

8.2.24 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record												
Ant6 Test Record chain0												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data Standalone												
Left cheek	802.11b	6/2437	98.54%	1.015	0.505	0.228	0.03	13.79	15.50	1.483	0.760	22.2
Left tilted	802.11b	6/2437	98.54%	1.015	0.180	0.082	0.03	13.79	15.50	1.483	0.271	22.2
Right cheek	802.11b	6/2437	98.54%	1.015	0.121	0.065	0.03	13.79	15.50	1.483	0.182	22.2
Right tilted	802.11b	6/2437	98.54%	1.015	0.058	0.031	-0.06	13.79	15.50	1.483	0.087	22.2
Left cheek	802.11b	1/2412	98.39%	1.016	0.549	0.250	0.04	13.74	15.50	1.500	0.837	22.2
Left cheek	802.11b	11/2462	97.08%	1.030	0.533	0.233	0.00	13.09	15.00	1.552	0.852	22.2
Body worn Test data (Separate 15mm)												
Front side	802.11b	6/2437	98.54%	1.015	0.092	0.048	-0.05	17.41	19.00	1.442	0.135	22.2
Back side	802.11b	6/2437	98.54%	1.015	0.112	0.058	-0.19	17.41	19.00	1.442	0.164	22.2
Hotspot Test data (Separate 10mm)												
Front side	802.11b	6/2437	98.54%	1.015	0.190	0.093	0.19	17.41	19.00	1.442	0.278	22.2
Back side	802.11b	6/2437	98.54%	1.015	0.221	0.112	0.19	17.41	19.00	1.442	0.323	22.2
Left side	802.11b	6/2437	98.54%	1.015	0.012	0.006	0.05	17.41	19.00	1.442	0.018	22.2
Right side	802.11b	6/2437	98.54%	1.015	0.377	0.177	-0.12	17.41	19.00	1.442	0.552	22.2
Top side	802.11b	6/2437	98.54%	1.015	0.053	0.017	-0.16	17.41	19.00	1.442	0.078	22.2
Ant7 Test Record chain1												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data Standalone												
Left cheek	802.11b	6/2437	98.54%	1.015	0.524	0.254	-0.07	14.70	16.50	1.514	0.805	22.2
Left tilted	802.11b	6/2437	98.54%	1.015	0.596	0.273	0.16	14.70	16.50	1.514	0.915	22.2
Right cheek	802.11b	6/2437	98.54%	1.015	0.375	0.182	0.13	14.70	16.50	1.514	0.576	22.2
Right tilted	802.11b	6/2437	98.54%	1.015	0.403	0.193	-0.05	14.70	16.50	1.514	0.619	22.2
Left tilted	802.11b	1/2412	98.39%	1.016	0.619	0.286	-0.18	14.65	16.50	1.531	0.963	22.2
Left tilted	802.11b	11/2462	97.08%	1.030	0.672	0.280	-0.01	14.17	16.00	1.524	1.055	22.2
Body worn Test data (Separate 15mm)												
Front side	802.11b	6/2437	98.54%	1.015	0.094	0.052	0.04	17.25	19.00	1.496	0.143	22.2
Back side	802.11b	6/2437	98.54%	1.015	0.119	0.064	0.11	17.25	19.00	1.496	0.181	22.2
Hotspot Test data (Separate 10mm)												
Front side	802.11b	6/2437	98.54%	1.015	0.172	0.090	-0.12	17.25	19.00	1.496	0.261	22.2
Back side	802.11b	6/2437	98.54%	1.015	0.247	0.121	-0.04	17.25	19.00	1.496	0.375	22.2
Left side	802.11b	6/2437	98.54%	1.015	0.028	0.007	0.13	17.25	19.00	1.496	0.043	22.2
Right side	802.11b	6/2437	98.54%	1.015	0.081	0.040	-0.09	17.25	19.00	1.496	0.123	22.2



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Top side	802.11b	6/2437	98.54%	1.015	0.359	0.175	0.19	17.25	19.00	1.496	0.545	22.2
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data Standalone												
Left cheek	802.11b	6/2437	98.54%	1.015	0.550	0.243	0.04	15.85	17.50	1.462	0.816	22.2
Left tilted	802.11b	6/2437	98.54%	1.015	0.290	0.144	0.18	15.85	17.50	1.462	0.430	22.2
Right cheek	802.11b	6/2437	98.54%	1.015	0.152	0.076	0.04	15.85	17.50	1.462	0.225	22.2
Right tilted	802.11b	6/2437	98.54%	1.015	0.153	0.073	0.01	15.85	17.50	1.462	0.227	22.2
Left cheek	802.11b	1/2412	98.39%	1.016	0.587	0.261	-0.08	15.78	17.50	1.486	0.887	22.2
Left cheek	802.11b	11/2462	97.08%	1.030	0.594	0.290	-0.01	15.19	17.00	1.517	0.928	22.2
Body worn Test data (Separate 15mm)												
Front side	802.11b	6/2437	98.54%	1.015	0.150	0.077	0.06	20.34	22.00	1.466	0.223	22.2
Back side	802.11b	6/2437	98.54%	1.015	0.242	0.137	-0.09	20.34	22.00	1.466	0.360	22.2
Back side	802.11b	1/2412	98.39%	1.016	0.177	0.102	0.02	20.22	22.00	1.507	0.271	22.2
Back side	802.11b	11/2462	97.08%	1.030	0.208	0.113	0.07	20.31	22.00	1.476	0.316	22.2
Hotspot Test data (Separate 10mm)												
Front side	802.11b	6/2437	98.54%	1.015	0.188	0.092	0.17	20.34	22.00	1.466	0.280	22.2
Back side	802.11b	6/2437	98.54%	1.015	0.236	0.115	0.00	20.34	22.00	1.466	0.351	22.2
Left side	802.11b	6/2437	98.54%	1.015	0.013	0.004	-0.12	20.34	22.00	1.466	0.019	22.2
Right side	802.11b	6/2437	98.54%	1.015	0.351	0.165	0.18	20.34	22.00	1.466	0.522	22.2
Top side	802.11b	6/2437	98.54%	1.015	0.157	0.076	-0.08	20.34	22.00	1.466	0.234	22.2
Right side	802.11b	1/2412	98.39%	1.016	0.392	0.186	0.08	20.22	22.00	1.507	0.600	22.2
Right side	802.11b	11/2462	97.08%	1.030	0.724	0.376	-0.02	20.31	22.20	1.545	1.152	22.2



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8.2.25 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record												
Ant6 Test Record chain0												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A												
Left cheek	802.11n 40M	54/5270	99.67%	1.003	0.782	0.248	-0.12	16.00	17.00	1.259	0.988	22.5
Left tilted	802.11n 40M	54/5270	99.67%	1.003	0.183	0.061	-0.06	16.00	17.00	1.259	0.231	22.5
Right cheek	802.11n 40M	54/5270	99.67%	1.003	0.105	0.042	-0.02	16.00	17.00	1.259	0.133	22.5
Right tilted	802.11n 40M	54/5270	99.67%	1.003	0.065	0.024	-0.07	16.00	17.00	1.259	0.082	22.5
Left cheek	802.11n 40M	62/5310	99.67%	1.003	0.652	0.190	-0.13	15.13	16.00	1.222	0.799	22.5
Head Test Data of U-NII-2C												
Left cheek	802.11a	132/5660	99.20%	1.008	0.691	0.172	-0.09	14.43	16.00	1.435	1.000	22.5
Left tilted	802.11a	132/5660	99.20%	1.008	0.116	0.044	-0.11	14.43	16.00	1.435	0.168	22.5
Right cheek	802.11a	132/5660	99.20%	1.008	0.121	0.043	-0.02	14.43	16.00	1.435	0.175	22.5
Right tilted	802.11a	132/5660	99.20%	1.008	0.075	0.018	-0.10	14.43	16.00	1.435	0.109	22.5
Left cheek	802.11a	116/5580	99.20%	1.008	0.587	0.145	-0.12	14.30	16.00	1.479	0.875	22.5
Left cheek	802.11a	136/5680	99.20%	1.008	0.652	0.219	0.02	14.27	16.00	1.489	0.979	22.5
Head Test Data of U-NII-3												
Left cheek	802.11ax 40M	159/5795	99.67%	1.003	0.772	0.198	0.08	10.98	12.50	1.419	1.099	22.5
Left tilted	802.11ax 40M	159/5795	99.67%	1.003	0.114	0.046	-0.05	10.98	12.50	1.419	0.162	22.5
Right cheek	802.11ax 40M	159/5795	99.67%	1.003	0.140	0.046	-0.12	10.98	12.50	1.419	0.199	22.5
Right tilted	802.11ax 40M	159/5795	99.67%	1.003	0.059	0.021	-0.13	10.98	12.50	1.419	0.084	22.5
Left cheek	802.11ax 40M	151/5755	99.67%	1.003	0.498	0.075	0.02	10.84	12.50	1.466	0.732	22.5
Body worn Test data of U-NII-2A (Separate 15mm)												
Front side	802.11n 40M	54/5270	99.67%	1.003	0.086	0.029	-0.06	16.00	17.00	1.259	0.109	22.5
Back side	802.11n 40M	54/5270	99.67%	1.003	0.180	0.068	-0.14	16.00	17.00	1.259	0.227	22.5
Body worn Test data of U-NII-2C (Separate 15mm)												
Front side	802.11a	116/5580	99.20%	1.008	0.051	0.015	-0.08	16.93	18.50	1.435	0.074	22.5
Back side	802.11a	116/5580	99.20%	1.008	0.086	0.032	0.01	16.93	18.50	1.435	0.124	22.5
Body worn Test data of U-NII-3 (Separate 15mm)												
Front side	802.11ax 40M	151/5755	99.69%	1.003	0.134	0.056	-0.06	16.70	18.50	1.514	0.203	22.5
Back side	802.11ax 40M	151/5755	99.69%	1.003	0.247	0.092	0.00	16.70	18.50	1.514	0.375	22.5
Hotspot Test data of U-NII-1 (Separate 10mm)												
Front side	802.11n 40M	46/5230	99.69%	1.003	0.165	0.037	-0.04	17.60	18.50	1.230	0.204	22.5
Back side	802.11n 40M	46/5230	99.69%	1.003	0.211	0.077	-0.13	17.60	18.50	1.230	0.260	22.5
Left side	802.11n 40M	46/5230	99.69%	1.003	0.039	0.011	-0.05	17.60	18.50	1.230	0.048	22.5
Right side	802.11n 40M	46/5230	99.69%	1.003	0.099	0.037	-0.09	17.60	18.50	1.230	0.122	22.5
Top side	802.11n 40M	46/5230	99.69%	1.003	0.047	0.017	-0.12	17.60	18.50	1.230	0.058	22.5



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Hotspot Test data of U-NII-3 (Separate 10mm)												
Front side	802.11ax 40M	151/5755	99.67%	1.003	0.186	0.071	0.08	16.70	18.50	1.514	0.282	22.5
Back side	802.11ax 40M	151/5755	99.67%	1.003	0.332	0.122	-0.06	16.70	18.50	1.514	0.504	22.5
Left side	802.11ax 40M	151/5755	99.67%	1.003	0.059	0.014	-0.17	16.70	18.50	1.514	0.090	22.5
Right side	802.11ax 40M	151/5755	99.67%	1.003	0.334	0.120	0.02	16.70	18.50	1.514	0.507	22.5
Top side	802.11ax 40M	151/5755	99.67%	1.003	0.063	0.021	-0.07	16.70	18.50	1.514	0.096	22.5
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm)												
Front side	802.11n 40M	54/5270	99.67%	1.003	2.630	0.684	-0.09	16.00	17.00	1.259	0.864	22.5
Back side	802.11n 40M	54/5270	99.67%	1.003	2.700	0.748	-0.16	16.00	17.00	1.259	0.945	22.5
Left side	802.11n 40M	54/5270	99.67%	1.003	0.107	0.028	-0.09	16.00	17.00	1.259	0.035	22.5
Right side	802.11n 40M	54/5270	99.67%	1.003	3.330	0.841	-0.11	16.00	17.00	1.259	1.062	22.5
Top side	802.11n 40M	54/5270	99.67%	1.003	0.184	0.058	-0.14	16.00	17.00	1.259	0.073	22.5
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm)												
Front side	802.11a	116/5580	99.20%	1.008	1.980	0.553	-0.08	16.93	18.50	1.435	0.800	22.5
Back side	802.11a	116/5580	99.20%	1.008	2.260	0.656	0.03	16.93	18.50	1.435	0.949	22.5
Left side	802.11a	116/5580	99.20%	1.008	0.083	0.018	-0.15	16.93	18.50	1.435	0.026	22.5
Right side	802.11a	116/5580	99.20%	1.008	2.170	0.614	-0.12	16.93	18.50	1.435	0.888	22.5
Top side	802.11a	116/5580	99.20%	1.008	0.174	0.039	-0.06	16.93	18.50	1.435	0.056	22.5
Ant5 Test Record chain1												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A												
Left cheek	802.11n 40M	54/5270	99.67%	1.003	0.642	0.211	0.11	12.79	14.50	1.483	0.955	22.5
Left tilted	802.11n 40M	54/5270	99.67%	1.003	0.731	0.212	0.04	12.79	14.50	1.483	1.087	22.5
Right cheek	802.11n 40M	54/5270	99.67%	1.003	0.328	0.114	0.03	12.79	14.50	1.483	0.488	22.5
Right tilted	802.11n 40M	54/5270	99.67%	1.003	0.327	0.125	-0.05	12.79	14.50	1.483	0.486	22.5
Left cheek	802.11n 40M	62/5310	99.67%	1.003	0.366	0.123	-0.18	12.20	13.50	1.349	0.495	22.5
Left tilted	802.11n 40M	62/5310	99.67%	1.003	0.392	0.142	0.00	12.20	13.50	1.349	0.531	22.5
Head Test Data of U-NII-2C												
Left cheek	802.11a	132/5660	99.67%	1.003	0.938	0.252	0.05	12.42	13.00	1.143	1.076	22.5
Left tilted	802.11a	132/5660	99.67%	1.003	0.547	0.172	-0.06	12.42	13.00	1.143	0.627	22.5
Right cheek	802.11a	132/5660	99.67%	1.003	0.352	0.112	-0.12	12.42	13.00	1.143	0.404	22.5
Right tilted	802.11a	132/5660	99.67%	1.003	0.352	0.116	-0.01	12.42	13.00	1.143	0.404	22.5
Left tilted	802.11a	136/5680	99.67%	1.003	0.780	0.106	-0.11	12.36	13.00	1.159	0.907	22.5
Head Test Data of U-NII-3												
Left cheek	802.11ax 40M	151/5755	99.67%	1.003	0.621	0.102	-0.12	13.15	14.00	1.216	0.758	22.5
Left tilted	802.11ax 40M	151/5755	99.67%	1.003	0.908	0.235	0.00	13.15	14.00	1.216	1.108	22.5
Right cheek	802.11ax	151/5755	99.67%	1.003	0.390	0.122	0.06	13.15	14.00	1.216	0.476	22.5



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	40M												
Right tilted	802.11ax 40M	151/5755	99.67%	1.003	0.383	0.124	-0.07	13.15	14.00	1.216	0.467	22.5	
Left tilted	802.11ax 40M	159/5795	99.67%	1.003	0.635	0.099	-0.13	13.11	14.00	1.227	0.782	22.5	
Body worn Test data of U-NII-2A (Separate 15mm)													
Front side	802.11n 40M	54/5270	99.67%	1.003	0.071	0.016	-0.10	15.29	17.00	1.483	0.106	22.5	
Back side	802.11n 40M	54/5270	99.67%	1.003	0.126	0.031	-0.11	15.29	17.00	1.483	0.187	22.5	
Body worn Test data of U-NII-2C (Separate 15mm)													
Front side	802.11a	136/5680	99.67%	1.003	0.194	0.080	-0.06	17.92	18.50	1.143	0.222	22.5	
Back side	802.11a	136/5680	99.67%	1.003	0.317	0.129	-0.16	17.92	18.50	1.143	0.363	22.5	
Body worn Test data of U-NII-3 (Separate 15mm)													
Front side	802.11ax 40M	151/5755	99.69%	1.003	0.180	0.069	-0.02	17.65	18.50	1.216	0.220	22.5	
Back side	802.11ax 40M	151/5755	99.69%	1.003	0.263	0.106	-0.10	17.65	18.50	1.216	0.321	22.5	
Hotspot Test data of U-NII-1 (Separate 10mm)													
Front side	802.11n 40M	46/5230	99.69%	1.003	0.125	0.048	0.04	16.98	18.50	1.419	0.178	22.5	
Back side	802.11n 40M	46/5230	99.69%	1.003	0.226	0.082	0.00	16.98	18.50	1.419	0.322	22.5	
Left side	802.11n 40M	46/5230	99.69%	1.003	0.043	0.013	-0.10	16.98	18.50	1.419	0.061	22.5	
Right side	802.11n 40M	46/5230	99.69%	1.003	0.085	0.036	-0.13	16.98	18.50	1.419	0.121	22.5	
Top side	802.11n 40M	46/5230	99.69%	1.003	0.402	0.132	0.05	16.98	18.50	1.419	0.572	22.5	
Hotspot Test data of U-NII-3 (Separate 10mm)													
Front side	802.11ax 40M	151/5755	99.69%	1.003	0.230	0.081	0.07	17.65	18.50	1.216	0.281	22.5	
Back side	802.11ax 40M	151/5755	99.69%	1.003	0.280	0.106	-0.08	17.65	18.50	1.216	0.342	22.5	
Left side	802.11ax 40M	151/5755	99.69%	1.003	0.072	0.023	-0.16	17.65	18.50	1.216	0.088	22.5	
Right side	802.11ax 40M	151/5755	99.69%	1.003	0.070	0.033	-0.10	17.65	18.50	1.216	0.085	22.5	
Top side	802.11ax 40M	151/5755	99.69%	1.003	0.343	0.132	-0.06	17.65	18.50	1.216	0.418	22.5	
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp. (°C)	
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm)													
Front side	802.11n 40M	54/5270	99.67%	1.003	1.640	0.539	-0.04	15.29	17.00	1.483	0.802	22.5	
Back side	802.11n 40M	54/5270	99.67%	1.003	1.530	0.494	-0.10	15.29	17.00	1.483	0.735	22.5	
Left side	802.11n 40M	54/5270	99.67%	1.003	0.075	0.019	-0.08	15.29	17.00	1.483	0.028	22.5	
Right side	802.11n 40M	54/5270	99.67%	1.003	0.495	0.157	-0.04	15.29	17.00	1.483	0.234	22.5	
Top side	802.11n 40M	54/5270	99.67%	1.003	1.880	0.503	-0.08	15.29	17.00	1.483	0.748	22.5	
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm)													
Front side	802.11a	136/5680	99.20%	1.008	4.700	1.300	-0.04	17.92	18.50	1.143	1.498	22.5	
Back side	802.11a	136/5680	99.20%	1.008	5.450	1.480	-0.14	17.92	18.50	1.143	1.705	22.5	
Left side	802.11a	136/5680	99.20%	1.008	0.221	0.076	-0.01	17.92	18.50	1.143	0.088	22.5	
Right side	802.11a	136/5680	99.20%	1.008	1.090	0.344	-0.07	17.92	18.50	1.143	0.396	22.5	
Top side	802.11a	136/5680	99.20%	1.008	5.380	1.620	-0.10	17.92	18.50	1.143	1.866	22.5	



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MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A												
Left cheek	802.11n 40M	54/5270	99.67%	1.003	0.682	0.190	0.14	17.17	18.50	1.358	0.929	22.5
Left tilted	802.11n 40M	54/5270	99.67%	1.003	0.548	0.229	-0.04	17.17	18.50	1.358	0.747	22.5
Right cheek	802.11n 40M	54/5270	99.67%	1.003	0.381	0.132	-0.13	17.17	18.50	1.358	0.519	22.5
Right tilted	802.11n 40M	54/5270	99.67%	1.003	0.397	0.144	-0.10	17.17	18.50	1.358	0.541	22.5
Left cheek	802.11n 40M	62/5310	99.67%	1.003	0.556	0.177	-0.03	16.35	17.50	1.303	0.727	22.5
Head Test Data of U-NII-2C												
Left cheek	802.11a	136/5680	99.20%	1.008	0.772	0.209	-0.04	14.39	15.50	1.291	1.005	22.5
Left tilted	802.11a	136/5680	99.20%	1.008	0.538	0.167	-0.05	14.39	15.50	1.291	0.700	22.5
Right cheek	802.11a	136/5680	99.20%	1.008	0.322	0.104	-0.15	14.39	15.50	1.291	0.419	22.5
Right tilted	802.11a	136/5680	99.20%	1.008	0.316	0.106	-0.08	14.39	15.50	1.291	0.411	22.5
Left cheek	802.11a	132/5660	99.20%	1.008	0.530	0.169	-0.13	14.37	15.50	1.297	0.693	22.5
Left cheek	802.11a	116/5580	99.20%	1.008	0.424	0.110	0.06	14.33	15.50	1.309	0.560	22.5
Head Test Data of U-NII-3												
Left cheek	802.11ax 40M	159/5795	99.69%	1.003	0.850	0.224	0.05	14.39	15.50	1.291	1.101	22.5
Left tilted	802.11ax 40M	159/5795	99.69%	1.003	0.545	0.142	0.05	14.39	15.50	1.291	0.706	22.5
Right cheek	802.11ax 40M	159/5795	99.69%	1.003	0.276	0.088	0.00	14.39	15.50	1.291	0.357	22.5
Right tilted	802.11ax 40M	159/5795	99.69%	1.003	0.261	0.085	-0.14	14.39	15.50	1.291	0.338	22.5
Left cheek	802.11ax 40M	151/5755	99.69%	1.003	0.685	0.151	-0.17	14.24	15.50	1.337	0.918	22.5
Body worn Test data of U-NII-2A (Separate 15mm)												
Front side	802.11n 40M	54/5270	99.67%	1.003	0.069	0.027	-0.06	18.67	20.00	1.358	0.094	22.5
Back side	802.11n 40M	54/5270	99.67%	1.003	0.177	0.069	-0.16	18.67	20.00	1.358	0.241	22.5
Body worn Test data of U-NII-2C (Separate 15mm)												
Front side	802.11a	136/5680	99.20%	1.008	0.200	0.083	0.05	20.39	21.50	1.291	0.260	22.5
Back side	802.11a	136/5680	99.20%	1.008	0.301	0.115	-0.02	20.39	21.50	1.291	0.392	22.5
Body worn Test data of U-NII-3 (Separate 15mm)												
Front side	802.11ax 40M	151/5755	99.67%	1.003	0.248	0.095	0.09	20.21	21.50	1.345	0.335	22.5
Back side	802.11ax 40M	151/5755	99.67%	1.003	0.316	0.126	-0.09	20.21	21.50	1.345	0.427	22.5
Hotspot Test data of U-NII-1 (Separate 10mm)												
Front side	802.11n 40M	46/5230	99.69%	1.003	0.186	0.075	-0.15	20.31	21.50	1.315	0.245	22.5
Back side	802.11n 40M	46/5230	99.69%	1.003	0.300	0.118	0.01	20.31	21.50	1.315	0.396	22.5
Left side	802.11n 40M	46/5230	99.69%	1.003	0.063	0.015	-0.10	20.31	21.50	1.315	0.083	22.5
Right side	802.11n 40M	46/5230	99.69%	1.003	0.145	0.061	-0.07	20.31	21.50	1.315	0.191	22.5
Top side	802.11n 40M	46/5230	99.69%	1.003	0.438	0.149	0.05	20.31	21.50	1.315	0.578	22.5
Hotspot Test data of U-NII-3 (Separate 10mm)												
Front side	802.11ax 40M	151/5755	99.67%	1.003	0.338	0.125	0.05	20.21	21.50	1.345	0.456	22.5
Back side	802.11ax 40M	151/5755	99.67%	1.003	0.254	0.142	-0.09	20.21	21.50	1.345	0.343	22.5



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Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Left side	802.11ax 40M	151/5755	99.67%	1.003	0.108	0.030	-0.15	20.21	21.50	1.345	0.146	22.5
Right side	802.11ax 40M	151/5755	99.67%	1.003	0.357	0.162	-0.16	20.21	21.50	1.345	0.482	22.5
Top side	802.11ax 40M	151/5755	99.67%	1.003	0.374	0.179	-0.02	20.21	21.50	1.345	0.505	22.5
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm)												
Front side	802.11n 40M	54/5270	99.69%	1.003	2.890	0.716	0.03	18.67	20.00	1.358	0.976	22.5
Back side	802.11n 40M	54/5270	99.69%	1.003	2.200	0.673	-0.05	18.67	20.00	1.358	0.917	22.5
Left side	802.11n 40M	54/5270	99.69%	1.003	0.157	0.036	-0.13	18.67	20.00	1.358	0.049	22.5
Right side	802.11n 40M	54/5270	99.69%	1.003	3.470	0.912	-0.06	18.67	20.00	1.358	1.243	22.5
Top side	802.11n 40M	54/5270	99.69%	1.003	2.130	0.562	0.06	18.67	20.00	1.358	0.766	22.5
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm)												
Front side	802.11a	136/5680	99.20%	1.008	4.800	1.404	-0.03	20.39	21.50	1.290	1.826	22.5
Back side	802.11a	136/5680	99.20%	1.008	5.436	1.540	-0.11	20.39	21.50	1.290	2.003	22.5
Left side	802.11a	136/5680	99.20%	1.008	0.232	0.080	-0.07	20.39	21.50	1.290	0.104	22.5
Right side	802.11a	136/5680	99.20%	1.008	3.636	1.114	0.03	20.39	21.50	1.290	1.449	22.5
Top side	802.11a	136/5680	99.20%	1.008	7.560	1.890	0.05	20.39	21.50	1.290	2.458	22.5
Top side	802.11a	132/5660	99.20%	1.008	5.800	1.670	-0.12	20.37	21.50	1.296	2.182	22.5
Top side	802.11a	116/5580	99.20%	1.008	5.580	1.450	-0.16	20.33	21.50	1.309	1.914	22.5



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8.2.26 SAR Result of WIFI 6E

Wi-Fi 6E SAR Test Record													
Ant6 Test Record chain0													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	APD W/m ² (4cm ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-5													
Left cheek	802.11ac 160M	79/6345	99.67%	1.003	0.789	0.195	4.630	-0.08	12.75	13.00	1.059	0.839	22.3
Left tilted	802.11ac 160M	79/6345	99.67%	1.003	0.278	0.107	1.980	0.02	12.75	13.00	1.059	0.295	22.3
Right cheek	802.11ac 160M	79/6345	99.67%	1.003	0.338	0.110	2.150	0.09	12.75	13.00	1.059	0.359	22.3
Right tilted	802.11ac 160M	79/6345	99.67%	1.003	0.184	0.069	1.330	0.01	12.75	13.00	1.059	0.196	22.3
Left cheek	802.11ac 160M	15/6025	99.67%	1.003	0.456	0.149	2.290	0.02	11.75	13.00	1.334	0.610	22.3
Left cheek	802.11ac 160M	47/6185	99.65%	1.004	0.413	0.132	2.060	0.06	11.18	13.00	1.521	0.630	22.3
Body worn Test data of U-NII-5 (Separate 15mm)													
Front side	802.11ac 160M	79/6345	99.67%	1.003	0.022	0.008	0.476	-0.08	8.71	9.50	1.199	0.026	22.3
Back side	802.11ac 160M	79/6345	99.67%	1.003	0.076	0.027	0.611	-0.09	8.71	9.50	1.199	0.091	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	APD W/m ² (4cm ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-5(Separate 0mm)													
Front side	802.11ac 160M	79/6345	99.67%	1.003	1.000	0.217	5.150	-0.15	8.85	9.50	1.161	0.253	22.3
Back side	802.11ac 160M	79/6345	99.67%	1.003	0.945	0.211	4.765	0.12	8.85	9.50	1.161	0.246	22.3
Left side	802.11ac 160M	79/6345	99.67%	1.003	0.030	0.007	0.303	-0.19	8.85	9.50	1.161	0.008	22.3
Right side	802.11ac 160M	79/6345	99.67%	1.003	0.225	0.078	0.918	0.14	8.85	9.50	1.161	0.091	22.3
Top side	802.11ac 160M	79/6345	99.67%	1.003	0.024	0.006	0.270	0.06	8.85	9.50	1.161	0.007	22.3
Ant5 Test Record chain1													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	APD W/m ² (4cm ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-5													
Left cheek	802.11ac 160M	15/6025	99.67%	1.003	0.574	0.168	2.480	0.01	15.31	16.50	1.315	0.757	22.3
Left tilted	802.11ac 160M	15/6025	99.67%	1.003	0.480	0.140	2.240	-0.03	15.31	16.50	1.315	0.633	22.3
Right cheek	802.11ac 160M	15/6025	99.67%	1.003	0.429	0.121	2.160	-0.11	15.31	16.50	1.315	0.566	22.3
Right tilted	802.11ac 160M	15/6025	99.67%	1.003	0.356	0.100	2.070	-0.03	15.31	16.50	1.315	0.470	22.3
Body worn Test data of U-NII-5 (Separate 15mm)													
Front side	802.11ac 160M	15/6025	99.67%	1.003	0.047	0.017	0.583	-0.09	8.35	9.50	1.303	0.061	22.3
Back side	802.11ac 160M	15/6025	99.67%	1.003	0.060	0.018	0.611	-0.09	8.35	9.50	1.303	0.078	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	APD W/m ² (4cm ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-5 (Separate 0mm)													
Front side	802.11ac 160M	15/6025	99.67%	1.003	0.285	0.080	1.250	0.12	8.35	9.50	1.303	0.105	22.3
Back side	802.11ac 160M	15/6025	99.67%	1.003	0.314	0.086	1.330	-0.05	8.35	9.50	1.303	0.112	22.3
Left side	802.11ac 160M	15/6025	99.67%	1.003	0.024	0.006	0.754	0.08	8.35	9.50	1.303	0.008	22.3



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Right side	802.11ac 160M	15/6025	99.67%	1.003	0.044	0.014	0.978	0.19	8.35	9.50	1.303	0.018	22.3
Top side	802.11ac 160M	15/6025	99.67%	1.003	0.559	0.133	3.130	-0.03	8.35	9.50	1.303	0.174	22.3
MIMO Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	APD W/m ² (4cm ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-5													
Left cheek	802.11ac 160M	79/6345	99.67%	1.003	0.738	0.189	4.450	0.02	14.80	16.00	1.318	0.976	22.3
Left tilted	802.11ac 160M	79/6345	99.67%	1.003	0.152	0.056	1.630	0.13	14.80	16.00	1.318	0.201	22.3
Right cheek	802.11ac 160M	79/6345	99.67%	1.003	0.133	0.050	1.540	0.13	14.80	16.00	1.318	0.176	22.3
Right tilted	802.11ac 160M	79/6345	99.67%	1.003	0.092	0.032	1.240	-0.01	14.80	16.00	1.318	0.122	22.3
Left cheek	802.11ac 160M	15/6025	99.67%	1.003	0.473	0.162	3.580	0.05	14.58	16.00	1.387	0.658	22.3
Left cheek	802.11ac 160M	47/6185	99.65%	1.004	0.456	0.155	3.160	0.14	14.15	16.00	1.531	0.701	22.3
Body worn Test data of U-NII-5 (Separate 15mm)													
Front side	802.11ac 160M	79/6345	99.67%	1.003	0.044	0.016	0.470	0.01	11.31	12.50	1.314	0.058	22.3
Back side	802.11ac 160M	79/6345	99.67%	1.003	0.075	0.027	0.607	0.09	11.31	12.50	1.314	0.099	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	APD W/m ² (4cm ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-5 (Separate 0mm)													
Front side	802.11ac 160M	79/6345	99.67%	1.003	0.881	0.195	4.640	0.03	11.31	12.50	1.314	0.257	22.3
Back side	802.11ac 160M	79/6345	99.67%	1.003	0.225	0.060	1.457	0.01	11.31	12.50	1.314	0.079	22.3
Left side	802.11ac 160M	79/6345	99.67%	1.003	0.019	0.005	0.521	0.02	11.31	12.50	1.314	0.007	22.3
Right side	802.11ac 160M	79/6345	99.67%	1.003	0.599	0.160	3.360	-0.15	11.31	12.50	1.314	0.211	22.3
Top side	802.11ac 160M	79/6345	99.67%	1.003	0.167	0.052	1.197	-0.02	11.31	12.50	1.314	0.069	22.3



8.2.27 SAR Result of BT

Bluetooth SAR Test Record												
Ant6 Test Record(chain0)												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	DH5	78/2480	77.11%	1.297	0.293	0.127	0.00	13.43	14.00	1.140	0.433	22.3
Left tilted	DH5	78/2480	77.11%	1.297	0.137	0.063	0.00	13.43	14.00	1.140	0.203	22.3
Right cheek	DH5	78/2480	77.11%	1.297	0.084	0.045	-0.11	13.43	14.00	1.140	0.124	22.3
Right tilted	DH5	78/2480	77.11%	1.297	0.049	0.027	0.06	13.43	14.00	1.140	0.072	22.3
Left cheek	DH5	0/2402	77.11%	1.297	0.232	0.108	0.00	12.70	14.00	1.349	0.406	22.3
Left cheek	DH5	39/2441	77.11%	1.297	0.236	0.121	-0.15	12.83	14.00	1.309	0.401	22.3
Body worn Test data (Separate 15mm)												
Front side	DH5	78/2480	77.11%	1.297	0.084	0.044	0.11	17.43	18.00	1.140	0.124	22.3
Back side	DH5	78/2480	77.11%	1.297	0.125	0.071	-0.03	17.43	18.00	1.140	0.185	22.3
Back side	DH5	0/2402	77.11%	1.297	0.097	0.054	-0.03	16.70	18.00	1.349	0.170	22.3
Back side	DH5	39/2441	77.11%	1.297	0.105	0.061	-0.03	16.83	18.00	1.309	0.178	22.3
Hotspot Test data (Separate 10mm)												
Front side	DH5	78/2480	77.11%	1.297	0.117	0.087	0.16	17.43	18.00	1.140	0.173	22.3
Back side	DH5	78/2480	77.11%	1.297	0.238	0.117	-0.09	17.43	18.00	1.140	0.352	22.3
Left side	DH5	78/2480	77.11%	1.297	0.037	0.008	-0.07	17.43	18.00	1.140	0.055	22.3
Right side	DH5	78/2480	77.11%	1.297	0.514	0.255	-0.01	17.43	18.00	1.140	0.760	22.3
Top side	DH5	78/2480	77.11%	1.297	0.018	0.007	0.16	17.43	18.00	1.140	0.027	22.3
Ant7 Test Record(chain1)												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	DH5	78/2480	77.11%	1.297	0.258	0.123	-0.15	17.42	18.00	1.143	0.382	22.3
Left tilted	DH5	78/2480	77.11%	1.297	0.381	0.158	0.15	17.42	18.00	1.143	0.565	22.3
Right cheek	DH5	78/2480	77.11%	1.297	0.163	0.078	-0.18	17.42	18.00	1.143	0.242	22.3
Right tilted	DH5	78/2480	77.11%	1.297	0.189	0.086	0.06	17.42	18.00	1.143	0.280	22.3
Left tilted	DH5	0/2402	77.11%	1.297	0.189	0.087	-0.12	16.41	18.00	1.442	0.353	22.3
Left tilted	DH5	39/2441	77.11%	1.297	0.225	0.102	0.17	17.02	18.00	1.253	0.366	22.3
Body worn Test data (Separate 15mm)												
Front side	DH5	78/2480	77.11%	1.297	0.049	0.027	0.04	17.42	18.00	1.143	0.073	22.3
Back side	DH5	78/2480	77.11%	1.297	0.072	0.038	0.16	17.42	18.00	1.143	0.107	22.3
Hotspot Test data (Separate 10mm)												
Front side	DH5	78/2480	77.11%	1.297	0.095	0.048	0.11	17.42	18.00	1.143	0.141	22.3
Back side	DH5	78/2480	77.11%	1.297	0.168	0.085	-0.16	17.42	18.00	1.143	0.249	22.3



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Left side	DH5	78/2480	77.11%	1.297	0.042	0.011	0.02	17.42	18.00	1.143	0.062	22.3
Right side	DH5	78/2480	77.11%	1.297	0.054	0.027	0.03	17.42	18.00	1.143	0.080	22.3
Top side	DH5	78/2480	77.11%	1.297	0.311	0.143	-0.11	17.42	18.00	1.143	0.461	22.3



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9 Sub6 antenna groups

The 2nd generation of Smart Transmit (GEN2) operates based on pre-defined sub6 antenna groups (AG) and/or mmW module groups (MG). Sub6 Tx antennas in UE are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating below conditions for all exposure positions under each DSI for a given exposure category.

This device supports two sub6 AG: AG0 and AG1, with AG0 having 7 WWAN antennas (1, 2, 3, 4, 5, 6, 7, 8) and AG1 having 2 WWAN antennas (0, 2), and Wi-Fi/BT is also included in Smart Transmit. Therefore, there's no need to calculate the co - transmission scenarios of Wi-Fi/BT+WWAN, as this aspect has already been taken into account in Part 2. The conditions are verified through the following criteria:

1. Sum of SAR: Demonstrate that the sum of $max.norm.exp.AGi$ ($i = 1, 2, \dots, m$ for m antenna groups) and the reported normalized SAR values from radios outside Smart Transmit should be less than the regulatory limit for each supported DSI.
2. If the Sum of SAR is NOT met, then for a given antenna grouping scheme plus external radios/antennas (ERs) (referred to as 'configuration'), demonstrate all AG pairs, all ER pairs and all (AG, ER) pairs in the configuration meet Combine SAR for each exposure position under each supported DSI.



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9.1 Head SAR Antenna Group Analysis

AG0 Head Highest Reported SAR										
Test Position	Ant1	Ant3	Ant4	Ant5	Ant6	Ant7	Ant8	WIFI2.4G MIMO	WIFI5G&6G MIMO	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Left cheek	1.021	0.848	0.468	1.076	1.099	0.805	1.085	0.928	1.101	1.101
Left tilted	0.189	0.757	0.670	1.108	0.295	1.055	0.242	0.430	0.747	1.108
Right cheek	0.551	1.092	1.183	0.488	0.359	0.576	0.891	0.225	0.519	1.183
Right tilted	0.141	0.663	1.003	0.486	0.196	0.619	0.155	0.227	0.541	1.003

AG0 Head Highest Reported SAR			
Test Position	Ant0	Ant2	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Left cheek	0.218	0.253	0.253
Left tilted	0.166	0.108	0.166
Right cheek	0.350	0.150	0.350
Right tilted	0.225	0.096	0.225

AG0+AG1+Wlan&BT MAX Head Highest Reported SAR			
Test Position	AG0	AG1	AG0+AG1+Wlan&BT MAX Summed
Left cheek	1.101	0.253	1.354
Left tilted	1.108	0.166	1.274
Right cheek	1.183	0.350	1.533
Right tilted	1.003	0.225	1.228



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9.2 Body worn SAR Antenna Group Analysis

AG0 Head Highest Reported SAR										
Test Position	Ant1	Ant3	Ant4	Ant5	Ant6	Ant7	Ant8	WIFI2.4G MIMO	WIFI5G&6G MIMO	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front side	0.415	0.348	0.192	0.596	0.210	0.143	0.244	0.223	0.335	0.596
Back side	0.602	0.659	0.257	0.438	0.375	0.181	0.410	0.360	0.427	0.659

AG0 Head Highest Reported SAR			
Test Position	Ant0	Ant2	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front side	0.257	0.311	0.311
Back side	0.264	0.398	0.398

AG0+AG1+Wlan&BT MAX Head Highest Reported SAR			
Test Position	AG0	AG1	AG0+AG1+Wlan&BT MAX Summed
Front side	0.596	0.311	0.907
Back side	0.659	0.398	1.057



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9.3 Hotspot SAR Antenna Group Analysis

AG0 Head Highest Reported SAR										
Test Position	Ant1	Ant3	Ant4	Ant5	Ant6	Ant7	Ant8	WIFI2.4G MIMO	WIFI5G&6 GMIMO	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front side	0.738	0.591	0.440	1.138	0.320	0.261	0.492	0.280	0.456	1.138
Back side	0.797	0.634	0.562	0.813	0.504	0.375	0.539	0.351	0.396	0.813
Left side	1.068	0.954	0.499	0.485	0.090	0.062	0.044	0.019	0.146	1.068
Right side	0.152	0.080	0.142	0.997	0.760	0.123	1.080	1.152	0.482	1.152
Top side	0.026	0.521	0.961	0.887	0.096	0.545	0.124	0.234	0.578	0.961
Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

AG1 Head Highest Reported SAR			
Test Position	Ant0	Ant2	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front side	0.398	0.642	0.642
Back side	0.470	0.837	0.837
Left side	0.180	1.070	1.070
Right side	0.554	0.091	0.554
Top side	0.000	0.000	0.000
Bottom side	0.268	0.675	0.675

AG0+AG1 MAX Head Highest Reported SAR			
Test Position	AG0	AG1	AG0+AG1 MAX Summed
Front side	1.138	0.642	1.780
Back side	0.813	0.837	1.650
Left side	1.068	1.070	2.138
Right side	1.152	0.554	1.706
Top side	0.961	0.000	0.961
Bottom side	0.000	0.675	0.675

AG0+AG1 MAX Front side Summed Reported SAR				
Ant combination	AG0	AG1	AG0+AG1 MAX Summed	Case No.
Ant1+Ant0	0.738	0.398	1.136	/
Ant3+Ant0	0.591	0.398	0.989	/
Ant4+Ant0	0.440	0.398	0.838	/
Ant5+Ant0	1.138	0.398	1.536	/
Ant6+Ant0	0.320	0.398	0.718	/



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Ant7+Ant0	0.261	0.398	0.659	/
Ant8+Ant0	0.492	0.398	0.890	/
2.4GWIFIMIMO+Ant0	0.280	0.398	0.678	/
5/6GWIFIMIMO+Ant0	0.456	0.398	0.854	/
Ant1+Ant2	0.738	0.642	1.380	/
Ant3+Ant2	0.591	0.642	1.233	/
Ant4+Ant2	0.440	0.642	1.082	/
Ant5+Ant2	1.138	0.642	1.780	1#
Ant6+Ant2	0.320	0.642	0.962	/
Ant7+Ant2	0.261	0.642	0.903	/
Ant8+Ant2	0.492	0.642	1.134	/
2.4GWIFIMIMO+Ant2	0.280	0.642	0.922	/
5/6GWIFIMIMO+Ant2	0.456	0.642	1.098	/

AG0+AG1 MAX Back side Summed Reported SAR				
Ant combination	AG0	AG1	AG0+AG1 MAX Summed	Case No.
Ant1+Ant0	0.797	0.470	1.267	/
Ant3+Ant0	0.634	0.470	1.104	/
Ant4+Ant0	0.562	0.470	1.032	/
Ant5+Ant0	0.813	0.470	1.283	/
Ant6+Ant0	0.504	0.470	0.974	/
Ant7+Ant0	0.375	0.470	0.845	/
Ant8+Ant0	0.539	0.470	1.009	/
2.4GWIFIMIMO+Ant0	0.351	0.470	0.821	/
5/6GWIFIMIMO+Ant0	0.396	0.470	0.866	/
Ant1+Ant2	0.797	0.837	1.634	2#
Ant3+Ant2	0.634	0.837	1.471	/
Ant4+Ant2	0.562	0.837	1.399	/
Ant5+Ant2	0.813	0.837	1.650	3#
Ant6+Ant2	0.504	0.837	1.341	/
Ant7+Ant2	0.375	0.837	1.212	/
Ant8+Ant2	0.539	0.837	1.376	/
2.4GWIFIMIMO+Ant2	0.351	0.837	1.188	/
5/6GWIFIMIMO+Ant2	0.396	0.837	1.233	/

AG0+AG1 MAX Left side Summed Reported SAR				
Ant combination	AG0	AG1	AG0+AG1 MAX Summed	Case No.
Ant1+Ant0	1.068	0.180	1.248	/
Ant3+Ant0	0.954	0.180	1.134	/
Ant4+Ant0	0.499	0.180	0.679	/
Ant5+Ant0	0.485	0.180	0.665	/
Ant6+Ant0	0.090	0.180	0.270	/
Ant7+Ant0	0.062	0.180	0.242	/



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Ant8+Ant0	0.044	0.180	0.224	/
2.4GWIFIMIMO+Ant0	0.019	0.180	0.199	/
5/6GWIFIMIMO+Ant0	0.146	0.180	0.326	/
Ant1+Ant2	1.068	1.070	2.138	4#
Ant3+Ant2	0.954	1.070	2.024	5#
Ant4+Ant2	0.499	1.070	1.569	/
Ant5+Ant2	0.485	1.070	1.555	/
Ant6+Ant2	0.090	1.070	1.160	/
Ant7+Ant2	0.062	1.070	1.132	/
Ant8+Ant2	0.044	1.070	1.114	/
2.4GWIFIMIMO+Ant2	0.019	1.070	1.089	/
5/6GWIFIMIMO+Ant2	0.146	1.070	1.216	/

AG0+AG1 MAX Right side Summed Reported SAR				
Ant combination	AG0	AG1	AG0+AG1 MAX Summed	Case No.
Ant1+Ant0	0.152	0.554	0.706	/
Ant3+Ant0	0.080	0.554	0.634	/
Ant4+Ant0	0.142	0.554	0.696	/
Ant5+Ant0	0.997	0.554	1.551	/
Ant6+Ant0	0.760	0.554	1.314	/
Ant7+Ant0	0.123	0.554	0.677	/
Ant8+Ant0	1.080	0.554	1.634	6#
2.4GWIFIMIMO+Ant0	1.152	0.554	1.706	7#
5/6GWIFIMIMO+Ant0	0.482	0.554	1.036	/
Ant1+Ant2	0.152	0.091	0.243	/
Ant3+Ant2	0.080	0.091	0.171	/
Ant4+Ant2	0.142	0.091	0.233	/
Ant5+Ant2	0.997	0.091	1.088	/
Ant6+Ant2	0.760	0.091	0.851	/
Ant7+Ant2	0.123	0.091	0.214	/
Ant8+Ant2	1.080	0.091	1.171	/
2.4GWIFIMIMO+Ant2	1.152	0.091	1.243	/
5/6GWIFIMIMO+Ant2	0.482	0.091	0.573	/



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SPLSR General Note:

1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR, or $SPLSR \leq 0.10$ for 10g SAR simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, WLAN antenna 3/4/5/6 was summed algebraically with the BT Antenna 6 separately for the purposes of hybrid SPLSR combination and they are located at the top of the device.
4. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.

SPLSR:

Case No.	Position	Band	SAR (W/kg)	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
1#	Front Side 10mm	AG0 N48(Ant5)	1.138	11.4	71.8	-2	139.924	1.780	0.02	Not Required
		AG1 WCDMA B4 (Ant 2)	0.642	-35.3	-60.1	-1.57				
2#	Back Side 10mm	AG0 WCDMA B5 (Ant 1)	0.797	1.5	10.6	-3.66	66.906	1.634	0.03	Not Required
		AG1 WCDMA B4 (Ant 2)	0.837	36.5	-46.4	-2.1				
3#	Back Side 10mm	AG0 N48(Ant5)	0.813	-38	43.5	-2.31	116.757	1.650	0.02	Not Required
		AG1 WCDMA B4 (Ant 2)	0.837	36.5	-46.4	-2.1				
4#	Left Side 10mm	AG0 WCDMA B5 (Ant 1)	1.068	3.45	45.6	-6.7	92.494	2.138	0.03	Not Required
		AG1 N7(Ant2)	1.070	1.2	-46.8	-3.2				
5#	Left Side 10mm	AG0 WCDMA B4 (Ant3)	0.954	-3.5	42.3	-2.4	89.227	2.024	0.03	Not Required
		AG1 N7(Ant2)	1.070	1.2	-46.8	-3.2				
6#	Right Side 10mm	AG0 LTE B41 (Ant8)	1.080	-30.4	35.12	-1.98	98.962	1.634	0.02	Not Required
		AG1 LTE B12 (Ant0)	0.554	32.1	-41.6	-3.14				
7#	Right Side 10mm	AG0 2.4WIFI (MIMO)	1.152	-37.4	41.6	-2.68	108.410	1.706	0.02	Not Required
		AG1 LTE B12(Ant0)	0.554	32.1	-41.6	-3.14				



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10 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483) cDASY8 V16.4.0.5005				
Hardware Reference						
Equipment	Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/>	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-020	NCR	NCR
<input checked="" type="checkbox"/>	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-022	NCR	NCR
<input checked="" type="checkbox"/>	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-027	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	SZ-WSR-M-029	2025/01/20	2026/01/19
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4ip	SZ-WSR-M-078	2024/10/18	2025/10/17
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	SZ-WSR-M-081	2024/08/15	2025/08/14
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-069	2024/07/29	2025/07/28
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-079	2024/11/20	2025/11/19
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-082	2024/09/19	2025/09/18
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1950V3	SZ-WSR-M-037	2022/10/31	2025/10/30
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2300V2	SZ-WSR-M-038	2022/06/16	2025/06/15
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2022/06/14	2025/06/13
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3500V2	SZ-WSR-M-041	2022/09/19	2025/09/18
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3700V2	SZ-WSR-M-042	2022/09/15	2025/09/14
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3900V2	SZ-WSR-M-043	2022/09/16	2025/09/15
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D6.5GHzV2	SZ-WSR-M-080	2023/09/11	2026/09/10
<input checked="" type="checkbox"/>	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25
<input checked="" type="checkbox"/>	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2024/06/26	2025/06/25
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2025/01/08	2026/01/07
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2024/05/24	2025/05/23
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2024/08/19	2025/08/18
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2025/01/07	2026/01/06



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<input checked="" type="checkbox"/>	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
<input checked="" type="checkbox"/>	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR
<input checked="" type="checkbox"/>	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/01/07	2026/01/06
<input checked="" type="checkbox"/>	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/01/07	2026/01/06
<input checked="" type="checkbox"/>	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/01/08	2026/01/07
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29
<input checked="" type="checkbox"/>	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29
<input checked="" type="checkbox"/>	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2024/05/28	2025/05/27
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2024/05/28	2025/05/27
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2024/05/28	2025/05/27

Note: All the equipment are within the valid period when the tests are performed.



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11 Calibration certificate

Please see the Appendix C

12 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

--- End of report ---



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