

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	AAF	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	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAD	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 %

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



Accredited by the Swiss Accreditation Service (SAS)
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 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **EX3-3843_Sep19**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3843**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7**
Calibration procedure for dosimetric E-field probes

Calibration date: **September 26, 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 $(22 \pm 3)^{\circ}\text{C}$ 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	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 Jeton Kastrati	Function Laboratory Technician	Signature
Approved by:	Katja Pokovic	Technical Manager	
			Issued: October 1, 2019
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			



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Accreditation No.: **SCS 0108**

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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 E²-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:3843

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.34	0.35	0.25	± 10.1 %
DCP (mV) ^B	110.9	96.1	101.1	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	134.1	±3.8 %	± 4.7 %
		Y	0.0	0.0	1.0		146.5		
		Z	0.0	0.0	1.0		132.2		

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 Page 5).

^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:3843

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-34.3
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:3843

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	9.37	9.37	9.37	0.50	0.87	± 12.0 %
835	41.5	0.90	9.07	9.07	9.07	0.43	0.80	± 12.0 %
900	41.5	0.97	8.92	8.92	8.92	0.41	0.90	± 12.0 %
1450	40.5	1.20	8.17	8.17	8.17	0.32	0.80	± 12.0 %
1750	40.1	1.37	7.95	7.95	7.95	0.34	0.87	± 12.0 %
1900	40.0	1.40	7.67	7.67	7.67	0.32	0.87	± 12.0 %
2000	40.0	1.40	7.66	7.66	7.66	0.34	0.87	± 12.0 %
2300	39.5	1.67	7.30	7.30	7.30	0.26	0.90	± 12.0 %
2450	39.2	1.80	7.06	7.06	7.06	0.35	0.90	± 12.0 %
2600	39.0	1.96	6.90	6.90	6.90	0.43	0.80	± 12.0 %
5250	35.9	4.71	4.74	4.74	4.74	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.47	4.47	4.47	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.44	4.44	4.44	0.40	1.80	± 14.0 %

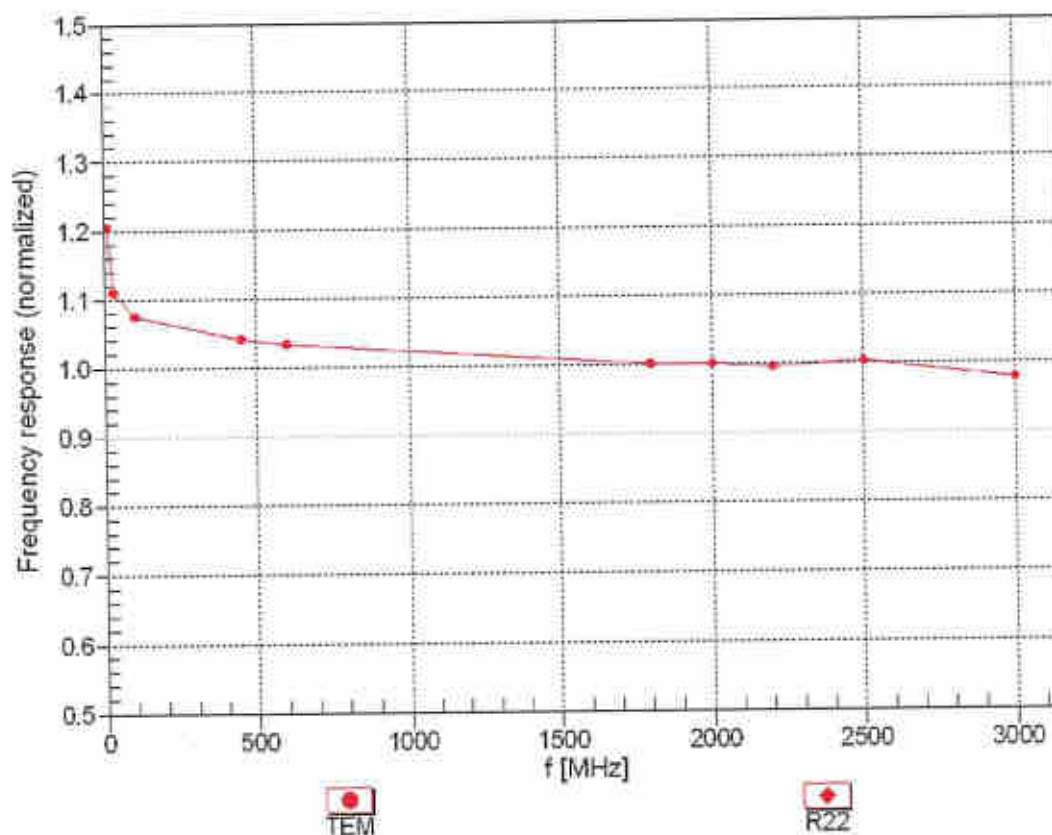
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 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

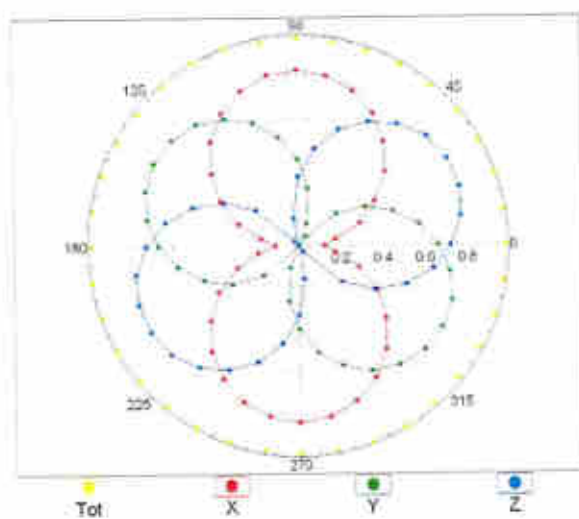
(TEM-Cell: ifi110 EXX, Waveguide: R22)



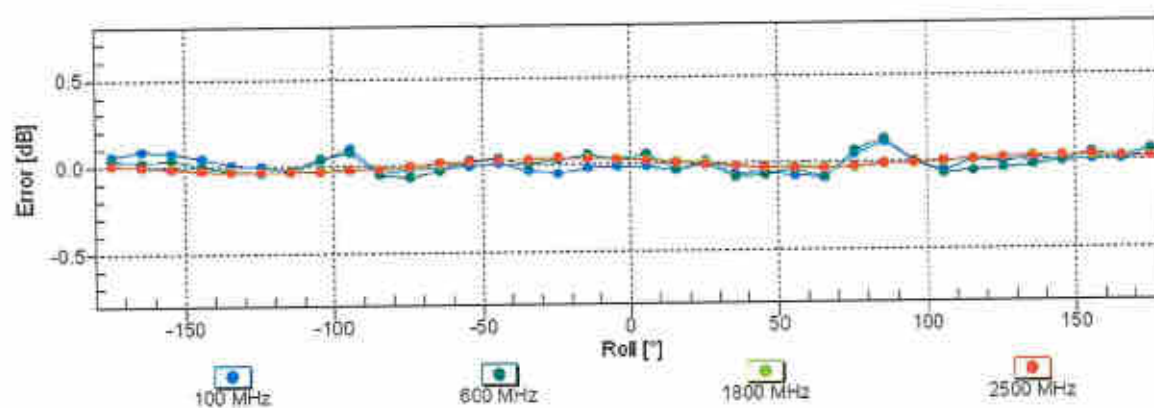
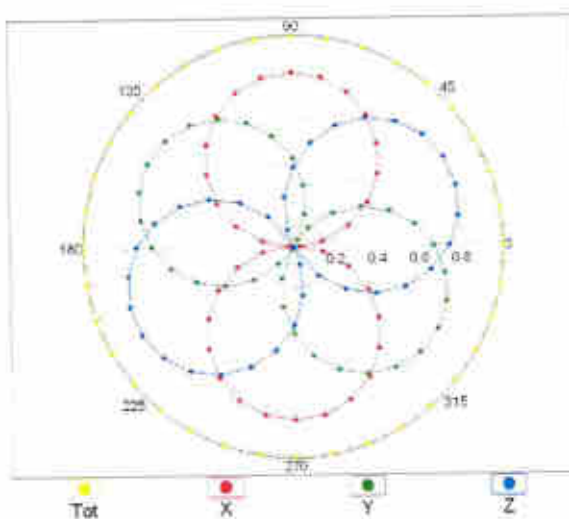
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

f=600 MHz,TEM

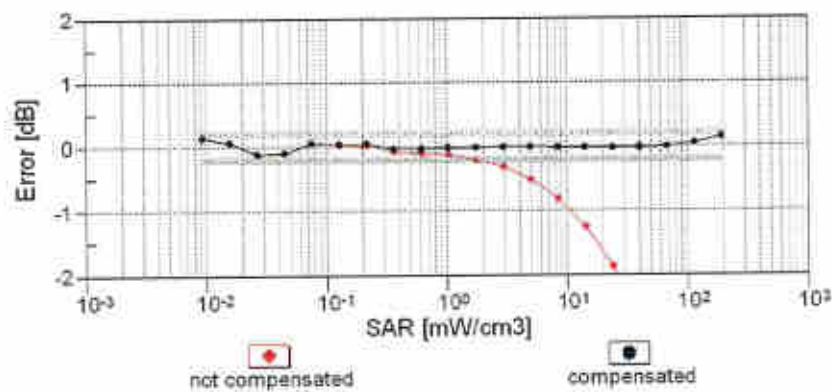
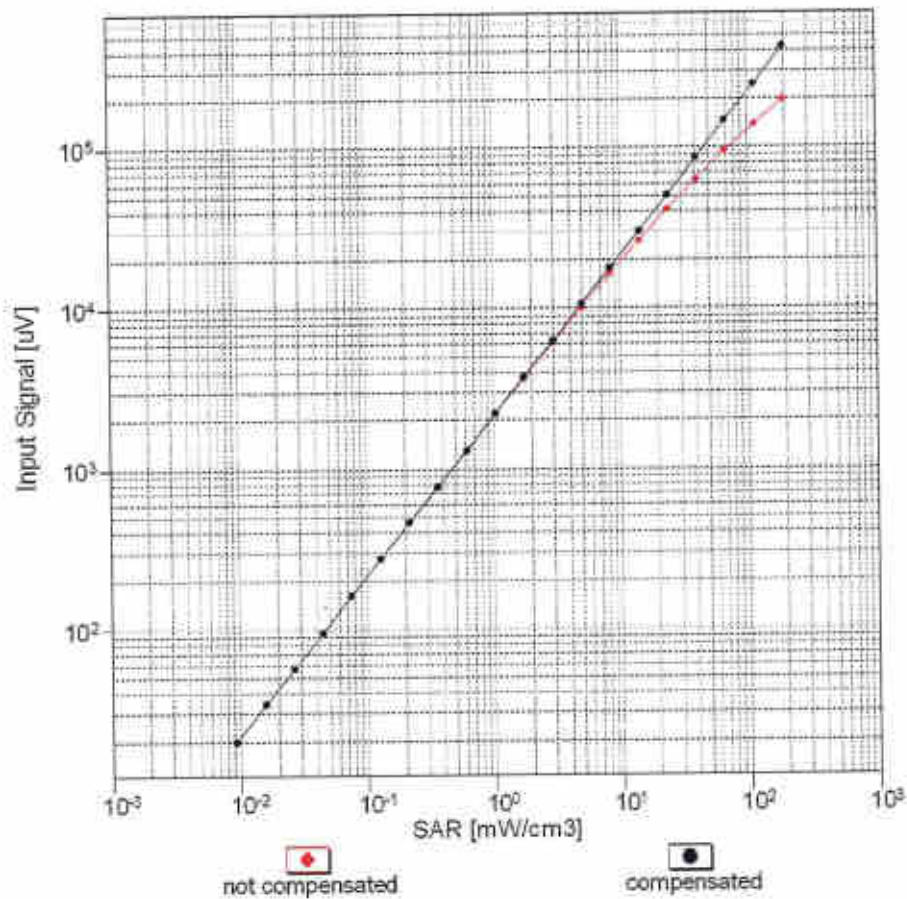


f=1800 MHz,R22



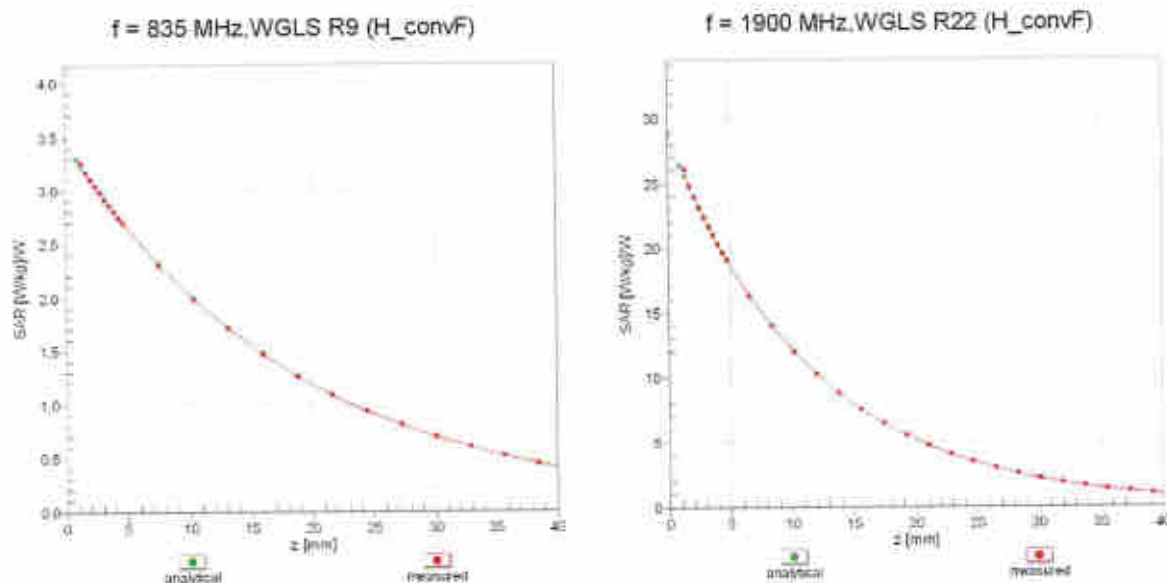
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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



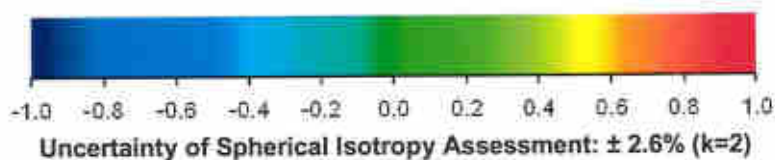
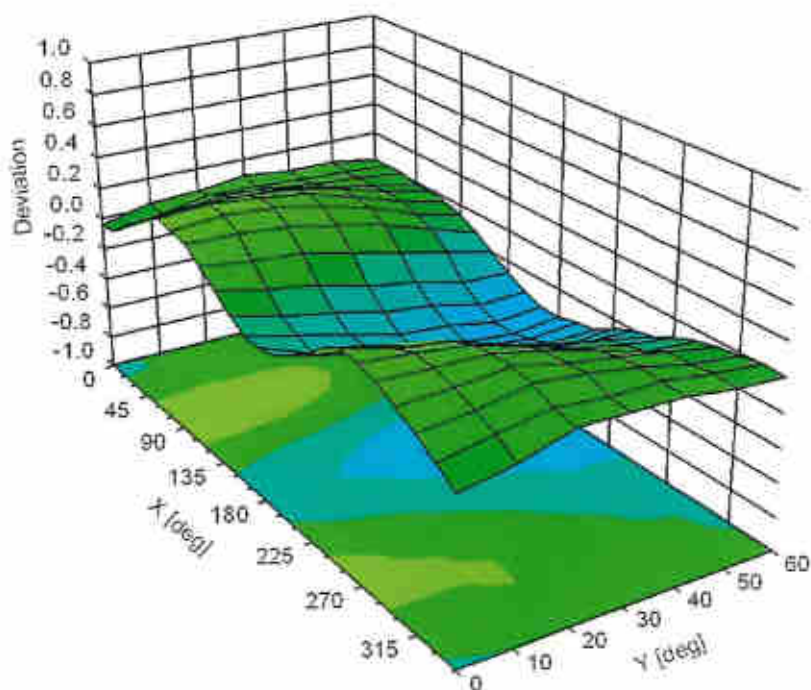
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ , θ), $f = 900 \text{ MHz}$





Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.

Full Power

Band 2 (1900MHz Band) Part 24E										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				18700	18900	19100				
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	23.33	23.45	23.30	24	0		
20	QPSK	1	49	23.71	23.75	23.63				
20	QPSK	1	99	23.30	23.35	23.29				
20	QPSK	50	0	22.63	22.66	22.62				
20	QPSK	50	24	22.56	22.72	22.78	23	1		
20	QPSK	50	50	22.60	22.66	22.64				
20	QPSK	100	0	22.64	22.64	22.73				
20	16QAM	1	0	22.85	22.87	22.79				
20	16QAM	1	49	22.89	22.81	22.81	23	1		
20	16QAM	1	99	22.48	22.40	22.45				
20	16QAM	50	0	21.55	21.67	21.64				
20	16QAM	50	24	21.60	21.68	21.65				
20	16QAM	50	50	21.55	21.58	21.60	22	2		
20	16QAM	100	0	21.62	21.64	21.62				
Channel				1867.5	18900	1912.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	0	23.47	23.47	23.38	24	0		
15	QPSK	1	37	23.41	23.49	23.50				
15	QPSK	1	74	23.52	23.40	23.50				
15	QPSK	36	0	22.62	22.65	22.60				
15	QPSK	36	20	22.72	22.67	22.62	23	1		
15	QPSK	36	39	22.54	22.69	22.49				
15	QPSK	75	0	22.54	22.58	22.57				
15	16QAM	1	0	22.72	22.65	22.40				
15	16QAM	1	37	22.74	22.68	22.78	23	1		
15	16QAM	1	74	22.62	22.85	22.86				
15	16QAM	36	0	21.55	21.62	21.57				
15	16QAM	36	20	21.58	21.70	21.64				
15	16QAM	36	39	21.52	21.58	21.71	22	2		
15	16QAM	75	0	21.52	21.62	21.52				
Channel				1865.0	18900	1915.0	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	0	23.44	23.41	23.51	24	0		
10	QPSK	1	25	23.63	23.71	23.60				
10	QPSK	1	49	23.36	23.50	23.50				
10	QPSK	25	0	22.58	22.55	22.69				
10	QPSK	25	12	22.56	22.64	22.55	23	1		
10	QPSK	25	25	22.57	22.60	22.59				
10	QPSK	50	0	22.55	22.63	22.75				
10	16QAM	1	0	22.51	22.56	22.69				
10	16QAM	1	25	22.70	22.65	22.60	23	1		
10	16QAM	1	49	22.39	22.61	22.83				
10	16QAM	25	0	21.58	21.70	21.76				
10	16QAM	25	12	21.50	21.60	21.66				
10	16QAM	25	25	21.40	21.59	21.77	22	2		
10	16QAM	50	0	21.66	21.59	21.73				
Channel				1862.5	18900	1917.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	0	23.31	23.38	23.45	24	0		
5	QPSK	1	12	23.71	23.70	23.45				
5	QPSK	1	24	23.34	23.44	23.52				
5	QPSK	12	0	22.58	22.61	22.57				
5	QPSK	12	7	22.58	22.70	22.70	23	1		
5	QPSK	12	13	22.58	22.58	22.69				
5	QPSK	25	0	22.60	22.65	22.59				
5	16QAM	1	0	22.78	22.56	22.85				
5	16QAM	1	12	22.80	22.62	22.38	23	1		
5	16QAM	1	24	22.80	22.45	22.43				
5	16QAM	12	0	21.55	21.60	21.52				
5	16QAM	12	7	21.57	21.62	21.59				
5	16QAM	12	13	21.55	21.64	21.69	22	2		
5	16QAM	25	0	21.58	21.57	21.71				
Channel				1861.5	18900	1918.5	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1851.5	1880	1908.5				
3	QPSK	1	0	23.53	23.64	23.48	24	0		
3	QPSK	1	8	23.43	23.59	23.61				
3	QPSK	1	14	23.47	23.53	23.43				
3	QPSK	8	0	22.61	22.61	22.54				
3	QPSK	8	4	22.60	22.64	22.66	23	1		
3	QPSK	8	7	22.65	22.62	22.58				
3	QPSK	15	0	22.62	22.52	22.56				
3	16QAM	1	0	22.68	22.89	22.97				
3	16QAM	1	8	22.89	22.72	22.93	23	1		
3	16QAM	1	14	22.65	22.74	22.85				
3	16QAM	8	0	21.70	21.69	21.51				
3	16QAM	8	4	21.74	21.75	21.69				
3	16QAM	8	7	21.66	21.64	21.68	22	2		
3	16QAM	15	0	21.61	21.60	21.73				
Channel				1860.7	18900	1919.3	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1850.7	1880	1909.3				
1.4	QPSK	1	0	23.49	23.39	23.45	24	0		
1.4	QPSK	1	3	23.57	23.60	23.59				
1.4	QPSK	1	5	23.42	23.47	23.51				
1.4	QPSK	3	0	23.47	23.55	23.54				
1.4	QPSK	3	1	23.48	23.60	23.69	23	1		
1.4	QPSK	3	3	23.52	23.57	23.67				
1.4	QPSK	6	0	22.56	22.56	22.56				
1.4	16QAM	1	0	22.70	22.89	22.65				
1.4	16QAM	1	3	22.72	22.80	22.40	23	1		
1.4	16QAM	1	5	22.61	22.43	22.51				
1.4	16QAM	3	0	22.59	22.50	22.58				
1.4	16QAM	3	1	22.53	22.57	22.61				
1.4	16QAM	3	3	22.57	22.59	22.50	22	2		
1.4	16QAM	6	0	21.67	21.70	21.56				

Band 4 (AWS Band) Part 27L (only on channel required)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20090	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	23.46	23.44	23.40	24	0	
20	QPSK	1	49	23.80	23.66	23.75			
20	QPSK	1	99	23.33	23.30	23.47			
20	QPSK	50	0	22.88	22.77	22.87	23	1	
20	QPSK	50	24	22.66	22.72	22.75			
20	QPSK	50	50	22.75	22.70	22.65			
20	QPSK	100	0	22.73	22.70	22.67	23	1	
20	16QAM	1	0	22.93	22.95	22.66			
20	16QAM	1	49	22.86	22.84	22.86			
20	16QAM	1	99	22.87	22.53	22.48	22	2	
20	16QAM	50	0	21.67	21.72	21.76			
20	16QAM	50	24	21.70	21.75	21.60			
20	16QAM	100	0	21.79	21.75	21.78			
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	23.60	23.58	23.59	24	0	
15	QPSK	1	37	23.78	23.71	23.66			
15	QPSK	1	74	23.47	23.63	23.62			
15	QPSK	36	0	22.80	22.70	22.77	23	1	
15	QPSK	36	20	22.65	22.83	22.76			
15	QPSK	36	39	22.73	22.77	22.73			
15	QPSK	75	0	22.68	22.81	22.70	23	1	
15	16QAM	1	0	22.88	22.99	22.74			
15	16QAM	1	37	22.84	22.99	22.89			
15	16QAM	1	74	22.98	22.85	22.69	22	2	
15	16QAM	36	0	21.72	21.73	21.77			
15	16QAM	36	20	21.78	21.68	21.66			
15	16QAM	36	39	21.67	21.71	21.64			
15	16QAM	75	0	21.71	21.71	21.69			
Channel				20000	200175	20350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	23.69	23.59	23.69	24	0	
10	QPSK	1	25	23.79	23.79	23.65			
10	QPSK	1	49	23.60	23.76	23.78			
10	QPSK	25	0	22.74	22.78	22.88	23	1	
10	QPSK	25	12	22.65	22.80	22.79			
10	QPSK	25	25	22.84	22.74	22.72			
10	QPSK	50	0	22.74	22.76	22.71	23	1	
10	16QAM	1	0	22.80	22.92	22.72			
10	16QAM	1	25	22.89	22.45	22.66			
10	16QAM	1	49	22.59	22.73	22.87	22	2	
10	16QAM	25	0	21.74	21.63	21.70			
10	16QAM	25	12	21.70	21.71	21.81			
10	16QAM	25	25	21.71	21.70	21.76			
10	16QAM	50	0	21.78	21.76	21.71			
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	23.61	23.67	23.63	24	0	
5	QPSK	1	12	23.68	23.74	23.70			
5	QPSK	1	24	23.49	23.58	23.56			
5	QPSK	12	0	22.68	22.79	22.76	23	1	
5	QPSK	12	7	22.73	22.79	22.83			
5	QPSK	12	13	22.66	22.73	22.90			
5	QPSK	25	0	22.63	22.67	22.74	23	1	
5	16QAM	1	0	22.98	22.87	22.99			
5	16QAM	1	12	22.87	22.89	22.87			
5	16QAM	1	24	22.89	22.74	22.82	22	2	
5	16QAM	12	0	21.63	21.66	21.71			
5	16QAM	12	7	21.76	21.61	21.85			
5	16QAM	12	13	21.70	21.75	21.78			
5	16QAM	25	0	21.62	21.67	21.71			
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	23.54	23.79	23.59	24	0	
3	QPSK	1	8	23.68	23.62	23.77			
3	QPSK	1	14	23.54	23.63	23.64			
3	QPSK	8	0	22.59	22.76	22.78	23	1	
3	QPSK	8	4	22.66	22.72	22.72			
3	QPSK	8	7	22.62	22.73	22.73			
3	QPSK	15	0	22.67	22.76	22.74	23	1	
3	16QAM	1	0	22.57	22.87	22.87			
3	16QAM	1	8	22.80	22.54	22.89			
3	16QAM	1	14	22.86	22.87	22.87	22	2	
3	16QAM	8	0	21.71	21.73	21.79			
3	16QAM	8	4	21.73	21.62	21.92			
3	16QAM	8	7	21.62	21.79	21.95			
3	16QAM	15	0	21.68	21.82	21.82			
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	23.56	23.53	23.67	24	0	
1.4	QPSK	1	3	23.73	23.69	23.74			
1.4	QPSK	5	0	23.51	23.62	23.66			
1.4	QPSK	3	0	23.56	23.72	23.70	23	1	
1.4	QPSK	3	1	23.70	23.74	23.68			
1.4	QPSK	3	3	23.70	23.59	23.73			
1.4	QPSK	6	0	22.85	22.64	22.82	23	1	
1.4	16QAM	1	0	22.84	22.78	22.87			
1.4	16QAM	1	3	22.87	22.89	22.83			
1.4	16QAM	1	5	22.78	22.88	22.76	22	2	
1.4	16QAM	3	0	22.71	22.77	22.76			
1.4	16QAM	3	1	22.56	22.75	22.89			
1.4	16QAM	3	3	22.71	22.77	22.85			
1.4	16QAM	6	0	21.76	21.87	21.75	22	2	

Band 5 (Celluar Band) Part 22H(only on channel required)									
BW [MHz]	Modulatio n	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				20450 829	20525 836.5	20600 844	24.5	0	
10	QPSK	1	0	24.19	24.07	24.15			
10	QPSK	1	25	24.04	24.34	24.10			
10	QPSK	1	49	24.01	24.07	24.01			
10	QPSK	25	0	23.14	23.24	23.24	23.5	1	
10	QPSK	25	12	23.13	23.32	23.13			
10	QPSK	25	25	23.18	23.19	23.14			
10	QPSK	50	0	23.20	23.22	23.13			
10	16QAM	1	0	23.23	23.48	23.49	23.5	1	
10	16QAM	1	25	23.48	23.17	23.50			
10	16QAM	1	49	23.27	23.19	23.14			
10	16QAM	25	0	22.11	22.24	22.15			
10	16QAM	25	12	22.23	22.19	22.11	22.5	2	
10	16QAM	25	25	22.31	22.21	22.22			
10	16QAM	50	0	22.15	22.09	22.15			
Channel Frequency (MHz)				20425 826.5	20525 836.5	20625 846.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.86	24.16	23.91	24.5	0	
5	QPSK	1	12	24.04	24.33	24.01			
5	QPSK	1	24	23.99	23.95	24.03			
5	QPSK	12	0	23.04	23.25	23.08			
5	QPSK	12	7	23.10	23.22	23.13	23.5	1	
5	QPSK	12	13	23.12	23.15	23.13			
5	QPSK	25	0	23.06	23.27	23.09			
5	16QAM	1	0	23.27	23.39	23.16			
5	16QAM	1	12	23.45	23.21	23.29	23.5	1	
5	16QAM	1	24	23.40	23.14	23.31			
5	16QAM	12	0	22.14	22.11	22.16			
5	16QAM	12	7	22.18	22.22	22.10			
5	16QAM	12	13	22.06	22.17	22.09	22.5	2	
5	16QAM	25	0	22.08	22.19	22.16			
Channel Frequency (MHz)				20415 825.5	20525 836.5	20635 847.5	Tune-up limit (dBm)	MPR (dB)	
3	QPSK	1	0	23.96	24.09	24.06	24.5	0	
3	QPSK	1	8	24.02	24.11	24.01			
3	QPSK	1	14	24.14	24.09	23.96			
3	QPSK	8	0	23.04	23.10	23.17			
3	QPSK	8	4	23.05	23.16	23.05	23.5	1	
3	QPSK	8	7	23.00	23.10	23.05			
3	QPSK	15	0	23.08	23.23	23.11			
3	16QAM	1	0	23.37	23.45	23.48			
3	16QAM	1	8	23.23	23.20	23.22	23.5	1	
3	16QAM	1	14	23.44	23.33	23.38			
3	16QAM	8	0	22.15	22.10	22.25			
3	16QAM	8	4	22.26	22.29	22.07			
3	16QAM	8	7	22.19	22.22	22.13	22.5	2	
3	16QAM	15	0	22.11	22.18	22.06			
Channel Frequency (MHz)				20407 824.7	20525 836.5	20643 848.3	Tune-up limit (dBm)	MPR (dB)	
1.4	QPSK	1	0	23.93	24.10	23.91	24.5	0	
1.4	QPSK	1	3	24.02	24.08	23.95			
1.4	QPSK	1	5	23.97	24.04	24.02			
1.4	QPSK	3	0	24.09	24.25	24.21			
1.4	QPSK	3	1	24.17	24.12	24.07	23.5	1	
1.4	QPSK	3	3	24.17	24.27	24.19			
1.4	QPSK	6	0	23.45	23.45	23.45			
1.4	16QAM	1	0	23.33	23.46	23.20			
1.4	16QAM	1	3	23.13	23.35	23.37	23.5	1	
1.4	16QAM	1	5	23.42	23.40	23.43			
1.4	16QAM	3	0	23.15	23.03	23.07			
1.4	16QAM	3	1	23.22	23.18	23.08			
1.4	16QAM	3	3	23.09	23.29	23.03	22.5	2	
1.4	16QAM	6	0	22.12	22.15	22.15			

Full Power Band 12 (700MHz Low Band) Part 27F(only on channel required)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				704 23060	707.5 23095	711 23130			
10	QPSK	1	0	24.05	23.99	23.91	24.5		0
10	QPSK	1	25	24.18	24.25	23.99			
10	QPSK	1	49	24.04	24.01	23.96			
10	QPSK	25	0	23.10	23.18	23.17			
10	QPSK	25	12	23.11	23.12	23.04	23.5		1
10	QPSK	25	25	23.16	23.17	22.98			
10	QPSK	50	0	23.09	23.18	23.11			
10	16QAM	1	0	23.11	23.00	23.15			
10	16QAM	1	25	23.27	23.45	23.10	23.5		1
10	16QAM	1	49	23.27	23.38	23.05			
10	16QAM	25	0	22.09	22.08	22.11			
10	16QAM	25	12	22.01	22.26	22.00			
10	16QAM	25	25	22.13	22.23	22.06	22.5		2
10	16QAM	50	0	22.07	22.13	22.05			
Channel Frequency (MHz)				703.5 23035	707.5 23095	713.5 23155	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.96	23.95	23.89	24.5		0
5	QPSK	1	12	24.17	24.12	24.22			
5	QPSK	1	24	23.93	23.98	23.94			
5	QPSK	12	0	23.03	23.15	23.04			
5	QPSK	12	7	23.06	23.23	23.15	23.5		1
5	QPSK	12	13	23.07	23.27	22.98			
5	QPSK	25	0	22.95	23.16	23.08			
5	16QAM	1	0	23.23	23.06	23.00			
5	16QAM	1	12	23.47	23.41	23.18	23.5		1
5	16QAM	1	24	23.34	23.06	23.28			
5	16QAM	12	0	21.87	22.17	22.09			
5	16QAM	12	7	22.05	22.22	22.03			
5	16QAM	12	13	22.03	22.23	22.05	22.5		2
5	16QAM	25	0	21.91	22.09	21.87			
Channel Frequency (MHz)				703.5 23025	707.5 23095	714.5 23165	Tune-up limit (dBm)	MPR (dB)	
3	QPSK	1	0	23.98	24.15	24.07	24.5		0
3	QPSK	1	8	24.03	24.08	23.97			
3	QPSK	1	14	23.91	23.95	23.90			
3	QPSK	8	0	22.95	23.15	23.04			
3	QPSK	8	4	23.10	23.18	23.08	23.5		1
3	QPSK	8	7	23.00	23.16	23.02			
3	QPSK	15	0	23.03	23.20	23.05			
3	16QAM	1	0	23.00	23.49	23.32			
3	16QAM	1	8	23.19	23.19	23.16	23.5		1
3	16QAM	1	14	23.06	23.03	23.09			
3	16QAM	8	0	22.05	22.06	22.16			
3	16QAM	8	4	22.15	22.24	22.18			
3	16QAM	8	7	22.06	22.22	22.05	22.5		2
3	16QAM	15	0	22.01	22.10	21.98			
Channel Frequency (MHz)				703.7 23017	707.5 23095	715.3 23173	Tune-up limit (dBm)	MPR (dB)	
1.4	QPSK	1	0	23.96	24.03	23.94	24.5		0
1.4	QPSK	1	3	24.02	24.12	23.94			
1.4	QPSK	1	5	23.97	24.03	23.89			
1.4	QPSK	3	0	23.88	24.13	24.03			
1.4	QPSK	3	1	24.04	24.12	24.09	23.5		1
1.4	QPSK	3	3	24.16	24.16	23.93			
1.4	QPSK	6	0	23.15	23.11	22.99			
1.4	16QAM	1	0	23.37	23.24	23.02			
1.4	16QAM	1	3	23.09	23.19	23.00	23.5		1
1.4	16QAM	1	5	23.35	23.39	23.41			
1.4	16QAM	3	0	22.85	23.09	22.90			
1.4	16QAM	3	1	22.97	23.13	23.09			
1.4	16QAM	3	3	23.14	22.96	22.88	22.5		2
1.4	16QAM	6	0	22.07	22.07	22.09			

Band 13(700MHz Band) Part 27F									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23230					
Frequency (MHz)				782					
10	QPSK	1	0		24.06		24.5	0	
10	QPSK	1	25		24.24				
10	QPSK	1	49		24.04				
10	QPSK	25	0		23.12		23.5	1	
10	QPSK	25	12		23.08				
10	QPSK	25	25		23.13				
10	QPSK	50	0		23.09		23.5	1	
10	16QAM	1	0		23.25				
10	16QAM	1	25		23.10				
10	16QAM	1	49		23.40		23.5	1	
10	16QAM	25	0		21.97				
10	16QAM	25	12		22.23				
10	16QAM	25	25		22.20		22.5	2	
10	16QAM	50	0		22.16				
Channel				23205	23230	23255			
Frequency (MHz)				779.5	782	784.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.85	23.96	23.97	24.5	0	
5	QPSK	1	12	24.21	24.01	24.22			
5	QPSK	1	24	23.83	23.88	23.89			
5	QPSK	12	0	24.04	24.12	24.04	23.5	1	
5	QPSK	12	7	23.19	23.18	23.08			
5	QPSK	12	13	23.13	23.21	23.02			
5	QPSK	25	0	23.03	23.16	23.10	23.5	1	
5	16QAM	1	0	23.27	23.44	23.00			
5	16QAM	1	12	23.18	23.48	23.42			
5	16QAM	1	24	23.37	23.03	23.34	23.5	1	
5	16QAM	12	0	22.06	22.14	22.05			
5	16QAM	12	7	22.13	22.24	22.07			
5	16QAM	12	13	22.13	22.18	22.13	22.5	2	
5	16QAM	25	0	22.14	22.12	22.09			

Reduced Power Mode for Hotspot On

Band 2 (1900MHz Band)									
Part 24E									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100	23	0	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	22.23	22.30	22.18	23	0	
20	QPSK	1	49	22.41	22.51	22.46			
20	QPSK	1	99	22.05	22.13	22.09			
20	QPSK	50	0	22.13	22.16	22.11	23	0	
20	QPSK	50	24	22.20	22.39	22.20			
20	QPSK	50	50	22.20	22.17	22.06			
20	QPSK	100	0	22.18	22.32	22.29	23	0	
20	16QAM	1	0	22.19	22.09	21.97			
20	16QAM	1	49	22.46	22.35	22.36			
20	16QAM	1	99	22.07	22.25	22.16	22	1	
20	16QAM	50	0	21.62	21.67	21.71			
20	16QAM	50	24	21.69	21.69	21.72			
20	16QAM	50	50	21.70	21.63	21.68	22	1	
20	16QAM	100	0	21.62	21.63	21.71			
Channel				1867.5	18900	19125	23	0	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	22.07	22.06	22.08	23	0	
15	QPSK	1	37	22.31	22.35	22.04			
15	QPSK	1	74	22.05	21.96	22.09			
15	QPSK	36	0	22.21	22.26	22.25	23	0	
15	QPSK	36	20	22.09	22.24	22.28			
15	QPSK	36	39	22.10	22.18	22.25			
15	QPSK	75	0	22.08	22.16	22.19	23	0	
15	16QAM	1	0	22.13	22.00	22.42			
15	16QAM	1	37	22.21	22.17	22.30			
15	16QAM	1	74	22.07	22.15	22.47	22	1	
15	16QAM	36	0	21.65	21.72	21.70			
15	16QAM	36	20	21.54	21.67	21.78			
15	16QAM	36	39	21.58	21.64	21.74	22	1	
15	16QAM	75	0	21.57	21.75	21.63			
Channel				18650	18900	19150	23	0	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	22.10	22.45	22.26	23	0	
10	QPSK	1	25	22.21	22.42	22.42			
10	QPSK	1	49	22.02	22.19	22.44			
10	QPSK	25	0	22.09	21.98	21.87	23	0	
10	QPSK	25	12	22.16	21.98	21.88			
10	QPSK	25	25	22.04	21.96	21.84			
10	QPSK	50	0	22.08	21.78	21.76	23	0	
10	16QAM	1	0	22.15	22.03	22.19			
10	16QAM	1	25	22.45	22.03	22.08			
10	16QAM	1	49	22.30	22.17	21.97	22	1	
10	16QAM	25	0	21.63	21.36	21.25			
10	16QAM	25	12	21.64	21.34	21.39			
10	16QAM	25	25	21.50	21.50	21.35	22	1	
10	16QAM	50	0	21.58	21.42	21.34			
Channel				18625	18900	19175	23	0	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	22.14	22.07	22.06	23	0	
5	QPSK	1	12	22.12	22.37	22.15			
5	QPSK	1	24	21.80	22.04	21.97			
5	QPSK	12	0	22.14	22.17	22.18	23	0	
5	QPSK	12	7	22.20	22.26	22.34			
5	QPSK	12	13	22.14	22.29	22.28			
5	QPSK	25	0	22.15	22.15	22.25	23	0	
5	16QAM	1	0	22.26	22.33	22.29			
5	16QAM	1	12	22.07	22.39	22.47			
5	16QAM	1	24	22.26	22.19	22.25	22	1	
5	16QAM	12	0	21.66	21.75	21.70			
5	16QAM	12	7	21.73	21.80	21.78			
5	16QAM	12	13	21.57	21.77	21.84	22	1	
5	16QAM	25	0	21.58	21.77	21.72			
Channel				18615	18900	19185	23	0	
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	22.13	22.23	22.21	23	0	
3	QPSK	1	8	22.15	22.23	22.27			
3	QPSK	1	14	22.15	22.15	22.22			
3	QPSK	8	0	22.15	22.24	22.22	23	0	
3	QPSK	8	4	22.23	22.19	22.25			
3	QPSK	8	7	22.08	22.31	22.28			
3	QPSK	15	0	22.23	22.14	22.27	23	0	
3	16QAM	1	0	22.30	22.42	22.21			
3	16QAM	1	8	22.32	22.46	22.33			
3	16QAM	1	14	22.41	22.42	22.35	22	1	
3	16QAM	8	0	21.77	21.81	21.81			
3	16QAM	8	4	21.78	21.92	21.89			
3	16QAM	8	7	21.72	21.91	21.89	22	1	
3	16QAM	15	0	21.63	21.77	21.86			
Channel				18607	18900	19193	23	0	
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	22.00	22.18	22.11	23	0	
1.4	QPSK	1	3	22.17	22.34	22.25			
1.4	QPSK	1	5	22.10	22.20	22.16			
1.4	QPSK	3	0	22.13	22.30	22.30	23	0	
1.4	QPSK	3	1	22.15	22.24	22.20			
1.4	QPSK	3	3	22.18	22.22	22.22			
1.4	QPSK	6	0	22.14	22.27	22.18	23	0	
1.4	16QAM	1	0	22.42	22.26	22.30			
1.4	16QAM	1	3	22.38	22.48	22.28			
1.4	16QAM	1	5	22.19	22.35	22.24	23	0	
1.4	16QAM	3	0	22.22	22.28	22.30			
1.4	16QAM	3	1	22.18	22.41	22.34			
1.4	16QAM	3	3	22.17	22.22	22.22	22	1	
1.4	16QAM	6	0	21.67	21.66	21.80			

2.4GHz WLAN		Full power				
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	14.86	15.50	100.00
		6	2437	14.58	15.50	
		11	2462	14.85	15.50	
	802.11g 6Mbps	1	2412	15.00	15.50	96.48
		6	2437	14.91	15.50	
		11	2462	15.21	15.50	
	802.11n-HT20 MCS0	1	2412	14.34	15.50	96.77
		6	2437	14.10	15.50	
		11	2462	14.25	15.50	

5GHz WLAN		Full power				
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	12.24	12.50	96.97
		40	5200	12.22	12.50	
		44	5220	12.28	12.50	
		48	5240	11.94	12.50	
	802.11n-HT20 MCS0	36	5180	11.86	12.50	96.77
		40	5200	11.87	12.50	
		44	5220	11.95	12.50	
		48	5240	11.57	12.50	
	802.11n-HT40 MCS0	38	5190	11.93	12.00	93.31
		46	5230	11.99	12.00	
	802.11ac-VHT20 MCS0	36	5180	11.84	12.50	96.58
		40	5200	11.78	12.50	
		44	5220	11.79	12.50	
		48	5240	11.51	12.50	
	802.11ac-VHT40 MCS0	38	5190	11.98	12.00	93.36
		46	5230	11.94	12.00	
	802.11ac-VHT80 MCS0	42	5210	11.84	12.00	88.19

5GHz WLAN		Full power				
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	11.94	12.50	96.97
		56	5280	11.79	12.50	
		60	5300	11.74	12.50	
		64	5320	11.87	12.50	
	802.11n-HT20 MCS0	52	5260	11.90	12.50	96.77
		56	5280	11.78	12.50	
		60	5300	11.57	12.50	
		64	5320	11.53	12.50	
	802.11n-HT40 MCS0	54	5270	11.79	12.00	93.31
		62	5310	11.91	12.00	
	802.11ac-VHT20 MCS0	52	5260	11.52	12.50	96.58
		56	5280	11.26	12.50	
		60	5300	11.58	12.50	
		64	5320	11.54	12.50	
	802.11ac-VHT40 MCS0	54	5270	11.42	12.00	93.36
		62	5310	11.65	12.00	
	802.11ac-VHT80 MCS0	58	5290	11.31	12.00	88.19

5GHz WLAN		Full power				
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	100	5500	12.46	13.00	96.97
		116	5580	12.49	13.00	
		132	5660	11.85	13.00	
		140	5700	11.89	13.00	
	802.11n-HT20 MCS0	100	5500	12.12	12.50	96.77
		116	5580	12.23	12.50	
		132	5660	11.70	12.50	
		140	5700	11.55	12.50	
	802.11n-HT40 MCS0	102	5510	12.00	12.50	93.31
		110	5550	12.22	12.50	
		134	5670	11.72	12.50	
	802.11ac-VHT20 MCS0	100	5500	12.11	12.50	96.58
		116	5580	12.21	12.50	
		132	5660	11.65	12.50	
		140	5700	11.59	12.50	
	802.11ac-VHT40 MCS0	102	5510	12.02	12.50	93.36
		110	5550	12.10	12.50	
		134	5670	11.61	12.50	
	802.11ac-VHT80 MCS0	106	5630	11.67	12.50	88.19

5GHz WLAN		Full power				
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	12.40	12.50	96.97
		157	5785	12.05	12.50	
		165	5825	12.06	12.50	
	802.11n-HT20 MCS0	149	5745	11.90	12.50	96.77
		157	5785	11.62	12.50	
		165	5825	11.37	12.50	
	802.11n-HT40 MCS0	151	5755	11.73	12.00	93.31
		159	5795	11.66	12.00	
		149	5745	11.60	12.50	96.58
	802.11ac-VHT20 MCS0	157	5785	11.57	12.50	
		165	5825	11.50	12.50	
	802.11ac-VHT40 MCS0	151	5755	11.76	12.00	93.36
		159	5795	11.68	12.00	
	802.11ac-VHT80 MCS0	155	5775	11.98	12.00	88.19

Bluetooth BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	10.74	8.59	8.30
	CH 39	2441	10.44	8.47	8.50
	CH 78	2480	10.78	8.97	8.73
Tune-up Limit			11.00	9.50	9.50

Bluetooth LE

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	-1.82	
	CH 19	2440	-1.81	
	CH 39	2480	-1.88	
Tune-up Limit			0	