



FCC SAR Test Report

Report No. : FA561202

	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 12	DSI 4	55830	3609	1	20.69	21.30	1.151	62.9	1.006	-0.04	0.251	0.291
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 12	DSI 4	55830	3609	1	20.69	21.30	1.151	62.9	1.006	-0.01	0.336	0.389
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 12	DSI 4	55830	3609	1	20.69	21.30	1.151	62.9	1.006	0.14	0.505	0.585
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 12	DSI 4	55830	3609	1	20.69	21.30	1.151	62.9	1.006	0.03	0.165	0.191
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 12	DSI 4	55830	3609	1	19.95	21.30	1.365	62.9	1.006	-0.13	0.207	0.284
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 12	DSI 4	55830	3609	1	19.95	21.30	1.365	62.9	1.006	0.15	0.292	0.401
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 12	DSI 4	55830	3609	1	19.95	21.30	1.365	62.9	1.006	0.07	0.405	0.556
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 12	DSI 4	55830	3609	1	19.95	21.30	1.365	62.9	1.006	-0.02	0.139	0.191
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 10	DSI 4	641666	3624.99	1	18.39	19.20	1.205	-	-	0.06	0.329	0.396
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	641666	3624.99	1	18.39	19.20	1.205	-	-	0.15	0.429	0.517
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 10	DSI 4	641666	3624.99	1	18.39	19.20	1.205	-	-	0	0.603	0.727
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 10	DSI 4	641666	3624.99	1	18.39	19.20	1.205	-	-	0.1	0.129	0.155
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 10	DSI 4	638000	3570	1	18.28	19.20	1.236	-	-	-0.06	0.620	0.766
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 10	DSI 4	645332	3679.98	1	18.30	19.20	1.230	-	-	0.16	0.590	0.726
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 10	DSI 4	641666	3624.99	1	18.36	19.20	1.213	-	-	0.07	0.331	0.402
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 10	DSI 4	641666	3624.99	1	18.36	19.20	1.213	-	-	-0.06	0.370	0.449
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	10mm	Ant 10	DSI 4	641666	3624.99	1	18.36	19.20	1.213	-	-	-0.15	0.611	0.741
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	10mm	Ant 10	DSI 4	641666	3624.99	1	18.36	19.20	1.213	-	-	-0.08	0.133	0.161
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	10mm	Ant 10	DSI 4	638000	3570	1	18.24	19.20	1.247	-	-	0.08	0.607	0.757
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	10mm	Ant 10	DSI 4	645332	3679.98	1	18.26	19.20	1.242	-	-	0.07	0.576	0.715
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Side	10mm	Ant 10	DSI 4	641666	3624.99	1	18.29	19.20	1.233	-	-	-0.04	0.482	0.594
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 13	DSI 4	641666	3624.99	1	17.77	18.80	1.268	-	-	0.18	0.204	0.259
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 13	DSI 4	641666	3624.99	1	17.77	18.80	1.268	-	-	-0.18	0.307	0.389
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 13	DSI 4	641666	3624.99	1	17.77	18.80	1.268	-	-	-0.07	0.026	0.033
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 13	DSI 4	641666	3624.99	1	17.77	18.80	1.268	-	-	0.05	0.545	0.691
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 13	DSI 4	638000	3570	1	17.60	18.80	1.318	-	-	0.09	0.561	0.740
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 13	DSI 4	645332	3679.98	1	17.74	18.80	1.276	-	-	-0.03	0.440	0.562
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 13	DSI 4	641666	3624.99	1	17.74	18.80	1.276	-	-	0.04	0.160	0.204
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 13	DSI 4	641666	3624.99	1	17.74	18.80	1.276	-	-	-0.05	0.262	0.334
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	10mm	Ant 13	DSI 4	641666	3624.99	1	17.74	18.80	1.276	-	-	0.07	0.031	0.040
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	10mm	Ant 13	DSI 4	641666	3624.99	1	17.74	18.80	1.276	-	-	0.05	0.496	0.633
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	10mm	Ant 13	DSI 4	638000	3570	1	17.52	18.80	1.343	-	-	-0.04	0.549	0.737
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	10mm	Ant 13	DSI 4	645332	3679.98	1	17.67	18.80	1.297	-	-	-0.19	0.418	0.542
	FR1 n48	40M	QPSK	100	0	DFT-30	Top Side	10mm	Ant 13	DSI 4	641666	3624.99	1	17.73	18.80	1.279	-	-	-0.05	0.391	0.500
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	641666	3624.99	1	19.75	20.70	1.245	-	-	0.06	0.073	0.091
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	641666	3624.99	1	19.75	20.70	1.245	-	-	-0.03	0.265	0.330
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	641666	3624.99	1	19.75	20.70	1.245	-	-	-0.04	0.093	0.116
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	641666	3624.99	1	19.75	20.70	1.245	-	-	0.1	0.111	0.138
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 4	DSI 4	641666	3624.99	1	19.70	20.70	1.259	-	-	-0.01	0.058	0.073
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 4	DSI 4	641666	3624.99	1	19.70	20.70	1.259	-	-	0	0.225	0.283
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	10mm	Ant 4	DSI 4	641666	3624.99	1	19.70	20.70	1.259	-	-	0.07	0.076	0.096
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	10mm	Ant 4	DSI 4	641666	3624.99	1	19.70	20.70	1.259	-	-	0.09	0.093	0.117
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 12	DSI 4	641666	3624.99	1	19.88	20.70	1.208	-	-	-0.01	0.354	0.428
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	641666	3624.99	1	19.88	20.70	1.208	-	-	0.02	0.585	0.707
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 12	DSI 4	641666	3624.99	1	19.88	20.70	1.208	-	-	-0.06	0.704	0.850
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 12	DSI 4	641666	3624.99	1	19.88	20.70	1.208	-	-	-0.07	0.237	0.286
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	638000	3570	1	19.87	20.70	1.211	-	-	0.17	0.707	0.856
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	645332	3679.98	1	19.80	20.70	1.230	-	-	-0.03	0.527	0.648
71	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 12	DSI 4	638000	3570	1	19.87	20.70	1.211	-	-	0.1	0.867	1.050
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 12	DSI 4	645332	3679.98	1	19.80	20.70	1.230	-	-	-0.04	0.634	0.780
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 12	DSI 4	641666	3624.99	1	19.82	20.70	1.225	-	-	0.14	0.321	0.393
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 12	DSI 4	641666	3624.99	1	19.82	20.70	1.225	-	-	0.16	0.470	0.576
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	10mm	Ant 12	DSI 4	641666	3624.99	1	19.82	20.70	1.225	-	-	0.06	0.567	0.694
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	10mm	Ant 12	DSI 4	641666	3624.99	1	19.82	20.70	1.225	-	-	-0.07	0.210	0.257
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	10mm	Ant 12	DSI 4	638000	3570	1	19.80	20.70	1.230	-	-	-0.16	0.777	0.956
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	10mm	Ant 12	DSI 4	645332	3679.98	1	19.75	20.70	1.245	-	-	0.07	0.559	0.696



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	FR1 n48	40M	QPSK	100	0	DFT-30	Back	10mm	Ant 12	DSI 4	641666	3624.99	1	16.89	18.20	1.352	-	-	0.19	0.245	0.331
	FR1 n48	40M	QPSK	100	0	DFT-30	Left Side	10mm	Ant 12	DSI 4	641666	3624.99	1	16.89	18.20	1.352	-	-	-0.18	0.312	0.422
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 10	DSI 4	633332	3499.98	1	17.78	18.70	1.236	-	-	-0.08	0.162	0.200
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	633332	3499.98	1	17.78	18.70	1.236	-	-	0.11	0.169	0.209
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 10	DSI 4	633332	3499.98	1	17.78	18.70	1.236	-	-	-0.13	0.358	0.442
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 10	DSI 4	633332	3499.98	1	17.78	18.70	1.236	-	-	-0.11	0.063	0.078
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 10	DSI 4	633332	3499.98	1	17.75	18.70	1.245	-	-	-0.19	0.204	0.254
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 10	DSI 4	633332	3499.98	1	17.75	18.70	1.245	-	-	-0.12	0.214	0.266
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 10	DSI 4	633332	3499.98	1	17.75	18.70	1.245	-	-	0.08	0.359	0.447
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 10	DSI 4	633332	3499.98	1	17.75	18.70	1.245	-	-	0.09	0.079	0.098
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 10	DSI 4	656000	3840	1	17.48	18.70	1.324	-	-	-0.15	0.180	0.238
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	656000	3840	1	17.48	18.70	1.324	-	-	-0.04	0.247	0.327
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 10	DSI 4	656000	3840	1	17.48	18.70	1.324	-	-	0.11	0.336	0.445
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 10	DSI 4	656000	3840	1	17.48	18.70	1.324	-	-	-0.01	0.108	0.143
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 10	DSI 4	656000	3840	1	17.42	18.70	1.343	-	-	0.11	0.142	0.191
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 10	DSI 4	656000	3840	1	17.42	18.70	1.343	-	-	-0.12	0.211	0.283
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 10	DSI 4	656000	3840	1	17.42	18.70	1.343	-	-	0.05	0.329	0.442
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 10	DSI 4	656000	3840	1	17.42	18.70	1.343	-	-	-0.11	0.092	0.124
	FR1 n77	100M	QPSK	270	0	DFT-30	Right Side	10mm	Ant 10	DSI 4	656000	3840	1	17.42	18.70	1.343	-	-	-0.09	0.431	0.579
	FR1 n77C	100M	QPSK	135	138	DFT-30	Right Side	10mm	Ant 10	DSI 4	650000+ 656664	3750+ 3849.96	1	17.28	18.70	1.387	-	-	-0.16	0.411	0.570
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 13	DSI 4	633332	3499.98	1	17.04	18.10	1.276	-	-	0.13	0.145	0.185
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 13	DSI 4	633332	3499.98	1	17.04	18.10	1.276	-	-	0.15	0.237	0.303
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 13	DSI 4	633332	3499.98	1	17.04	18.10	1.276	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 13	DSI 4	633332	3499.98	1	17.04	18.10	1.276	-	-	-0.12	0.483	0.617
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 13	DSI 4	633332	3499.98	1	17.02	18.10	1.282	-	-	0.1	0.153	0.196
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 13	DSI 4	633332	3499.98	1	17.02	18.10	1.282	-	-	-0.13	0.221	0.283
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 13	DSI 4	633332	3499.98	1	17.02	18.10	1.282	-	-	0.08	0.024	0.031
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 13	DSI 4	633332	3499.98	1	17.02	18.10	1.282	-	-	0.13	0.470	0.603
	FR1 n77	100M	QPSK	270	0	DFT-30	Top Side	10mm	Ant 13	DSI 4	633332	3499.98	1	16.92	18.10	1.312	-	-	-0.11	0.464	0.609
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 13	DSI 4	656000	3840	1	16.97	18.10	1.297	-	-	0.1	0.045	0.058
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 13	DSI 4	656000	3840	1	16.97	18.10	1.297	-	-	-0.05	0.080	0.104
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 13	DSI 4	656000	3840	1	16.97	18.10	1.297	-	-	-0.1	0.036	0.047
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 13	DSI 4	656000	3840	1	16.97	18.10	1.297	-	-	-0.12	0.158	0.205
	FR1 n77C	100M	QPSK	135	138	DFT-30	Top Side	10mm	Ant 13	DSI 4	650000+ 656664	3750+ 3849.96	1	17.38	18.10	1.180	-	-	0.08	0.142	0.168
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 13	DSI 4	656000	3840	1	16.93	18.10	1.309	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 13	DSI 4	656000	3840	1	16.93	18.10	1.309	-	-	-0.03	0.047	0.062
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 13	DSI 4	656000	3840	1	16.93	18.10	1.309	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 13	DSI 4	656000	3840	1	16.93	18.10	1.309	-	-	0.06	0.096	0.126
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	633332	3499.98	1	21.76	22.60	1.213	-	-	0.06	0.302	0.366
72	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	633332	3499.98	1	21.76	22.60	1.213	-	-	-0.18	0.738	0.895
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	633332	3499.98	1	21.76	22.60	1.213	-	-	0.04	0.374	0.454
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	633332	3499.98	1	21.76	22.60	1.213	-	-	0.14	0.479	0.581
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	633332	3499.98	1	21.70	22.60	1.230	-	-	0.1	0.251	0.309
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	633332	3499.98	1	21.70	22.60	1.230	-	-	0.04	0.724	0.891
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	633332	3499.98	1	21.70	22.60	1.230	-	-	0.06	0.327	0.402
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	633332	3499.98	1	21.70	22.60	1.230	-	-	0.15	0.414	0.509
	FR1 n77	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 4	DSI 4	633332	3499.98	1	21.29	22.60	1.352	-	-	-0.04	0.656	0.887
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	1	21.63	22.60	1.250	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	1	21.63	22.60	1.250	-	-	0.14	0.168	0.210
	FR1 n77C	100M	QPSK	135	138	DFT-30	Back	10mm	Ant 4	DSI 4	652668+ 659332	3790.02+ 3889.98	1	21.83	22.60	1.194	-	-	0.04	0.145	0.173
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	650000	3750	1	21.63	22.60	1.250	-	-	0.17	0.055	0.069
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	650000	3750	1	21.63	22.60	1.250	-	-	-0.12	0.061	0.076
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	1	21.57	22.60	1.268	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	1	21.57	22.60	1.268	-	-	0.04	0.166	0.210
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	650000	3750	1	21.57	22.60	1.268	-	-	0.05	0.048	0.061



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	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	650000	3750	1	21.57	22.60	1.268	-	-	-0.01	0.047	0.060
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 12	DSI 4	633332	3499.98	1	18.00	18.90	1.230	-	-	0.01	0.229	0.282
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	1	18.00	18.90	1.230	-	-	-0.08	0.367	0.452
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 12	DSI 4	633332	3499.98	1	18.00	18.90	1.230	-	-	0.09	0.406	0.499
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 12	DSI 4	633332	3499.98	1	18.00	18.90	1.230	-	-	-0.07	0.158	0.194
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 12	DSI 4	633332	3499.98	1	17.97	18.90	1.239	-	-	0.18	0.228	0.282
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	1	17.97	18.90	1.239	-	-	0.15	0.359	0.445
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 12	DSI 4	633332	3499.98	1	17.97	18.90	1.239	-	-	0.15	0.453	0.561
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 12	DSI 4	633332	3499.98	1	17.97	18.90	1.239	-	-	0.08	0.159	0.197
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 12	DSI 4	656000	3840	1	17.72	18.90	1.312	-	-	0.13	0.117	0.154
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	656000	3840	1	17.72	18.90	1.312	-	-	0.07	0.232	0.304
	FR1 n77C	100M	QPSK	135	138	DFT-30	Back	10mm	Ant 12	DSI 4	650000+ 656664	3750+ 3849.96	1	18.28	18.90	1.153	-	-	0.18	0.214	0.247
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 12	DSI 4	656000	3840	1	17.72	18.90	1.312	-	-	0.03	0.184	0.241
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 12	DSI 4	656000	3840	1	17.72	18.90	1.312	-	-	-0.13	0.077	0.101
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 12	DSI 4	656000	3840	1	17.71	18.90	1.315	-	-	0.1	0.103	0.135
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 12	DSI 4	656000	3840	1	17.71	18.90	1.315	-	-	0.06	0.207	0.272
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 12	DSI 4	656000	3840	1	17.71	18.90	1.315	-	-	-0.12	0.133	0.175
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 12	DSI 4	656000	3840	1	17.71	18.90	1.315	-	-	0.15	0.058	0.076
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 10	DSI 4	633332	3499.98	1	18.14	19.20	1.276	-	-	0.13	0.201	0.257
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	633332	3499.98	1	18.14	19.20	1.276	-	-	-0.08	0.250	0.319
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 10	DSI 4	633332	3499.98	1	18.14	19.20	1.276	-	-	-0.07	0.391	0.499
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 10	DSI 4	633332	3499.98	1	18.14	19.20	1.276	-	-	-0.18	0.089	0.114
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 10	DSI 4	633332	3499.98	1	18.09	19.20	1.291	-	-	0.09	0.229	0.296
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 10	DSI 4	633332	3499.98	1	18.09	19.20	1.291	-	-	-0.19	0.277	0.358
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 10	DSI 4	633332	3499.98	1	18.09	19.20	1.291	-	-	-0.14	0.450	0.581
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 10	DSI 4	633332	3499.98	1	18.09	19.20	1.291	-	-	-0.14	0.097	0.125
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 10	DSI 4	650000	3750	1	18.11	19.20	1.285	-	-	-0.17	0.241	0.310
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	650000	3750	1	18.11	19.20	1.285	-	-	0.07	0.323	0.415
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 10	DSI 4	650000	3750	1	18.11	19.20	1.285	-	-	-0.14	0.560	0.720
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 10	DSI 4	650000	3750	1	18.11	19.20	1.285	-	-	0.07	0.122	0.157
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 10	DSI 4	650000	3750	1	18.08	19.20	1.294	-	-	0.17	0.187	0.242
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 10	DSI 4	650000	3750	1	18.08	19.20	1.294	-	-	-0.09	0.282	0.365
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 10	DSI 4	650000	3750	1	18.08	19.20	1.294	-	-	-0.1	0.444	0.575
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 10	DSI 4	650000	3750	1	18.08	19.20	1.294	-	-	0.05	0.114	0.148
	FR1 n78	100M	QPSK	270	0	DFT-30	Right Side	10mm	Ant 10	DSI 4	650000	3750	1	18.00	19.20	1.318	-	-	0.18	0.477	0.629
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 13	DSI 4	633332	3499.98	1	17.21	18.60	1.377	-	-	-0.15	0.187	0.258
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 13	DSI 4	633332	3499.98	1	17.21	18.60	1.377	-	-	0.17	0.331	0.456
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 13	DSI 4	633332	3499.98	1	17.21	18.60	1.377	-	-	0.04	0.022	0.030
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 13	DSI 4	633332	3499.98	1	17.21	18.60	1.377	-	-	0	0.565	0.778
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 13	DSI 4	633332	3499.98	1	17.15	18.60	1.396	-	-	-0.13	0.177	0.247
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 13	DSI 4	633332	3499.98	1	17.15	18.60	1.396	-	-	0.19	0.284	0.397
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 13	DSI 4	633332	3499.98	1	17.15	18.60	1.396	-	-	0.19	0.017	0.024
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 13	DSI 4	633332	3499.98	1	17.15	18.60	1.396	-	-	0.02	0.534	0.746
	FR1 n78	100M	QPSK	270	0	DFT-30	Top Side	10mm	Ant 13	DSI 4	633332	3499.98	1	17.13	18.60	1.403	-	-	-0.09	0.560	0.786
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 13	DSI 4	650000	3750	1	17.20	18.60	1.380	-	-	0.09	0.102	0.141
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 13	DSI 4	650000	3750	1	17.20	18.60	1.380	-	-	-0.13	0.162	0.224
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 13	DSI 4	650000	3750	1	17.20	18.60	1.380	-	-	0.11	0.050	0.069
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 13	DSI 4	650000	3750	1	17.20	18.60	1.380	-	-	0.1	0.340	0.469
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 13	DSI 4	650000	3750	1	17.13	18.60	1.403	-	-	0.1	0.080	0.112
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 13	DSI 4	650000	3750	1	17.13	18.60	1.403	-	-	0.12	0.129	0.181
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 13	DSI 4	650000	3750	1	17.13	18.60	1.403	-	-	0.17	0.052	0.073
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 13	DSI 4	650000	3750	1	17.13	18.60	1.403	-	-	0.17	0.258	0.362
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	633332	3499.98	1	19.52	20.20	1.169	-	-	-0.1	0.113	0.132
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	633332	3499.98	1	19.52	20.20	1.169	-	-	0.1	0.409	0.478
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	633332	3499.98	1	19.52	20.20	1.169	-	-	0.15	0.135	0.158
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	633332	3499.98	1	19.52	20.20	1.169	-	-	0.03	0.129	0.151



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	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	633332	3499.98	1	19.51	20.20	1.172	-	-	0.04	0.090	0.105
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	633332	3499.98	1	19.51	20.20	1.172	-	-	0.1	0.390	0.457
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	633332	3499.98	1	19.51	20.20	1.172	-	-	-0.15	0.119	0.139
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	633332	3499.98	1	19.51	20.20	1.172	-	-	-0.14	0.140	0.164
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	1	19.27	20.20	1.239	-	-	-	n/a	n/a
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	1	19.27	20.20	1.239	-	-	0.11	0.109	0.135
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	650000	3750	1	19.27	20.20	1.239	-	-	0.13	0.032	0.040
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	650000	3750	1	19.27	20.20	1.239	-	-	-0.14	0.032	0.040
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	1	19.21	20.20	1.256	-	-	-	n/a	n/a
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	1	19.21	20.20	1.256	-	-	-0.1	0.076	0.095
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	650000	3750	1	19.21	20.20	1.256	-	-	-0.17	0.026	0.033
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	650000	3750	1	19.21	20.20	1.256	-	-	0.16	0.024	0.030
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 12	DSI 4	633332	3499.98	1	20.88	21.60	1.180	-	-	-0.19	0.457	0.539
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	1	20.88	21.60	1.180	-	-	0.04	0.764	0.902
73	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 12	DSI 4	633332	3499.98	1	20.88	21.60	1.180	-	-	0.06	0.893	1.054
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 12	DSI 4	633332	3499.98	2	20.88	21.60	1.180	-	-	0.09	0.842	0.994
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 12	DSI 4	633332	3499.98	1	20.88	21.60	1.180	-	-	0.18	0.323	0.381
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 12	DSI 4	633332	3499.98	1	20.83	21.60	1.194	-	-	0.07	0.428	0.511
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	1	20.83	21.60	1.194	-	-	-0.14	0.710	0.848
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 12	DSI 4	633332	3499.98	1	20.83	21.60	1.194	-	-	-0.14	0.875	1.045
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 12	DSI 4	633332	3499.98	1	20.83	21.60	1.194	-	-	0.04	0.323	0.386
	FR1 n78	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	1	20.85	21.60	1.189	-	-	0.04	0.619	0.736
	FR1 n78	100M	QPSK	270	0	DFT-30	Left Side	10mm	Ant 12	DSI 4	633332	3499.98	1	20.85	21.60	1.189	-	-	-0.02	0.732	0.870
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 12	DSI 4	650000	3750	1	20.68	21.60	1.236	-	-	0.03	0.330	0.408
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	650000	3750	1	20.68	21.60	1.236	-	-	0	0.549	0.679
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 12	DSI 4	650000	3750	1	20.68	21.60	1.236	-	-	0.19	0.570	0.704
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 12	DSI 4	650000	3750	1	20.68	21.60	1.236	-	-	0.01	0.221	0.273
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 12	DSI 4	650000	3750	1	20.61	21.60	1.256	-	-	0.18	0.279	0.350
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 12	DSI 4	650000	3750	1	20.61	21.60	1.256	-	-	0.01	0.553	0.695
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 12	DSI 4	650000	3750	1	20.61	21.60	1.256	-	-	-0.18	0.521	0.654
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 12	DSI 4	650000	3750	1	20.61	21.60	1.256	-	-	-0.13	0.189	0.237
	FR1 n78	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 12	DSI 4	650000	3750	1	20.52	21.60	1.282	-	-	0.07	0.438	0.562
	FR1 n78	100M	QPSK	270	0	DFT-30	Left Side	10mm	Ant 12	DSI 4	650000	3750	1	20.52	21.60	1.282	-	-	0.05	0.431	0.553

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dAm)	Tune-Up Limit (dAm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dA)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																	
	Bluetooth	DH5 1Mbps	Front	10mm	Ant 11	Standalone	39	2441	1	18.72	20.00	1.343	77.07	1.298	0.08	0.167	0.291
	Bluetooth	DH5 1Mbps	Back	10mm	Ant 11	Standalone	39	2441	1	18.72	20.00	1.343	77.07	1.298	0.03	0.180	0.314
	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 11	Standalone	39	2441	1	18.72	20.00	1.343	77.07	1.298	-0.03	0.099	0.173
	Bluetooth	DH5 1Mbps	Top Side	10mm	Ant 11	Standalone	39	2441	1	18.72	20.00	1.343	77.07	1.298	-0.06	0.382	0.666
	Bluetooth	DH5 1Mbps	Front	10mm	Ant 7	Standalone	78	2480	1	18.87	20.00	1.297	77.07	1.298	-0.16	0.216	0.364
	Bluetooth	DH5 1Mbps	Back	10mm	Ant 7	Standalone	78	2480	1	18.87	20.00	1.297	77.07	1.298	-0.15	0.260	0.438
	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 7	Standalone	78	2480	1	18.87	20.00	1.297	77.07	1.298	0	0.482	0.812
	Bluetooth	DH5 1Mbps	Top Side	10mm	Ant 7	Standalone	78	2480	1	18.87	20.00	1.297	77.07	1.298	-0.12	0.098	0.165
	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 7	Standalone	0	2402	1	18.42	20.00	1.439	77.07	1.298	-0.02	0.352	0.657
74	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 7	Standalone	39	2441	1	18.12	20.00	1.542	77.07	1.298	-0.05	0.411	0.822
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 11	Standalone	1	2412	1	20.56	22.00	1.393	99.84	1.002	0.18	0.253	0.353
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 11	Standalone	1	2412	1	20.56	22.00	1.393	99.84	1.002	0.18	0.261	0.364
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 11	Standalone	1	2412	1	20.56	22.00	1.393	99.84	1.002	-0.12	0.121	0.169
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 11	Standalone	1	2412	1	20.56	22.00	1.393	99.84	1.002	-0.12	0.589	0.822
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 11	Standalone	6	2437	1	20.46	22.00	1.426	99.84	1.002	0.03	0.644	0.920
75	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 11	Standalone	11	2462	1	20.25	22.00	1.496	99.84	1.002	0.1	0.760	1.139
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 7	Standalone	1	2412	1	20.29	21.50	1.321	99.92	1.001	-0.16	0.291	0.385
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 7	Standalone	1	2412	1	20.29	21.50	1.321	99.92	1.001	-0.07	0.389	0.514



FCC SAR Test Report

Report No. : FA561202

	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 7	Standalone	1	2412	1	20.29	21.50	1.321	99.92	1.001	-0.09	0.626	0.828
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7	Standalone	1	2412	1	20.29	21.50	1.321	99.92	1.001	0.01	0.012	0.016
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 7	Standalone	2	2417	1	17.63	19.00	1.371	99.92	1.001	0.09	0.413	0.567
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 7	Standalone	6	2437	1	16.20	17.50	1.349	99.92	1.001	0.09	0.376	0.508
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 7	Standalone	11	2462	1	17.60	19.00	1.380	99.92	1.001	-0.06	0.388	0.536
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 11+7	Standalone	1	2412	1	21.73	23.20	1.403	99.92	1.001	0.16	0.249	0.350
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 11+7	Standalone	1	2412	1	21.73	23.20	1.403	99.92	1.001	-0.14	0.288	0.404
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 11+7	Standalone	1	2412	1	21.73	23.20	1.403	99.92	1.001	-0.03	0.587	0.824
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 11+7	Standalone	1	2412	1	21.73	23.20	1.403	99.92	1.001	0.03	0.330	0.463
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 11+7	Standalone	6	2437	1	21.68	23.20	1.419	99.92	1.001	-0.08	0.525	0.746
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 11+7	Standalone	11	2462	1	21.63	23.20	1.435	99.92	1.001	-0.05	0.520	0.747

5000MHz

	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 15	Standalone	42	5210	1	14.87	16.50	1.455	100	1.000	-0.09	0.129	0.188
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 15	Standalone	42	5210	1	14.87	16.50	1.455	100	1.000	0.14	0.119	0.173
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 15	Standalone	42	5210	1	14.87	16.50	1.455	100	1.000	-0.17	0.051	0.074
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 15	Standalone	42	5210	1	14.87	16.50	1.455	100	1.000	0.11	0.375	0.546
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 10	Standalone	42	5210	1	17.31	19.00	1.476	100	1.000	0.15	0.260	0.384
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 10	Standalone	42	5210	1	17.31	19.00	1.476	100	1.000	-0.05	0.395	0.583
76	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 10	Standalone	42	5210	1	17.31	19.00	1.476	100	1.000	0.19	0.531	0.784
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 10	Standalone	42	5210	1	17.31	19.00	1.476	100	1.000	0.13	0.136	0.201
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10mm	Ant 15+10	Standalone	38	5190	1	18.23	20.00	1.505	100	1.000	0.01	0.164	0.247
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant 15+10	Standalone	38	5190	1	18.23	20.00	1.505	100	1.000	0.1	0.176	0.265
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 15+10	Standalone	38	5190	1	18.23	20.00	1.505	100	1.000	0.16	0.235	0.354
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 15+10	Standalone	38	5190	1	18.23	20.00	1.505	100	1.000	0.03	0.349	0.525
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 15	Standalone	155	5775	1	17.68	19.50	1.521	100	1.000	0.02	0.154	0.234
77	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 15	Standalone	155	5775	1	17.68	19.50	1.521	100	1.000	-0.19	0.573	0.871
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 15	Standalone	155	5775	2	17.68	19.50	1.521	100	1.000	-0.13	0.555	0.844
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 15	Standalone	155	5775	1	17.68	19.50	1.521	100	1.000	0.01	0.201	0.306
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 15	Standalone	155	5775	1	17.68	19.50	1.521	100	1.000	0.02	0.556	0.845
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 10	Standalone	155	5775	1	16.82	18.50	1.472	100	1.000	-0.02	0.112	0.165
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 10	Standalone	155	5775	1	16.82	18.50	1.472	100	1.000	-0.09	0.221	0.325
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 10	Standalone	155	5775	1	16.82	18.50	1.472	100	1.000	0.17	0.156	0.230
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 10	Standalone	155	5775	1	16.82	18.50	1.472	100	1.000	-0.05	0.048	0.071
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 15+10	Standalone	155	5775	1	19.55	21.10	1.429	100	1.000	0.08	0.144	0.206
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 15+10	Standalone	155	5775	1	19.55	21.10	1.429	100	1.000	0.13	0.485	0.693
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 15+10	Standalone	155	5775	1	19.55	21.10	1.429	100	1.000	0.05	0.249	0.356
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 15+10	Standalone	155	5775	1	19.55	21.10	1.429	100	1.000	0.06	0.418	0.597

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
6000MHz																		
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 15+10	Standalone	207	6985	1	7.99	8.50	1.124	99.63	1.004	0.05	0.019	0.021	0.159
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 15+10	Standalone	207	6985	1	7.99	8.50	1.124	99.63	1.004	-0.11	0.021	0.024	0.181
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	10mm	Ant 15+10	Standalone	207	6985	1	7.99	8.50	1.124	99.63	1.004	0.09	0.015	0.017	0.142
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	10mm	Ant 15+10	Standalone	207	6985	1	7.99	8.50	1.124	99.63	1.004	-0.01	0.014	0.016	0.135
78	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	31	6105	1	7.14	8.00	1.219	99.63	1.004	0.05	0.031	0.038	0.259
	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	31	6105	2	7.14	8.00	1.219	99.63	1.004	-0.09	0.022	0.027	0.214
	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	63	6265	1	7.38	8.00	1.153	99.63	1.004	-0.05	0.023	0.027	0.194
	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	127	6585	1	7.72	8.00	1.066	99.63	1.004	0.03	0.025	0.027	0.211
	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	159	6745	1	7.55	8.00	1.109	99.63	1.004	0.01	0.019	0.021	0.183



15.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	133297	680.5	1	23.72	23.80	1.019	-	-	0.02	0.117	0.119
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	133297	680.5	1	23.72	23.80	1.019	-	-	0.13	0.128	0.130
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	133297	680.5	1	22.43	22.80	1.089	-	-	0.05	0.093	0.101
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	133297	680.5	1	22.43	22.80	1.089	-	-	-0.11	0.100	0.109
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	133297	680.5	1	22.74	23.30	1.138	-	-	0.18	0.320	0.364
79	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	133297	680.5	1	22.74	23.30	1.138	-	-	0.04	0.365	0.415
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	133297	680.5	1	21.74	22.30	1.138	-	-	0.15	0.239	0.272
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	133297	680.5	1	21.74	22.30	1.138	-	-	0	0.250	0.284
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	23095	707.5	1	23.14	23.80	1.164	-	-	-0.18	0.157	0.183
80	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	23095	707.5	1	23.14	23.80	1.164	-	-	-0.12	0.199	0.232
	LTE Band 12B	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	23048+23120	702.8+710	1	23.07	23.80	1.183	-	-	0.07	0.145	0.172
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 4	23095	707.5	1	22.24	22.80	1.138	-	-	0.18	0.131	0.149
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 4	23095	707.5	1	22.24	22.80	1.138	-	-	0.17	0.146	0.166
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	23095	707.5	1	22.50	23.30	1.202	-	-	-0.01	0.177	0.213
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	23095	707.5	1	22.50	23.30	1.202	-	-	0.18	0.180	0.216
	LTE Band 12B	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	23048+23120	702.8+710	1	22.49	23.30	1.205	-	-	0.03	0.136	0.164
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 4	23095	707.5	1	21.49	22.30	1.205	-	-	-0.17	0.138	0.166
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 4	23095	707.5	1	21.49	22.30	1.205	-	-	-0.19	0.140	0.169
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	23230	782	1	24.25	25.00	1.189	-	-	0.14	0.123	0.146
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	23230	782	1	24.25	25.00	1.189	-	-	0.18	0.175	0.208
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 4	23230	782	1	23.22	24.00	1.197	-	-	0.1	0.098	0.117
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 4	23230	782	1	23.22	24.00	1.197	-	-	0.11	0.131	0.157
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	23230	782	1	23.64	24.30	1.164	-	-	-0.16	0.250	0.291
81	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	23230	782	1	23.64	24.30	1.164	-	-	-0.06	0.287	0.334
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 4	23230	782	1	22.61	23.30	1.172	-	-	-0.05	0.194	0.227
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 4	23230	782	1	22.61	23.30	1.172	-	-	-0.14	0.202	0.237
	FR1 n71	35M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	136100	680.5	1	23.65	23.80	1.035	-	-	-0.14	0.122	0.126
	FR1 n71	35M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	136100	680.5	1	23.65	23.80	1.035	-	-	-0.19	0.137	0.142
	FR1 n71	35M	QPSK	90	45	DFT-15	Front	10mm	Ant 1	DSI 4	136100	680.5	1	23.51	23.80	1.069	-	-	0.07	0.106	0.113
	FR1 n71	35M	QPSK	90	45	DFT-15	Back	10mm	Ant 1	DSI 4	136100	680.5	1	23.51	23.80	1.069	-	-	-0.18	0.119	0.127
	FR1 n71	35M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	136100	680.5	1	22.97	23.30	1.079	-	-	0.04	0.338	0.365
82	FR1 n71	35M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	136100	680.5	1	22.97	23.30	1.079	-	-	0.02	0.427	0.461
	FR1 n71	35M	QPSK	90	45	DFT-15	Front	10mm	Ant 0	DSI 4	136100	680.5	1	22.88	23.30	1.102	-	-	-0.07	0.249	0.274
	FR1 n71	35M	QPSK	90	45	DFT-15	Back	10mm	Ant 0	DSI 4	136100	680.5	1	22.88	23.30	1.102	-	-	0.11	0.271	0.299
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	141500	707.5	1	23.56	23.80	1.057	-	-	0.16	0.174	0.184
83	FR1 n12	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	141500	707.5	1	23.56	23.80	1.057	-	-	0.11	0.215	0.227
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	10mm	Ant 1	DSI 4	141500	707.5	1	23.45	23.80	1.084	-	-	-0.12	0.156	0.169
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 1	DSI 4	141500	707.5	1	23.45	23.80	1.084	-	-	0.15	0.189	0.205
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	141500	707.5	1	22.91	23.30	1.094	-	-	-0.15	0.172	0.188
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	141500	707.5	1	22.91	23.30	1.094	-	-	-0.16	0.174	0.190
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	10mm	Ant 0	DSI 4	141500	707.5	1	22.73	23.30	1.140	-	-	-0.05	0.143	0.163
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 0	DSI 4	141500	707.5	1	22.73	23.30	1.140	-	-	-0.09	0.142	0.162
	FR1 n13	10M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	156400	782	1	24.01	25.00	1.256	-	-	-0.19	0.110	0.138
	FR1 n13	10M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	156400	782	1	24.01	25.00	1.256	-	-	0.05	0.149	0.187
	FR1 n13	10M	QPSK	25	14	DFT-15	Front	10mm	Ant 1	DSI 4	156400	782	1	23.83	25.00	1.309	-	-	-0.03	0.112	0.147
	FR1 n13	10M	QPSK	25	14	DFT-15	Back	10mm	Ant 1	DSI 4	156400	782	1	23.83	25.00	1.309	-	-	-0.12	0.146	0.191
	FR1 n13	10M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	156400	782	1	23.83	24.50	1.167	-	-	-0.15	0.222	0.259
84	FR1 n13	10M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	156400	782	1	23.83	24.50	1.167	-	-	-0.02	0.280	0.327
	FR1 n13	10M	QPSK	25	14	DFT-15	Front	10mm	Ant 0	DSI 4	156400	782	1	23.69	24.50	1.205	-	-	0.03	0.211	0.254



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	FR1 n13	10M	QPSK	25	14	DFT-15	Back	10mm	Ant 0	DSI 4	156400	782	1	23.69	24.50	1.205	-	-	0.01	0.215	0.259
835MHz																					
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 1	DSI 4	189	836.4	1	25.90	27.50	1.445	-	-	0.02	0.307	0.444
85	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 1	DSI 4	189	836.4	1	25.90	27.50	1.445	-	-	0.01	0.333	0.481
	GSM850	-	-	-	-	DTM Multi-slot class 9	Back	10mm	Ant 1	DSI 4	189	836.4	1	22.87	23.98	1.291	-	-	0.01	0.304	0.393
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 4	4182	836.4	1	23.49	24.80	1.352	-	-	0.08	0.367	0.496
86	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 4	4233	846.6	1	23.33	24.80	1.403	-	-	0.19	0.496	0.696
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 4	4233	846.6	2	23.33	24.80	1.403	-	-	0.01	0.285	0.400
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 4	4182	836.4	1	24.27	24.80	1.130	-	-	0.17	0.319	0.360
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 4	4182	836.4	1	24.27	24.80	1.130	-	-	0.19	0.413	0.467
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	20525	836.5	1	24.33	25.00	1.167	-	-	-0.07	0.315	0.368
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	20525	836.5	1	24.33	25.00	1.167	-	-	-0.02	0.435	0.508
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 4	20525	836.5	1	23.30	24.00	1.175	-	-	-0.19	0.261	0.307
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 4	20525	836.5	1	23.30	24.00	1.175	-	-	-0.02	0.328	0.385
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	20525	836.5	1	23.71	24.30	1.146	-	-	-0.03	0.348	0.399
87	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	20525	836.5	1	23.71	24.30	1.146	-	-	-0.01	0.446	0.511
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 4	20525	836.5	1	22.66	23.30	1.159	-	-	-0.12	0.296	0.343
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 4	20525	836.5	1	22.66	23.30	1.159	-	-	0	0.314	0.364
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	26865	831.5	1	23.78	24.50	1.180	-	-	0.08	0.287	0.339
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	26865	831.5	1	23.78	24.50	1.180	-	-	0.01	0.369	0.436
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	26765	821.5	1	23.72	24.50	1.197	-	-	-0.11	0.338	0.404
88	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	26965	841.5	1	23.72	24.50	1.197	-	-	0.06	0.452	0.541
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	DSI 4	26865	831.5	1	23.36	24.00	1.159	-	-	-0.12	0.244	0.283
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	DSI 4	26865	831.5	1	23.36	24.00	1.159	-	-	0.18	0.316	0.366
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	26865	831.5	1	23.77	24.30	1.130	-	-	-0.11	0.311	0.351
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	26865	831.5	1	23.77	24.30	1.130	-	-	-0.06	0.392	0.443
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	26765	821.5	1	23.71	24.30	1.146	-	-	-0.01	0.261	0.299
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	26965	841.5	1	23.73	24.30	1.140	-	-	0.03	0.395	0.450
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 0	DSI 4	26865	831.5	1	22.71	23.30	1.146	-	-	-0.15	0.268	0.307
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	DSI 4	26865	831.5	1	22.71	23.30	1.146	-	-	0.06	0.276	0.316
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	167300	836.5	1	24.11	25.00	1.227	-	-	-0.13	0.283	0.347
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	167300	836.5	1	24.11	25.00	1.227	-	-	-0.04	0.347	0.426
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 1	DSI 4	167300	836.5	1	24.04	25.00	1.247	-	-	-0.03	0.306	0.382
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 1	DSI 4	167300	836.5	1	24.04	25.00	1.247	-	-	-0.01	0.379	0.473
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	167300	836.5	1	23.87	24.50	1.156	-	-	-0.18	0.337	0.390
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	167300	836.5	1	23.87	24.50	1.156	-	-	-0.18	0.375	0.434
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 0	DSI 4	167300	836.5	1	23.73	24.50	1.194	-	-	-0.02	0.391	0.467
89	FR1 n5	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 4	167300	836.5	1	23.73	24.50	1.194	-	-	-0.11	0.481	0.574
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	166300	831.5	1	24.12	25.00	1.225	-	-	0.06	0.263	0.322
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	166300	831.5	1	24.12	25.00	1.225	-	-	0.07	0.340	0.416
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 1	DSI 4	166300	831.5	1	24.09	25.00	1.233	-	-	0.06	0.289	0.356
90	FR1 n26	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 1	DSI 4	166300	831.5	1	24.09	25.00	1.233	-	-	-0.14	0.378	0.466
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	166300	831.5	1	23.83	24.50	1.167	-	-	-0.09	0.314	0.366
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	166300	831.5	1	23.83	24.50	1.167	-	-	0.01	0.322	0.376
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 0	DSI 4	166300	831.5	1	23.65	24.50	1.216	-	-	-0.03	0.356	0.433
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 4	166300	831.5	1	23.65	24.50	1.216	-	-	-0.12	0.372	0.452
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 7	DSI 4	1513	1752.6	1	21.59	22.90	1.352	-	-	0.07	0.380	0.514
91	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 7	DSI 4	1513	1752.6	1	21.59	22.90	1.352	-	-	0.18	0.463	0.626
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 6	DSI 4	1413	1732.6	1	20.27	20.60	1.079	-	-	-0.07	0.214	0.231
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 6	DSI 4	1413	1732.6	1	20.27	20.60	1.079	-	-	-0.08	0.292	0.315
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 4	20175	1732.5	1	20.55	21.00	1.109	-	-	-0.12	0.173	0.192
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	20175	1732.5	1	20.55	21.00	1.109	-	-	-0.04	0.359	0.398
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 4	20175	1732.5	1	20.50	21.00	1.122	-	-	-0.17	0.179	0.201
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 4	20175	1732.5	1	20.50	21.00	1.122	-	-	-0.19	0.266	0.298



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	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 7	DSI 4	20175	1732.5	1	21.67	22.50	1.211	-	-	-0.18	0.328	0.397
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	20175	1732.5	1	21.67	22.50	1.211	-	-	0.02	0.342	0.414
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 7	DSI 4	20175	1732.5	1	21.63	22.50	1.222	-	-	0.11	0.355	0.434
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	20175	1732.5	1	21.63	22.50	1.222	-	-	0.09	0.379	0.463
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 4	20175	1732.5	1	21.69	22.20	1.125	-	-	-0.16	0.306	0.344
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	20175	1732.5	1	21.69	22.20	1.125	-	-	-0.17	0.401	0.451
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 4	20175	1732.5	1	21.60	22.20	1.148	-	-	0.17	0.312	0.358
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 4	20175	1732.5	1	21.60	22.20	1.148	-	-	-0.14	0.387	0.444
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	20175	1732.5	1	20.44	21.20	1.191	-	-	0.03	0.396	0.472
92	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	20175	1732.5	1	20.44	21.20	1.191	-	-	0.16	0.567	0.675
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	20175	1732.5	2	20.44	21.20	1.191	-	-	0.06	0.554	0.660
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	20175	1732.5	1	20.43	21.20	1.194	-	-	-0.08	0.404	0.482
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	20175	1732.5	1	20.43	21.20	1.194	-	-	0.03	0.561	0.670
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 4	132322	1745	1	20.82	21.00	1.042	-	-	0.08	0.185	0.193
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	132322	1745	1	20.82	21.00	1.042	-	-	0.09	0.268	0.279
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 4	132322	1745	1	20.81	21.00	1.045	-	-	-0.09	0.198	0.207
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 4	132322	1745	1	20.81	21.00	1.045	-	-	-0.11	0.288	0.301
	LTE Band 66C	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	132322+132520	1745+1764.8	1	20.53	21.00	1.114	-	-	0.02	0.257	0.286
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 7	DSI 4	132322	1745	1	21.07	21.50	1.104	-	-	-0.08	0.316	0.349
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	132322	1745	1	21.07	21.50	1.104	-	-	0.07	0.358	0.395
	LTE Band 66C	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	132322+132520	1745+1764.8	1	20.85	21.50	1.161	-	-	0.03	0.315	0.366
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 7	DSI 4	132322	1745	1	21.03	21.50	1.114	-	-	0	0.328	0.365
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	132322	1745	1	21.03	21.50	1.114	-	-	0.11	0.350	0.390
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 4	132322	1745	1	22.05	22.60	1.135	-	-	0.15	0.327	0.371
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	132322	1745	1	22.05	22.60	1.135	-	-	-0.1	0.436	0.495
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 4	132322	1745	1	22.04	22.60	1.138	-	-	0.18	0.325	0.370
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 4	132322	1745	1	22.04	22.60	1.138	-	-	0	0.455	0.518
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	132322	1745	1	20.38	20.90	1.127	-	-	-0.14	0.357	0.402
93	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	132322	1745	1	20.38	20.90	1.127	-	-	-0.05	0.533	0.601
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	132322	1745	1	20.37	20.90	1.130	-	-	-0.01	0.348	0.393
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	132322	1745	1	20.37	20.90	1.130	-	-	-0.18	0.490	0.554
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	10mm	Ant 6	DSI 4	349000	1745	1	20.25	21.00	1.189	-	-	-0.05	0.165	0.196
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	10mm	Ant 6	DSI 4	349000	1745	1	20.25	21.00	1.189	-	-	0.06	0.248	0.295
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	10mm	Ant 6	DSI 4	349000	1745	1	20.15	21.00	1.216	-	-	0.14	0.159	0.193
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	10mm	Ant 6	DSI 4	349000	1745	1	20.15	21.00	1.216	-	-	0.15	0.231	0.281
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	10mm	Ant 7	DSI 4	349000	1745	1	20.97	21.80	1.211	-	-	0.12	0.291	0.352
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	10mm	Ant 7	DSI 4	349000	1745	1	20.97	21.80	1.211	-	-	-0.12	0.314	0.380
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	10mm	Ant 7	DSI 4	349000	1745	1	20.90	21.80	1.230	-	-	-0.16	0.305	0.375
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	10mm	Ant 7	DSI 4	349000	1745	1	20.90	21.80	1.230	-	-	-0.03	0.331	0.407
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	10mm	Ant 5	DSI 4	349000	1745	1	19.15	20.20	1.274	-	-	-0.07	0.172	0.219
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	10mm	Ant 5	DSI 4	349000	1745	1	19.15	20.20	1.274	-	-	-0.17	0.236	0.301
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	10mm	Ant 5	DSI 4	349000	1745	1	19.09	20.20	1.291	-	-	0.01	0.161	0.208
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	10mm	Ant 5	DSI 4	349000	1745	1	19.09	20.20	1.291	-	-	0.09	0.224	0.289
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	349000	1745	1	20.46	21.60	1.300	-	-	-0.03	0.371	0.482
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	349000	1745	1	20.46	21.60	1.300	-	-	0.06	0.469	0.610
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	10mm	Ant 0	DSI 4	349000	1745	1	20.44	21.60	1.306	-	-	0.08	0.329	0.430
94	FR1 n66	45M	QPSK	120	60	DFT-15	Back	10mm	Ant 0	DSI 4	349000	1745	1	20.44	21.60	1.306	-	-	-0.19	0.472	0.617
1900MHz																					
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 7	DSI 4	661	1880	1	23.95	25.00	1.274	-	-	0.04	0.168	0.214
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 7	DSI 4	661	1880	1	23.95	25.00	1.274	-	-	-0.14	0.301	0.383
	GSM1900	-	-	-	-	DTM Multi-slot class 11	Back	10mm	Ant 7	DSI 4	661	1880	1	20.63	21.74	1.291	-	-	0.06	0.225	0.291
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 6	DSI 4	661	1880	1	24.56	25.50	1.242	-	-	-0.11	0.240	0.298
95	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 6	DSI 4	661	1880	1	24.56	25.50	1.242	-	-	-0.18	0.383	0.476
	GSM1900	-	-	-	-	DTM Multi-slot class 11	Back	10mm	Ant 6	DSI 4	661	1880	1	21.11	22.24	1.297	-	-	-0.16	0.264	0.342
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 7	DSI 4	9400	1880	1	20.29	22.00	1.483	-	-	0	0.284	0.421



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96	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 7	DSI 4	9400	1880	1	20.29	22.00	1.483	-	-	-0.04	0.319	0.473
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 6	DSI 4	9400	1880	1	20.70	21.40	1.175	-	-	0.04	0.223	0.262
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 6	DSI 4	9400	1880	1	20.70	21.40	1.175	-	-	0.02	0.338	0.397
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 4	18900	1880	1	20.63	21.00	1.089	-	-	-0.04	0.254	0.277
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	18900	1880	1	20.63	21.00	1.089	-	-	-0.16	0.337	0.367
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 4	18900	1880	1	20.57	21.00	1.104	-	-	-0.09	0.248	0.274
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 4	18900	1880	1	20.57	21.00	1.104	-	-	0.1	0.333	0.368
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 7	DSI 4	18900	1880	1	20.56	21.10	1.132	-	-	0.15	0.281	0.318
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	18900	1880	1	20.56	21.10	1.132	-	-	-0.04	0.286	0.324
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 7	DSI 4	18900	1880	1	20.52	21.10	1.143	-	-	0.06	0.282	0.322
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	18900	1880	1	20.52	21.10	1.143	-	-	0.09	0.288	0.329
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 4	18900	1880	1	22.68	23.00	1.076	-	-	0.19	0.296	0.319
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	18900	1880	1	22.68	23.00	1.076	-	-	-0.18	0.434	0.467
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 4	18900	1880	1	22.64	23.00	1.086	-	-	-0.12	0.295	0.320
97	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 4	18900	1880	1	22.64	23.00	1.086	-	-	0.04	0.462	0.502
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	18900	1880	1	19.08	19.70	1.153	-	-	-0.03	0.172	0.198
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	18900	1880	1	19.08	19.70	1.153	-	-	-0.11	0.249	0.287
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	18900	1880	1	19.01	19.70	1.172	-	-	-0.11	0.172	0.202
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	18900	1880	1	19.01	19.70	1.172	-	-	0.19	0.254	0.298
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 4	26340	1880	1	21.46	21.60	1.033	-	-	-0.11	0.234	0.242
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	26340	1880	1	21.46	21.60	1.033	-	-	0.03	0.324	0.335
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 4	26340	1880	1	21.44	21.60	1.038	-	-	-0.1	0.233	0.242
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 4	26340	1880	1	21.44	21.60	1.038	-	-	0.02	0.317	0.329
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 7	DSI 4	26340	1880	1	20.13	20.80	1.167	-	-	0.09	0.268	0.313
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	26340	1880	1	20.13	20.80	1.167	-	-	0.05	0.270	0.315
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 7	DSI 4	26340	1880	1	20.08	20.80	1.180	-	-	0.01	0.269	0.318
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	26340	1880	1	20.08	20.80	1.180	-	-	0.14	0.271	0.320
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 4	26340	1880	1	22.25	23.00	1.189	-	-	-0.17	0.301	0.358
98	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	26340	1880	1	22.25	23.00	1.189	-	-	0.09	0.448	0.532
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 4	26340	1880	1	22.20	23.00	1.202	-	-	0.02	0.307	0.369
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 4	26340	1880	1	22.20	23.00	1.202	-	-	0.16	0.422	0.507
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	26340	1880	1	19.19	19.80	1.151	-	-	-0.08	0.190	0.219
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	26340	1880	1	19.19	19.80	1.151	-	-	0.19	0.276	0.318
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	26340	1880	1	19.13	19.80	1.167	-	-	0.14	0.198	0.231
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	26340	1880	1	19.13	19.80	1.167	-	-	0.03	0.281	0.328
	FR1 n2	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 6	DSI 4	376000	1880	1	20.61	20.90	1.069	-	-	-0.11	0.192	0.205
	FR1 n2	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 6	DSI 4	376000	1880	1	20.61	20.90	1.069	-	-	-0.06	0.270	0.289
	FR1 n2	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 6	DSI 4	376000	1880	1	20.56	20.90	1.081	-	-	-0.09	0.173	0.187
	FR1 n2	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 6	DSI 4	376000	1880	1	20.56	20.90	1.081	-	-	0.13	0.259	0.280
	FR1 n2	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 7	DSI 4	376000	1880	1	20.22	20.70	1.117	-	-	0.19	0.311	0.347
	FR1 n2	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 7	DSI 4	376000	1880	1	20.22	20.70	1.117	-	-	0.06	0.299	0.334
	FR1 n2	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 7	DSI 4	376000	1880	1	20.20	20.70	1.122	-	-	-0.03	0.290	0.325
	FR1 n2	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 7	DSI 4	376000	1880	1	20.20	20.70	1.122	-	-	-0.08	0.271	0.304
	FR1 n2	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 5	DSI 4	376000	1880	1	21.11	21.80	1.172	-	-	0.18	0.238	0.279
	FR1 n2	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 5	DSI 4	376000	1880	1	21.11	21.80	1.172	-	-	0.05	0.320	0.375
	FR1 n2	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 5	DSI 4	376000	1880	1	21.09	21.80	1.178	-	-	0.07	0.218	0.257
	FR1 n2	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 5	DSI 4	376000	1880	1	21.09	21.80	1.178	-	-	0.17	0.314	0.370
	FR1 n2	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	376000	1880	1	20.67	21.50	1.211	-	-	-0.17	0.276	0.334
	FR1 n2	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	376000	1880	1	20.67	21.50	1.211	-	-	0.07	0.408	0.494
	FR1 n2	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 0	DSI 4	376000	1880	1	20.63	21.50	1.222	-	-	0.02	0.269	0.329
99	FR1 n2	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 0	DSI 4	376000	1880	1	20.63	21.50	1.222	-	-	0.15	0.425	0.519
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 6	DSI 4	376500	1882.5	1	20.51	20.90	1.094	-	-	0.08	0.159	0.174
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 6	DSI 4	376500	1882.5	1	20.51	20.90	1.094	-	-	-0.15	0.218	0.238
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 6	DSI 4	376500	1882.5	1	20.45	20.90	1.109	-	-	-0.17	0.156	0.173
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 6	DSI 4	376500	1882.5	1	20.45	20.90	1.109	-	-	-0.01	0.240	0.266
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 7	DSI 4	376500	1882.5	1	20.80	21.00	1.047	-	-	0.08	0.358	0.375



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	FR1 n25	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 7	DSI 4	376500	1882.5	1	20.80	21.00	1.047	-	-	0.15	0.335	0.351
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 7	DSI 4	376500	1882.5	1	20.76	21.00	1.057	-	-	0.1	0.342	0.361
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 7	DSI 4	376500	1882.5	1	20.76	21.00	1.057	-	-	0.14	0.317	0.335
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 5	DSI 4	376500	1882.5	1	21.13	21.90	1.194	-	-	0.06	0.217	0.259
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 5	DSI 4	376500	1882.5	1	21.13	21.90	1.194	-	-	0.16	0.317	0.378
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 5	DSI 4	376500	1882.5	1	21.07	21.90	1.211	-	-	-0.1	0.220	0.266
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 5	DSI 4	376500	1882.5	1	21.07	21.90	1.211	-	-	-0.16	0.331	0.401
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	376500	1882.5	1	20.42	21.40	1.253	-	-	0.08	0.268	0.336
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	376500	1882.5	1	20.42	21.40	1.253	-	-	0.19	0.384	0.481
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 0	DSI 4	376500	1882.5	1	20.37	21.40	1.268	-	-	0.04	0.259	0.328
100	FR1 n25	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 0	DSI 4	376500	1882.5	1	20.37	21.40	1.268	-	-	-0.08	0.418	0.530
2300MHz																					
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 4	27710	2310	1	21.97	22.30	1.079	-	-	0.06	0.286	0.309
101	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	27710	2310	1	21.97	22.30	1.079	-	-	0.19	0.472	0.509
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 6	DSI 4	27710	2310	1	21.90	22.30	1.096	-	-	0.06	0.293	0.321
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 6	DSI 4	27710	2310	1	21.90	22.30	1.096	-	-	0	0.443	0.486
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 7	DSI 4	27710	2310	1	20.81	21.80	1.256	-	-	0.15	0.257	0.323
	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	27710	2310	1	20.81	21.80	1.256	-	-	0.14	0.361	0.453
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 7	DSI 4	27710	2310	1	20.78	21.80	1.265	-	-	0	0.261	0.330
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 7	DSI 4	27710	2310	1	20.78	21.80	1.265	-	-	-0.09	0.362	0.458
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	10mm	Ant 6	DSI 4	462000	2310	1	21.97	22.80	1.211	-	-	-0.1	0.311	0.376
102	FR1 n30	10M	QPSK	1	1	DFT-15	Back	10mm	Ant 6	DSI 4	462000	2310	1	21.97	22.80	1.211	-	-	0.01	0.526	0.637
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	10mm	Ant 6	DSI 4	462000	2310	1	21.91	22.80	1.227	-	-	-0.17	0.301	0.369
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	10mm	Ant 6	DSI 4	462000	2310	1	21.91	22.80	1.227	-	-	-0.16	0.482	0.592
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	10mm	Ant 7	DSI 4	462000	2310	1	20.49	21.40	1.233	-	-	0.02	0.266	0.328
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	10mm	Ant 7	DSI 4	462000	2310	1	20.49	21.40	1.233	-	-	0.03	0.329	0.406
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	10mm	Ant 7	DSI 4	462000	2310	1	20.46	21.40	1.242	-	-	-0.13	0.243	0.302
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	10mm	Ant 7	DSI 4	462000	2310	1	20.46	21.40	1.242	-	-	-0.06	0.323	0.401
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 4	21100	2535	1	20.69	20.80	1.026	-	-	-0.03	0.199	0.204
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	21100	2535	1	20.69	20.80	1.026	-	-	-0.03	0.349	0.358
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 4	21100	2535	1	20.63	20.80	1.040	-	-	-0.09	0.202	0.210
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 4	21100	2535	1	20.63	20.80	1.040	-	-	-0.07	0.360	0.374
	LTE Band 7C	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	21100+ 21298	2535+ 2554.8	1	20.17	20.80	1.156	-	-	0.07	0.320	0.370
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 7	DSI 4	21100	2535	1	21.12	21.60	1.117	-	-	0.19	0.350	0.391
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	21100	2535	1	21.12	21.60	1.117	-	-	-0.06	0.439	0.490
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 7	DSI 4	21100	2535	1	21.11	21.60	1.119	-	-	0.08	0.367	0.411
103	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	21100	2535	1	21.11	21.60	1.119	-	-	0.17	0.443	0.496
	LTE Band 7C	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	21100+ 21298	2535+ 2554.8	1	20.76	21.60	1.213	-	-	0.02	0.408	0.495
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 4	21100	2535	1	20.85	21.40	1.135	-	-	0.13	0.252	0.286
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	21100	2535	1	20.85	21.40	1.135	-	-	-0.16	0.371	0.421
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 4	21100	2535	1	20.77	21.40	1.156	-	-	-0.1	0.253	0.292
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 4	21100	2535	1	20.77	21.40	1.156	-	-	-0.16	0.381	0.440
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	21100	2535	1	20.41	21.30	1.227	-	-	-0.06	0.150	0.184
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	21100	2535	1	20.41	21.30	1.227	-	-	0.16	0.214	0.263
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	21100	2535	1	20.39	21.30	1.233	-	-	-0.06	0.151	0.186
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	21100	2535	1	20.39	21.30	1.233	-	-	-0.19	0.225	0.277
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 4	38000	2595	1	22.60	22.80	1.047	62.9	1.006	-0.05	0.250	0.263
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	38000	2595	1	22.60	22.80	1.047	62.9	1.006	0.12	0.338	0.356
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 4	38000	2595	1	22.53	22.80	1.064	62.9	1.006	-0.16	0.244	0.261
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 4	38000	2595	1	22.53	22.80	1.064	62.9	1.006	-0.01	0.422	0.452
	LTE Band 38C	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	37901+ 38099	2585.1+ 2604.9	1	22.51	22.80	1.069	62.9	1.006	0.09	0.402	0.432
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 7	DSI 4	38000	2595	1	22.93	23.60	1.167	62.9	1.006	-0.07	0.326	0.383
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	38000	2595	1	22.93	23.60	1.167	62.9	1.006	0.19	0.348	0.408
	LTE Band 38C	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	37901+ 38099	2585.1+ 2604.9	1	22.42	23.60	1.312	62.9	1.006	-0.05	0.307	0.405



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	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 7	DSI 4	38000	2595	1	22.40	23.60	1.318	62.9	1.006	0.05	0.270	0.358
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	38000	2595	1	22.40	23.60	1.318	62.9	1.006	-0.07	0.299	0.397
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 4	38000	2595	1	22.89	23.20	1.074	62.9	1.006	0.12	0.282	0.305
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	38000	2595	1	22.89	23.20	1.074	62.9	1.006	-0.15	0.453	0.489
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 4	38000	2595	1	22.86	23.20	1.081	62.9	1.006	-0.18	0.280	0.305
104	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 4	38000	2595	1	22.86	23.20	1.081	62.9	1.006	0.18	0.460	0.500
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	38000	2595	1	22.82	23.40	1.143	62.9	1.006	-0.11	0.252	0.290
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	38000	2595	1	22.82	23.40	1.143	62.9	1.006	0.1	0.403	0.463
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	38000	2595	1	22.79	23.40	1.151	62.9	1.006	-0.14	0.256	0.296
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	38000	2595	1	22.79	23.40	1.151	62.9	1.006	-0.09	0.408	0.472
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 4	40620	2593	1	22.10	22.30	1.047	62.9	1.006	-0.02	0.218	0.230
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	40620	2593	1	22.10	22.30	1.047	62.9	1.006	0	0.370	0.390
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 4	40620	2593	1	22.04	22.30	1.062	62.9	1.006	0.17	0.218	0.233
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 4	40620	2593	1	22.04	22.30	1.062	62.9	1.006	0.03	0.385	0.411
	LTE Band 41C	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	40620+40818	2593+2612.8	1	21.82	22.30	1.117	62.9	1.006	-0.07	0.350	0.393
	LTE Band 41 PC2	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 4	40620	2593	1	23.70	23.90	1.047	42.9	1.009	-0.09	0.352	0.372
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 7	DSI 4	40620	2593	1	23.67	24.00	1.079	62.9	1.006	-0.08	0.347	0.377
105	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	40620	2593	1	23.67	24.00	1.079	62.9	1.006	-0.05	0.486	0.528
	LTE Band 41C	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	40620+40818	2593+2612.8	1	22.71	23.50	1.199	62.9	1.006	-0.08	0.269	0.325
	LTE Band 41 PC2	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	40620	2593	1	25.66	26.00	1.081	42.9	1.009	-0.09	0.477	0.520
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 7	DSI 4	40620	2593	1	22.74	23.00	1.062	62.9	1.006	0.13	0.266	0.284
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	40620	2593	1	22.74	23.00	1.062	62.9	1.006	0.12	0.303	0.324
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 4	40620	2593	1	23.23	23.30	1.016	62.9	1.006	-0.19	0.215	0.220
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	40620	2593	1	23.23	23.30	1.016	62.9	1.006	0.17	0.358	0.366
	LTE Band 41 PC2	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	40620	2593	1	24.89	24.90	1.002	42.9	1.009	-0.05	0.335	0.339
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 4	40620	2593	1	23.16	23.30	1.033	62.9	1.006	-0.1	0.193	0.201
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 4	40620	2593	1	23.16	23.30	1.033	62.9	1.006	-0.15	0.321	0.334
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	40620	2593	1	22.75	23.80	1.274	62.9	1.006	0.07	0.227	0.291
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	40620	2593	1	22.75	23.80	1.274	62.9	1.006	0.18	0.368	0.471
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	40620	2593	1	22.68	23.80	1.294	62.9	1.006	-0.17	0.246	0.320
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	40620	2593	1	22.68	23.80	1.294	62.9	1.006	0.17	0.375	0.488
	LTE Band 41 PC2	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	40620	2593	1	24.56	25.40	1.213	42.9	1.009	-0.19	0.358	0.438
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	10mm	Ant 6	DSI 4	507000	2535	1	21.39	21.70	1.074	-	-	0.11	0.297	0.319
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	10mm	Ant 6	DSI 4	507000	2535	1	21.39	21.70	1.074	-	-	0.16	0.452	0.485
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	10mm	Ant 6	DSI 4	507000	2535	1	21.38	21.70	1.076	-	-	-0.06	0.288	0.310
106	FR1 n7	50M	QPSK	135	68	DFT-15	Back	10mm	Ant 6	DSI 4	507000	2535	1	21.38	21.70	1.076	-	-	-0.13	0.482	0.519
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	10mm	Ant 7	DSI 4	507000	2535	1	20.43	21.30	1.222	-	-	0.15	0.241	0.294
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	10mm	Ant 7	DSI 4	507000	2535	1	20.43	21.30	1.222	-	-	0.16	0.293	0.358
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	10mm	Ant 7	DSI 4	507000	2535	1	20.40	21.30	1.230	-	-	-0.01	0.297	0.365
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	10mm	Ant 7	DSI 4	507000	2535	1	20.40	21.30	1.230	-	-	-0.19	0.369	0.454
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	10mm	Ant 5	DSI 4	507000	2535	1	20.98	21.70	1.180	-	-	0.06	0.252	0.297
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	10mm	Ant 5	DSI 4	507000	2535	1	20.98	21.70	1.180	-	-	0.01	0.384	0.453
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	10mm	Ant 5	DSI 4	507000	2535	1	20.90	21.70	1.202	-	-	0.13	0.246	0.296
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	10mm	Ant 5	DSI 4	507000	2535	1	20.90	21.70	1.202	-	-	-0.12	0.387	0.465
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	507000	2535	1	20.02	21.40	1.374	-	-	-0.15	0.114	0.157
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	507000	2535	1	20.02	21.40	1.374	-	-	-0.13	0.154	0.212
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	10mm	Ant 0	DSI 4	507000	2535	1	20.01	21.40	1.377	-	-	0	0.109	0.150
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	10mm	Ant 0	DSI 4	507000	2535	1	20.01	21.40	1.377	-	-	-0.01	0.177	0.244
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	519000	2595	1	20.26	21.10	1.213	-	-	-0.02	0.232	0.282
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	519000	2595	1	20.26	21.10	1.213	-	-	0.09	0.417	0.506
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 6	DSI 4	519000	2595	1	20.19	21.10	1.233	-	-	-0.11	0.234	0.289
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 6	DSI 4	519000	2595	1	20.19	21.10	1.233	-	-	-0.08	0.407	0.502
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	519000	2595	1	21.03	22.00	1.250	-	-	0.06	0.326	0.408
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	519000	2595	1	21.03	22.00	1.250	-	-	-0.03	0.418	0.523
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 7	DSI 4	519000	2595	1	21.02	22.00	1.253	-	-	0.14	0.316	0.396



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	FR1 n38	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 7	DSI 4	519000	2595	1	21.02	22.00	1.253	-	-	0.15	0.404	0.506
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	519000	2595	1	20.41	21.40	1.256	-	-	-0.18	0.272	0.342
107	FR1 n38	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	519000	2595	1	20.41	21.40	1.256	-	-	-0.13	0.438	0.550
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 5	DSI 4	519000	2595	1	20.38	21.40	1.265	-	-	0.1	0.275	0.348
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 5	DSI 4	519000	2595	1	20.38	21.40	1.265	-	-	-0.03	0.421	0.532
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 0	DSI 4	519000	2595	1	19.82	21.30	1.406	-	-	-0.07	0.173	0.243
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	519000	2595	1	19.82	21.30	1.406	-	-	0.12	0.268	0.377
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 0	DSI 4	519000	2595	1	19.78	21.30	1.419	-	-	-0.1	0.189	0.268
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 0	DSI 4	519000	2595	1	19.78	21.30	1.419	-	-	0.14	0.304	0.431
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	518598	2592.99	1	20.25	21.30	1.274	-	-	-0.14	0.254	0.323
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	518598	2592.99	1	20.25	21.30	1.274	-	-	0.05	0.457	0.582
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	518598	2592.99	1	20.22	21.30	1.282	-	-	-0.02	0.288	0.369
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	518598	2592.99	1	20.22	21.30	1.282	-	-	0.02	0.503	0.645
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 6	DSI 4	518598	2592.99	1	20.19	21.30	1.291	-	-	0.03	0.501	0.647
	FR1 n41C	100M	QPSK	144	129	DFT-30	Back	10mm	Ant 6	DSI 4	509598+528582	2547.99+2642.91	1	19.47	21.30	1.525	-	-	-0.07	0.385	0.587
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	518598	2592.99	1	20.25	21.40	1.303	-	-	-0.13	0.328	0.427
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	518598	2592.99	1	20.25	21.40	1.303	-	-	-0.11	0.369	0.481
	FR1 n41C	100M	QPSK	144	129	DFT-30	Back	10mm	Ant 7	DSI 4	509202+528186	2546.01+2640.93	1	20.53	21.40	1.222	-	-	-0.03	0.316	0.386
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	518598	2592.99	1	20.22	21.40	1.312	-	-	-0.05	0.266	0.349
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	518598	2592.99	1	20.22	21.40	1.312	-	-	-0.05	0.345	0.453
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	518598	2592.99	1	21.16	22.20	1.271	-	-	-0.08	0.280	0.356
108	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	518598	2592.99	1	21.16	22.20	1.271	-	-	0.1	0.537	0.682
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	518598	2592.99	2	21.16	22.20	1.271	-	-	0.05	0.428	0.544
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 5	DSI 4	518598	2592.99	1	21.12	22.20	1.282	-	-	0.04	0.290	0.372
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 5	DSI 4	518598	2592.99	1	21.12	22.20	1.282	-	-	-0.01	0.450	0.577
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 5	DSI 4	518598	2592.99	1	21.05	22.20	1.303	-	-	-0.03	0.452	0.589
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 0	DSI 4	518598	2592.99	1	20.89	21.60	1.178	-	-	-0.08	0.185	0.218
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	518598	2592.99	1	20.89	21.60	1.178	-	-	0.07	0.332	0.391
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 0	DSI 4	518598	2592.99	1	20.84	21.60	1.191	-	-	0.1	0.245	0.292
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 0	DSI 4	518598	2592.99	1	20.84	21.60	1.191	-	-	-0.18	0.321	0.382
3500-3900MHZ																					
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 10	DSI 4	55830	3609	1	20.15	20.70	1.135	62.9	1.006	-0.07	0.279	0.319
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 10	DSI 4	55830	3609	1	20.15	20.70	1.135	62.9	1.006	0.15	0.290	0.331
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 10	DSI 4	55830	3609	1	20.14	20.70	1.138	62.9	1.006	-0.11	0.288	0.330
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 10	DSI 4	55830	3609	1	20.14	20.70	1.138	62.9	1.006	-0.02	0.413	0.473
	LTE Band 48C	20M	QPSK	1	0	-	Back	10mm	Ant 10	DSI 4	55830+56028	3609+3628.8	1	20.10	20.70	1.148	62.9	1.006	0.09	0.200	0.231
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 13	DSI 4	55830	3609	1	20.95	21.30	1.084	62.9	1.006	-0.14	0.235	0.256
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 13	DSI 4	55830	3609	1	20.95	21.30	1.084	62.9	1.006	-0.11	0.328	0.358
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 13	DSI 4	55830	3609	1	20.89	21.30	1.099	62.9	1.006	-0.06	0.229	0.253
109	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 13	DSI 4	55830	3609	1	20.89	21.30	1.099	62.9	1.006	0.08	0.430	0.475
	LTE Band 48C	20M	QPSK	1	0	-	Back	10mm	Ant 13	DSI 4	55830+56028	3609+3628.8	1	20.87	21.30	1.104	62.9	1.006	0.03	0.229	0.254
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 4	55830	3609	1	21.72	21.80	1.019	62.9	1.006	-0.09	0.043	0.044
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 4	55830	3609	1	21.72	21.80	1.019	62.9	1.006	-0.14	0.205	0.210
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 4	55830	3609	1	20.78	21.80	1.265	62.9	1.006	-0.05	0.054	0.069
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 4	55830	3609	1	20.78	21.80	1.265	62.9	1.006	0.03	0.170	0.216
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 12	DSI 4	55830	3609	1	20.69	21.30	1.151	62.9	1.006	-0.04	0.251	0.291
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 12	DSI 4	55830	3609	1	20.69	21.30	1.151	62.9	1.006	-0.01	0.336	0.389
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 12	DSI 4	55830	3609	1	19.95	21.30	1.365	62.9	1.006	-0.13	0.207	0.284
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 12	DSI 4	55830	3609	1	19.95	21.30	1.365	62.9	1.006	0.15	0.292	0.401
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 10	DSI 4	641666	3624.99	1	18.39	19.20	1.205	-	-	0.06	0.329	0.396
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	641666	3624.99	1	18.39	19.20	1.205	-	-	0.15	0.429	0.517
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 10	DSI 4	641666	3624.99	1	18.36	19.20	1.213	-	-	0.07	0.331	0.402
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 10	DSI 4	641666	3624.99	1	18.36	19.20	1.213	-	-	-0.06	0.370	0.449
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 13	DSI 4	641666	3624.99	1	17.77	18.80	1.268	-	-	0.18	0.204	0.259
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 13	DSI 4	641666	3624.99	1	17.77	18.80	1.268	-	-	-0.18	0.307	0.389



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	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 13	DSI 4	641666	3624.99	1	17.74	18.80	1.276	-	-	0.04	0.160	0.204
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 13	DSI 4	641666	3624.99	1	17.74	18.80	1.276	-	-	-0.05	0.262	0.334
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	641666	3624.99	1	19.75	20.70	1.245	-	-	0.06	0.073	0.091
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	641666	3624.99	1	19.75	20.70	1.245	-	-	-0.03	0.265	0.330
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 4	DSI 4	641666	3624.99	1	19.70	20.70	1.259	-	-	-0.01	0.058	0.073
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 4	DSI 4	641666	3624.99	1	19.70	20.70	1.259	-	-	0	0.225	0.283
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 12	DSI 4	641666	3624.99	1	19.88	20.70	1.208	-	-	-0.01	0.354	0.428
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	641666	3624.99	1	19.88	20.70	1.208	-	-	0.02	0.515	0.622
110	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	638000	3570	1	19.87	20.70	1.211	-	-	0.17	0.707	0.856
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	645332	3679.98	1	19.80	20.70	1.230	-	-	-0.03	0.527	0.648
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 12	DSI 4	641666	3624.99	1	19.82	20.70	1.225	-	-	0.14	0.321	0.393
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 12	DSI 4	641666	3624.99	1	19.82	20.70	1.225	-	-	0.16	0.509	0.623
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 12	DSI 4	638000	3570	1	19.80	20.70	1.230	-	-	0	0.570	0.701
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 12	DSI 4	645332	3679.98	1	19.75	20.70	1.245	-	-	0.01	0.432	0.538
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	10mm	Ant 12	DSI 4	641666	3624.99	1	16.89	18.20	1.352	-	-	0.19	0.245	0.331
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 10	DSI 4	633332	3499.98	1	17.78	18.70	1.236	-	-	-0.08	0.162	0.200
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	633332	3499.98	1	17.78	18.70	1.236	-	-	0.11	0.169	0.209
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 10	DSI 4	633332	3499.98	1	17.75	18.70	1.245	-	-	-0.19	0.204	0.254
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 10	DSI 4	633332	3499.98	1	17.75	18.70	1.245	-	-	-0.12	0.214	0.266
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 10	DSI 4	656000	3840	1	17.48	18.70	1.324	-	-	-0.15	0.180	0.238
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	656000	3840	1	17.48	18.70	1.324	-	-	-0.04	0.247	0.327
	FR1 n77C	100M	QPSK	135	138	DFT-30	Back	10mm	Ant 10	DSI 4	650000+ 656664	3750+ 3849.96	1	17.28	18.70	1.387	-	-	0.16	0.215	0.298
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 10	DSI 4	656000	3840	1	17.42	18.70	1.343	-	-	0.11	0.142	0.191
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 10	DSI 4	656000	3840	1	17.42	18.70	1.343	-	-	-0.12	0.211	0.283
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 13	DSI 4	633332	3499.98	1	17.04	18.10	1.276	-	-	0.13	0.145	0.185
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 13	DSI 4	633332	3499.98	1	17.04	18.10	1.276	-	-	0.15	0.237	0.303
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 13	DSI 4	633332	3499.98	1	17.02	18.10	1.282	-	-	0.1	0.153	0.196
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 13	DSI 4	633332	3499.98	1	17.02	18.10	1.282	-	-	-0.13	0.221	0.283
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 13	DSI 4	656000	3840	1	16.97	18.10	1.297	-	-	0.1	0.045	0.058
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 13	DSI 4	656000	3840	1	16.97	18.10	1.297	-	-	-0.05	0.080	0.104
	FR1 n77C	100M	QPSK	135	138	DFT-30	Back	10mm	Ant 13	DSI 4	650000+ 656664	3750+ 3849.96	1	17.38	18.10	1.180	-	-	0.07	0.062	0.073
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 13	DSI 4	656000	3840	1	16.93	18.10	1.309	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 13	DSI 4	656000	3840	1	16.93	18.10	1.309	-	-	-0.03	0.047	0.062
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	633332	3499.98	1	21.76	22.60	1.213	-	-	0.06	0.302	0.366
111	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	633332	3499.98	1	21.76	22.60	1.213	-	-	-0.18	0.738	0.895
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	633332	3499.98	1	21.70	22.60	1.230	-	-	0.1	0.251	0.309
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	633332	3499.98	1	21.70	22.60	1.230	-	-	0.04	0.724	0.891
	FR1 n77	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 4	DSI 4	633332	3499.98	1	21.29	22.60	1.352	-	-	-0.04	0.656	0.887
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	1	21.63	22.60	1.250	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	1	21.63	22.60	1.250	-	-	0.14	0.168	0.210
	FR1 n77C	100M	QPSK	135	138	DFT-30	Back	10mm	Ant 4	DSI 4	652668+ 659332	3790.02+ 3889.98	1	21.83	22.60	1.194	-	-	0.04	0.145	0.173
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	1	21.57	22.60	1.268	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	1	21.57	22.60	1.268	-	-	0.04	0.166	0.210
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 12	DSI 4	633332	3499.98	1	18.00	18.90	1.230	-	-	0.01	0.229	0.282
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	1	18.00	18.90	1.230	-	-	-0.08	0.367	0.452
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 12	DSI 4	633332	3499.98	1	17.97	18.90	1.239	-	-	0.18	0.228	0.282
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	1	17.97	18.90	1.239	-	-	0.15	0.359	0.445
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 12	DSI 4	656000	3840	1	17.72	18.90	1.312	-	-	0.13	0.117	0.154
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	656000	3840	1	17.72	18.90	1.312	-	-	0.07	0.232	0.304
	FR1 n77C	100M	QPSK	135	138	DFT-30	Back	10mm	Ant 12	DSI 4	650000+ 656664	3750+ 3849.96	1	18.28	18.90	1.153	-	-	0.18	0.214	0.247
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 12	DSI 4	656000	3840	1	17.71	18.90	1.315	-	-	0.1	0.103	0.135
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 12	DSI 4	656000	3840	1	17.71	18.90	1.315	-	-	0.06	0.207	0.272
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 10	DSI 4	633332	3499.98	1	18.14	19.20	1.276	-	-	0.13	0.201	0.257
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	633332	3499.98	1	18.14	19.20	1.276	-	-	-0.08	0.250	0.319
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 10	DSI 4	633332	3499.98	1	18.09	19.20	1.291	-	-	0.09	0.229	0.296



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	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 10	DSI 4	633332	3499.98	1	18.09	19.20	1.291	-	-	-0.19	0.277	0.358
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 10	DSI 4	650000	3750	1	18.11	19.20	1.285	-	-	-0.17	0.241	0.310
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 10	DSI 4	650000	3750	1	18.11	19.20	1.285	-	-	0.07	0.323	0.415
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 10	DSI 4	650000	3750	1	18.08	19.20	1.294	-	-	0.17	0.187	0.242
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 10	DSI 4	650000	3750	1	18.08	19.20	1.294	-	-	-0.09	0.282	0.365
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 13	DSI 4	633332	3499.98	1	17.21	18.60	1.377	-	-	-0.15	0.187	0.258
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 13	DSI 4	633332	3499.98	1	17.21	18.60	1.377	-	-	0.17	0.331	0.456
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 13	DSI 4	633332	3499.98	1	17.15	18.60	1.396	-	-	-0.13	0.177	0.247
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 13	DSI 4	633332	3499.98	1	17.15	18.60	1.396	-	-	0.19	0.284	0.397
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 13	DSI 4	650000	3750	1	17.20	18.60	1.380	-	-	0.09	0.102	0.141
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 13	DSI 4	650000	3750	1	17.20	18.60	1.380	-	-	-0.13	0.162	0.224
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 13	DSI 4	650000	3750	1	17.13	18.60	1.403	-	-	0.1	0.080	0.112
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 13	DSI 4	650000	3750	1	17.13	18.60	1.403	-	-	0.12	0.129	0.181
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	633332	3499.98	1	19.52	20.20	1.169	-	-	-0.1	0.113	0.132
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	633332	3499.98	1	19.52	20.20	1.169	-	-	0.1	0.409	0.478
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	633332	3499.98	1	19.51	20.20	1.172	-	-	0.04	0.090	0.105
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	633332	3499.98	1	19.51	20.20	1.172	-	-	0.1	0.390	0.457
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	1	19.27	20.20	1.239	-	-	-	n/a	n/a
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	1	19.27	20.20	1.239	-	-	0.11	0.109	0.135
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	1	19.21	20.20	1.256	-	-	-	n/a	n/a
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	1	19.21	20.20	1.256	-	-	-0.1	0.076	0.095
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 12	DSI 4	633332	3499.98	1	20.88	21.60	1.180	-	-	-0.19	0.457	0.539
112	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	1	20.88	21.60	1.180	-	-	0.04	0.764	0.902
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	2	20.88	21.60	1.180	-	-	-0.05	0.741	0.875
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 12	DSI 4	633332	3499.98	1	20.83	21.60	1.194	-	-	0.07	0.428	0.511
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	1	20.83	21.60	1.194	-	-	-0.14	0.710	0.848
	FR1 n78	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 12	DSI 4	633332	3499.98	1	20.85	21.60	1.189	-	-	0.04	0.619	0.736
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 12	DSI 4	650000	3750	1	20.68	21.60	1.236	-	-	0.03	0.330	0.408
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 12	DSI 4	650000	3750	1	20.68	21.60	1.236	-	-	0	0.549	0.679
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 12	DSI 4	650000	3750	1	20.61	21.60	1.256	-	-	0.18	0.279	0.350
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 12	DSI 4	650000	3750	1	20.61	21.60	1.256	-	-	0.01	0.553	0.695
	FR1 n78	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 12	DSI 4	650000	3750	1	20.52	21.60	1.282	-	-	0.07	0.438	0.562

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																	
	Bluetooth	DH5 1Mbps	Front	10mm	Ant 11	Standalone	39	2441	1	18.72	20.00	1.343	77.07	1.298	0.08	0.167	0.291
	Bluetooth	DH5 1Mbps	Back	10mm	Ant 11	Standalone	39	2441	1	18.72	20.00	1.343	77.07	1.298	0.03	0.180	0.314
	Bluetooth	DH5 1Mbps	Front	10mm	Ant 7	Standalone	78	2480	1	18.87	20.00	1.297	77.07	1.298	-0.16	0.216	0.364
113	Bluetooth	DH5 1Mbps	Back	10mm	Ant 7	Standalone	78	2480	1	18.87	20.00	1.297	77.07	1.298	-0.19	0.271	0.456
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 11	Standalone	1	2412	1	20.56	22.00	1.393	99.84	1.002	0.18	0.253	0.353
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 11	Standalone	1	2412	1	20.56	22.00	1.393	99.84	1.002	0.18	0.261	0.364
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 7	Standalone	1	2412	1	20.29	21.50	1.321	99.92	1.001	-0.16	0.291	0.385
114	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 7	Standalone	1	2412	1	20.29	21.50	1.321	99.92	1.001	-0.07	0.389	0.514
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 11+7	Standalone	1	2412	1	21.73	23.20	1.403	99.92	1.001	0.16	0.249	0.350
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 11+7	Standalone	1	2412	1	21.73	23.20	1.403	99.92	1.001	-0.14	0.288	0.404
5000MHz																	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 15	Standalone	58	5290	1	14.95	16.50	1.429	100	1.000	0.12	0.117	0.167
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 15	Standalone	58	5290	1	14.95	16.50	1.429	100	1.000	-0.08	0.112	0.160
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 10	Standalone	58	5290	1	17.39	19.00	1.449	100	1.000	0.01	0.223	0.323
115	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 10	Standalone	58	5290	1	17.39	19.00	1.449	100	1.000	0.01	0.242	0.351
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 15+10	Standalone	58	5290	1	19.00	20.50	1.413	100	1.000	0.09	0.202	0.285
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 15+10	Standalone	58	5290	1	19.00	20.50	1.413	100	1.000	0.04	0.236	0.333
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 15	Standalone	122	5610	1	15.86	17.50	1.459	100	1.000	0.12	0.128	0.187



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	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 15	Standalone	122	5610	1	15.86	17.50	1.459	100	1.000	-0.13	0.247	0.360
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 10	Standalone	122	5610	1	20.53	21.50	1.250	100	1.000	0.12	0.283	0.354
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 10	Standalone	122	5610	1	20.53	21.50	1.250	100	1.000	0.04	0.645	0.806
116	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 10	Standalone	106	5530	1	20.32	21.50	1.312	100	1.000	-0.16	0.641	0.841
	WLAN5.5GHz	802.11a 6Mbps	Front	10mm	Ant 15+10	Standalone	116	5580	1	18.98	20.00	1.266	99.53	1.005	0.14	0.150	0.191
	WLAN5.5GHz	802.11a 6Mbps	Back	10mm	Ant 15+10	Standalone	116	5580	1	18.98	20.00	1.266	99.53	1.005	-0.14	0.336	0.427
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 15	Standalone	155	5775	1	17.68	19.50	1.521	100	1.000	0.02	0.154	0.234
117	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 15	Standalone	155	5775	1	17.68	19.50	1.521	100	1.000	-0.19	0.573	0.871
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 15	Standalone	155	5775	2	17.68	19.50	1.521	100	1.000	0.04	0.555	0.844
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 10	Standalone	155	5775	1	16.82	18.50	1.472	100	1.000	-0.02	0.112	0.165
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 10	Standalone	155	5775	1	16.82	18.50	1.472	100	1.000	-0.09	0.221	0.325
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 15+10	Standalone	155	5775	1	19.55	21.10	1.429	100	1.000	0.08	0.144	0.206
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 15+10	Standalone	155	5775	1	19.55	21.10	1.429	100	1.000	0.13	0.485	0.693

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
6000MHz																		
	WLAN6GHz	802.11be-EHT320 MCS0	Front	10mm	Ant 15+10	Standalone	191	6905	1	12.99	14.00	1.263	99.63	1.004	-0.15	0.015	0.019	0.144
	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	191	6905	1	12.99	14.00	1.263	99.63	1.004	0.18	0.052	0.066	0.494
118	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	31	6105	1	12.28	13.50	1.324	99.63	1.004	-0.05	0.137	0.182	1.218
	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	31	6105	2	12.28	13.50	1.324	99.63	1.004	0.02	0.116	0.154	1.14
	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	63	6265	1	12.21	13.50	1.345	99.63	1.004	-0.11	0.135	0.182	1.167
	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	127	6585	1	12.45	14.00	1.429	99.63	1.004	-0.12	0.081	0.116	0.77
	WLAN6GHz	802.11be-EHT320 MCS0	Back	10mm	Ant 15+10	Standalone	159	6745	1	12.21	14.00	1.510	99.63	1.004	-0.13	0.074	0.112	0.689



15.4 Product specific 10g SAR

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
5000MHz																	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 15	Standalone	42	5210	1	14.87	16.50	1.455	100	1.000	-0.18	0.458	0.667
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 15	Standalone	42	5210	1	14.87	16.50	1.455	100	1.000	-0.05	0.221	0.322
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 15	Standalone	42	5210	1	14.87	16.50	1.455	100	1.000	0.01	0.135	0.196
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 15	Standalone	42	5210	1	14.87	16.50	1.455	100	1.000	0.14	1.270	1.848
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 10	Standalone	42	5210	1	17.31	19.00	1.476	100	1.000	0.07	1.160	1.712
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 10	Standalone	42	5210	1	17.31	19.00	1.476	100	1.000	0.09	0.628	0.927
119	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 10	Standalone	42	5210	1	17.31	19.00	1.476	100	1.000	0.09	1.780	2.627
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 10	Standalone	42	5210	1	17.31	19.00	1.476	100	1.000	-0.04	0.197	0.291
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	0mm	Ant 15+10	Standalone	38	5190	1	18.23	20.00	1.505	100	1.000	0.03	0.481	0.724
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 15+10	Standalone	38	5190	1	18.23	20.00	1.505	100	1.000	-0.12	0.237	0.357
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 15+10	Standalone	38	5190	1	18.23	20.00	1.505	100	1.000	-0.08	0.882	1.327
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 15+10	Standalone	38	5190	1	18.23	20.00	1.505	100	1.000	-0.08	1.410	2.122
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 15+10	Standalone	46	5230	1	18.18	20.00	1.522	100	1.000	0.19	1.350	2.055
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 15	Standalone	58	5290	1	14.95	16.50	1.429	100	1.000	-0.18	0.498	0.712
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 15	Standalone	58	5290	1	14.95	16.50	1.429	100	1.000	0.01	0.221	0.316
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 15	Standalone	58	5290	1	14.95	16.50	1.429	100	1.000	0.06	0.145	0.207
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 15	Standalone	58	5290	1	14.95	16.50	1.429	100	1.000	-0.09	1.260	1.800
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 10	Standalone	58	5290	1	17.39	19.00	1.449	100	1.000	-0.04	1.150	1.666
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 10	Standalone	58	5290	1	17.39	19.00	1.449	100	1.000	-0.15	0.881	1.276
120	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 10	Standalone	58	5290	1	17.39	19.00	1.449	100	1.000	0.06	1.710	2.477
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 10	Standalone	58	5290	1	17.39	19.00	1.449	100	1.000	0.15	0.254	0.368
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 15+10	Standalone	58	5290	1	19.00	20.50	1.413	100	1.000	0.06	0.614	0.867
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 15+10	Standalone	58	5290	1	19.00	20.50	1.413	100	1.000	0.07	0.414	0.585
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 15+10	Standalone	58	5290	1	19.00	20.50	1.413	100	1.000	-0.12	1.130	1.596
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 15+10	Standalone	58	5290	1	19.00	20.50	1.413	100	1.000	0.14	1.620	2.288
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 15	Standalone	122	5610	1	15.86	17.50	1.459	100	1.000	-0.12	0.589	0.859
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 15	Standalone	122	5610	1	15.86	17.50	1.459	100	1.000	-0.16	0.399	0.582
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 15	Standalone	122	5610	1	15.86	17.50	1.459	100	1.000	0.04	0.214	0.312
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 15	Standalone	122	5610	1	15.86	17.50	1.459	100	1.000	0	1.260	1.838
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 10	Standalone	122	5610	1	20.53	21.50	1.250	100	1.000	-0.04	1.290	1.613
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 10	Standalone	122	5610	1	20.53	21.50	1.250	100	1.000	0.07	0.979	1.224
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 10	Standalone	122	5610	1	20.53	21.50	1.250	100	1.000	-0.18	1.750	2.188
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 10	Standalone	122	5610	1	20.53	21.50	1.250	100	1.000	-0.05	0.180	0.225
121	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 10	Standalone	106	5530	1	20.32	21.50	1.312	100	1.000	0.14	2.120	2.782
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 10	Standalone	106	5530	2	20.32	21.50	1.312	100	1.000	-0.04	1.290	1.693
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 15+10	Standalone	116	5580	1	18.98	20.00	1.266	99.53	1.005	-0.04	0.585	0.744
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 15+10	Standalone	116	5580	1	18.98	20.00	1.266	99.53	1.005	0.12	0.424	0.539
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 15+10	Standalone	116	5580	1	18.98	20.00	1.266	99.53	1.005	-0.06	0.645	0.820
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 15+10	Standalone	116	5580	1	18.98	20.00	1.266	99.53	1.005	-0.13	0.960	1.221



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m^2)
6000MHz																		
	WLAN6GHz	802.11be-EHT320 MCS0	Front	0mm	Ant 15+10	Standalone	191	6905	1	13.19	14.00	1.205	99.63	1.004	0.05	0.110	0.133	2.76
	WLAN6GHz	802.11be-EHT320 MCS0	Back	0mm	Ant 15+10	Standalone	191	6905	1	13.19	14.00	1.205	99.63	1.004	0.09	0.147	0.178	3.67
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 15+10	Standalone	191	6905	1	13.19	14.00	1.205	99.63	1.004	-0.1	0.314	0.380	7.84
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 15+10	Standalone	191	6905	1	13.19	14.00	1.205	99.63	1.004	0.15	0.217	0.263	5.42
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 15+10	Standalone	31	6105	1	12.28	13.50	1.324	99.63	1.004	0.19	0.273	0.363	6.82
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 15+10	Standalone	63	6265	1	12.21	13.50	1.345	99.63	1.004	-0.05	0.293	0.396	7.32
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 15+10	Standalone	127	6585	1	12.45	14.00	1.429	99.63	1.004	-0.11	0.331	0.475	7.92
122	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 15+10	Standalone	159	6745	1	12.21	14.00	1.510	99.63	1.004	0.1	0.371	0.562	8.64
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	0mm	Ant 15+10	Standalone	159	6745	2	12.21	14.00	1.510	99.63	1.004	0.09	0.336	0.509	8.32



15.5 6GHz PD Test Result

<WLAN PD>

Band	Mode	Test Position	Gap (mm)	Antenna	Power state	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 15+10	Standalone	31	6105	1	12.28	0.0625	1.735	-0.255	2.63	3.6
WLAN6GHz	802.11be-EHT320 MCS0	Right Side	10mm	Ant 15+10	Standalone	31	6105	1	12.28	0.25	1.84		1.15	1.2
WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 15+10	Standalone	191	6905	2	13.19	0.0625	2.19	-0.487	3.47	4.18
WLAN6GHz	802.11be-EHT320 MCS0	Right Side	8.59mm	Ant 15+10	Standalone	191	6905	1	13.19	0.25	2.45		0.553	0.564

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power state	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for measurement uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 15+10	Standalone	31	6105	1	12.28	13.50	1.324	99.63	1.004	0.0625	1.5535	0.02	2.63	5.43	3.6	7.43
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 15+10	Standalone	63	6265	1	12.21	13.50	1.345	99.63	1.004	0.0625	1.5535	-0.04	1.57	3.29	3.18	6.67
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 15+10	Standalone	127	6585	1	12.45	14.00	1.429	99.63	1.004	0.0625	1.5535	0.06	2.29	5.10	2.68	5.97
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 15+10	Standalone	159	6745	1	12.21	14.00	1.510	99.63	1.004	0.0625	1.5535	0.05	2.02	4.76	2.61	6.15
01	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 15+10	Standalone	191	6905	1	13.19	14.00	1.205	99.63	1.004	0.0625	1.5535	0.02	3.47	6.52	4.18	7.86
	WLAN6GHz	802.11be-EHT320 MCS0	Right Side	2mm	Ant 15+10	Standalone	191	6905	2	13.19	14.00	1.205	99.63	1.004	0.0625	1.5535	0.01	3.13	5.88	3.56	6.69
	WLAN6GHz	802.11be-EHT320 MCS0	Front	2mm	Ant 15+10	Standalone	191	6905	1	13.19	14.00	1.205	99.63	1.004	0.0625	1.5535	-0.02	0.524	0.98	0.563	1.06
	WLAN6GHz	802.11be-EHT320 MCS0	Back	2mm	Ant 15+10	Standalone	191	6905	1	13.19	14.00	1.205	99.63	1.004	0.0625	1.5535	0.11	0.664	1.25	0.811	1.52
	WLAN6GHz	802.11be-EHT320 MCS0	Back-top	2mm	Ant 15+10	Standalone	191	6905	1	13.19	14.00	1.205	99.63	1.004	0.0625	1.5535	0.03	0.287	0.54	0.455	0.86
	WLAN6GHz	802.11be-EHT320 MCS0	Back-Left	2mm	Ant 15+10	Standalone	191	6905	1	13.19	14.00	1.205	99.63	1.004	0.0625	1.5535	0.09	1.09	2.05	1.13	2.12
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 15+10	Standalone	191	6905	1	13.19	14.00	1.205	99.63	1.004	0.0625	1.5535	0.05	0.557	1.05	0.796	1.50



15.6 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 5	4233	846.6	23.33	24.60	1.340	-	-	-0.15	0.841	1	1.127
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 5	4233	846.6	23.33	24.60	1.340	-	-	-0.06	0.828	1.016	1.109
1st	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 5	132572	1770	19.55	19.90	1.084	-	-	0.17	0.995	1	1.079
2nd	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 5	132572	1770	19.55	19.90	1.084	-	-	0.05	0.977	1.018	1.059
1st	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 6	DSI 5	462000	2310	19.05	19.50	1.109	-	-	-0.14	1.070	1	1.187
2nd	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 6	DSI 5	462000	2310	19.05	19.50	1.109	-	-	-0.01	0.989	1.082	1.097
1st	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 5	41490	2680	20.45	20.90	1.109	62.9	1.006	0.17	1.030	1	1.149
2nd	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 5	41490	2680	20.45	20.90	1.109	62.9	1.006	0.11	0.981	1.050	1.095
1st	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 10	DSI 5	645332	3679.98	14.66	15.70	1.271	-	-	-0.13	0.801	1	1.018
2nd	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 10	DSI 5	645332	3679.98	14.66	15.70	1.271	-	-	-0.07	0.776	1.032	0.986
1st	FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 13	DSI 5	633332	3499.98	13.46	14.70	1.330	-	-	0.19	0.893	1	1.188
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 13	DSI 5	633332	3499.98	13.46	14.70	1.330	-	-	0.04	0.851	1.049	1.132
1st	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 10	Standalone	122	5610	15.94	17.00	1.276	100	1.000	0.15	0.818	1	1.044
2nd	WLAN5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 10	Standalone	122	5610	15.94	17.00	1.276	100	1.000	0.11	0.802	1.020	1.024
1st	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI 4	26590	1905	22.21	23.00	1.199	-	-	-0.07	0.975	1	1.170
2nd	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI 4	26590	1905	22.21	23.00	1.199	-	-	0.02	0.951	1.025	1.141
1st	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 12	DSI 4	633332	3499.98	20.88	21.60	1.180	-	-	0.06	0.893	1	1.054
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 12	DSI 4	633332	3499.98	20.88	21.60	1.180	-	-	0.04	0.864	1.034	1.020

<10g>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 10	Standalone	106	5530	20.32	21.50	1.312	100	1.000	0.14	2.120	1	2.782
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 10	Standalone	106	5530	20.32	21.50	1.312	100	1.000	0.03	2.010	1.055	2.638

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The ratio is the difference in percentage between original and repeated *measured* SAR.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.



15.7 TDD LTE Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

Head			Hopspot		
LTE Band 41_Ant 6(HPUE)-Linearity Data for DSI 5			LTE Band 41_Ant 6(HPUE)-Linearity Data for DSI 4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	20.90	22.50	Maximum Tune up Power (dBm)	22.30	23.90
Reported 1g SAR (W/kg)	1.149	1.131	Reported 1g SAR (W/kg)	0.786	0.709
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	77.88	77.00	Frame Averaged (mW)	107.50	106.29
Linearity SAR (W/kg)	1.136		Linearity SAR (W/kg)	0.777	
% deviation from expected linearity		-0.45%	% deviation from expected linearity		-8.77%
LTE Band 41_Ant 7(HPUE)-Linearity Data for DSI 5			LTE Band 41_Ant 7(HPUE)-Linearity Data for DSI 4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	21.00	22.60	Maximum Tune up Power (dBm)	24.00	26.00
Reported 1g SAR (W/kg)	0.921	0.903	Reported 1g SAR (W/kg)	0.976	0.955
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	79.69	78.79	Frame Averaged (mW)	159.00	172.38
Linearity SAR (W/kg)	0.911		Linearity SAR (W/kg)	1.058	
% deviation from expected linearity		-0.84%	% deviation from expected linearity		-9.75%
LTE Band 41_Ant 5(HPUE)-Linearity Data for DSI 5			LTE Band 41_Ant 5(HPUE)-Linearity Data for DSI 4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.30	25.90	Maximum Tune up Power (dBm)	23.30	24.90
Reported 1g SAR (W/kg)	0.144	0.152	Reported 1g SAR (W/kg)	0.802	0.766
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	170.37	168.46	Frame Averaged (mW)	135.33	133.81
Linearity SAR (W/kg)	0.142		Linearity SAR (W/kg)	0.793	
% deviation from expected linearity		6.76%	% deviation from expected linearity		-3.40%
LTE Band 41_Ant 0(HPUE)-Linearity Data for DSI 5			LTE Band 41_Ant 0(HPUE)-Linearity Data for DSI 4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	19.30	20.90	Maximum Tune up Power (dBm)	23.80	25.40
Reported 1g SAR (W/kg)	0.956	0.894	Reported 1g SAR (W/kg)	1.031	0.940
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	53.88	53.27	Frame Averaged (mW)	151.85	150.14
Linearity SAR (W/kg)	0.945		Linearity SAR (W/kg)	1.019	
% deviation from expected linearity		-5.42%	% deviation from expected linearity		-7.79%

Body-worn		
LTE Band 41_Ant 6(HPUE)-Linearity Data for DSI 4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	22.30	23.90
Reported 1g SAR (W/kg)	0.411	0.372
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	107.50	106.29
Linearity SAR (W/kg)	0.406	
% deviation from expected linearity		-8.46%
LTE Band 41_Ant 7(HPUE)-Linearity Data for DSI 4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	26.00
Reported 1g SAR (W/kg)	0.528	0.520
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	172.38
Linearity SAR (W/kg)	0.572	
% deviation from expected linearity		-9.16%
LTE Band 41_Ant 5(HPUE)-Linearity Data for DSI 4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.30	24.90
Reported 1g SAR (W/kg)	0.366	0.339
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	135.33	133.81
Linearity SAR (W/kg)	0.362	
% deviation from expected linearity		-6.32%
LTE Band 41_Ant 0(HPUE)-Linearity Data for DSI 4		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.80	25.40
Reported 1g SAR (W/kg)	0.488	0.438
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	151.85	150.14
Linearity SAR (W/kg)	0.483	
% deviation from expected linearity		-9.22%

16. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
2.	WWAN + 5GHz WLAN	Yes	Yes	Yes	Yes
3.	WWAN + 6GHz WLAN	Yes	Yes	Yes	Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	2.4GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
6.	5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
7.	6GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
8.	5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
9.	6GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
10.	5GHz WLAN + 2.4GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
11.	6GHz WLAN + 2.4GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
12.	WWAN + 2.4GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
13.	WWAN + 5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
14.	WWAN + 6GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
15.	WWAN + 5GHzWLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
16.	WWAN + 6GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
17.	WWAN +5GHz WLAN + 2.4GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
18.	WWAN +6GHz WLAN + 2.4GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
19.	WWAN + 2.4GHz WLAN+ NFC				Yes
20.	WWAN + 5GHz WLAN+ NFC				Yes
21.	WWAN + 6GHz WLAN+ NFC				Yes
22.	WWAN + Bluetooth+ NFC				Yes
23.	2.4GHz WLAN + Bluetooth+ NFC				Yes
24.	5GHz WLAN + Bluetooth+ NFC				Yes
25.	6GHz WLAN + Bluetooth+ NFC				Yes
26.	5GHz WLAN + 2.4GHz WLAN+ NFC				Yes
27.	6GHz WLAN + 2.4GHz WLAN+ NFC				Yes
28.	5GHz WLAN + 2.4GHz WLAN + Bluetooth+ NFC				Yes
29.	6GHz WLAN + 2.4GHz WLAN + Bluetooth+ NFC				Yes
30.	WWAN + 2.4GHz WLAN + Bluetooth+ NFC				Yes
31.	WWAN + 5GHz WLAN + Bluetooth+ NFC				Yes
32.	WWAN + 6GHz WLAN + Bluetooth+ NFC				Yes
33.	WWAN + 5GHzWLAN + 2.4GHz WLAN+ NFC				Yes
34.	WWAN + 6GHz WLAN + 2.4GHz WLAN+ NFC				Yes
35.	WWAN +5GHz WLAN + 2.4GHz WLAN + Bluetooth+ NFC				Yes
36.	WWAN +6GHz WLAN + 2.4GHz WLAN + Bluetooth+ NFC				Yes

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands and EN-DC combination.
3. EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
4. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation.
5. The equipment under test (EUT) contains the Qualcomm modems supporting 2G/3G/4G/5G technologies and WLAN/BT technologies. These modems are always enabled with Qualcomm Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure follows the FCC requirement. Smart Transmit algorithm controls the total RF exposure from all WWAN/WLAN/BT to not exceed FCC limit and each antenna group has controlled the total RF exposure from all transmitter to not exceed FCC limit. Therefore, in Part.1 report, it is evaluated whether the sum of the groups of each antenna does not exceed FCC

- limit or spatial separation is applied. In addition, each antenna needs to satisfy simultaneous transmission analysis with External radios (NFC) in this report at extremity exposure condition.
6. This device WLAN 2.4GHz and 6GHz VLP support hotspot operation and Bluetooth support tethering applications.
 7. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
 8. The Bluetooth can transmit in SISO mode only and they have no MIMO mode.
 9. According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
 10. According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
 11. According to the EUT characteristic, when WLAN 2.4GHz and Bluetooth share the same antenna path and cannot transmit simultaneously; when WLAN 2.4GHz and Bluetooth are located on different antennas, they can transmit simultaneously.
 12. According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
 13. NFC can transmit simultaneously with other Radios in extremity exposure condition.
 14. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
 15. For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
 16. The maximum SAR summation is calculated based on the same configuration and test position.
 17. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 18. Since the WPT will only operate on body condition, therefore, WPT transmit with WWAN/WLAN/BT only consider at hotspot / body-worn/extremity conditions, the further Sim-Tx analysis include in section 16.6.

16.1 Sub6 Antenna Groups

Qualcomm® Smart Transmit™ Plus of Smart Transmit (GEN2) Feature operates based on pre-defined sub6 antenna groups (AG). Sub6 Tx antennas in the device 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.

- 1) Case 1: Demonstrate that Sum of maximum reported SAR from each of the sub6 AGs and the reported normalized SAR values from radios outside Smart Transmit should be less than regulatory limits for each supported DSI. This condition must be demonstrated for all antenna combinations of sub6 AGs.
 - i. For a given DSI, obtain the highest *reported* SAR for each antenna out of all supported technologies and frequency bands. Obtain the maximum *reported* SAR for each AG by taking the maximum out of *reported* SAR for all antennas belonging to each AG.
 - ii. Demonstrate that the sum of maximum reported SAR (normalized to regulatory limit) from each of the sub6 AGs and the sum of reported SAR (normalized to regulatory limit) from all supported radios outside of Smart Transmit should be less than 1.0
- 2) Case 2: If the Case 1 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 SPLSR criteria (Section 4.3.2 (c) in FCC KDB 447498 D01 v06) for each exposure position under each supported DSI. For a given exposure position under a given DSI, prove all AG pairs, all ER pairs and all (AG, ER) pairs (if there are external radios outside Smart Transmit) in the configuration meet SPLSR.
- 3) Case 3: When One or more antenna(s) can be placed as shared antenna(s) among multiple AGs as described in this Section. Repeat the same procedure to check if the new antenna grouping scheme (using shared antenna) with all supported external radios meets Case 1 or Case 2 so that each AG in the new antenna grouping scheme can operate independently.
 - a) For antenna grouping, only Case 1 or Case 2 (not both) needs to be met for each exposure position of all supported DSIs under a given exposure category. To further clarify, only one of the two conditions (either Case 1 or Case 2) should be used for a given exposure position to demonstrate RF exposure is mutually exclusive among all antenna groups (including external radios). In other words, a combination of Case 1 and Case 2 CANNOT be used for a given exposure position, i.e., mutual exclusivity between AGs CANNOT be demonstrated by using Case 1 for some antenna combinations and using Case 2 for remaining antenna combinations.

- b) New antenna grouping analysis with one or more antenna(s) as a shared antenna (sAnt). AG0, AG1 and WLAN must be demonstrated to transmit independently with a shared antenna (sAnt) configured in AG0/AG1. The TER for simultaneous analysis for sub6 radios should be given by the sum of these RF exposures meets (i) and (ii) :
 - i. $\{ [\text{max.SAR.without.sAnt.AG0} + \text{max.SAR.without.sAnt.AG1}] + \text{WIFI/BT worst-case reported SAR} \} \leq 1.6$ (for 1g, or 4.0 for 10g).
 - ii. $\{ [\text{max.SAR.sAnt}] + \text{WIFI/BT worst-case reported SAR} \} \leq 1.6$ (for 1g, or 4.0 for 10g).
- c) For a given exposure position under a given DSI, prove all AG pairs, all ER pairs and all (AG, ER) pairs (if there are external radios outside Smart Transmit) in the configuration meet SPLSR.

This device supports two sub6 AG: AG0 and AG1, the detailed please refer to the below table:

Antenna Group 0 (AG0)	ANT4 & ANT6 & ANT10 & ANT12 & ANT13 & ANT15 & ANT11 & ANT0 & ANT7
Antenna Group 1 (AG1)	ANT5 & ANT1 & ANT0 & ANT7

Note: Ant0 and Ant7 as shared antennas (sAnt) among AG0 and AG1.

The conditions are verified through the following criterias:

- i) (SAR1 + SAR2 criteria): If SPLSR criteria is not used, then the highest reported SAR at *Plimit* for each antenna should be obtained out of all supported technologies and frequency bands for each DSI. Demonstrate that the sum of reported SAR of one antenna from each of the sub6 AGs and the sum of RF exposure from all supported radios outside of Smart Transmit should be less than the regulatory limit as given below for each DSI.
 - 1. Obtain the worst-case reported SAR for each antenna group (i.e., maximum *reported* SAR at *Plimit* out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure for each external radio, and demonstrate that the sum of these RF exposures meets: $\{ [\text{max.SAR.AG0} + \text{max.SAR.AG1}] + \text{WIFI/BT worst-case reported SAR} \} \leq 1.6$ (for 1g, or 4.0 for 10g). (WIFI/BT worst-case reported SAR is the worst SAR in all combinations of WIFI and BT simultaneous transmission)
- ii) (SPLSR criteria): For each antenna, obtain the highest reported SAR value at *Plimit* out of all supported technologies for each frequency band. Using these values, demonstrate for a given DSI that every antenna from one sub6 AG meets SPLSR criteria with every antenna in another sub6 AG for all frequency bands. This criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios as given below for each DSI:
 - a. SPLSR criteria should be met for all antenna pair combinations of AG0 and AG1. As it can be seen, these include all combinations of antenna groups, antennas, and frequency bands.
 - b. Obtain combined SAR per AG: Obtain the worst-case conservative combined SAR and its peak location for each AG.
 - c. Use the 'closest' peak location out of all antennas of AGj to evaluate SPLSR with other AGs in the configuration. Note, by 'closest', select the peak location out of all antennas (ϵ AGj) that is closest to the peak location of other AG where SPLSR is evaluated.
- iii) (combination of SPLSR & SAR1+SAR2 criteria): If SPLSR criteria for all the combinations of sub6 antenna groups in (i) is demonstrated to show that each AG is mutually exclusive from other AGs, and if the WIFI/BT antennas supported outside of Smart Transmit do not meet SPLSR criteria, then the condition in (ii) reduces to: $\{ \text{max.SAR.AG0} + \text{worst-case reported SAR} \} \leq 1.6$ and $\{ \text{max.SAR.AG1} + \text{worst-case reported SAR} \} \leq 1.6$ for compliance demonstration (for 1g, or 4.0 for 10g).

For summed SAR results and SPLSR detailed analysis, please refer to section 16.2/ 16.3 / 16.4 / 16.5 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

16.2 Head Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant 4	Ant 6	Ant 10	Ant 12	Ant 13	Ant 15	Ant 11	Ant 11+7	Ant 15+10	All Antenna MAX SAR 1g W/kg
Right Cheek	0.820	0.877	0.533	0.866	0.875	0.634	0.386	0.591	0.716	0.877
Right Tilted	0.692	1.187	0.402	0.656	1.188	0.800	0.504	0.388	0.836	1.188
Left Cheek	0.405	0.585	1.092	0.205	0.802	0.933	0.706	0.902	0.912	1.092
Left Tilted	0.441	0.793	0.931	0.193	0.938	1.183	1.090	0.630	1.041	1.183

<AG1 maximum reported SAR>:

Test Position	Ant 5	Ant 1	All Antenna MAX SAR 1g W/kg
Right Cheek	0.127	0.706	0.706
Right Tilted	0.066	0.386	0.386
Left Cheek	0.154	0.399	0.399
Left Tilted	0.042	0.179	0.179

<sAnt maximum reported SAR>:

Test Position	Ant 0	Ant 7	All Antenna MAX SAR 1g W/kg
Right Cheek	1.186	0.988	1.186
Right Tilted	0.377	0.134	0.377
Left Cheek	1.127	1.191	1.191
Left Tilted	0.149	0.341	0.341

<Simultaneous Transmission analysis of AG0 + AG1 Worse-case>:

Test Position	AG0	AG1	AG0+AG1 worse case
Right Cheek	0.877	0.706	1.58
Right Tilted	1.188	0.386	1.57
Left Cheek	1.092	0.399	1.49
Left Tilted	1.183	0.179	1.36

<N41 UL-MIMO>:

Test Position	Ant 5	Ant 6	Ant5+6
Right Cheek	0.127	0.831	0.96
Right Tilted	0.059	1.127	1.19
Left Cheek	0.154	0.585	0.74
Left Tilted	0.041	0.746	0.79

Test Position	Ant 5	Ant 7	Ant5+7
Right Cheek	0.127	0.929	1.06
Right Tilted	0.059	0.134	0.19
Left Cheek	0.154	0.880	1.03
Left Tilted	0.041	0.196	0.24

Test Position	Ant 0	Ant 6	Ant0+6
Right Cheek	0.641	0.831	1.47
Right Tilted	0.203	1.127	1.33
Left Cheek	0.371	0.585	0.96
Left Tilted	0.079	0.746	0.83

Test Position	Ant 0	Ant 7	Ant0+7
Right Cheek	0.641	0.929	1.57
Right Tilted	0.203	0.134	0.34
Left Cheek	0.371	0.880	1.25
Left Tilted	0.079	0.196	0.28

16.3 Hotspot Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant 4	Ant 6	Ant 10	Ant 12	Ant 13	Ant 15	Ant 11	Ant 11+7	Ant 15+10	All Antenna MAX SAR 1g W/kg
Front	0.366	0.376	0.402	0.539	0.259	0.234	0.353	0.350	0.247	0.539
Back	0.895	0.645	0.583	0.902	0.475	0.871	0.364	0.404	0.693	0.902
Left side	0.454	0.265	0.000	1.054	0.000	0.000	0.000	0.000	0.000	1.054
Right side	0.000	0.000	0.799	0.000	0.073	0.306	0.173	0.824	0.356	0.824
Top side	0.581	1.037	0.201	0.386	0.857	0.845	1.139	0.463	0.597	1.139
Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<AG1 maximum reported SAR>:

Test Position	Ant 5	Ant 1	All Antenna MAX SAR 1g W/kg
Front	0.372	0.444	0.444
Back	0.682	0.508	0.682
Left side	0.163	0.000	0.163
Right side	0.294	0.740	0.740
Top side	0.000	0.000	0.000
Bottom side	1.170	0.382	1.170

<sAnt maximum reported SAR>:

Test Position	Ant 0	Ant 7	All Antenna MAX SAR 1g W/kg
Front	0.496	0.514	0.514
Back	0.675	0.626	0.675
Left side	1.170	0.000	1.170
Right side	0.000	1.040	1.040
Top side	0.139	0.814	0.814
Bottom side	0.000	0.000	0.000

<Simultaneous Transmission analysis of AG0 + AG1 Worse-case>:

Test Position	AG0	AG1	AG0+AG1 worse case
Front	0.539	0.444	0.98
Back	0.902	0.682	1.58
Left side	1.054	0.163	1.22
Right side	0.824	0.740	1.56
Top side	1.139	0.000	1.14
Bottom side	0.000	1.170	1.17

<N41 UL-MIMO>:

Test Position	Ant 5	Ant 6	Ant5+6
Front	0.372	0.369	0.74
Back	0.682	0.645	1.33
Left side	0.122	0.162	0.28
Right side	0.294	0.000	0.29
Top side	0.000	1.034	1.03
Bottom side	1.066	0.000	1.07

Test Position	Ant 5	Ant 7	Ant5+7
Front	0.372	0.427	0.80
Back	0.682	0.481	1.16
Left side	0.122	0.000	0.12
Right side	0.294	0.842	1.14
Top side	0.000	0.090	0.09
Bottom side	1.066	0.000	1.07

Test Position	Ant 0	Ant 6	Ant0+6
Front	0.292	0.369	0.66
Back	0.391	0.645	1.04
Left side	0.683	0.162	0.85
Right side	0.000	0.000	0.00
Top side	0.139	1.034	1.17
Bottom side	0.000	0.000	0.00

Test Position	Ant 0	Ant 7	Ant0+7
Front	0.292	0.427	0.72
Back	0.391	0.481	0.87
Left side	0.683	0.000	0.68
Right side	0.000	0.842	0.84
Top side	0.139	0.090	0.23
Bottom side	0.000	0.000	0.00

16.4 Body-Worn Accessory Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant 4	Ant 6	Ant 10	Ant 12	Ant 13	Ant 15	Ant 11	Ant 11+7	Ant 15+10	All Antenna MAX SAR 1g W/kg
Front	0.366	0.376	0.402	0.539	0.259	0.234	0.353	0.350	0.285	0.539
Back	0.895	0.647	0.841	0.902	0.475	0.871	0.364	0.404	0.693	0.902

<AG1 maximum reported SAR>:

Test Position	Ant 5	Ant 1	All Antenna MAX SAR 1g W/kg
Front	0.372	0.444	0.444
Back	0.682	0.541	0.682

<sAnt maximum reported SAR>:

Test Position	Ant 0	Ant 7	All Antenna MAX SAR 1g W/kg
Front	0.496	0.514	0.514
Back	0.696	0.626	0.696

<Simultaneous Transmission analysis of AG0 + AG1 Worse-case>:

Test Position	AG0	AG1	AG0+AG1 worse case
Front	0.539	0.444	0.98
Back	0.902	0.682	1.58

<N41 UL-MIMO>:

Test Position	Ant 5	Ant 6	Ant5+6
Front	0.372	0.369	0.74
Back	0.682	0.645	1.33

Test Position	Ant 5	Ant 7	Ant5+7
Front	0.372	0.427	0.80
Back	0.682	0.481	1.16

Test Position	Ant 0	Ant 6	Ant0+6
Front	0.292	0.369	0.66
Back	0.391	0.645	1.04

Test Position	Ant 0	Ant 7	Ant0+7
Front	0.292	0.427	0.72
Back	0.391	0.481	0.87

16.5 Product specific 10g SAR Exposure Conditions

Remark:

- For WLAN2.4G/Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT+NFC:

<AG0 maximum reported SAR>:

Test Position	Ant 4	Ant 6	Ant 10	Ant 12	Ant 13	Ant 15	Ant 15+10	All Antenna MAX SAR 1g W/kg
Front			1.712			0.859	0.867	1.712
Back			1.276			0.582	0.585	1.276
Left side			0.000			0.000	0.000	0.000
Right side			2.782			0.312	1.596	2.782
Top side			0.368			1.848	2.288	2.288
Bottom side			0.000			0.000	0.000	0.000

<NFC maximum reported SAR>:

Test Position	NFC
Front	0.000
Back	0.015
Left side	0.000
Right side	0.000
Top side	0.000
Bottom side	0.000

<Simultaneous Transmission analysis of AG0 + AG1 + NFC Worse-case>:

Test Position	AG0	AG1	NFC	AG0+AG1+NFC worse case
Front	1.712	0.000	0.000	1.71
Back	1.276	0.000	0.015	1.29
Left side	0.000	0.000	0.000	0.00
Right side	2.782	0.000	0.000	2.78
Top side	2.288	0.000	0.000	2.29
Bottom side	0.000	0.000	0.000	0.00

<Simultaneous Transmission analysis of sAnt + NFC Worse-case>:

Test Position	Share Ant	NFC	Share + NFC worse case
Front	0.000	0.000	0.000
Back	0.000	0.015	0.015
Left side	0.000	0.000	0.000
Right side	0.000	0.000	0.000
Top side	0.000	0.000	0.000
Bottom side	0.000	0.000	0.000

16.6 Total Exposure Ratio

<Total exposure ratio>

Max 1g SAR	WPT SAR	TER
(W/kg)	(W/kg)	Reported SAR/1.6 + WPT SAR /1.6 Summation
1.58	0.000000291	0.99

Max 10g SAR	WPT SAR	TER
(W/kg)	(W/kg)	Reported SAR/4.0 + WPT SAR /4.0 Summation
2.78	0.000000183	0.70

Remark: WPT SAR value is from another WPT SAR report which is submitted separately.

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17. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Uncertainty Budget According to IEC/IEEE 62209-1528 (Frequency band: 4 MHz - 10 GHz range)							
Error Description	Uncert. Value (±%)	Prob. Dist.	Div.	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System errors							
Probe calibration	18.6	N	2	1	1	9.3	9.3
Probe calibration drift	1.7	R	1.732	1	1	1.0	1.0
Probe linearity and detection Limit	4.7	R	1.732	1	1	2.7	2.7
Broadband signal	2.8	R	1.732	1	1	1.6	1.6
Probe isotropy	7.6	R	1.732	1	1	4.4	4.4
Other probe and data acquisition errors	2.4	N	1	1	1	2.4	2.4
RF ambient and noise	1.8	N	1	1	1	1.8	1.8
Probe positioning errors	0.006	N	1	0.5	0.5	0.0	0.0
Data processing errors	4.0	N	1	1	1	4.0	4.0
Phantom and Device Errors							
Measurement of phantom conductivity (σ)	2.5	N	1	0.78	0.71	2.0	1.8
Temperature effects (medium)	5.4	R	1.732	0.78	0.71	2.4	2.2
Shell permittivity	14.0	R	1.732	0.5	0.5	4.0	4.0
Distance between the radiating element of the DUT and the phantom medium	2.0	N	1	2	2	4.0	4.0
Repeatability of positioning the DUT or source against the phantom	1.0	N	1	1	1	1.0	1.0
Device holder effects	3.6	N	1	1	1	3.6	3.6
Effect of operating mode on probe sensitivity	2.4	R	1.732	1	1	1.4	1.4
Time-average SAR	1.7	R	1.732	1	1	1.0	1.0
Variation in SAR due to drift in output of DUT	2.5	N	1	1	1	2.5	2.5
Validation antenna uncertainty (validation measurement only)	0.0	N	1	1	1	0.0	0.0
Uncertainty in accepted power (validation measurement only)	0.0	N	1	1	1	0.0	0.0
Correction to the SAR results							
Phantom deviation from target (ϵ' , σ)	1.9	N	1	1	0.84	1.9	1.6
SAR scaling	0.0	R	1.732	1	1	0.0	0.0
Combined Std. Uncertainty						14.5%	14.4%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.8%

SAR Uncertainty Budget for frequency range 4MHz to 10GHz

cDASY6 Module mmWave Uncertainty Budget Evaluation Distances to the Antennas > $\lambda/2\pi$ In Compliance with IEC TR 63170					
Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Uncertainty terms dependent on the measurement system					
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependence	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					2.68
PD Uncertainty Budget					

18. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [9] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [10] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [11] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [12] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [13] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [14] IEC/IEEE 62209-1528:2020, "Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)", Oct. 2020
- [15] IEC 62479:2010 Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
- [16] IEC TR 63170: 2018 Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz
- [17] SPEAG DASY System Handbook
- [18] SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz)

Appendixes

Please refer to separated files for the following appendixes

Appendix A. Plots of System Performance Check

Appendix B. Plots of High SAR and PD Measurement

Appendix C. DASY Calibration Certificate

Appendix D. Test Setup Photos

Appendix E. Conducted RF Output Power Table

Appendix F. Power measurement connection diagram and CA Conducted RF Output Power Table

Appendix G. Power reduction mechanism verification

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