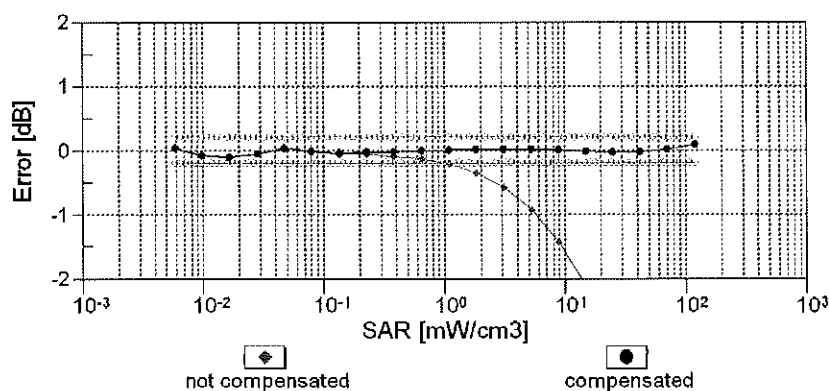
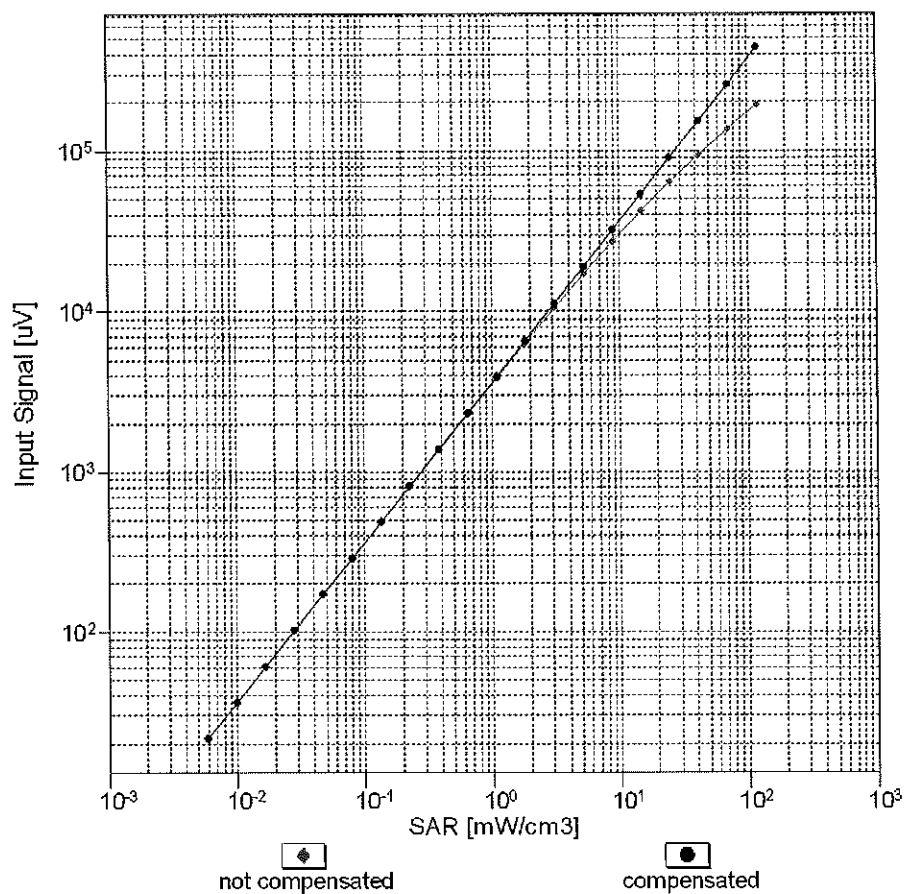
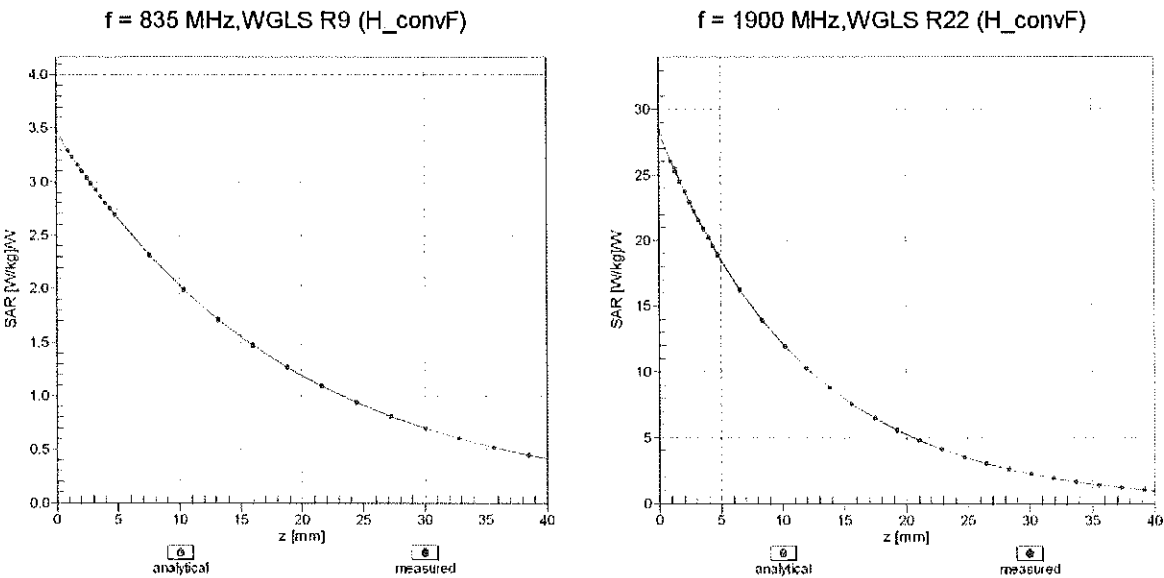


Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$)

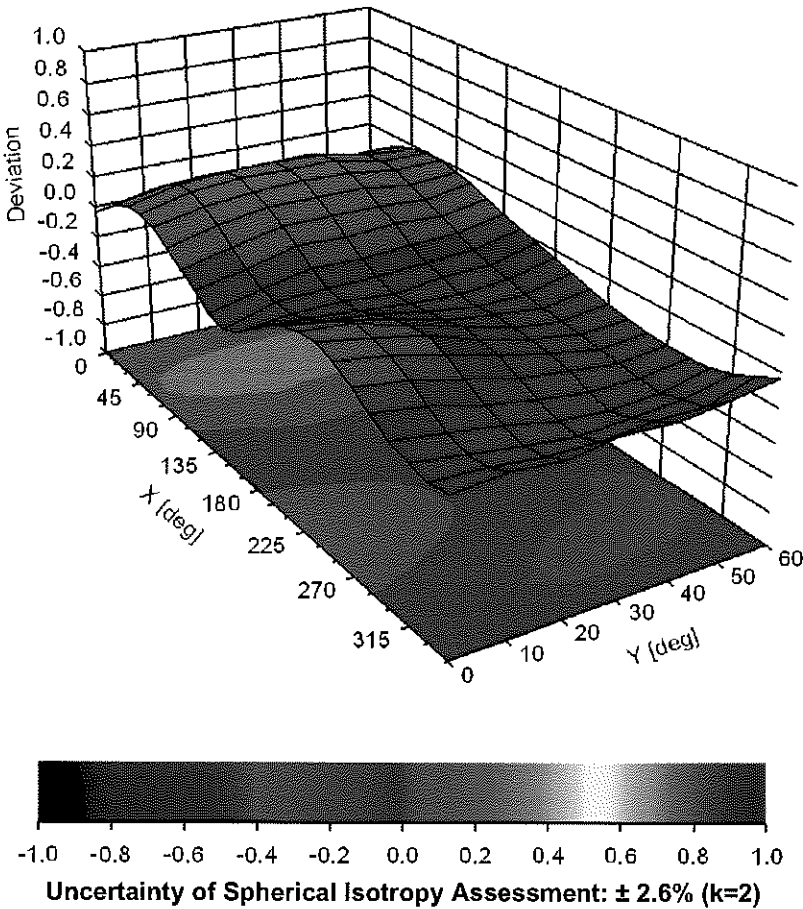


Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid
Error (ϕ, ϑ), f = 900 MHz



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^F (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %

10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %

10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
10260	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %

10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	iDEN 1:3	iDEN	10.51	± 9.6 %
10314	AAA	iDEN 1:6	iDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10417	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	WLAN	8.19	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	± 9.6 %
10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	± 9.6 %
10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %

10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	± 9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	± 9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	± 9.6 %
10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	± 9.6 %
10500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	± 9.6 %
10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	± 9.6 %
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	± 9.6 %
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	± 9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	± 9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	± 9.6 %
10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	WLAN	8.45	± 9.6 %

10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	± 9.6 %

10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	± 9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %

10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	9.09	± 9.6 %
10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)	WLAN	8.62	± 9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)	WLAN	8.28	± 9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10691	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)	WLAN	8.69	± 9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)	WLAN	8.66	± 9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)	WLAN	8.67	± 9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)	WLAN	8.24	± 9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10721	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)	WLAN	8.55	± 9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10724	AAA	IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)	WLAN	8.66	± 9.6 %

10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)	WLAN	8.65	± 9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)	WLAN	9.16	± 9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)	WLAN	9.04	± 9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)	WLAN	9.00	± 9.6 %
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)	WLAN	8.64	± 9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle)	WLAN	8.51	± 9.6 %
10767	AAA	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAA	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAA	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAA	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAA	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAA	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAA	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAA	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10776	AAA	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAA	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10780	AAA	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAA	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAA	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %

10783	AAA	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAA	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAA	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAA	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAA	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAA	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAA	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAA	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAA	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAA	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAA	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAA	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAA	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAA	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAA	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAA	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAA	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAA	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAA	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAA	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAA	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAA	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAA	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAA	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAA	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAA	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAA	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAA	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAA	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAA	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAA	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAA	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAA	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %

10825	AAA	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAA	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAA	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAA	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAA	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAA	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAA	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAA	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAA	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAA	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAA	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAA	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAA	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAA	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAA	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAA	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAA	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAA	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAA	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAA	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAA	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAA	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAA	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAA	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAA	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAA	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAA	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAA	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAA	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAA	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAA	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAA	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAA	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %

10871	AAA	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAA	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAA	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAA	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAA	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAA	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAA	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAA	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAA	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAA	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAA	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAA	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAA	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAA	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAA	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAA	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **PC Test**

Certificate No: **EX3-7552_Sep19/2**

CALIBRATION CERTIFICATE (Replacement of No: EX3-7552_Sep19)

Object **EX3DV4 - SN:7552**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v7**
Calibration procedure for dosimetric E-field probes

Calibration date: **September 19, 2019**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

BNV
 4130/2020

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

Calibrated by:	Name Michael Weber	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature
			Issued: March 31, 2020
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7552

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.53	0.55	0.61	± 10.1 %
DCP (mV) ^B	103.0	103.6	98.0	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	177.9	± 2.7 %	± 4.7 %
		Y	0.00	0.00	1.00		176.8		
		Z	0.00	0.00	1.00		183.4		
10352- AAA	Pulse Waveform (200Hz, 10%)	X	2.34	65.09	9.70	10.00	60.0	± 3.3 %	± 9.6 %
		Y	15.00	89.18	20.37		60.0		
		Z	15.00	88.10	20.22		60.0		
10353- AAA	Pulse Waveform (200Hz, 20%)	X	1.31	63.96	8.10	6.99	80.0	± 2.1 %	± 9.6 %
		Y	15.00	93.16	21.33		80.0		
		Z	15.00	89.24	19.48		80.0		
10354- AAA	Pulse Waveform (200Hz, 40%)	X	0.36	60.00	5.06	3.98	95.0	± 1.4 %	± 9.6 %
		Y	15.00	101.10	23.83		95.0		
		Z	15.00	90.10	18.23		95.0		
10355- AAA	Pulse Waveform (200Hz, 60%)	X	0.22	60.00	3.73	2.22	120.0	± 1.3 %	± 9.6 %
		Y	15.00	113.07	27.96		120.0		
		Z	15.00	87.80	15.60		120.0		
10387- AAA	QPSK Waveform, 1 MHz	X	0.40	60.00	3.93	0.00	150.0	± 3.6 %	± 9.6 %
		Y	0.78	63.31	10.06		150.0		
		Z	0.70	61.51	8.93		150.0		
10388- AAA	QPSK Waveform, 10 MHz	X	1.79	66.45	14.78	0.00	150.0	± 1.2 %	± 9.6 %
		Y	2.42	69.81	16.71		150.0		
		Z	2.23	68.00	15.52		150.0		
10396- AAA	64-QAM Waveform, 100 kHz	X	1.95	65.68	16.82	3.01	150.0	± 1.3 %	± 9.6 %
		Y	3.21	72.66	19.67		150.0		
		Z	3.05	70.05	18.58		150.0		
10399- AAA	64-QAM Waveform, 40 MHz	X	3.20	66.47	15.32	0.00	150.0	± 2.2 %	± 9.6 %
		Y	3.48	67.32	15.96		150.0		
		Z	3.54	67.20	15.78		150.0		
10414- AAA	WLAN CCDF, 64-QAM, 40MHz	X	4.44	65.50	15.34	0.00	150.0	± 4.0 %	± 9.6 %
		Y	4.77	65.54	15.53		150.0		
		Z	4.98	65.86	15.70		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7552

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms.V^{-2}$	T2 $ms.V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	24.9	184.30	34.90	2.50	0.00	5.02	0.00	0.18	1.01
Y	44.0	323.79	34.79	12.49	0.07	5.10	1.49	0.19	1.01
Z	50.7	391.76	37.68	13.38	0.51	5.10	0.00	0.61	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-31.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7552

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	9.96	9.96	9.96	0.46	0.80	± 12.0 %
835	41.5	0.90	9.60	9.60	9.60	0.39	0.93	± 12.0 %
1750	40.1	1.37	8.30	8.30	8.30	0.34	0.86	± 12.0 %
1900	40.0	1.40	8.01	8.01	8.01	0.33	0.86	± 12.0 %
2300	39.5	1.67	7.72	7.72	7.72	0.23	0.88	± 12.0 %
2450	39.2	1.80	7.31	7.31	7.31	0.32	0.93	± 12.0 %
2600	39.0	1.96	7.21	7.21	7.21	0.37	0.88	± 12.0 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7552

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	10.15	10.15	10.15	0.39	0.95	± 12.0 %
835	55.2	0.97	9.94	9.94	9.94	0.39	0.94	± 12.0 %
1750	53.4	1.49	8.03	8.03	8.03	0.44	0.86	± 12.0 %
1900	53.3	1.52	7.58	7.58	7.58	0.39	0.86	± 12.0 %
2300	52.9	1.81	7.52	7.52	7.52	0.39	0.88	± 12.0 %
2450	52.7	1.95	7.47	7.47	7.47	0.36	0.93	± 12.0 %
2600	52.5	2.16	7.19	7.19	7.19	0.25	0.99	± 12.0 %

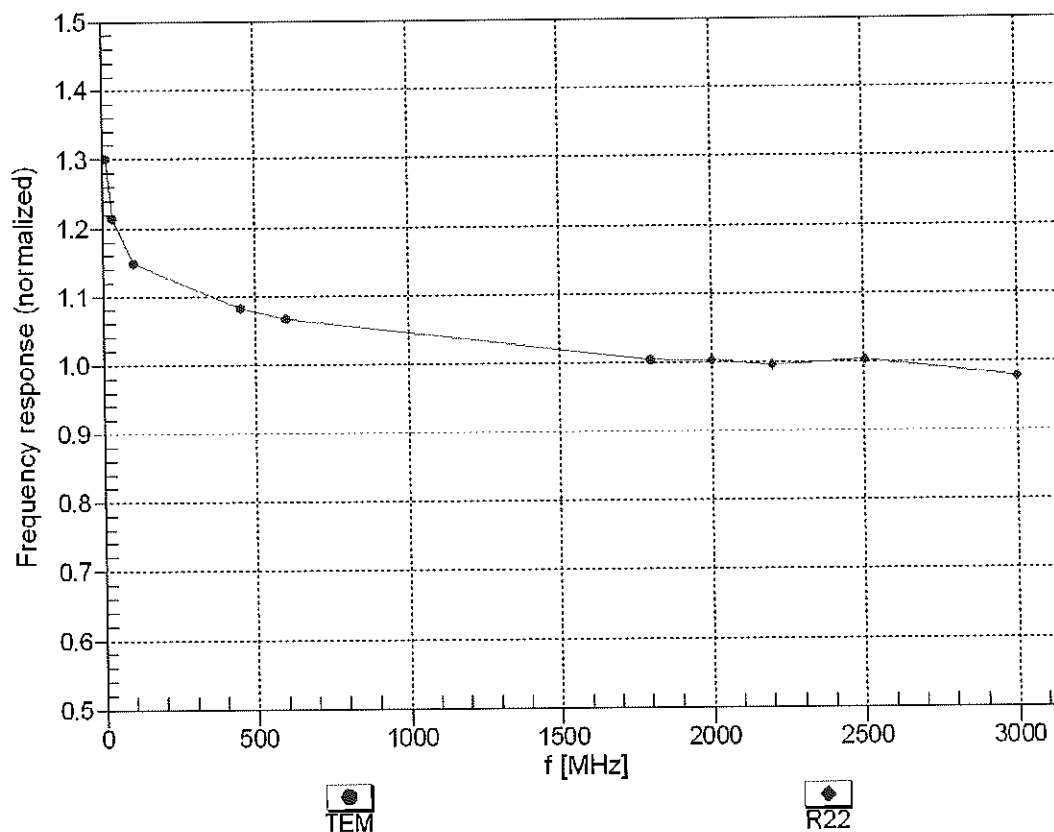
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field

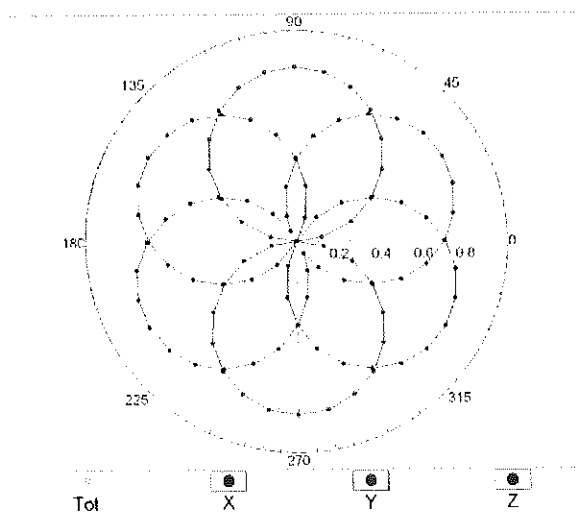
(TEM-Cell:ifi110 EXX, Waveguide: R22)



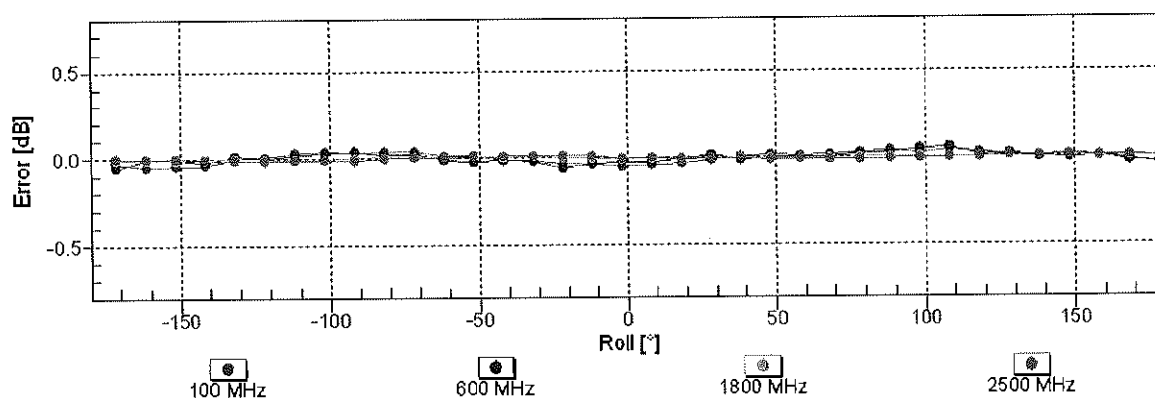
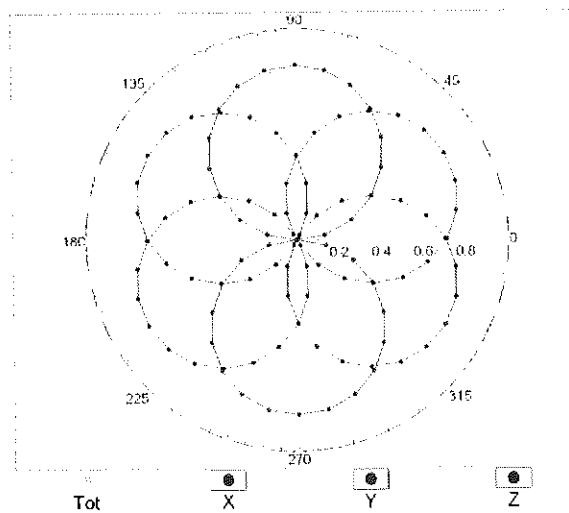
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Receiving Pattern (ϕ), $\theta = 0^\circ$

$f=600$ MHz, TEM

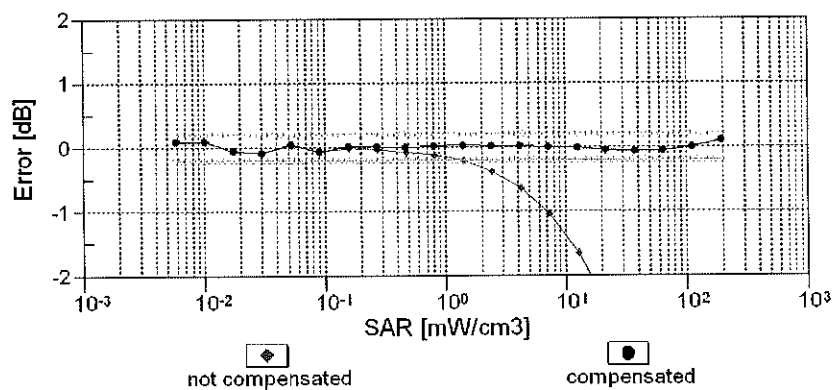
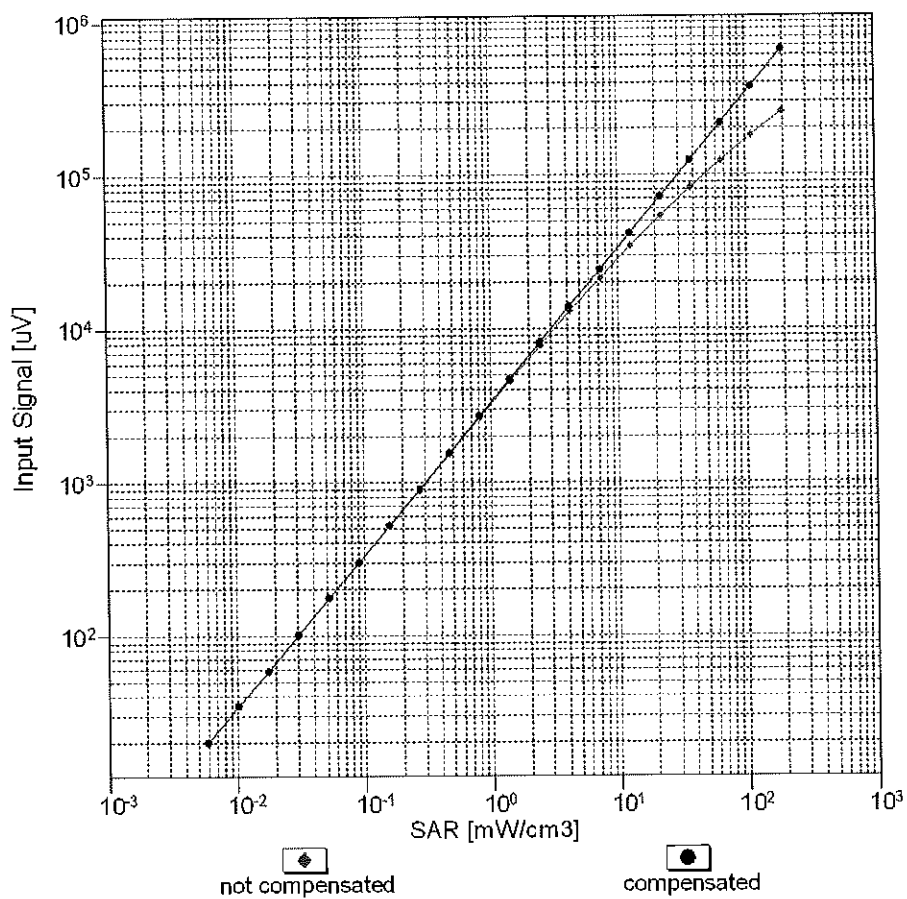


$f=1800$ MHz, R22



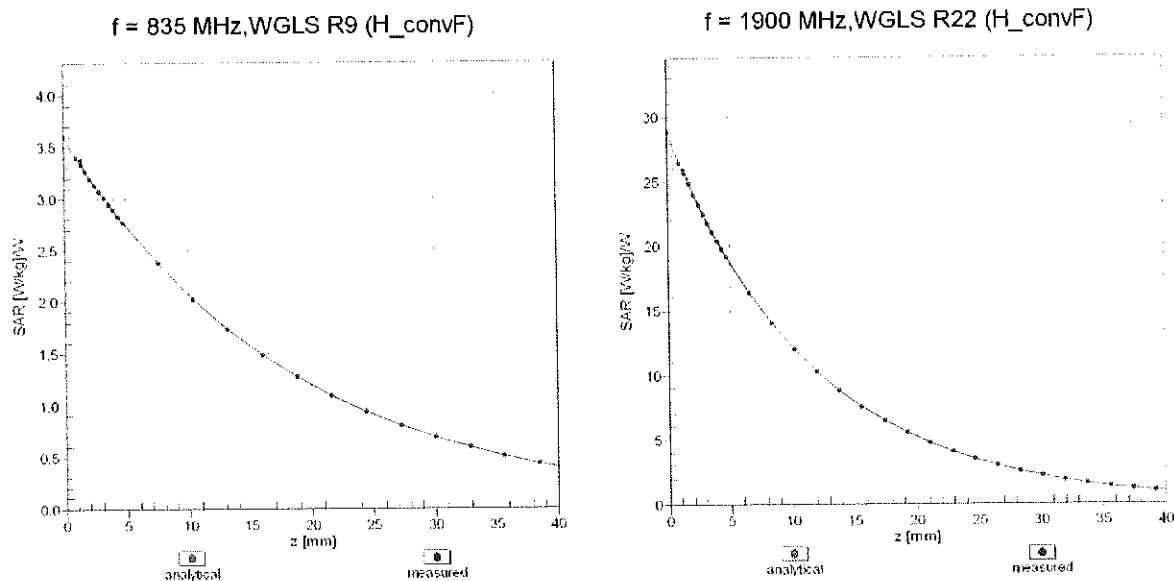
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$)



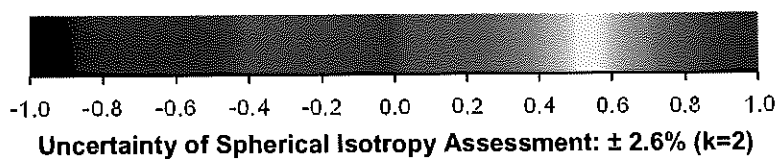
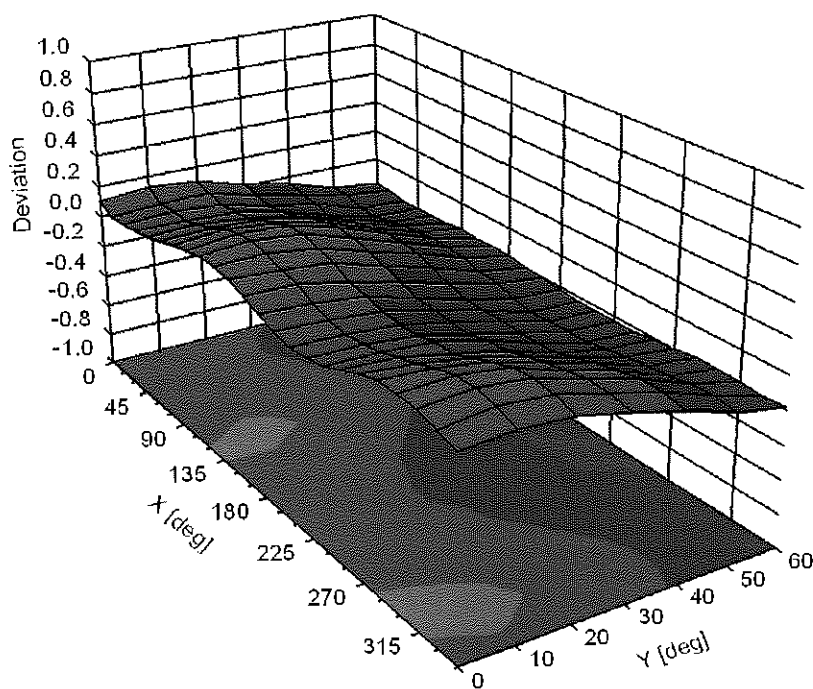
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %

10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %

10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
10260	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %

10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)	WiMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3)	WiMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	IDEN 1:3	IDEN	10.51	± 9.6 %
10314	AAA	IDEN 1:6	IDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %

10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %
10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %

10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %

10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %

10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	± 9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	± 9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
10721	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	± 9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10724	AAA	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	± 9.6 %
10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	8.65	± 9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %

10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	± 9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	± 9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	± 9.6 %
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	± 9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAB	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAB	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAB	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %

10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAC	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAC	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAC	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAC	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAC	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAC	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAC	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %

10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAA	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAA	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAA	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAA	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAA	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAA	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAA	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAA	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAA	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAA	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAA	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAA	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAA	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAA	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAA	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAA	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAA	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAA	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAA	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAA	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAA	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAA	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10922	AAA	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAA	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAA	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAA	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAA	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAA	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAA	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAA	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAA	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAA	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAA	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAA	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAA	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAA	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAA	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAA	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAA	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAA	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAA	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAA	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAA	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAA	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAA	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAA	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAA	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %

10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAA	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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Accreditation No.: **SCS 0108**

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 Multilateral Agreement for the recognition of calibration certificates

Client **PC Test**

Certificate No: **EX3-7409_Jun20**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7409**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v7**
 Calibration procedure for dosimetric E-field probes

Calibration date: **June 23, 2020**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	01-Apr-20 (No. 217-03100/03101)	Apr-21
Power sensor NRP-Z91	SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
Power sensor NRP-Z91	SN: 103245	01-Apr-20 (No. 217-03101)	Apr-21
Reference 20 dB Attenuator	SN: CC2552 (20x)	31-Mar-20 (No. 217-03106)	Apr-21
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

Calibrated by:	Name Leif Klysner	Function Laboratory Technician	Signature
Approved by:	Katja Pokovic	Technical Manager	
			Issued: June 23, 2020
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			



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 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7409

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V/m})^2$) ^A	0.38	0.33	0.38	± 10.1 %
DCP (mV) ^B	95.5	100.0	95.0	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	164.4	± 3.3 %	± 4.7 %
		Y	0.00	0.00	1.00		150.4		
		Z	0.00	0.00	1.00		159.0		
10352-AAA	Pulse Waveform (200Hz, 10%)	X	1.67	61.67	7.23	10.00	60.0	± 2.7 %	± 9.6 %
		Y	2.16	64.58	9.60		60.0		
		Z	2.15	64.18	8.94		60.0		
10353-AAA	Pulse Waveform (200Hz, 20%)	X	0.80	60.00	5.37	6.99	80.0	± 2.1 %	± 9.6 %
		Y	1.43	64.93	8.77		80.0		
		Z	0.90	61.03	6.61		80.0		
10354-AAA	Pulse Waveform (200Hz, 40%)	X	24.00	76.00	9.00	3.98	95.0	± 1.4 %	± 9.6 %
		Y	1.35	68.83	9.52		95.0		
		Z	0.43	60.57	5.82		95.0		
10355-AAA	Pulse Waveform (200Hz, 60%)	X	0.22	60.00	4.29	2.22	120.0	± 0.9 %	± 9.6 %
		Y	20.00	92.55	16.12		120.0		
		Z	20.00	88.05	14.28		120.0		
10387-AAA	QPSK Waveform, 1 MHz	X	1.76	75.04	18.44	1.00	150.0	± 2.9 %	± 9.6 %
		Y	1.57	66.93	14.91		150.0		
		Z	1.78	68.16	15.92		150.0		
10388-AAA	QPSK Waveform, 10 MHz	X	1.96	69.24	16.69	0.00	150.0	± 1.1 %	± 9.6 %
		Y	2.07	67.30	15.48		150.0		
		Z	2.31	68.85	16.40		150.0		
10396-AAA	64-QAM Waveform, 100 kHz	X	1.77	64.95	16.31	3.01	150.0	± 1.1 %	± 9.6 %
		Y	2.08	66.49	16.95		150.0		
		Z	1.99	65.39	16.69		150.0		
10399-AAA	64-QAM Waveform, 40 MHz	X	3.27	67.44	16.13	0.00	150.0	± 0.9 %	± 9.6 %
		Y	3.29	66.23	15.37		150.0		
		Z	3.46	66.99	15.86		150.0		
10414-AAA	WLAN CCDF, 64-QAM, 40MHz	X	4.37	66.33	15.92	0.00	150.0	± 1.4 %	± 9.6 %
		Y	4.56	65.17	15.29		150.0		
		Z	4.74	65.59	15.59		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7409

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms.V^{-2}$	T2 $ms.V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	16.7	122.16	34.28	3.57	0.00	4.90	0.56	0.00	1.00
Y	31.3	231.62	35.05	2.34	0.00	4.96	1.01	0.00	1.00
Z	35.5	263.43	35.26	4.37	0.00	4.93	0.42	0.11	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	41
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an *Area Scan* job.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7409

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.00	10.00	10.00	0.47	0.93	± 12.0 %
835	41.5	0.90	9.56	9.56	9.56	0.53	0.80	± 12.0 %
1750	40.1	1.37	8.38	8.38	8.38	0.30	0.86	± 12.0 %
1900	40.0	1.40	8.08	8.08	8.08	0.37	0.86	± 12.0 %
2300	39.5	1.67	7.55	7.55	7.55	0.34	0.90	± 12.0 %
2450	39.2	1.80	7.27	7.27	7.27	0.32	0.92	± 12.0 %
2600	39.0	1.96	7.03	7.03	7.03	0.38	0.90	± 12.0 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7409

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	9.98	9.98	9.98	0.46	0.80	± 12.0 %
835	55.2	0.97	9.76	9.76	9.76	0.49	0.80	± 12.0 %
1750	53.4	1.49	7.95	7.95	7.95	0.40	0.86	± 12.0 %
1900	53.3	1.52	7.69	7.69	7.69	0.39	0.86	± 12.0 %
2300	52.9	1.81	7.50	7.50	7.50	0.38	0.90	± 12.0 %
2450	52.7	1.95	7.24	7.24	7.24	0.39	0.90	± 12.0 %
2600	52.5	2.16	7.12	7.12	7.12	0.31	0.94	± 12.0 %

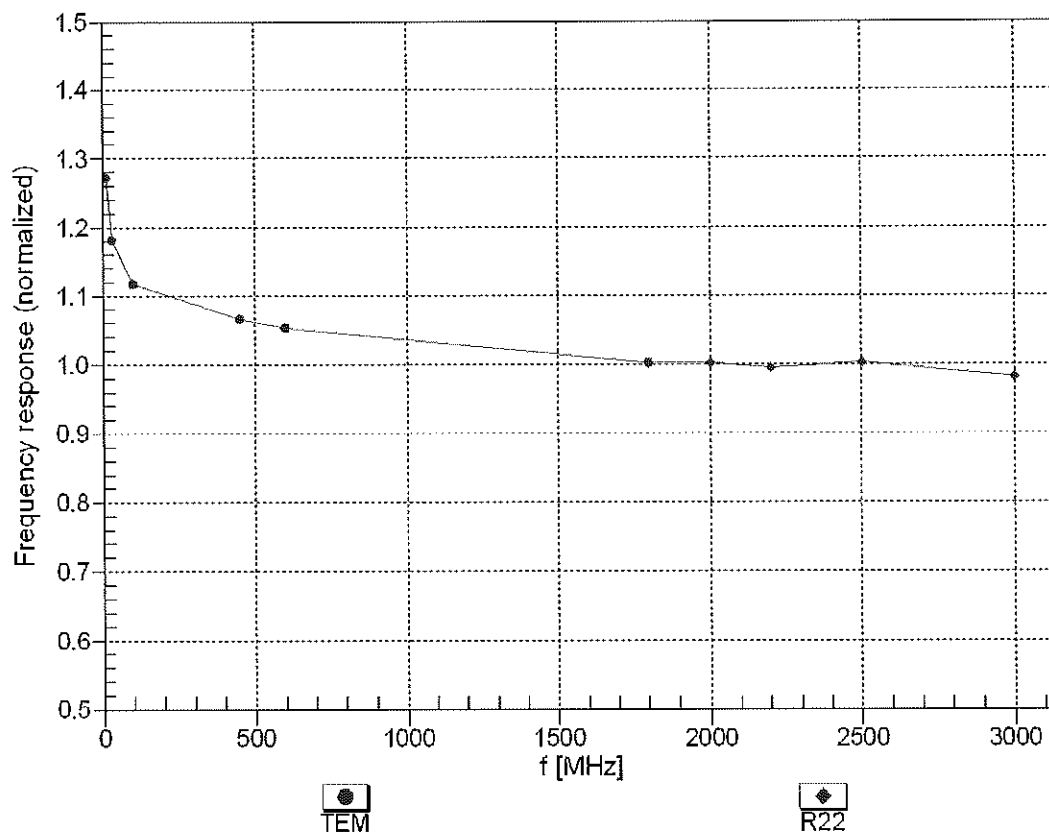
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field

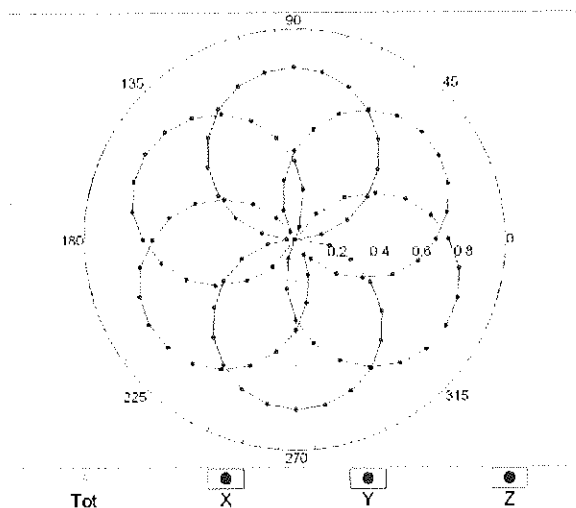
(TEM-Cell:ifi110 EXX, Waveguide: R22)



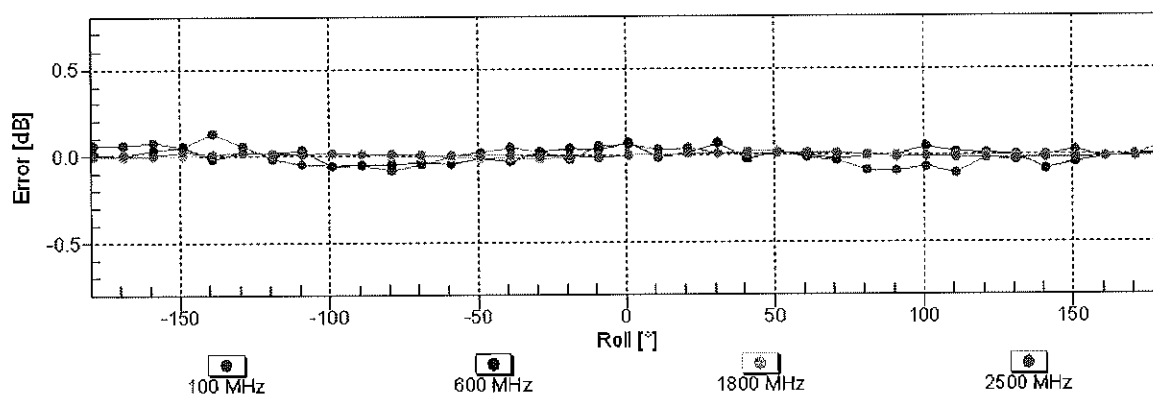
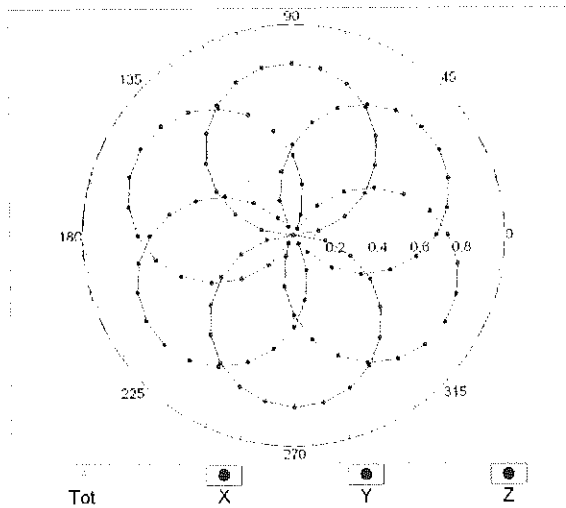
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Receiving Pattern (ϕ), $\theta = 0^\circ$

f=600 MHz,TEM

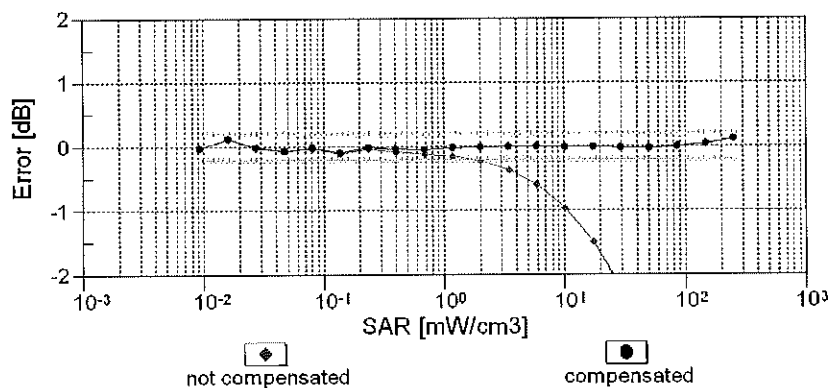
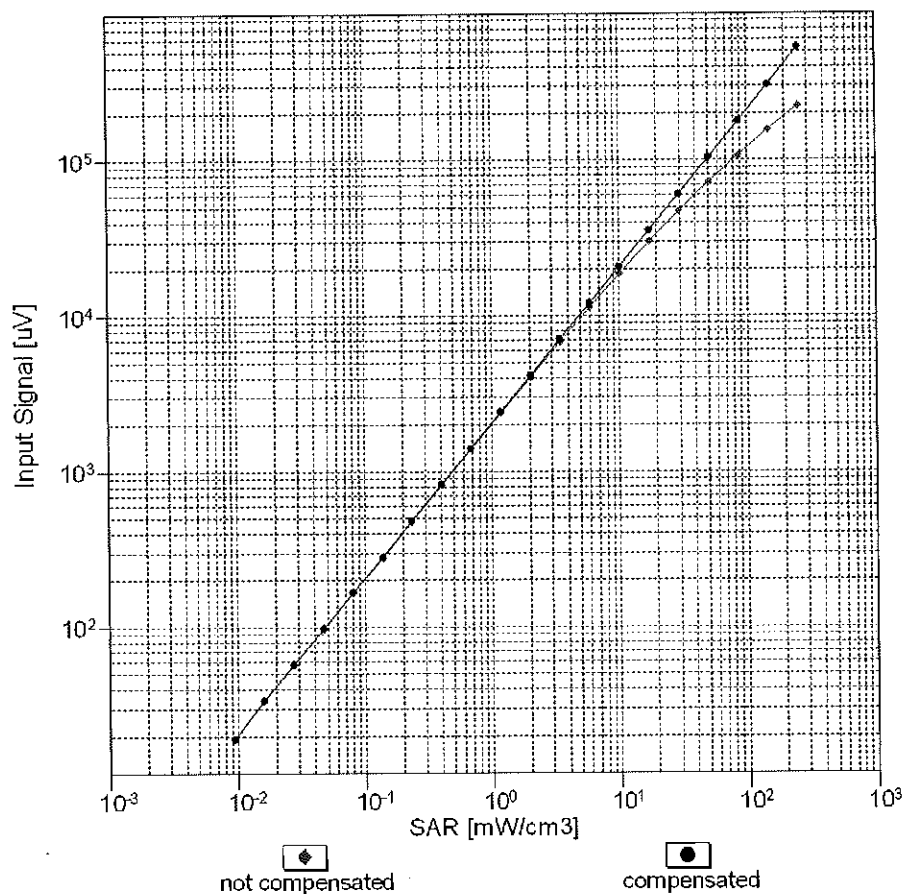


f=1800 MHz,R22



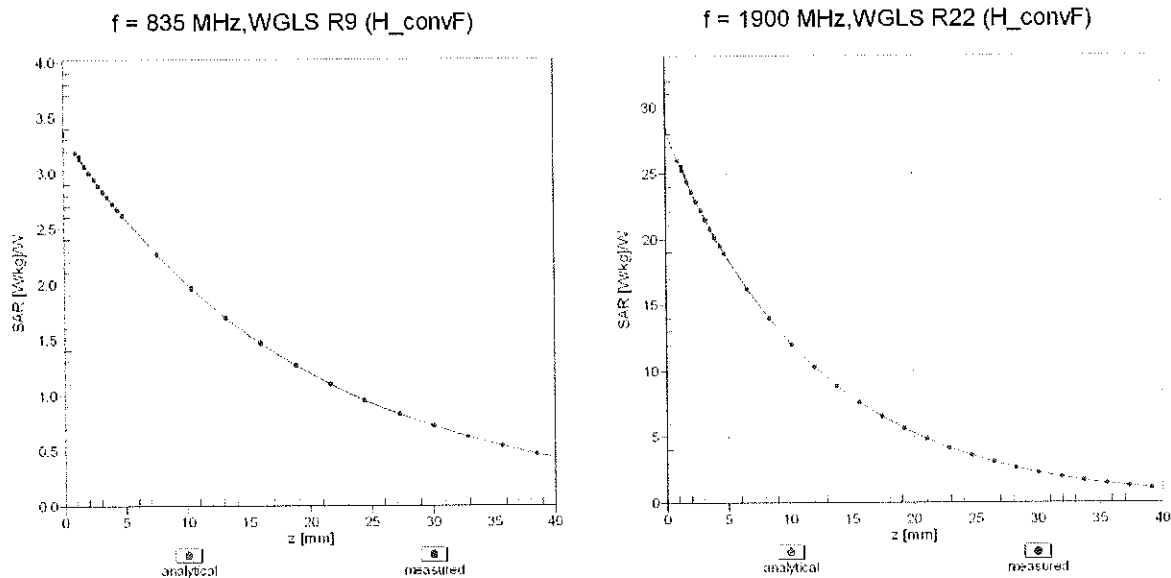
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$)



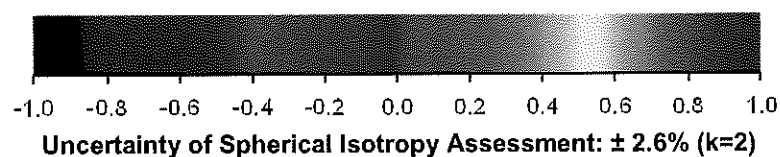
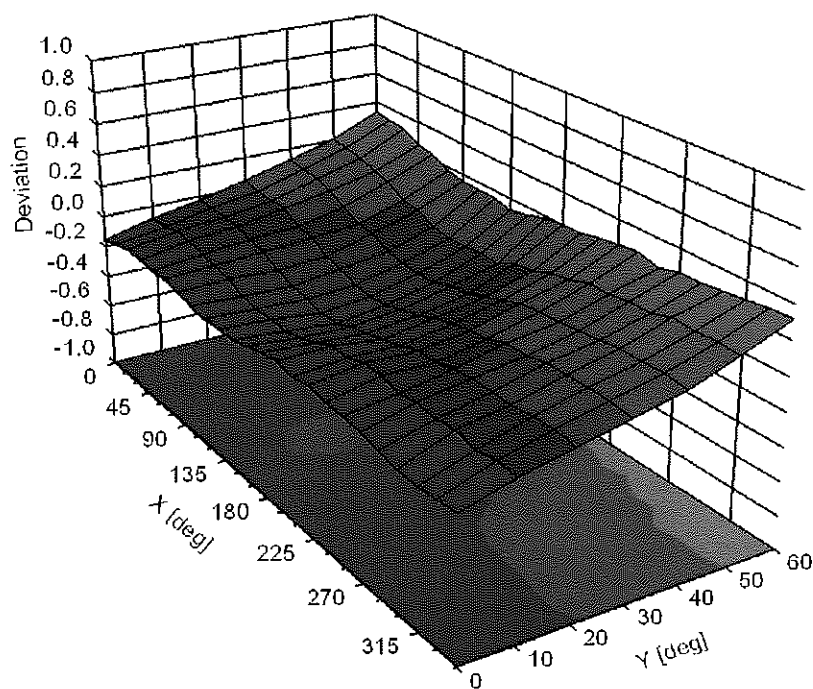
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %

10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6 %
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6 %
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6 %
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6 %
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6 %
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6 %
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6 %

10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
10260	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %

10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)	WiMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3)	WiMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	iDEN 1:3	iDEN	10.51	± 9.6 %
10314	AAA	iDEN 1:6	iDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %

10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %
10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %

10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %

10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %

10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	± 9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	± 9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
10721	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	± 9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10724	AAA	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	± 9.6 %
10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	8.65	± 9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %

10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	± 9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	± 9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	± 9.6 %
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	± 9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAB	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAB	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAB	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %

10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAC	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAC	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAC	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAC	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAC	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAC	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAC	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %

10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAA	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAA	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAA	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAA	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAA	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAA	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAA	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAA	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAA	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAA	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAA	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAA	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAA	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAA	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAA	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAA	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAA	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAA	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAA	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAA	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAA	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAA	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10922	AAA	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAA	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAA	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAA	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAA	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAA	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAA	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAA	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAA	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAA	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAA	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAA	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAA	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAA	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAA	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAA	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAA	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAA	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAA	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAA	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAA	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAA	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAA	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAA	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAA	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %

10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAA	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

APPENDIX G POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

G.1 Power Verification Procedure

The power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

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G.2 WIFI Verification Summary

Table G-1
Power Measurement Verification WIFI – Ant 1

Mechanism(s)	Mode/Band	Conducted Power (dBm)	
1st		Un-triggered (Max)	Mechanism #1 (Reduced)
Held-to-Ear	802.11b	19.90	14.84

*Note: MIMO WIFI modes were not evaluated due to equipment limitations.

Table G-2
Power Measurement Verification WIFI with NR Active – Ant 1

Mechanism(s)	Mode/Band	Conducted Power (dBm)		
#1		Un-triggered (Max)	Mechanism #1 NR Active (Reduced)	Mechanism #2 RCV + NR Active (Reduced)
NR Active	802.11b	20.43	15.12	15.12

*Note: MIMO WIFI modes were not evaluated due to equipment limitations.

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Table G-3
Power Measurement Verification WIFI – Ant 2

Mechanism(s)	Mode/Band	Conducted Power (dBm)	
1st		Un-triggered (Max)	Mechanism #1 (Reduced)
Held-to-Ear		19.86	15.21

*Note: MIMO WIFI modes were not evaluated due to equipment limitations.

Table G-4
Power Measurement Verification WIFI with NR Active – Ant 2

Mechanism(s)	Mode/Band	Conducted Power (dBm)		
#1		Un-triggered (Max)	Mechanism #1 NR Active (Reduced)	Mechanism #2 RCV + NR Active (Reduced)
NR Active		20.39	15.23	15.23

*Note: MIMO WIFI modes were not evaluated due to equipment limitations.

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APPENDIX H SIMULTANEOUS NUMERICAL CALCULATIONS

H.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

LTE B25 SAR additionally represents LTE B2 Ant 2 since their transmission frequency ranges are overlapped and they share the same transmission path and signal characteristics.

NR Band n41 PC2 standalone SAR data additionally represents n41 PC3 in EN-DC since they share the same transmission path and signal characteristics.

For inter-band ULCA, LTE Band 12, LTE B66/2 Ant 3 SAR at maximum power level were used for simultaneous transmission analysis since they are more conservative.

H.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is ≤ 1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR (“-”).

(*) For test positions that were not required to be evaluated for WLAN SAR per FCC KDB publication 248227, the worst case WLAN SAR result for the applicable exposure conditions was used for simultaneous transmission analysis.

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H.3 Head SAR Simultaneous Transmission Analysis

Table H-1
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2	1+3	1+2+3	
Head SAR	CDMA/EVDO BC10 (§90S)	0.147	0.355	0.346	0.502	0.493	0.848	
	CDMA/EVDO BC0 (§22H)	0.125	0.355	0.346	0.480	0.471	0.826	
	PCS CDMA/EVDO	0.091	0.355	0.346	0.446	0.437	0.792	
	GSM/GPRS 850	0.159	0.355	0.346	0.514	0.505	0.860	
	GSM/GPRS 1900	0.041	0.355	0.346	0.396	0.387	0.742	
	UMTS 850	0.119	0.355	0.346	0.474	0.465	0.820	
	UMTS 1750	0.140	0.355	0.346	0.495	0.486	0.841	
	UMTS 1900	0.079	0.355	0.346	0.434	0.425	0.780	
	LTE Band 71	0.118	0.355	0.346	0.473	0.464	0.819	
	LTE Band 12	0.141	0.355	0.346	0.496	0.487	0.842	
	LTE Band 13	0.100	0.355	0.346	0.455	0.446	0.801	
	LTE Band 26 (Cell)	0.136	0.355	0.346	0.491	0.482	0.837	
	LTE Band 66 (AWS)	0.175	0.355	0.346	0.530	0.521	0.876	
	LTE Band 25 (PCS)	0.098	0.355	0.346	0.453	0.444	0.799	
	LTE Band 41	0.069	0.355	0.346	0.424	0.415	0.770	
	NR Band n71	0.147	0.355	0.346	0.502	0.493	0.848	
	NR Band n66 Ant 2	0.178	0.355	0.346	0.533	0.524	0.879	
	NR Band n66 Ant 3	0.254	0.355	0.346	0.609	0.600	0.955	
	NR Band n25 Ant 2	0.119	0.355	0.346	0.474	0.465	0.820	
	NR Band n25 Ant 3	0.350	0.355	0.346	0.705	0.696	1.051	
	NR Band n41	0.122	0.355	0.346	0.477	0.468	0.823	
Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.175	0.147	0.355	0.346	0.677	0.668	1.023
	LTE Band 2 (PCS)	0.098	0.147	0.355	0.346	0.600	0.591	0.946
Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Head SAR	LTE Band 12	0.141	0.254	0.355	0.346	0.750	0.741	1.096
	LTE Band 2 (PCS)	0.098	0.254	0.355	0.346	0.707	0.698	1.053

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Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Head SAR	LTE Band 12	0.141	0.350	0.355	0.346	0.846	0.837	1.192
	LTE Band 66 (AWS)	0.175	0.350	0.355	0.346	0.880	0.871	1.226
Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.175	0.122	0.355	0.346	0.297	0.530	0.998
	LTE Band 2 (PCS)	0.098	0.122	0.355	0.346	0.575	0.566	0.921
Configuration	Mode	4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Head SAR	LTE Band 66 (AWS) Ant 3	0.180	0.141	0.355	0.346	0.676	0.667	1.022
	LTE Band 2 (PCS) Ant 3	0.169	0.141	0.355	0.346	0.665	0.656	1.011

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Table H-2
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2 and Bluetooth (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	CDMA/EVDO BC10 (\$90S)	0.147	0.346	0.057	0.550
	CDMA/EVDO BC0 (\$22H)	0.125	0.346	0.057	0.528
	PCS CDMA/EVDO	0.091	0.346	0.057	0.494
	GSM/GPRS 850	0.159	0.346	0.057	0.562
	GSM/GPRS 1900	0.041	0.346	0.057	0.444
	UMTS 850	0.119	0.346	0.057	0.522
	UMTS 1750	0.140	0.346	0.057	0.543
	UMTS 1900	0.079	0.346	0.057	0.482
	LTE Band 71	0.118	0.346	0.057	0.521
	LTE Band 12	0.141	0.346	0.057	0.544
	LTE Band 13	0.100	0.346	0.057	0.503
	LTE Band 26 (Cell)	0.136	0.346	0.057	0.539
	LTE Band 66 (AWS)	0.175	0.346	0.057	0.578
	LTE Band 25 (PCS)	0.098	0.346	0.057	0.501
	LTE Band 41	0.069	0.346	0.057	0.472
	NR Band n71	0.147	0.346	0.057	0.550
	NR Band n66 Ant 2	0.178	0.346	0.057	0.581
	NR Band n66 Ant 3	0.254	0.346	0.057	0.657
	NR Band n25 Ant 2	0.119	0.346	0.057	0.522
	NR Band n25 Ant 3	0.350	0.346	0.057	0.753
	NR Band n41	0.122	0.346	0.057	0.525

Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.175	0.147	0.346	0.057	0.725
	LTE Band 2 (PCS)	0.098	0.147	0.346	0.057	0.648

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Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 12	0.141	0.254	0.346	0.057	0.798
	LTE Band 2 (PCS)	0.098	0.254	0.346	0.057	0.755
Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 12	0.141	0.350	0.346	0.057	0.894
	LTE Band 66 (AWS)	0.175	0.350	0.346	0.057	0.928
Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.175	0.122	0.346	0.057	0.700
	LTE Band 2 (PCS)	0.098	0.122	0.346	0.057	0.623
Configuration	Mode	4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS) Ant 3	0.180	0.141	0.346	0.057	0.724
	LTE Band 2 (PCS) Ant 3	0.169	0.141	0.346	0.057	0.713

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Table H-3
Simultaneous Transmission Scenario with 2.4 GHz Ant 1 and 5 GHz Ant 2 (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	CDMA/EVDO BC10 (§90S)	0.147	0.355	0.458	0.960
	CDMA/EVDO BC0 (§22H)	0.125	0.355	0.458	0.938
	PCS CDMA/EVDO	0.091	0.355	0.458	0.904
	GSM/GPRS 850	0.159	0.355	0.458	0.972
	GSM/GPRS 1900	0.041	0.355	0.458	0.854
	UMTS 850	0.119	0.355	0.458	0.932
	UMTS 1750	0.140	0.355	0.458	0.953
	UMTS 1900	0.079	0.355	0.458	0.892
	LTE Band 71	0.118	0.355	0.458	0.931
	LTE Band 12	0.141	0.355	0.458	0.954
	LTE Band 13	0.100	0.355	0.458	0.913
	LTE Band 26 (Cell)	0.136	0.355	0.458	0.949
	LTE Band 66 (AWS)	0.175	0.355	0.458	0.988
	LTE Band 25 (PCS)	0.098	0.355	0.458	0.911
	LTE Band 41	0.069	0.355	0.458	0.882
	NR Band n71	0.147	0.355	0.458	0.960
	NR Band n66 Ant 2	0.178	0.355	0.458	0.991
	NR Band n66 Ant 3	0.254	0.355	0.458	1.067
	NR Band n25 Ant 2	0.119	0.355	0.458	0.932
	NR Band n25 Ant 3	0.350	0.355	0.458	1.163
	NR Band n41	0.122	0.355	0.458	0.935

Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.175	0.147	0.355	0.458	1.135
	LTE Band 2 (PCS)	0.098	0.147	0.355	0.458	1.058

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Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 12	0.141	0.254	0.355	0.458	1.208
	LTE Band 2 (PCS)	0.098	0.254	0.355	0.458	1.165
Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 12	0.141	0.350	0.355	0.458	1.304
	LTE Band 66 (AWS)	0.175	0.350	0.355	0.458	1.338
Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.175	0.122	0.355	0.458	1.110
	LTE Band 2 (PCS)	0.098	0.122	0.355	0.458	1.033
Configuration	Mode	4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS) Ant 3	0.180	0.141	0.355	0.458	1.134
	LTE Band 2 (PCS) Ant 3	0.169	0.141	0.355	0.458	1.123

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Table H-4
Simultaneous Transmission Scenario with 5 GHz WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Head SAR	CDMA/EVDO BC10 (§90S)	0.147	0.268	0.458	0.415	0.605	0.873
	CDMA/EVDO BC0 (§22H)	0.125	0.268	0.458	0.393	0.583	0.851
	PCS CDMA/EVDO	0.091	0.268	0.458	0.359	0.549	0.817
	GSM/GPRS 850	0.159	0.268	0.458	0.427	0.617	0.885
	GSM/GPRS 1900	0.041	0.268	0.458	0.309	0.499	0.767
	UMTS 850	0.119	0.268	0.458	0.387	0.577	0.845
	UMTS 1750	0.140	0.268	0.458	0.408	0.598	0.866
	UMTS 1900	0.079	0.268	0.458	0.347	0.537	0.805
	LTE Band 71	0.118	0.268	0.458	0.386	0.576	0.844
	LTE Band 12	0.141	0.268	0.458	0.409	0.599	0.867
	LTE Band 13	0.100	0.268	0.458	0.368	0.558	0.826
	LTE Band 26 (Cell)	0.136	0.268	0.458	0.404	0.594	0.862
	LTE Band 66 (AWS)	0.175	0.268	0.458	0.443	0.633	0.901
	LTE Band 25 (PCS)	0.098	0.268	0.458	0.366	0.556	0.824
	LTE Band 41	0.069	0.268	0.458	0.337	0.527	0.795
	NR Band n71	0.147	0.268	0.458	0.415	0.605	0.873
	NR Band n66 Ant 2	0.178	0.268	0.458	0.446	0.636	0.904
	NR Band n66 Ant 3	0.254	0.268	0.458	0.522	0.712	0.980
	NR Band n25 Ant 2	0.119	0.268	0.458	0.387	0.577	0.845
	NR Band n25 Ant 3	0.350	0.268	0.458	0.618	0.808	1.076
	NR Band n41	0.122	0.268	0.458	0.390	0.580	0.848

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Table H-5
Simultaneous Transmission Scenario with Bluetooth (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	CDMA/EVDO BC10 (§90S)	0.147	0.057	0.204
	CDMA/EVDO BC0 (§22H)	0.125	0.057	0.182
	PCS CDMA/EVDO	0.091	0.057	0.148
	GSM/GPRS 850	0.159	0.057	0.216
	GSM/GPRS 1900	0.041	0.057	0.098
	UMTS 850	0.119	0.057	0.176
	UMTS 1750	0.140	0.057	0.197
	UMTS 1900	0.079	0.057	0.136
	LTE Band 71	0.118	0.057	0.175
	LTE Band 12	0.141	0.057	0.198
	LTE Band 13	0.100	0.057	0.157
	LTE Band 26 (Cell)	0.136	0.057	0.193
	LTE Band 66 (AWS)	0.175	0.057	0.232
	LTE Band 25 (PCS)	0.098	0.057	0.155
	LTE Band 41	0.069	0.057	0.126
	NR Band n71	0.147	0.057	0.204
	NR Band n66 Ant 2	0.178	0.057	0.235
	NR Band n66 Ant 3	0.254	0.057	0.311
	NR Band n25 Ant 2	0.119	0.057	0.176
	NR Band n25 Ant 3	0.350	0.057	0.407
	NR Band n41	0.122	0.057	0.179

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Table H-6
Simultaneous Transmission Scenario with 5 GHz WLAN and Bluetooth (Held to Ear)

Configuration	Mode			2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)		
				1	2	3	4	1+2+4	1+3+4	1+2+3+4
Head SAR	CDMA/EVDO BC10 (§90S)			0.147	0.268	0.458	0.057	0.472	0.662	0.930
	CDMA/EVDO BC0 (§22H)			0.125	0.268	0.458	0.057	0.450	0.640	0.908
	PCS CDMA/EVDO			0.091	0.268	0.458	0.057	0.416	0.606	0.874
	GSM/GPRS 850			0.159	0.268	0.458	0.057	0.484	0.674	0.942
	GSM/GPRS 1900			0.041	0.268	0.458	0.057	0.366	0.556	0.824
	UMTS 850			0.119	0.268	0.458	0.057	0.444	0.634	0.902
	UMTS 1750			0.140	0.268	0.458	0.057	0.465	0.655	0.923
	UMTS 1900			0.079	0.268	0.458	0.057	0.404	0.594	0.862
	LTE Band 71			0.118	0.268	0.458	0.057	0.443	0.633	0.901
	LTE Band 12			0.141	0.268	0.458	0.057	0.466	0.656	0.924
	LTE Band 13			0.100	0.268	0.458	0.057	0.425	0.615	0.883
	LTE Band 26 (Cell)			0.136	0.268	0.458	0.057	0.461	0.651	0.919
	LTE Band 66 (AWS)			0.175	0.268	0.458	0.057	0.500	0.690	0.958
	LTE Band 25 (PCS)			0.098	0.268	0.458	0.057	0.423	0.613	0.881
	LTE Band 41			0.069	0.268	0.458	0.057	0.394	0.584	0.852
	NR Band n71			0.147	0.268	0.458	0.057	0.472	0.662	0.930
	NR Band n66 Ant 2			0.178	0.268	0.458	0.057	0.503	0.693	0.961
	NR Band n66 Ant 3			0.254	0.268	0.458	0.057	0.579	0.769	1.037
	NR Band n25 Ant 2			0.119	0.268	0.458	0.057	0.444	0.634	0.902
	NR Band n25 Ant 3			0.350	0.268	0.458	0.057	0.675	0.865	1.133
	NR Band n41			0.122	0.268	0.458	0.057	0.447	0.637	0.905

Configuration	Mode		Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)						
			1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5	1+2+4+5	1+2+3+4+5
Head SAR	LTE Band 66 (AWS)		0.175	0.147	0.268	0.458	0.057	0.590	0.780	0.379	1.048	0.647	0.837	1.105
	LTE Band 2 (PCS)		0.098	0.147	0.268	0.458	0.057	0.513	0.703	0.302	0.971	0.570	0.760	1.028

Configuration	Mode		Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)						
			1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5	1+2+4+5	1+2+3+4+5
Head SAR	LTE Band 12		0.141	0.254	0.268	0.458	0.057	0.663	0.853	0.452	1.121	0.720	0.910	1.178
	LTE Band 2 (PCS)		0.098	0.254	0.268	0.458	0.057	0.620	0.810	0.409	1.078	0.677	0.867	1.135

Configuration	Mode		Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)						
			1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5	1+2+4+5	1+2+3+4+5
Head SAR	LTE Band 12		0.141	0.350	0.268	0.458	0.057	0.759	0.949	0.548	1.217	0.816	1.006	1.274
	LTE Band 66 (AWS)		0.175	0.350	0.268	0.458	0.057	0.793	0.983	0.582	1.251	0.850	1.040	1.308

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Configuration	Mode	Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)						
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5	1+2+4+5	1+2+3+4+5
Head SAR	LTE Band 66 (AWS)	0.175	0.122	0.268	0.458	0.057	0.565	0.755	0.354	1.023	0.622	0.812	1.080
	LTE Band 2 (PCS)	0.098	0.122	0.268	0.458	0.057	0.488	0.678	0.277	0.946	0.545	0.735	1.003
Configuration	Mode	4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)						
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5	1+2+4+5	1+2+3+4+5
Head SAR	LTE Band 66 (AWS) Ant 3	0.180	0.141	0.268	0.458	0.057	0.589	0.779	0.378	1.047	0.646	0.836	1.104
	LTE Band 2 (PCS) Ant 3	0.169	0.141	0.268	0.458	0.057	0.578	0.768	0.367	1.036	0.635	0.825	1.093

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H.4 Body-Worn Simultaneous Transmission Analysis

Table H-7
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Body-Worn at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Body-Worn	CDMA BC10 (§90S)	0.334	0.230	0.289	0.564	0.623
	CDMA BC0 (§22H)	0.507	0.230	0.289	0.737	0.796
	PCS CDMA	0.728	0.230	0.289	0.958	1.017
	GSM/GPRS 850	0.662	0.230	0.289	0.892	0.951
	GSM/GPRS 1900	0.345	0.230	0.289	0.575	0.634
	UMTS 850	0.555	0.230	0.289	0.785	0.844
	UMTS 1750	0.908	0.230	0.289	1.138	1.197
	UMTS 1900	0.702	0.230	0.289	0.932	0.991
	LTE Band 71	0.314	0.230	0.289	0.544	0.603
	LTE Band 12	0.307	0.230	0.289	0.537	0.596
	LTE Band 13	0.352	0.230	0.289	0.582	0.641
	LTE Band 26 (Cell)	0.510	0.230	0.289	0.740	0.799
	LTE Band 66 (AWS)	1.080	0.230	0.289	1.310	1.369
	LTE Band 25 (PCS)	0.584	0.230	0.289	0.814	0.873
	LTE Band 41	0.492	0.230	0.289	0.722	0.781
	NR Band n71	0.427	0.230	0.289	0.657	0.716
	NR Band n66 Ant 2	1.194	0.230	0.289	1.424	1.483
	NR Band n66 Ant 3	0.777	0.230	0.289	1.007	1.066
	NR Band n25 Ant 2	0.826	0.230	0.289	1.056	1.115
	NR Band n25 Ant 3	0.792	0.230	0.289	1.022	1.081
	NR Band n41	0.660	0.230	0.289	0.890	0.949

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Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2
Body-Worn	CDMA BC10 (§90S)	0.334	0.511	0.845	N/A
	CDMA BC0 (§22H)	0.507	0.511	1.018	N/A
	PCS CDMA	0.728	0.511	1.239	N/A
	GPRS 850	0.662	0.511	1.173	N/A
	GPRS 1900	0.345	0.511	0.856	N/A
	UMTS 850	0.555	0.511	1.066	N/A
	UMTS 1750	0.908	0.511	1.419	N/A
	UMTS 1900	0.702	0.511	1.213	N/A
	LTE Band 71	0.314	0.511	0.825	N/A
	LTE Band 12	0.307	0.511	0.818	N/A
	LTE Band 13	0.352	0.511	0.863	N/A
	LTE Band 26 (Cell)	0.510	0.511	1.021	N/A
	LTE Band 66 (AWS)	1.080	0.511	1.591	N/A
	LTE Band 25 (PCS)	0.584	0.511	1.095	N/A
	LTE Band 41	0.492	0.511	1.003	N/A
	NR Band n71	0.427	0.511	0.938	N/A
	NR Band n66 Ant 2	1.194	0.511	See Note 1	0.01
	NR Band n66 Ant 3	0.777	0.511	1.288	N/A
	NR Band n25 Ant 2	0.826	0.511	1.337	N/A
	NR Band n25 Ant 3	0.792	0.511	1.303	N/A
	NR Band n41	0.660	0.511	1.171	N/A

Configuration		Mode		4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)						
				1	2	3	4	1+2+3	1+2+4	1+2+3+4				
Body-Worn		LTE Band 66 (AWS) Ant 3		0.352	0.307	0.230	0.289	0.889	0.948	1.178				
		LTE Band 2 (PCS) Ant 3		0.403	0.307	0.230	0.289	0.940	0.999	1.229				
Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			SPLSR					
		1	2	3	4	1+2+3	1+2+4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body-Worn	LTE Band 66 (AWS)	1.080	0.427	0.069	0.076	1.576	1.583	See Note 1	0.03	0.01	0.01	0.00	0.00	0.00
	LTE Band 2 (PCS)	0.584	0.427	0.069	0.076	1.080	1.087	1.156	N/A	N/A	N/A	N/A	N/A	N/A
Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)								
		1	2	3	4	1+2+3	1+2+4	1+2+3+4						
Body-Worn	LTE Band 12	0.307	0.777	0.069	0.076	1.153	1.160	1.229						
	LTE Band 2 (PCS)	0.584	0.777	0.069	0.076	1.430	1.437	1.506						

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Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			SPLSR					
		1	2	3	4	1+2+3	1+2+4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body-Worn	LTE Band 12	0.307	0.792	0.069	0.076	1.168	1.175	1.244	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 66 (AWS)	1.080	0.792	0.069	0.076	See Note 1	See Note 1	See Note 1	0.04	0.01	0.01	0.01	0.01	0.00
Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			SPLSR					
		1	2	3	4	1+2+3	1+2+4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body-Worn	LTE Band 66 (AWS)	1.080	0.660	0.069	0.076	See Note 1	See Note 1	See Note 1	0.02	0.01	0.01	0.01	0.01	0.00
	LTE Band 2 (PCS)	0.584	0.660	0.069	0.076	1.313	1.320	1.389	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.

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Table H-8
Simultaneous Transmission Scenario with 2.4 GHz WLAN and Bluetooth (Body-Worn at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn	CDMA BC10 (§90S)	0.334	0.289	0.033	0.656
	CDMA BC0 (§22H)	0.507	0.289	0.033	0.829
	PCS CDMA	0.728	0.289	0.033	1.050
	GSM/GPRS 850	0.662	0.289	0.033	0.984
	GSM/GPRS 1900	0.345	0.289	0.033	0.667
	UMTS 850	0.555	0.289	0.033	0.877
	UMTS 1750	0.908	0.289	0.033	1.230
	UMTS 1900	0.702	0.289	0.033	1.024
	LTE Band 71	0.314	0.289	0.033	0.636
	LTE Band 12	0.307	0.289	0.033	0.629
	LTE Band 13	0.352	0.289	0.033	0.674
	LTE Band 26 (Cell)	0.510	0.289	0.033	0.832
	LTE Band 66 (AWS)	1.080	0.289	0.033	1.402
	LTE Band 25 (PCS)	0.584	0.289	0.033	0.906
	LTE Band 41	0.492	0.289	0.033	0.814
	NR Band n71	0.427	0.289	0.033	0.749
	NR Band n66 Ant 2	1.194	0.289	0.033	1.516
	NR Band n66 Ant 3	0.777	0.289	0.033	1.099
	NR Band n25 Ant 2	0.826	0.289	0.033	1.148
	NR Band n25 Ant 3	0.792	0.289	0.033	1.114
	NR Band n41	0.660	0.289	0.033	0.982

Configuration	Mode	4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body-Worn	LTE Band 66 (AWS) Ant 3	0.352	0.307	0.289	0.033	0.981
	LTE Band 2 (PCS) Ant 3	0.403	0.307	0.289	0.033	1.032

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body-Worn	LTE Band 66 (AWS)	1.080	0.427	0.076	0.033	See Note 1	0.03	0.01	0.01	0.00	0.00	0.00
	LTE Band 2 (PCS)	0.584	0.427	0.076	0.033	1.120	N/A	N/A	N/A	N/A	N/A	N/A

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Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body-Worn	LTE Band 12	0.307	0.777	0.076	0.033	1.193
	LTE Band 2 (PCS)	0.584	0.777	0.076	0.033	1.470

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body-Worn	LTE Band 12	0.307	0.792	0.076	0.033	1.208	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 66 (AWS)	1.080	0.792	0.076	0.033	See Note 1	0.04	0.01	0.01	0.01	0.01	0.00
Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body-Worn	LTE Band 66 (AWS)	1.080	0.660	0.076	0.033	See Note 1	0.02	0.01	0.01	0.01	0.01	0.00
	LTE Band 2 (PCS)	0.584	0.660	0.076	0.033	1.353	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.

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Table H-9

Simultaneous Transmission Scenario with 2.4 GHz Ant 1 and 5 GHz WLAN Ant 2 (Body-Worn at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR						
		1	2	3	1+2+3	1+2	1+3	2+3				
Body-Worn	CDMA BC10 (§90S)	0.334	0.230	0.416	0.980	N/A	N/A	N/A				
	CDMA BC0 (§22H)	0.507	0.230	0.416	1.153	N/A	N/A	N/A				
	PCS CDMA	0.728	0.230	0.416	1.374	N/A	N/A	N/A				
	GSM/GPRS 850	0.662	0.230	0.416	1.308	N/A	N/A	N/A				
	GSM/GPRS 1900	0.345	0.230	0.416	0.991	N/A	N/A	N/A				
	UMTS 850	0.555	0.230	0.416	1.201	N/A	N/A	N/A				
	UMTS 1750	0.908	0.230	0.416	1.554	N/A	N/A	N/A				
	UMTS 1900	0.702	0.230	0.416	1.348	N/A	N/A	N/A				
	LTE Band 71	0.314	0.230	0.416	0.960	N/A	N/A	N/A				
	LTE Band 12	0.307	0.230	0.416	0.953	N/A	N/A	N/A				
	LTE Band 13	0.352	0.230	0.416	0.998	N/A	N/A	N/A				
	LTE Band 26 (Cell)	0.510	0.230	0.416	1.156	N/A	N/A	N/A				
	LTE Band 66 (AWS)	1.080	0.230	0.416	See Note 1	0.01	0.01	0.02				
	LTE Band 25 (PCS)	0.584	0.230	0.416	1.230	N/A	N/A	N/A				
	LTE Band 41	0.492	0.230	0.416	1.138	N/A	N/A	N/A				
	NR Band n71	0.427	0.230	0.416	1.073	N/A	N/A	N/A				
	NR Band n66 Ant 2	1.194	0.230	0.416	See Note 1	0.01	0.01	0.02				
	NR Band n66 Ant 3	0.777	0.230	0.416	1.423	N/A	N/A	N/A				
	NR Band n25 Ant 2	0.826	0.230	0.416	1.472	N/A	N/A	N/A				
	NR Band n25 Ant 3	0.792	0.230	0.416	1.438	N/A	N/A	N/A				
NR Band n41	0.660	0.230	0.416	1.306	N/A	N/A	N/A					
Configuration	Mode		4G Ant 3 SAR (W/kg)		LTE Band 12 SAR (W/kg)		2.4 GHz WLAN Ant 1 SAR (W/kg)		5 GHz WLAN Ant 2 SAR (W/kg)		Σ SAR (W/kg)	
			1		2		3		4		1+2+3+4	
Body-Worn	LTE Band 66 (AWS) Ant 3		0.352		0.307		0.230		0.416		1.305	
	LTE Band 2 (PCS) Ant 3		0.403		0.307		0.230		0.416		1.356	
Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body-Worn	LTE Band 66 (AWS)	1.080	0.427	0.069	0.204	See Note 1	0.03	0.01	0.01	0.00	0.00	0.01
	LTE Band 2 (PCS)	0.584	0.427	0.069	0.204	1.284	N/A	N/A	N/A	N/A	N/A	N/A
Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body-Worn	LTE Band 12	0.307	0.777	0.069	0.204	1.357	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 2 (PCS)	0.584	0.777	0.069	0.204	See Note 1	0.02	0.00	0.00	0.01	0.01	0.01

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Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body-Worn	LTE Band 12	0.307	0.792	0.069	0.204	1.372	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 66 (AWS)	1.080	0.792	0.069	0.204	See Note 1	0.04	0.01	0.01	0.01	0.01	0.01
Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body-Worn	LTE Band 66 (AWS)	1.080	0.660	0.069	0.204	See Note 1	0.02	0.01	0.01	0.01	0.01	0.01
	LTE Band 2 (PCS)	0.584	0.660	0.069	0.204	1.517	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.

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Table H-10
Simultaneous Transmission Scenario with 5 GHz WLAN (Body-Worn at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR	
		1	2	3	1+2	1+3	1+2	1+3
Body-Worn	CDMA BC10 (\$90S)	0.334	0.931	0.416	1.265	0.750	N/A	N/A
	CDMA BC0 (\$22H)	0.507	0.931	0.416	1.438	0.923	N/A	N/A
	PCS CDMA	0.728	0.931	0.416	See Note 1	1.144	0.01	N/A
	GSM/GPRS 850	0.662	0.931	0.416	1.593	1.078	N/A	N/A
	GSM/GPRS 1900	0.345	0.931	0.416	1.276	0.761	N/A	N/A
	UMTS 850	0.555	0.931	0.416	1.486	0.971	N/A	N/A
	UMTS 1750	0.908	0.931	0.416	See Note 1	1.324	0.02	N/A
	UMTS 1900	0.702	0.931	0.416	See Note 1	1.118	0.01	N/A
	LTE Band 71	0.314	0.931	0.416	1.245	0.730	N/A	N/A
	LTE Band 12	0.307	0.931	0.416	1.238	0.723	N/A	N/A
	LTE Band 13	0.352	0.931	0.416	1.283	0.768	N/A	N/A
	LTE Band 26 (Cell)	0.510	0.931	0.416	1.441	0.926	N/A	N/A
	LTE Band 66 (AWS)	1.080	0.931	0.416	See Note 1	1.496	0.02	N/A
	LTE Band 25 (PCS)	0.584	0.931	0.416	1.515	1.000	N/A	N/A
	LTE Band 41	0.492	0.931	0.416	1.423	0.908	N/A	N/A
	NR Band n71	0.427	0.931	0.416	1.358	0.843	N/A	N/A
	NR Band n66 Ant 2	1.194	0.931	0.416	See Note 1	See Note 1	0.02	0.01
	NR Band n66 Ant 3	0.777	0.931	0.416	See Note 1	1.193	0.02	N/A
	NR Band n25 Ant 2	0.826	0.931	0.416	See Note 1	1.242	0.02	N/A
	NR Band n25 Ant 3	0.792	0.931	0.416	See Note 1	1.208	0.02	N/A
	NR Band n41	0.660	0.931	0.416	1.591	1.076	N/A	N/A

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Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2
Body-Worn	CDMA BC10 (§90S)	0.334	1.103	1.437	N/A
	CDMA BC0 (§22H)	0.507	1.103	See Note 1	0.02
	PCS CDMA	0.728	1.103	See Note 1	0.02
	GSM/GPRS 850	0.662	1.103	See Note 1	0.02
	GSM/GPRS 1900	0.345	1.103	1.448	N/A
	UMTS 850	0.555	1.103	See Note 1	0.02
	UMTS 1750	0.908	1.103	See Note 1	0.02
	UMTS 1900	0.702	1.103	See Note 1	0.02
	LTE Band 71	0.314	1.103	1.417	N/A
	LTE Band 12	0.307	1.103	1.410	N/A
	LTE Band 13	0.352	1.103	1.455	N/A
	LTE Band 26 (Cell)	0.510	1.103	See Note 1	0.02
	LTE Band 66 (AWS)	1.080	1.103	See Note 1	0.02
	LTE Band 25 (PCS)	0.584	1.103	See Note 1	0.02
	LTE Band 41	0.492	1.103	See Note 1	0.01
	NR Band n71	0.427	1.103	1.530	N/A
	NR Band n66 Ant 2	1.194	1.103	See Note 1	0.02
	NR Band n66 Ant 3	0.777	1.103	See Note 1	0.02
	NR Band n25 Ant 2	0.826	1.103	See Note 1	0.02
	NR Band n25 Ant 3	0.792	1.103	See Note 1	0.02
	NR Band n41	0.660	1.103	See Note 1	0.04

Configuration	Mode	4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	4	1+2+3	1+2+4	1+2	1+3	2+3
Body-Worn	LTE Band 66 (AWS) Ant 3	0.352	0.307	0.931	0.416	1.590	1.075	N/A	N/A	N/A
	LTE Band 2 (PCS) Ant 3	0.403	0.307	0.931	0.416	See Note 1	1.126	0.02	0.01	0.01

Configuration	Mode	4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR			
		1	2	3	1+2+3	1+2	1+3	2+3	
Body-Worn	LTE Band 66 (AWS) Ant 3	0.352	0.307	1.103	See Note 1	0.02	0.02	0.01	
	LTE Band 2 (PCS) Ant 3	0.403	0.307	1.103	See Note 1	0.02	0.02	0.01	

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR				
		1	2	3	4	1+2+3	1+2+4	1+2	1+3	1+4	2+3	2+4
Body-Worn	LTE Band 66 (AWS)	1.080	0.427	0.569	0.204	See Note 1	See Note 1	0.03	0.01	0.01	0.01	0.00
	LTE Band 2 (PCS)	0.584	0.427	0.569	0.204	1.580	1.215	N/A	N/A	N/A	N/A	N/A

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Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	1+2+3		1+2	1+3	2+3
Body-Worn	LTE Band 66 (AWS)	1.080	0.427	1.103	See Note 1		0.03	0.02	0.02
	LTE Band 2 (PCS)	0.584	0.427	1.103	See Note 1		0.02	0.02	0.02

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	4	1+2+3		1+2	1+3	2+3
Body-Worn	LTE Band 12	0.307	0.777	0.569	0.204	See Note 2		1.288	N/A	N/A
	LTE Band 2 (PCS)	0.584	0.777	0.569	0.204	See Note 1		1.565	0.02	0.01

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	1+2+3		1+2	1+3	2+3
Body-Worn	LTE Band 12	0.307	0.777	1.103	See Note 2		N/A	N/A	N/A
	LTE Band 2 (PCS)	0.584	0.777	1.103	See Note 1		0.02	0.02	0.02

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR				
		1	2	3	4	1+2+3		1+2	1+3	2+3	1+4	2+4
Body-Worn	LTE Band 12	0.307	0.792	0.569	0.204	See Note 2		1.303	N/A	N/A	N/A	N/A
	LTE Band 66 (AWS)	1.080	0.792	0.569	0.204	See Note 1		0.04	0.01	0.01	0.01	0.01

Configuration	Mode	LTE Anchor Band SAR (W/kg)		NR Band n25 SAR (W/kg)		5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR				
		1		2		3		1+2	1+3	2+3	1+4	2+4
Body-Worn	LTE Band 12	0.307		0.792		1.103	See Note 2		N/A	N/A	N/A	N/A
	LTE Band 66 (AWS)	1.080		0.792		1.103	See Note 1		0.04	0.02	0.02	0.02

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR				
		1	2	3	4	1+2+3		1+2	1+3	1+4	2+3	2+4
Body-Worn	LTE Band 66 (AWS)	1.080	0.660	0.569	0.204	See Note 1		0.02	0.01	0.01	0.02	0.01
	LTE Band 2 (PCS)	0.584	0.660	0.569	0.204	See Note 1		1.448	0.01	0.01	N/A	0.02

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR			
		1	2	3		1+2	1+3	2+3	1+4
Body-Worn	LTE Band 66 (AWS)	1.080	0.660	1.103	See Note 1		0.02	0.02	0.04
	LTE Band 2 (PCS)	0.584	0.660	1.103	See Note 1		0.01	0.02	0.04

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.
2. Please see Appendix I.2 for detailed simultaneous transmission analysis.

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Table H-11
Simultaneous Transmission Scenario with Bluetooth (Body-Worn at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body-Worn	CDMA BC10 (§90S)	0.334	0.033	0.367
	CDMA BC0 (§22H)	0.507	0.033	0.540
	PCS CDMA	0.728	0.033	0.761
	GSM/GPRS 850	0.662	0.033	0.695
	GSM/GPRS 1900	0.345	0.033	0.378
	UMTS 850	0.555	0.033	0.588
	UMTS 1750	0.908	0.033	0.941
	UMTS 1900	0.702	0.033	0.735
	LTE Band 71	0.314	0.033	0.347
	LTE Band 12	0.307	0.033	0.340
	LTE Band 13	0.352	0.033	0.385
	LTE Band 26 (Cell)	0.510	0.033	0.543
	LTE Band 66 (AWS)	1.080	0.033	1.113
	LTE Band 25 (PCS)	0.584	0.033	0.617
	LTE Band 41	0.492	0.033	0.525
	NR Band n71	0.427	0.033	0.460
	NR Band n66 Ant 2	1.194	0.033	1.227
	NR Band n66 Ant 3	0.777	0.033	0.810
	NR Band n25 Ant 2	0.826	0.033	0.859
	NR Band n25 Ant 3	0.792	0.033	0.825
	NR Band n41	0.660	0.033	0.693

Configuration	Mode	4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn	LTE Band 66 (AWS) Ant 3	0.352	0.307	0.033	0.692
	LTE Band 2 (PCS) Ant 3	0.403	0.307	0.033	0.743

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn	LTE Band 66 (AWS)	1.080	0.427	0.033	1.540
	LTE Band 2 (PCS)	0.584	0.427	0.033	1.044

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Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn	LTE Band 12	0.307	0.777	0.033	1.117
	LTE Band 2 (PCS)	0.584	0.777	0.033	1.394

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR		
		1	2	3	1+2+3	1+2	1+3	2+3
Body-Worn	LTE Band 12	0.307	0.792	0.033	1.132	N/A	N/A	N/A
	LTE Band 66 (AWS)	1.080	0.792	0.033	See Note 1	0.04	0.01	0.01

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	SPLSR		
		1	2	3	1+2+3	1+2	1+3	2+3
Body-Worn	LTE Band 66 (AWS)	1.080	0.660	0.033	See Note 1	0.02	0.01	0.01
	LTE Band 2 (PCS)	0.584	0.660	0.033	1.277	N/A	N/A	N/A

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Table H-12
Simultaneous Transmission Scenario with 5 GHz WLAN and Bluetooth (Body-Worn at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	4	1+2+3	1+2+4	1+2	1+4	2+4
Body-Worn	CDMA BC10 (\$90S)	0.334	0.033	0.931	0.416	1.298	0.783	N/A	N/A	N/A
	CDMA BC0 (\$22H)	0.507	0.033	0.931	0.416	1.471	0.956	N/A	N/A	N/A
	PCS CDMA	0.728	0.033	0.931	0.416	See Note 2	1.177	N/A	N/A	N/A
	GSM/GPRS 850	0.662	0.033	0.931	0.416	See Note 2	1.111	N/A	N/A	N/A
	GSM/GPRS 1900	0.345	0.033	0.931	0.416	1.309	0.794	N/A	N/A	N/A
	UMTS 850	0.555	0.033	0.931	0.416	1.519	1.004	N/A	N/A	N/A
	UMTS 1750	0.908	0.033	0.931	0.416	See Note 2	1.357	N/A	N/A	N/A
	UMTS 1900	0.702	0.033	0.931	0.416	See Note 2	1.151	N/A	N/A	N/A
	LTE Band 71	0.314	0.033	0.931	0.416	1.278	0.763	N/A	N/A	N/A
	LTE Band 12	0.307	0.033	0.931	0.416	1.271	0.756	N/A	N/A	N/A
	LTE Band 13	0.352	0.033	0.931	0.416	1.316	0.801	N/A	N/A	N/A
	LTE Band 26 (Cell)	0.510	0.033	0.931	0.416	1.474	0.959	N/A	N/A	N/A
	LTE Band 66 (AWS)	1.080	0.033	0.931	0.416	See Note 2	1.529	N/A	N/A	N/A
	LTE Band 25 (PCS)	0.584	0.033	0.931	0.416	1.548	1.033	N/A	N/A	N/A
	LTE Band 41	0.492	0.033	0.931	0.416	1.456	0.941	N/A	N/A	N/A
	NR Band n71	0.427	0.033	0.931	0.416	1.391	0.876	N/A	N/A	N/A
	NR Band n66 Ant 2	1.194	0.033	0.931	0.416	See Note 2	See Note 1	0.01	0.01	0.01
	NR Band n66 Ant 3	0.777	0.033	0.931	0.416	See Note 2	1.226	N/A	N/A	N/A
	NR Band n25 Ant 2	0.826	0.033	0.931	0.416	See Note 2	1.275	N/A	N/A	N/A
	NR Band n25 Ant 3	0.792	0.033	0.931	0.416	See Note 2	1.241	N/A	N/A	N/A
	NR Band n41	0.660	0.033	0.931	0.416	See Note 2	1.109	N/A	N/A	N/A

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Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn	CDMA BC10 (§90S)	0.334	0.033	1.103	1.470
	CDMA BC0 (§22H)	0.507	0.033	1.103	See Note 2
	PCS CDMA	0.728	0.033	1.103	See Note 2
	GSM/GPRS 850	0.662	0.033	1.103	See Note 2
	GSM/GPRS 1900	0.345	0.033	1.103	1.481
	UMTS 850	0.555	0.033	1.103	See Note 2
	UMTS 1750	0.908	0.033	1.103	See Note 2
	UMTS 1900	0.702	0.033	1.103	See Note 2
	LTE Band 71	0.314	0.033	1.103	1.450
	LTE Band 12	0.307	0.033	1.103	1.443
	LTE Band 13	0.352	0.033	1.103	1.488
	LTE Band 26 (Cell)	0.510	0.033	1.103	See Note 2
	LTE Band 66 (AWS)	1.080	0.033	1.103	See Note 2
	LTE Band 25 (PCS)	0.584	0.033	1.103	See Note 2
	LTE Band 41	0.492	0.033	1.103	See Note 2
	NR Band n71	0.427	0.033	1.103	1.563
	NR Band n66 Ant 2	1.194	0.033	1.103	See Note 2
	NR Band n66 Ant 3	0.777	0.033	1.103	See Note 2
	NR Band n25 Ant 2	0.826	0.033	1.103	See Note 2
	NR Band n25 Ant 3	0.792	0.033	1.103	See Note 2
	NR Band n41	0.660	0.033	1.103	See Note 2

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)		SPLSR								
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+2	1+3	1+4	1+5	2+3	2+4	2+5	3+5	4+5
Body-Worn	LTE Band 66 (AWS)	1.080	0.427	0.569	0.204	0.033	See Note 1	See Note 1	0.03	0.01	0.01	0.01	0.01	0.00	0.00	0.04	0.00
	LTE Band 2 (PCS)	0.584	0.427	0.569	0.204	0.033	See Note 1	1.248	0.02	0.01	N/A	0.00	0.01	N/A	0.00	0.04	N/A
Configuration	Mode					LTE Anchor Band SAR (W/kg)	NR Band n71 SAR (W/kg)		5 GHz WLAN MIMO SAR (W/kg)		Bluetooth SAR (W/kg)		Σ SAR (W/kg)				
						1	2		3		4		1+2+3+4				
Body-Worn	LTE Band 66 (AWS)				1.080		0.427		1.103		0.033		See Note 2				
	LTE Band 2 (PCS)				0.584		0.427		1.103		0.033		See Note 2				
Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)		SPLSR								
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+2	1+3	1+4	1+5	2+3	2+4	2+5	3+5	4+5
Body-Worn	LTE Band 12	0.307	0.777	0.569	0.204	0.033	See Note 2	1.321	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 2 (PCS)	0.584	0.777	0.569	0.204	0.033	See Note 1	See Note 1	0.02	0.01	0.00	0.00	0.01	0.01	0.01	0.04	0.00

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Configuration		Mode				LTE Anchor Band SAR (W/kg)	NR Band n66 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Bluetooth SAR (W/kg)		Σ SAR (W/kg)						
						1	2	3	4	1+2+3+4							
Body-Worn		LTE Band 12				0.307	0.777	1.103	0.033		See Note 2						
		LTE Band 2 (PCS)				0.584	0.777	1.103	0.033		See Note 2						
Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)		SPLSR								
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+2	1+3	1+4	1+5	2+3	2+4	2+5	3+5	4+5
Body-Worn	LTE Band 12	0.307	0.792	0.569	0.204	0.033	See Note 2	1.336	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 66 (AWS)	1.080	0.792	0.569	0.204	0.033	See Note 1	See Note 1	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.00

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n25 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3+4	
Body-Worn	LTE Band 12	0.307	0.792	1.103	0.033	See Note 2	
	LTE Band 66 (AWS)	1.080	0.792	1.103	0.033	See Note 2	

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)		SPLSR								
		1	2	3	4	5	1+2+3+5	1+2+4+5	1+2	1+3	1+4	1+5	2+3	2+4	2+5	3+5	4+5
Body-Worn	LTE Band 66 (AWS)	1.080	0.660	0.569	0.204	0.033	See Note 1	See Note 1	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.04	0.00
	LTE Band 2 (PCS)	0.584	0.660	0.569	0.204	0.033	See Note 1	1.481	0.01	0.01	N/A	0.00	0.02	N/A	0.01	0.04	N/A

Configuration	Mode	LTE Anchor Band SAR (W/kg)	NR Band n41 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3+4	
Body-Worn	LTE Band 66 (AWS)	1.080	0.660	1.103	0.033	See Note 2	
	LTE Band 2 (PCS)	0.584	0.660	1.103	0.033	See Note 2	

Configuration	Mode	4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	1+2+3+5	1+2+4+5
Body-Worn	LTE Band 66 (AWS) Ant 3	0.352	0.307	0.931	0.416	0.033	See Note 2	1.108
	LTE Band 2 (PCS) Ant 3	0.403	0.307	0.931	0.416	0.033	See Note 2	1.159

Configuration	Mode	4G Ant 3 SAR (W/kg)	LTE Band 12 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3+4	
Body-Worn	LTE Band 66 (AWS) Ant 3	0.352	0.307	1.103	0.033	See Note 2	
	LTE Band 2 (PCS) Ant 3	0.403	0.307	1.103	0.033	See Note 2	

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.
2. Please see Appendix I.2 for detailed simultaneous transmission analysis.

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H.5 Hotspot SAR Simultaneous Transmission Analysis

Table H-13
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	EVDO BC10 (\$90S)	0.494	0.429	0.289	0.923	0.783	1.212
	EVDO BC0 (\$22H)	0.571	0.429	0.289	1.000	0.860	1.289
	PCS EVDO	0.936	0.429	0.289	1.365	1.225	See Table Below
	GPRS 850	0.662	0.429	0.289	1.091	0.951	1.380
	GPRS 1900	0.773	0.429	0.289	1.202	1.062	1.491
	UMTS 850	0.555	0.429	0.289	0.984	0.844	1.273
	UMTS 1750	0.901	0.429	0.289	1.330	1.190	See Table Below
	UMTS 1900	0.845	0.429	0.289	1.274	1.134	1.563
	LTE Band 71	0.314	0.429	0.289	0.743	0.603	1.032
	LTE Band 12	0.307	0.429	0.289	0.736	0.596	1.025
	LTE Band 13	0.352	0.429	0.289	0.781	0.641	1.070
	LTE Band 26 (Cell)	0.510	0.429	0.289	0.939	0.799	1.228
	LTE Band 66 (AWS)	1.047	0.429	0.289	1.476	1.336	See Table Below
	LTE Band 25 (PCS)	1.000	0.429	0.289	1.429	1.289	See Table Below
	LTE Band 41	0.693	0.429	0.289	1.122	0.982	1.411
	NR Band n71	0.427	0.429	0.289	0.856	0.716	1.145
	NR Band n66 Ant 2	1.220	0.429	0.289	See Table Below	1.509	See Table Below
	NR Band n66 Ant 3	1.141	0.429	0.289	1.570	1.430	See Table Below
	NR Band n25 Ant 2	1.297	0.429	0.289	See Table Below	1.586	See Table Below
	NR Band n25 Ant 3	1.100	0.429	0.289	1.529	1.389	See Table Below
	NR Band n41	0.660	0.429	0.289	1.089	0.949	1.378

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	Back	0.590	0.230	0.289	0.820	0.879	1.109
	Front	0.731	0.241	0.185	0.972	0.916	1.157
	Top	-	0.429*	0.289*	0.429	0.289	0.718
	Bottom	0.936	-	-	0.936	0.936	0.936
	Left	0.093	0.429	0.289*	0.522	0.382	0.811
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	Back	0.529	0.230	0.289	0.759	0.818	1.048
	Front	0.504	0.241	0.185	0.745	0.689	0.930
	Top	-	0.429*	0.289*	0.429	0.289	0.718
	Bottom	0.901	-	-	0.901	0.901	0.901
	Left	0.170	0.429	0.289*	0.599	0.459	0.888
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	Back	0.831	0.230	0.289	1.061	1.120	1.350
	Front	0.687	0.241	0.185	0.928	0.872	1.113
	Top	-	0.429*	0.289*	0.429	0.289	0.718
	Bottom	1.047	-	-	1.047	1.047	1.047
	Left	0.194	0.429	0.289*	0.623	0.483	0.912
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	Back	0.641	0.230	0.289	0.871	0.930	1.160
	Front	0.747	0.241	0.185	0.988	0.932	1.173
	Top	-	0.429*	0.289*	0.429	0.289	0.718
	Bottom	1.000	-	-	1.000	1.000	1.000
	Left	0.123	0.429	0.289*	0.552	0.412	0.841
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	Back	0.527	0.230	0.289	0.757	0.816	1.046
	Front	0.576	0.241	0.185	0.817	0.761	1.002
	Top	-	0.429*	0.289*	0.429	0.289	0.718
	Bottom	0.183	-	-	0.183	0.183	0.183
	Right	1.141	-	-	1.141	1.141	1.141
Hotspot SAR	Left	-	0.429	0.289*	0.429	0.289	0.718

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Simult Tx	Configuration	NR Band n25 Ant 2 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			Simult Tx	Configuration	NR Band n25 Ant 3 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	1+2	1+3	1+2+3			1	2	3	1+2	1+3	1+2+3		
		Back	0.687	0.230	0.289	0.917	0.976			1.206	Back	0.551	0.230	0.289	0.781	0.840	1.070
Hotspot SAR	Front	0.690	0.241	0.185	0.931	0.875	1.116	Front	0.433	0.241	0.185	0.674	0.618	0.859			
	Top	-	0.429*	0.289*	0.429	0.289	0.718	Top	-	0.429*	0.289*	0.429	0.289	0.718			
	Bottom	1.297	-	-	1.297	1.297	1.297	Bottom	0.243	-	-	0.243	0.243	0.243			
	Right	0.147	-	-	0.599	0.459	0.888	Right	1.100	-	-	1.100	1.100	1.100			
	Left	0.170	0.429	0.289*	-	-	-	Left	-	0.429	0.289*	0.429	0.289	0.718			
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 2 (PCS) Ant 3 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 66 (AWS) Ant 3 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4			1	2	3	4	1+2+3	1+2+4	1+2+3+4
		Back	0.307	0.403	0.230	0.289	0.940	0.999			1.229	Back	0.307	0.352	0.230	0.289	0.889
Hotspot SAR	Front	0.279	0.346	0.241	0.185	0.866	0.810	1.051	Front	0.279	0.359	0.241	0.185	0.879	0.823	1.064	
	Top	-	-	0.429*	0.289*	0.429	0.289	0.718	Top	-	-	0.429*	0.289*	0.429	0.289	0.718	
	Bottom	0.153	0.274	-	-	0.427	0.427	0.427	Bottom	0.153	0.141	-	-	0.294	0.294	0.294	
	Right	0.147	1.068	-	-	1.215	1.215	1.215	Right	0.147	0.808	-	-	0.955	0.955	0.955	
	Left	-	-	0.429	0.289*	0.429	0.289	0.718	Left	-	-	0.429	0.289*	0.429	0.289	0.718	
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4			1	2	3	4	1+2+3	1+2+4	1+2+3+4
		Back	0.831	0.427	0.069	0.076	1.327	1.334			1.403	Back	0.641	0.427	0.069	0.076	1.137
Hotspot SAR	Front	0.687	0.362	0.125*	0.076*	1.174	1.125	1.250	Front	0.747	0.362	0.125*	0.076*	1.234	1.185	1.310	
	Top	-	-	0.125*	0.076*	0.125	0.076	0.201	Top	-	-	0.125*	0.076*	0.125	0.076	0.201	
	Bottom	1.047	0.174	-	-	1.221	1.221	1.221	Bottom	1.000	0.174	-	-	1.174	1.174	1.174	
	Right	-	0.326	-	-	0.326	0.326	0.326	Right	-	0.326	-	-	0.326	0.326	0.326	
	Left	0.194	-	0.125	0.076*	0.319	0.270	0.395	Left	0.123	-	0.125	0.076*	0.248	0.199	0.324	
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n66 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4			1	2	3	4	1+2+3	1+2+4	1+2+3+4
		Back	0.641	0.527	0.069	0.076	1.237	1.244			1.313	Back	0.307	0.527	0.069	0.076	0.903
Hotspot SAR	Front	0.747	0.576	0.125*	0.076*	1.448	1.399	1.524	Front	0.279	0.576	0.125*	0.076*	0.980	0.931	1.056	
	Top	-	-	0.125*	0.076*	0.125	0.076	0.201	Top	-	-	0.125*	0.076*	0.125	0.076	0.201	
	Bottom	1.000	0.183	-	-	1.183	1.183	1.183	Bottom	0.153	0.183	-	-	0.336	0.336	0.336	
	Right	-	1.141	-	-	1.141	1.141	1.141	Right	0.147	1.141	-	-	1.288	1.288	1.288	
	Left	0.123	-	0.125	0.076*	0.248	0.199	0.324	Left	-	-	0.125	0.076*	0.125	0.076	0.201	
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n25 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n25 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4			1	2	3	4	1+2+3	1+2+4	1+2+3+4
		Back	0.831	0.551	0.069	0.076	1.451	1.458			1.527	Back	0.307	0.551	0.069	0.076	0.927
Hotspot SAR	Front	0.687	0.433	0.125*	0.076*	1.245	1.196	1.321	Front	0.279	0.433	0.125*	0.076*	0.837	0.788	0.913	
	Top	-	-	0.125*	0.076*	0.125	0.076	0.201	Top	-	-	0.125*	0.076*	0.125	0.076	0.201	
	Bottom	1.047	0.243	-	-	1.290	1.290	1.290	Bottom	0.153	0.243	-	-	0.396	0.396	0.396	
	Right	-	1.100	-	-	1.100	1.100	1.100	Right	0.147	1.100	-	-	1.247	1.247	1.247	
	Left	0.194	-	0.125	0.076*	0.319	0.270	0.395	Left	-	-	0.125	0.076*	0.125	0.076	0.201	
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			SPLSR								
		1	2	3	4	1+2+3	1+2+4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4			
		Back	0.831	0.660	0.069	0.076	1.560	1.567	See Note 1	0.02	0.01	0.01	0.01	0.01	0.01	0.00	
Hotspot SAR	Front	0.687	0.054	0.125*	0.076*	0.866	0.817	0.942	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Top	-	-	0.125*	0.076*	0.125	0.076	0.201	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bottom	1.047	-	-	-	1.047	1.047	1.047	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Right	-	0.278	-	-	0.278	0.278	0.278	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Left	0.194	-	0.125	0.076*	0.319	0.270	0.395	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)											
		1	2	3	4	1+2+3	1+2+4	1+2+3+4									
		Back	0.641	0.660	0.069	0.076	1.370	1.377	1.446								
Hotspot SAR	Front	0.747	0.054	0.125*	0.076*	0.926	0.877	1.002									
	Top	-	-	0.125*	0.076*	0.125	0.076	0.201									
	Bottom	1.000	-	-	-	1.000	1.000	1.000									
	Right	-	0.278	-	-	0.278	0.278	0.278									
	Left	0.123	-	0.125	0.076*	0.248	0.199	0.324									

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.

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Table H-14
Simultaneous Transmission Scenario with 2.4 GHz WLAN and Bluetooth (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	EVDO BC10 (\$90S)	0.494	0.057	0.289	0.840
	EVDO BC0 (\$22H)	0.571	0.057	0.289	0.917
	PCS EVDO	0.936	0.057	0.289	1.282
	GPRS 850	0.662	0.057	0.289	1.008
	GPRS 1900	0.773	0.057	0.289	1.119
	UMTS 850	0.555	0.057	0.289	0.901
	UMTS 1750	0.901	0.057	0.289	1.247
	UMTS 1900	0.845	0.057	0.289	1.191
	LTE Band 71	0.314	0.057	0.289	0.660
	LTE Band 12	0.307	0.057	0.289	0.653
	LTE Band 13	0.352	0.057	0.289	0.698
	LTE Band 26 (Cell)	0.510	0.057	0.289	0.856
	LTE Band 66 (AWS)	1.047	0.057	0.289	1.393
	LTE Band 25 (PCS)	1.000	0.057	0.289	1.346
	LTE Band 41	0.693	0.057	0.289	1.039
	NR Band n71	0.427	0.057	0.289	0.773
	NR Band n66 Ant 2	1.220	0.057	0.289	1.566
	NR Band n66 Ant 3	1.141	0.057	0.289	1.487
	NR Band n25 Ant 2	1.297	0.057	0.289	See Table Below
	NR Band n25 Ant 3	1.100	0.057	0.289	1.446
	NR Band n41	0.660	0.057	0.289	1.006

Simult Tx	Configuration	NR Band n25 Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.687	0.033	0.289	1.009
	Front	0.690	0.028	0.185	0.903
	Top	-	0.031	0.289*	0.320
	Bottom	1.297	-	-	1.297
	Left	0.170	0.057	0.289*	0.516

Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 66 (AWS) Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 2 (PCS) Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.307	0.352	0.033	0.289	0.981	Hotspot SAR	Back	0.307	0.403	0.033	0.289	1.032
	Front	0.279	0.359	0.028	0.185	0.851		Front	0.279	0.346	0.028	0.185	0.838
	Top	-	-	0.031	0.289*	0.320		Top	-	-	0.031	0.289*	0.320
	Bottom	0.153	0.141	-	-	0.294		Bottom	0.153	0.274	-	-	0.427
	Right	0.147	0.808	-	-	0.955		Right	0.147	1.068	-	-	1.215
	Left	-	-	0.057	0.289*	0.346		Left	-	-	0.057	0.289*	0.346

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.831	0.427	0.033	0.076	1.367	Hotspot SAR	Back	0.641	0.427	0.033	0.076	1.177
	Front	0.687	0.362	0.028	0.076*	1.153		Front	0.747	0.362	0.028	0.076*	1.213
	Top	-	-	0.031	0.076*	0.107		Top	-	-	0.031	0.076*	0.107
	Bottom	1.047	0.174	-	-	1.221		Bottom	1.000	0.174	-	-	1.174
	Right	-	0.326	-	-	0.326		Right	-	0.326	-	-	0.326
	Left	0.194	-	0.057	0.076*	0.327		Left	0.123	-	0.057	0.076*	0.256
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n66 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.641	0.527	0.033	0.076	1.277	Hotspot SAR	Back	0.307	0.527	0.033	0.076	0.943
	Front	0.747	0.576	0.028	0.076*	1.427		Front	0.279	0.576	0.028	0.076*	0.959
	Top	-	-	0.031	0.076*	0.107		Top	-	-	0.031	0.076*	0.107
	Bottom	1.000	0.183	-	-	1.183		Bottom	0.153	0.183	-	-	0.336
	Right	-	1.141	-	-	1.141		Right	0.147	1.141	-	-	1.288
	Left	0.123	-	0.057	0.076*	0.256		Left	-	-	0.057	0.076*	0.133
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n25 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n25 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.307	0.551	0.033	0.076	0.967	Hotspot SAR	Back	0.831	0.551	0.033	0.076	1.491
	Front	0.279	0.433	0.028	0.076*	0.816		Front	0.687	0.433	0.028	0.076*	1.224
	Top	-	-	0.031	0.076*	0.107		Top	-	-	0.031	0.076*	0.107
	Bottom	0.153	0.243	-	-	0.396		Bottom	1.047	0.243	-	-	1.290
	Right	0.147	1.100	-	-	1.247		Right	-	1.100	-	-	1.100
	Left	-	-	0.057	0.076*	0.133		Left	0.194	-	0.057	0.076*	0.327

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n41 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.641	0.660	0.033	0.076	1.410
	Front	0.747	0.054	0.028	0.076*	0.905
	Top	-	-	0.031	0.076*	0.107
	Bottom	1.000	-	-	-	1.000
	Right	-	0.278	-	-	0.278
	Left	0.123	-	0.057	0.076*	0.256

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n41 SAR (W/kg)	Bluetooth SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Hotspot SAR	Back	0.831	0.660	0.033	0.076	See Note 1	0.02	0.01	0.01	0.01	0.01	0.00
	Front	0.687	0.054	0.028	0.076*	0.845	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	0.031	0.076*	0.107	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom	1.047	-	-	-	1.047	N/A	N/A	N/A	N/A	N/A	N/A
	Right	-	0.278	-	-	0.278	N/A	N/A	N/A	N/A	N/A	N/A
	Left	0.194	-	0.057	0.076*	0.327	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.

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Table H-15

Simultaneous Transmission Scenario with 2 GHz WLAN Ant 1 and 5 GHz WLAN Ant 2 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	EVDO BC10 (§90S)	0.494	0.429	0.416	1.339
	EVDO BC0 (§22H)	0.571	0.429	0.416	1.416
	PCS EVDO	0.936	0.429	0.416	See Table Below
	GPRS 850	0.662	0.429	0.416	1.507
	GPRS 1900	0.773	0.429	0.416	See Table Below
	UMTS 850	0.555	0.429	0.416	1.400
	UMTS 1750	0.901	0.429	0.416	See Table Below
	UMTS 1900	0.845	0.429	0.416	See Table Below
	LTE Band 71	0.314	0.429	0.416	1.159
	LTE Band 12	0.307	0.429	0.416	1.152
	LTE Band 13	0.352	0.429	0.416	1.197
	LTE Band 26 (Cell)	0.510	0.429	0.416	1.355
	LTE Band 66 (AWS)	1.047	0.429	0.416	See Table Below
	LTE Band 25 (PCS)	1.000	0.429	0.416	See Table Below
	LTE Band 41	0.693	0.429	0.416	1.538
	NR Band n71	0.427	0.429	0.416	1.272
	NR Band n66 Ant 2	1.220	0.429	0.416	See Table Below
	NR Band n66 Ant 3	1.141	0.429	0.416	See Table Below
	NR Band n25 Ant 2	1.297	0.429	0.416	See Table Below
	NR Band n25 Ant 3	1.100	0.429	0.416	See Table Below
	NR Band n41	0.660	0.429	0.416	1.505

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.590	0.230	0.416	1.236	Hotspot SAR	Back	0.345	0.230	0.416	0.991
	Front	0.731	0.241	0.142	1.114		Front	0.279	0.241	0.142	0.662
	Top	-	0.429*	0.268	0.697		Top	-	0.429*	0.268	0.697
	Bottom	0.936	-	-	0.936		Bottom	0.773	-	-	0.773
	Left	0.093	0.429	0.416*	0.938		Left	0.068	0.429	0.416*	0.913

Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.529	0.230	0.416	1.175	Hotspot SAR	Back	0.622	0.230	0.416	1.268
	Front	0.504	0.241	0.142	0.887		Front	0.659	0.241	0.142	1.042
	Top	-	0.429*	0.268	0.697		Top	-	0.429*	0.268	0.697
	Bottom	0.901	-	-	0.901		Bottom	0.845	-	-	0.845
	Left	0.170	0.429	0.416*	1.015		Left	0.136	0.429	0.416*	0.981

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3			1	2	3	1+2+3		
Hotspot SAR	Back	0.831	0.230	0.416	1.477	Hotspot SAR	Back	0.641	0.230	0.416	1.287		
	Front	0.687	0.241	0.142	1.070		Front	0.747	0.241	0.142	1.130		
	Top	-	0.429*	0.268	0.697		Top	-	0.429*	0.268	0.697		
	Bottom	1.047	-	-	1.047		Bottom	1.000	-	-	1.000		
	Left	0.194	0.429	0.416*	1.039		Left	0.123	0.429	0.416*	0.968		
Simult Tx	Configuration	NR Band n66 Ant 2 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 Ant 3 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3			1	2	3	1+2+3		
Hotspot SAR	Back	0.856	0.230	0.416	1.502	Hotspot SAR	Back	0.527	0.230	0.416	1.173		
	Front	1.072	0.241	0.142	1.455		Front	0.576	0.241	0.142	0.959		
	Top	-	0.429*	0.268	0.697		Top	-	0.429*	0.268	0.697		
	Bottom	1.220	-	-	1.220		Bottom	0.183	-	-	0.183		
	Left	0.253	0.429	0.416*	1.098		Left	1.141	-	-	1.141		
Simult Tx	Configuration	NR Band n25 Ant 2 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 Ant 3 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3			2	2	3	1+2+3		
Hotspot SAR	Back	0.687	0.230	0.416	1.333	Hotspot SAR	Back	0.551	0.230	0.416	1.197		
	Front	0.690	0.241	0.142	1.073		Front	0.433	0.241	0.142	0.816		
	Top	-	0.429*	0.268	0.697		Top	-	0.429*	0.268	0.697		
	Bottom	1.297	-	-	1.297		Bottom	0.243	-	-	0.243		
	Left	0.170	0.429	0.416*	1.015		Left	1.100	-	-	1.100		
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 66 (AWS) Ant 3 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 2 (PCS) Ant 3 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.307	0.352	0.230	0.416	1.305	Hotspot SAR	Back	0.307	0.403	0.230	0.416	1.356
	Front	0.279	0.359	0.241	0.142	1.021		Front	0.279	0.346	0.241	0.142	1.008
	Top	-	-	0.429*	0.268	0.697		Top	-	-	0.429*	0.268	0.697
	Bottom	0.153	0.141	-	-	0.294		Bottom	0.153	0.274	-	-	0.427
	Right	0.147	0.808	-	-	0.955		Right	0.147	1.068	-	-	1.215
Hotspot SAR	Left	-	-	0.429	0.416*	0.845	Hotspot SAR	Left	-	-	0.429	0.416*	0.845
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.831	0.427	0.069	0.204	1.531	Hotspot SAR	Back	0.641	0.427	0.069	0.204	1.341
	Front	0.687	0.362	0.125*	0.062	1.236		Front	0.747	0.362	0.125*	0.062	1.296
	Top	-	-	0.125*	0.132	0.257		Top	-	-	0.125*	0.132	0.257
	Bottom	1.047	0.174	-	-	1.221		Bottom	1.000	0.174	-	-	1.174
	Right	-	0.326	-	-	0.326		Right	-	0.326	-	-	0.326
Hotspot SAR	Left	0.194	-	0.125	0.086	0.405	Hotspot SAR	Left	0.123	-	0.125	0.086	0.334
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n66 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.641	0.527	0.069	0.204	1.441	Hotspot SAR	Back	0.307	0.527	0.069	0.204	1.107
	Front	0.747	0.576	0.125*	0.062	1.510		Front	0.279	0.576	0.125*	0.062	1.042
	Top	-	-	0.125*	0.132	0.257		Top	-	-	0.125*	0.132	0.257
	Bottom	1.000	0.183	-	-	1.183		Bottom	0.153	0.183	-	-	0.336
	Right	-	1.141	-	-	1.141		Right	0.147	1.141	-	-	1.288
Hotspot SAR	Left	0.123	-	0.125	0.086	0.334	Hotspot SAR	Left	-	-	0.125	0.086	0.211

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n25 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR						
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4	
Hotspot SAR	Back	0.831	0.551	0.069	0.204	See Note 1	0.03	0.01	0.01	0.00	0.01	0.01	
	Front	0.687	0.433	0.125*	0.062	1.307	N/A	N/A	N/A	N/A	N/A	N/A	
	Top	-	-	0.125*	0.132	0.257	N/A	N/A	N/A	N/A	N/A	N/A	
	Bottom	1.047	0.243	-	-	1.290	N/A	N/A	N/A	N/A	N/A	N/A	
	Right	-	1.100	-	-	1.100	N/A	N/A	N/A	N/A	N/A	N/A	
	Left	0.194	-	0.125	0.086	0.405	N/A	N/A	N/A	N/A	N/A	N/A	
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n25 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.307	0.551	0.069	0.204	1.131	Hotspot SAR	Back	0.641	0.660	0.069	0.204	1.574
	Front	0.279	0.433	0.125*	0.062	0.899		Front	0.747	0.054	0.125*	0.062	0.988
	Top	-	-	0.125*	0.132	0.257		Top	-	-	0.125*	0.132	0.257
	Bottom	0.153	0.243	-	-	0.396		Bottom	1.000	-	-	-	1.000
	Right	0.147	1.100	-	-	1.247		Right	-	0.278	-	-	0.278
	Left	-	-	0.125	0.086	0.211		Left	0.123	-	0.125	0.086	0.334
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR						
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4	
Hotspot SAR	Back	0.831	0.660	0.069	0.204	See Note 1	0.02	0.01	0.01	0.01	0.01	0.01	
	Front	0.687	0.054	0.125*	0.062	0.928	N/A	N/A	N/A	N/A	N/A	N/A	
	Top	-	-	0.125*	0.132	0.257	N/A	N/A	N/A	N/A	N/A	N/A	
	Bottom	1.047	-	-	-	1.047	N/A	N/A	N/A	N/A	N/A	N/A	
	Right	-	0.278	-	-	0.278	N/A	N/A	N/A	N/A	N/A	N/A	
	Left	0.194	-	0.125	0.086	0.405	N/A	N/A	N/A	N/A	N/A	N/A	

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.

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Table H-16
Simultaneous Transmission Scenario with 5 GHz WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot SAR	EVDO BC10 (\$90S)	0.494	0.931	0.416	1.425	0.910
	EVDO BC0 (\$22H)	0.571	0.931	0.416	1.502	0.987
	PCS EVDO	0.936	0.931	0.416	See Table Below	1.352
	GPRS 850	0.662	0.931	0.416	1.593	1.078
	GPRS 1900	0.773	0.931	0.416	See Table Below	1.189
	UMTS 850	0.555	0.931	0.416	1.486	0.971
	UMTS 1750	0.901	0.931	0.416	See Table Below	1.317
	UMTS 1900	0.845	0.931	0.416	See Table Below	1.261
	LTE Band 71	0.314	0.931	0.416	1.245	0.730
	LTE Band 12	0.307	0.931	0.416	1.238	0.723
	LTE Band 13	0.352	0.931	0.416	1.283	0.768
	LTE Band 26 (Cell)	0.510	0.931	0.416	1.441	0.926
	LTE Band 66 (AWS)	1.047	0.931	0.416	See Table Below	1.463
	LTE Band 25 (PCS)	1.000	0.931	0.416	See Table Below	1.416
	LTE Band 41	0.693	0.931	0.416	See Table Below	1.109
	NR Band n71	0.427	0.931	0.416	1.358	0.843
	NR Band n66 Ant 2	1.220	0.931	0.416	See Table Below	See Table Below
	NR Band n66 Ant 3	1.141	0.931	0.416	See Table Below	1.557
	NR Band n25 Ant 2	1.297	0.931	0.416	See Table Below	See Table Below
	NR Band n25 Ant 3	1.100	0.931	0.416	See Table Below	1.516
	NR Band n41	0.660	0.931	0.416	1.591	1.076

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Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	EVDO BC10 (§90S)	0.494	1.103	See Table Below
	EVDO BC0 (§22H)	0.571	1.103	See Table Below
	PCS EVDO	0.936	1.103	See Table Below
	GPRS 850	0.662	1.103	See Table Below
	GPRS 1900	0.773	1.103	See Table Below
	UMTS 850	0.555	1.103	See Table Below
	UMTS 1750	0.901	1.103	See Table Below
	UMTS 1900	0.845	1.103	See Table Below
	LTE Band 71	0.314	1.103	1.417
	LTE Band 12	0.307	1.103	1.410
	LTE Band 13	0.352	1.103	1.455
	LTE Band 26 (Cell)	0.510	1.103	See Table Below
	LTE Band 66 (AWS)	1.047	1.103	See Table Below
	LTE Band 25 (PCS)	1.000	1.103	See Table Below
	LTE Band 41	0.693	1.103	See Table Below
	NR Band n71	0.427	1.103	1.530
	NR Band n66 Ant 2	1.220	1.103	See Table Below
	NR Band n66 Ant 3	1.141	1.103	See Table Below
	NR Band n25 Ant 2	1.297	1.103	See Table Below
	NR Band n25 Ant 3	1.100	1.103	See Table Below
	NR Band n41	0.660	1.103	See Table Below

Simult Tx	Configuration	EVDO BC10 (§90S) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	EVDO BC0 (§22H) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2			1	2	1+2	1+2
Hotspot SAR	Back	0.494	1.103	See Note 1	0.02	Hotspot SAR	Back	0.571	1.103	See Note 1	0.02
	Front	0.429	0.216	0.645	N/A		Front	0.512	0.216	0.728	N/A
	Top	-	0.381	0.381	N/A		Top	-	0.381	0.381	N/A
	Bottom	0.229	-	0.229	N/A		Bottom	0.243	-	0.243	N/A
	Right	0.177	-	0.177	N/A		Right	0.236	-	0.236	N/A
	Left	-	0.281	0.281	N/A		Left	-	0.281	0.281	N/A

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	3	1+2	1+3			1	2	1+2	1+2
Hotspot SAR	Back	0.590	0.931	0.416	1.521	1.006	Hotspot SAR	Back	0.590	1.103	See Note 1	0.02
	Front	0.731	0.036	0.142	0.767	0.873		Front	0.731	0.216	0.947	N/A
	Top	-	0.284	0.268	0.284	0.268		Top	-	0.381	0.381	N/A
	Bottom	0.936	-	-	0.936	0.936		Bottom	0.936	-	0.936	N/A
	Left	0.093	0.931*	0.416*	1.024	0.509		Left	0.093	0.281	0.374	N/A

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Simult Tx	Configuration	GPRS 850 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2
Hotspot SAR	Back	0.662	1.103	See Note 1	0.02
	Front	0.644	0.216	0.860	N/A
	Top	-	0.381	0.381	N/A
	Bottom	0.353	-	0.353	N/A
	Right	0.359	-	0.359	N/A
	Left	-	0.281	0.281	N/A

Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot SAR	Back	0.345	0.931	0.416	1.276	0.761
	Front	0.279	0.036	0.142	0.315	0.421
	Top	-	0.284	0.268	0.284	0.268
	Bottom	0.773	-	-	0.773	0.773
	Left	0.068	0.931*	0.416*	0.999	0.484

Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Back	0.345	1.103	1.448
	Front	0.279	0.216	0.495
	Top	-	0.381	0.381
	Bottom	0.773	-	0.773
	Left	0.068	0.281	0.349

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2
Hotspot SAR	Back	0.555	1.103	See Note 1	0.02
	Front	0.490	0.216	0.706	N/A
	Top	-	0.381	0.381	N/A
	Bottom	0.247	-	0.247	N/A
	Right	0.236	-	0.236	N/A
	Left	-	0.281	0.281	N/A

Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot SAR	Back	0.529	0.931	0.416	1.460	0.945
	Front	0.504	0.036	0.142	0.540	0.646
	Top	-	0.284	0.268	0.284	0.268
	Bottom	0.901	-	-	0.901	0.901
	Left	0.170	0.931*	0.416*	1.101	0.586

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot SAR	Back	0.622	0.931	0.416	1.553	1.038
	Front	0.659	0.036	0.142	0.695	0.801
	Top	-	0.284	0.268	0.284	0.268
	Bottom	0.845	-	-	0.845	0.845
	Left	0.136	0.931*	0.416*	1.067	0.552

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2
Hotspot SAR	Back	0.510	1.103	See Note 1	0.02
	Front	0.465	0.216	0.681	N/A
	Top	-	0.381	0.381	N/A
	Bottom	0.268	-	0.268	N/A
	Right	0.252	-	0.252	N/A
	Left	-	0.281	0.281	N/A

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot SAR	Back	0.831	0.931	0.416	See Note 1	1.247
	Front	0.687	0.036	0.142	0.723	0.829
	Top	-	0.284	0.268	0.284	0.268
	Bottom	1.047	-	-	1.047	1.047
	Left	0.194	0.931*	0.416*	1.125	0.610

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2
Hotspot SAR	Back	0.831	1.103	See Note 1	0.02
	Front	0.687	0.216	0.903	N/A
	Top	-	0.381	0.381	N/A
	Bottom	1.047	-	1.047	N/A
	Left	0.194	0.281	0.475	N/A

Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot SAR	Back	0.641	0.931	0.416	1.572	1.057
	Front	0.747	0.036	0.142	0.783	0.889
	Top	-	0.284	0.268	0.284	0.268
	Bottom	1.000	-	-	1.000	1.000
	Left	0.123	0.931*	0.416*	1.054	0.539

Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot SAR	Back	0.310	0.931	0.416	1.241	0.726
	Front	0.274	0.036	0.142	0.310	0.416
	Top	-	0.284	0.268	0.284	0.268
	Bottom	0.693	-	-	0.693	0.693
	Left	0.094	0.931*	0.416*	1.025	0.510

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Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	
Hotspot SAR	Back	0.310	1.103	1.413	
	Front	0.274	0.216	0.490	
	Top	-	0.381	0.381	
	Bottom	0.693	-	0.693	
	Left	0.094	0.281	0.375	

Simult Tx	Configuration	NR Band n66 Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR
		1	2	3	1+2	1+3	
Hotspot SAR	Back	0.856	0.931	0.416	See Note 1	1.272	0.02
	Front	1.072	0.036	0.142	1.108	1.214	N/A
	Top	-	0.284	0.268	0.284	0.268	N/A
	Bottom	1.220	-	-	1.220	1.220	N/A
	Left	0.253	0.931*	0.416*	1.184	0.669	N/A

Simult Tx	Configuration	NR Band n66 Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	
Hotspot SAR	Back	0.856	1.103	See Note 1	0.02
	Front	1.072	0.216	1.288	N/A
	Top	-	0.381	0.381	N/A
	Bottom	1.220	-	1.220	N/A
	Left	0.253	0.281	0.534	N/A

Simult Tx	Configuration	NR Band n66 Ant 3 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	
Hotspot SAR	Back	0.527	1.103	See Note 1	0.02
	Front	0.576	0.216	0.792	N/A
	Top	-	0.381	0.381	N/A
	Bottom	0.183	-	0.183	N/A
	Right	1.141	-	1.141	N/A
	Left	-	0.281	0.281	N/A

Simult Tx	Configuration	NR Band n66 Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR
		1	2	3	1+2	1+3	
Hotspot SAR	Back	0.687	0.931	0.416	See Note 1	1.103	0.01
	Front	0.690	0.036	0.142	0.726	0.832	N/A
	Top	-	0.284	0.268	0.284	0.268	N/A
	Bottom	1.297	-	-	1.297	1.297	N/A
	Left	0.170	0.931*	0.416*	1.101	0.586	N/A

Simult Tx	Configuration	NR Band n25 Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	
Hotspot SAR	Back	0.687	1.103	See Note 1	0.02
	Front	0.690	0.216	0.906	N/A
	Top	-	0.381	0.381	N/A
	Bottom	1.297	-	1.297	N/A
	Left	0.170	0.281	0.451	N/A

Simult Tx	Configuration	NR Band n25 Ant 3 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR
		1	2	3	1+2	1+3	
Hotspot SAR	Back	0.551	0.931	0.416	1.482	0.967	
	Front	0.433	0.036	0.142	0.469	0.575	
	Top	-	0.284	0.268	0.284	0.268	
	Bottom	0.243	-	-	0.243	0.243	
	Right	1.100	-	-	1.100	1.100	
	Left	-	0.931*	0.416*	0.931	0.416	

Simult Tx	Configuration	NR Band n25 Ant 3 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	
Hotspot SAR	Back	0.551	1.103	See Note 1	0.02
	Front	0.433	0.216	0.649	N/A
	Top	-	0.381	0.381	N/A
	Bottom	0.243	-	0.243	N/A
	Right	1.100	-	1.100	N/A
	Left	-	0.281	0.281	N/A

Simult Tx	Configuration	NR Band n41 (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		2	2	1+2	
Hotspot SAR	Back	0.660	1.103	See Note 1	0.04
	Front	0.054	0.216	0.270	N/A
	Top	-	0.381	0.381	N/A
	Right	0.278	-	0.278	N/A
	Left	-	0.281	0.281	N/A

Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 66 (AWS) Ant 3 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	4	1+2+3	1+2+4	1+2	1+3	2+3
Hotspot SAR	Back	0.307	0.352	0.931	0.416	1.590	1.075			
	Front	0.279	0.359	0.036	0.142	0.674	0.790			
	Top	-	-	0.284	0.268	0.284	0.268			
	Bottom	0.153	0.141	-	-	0.294	0.294			
	Right	0.147	0.808	-	-	0.955	0.955			
	Left	-	-	0.931*	0.416*	0.931	0.416			

Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 2 (PCS) Ant 3 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR			
		1	2	3	1+2+3	1+2	1+3	2+3	
Hotspot SAR	Back	0.307	0.403	1.103	See Note 1	0.02	0.01	0.02	
	Front	0.279	0.346	0.216	0.841	N/A	N/A	N/A	
	Top	-	-	0.381	0.381	N/A	N/A	N/A	
	Bottom	0.153	0.274	-	0.427	N/A	N/A	N/A	
	Right	0.147	1.068	-	1.215	N/A	N/A	N/A	
	Left	-	-	0.281	0.281	N/A	N/A	N/A	

Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 66 (AWS) Ant 3 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR			
		1	2	3	1+2+3	1+2	1+3	2+3	
Hotspot SAR	Back	0.307	0.352	1.103	See Note 1	0.02	0.01	0.02	
	Front	0.279	0.359	0.216	0.854	N/A	N/A	N/A	
	Top	-	-	0.381	0.381	N/A	N/A	N/A	
	Bottom	0.153	0.141	-	0.294	N/A	N/A	N/A	
	Right	0.147	0.808	-	0.955	N/A	N/A	N/A	
	Left	-	-	0.281	0.281	N/A	N/A	N/A	

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	4	1+2+3	1+2+4	1+2	1+3	2+3
Hotspot SAR	Back	0.831	0.427	0.569	0.204	See Note 1	1.462	0.04	0.01	0.01
	Front	0.687	0.362	0.055	0.062	1.104	1.111	N/A	N/A	N/A
	Top	-	-	0.139	0.132	0.139	0.132	N/A	N/A	N/A
	Bottom	1.047	0.174	-	-	1.221	1.221	N/A	N/A	N/A
	Right	-	0.326	-	-	0.326	0.326	N/A	N/A	N/A
	Left	0.194	-	0.178	0.086	0.372	0.280	N/A	N/A	N/A

Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR			Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR		
	1	2	3	1+2+3	1+2	1+3	2+3			1	2	3	1+2+3	1+2	1+3	2+3
Back	0.831	0.427	1.103	See Note 1	0.04	0.02	0.02	Hotspot SAR	Back	0.641	0.427	1.103	See Note 1	0.03	0.02	0.02
Front	0.687	0.362	0.216	1.265	N/A	N/A	N/A		Front	0.747	0.362	0.216	1.325	N/A	N/A	N/A
Top	-	-	0.381	0.381	N/A	N/A	N/A		Top	-	-	0.381	0.381	N/A	N/A	N/A
Bottom	1.047	0.174	-	1.221	N/A	N/A	N/A		Bottom	1.000	0.174	-	1.174	N/A	N/A	N/A
Right	-	0.326	-	0.326	N/A	N/A	N/A		Right	-	0.326	-	0.326	N/A	N/A	N/A
Left	0.194	-	0.281	0.475	N/A	N/A	N/A		Left	0.123	-	0.281	0.404	N/A	N/A	N/A

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	4	1+2+3	1+2+4	1+2	1+3	2+3
Hotspot SAR	Back	0.641	0.427	0.569	0.204	See Note 1	1.272	0.03	0.01	0.01
	Front	0.747	0.362	0.055	0.062	1.164	1.171	N/A	N/A	N/A
	Top	-	-	0.139	0.132	0.139	0.132	N/A	N/A	N/A
	Bottom	1.000	0.174	-	-	1.174	1.174	N/A	N/A	N/A
	Right	-	0.326	-	-	0.326	0.326	N/A	N/A	N/A
	Left	0.123	-	0.178	0.086	0.301	0.209	N/A	N/A	N/A

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n66 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	4	1+2+3	1+2+4	1+2	1+3	2+3
Hotspot SAR	Back	0.641	0.527	0.569	0.204	See Note 1	1.372	0.02	0.01	0.01
	Front	0.747	0.576	0.055	0.062	1.378	1.385	N/A	N/A	N/A
	Top	-	-	0.139	0.132	0.139	0.132	N/A	N/A	N/A
	Bottom	1.000	0.183	-	-	1.183	1.183	N/A	N/A	N/A
	Right	-	1.141	-	-	1.141	1.141	N/A	N/A	N/A
	Left	0.123	-	0.178	0.086	0.301	0.209	N/A	N/A	N/A

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n66 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR			Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2+3	1+2	1+3	2+3			1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.641	0.527	1.103	See Note 1	0.02	0.02	0.02	Hotspot SAR	Back	0.307	0.527	0.569	0.204	1.403	1.038
	Front	0.747	0.576	0.216	1.539	N/A	N/A	N/A		Front	0.279	0.576	0.055	0.062	0.910	0.917
	Top	-	-	0.381	0.381	N/A	N/A	N/A		Top	-	-	0.139	0.132	0.139	0.132
	Bottom	1.000	0.183	-	1.183	N/A	N/A	N/A		Bottom	0.153	0.183	-	-	0.336	0.336
	Right	-	1.141	-	1.141	N/A	N/A	N/A		Right	0.147	1.141	-	-	1.288	1.288
	Left	0.123	-	0.281	0.404	N/A	N/A	N/A		Left	-	-	0.178	0.086	0.178	0.086

Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR			Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n25 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR		
		1	2	3	1+2+3	1+2	1+3	2+3			1	2	3	1+2+3	1+2	1+3	2+3
Hotspot SAR	Back	0.307	0.527	1.103	See Note 1	0.03	0.01	0.02	Hotspot SAR	Back	0.831	0.551	1.103	See Note 1	0.03	0.02	0.02
	Front	0.279	0.576	0.216	1.071	N/A	N/A	N/A		Front	0.687	0.433	0.216	1.336	N/A	N/A	N/A
	Top	-	-	0.381	0.381	N/A	N/A	N/A		Top	-	-	0.381	0.381	N/A	N/A	N/A
	Bottom	0.153	0.183	-	0.336	N/A	N/A	N/A		Bottom	1.047	0.243	-	1.290	N/A	N/A	N/A
	Right	0.147	1.141	-	1.288	N/A	N/A	N/A		Right	-	1.100	-	1.100	N/A	N/A	N/A
	Left	-	-	0.281	0.281	N/A	N/A	N/A		Left	0.194	-	0.281	0.475	N/A	N/A	N/A

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n25 (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	4	1+2+3	1+2+4	1+2	1+3	2+3
Hotspot SAR	Back	0.831	0.551	0.569	0.204	See Note 1	1.586	0.03	0.01	0.01
	Front	0.687	0.433	0.055	0.062	1.175	1.182	N/A	N/A	N/A
	Top	-	-	0.139	0.132	0.139	0.132	N/A	N/A	N/A
	Bottom	1.047	0.243	-	-	1.290	1.290	N/A	N/A	N/A
	Right	-	1.100	-	-	1.100	1.100	N/A	N/A	N/A
	Left	0.194	-	0.178	0.086	0.372	0.280	N/A	N/A	N/A

Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n25 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n25 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR		
		1	2	3	4	1+2+3	1+2+4			1	2	3				
Hotspot SAR	Back	0.307	0.551	0.569	0.204	1.427	1.062	Hotspot SAR	Back	0.307	0.551	1.103	See Note 1	0.03	0.01	0.02
	Front	0.279	0.433	0.055	0.062	0.767	0.774		Front	0.279	0.433	0.216	0.928	N/A	N/A	N/A
	Top	-	-	0.139	0.132	0.139	0.132		Top	-	-	0.381	0.381	N/A	N/A	N/A
	Bottom	0.153	0.243	-	-	0.396	0.396		Bottom	0.153	0.243	-	0.396	N/A	N/A	N/A
	Right	0.147	1.100	-	-	1.247	1.247		Right	0.147	1.100	-	1.247	N/A	N/A	N/A
	Left	-	-	0.178	0.086	0.178	0.086		Left	-	-	0.281	0.281	N/A	N/A	N/A

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n41 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR				
		1	2	3	4	1+2+3	1+2+4	1+2	1+3	1+4	2+3	2+4
Hotspot SAR	Back	0.831	0.660	0.569	0.204	See Note 1	See Note 1	0.02	0.01	0.01	0.02	0.01
	Front	0.687	0.054	0.055	0.062	0.796	0.803	N/A	N/A	N/A	N/A	N/A
	Top	-	-	0.139	0.132	0.139	0.132	N/A	N/A	N/A	N/A	N/A
	Bottom	1.047	-	-	-	1.047	1.047	N/A	N/A	N/A	N/A	N/A
	Right	-	0.278	-	-	0.278	0.278	N/A	N/A	N/A	N/A	N/A
	Left	0.194	-	0.178	0.086	0.372	0.280	N/A	N/A	N/A	N/A	N/A

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n41 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR		
		1	2	3	4	1+2+3	1+2+4	1+2	1+3	2+3
Hotspot SAR	Back	0.641	0.660	0.569	0.204	See Note 1	1.505	0.01	0.01	0.02
	Front	0.747	0.054	0.055	0.062	0.856	0.863	N/A	N/A	N/A
	Top	-	-	0.139	0.132	0.139	0.132	N/A	N/A	N/A
	Bottom	1.000	-	-	-	1.000	1.000	N/A	N/A	N/A
	Right	-	0.278	-	-	0.278	0.278	N/A	N/A	N/A
	Left	0.123	-	0.178	0.086	0.301	0.209	N/A	N/A	N/A

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n41 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR			Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n41 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR		
		1	2	3	1+2+3	1+2	1+3	2+3			1	2	3				
Hotspot SAR	Back	0.641	0.660	1.103	See Note 1	0.01	0.02	0.04	Hotspot SAR	Back	0.831	0.660	1.103	See Note 1	0.02	0.02	0.04
	Front	0.747	0.054	0.216	1.017	N/A	N/A	N/A		Front	0.687	0.054	0.216	0.957	N/A	N/A	N/A
	Top	-	-	0.381	0.381	N/A	N/A	N/A		Top	-	-	0.381	0.381	N/A	N/A	N/A
	Bottom	1.000	-	-	1.000	N/A	N/A	N/A		Bottom	1.047	-	-	1.047	N/A	N/A	N/A
	Right	-	0.278	-	0.278	N/A	N/A	N/A		Right	-	0.278	-	0.278	N/A	N/A	N/A
	Left	0.123	-	0.281	0.404	N/A	N/A	N/A		Left	0.194	-	0.281	0.475	N/A	N/A	N/A

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.

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Table H-17
Simultaneous Transmission Scenario with Bluetooth (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	EVDO BC10 (\$90S)	0.494	0.057	0.551
	EVDO BC0 (\$22H)	0.571	0.057	0.628
	PCS EVDO	0.936	0.057	0.993
	GPRS 850	0.662	0.057	0.719
	GPRS 1900	0.773	0.057	0.830
	UMTS 850	0.555	0.057	0.612
	UMTS 1750	0.901	0.057	0.958
	UMTS 1900	0.845	0.057	0.902
	LTE Band 71	0.314	0.057	0.371
	LTE Band 12	0.307	0.057	0.364
	LTE Band 13	0.352	0.057	0.409
	LTE Band 26 (Cell)	0.510	0.057	0.567
	LTE Band 66 (AWS)	1.047	0.057	1.104
	LTE Band 25 (PCS)	1.000	0.057	1.057
	LTE Band 41	0.693	0.057	0.750
	NR Band n71	0.427	0.057	0.484
	NR Band n66 Ant 2	1.220	0.057	1.277
	NR Band n66 Ant 3	1.141	0.057	1.198
	NR Band n25 Ant 2	1.297	0.057	1.354
	NR Band n25 Ant 3	1.100	0.057	1.157
	NR Band n41	0.660	0.057	0.717

Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 66 (AWS) Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 2 (PCS) Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.307	0.352	0.033	0.692	Hotspot SAR	Back	0.307	0.403	0.033	0.743
	Front	0.279	0.359	0.028	0.666		Front	0.279	0.346	0.028	0.653
	Top	-	-	0.031	0.031		Top	-	-	0.031	0.031
	Bottom	0.153	0.141	-	0.294		Bottom	0.153	0.274	-	0.427
	Right	0.147	0.808	-	0.955		Right	0.147	1.068	-	1.215
	Left	-	-	0.057	0.057		Left	-	-	0.057	0.057
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.831	0.427	0.033	1.291	Hotspot SAR	Back	0.641	0.427	0.033	1.101
	Front	0.687	0.362	0.028	1.077		Front	0.747	0.362	0.028	1.137
	Top	-	-	0.031	0.031		Top	-	-	0.031	0.031
	Bottom	1.047	0.174	-	1.221		Bottom	1.000	0.174	-	1.174
	Right	-	0.326	-	0.326		Right	-	0.326	-	0.326
	Left	0.194	-	0.057	0.251		Left	0.123	-	0.057	0.180

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Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n66 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.641	0.527	0.033	1.201	Hotspot SAR	Back	0.307	0.527	0.033	0.867
	Front	0.747	0.576	0.028	1.351		Front	0.279	0.576	0.028	0.883
	Top	-	-	0.031	0.031		Top	-	-	0.031	0.031
	Bottom	1.000	0.183	-	1.183		Bottom	0.153	0.183	-	0.336
	Right	-	1.141	-	1.141		Right	0.147	1.141	-	1.288
	Left	0.123	-	0.057	0.180		Left	-	-	0.057	0.057
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n25 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n25 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.307	0.551	0.033	0.891	Hotspot SAR	Back	0.831	0.551	0.033	1.415
	Front	0.279	0.433	0.028	0.740		Front	0.687	0.433	0.028	1.148
	Top	-	-	0.031	0.031		Top	-	-	0.031	0.031
	Bottom	0.153	0.243	-	0.396		Bottom	1.047	0.243	-	1.290
	Right	0.147	1.100	-	1.247		Right	-	1.100	-	1.100
	Left	-	-	0.057	0.057		Left	0.194	-	0.057	0.251
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n41 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n41 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.641	0.660	0.033	1.334	Hotspot SAR	Back	0.831	0.660	0.033	1.524
	Front	0.747	0.054	0.028	0.829		Front	0.687	0.054	0.028	0.769
	Top	-	-	0.031	0.031		Top	-	-	0.031	0.031
	Bottom	1.000	-	-	1.000		Bottom	1.047	-	-	1.047
	Right	-	0.278	-	0.278		Right	-	0.278	-	0.278
	Left	0.123	-	0.057	0.180		Left	0.194	-	0.057	0.251

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Table H-18
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Hotspot at 1.0 cm)

Exposure Condition	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+4	1+3+4
Hotspot SAR	EVDO BC10 (\$90S)	0.494	0.931	0.416	0.057	1.482	0.967
	EVDO BC0 (\$22H)	0.571	0.931	0.416	0.057	1.559	1.044
	PCS EVDO	0.936	0.931	0.416	0.057	See Table Below	1.409
	GPRS 850	0.662	0.931	0.416	0.057	See Table Below	1.135
	GPRS 1900	0.773	0.931	0.416	0.057	See Table Below	1.246
	UMTS 850	0.555	0.931	0.416	0.057	1.543	1.028
	UMTS 1750	0.901	0.931	0.416	0.057	See Table Below	1.374
	UMTS 1900	0.845	0.931	0.416	0.057	See Table Below	1.318
	LTE Band 71	0.314	0.931	0.416	0.057	1.302	0.787
	LTE Band 12	0.307	0.931	0.416	0.057	1.295	0.780
	LTE Band 13	0.352	0.931	0.416	0.057	1.340	0.825
	LTE Band 26 (Cell)	0.510	0.931	0.416	0.057	1.498	0.983
	LTE Band 66 (AWS)	1.047	0.931	0.416	0.057	See Table Below	1.520
	LTE Band 25 (PCS)	1.000	0.931	0.416	0.057	See Table Below	1.473
	LTE Band 41	0.693	0.931	0.416	0.057	See Table Below	1.166
	NR Band n71	0.427	0.931	0.416	0.057	1.415	0.900
	NR Band n66 Ant 2	1.220	0.931	0.416	0.057	See Table Below	See Table Below
	NR Band n66 Ant 3	1.141	0.931	0.416	0.057	See Table Below	See Table Below
	NR Band n25 Ant 2	1.297	0.931	0.416	0.057	See Table Below	See Table Below
	NR Band n25 Ant 3	1.100	0.931	0.416	0.057	See Table Below	1.573
	NR Band n41	0.660	0.931	0.416	0.057	See Table Below	1.133

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.590	0.033	0.931	0.416	1.554	1.039
	Front	0.731	0.028	0.036	0.142	0.795	0.901
	Top	-	0.031	0.284	0.268	0.315	0.299
	Bottom	0.936	-	-	-	0.936	0.936
	Left	0.093	0.057	0.931*	0.416*	1.081	0.566
Simult Tx	Configuration	GPRS 850 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.662	0.033	0.931	0.416	See Note 2	1.111
	Front	0.644	0.028	0.036	0.142	0.708	0.814
	Top	-	0.031	0.284	0.268	0.315	0.299
	Bottom	0.353	-	-	-	0.353	0.353
	Right	0.359	-	-	-	0.359	0.359
Hotspot SAR	Left	-	0.057	0.931*	0.416*	0.988	0.473
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.529	0.033	0.931	0.416	1.493	0.978
	Front	0.504	0.028	0.036	0.142	0.568	0.674
	Top	-	0.031	0.284	0.268	0.315	0.299
	Bottom	0.901	-	-	-	0.901	0.901
	Left	0.170	0.057	0.931*	0.416*	1.158	0.643
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.622	0.033	0.931	0.416	1.586	1.071
	Front	0.659	0.028	0.036	0.142	0.723	0.829
	Top	-	0.031	0.284	0.268	0.315	0.299
	Bottom	0.845	-	-	-	0.845	0.845
	Left	0.136	0.057	0.931*	0.416*	1.124	0.609
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.831	0.033	0.931	0.416	See Note 2	1.280
	Front	0.687	0.028	0.036	0.142	0.751	0.857
	Top	-	0.031	0.284	0.268	0.315	0.299
	Bottom	1.047	-	-	-	1.047	1.047
	Left	0.194	0.057	0.931*	0.416*	1.182	0.667

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Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)								
		1	2	3	4	1+2+3	1+2+4							
Hotspot SAR	Back	0.641	0.033	0.931	0.416	See Note 2	1.090							
	Front	0.747	0.028	0.036	0.142	0.811	0.917							
	Top	-	0.031	0.284	0.268	0.315	0.299							
	Bottom	1.000	-	-	-	1.000	1.000							
	Left	0.123	0.057	0.931*	0.416*	1.111	0.596							
Simult Tx	Configuration	NR Band n66 Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)								
		1	2	3	4	1+2+3	1+2+4							
Hotspot SAR	Back	0.856	0.033	0.931	0.416	See Note 2	1.305							
	Front	1.072	0.028	0.036	0.142	1.136	1.242							
	Top	-	0.031	0.284	0.268	0.315	0.299							
	Bottom	1.220	-	-	-	1.220	1.220							
	Left	0.253	0.057	0.931*	0.416*	1.241	0.726							
Simult Tx	Configuration	NR Band n66 Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)								
		1	2	3	4	1+2+3	1+2+4							
Hotspot SAR	Back	0.527	0.033	0.931	0.416	1.491	0.976							
	Front	0.576	0.028	0.036	0.142	0.640	0.746							
	Top	-	0.031	0.284	0.268	0.315	0.299							
	Bottom	0.183	-	-	-	0.183	0.183							
	Right	1.141	-	-	-	1.141	1.141							
	Left	-	0.057	0.931*	0.416*	0.988	0.473							
	Left	-	0.057	0.931*	0.416*	0.988	0.473							
Simult Tx	Configuration	NR Band n41 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)								
		1	2	3	4	1+2+3	1+2+4							
Hotspot SAR	Back	0.660	0.033	0.931	0.416	See Note 2	1.109							
	Front	0.054	0.028	0.036	0.142	0.118	0.224							
	Top	-	0.031	0.284	0.268	0.315	0.299							
	Right	0.278	-	-	-	0.278	0.278							
	Left	-	0.057	0.931*	0.416*	0.988	0.473							
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 66 (AWS) Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)							
		1	2	3	4	5	1+2+3+4	1+2+3+5						
Hotspot SAR	Back	0.307	0.352	0.033	0.931	0.416	See Note 2	1.108						
	Front	0.279	0.359	0.028	0.036	0.142	0.702	0.808						
	Top	-	-	0.031	0.284	0.268	0.315	0.299						
	Bottom	0.153	0.141	-	-	-	0.294	0.294						
	Right	0.147	0.808	-	-	-	0.955	0.955						
	Left	-	-	0.057	0.931*	0.416*	0.820	0.275						
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 2 (PCS) Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)							
		1	2	3	4	5	1+2+3+4	1+2+3+5						
Hotspot SAR	Back	0.307	0.403	0.033	0.931	0.416	See Note 2	1.159						
	Front	0.279	0.346	0.028	0.036	0.142	0.689	0.795						
	Top	-	-	0.031	0.284	0.268	0.315	0.299						
	Bottom	0.153	0.274	-	-	-	0.427	0.427						
	Right	0.147	1.068	-	-	-	1.215	1.215						
	Left	-	-	0.057	0.931*	0.416*	0.820	0.275						
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR					
		1	2	3	4	5	1+2+3+4	1+2+3+5	1+2	1+3	1+4	2+3	2+4	3+4
Hotspot SAR	Back	0.831	0.427	0.033	0.569	0.204	See Note 1	1.495	0.04	0.01	0.01	0.00	0.01	0.04
	Front	0.687	0.362	0.028	0.055	0.062	1.132	1.139	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	0.031	0.139	0.132	0.170	0.163	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom	1.047	0.174	-	-	-	1.221	1.221	N/A	N/A	N/A	N/A	N/A	N/A
	Right	-	0.326	-	-	-	0.326	0.326	N/A	N/A	N/A	N/A	N/A	N/A
Hotspot SAR	Left	0.194	-	0.057	0.178	0.086	0.429	0.337	N/A	N/A	N/A	N/A	N/A	N/A
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR					
		1	2	3	4	5	1+2+3+4	1+2+3+5	1+2	1+3	1+4	2+3	2+4	3+4
Hotspot SAR	Back	0.641	0.427	0.033	0.569	0.204	See Note 1	1.305	0.03	0.00	0.01	0.00	0.01	0.04
	Front	0.747	0.362	0.028	0.055	0.062	1.192	1.199	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	0.031	0.139	0.132	0.170	0.163	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom	1.000	0.174	-	-	-	1.174	1.174	N/A	N/A	N/A	N/A	N/A	N/A
	Right	-	0.326	-	-	-	0.326	0.326	N/A	N/A	N/A	N/A	N/A	N/A
	Left	0.123	-	0.057	0.178	0.086	0.358	0.266	N/A	N/A	N/A	N/A	N/A	N/A
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n66 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR					
		1	2	3	4	5	1+2+3+4	1+2+3+5	1+2	1+3	1+4	2+3	2+4	3+4
Hotspot SAR	Back	0.641	0.527	0.033	0.569	0.204	See Note 1	1.405	0.02	0.00	0.01	0.00	0.01	0.04
	Front	0.747	0.576	0.028	0.055	0.062	1.406	1.413	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	0.031	0.139	0.132	0.170	0.163	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom	1.000	0.183	-	-	-	1.183	1.183	N/A	N/A	N/A	N/A	N/A	N/A
	Right	-	1.141	-	-	-	1.141	1.141	N/A	N/A	N/A	N/A	N/A	N/A
	Left	0.123	-	0.057	0.178	0.086	0.358	0.266	N/A	N/A	N/A	N/A	N/A	N/A

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Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n25 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	1+2+3+4	1+2+3+5			1	2	3	4	5	1+2+3+4	1+2+3+5
		Back	0.307	0.527	0.033	0.569	0.204	1.436			1.071	Back	0.307	0.551	0.033	0.569	0.204
Hotspot SAR	Front	0.279	0.576	0.028	0.055	0.062	0.938	0.945	Front	0.279	0.433	0.028	0.055	0.062	0.795	0.802	
	Top	-	-	0.031	0.139	0.132	0.170	0.163	Top	-	-	0.031	0.139	0.132	0.170	0.163	
	Bottom	0.153	0.183	-	-	-	0.336	0.336	Bottom	0.153	0.243	-	-	-	0.396	0.396	
	Right	0.147	1.141	-	-	-	1.288	1.288	Right	0.147	1.100	-	-	-	1.247	1.247	
	Left	-	-	0.057	0.178	0.086	0.235	0.143	Left	-	-	0.057	0.178	0.086	0.235	0.143	

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n25 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR								
		1	2	3	4	5	1+2+3+4	1+2+3+5	1+2	1+3	1+4	1+5	2+3	2+4	2+5	3+4	3+5
Hotspot SAR	Back	0.831	0.551	0.033	0.569	0.204	See Note 1	See Note 1	0.03	0.01	0.01	0.01	0.00	0.01	0.01	0.04	0.00
	Front	0.687	0.433	0.028	0.055	0.062	1.203	1.210	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	0.031	0.139	0.132	0.170	0.163	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom	1.047	0.243	-	-	-	1.290	1.290	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right	-	1.100	-	-	-	1.100	1.100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Left	0.194	-	0.057	0.178	0.086	0.429	0.337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n41 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR								
		1	2	3	4	5	1+2+3+4	1+2+3+5	1+2	1+3	1+4	1+5	2+3	2+4	2+5	3+4	3+5
Hotspot SAR	Back	0.831	0.660	0.033	0.569	0.204	See Note 1	See Note 1	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.04	0.00
	Front	0.687	0.054	0.028	0.055	0.062	0.824	0.831	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	0.031	0.139	0.132	0.170	0.163	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom	1.047	-	-	-	-	1.047	1.047	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Right	-	0.278	-	-	-	0.278	0.278	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Left	0.194	-	0.057	0.178	0.086	0.429	0.337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n41 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR						
		1	2	3	4	5	1+2+3+4	1+2+3+5	1+2	1+3	1+4	2+3	2+4	3+4	
Hotspot SAR	Back	0.641	0.660	0.033	0.569	0.204	See Note 1	1.538	0.01	0.00	0.01	0.01	0.02	0.04	
	Front	0.747	0.054	0.028	0.055	0.062	0.884	0.891	N/A	N/A	N/A	N/A	N/A	N/A	
	Top	-	-	0.031	0.139	0.132	0.170	0.163	N/A	N/A	N/A	N/A	N/A	N/A	
	Bottom	1.000	-	-	-	-	1.000	1.000	N/A	N/A	N/A	N/A	N/A	N/A	
	Right	-	0.278	-	-	-	0.278	0.278	N/A	N/A	N/A	N/A	N/A	N/A	
	Left	0.123	-	0.057	0.178	0.086	0.358	0.266	N/A	N/A	N/A	N/A	N/A	N/A	

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Exposure Condition	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	EVDO BC10 (\$90S)	0.494	1.103	0.057	See Table Below
	EVDO BC0 (\$22H)	0.571	1.103	0.057	See Table Below
	PCS EVDO	0.936	1.103	0.057	See Table Below
	GPRS 850	0.662	1.103	0.057	See Table Below
	GPRS 1900	0.773	1.103	0.057	See Table Below
	UMTS 850	0.555	1.103	0.057	See Table Below
	UMTS 1750	0.901	1.103	0.057	See Table Below
	UMTS 1900	0.845	1.103	0.057	See Table Below
	LTE Band 71	0.314	1.103	0.057	1.474
	LTE Band 12	0.307	1.103	0.057	1.467
	LTE Band 13	0.352	1.103	0.057	1.512
	LTE Band 26 (Cell)	0.510	1.103	0.057	See Table Below
	LTE Band 66 (AWS)	1.047	1.103	0.057	See Table Below
	LTE Band 25 (PCS)	1.000	1.103	0.057	See Table Below
	LTE Band 41	0.693	1.103	0.057	See Table Below
	NR Band n71	0.427	1.103	0.057	1.587
	NR Band n66 Ant 2	1.220	1.103	0.057	See Table Below
	NR Band n66 Ant 3	1.141	1.103	0.057	See Table Below
	NR Band n25 Ant 2	1.297	1.103	0.057	See Table Below
	NR Band n25 Ant 3	1.100	1.103	0.057	See Table Below
	NR Band n41	0.660	1.103	0.057	See Table Below

Simult Tx	Configuration	EVDO BC10 (\$90S) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	EVDO BC0 (\$22H) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.494	0.033	1.103	See Note 2	Hotspot SAR	Back	0.571	0.033	1.103	See Note 2
	Front	0.429	0.028	0.216	0.673		Front	0.512	0.028	0.216	0.756
	Top	-	0.031	0.381	0.412		Top	-	0.031	0.381	0.412
	Bottom	0.229	-	-	0.229		Bottom	0.243	-	-	0.243
	Right	0.177	-	-	0.177		Right	0.236	-	-	0.236
	Left	-	0.057	0.281	0.338		Left	-	0.057	0.281	0.338

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 850 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.590	0.033	1.103	See Note 2	Hotspot SAR	Back	0.662	0.033	1.103	See Note 2
	Front	0.731	0.028	0.216	0.975		Front	0.644	0.028	0.216	0.888
	Top	-	0.031	0.381	0.412		Top	-	0.031	0.381	0.412
	Bottom	0.936	-	-	0.936		Bottom	0.353	-	-	0.353
	Right	-	-	-	-		Right	0.359	-	-	0.359
	Left	0.093	0.057	0.281	0.431		Left	-	0.057	0.281	0.338

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Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 850 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.345	0.033	1.103	1.481	Hotspot SAR	Back	0.555	0.033	1.103	See Note 2
	Front	0.279	0.028	0.216	0.523		Front	0.490	0.028	0.216	0.734
	Top	-	0.031	0.381	0.412		Top	-	0.031	0.381	0.412
	Bottom	0.773	-	-	0.773		Bottom	0.247	-	-	0.247
	Left	0.068	0.057	0.281	0.406		Right	0.236	-	-	0.236
							Left	-	0.057	0.281	0.338
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.529	0.033	1.103	See Note 2	Hotspot SAR	Back	0.622	0.033	1.103	See Note 2
	Front	0.504	0.028	0.216	0.748		Front	0.659	0.028	0.216	0.903
	Top	-	0.031	0.381	0.412		Top	-	0.031	0.381	0.412
	Bottom	0.901	-	-	0.901		Bottom	0.845	-	-	0.845
	Left	0.170	0.057	0.281	0.508		Left	0.136	0.057	0.281	0.474
Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.510	0.033	1.103	See Note 2	Hotspot SAR	Back	0.641	0.033	1.103	See Note 2
	Front	0.465	0.028	0.216	0.709		Front	0.747	0.028	0.216	0.991
	Top	-	0.031	0.381	0.412		Top	-	0.031	0.381	0.412
	Bottom	0.268	-	-	0.268		Bottom	1.000	-	-	1.000
	Right	0.252	-	-	0.252		Left	0.123	0.057	0.281	0.461
	Left	-	0.057	0.281	0.338						
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.831	0.033	1.103	See Note 2	Hotspot SAR	Back	0.641	0.033	1.103	See Note 2
	Front	0.687	0.028	0.216	0.931		Front	0.747	0.028	0.216	0.991
	Top	-	0.031	0.381	0.412		Top	-	0.031	0.381	0.412
	Bottom	1.047	-	-	1.047		Bottom	1.000	-	-	1.000
	Left	0.194	0.057	0.281	0.532		Left	0.123	0.057	0.281	0.461
Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.310	0.033	1.103	1.446	Hotspot SAR	Back	0.856	0.033	1.103	See Note 2
	Front	0.274	0.028	0.216	0.518		Front	1.072	0.028	0.216	1.316
	Top	-	0.031	0.381	0.412		Top	-	0.031	0.381	0.412
	Bottom	0.693	-	-	0.693		Bottom	1.220	-	-	1.220
	Left	0.094	0.057	0.281	0.432		Left	0.253	0.057	0.281	0.591
Simult Tx	Configuration	NR Band n25 Ant 2 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n41 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.687	0.033	1.103	See Note 2	Hotspot SAR	Back	0.660	0.033	1.103	See Note 2
	Front	0.690	0.028	0.216	0.934		Front	0.054	0.028	0.216	0.298
	Top	-	0.031	0.381	0.412		Top	-	0.031	0.381	0.412
	Bottom	1.297	-	-	1.297		Right	0.278	-	-	0.278
	Left	0.170	0.057	0.281	0.508		Left	-	0.057	0.281	0.338

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Simult Tx	Configuration	NR Band n66 Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3			1	2	3	1+2+3		
Hotspot SAR	Back	0.527	0.033	1.103	See Note 2	Hotspot SAR	Back	0.551	0.033	1.103	See Note 2		
	Front	0.576	0.028	0.216	0.820		Front	0.433	0.028	0.216	0.677		
	Top	-	0.031	0.381	0.412		Top	-	0.031	0.381	0.412		
	Bottom	0.183	-	-	0.183		Bottom	0.243	-	-	0.243		
	Right	1.141	-	-	1.141		Right	1.100	-	-	1.100		
	Left	-	0.057	0.281	0.338		Left	-	0.057	0.281	0.338		
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 66 (AWS) Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	LTE Band 2 (PCS) Ant 3 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.307	0.352	0.033	1.103	See Note 2	Hotspot SAR	Back	0.307	0.403	0.033	1.103	See Note 2
	Front	0.279	0.359	0.028	0.216	0.882		Front	0.279	0.346	0.028	0.216	0.869
	Top	-	-	0.031	0.381	0.412		Top	-	-	0.031	0.381	0.412
	Bottom	0.153	0.141	-	-	0.294		Bottom	0.153	0.274	-	-	0.427
	Right	0.147	0.808	-	-	0.955		Right	0.147	1.068	-	-	1.215
	Left	-	-	0.057	0.281	0.338		Left	-	-	0.057	0.281	0.338
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.831	0.427	0.033	1.103	See Note 2	Hotspot SAR	Back	0.641	0.427	0.033	1.103	See Note 2
	Front	0.687	0.362	0.028	0.216	1.293		Front	0.747	0.362	0.028	0.216	1.353
	Top	-	-	0.031	0.381	0.412		Top	-	-	0.031	0.381	0.412
	Bottom	1.047	0.174	-	-	1.221		Bottom	1.000	0.174	-	-	1.174
	Right	-	0.326	-	-	0.326		Right	-	0.326	-	-	0.326
	Left	0.194	-	0.057	0.281	0.532		Left	0.123	-	0.057	0.281	0.461
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n66 (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.641	0.527	0.033	1.103	See Note 2	Hotspot SAR	Back	0.307	0.527	0.033	1.103	See Note 2
	Front	0.747	0.576	0.028	0.216	1.567		Front	0.279	0.576	0.028	0.216	1.099
	Top	-	-	0.031	0.381	0.412		Top	-	-	0.031	0.381	0.412
	Bottom	1.000	0.183	-	-	1.183		Bottom	0.153	0.183	-	-	0.336
	Right	-	1.141	-	-	1.141		Right	0.147	1.141	-	-	1.288
	Left	0.123	-	0.057	0.281	0.461		Left	-	-	0.057	0.281	0.338
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n25 (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n25 (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.307	0.551	0.033	1.103	See Note 2	Hotspot SAR	Back	0.831	0.551	0.033	1.103	See Note 2
	Front	0.279	0.433	0.028	0.216	0.956		Front	0.687	0.433	0.028	0.216	1.364
	Top	-	-	0.031	0.381	0.412		Top	-	-	0.031	0.381	0.412
	Bottom	0.153	0.243	-	-	0.396		Bottom	1.047	0.243	-	-	1.290
	Right	0.147	1.100	-	-	1.247		Right	-	1.100	-	-	1.100
	Left	-	-	0.057	0.281	0.338		Left	0.194	-	0.057	0.281	0.532
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n41 (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n41 (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.641	0.660	0.033	1.103	See Note 2	Hotspot SAR	Back	0.831	0.660	0.033	1.103	See Note 2
	Front	0.747	0.054	0.028	0.216	1.045		Front	0.687	0.054	0.028	0.216	0.985
	Top	-	-	0.031	0.381	0.412		Top	-	-	0.031	0.381	0.412
	Bottom	1.000	-	-	-	1.000		Bottom	1.047	-	-	-	1.047
	Right	-	0.278	-	-	0.278		Right	-	0.278	-	-	0.278
	Left	0.123	-	0.057	0.281	0.461		Left	0.194	-	0.057	0.281	0.532

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.
2. Please see Appendix I.2 for detailed simultaneous transmission analysis.

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H.6 Phablet Simultaneous Transmission Analysis

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore, no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Table H-19
Simultaneous Transmission Scenario with 5 GHz WLAN SISO (Phablet)

Simult Tx		Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR	Simult Tx		Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
			1	2	3	1+2	1+3	1+2				1	2	3	1+2	1+3
Phablet SAR	Back		2.930	1.830	0.882	See Note 1	3.812	0.07	Phablet SAR	Back		1.799	1.830	0.882	3.629	2.681
	Front		1.730	0.315	0.488	2.045	2.218	N/A		Front		1.719	0.315	0.488	2.034	2.207
	Top		-	1.830*	0.882*	1.830	0.882	N/A		Top		-	1.830*	0.882*	1.830	0.882
	Bottom		3.366	-	-	3.366	3.366	N/A		Bottom		2.171	-	-	2.171	2.171
Left			0.383	0.471	0.327	0.854	0.710	N/A	Left			0.426	0.471	0.327	0.897	0.753

Simult Tx		Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR	Simult Tx		Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR
			1	2	3	1+2	1+3	1+2				1	2	3	1+2	1+3	1+2
Phablet SAR	Back		2.820	1.830	0.882	See Note 1	3.702	0.07	Phablet SAR	Back		3.025	1.830	0.882	See Note 1	3.907	0.07
	Front		1.923	0.315	0.488	2.238	2.411	N/A		Front		2.833	0.315	0.488	3.148	3.321	N/A
	Top		-	1.830*	0.882*	1.830	0.882	N/A		Top		-	1.830*	0.882*	1.830	0.882	N/A
	Bottom		3.060	-	-	3.060	3.060	N/A		Bottom		2.637	-	-	2.637	2.637	N/A
Left			0.381	0.471	0.327	0.852	0.708	N/A	Left			0.781	0.471	0.327	1.252	1.108	N/A

Simult Tx		Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR	Simult Tx		Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR
			1	2	3	1+2	1+3	1+2				1	2	3	1+2	1+3	1+2
Phablet SAR	Back		2.880	1.830	0.882	See Note 1	3.762	0.07	Phablet SAR	Back		2.230	1.830	0.882	See Note 1	3.112	0.06
	Front		2.396	0.315	0.488	2.711	2.884	N/A		Front		2.486	0.315	0.488	2.801	2.974	N/A
	Top		-	1.830*	0.882*	1.830	0.882	N/A		Top		-	1.830*	0.882*	1.830	0.882	N/A
	Bottom		2.950	-	-	2.950	2.950	N/A		Bottom		2.938	-	-	2.938	2.938	N/A
Left			0.411	0.471	0.327	0.882	0.738	N/A	Left			0.289	0.471	0.327	0.760	0.616	N/A

Simult Tx		Configuration	NR Band n66 Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR	Simult Tx		Configuration	NR Band n25 Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR	
			1	2	3	1+2	1+3	1+2				1	2	3	1+2	1+3	1+2	
Phablet SAR	Back		2.896	1.830	0.882	See Note 1	3.778	0.07	Phablet SAR	Back		3.344	1.830	0.882	See Note 1	See Note 1	0.08	0.06
	Front		3.196	0.315	0.488	3.511	3.684	N/A		Front		2.027	0.315	0.488	2.342	2.515	N/A	N/A
	Top		-	1.830*	0.882*	1.830	0.882	N/A		Top		-	1.830*	0.882*	1.830	0.882	N/A	N/A
	Bottom		2.817	-	-	2.817	2.817	N/A		Bottom		3.462	-	-	3.462	3.462	N/A	N/A
Left			1.023	0.471	0.327	1.494	1.350	N/A	Left			0.512	0.471	0.327	0.983	0.839	N/A	N/A

Simult Tx		Configuration	NR Band n66 Ant 3 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR	Simult Tx		Configuration	NR Band n25 Ant 3 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		SPLSR
			1	2	3	1+2	1+3	1+2				1	2	3	1+2	1+3	1+2
Phablet SAR	Back		2.444	1.830	0.882	See Note 1	3.326	0.07	Phablet SAR	Back		1.994	1.830	0.882	3.824	2.876	
	Front		2.262	0.315	0.488	2.577	2.750	N/A		Front		2.220	0.315	0.488	2.535	2.708	
	Top		-	1.830*	0.882*	1.830	0.882	N/A		Top		-	1.830*	0.882*	1.830	0.882	
	Bottom		0.545	-	-	0.545	0.545	N/A		Bottom		0.665	-	-	0.665	0.665	
	Right		3.269	-	-	3.269	3.269	N/A		Right		2.991	-	-	2.991	2.991	
	Left		-	0.471	0.327	0.471	0.327	N/A		Left		-	0.471	0.327	0.471	0.327	

Simult Tx		Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n66 (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		Simult Tx		Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n25 (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
			1	2	3	4	1+2+3	1+2+4				1	2	3	4	1+2+3	1+2+4
Phablet SAR	Back		2.880	2.444	1.830	0.882	See Note 2	See Note 2	Phablet SAR	Back		3.025	1.994	1.830	0.882	See Note 2	See Note 2
	Front		2.396	2.262	0.315	0.488	See Note 2	See Note 2		Front		2.833	2.220	0.315	0.488	See Note 2	See Note 2
	Top		-	-	1.830*	0.882*	1.830	0.882		Top		-	-	1.830*	0.882*	1.830	0.882
	Bottom		2.950	0.545	-	-	3.495	3.495		Bottom		2.637	0.665	-	-	3.302	3.302
	Right		-	3.269	-	-	3.269	3.269		Right		-	2.991	-	-	2.991	2.991
	Left		0.411	-	0.471	0.327	0.882	0.738		Left		0.781	-	0.471	0.327	1.252	1.108

Notes:

1. No evaluation was performed to determine the aggregate 10g SAR for these configurations as the SPLS ratio

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between the antenna pairs was not greater than 0.10 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.

2. Please see Appendix I.2 for detailed simultaneous transmission analysis.

Table H-20
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Phablet)

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2	1+2			1	2	1+2	
Phablet SAR	Back	2.930	2.071	See Note 1	0.08	Phablet SAR	Back	1.799	2.071	3.870	
	Front	1.730	0.782	2.512	N/A		Front	1.719	0.782	2.501	
	Top	-	2.071*	2.071	N/A		Top	-	2.071*	2.071	
	Bottom	3.366	-	3.366	N/A		Bottom	2.171	-	2.171	
	Left	0.383	0.743	1.126	N/A		Left	0.426	0.743	1.169	

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2			1	2	1+2	1+2
Phablet SAR	Back	2.820	2.071	See Note 1	0.07	Phablet SAR	Back	3.025	2.071	See Note 1	0.07
	Front	1.923	0.782	2.705	N/A		Front	2.833	0.782	3.615	N/A
	Top	-	2.071*	2.071	N/A		Top	-	2.071*	2.071	N/A
	Bottom	3.060	-	3.060	N/A		Bottom	2.637	-	2.637	N/A
	Left	0.381	0.743	1.124	N/A		Left	0.781	0.743	1.524	N/A

Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2			1	2	1+2	1+2
Phablet SAR	Back	2.880	2.071	See Note 1	0.07	Phablet SAR	Back	2.230	2.071	See Note 1	0.06
	Front	2.396	0.782	3.178	N/A		Front	2.486	0.782	3.268	N/A
	Top	-	2.071*	2.071	N/A		Top	-	2.071*	2.071	N/A
	Bottom	2.950	-	2.950	N/A		Bottom	2.938	-	2.938	N/A
	Left	0.411	0.743	1.154	N/A		Left	0.289	0.743	1.032	N/A

Simult Tx	Configuration	NR Band n66 Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	NR Band n25 Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2			1	2	1+2	1+2
Phablet SAR	Back	2.896	2.071	See Note 1	0.08	Phablet SAR	Back	3.344	2.071	See Note 1	0.09
	Front	3.196	0.782	3.978	N/A		Front	2.027	0.782	2.809	N/A
	Top	-	2.071*	2.071	N/A		Top	-	2.071*	2.071	N/A
	Bottom	2.817	-	2.817	N/A		Bottom	3.462	-	3.462	N/A
	Left	1.023	0.743	1.766	N/A		Left	0.512	0.743	1.255	N/A

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Simult Tx	Configuration	NR Band n25 Ant 3 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2
Phablet SAR	Back	1.994	2.071	See Note 1	0.07
	Front	2.220	0.782	3.002	N/A
	Top	-	2.071*	2.071	N/A
	Bottom	0.665	-	0.665	N/A
	Right	2.991	-	2.991	N/A
	Left	-	0.743	0.743	N/A

Simult Tx	Configuration	NR Band n66 Ant 3 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2
Phablet SAR	Back	2.444	2.071	See Note 1	0.08
	Front	2.262	0.782	3.044	N/A
	Top	-	2.071*	2.071	N/A
	Bottom	0.545	-	0.545	N/A
	Right	3.269	-	3.269	N/A
	Left	-	0.743	0.743	N/A

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n66 (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Phablet SAR	Back	2.880	2.444	2.071	See Note 2
	Front	2.396	2.262	0.782	See Note 2
	Top	-	-	2.071*	2.071
	Bottom	2.950	0.545	-	3.495
	Right	-	3.269	-	3.269
	Left	0.411	-	0.743	1.154

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n25 (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Phablet SAR	Back	3.025	1.994	2.071	See Note 2
	Front	2.833	2.220	0.782	See Note 2
	Top	-	-	2.071*	2.071
	Bottom	2.637	0.665	-	3.302
	Right	-	2.991	-	2.991
	Left	0.781	-	0.743	1.524

Notes:

1. No evaluation was performed to determine the aggregate 10g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.10 per FCC KDB 447498 D01v06. See Appendix I.1 for detailed SPLS ratio analysis.
2. Please see Appendix I.2 for detailed simultaneous transmission analysis.

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APPENDIX I SPLSR ANALYSIS & JUSTIFICATION

I.1 SPLSR Evaluation and Analysis

Per FCC KDB Publication 447498 D01v06, when the sum of the standalone transmitters is more than 1.6 W/kg for 1g and 4 W/kg for 10g, the SAR sum to peak locations can be analyzed to determine SAR distribution overlaps. When the SAR peak to location ratio (shown below) for each pair of antennas is ≤ 0.04 for 1g and ≤ 0.10 for 10g, simultaneous SAR evaluation is not required. The distance between the transmitters was calculated using the following formula.

$$\text{Distance}_{\text{Tx1} - \text{Tx2}} = R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2} \text{ (Body-Worn, Hotspot, Phablet)}$$

$$\text{SPLS Ratio} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{R_i}$$

Note:

1. LTE B25 SAR additionally represents LTE B2 Ant 2 since their transmission frequency ranges are overlapped and they share the same transmission path and signal characteristics.
2. NR Band n41 PC2 standalone SAR data additionally represents n41 PC3 in EN-DC since they share the same transmission path and signal characteristics.

I.2.1 Body-Worn Back Side SPLSR Evaluation and Analysis

Table I-1
Peak SAR Locations for Body-Worn Back Side

Mode/Band	x (mm)	y (mm)	Reported SAR (W/kg)
Max 2.4 GHz WLAN Ant 1	12.20	56.40	0.230
Red 2.4 GHz WLAN Ant 1	9.80	57.60	0.069
Red 2.4 GHz WLAN Ant 2	-7.00	82.80	0.076
2.4 GHz WLAN MIMO	-5.80	84.00	0.511
Max 5 GHz WLAN Ant 1	-1.00	64.00	0.931
Max 5 GHz WLAN Ant 2	-13.00	76.00	0.416
Red 5 GHz WLAN Ant 1	0.00	66.00	0.569
Red 5 GHz WLAN Ant 2	-9.00	75.00	0.204
5 GHz WLAN MIMO	-5.00	61.00	1.103
Bluetooth	5.00	56.60	0.033
CDMA BC0 (§22H)	-53.50	-61.50	0.507
PCS CDMA	0.50	-83.00	0.728
GPRS 850	-50.50	-57.00	0.662
UMTS 850	-53.50	-57.00	0.555
UMTS 1750	-7.30	-86.10	0.908
UMTS 1900	-1.00	-78.00	0.702
LTE Band 12	-50.50	-55.00	0.307
LTE Band 26 (Cell)	-50.50	-60.00	0.510
LTE Band 66 (AWS) Ant 2	-9.00	-88.00	1.080
LTE Band 66 (AWS) Ant 3	-64.00	-30.00	0.352
LTE Band 25 (PCS)	0.50	-84.50	0.584
LTE Band 2 (PCS) Ant 3	-51.50	-30.00	0.403
LTE Band 41	-26.40	-84.00	0.492
NR Band n71	-50.50	-55.00	0.427
NR Band n66 Ant 2	-8.50	-87.00	1.194
NR Band n66 Ant 3	-65.50	-36.50	0.777
NR Band n25 Ant 2	7.00	-82.50	0.826
NR Band n25 Ant 3	-57.50	-39.50	0.792
NR Band n41	-53.60	39.60	0.660

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Table I-2
Body-Worn Back Side SAR to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	(a+b) ^{1.5} /D _{a-b}	
NR Band n71	LTE Band 66 (AWS) Ant 2	0.427	1.080	1.507	53.02	0.03	1
Red 5 GHz WLAN Ant 1	NR Band n71	0.569	0.427	0.996	131.12	0.01	
Red 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.569	1.080	1.649	154.26	0.01	
Red 5 GHz WLAN Ant 1	Bluetooth	0.569	0.033	0.602	10.65	0.04	
Red 5 GHz WLAN Ant 2	Bluetooth	0.204	0.033	0.237	23.12	0.00	
Red 5 GHz WLAN Ant 2	NR Band n71	0.204	0.427	0.631	136.46	0.00	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	1.080	1.284	163.00	0.01	
Bluetooth	NR Band n71	0.033	0.427	0.46	124.64	0.00	
Bluetooth	LTE Band 66 (AWS) Ant 2	0.033	1.080	1.113	145.28	0.01	2
NR Band n25 Ant 3	LTE Band 66 (AWS) Ant 2	0.792	1.080	1.872	68.59	0.04	
Red 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.569	1.080	1.649	154.26	0.01	
Red 5 GHz WLAN Ant 1	NR Band n25 Ant 3	0.569	0.792	1.361	120.15	0.01	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	1.080	1.284	163.00	0.01	
Red 5 GHz WLAN Ant 2	NR Band n25 Ant 3	0.204	0.792	0.996	124.35	0.01	
Bluetooth	Red 5 GHz WLAN Ant 1	0.033	0.569	0.602	10.65	0.04	
Bluetooth	Red 5 GHz WLAN Ant 2	0.033	0.204	0.237	23.12	0.00	
Bluetooth	LTE Band 66 (AWS) Ant 2	0.033	1.080	1.113	145.28	0.01	3
Bluetooth	NR Band n25 Ant 3	0.033	0.792	0.825	114.64	0.01	
5 GHz WLAN MIMO	NR Band n25 Ant 3	1.103	0.792	1.895	113.39	0.02	
5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.103	1.080	2.183	149.05	0.02	
NR Band n25 Ant 3	LTE Band 66 (AWS) Ant 2	0.792	1.080	1.872	68.59	0.04	4
NR Band n41	LTE Band 66 (AWS) Ant 2	0.660	1.080	1.74	135.17	0.02	
Red 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.569	1.080	1.649	154.26	0.01	
Red 5 GHz WLAN Ant 1	NR Band n41	0.569	0.660	1.229	59.75	0.02	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	1.080	1.284	163.00	0.01	
Red 5 GHz WLAN Ant 2	NR Band n41	0.204	0.660	0.864	56.94	0.01	
Bluetooth	Red 5 GHz WLAN Ant 1	0.033	0.569	0.602	10.65	0.04	
Bluetooth	Red 5 GHz WLAN Ant 2	0.033	0.204	0.237	23.12	0.00	
Bluetooth	LTE Band 66 (AWS) Ant 2	0.033	1.080	1.113	145.28	0.01	5
Bluetooth	NR Band n41	0.033	0.660	0.693	61.02	0.01	
5 GHz WLAN MIMO	NR Band n41	1.103	0.660	1.763	53.10	0.04	
5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.103	1.080	2.183	149.05	0.02	
NR Band n41	LTE Band 66 (AWS) Ant 2	0.660	1.080	1.74	135.17	0.02	
Max 2.4 GHz WLAN Ant 1	Max 5 GHz WLAN Ant 2	0.230	0.416	0.646	31.92	0.02	
Max 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.230	1.080	1.31	145.95	0.01	
Max 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.416	1.080	1.496	164.05	0.01	
Max 5 GHz WLAN Ant 2	Bluetooth	0.416	0.033	0.449	26.46	0.01	
Max 5 GHz WLAN Ant 2	NR Band n66 Ant 2	0.416	1.194	1.61	163.06	0.01	
Bluetooth	NR Band n66 Ant 2	0.033	1.194	1.227	144.23	0.01	
Red 2.4 GHz WLAN Ant 1	Red 2.4 GHz WLAN Ant 2	0.069	0.076	0.145	30.29	0.00	
Red 2.4 GHz WLAN Ant 1	NR Band n25 Ant 3	0.069	0.792	0.861	118.14	0.01	
Red 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.069	1.080	1.149	146.81	0.01	
Red 2.4 GHz WLAN Ant 2	NR Band n25 Ant 3	0.076	0.792	0.868	132.32	0.01	
Red 2.4 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.076	1.080	1.156	170.81	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n25 Ant 3	1.080	0.792	1.872	68.59	0.04	
Red 2.4 GHz WLAN Ant 1	Red 2.4 GHz WLAN Ant 2	0.069	0.076	0.145	30.29	0.00	
Red 2.4 GHz WLAN Ant 1	NR Band n71	0.069	0.427	0.496	127.73	0.00	
Red 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.069	1.080	1.149	146.81	0.01	
Red 2.4 GHz WLAN Ant 2	NR Band n71	0.076	0.427	0.503	144.50	0.00	
Red 2.4 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.076	1.080	1.156	170.81	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n71	1.080	0.427	1.507	53.02	0.03	

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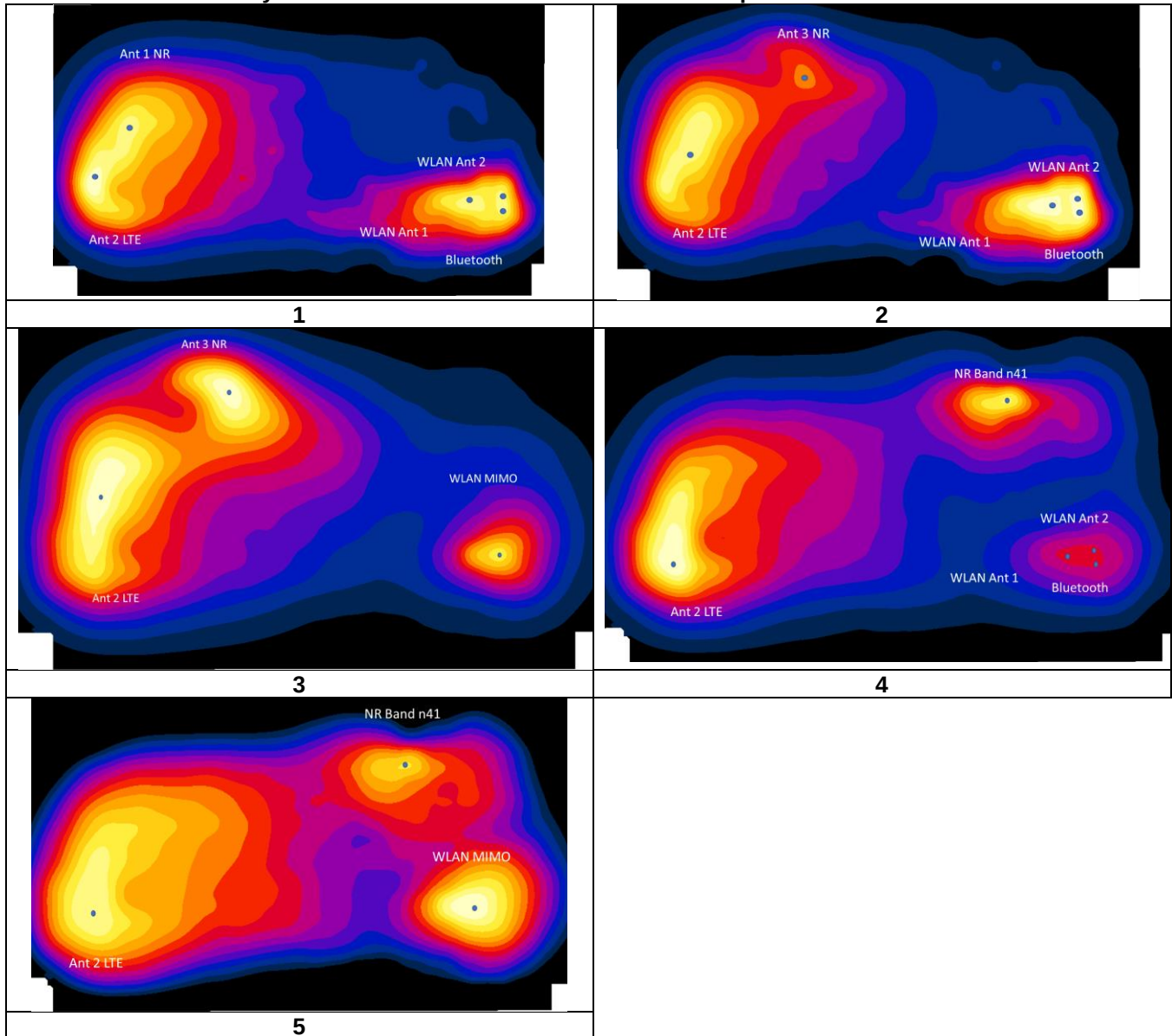
Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	(a+b) ^{1.5} /D _{a-b}	
Red 2.4 GHz WLAN Ant 1	Red 2.4 GHz WLAN Ant 2	0.069	0.076	0.145	30.29	0.00	
Red 2.4 GHz WLAN Ant 1	NR Band n41	0.069	0.660	0.729	65.91	0.01	
Red 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.069	1.080	1.149	146.81	0.01	
Red 2.4 GHz WLAN Ant 2	NR Band n41	0.076	0.660	0.736	63.54	0.01	
Red 2.4 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.076	1.080	1.156	170.81	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n41	1.080	0.660	1.74	135.17	0.02	
Max 5 GHz WLAN Ant 1	PCS CDMA	0.931	0.728	1.659	147.01	0.01	
Max 5 GHz WLAN Ant 1	UMTS 1750	0.931	0.908	1.839	150.23	0.02	
Max 5 GHz WLAN Ant 1	UMTS 1900	0.931	0.702	1.633	142.00	0.01	
Max 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.931	1.080	2.011	152.21	0.02	
Max 5 GHz WLAN Ant 1	NR Band n66 Ant 2	0.931	1.194	2.125	151.19	0.02	
Max 5 GHz WLAN Ant 1	NR Band n66 Ant 3	0.931	0.777	1.708	119.42	0.02	
Max 5 GHz WLAN Ant 1	NR Band n25 Ant 2	0.931	0.826	1.757	146.72	0.02	
Max 5 GHz WLAN Ant 1	NR Band n25 Ant 3	0.931	0.792	1.723	117.92	0.02	
Max 5 GHz WLAN Ant 2	NR Band n66 Ant 2	0.416	1.194	1.61	163.06	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n25 Ant 3	1.080	0.792	1.872	68.59	0.04	
Red 2.4 GHz WLAN Ant 2	Bluetooth	0.076	0.033	0.109	28.82	0.00	
Red 2.4 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.076	1.080	1.156	170.81	0.01	
Red 2.4 GHz WLAN Ant 2	NR Band n25 Ant 3	0.076	0.792	0.868	132.32	0.01	
Bluetooth	LTE Band 66 (AWS) Ant 2	0.033	1.080	1.113	145.28	0.01	
Bluetooth	NR Band n25 Ant 3	0.033	0.792	0.825	114.64	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n71	1.080	0.427	1.507	53.02	0.03	
Red 2.4 GHz WLAN Ant 2	Bluetooth	0.076	0.033	0.109	28.82	0.00	
Red 2.4 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.076	1.080	1.156	170.81	0.01	
Red 2.4 GHz WLAN Ant 2	NR Band n71	0.076	0.427	0.503	144.50	0.00	
Bluetooth	LTE Band 66 (AWS) Ant 2	0.033	1.080	1.113	145.28	0.01	
Bluetooth	NR Band n71	0.033	0.427	0.46	124.64	0.00	
LTE Band 66 (AWS) Ant 2	NR Band n41	1.080	0.660	1.74	135.17	0.02	
Red 2.4 GHz WLAN Ant 2	Bluetooth	0.076	0.033	0.109	28.82	0.00	
Red 2.4 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.076	1.080	1.156	170.81	0.01	
Red 2.4 GHz WLAN Ant 2	NR Band n41	0.076	0.660	0.736	63.54	0.01	
Bluetooth	LTE Band 66 (AWS) Ant 2	0.033	1.080	1.113	145.28	0.01	
Bluetooth	NR Band n41	0.033	0.660	0.693	61.02	0.01	
2.4 GHz WLAN MIMO	NR Band n66 Ant 2	0.511	1.194	1.705	171.02	0.01	
Red 2.4 GHz WLAN Ant 1	Red 5 GHz WLAN Ant 2	0.069	0.204	0.273	25.62	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n25 Ant 3	1.080	0.792	1.872	68.59	0.04	
Red 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.069	1.080	1.149	146.81	0.01	
Red 2.4 GHz WLAN Ant 1	NR Band n25 Ant 3	0.069	0.792	0.861	118.14	0.01	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	1.080	1.284	163.00	0.01	
Red 5 GHz WLAN Ant 2	NR Band n25 Ant 3	0.204	0.792	0.996	124.35	0.01	
Red 2.4 GHz WLAN Ant 1	Red 5 GHz WLAN Ant 2	0.069	0.204	0.273	25.62	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n71	1.080	0.427	1.507	53.02	0.03	
Red 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.069	1.080	1.149	146.81	0.01	
Red 2.4 GHz WLAN Ant 1	NR Band n71	0.069	0.427	0.496	127.73	0.00	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	1.080	1.284	163.00	0.01	
Red 5 GHz WLAN Ant 2	NR Band n71	0.204	0.427	0.631	136.46	0.00	
Red 2.4 GHz WLAN Ant 1	Red 5 GHz WLAN Ant 2	0.069	0.204	0.273	25.62	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n41	1.080	0.660	1.74	135.17	0.02	
Red 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.069	1.080	1.149	146.81	0.01	
Red 2.4 GHz WLAN Ant 1	NR Band n41	0.069	0.660	0.729	65.91	0.01	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	1.080	1.284	163.00	0.01	
Red 5 GHz WLAN Ant 2	NR Band n41	0.204	0.660	0.864	56.94	0.01	
Red 2.4 GHz WLAN Ant 1	Red 5 GHz WLAN Ant 2	0.069	0.204	0.273	25.62	0.01	
LTE Band 25 (PCS)	NR Band n66 Ant 3	0.584	0.777	1.361	81.61	0.02	
Red 2.4 GHz WLAN Ant 1	NR Band n66 Ant 3	0.069	0.777	0.846	120.52	0.01	
Red 2.4 GHz WLAN Ant 1	LTE Band 25 (PCS)	0.069	0.584	0.653	142.40	0.00	
Red 5 GHz WLAN Ant 2	NR Band n66 Ant 3	0.204	0.777	0.981	125.00	0.01	
Red 5 GHz WLAN Ant 2	LTE Band 25 (PCS)	0.204	0.584	0.788	159.78	0.00	

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Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	(a+b) ^{1.5} /D _{a-b}	
LTE Band 2 (PCS) Ant 3	LTE Band 12	0.403	0.307	0.71	25.02	0.02	
Max 5 GHz WLAN Ant 1	LTE Band 12	0.931	0.307	1.238	128.88	0.01	
Max 5 GHz WLAN Ant 1	LTE Band 2 (PCS) Ant 3	0.931	0.403	1.334	106.71	0.01	
5 GHz WLAN MIMO	LTE Band 12	1.103	0.307	1.41	124.60	0.01	
5 GHz WLAN MIMO	LTE Band 2 (PCS) Ant 3	1.103	0.403	1.506	102.19	0.02	
LTE Band 12	LTE Band 2 (PCS) Ant 3	0.307	0.403	0.71	25.02	0.02	
5 GHz WLAN MIMO	LTE Band 12	1.103	0.307	1.41	124.60	0.01	
5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 3	1.103	0.352	1.455	108.45	0.02	
LTE Band 12	LTE Band 66 (AWS) Ant 3	0.307	0.352	0.659	28.41	0.02	
LTE Band 25 (PCS)	NR Band n71	0.584	0.427	1.011	58.92	0.02	
Red 5 GHz WLAN Ant 1	NR Band n71	0.569	0.427	0.996	131.12	0.01	
Red 5 GHz WLAN Ant 1	LTE Band 25 (PCS)	0.569	0.584	1.153	150.50	0.01	
Red 5 GHz WLAN Ant 1	Bluetooth	0.569	0.033	0.602	10.65	0.04	
Bluetooth	NR Band n71	0.033	0.427	0.46	124.64	0.00	
Bluetooth	LTE Band 25 (PCS)	0.033	0.584	0.617	141.17	0.00	
Max 2.4 GHz WLAN Ant 1	Max 5 GHz WLAN Ant 2	0.230	0.416	0.646	31.92	0.02	
Max 2.4 GHz WLAN Ant 1	NR Band n66 Ant 2	0.230	1.194	1.424	144.89	0.01	
Max 5 GHz WLAN Ant 2	NR Band n66 Ant 2	0.416	1.194	1.61	163.06	0.01	
5 GHz WLAN MIMO	CDMA BC0 (\$22H)	1.103	0.507	1.61	131.75	0.02	
5 GHz WLAN MIMO	PCS CDMA	1.103	0.728	1.831	144.10	0.02	
5 GHz WLAN MIMO	GPRS 850	1.103	0.662	1.765	126.47	0.02	
5 GHz WLAN MIMO	UMTS 850	1.103	0.555	1.658	127.58	0.02	
5 GHz WLAN MIMO	UMTS 1750	1.103	0.908	2.011	147.12	0.02	
5 GHz WLAN MIMO	UMTS 1900	1.103	0.702	1.805	139.06	0.02	
5 GHz WLAN MIMO	LTE Band 26 (Cell)	1.103	0.510	1.613	129.27	0.02	
5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.103	1.080	2.183	149.05	0.02	
5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.103	0.584	1.687	145.60	0.02	
5 GHz WLAN MIMO	LTE Band 41	1.103	0.492	1.595	146.57	0.01	
5 GHz WLAN MIMO	NR Band n66 Ant 2	1.103	1.194	2.297	148.04	0.02	
5 GHz WLAN MIMO	NR Band n66 Ant 3	1.103	0.777	1.88	114.75	0.02	
5 GHz WLAN MIMO	NR Band n25 Ant 2	1.103	0.826	1.929	144.00	0.02	
5 GHz WLAN MIMO	NR Band n25 Ant 3	1.103	0.792	1.895	113.39	0.02	
5 GHz WLAN MIMO	NR Band n71	1.103	0.427	1.53	124.60	0.02	
5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.103	1.080	2.183	149.05	0.02	
NR Band n71	LTE Band 66 (AWS) Ant 2	0.427	1.080	1.507	53.02	0.03	
5 GHz WLAN MIMO	NR Band n71	1.103	0.427	1.53	124.60	0.02	
5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.103	0.584	1.687	145.60	0.02	
NR Band n71	LTE Band 25 (PCS)	0.427	0.584	1.011	58.92	0.02	
5 GHz WLAN MIMO	NR Band n66 Ant 3	1.103	0.777	1.88	114.75	0.02	
5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.103	0.584	1.687	145.60	0.02	
NR Band n66 Ant 3	LTE Band 25 (PCS)	0.777	0.584	1.361	81.61	0.02	
Red 5 GHz WLAN Ant 1	Bluetooth	0.569	0.033	0.602	10.65	0.04	
Red 5 GHz WLAN Ant 1	NR Band n41	0.569	0.660	1.229	59.75	0.02	
Red 5 GHz WLAN Ant 1	LTE Band 25 (PCS)	0.569	0.584	1.153	150.50	0.01	
Bluetooth	NR Band n41	0.033	0.660	0.693	61.02	0.01	
Bluetooth	LTE Band 25 (PCS)	0.033	0.584	0.617	141.17	0.00	
LTE Band 25 (PCS)	NR Band n41	0.584	0.660	1.244	135.38	0.01	
5 GHz WLAN MIMO	NR Band n41	1.103	0.660	1.763	53.10	0.04	
5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.103	0.584	1.687	145.60	0.02	
NR Band n41	LTE Band 25 (PCS)	0.660	0.584	1.244	135.38	0.01	
LTE Band 25 (PCS)	NR Band n66 Ant 3	0.584	0.777	1.361	81.61	0.02	
Red 5 GHz WLAN Ant 1	Bluetooth	0.569	0.033	0.602	10.65	0.04	
Red 5 GHz WLAN Ant 1	LTE Band 25 (PCS)	0.569	0.584	1.153	150.50	0.01	
Red 5 GHz WLAN Ant 1	NR Band n66 Ant 3	0.569	0.777	1.346	121.64	0.01	
Bluetooth	LTE Band 25 (PCS)	0.033	0.584	0.617	141.17	0.00	
Bluetooth	NR Band n66 Ant 3	0.033	0.777	0.81	116.78	0.01	
Bluetooth	Red 5 GHz WLAN Ant 2	0.033	0.204	0.237	23.12	0.00	
Red 5 GHz WLAN Ant 2	LTE Band 25 (PCS)	0.204	0.584	0.788	159.78	0.00	
Red 5 GHz WLAN Ant 2	NR Band n66 Ant 3	0.204	0.777	0.981	125.00	0.01	

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Table I-3
Body-Worn Back Side SAR to Peak Location Separation Ratio Plots



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I.2.2 Hotspot Back Side SPLSR Evaluation and Analysis

Table I-4
Peak SAR Locations for Hotspot Back Side

Mode/Band	x (mm)	y (mm)	Reported SAR (W/kg)
Red 2.4 GHz WLAN Ant 1	9.80	57.60	0.069
Red 2.4 GHz WLAN Ant 2	-7.00	82.80	0.076
Bluetooth	5.00	56.60	0.033
Max 5 GHz WLAN Ant 1	-1.00	64.00	0.931
Red 5 GHz WLAN Ant 1	0.00	66.00	0.569
Red 5 GHz WLAN Ant 2	-9.00	75.00	0.204
5 GHz WLAN MIMO	-5.00	61.00	1.103
EVDO BC10 (\$90S)	-50.50	-57.00	0.494
EVDO BC0 (\$22H)	-52.00	-58.50	0.571
PCS EVDO	-12.50	-82.50	0.590
GPRS 850	-50.50	-57.00	0.662
UMTS 850	-53.50	-57.00	0.555
UMTS 1750	-10.00	-87.00	0.529
UMTS 1900	7.00	-82.50	0.622
LTE Band 12	-50.50	-55.00	0.307
LTE Band 26 (Cell)	-50.50	-60.00	0.510
LTE Band 66 (AWS) Ant 2	-23.50	-75.00	0.831
LTE Band 66 (AWS) Ant 3	-64.00	-30.00	0.352
LTE Band 25 (PCS)	-27.50	-83.00	0.641
LTE Band 2 (PCS) Ant 3	-51.50	-30.00	0.403
NR Band n71	-50.50	-55.00	0.427
NR Band n66 Ant 2	-23.50	-80.00	0.856
NR Band n66 Ant 3	-64.00	-30.00	0.527
NR Band n25 Ant 2	-15.50	-85.50	0.687
NR Band n25 Ant 3	-70.00	-33.50	0.551
NR Band n41	-53.60	39.60	0.660

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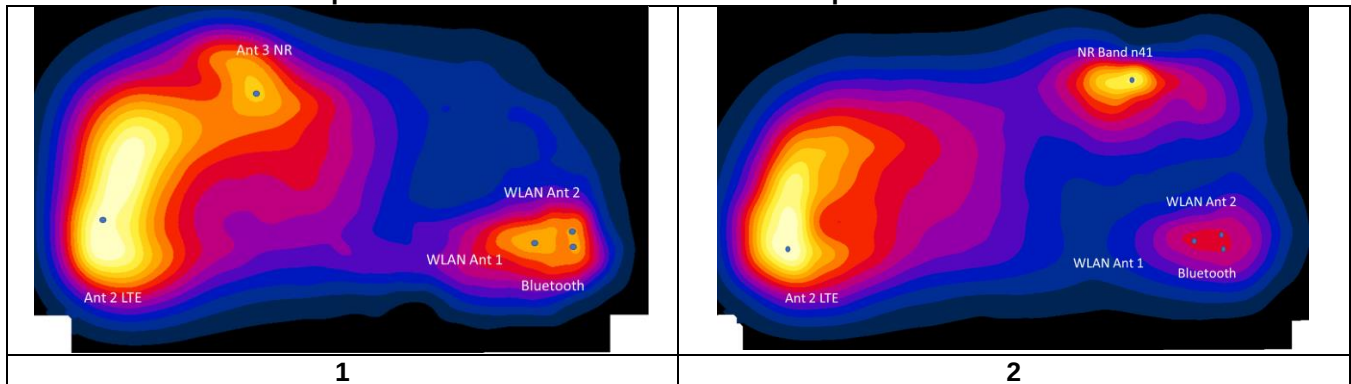
Table I-5
Hotspot Back Side SAR to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D_{a+b}	$(a+b)^{1.5}/D_{a+b}$	
NR Band n25 Ant 3	LTE Band 66 (AWS) Ant 2	0.551	0.831	1.382	62.33	0.03	1
Red 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.569	0.831	1.4	142.94	0.01	
Red 5 GHz WLAN Ant 1	NR Band n25 Ant 3	0.569	0.551	1.12	121.66	0.01	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	0.831	1.035	150.70	0.01	
Red 5 GHz WLAN Ant 2	NR Band n25 Ant 3	0.204	0.551	0.755	124.47	0.01	
Bluetooth	Red 5 GHz WLAN Ant 1	0.033	0.569	0.602	10.65	0.04	
Bluetooth	Red 5 GHz WLAN Ant 2	0.033	0.204	0.237	23.12	0.00	
Bluetooth	LTE Band 66 (AWS) Ant 2	0.033	0.831	0.864	134.65	0.01	
Bluetooth	NR Band n25 Ant 3	0.033	0.551	0.584	117.23	0.00	
NR Band n41	LTE Band 66 (AWS) Ant 2	0.660	0.831	1.491	118.49	0.02	2
Red 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.569	0.831	1.4	142.94	0.01	
Red 5 GHz WLAN Ant 1	NR Band n41	0.569	0.660	1.229	59.75	0.02	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	0.831	1.035	150.70	0.01	
Red 5 GHz WLAN Ant 2	NR Band n41	0.204	0.660	0.864	56.94	0.01	
Bluetooth	Red 5 GHz WLAN Ant 1	0.033	0.569	0.602	10.65	0.04	
Bluetooth	Red 5 GHz WLAN Ant 2	0.033	0.204	0.237	23.12	0.00	
Bluetooth	LTE Band 66 (AWS) Ant 2	0.033	0.831	0.864	134.65	0.01	
Bluetooth	NR Band n41	0.033	0.660	0.693	61.02	0.01	
NR Band n71	LTE Band 66 (AWS) Ant 2	0.427	0.831	1.258	33.60	0.04	3
Red 5 GHz WLAN Ant 1	NR Band n71	0.569	0.427	0.996	131.12	0.01	
Red 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.569	0.831	1.4	142.94	0.01	
Bluetooth	Red 5 GHz WLAN Ant 1	0.033	0.569	0.602	10.65	0.04	
Bluetooth	LTE Band 66 (AWS) Ant 2	0.033	0.831	0.864	134.65	0.01	
Bluetooth	NR Band n71	0.033	0.427	0.46	124.64	0.00	
5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.103	0.831	1.934	137.25	0.02	4
5 GHz WLAN MIMO	NR Band n71	1.103	0.427	1.53	124.60	0.02	
NR Band n71	LTE Band 66 (AWS) Ant 2	0.427	0.831	1.258	33.60	0.04	
5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.103	0.831	1.934	137.25	0.02	
5 GHz WLAN MIMO	NR Band n41	1.103	0.660	1.763	53.10	0.04	
NR Band n41	LTE Band 66 (AWS) Ant 2	0.660	0.831	1.491	118.49	0.02	5
Red 2.4 GHz WLAN Ant 1	Red 2.4 GHz WLAN Ant 2	0.069	0.076	0.145	30.29	0.00	
Red 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.069	0.831	0.9	136.72	0.01	
Red 2.4 GHz WLAN Ant 1	NR Band n41	0.069	0.660	0.729	65.91	0.01	
Red 2.4 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.076	0.831	0.907	158.66	0.01	
Red 2.4 GHz WLAN Ant 2	NR Band n41	0.076	0.660	0.736	63.54	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n41	0.831	0.660	1.491	118.49	0.02	
NR Band n66 Ant 2	Max 5 GHz WLAN Ant 1	0.856	0.931	1.787	145.75	0.02	
NR Band n25 Ant 2	Max 5 GHz WLAN Ant 1	0.687	0.931	1.618	150.20	0.01	
LTE Band 12	LTE Band 2 (PCS) Ant 3	0.307	0.403	0.71	25.02	0.02	
Max 5 GHz WLAN Ant 1	LTE Band 12	0.931	0.307	1.238	128.88	0.01	
Max 5 GHz WLAN Ant 1	LTE Band 2 (PCS) Ant 3	0.931	0.403	1.334	106.71	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n41	0.831	0.660	1.491	118.49	0.02	
Red 2.4 GHz WLAN Ant 2	Bluetooth	0.076	0.033	0.109	28.82	0.00	
Red 2.4 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.076	0.831	0.907	158.66	0.01	
Red 2.4 GHz WLAN Ant 2	NR Band n41	0.076	0.660	0.736	63.54	0.01	
Bluetooth	LTE Band 66 (AWS) Ant 2	0.033	0.831	0.864	134.65	0.01	
Bluetooth	NR Band n41	0.033	0.660	0.693	61.02	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n41	0.831	0.660	1.491	118.49	0.02	
Red 2.4 GHz WLAN Ant 1	Red 5 GHz WLAN Ant 2	0.069	0.204	0.273	25.62	0.01	
Red 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.069	0.831	0.9	136.72	0.01	
Red 2.4 GHz WLAN Ant 1	NR Band n41	0.069	0.660	0.729	65.91	0.01	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	0.831	1.035	150.70	0.01	
Red 5 GHz WLAN Ant 2	NR Band n41	0.204	0.660	0.864	56.94	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n25 Ant 3	0.831	0.551	1.382	62.33	0.03	
Red 2.4 GHz WLAN Ant 1	Red 5 GHz WLAN Ant 2	0.069	0.204	0.273	25.62	0.01	
Red 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.069	0.831	0.9	136.72	0.01	
Red 2.4 GHz WLAN Ant 1	NR Band n25 Ant 3	0.069	0.551	0.62	121.11	0.00	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	0.831	1.035	150.70	0.01	
Red 5 GHz WLAN Ant 2	NR Band n25 Ant 3	0.204	0.551	0.755	124.47	0.01	
Red 2.4 GHz WLAN Ant 1	Red 5 GHz WLAN Ant 2	0.069	0.204	0.273	25.62	0.01	
LTE Band 66 (AWS) Ant 2	NR Band n71	0.831	0.427	1.258	33.60	0.04	
Red 2.4 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.069	0.831	0.9	136.72	0.01	
Red 2.4 GHz WLAN Ant 1	NR Band n71	0.069	0.427	0.496	127.73	0.00	
Red 5 GHz WLAN Ant 2	LTE Band 66 (AWS) Ant 2	0.204	0.831	1.035	150.70	0.01	
Red 5 GHz WLAN Ant 2	NR Band n71	0.204	0.427	0.631	136.46	0.00	
LTE Band 12	LTE Band 2 (PCS) Ant 3	0.307	0.403	0.71	25.02	0.02	
5 GHz WLAN MIMO	LTE Band 12	1.103	0.307	1.41	124.60	0.01	
5 GHz WLAN MIMO	LTE Band 2 (PCS) Ant 3	1.103	0.403	1.506	102.19	0.02	
5 GHz WLAN MIMO	LTE Band 12	1.103	0.307	1.41	124.60	0.01	
5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 3	1.103	0.352	1.455	108.45	0.02	
LTE Band 12	LTE Band 66 (AWS) Ant 3	0.307	0.352	0.659	28.41	0.02	
NR Band n66 Ant 3	LTE Band 25 (PCS)	0.527	0.641	1.168	64.35	0.02	
Red 5 GHz WLAN Ant 1	NR Band n66 Ant 3	0.569	0.527	1.096	115.38	0.01	
Red 5 GHz WLAN Ant 1	LTE Band 25 (PCS)	0.569	0.641	1.21	151.52	0.01	
Bluetooth	Red 5 GHz WLAN Ant 1	0.033	0.569	0.602	10.65	0.04	
Bluetooth	NR Band n66 Ant 3	0.033	0.527	0.56	110.73	0.00	
Bluetooth	LTE Band 25 (PCS)	0.033	0.641	0.674	143.33	0.00	
NR Band n71	LTE Band 25 (PCS)	0.427	0.641	1.068	36.24	0.03	
Red 5 GHz WLAN Ant 1	NR Band n71	0.569	0.427	0.996	131.12	0.01	
Red 5 GHz WLAN Ant 1	LTE Band 25 (PCS)	0.569	0.641	1.21	151.52	0.01	
Bluetooth	Red 5 GHz WLAN Ant 1	0.033	0.569	0.602	10.65	0.04	
Bluetooth	LTE Band 25 (PCS)	0.033	0.641	0.674	143.33	0.00	
Bluetooth	NR Band n71	0.033	0.427	0.46	124.64	0.00	

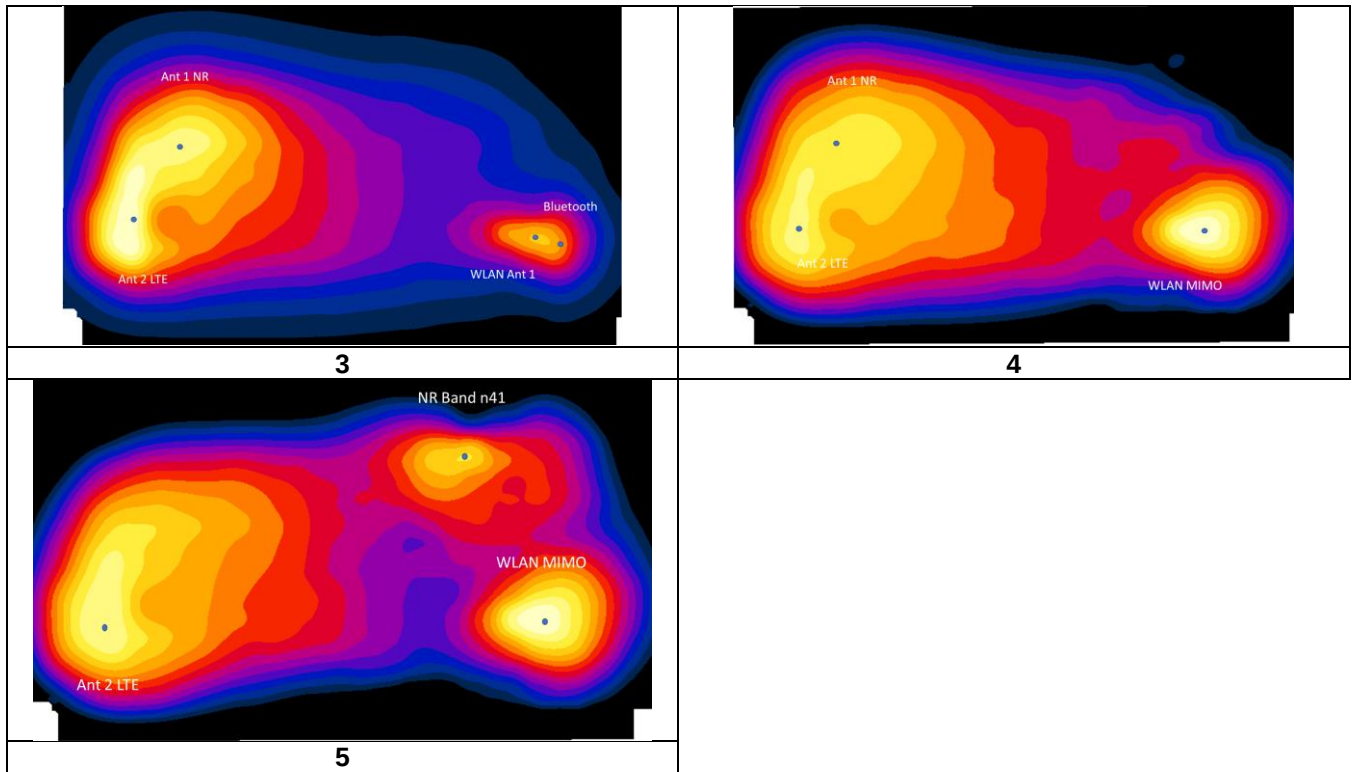
FCC ID: ZNFG900TM		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 07/01/20 - 08/17/20	DUT Type: Portable Handset			Appendix I: Page 7 of 20

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	$(a+b)^{1.5}/D_{a-b}$	
NR Band n41	LTE Band 25 (PCS)	0.660	0.641	1.301	125.35	0.01	
Red 5 GHz WLAN Ant 1	NR Band n41	0.569	0.660	1.229	59.75	0.02	
Red 5 GHz WLAN Ant 1	LTE Band 25 (PCS)	0.569	0.641	1.21	151.52	0.01	
Bluetooth	Red 5 GHz WLAN Ant 1	0.033	0.569	0.602	10.65	0.04	
Bluetooth	NR Band n41	0.033	0.660	0.693	61.02	0.01	
Bluetooth	LTE Band 25 (PCS)	0.033	0.641	0.674	143.33	0.00	
5 GHz WLAN MIMO	EVDO BC10 (§90S)	1.103	0.494	1.597	126.47	0.02	
5 GHz WLAN MIMO	EVDO BC0 (§22H)	1.103	0.571	1.674	128.41	0.02	
5 GHz WLAN MIMO	PCS EVDO	1.103	0.590	1.693	143.70	0.02	
5 GHz WLAN MIMO	GPRS 850	1.103	0.662	1.765	126.47	0.02	
5 GHz WLAN MIMO	UMTS 850	1.103	0.555	1.658	127.58	0.02	
5 GHz WLAN MIMO	UMTS 1750	1.103	0.529	1.632	148.08	0.01	
5 GHz WLAN MIMO	UMTS 1900	1.103	0.622	1.725	144.00	0.02	
5 GHz WLAN MIMO	LTE Band 26 (Cell)	1.103	0.510	1.613	129.27	0.02	
Max 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.931	0.831	1.762	140.81	0.02	
5 GHz WLAN MIMO	NR Band n66 Ant 2	1.103	0.856	1.959	142.21	0.02	
5 GHz WLAN MIMO	NR Band n25 Ant 2	1.103	0.687	1.79	146.88	0.02	
5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.103	0.641	1.744	145.75	0.02	
5 GHz WLAN MIMO	NR Band n71	1.103	0.427	1.53	124.60	0.02	
NR Band n71	LTE Band 25 (PCS)	0.427	0.641	1.068	36.24	0.03	
5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.103	0.641	1.744	145.75	0.02	
5 GHz WLAN MIMO	NR Band n66 Ant 3	1.103	0.527	1.63	108.45	0.02	
NR Band n66 Ant 3	LTE Band 25 (PCS)	0.527	0.641	1.168	64.35	0.02	
5 GHz WLAN MIMO	LTE Band 12	1.103	0.307	1.41	124.60	0.01	
5 GHz WLAN MIMO	NR Band n66 Ant 3	1.103	0.527	1.63	108.45	0.02	
NR Band n66 Ant 3	LTE Band 12	0.527	0.307	0.834	28.41	0.03	
5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.103	0.831	1.934	137.25	0.02	
5 GHz WLAN MIMO	NR Band n25 Ant 3	1.103	0.551	1.654	114.70	0.02	
NR Band n25 Ant 3	LTE Band 66 (AWS) Ant 2	0.551	0.831	1.382	62.33	0.03	
5 GHz WLAN MIMO	LTE Band 12	1.103	0.307	1.41	124.60	0.01	
5 GHz WLAN MIMO	NR Band n25 Ant 3	1.103	0.551	1.654	114.70	0.02	
NR Band n25 Ant 3	LTE Band 12	0.551	0.307	0.858	29.03	0.03	
5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.103	0.641	1.744	145.75	0.02	
5 GHz WLAN MIMO	NR Band n41	1.103	0.660	1.763	53.10	0.04	
NR Band n41	LTE Band 25 (PCS)	0.660	0.641	1.301	125.35	0.01	

Table I-6
Hotspot Back Side SAR to Peak Location Separation Ratio Plots



FCC ID: ZNFG900TM	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	 LG	Approved by: Quality Manager
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Test Dates: 07/01/20 - 08/17/20	DUT Type: Portable Handset			Appendix I: Page 9 of 20

I.2.3 Phablet Back Side SPLSR Evaluation and Analysis

Table I-7
Peak SAR Locations for Phablet Back Side

Mode/Band	x (mm)	y (mm)	Reported SAR (W/kg)
5 GHz WLAN Ant 1	-3.10	66.00	1.830
5 GHz WLAN Ant 2	-13.00	76.00	0.882
5 GHz WLAN MIMO	0.00	66.40	2.071
PCS EVDO	-28.50	-75.00	2.930
UMTS 1900	-19.00	-82.50	2.820
LTE Band 66 (AWS)	-10.00	-87.00	3.025
LTE Band 25 (PCS)	-20.50	-83.00	2.880
LTE Band 41	-11.80	-76.80	2.230
NR Band n66 Ant 2	-9.50	-80.00	2.896
NR Band n66 Ant 3	-59.50	-37.50	2.444
NR Band n25 Ant 2	-17.10	-80.60	3.344
NR Band n25 Ant 3	-51.00	-34.00	1.994

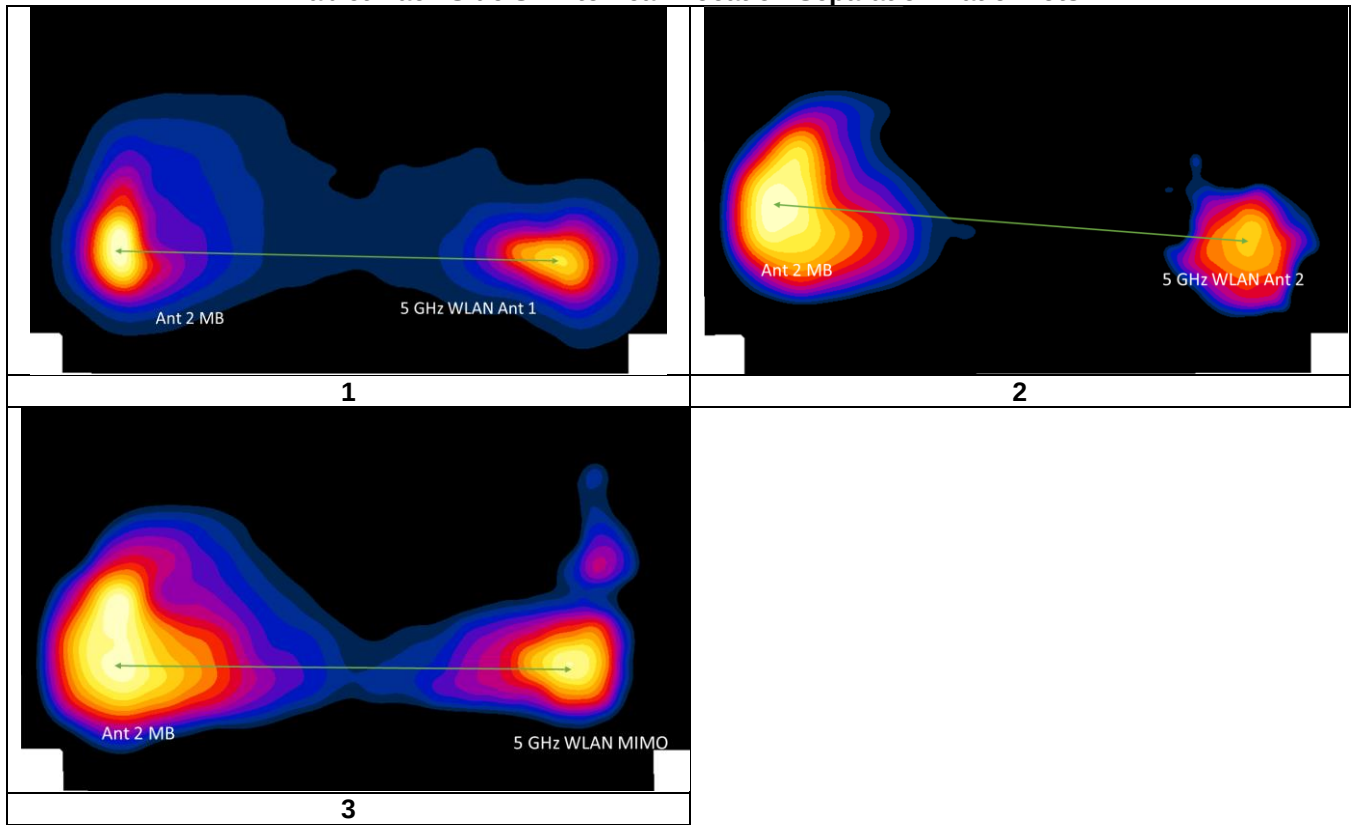
FCC ID: ZNFG900TM	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	 LG	Approved by: Quality Manager
Test Dates: 07/01/20 - 08/17/20	DUT Type: Portable Handset			Appendix I: Page 10 of 20

Table I-8
Phablet Back Side SAR to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	$(a+b)^{1.5}/D_{a-b}$	
5 GHz WLAN Ant 1	PCS EVDO	1.830	2.930	4.76	143.27	0.07	
5 GHz WLAN Ant 1	UMTS 1900	1.830	2.820	4.65	149.35	0.07	
5 GHz WLAN Ant 1	LTE Band 66 (AWS)	1.830	3.025	4.855	153.16	0.07	
5 GHz WLAN Ant 1	LTE Band 25 (PCS)	1.830	2.880	4.71	150.01	0.07	
5 GHz WLAN Ant 1	LTE Band 41	1.830	2.230	4.06	143.06	0.06	
5 GHz WLAN Ant 1	NR Band n66 Ant 2	1.830	2.896	4.726	146.14	0.07	
5 GHz WLAN Ant 1	NR Band n25 Ant 2	1.830	3.344	5.174	147.27	0.08	1
5 GHz WLAN Ant 2	NR Band n25 Ant 2	0.882	3.344	4.226	156.65	0.06	2
5 GHz WLAN Ant 1	NR Band n66 Ant 3	1.830	2.444	4.274	117.87	0.07	
5 GHz WLAN MIMO	PCS EVDO	2.071	2.930	5.001	144.24	0.08	
5 GHz WLAN MIMO	UMTS 1900	2.071	2.820	4.891	150.11	0.07	
5 GHz WLAN MIMO	LTE Band 66 (AWS)	2.071	3.025	5.096	153.73	0.07	
5 GHz WLAN MIMO	LTE Band 25 (PCS)	2.071	2.880	4.951	150.80	0.07	
5 GHz WLAN MIMO	LTE Band 41	2.071	2.230	4.301	143.69	0.06	
5 GHz WLAN MIMO	NR Band n66 Ant 2	2.071	2.896	4.967	146.71	0.08	
5 GHz WLAN MIMO	NR Band n25 Ant 2	2.071	3.344	5.415	147.99	0.09	3
5 GHz WLAN MIMO	NR Band n25 Ant 3	2.071	1.994	4.065	112.61	0.07	
5 GHz WLAN MIMO	NR Band n66 Ant 3	2.071	2.444	4.515	119.73	0.08	

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Table I-9
Phablet Back Side SAR to Peak Location Separation Ratio Plots



FCC ID: ZNFG900TM	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	 LG	Approved by: Quality Manager
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I.2 Additional Simultaneous SAR Evaluation and Analysis for Main Band, Bluetooth, and 5 GHz WLAN Operations

Per KDB Publication 865664, when the sum of the transmitters potentially operating simultaneously is greater than the 1.6 W/kg and the sum to peak SAR location separation ratio between any pair of transmitters is more than 0.04 for 1g or 0.10 for 10g, SAR tests are required for simultaneous transmission to determine the aggregate 1g SAR. When required, each transmitter is tested for simultaneous transmission in the configuration, channel, and operating mode that resulted in the highest SAR during the stand-alone evaluation. The Bluetooth and 5GHz WLAN transmitters are co-located antenna pair and spatially separated from 2G/3G/4G/5G antenna. Per November 2019 TCB Workshop Notes, enlarged volumetric scans on co-located antenna pair were performed for the Bluetooth and 5GHz WLAN. The SPLSR procedure for the spatially separated 2G/3G/4G/5G antenna and aggregated SAR distribution of the co-located Bluetooth/5GHz WLAN antenna pair was applied according to KDB Publication 447498.

I.2.1 Body-worn SPLSR Evaluation and Analysis for Main Band, Bluetooth and 5 GHz WLAN Simultaneous Transmission

**Table I-10
Simultaneous Transmission SAR Analysis**

Band/Mode	Configuration	Frequency [MHz]	Measured Standalone 1g SAR [W/kg]	Conducted Power [dBm]	Maximum Allowed Power [dBm]	Duty Cycle [%]	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Volumetric 1g SAR [W/kg]	Scaled Volumetric 1g SAR [W/kg]	Volumetric SAR Plot Number
LTE Band 12	Back Side, Mid.ch, 10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset, 10mm	707.5	0.304	25.46	25.5	100	1.009	1.000	0.348	0.351	J1
NR Band n66 Ant 3	Back side, Mid.ch, 40 MHz Bandwidth, DFT-s-OFDM QPSK, 108 RB, 54 RB Offset, 10 mm	1745	0.756	25.08	25.2	100	1.028	1.000	0.789	0.811	J2
NR Band n25 Ant 3	Back side, Mid.ch, 40 MHz Bandwidth, DFT-s-OFDM QPSK, 108 RB, 54 RB Offset, 10 mm	1882.5	0.786	25.17	25.2	100	1.007	1.000	0.802	0.808	J3
5 GHz WLAN Antenna 1	IEEE 802.11a, UNII-3, 20 MHz Bandwidth, Ch 165, 6 Mbps Back Side, 10 mm	5825	0.735	18.88	19.8	97.6	1.236	1.025	0.732	0.927	J4
5 GHz WLAN MIMO	IEEE 802.11n, UNII-3, 20 MHz Bandwidth, Ch 157, 13 Mbps, Back Side, 10 mm	5785	0.855	21.91	22.9	97.6	1.259	1.025	0.791	1.021	J5
Bluetooth	Ch 39, 1 Mbps, Back Side, 10 mm	2441	0.022	10.38	11	77.1	1.153	1.297	0.014	0.021	J6

Simultaneous Transmission Bands/Modes		Scaled Multi-Band SAR (W/kg)	Simultaneous SAR Plot Number
NR Band n66 Ant 3	LTE Band 12	0.964	J7
NR Band n25 Ant 3	LTE Band 12	0.987	J8
5 GHz WLAN Ant 1	Bluetooth	0.928	J9
5 GHz WLAN MIMO	Bluetooth	1.02	J10

Note:

1. All volumetric zoom scans were performed with DASY52 SAR system version 52.10. Post processor SEMCAD X Versions 14.6.14 (7483) multiband combiner requires enlarged zoom scans to overlap but does not require measurement point resolutions within the volumes to be identical for interpolation and superposition.
2. Each antenna was evaluated independently using the channel/configuration that produced the highest measured SAR when the standalone SAR was tested.
3. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v05. The simultaneous transmission SAR results of the individual transmitters were scaled using SEMCAD X during processing.
4. The Bluetooth, 5 GHz WIFI, LTE, and NR SAR values above represent the aggregate distributions from the simultaneous transmission (volumetric) SAR evaluation.

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I.2.2

Body-worn SPLSR Evaluation and Analysis for Main Band, Bluetooth and 5 GHz WLAN Simultaneous Transmission

Table I-11
Peak SAR Locations for Body-worn Back Side

Mode/Band	x (mm)	y (mm)	Reported SAR (W/kg)
LTE Band 12 and NR Band n66 Ant 3	-63.00	-33.00	0.964
LTE Band 12 and NR Band n25 Ant 3	-53.00	-34.00	0.987
Red 5 GHz WLAN Ant 1	0.00	66.00	0.569
5 GHz WLAN MIMO	-5.00	61.00	1.103
Bluetooth	5.00	56.60	0.033
Bluetooth and 5 GHz WLAN Ant 1	-1.00	66.00	0.928
Bluetooth and 5 GHz WLAN MIMO	-1.00	62.00	1.020
CDMA BC0 (§22H)	-53.50	-61.50	0.507
PCS CDMA	0.50	-83.00	0.728
GSM/GPRS 850	-50.50	-57.00	0.662
UMTS 850	-53.50	-57.00	0.555
UMTS 1750	-7.30	-86.10	0.908
UMTS 1900	-1.00	-78.00	0.702
LTE Band 12	-50.50	-55.00	0.307
LTE Band 26 (Cell)	-50.50	-60.00	0.510
LTE Band 66 (AWS) Ant 2	-9.00	-88.00	1.080
LTE Band 66 (AWS) Ant 3	-64.00	-30.00	0.352
LTE Band 25 (PCS)	0.50	-84.50	0.584
LTE Band 2 (PCS) Ant 3	-51.50	-30.00	0.403
LTE Band 41	-26.40	-84.00	0.492
NR Band n71	-50.50	-55.00	0.427
NR Band n66 Ant 2	-8.50	-87.00	1.194
NR Band n66 Ant 3	-65.50	-36.50	0.777
NR Band n25 Ant 2	7.00	-82.50	0.826
NR Band n25 Ant 3	-57.50	-39.50	0.792
NR Band n41	-53.60	39.60	0.660

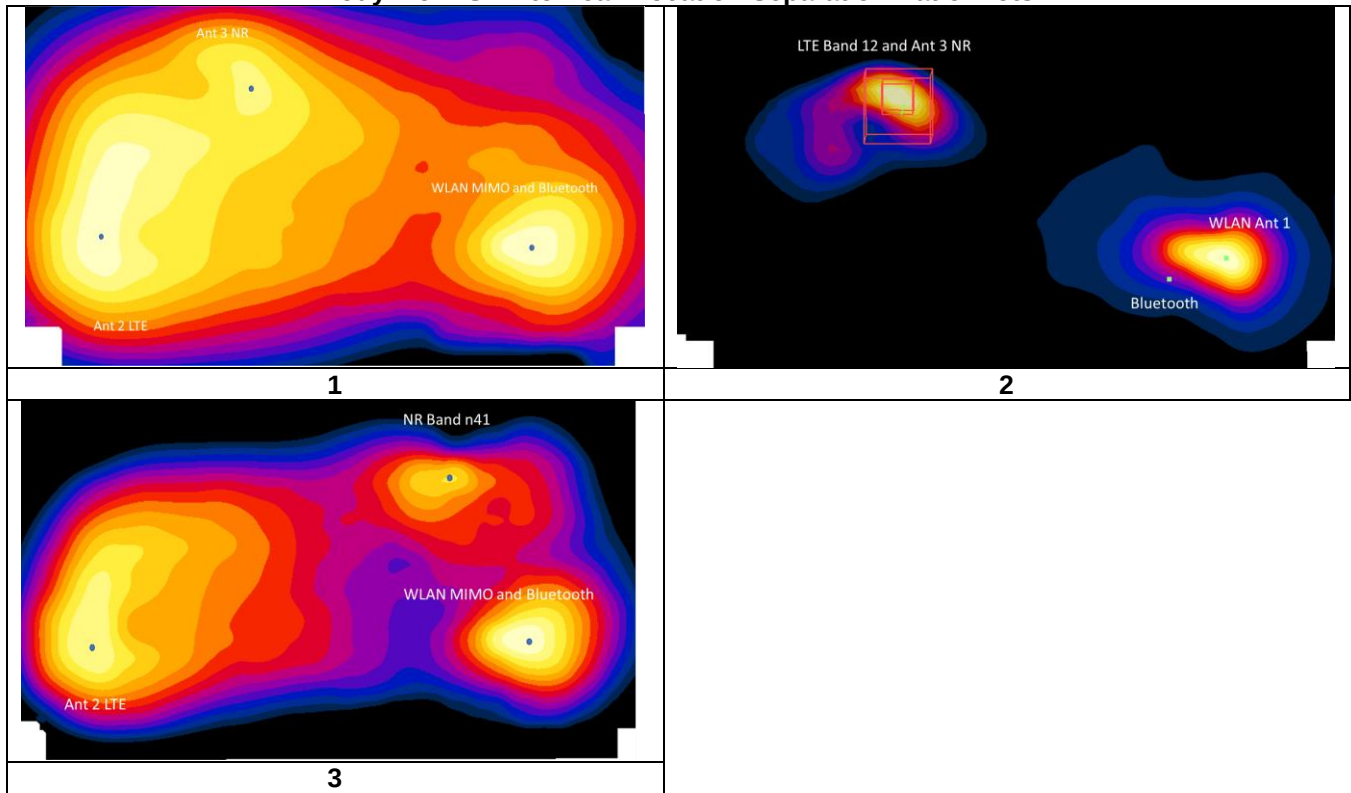
FCC ID: ZNFG900TM	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	 LG	Approved by: Quality Manager
Test Dates: 07/01/20 - 08/17/20	DUT Type: Portable Handset			Appendix I: Page 14 of 20

Table I-12
Body-worn SAR to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$	
NR Band n25 Ant 3	LTE Band 66 (AWS) Ant 2	0.792	1.080	1.872	68.59	0.04	1
Bluetooth and 5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.020	1.080	2.1	150.21	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n25 Ant 3	1.020	0.792	1.812	116.17	0.02	
LTE Band 12 and NR Band n25 Ant 3	Red 5 GHz WLAN Ant 1	0.987	0.569	1.556	113.18	0.02	2
Bluetooth	Red 5 GHz WLAN Ant 1	0.033	0.569	0.602	10.65	0.04	
LTE Band 12 and NR Band n25 Ant 3	Bluetooth	0.987	0.033	1.02	107.57	0.01	
Bluetooth and 5 GHz WLAN MIMO	NR Band n41	1.020	0.660	1.68	57.17	0.04	3
LTE Band 25 (PCS)	NR Band n41	0.584	0.660	1.244	135.38	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.020	0.584	1.604	146.51	0.01	
Bluetooth and 5 GHz WLAN Ant 1	PCS CDMA	0.928	0.728	1.656	149.01	0.01	
Bluetooth and 5 GHz WLAN Ant 1	GSM/GPRS 850	0.928	0.662	1.59	132.59	0.02	
Bluetooth and 5 GHz WLAN Ant 1	UMTS 1750	0.928	0.908	1.836	152.23	0.02	
Bluetooth and 5 GHz WLAN Ant 1	UMTS 1900	0.928	0.702	1.63	144.00	0.01	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.928	1.080	2.008	154.21	0.02	
Bluetooth and 5 GHz WLAN Ant 1	NR Band n66 Ant 2	0.928	1.194	2.122	153.18	0.02	
Bluetooth and 5 GHz WLAN Ant 1	NR Band n66 Ant 3	0.928	0.777	1.705	121.11	0.02	
Bluetooth and 5 GHz WLAN Ant 1	NR Band n25 Ant 2	0.928	0.826	1.754	148.72	0.02	
Bluetooth and 5 GHz WLAN Ant 1	NR Band n25 Ant 3	0.928	0.792	1.72	119.68	0.02	
Bluetooth and 5 GHz WLAN Ant 1	NR Band n41	0.928	0.660	1.588	58.85	0.03	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 12	0.928	0.307	1.235	130.73	0.01	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 3	0.928	0.352	1.28	114.83	0.01	
LTE Band 66 (AWS) Ant 3	LTE Band 12	0.352	0.307	0.659	28.41	0.02	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 12	0.928	0.307	1.235	130.73	0.01	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 2 (PCS) Ant 3	0.928	0.403	1.331	108.47	0.01	
LTE Band 2 (PCS) Ant 3	LTE Band 12	0.403	0.307	0.71	25.02	0.02	
Bluetooth and 5 GHz WLAN MIMO	CDMA BCO (\$22H)	1.020	0.507	1.527	134.20	0.01	
Bluetooth and 5 GHz WLAN MIMO	PCS CDMA	1.020	0.728	1.748	145.01	0.02	
Bluetooth and 5 GHz WLAN MIMO	GSM/GPRS 850	1.020	0.662	1.682	128.88	0.02	
Bluetooth and 5 GHz WLAN MIMO	UMTS 850	1.020	0.555	1.575	130.07	0.02	
Bluetooth and 5 GHz WLAN MIMO	UMTS 1750	1.020	0.908	1.928	148.23	0.02	
Bluetooth and 5 GHz WLAN MIMO	UMTS 1900	1.020	0.702	1.722	140.00	0.02	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 26 (Cell)	1.020	0.510	1.53	131.66	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.020	1.080	2.1	150.21	0.02	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.020	0.584	1.604	146.51	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 41	1.020	0.492	1.512	148.19	0.01	
Bluetooth and 5 GHz WLAN MIMO	NR Band n66 Ant 2	1.020	1.194	2.214	149.19	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n66 Ant 3	1.020	0.777	1.797	117.74	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n25 Ant 2	1.020	0.826	1.846	144.72	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n25 Ant 3	1.020	0.792	1.812	116.17	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n41	1.020	0.660	1.68	57.17	0.04	
NR Band n71	LTE Band 66 (AWS) Ant 2	0.427	1.080	1.507	53.02	0.03	
Bluetooth and 5 GHz WLAN MIMO	NR Band n71	1.020	0.427	1.447	127.04	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.020	1.080	2.1	150.21	0.02	
NR Band n71	LTE Band 25 (PCS)	0.427	0.584	1.011	58.92	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n71	1.020	0.427	1.447	127.04	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.020	0.584	1.604	146.51	0.01	
NR Band n66 Ant 3	LTE Band 25 (PCS)	0.777	0.584	1.361	81.61	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n66 Ant 3	1.020	0.777	1.797	117.74	0.02	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 25 (PCS)	1.020	0.584	1.604	146.51	0.01	
LTE Band 12 and NR Band n25 Ant 3	Bluetooth and 5 GHz WLAN MIMO	0.987	1.020	2.007	109.18	0.03	
LTE Band 12 and NR Band n25 Ant 3	5 GHz WLAN MIMO	0.987	1.103	2.09	106.44	0.03	
LTE Band 12 and NR Band n66 Ant 3	Bluetooth and 5 GHz WLAN MIMO	0.964	1.020	1.984	113.44	0.02	
LTE Band 12 and NR Band n66 Ant 3	5 GHz WLAN MIMO	0.964	1.103	2.067	110.45	0.03	
LTE Band 12 and NR Band n66 Ant 3	Red 5 GHz WLAN Ant 1	0.964	0.569	1.533	117.35	0.02	
Bluetooth	Red 5 GHz WLAN Ant 1	0.033	0.569	0.602	10.65	0.04	
LTE Band 12 and NR Band n66 Ant 3	Bluetooth	0.964	0.033	0.997	112.48	0.01	
Bluetooth and 5 GHz WLAN MIMO	NR Band n41	1.020	0.660	1.68	57.17	0.04	
LTE Band 66 (AWS) Ant 2	NR Band n41	1.080	0.660	1.74	135.17	0.02	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.020	1.080	2.1	150.21	0.02	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 12	1.020	0.307	1.327	127.04	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 3	1.020	0.352	1.372	111.50	0.01	
LTE Band 66 (AWS) Ant 3	LTE Band 12	0.352	0.307	0.659	28.41	0.02	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 12	1.020	0.307	1.327	127.04	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 2 (PCS) Ant 3	1.020	0.403	1.423	104.95	0.02	
LTE Band 2 (PCS) Ant 3	LTE Band 12	0.403	0.307	0.71	25.02	0.02	

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Table I-13
Body-worn SAR to Peak Location Separation Ratio Plots



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I.2.3 Hotspot SPLSR Evaluation and Analysis for Main Band, Bluetooth and 5 GHz WLAN Simultaneous Transmission

Table I-14
Peak SAR Locations for Hotspot Back Side

Mode/Band	x (mm)	y (mm)	Reported SAR (W/kg)
Bluetooth and 5 GHz WLAN Ant 1	-1.00	66.00	0.928
Bluetooth and 5 GHz WLAN MIMO	-1.00	62.00	1.020
EVDO BC10 (§90S)	-50.50	-57.00	0.494
EVDO BC0 (§22H)	-52.00	-58.50	0.571
PCS EVDO	-12.50	-82.50	0.590
GPRS 850	-50.50	-57.00	0.662
UMTS 850	-53.50	-57.00	0.555
UMTS 1750	-10.00	-87.00	0.529
UMTS 1900	7.00	-82.50	0.622
LTE Band 12	-50.50	-55.00	0.307
LTE Band 26 (Cell)	-50.50	-60.00	0.510
LTE Band 66 (AWS) Ant 2	-23.50	-73.50	0.831
LTE Band 66 (AWS) Ant 3	-64.00	-30.00	0.352
LTE Band 25 (PCS) Ant 2	-27.50	-83.00	0.641
LTE Band 2 (PCS) Ant 3	-51.50	-30.00	0.403
NR Band n71	-50.50	-55.00	0.427
NR Band n66 Ant 2	-23.50	-80.00	0.856
NR Band n66 Ant 3	-64.00	-30.00	0.527
NR Band n25 Ant 2	-15.50	-85.50	0.687
NR Band n25 Ant 3	-70.00	-33.50	0.551
NR Band n41	-53.60	39.60	0.660

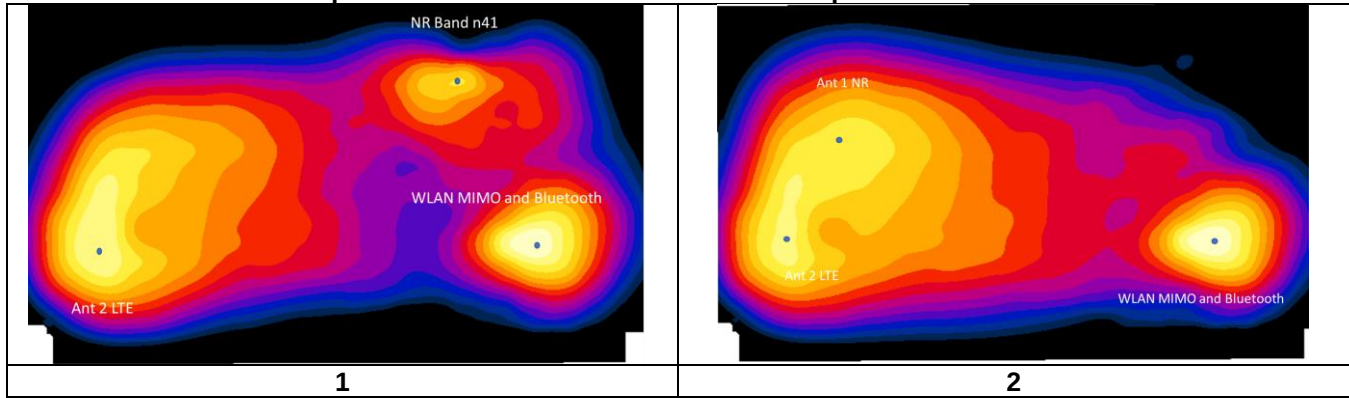
FCC ID: ZNFG900TM	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table I-15
Hotspot Back Side SAR to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$	
LTE Band 25 (PCS) Ant 2	NR Band n41	0.641	0.660	1.301	125.35	0.01	1
Bluetooth and 5 GHz WLAN MIMO	LTE Band 25 (PCS) Ant 2	1.020	0.641	1.661	147.40	0.01	
Bluetooth and 5 GHz WLAN MIMO	NR Band n41	1.020	0.660	1.68	57.17	0.04	
Bluetooth and 5 GHz WLAN MIMO	NR Band n71	1.020	0.427	1.447	127.04	0.01	2
Bluetooth and 5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.020	0.831	1.851	137.36	0.02	
LTE Band 66 (AWS) Ant 2	NR Band n71	0.831	0.427	1.258	32.73	0.04	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 2	0.928	0.831	1.759	141.30	0.02	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 25 (PCS) Ant 2	0.928	0.641	1.569	151.34	0.01	
Bluetooth and 5 GHz WLAN Ant 1	NR Band n66 Ant 2	0.928	0.856	1.784	147.72	0.02	
Bluetooth and 5 GHz WLAN Ant 1	NR Band n25 Ant 2	0.928	0.687	1.615	152.19	0.01	
Bluetooth and 5 GHz WLAN Ant 1	NR Band n41	0.928	0.660	1.588	58.85	0.03	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 12	0.928	0.307	1.235	130.73	0.01	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 66 (AWS) Ant 3	0.928	0.352	1.28	114.83	0.01	
LTE Band 66 (AWS) Ant 3	LTE Band 12	0.352	0.307	0.659	28.41	0.02	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 12	0.928	0.307	1.235	130.73	0.01	
Bluetooth and 5 GHz WLAN Ant 1	LTE Band 2 (PCS) Ant 3	0.928	0.403	1.331	108.47	0.01	
LTE Band 2 (PCS) Ant 3	LTE Band 12	0.403	0.307	0.71	25.02	0.02	
Bluetooth and 5 GHz WLAN Ant 1	GPRS 850	0.928	0.662	1.59	132.59	0.02	
Bluetooth and 5 GHz WLAN MIMO	EVDO BC10 (\$90S)	1.020	0.494	1.514	128.88	0.01	
Bluetooth and 5 GHz WLAN MIMO	EVDO BC0 (\$22H)	1.020	0.571	1.591	130.85	0.02	
Bluetooth and 5 GHz WLAN MIMO	PCS EVDO	1.020	0.590	1.61	144.96	0.01	
Bluetooth and 5 GHz WLAN MIMO	GPRS 850	1.020	0.662	1.682	128.88	0.02	
Bluetooth and 5 GHz WLAN MIMO	UMTS 850	1.020	0.555	1.575	130.07	0.02	
Bluetooth and 5 GHz WLAN MIMO	UMTS 1750	1.020	0.529	1.549	149.27	0.01	
Bluetooth and 5 GHz WLAN MIMO	UMTS 1900	1.020	0.622	1.642	144.72	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 26 (Cell)	1.020	0.510	1.53	131.66	0.01	
Bluetooth and 5 GHz WLAN MIMO	NR Band n66 Ant 2	1.020	0.856	1.876	143.77	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n25 Ant 2	1.020	0.687	1.707	148.21	0.02	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 12	1.020	0.307	1.327	127.04	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 3	1.020	0.352	1.372	111.50	0.01	
LTE Band 66 (AWS) Ant 3	LTE Band 12	0.352	0.307	0.659	28.41	0.02	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 12	1.020	0.307	1.327	127.04	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 2 (PCS) Ant 3	1.020	0.403	1.423	104.95	0.02	
LTE Band 2 (PCS) Ant 3	LTE Band 12	0.403	0.307	0.71	25.02	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n71	1.020	0.427	1.447	127.04	0.01	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 25 (PCS) Ant 2	1.020	0.641	1.661	147.40	0.01	
LTE Band 25 (PCS) Ant 2	NR Band n71	0.641	0.427	1.068	36.24	0.03	
LTE Band 25 (PCS) Ant 2	NR Band n66 Ant 3	0.641	0.527	1.168	64.35	0.02	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 25 (PCS) Ant 2	1.020	0.641	1.661	147.40	0.01	
Bluetooth and 5 GHz WLAN MIMO	NR Band n66 Ant 3	1.020	0.527	1.547	111.50	0.02	
LTE Band 12	NR Band n66 Ant 3	0.307	0.527	0.834	28.41	0.03	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 12	1.020	0.307	1.327	127.04	0.01	
Bluetooth and 5 GHz WLAN MIMO	NR Band n66 Ant 3	1.020	0.527	1.547	111.50	0.02	
LTE Band 12	NR Band n25 Ant 3	0.307	0.551	0.858	29.03	0.03	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 12	1.020	0.307	1.327	127.04	0.01	
Bluetooth and 5 GHz WLAN MIMO	NR Band n25 Ant 3	1.020	0.551	1.571	117.82	0.02	
LTE Band 66 (AWS) Ant 2	NR Band n25 Ant 3	0.831	0.551	1.382	61.34	0.03	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.020	0.831	1.851	137.36	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n25 Ant 3	1.020	0.551	1.571	117.82	0.02	
LTE Band 66 (AWS) Ant 2	NR Band n41	0.831	0.660	1.491	117.04	0.02	
Bluetooth and 5 GHz WLAN MIMO	LTE Band 66 (AWS) Ant 2	1.020	0.831	1.851	137.36	0.02	
Bluetooth and 5 GHz WLAN MIMO	NR Band n41	1.020	0.660	1.68	57.17	0.04	

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Table I-16
Hotspot Back Side SAR to Peak Location Separation Ratio Plots



I.2.4 Phablet Back Side Volumetric SAR Evaluation and Analysis for LTE, NR, and WLAN Simultaneous Transmission

Table I-17
Simultaneous Transmission SAR Analysis

Band/Mode	Configuration	Frequency [MHz]	Measured Standalone 10g SAR [W/kg]	Conducted Power [dBm]	Maximum Allowed Power [dBm]	Duty Cycle [%]	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Volumetric 10g SAR [W/kg]	Scaled Volumetric 10g SAR [W/kg]	Volumetric SAR Plot Number
LTE Band 66 (AWS) Ant 2	Dual Display Accessory Position #1, Back side, Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, 0 mm	1745	2.83	24.91	25.2	100	1.069	1	2.84	3.036	J11
LTE Band 66 (AWS) Ant 2	Dual Display Accessory Position #3, Front side Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, 0 mm	1745	2.65	24.91	25.2	100	1.069	1	2.52	2.694	J12
LTE Band 25 (PCS)	Dual Display Accessory Position #1, Back side High.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, 0 mm	1905	2.86	25.17	25.2	100	1.007	1	2.99	3.011	J13
LTE Band 25 (PCS)	Dual Display Accessory Position #3, Front side, Low.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, 0 mm	1860	2.170	24.77	25.2	100	1.104	1	2.04	2.252	J14
NR Band n66 Ant 3	Back Side, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 349000, 108 RB, 54 RB Offset, 0 mm	1745	2.41	23.14	23.2	100	1.014	1	2.2	2.231	J15
NR Band n66 Ant 3	Dual Display Accessory Position #3, Front Side, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 349000, 1 RB, 108 RB Offset, 0 mm	1745	2.2	25.08	25.2	100	1.028	1	2.07	2.128	J16
NR Band n25 Ant 3	Back Side, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 376500, 108 RB, 54 RB Offset, 2 mm	1882.50	1.98	25.17	25.2	100	1.007	1	1.78	1.792	J17
NR Band n25 Ant 3	Dual Display Accessory Position #3, Front Side, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 376500, 1 RB, 108 RB Offset, 0 mm	1882.50	2.2	25.16	25.2	100	1.009	1	2.16	2.179	J18
5 GHz WLAN Ant 1	Back Side, 802.11a, UNII-2A, Ch. 56, 6 Mbps, 20 MHz Bandwidth, 0 mm	5280	1.72	19.34	19.5	97.6	1.038	1.025	1.42	1.511	J19
5 GHz WLAN Ant 1	Front Side, 802.11a, UNII-2A, Ch. 56, 6 Mbps, 20 MHz Bandwidth, 0 mm	5280	0.296	19.34	19.5	97.6	1.038	1.025	0.347	0.369	J20
5 GHz WLAN Ant 2	Back Side, 802.11a, UNII-2C, Ch. 140, 6 Mbps, 20 MHz Bandwidth, 0 mm	5700	0.695	16.86	17.8	97.8	1.242	1.022	0.692	0.878	J21
5 GHz WLAN Ant 2	Front Side, 802.11a, UNII-2A, Ch. 56, 6 Mbps, 20 MHz Bandwidth, 0 mm	5280	0.389	18.61	19.5	97.8	1.227	1.022	0.455	0.571	J22
5 GHz WLAN MIMO	Back Side, 802.11n, UNII-2A, Ch. 56, 13 Mbps, 20 MHz Bandwidth, 0 mm	5280	1.59	21.87	22.4	97.6	1.271	1.025	1.64	2.137	J23
5 GHz WLAN MIMO	Front Side, 802.11n, UNII-2A, Ch. 56, 13 Mbps, 20 MHz Bandwidth, 0 mm	5280	0.6	21.87	22.4	97.6	1.271	1.025	0.687	0.895	J24

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Simultaneous Transmission Bands/Modes			Scaled Multi-Band SAR (W/kg)	Simultaneous SAR Plot Number
LTE Band 66 (AWS) Back Side	NR Band n25 Ant 3 Back Side	5 GHz WLAN Ant 1 Back Side	3.17	J25
LTE Band 66 (AWS) Back Side	NR Band n25 Ant 3 Back Side	5 GHz WLAN Ant 2 Back Side	3.19	J26
LTE Band 66 (AWS) Back Side	NR Band n25 Ant 3 Back Side	5 GHz WLAN MIMO Back Side	3.16	J27
NR Band n66 Ant 3 Back Side	LTE Band 25 (PCS) Back Side	5 GHz WLAN Ant 1 Back Side	2.77	J28
NR Band n66 Ant 3 Back Side	LTE Band 25 (PCS) Back Side	5 GHz WLAN Ant 2 Back Side	2.78	J29
NR Band n66 Ant 3 Back Side	LTE Band 25 (PCS) Back Side	5 GHz WLAN MIMO Back Side	2.75	J30
LTE Band 66 (AWS) Front Side	NR Band n25 Ant 3 Front Side	5 GHz WLAN Ant 1 Front Side	2.77	J31
LTE Band 66 (AWS) Front Side	NR Band n25 Ant 3 Front Side	5 GHz WLAN Ant 2 Front Side	2.79	J32
LTE Band 66 (AWS) Front Side	NR Band n25 Ant 3 Front Side	5 GHz WLAN MIMO Front Side	2.75	J33
NR Band n66 Ant 3 Front Side	LTE Band 25 (PCS) Front Side	5 GHz WLAN Ant 1 Front Side	2.21	J34
NR Band n66 Ant 3 Front Side	LTE Band 25 (PCS) Front Side	5 GHz WLAN Ant 2 Front Side	2.22	J35
NR Band n66 Ant 3 Front Side	LTE Band 25 (PCS) Front Side	5 GHz WLAN MIMO Front Side	2.2	J36

Note:

1. All volumetric zoom scans were performed with DASY52 SAR system version 52.10. Post processor SEMCAD X Versions 14.6.14 (7483) multiband combiner requires enlarged zoom scans to overlap but does not require measurement point resolutions within the volumes to be identical for interpolation and superposition.
2. Each antenna was evaluated independently using the channel/configuration that produced the highest measured SAR when the standalone SAR was tested.
3. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v05. The simultaneous transmission SAR results of the individual transmitters were scaled using SEMCAD X during processing.
4. The LTE, NR, and WLAN SAR values above represent the aggregate distributions from the simultaneous transmission (volumetric) SAR evaluation.

I.3 Simultaneous Transmission Conclusion

The above analysis for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

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J.1 SAR Volume Scan Plots

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01696

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$; $\sigma = 0.951 \text{ S/m}$; $\epsilon_r = 53.807$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/17/2020; Ambient Temp: 23.8°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN3589; ConvF(8.49, 8.49, 8.49) @ 707.5 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

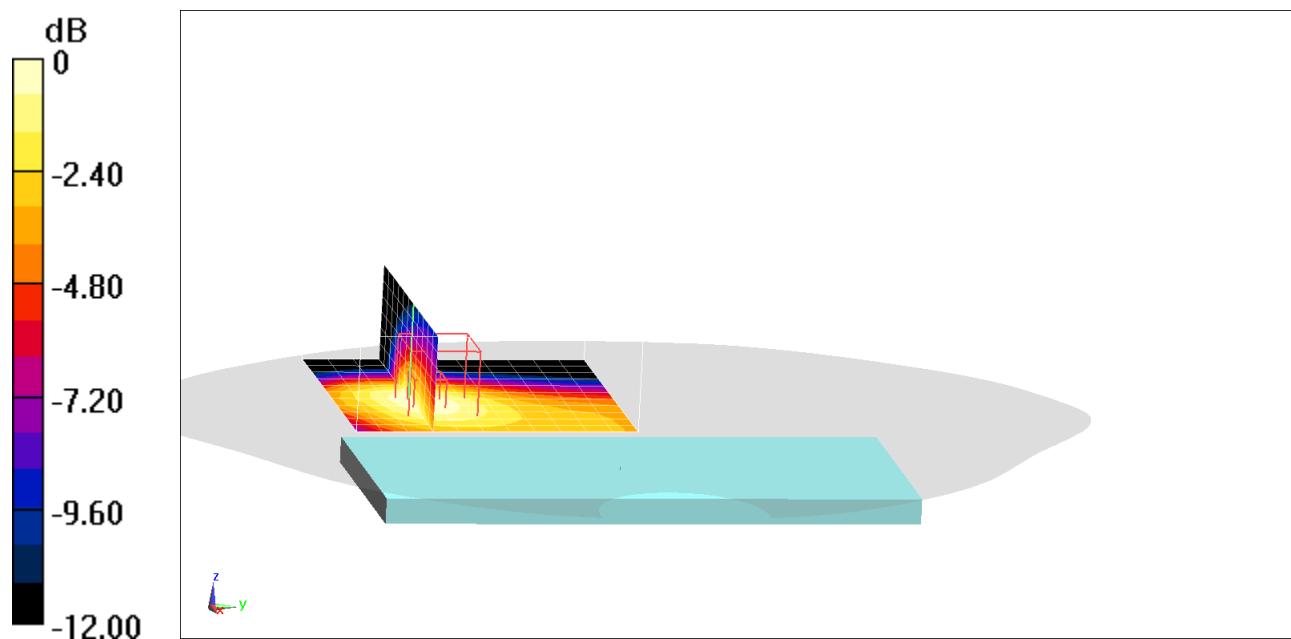
Mode: LTE Band 12, Body SAR, Back side, Mid.ch
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset

Zoom Scan (12x12x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.42 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.555 W/kg

SAR(1 g) = 0.348 W/kg



0 dB = 0.468 W/kg = -3.30 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01738

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/17/2020; Ambient Temp: 24.9°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7406; ConvF(7.96, 7.96, 7.96) @ 1745 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1583; Calibrated: 5/14/2020

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

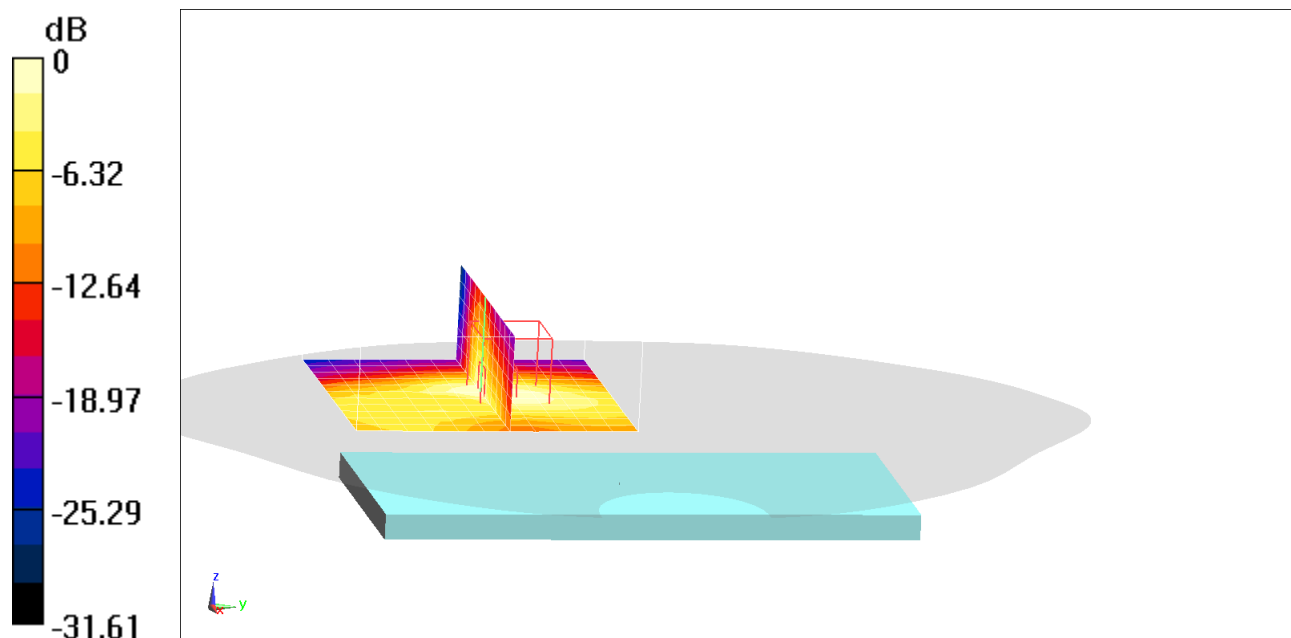
**Mode: NR Band n66, Ant 3, Body SAR, Back Side, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 349000, 108 RB, 54 RB Offset**

Zoom Scan (12x12x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.71 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.789 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01738

Communication System: UID 0, NR Band n25; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5 \text{ MHz}$; $\sigma = 1.525 \text{ S/m}$; $\epsilon_r = 52.992$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/17/2020; Ambient Temp: 20.9°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1882.5 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

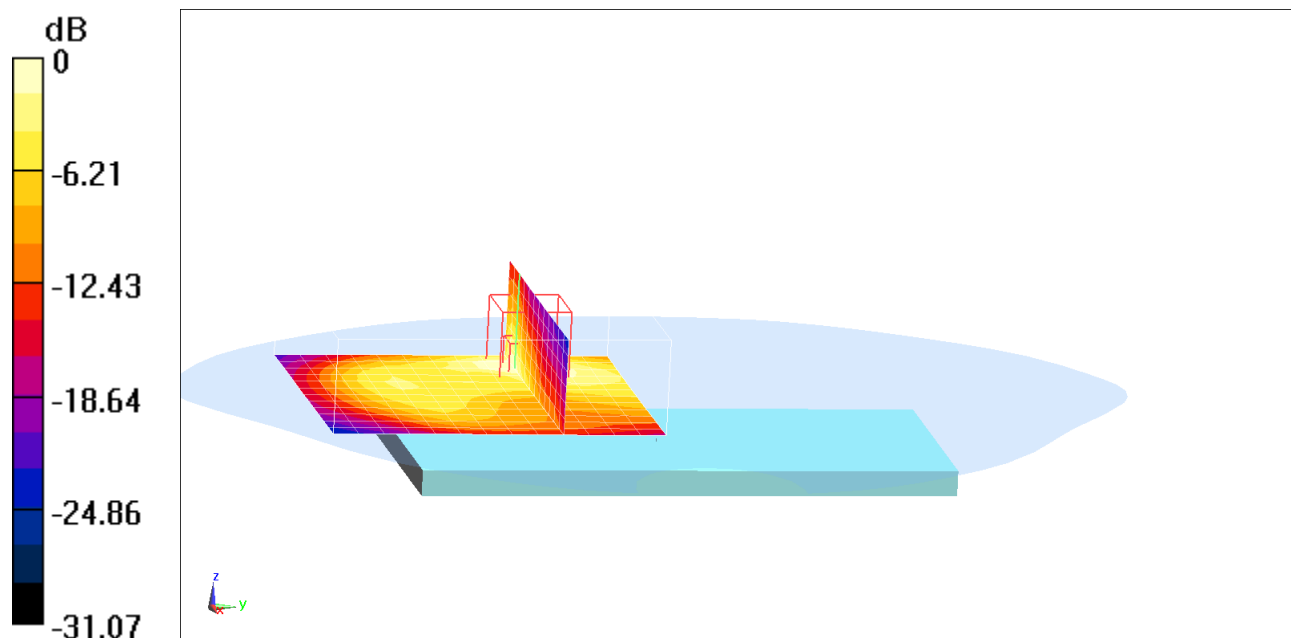
**Mode: NR Band n25, Ant 3, Body SAR, Back Side, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 376500, 108 RB, 54 RB Offset**

Zoom Scan (13x14x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.28 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.802 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01464

Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5825 \text{ MHz}$; $\sigma = 6.196 \text{ S/m}$; $\epsilon_r = 47.018$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/10/2020; Ambient Temp: 23.1°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7538; ConvF(4.17, 4.17, 4.17) @ 5825 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn728; Calibrated: 5/20/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

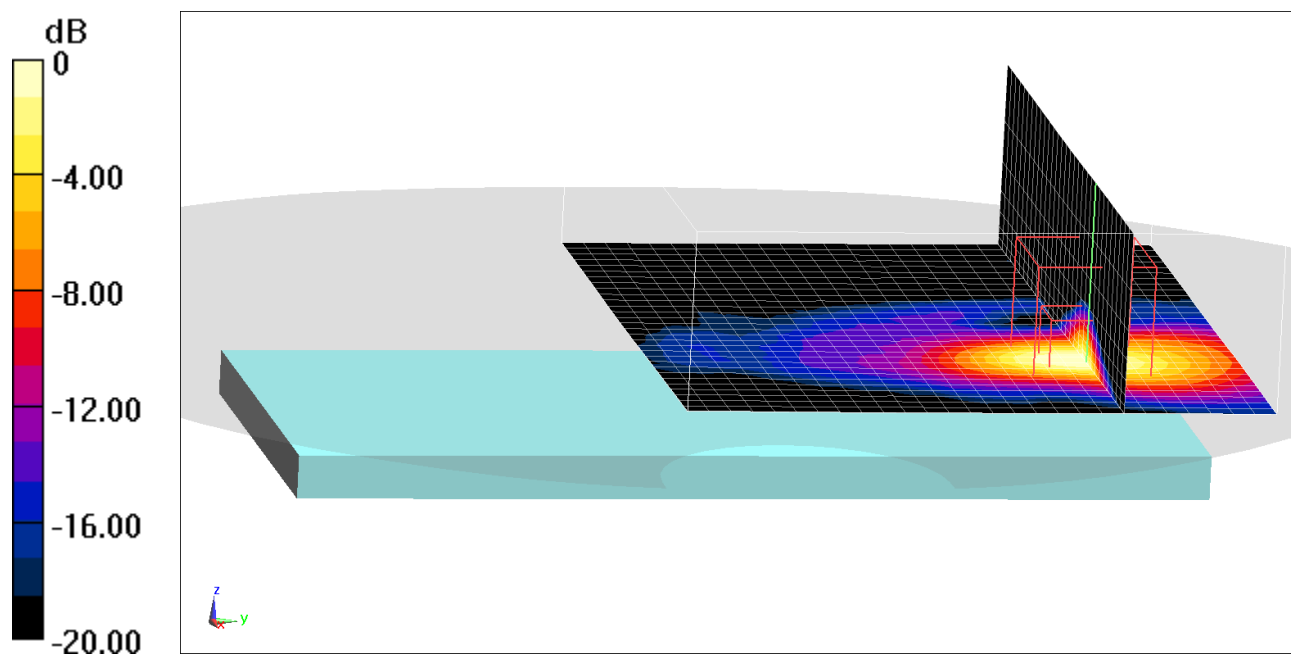
**Mode: IEEE 802.11a, Antenna 1, UNII-3, 20 MHz Bandwidth, Body SAR, Ch 165, 6 Mbps
Back Side**

Zoom Scan (31x28x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 1.305 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.34 W/kg

SAR(1 g) = 0.732 W/kg



0 dB = 1.78 W/kg = 2.50 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01464

Communication System: UID 0, 802.11n; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5785 \text{ MHz}$; $\sigma = 6.136 \text{ S/m}$; $\epsilon_r = 47.101$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/10/2020; Ambient Temp: 23.10C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7538; ConvF(4.17, 4.17, 4.17) @ 5785 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn728; Calibrated: 5/20/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

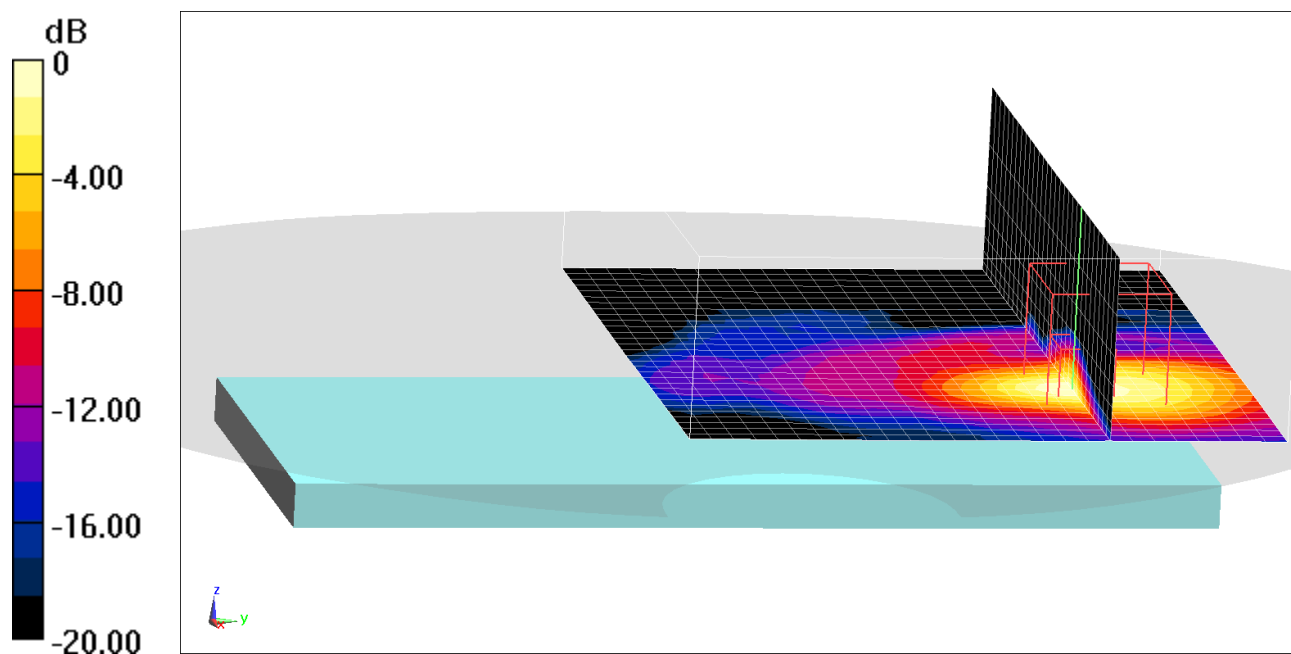
Mode: IEEE 802.11n, MIMO, UNII-3, 20 MHz Bandwidth, Body SAR
Ch 157, 13 Mbps, Back Side

Zoom Scan (31x28x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 11.72 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 0.791 W/kg



0 dB = 1.97 W/kg = 2.94 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01456

Communication System: UID 0, Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1.297

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2441 \text{ MHz}$; $\sigma = 2.008 \text{ S/m}$; $\epsilon_r = 52.158$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/13/2020; Ambient Temp: 22.2°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7409; ConvF(7.24, 7.24, 7.24) @ 2441 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/18/2020

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

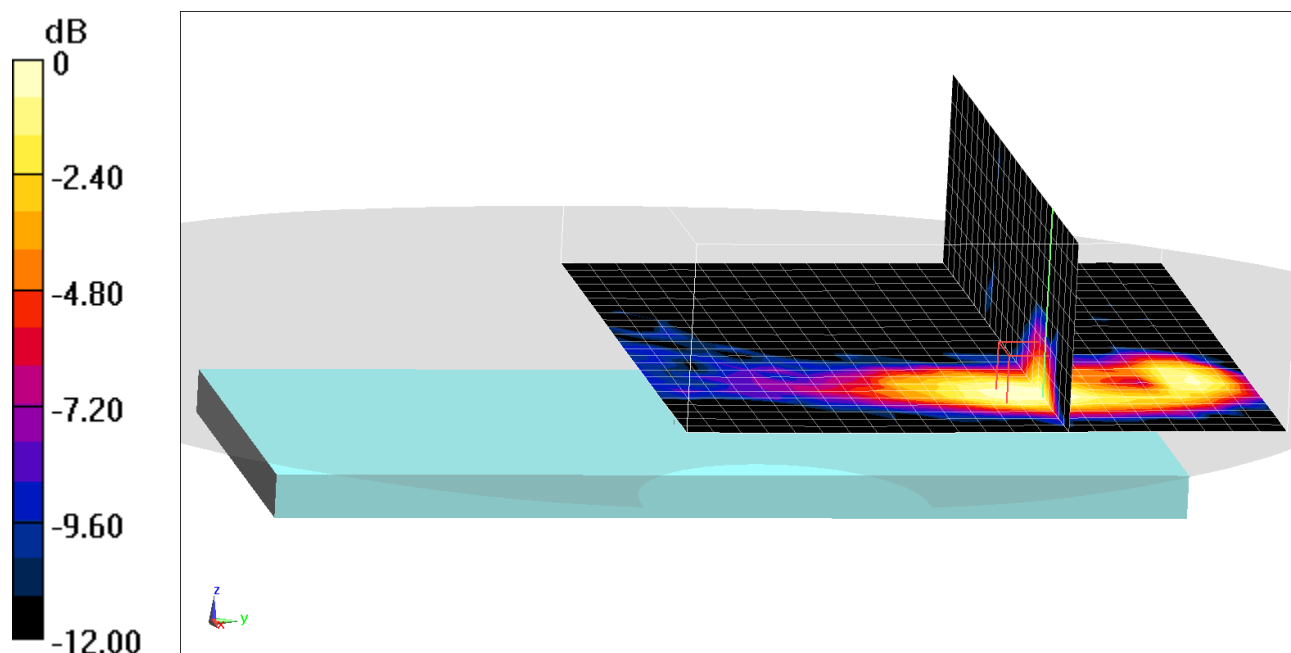
Mode: Bluetooth, Body SAR, Ch 39, 1 Mbps, Back Side

Zoom Scan (25x23x8)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.9540 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0350 W/kg

SAR(1 g) = 0.014 W/kg



0 dB = 0.0240 W/kg = -16.20 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

**Mode: NR Band n66, Ant 3, Body SAR, Back Side, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 349000, 108 RB, 54 RB Offset, Scaling Factor: 1.028**

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Mode: LTE Band 12, Body SAR, Back side, Mid.ch

10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset, Scaling Factor: 1.009

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

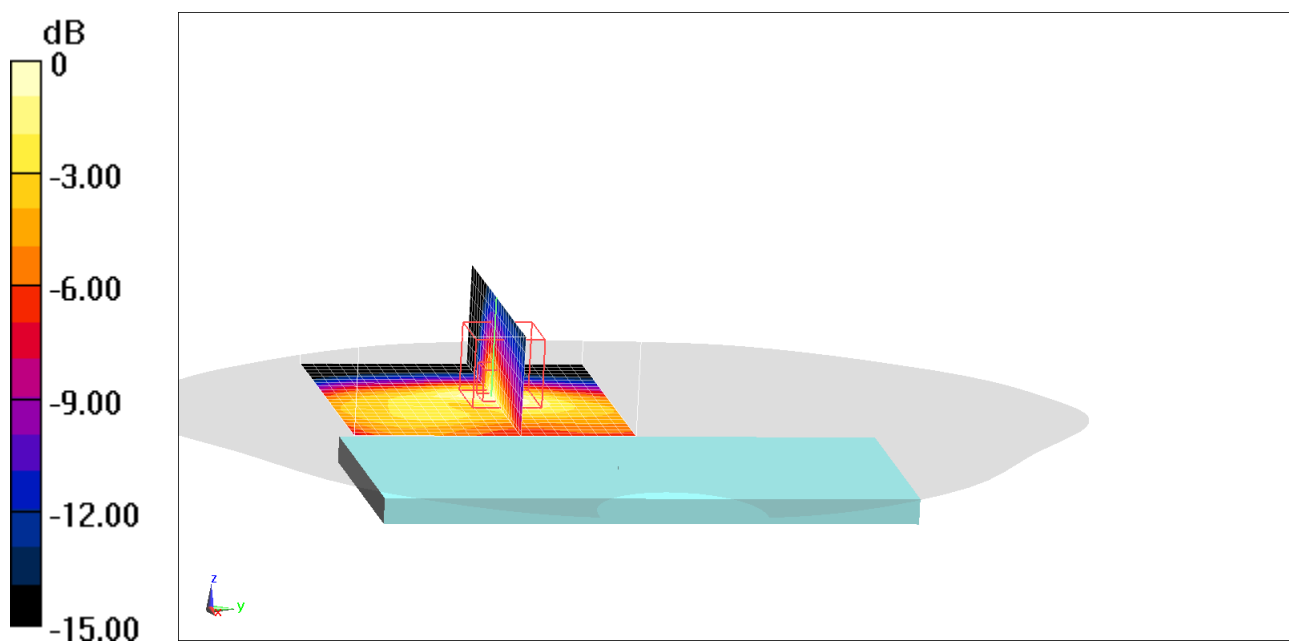
Medium: 750 Body; Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$; $\sigma = 0.951 \text{ S/m}$; $\epsilon_r = 53.807$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Multi Band Result:

SAR(1 g) = 0.964 W/kg



0 dB = 1.69 W/kg = 2.28 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

**Mode: NR Band n25, Ant 3, Body SAR, Back Side, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 376500, 108 RB, 54 RB Offset, Scaling Factor: 1.007**

Communication System: UID 0, NR Band n25; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5 \text{ MHz}$; $\sigma = 1.525 \text{ S/m}$; $\epsilon_r = 52.992$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Mode: LTE Band 12, Body SAR, Back side, Mid.ch

10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset, Scaling Factor: 1.009

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

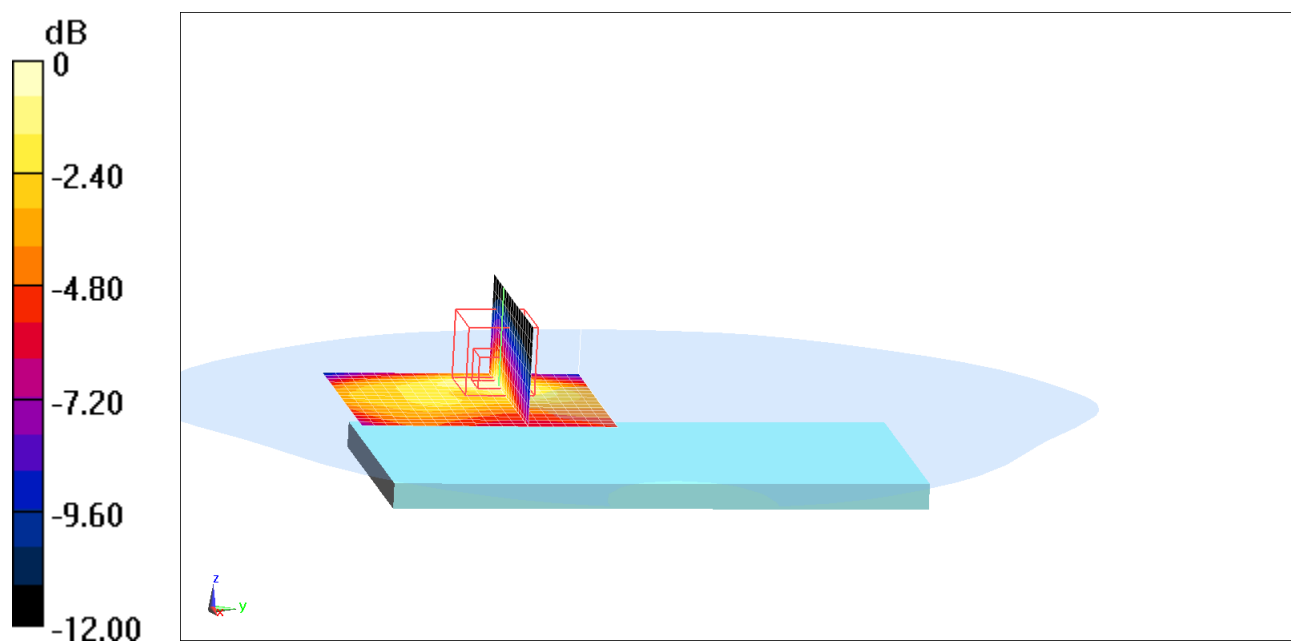
Medium: 750 Body; Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$; $\sigma = 0.951 \text{ S/m}$; $\epsilon_r = 53.807$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Multi Band Result:

SAR(1 g) = 0.987 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

Mode: IEEE 802.11a, Antenna 1, UNII-3, 20 MHz Bandwidth, Body SAR, Ch 165, 6 Mbps

Back Side, Scaling Factor: 1.267

Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5825 \text{ MHz}$; $\sigma = 6.196 \text{ S/m}$; $\epsilon_r = 47.018$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Mode: Bluetooth, Body SAR, Ch 39, 1 Mbps, Back Side, Scaling Factor: 1.495

Communication System: UID 0, Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1.297

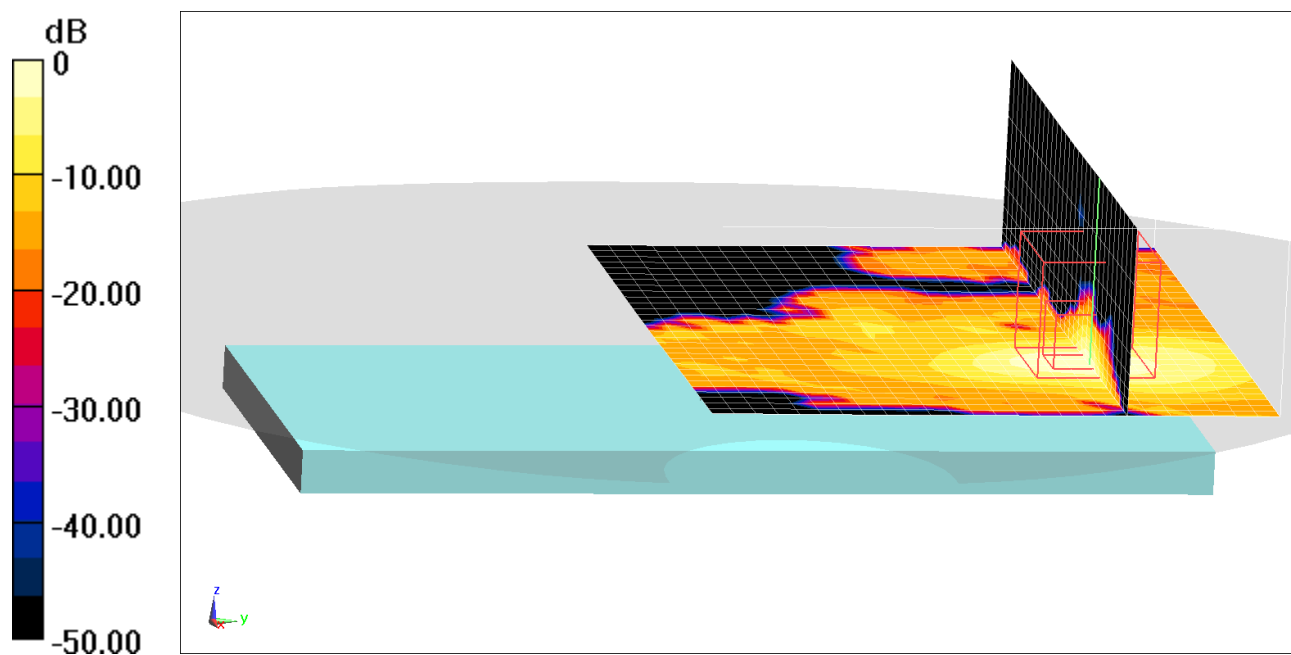
Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2441 \text{ MHz}$; $\sigma = 2.008 \text{ S/m}$; $\epsilon_r = 52.158$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Multi Band Result:

SAR(1 g) = 0.928 W/kg



PCTEST

DUT: ZNFG900TM; Type: Portable Handset

**Mode: IEEE 802.11n, MIMO, UNII-3, 20 MHz Bandwidth, Body SAR
Ch 157, 13 Mbps, Back Side, Scaling Factor: 1.290**

Communication System: UID 0, 802.11n; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5785 \text{ MHz}$; $\sigma = 6.136 \text{ S/m}$; $\epsilon_r = 47.101$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Mode: Bluetooth, Body SAR, Ch 39, 1 Mbps, Back Side, Scaling Factor: 1.495

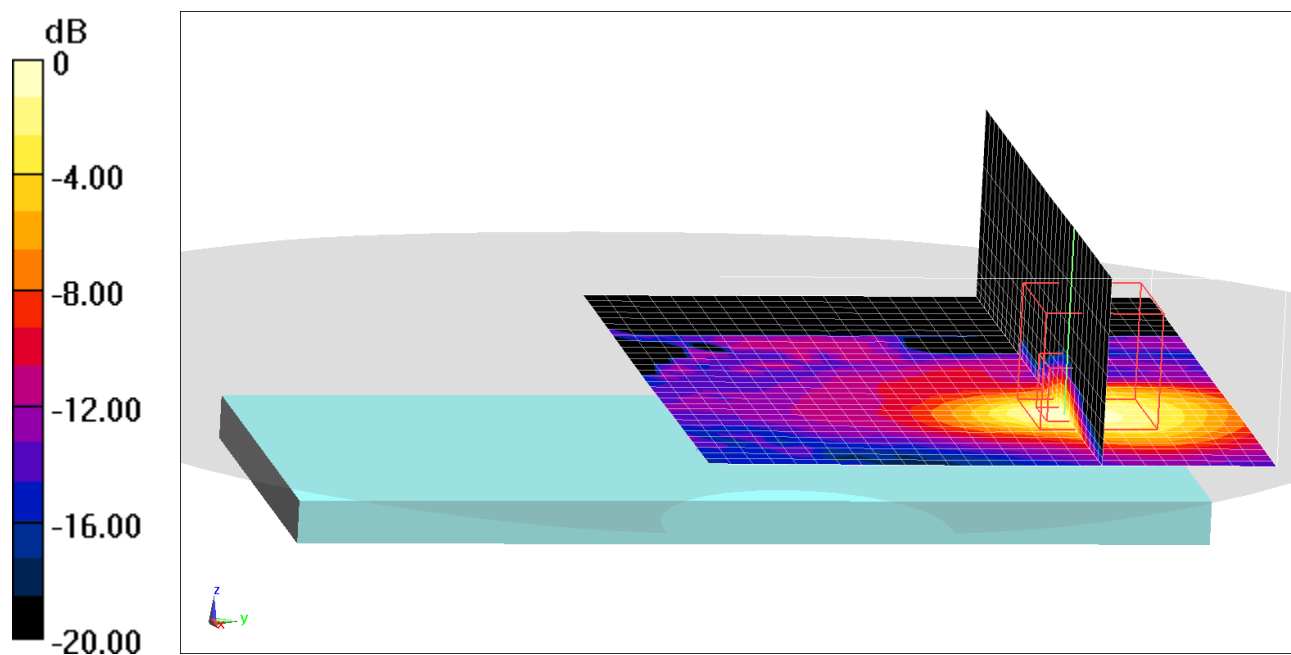
Communication System: UID 0, Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1.297

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2441 \text{ MHz}$; $\sigma = 2.008 \text{ S/m}$; $\epsilon_r = 52.158$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

**Multi Band Result:
SAR(1 g) = 1.02 W/kg**



PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01696

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/17/2020; Ambient Temp: 24.9°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7406; ConvF(7.96, 7.96, 7.96) @ 1745 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1583; Calibrated: 5/14/2020

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

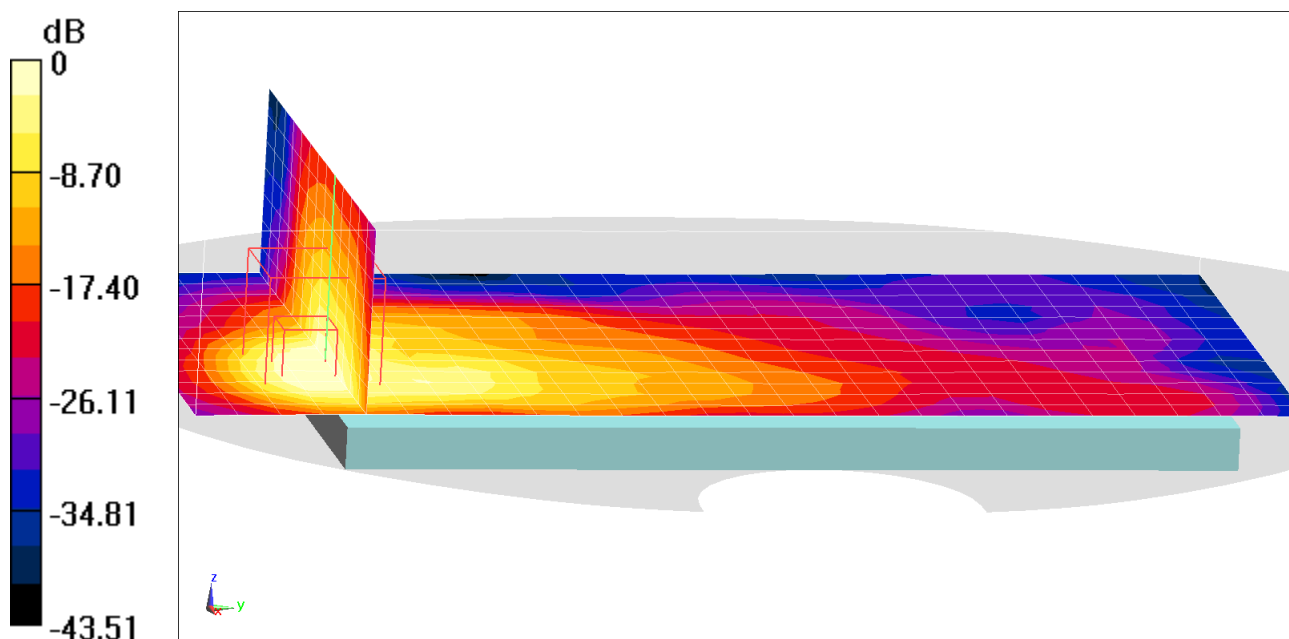
**Mode: LTE Band 66 (AWS), Dual Display Accessory Position #1, Phablet SAR, Back side,
Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

Zoom Scan (14x27x8)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 67.26 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(10 g) = 2.84 W/kg



PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01696

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/17/2020; Ambient Temp: 24.9°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7406; ConvF(7.96, 7.96, 7.96) @ 1745 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1583; Calibrated: 5/14/2020

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

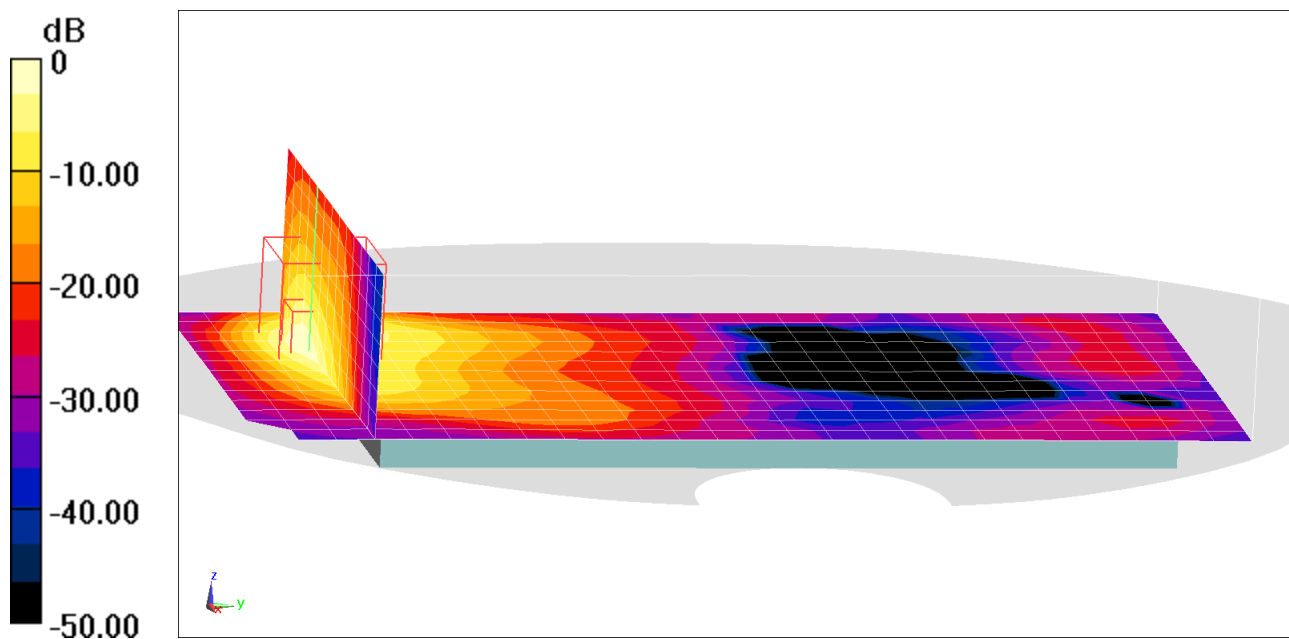
**Mode: LTE Band 66 (AWS), Dual Display Accessory Position #3, Phablet SAR, Front side
Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

Zoom Scan (14x27x8)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 64.59 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 15.6 W/kg

SAR(10 g) = 2.52 W/kg



0 dB = 12.5 W/kg = 10.97 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01704

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1905 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.539$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/20/2020; Ambient Temp: 22.5°C; Tissue Temp: 24.8°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1905 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

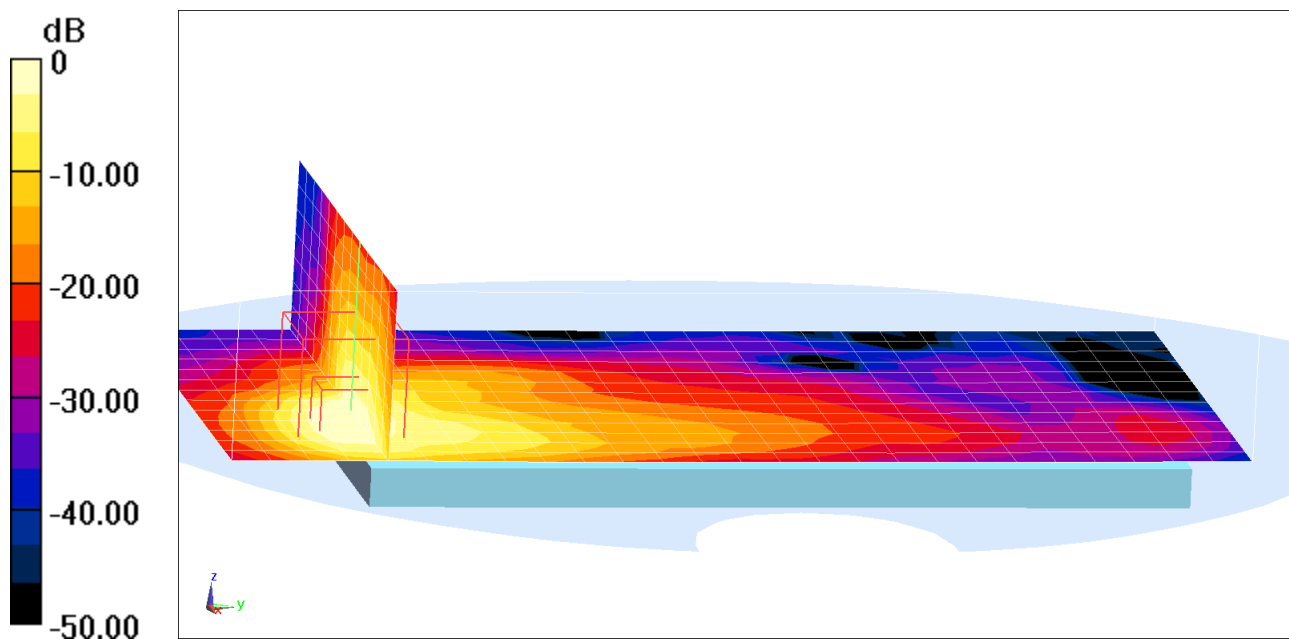
**Mode: LTE Band 25 (PCS), Dual Display Accessory Position #1, Phablet SAR, Back side
High.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

Zoom Scan (14x27x8)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 60.19 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 13.6 W/kg

SAR(10 g) = 2.99 W/kg



0 dB = 10.0 W/kg = 10.00 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01704

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1860 \text{ MHz}$; $\sigma = 1.52 \text{ S/m}$; $\epsilon_r = 51.649$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/20/2020; Ambient Temp: 22.5°C; Tissue Temp: 24.8°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1860 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

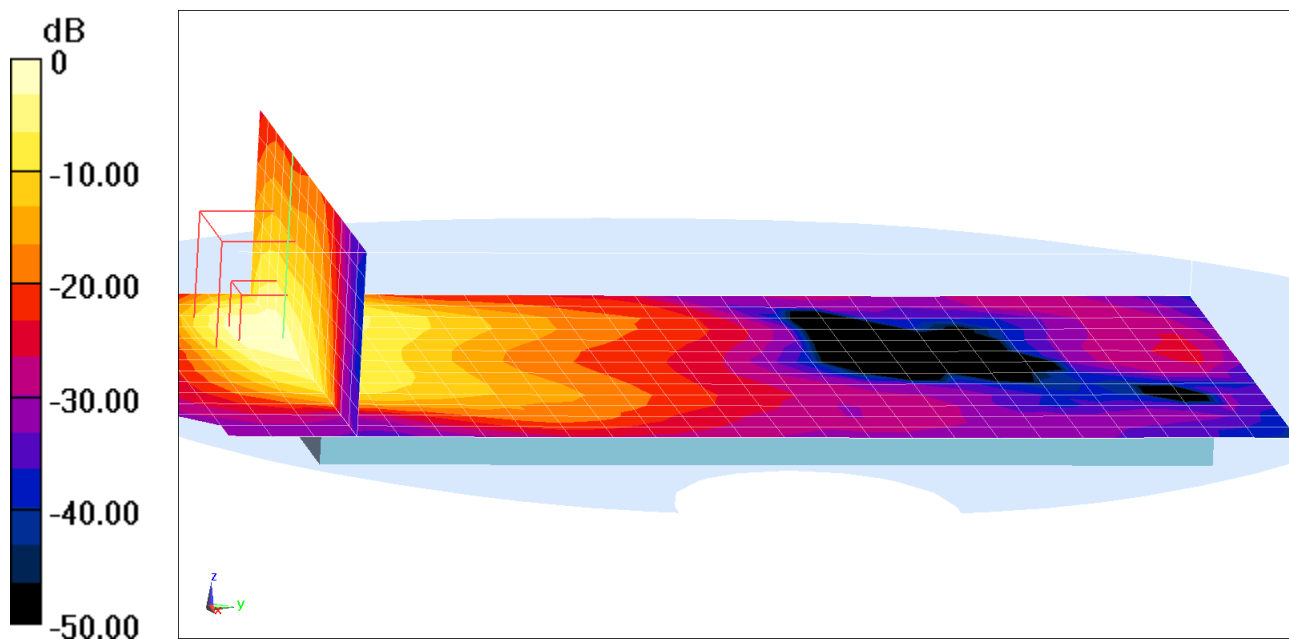
**Mode: LTE Band 25 (PCS), Dual Display Accessory Position #3, Phablet SAR, Front side,
Low.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

Zoom Scan (14x27x8)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 39.78 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 11.8 W/kg

SAR(10 g) = 2.04 W/kg



PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01720

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/17/2020; Ambient Temp: 24.9°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7406; ConvF(7.96, 7.96, 7.96) @ 1745 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1583; Calibrated: 5/14/2020

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

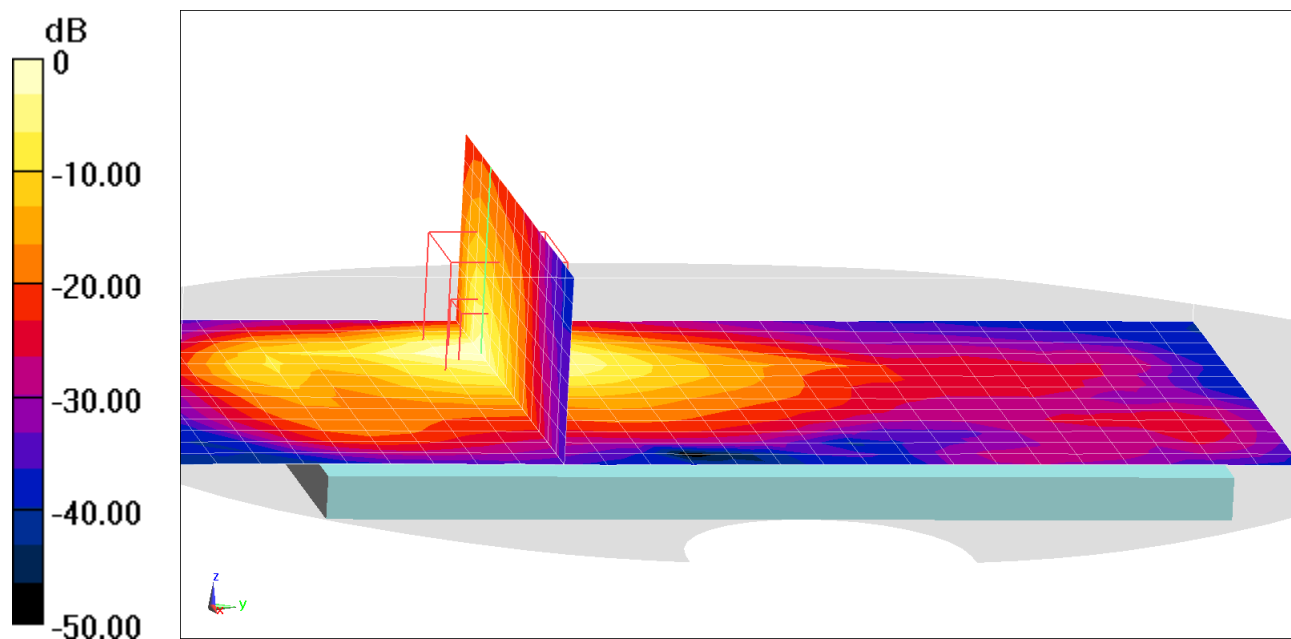
**Mode: NR Band n66, Ant 3, Phablet SAR, Back Side, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 349000, 108 RB, 54 RB Offset**

Zoom Scan (14x27x8)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.81 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 12.4 W/kg

SAR(10 g) = 2.2 W/kg



0 dB = 10.0 W/kg = 10.00 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 00128

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/17/2020; Ambient Temp: 24.9°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7406; ConvF(7.96, 7.96, 7.96) @ 1745 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1583; Calibrated: 5/14/2020

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

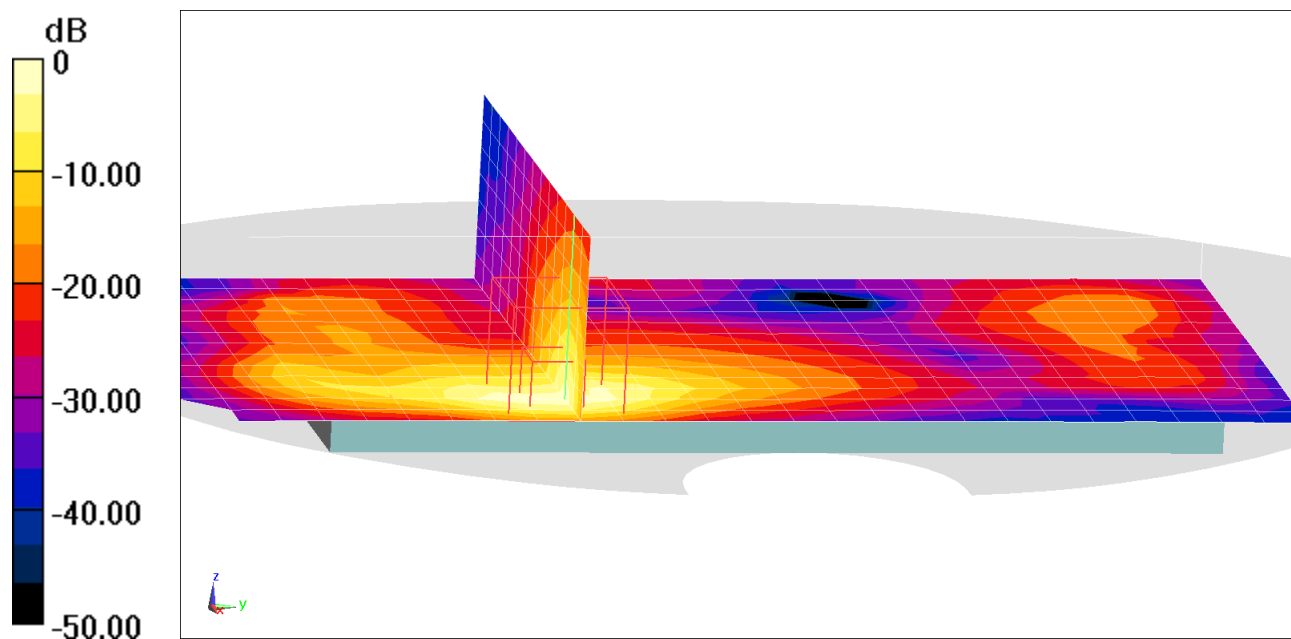
Mode: NR Band n66, Ant 3, Dual Display Accessory Position #3, Phablet SAR, Front Side
40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 349000, 1 RB, 108 RB Offset

Zoom Scan (14x27x8)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.30 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(10 g) = 2.07 W/kg



0 dB = 10.7 W/kg = 10.29 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01720

Communication System: UID 0, NR Band n25; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5 \text{ MHz}$; $\sigma = 1.55 \text{ S/m}$; $\epsilon_r = 51.436$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.2 cm

Test Date: 08/17/2020; Ambient Temp: 24.1°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7357; ConvF(7.8, 7.8, 7.8) @ 1882.5 MHz; Calibrated: 4/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/15/2020

Phantom: Twin-SAM V5.0 Right 30; Type: QD 000 P40 CD; Serial: 1759

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

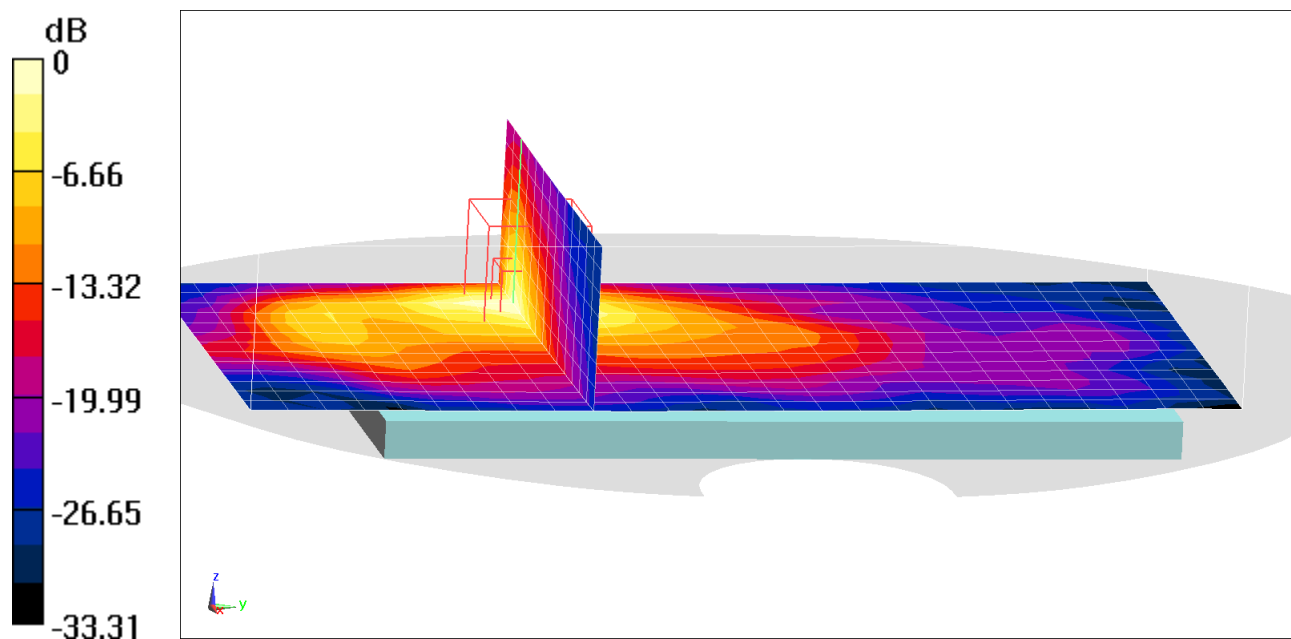
**Mode: NR Band n25, Ant 3, Phablet SAR, Back Side, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 376500, 108 RB, 54 RB Offset**

Zoom Scan (14x27x8)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.21 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 8.63 W/kg

SAR(10 g) = 1.78 W/kg



0 dB = 6.92 W/kg = 8.40 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01720

Communication System: UID 0, NR Band n25; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 51.436$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/17/2020; Ambient Temp: 24.1°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7357; ConvF(7.8, 7.8, 7.8) @ 1882.5 MHz; Calibrated: 4/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/15/2020

Phantom: Twin-SAM V5.0 Right 30; Type: QD 000 P40 CD; Serial: 1759

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

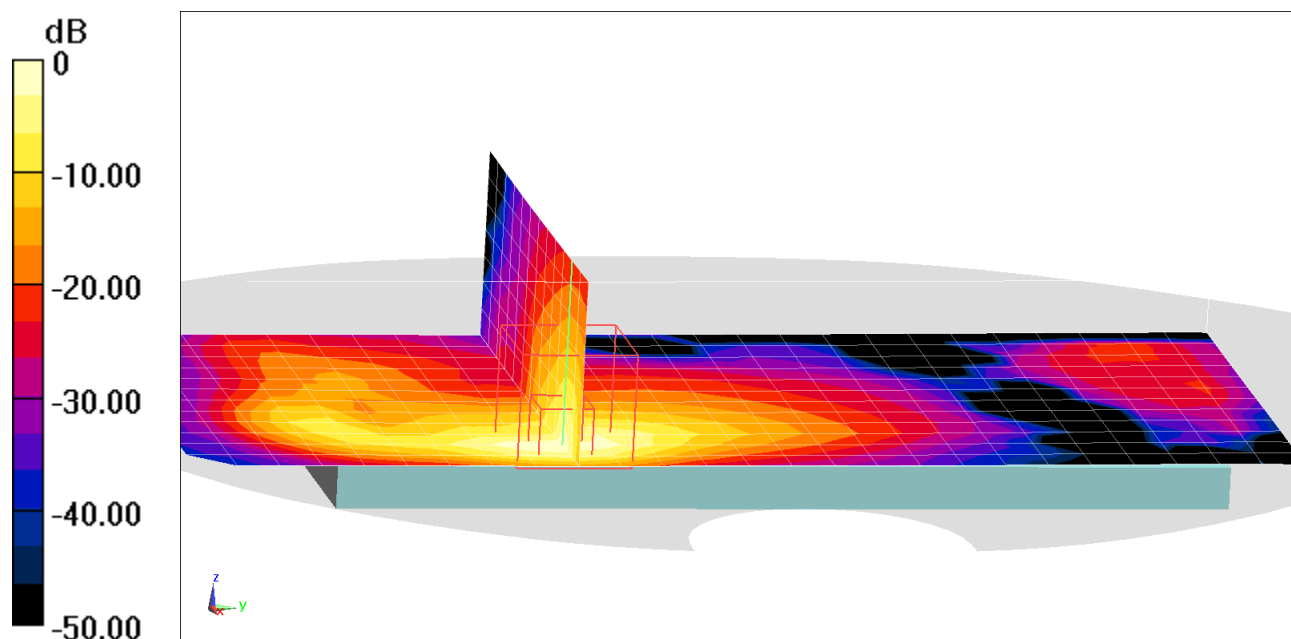
**Mode: NR Band n25, Ant 3, Dual Display Accessory Position #3, Phablet SAR, Front Side
40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 376500, 1 RB, 108 RB Offset**

Zoom Scan (13x27x8)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 65.06 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 14.0 W/kg

SAR(10 g) = 2.16 W/kg



0 dB = 11.6 W/kg = 10.64 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01464

Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/16/2020; Ambient Temp: 22.1°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7538; ConvF(4.6, 4.6, 4.6) @ 5280 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

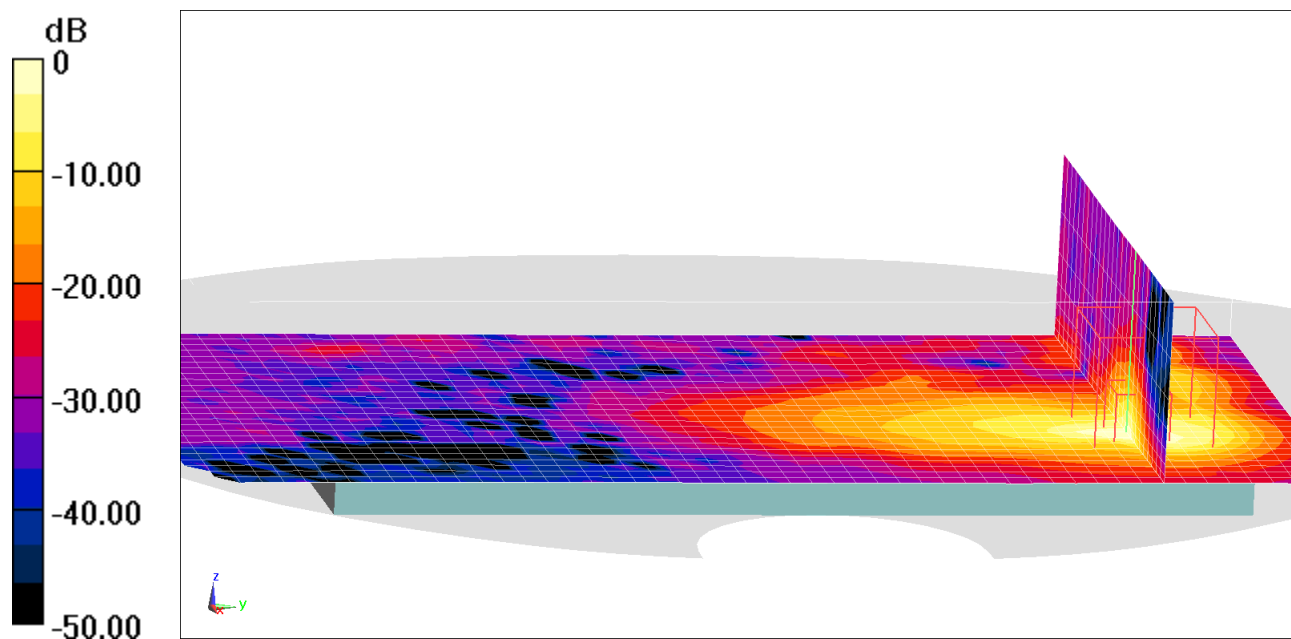
Mode: IEEE 802.11a, Antenna 1, U-NII-2A, 20 MHz Bandwidth, Phablet SAR, Ch 56, 6 Mbps, Back Side

Zoom Scan (27x53x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 1.428 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 29.5 W/kg

SAR(10 g) = 1.42 W/kg



PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01464

Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/16/2020; Ambient Temp: 22.1°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7538; ConvF(4.6, 4.6, 4.6) @ 5280 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

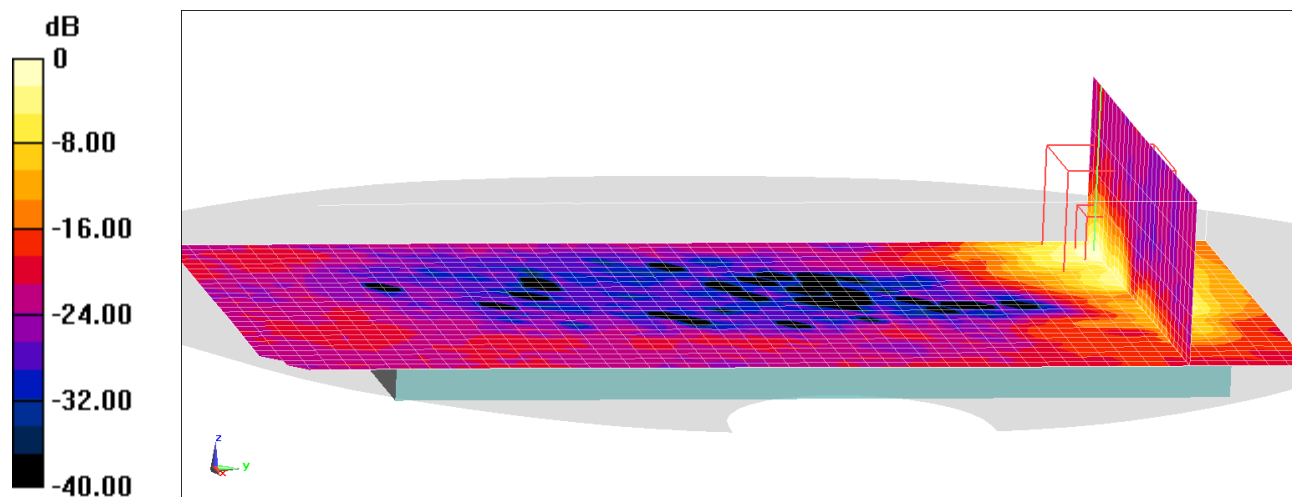
Mode: IEEE 802.11a, Antenna 1, U-NII-2A, 20 MHz Bandwidth, Phablet SAR, Ch 56, 6 Mbps, Front Side

Zoom Scan (27x53x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 1.997 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 5.45 W/kg

SAR(10 g) = 0.347 W/kg



0 dB = 2.85 W/kg = 4.55 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01464

Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5700 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5700 \text{ MHz}$; $\sigma = 6.068 \text{ S/m}$; $\epsilon_r = 46.438$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/16/2020; Ambient Temp: 22.1°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7538; ConvF(4.17, 4.17, 4.17) @ 5700 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

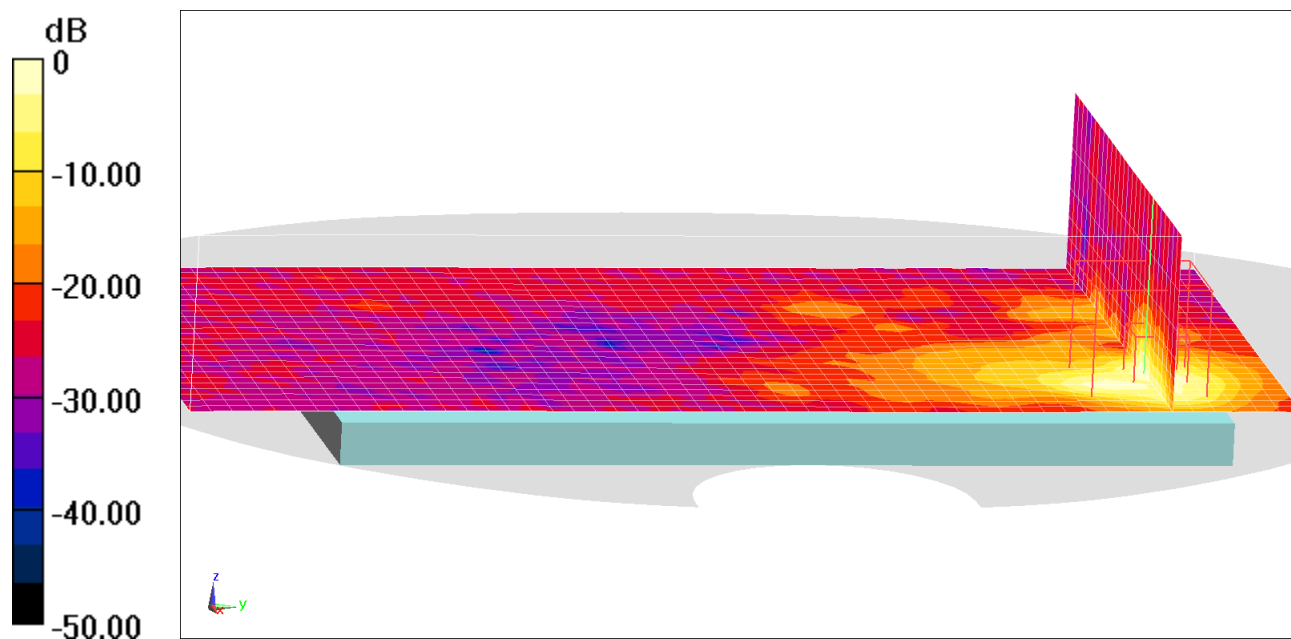
Mode: IEEE 802.11a, Antenna 2, U-NII-2C, 20 MHz Bandwidth
Phablet SAR, Ch 140, 6 Mbps, Back Side

Zoom Scan (27x53x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 1.848 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 12.9 W/kg

SAR(10 g) = 0.692 W/kg



0 dB = 6.85 W/kg = 8.36 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01464

Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/16/2020; Ambient Temp: 22.1°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7538; ConvF(4.6, 4.6, 4.6) @ 5280 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

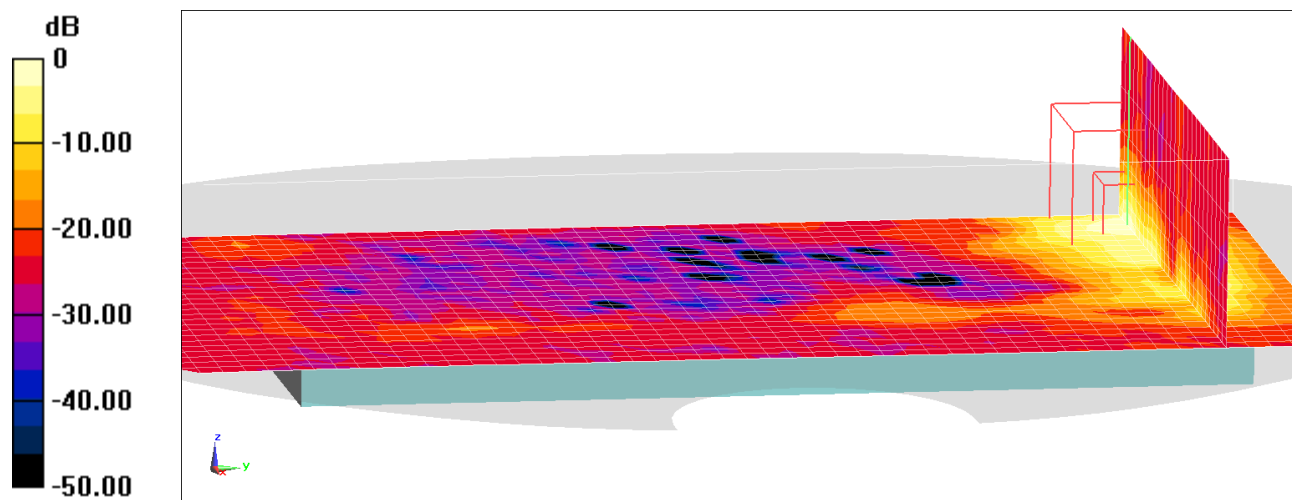
Mode: IEEE 802.11a, Antenna 2, U-NII-2A, 20 MHz Bandwidth, Phablet SAR, Ch 56, 6 Mbps, Front Side

Zoom Scan (27x53x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 2.026 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 8.14 W/kg

SAR(10 g) = 0.455 W/kg



0 dB = 4.53 W/kg = 6.56 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01464

Communication System: UID 0, 802.11n; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/16/2020; Ambient Temp: 22.1°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7538; ConvF(4.6, 4.6, 4.6) @ 5280 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

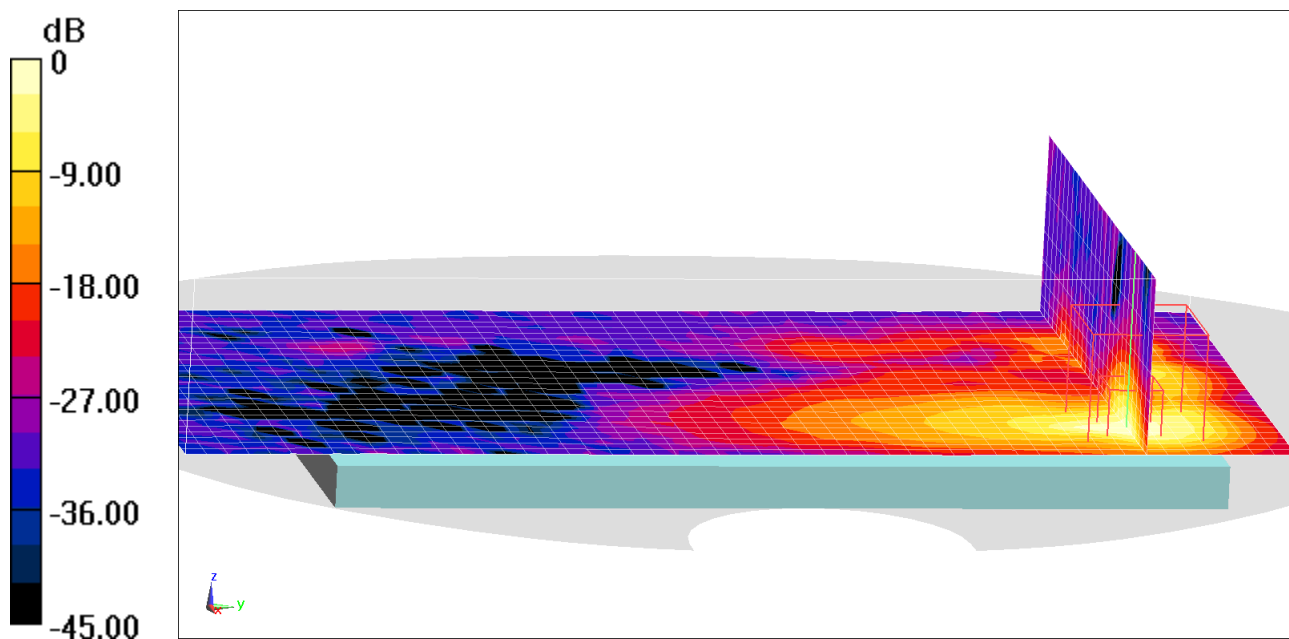
Mode: IEEE 802.11n, MIMO, U-NII-2A, 20 MHz Bandwidth, Phablet SAR, Ch 56, 13 Mbps, Back Side

Zoom Scan (27x53x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 3.578 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 31.3 W/kg

SAR(10 g) = 1.64 W/kg



0 dB = 16.7 W/kg = 12.23 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset; Serial: 01464

Communication System: UID 0, 802.11n; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/16/2020; Ambient Temp: 22.1°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7538; ConvF(4.6, 4.6, 4.6) @ 5280 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

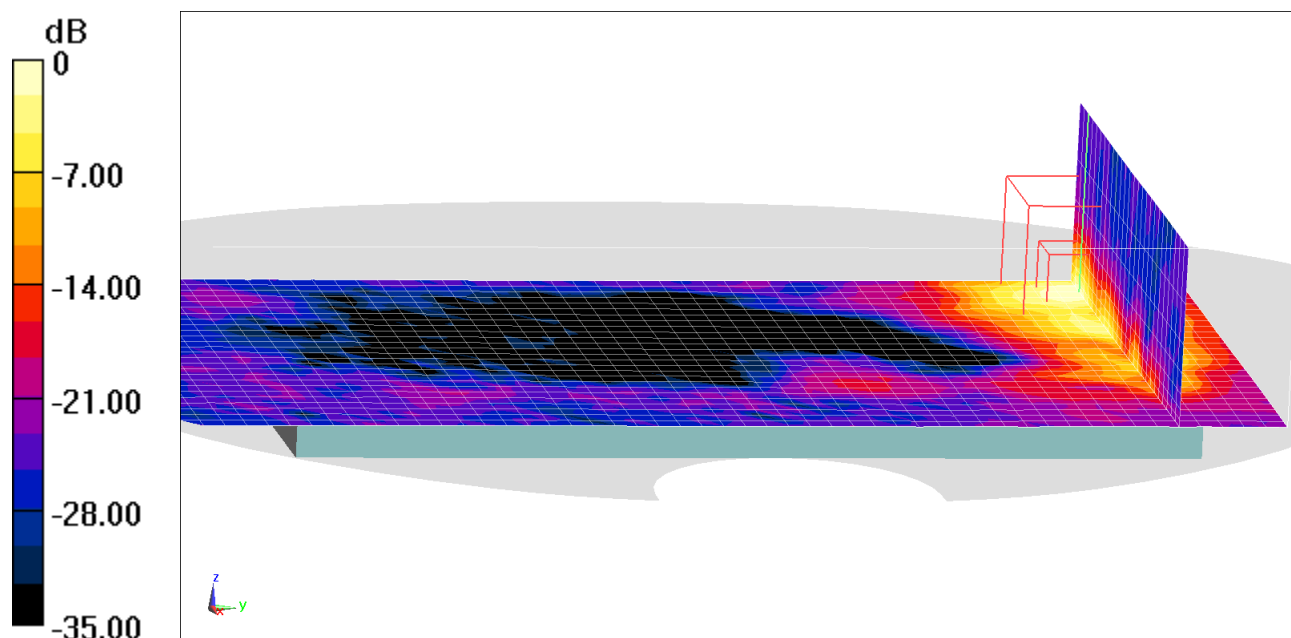
**Mode: IEEE 802.11n, MIMO, U-NII-2A, 20 MHz Bandwidth, Phablet SAR
Ch 56, 13 Mbps, Front Side**

Zoom Scan (27x53x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 4.108 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 11.9 W/kg

SAR(10 g) = 0.687 W/kg



PCTEST

DUT: ZNFG900TM; Type: Portable Handset

Mode: LTE Band 66 (AWS), Dual Display Accessory Position #1, Phablet SAR, Back side, Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.069

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Mode: NR Band n25, Ant 3, Phablet SAR, Back Side, 40 MHz Bandwidth DFT-s-OFDM QPSK, Ch. 376500, 108 RB, 54 RB Offset, Scaling Factor: 1.007

Communication System: UID 0, NR Band n25; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5 \text{ MHz}$; $\sigma = 1.55 \text{ S/m}$; $\epsilon_r = 51.436$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.2 cm

Mode: IEEE 802.11a, Antenna 1, U-NII-2A, 20 MHz Bandwidth Phablet SAR, Ch 56, 6 Mbps, Back Side, Scaling Factor: 1.064

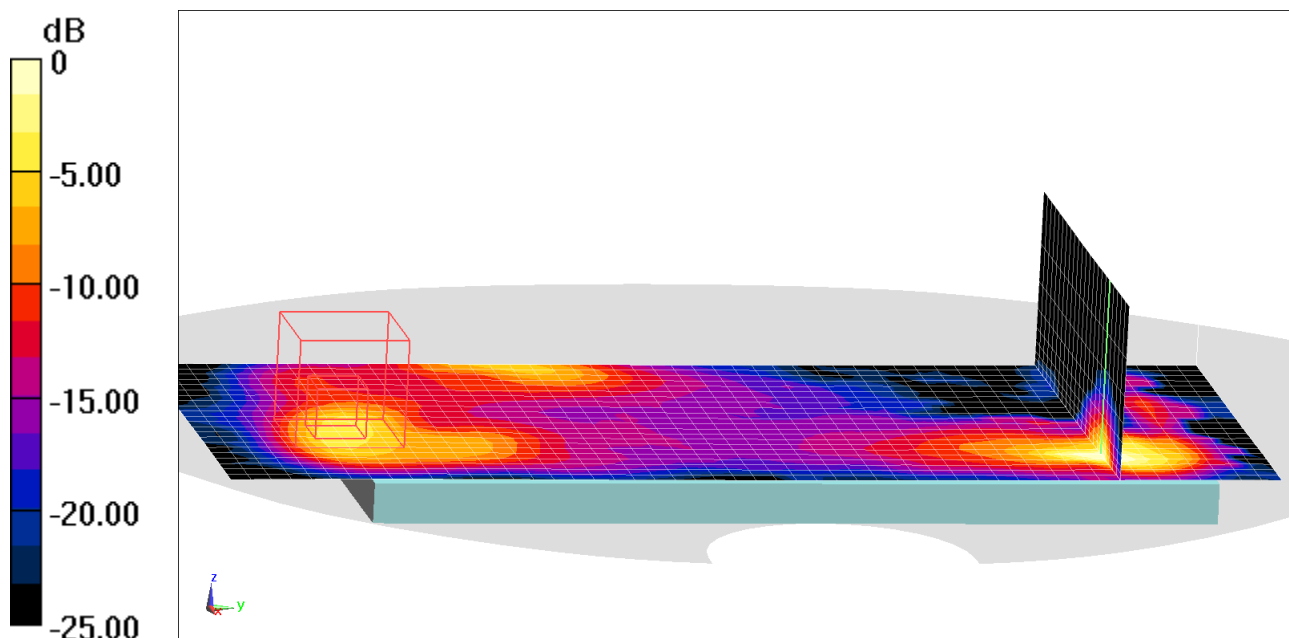
Communication System: UID 0, 802.11n; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Multi Band Result:
SAR(10 g) = 3.17 W/kg



0 dB = 29.6 W/kg = 14.71 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

Mode: LTE Band 66 (AWS), Dual Display Accessory Position #1, Phablet SAR, Back side, Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.069

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Mode: NR Band n25, Ant 3, Phablet SAR, Back Side, 40 MHz Bandwidth DFT-s-OFDM QPSK, Ch. 376500, 108 RB, 54 RB Offset, Scaling Factor: 1.007

Communication System: UID 0, NR Band n25; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5 \text{ MHz}$; $\sigma = 1.55 \text{ S/m}$; $\epsilon_r = 51.436$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.2 cm

Mode: IEEE 802.11a, Antenna 2, U-NII-2C, 20 MHz Bandwidth Phablet SAR, Ch 140, 6 Mbps, Back Side, Scaling Factor: 1.269

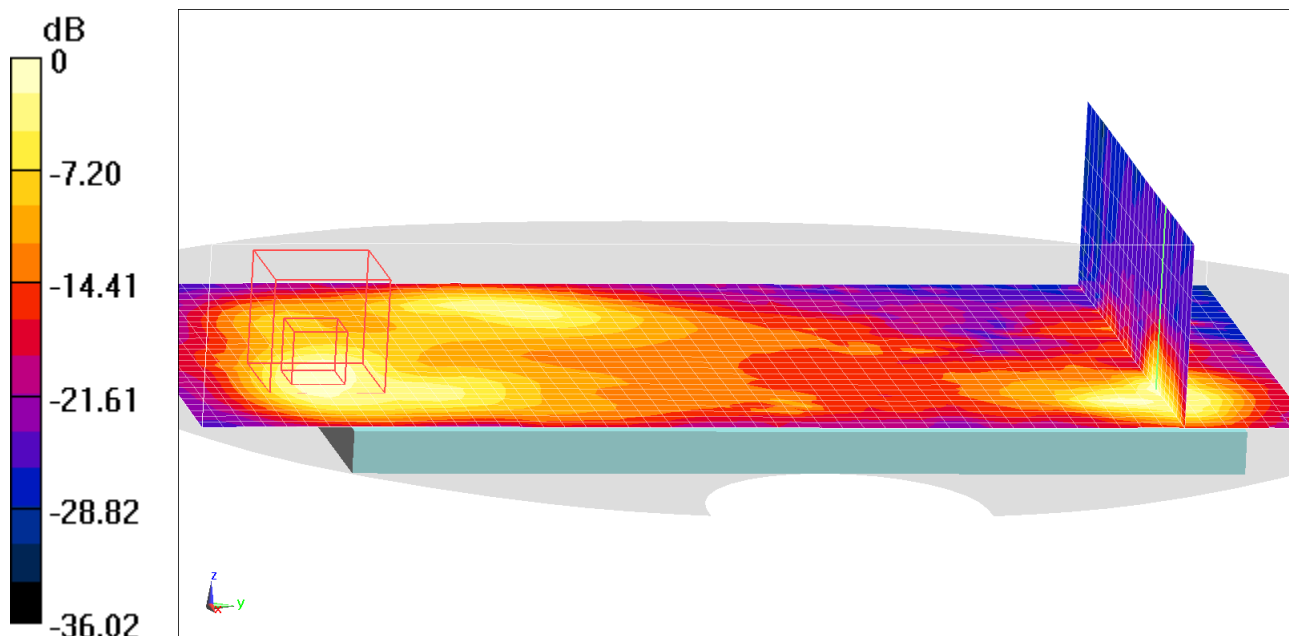
Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5700 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5700 \text{ MHz}$; $\sigma = 6.068 \text{ S/m}$; $\epsilon_r = 46.438$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Multi Band Result:
SAR(10 g) = 3.19 W/kg



PCTEST

DUT: ZNFG900TM; Type: Portable Handset

Mode: LTE Band 66 (AWS), Dual Display Accessory Position #1, Phablet SAR, Back side, Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.069

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Mode: NR Band n25, Ant 3, Phablet SAR, Back Side, 40 MHz Bandwidth DFT-s-OFDM QPSK, Ch. 376500, 108 RB, 54 RB Offset, Scaling Factor: 1.007

Communication System: UID 0, NR Band n25; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5 \text{ MHz}$; $\sigma = 1.55 \text{ S/m}$; $\epsilon_r = 51.436$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.2 cm

Mode: IEEE 802.11n, MIMO, U-NII-2A, 20 MHz Bandwidth Phablet SAR, Ch 56, 13 Mbps, Back Side, Scaling Factor: 1.303

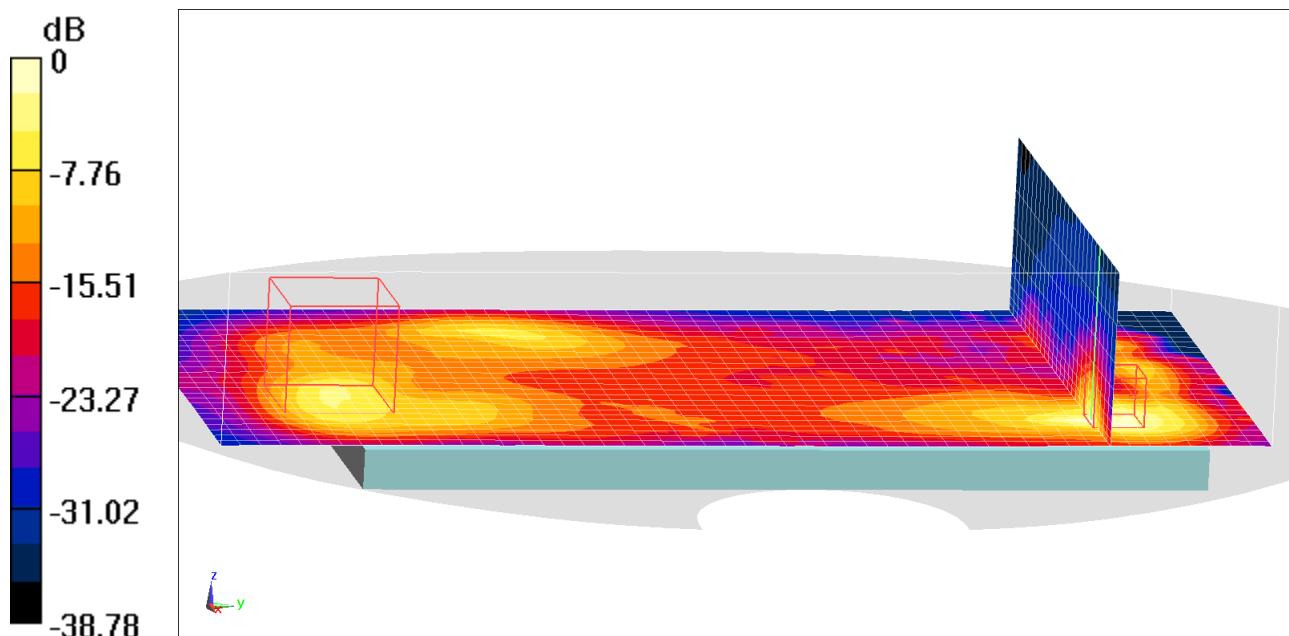
Communication System: UID 0, 802.11n; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Multi Band Result:
SAR(10 g) = 3.16 W/kg**



0 dB = 37.9 W/kg = 15.79 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

**Mode: NR Band n66, Ant 3, Phablet SAR, Back Side, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 349000, 108 RB, 54 RB Offset, Scaling Factor: 1.014**

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Mode: LTE Band 25 (PCS), Dual Display Accessory Position #1, Phablet SAR, Back side
High.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.007**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1905 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.539$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Mode: IEEE 802.11a, Antenna 1, U-NII-2A, 20 MHz Bandwidth

Phablet SAR, Ch 56, 6 Mbps, Back Side, Scaling Factor: 1.064

Communication System: UID 0, 802.11a; Frequency: 5280 MHz; Duty Cycle: 1:1

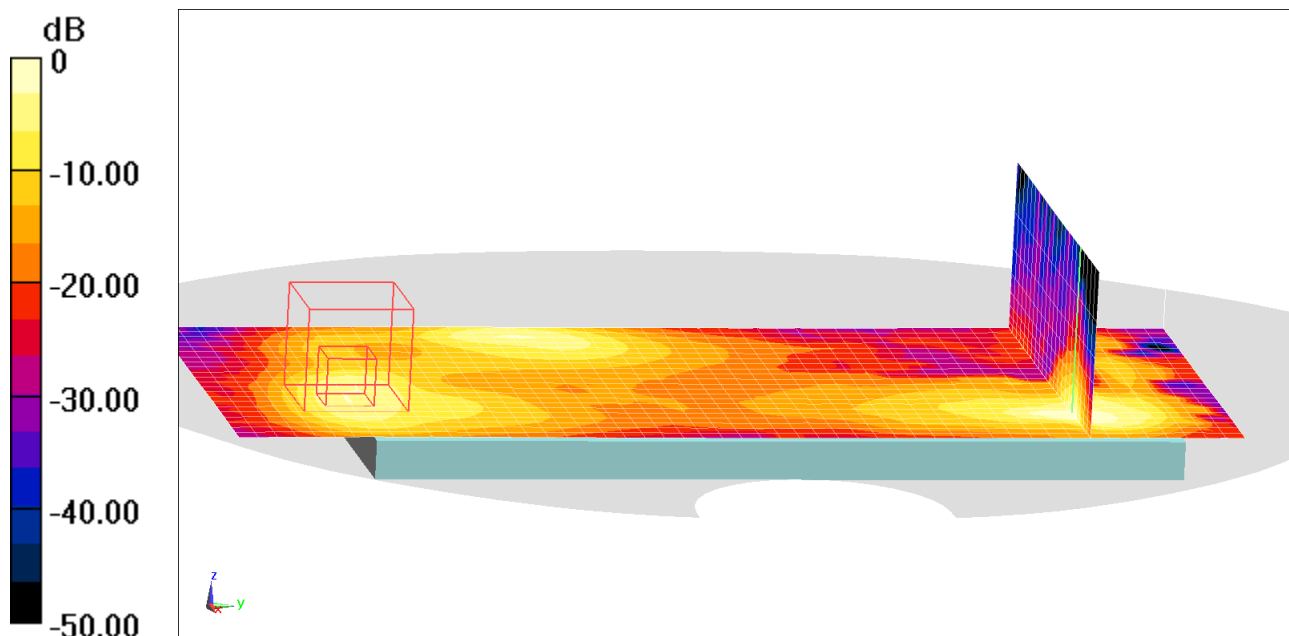
Medium: 5200-5800 Body; Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Multi Band Result:

SAR(10 g) = 2.77 W/kg



0 dB = 24.1 W/kg = 13.82 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

**Mode: NR Band n66, Ant 3, Phablet SAR, Back Side, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 349000, 108 RB, 54 RB Offset, Scaling Factor: 1.014**

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Mode: LTE Band 25 (PCS), Dual Display Accessory Position #1, Phablet SAR, Back side
High.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.007**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1905 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.539$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Mode: IEEE 802.11a, Antenna 2, U-NII-2C, 20 MHz Bandwidth
Phablet SAR, Ch 140, 6 Mbps, Back Side, Scaling Factor: 1.269**

Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5700 MHz; Duty Cycle: 1:1

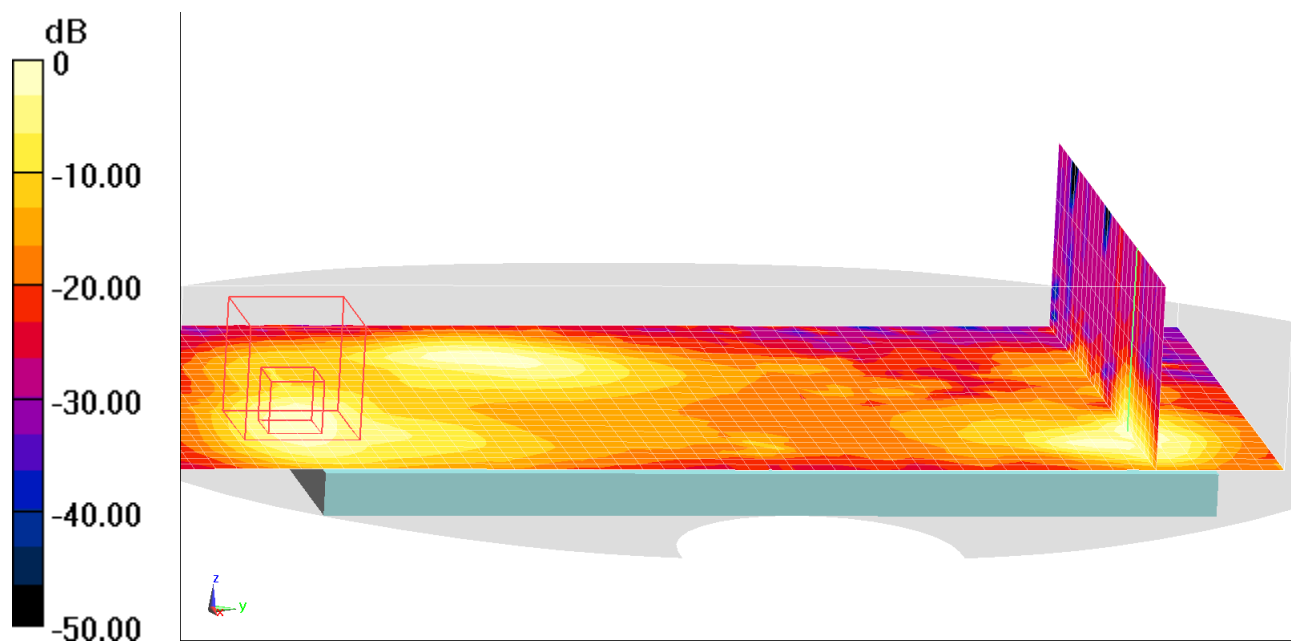
Medium: 5200-5800 Body; Medium parameters used:

$f = 5700 \text{ MHz}$; $\sigma = 6.068 \text{ S/m}$; $\epsilon_r = 46.438$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Multi Band Result:

SAR(10 g) = 2.78 W/kg



PCTEST

DUT: ZNFG900TM; Type: Portable Handset

**Mode: NR Band n66, Ant 3, Phablet SAR, Back Side, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 349000, 108 RB, 54 RB Offset, Scaling Factor: 1.014**

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Mode: LTE Band 25 (PCS), Dual Display Accessory Position #1, Phablet SAR, Back side
High.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.007**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1905 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 51.539$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Mode: IEEE 802.11n, MIMO, U-NII-2A, 20 MHz Bandwidth
Phablet SAR, Ch 56, 13 Mbps, Back Side, Scaling Factor: 1.303**

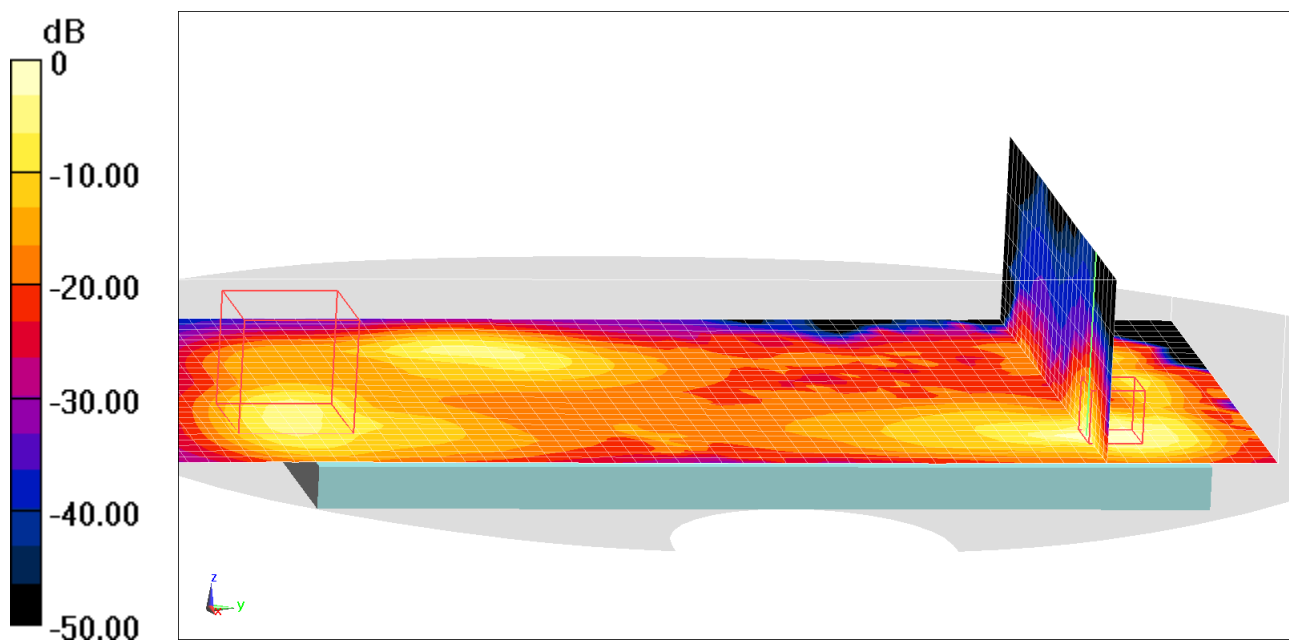
Communication System: UID 0, 802.11n; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Multi Band Result:
SAR(10 g) = 2.75 W/kg**



PCTEST

DUT: ZNFG900TM; Type: Portable Handset

Mode: NR Band n25, Ant 3, Dual Display Accessory Position #3, Phablet SAR, Front Side, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 376500, 1 RB, 108 RB Offset
Scaling Factor: 1.009

Communication System: UID 0, NR Band n25; Frequency: 1882.5 MHz; Duty Cycle: 1:1
Medium: 1900 Body; Medium parameters used (interpolated):
 $f = 1882.5$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 51.436$; $\rho = 1000$ kg/m³
Phantom section: Flat Section; Space: 0.0 cm

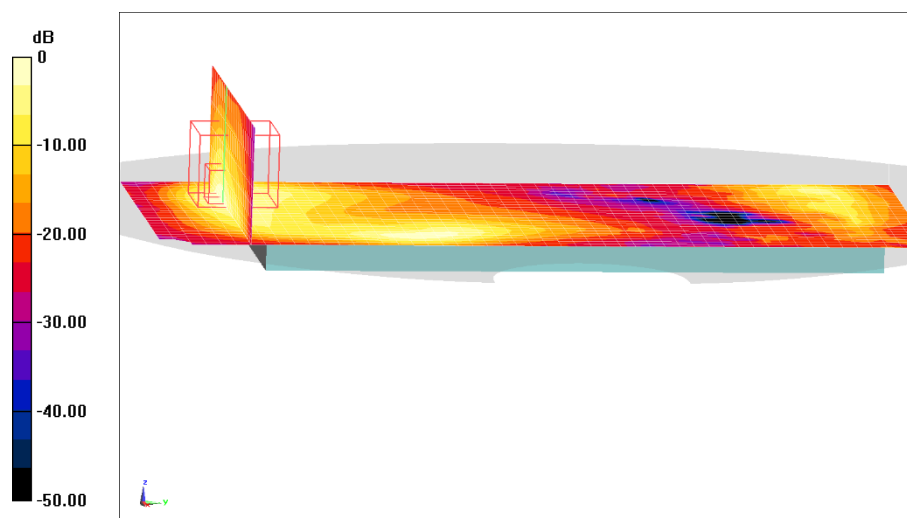
Mode: LTE Band 66 (AWS), Dual Display Accessory Position #3, Phablet SAR, Front side Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.069

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium: 1750 Body; Medium parameters used:
 $f = 1745$ MHz; $\sigma = 1.53$ S/m; $\epsilon_r = 51.849$; $\rho = 1000$ kg/m³
Phantom section: Flat Section; Space: 0.0 cm

Mode: IEEE 802.11a, Antenna 1, U-NII-2A, 20 MHz Bandwidth, Phablet SAR, Ch 56, 6 Mbps, Front Side, Scaling Factor: 1.064

Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5280 MHz; Duty Cycle: 1:1
Medium: 5200-5800 Body Medium parameters used:
 $f = 5280$ MHz; $\sigma = 5.511$ S/m; $\epsilon_r = 47.154$; $\rho = 1000$ kg/m³
Phantom section: Flat Section; Space: 0.0 cm

Multi Band Result:
SAR(10 g) = 2.77 W/kg



0 dB = 16.0 W/kg = 12.04 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

Mode: NR Band n25, Ant 3, Dual Display Accessory Position #3, Phablet SAR, Front Side, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 376500, 1 RB, 108 RB Offset
Scaling Factor: 1.009

Communication System: UID 0, NR Band n25; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 51.436$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Mode: LTE Band 66 (AWS), Dual Display Accessory Position #3, Phablet SAR, Front side Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.069

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745$ MHz; $\sigma = 1.53$ S/m; $\epsilon_r = 51.849$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Mode: IEEE 802.11a, Antenna 2, U-NII-2A, 20 MHz Bandwidth, Phablet SAR, Ch 56, 6 Mbps, Front Side, Scaling Factor: 1.254

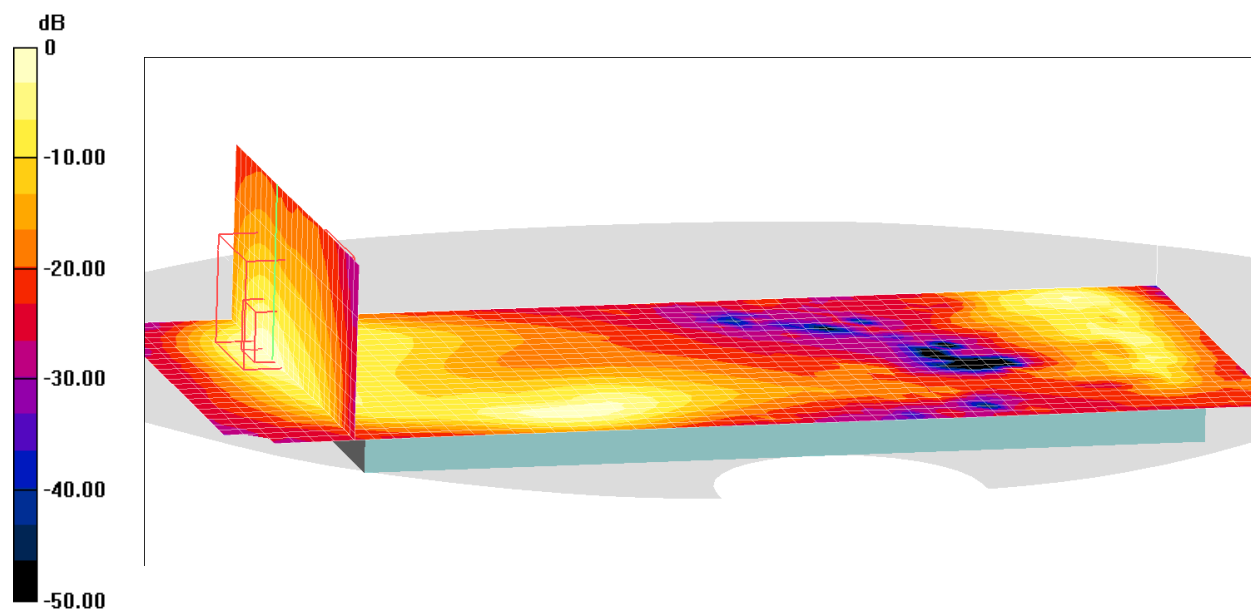
Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5280$ MHz; $\sigma = 5.511$ S/m; $\epsilon_r = 47.154$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Multi Band Result:
SAR(10 g) = 2.79 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

Mode: NR Band n25, Ant 3, Dual Display Accessory Position #3, Phablet SAR, Front Side, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 376500, 1 RB, 108 RB Offset

Scaling Factor: 1.009

Communication System: UID 0, NR Band n25; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5$ MHz; $\sigma = 1.55$ S/m; $\epsilon_r = 51.436$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Mode: LTE Band 66 (AWS), Dual Display Accessory Position #3, Phablet SAR, Front side Mid.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.069

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745$ MHz; $\sigma = 1.53$ S/m; $\epsilon_r = 51.849$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Mode: IEEE 802.11n, MIMO, U-NII-2A, 20 MHz Bandwidth, Phablet SAR Ch 56, 13 Mbps, Front Side, Scaling Factor: 1.303

Communication System: UID 0, 802.11n; Frequency: 5280 MHz; Duty Cycle: 1:1

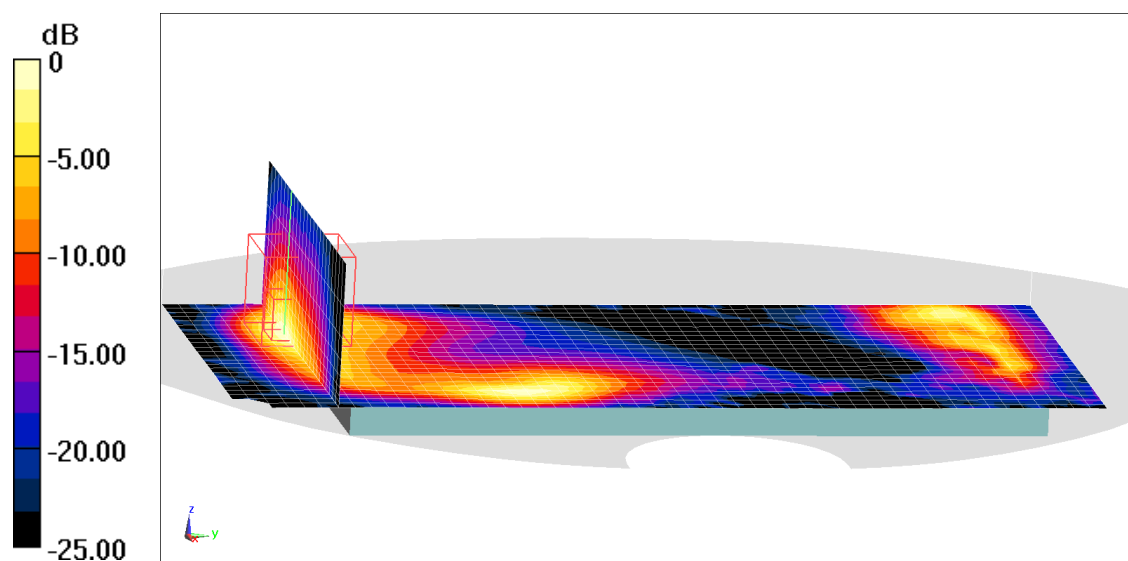
Medium: 5200-5800 Body; Medium parameters used:

$f = 5280$ MHz; $\sigma = 5.511$ S/m; $\epsilon_r = 47.154$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Multi Band Result:

SAR(10 g) = 2.75 W/kg



0 dB = 16.0 W/kg = 12.04 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

Mode: LTE Band 25 (PCS), Dual Display Accessory Position #3, Phablet SAR, Front side, Low.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.104

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1860 \text{ MHz}$; $\sigma = 1.52 \text{ S/m}$; $\epsilon_r = 51.649$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Mode: NR Band n66, Ant 3, Dual Display Accessory Position #3, Phablet SAR, Front Side, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 349000, 1 RB, 108 RB Offset
Scaling Factor: 1.028**

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Mode: IEEE 802.11a, Antenna 1, U-NII-2A, 20 MHz Bandwidth, Phablet SAR, Ch 56, 6 Mbps, Front Side, Scaling Factor: 1.064

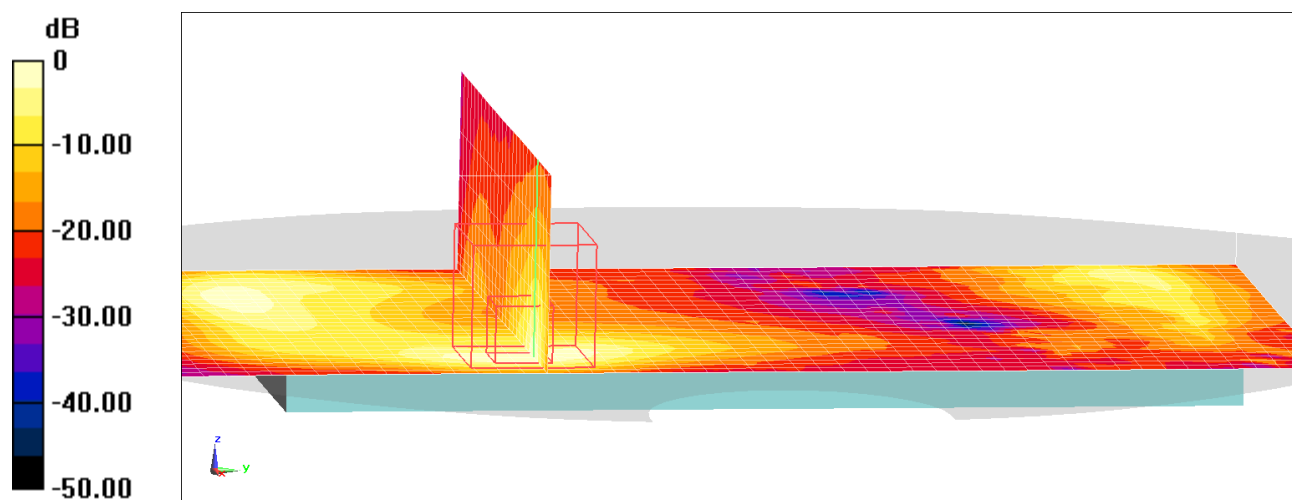
Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Multi Band Result:
SAR(10 g) = 2.21 W/kg**



0 dB = 13.3 W/kg = 11.24 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

Mode: LTE Band 25 (PCS), Dual Display Accessory Position #3, Phablet SAR, Front side, Low.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.104

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1860 \text{ MHz}$; $\sigma = 1.52 \text{ S/m}$; $\epsilon_r = 51.649$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Mode: NR Band n66, Ant 3, Dual Display Accessory Position #3, Phablet SAR, Front Side, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 349000, 1 RB, 108 RB Offset
Scaling Factor: 1.028**

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Mode: IEEE 802.11a, Antenna 2, U-NII-2A, 20 MHz Bandwidth, Phablet SAR, Ch 56, 6 Mbps, Front Side, Scaling Factor: 1.254

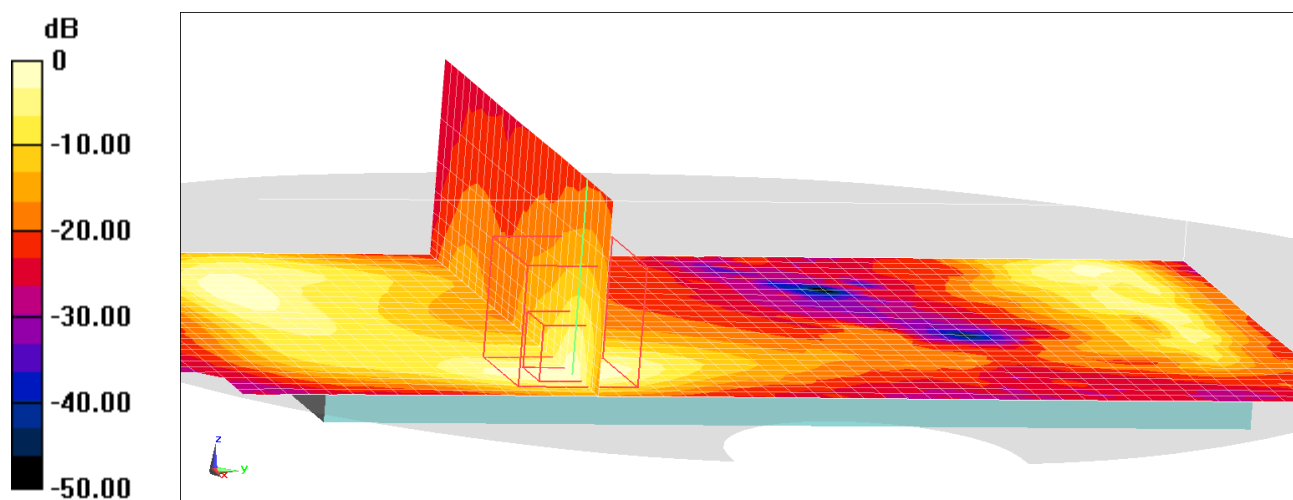
Communication System: UID 0, 802.11a 5.2-5.8 GHz Band; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Multi Band Result:
SAR(10 g) = 2.22 W/kg**



0 dB = 13.3 W/kg = 11.24 dBW/kg

PCTEST

DUT: ZNFG900TM; Type: Portable Handset

Mode: LTE Band 25 (PCS), Dual Display Accessory Position #3, Phablet SAR, Front side, Low.ch, 20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset, Scaling Factor: 1.104

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1860 \text{ MHz}$; $\sigma = 1.52 \text{ S/m}$; $\epsilon_r = 51.649$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Mode: NR Band n66, Ant 3, Dual Display Accessory Position #3, Phablet SAR, Front Side, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 349000, 1 RB, 108 RB Offset
Scaling Factor: 1.028**

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.53 \text{ S/m}$; $\epsilon_r = 51.849$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Mode: IEEE 802.11n, MIMO, U-NII-2A, 20 MHz Bandwidth, Phablet SAR
Ch 56, 13 Mbps, Front Side, Scaling Factor: 1.303**

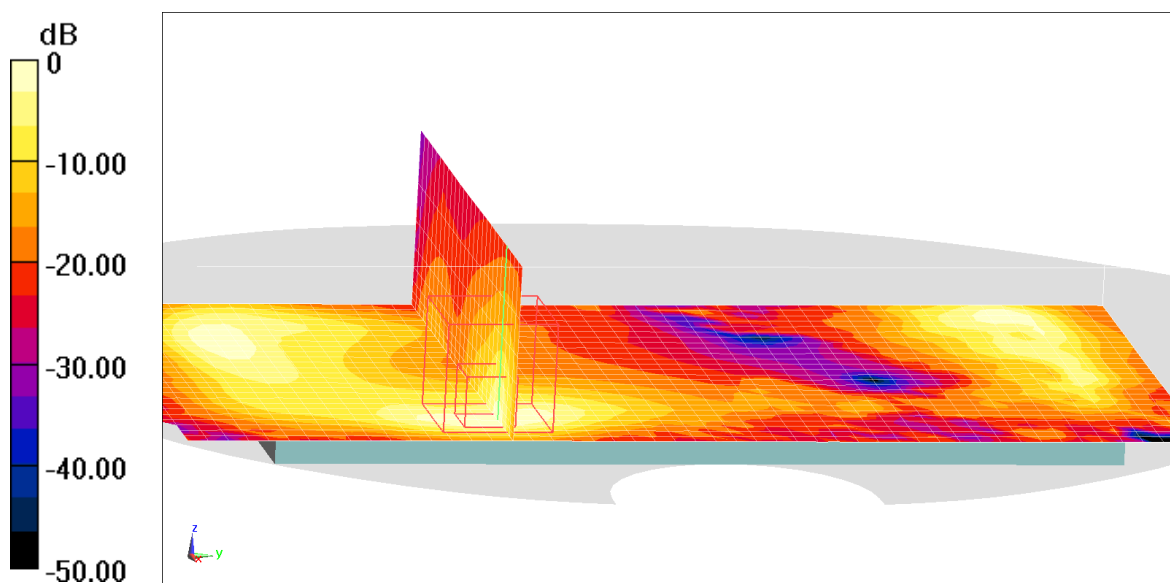
Communication System: UID 0, 802.11n; Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5280 \text{ MHz}$; $\sigma = 5.511 \text{ S/m}$; $\epsilon_r = 47.154$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

**Multi Band Result:
SAR(10 g) = 2.20 W/kg**



0 dB = 13.2 W/kg = 11.21 dBW/kg

J.2 Test System Verification Table and Plots

Table J-1
System Verification Results – 1g

System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{1g} (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
E	750	BODY	08/17/2020	23.8	21.7	0.200	1054	3589	1.840	8.530	9.200	7.85%
L	1750	BODY	08/17/2020	24.9	21.9	0.100	1150	7406	3.880	36.600	38.800	6.01%
J	1900	BODY	08/17/2020	20.9	22.7	0.100	5d080	7571	4.210	39.200	42.100	7.40%
K	2450	BODY	08/13/2020	22.2	22.1	0.100	981	7409	5.040	50.900	50.400	-0.98%
G	5250	BODY	08/10/2020	23.1	23.1	0.050	1237	7538	3.600	75.600	72.000	-4.76%
G	5600	BODY	08/10/2020	23.1	23.1	0.050	1237	7538	3.920	78.500	78.400	-0.13%
G	5750	BODY	08/10/2020	23.1	23.1	0.050	1237	7538	3.730	75.900	74.600	-1.71%

Table J-2
System Verification Results – 10g

System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{10g} (W/kg)	1 W Target SAR _{10g} (W/kg)	1 W Normalized SAR _{10g} (W/kg)	Deviation _{10g} (%)
L	1750	BODY	08/17/2020	24.9	21.9	0.100	1150	7406	2.030	19.400	20.300	4.64%
J	1900	BODY	08/17/2020	20.9	22.7	0.100	5d080	7571	2.150	20.600	21.500	4.37%
J	1900	BODY	08/20/2020	22.5	24.8	0.100	5d080	7571	2.190	20.600	21.900	6.31%
H	1900	BODY	08/17/2020	24.1	23.1	0.100	5d149	7357	2.170	20.700	21.700	4.83%
G	5250	BODY	08/16/2020	22.1	22.6	0.050	1237	7538	1.000	21.200	20.000	-5.66%
G	5600	BODY	08/16/2020	22.1	22.6	0.050	1237	7538	1.040	22.000	20.800	-5.45%
G	5750	BODY	08/16/2020	22.1	22.6	0.050	1237	7538	0.991	21.200	19.820	-6.51%

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1054

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.968 \text{ S/m}$; $\epsilon_r = 53.702$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 08/17/2020; Ambient Temp: 23.80 °C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN3589; ConvF(8.49, 8.49, 8.49) @ 750 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

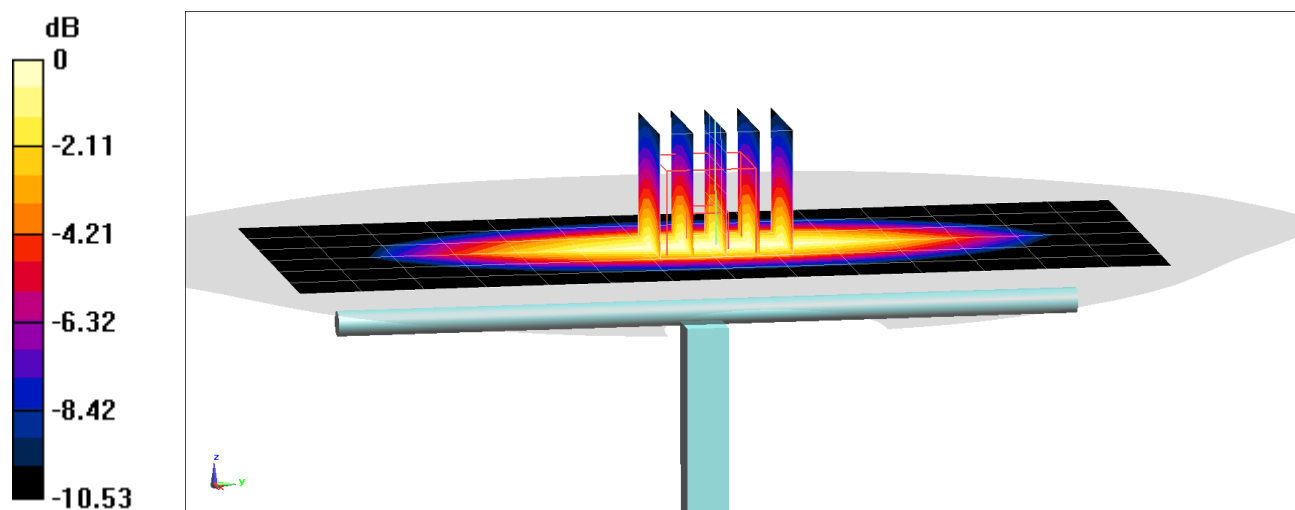
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.84 W/kg

SAR(1 g) = 1.84 W/kg

Deviation(1 g) = 7.85%



0 dB = 2.48 W/kg = 3.94 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.536 \text{ S/m}$; $\epsilon_r = 51.83$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Sectio; Space: 1.0 cm

Test Date: 08/17/2020; Ambient Temp: 24.9°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7406; ConvF(7.96, 7.96, 7.96) @ 1750 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1583; Calibrated: 5/14/2020

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

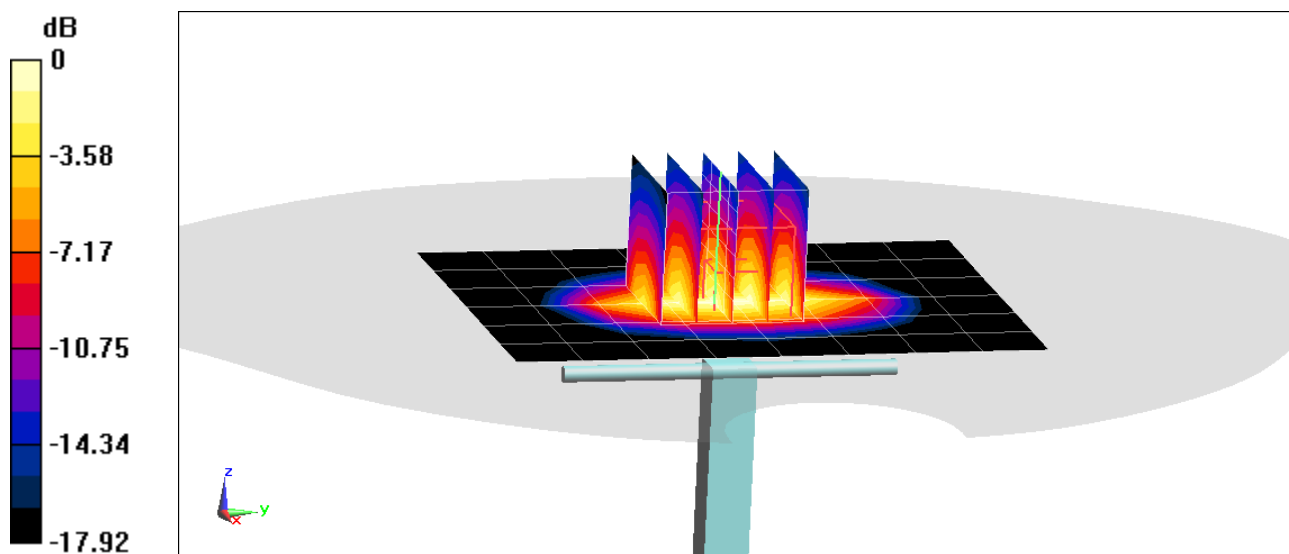
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.15 W/kg

SAR(1 g) = 3.88 W/kg; SAR(10 g) = 2.03 W/kg

Deviation(1 g) = 6.01%; Deviation(10 g) = 4.64%



PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.544 \text{ S/m}$; $\epsilon_r = 52.943$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/17/2020; Ambient Temp: 20.9°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1900 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

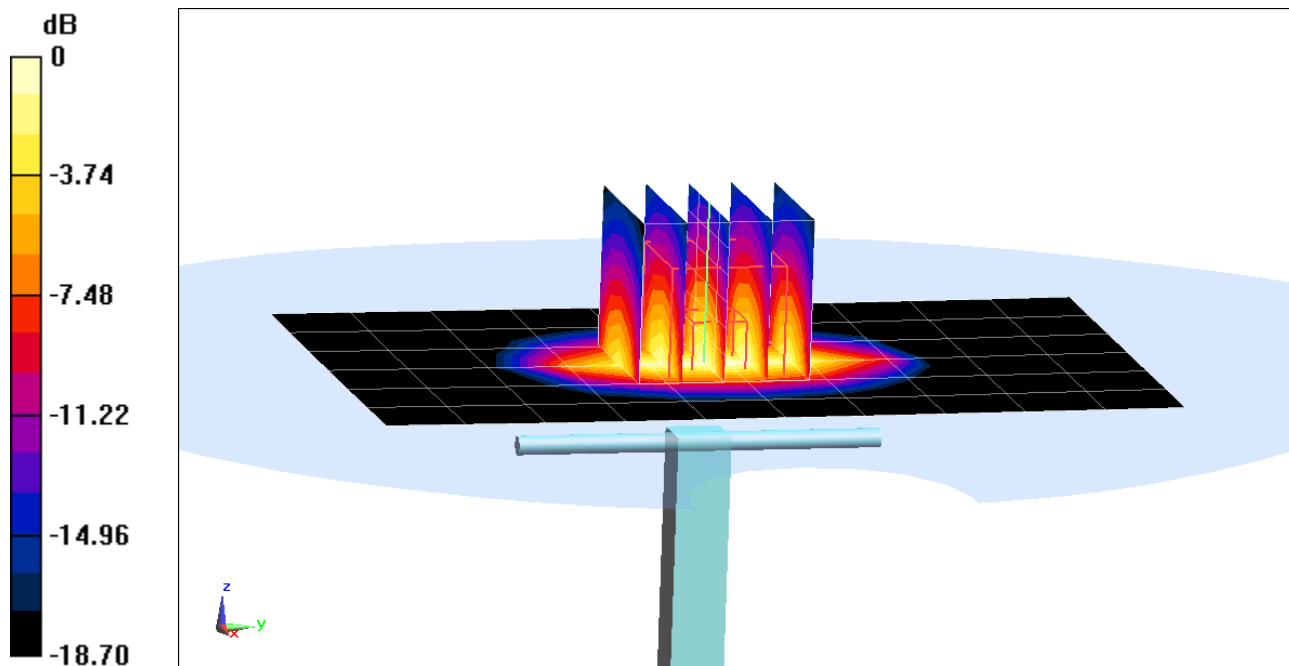
Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.86 W/kg

SAR(1 g) = 4.21 W/kg; SAR(10 g) = 2.15 W/kg

Deviation(1 g) = 7.40%; Deviation(10 g) = 4.37%



0 dB = 6.54 W/kg = 8.16 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.564 \text{ S/m}$; $\epsilon_r = 51.55$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/20/2020; Ambient Temp: 22.5°C; Tissue Temp: 24.8°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1900 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

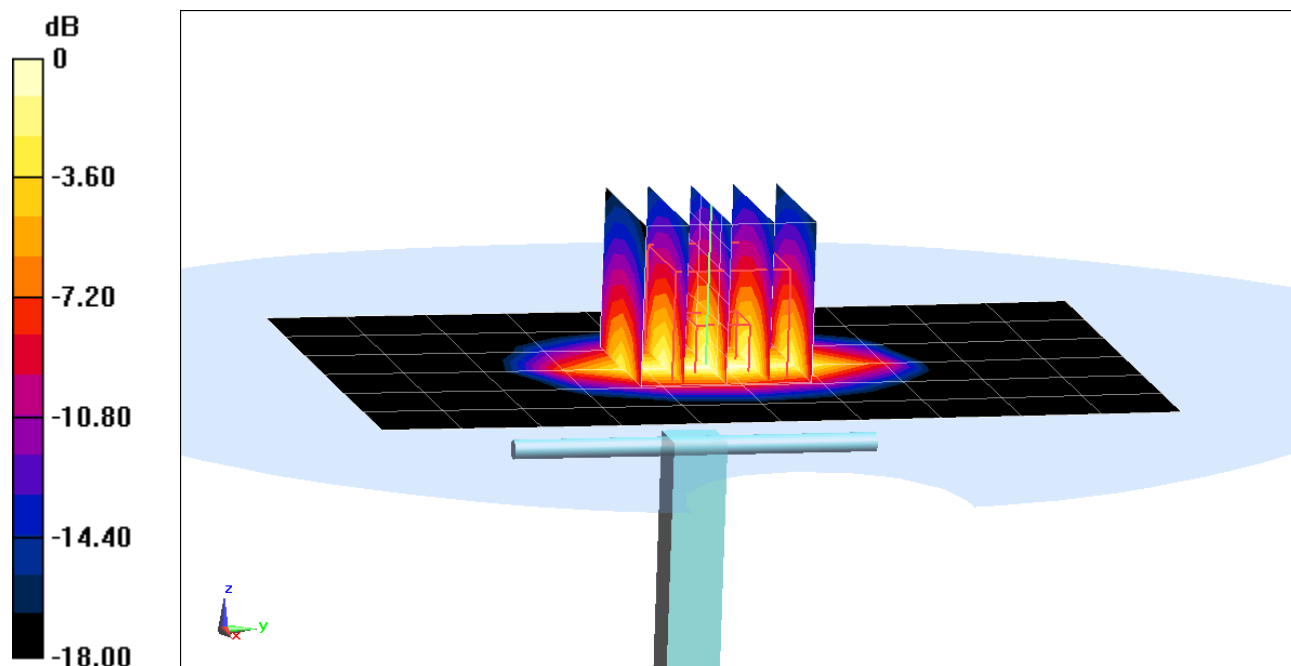
Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.72 W/kg

SAR(10 g) = 2.19 W/kg

Deviation(10 g) = 6.31%



0 dB = 6.50 W/kg = 8.13 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d149

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.568 \text{ S/m}$; $\epsilon_r = 51.377$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/17/2020; Ambient Temp: 24.1°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7357; ConvF(7.8, 7.8, 7.8) @ 1900 MHz; Calibrated: 4/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/15/2020

Phantom: Twin-SAM V5.0 Right 30; Type: QD 000 P40 CD; Serial: 1759

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

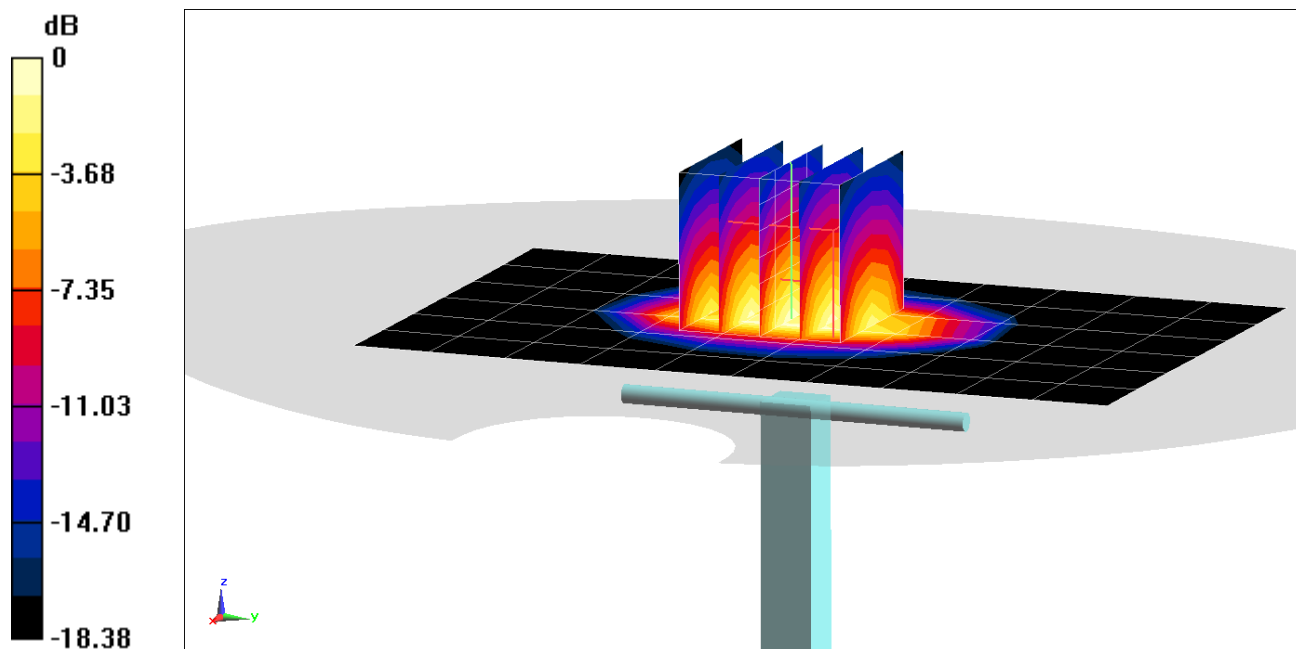
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.68 W/kg

SAR(10 g) = 2.17 W/kg

Deviation(10 g) = 4.83%



0 dB = 6.53 W/kg = 8.15 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 981

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.018 \text{ S/m}$; $\epsilon_r = 52.13$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/13/2020; Ambient Temp: 22.2°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7409; ConvF(7.24, 7.24, 7.24) @ 2450 MHz; Calibrated: 6/23/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/18/2020

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

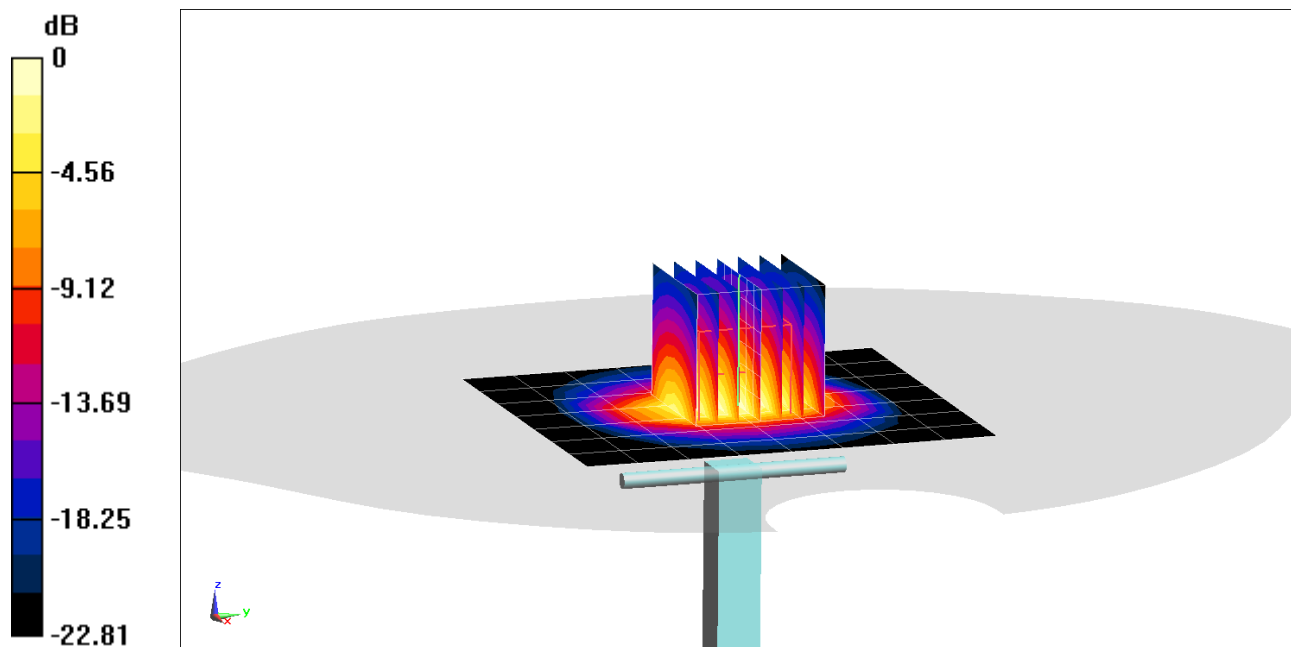
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 5.04 W/kg

Deviation(1 g) = -0.98%



0 dB = 8.51 W/kg = 9.30 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1237

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5250$ MHz; $\sigma = 5.413$ S/m; $\epsilon_r = 47.949$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/10/2020; Ambient Temp: 23.1°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7538; ConvF(4.6, 4.6, 4.6) @ 5250 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn728; Calibrated: 5/20/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

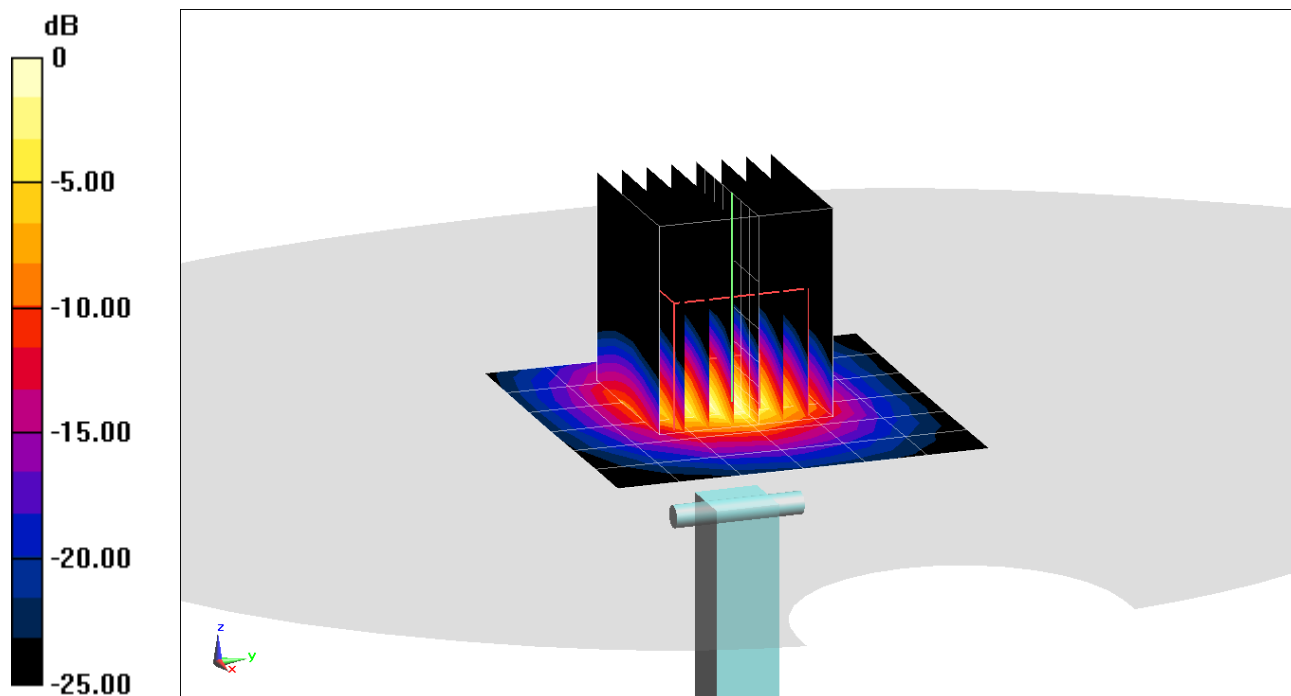
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.0 W/kg

SAR(1 g) = 3.6 W/kg

Deviation(1 g) = -4.76%



0 dB = 8.71 W/kg = 9.40 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1237

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5600$ MHz; $\sigma = 5.879$ S/m; $\epsilon_r = 47.363$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/10/2020; Ambient Temp: 23.1°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7538; ConvF(4.09, 4.09, 4.09) @ 5600 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn728; Calibrated: 5/20/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

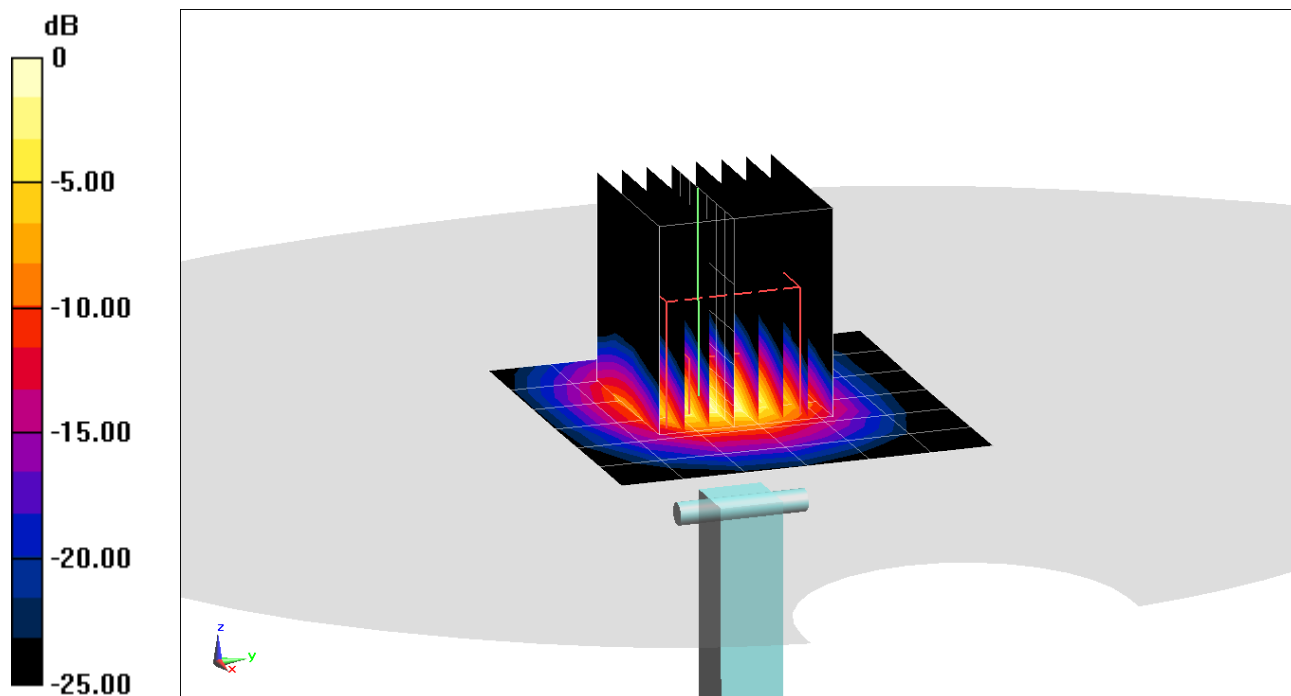
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 3.92 W/kg

Deviation(1 g) = -0.13%



0 dB = 9.70 W/kg = 9.87 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1237

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5750 \text{ MHz}$; $\sigma = 6.08 \text{ S/m}$; $\epsilon_r = 47.158$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/10/2020; Ambient Temp: 23.1°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7538; ConvF(4.17, 4.17, 4.17) @ 5750 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn728; Calibrated: 5/20/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

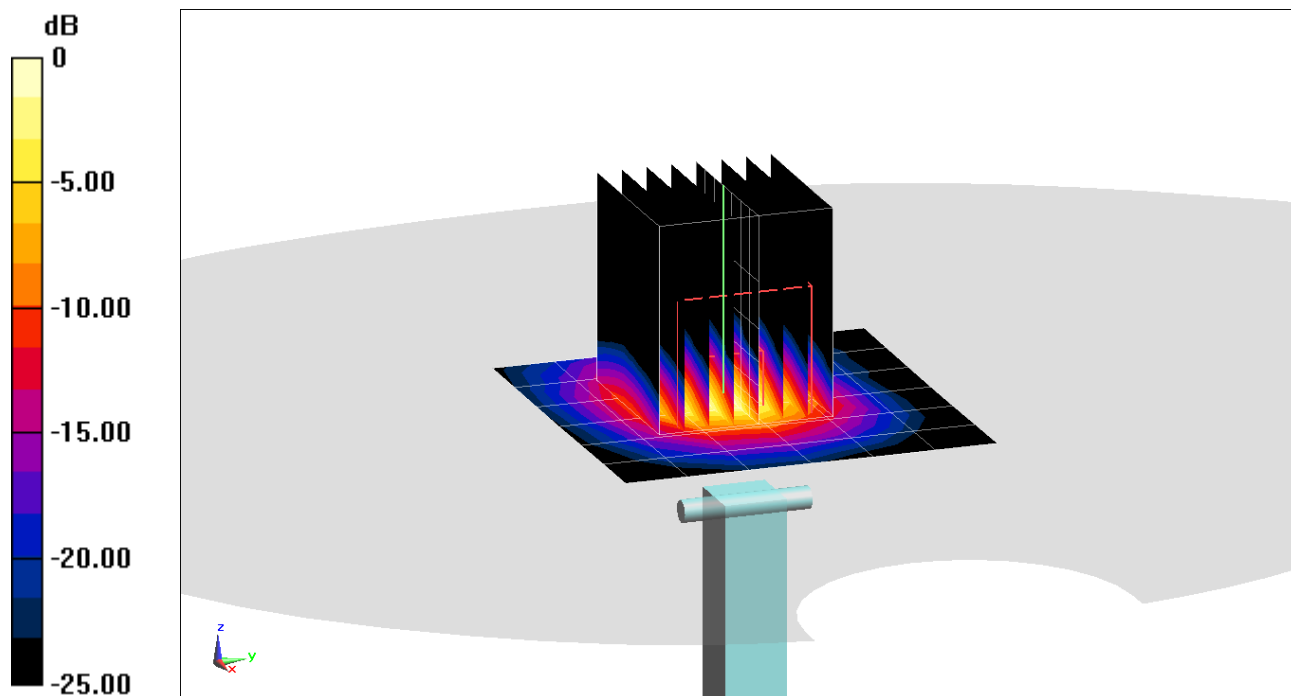
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 3.73 W/kg

Deviation(1 g) = -1.71%



0 dB = 9.34 W/kg = 9.70 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1237

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5250$ MHz; $\sigma = 5.476$ S/m; $\epsilon_r = 47.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/16/2020; Ambient Temp: 22.1°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7538; ConvF(4.6, 4.6, 4.6) @ 5250 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

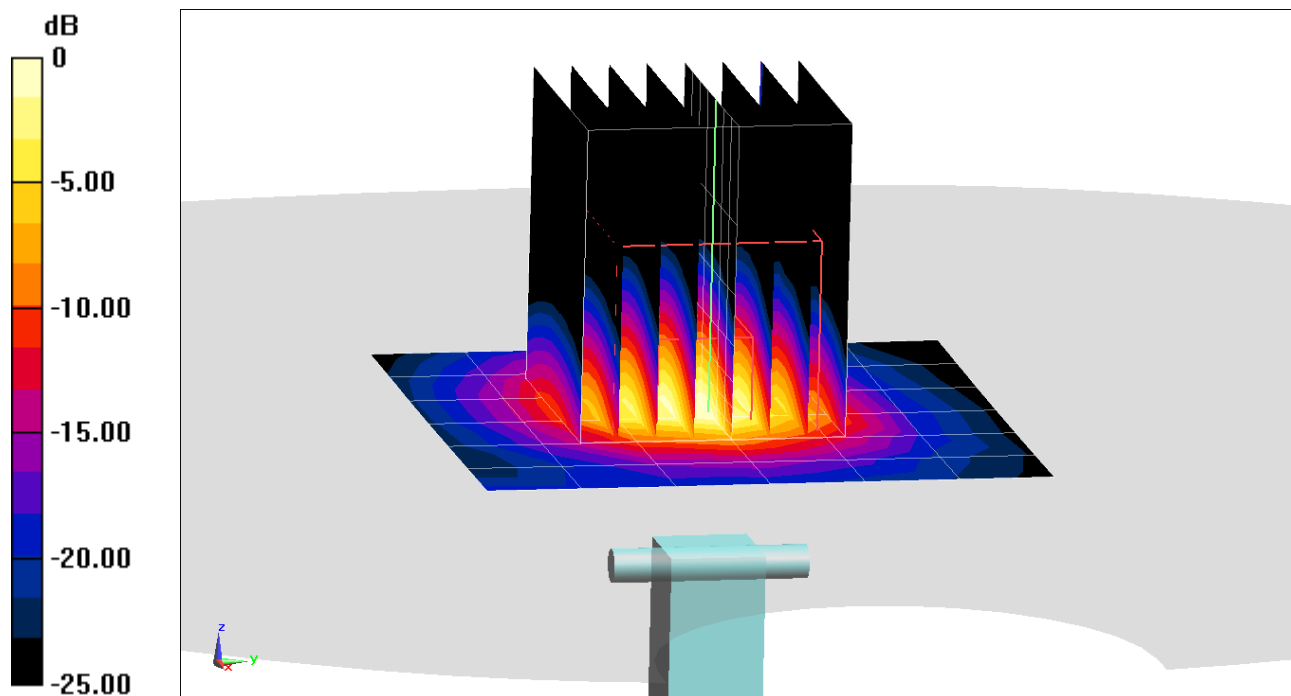
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 14.1 W/kg

SAR(10 g) = 1 W/kg

Deviation(10 g) = -5.66%



0 dB = 8.42 W/kg = 9.25 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1237

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5600$ MHz; $\sigma = 5.937$ S/m; $\epsilon_r = 46.607$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/16/2020; Ambient Temp: 22.1°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7538; ConvF(4.09, 4.09, 4.09) @ 5600 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

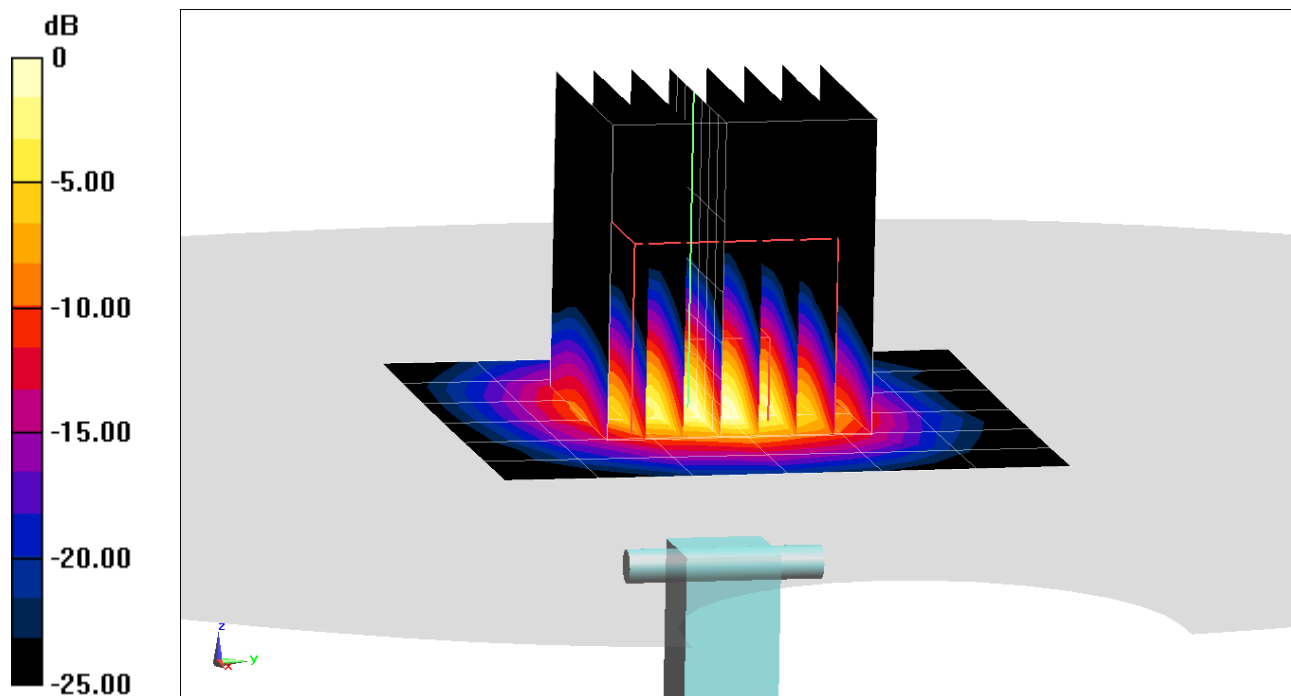
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.2 W/kg

SAR(10 g) = 1.04 W/kg

Deviation(10 g) = -5.45%



0 dB = 8.84 W/kg = 9.46 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1237

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5750 \text{ MHz}$; $\sigma = 6.14 \text{ S/m}$; $\epsilon_r = 46.354$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/16/2020; Ambient Temp: 22.1°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7538; ConvF(4.17, 4.17, 4.17) @ 5750 MHz; Calibrated: 5/18/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/15/2020

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

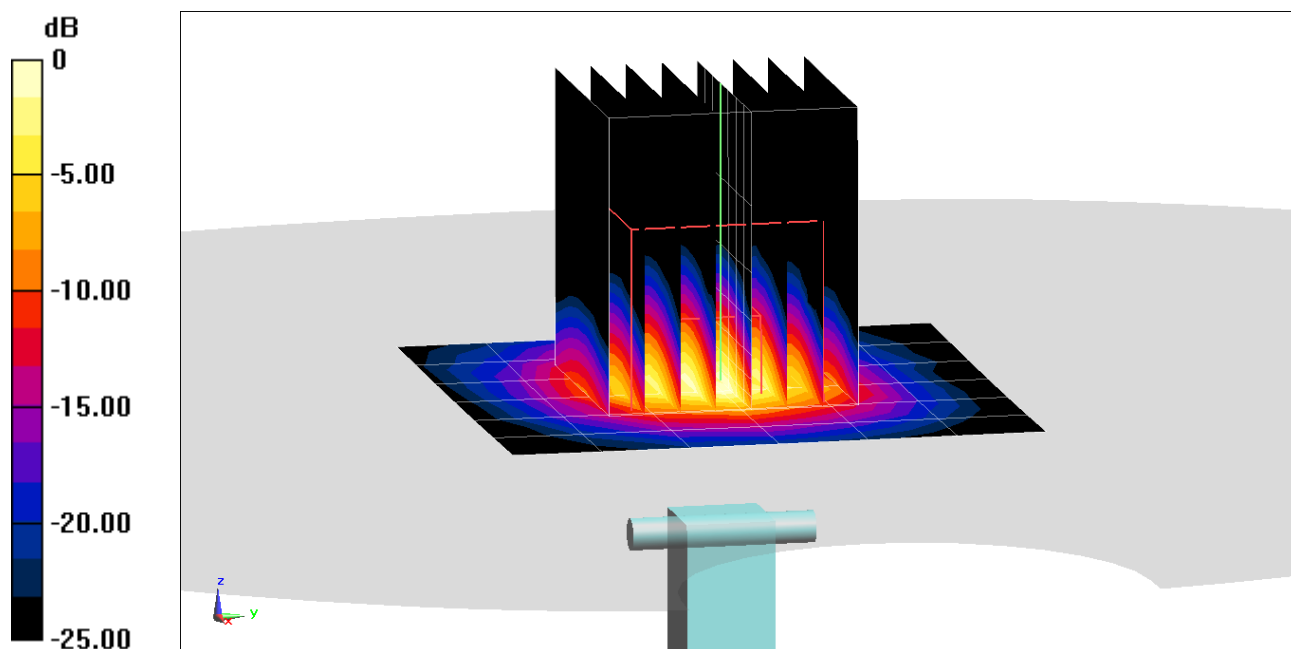
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.1 W/kg

SAR(10 g) = 0.991 W/kg

Deviation(10 g) = -6.51%



0 dB = 8.79 W/kg = 9.44 dBW/kg

J.3 Tissue Verification

Table J-3
Measured Tissue Properties – Body

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
08/17/2020	750 Body	22.3	680	0.942	53.666	0.958	55.804	-1.67%	-3.47%
			695	0.947	53.636	0.959	55.745	-1.25%	-3.42%
			700	0.949	53.624	0.959	55.726	-1.04%	-3.41%
			710	0.952	53.601	0.960	55.687	-0.83%	-3.39%
			725	0.958	53.566	0.961	55.629	-0.31%	-3.35%
			750	0.968	53.502	0.964	55.531	0.41%	-3.29%
			770	0.975	53.645	0.965	55.453	1.04%	-3.26%
			785	0.982	53.606	0.966	55.395	1.66%	-3.23%
			800	0.988	53.572	0.967	55.336	2.17%	-3.19%
			1710	1.491	51.975	1.463	53.537	1.91%	-2.92%
08/17/2020	1750 Body	21.9	1720	1.502	51.840	1.469	53.511	2.25%	-2.94%
			1745	1.530	51.849	1.485	53.445	3.03%	-2.99%
			1750	1.536	51.830	1.488	53.432	3.23%	-3.00%
			1770	1.560	51.757	1.501	53.379	3.93%	-3.04%
			1790	1.583	51.682	1.514	53.326	4.56%	-3.08%
			1850	1.490	53.076	1.520	53.300	-1.97%	-0.42%
			1860	1.501	53.049	1.520	53.300	-1.25%	-0.47%
08/17/2020	1900 Body	24.7	1880	1.522	52.999	1.520	53.300	0.13%	-0.56%
			1900	1.544	52.943	1.520	53.300	1.58%	-0.67%
			1905	1.549	52.920	1.520	53.300	1.91%	-0.70%
			1910	1.555	52.916	1.520	53.300	2.30%	-0.72%
			1850	1.509	51.682	1.520	53.300	-0.72%	-3.04%
			1860	1.520	51.649	1.520	53.300	0.00%	-3.10%
			1880	1.542	51.596	1.520	53.300	1.45%	-3.20%
08/20/2020	1900 Body	24.8	1900	1.564	51.550	1.520	53.300	2.89%	-3.28%
			1905	1.570	51.539	1.520	53.300	3.29%	-3.30%
			1910	1.575	51.529	1.520	53.300	3.62%	-3.32%
			1850	1.513	51.532	1.520	53.300	-0.46%	-3.32%
			1860	1.524	51.509	1.520	53.300	0.26%	-3.38%
			1880	1.547	51.444	1.520	53.300	1.78%	-3.48%
			1900	1.568	51.377	1.520	53.300	3.16%	-3.61%
08/17/2020	1900 Body	23.1	1905	1.574	51.362	1.520	53.300	3.55%	-3.64%
			1910	1.579	51.346	1.520	53.300	3.88%	-3.67%
			2480	1.969	52.265	1.902	52.767	3.05%	-0.91%
			2450	2.015	52.130	1.950	52.700	3.49%	-1.08%
			2480	2.052	52.054	1.993	52.662	2.96%	-1.15%
			2500	2.076	51.996	2.021	52.636	2.72%	-1.22%
			5180	5.321	48.064	5.276	49.041	0.85%	-1.99%
08/13/2020	2450 Body	23.2	5190	5.332	48.051	5.288	49.028	0.83%	-1.99%
			5200	5.341	48.028	5.299	49.014	0.79%	-2.01%
			5210	5.351	48.013	5.311	49.001	0.75%	-2.02%
			5220	5.366	48.002	5.323	48.987	0.81%	-2.01%
			5240	5.401	47.974	5.346	48.960	1.03%	-2.01%
			5250	5.413	47.949	5.358	48.947	1.03%	-2.04%
			5260	5.422	47.940	5.369	48.933	0.99%	-2.03%
			5270	5.437	47.929	5.381	48.919	1.04%	-2.02%
			5280	5.455	47.903	5.393	48.906	1.15%	-2.05%
			5290	5.468	47.879	5.404	48.892	1.18%	-2.07%
			5300	5.476	47.860	5.416	48.879	1.17%	-2.08%
			5310	5.485	47.853	5.428	48.865	1.05%	-2.07%
			5320	5.499	47.838	5.439	48.851	1.10%	-2.07%
			5500	5.743	47.534	5.650	48.607	1.65%	-2.21%
			5510	5.756	47.533	5.661	48.594	1.68%	-2.18%
			5520	5.770	47.533	5.673	48.580	1.71%	-2.16%
			5530	5.782	47.519	5.685	48.566	1.71%	-2.16%
			5540	5.789	47.501	5.696	48.553	1.63%	-2.17%
			5550	5.796	47.478	5.708	48.539	1.54%	-2.19%
			5560	5.810	47.465	5.720	48.526	1.57%	-2.19%
			5580	5.851	47.411	5.743	48.499	1.88%	-2.24%
			5600	5.879	47.353	5.765	48.471	1.96%	-2.29%
			5610	5.892	47.335	5.778	48.458	1.97%	-2.28%
			5620	5.909	47.348	5.790	48.444	2.06%	-2.26%
			5640	5.938	47.337	5.813	48.417	2.15%	-2.23%
			5660	5.955	47.312	5.837	48.390	2.02%	-2.23%
			5670	5.971	47.293	5.848	48.376	2.10%	-2.24%
			5680	5.985	47.285	5.860	48.363	2.13%	-2.27%
			5690	5.998	47.234	5.872	48.349	2.15%	-2.31%
			5700	6.015	47.215	5.883	48.336	2.24%	-2.32%
			5710	6.035	47.201	5.895	48.322	2.37%	-2.32%
			5720	6.059	47.185	5.907	48.309	2.42%	-2.33%
			5745	6.074	47.156	5.936	48.275	2.32%	-2.32%
			5750	6.080	47.158	5.942	48.268	2.32%	-2.30%
			5755	6.088	47.150	5.947	48.261	2.37%	-2.28%
			5765	6.103	47.156	5.959	48.248	2.42%	-2.26%
			5775	6.120	47.134	5.971	48.234	2.50%	-2.28%
			5785	6.136	47.101	5.982	48.220	2.57%	-2.32%
			5795	6.149	47.086	5.994	48.207	2.59%	-2.33%
			5800	6.159	47.080	6.000	48.200	2.65%	-2.32%
			5805	6.166	47.072	6.006	48.193	2.66%	-2.33%
			5825	6.196	47.018	6.029	48.166	2.77%	-2.38%
			5180	5.380	47.316	5.276	49.041	1.97%	-3.52%
			5190	5.390	47.298	5.288	49.028	1.93%	-3.53%
			5200	5.400	47.282	5.299	49.014	1.91%	-3.53%
			5210	5.414	47.264	5.311	49.001	1.94%	-3.54%
			5220	5.428	47.236	5.323	48.987	1.97%	-3.57%
			5240	5.463	47.200	5.346	48.960	2.19%	-3.59%
			5250	5.476	47.185	5.358	48.947	2.20%	-3.60%
			5260	5.486	47.171	5.369	48.933	2.18%	-3.60%
			5270	5.497	47.165	5.381	48.919	2.16%	-3.59%
			5280	5.511	47.154	5.393	48.906	2.19%	-3.58%
			5290	5.526	47.133	5.404	48.892	2.26%	-3.60%
			5300	5.538	47.109	5.416	48.879	2.25%	-3.62%
			5310	5.545	47.096	5.428	48.865	2.16%	-3.62%
			5320	5.554	47.074	5.439	48.851	2.11%	-3.64%
			5500	5.801	46.759	5.650	48.607	2.67%	-3.80%
			5510	5.814	46.740	5.661	48.594	2.70%	-3.82%
			5520	5.827	46.729	5.673	48.580	2.71%	-3.81%
			5530	5.838	46.725	5.685	48.566	2.69%	-3.79%
			5540	5.849	46.714	5.696	48.553	2.67%	-3.79%
			5550	5.860	46.690	5.708	48.539	2.66%	-3.81%
			5560	5.871	46.659	5.720	48.526	2.64%	-3.85%
			5580	5.906	46.535	5.743	48.499	2.84%	-3.84%
			5600	5.937	46.507	5.766	48.471	2.97%	-3.85%
			5610	5.950	46.587	5.778	48.458	2.98%	-3.86%
			5620	5.962	46.582	5.790	48.444	2.97%	-3.84%
			5640	5.990	46.558	5.813	48.417	3.04%	-3.84%
			5660	6.018	46.512	5.837	48.390	3.10%	-3.88%
			5670	6.028	46.486	5.848	48.376	3.08%	-3.89%
			5680	6.037	46.481	5.860	48.363	3.02%	-3.89%
			5690	6.053	46.457	5.872	48.349	3.08%	-3.91%
			5700	6.068	46.438	5.883	48.336	3.14%	-3.93%
			5710	6.083	46.420	5.895	48.322	3.19%	-3.94%
			5720	6.098	46.407	5.907	48.309	3.23%	-3.94%
			5745	6.135	46.360	5.936	48.275	3.35%	-3.97%
			5750	6.140	46.354	5.942	48.268	3.33%	-3.97%
			5755	6.145	46.352	5.947	48.261	3.33%	-3.96%
			5765	6.156	46.345	5.959	48.248	3.31%	-3.94%
			5775	6.169	46.337	5.971	48.234	3.32%	-3.93%
			5785	6.184	46.317	5.982	48.220	3.38%	-3.95%
			5795	6.199	46.299	5.994	48.207	3.42%	-3.96%
			5800	6.206	46.284	6.000			

APPENDIX K: DOWNLINK LTE CA RF CONDUCTED POWERS

1.1 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the maximum average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.

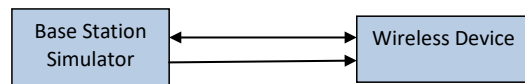


Figure 1
DL CA Power Measurement Setup

FCC ID: ZNFG900TM	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	 LG	Reviewed by: Quality Manager
Test Dates: 07/01/20 - 08/17/20	DUT Type: Portable Handset			APPENDIX K Page 1 of 3

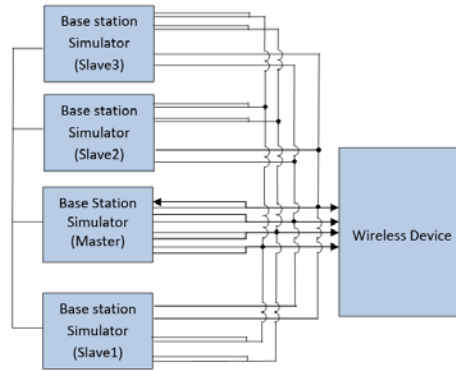


Figure 2
DL CA with DL 4x4 MIMO Power Measurement Setup

FCC ID: ZNFG900TM	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	 LG	Reviewed by: Quality Manager
Test Dates: 07/01/20 - 08/17/20	DUT Type: Portable Handset			APPENDIX K Page 2 of 3

1.2 Downlink Carrier Aggregation with Inter-band Uplink Carrier Aggregation Enabled

This device supports inter-band uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with inter-band ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes.

Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for with only ULCA active.

1.2.1 Additional Downlink Carrier Aggregation with Inter-band Uplink Carrier Aggregation Active RF Conducted Powers

Table 1
Maximum Output Powers – 3CC

		PCC										SCC 1										SCC 2										Power			
Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC UL Ch.	SCC UL Freq. [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	Interband ULCA Tx Power with add'l DL CA active (dBm)												
																							PCC	SCC 1	PCC	SCC 1									
CA 2A-12A-66A	LTE B2	20	18900	1880	QPSK	1	50	900	1960	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B66	20	66786	2145	23.39	17.58	23.46	17.69									
CA 2A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	18900	1880	QPSK	1	50	900	1960	LTE B66	20	66786	2145	23.39	17.58	23.46	17.69									
CA 2A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B66	20	132622	1745	QPSK	1	50	66786	2145	LTE B2	20	900	1960	23.39	17.58	23.46	17.69									
CA 2A-12A-66A	LTE B66	20	132622	1745	QPSK	1	50	66786	2145	LTE B12	10	18900	1880	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	23.38	17.27	23.38	17.70									

1.3 DL Carrier Aggregation with DL 4x4 MIMO RF Conducted Powers

Note: 4x4 DL MIMO is only operating in the downlink. Uplink transmission is limited to a single output stream for each component carrier of ULCA.

1.3.1 Additional Downlink Carrier Aggregation with Inter-band Uplink Carrier Aggregation Active RF Conducted Powers

Table 2
Maximum Output Powers – 2CC

Combination	PCC										SCC										Power			
	PCC Band	PCC Bandwidth [MHz]	PCC [UL] Channel	PCC [UL] Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	SCC [DL] Channel	SCC [DL] Frequency [MHz]	DL Ant. Config.	Interband ULCA Tx Power with add'l DL CA active (dBm)		LTE Interband ULCA Tx Power (dBm)	
																					PCC	SCC	PCC	SCC
CA 12A-12A	LTE B2	20	18900	1880	QPSK	1	50	900	1960	4x4	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	23.39	17.58	23.46	17.69
CA 12A-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B2	20	18900	1880	QPSK	1	50	900	1960	4x4	23.39	17.58	23.46	17.69
CA 12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B66	20	132622	1745	QPSK	1	50	66786	2145	4x4	23.39	17.58	23.46	17.69
CA 12A-66A	LTE B66	10	132622	1745	QPSK	1	50	67086	2175	4x4	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	23.39	17.58	23.46	17.69

Table 3
Maximum Output Powers – 3CC

Combination	PCC										SCC 1										SCC 2										Power			
	PCC Band	PCC Bandwidth [MHz]	PCC [UL] Channel	PCC [UL] Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	SCC [DL] Channel	SCC [DL] Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC [DL] Channel	SCC [DL] Frequency [MHz]	DL Ant. Config.	Interband ULCA Tx Power with add'l DL CA active (dBm)		LTE Interband ULCA Tx Power (dBm)						
																											PCC	SCC 1	PCC	SCC 1				
CA 12A-12A-66A	LTE B2	20	18900	1880	QPSK	1	50	900	1960	4x4	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B66	20	66786	2145	2x2	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 12A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B2	20	18900	1880	QPSK	1	50	900	1960	4x4	LTE B66	20	66786	2145	2x2	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 2A-12A-66A	LTE B2	20	18900	1880	QPSK	1	50	900	1960	2x2	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 2A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B2	20	18900	1880	QPSK	1	50	900	1960	2x2	LTE B66	20	66786	2145	4x4	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 12A-12A-66A	LTE B2	20	18900	1880	QPSK	1	50	900	1960	4x4	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 12A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B2	20	18900	1880	QPSK	1	50	900	1960	4x4	LTE B66	20	66786	2145	4x4	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 12A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B66	20	132622	1745	QPSK	1	50	66786	2145	2x2	LTE B2	20	900	1960	4x4	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 12A-12A-66A	LTE B66	20	132622	1745	QPSK	1	50	66786	2145	4x4	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B2	20	900	1960	2x2	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 2A-12A-66A	LTE B2	20	18900	1880	QPSK	1	50	900	1960	2x2	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 2A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B2	20	18900	1880	QPSK	1	50	900	1960	2x2	LTE B66	20	66786	2145	4x4	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 12A-12A-66A	LTE B2	20	18900	1880	QPSK	1	50	900	1960	4x4	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B66	20	66786	2145	4x4	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 12A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B2	20	18900	1880	QPSK	1	50	900	1960	4x4	LTE B66	20	66786	2145	4x4	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 12A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B66	20	132622	1745	QPSK	1	50	66786	2145	2x2	LTE B2	20	900	1960	4x4	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	
CA 12A-12A-66A	LTE B66	20	132622	1745	QPSK	1	50	66786	2145	4x4	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2	LTE B2	20	900	1960	2x2	23.39	17.49	23.46	17.49	23.39	17.49	23.46	17.49	

FCC ID: ZNFG900TM		SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 07/01/20 - 08/17/20	DUT Type: Portable Handset	APPENDIX K Page 3 of 3		