



Reduced Power Mode for DSI 2

<n2 Ant.0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	17.04	17.30	17.06		
20	PI/2 BPSK	1	53	16.90	17.01	17.11	18.6	0.0
20	PI/2 BPSK	1	104	16.61	16.68	16.72		
20	PI/2 BPSK	50	0	17.05	17.23	17.03		
20	PI/2 BPSK	50	28	16.68	16.80	16.90	18.6	0.0
20	PI/2 BPSK	50	56	16.63	16.68	16.66	18.6	0.0
20	PI/2 BPSK	100	0	16.81	16.83	17.06		
20	QPSK	1	1	17.04	17.36	17.25		
20	QPSK	1	53	16.98	17.04	17.10	18.6	0.0
20	QPSK	1	104	16.61	16.84	16.83		
20	QPSK	50	0	16.93	17.30	17.04		
20	QPSK	50	28	16.84	17.32	16.97	18.6	0.0
20	QPSK	50	56	16.69	16.80	16.67	18.6	0.0
20	QPSK	100	0	16.86	16.92	16.86		
20	16QAM	1	1	16.73	16.68	16.79		
20	64QAM	1	1	16.64	16.66	16.64	18.6	0.0
20	256QAM	1	1	16.65	17.20	16.72	18.6	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	40	16.89	17.24	17.12	18.6	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	26	16.79	17.11	17.09	18.6	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	13	16.75	17.21	17.15	18.6	0.0

<n5 Ant.0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.84	22.95	22.90	24.0	0.0
20	PI/2 BPSK	1	53	22.80	22.86	22.74		
20	PI/2 BPSK	1	104	22.72	22.83	22.75		
20	PI/2 BPSK	50	0	22.32	22.47	22.40	23.5	0.5
20	PI/2 BPSK	50	28	22.85	22.98	22.90	24.0	0.0
20	PI/2 BPSK	50	56	22.32	22.39	22.26	23.5	0.5
20	PI/2 BPSK	100	0	22.35	22.50	22.37		
20	QPSK	1	1	23.01	23.03	22.96	24.0	0.0
20	QPSK	1	53	22.78	22.91	22.85		
20	QPSK	1	104	22.74	22.80	22.72		
20	QPSK	50	0	21.90	21.98	21.90	23.0	1.0
20	QPSK	50	28	22.79	22.91	22.79	24.0	0.0
20	QPSK	50	56	21.74	21.86	21.81	23.0	1.0
20	QPSK	100	0	21.80	21.93	21.86		
20	16QAM	1	1	22.22	22.35	22.29	23.0	1.0
20	64QAM	1	1	20.77	20.82	20.69	21.5	2.5
20	256QAM	1	1	18.53	18.62	18.52	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	40	22.88	22.89	22.84	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	26	22.88	22.91	22.84	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	13	22.90	22.95	22.90	24.0	0.0

<n7 Ant.2 SA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	21.4	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	19.97	20.11	20.03	21.4	0.0
50	PI/2 BPSK	1	135	19.97	20.10	19.98		
50	PI/2 BPSK	1	268	20.02	20.06	19.99		
50	PI/2 BPSK	135	0	19.92	20.05	19.98	21.4	0.0
50	PI/2 BPSK	135	68	19.94	20.07	19.97	21.4	0.0
50	PI/2 BPSK	135	135	19.90	20.00	19.93	21.4	0.0
50	PI/2 BPSK	270	0	19.97	20.03	19.91		
50	QPSK	1	1	20.11	20.18	20.04	21.4	0.0
50	QPSK	1	135	19.98	20.10	19.96		
50	QPSK	1	268	20.02	20.11	20.04		
50	QPSK	135	0	19.94	20.08	20.01	21.4	0.0
50	QPSK	135	68	20.00	20.11	20.05	21.4	0.0
50	QPSK	135	135	19.99	20.05	19.92	21.4	0.0
50	QPSK	270	0	20.02	20.10	20.04		
50	16QAM	1	1	19.75	19.89	19.81	21.4	0.0
50	64QAM	1	1	19.82	19.84	19.78	21.4	0.0
50	256QAM	1	1	18.81	18.93	18.83	19.5	1.9
Channel				504000	507000	510000	21.4	0.0
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	19.97	20.05	19.94	21.4	0.0
Channel				503000	507000	511000	21.4	0.0
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	20.01	20.06	19.90	21.4	0.0
Channel				502500	507000	511500	21.4	0.0
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	20.05	20.11	19.92	21.4	0.0
Channel				502000	507000	512000	21.4	0.0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	19.99	20.08	19.99	21.4	0.0
Channel				501500	507000	512500	21.4	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.05	20.09	19.91	21.4	0.0
Channel				501000	507000	513000	21.4	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.02	20.06	19.93	21.4	0.0
Channel				500500	507000	513500	21.4	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	19.99	20.04	19.94	21.4	0.0



<n7 Ant.2 NSA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000	21.4	0.0
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	19.85	20.03	19.94		
20	PI/2 BPSK	1	53	19.84	20.02	19.93	21.4	0.0
20	PI/2 BPSK	1	104	19.97	19.93	19.94		
20	PI/2 BPSK	50	0	19.82	19.91	19.86		
20	PI/2 BPSK	50	28	19.79	20.02	19.86	21.4	0.0
20	PI/2 BPSK	50	56	19.86	19.93	19.87	21.4	0.0
20	PI/2 BPSK	100	0	19.86	19.92	19.86		
20	QPSK	1	1	19.96	20.06	19.96		
20	QPSK	1	53	19.87	20.03	19.80	21.4	0.0
20	QPSK	1	104	19.93	20.02	19.89		
20	QPSK	50	0	19.81	20.02	19.96		
20	QPSK	50	28	19.85	20.05	19.93	21.4	0.0
20	QPSK	50	56	19.90	19.98	19.84	21.4	0.0
20	QPSK	100	0	19.97	19.98	19.88		
20	16QAM	1	1	19.64	19.80	19.72		
20	64QAM	1	1	19.73	19.69	19.69	21.4	0.0
20	256QAM	1	1	18.76	18.82	18.78	19.5	1.9
Channel				501500	507000	512500	21.4	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	19.85	19.98	19.88	21.4	0.0
Channel				501000	507000	513000	21.4	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	19.81	20.01	19.81	21.4	0.0
Channel				500500	507000	513500	21.4	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	19.81	20.00	19.88	21.4	0.0



<n66 Ant.0 SA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	22.9	0.0
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	21.50	21.62	21.43		
20	PI/2 BPSK	1	53	21.43	21.60	21.36	22.9	0.0
20	PI/2 BPSK	1	104	21.58	21.71	21.44		
20	PI/2 BPSK	50	0	21.06	21.17	21.01		
20	PI/2 BPSK	50	28	21.42	21.59	21.57	22.9	0.0
20	PI/2 BPSK	50	56	21.02	21.00	21.04	22.9	0.0
20	PI/2 BPSK	100	0	21.08	21.07	20.98		
20	QPSK	1	1	21.69	21.75	21.65		
20	QPSK	1	53	21.60	21.57	21.43	22.9	0.0
20	QPSK	1	104	21.48	21.46	21.54		
20	QPSK	50	0	21.13	21.18	21.04		
20	QPSK	50	28	21.47	21.51	21.45	22.9	0.0
20	QPSK	50	56	21.02	21.18	20.97	22.9	0.0
20	QPSK	100	0	20.95	21.04	21.02		
20	16QAM	1	1	21.13	20.95	21.04	22.9	0.0
20	64QAM	1	1	19.75	19.79	19.73	21.5	1.4
20	256QAM	1	1	17.73	17.69	17.68	19.5	3.4
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.65	21.69	21.53	22.9	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.60	21.61	21.60	22.9	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.54	21.60	21.59	22.9	0.0



<n66 Ant.0 NSA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349000	353000	22.9	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	21.35	21.48	21.39		
30	PI/2 BPSK	1	80	21.32	21.48	21.31	22.9	0.0
30	PI/2 BPSK	1	158	21.48	21.59	21.35		
30	PI/2 BPSK	80	0	20.98	21.07	20.92		
30	PI/2 BPSK	80	40	21.34	21.46	21.47	22.9	0.0
30	PI/2 BPSK	80	80	20.93	20.90	20.94	22.9	0.0
30	PI/2 BPSK	160	0	20.93	20.96	20.93		
30	QPSK	1	1	21.62	21.63	21.53		
30	QPSK	1	80	21.45	21.47	21.35	22.9	0.0
30	QPSK	1	158	21.35	21.40	21.47		
30	QPSK	80	0	21.04	21.06	20.94		
30	QPSK	80	40	21.37	21.39	21.36	22.9	0.0
30	QPSK	80	80	20.90	21.11	20.91	22.9	0.0
30	QPSK	160	0	20.90	20.97	20.94		
30	16QAM	1	1	21.05	20.91	20.90		
30	64QAM	1	1	19.62	19.66	19.62	21.5	1.4
30	256QAM	1	1	17.58	17.57	17.53	19.5	3.4
Channel				344000	349000	354000	22.9	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	80	21.41	21.55	21.30	22.9	0.0
Channel				343500	349000	354500	22.9	0.0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	53	21.32	21.44	21.33	22.9	0.0
Channel				343000	349000	355000	22.9	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	40	21.48	21.50	21.34	22.9	0.0
Channel				342500	349000	355500	22.9	0.0
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	26	21.51	21.54	21.23	22.9	0.0



<n38 Ant.2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	20.7	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	19.42	19.49	19.40		
40	PI/2 BPSK	1	53	19.30	19.41	19.30	20.7	0.0
40	PI/2 BPSK	1	104	19.33	19.46	19.38		
40	PI/2 BPSK	50	0	19.20	19.25	19.20		
40	PI/2 BPSK	50	28	19.38	19.47	19.32	20.7	0.0
40	PI/2 BPSK	50	56	19.24	19.37	19.29	20.7	0.0
40	PI/2 BPSK	100	0	19.20	19.34	19.31		
40	QPSK	1	1	19.47	19.52	19.39		
40	QPSK	1	53	19.31	19.41	19.30	20.7	0.0
40	QPSK	1	104	19.42	19.47	19.43		
40	QPSK	50	0	19.23	19.37	19.28		
40	QPSK	50	28	19.31	19.45	19.37	20.7	0.0
40	QPSK	50	56	19.38	19.41	19.27	20.7	0.0
40	QPSK	100	0	19.27	19.37	19.24		
40	16QAM	1	1	19.36	19.44	19.39		
40	64QAM	1	1	19.25	19.35	19.32	20.7	0.0
40	256QAM	1	1	18.96	19.07	18.97	19.5	1.2
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	19.33	19.37	19.35	20.7	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	19.33	19.42	19.25	20.7	0.0



<n41 Ant.1 PC3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.20	19.27	19.14		
100	PI/2 BPSK	1	137	19.72	19.76	19.58	21.0	0.0
100	PI/2 BPSK	1	271	19.88	20.02	19.94		
100	PI/2 BPSK	135	0	19.64	19.71	19.64		
100	PI/2 BPSK	135	69	19.81	19.91	19.82	21.0	0.0
100	PI/2 BPSK	135	138	19.97	19.78	20.03		
100	PI/2 BPSK	270	0	19.58	19.64	19.52		
100	QPSK	1	1	19.89	20.19	19.87	21.0	0.0
100	QPSK	1	137	19.97	20.07	20.03		
100	QPSK	1	271	19.90	19.92	19.95		
100	QPSK	135	0	19.53	19.65	19.49	21.0	0.0
100	QPSK	135	69	19.74	20.15	19.64		
100	QPSK	135	138	19.78	19.86	19.73		
100	QPSK	270	0	19.63	19.68	19.60	21.0	0.0
100	16QAM	1	1	19.47	19.65	19.59		
100	64QAM	1	1	19.95	20.08	19.96		
100	256QAM	1	1	19.76	19.94	19.79	21.0	0.0
Channel				508200	518598	528996	21.0	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	19.66	19.79	19.88		
Channel				507204	518598	529998	21.0	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	109	19.78	19.90	19.77		
Channel				506202	518598	531000	21.0	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	95	19.81	19.97	19.87		
Channel				505200	518598	531996	21.0	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	81	19.81	19.79	19.83		
Channel				504204	518598	532998	21.0	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	19.76	19.87	19.82		
Channel				503202	518598	534000	21.0	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	19.86	19.78	19.72		
Channel				502200	518598	534996	21.0	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	39	19.86	19.94	19.73		
Channel				501204	518598	535998	21.0	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	19.79	19.87	19.72		



<n41 Ant.2 PC2&3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	20.7	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.42	19.48	19.40		
100	PI/2 BPSK	1	137	19.29	19.43	19.33	20.7	0.0
100	PI/2 BPSK	1	271	19.39	19.43	19.35		
100	PI/2 BPSK	135	0	19.19	19.24	19.20		
100	PI/2 BPSK	135	69	19.30	19.43	19.29	20.7	0.0
100	PI/2 BPSK	135	138	19.29	19.34	19.22	20.7	0.0
100	PI/2 BPSK	270	0	19.33	19.40	19.36		
100	QPSK	1	1	19.41	19.55	19.52		
100	QPSK	1	137	19.38	19.45	19.30	20.7	0.0
100	QPSK	1	271	19.40	19.45	19.41		
100	QPSK	135	0	19.27	19.35	19.22		
100	QPSK	135	69	19.34	19.48	19.34	20.7	0.0
100	QPSK	135	138	19.39	19.45	19.36	20.7	0.0
100	QPSK	270	0	19.22	19.32	19.17		
100	16QAM	1	1	19.34	19.45	19.42		
100	64QAM	1	1	19.26	19.40	19.36	20.7	0.0
100	256QAM	1	1	19.36	19.49	19.40	19.5	1.2
Channel				508200	518598	528996	20.7	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.37	19.50	19.44		
Channel				507204	518598	529998	20.7	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.31	19.45	19.44		
Channel				506202	518598	531000	20.7	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.29	19.42	19.42		
Channel				505200	518598	531996	20.7	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.36	19.48	19.42		
Channel				504204	518598	532998	20.7	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.27	19.47	19.49		
Channel				503202	518598	534000	20.7	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.33	19.45	19.42		
Channel				502200	518598	534996	20.7	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.28	19.49	19.40		
Channel				501204	518598	535998	20.7	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.33	19.40	19.45		



<n41 Ant.4 PC3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.25	19.42	19.27		
100	PI/2 BPSK	1	137	19.40	19.57	19.50		
100	PI/2 BPSK	1	271	20.09	20.11	20.01	21.0	0.0
100	PI/2 BPSK	135	0	19.36	19.44	19.27		
100	PI/2 BPSK	135	69	19.66	19.75	19.70		
100	PI/2 BPSK	135	138	20.15	20.17	20.04		
100	PI/2 BPSK	270	0	19.76	19.92	19.86	21.0	0.0
100	QPSK	1	1	20.10	20.21	20.01		
100	QPSK	1	137	20.05	20.12	20.05		
100	QPSK	1	271	20.19	20.17	20.08		
100	QPSK	135	0	19.60	19.69	19.60	21.0	0.0
100	QPSK	135	69	19.83	20.18	19.93		
100	QPSK	135	138	20.15	20.07	20.08		
100	QPSK	270	0	20.07	20.16	20.11		
100	16QAM	1	1	19.35	19.54	19.39	21.0	0.0
100	64QAM	1	1	20.13	20.02	20.09	21.0	0.0
100	256QAM	1	1	20.08	20.13	20.05	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	19.57	20.08	19.74	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	109	19.54	20.08	19.74	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	95	19.60	20.12	19.70	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	81	19.54	20.15	19.81	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	19.58	20.18	19.85	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	19.65	20.18	19.78	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	39	19.54	20.13	19.70	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	19.69	20.10	19.80	21.0	0.0



<n41 Ant.6 PC3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.88	20.18	20.07		
100	PI/2 BPSK	1	137	19.60	19.68	19.55	21.0	0.0
100	PI/2 BPSK	1	271	20.55	20.55	20.45		
100	PI/2 BPSK	135	0	19.69	19.98	19.80		
100	PI/2 BPSK	135	69	19.74	19.84	19.58	21.0	0.0
100	PI/2 BPSK	135	138	19.94	20.23	20.06		
100	PI/2 BPSK	270	0	19.96	20.11	19.98		
100	QPSK	1	1	20.25	20.57	20.33	21.0	0.0
100	QPSK	1	137	19.80	20.02	19.90		
100	QPSK	1	271	20.32	20.48	20.42		
100	QPSK	135	0	20.01	20.11	19.97	21.0	0.0
100	QPSK	135	69	19.74	20.14	19.99		
100	QPSK	135	138	20.07	20.04	20.12		
100	QPSK	270	0	19.97	20.01	19.96	21.0	0.0
100	16QAM	1	1	19.95	20.12	19.91		
100	64QAM	1	1	20.16	20.43	20.15		
100	256QAM	1	1	19.60	19.90	19.74	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	19.55	19.72	19.53	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	109	19.48	19.74	19.45	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	95	19.56	19.66	19.52	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	81	19.56	19.62	19.38	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	19.62	19.83	19.42	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	19.61	19.73	19.38	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	39	19.56	19.69	19.54	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	19.49	19.65	19.39	21.0	0.0



<n77Ant.1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	20.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.69	18.83	18.68		
100	PI/2 BPSK	1	137	18.83	18.91	18.82	20.0	0.0
100	PI/2 BPSK	1	271	18.73	19.02	18.93		
100	PI/2 BPSK	135	0	18.45	18.67	18.44		
100	PI/2 BPSK	135	69	18.72	18.98	18.83	20.0	0.0
100	PI/2 BPSK	135	138	18.42	18.70	18.50	20.0	0.0
100	PI/2 BPSK	270	0	18.65	18.74	18.50		
100	QPSK	1	1	18.97	19.28	18.90		
100	QPSK	1	137	18.91	19.16	19.03	20.0	0.0
100	QPSK	1	271	18.99	19.26	19.09		
100	QPSK	135	0	18.64	18.84	18.64		
100	QPSK	135	69	18.92	19.04	18.91	20.0	0.0
100	QPSK	135	138	18.62	18.78	18.69	20.0	0.0
100	QPSK	270	0	18.25	18.46	18.27		
100	16QAM	1	1	18.36	18.65	18.49	20.0	0.0
100	64QAM	1	1	17.70	17.97	17.83	20.0	0.0
100	256QAM	1	1	17.15	17.29	17.06	19.5	0.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	18.81	18.85	18.80	20.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	18.61	18.83	18.72	20.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	18.71	18.76	18.81	20.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	18.74	18.88	18.67	20.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	18.74	18.94	18.71	20.0	0.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		20.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.62		20.0	0.0
100	PI/2 BPSK	1	137		18.19			
100	PI/2 BPSK	1	271		18.14			
100	PI/2 BPSK	135	0		18.54		20.0	0.0
100	PI/2 BPSK	135	69		18.43		20.0	0.0
100	PI/2 BPSK	135	138		18.12		20.0	0.0
100	PI/2 BPSK	270	0		18.41			
100	QPSK	1	1		18.71		20.0	0.0
100	QPSK	1	137		18.29			
100	QPSK	1	271		18.07			
100	QPSK	135	0		18.41		20.0	0.0
100	QPSK	135	69		18.52		20.0	0.0
100	QPSK	135	138		18.12		20.0	0.0
100	QPSK	270	0		18.39			
100	16QAM	1	1		18.47		20.0	0.0
100	64QAM	1	1		18.52'		20.0	0.0
100	256QAM	1	1		18.03		19.5	0.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	18.17	18.21	18.32	20.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	18.21	18.29	18.22	20.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	18.13	18.23	18.20	20.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	18.19	18.19	18.32	20.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	18.16	18.39	18.37	20.0	0.0



<n77Ant.3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	24.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	23.29	23.34	23.09		
100	PI/2 BPSK	1	137	22.73	22.83	22.69	23.5	0.5
100	PI/2 BPSK	1	271	22.90	22.95	22.78		
100	PI/2 BPSK	135	0	22.71	23.04	22.80		
100	PI/2 BPSK	135	69	22.86	23.12	23.10	24.0	0.0
100	PI/2 BPSK	135	138	22.49	22.79	22.71		
100	PI/2 BPSK	270	0	21.95	22.27	22.05		
100	QPSK	1	1	23.25	23.47	23.13	24.0	0.0
100	QPSK	1	137	23.07	23.15	23.01		
100	QPSK	1	271	23.19	23.31	23.07		
100	QPSK	135	0	22.05	22.39	22.00	23.0	1.0
100	QPSK	135	69	23.44	23.46	23.28		
100	QPSK	135	138	22.40	22.48	22.36		
100	QPSK	270	0	22.35	22.53	22.31	23.0	1.0
100	16QAM	1	1	22.15	22.52	22.48		
100	64QAM	1	1	20.91	21.12	20.84		
100	256QAM	1	1	18.76	19.06	19.02	19.5	4.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	23.21	23.31	23.17	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	23.19	23.32	23.19	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	23.23	23.37	23.13	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	23.19	23.21	23.06	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	23.15	23.16	23.04	24.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		23.10			
100	PI/2 BPSK	1	137		22.70		23.5	0.5
100	PI/2 BPSK	1	271		22.57			
100	PI/2 BPSK	135	0		22.74			
100	PI/2 BPSK	135	69		22.73		23.5	0.5
100	PI/2 BPSK	135	138		22.42			
100	PI/2 BPSK	270	0		21.94			
100	QPSK	1	1		23.40		24.0	0.0
100	QPSK	1	137		22.90			
100	QPSK	1	271		23.23			
100	QPSK	135	0		22.10		23.0	1.0
100	QPSK	135	69		23.25			
100	QPSK	135	138		22.29			
100	QPSK	270	0		22.43		23.0	1.0
100	16QAM	1	1		22.27			
100	64QAM	1	1		20.89			
100	256QAM	1	1		19.05		19.5	4.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	22.62	22.61	22.45	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	22.55	22.59	22.38	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	22.40	22.52	22.39	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	22.44	22.56	22.47	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	22.46	22.62	22.35	24.0	0.0



<n77Ant.4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	20.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.52	19.68	19.51		
100	PI/2 BPSK	1	137	18.89	19.03	18.94	20.0	0.0
100	PI/2 BPSK	1	271	17.91	18.15	17.84		
100	PI/2 BPSK	135	0	19.03	19.28	19.12		
100	PI/2 BPSK	135	69	19.02	19.16	18.86	20.0	0.0
100	PI/2 BPSK	135	138	18.19	18.43	18.21	20.0	0.0
100	PI/2 BPSK	270	0	18.86	18.99	18.68		
100	QPSK	1	1	19.55	19.75	19.46		
100	QPSK	1	137	19.38	19.63	19.45	20.0	0.0
100	QPSK	1	271	18.34	18.61	18.46		
100	QPSK	135	0	19.27	19.36	19.10		
100	QPSK	135	69	19.51	19.65	19.35	20.0	0.0
100	QPSK	135	138	18.24	18.54	18.45	20.0	0.0
100	QPSK	270	0	18.52	18.71	18.49		
100	16QAM	1	1	18.81	18.95	18.71	20.0	0.0
100	64QAM	1	1	18.18	18.28	18.02	20.0	0.0
100	256QAM	1	1	17.81	18.11	18.01	19.5	0.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	19.14	19.04	18.84	20.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	18.97	19.10	18.86	20.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	19.15	19.28	18.88	20.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	19.12	19.22	18.97	20.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	19.14	19.15	18.96	20.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		20.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.19		20.0	0.0
100	PI/2 BPSK	1	137		18.91			
100	PI/2 BPSK	1	271		19.01			
100	PI/2 BPSK	135	0		19.14		20.0	0.0
100	PI/2 BPSK	135	69		19.05		20.0	0.0
100	PI/2 BPSK	135	138		18.87		20.0	0.0
100	PI/2 BPSK	270	0		19.03			
100	QPSK	1	1		19.30		20.0	0.0
100	QPSK	1	137		18.97			
100	QPSK	1	271		18.84			
100	QPSK	135	0		18.99		20.0	0.0
100	QPSK	135	69		19.15		20.0	0.0
100	QPSK	135	138		18.83		20.0	0.0
100	QPSK	270	0		19.02			
100	16QAM	1	1		18.86		20.0	0.0
100	64QAM	1	1		19.13		20.0	0.0
100	256QAM	1	1		18.56		19.5	0.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	18.62	18.52	18.46	20.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	18.66	18.49	18.40	20.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	18.49	18.41	18.38	20.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	18.47	18.38	18.38	20.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	18.44	18.45	18.58	20.0	0.0



<n77Ant.5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	20.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.97	19.17	18.89		
100	PI/2 BPSK	1	137	18.57	18.73	18.61	20.0	0.0
100	PI/2 BPSK	1	271	17.93	18.17	17.97		
100	PI/2 BPSK	135	0	18.46	18.76	18.49		
100	PI/2 BPSK	135	69	18.62	18.87	18.58	20.0	0.0
100	PI/2 BPSK	135	138	18.16	18.25	18.17	20.0	0.0
100	PI/2 BPSK	270	0	18.43	18.63	18.34		
100	QPSK	1	1	19.11	19.31	19.13		
100	QPSK	1	137	18.97	19.21	18.99	20.0	0.0
100	QPSK	1	271	18.49	18.60	18.45		
100	QPSK	135	0	18.92	19.04	18.98		
100	QPSK	135	69	18.70	19.12	18.87	20.0	0.0
100	QPSK	135	138	18.09	18.35	18.18	20.0	0.0
100	QPSK	270	0	18.17	18.29	18.14		
100	16QAM	1	1	18.09	18.25	18.11	20.0	0.0
100	64QAM	1	1	18.24	18.48	18.32	20.0	0.0
100	256QAM	1	1	17.69	17.81	17.72	19.5	0.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	18.38	18.72	18.73	20.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	18.56	18.80	18.56	20.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	18.60	18.79	18.58	20.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	18.43	18.81	18.79	20.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	18.42	18.84	18.77	20.0	0.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		20.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.33		20.0	0.0
100	PI/2 BPSK	1	137		19.34			
100	PI/2 BPSK	1	271		19.31			
100	PI/2 BPSK	135	0		19.33		20.0	0.0
100	PI/2 BPSK	135	69		19.38		20.0	0.0
100	PI/2 BPSK	135	138		19.27		20.0	0.0
100	PI/2 BPSK	270	0		19.38			
100	QPSK	1	1		19.41		20.0	0.0
100	QPSK	1	137		19.36			
100	QPSK	1	271		19.35			
100	QPSK	135	0		19.38		20.0	0.0
100	QPSK	135	69		19.39		20.0	0.0
100	QPSK	135	138		19.29		20.0	0.0
100	QPSK	270	0		19.35			
100	16QAM	1	1		19.16		20.0	0.0
100	64QAM	1	1		19.37		20.0	0.0
100	256QAM	1	1		18.55		19.5	0.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	19.25	19.11	19.20	20.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	19.19	18.97	19.23	20.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	19.30	19.02	19.26	20.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	19.30	19.10	19.08	20.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	19.16	18.92	19.09	20.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.03		21.0	0.0
100	PI/2 BPSK	1	137		19.23			
100	PI/2 BPSK	1	271		19.26			
100	PI/2 BPSK	135	0		18.87		21.0	0.0
100	PI/2 BPSK	135	69		19.15		21.0	0.0
100	PI/2 BPSK	135	138		18.98		21.0	0.0
100	PI/2 BPSK	270	0		18.87			
100	QPSK	1	1		19.43		21.0	0.0
100	QPSK	1	137		19.25			
100	QPSK	1	271		19.39			
100	QPSK	135	0		18.89		21.0	0.0
100	QPSK	135	69		19.12		21.0	0.0
100	QPSK	135	138		18.98		21.0	0.0
100	QPSK	270	0		19.02			
100	16QAM	1	1		18.72		21.0	0.0
100	64QAM	1	1		17.71		21.0	0.0
100	256QAM	1	1		17.16		19.5	1.5
Channel				649668	650000	650334	21.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	19.26	19.32	19.34	21.0	0.0
Channel				649334	650000	650668	21.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	19.21	19.28	19.29	21.0	0.0
Channel				649000	650000	651000	21.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	19.24	19.31	19.31	21.0	0.0
Channel				648668	650000	651334	21.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	19.28	19.26	19.29	21.0	0.0
Channel				648334	650000	651668	21.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	19.28	19.29	19.33	21.0	0.0
Channel				648000	650000	652000	21.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	19.27	19.31	19.34	21.0	0.0
Channel				647668	650000	652334	21.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	19.21	19.27	19.31	21.0	0.0
Channel				647334	650000	652668	21.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	19.28	19.25	19.31	21.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334	21.0	0.0
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1		19.21		21.0	0.0
100	PI/2 BPSK	1	137		19.11			
100	PI/2 BPSK	1	271		19.33			
100	PI/2 BPSK	135	0		19.01		21.0	0.0
100	PI/2 BPSK	135	69		19.16		21.0	0.0
100	PI/2 BPSK	135	138		19.01		21.0	0.0
100	PI/2 BPSK	270	0		19.03			
100	QPSK	1	1		19.55		21.0	0.0
100	QPSK	1	137		19.14			
100	QPSK	1	271		19.36			
100	QPSK	135	0		19.01		21.0	0.0
100	QPSK	135	69		19.52		21.0	0.0
100	QPSK	135	138		19.37		21.0	0.0
100	QPSK	270	0		18.89			
100	16QAM	1	1		18.91		21.0	0.0
100	64QAM	1	1		17.69		21.0	0.0
100	256QAM	1	1		17.38		19.5	1.5
Channel				633000	633334	633668	21.0	0.0
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	19.27	19.31	19.34	21.0	0.0
Channel				632668	633334	634000	21.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	19.28	19.26	19.29	21.0	0.0
Channel				632334	633334	634334	21.0	0.0
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	19.21	19.28	19.29	21.0	0.0
Channel				632000	633334	634668	21.0	0.0
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	19.27	19.31	19.34	21.0	0.0
Channel				631668	633334	635000	21.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	19.21	19.28	19.29	21.0	0.0
Channel				631334	633334	635334	21.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	19.28	19.26	19.29	21.0	0.0
Channel				631000	633334	635668	21.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	19.21	19.27	19.31	21.0	0.0
Channel				630668	633334	636000	21.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	19.26	19.32	19.34	21.0	0.0



<n78 Ant.3 PC2&3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	23.7	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.29		23.7	0.0
100	PI/2 BPSK	1	137		22.26			
100	PI/2 BPSK	1	271		22.22			
100	PI/2 BPSK	135	0		22.14		23.5	0.2
100	PI/2 BPSK	135	69		22.33		23.7	0.0
100	PI/2 BPSK	135	138		22.16		23.5	0.2
100	PI/2 BPSK	270	0		22.22			
100	QPSK	1	1		22.38		23.7	0.0
100	QPSK	1	137		22.37			
100	QPSK	1	271		22.24			
100	QPSK	135	0		22.06		23.0	0.7
100	QPSK	135	69		22.33		23.7	0.0
100	QPSK	135	138		22.03		23.0	0.7
100	QPSK	270	0		22.22			
100	16QAM	1	1		22.17		23.0	0.7
100	64QAM	1	1		22.29		21.5	2.2
100	256QAM	1	1		21.72		19.5	4.2
Channel				649668	650000	650334	23.7	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	25.27	25.27	25.26	23.7	0.0
Channel				649334	650000	650668	23.7	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	25.26	25.34	25.26	23.7	0.0
Channel				649000	650000	651000	23.7	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	25.28	25.35	25.35	23.7	0.0
Channel				648668	650000	651334	23.7	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	25.29	25.31	25.27	23.7	0.0
Channel				648334	650000	651668	23.7	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	25.26	25.28	25.30	23.7	0.0
Channel				648000	650000	652000	23.7	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	25.31	25.26	25.28	23.7	0.0
Channel				647668	650000	652334	23.7	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	25.31	25.25	25.34	23.7	0.0
Channel				647334	650000	652668	23.7	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	25.24	25.29	25.24	23.7	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		23.7	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.65		23.7	0.0
100	PI/2 BPSK	1	137		22.62			
100	PI/2 BPSK	1	271		22.56			
100	PI/2 BPSK	135	0		22.59		23.5	0.2
100	PI/2 BPSK	135	69		22.61		23.7	0.0
100	PI/2 BPSK	135	138		22.63		23.5	0.2
100	PI/2 BPSK	270	0		22.57			
100	QPSK	1	1		22.66		23.7	0.0
100	QPSK	1	137		22.61			
100	QPSK	1	271		22.56			
100	QPSK	135	0		22.60		23.0	0.7
100	QPSK	135	69		22.64		23.7	0.0
100	QPSK	135	138		22.59		23.0	0.7
100	QPSK	270	0		22.61			
100	16QAM	1	1		22.62		23.0	0.7
100	64QAM	1	1		22.54		21.5	2.2
100	256QAM	1	1		21.96		19.5	4.2
Channel				633000	633334	633668	23.7	0.0
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	22.56	22.59	22.63	23.7	0.0
Channel				632668	633334	634000	23.7	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	22.61	22.61	22.55	23.7	0.0
Channel				632334	633334	634334	23.7	0.0
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	22.59	22.60	22.57	23.7	0.0
Channel				632000	633334	634668	23.7	0.0
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	22.58	22.53	22.56	23.7	0.0
Channel				631668	633334	635000	23.7	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	22.60	22.54	22.53	23.7	0.0
Channel				631334	633334	635334	23.7	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	22.52	22.61	22.53	23.7	0.0
Channel				631000	633334	635668	23.7	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	22.60	22.56	22.55	23.7	0.0
Channel				630668	633334	636000	23.7	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	22.58	22.58	22.63	23.7	0.0



<n78 Ant.4 PC3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		20.37		21.0	0.0
100	PI/2 BPSK	1	137		20.35			
100	PI/2 BPSK	1	271		20.32			
100	PI/2 BPSK	135	0		20.40		21.0	0.0
100	PI/2 BPSK	135	69		20.38		21.0	0.0
100	PI/2 BPSK	135	138		20.30		21.0	0.0
100	PI/2 BPSK	270	0		20.36			
100	QPSK	1	1		20.58		21.0	0.0
100	QPSK	1	137		20.40			
100	QPSK	1	271		20.29			
100	QPSK	135	0		20.34		21.0	0.0
100	QPSK	135	69		20.37		21.0	0.0
100	QPSK	135	138		20.33		21.0	0.0
100	QPSK	270	0		20.31			
100	16QAM	1	1		20.25		21.0	0.0
100	64QAM	1	1		20.35		21.0	0.0
100	256QAM	1	1		20.39		21.0	0.0
Channel				649668	650000	650334	21.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	20.40	20.37	20.49	21.0	0.0
Channel				649334	650000	650668	21.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	20.40	20.39	20.45	21.0	0.0
Channel				649000	650000	651000	21.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	20.39	20.42	20.49	21.0	0.0
Channel				648668	650000	651334	21.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	20.46	20.40	20.49	21.0	0.0
Channel				648334	650000	651668	21.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	20.42	20.35	20.41	21.0	0.0
Channel				648000	650000	652000	21.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	20.45	20.36	20.50	21.0	0.0
Channel				647668	650000	652334	21.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	20.45	20.43	20.49	21.0	0.0
Channel				647334	650000	652668	21.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	20.43	20.41	20.48	21.0	0.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334	21.0	0.0
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1		20.23			
100	PI/2 BPSK	1	137		20.21		21.0	0.0
100	PI/2 BPSK	1	271		20.03			
100	PI/2 BPSK	135	0		20.16			
100	PI/2 BPSK	135	69		20.11		21.0	0.0
100	PI/2 BPSK	135	138		20.18		21.0	0.0
100	PI/2 BPSK	270	0		20.21			
100	QPSK	1	1		20.43			
100	QPSK	1	137		20.33		21.0	0.0
100	QPSK	1	271		20.17			
100	QPSK	135	0		20.21			
100	QPSK	135	69		20.42		21.0	0.0
100	QPSK	135	138		20.25		21.0	0.0
100	QPSK	270	0		20.29			
100	16QAM	1	1		19.97			
100	64QAM	1	1		20.14		21.0	0.0
100	256QAM	1	1		20.11		21.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	20.40	20.39	20.45	21.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	20.45	20.43	20.49	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	20.46	20.40	20.49	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	20.39	20.42	20.49	21.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	20.45	20.36	20.50	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	20.40	20.39	20.45	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	20.39	20.42	20.49	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	20.43	20.41	20.48	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		20.01			
100	PI/2 BPSK	1	137		20.19		21.0	0.0
100	PI/2 BPSK	1	271		19.94			
100	PI/2 BPSK	135	0		20.20			
100	PI/2 BPSK	135	69		20.23		21.0	0.0
100	PI/2 BPSK	135	138		19.82		21.0	0.0
100	PI/2 BPSK	270	0		20.13			
100	QPSK	1	1		20.25			
100	QPSK	1	137		19.72		21.0	0.0
100	QPSK	1	271		19.95			
100	QPSK	135	0		20.16			
100	QPSK	135	69		20.22		21.0	0.0
100	QPSK	135	138		19.81		21.0	0.0
100	QPSK	270	0		19.87			
100	16QAM	1	1		20.25		21.0	0.0
100	64QAM	1	1		19.96		21.0	0.0
100	256QAM	1	1		19.37		21.0	0.0
Channel				649668	650000	650334	21.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	20.12	20.15	20.05		
Channel				649334	650000	650668	21.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	20.10	20.13	20.09		
Channel				649000	650000	651000	21.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	20.09	20.11	20.04		
Channel				648668	650000	651334	21.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	20.07	20.13	20.04		
Channel				648334	650000	651668	21.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	20.08	20.13	20.07		
Channel				648000	650000	652000	21.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	20.10	20.11	20.08		
Channel				647668	650000	652334	21.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	20.11	20.17	20.07		
Channel				647334	650000	652668	21.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	20.12	20.16	20.10		



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334	21.0	0.0
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1		20.01		21.0	0.0
100	PI/2 BPSK	1	137		20.13			
100	PI/2 BPSK	1	271		19.81			
100	PI/2 BPSK	135	0		20.22		21.0	0.0
100	PI/2 BPSK	135	69		20.13		21.0	0.0
100	PI/2 BPSK	135	138		19.84		21.0	0.0
100	PI/2 BPSK	270	0		19.97			
100	QPSK	1	1		20.33		21.0	0.0
100	QPSK	1	137		19.63			
100	QPSK	1	271		19.79			
100	QPSK	135	0		20.18		21.0	0.0
100	QPSK	135	69		20.27		21.0	0.0
100	QPSK	135	138		19.97		21.0	0.0
100	QPSK	270	0		19.89			
100	16QAM	1	1		20.18		21.0	0.0
100	64QAM	1	1		19.97		21.0	0.0
100	256QAM	1	1		19.36		21.0	0.0
Channel				633000	633334	633668	21.0	0.0
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	20.09	20.11	20.04	21.0	0.0
Channel				632668	633334	634000	21.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	20.12	20.15	20.05	21.0	0.0
Channel				632334	633334	634334	21.0	0.0
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	20.09	20.11	20.04	21.0	0.0
Channel				632000	633334	634668	21.0	0.0
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	20.12	20.15	20.05	21.0	0.0
Channel				631668	633334	635000	21.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	20.10	20.11	20.08	21.0	0.0
Channel				631334	633334	635334	21.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	20.12	20.16	20.10	21.0	0.0
Channel				631000	633334	635668	21.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	20.10	20.11	20.08	21.0	0.0
Channel				630668	633334	636000	21.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	20.12	20.15	20.05	21.0	0.0



Reduced Power Mode for DSI 3

<n2 Ant.0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	24.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	23.11	23.16	23.01		
20	PI/2 BPSK	1	53	23.14	23.22	23.09	23.5	0.5
20	PI/2 BPSK	1	104	23.07	23.19	23.12		
20	PI/2 BPSK	50	0	22.56	22.71	22.62		
20	PI/2 BPSK	50	28	23.10	23.23	23.18	23.5	0.5
20	PI/2 BPSK	50	56	22.57	22.66	22.58		
20	PI/2 BPSK	100	0	22.75	22.88	22.79		
20	QPSK	1	1	22.97	23.27	23.20	24.0	0.0
20	QPSK	1	53	22.92	23.05	22.98		
20	QPSK	1	104	22.70	22.84	22.75		
20	QPSK	50	0	22.08	22.16	22.07	23.0	1.0
20	QPSK	50	28	23.00	23.09	22.96		
20	QPSK	50	56	21.57	21.65	21.59		
20	QPSK	100	0	21.93	22.07	21.95	23.0	1.0
20	16QAM	1	1	22.15	22.24	22.17		
20	64QAM	1	1	20.61	20.73	20.66		
20	256QAM	1	1	19.17	19.26	19.14	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	40	22.86	23.17	23.07	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	26	22.88	23.21	23.14	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	13	22.83	23.19	23.06	24.0	0.0

<n5 Ant.0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.84	22.95	22.90	24.0	0.0
20	PI/2 BPSK	1	53	22.80	22.86	22.74		
20	PI/2 BPSK	1	104	22.72	22.83	22.75		
20	PI/2 BPSK	50	0	22.32	22.47	22.40	23.5	0.5
20	PI/2 BPSK	50	28	22.85	22.98	22.90	24.0	0.0
20	PI/2 BPSK	50	56	22.32	22.39	22.26	23.5	0.5
20	PI/2 BPSK	100	0	22.35	22.50	22.37		
20	QPSK	1	1	23.01	23.03	22.96	24.0	0.0
20	QPSK	1	53	22.78	22.91	22.85		
20	QPSK	1	104	22.74	22.80	22.72		
20	QPSK	50	0	21.90	21.98	21.90	23.0	1.0
20	QPSK	50	28	22.79	22.91	22.79	24.0	0.0
20	QPSK	50	56	21.74	21.86	21.81	23.0	1.0
20	QPSK	100	0	21.80	21.93	21.86		
20	16QAM	1	1	22.22	22.35	22.29	23.0	1.0
20	64QAM	1	1	20.77	20.82	20.69	21.5	2.5
20	256QAM	1	1	18.53	18.62	18.52	19.5	4.5
Channel				166300	167300	168300	24.0	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	40	22.88	22.89	22.84	24.0	0.0
Channel				165800	167300	168800	24.0	0.0
Frequency (MHz)				829	836.5	844		
10	QPSK	1	26	22.88	22.91	22.84	24.0	0.0
Channel				165300	167300	169300	24.0	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	13	22.90	22.95	22.90	24.0	0.0



<n7 Ant.2 SA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	18.1	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	16.78	16.92	16.84		
50	PI/2 BPSK	1	135	16.78	16.91	16.79	18.1	0.0
50	PI/2 BPSK	1	268	16.83	16.87	16.80		
50	PI/2 BPSK	135	0	16.73	16.86	16.79		
50	PI/2 BPSK	135	68	16.75	16.88	16.78	18.1	0.0
50	PI/2 BPSK	135	135	16.71	16.81	16.74	18.1	0.0
50	PI/2 BPSK	270	0	16.78	16.84	16.72		
50	QPSK	1	1	16.92	16.99	16.85		
50	QPSK	1	135	16.79	16.91	16.77	18.1	0.0
50	QPSK	1	268	16.83	16.92	16.85		
50	QPSK	135	0	16.75	16.89	16.82		
50	QPSK	135	68	16.81	16.92	16.86	18.1	0.0
50	QPSK	135	135	16.80	16.86	16.73	18.1	0.0
50	QPSK	270	0	16.83	16.91	16.85		
50	16QAM	1	1	16.56	16.70	16.62		
50	64QAM	1	1	16.70	16.81	16.69	18.1	0.0
50	256QAM	1	1	16.81	16.93	16.83	18.1	0.0
Channel				504000	507000	510000	18.1	0.0
Frequency (MHz)				2520	2535	2550		
40	QPSK	1	1	16.83	16.94	16.79		
Channel				503000	507000	511000	18.1	0.0
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	16.84	16.90	16.77		
Channel				502500	507000	511500	18.1	0.0
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	16.79	16.92	16.80		
Channel				502000	507000	512000	18.1	0.0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	16.79	16.93	16.77		
Channel				501500	507000	512500	18.1	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	16.78	16.88	16.78		
Channel				501000	507000	513000	18.1	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	16.84	16.95	16.74		
Channel				500500	507000	513500	18.1	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	16.88	16.96	16.82		



<n7 Ant.2 NSA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000	18.1	0.0
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	16.66	16.87	16.79		
20	PI/2 BPSK	1	53	16.65	16.80	16.74	18.1	0.0
20	PI/2 BPSK	1	104	16.78	16.72	16.66		
20	PI/2 BPSK	50	0	16.59	16.79	16.71		
20	PI/2 BPSK	50	28	16.62	16.75	16.66	18.1	0.0
20	PI/2 BPSK	50	56	16.56	16.76	16.68	18.1	0.0
20	PI/2 BPSK	100	0	16.70	16.68	16.62		
20	QPSK	1	1	16.77	16.89	16.76		
20	QPSK	1	53	16.68	16.82	16.66	18.1	0.0
20	QPSK	1	104	16.77	16.79	16.77		
20	QPSK	50	0	16.63	16.81	16.71		
20	QPSK	50	28	16.76	16.83	16.79	18.1	0.0
20	QPSK	50	56	16.67	16.79	16.65	18.1	0.0
20	QPSK	100	0	16.77	16.80	16.79		
20	16QAM	1	1	16.50	16.59	16.51		
20	64QAM	1	1	16.55	16.74	16.56	18.1	0.0
20	256QAM	1	1	16.66	16.84	16.77	18.1	0.0
Channel				501500	507000	512500	18.1	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	16.71	16.77	16.65	18.1	0.0
Channel				501000	507000	513000	18.1	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	16.64	16.79	16.71	18.1	0.0
Channel				500500	507000	513500	18.1	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	16.66	16.80	16.60	18.1	0.0



<n66 Ant.0 SA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	24.0	0.0
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	22.82	22.96	22.81		
20	PI/2 BPSK	1	53	22.72	22.86	22.87	23.5	0.5
20	PI/2 BPSK	1	104	22.90	22.92	22.82		
20	PI/2 BPSK	50	0	22.30	22.40	22.30		
20	PI/2 BPSK	50	28	22.85	22.91	22.88	24.0	0.0
20	PI/2 BPSK	50	56	22.36	22.46	22.42		
20	PI/2 BPSK	100	0	22.24	22.43	22.29		
20	QPSK	1	1	22.97	23.10	22.88	24.0	0.0
20	QPSK	1	53	22.85	22.93	22.85		
20	QPSK	1	104	22.86	22.93	22.86		
20	QPSK	50	0	21.71	21.88	21.77	23.0	1.0
20	QPSK	50	28	22.81	23.09	22.79		
20	QPSK	50	56	21.84	21.95	21.92		
20	QPSK	100	0	21.85	21.97	21.81	23.0	1.0
20	16QAM	1	1	22.14	22.19	22.20		
20	64QAM	1	1	20.44	20.53	20.39		
20	256QAM	1	1	18.36	18.49	18.40	19.5	4.5
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.03	23.06	22.89	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.07	23.06	22.93	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.04	23.01	22.97	24.0	0.0



<n66 Ant.0 NSA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349000	353000	24.0	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	22.99	23.09	22.95		
30	PI/2 BPSK	1	80	22.91	23.05	22.98	23.5	0.5
30	PI/2 BPSK	1	158	23.02	23.11	22.96		
30	PI/2 BPSK	80	0	22.50	22.58	22.46		
30	PI/2 BPSK	80	40	22.97	23.10	23.01	24.0	0.0
30	PI/2 BPSK	80	80	22.55	22.61	22.53		
30	PI/2 BPSK	160	0	22.41	22.55	22.41		
30	QPSK	1	1	23.15	23.22	23.03	24.0	0.0
30	QPSK	1	80	22.97	23.07	22.96		
30	QPSK	1	158	22.99	23.10	23.04		
30	QPSK	80	0	21.91	22.02	21.96	23.0	1.0
30	QPSK	80	40	22.96	23.21	22.94		
30	QPSK	80	80	22.01	22.11	22.03		
30	QPSK	160	0	21.99	22.08	21.98	23.0	1.0
30	16QAM	1	1	22.25	22.39	22.32		
30	64QAM	1	1	20.56	20.67	20.57		
30	256QAM	1	1	18.49	18.63	18.53	19.5	4.5
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	53	23.03	23.15	22.88	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	40	23.03	23.06	22.89	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	26	23.07	23.16	22.93	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	13	23.04	23.14	22.97	24.0	0.0



<n38 Ant.2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	19.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	17.43	17.58	17.52		
40	PI/2 BPSK	1	53	17.36	17.49	17.39	19.0	0.0
40	PI/2 BPSK	1	104	17.37	17.48	17.42		
40	PI/2 BPSK	50	0	17.37	17.46	17.43		
40	PI/2 BPSK	50	28	17.47	17.55	17.44	19.0	0.0
40	PI/2 BPSK	50	56	17.47	17.53	17.46	19.0	0.0
40	PI/2 BPSK	100	0	17.42	17.51	17.39		
40	QPSK	1	1	17.49	17.64	17.58		
40	QPSK	1	53	17.40	17.45	17.41	19.0	0.0
40	QPSK	1	104	17.35	17.50	17.41		
40	QPSK	50	0	17.38	17.52	17.43		
40	QPSK	50	28	17.41	17.55	17.44	19.0	0.0
40	QPSK	50	56	17.31	17.44	17.38	19.0	0.0
40	QPSK	100	0	17.35	17.49	17.39		
40	16QAM	1	1	17.41	17.54	17.46		
40	64QAM	1	1	17.40	17.48	17.44	19.0	0.0
40	256QAM	1	1	17.44	17.47	17.56	19.0	0.0
Channel				517002	519000	520998	19.0	0.0
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	17.44	17.52	17.51	19.0	0.0
Channel				516000	519000	522000	19.0	0.0
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	17.36	17.53	17.48	19.0	0.0



<n41 Ant.1 PC3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.20	19.27	19.14		
100	PI/2 BPSK	1	137	19.72	19.76	19.58	21.0	0.0
100	PI/2 BPSK	1	271	19.88	20.02	19.94		
100	PI/2 BPSK	135	0	19.64	19.71	19.64		
100	PI/2 BPSK	135	69	19.81	19.91	19.82	21.0	0.0
100	PI/2 BPSK	135	138	19.97	19.78	20.03		
100	PI/2 BPSK	270	0	19.58	19.64	19.52		
100	QPSK	1	1	19.89	20.19	19.87	21.0	0.0
100	QPSK	1	137	19.97	20.07	20.03		
100	QPSK	1	271	19.90	19.92	19.95		
100	QPSK	135	0	19.53	19.65	19.49	21.0	0.0
100	QPSK	135	69	19.74	20.15	19.64		
100	QPSK	135	138	19.78	19.86	19.73		
100	QPSK	270	0	19.63	19.68	19.60	21.0	0.0
100	16QAM	1	1	19.47	19.65	19.59		
100	64QAM	1	1	19.95	20.08	19.96		
100	256QAM	1	1	19.76	19.94	19.79	21.0	0.0
Channel				508200	518598	528996	21.0	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	19.66	19.79	19.88		
Channel				507204	518598	529998	21.0	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	109	19.78	19.90	19.77		
Channel				506202	518598	531000	21.0	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	95	19.81	19.97	19.87		
Channel				505200	518598	531996	21.0	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	81	19.81	19.79	19.83		
Channel				504204	518598	532998	21.0	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	19.76	19.87	19.82		
Channel				503202	518598	534000	21.0	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	19.86	19.78	19.72		
Channel				502200	518598	534996	21.0	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	39	19.86	19.94	19.73		
Channel				501204	518598	535998	21.0	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	19.79	19.87	19.72		



<n41 Ant.2 PC2&3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	19.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.49	17.65	17.49		
100	PI/2 BPSK	1	137	17.50	17.61	17.48		
100	PI/2 BPSK	1	271	17.39	17.54	17.45	19.0	0.0
100	PI/2 BPSK	135	0	17.32	17.52	17.44		
100	PI/2 BPSK	135	69	17.45	17.61	17.48		
100	PI/2 BPSK	135	138	17.49	17.57	17.43		
100	PI/2 BPSK	270	0	17.43	17.58	17.42	19.0	0.0
100	QPSK	1	1	17.60	17.69	17.49		
100	QPSK	1	137	17.41	17.57	17.44		
100	QPSK	1	271	17.46	17.56	17.46		
100	QPSK	135	0	17.45	17.59	17.50	19.0	0.0
100	QPSK	135	69	17.50	17.63	17.45		
100	QPSK	135	138	17.42	17.50	17.41		
100	QPSK	270	0	17.50	17.60	17.50		
100	16QAM	1	1	17.46	17.63	17.44	19.0	0.0
100	64QAM	1	1	17.42	17.52	17.43	19.0	0.0
100	256QAM	1	1	17.15	17.31	17.22	19.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.41	17.60	17.31	19.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.44	17.58	17.32	19.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.43	17.51	17.36	19.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.49	17.55	17.36	19.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.51	17.54	17.39	19.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.42	17.55	17.39	19.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.44	17.51	17.38	19.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	12.44	12.51	12.38	19.0	0.0



<n41 Ant.4 PC3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.25	19.42	19.27		
100	PI/2 BPSK	1	137	19.40	19.57	19.50		
100	PI/2 BPSK	1	271	20.09	20.11	20.01	21.0	0.0
100	PI/2 BPSK	135	0	19.36	19.44	19.27		
100	PI/2 BPSK	135	69	19.66	19.75	19.70		
100	PI/2 BPSK	135	138	20.15	20.17	20.04		
100	PI/2 BPSK	270	0	19.76	19.92	19.86	21.0	0.0
100	QPSK	1	1	20.10	20.21	20.01		
100	QPSK	1	137	20.05	20.12	20.05		
100	QPSK	1	271	20.19	20.17	20.08		
100	QPSK	135	0	19.60	19.69	19.60	20.0	1.0
100	QPSK	135	69	19.83	20.18	19.93		
100	QPSK	135	138	20.15	20.07	20.08		
100	QPSK	270	0	20.07	20.16	20.11		
100	16QAM	1	1	19.35	19.54	19.39	21.0	0.0
100	64QAM	1	1	20.13	20.02	20.09	21.0	0.0
100	256QAM	1	1	20.08	20.13	20.05	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	19.57	20.08	19.74	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	109	19.54	20.08	19.74	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	95	19.60	20.12	19.70	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	81	19.54	20.15	19.81	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	19.58	20.18	19.85	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	19.65	20.18	19.78	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	39	19.54	20.13	19.70	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	19.69	20.10	19.80	21.0	0.0



<n41 Ant.6 PC3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.88	20.18	20.07		
100	PI/2 BPSK	1	137	19.60	19.68	19.55	21.0	0.0
100	PI/2 BPSK	1	271	20.55	20.55	20.45		
100	PI/2 BPSK	135	0	19.69	19.98	19.80		
100	PI/2 BPSK	135	69	19.74	19.84	19.58	21.0	0.0
100	PI/2 BPSK	135	138	19.94	20.23	20.06		
100	PI/2 BPSK	270	0	19.96	20.11	19.98		
100	QPSK	1	1	20.25	20.57	20.33	21.0	0.0
100	QPSK	1	137	19.80	20.02	19.90		
100	QPSK	1	271	20.32	20.48	20.42		
100	QPSK	135	0	20.01	20.11	19.97	21.0	0.0
100	QPSK	135	69	19.74	20.14	19.99		
100	QPSK	135	138	20.07	20.04	20.12		
100	QPSK	270	0	19.97	20.01	19.96	21.0	0.0
100	16QAM	1	1	19.95	20.12	19.91		
100	64QAM	1	1	20.16	20.43	20.15		
100	256QAM	1	1	19.60	19.90	19.74	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	123	19.55	19.72	19.53	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	109	19.48	19.74	19.45	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	95	19.56	19.66	19.52	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	81	19.56	19.62	19.38	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	67	19.62	19.83	19.42	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	53	19.61	19.73	19.38	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	39	19.56	19.69	19.54	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	26	19.49	19.65	19.39	21.0	0.0



<n77Ant.1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	20.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.69	18.83	18.68		
100	PI/2 BPSK	1	137	18.83	18.91	18.82	20.0	0.0
100	PI/2 BPSK	1	271	18.73	19.02	18.93		
100	PI/2 BPSK	135	0	18.45	18.67	18.44		
100	PI/2 BPSK	135	69	18.72	18.98	18.83	20.0	0.0
100	PI/2 BPSK	135	138	18.42	18.70	18.50	20.0	0.0
100	PI/2 BPSK	270	0	18.65	18.74	18.50		
100	QPSK	1	1	18.97	19.28	18.90		
100	QPSK	1	137	18.91	19.16	19.03	20.0	0.0
100	QPSK	1	271	18.99	19.26	19.09		
100	QPSK	135	0	18.64	18.84	18.64		
100	QPSK	135	69	18.92	19.04	18.91	20.0	0.0
100	QPSK	135	138	18.62	18.78	18.69	20.0	0.0
100	QPSK	270	0	18.25	18.46	18.27		
100	16QAM	1	1	18.36	18.65	18.49	20.0	0.0
100	64QAM	1	1	17.70	17.97	17.83	20.0	0.0
100	256QAM	1	1	17.15	17.29	17.06	19.5	0.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	18.81	18.85	18.80	20.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	18.61	18.83	18.72	20.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	18.71	18.76	18.81	20.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	18.74	18.88	18.67	20.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	18.74	18.94	18.71	20.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		20.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.62			
100	PI/2 BPSK	1	137		18.19		20.0	0.0
100	PI/2 BPSK	1	271		18.14			
100	PI/2 BPSK	135	0		18.54			
100	PI/2 BPSK	135	69		18.43		20.0	0.0
100	PI/2 BPSK	135	138		18.12		20.0	0.0
100	PI/2 BPSK	270	0		18.41			
100	QPSK	1	1		18.71			
100	QPSK	1	137		18.29		20.0	0.0
100	QPSK	1	271		18.07			
100	QPSK	135	0		18.41			
100	QPSK	135	69		18.52		20.0	0.0
100	QPSK	135	138		18.12		20.0	0.0
100	QPSK	270	0		18.39			
100	16QAM	1	1		18.47			
100	64QAM	1	1		18.52'		20.0	0.0
100	256QAM	1	1		18.03		19.5	0.5
Channel				632668	633334	634000	20.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	18.17	18.21	18.32		
Channel				632000	633334	634668	20.0	0.0
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	18.21	18.29	18.22		
Channel				631334	633334	635334	20.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	18.13	18.23	18.20		
Channel				631000	633334	635668	20.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	18.19	18.19	18.32		
Channel				630668	633334	636000	20.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	18.16	18.39	18.37		



<n77Ant.3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	24.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	23.29	23.34	23.09		
100	PI/2 BPSK	1	137	22.73	22.83	22.69	23.5	0.5
100	PI/2 BPSK	1	271	22.90	22.95	22.78		
100	PI/2 BPSK	135	0	22.71	23.04	22.80		
100	PI/2 BPSK	135	69	22.86	23.12	23.10	24.0	0.0
100	PI/2 BPSK	135	138	22.49	22.79	22.71		
100	PI/2 BPSK	270	0	21.95	22.27	22.05		
100	QPSK	1	1	23.25	23.47	23.13	24.0	0.0
100	QPSK	1	137	23.07	23.15	23.01		
100	QPSK	1	271	23.19	23.31	23.07		
100	QPSK	135	0	22.05	22.39	22.00	23.0	1.0
100	QPSK	135	69	23.44	23.46	23.28		
100	QPSK	135	138	22.40	22.48	22.36		
100	QPSK	270	0	22.35	22.53	22.31	23.0	1.0
100	16QAM	1	1	22.15	22.52	22.48		
100	64QAM	1	1	20.91	21.12	20.84		
100	256QAM	1	1	18.76	19.06	19.02	19.5	4.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	23.21	23.31	23.17	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	23.19	23.32	23.19	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	23.23	23.37	23.13	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	23.19	23.21	23.06	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	23.15	23.16	23.04	24.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		23.10			
100	PI/2 BPSK	1	137		22.70		23.5	0.5
100	PI/2 BPSK	1	271		22.57			
100	PI/2 BPSK	135	0		22.74			
100	PI/2 BPSK	135	69		22.73		23.5	0.5
100	PI/2 BPSK	135	138		22.42			
100	PI/2 BPSK	270	0		21.94			
100	QPSK	1	1		23.40		24.0	0.0
100	QPSK	1	137		22.90			
100	QPSK	1	271		23.23			
100	QPSK	135	0		22.10		23.0	1.0
100	QPSK	135	69		23.25			
100	QPSK	135	138		22.29			
100	QPSK	270	0		22.43		23.0	1.0
100	16QAM	1	1		22.27			
100	64QAM	1	1		20.89			
100	256QAM	1	1		19.05		19.5	4.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	22.62	22.61	22.45	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	22.55	22.59	22.38	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	22.40	22.52	22.39	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	22.44	22.56	22.47	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	22.46	22.62	22.35	24.0	0.0



<n77Ant.4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	20.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.52	19.68	19.51		
100	PI/2 BPSK	1	137	18.89	19.03	18.94	20.0	0.0
100	PI/2 BPSK	1	271	17.91	18.15	17.84	20.0	0.0
100	PI/2 BPSK	135	0	19.03	19.28	19.12	20.0	0.0
100	PI/2 BPSK	135	69	19.02	19.16	18.86	20.0	0.0
100	PI/2 BPSK	135	138	18.19	18.43	18.21	20.0	0.0
100	PI/2 BPSK	270	0	18.86	18.99	18.68	20.0	0.0
100	QPSK	1	1	19.55	19.75	19.46	20.0	0.0
100	QPSK	1	137	19.38	19.63	19.45	20.0	0.0
100	QPSK	1	271	18.34	18.61	18.46	20.0	0.0
100	QPSK	135	0	19.27	19.36	19.10	20.0	0.0
100	QPSK	135	69	19.51	19.65	19.35	20.0	0.0
100	QPSK	135	138	18.24	18.54	18.45	20.0	0.0
100	QPSK	270	0	18.52	18.71	18.49	20.0	0.0
100	16QAM	1	1	18.81	18.95	18.71	20.0	0.0
100	64QAM	1	1	18.18	18.28	18.02	20.0	0.0
100	256QAM	1	1	17.81	18.11	18.01	19.5	0.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	19.14	19.04	18.84	20.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	18.97	19.10	18.86	20.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	19.15	19.28	18.88	20.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	19.12	19.22	18.97	20.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	19.14	19.15	18.96	20.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		20.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.19			
100	PI/2 BPSK	1	137		18.91		20.0	0.0
100	PI/2 BPSK	1	271		19.01			
100	PI/2 BPSK	135	0		19.14			
100	PI/2 BPSK	135	69		19.05		20.0	0.0
100	PI/2 BPSK	135	138		18.87		20.0	0.0
100	PI/2 BPSK	270	0		19.03			
100	QPSK	1	1		19.30			
100	QPSK	1	137		18.97		20.0	0.0
100	QPSK	1	271		18.84			
100	QPSK	135	0		18.99			
100	QPSK	135	69		19.15		20.0	0.0
100	QPSK	135	138		18.83		20.0	0.0
100	QPSK	270	0		19.02			
100	16QAM	1	1		18.86			
100	64QAM	1	1		19.13		20.0	0.0
100	256QAM	1	1		18.56		19.5	0.5
Channel				632668	633334	634000	20.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	18.62	18.52	18.46		
Channel				632000	633334	634668	20.0	0.0
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	18.66	18.49	18.40		
Channel				631334	633334	635334	20.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	18.49	18.41	18.38		
Channel				631000	633334	635668	20.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	18.47	18.38	18.38		
Channel				630668	633334	636000	20.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	18.44	18.45	18.58		



<n77Ant.5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	20.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.97	19.17	18.89	20.0	0.0
100	PI/2 BPSK	1	137	18.57	18.73	18.61		
100	PI/2 BPSK	1	271	17.93	18.17	17.97		
100	PI/2 BPSK	135	0	18.46	18.76	18.49	20.0	0.0
100	PI/2 BPSK	135	69	18.62	18.87	18.58	20.0	0.0
100	PI/2 BPSK	135	138	18.16	18.25	18.17	20.0	0.0
100	PI/2 BPSK	270	0	18.43	18.63	18.34		
100	QPSK	1	1	19.11	19.31	19.13	20.0	0.0
100	QPSK	1	137	18.97	19.21	18.99		
100	QPSK	1	271	18.49	18.60	18.45		
100	QPSK	135	0	18.92	19.04	18.98	20.0	0.0
100	QPSK	135	69	18.70	19.12	18.87	20.0	0.0
100	QPSK	135	138	18.09	18.35	18.18	20.0	0.0
100	QPSK	270	0	18.17	18.29	18.14		
100	16QAM	1	1	18.09	18.25	18.11	20.0	0.0
100	64QAM	1	1	18.24	18.48	18.32	20.0	0.0
100	256QAM	1	1	17.69	17.81	17.72	19.5	0.5
Channel				649334	656000	662668	20.0	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	109	18.38	18.72	18.73	20.0	0.0
Channel				648668	656000	663334	20.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	81	18.56	18.80	18.56	20.0	0.0
Channel				648000	656000	664000	20.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	53	18.60	18.79	18.58	20.0	0.0
Channel				647668	656000	664334	20.0	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	39	18.43	18.81	18.79	20.0	0.0
Channel				647334	656000	664668	20.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	26	18.42	18.84	18.77	20.0	0.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		20.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.33		20.0	0.0
100	PI/2 BPSK	1	137		19.34			
100	PI/2 BPSK	1	271		19.31			
100	PI/2 BPSK	135	0		19.33		20.0	0.0
100	PI/2 BPSK	135	69		19.38		20.0	0.0
100	PI/2 BPSK	135	138		19.27		20.0	0.0
100	PI/2 BPSK	270	0		19.38			
100	QPSK	1	1		19.41		20.0	0.0
100	QPSK	1	137		19.36			
100	QPSK	1	271		19.35			
100	QPSK	135	0		19.38		20.0	0.0
100	QPSK	135	69		19.39		20.0	0.0
100	QPSK	135	138		19.29		20.0	0.0
100	QPSK	270	0		19.35			
100	16QAM	1	1		19.16		20.0	0.0
100	64QAM	1	1		19.37		20.0	0.0
100	256QAM	1	1		18.55		19.5	0.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	19.25	19.11	19.20	20.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	19.19	18.97	19.23	20.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	19.30	19.02	19.26	20.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	19.30	19.10	19.08	20.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	19.16	18.92	19.09	20.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.03		21.0	0.0
100	PI/2 BPSK	1	137		19.23			
100	PI/2 BPSK	1	271		19.26			
100	PI/2 BPSK	135	0		18.87		21.0	0.0
100	PI/2 BPSK	135	69		19.15		21.0	0.0
100	PI/2 BPSK	135	138		18.98		21.0	0.0
100	PI/2 BPSK	270	0		18.87			
100	QPSK	1	1		19.43		21.0	0.0
100	QPSK	1	137		19.25			
100	QPSK	1	271		19.39			
100	QPSK	135	0		18.89		21.0	0.0
100	QPSK	135	69		19.12		21.0	0.0
100	QPSK	135	138		18.98		21.0	0.0
100	QPSK	270	0		19.02			
100	16QAM	1	1		18.72		21.0	0.0
100	64QAM	1	1		17.71		21.0	0.0
100	256QAM	1	1		17.16		19.5	1.5
Channel				649668	650000	650334	21.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	19.26	19.32	19.34	21.0	0.0
Channel				649334	650000	650668	21.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	19.21	19.28	19.29	21.0	0.0
Channel				649000	650000	651000	21.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	19.24	19.31	19.31	21.0	0.0
Channel				648668	650000	651334	21.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	19.28	19.26	19.29	21.0	0.0
Channel				648334	650000	651668	21.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	19.28	19.29	19.33	21.0	0.0
Channel				648000	650000	652000	21.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	19.27	19.31	19.34	21.0	0.0
Channel				647668	650000	652334	21.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	19.21	19.27	19.31	21.0	0.0
Channel				647334	650000	652668	21.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	19.28	19.25	19.31	21.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334	21.0	0.0
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1		19.21		21.0	0.0
100	PI/2 BPSK	1	137		19.11			
100	PI/2 BPSK	1	271		19.33			
100	PI/2 BPSK	135	0		19.01		21.0	0.0
100	PI/2 BPSK	135	69		19.16		21.0	0.0
100	PI/2 BPSK	135	138		19.01		21.0	0.0
100	PI/2 BPSK	270	0		19.03			
100	QPSK	1	1		19.55		21.0	0.0
100	QPSK	1	137		19.14			
100	QPSK	1	271		19.36			
100	QPSK	135	0		19.01		21.0	0.0
100	QPSK	135	69		19.52		21.0	0.0
100	QPSK	135	138		19.37		21.0	0.0
100	QPSK	270	0		18.89			
100	16QAM	1	1		18.91		21.0	0.0
100	64QAM	1	1		17.69		21.0	0.0
100	256QAM	1	1		17.38		19.5	1.5
Channel				633000	633334	633668	21.0	0.0
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	19.21	19.28	19.29	21.0	0.0
Channel				632668	633334	634000	21.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	19.28	19.29	19.33	21.0	0.0
Channel				632334	633334	634334	21.0	0.0
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	19.21	19.28	19.29	21.0	0.0
Channel				632000	633334	634668	21.0	0.0
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	19.28	19.29	19.33	21.0	0.0
Channel				631668	633334	635000	21.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	19.27	19.31	19.34	21.0	0.0
Channel				631334	633334	635334	21.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	19.28	19.25	19.31	21.0	0.0
Channel				631000	633334	635668	21.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	19.27	19.31	19.34	21.0	0.0
Channel				630668	633334	636000	21.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	19.21	19.28	19.29	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	24.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		23.27			
100	PI/2 BPSK	1	137		22.54		23.5	0.5
100	PI/2 BPSK	1	271		22.97			
100	PI/2 BPSK	135	0		22.81			
100	PI/2 BPSK	135	69		23.03		24.0	0.0
100	PI/2 BPSK	135	138		22.56			
100	PI/2 BPSK	270	0		22.16			
100	QPSK	1	1		23.40		24.0	0.0
100	QPSK	1	137		22.91			
100	QPSK	1	271		23.05			
100	QPSK	135	0		22.40		23.0	1.0
100	QPSK	135	69		23.22			
100	QPSK	135	138		22.51			
100	QPSK	270	0		22.38		23.0	1.0
100	16QAM	1	1		22.42			
100	64QAM	1	1		20.93			
100	256QAM	1	1		18.87		19.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	23.19	23.21	23.08	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	22.99	23.11	22.89	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	22.94	23.08	22.94	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	23.01	23.05	22.93	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	23.04	23.12	22.82	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	22.97	22.98	22.93	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	23.00	23.09	22.87	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	23.05	23.09	22.90	24.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		23.24		24.0	0.0
100	PI/2 BPSK	1	137		22.80			
100	PI/2 BPSK	1	271		23.02			
100	PI/2 BPSK	135	0		22.92		23.5	0.5
100	PI/2 BPSK	135	69		23.27		24.0	0.0
100	PI/2 BPSK	135	138		22.52		23.5	0.5
100	PI/2 BPSK	270	0		22.44			
100	QPSK	1	1		23.46		24.0	0.0
100	QPSK	1	137		22.57			
100	QPSK	1	271		22.70			
100	QPSK	135	0		22.70		23.0	1.0
100	QPSK	135	69		23.25		24.0	0.0
100	QPSK	135	138		22.60		23.0	1.0
100	QPSK	270	0		22.44			
100	16QAM	1	1		22.20		23.0	1.0
100	64QAM	1	1		21.01		21.5	2.5
100	256QAM	1	1		18.64		19.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	23.17	23.32	23.30	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	23.23	23.09	23.03	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	23.23	23.19	23.00	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	23.21	23.16	23.08	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	23.16	23.09	23.13	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	23.17	23.15	23.22	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	23.19	23.18	23.09	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	23.14	23.06	23.12	24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	27.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		26.18		27.0	0.0
100	PI/2 BPSK	1	137		25.67			
100	PI/2 BPSK	1	271		25.93			
100	PI/2 BPSK	135	0		25.90		26.5	0.5
100	PI/2 BPSK	135	69		26.16		27.0	0.0
100	PI/2 BPSK	135	138		25.71		26.5	0.5
100	PI/2 BPSK	270	0		25.31			
100	QPSK	1	1		26.49		27.0	0.0
100	QPSK	1	137		25.83			
100	QPSK	1	271		25.96			
100	QPSK	135	0		25.57		26.0	1.0
100	QPSK	135	69		26.41		27.0	0.0
100	QPSK	135	138		25.55		26.0	1.0
100	QPSK	270	0		25.38			
100	16QAM	1	1		25.27		26.0	1.0
100	64QAM	1	1		23.79		24.5	2.5
100	256QAM	1	1		21.86		22.5	4.5
Channel				649668	650000	650334	27.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	25.24	25.16	25.04	27.0	0.0
Channel				649334	650000	650668	27.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	25.17	25.25	25.09	27.0	0.0
Channel				649000	650000	651000	27.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	25.24	25.16	25.04	27.0	0.0
Channel				648668	650000	651334	27.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	25.37	25.35	25.34	27.0	0.0
Channel				648334	650000	651668	27.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	25.24	25.16	25.04	27.0	0.0
Channel				648000	650000	652000	27.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	25.37	25.35	25.34	27.0	0.0
Channel				647668	650000	652334	27.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	25.17	25.25	25.09	27.0	0.0
Channel				647334	650000	652668	27.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	25.37	25.35	25.34	27.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		27.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		26.34			
100	PI/2 BPSK	1	137		25.86		26.5	0.5
100	PI/2 BPSK	1	271		25.90			
100	PI/2 BPSK	135	0		25.85			
100	PI/2 BPSK	135	69		26.30		27.0	0.0
100	PI/2 BPSK	135	138		25.62			
100	PI/2 BPSK	270	0		25.42			
100	QPSK	1	1		26.45		27.0	0.0
100	QPSK	1	137		25.75			
100	QPSK	1	271		25.85			
100	QPSK	135	0		25.53		26.0	1.0
100	QPSK	135	69		26.37			
100	QPSK	135	138		25.65			
100	QPSK	270	0		25.39		26.0	1.0
100	16QAM	1	1		25.16			
100	64QAM	1	1		23.87			
100	256QAM	1	1		21.82		22.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	25.37	25.35	25.34	27.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	25.24	25.18	25.03	27.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	25.24	25.16	25.04	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	25.21	25.26	25.16	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	25.27	25.21	25.10	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	25.16	25.14	25.15	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	25.17	25.25	25.09	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	25.12	25.23	25.10	27.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		20.37		21.0	0.0
100	PI/2 BPSK	1	137		20.35			
100	PI/2 BPSK	1	271		20.32			
100	PI/2 BPSK	135	0		20.40		21.0	0.0
100	PI/2 BPSK	135	69		20.38		21.0	0.0
100	PI/2 BPSK	135	138		20.30		21.0	0.0
100	PI/2 BPSK	270	0		20.36			
100	QPSK	1	1		20.58		21.0	0.0
100	QPSK	1	137		20.40			
100	QPSK	1	271		20.29			
100	QPSK	135	0		20.34		21.0	0.0
100	QPSK	135	69		20.37		21.0	0.0
100	QPSK	135	138		20.33		21.0	0.0
100	QPSK	270	0		20.31			
100	16QAM	1	1		20.25		21.0	0.0
100	64QAM	1	1		20.35		21.0	0.0
100	256QAM	1	1		20.39		21.0	0.0
Channel				649668	650000	650334	21.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	20.40	20.37	20.49	21.0	0.0
Channel				649334	650000	650668	21.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	20.40	20.39	20.45	21.0	0.0
Channel				649000	650000	651000	21.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	20.39	20.42	20.49	21.0	0.0
Channel				648668	650000	651334	21.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	20.46	20.40	20.49	21.0	0.0
Channel				648334	650000	651668	21.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	20.42	20.35	20.41	21.0	0.0
Channel				648000	650000	652000	21.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	20.45	20.36	20.50	21.0	0.0
Channel				647668	650000	652334	21.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	20.45	20.43	20.49	21.0	0.0
Channel				647334	650000	652668	21.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	20.43	20.41	20.48	21.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334	21.0	0.0
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1		20.23			
100	PI/2 BPSK	1	137		20.21		21.0	0.0
100	PI/2 BPSK	1	271		20.03			
100	PI/2 BPSK	135	0		20.16		21.0	0.0
100	PI/2 BPSK	135	69		20.11		21.0	0.0
100	PI/2 BPSK	135	138		20.18		21.0	0.0
100	PI/2 BPSK	270	0		20.21			
100	QPSK	1	1		20.43			
100	QPSK	1	137		20.33		21.0	0.0
100	QPSK	1	271		20.17			
100	QPSK	135	0		20.21		21.0	0.0
100	QPSK	135	69		20.42		21.0	0.0
100	QPSK	135	138		20.25		21.0	0.0
100	QPSK	270	0		20.29			
100	16QAM	1	1		19.97		21.0	0.0
100	64QAM	1	1		20.14		21.0	0.0
100	256QAM	1	1		20.11		21.0	0.0
Channel				633000	633334	633668	21.0	0.0
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	20.39	20.42	20.49		
Channel				632668	633334	634000	21.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	20.45	20.43	20.49		
Channel				632334	633334	634334	21.0	0.0
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	20.46	20.40	20.49		
Channel				632000	633334	634668	21.0	0.0
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	20.45	20.43	20.49		
Channel				631668	633334	635000	21.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	20.40	20.39	20.45		
Channel				631334	633334	635334	21.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	20.46	20.40	20.49		
Channel				631000	633334	635668	21.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	20.40	20.39	20.45		
Channel				630668	633334	636000	21.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	20.46	20.40	20.49		



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		20.01		21.0	0.0
100	PI/2 BPSK	1	137		20.19			
100	PI/2 BPSK	1	271		19.94			
100	PI/2 BPSK	135	0		20.20		21.0	0.0
100	PI/2 BPSK	135	69		20.23		21.0	0.0
100	PI/2 BPSK	135	138		19.82		21.0	0.0
100	PI/2 BPSK	270	0		20.13			
100	QPSK	1	1		20.25		21.0	0.0
100	QPSK	1	137		19.72			
100	QPSK	1	271		19.95			
100	QPSK	135	0		20.16		21.0	0.0
100	QPSK	135	69		20.22		21.0	0.0
100	QPSK	135	138		19.81		21.0	0.0
100	QPSK	270	0		19.87			
100	16QAM	1	1		20.25		21.0	0.0
100	64QAM	1	1		19.96		21.0	0.0
100	256QAM	1	1		19.37		21.0	0.0
Channel				649668	650000	650334	21.0	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	123	20.12	20.15	20.05	21.0	0.0
Channel				649334	650000	650668	21.0	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	109	20.10	20.13	20.09	21.0	0.0
Channel				649000	650000	651000	21.0	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	95	20.09	20.11	20.04	21.0	0.0
Channel				648668	650000	651334	21.0	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	81	20.07	20.13	20.04	21.0	0.0
Channel				648334	650000	651668	21.0	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	67	20.08	20.13	20.07	21.0	0.0
Channel				648000	650000	652000	21.0	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	53	20.10	20.11	20.08	21.0	0.0
Channel				647668	650000	652334	21.0	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	39	20.11	20.17	20.07	21.0	0.0
Channel				647334	650000	652668	21.0	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	26	20.12	20.16	20.10	21.0	0.0



BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334	633334	21.0	0.0
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1		20.01		21.0	0.0
100	PI/2 BPSK	1	137		20.13			
100	PI/2 BPSK	1	271		19.81			
100	PI/2 BPSK	135	0		20.22		21.0	0.0
100	PI/2 BPSK	135	69		20.13		21.0	0.0
100	PI/2 BPSK	135	138		19.84		21.0	0.0
100	PI/2 BPSK	270	0		19.97			
100	QPSK	1	1		20.33		21.0	0.0
100	QPSK	1	137		19.63			
100	QPSK	1	271		19.79			
100	QPSK	135	0		20.18		21.0	0.0
100	QPSK	135	69		20.27		21.0	0.0
100	QPSK	135	138		19.97		21.0	0.0
100	QPSK	270	0		19.89			
100	16QAM	1	1		20.18		21.0	0.0
100	64QAM	1	1		19.97		21.0	0.0
100	256QAM	1	1		19.36		21.0	0.0
Channel				633000	633334	633668	21.0	0.0
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	123	20.10	20.13	20.09	21.0	0.0
Channel				632668	633334	634000	21.0	0.0
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	20.07	20.13	20.04	21.0	0.0
Channel				632334	633334	634334	21.0	0.0
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	95	20.11	20.17	20.07	21.0	0.0
Channel				632000	633334	634668	21.0	0.0
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	20.12	20.15	20.05	21.0	0.0
Channel				631668	633334	635000	21.0	0.0
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	20.12	20.16	20.10	21.0	0.0
Channel				631334	633334	635334	21.0	0.0
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	20.12	20.15	20.05	21.0	0.0
Channel				631000	633334	635668	21.0	0.0
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	20.12	20.16	20.10	21.0	0.0
Channel				630668	633334	636000	21.0	0.0
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	20.09	20.11	20.04	21.0	0.0

<WLAN Conducted Power>**General Note:**

1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

<2.4GHz WLAN>

2.4GHz WLAN	Ant 7 Full power Head Standalone Body worn Standalone Body worn Simultaneous Handheld Standalone Handheld Simultaneous					Ant 7 Head Simultaneous		Ant 7 Hotspot		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11b 1Mbps		1	2412	18.90	19.00	15.70	16.00	17.80	18.00	99.20
		6	2437	18.60	19.00	15.70	16.00	17.50	18.00	
		11	2462	18.90	19.00	15.70	16.00	17.80	18.00	
802.11g 6Mbps		1	2412	17.30	17.50	Not Required	16.00	Not Required	18.00	98.30
		6	2437	17.20	17.50		16.00		18.00	
		11	2462	17.40	17.50		16.00		18.00	
802.11n-HT20 MCS0		1	2412	17.20	17.50		16.00		18.00	98.20
		6	2437	17.40	17.50		16.00		18.00	
		11	2462	17.40	17.50		16.00		18.00	
802.11n-HT40 MCS0		3	2422	16.90	17.00		16.00		18.00	94.90
		6	2437	16.30	17.00		16.00		18.00	
		9	2452	15.10	17.00		16.00		18.00	
802.11ac-VHT20 MCS0		1	2412	17.10	17.50		16.00		18.00	98.20
		6	2437	17.30	17.50		16.00		18.00	
		11	2462	17.30	17.50		16.00		18.00	
802.11ac-VHT40 MCS0		3	2422	16.80	17.00		16.00		18.00	95.00
		6	2437	16.20	17.00		16.00		18.00	
		9	2452	15.00	17.00		16.00		18.00	



<5GHz WLAN>

5.2GHz WLAN	Ant 7 Full power Head Standalone Body worn Standalone Handheld Standalone					Ant 7 Head Simultaneous		Ant 7 Hotspot		Ant 7 Body worn Simultaneous Handheld Simultaneous		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
	802.11a 6Mbps	36	5180	17.80	18.00	Not Required	13.00	Not Required	17.00	Not Required	15.00	98.30
		40	5200	17.90	18.00		13.00		17.00		15.00	
		44	5220	17.70	18.00		13.00		17.00		15.00	
		48	5240	17.70	18.00		13.00		17.00		15.00	
	802.11n-HT20 MCS0	36	5180	17.90	18.00		13.00	Not Required	17.00	Not Required	15.00	98.20
		40	5200	17.90	18.00		13.00		17.00		15.00	
		44	5220	17.80	18.00		13.00		17.00		15.00	
		48	5240	17.60	18.00		13.00		17.00		15.00	
	802.11n-HT40 MCS0	38	5190	16.90	17.50		13.00	16.50	17.00	14.80	15.00	96.40
		46	5230	17.30	17.50		13.00	16.70	17.00	14.80	15.00	
	802.11ac-VHT20 MCS0	36	5180	17.80	18.00		13.00	Not Required	17.00	Not Required	15.00	98.20
		40	5200	17.80	18.00		13.00		17.00		15.00	
		44	5220	17.70	18.00		13.00		17.00		15.00	
		48	5240	17.50	18.00		13.00		17.00		15.00	
	802.11ac-VHT40 MCS0	38	5190	16.80	17.50		13.00		17.00		15.00	96.50
		46	5230	17.20	17.50		13.00		17.00		15.00	
	802.11ac-VHT80 MCS0	42	5210	14.10	15.00	12.40	13.00		14.00		14.00	92.90

5.3GHz WLAN	Ant 7 Full power Head Standalone Body worn Standalone Handheld Standalone					Ant 7 Head Simultaneous		Ant 7 Body worn Simultaneous Handheld Simultaneous		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
	802.11a 6Mbps	52	5260	17.90	18.00	Not Required	13.00	Not Required	15.00	98.30
		56	5280	17.80	18.00		13.00		15.00	
		60	5300	17.80	18.00		13.00		15.00	
		64	5320	17.70	18.00		13.00		15.00	
	802.11n-HT20 MCS0	52	5260	17.80	18.00		13.00		15.00	98.20
		56	5280	17.90	18.00		13.00		15.00	
		60	5300	17.90	18.00		13.00		15.00	
		64	5320	17.90	18.00		13.00		15.00	
	802.11n-HT40 MCS0	54	5270	16.90	17.50		13.00		15.00	96.40
		62	5310	15.30	16.00		13.00		15.00	
	802.11ac-VHT20 MCS0	52	5260	17.70	18.00		13.00		15.00	98.20
		56	5280	17.80	18.00		13.00		15.00	
		60	5300	17.80	18.00		13.00		15.00	
		64	5320	17.80	18.00		13.00		15.00	
	802.11ac-VHT40 MCS0	54	5270	16.80	17.50		13.00		15.00	96.50
		62	5310	15.20	16.00		13.00		15.00	
	802.11ac-VHT80 MCS0	58	5290	14.7	16.00	12.5	13.00	14.7	15.00	92.90

	Ant 7 Full power Head Standalone Body worn Standalone Handheld Standalone					Ant 7 Head Simultaneous		Ant 7 Body worn Simultaneous Handheld Simultaneous		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.80	18.00	Not Required	13.50	Not Required	14.50	98.30
		116	5580	17.90	18.00		13.50		14.50	
		124	5620	17.70	18.00		13.50		14.50	
		132	5660	17.90	18.00		13.50		14.50	
		140	5700	17.70	18.00		13.50		14.50	
	802.11n-HT20 MCS0	100	5500	17.90	18.00		13.50		14.50	98.20
		116	5580	17.80	18.00		13.50		14.50	
		124	5620	17.80	18.00		13.50		14.50	
		132	5660	17.90	18.00		13.50		14.50	
		140	5700	17.90	18.00		13.50		14.50	
	802.11n-HT40 MCS0	102	5510	17.00	17.50		13.50		14.50	96.40
		110	5550	17.40	17.50		13.50		14.50	
		126	5630	17.30	17.50		13.50		14.50	
		134	5670	17.20	17.50		13.50		14.50	
	802.11ac-VHT20 MCS0	100	5500	17.80	18.00		13.50		14.50	98.20
		116	5580	17.70	18.00		13.50		14.50	
		124	5620	17.70	18.00		13.50		14.50	
		132	5660	17.80	18.00		13.50		14.50	
		140	5700	17.80	18.00		13.50		14.50	
	802.11ac-VHT40 MCS0	102	5510	16.90	17.50		13.50		14.50	96.50
		110	5550	17.30	17.50		13.50		14.50	
		126	5630	17.20	17.50		13.50		14.50	
		134	5670	17.10	17.50		13.50		14.50	
	802.11ac-VHT80 MCS0	106	5530	14.30	15.00	12.80	13.50	13.90	14.50	92.90
		122	5610	16.70	17.00	12.40	13.50	14.10	14.50	

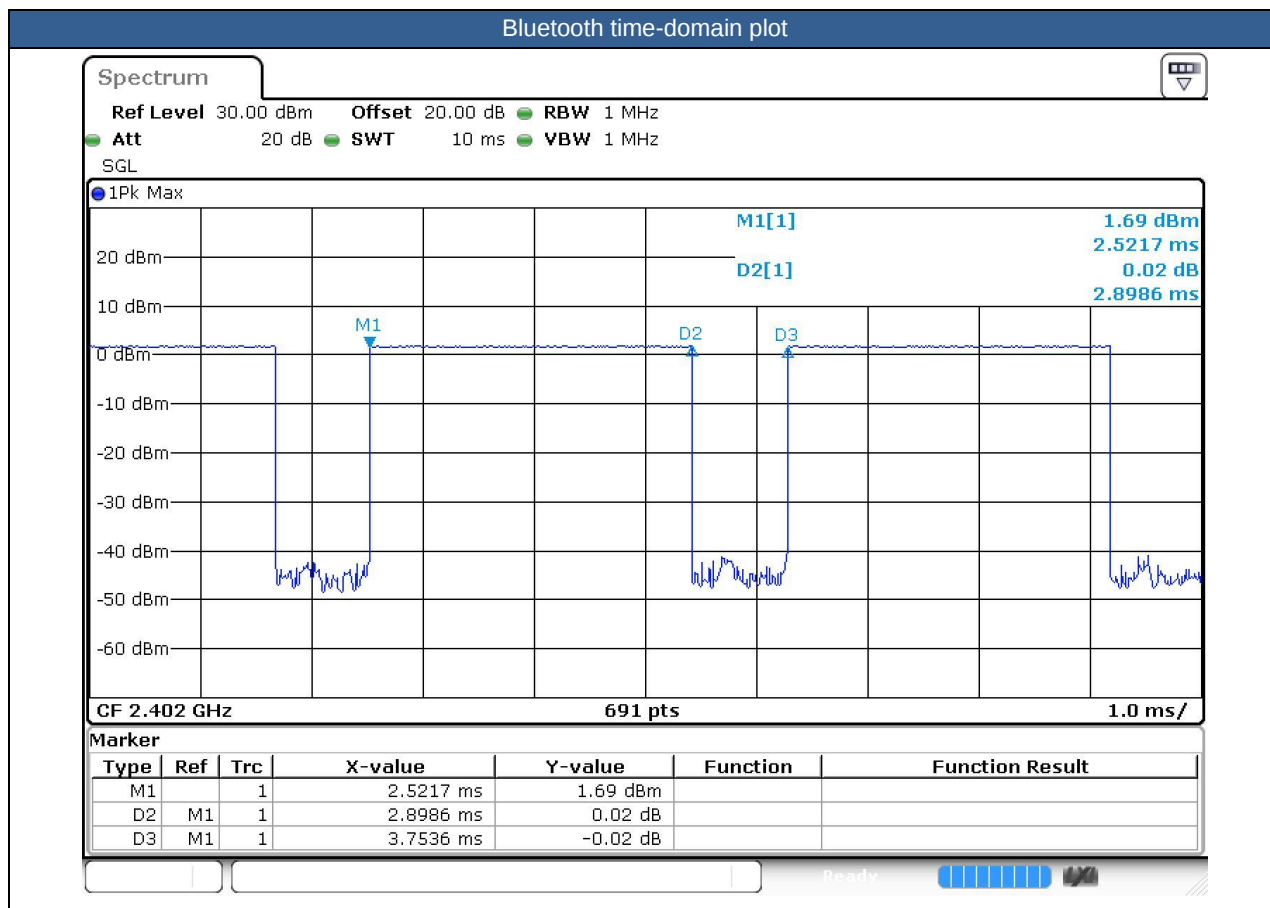


5.8GHz WLAN	Ant 7 Full power Head Standalone Hotspot Body worn Standalone Handheld Standalone					Ant 7 Head Simultaneous		Ant 7 Body worn Simultaneous Handheld Simultaneous		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
5.8GHz WLAN	802.11a 6Mbps	149	5745	17.90	18.00	Not Required	14.50	Not Required	16.00	98.30
		157	5785	17.90	18.00		14.50		16.00	
		165	5825	17.90	18.00		14.50		16.00	
	802.11n-HT20 MCS0	149	5745	17.90	18.00		14.50		16.00	98.20
		157	5785	17.90	18.00		14.50		16.00	
		165	5825	17.80	18.00		14.50		16.00	
	802.11n-HT40 MCS0	151	5755	17.30	17.50		14.50		16.00	96.40
		159	5795	17.30	17.50		14.50		16.00	
	802.11ac-VHT20 MCS0	149	5745	17.80	18.00		14.50		16.00	98.20
		157	5785	17.80	18.00		14.50		16.00	
		165	5825	17.70	18.00		14.50		16.00	
	802.11ac-VHT40 MCS0	151	5755	17.20	17.50		14.50		16.00	96.50
		159	5795	17.20	17.50		14.50		16.00	
	802.11ac-VHT80 MCS0	155	5775	16.90	17.00	14.40	14.50	15.90	16.00	92.90

<2.4GHz Bluetooth>

General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
- The Bluetooth duty cycle is 77.2 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.



Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	2.01	-0.82	-0.79
	CH 39	2441	1.92	-1.15	-1.14
	CH 78	2480	2.10	-0.60	-0.59
Tune-up Limit			3.00	0.00	0.00

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	2.10
	CH 19	2440	1.90
	CH 39	2480	2.20
Tune-up Limit			3.00



14. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The Reported TDD LTE SAR (W/kg) = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
 - f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8W/kg. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
4. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15cm or an overall diagonal dimension > 16cm, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, in this report all the hotspot mode results are < 1.2W/kg.
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power (for handheld on state, the maximum full power means reduced power), including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM1900, WCDMA Band II/IV, LTE Band 2/4/7/38/41, 5G NR n2/n7/n38/n41/n77/n78 and WLAN 5.2/5.3/5.5/5.8GHz therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
6. The device implements the power management and receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. 5G NR n41 / 78 supports HPUE, HPUE power and SAR testing performed separately.
7. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head, body-worn, handheld.
8. 5G NR n41/78 HUPE with higher power, 5G NR n41/78 HUPE SAR can represent power class 3 level SAR.
9. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
10. NSA and SA mode should perform SAR separately. For the bands, when channel bandwidth of SA and NSA is same, and the maximum power of NSA mode is same as SA total power level, SA SAR can represent NSA mode SAR. For the bands, when channel bandwidth of SA and NSA is different, choose the the largest channel bandwidth with maximum power to perform SAR testing, so the largest channel bandwidth SAR can represent the smallest channel bandwidth SAR.
11. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.

12. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
13. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
14. This device supports 5G NR FR1 bands, including NSA mode and SA mode. NSA and SA mode performed SAR separately.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $> \frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $> \frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B38 SAR test was covered by LTE B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - d. $\pi/2$ BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, $\pi/2$ BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - f. For 5G FR1 n5/n7/n38 /n78 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

2. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
3. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
4. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
5. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
7. Bluetooth and WLAN share the same antenna, with similar work frequency, so for Bluetooth SAR testing, we chose the worst position of WLAN to perform.

DSI status description:

The device has the following DSI state which used at different exposure condition.
 This WWAN bands enabled with Qualcomm Smart Transmit feature which located at chapter 5. The default power is Pmax power, When Plimit power higher than Pmax power, the output power will be limited at Pmax, so the SAR will be used Pmax power to do the testing.

Exposure Condition	DSI Number
Head SAR	DSI 3
Hotspot Mode SAR	DSI 2
Body worn Mode SAR	DSI 1
Product Specific 10g SAR	DSI 1

**15.1 Head SAR**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
835MHz																				
01	GSM850	-	-	-	-	GPRS (2 Tx slots)	Right Cheek	0mm	Ant 0	DSI 3	189	836.4	1	1	30.46	31.50	1.271	0.04	0.271	0.344
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Right Tilted	0mm	Ant 0	DSI 3	189	836.4	1	1	30.46	31.50	1.271	0.15	0.214	0.272
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Left Cheek	0mm	Ant 0	DSI 3	189	836.4	1	1	30.46	31.50	1.271	-0.18	0.181	0.230
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Left Tilted	0mm	Ant 0	DSI 3	189	836.4	1	1	30.46	31.50	1.271	-0.17	0.239	0.304
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 3	4182	836.4	1	1	23.14	24.00	1.219	0.03	0.241	0.294
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 3	4182	836.4	1	1	23.14	24.00	1.219	-0.02	0.182	0.222
02	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 3	4182	836.4	1	1	23.14	24.00	1.219	0.08	0.333	0.406
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 3	4182	836.4	1	1	23.14	24.00	1.219	-0.15	0.195	0.238
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 3	20525	836.5	1	1	22.92	24.00	1.282	-0.05	0.213	0.273
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 3	20525	836.5	1	1	22.07	23.00	1.239	0.12	0.171	0.212
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 3	20525	836.5	1	1	22.92	24.00	1.282	-0.16	0.155	0.199
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 3	20525	836.5	1	1	22.07	23.00	1.239	0.07	0.128	0.159
03	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 3	20525	836.5	1	1	22.92	24.00	1.282	0.04	0.297	0.381
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 3	20525	836.5	1	1	22.07	23.00	1.239	0.19	0.245	0.304
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 3	20525	836.5	1	1	22.92	24.00	1.282	0.1	0.172	0.221
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 3	20525	836.5	1	1	22.07	23.00	1.239	-0.01	0.142	0.176
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 3	167300	836.5	1	1	23.03	24.00	1.250	-0.12	0.225	0.281
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	DSI 3	167300	836.5	1	1	22.91	24.00	1.285	-0.07	0.231	0.297
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 3	167300	836.5	1	1	23.03	24.00	1.250	-0.05	0.158	0.198
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	DSI 3	167300	836.5	1	1	22.91	24.00	1.285	0.02	0.174	0.224
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 3	167300	836.5	1	1	23.03	24.00	1.250	-0.12	0.311	0.389
04	FR1 n5	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	DSI 3	167300	836.5	1	1	22.91	24.00	1.285	0.02	0.336	0.432
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 3	167300	836.5	1	1	23.03	24.00	1.250	-0.07	0.180	0.225
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	DSI 3	167300	836.5	1	1	22.91	24.00	1.285	-0.12	0.197	0.253
1750MHz																				
05	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 3	1413	1732.6	1	1	23.09	24.00	1.233	0.05	0.505	0.623
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 3	1413	1732.6	1	1	23.09	24.00	1.233	-0.15	0.343	0.423
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 3	1413	1732.6	1	1	23.09	24.00	1.233	0.17	0.398	0.491
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 3	1413	1732.6	1	1	23.09	24.00	1.233	-0.07	0.300	0.370
06	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 3	20175	1732.5	1	1	22.63	24.00	1.371	-0.04	0.470	0.644
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 3	20175	1732.5	1	1	21.68	23.00	1.355	0.05	0.381	0.516
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 3	20175	1732.5	1	1	22.63	24.00	1.371	-0.04	0.319	0.437
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 3	20175	1732.5	1	1	21.68	23.00	1.355	-0.13	0.263	0.356
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 3	20175	1732.5	1	1	22.63	24.00	1.371	0.13	0.350	0.480
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 3	20175	1732.5	1	1	21.68	23.00	1.355	-0.01	0.277	0.375
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 3	20175	1732.5	1	1	22.63	24.00	1.371	-0.03	0.280	0.384
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 3	20175	1732.5	1	1	21.68	23.00	1.355	-0.06	0.228	0.309
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 3	349000	1745	1	1	23.22	24.00	1.197	0.01	0.390	0.467
07	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 0	DSI 3	349000	1745	1	1	23.21	24.00	1.199	0.08	0.535	0.642
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 3	349000	1745	1	1	23.22	24.00	1.197	0.08	0.284	0.340
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 0	DSI 3	349000	1745	1	1	23.21	24.00	1.199	-0.17	0.355	0.426
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 3	349000	1745	1	1	23.22	24.00	1.197	0.09	0.302	0.361
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 0	DSI 3	349000	1745	1	1	23.21	24.00	1.199	-0.01	0.393	0.471
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 3	349000	1745	1	1	23.22	24.00	1.197	0.12	0.246	0.294
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 0	DSI 3	349000	1745	1	1	23.21	24.00	1.199	0.08	0.301	0.361



FCC SAR Test Report

Report No. : FA212805

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	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)
1900MHz																						
08	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Right Cheek	0mm	Ant 0	DSI 3	661	1880	1	1	27.84	28.50	1.164	-	-	0.01	0.155	0.180
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Right Tilted	0mm	Ant 0	DSI 3	661	1880	1	1	27.84	28.50	1.164	-	-	-0.14	0.138	0.161
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Left Cheek	0mm	Ant 0	DSI 3	661	1880	1	1	27.84	28.50	1.164	-	-	0.18	0.138	0.161
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Left Tilted	0mm	Ant 0	DSI 3	661	1880	1	1	27.84	28.50	1.164	-	-	-0.15	0.110	0.128
09	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 3	9400	1880	1	1	23.25	24.00	1.189	-	-	0.05	0.250	0.297
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 3	9400	1880	1	1	23.25	24.00	1.189	-	-	-0.07	0.217	0.258
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 3	9400	1880	1	1	23.25	24.00	1.189	-	-	0.03	0.244	0.290
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 3	9400	1880	1	1	23.25	24.00	1.189	-	-	0.1	0.163	0.194
10	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 3	18900	1880	1	1	22.54	24.00	1.400	-	-	0.01	0.210	0.294
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 3	18900	1880	1	1	21.67	23.00	1.358	-	-	0.04	0.169	0.230
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 3	18900	1880	1	1	22.54	24.00	1.400	-	-	-0.15	0.191	0.267
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 3	18900	1880	1	1	21.67	23.00	1.358	-	-	0.14	0.158	0.215
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 3	18900	1880	1	1	22.54	24.00	1.400	-	-	0.03	0.203	0.284
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 3	18900	1880	1	1	21.67	23.00	1.358	-	-	-0.06	0.163	0.221
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 3	18900	1880	1	1	22.54	24.00	1.400	-	-	-0.16	0.154	0.216
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 3	18900	1880	1	1	21.67	23.00	1.358	-	-	0.09	0.118	0.160
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 3	376000	1880	1	1	23.27	24.00	1.183	-	-	-0.04	0.205	0.243
11	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	DSI 3	376000	1880	1	1	23.09	24.00	1.233	-	-	0.02	0.223	0.275
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 3	376000	1880	1	1	23.27	24.00	1.183	-	-	0.11	0.181	0.214
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	DSI 3	376000	1880	1	1	23.09	24.00	1.233	-	-	0.04	0.187	0.231
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 3	376000	1880	1	1	23.27	24.00	1.183	-	-	0.16	0.194	0.230
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	DSI 3	376000	1880	1	1	23.09	24.00	1.233	-	-	0.14	0.201	0.248
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 3	376000	1880	1	1	23.27	24.00	1.183	-	-	-0.13	0.132	0.156
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	DSI 3	376000	1880	1	1	23.09	24.00	1.233	-	-	-0.19	0.140	0.173
2600MHz																						
12	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 3	21100	2535	1	1	17.56	18.20	1.159	-	-	-0.16	1.020	1.182
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 3	20850	2510	1	1	17.46	18.20	1.186	-	-	-0.06	0.996	1.181
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 3	21350	2560	1	1	17.53	18.20	1.167	-	-	0.18	1.010	1.178
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 3	21100	2535	1	1	17.51	18.20	1.172	-	-	-0.12	0.837	0.981
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 3	20850	2510	1	1	17.39	18.20	1.205	-	-	-0.12	0.834	1.005
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 3	21350	2560	1	1	17.45	18.20	1.189	-	-	-0.05	0.857	1.019
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	DSI 3	21100	2535	1	1	17.48	18.20	1.180	-	-	0.06	0.834	0.984
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 3	21100	2535	1	1	17.56	18.20	1.159	-	-	-0.17	0.867	1.005
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 3	20850	2510	1	1	17.46	18.20	1.186	-	-	-0.05	0.834	0.989
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 3	21350	2560	1	1	17.53	18.20	1.167	-	-	-0.06	0.864	1.008
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 3	21100	2535	1	1	17.51	18.20	1.172	-	-	-0.03	0.711	0.833
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 3	20850	2510	1	1	17.39	18.20	1.205	-	-	0.06	0.701	0.845
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 3	21350	2560	1	1	17.45	18.20	1.189	-	-	0.11	0.734	0.872
	LTE Band 7	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 2	DSI 3	21100	2535	1	1	17.48	18.20	1.180	-	-	0.14	0.711	0.839
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 3	21100	2535	1	1	17.56	18.20	1.159	-	-	-0.09	0.445	0.516
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 3	21100	2535	1	1	17.51	18.20	1.172	-	-	-0.02	0.362	0.424
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 3	21100	2535	1	1	17.56	18.20	1.159	-	-	-0.06	0.478	0.554
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 3	21100	2535	1	1	17.51	18.20	1.172	-	-	0.14	0.399	0.468
	FR1 n7	50M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 3	507000	2535	1	1	16.99	18.10	1.291	-	-	0.08	0.708	0.914
	FR1 n7	50M	QPSK	135	68	DFT-15	Right Cheek	0mm	Ant 2	DSI 3	507000	2535	1	1	16.92	18.10	1.312	-	-	0.14	0.824	1.081
13	FR1 n7	50M	QPSK	270	0	DFT-15	Right Cheek	0mm	Ant 2	DSI 3	507000	2535	1	1	16.91	18.10	1.315	-	-	0.03	0.899	1.182
	FR1 n7	50M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 3	507000	2535	1	1	16.99	18.10	1.291	-	-	-0.16	0.641	0.828
	FR1 n7	50M	QPSK	135	68	DFT-15	Right Tilted	0mm	Ant 2	DSI 3	507000	2535	1	1	16.92	18.10	1.312	-	-	0.14	0.753	0.988
	FR1 n7	50M	QPSK	270	0	DFT-15	Right Tilted	0mm	Ant 2	DSI 3	507000	2535	1	1	16.91	18.10	1.315	-	-	0.02	0.747	0.982
	FR1 n7	50M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 3	507000	2535	1	1	16.99	18.10	1.291	-	-	-0.12	0.315	0.407
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Cheek	0mm	Ant 2	DSI 3	507000	2535	1	1	16.92	18.10	1.312		1.000	0.19	0.397	0.521



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	FR1 n7	50M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 3	507000	2535	1	1	16.99	18.10	1.291	1.000	-0.17	0.325	0.420	
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Tilted	0mm	Ant 2	DSI 3	507000	2535	1	1	16.92	18.10	1.312	1.000	-0.03	0.416	0.546	
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 3	40620	2593	1	1	19.88	20.50	1.153	62.9	1.006	0.19	0.962	1.116
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 3	39750	2506	1	1	19.65	20.50	1.216	62.9	1.006	-0.03	0.967	1.183
14	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 3	40185	2549.5	1	1	19.76	20.50	1.186	62.9	1.006	-0.04	0.995	1.187
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 3	41055	2636.5	1	1	19.70	20.50	1.202	62.9	1.006	-0.11	0.956	1.156
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 3	41490	2680	1	1	19.81	20.50	1.172	62.9	1.006	-0.02	0.945	1.114
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 3	40620	2593	1	1	19.72	20.50	1.197	62.9	1.006	-0.12	0.812	0.978
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 3	39750	2506	1	1	19.68	20.50	1.208	62.9	1.006	-0.07	0.806	0.979
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 3	40185	2549.5	1	1	19.62	20.50	1.225	62.9	1.006	0.17	0.845	1.041
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 3	41055	2636.5	1	1	19.70	20.50	1.202	62.9	1.006	-0.16	0.806	0.975
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 3	41490	2680	1	1	19.71	20.50	1.199	62.9	1.006	-0.01	0.784	0.946
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	DSI 3	40620	2593	1	1	19.68	20.50	1.208	62.9	1.006	0.09	0.806	0.979
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 3	40620	2593	1	1	19.88	20.50	1.153	62.9	1.006	-0.01	0.845	0.981
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 3	39750	2506	1	1	19.65	20.50	1.216	62.9	1.006	0.03	0.817	1.000
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 3	40185	2549.5	1	1	19.76	20.50	1.186	62.9	1.006	0.01	0.867	1.034
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 3	41055	2636.5	1	1	19.70	20.50	1.202	62.9	1.006	-0.13	0.856	1.035
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 3	41490	2680	1	1	19.81	20.50	1.172	62.9	1.006	0.06	0.839	0.989
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 3	40620	2593	1	1	19.72	20.50	1.197	62.9	1.006	0.1	0.700	0.843
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 3	39750	2506	1	1	19.68	20.50	1.208	62.9	1.006	-0.05	0.684	0.831
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 3	40185	2549.5	1	1	19.62	20.50	1.225	62.9	1.006	-0.1	0.717	0.883
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 3	41055	2636.5	1	1	19.70	20.50	1.202	62.9	1.006	-0.03	0.706	0.854
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 3	41490	2680	1	1	19.71	20.50	1.199	62.9	1.006	0.06	0.706	0.852
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 2	DSI 3	40620	2593	1	1	19.68	20.50	1.208	62.9	1.006	0.08	0.695	0.844
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 3	40620	2593	1	1	19.88	20.50	1.153	62.9	1.006	0.11	0.433	0.502
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 3	40620	2593	1	1	19.72	20.50	1.197	62.9	1.006	-0.16	0.362	0.436
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 3	40620	2593	1	1	19.88	20.50	1.153	62.9	1.006	-0.08	0.485	0.563
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 3	40620	2593	1	1	19.72	20.50	1.197	62.9	1.006	0.05	0.407	0.490
15	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 3	518598	2592.99	1	1	17.69	19.00	1.352	-	-	-0.03	0.880	1.190
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 3	518598	2592.99	1	2	17.69	19.00	1.352	-	-	-0.02	0.832	1.125
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 3	518598	2592.99	2	1	17.69	19.00	1.352	-	-	-0.09	0.855	1.156
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	DSI 3	518598	2592.99	1	1	17.63	19.00	1.371	-	-	0.03	0.861	1.180
	FR1 n41-HPUE	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 2	DSI 3	518598	2592.99	1	1	17.60	19.00	1.380	-	-	0.05	0.784	1.082
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 3	518598	2592.99	1	1	17.69	19.00	1.352	-	-	0.15	0.800	1.082
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	DSI 3	518598	2592.99	1	1	17.63	19.00	1.371	-	-	-0.01	0.796	1.091
	FR1 n41-HPUE	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 2	DSI 3	518598	2592.99	1	1	17.60	19.00	1.380	-	-	-0.05	0.684	0.944
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 3	518598	2592.99	1	1	17.69	19.00	1.352	-	-	-0.06	0.414	0.560
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	DSI 3	518598	2592.99	1	1	17.63	19.00	1.371	-	-	0.14	0.430	0.589
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 3	518598	2592.99	1	1	17.69	19.00	1.352	-	-	-0.12	0.446	0.603
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	DSI 3	518598	2592.99	1	1	17.63	19.00	1.371	-	-	0.13	0.466	0.639
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	DSI 3	518598	2592.99	1	1	20.19	21.00	1.205	-	-	0.09	0.039	0.047
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	DSI 3	518598	2592.99	1	1	20.15	21.00	1.216	-	-	0.14	0.018	0.022
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	DSI 3	518598	2592.99	1	1	20.19	21.00	1.205	-	-	-0.11	0.010	0.012
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	DSI 3	518598	2592.99	1	1	20.15	21.00	1.216	-	-	-0.17	0.010	0.012
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	DSI 3	518598	2592.99	1	1	20.19	21.00	1.205	-	-	-0.03	0.010	0.012
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	DSI 3	518598	2592.99	1	1	20.15	21.00	1.216	-	-	0.17	0.010	0.012
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	DSI 3	518598	2592.99	1	1	20.19	21.00	1.205	-	-	-0.05	0.010	0.012
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	DSI 3	518598	2592.99	1	1	20.15	21.00	1.216	-	-	0.1	0.010	0.012
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 3	518598	2592.99	1	1	20.21	21.00	1.199	-	-	0.11	0.270	0.324
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 3	518598	2592.99	1	1	20.18	21.00	1.208	-	-	-0.08	0.305	0.368
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 3	518598	2592.99	1	1	20.21	21.00	1.199	-	-	0.05	0.184	0.221
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 3	518598	2592.99	1	1	20.18	21.00	1.208	-	-	-0.05	0.215	0.260
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	518598	2592.99	1	1	20.21	21.00	1.199	-	-	0.18	0.461	0.553
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	518598	2592.99	1	1	20.18	21.00	1.208	-	-	-0.05	0.515	0.622
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 3	518598	2592.99	1	1	20.21	21.00	1.199	-	-	0.03	0.261	0.313



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	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 3	518598	2592.99	1	1	20.18	21.00	1.208	-	-	-0.1	0.302	0.365
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 3	518598	2592.99	1	1	20.57	21.00	1.104	-	-	-0.01	0.270	0.298
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 3	518598	2592.99	1	1	20.14	21.00	1.219	-	-	0.17	0.131	0.160
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 3	518598	2592.99	1	1	20.57	21.00	1.104	-	-	0.03	0.199	0.220
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 3	518598	2592.99	1	1	20.14	21.00	1.219	-	-	0.07	0.111	0.135
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 3	518598	2592.99	1	1	20.57	21.00	1.104	-	-	-0.01	0.297	0.328
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 3	518598	2592.99	1	2	20.57	21.00	1.104	-	-	0.05	0.222	0.245
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 3	518598	2592.99	1	1	20.14	21.00	1.219	-	-	-0.04	0.141	0.172
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 3	518598	2592.99	1	1	20.57	21.00	1.104	-	-	0.04	0.156	0.172
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 3	518598	2592.99	1	1	20.14	21.00	1.219	-	-	0.18	0.087	0.106

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	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)
3500-3900MHz																						
16	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 3	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	-0.04	0.243	0.274
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 3	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	-0.01	0.230	0.257
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 3	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	-0.05	0.150	0.169
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 3	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	-0.14	0.157	0.175
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 3	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	-0.19	0.166	0.187
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 3	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	-0.07	0.180	0.201
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 3	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	-0.07	0.134	0.151
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 3	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	0.12	0.132	0.147
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	656000	3840	1	1	23.47	24.00	1.130	-	-	-0.11	0.431	0.487
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	656000	3840	1	1	23.46	24.00	1.132	-	-	0.08	0.439	0.497
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 3	656000	3840	1	1	23.47	24.00	1.130	-	-	0.18	0.287	0.324
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	DSI 3	656000	3840	1	1	23.46	24.00	1.132	-	-	-0.16	0.305	0.345
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 3	656000	3840	1	1	23.47	24.00	1.130	-	-	-0.06	0.319	0.360
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	DSI 3	656000	3840	1	1	23.46	24.00	1.132	-	-	-0.07	0.275	0.311
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 3	656000	3840	1	1	23.47	24.00	1.130	-	-	-0.02	0.257	0.290
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	DSI 3	656000	3840	1	1	23.46	24.00	1.132	-	-	0.14	0.246	0.279
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	23.40	24.00	1.148	-	-	-0.05	0.575	0.660
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	23.25	24.00	1.189	-	-	0.17	0.547	0.650
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 3	633334	3500.01	1	1	23.40	24.00	1.148	-	-	0.03	0.393	0.451
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	DSI 3	633334	3500.01	1	1	23.25	24.00	1.189	-	-	0.07	0.336	0.399
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	23.40	24.00	1.148	-	-	-0.02	0.382	0.439
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	23.25	24.00	1.189	-	-	0.18	0.313	0.372
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 3	633334	3500.01	1	1	23.40	24.00	1.148	-	-	-0.01	0.381	0.437
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	DSI 3	633334	3500.01	1	1	23.25	24.00	1.189	-	-	-0.15	0.300	0.357
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	DSI 3	656000	3840	1	1	19.28	20.00	1.180	-	-	-0.09	0.127	0.150
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	DSI 3	656000	3840	1	1	19.04	20.00	1.247	-	-	-0.05	0.060	0.075
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	DSI 3	656000	3840	1	1	19.28	20.00	1.180	-	-	-0.1	0.072	0.085
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	DSI 3	656000	3840	1	1	19.04	20.00	1.247	-	-	-0.19	0.097	0.121
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	DSI 3	656000	3840	1	1	19.28	20.00	1.180	-	-	0.01	0.098	0.116
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	DSI 3	656000	3840	1	1	19.04	20.00	1.247	-	-	0.18	0.111	0.138
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	DSI 3	656000	3840	1	1	19.28	20.00	1.180	-	-	0.17	0.000	0.000
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	DSI 3	656000	3840	1	1	19.04	20.00	1.247	-	-	0.15	0.071	0.089
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant1	DSI 3	633334	3500.01	1	1	18.71	20.00	1.346	-	-	-0.03	0.051	0.069
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant1	DSI 3	633334	3500.01	1	1	18.52	20.00	1.406	-	-	-0.12	0.035	0.049
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant1	DSI 3	633334	3500.01	1	1	18.71	20.00	1.346	-	-	-0.03	0.000	0.000
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant1	DSI 3	633334	3500.01	1	1	18.52	20.00	1.406	-	-	-0.06	0.042	0.059
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant1	DSI 3	633334	3500.01	1	1	18.71	20.00	1.346	-	-	0.01	0.059	0.079
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant1	DSI 3	633334	3500.01	1	1	18.52	20.00	1.406	-	-	0.11	0.051	0.072
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant1	DSI 3	633334	3500.01	1	1	18.71	20.00	1.346	-	-	-0.09	0.000	0.000
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant1	DSI 3	633334	3500.01	1	1	18.52	20.00	1.406	-	-	-0.17	0.041	0.058
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 3	656000	3840	1	1	19.75	20.00	1.059	-	-	-0.03	0.209	0.221



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	FR1 n77 Part270	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 3	656000	3840	1	1	19.65	20.00	1.084	-	-	0.02	0.139	0.151
	FR1 n77 Part270	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 3	656000	3840	1	1	19.75	20.00	1.059	-	-	-0.04	0.166	0.176
	FR1 n77 Part270	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 3	656000	3840	1	1	19.65	20.00	1.084	-	-	0.18	0.111	0.120
	FR1 n77 Part270	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	656000	3840	1	1	19.75	20.00	1.059	-	-	0.01	0.535	0.567
	FR1 n77 Part270	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	656000	3840	1	2	19.75	20.00	1.059	-	-	-0.12	0.417	0.442
	FR1 n77 Part270	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	656000	3840	1	1	19.65	20.00	1.084	-	-	-0.13	0.363	0.393
	FR1 n77 Part270	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 3	656000	3840	1	1	19.75	20.00	1.059	-	-	-0.03	0.307	0.325
	FR1 n77 Part270	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 3	656000	3840	1	1	19.65	20.00	1.084	-	-	0.16	0.193	0.209
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	1	19.30	20.00	1.175	-	-	-0.15	0.256	0.301
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	1	19.15	20.00	1.216	-	-	-0.11	0.256	0.311
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 3	633334	3500.01	1	1	19.30	20.00	1.175	-	-	0.16	0.155	0.182
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 3	633334	3500.01	1	1	19.15	20.00	1.216	-	-	-0.15	0.161	0.196
17	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	1	19.30	20.00	1.175	-	-	0.05	0.606	0.712
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	1	19.15	20.00	1.216	-	-	0.12	0.581	0.707
	FR1 n77_Part27Q	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	1	19.02	20.00	1.253	-	-	-0.03	0.535	0.670
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 3	633334	3500.01	1	1	19.30	20.00	1.175	-	-	-0.15	0.296	0.348
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 3	633334	3500.01	1	1	19.15	20.00	1.216	-	-	0.14	0.299	0.364
	FR1 n77 Part270	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 3	656000	3840	1	1	19.31	20.00	1.172	-	-	-0.09	0.226	0.265
	FR1 n77 Part270	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 3	656000	3840	1	1	19.12	20.00	1.225	-	-	0.05	0.178	0.218
	FR1 n77 Part270	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 3	656000	3840	1	1	19.31	20.00	1.172	-	-	0.08	0.057	0.067
	FR1 n77 Part270	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 3	656000	3840	1	1	19.12	20.00	1.225	-	-	-0.02	0.061	0.075
	FR1 n77 Part270	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 3	656000	3840	1	1	19.31	20.00	1.172	-	-	0.01	0.268	0.314
	FR1 n77 Part270	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 3	656000	3840	1	2	19.31	20.00	1.172	-	-	-0.15	0.213	0.250
	FR1 n77 Part270	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 3	656000	3840	1	1	19.12	20.00	1.225	-	-	-0.06	0.253	0.310
	FR1 n77 Part270	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 3	656000	3840	1	1	19.31	20.00	1.172	-	-	0.04	0.132	0.155
	FR1 n77 Part270	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 3	656000	3840	1	1	19.12	20.00	1.225	-	-	0.07	0.130	0.159
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 3	633334	3500.01	1	1	19.41	20.00	1.146	-	-	-0.05	0.275	0.315
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 3	633334	3500.01	1	1	19.39	20.00	1.151	-	-	-0.11	0.250	0.288
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 3	633334	3500.01	1	1	19.41	20.00	1.146	-	-	-0.03	0.074	0.085
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 3	633334	3500.01	1	1	19.39	20.00	1.151	-	-	0.05	0.063	0.073
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 3	633334	3500.01	1	1	19.41	20.00	1.146	-	-	-0.06	0.240	0.275
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 3	633334	3500.01	1	1	19.39	20.00	1.151	-	-	0.16	0.208	0.239
	FR1 n77_Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 3	633334	3500.01	1	1	19.41	20.00	1.146	-	-	-0.05	0.117	0.134
	FR1 n77_Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 3	633334	3500.01	1	1	19.39	20.00	1.151	-	-	-0.1	0.119	0.137
	FR1 n78_HPUE_Part270	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	650000	3750	1	1	26.49	27.00	1.125	-	-	-0.19	0.540	0.607
	FR1 n78_HPUE_Part270	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	650000	3750	1	1	26.41	27.00	1.146	-	-	0.01	0.571	0.654
	FR1 n78_HPUE_Part270	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 3	650000	3750	1	1	26.49	27.00	1.125	-	-	-0.09	0.394	0.443
	FR1 n78_HPUE_Part270	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	DSI 3	650000	3750	1	1	26.41	27.00	1.146	-	-	-0.05	0.390	0.447
	FR1 n78_HPUE_Part270	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 3	650000	3750	1	1	26.49	27.00	1.125	-	-	0.05	0.376	0.423
	FR1 n78_HPUE_Part270	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	DSI 3	650000	3750	1	1	26.41	27.00	1.146	-	-	-0.1	0.474	0.543
	FR1 n78_HPUE_Part270	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 3	650000	3750	1	1	26.49	27.00	1.125	-	-	0.01	0.322	0.362
	FR1 n78_HPUE_Part270	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	DSI 3	650000	3750	1	1	26.41	27.00	1.146	-	-	0.01	0.363	0.416
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	26.45	27.00	1.135	-	-	-0.01	0.872	0.990
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	2	26.45	27.00	1.135	-	-	0.05	0.870	0.987
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	26.37	27.00	1.156	-	-	-0.08	0.813	0.940
	FR1 n78_HPUE_Part27Q	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	25.39	26.00	1.151	-	-	-0.13	0.669	0.770
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 3	633334	3500.01	1	1	26.45	27.00	1.135	-	-	0.03	0.592	0.672
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	DSI 3	633334	3500.01	1	1	26.37	27.00	1.156	-	-	-0.13	0.487	0.563
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	26.45	27.00	1.135	-	-	-0.03	0.537	0.610
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	26.37	27.00	1.156	-	-	-0.08	0.490	0.566
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 3	633334	3500.01	1	1	26.45	27.00	1.135	-	-	-0.1	0.537	0.610
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	DSI 3	633334	3500.01	1	1	26.37	27.00	1.156	-	-	0.18	0.423	0.489
	FR1 n78_Part270	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	DSI 3	650000	3750	1	1	19.43	21.00	1.435	-	-	0.14	0.094	0.135
	FR1 n78_Part270	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	DSI 3	650000	3750	1	1	19.12	21.00	1.542	-	-	0.11	0.085	0.131
	FR1 n78_Part270	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	DSI 3	650000	3750	1	1	19.43	21.00	1.435	-	-	0.1	0.077	0.111



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	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	DSI 3	650000	3750	1	1	19.12	21.00	1.542	-	-	0.16	0.076	0.117
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	DSI 3	650000	3750	1	1	19.43	21.00	1.435	-	-	-0.03	0.138	0.198
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	DSI 3	650000	3750	1	1	19.12	21.00	1.542	-	-	-0.14	0.115	0.177
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	DSI 3	650000	3750	1	1	19.43	21.00	1.435	-	-	-0.06	0.057	0.082
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	DSI 3	650000	3750	1	1	19.12	21.00	1.542	-	-	0.02	0.067	0.103
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	DSI 3	633334	3500.01	1	1	19.55	21.00	1.396	-	-	-0.13	0.041	0.057
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	DSI 3	633334	3500.01	1	1	19.52	21.00	1.406	-	-	-0.18	0.040	0.056
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	DSI 3	633334	3500.01	1	1	19.55	21.00	1.396	-	-	0.12	0.010	0.014
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	DSI 3	633334	3500.01	1	1	19.52	21.00	1.406	-	-	-0.14	0.038	0.053
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	DSI 3	633334	3500.01	1	1	19.55	21.00	1.396	-	-	0.05	0.070	0.098
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	DSI 3	633334	3500.01	1	1	19.52	21.00	1.406	-	-	-0.01	0.086	0.121
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	DSI 3	633334	3500.01	1	1	19.55	21.00	1.396	-	-	-0.15	0.010	0.014
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	DSI 3	633334	3500.01	1	1	19.52	21.00	1.406	-	-	-0.02	0.010	0.014
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 3	650000	3750	1	1	20.58	21.00	1.102	-	-	0.13	0.431	0.475
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 3	650000	3750	1	1	20.37	21.00	1.156	-	-	-0.15	0.317	0.366
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 3	650000	3750	1	1	20.58	21.00	1.102	-	-	-0.15	0.309	0.340
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 3	650000	3750	1	1	20.37	21.00	1.156	-	-	-0.05	0.234	0.271
18	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	650000	3750	1	1	20.58	21.00	1.102	-	-	0.05	0.956	1.053
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	650000	3750	1	2	20.58	21.00	1.102	-	-	-0.02	0.861	0.948
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	650000	3750	1	1	20.37	21.00	1.156	-	-	0.03	0.799	0.924
	FR1 n78_Part27O	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	650000	3750	1	1	20.31	21.00	1.172	-	-	0.18	0.792	0.928
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 3	650000	3750	1	1	20.58	21.00	1.102	-	-	0.02	0.563	0.620
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 3	650000	3750	1	1	20.37	21.00	1.156	-	-	0.12	0.444	0.513
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	1	20.43	21.00	1.140	-	-	-0.12	0.334	0.381
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	1	20.42	21.00	1.143	-	-	-0.01	0.342	0.391
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 3	633334	3500.01	1	1	20.43	21.00	1.140	-	-	0.1	0.220	0.251
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 3	633334	3500.01	1	1	20.42	21.00	1.143	-	-	0.02	0.229	0.262
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	1	20.43	21.00	1.140	-	-	0.05	0.806	0.919
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	2	20.43	21.00	1.140	-	-	-0.08	0.754	0.860
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	1	20.42	21.00	1.143	-	-	0.17	0.763	0.872
	FR1 n78_Part27Q	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	633334	3500.01	1	1	20.29	21.00	1.178	-	-	0.16	0.735	0.866
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 3	633334	3500.01	1	1	20.43	21.00	1.140	-	-	-0.16	0.410	0.468
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 3	633334	3500.01	1	1	20.42	21.00	1.143	-	-	0.14	0.399	0.456
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 3	650000	3750	1	1	20.25	21.00	1.189	-	-	0.14	0.263	0.313
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 3	650000	3750	1	1	20.22	21.00	1.197	-	-	-0.02	0.246	0.294
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 3	650000	3750	1	1	20.25	21.00	1.189	-	-	-0.16	0.056	0.067
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 3	650000	3750	1	1	20.22	21.00	1.197	-	-	-0.07	0.051	0.061
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 3	650000	3750	1	1	20.25	21.00	1.189	-	-	-0.15	0.243	0.289
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 3	650000	3750	1	1	20.22	21.00	1.197	-	-	-0.09	0.282	0.337
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 3	650000	3750	1	1	20.25	21.00	1.189	-	-	0.1	0.120	0.143
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 3	650000	3750	1	1	20.22	21.00	1.197	-	-	0.1	0.102	0.122
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 3	633334	3500.01	1	1	20.33	21.00	1.167	-	-	0.02	0.362	0.422
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 3	633334	3500.01	1	1	20.27	21.00	1.183	-	-	-0.13	0.340	0.402
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 3	633334	3500.01	1	1	20.33	21.00	1.167	-	-	0.19	0.099	0.116
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 3	633334	3500.01	1	1	20.27	21.00	1.183	-	-	-0.09	0.071	0.084
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 3	633334	3500.01	1	1	20.33	21.00	1.167	-	-	-0.02	0.314	0.366
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 3	633334	3500.01	1	1	20.27	21.00	1.183	-	-	0.1	0.291	0.344
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 3	633334	3500.01	1	1	20.33	21.00	1.167	-	-	-0.15	0.171	0.200
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 3	633334	3500.01	1	1	20.27	21.00	1.183	-	-	0.1	0.152	0.180



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	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)
WIFI&BT																		
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant7	Standalone	11	2462	1	1	18.90	19.00	1.023	99.2	1.008	-0.01	0.307	0.317
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant7	Standalone	11	2462	1	1	18.90	19.00	1.023	99.2	1.008	0.09	0.298	0.307
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant7	Standalone	11	2462	1	1	18.90	19.00	1.023	99.2	1.008	-0.03	0.451	0.465
19	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant7	Standalone	11	2462	1	1	18.90	19.00	1.023	99.2	1.008	0.01	0.515	0.531
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant7	Simultaneous	11	2462	1	1	15.70	16.00	1.072	99.2	1.008	-0.05	0.301	0.325
20	Bluetooth	1Mbps	Left Tilted	0mm	Ant7	Full	78	2480	1	1	2.10	3.00	1.230	77.2	1.295	-0.01	0.010	0.017
	WLAN5.3GHz	802.11a 6Mbps	Right Cheek	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	0.03	0.745	0.775
	WLAN5.3GHz	802.11a 6Mbps	Right Tilted	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	-0.09	0.817	0.850
	WLAN5.3GHz	802.11a 6Mbps	Right Tilted	0mm	Ant7	Standalone	56	5280	1	1	17.80	18.00	1.047	98.3	1.017	0.05	0.789	0.840
	WLAN5.3GHz	802.11a 6Mbps	Left Cheek	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	0.04	0.994	1.034
	WLAN5.3GHz	802.11a 6Mbps	Left Cheek	0mm	Ant7	Standalone	56	5280	1	1	17.80	18.00	1.047	98.3	1.017	-0.01	0.933	0.994
21	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	-0.19	1.030	1.072
	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	52	5260	1	2	17.90	18.00	1.023	98.3	1.017	-0.06	0.949	0.988
	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	56	5280	1	1	17.80	18.00	1.047	98.3	1.017	0.02	0.962	1.024
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant7	Simultaneous	58	5290	1	1	12.50	13.00	1.122	92.9	1.076	-0.01	0.327	0.395
	WLAN5.5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	0.01	0.809	0.842
	WLAN5.5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant7	Standalone	132	5660	1	1	17.90	18.00	1.023	98.3	1.017	0.05	0.768	0.799
	WLAN5.5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	-0.05	0.890	0.926
	WLAN5.5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant7	Standalone	132	5660	1	1	17.90	18.00	1.023	98.3	1.017	0.09	0.831	0.865
	WLAN5.5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	0.03	0.963	1.002
	WLAN5.5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant7	Standalone	132	5660	1	1	17.90	18.00	1.023	98.3	1.017	-0.11	0.925	0.963
22	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	0.03	0.965	1.004
	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	116	5580	1	2	17.90	18.00	1.023	98.3	1.017	0.08	0.893	0.929
	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	132	5660	1	1	17.90	18.00	1.023	98.3	1.017	0.14	0.915	0.952
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant7	Simultaneous	106	5530	1	1	12.80	13.50	1.175	92.9	1.076	-0.01	0.311	0.393
	WLAN5.8GHz	802.11a 6Mbps	Right Cheek	0mm	Ant7	Standalone	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	0.03	0.541	0.563
	WLAN5.8GHz	802.11a 6Mbps	Right Tilted	0mm	Ant7	Standalone	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	-0.02	0.670	0.697
	WLAN5.8GHz	802.11a 6Mbps	Left Cheek	0mm	Ant7	Standalone	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	0.01	0.624	0.649
23	WLAN5.8GHz	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	-0.04	0.729	0.759
	WLAN5.8GHz	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	149	5745	1	2	17.90	18.00	1.023	98.3	1.017	-0.17	0.686	0.714
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant7	Simultaneous	155	5775	1	1	14.40	14.50	1.023	92.9	1.076	0.05	0.325	0.358



15.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
835MHz																				
24	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	10mm	Ant 0	DSI 2	189	836.4	1	1	30.46	31.50	1.271	0.02	0.322	0.409
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	10mm	Ant 0	DSI 2	189	836.4	1	1	30.46	31.50	1.271	-0.09	0.368	0.468
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Left Side	10mm	Ant 0	DSI 2	189	836.4	1	1	30.46	31.50	1.271	-0.01	0.281	0.357
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Right Side	10mm	Ant 0	DSI 2	189	836.4	1	1	30.46	31.50	1.271	0.08	0.257	0.327
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Bottom Side	10mm	Ant 0	DSI 2	189	836.4	1	1	30.46	31.50	1.271	0.09	0.095	0.121
25	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 2	4182	836.4	1	1	23.14	24.00	1.219	0.08	0.385	0.469
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 2	4182	836.4	1	1	23.14	24.00	1.219	-0.08	0.416	0.507
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	DSI 2	4182	836.4	1	1	23.14	24.00	1.219	0.07	0.311	0.379
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI 2	4182	836.4	1	1	23.14	24.00	1.219	0.02	0.246	0.300
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 2	4182	836.4	1	1	23.14	24.00	1.219	0.13	0.132	0.161
26	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 2	20525	836.5	1	1	22.92	24.00	1.282	0.09	0.348	0.446
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 2	20525	836.5	1	1	22.07	23.00	1.239	0.04	0.279	0.346
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 2	20525	836.5	1	1	22.92	24.00	1.282	0.04	0.366	0.469
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 2	20525	836.5	1	1	22.07	23.00	1.239	-0.02	0.301	0.373
	LTE Band 5	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 2	20525	836.5	1	1	22.92	24.00	1.282	0.08	0.271	0.348
	LTE Band 5	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DSI 2	20525	836.5	1	1	22.07	23.00	1.239	0.06	0.219	0.271
	LTE Band 5	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 2	20525	836.5	1	1	22.92	24.00	1.282	-0.01	0.223	0.286
	LTE Band 5	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 2	20525	836.5	1	1	22.07	23.00	1.239	0.07	0.184	0.228
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 2	20525	836.5	1	1	22.92	24.00	1.282	0.08	0.106	0.136
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 2	20525	836.5	1	1	22.07	23.00	1.239	-0.11	0.084	0.104
27	FR1 n5	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 2	167300	836.5	1	1	23.03	24.00	1.250	0.09	0.220	0.275
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 0	DSI 2	167300	836.5	1	1	22.91	24.00	1.285	0.08	0.259	0.333
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 2	167300	836.5	1	1	23.03	24.00	1.250	0.01	0.344	0.430
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 2	167300	836.5	1	1	22.91	24.00	1.285	0.07	0.403	0.518
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 2	167300	836.5	1	2	22.91	24.00	1.285	0.05	0.283	0.364
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 2	167300	836.5	1	1	23.03	24.00	1.250	0.06	0.146	0.183
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 0	DSI 2	167300	836.5	1	1	22.91	24.00	1.285	-0.14	0.180	0.231
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 2	167300	836.5	1	1	23.03	24.00	1.250	0.08	0.133	0.166
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Side	10mm	Ant 0	DSI 2	167300	836.5	1	1	22.91	24.00	1.285	-0.13	0.152	0.195
	FR1 n5	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	167300	836.5	1	1	23.03	24.00	1.250	0.02	0.070	0.088
28	FR1 n5	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	167300	836.5	1	1	22.91	24.00	1.285	-0.07	0.083	0.107
	1750MHz																			
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 2	1413	1732.6	1	1	21.92	22.80	1.225	0.01	0.630	0.772
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 2	1413	1732.6	1	1	21.92	22.80	1.225	0.05	0.494	0.605
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	DSI 2	1413	1732.6	1	1	21.92	22.80	1.225	0.08	0.086	0.105
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI 2	1413	1732.6	1	1	21.92	22.80	1.225	-0.09	0.480	0.588
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 2	1413	1732.6	1	1	21.92	22.80	1.225	-0.01	0.764	0.936
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 2	1413	1732.6	1	2	21.92	22.80	1.225	0.11	0.696	0.852
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 2	1312	1712.4	1	1	21.89	22.80	1.233	0.02	0.731	0.901
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 2	1513	1752.6	1	1	21.89	22.80	1.233	-0.06	0.734	0.905
29	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.36	22.60	1.330	0.06	0.568	0.756
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.22	22.60	1.374	0.04	0.466	0.640
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.36	22.60	1.330	-0.08	0.469	0.624
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.22	22.60	1.374	0.04	0.382	0.525
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.36	22.60	1.330	-0.08	0.069	0.092
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.22	22.60	1.374	-0.06	0.054	0.074
	LTE Band 4	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.36	22.60	1.330	-0.01	0.469	0.624
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.22	22.60	1.374	0.08	0.381	0.524
	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.36	22.60	1.330	0.17	0.698	0.929
	LTE Band 4	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.22	22.60	1.374	0.15	0.561	0.771
29	LTE Band 4	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 0	DSI 2	20175	1732.5	1	1	21.19	22.60	1.384	0.07	0.558	0.772



FCC SAR Test Report

Report No. : FA212805

	FR1 n66	30M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 2	349000	1745	1	1	21.63	22.90	1.340	0.09	0.634	0.849
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	10mm	Ant 0	DSI 2	349000	1745	1	1	21.39	22.90	1.416	0.07	0.585	0.828
	FR1 n66	30M	QPSK	160	0	DFT-15	Front	10mm	Ant 0	DSI 2	349000	1745	1	1	20.97	22.90	1.560	0.08	0.494	0.770
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 2	349000	1745	1	1	21.63	22.90	1.340	0.05	0.678	0.908
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	10mm	Ant 0	DSI 2	349000	1745	1	1	21.39	22.90	1.416	-0.01	0.644	0.912
	FR1 n66	30M	QPSK	160	0	DFT-15	Back	10mm	Ant 0	DSI 2	349000	1745	1	1	20.97	22.90	1.560	0.07	0.539	0.841
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 2	349000	1745	1	1	21.63	22.90	1.340	-0.13	0.086	0.115
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Side	10mm	Ant 0	DSI 2	349000	1745	1	1	21.39	22.90	1.416	-0.02	0.111	0.157
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 2	349000	1745	1	1	21.63	22.90	1.340	0.07	0.430	0.576
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Side	10mm	Ant 0	DSI 2	349000	1745	1	1	21.39	22.90	1.416	-0.02	0.436	0.617
30	FR1 n66	30M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	349000	1745	1	1	21.63	22.90	1.340	-0.03	0.699	0.936
	FR1 n66	30M	QPSK	80	40	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	349000	1745	1	1	21.39	22.90	1.416	0.04	0.651	0.922
	FR1 n66	30M	QPSK	160	0	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	349000	1745	1	1	20.97	22.90	1.560	0.08	0.529	0.825

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	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)
1900MHz																						
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 0	DSI 2	661	1880	1	1	21.80	22.80	1.259	-	-	0.01	0.275	0.346
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 0	DSI 2	661	1880	1	1	21.80	22.80	1.259	-	-	0.02	0.431	0.542
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 0	DSI 2	661	1880	1	1	21.80	22.80	1.259	-	-	0.04	0.045	0.057
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Side	10mm	Ant 0	DSI 2	661	1880	1	1	21.80	22.80	1.259	-	-	0.01	0.096	0.121
31	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 0	DSI 2	661	1880	1	1	21.80	22.80	1.259	-	-	-0.06	0.737	0.928
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 0	DSI 2	512	1850.2	1	1	21.76	22.80	1.271	-	-	0.08	0.622	0.790
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 0	DSI 2	810	1909.8	1	1	21.67	22.80	1.297	-	-	0.09	0.688	0.892
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 2	9400	1880	1	1	19.17	19.90	1.183	-	-	0.1	0.286	0.338
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 2	9400	1880	1	1	19.17	19.90	1.183	-	-	-0.1	0.483	0.571
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	DSI 2	9400	1880	1	1	19.17	19.90	1.183	-	-	-0.01	0.046	0.054
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI 2	9400	1880	1	1	19.17	19.90	1.183	-	-	-0.09	0.112	0.133
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 2	9400	1880	1	1	19.17	19.90	1.183	-	-	0.11	0.757	0.896
32	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 2	9262	1852.4	1	1	19.10	19.90	1.202	-	-	-0.09	0.771	0.927
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 2	9538	1907.6	1	1	19.06	19.90	1.213	-	-	0.02	0.707	0.858
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 2	18900	1880	1	1	18.08	19.30	1.324	-	-	-0.14	0.263	0.348
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 2	18900	1880	1	1	18.04	19.30	1.337	-	-	-0.1	0.215	0.287
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 2	18900	1880	1	1	18.08	19.30	1.324	-	-	0.1	0.451	0.597
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 2	18900	1880	1	1	18.04	19.30	1.337	-	-	-0.1	0.369	0.493
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 2	18900	1880	1	1	18.08	19.30	1.324	-	-	-0.09	0.040	0.053
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 2	18900	1880	1	1	18.04	19.30	1.337	-	-	0.11	0.033	0.044
	LTE Band 2	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 2	18900	1880	1	1	18.08	19.30	1.324	-	-	0.17	0.092	0.122
	LTE Band 2	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 2	18900	1880	1	1	18.04	19.30	1.337	-	-	0.07	0.074	0.099
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 2	18900	1880	1	1	18.08	19.30	1.324	-	-	0.05	0.688	0.911
33	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 2	18700	1860	1	1	18.07	19.30	1.327	-	-	-0.04	0.700	0.929
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 2	19100	1900	1	1	18.03	19.30	1.340	-	-	0.02	0.657	0.880
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 2	18900	1880	1	1	18.04	19.30	1.337	-	-	0.14	0.564	0.754
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 0	DSI 2	18900	1880	1	1	17.98	19.30	1.355	-	-	-0.03	0.549	0.744
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 2	376000	1880	1	1	17.36	18.60	1.330	-	-	0.07	0.282	0.375
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 0	DSI 2	376000	1880	1	1	17.32	18.60	1.343	-	-	0.05	0.265	0.356
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 2	376000	1880	1	1	17.36	18.60	1.330	-	-	0.02	0.693	0.922
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 2	372000	1860	1	1	17.04	18.60	1.432	-	-	-0.01	0.512	0.733
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 2	380000	1900	1	1	17.25	18.60	1.365	-	-	0.09	0.457	0.624
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 2	376000	1880	1	1	17.32	18.60	1.343	-	-	0.07	0.653	0.877
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 2	372000	1860	1	1	16.84	18.60	1.500	-	-	-0.13	0.495	0.742
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 2	380000	1900	1	1	16.97	18.60	1.455	-	-	-0.12	0.421	0.613
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	10mm	Ant 0	DSI 2	376000	1880	1	1	16.92	18.60	1.472	-	-	0.04	0.540	0.795
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 2	376000	1880	1	1	17.36	18.60	1.330	-	-	-0.09	0.046	0.061
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 0	DSI 2	376000	1880	1	1	17.32	18.60	1.343	-	-	0.05	0.043	0.058



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	FR1 n2	20M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 2	376000	1880	1	1	17.36	18.60	1.330	-	-	-0.16	0.094	0.125
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Side	10mm	Ant 0	DSI 2	376000	1880	1	1	17.32	18.60	1.343	-	-	0.06	0.108	0.145
34	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	376000	1880	1	1	17.36	18.60	1.330	-	-	-0.09	0.703	0.935
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	376000	1880	1	2	17.36	18.60	1.330	-	-	0.03	0.546	0.726
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	372000	1860	1	1	17.04	18.60	1.432	-	-	-0.13	0.478	0.685
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	380000	1900	1	1	17.25	18.60	1.365	-	-	-0.05	0.478	0.652
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	376000	1880	1	1	17.32	18.60	1.343	-	-	-0.12	0.660	0.886
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	372000	1860	1	1	16.84	18.60	1.500	-	-	-0.12	0.464	0.696
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	380000	1900	1	1	16.97	18.60	1.455	-	-	0.1	0.450	0.655
	FR1 n2	20M	QPSK	100	0	DFT-15	Bottom Side	10mm	Ant 0	DSI 2	376000	1880	1	1	16.92	18.60	1.472	-	-	-0.17	0.545	0.802
2600MHZ																						
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 2	21100	2535	1	1	19.40	20.40	1.259	-	-	-0.12	0.258	0.325
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 2	21100	2535	1	1	19.21	20.40	1.315	-	-	0.05	0.214	0.281
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 2	21100	2535	1	1	19.40	20.40	1.259	-	-	-0.1	0.494	0.622
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 2	21100	2535	1	1	19.21	20.40	1.315	-	-	-0.12	0.413	0.543
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 2	21100	2535	1	1	19.40	20.40	1.259	-	-	0.12	0.315	0.397
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 2	21100	2535	1	1	19.21	20.40	1.315	-	-	0.01	0.255	0.335
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 2	21100	2535	1	1	19.40	20.40	1.259	-	-	0.16	0.042	0.053
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 2	21100	2535	1	1	19.21	20.40	1.315	-	-	-0.01	0.036	0.047
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI 2	21100	2535	1	1	19.40	20.40	1.259	-	-	0.06	0.670	0.843
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI 2	20850	2510	1	1	19.31	20.40	1.285	-	-	-0.04	0.613	0.788
35	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI 2	21350	2560	1	1	19.28	20.40	1.294	-	-	0.05	0.719	0.931
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	DSI 2	21100	2535	1	1	19.21	20.40	1.315	-	-	-0.09	0.552	0.726
	LTE Band 7	20M	QPSK	100	0	-	Top Side	10mm	Ant 2	DSI 2	21100	2535	1	1	19.15	20.40	1.334	-	-	0.05	0.547	0.729
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 2	507000	2535	1	1	20.18	21.40	1.324	-	-	-0.12	0.295	0.391
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	10mm	Ant 2	DSI 2	507000	2535	1	1	20.11	21.40	1.346	-	-	0.1	0.296	0.398
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 2	507000	2535	1	1	20.18	21.40	1.324	-	-	0.08	0.567	0.751
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	10mm	Ant 2	DSI 2	507000	2535	1	1	20.11	21.40	1.346	-	-	0.06	0.564	0.759
	FR1 n7	50M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 2	507000	2535	1	1	20.18	21.40	1.324	-	-	0.18	0.287	0.380
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Side	10mm	Ant 2	DSI 2	507000	2535	1	1	20.11	21.40	1.346	-	-	-0.19	0.312	0.420
	FR1 n7	50M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 2	DSI 2	507000	2535	1	1	20.18	21.40	1.324	-	-	0.05	0.039	0.052
	FR1 n7	50M	QPSK	135	68	DFT-15	Right Side	10mm	Ant 2	DSI 2	507000	2535	1	1	20.11	21.40	1.346	-	-	-0.1	0.041	0.055
	FR1 n7	50M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 2	DSI 2	507000	2535	1	1	20.18	21.40	1.324	-	-	0.11	0.623	0.825
36	FR1 n7	50M	QPSK	135	68	DFT-15	Top Side	10mm	Ant 2	DSI 2	507000	2535	1	1	20.11	21.40	1.346	-	-	-0.07	0.701	0.943
	FR1 n7	50M	QPSK	270	0	DFT-15	Top Side	10mm	Ant 2	DSI 2	507000	2535	1	1	20.10	20.40	1.072	-	-	-0.1	0.538	0.576
	LTE Band 41	20M	QPSK	1	0		Front	10mm	Ant 2	DSI 2	40620	2593	1	1	21.86	22.70	1.213	62.9	1.006	0.07	0.242	0.295
	LTE Band 41	20M	QPSK	50	0		Front	10mm	Ant 2	DSI 2	40620	2593	1	1	21.41	22.70	1.346	62.9	1.006	0.11	0.201	0.272
	LTE Band 41	20M	QPSK	1	0		Back	10mm	Ant 2	DSI 2	40620	2593	1	1	21.86	22.70	1.213	62.9	1.006	0.06	0.452	0.552
	LTE Band 41	20M	QPSK	50	0		Back	10mm	Ant 2	DSI 2	40620	2593	1	1	21.41	22.70	1.346	62.9	1.006	-0.05	0.375	0.508
	LTE Band 41	20M	QPSK	1	0		Left Side	10mm	Ant 2	DSI 2	40620	2593	1	1	21.86	22.70	1.213	62.9	1.006	-0.02	0.266	0.325
	LTE Band 41	20M	QPSK	50	0		Left Side	10mm	Ant 2	DSI 2	40620	2593	1	1	21.41	22.70	1.346	62.9	1.006	-0.17	0.220	0.298
	LTE Band 41	20M	QPSK	1	0		Right Side	10mm	Ant 2	DSI 2	40620	2593	1	1	21.86	22.70	1.213	62.9	1.006	0.12	0.041	0.050
	LTE Band 41	20M	QPSK	50	0		Right Side	10mm	Ant 2	DSI 2	40620	2593	1	1	21.41	22.70	1.346	62.9	1.006	-0.14	0.035	0.047
	LTE Band 41	20M	QPSK	1	0		Top Side	10mm	Ant 2	DSI 2	40620	2593	1	1	21.86	22.70	1.213	62.9	1.006	0.02	0.690	0.842
	LTE Band 41	20M	QPSK	1	0		Top Side	10mm	Ant 2	DSI 2	39750	2506	1	1	21.73	22.70	1.250	62.9	1.006	0.19	0.576	0.724
	LTE Band 41	20M	QPSK	1	0		Top Side	10mm	Ant 2	DSI 2	40185	2549.5	1	1	21.81	22.70	1.227	62.9	1.006	0.02	0.664	0.820
	LTE Band 41	20M	QPSK	1	0		Top Side	10mm	Ant 2	DSI 2	41055	2636.5	1	1	21.83	22.70	1.222	62.9	1.006	-0.08	0.736	0.905
37	LTE Band 41	20M	QPSK	1	0		Top Side	10mm	Ant 2	DSI 2	41490	2680	1	1	21.75	22.70	1.245	62.9	1.006	-0.01	0.750	0.939
	LTE Band 41	20M	QPSK	1	0		Top Side	10mm	Ant 2	DSI 2	41490	2680	2	1	21.75	22.70	1.245	62.9	1.006	0.03	0.725	0.908
	LTE Band 41	20M	QPSK	50	0		Top Side	10mm	Ant 2	DSI 2	40620	2593	1	1	21.41	22.70	1.346	62.9	1.006	0.08	0.582	0.788
	LTE Band 41	20M	QPSK	100	0		Top Side	10mm	Ant 2	DSI 2	40620	2593	1	1	21.32	22.70	1.374	62.9	1.006	-0.04	0.581	0.803
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.55	20.70	1.303	-	-	-0.12	0.354	0.461
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.48	20.70	1.324	-	-	0.02	0.303	0.401
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.55	20.70	1.303	-	-	0.14	0.617	0.804
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.48	20.70	1.324	-	-	-0.18	0.547	0.724



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	FR1 n41-HPUE	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.32	20.70	1.374	-	-	-0.11	0.482	0.662
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.55	20.70	1.303	-	-	-0.07	0.354	0.461
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.48	20.70	1.324	-	-	-0.12	0.317	0.420
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.55	20.70	1.303	-	-	0.1	0.051	0.066
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.48	20.70	1.324	-	-	-0.13	0.058	0.077
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.55	20.70	1.303	-	-	-0.1	0.672	0.876
38	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.48	20.70	1.324	-	-	-0.08	0.698	0.924
	FR1 n41	100M	QPSK	270	0	DFT-30	Top Side	10mm	Ant 2	DSI 2	518598	2592.99	1	1	19.32	20.70	1.374	-	-	0.02	0.495	0.680
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.19	21.00	1.205	-	-	-0.09	0.010	0.012
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.15	21.00	1.216	-	-	0.02	0.010	0.012
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.19	21.00	1.205	-	-	-0.01	0.116	0.140
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.15	21.00	1.216	-	-	0.17	0.119	0.145
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.19	21.00	1.205	-	-	0.12	0.162	0.195
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.15	21.00	1.216	-	-	-0.02	0.200	0.243
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 1	DSI 2	518598	2592.99	1	2	20.15	21.00	1.216	-	-	0.04	0.152	0.185
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.19	21.00	1.205	-	-	0.11	0.010	0.012
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.15	21.00	1.216	-	-	0.12	0.010	0.012
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.19	21.00	1.205	-	-	-0.02	0.010	0.012
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.15	21.00	1.216	-	-	0.11	0.010	0.012
	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.19	21.00	1.205	-	-	0.15	0.010	0.012
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant 1	DSI 2	518598	2592.99	1	1	20.15	21.00	1.216	-	-	0.06	0.010	0.012
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.21	21.00	1.199	-	-	-0.03	0.339	0.407
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.18	21.00	1.208	-	-	0.05	0.417	0.504
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.21	21.00	1.199	-	-	-0.08	0.253	0.303
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.18	21.00	1.208	-	-	-0.03	0.255	0.308
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.21	21.00	1.199	-	-	0.14	0.041	0.049
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.18	21.00	1.208	-	-	0.01	0.051	0.062
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.21	21.00	1.199	-	-	0.05	0.433	0.519
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.18	21.00	1.208	-	-	-0.12	0.557	0.673
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 2	518598	2592.99	1	2	20.18	21.00	1.208	-	-	0.11	0.453	0.547
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.21	21.00	1.199	-	-	0.06	0.128	0.154
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.18	21.00	1.208	-	-	-0.08	0.127	0.153
	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.21	21.00	1.199	-	-	0.01	0.029	0.035
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant 4	DSI 2	518598	2592.99	1	1	20.18	21.00	1.208	-	-	0.08	0.033	0.040
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.57	21.00	1.104	-	-	0.03	0.043	0.047
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.14	21.00	1.219	-	-	-0.08	0.030	0.037
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.57	21.00	1.104	-	-	0.07	0.252	0.278
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.14	21.00	1.219	-	-	0.05	0.177	0.216
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.57	21.00	1.104	-	-	-0.03	0.269	0.297
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.14	21.00	1.219	-	-	-0.09	0.216	0.263
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.57	21.00	1.104	-	-	0.04	0.006	0.007
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.14	21.00	1.219	-	-	-0.05	0.000	0.000
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.57	21.00	1.104	-	-	0.06	0.015	0.017
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.14	21.00	1.219	-	-	-0.08	0.008	0.010
	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.57	21.00	1.104	-	-	0.01	0.014	0.015
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant 6	DSI 2	518598	2592.99	1	1	20.14	21.00	1.219	-	-	0.11	0.010	0.012



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	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)
3500MHz~3900MHz																						
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 2	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	0.05	0.038	0.043
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 2	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	0.08	0.038	0.042
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 2	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	-0.01	0.126	0.142
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 2	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	0.08	0.127	0.142
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 2	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	-0.04	0.208	0.235
39	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 2	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	-0.08	0.484	0.540
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI 2	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	0.02	0.042	0.047
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Right Side	10mm	Ant 3	DSI 2	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	-0.06	0.000	0.000
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 2	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	-0.01	0.051	0.058
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 2	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	0.05	0.059	0.066
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 3	DSI 2	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	-0.02	0.000	0.000
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 3	DSI 2	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	-0.14	0.027	0.030
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant3	DSI 2	656000	3840	1	1	23.47	24.00	1.130	-	-	0.09	0.112	0.127
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant3	DSI 2	656000	3840	1	1	23.46	24.00	1.132	-	-	0.06	0.091	0.103
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant3	DSI 2	656000	3840	1	1	23.47	24.00	1.130	-	-	0.04	0.456	0.515
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant3	DSI 2	656000	3840	1	1	23.46	24.00	1.132	-	-	-0.05	0.437	0.495
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant3	DSI 2	656000	3840	1	1	23.47	24.00	1.130	-	-	-0.04	0.530	0.599
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant3	DSI 2	656000	3840	1	2	23.47	24.00	1.130	-	-	0.02	0.459	0.519
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant3	DSI 2	656000	3840	1	1	23.46	24.00	1.132	-	-	-0.07	0.475	0.538
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant3	DSI 2	656000	3840	1	1	23.47	24.00	1.130	-	-	0.08	0.047	0.053
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant3	DSI 2	656000	3840	1	1	23.46	24.00	1.132	-	-	0.14	0.047	0.053
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant3	DSI 2	656000	3840	1	1	23.47	24.00	1.130	-	-	0.06	0.147	0.166
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant3	DSI 2	656000	3840	1	1	23.46	24.00	1.132	-	-	0.05	0.144	0.163
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant3	DSI 2	656000	3840	1	1	23.47	24.00	1.130	-	-	-0.09	0.058	0.066
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant3	DSI 2	656000	3840	1	1	23.46	24.00	1.132	-	-	0.07	0.058	0.066
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.40	24.00	1.148	-	-	0.13	0.111	0.127
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.25	24.00	1.189	-	-	0.09	0.104	0.124
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.40	24.00	1.148	-	-	0.02	0.697	0.800
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.25	24.00	1.189	-	-	-0.16	0.691	0.821
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Back	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.43	23.00	1.140	-	-	-0.15	0.603	0.688
40	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.40	24.00	1.148	-	-	-0.08	0.765	0.878
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.25	24.00	1.189	-	-	-0.05	0.690	0.820
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Left Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.43	23.00	1.140	-	-	0.11	0.577	0.658
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.40	24.00	1.148	-	-	-0.07	0.071	0.082
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.25	24.00	1.189	-	-	0.16	0.068	0.081
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.40	24.00	1.148	-	-	0.16	0.171	0.196
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.25	24.00	1.189	-	-	0.11	0.164	0.195
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.40	24.00	1.148	-	-	-0.06	0.051	0.059
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	23.25	24.00	1.189	-	-	-0.03	0.049	0.058
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant1	DSI 2	656000	3840	1	1	19.28	20.00	1.180	-	-	-0.05	0.232	0.274
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant1	DSI 2	656000	3840	1	1	19.04	20.00	1.247	-	-	-0.02	0.244	0.304
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant1	DSI 2	656000	3840	1	1	19.28	20.00	1.180	-	-	-0.1	0.311	0.367
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant1	DSI 2	656000	3840	1	1	19.04	20.00	1.247	-	-	-0.02	0.264	0.329
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant1	DSI 2	656000	3840	1	1	19.28	20.00	1.180	-	-	0.01	0.414	0.489
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant1	DSI 2	656000	3840	1	2	19.28	20.00	1.180	-	-	-0.18	0.363	0.428
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant1	DSI 2	656000	3840	1	1	19.04	20.00	1.247	-	-	0.08	0.366	0.457
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant1	DSI 2	656000	3840	1	1	19.28	20.00	1.180	-	-	-0.16	0.054	0.064
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant1	DSI 2	656000	3840	1	1	19.04	20.00	1.247	-	-	-0.16	0.061	0.076
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant1	DSI 2	656000	3840	1	1	19.28	20.00	1.180	-	-	-0.08	0.032	0.038
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant1	DSI 2	656000	3840	1	1	19.04	20.00	1.247	-	-	0.08	0.048	0.060
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant1	DSI 2	656000	3840	1	1	19.28	20.00	1.180	-	-	-0.07	0.098	0.116



FCC SAR Test Report

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FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant1	DSI 2	656000	3840	1	1	19.04	20.00	1.247	-	-	-0.01	0.090	0.112
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.71	20.00	1.346	-	-	0.04	0.045	0.061
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.52	20.00	1.406	-	-	0.09	0.018	0.025
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.71	20.00	1.346	-	-	-0.09	0.066	0.089
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.52	20.00	1.406	-	-	-0.14	0.050	0.070
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.71	20.00	1.346	-	-	0.11	0.061	0.082
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.52	20.00	1.406	-	-	0.01	0.050	0.070
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.71	20.00	1.346	-	-	0.01	0.026	0.035
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.52	20.00	1.406	-	-	0.03	0.033	0.046
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.71	20.00	1.346	-	-	-0.1	0.018	0.024
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.52	20.00	1.406	-	-	0.18	0.033	0.046
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.71	20.00	1.346	-	-	0.09	0.039	0.052
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	18.52	20.00	1.406	-	-	0.09	0.028	0.039
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	10mm	Ant4	DSI 2	656000	3840	1	1	19.75	20.00	1.059	-	-	0.11	0.171	0.181
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	10mm	Ant4	DSI 2	656000	3840	1	1	19.65	20.00	1.084	-	-	0.12	0.137	0.148
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant4	DSI 2	656000	3840	1	1	19.75	20.00	1.059	-	-	0.16	0.243	0.257
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant4	DSI 2	656000	3840	1	1	19.65	20.00	1.084	-	-	-0.18	0.173	0.188
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant4	DSI 2	656000	3840	1	1	19.75	20.00	1.059	-	-	-0.18	0.038	0.040
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant4	DSI 2	656000	3840	1	1	19.65	20.00	1.084	-	-	0.03	0.046	0.050
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant4	DSI 2	656000	3840	1	1	19.75	20.00	1.059	-	-	0.02	0.336	0.356
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant4	DSI 2	656000	3840	1	1	19.65	20.00	1.084	-	-	-0.17	0.279	0.302
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant4	DSI 2	656000	3840	1	1	19.75	20.00	1.059	-	-	-0.03	0.161	0.171
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant4	DSI 2	656000	3840	1	1	19.65	20.00	1.084	-	-	0.06	0.148	0.160
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant4	DSI 2	656000	3840	1	1	19.75	20.00	1.059	-	-	-0.16	0.042	0.044
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant4	DSI 2	656000	3840	1	1	19.65	20.00	1.084	-	-	0.13	0.025	0.027
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.30	20.00	1.175	-	-	-0.12	0.211	0.248
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.15	20.00	1.216	-	-	0.15	0.226	0.275
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.30	20.00	1.175	-	-	-0.04	0.155	0.182
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.15	20.00	1.216	-	-	-0.1	0.199	0.242
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.30	20.00	1.175	-	-	0.14	0.040	0.047
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.15	20.00	1.216	-	-	-0.08	0.000	0.000
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.30	20.00	1.175	-	-	-0.1	0.474	0.557
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.15	20.00	1.216	-	-	-0.01	0.565	0.687
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.30	20.00	1.175	-	-	0.08	0.127	0.149
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.15	20.00	1.216	-	-	-0.12	0.150	0.182
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.30	20.00	1.175	-	-	0.11	0.031	0.036
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	19.15	20.00	1.216	-	-	0.16	0.036	0.044
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	10mm	Ant5	DSI 2	656000	3840	1	1	19.31	20.00	1.172	-	-	0.04	0.085	0.100
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	10mm	Ant5	DSI 2	656000	3840	1	1	19.12	20.00	1.225	-	-	0.12	0.091	0.111
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant5	DSI 2	656000	3840	1	1	19.31	20.00	1.172	-	-	-0.12	0.209	0.245
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant5	DSI 2	656000	3840	1	1	19.12	20.00	1.225	-	-	0.18	0.209	0.256
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant5	DSI 2	656000	3840	1	1	19.31	20.00	1.172	-	-	-0.13	0.039	0.046
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant5	DSI 2	656000	3840	1	1	19.12	20.00	1.225	-	-	0.13	0.037	0.045
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant5	DSI 2	656000	3840	1	1	19.31	20.00	1.172	-	-	0.09	0.256	0.300
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant5	DSI 2	656000	3840	1	1	19.12	20.00	1.225	-	-	-0.09	0.237	0.290
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant5	DSI 2	656000	3840	1	1	19.31	20.00	1.172	-	-	-0.06	0.068	0.080
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant5	DSI 2	656000	3840	1	1	19.12	20.00	1.225	-	-	-0.12	0.069	0.084
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant5	DSI 2	656000	3840	1	1	19.31	20.00	1.172	-	-	-0.01	0.030	0.035
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant5	DSI 2	656000	3840	1	1	19.12	20.00	1.225	-	-	0.16	0.032	0.039
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.41	20.00	1.146	-	-	0.01	0.095	0.109
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.39	20.00	1.151	-	-	0.13	0.089	0.102
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.41	20.00	1.146	-	-	0.17	0.239	0.274
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.39	20.00	1.151	-	-	0.17	0.222	0.255
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.41	20.00	1.146	-	-	0.07	0.028	0.032
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.39	20.00	1.151	-	-	0.15	0.041	0.047
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.41	20.00	1.146	-	-	-0.03	0.279	0.320



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	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.39	20.00	1.151	-	-	0.07	0.261	0.300
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.41	20.00	1.146	-	-	-0.1	0.071	0.081
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.39	20.00	1.151	-	-	0.15	0.055	0.063
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.41	20.00	1.146	-	-	0.01	0.026	0.030
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	19.39	20.00	1.151	-	-	-0.03	0.035	0.040
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Front	10mm	Ant3	DSI 2	650000	3750	1	1	22.38	23.70	1.355	-	-	-0.19	0.134	0.182
	FR1 n78_HPUE_Part27O	100M	QPSK	135	69	DFT-30	Front	10mm	Ant3	DSI 2	650000	3750	1	1	22.33	23.70	1.371	-	-	0.02	0.117	0.160
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant3	DSI 2	650000	3750	1	1	22.38	23.70	1.355	-	-	0.02	0.612	0.829
	FR1 n78_HPUE_Part27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant3	DSI 2	650000	3750	1	1	22.33	23.70	1.371	-	-	0.06	0.520	0.713
	FR1 n78_HPUE_Part27O	100M	QPSK	270	0	DFT-30	Back	10mm	Ant3	DSI 2	650000	3750	1	1	22.22	23.00	1.197	-	-	-0.13	0.505	0.604
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant3	DSI 2	650000	3750	1	1	22.38	23.70	1.355	-	-	-0.08	0.662	0.897
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant3	DSI 2	650000	3750	1	2	22.38	23.70	1.355	-	-	-0.11	0.623	0.844
	FR1 n78_HPUE_Part27O	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant3	DSI 2	650000	3750	1	1	22.33	23.70	1.371	-	-	0.12	0.601	0.824
	FR1 n78_HPUE_Part27O	100M	QPSK	270	0	DFT-30	Left Side	10mm	Ant3	DSI 2	650000	3750	1	1	22.22	23.00	1.197	-	-	-0.08	0.525	0.628
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant3	DSI 2	650000	3750	1	1	22.38	23.70	1.355	-	-	0.03	0.075	0.102
	FR1 n78_HPUE_Part27O	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant3	DSI 2	650000	3750	1	1	22.33	23.70	1.371	-	-	0.02	0.076	0.104
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant3	DSI 2	650000	3750	1	1	22.38	23.70	1.355	-	-	0.14	0.208	0.282
	FR1 n78_HPUE_Part27O	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant3	DSI 2	650000	3750	1	1	22.33	23.70	1.371	-	-	0.01	0.184	0.252
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant3	DSI 2	650000	3750	1	1	22.38	23.70	1.355	-	-	0.02	0.048	0.065
	FR1 n78_HPUE_Part27O	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant3	DSI 2	650000	3750	1	1	22.33	23.70	1.371	-	-	-0.07	0.056	0.077
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.66	23.70	1.271	-	-	0.14	0.102	0.130
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.64	23.70	1.276	-	-	0.04	0.090	0.115
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.66	23.70	1.271	-	-	0.01	0.655	0.832
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.64	23.70	1.276	-	-	0.13	0.471	0.601
	FR1 n78_HPUE_Part27Q	100M	QPSK	270	0	DFT-30	Back	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.61	23.00	1.094	-	-	0.09	0.452	0.494
41	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.66	23.70	1.271	-	-	-0.09	0.730	0.928
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.64	23.70	1.276	-	-	0.11	0.583	0.744
	FR1 n78_HPUE_Part27Q	100M	QPSK	270	0	DFT-30	Left Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.61	23.00	1.094	-	-	-0.1	0.459	0.502
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.66	23.70	1.271	-	-	-0.05	0.071	0.090
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.64	23.70	1.276	-	-	0.12	0.055	0.070
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.66	23.70	1.271	-	-	-0.06	0.151	0.192
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.64	23.70	1.276	-	-	0.17	0.144	0.184
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.66	23.70	1.271	-	-	0.16	0.052	0.000
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant3	DSI 2	633334	3500.01	1	1	22.64	23.70	1.276	-	-	0.1	0.044	0.056
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Front	10mm	Ant1	DSI 2	650000	3750	1	1	19.43	21.00	1.435	-	-	0.1	0.382	0.548
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Front	10mm	Ant1	DSI 2	650000	3750	1	1	19.12	21.00	1.542	-	-	0.04	0.301	0.464
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant1	DSI 2	650000	3750	1	1	19.43	21.00	1.435	-	-	0.01	0.572	0.821
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant1	DSI 2	650000	3750	1	2	19.43	21.00	1.435	-	-	0.14	0.537	0.771
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant1	DSI 2	650000	3750	1	1	19.12	21.00	1.542	-	-	0.09	0.438	0.675
	FR1 n78_Part27O	100M	QPSK	100	0	DFT-30	Back	10mm	Ant1	DSI 2	650000	3750	1	1	19.02	21.00	1.578	-	-	0.01	0.512	0.808
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant1	DSI 2	650000	3750	1	1	19.43	21.00	1.435	-	-	0.02	0.536	0.769
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant1	DSI 2	650000	3750	1	1	19.12	21.00	1.542	-	-	0.1	0.448	0.691
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant1	DSI 2	650000	3750	1	1	19.43	21.00	1.435	-	-	-0.13	0.069	0.099
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant1	DSI 2	650000	3750	1	1	19.12	21.00	1.542	-	-	-0.12	0.065	0.100
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant1	DSI 2	650000	3750	1	1	19.43	21.00	1.435	-	-	-0.12	0.039	0.056
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant1	DSI 2	650000	3750	1	1	19.12	21.00	1.542	-	-	0.17	0.053	0.082
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant1	DSI 2	650000	3750	1	1	19.43	21.00	1.435	-	-	-0.15	0.216	0.310
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant1	DSI 2	650000	3750	1	1	19.12	21.00	1.542	-	-	0.1	0.219	0.338
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.55	21.00	1.396	-	-	0.06	0.191	0.267
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.52	21.00	1.406	-	-	0.06	0.179	0.252
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.55	21.00	1.396	-	-	0.12	0.328	0.458
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.52	21.00	1.406	-	-	0.08	0.334	0.470
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.55	21.00	1.396	-	-	0.09	0.476	0.665
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.52	21.00	1.406	-	-	-0.03	0.512	0.720
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant1	DSI 2	633334	3500.01	1	2	19.52	21.00	1.406	-	-	-0.07	0.394	0.554



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FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.55	21.00	1.396	-	-	0.1	0.045	0.063
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.52	21.00	1.406	-	-	0.09	0.041	0.058
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.55	21.00	1.396	-	-	-0.1	0.033	0.046
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.52	21.00	1.406	-	-	-0.08	0.000	0.000
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.55	21.00	1.396	-	-	-0.14	0.105	0.147
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant1	DSI 2	633334	3500.01	1	1	19.52	21.00	1.406	-	-	-0.11	0.093	0.131
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Front	10mm	Ant4	DSI 2	650000	3750	1	1	20.58	21.00	1.102	-	-	-0.03	0.332	0.366
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Front	10mm	Ant4	DSI 2	650000	3750	1	1	20.37	21.00	1.156	-	-	-0.14	0.277	0.320
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant4	DSI 2	650000	3750	1	1	20.58	21.00	1.102	-	-	0.02	0.452	0.498
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant4	DSI 2	650000	3750	1	1	20.37	21.00	1.156	-	-	-0.12	0.331	0.383
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant4	DSI 2	650000	3750	1	1	20.58	21.00	1.102	-	-	-0.05	0.053	0.058
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant4	DSI 2	650000	3750	1	1	20.37	21.00	1.156	-	-	-0.14	0.056	0.065
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant4	DSI 2	650000	3750	1	1	20.58	21.00	1.102	-	-	0.06	0.710	0.782
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant4	DSI 2	650000	3750	1	1	20.37	21.00	1.156	-	-	0.01	0.545	0.630
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant4	DSI 2	650000	3750	1	1	20.58	21.00	1.102	-	-	-0.11	0.296	0.326
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant4	DSI 2	650000	3750	1	1	20.37	21.00	1.156	-	-	-0.12	0.249	0.288
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant4	DSI 2	650000	3750	1	1	20.58	21.00	1.102	-	-	0.11	0.037	0.041
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant4	DSI 2	650000	3750	1	1	20.37	21.00	1.156	-	-	-0.06	0.050	0.058
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.43	21.00	1.140	-	-	0.07	0.300	0.342
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.42	21.00	1.143	-	-	0.09	0.285	0.326
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.43	21.00	1.140	-	-	-0.13	0.241	0.275
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.42	21.00	1.143	-	-	0.15	0.249	0.285
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.43	21.00	1.140	-	-	0.13	0.053	0.060
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.42	21.00	1.143	-	-	-0.1	0.053	0.061
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.43	21.00	1.140	-	-	0.01	0.718	0.819
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.42	21.00	1.143	-	-	-0.11	0.673	0.769
FR1 n78_Part27Q	100M	QPSK	270	0	DFT-30	Right Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.29	21.00	1.178	-	-	-0.08	0.655	0.771
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.43	21.00	1.140	-	-	-0.14	0.188	0.214
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.42	21.00	1.143	-	-	0.15	0.201	0.230
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.43	21.00	1.140	-	-	0.15	0.037	0.042
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant4	DSI 2	633334	3500.01	1	1	20.42	21.00	1.143	-	-	-0.09	0.041	0.047
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Front	10mm	Ant5	DSI 2	650000	3750	1	1	20.25	21.00	1.189	-	-	0.08	0.104	0.124
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Front	10mm	Ant5	DSI 2	650000	3750	1	1	20.22	21.00	1.197	-	-	-0.07	0.116	0.139
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant5	DSI 2	650000	3750	1	1	20.25	21.00	1.189	-	-	0.18	0.243	0.289
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant5	DSI 2	650000	3750	1	1	20.22	21.00	1.197	-	-	-0.05	0.190	0.227
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant5	DSI 2	650000	3750	1	1	20.25	21.00	1.189	-	-	-0.19	0.032	0.038
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant5	DSI 2	650000	3750	1	1	20.22	21.00	1.197	-	-	0.07	0.036	0.043
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant5	DSI 2	650000	3750	1	1	20.25	21.00	1.189	-	-	-0.16	0.302	0.359
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant5	DSI 2	650000	3750	1	1	20.22	21.00	1.197	-	-	-0.06	0.310	0.371
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant5	DSI 2	650000	3750	1	2	20.22	21.00	1.197	-	-	0.11	0.275	0.329
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant5	DSI 2	650000	3750	1	1	20.25	21.00	1.189	-	-	-0.15	0.067	0.080
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant5	DSI 2	650000	3750	1	1	20.22	21.00	1.197	-	-	0.09	0.072	0.086
FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant5	DSI 2	650000	3750	1	1	20.25	21.00	1.189	-	-	0.14	0.055	0.065
FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant5	DSI 2	650000	3750	1	1	20.22	21.00	1.197	-	-	0.08	0.046	0.055
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.33	21.00	1.167	-	-	0.05	0.158	0.184
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.27	21.00	1.183	-	-	0.01	0.120	0.142
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.33	21.00	1.167	-	-	0.02	0.343	0.400
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.27	21.00	1.183	-	-	-0.08	0.305	0.361
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.33	21.00	1.167	-	-	-0.09	0.065	0.076
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.27	21.00	1.183	-	-	0.01	0.044	0.052
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.33	21.00	1.167	-	-	0.03	0.424	0.495
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant5	DSI 2	633334	3500.01	1	2	20.33	21.00	1.167	-	-	-0.17	0.378	0.441
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.27	21.00	1.183	-	-	0.05	0.397	0.470
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.33	21.00	1.167	-	-	-0.08	0.116	0.135
FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.27	21.00	1.183	-	-	-0.13	0.107	0.127
FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.33	21.00	1.167	-	-	0.02	0.063	0.074



FCC SAR Test Report

Report No. : FA212805

FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant5	DSI 2	633334	3500.01	1	1	20.27	21.00	1.183	-	-	0.08	0.040	0.047
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Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch	Freq. (MHz)	Battery	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)
WIFI&BT																		
	WLAN 2.4GHz	802.11b 1Mbps	Front	10mm	Ant7	Hotspot	11	2462	1	1	17.80	18.00	1.047	99.2	1.008	0.01	0.140	0.148
	WLAN 2.4GHz	802.11b 1Mbps	Back	10mm	Ant7	Hotspot	11	2462	1	1	17.80	18.00	1.047	99.2	1.008	0.03	0.317	0.335
	WLAN 2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant7	Hotspot	11	2462	1	1	17.80	18.00	1.047	99.2	1.008	0.06	0.037	0.039
	WLAN 2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant7	Hotspot	11	2462	1	1	17.80	18.00	1.047	99.2	1.008	0.07	0.127	0.134
42	WLAN 2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant7	Hotspot	11	2462	1	1	17.80	18.00	1.047	99.2	1.008	-0.01	0.596	0.629
	WLAN 2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant7	Hotspot	11	2462	1	2	17.80	18.00	1.047	99.2	1.008	0.05	0.512	0.540
43	Bluetooth	1Mbps	Top Side	10mm	Ant7	Full Power	78	2480	1	1	2.10	3.00	1.230	77.20	1.295	-0.01	0.015	0.024
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10mm	Ant7	Hotspot	46	5230	1	1	16.70	17.00	1.072	96.4	1.037	0.04	0.167	0.186
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant7	Hotspot	46	5230	1	1	16.70	17.00	1.072	96.4	1.037	0.05	0.417	0.463
	WLAN5.2GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant7	Hotspot	46	5230	1	1	16.70	17.00	1.072	96.4	1.037	0.01	0.047	0.052
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant7	Hotspot	46	5230	1	1	16.70	17.00	1.072	96.4	1.037	0.02	0.290	0.322
44	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant7	Hotspot	46	5230	1	1	16.70	17.00	1.072	96.4	1.037	-0.09	0.583	0.648
	WLAN5.8GHz	802.11a 6Mbps	Front	10mm	Ant7	Hotspot	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	-0.03	0.134	0.139
	WLAN5.8GHz	802.11a 6Mbps	Back	10mm	Ant7	Hotspot	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	-0.01	0.498	0.518
	WLAN5.8GHz	802.11a 6Mbps	Left Side	10mm	Ant7	Hotspot	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	0.08	0.056	0.058
	WLAN5.8GHz	802.11a 6Mbps	Right Side	10mm	Ant7	Hotspot	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	0.05	0.272	0.283
45	WLAN5.8GHz	802.11a 6Mbps	Top Side	10mm	Ant7	Hotspot	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	-0.02	0.537	0.559

**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)	Battery	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
835MHz																				
46	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	15mm	Ant 0	DSI 1	189	836.4	1	1	30.46	31.50	1.271	-0.04	0.372	0.473
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	15mm	Ant 0	DSI 1	128	824.2	1	1	30.45	31.50	1.274	0.01	0.242	0.308
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	15mm	Ant 0	DSI 1	251	848.8	1	1	30.41	31.50	1.285	-0.04	0.232	0.298
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	15mm	Ant 0	DSI 1	189	836.4	1	1	30.46	31.50	1.271	-0.04	0.268	0.341
47	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	DSI 1	4182	836.4	1	1	23.14	24.00	1.219	-0.1	0.246	0.300
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 1	4182	836.4	1	1	23.14	24.00	1.219	-0.08	0.231	0.282
48	LTE Band 5	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 1	20525	836.5	1	1	22.92	24.00	1.282	0.01	0.225	0.289
	LTE Band 5	10M	QPSK	25	0	-	Front	15mm	Ant 0	DSI 1	20525	836.5	1	1	22.07	23.00	1.239	0.07	0.181	0.224
	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 1	20525	836.5	1	1	22.92	24.00	1.282	-0.01	0.203	0.260
	LTE Band 5	10M	QPSK	25	0	-	Back	15mm	Ant 0	DSI 1	20525	836.5	1	1	22.07	23.00	1.239	0.01	0.168	0.208
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 1	167300	836.5	1	1	23.03	24.00	1.250	-0.05	0.239	0.299
49	FR1 n5	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 0	DSI 1	167300	836.5	1	1	22.91	24.00	1.285	-0.02	0.265	0.341
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 1	167300	836.5	1	1	23.03	24.00	1.250	-0.03	0.232	0.290
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 0	DSI 1	167300	836.5	1	1	22.91	24.00	1.285	-0.04	0.259	0.333
1750MHz																				
50	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	DSI 1	1413	1732.6	1	1	23.09	24.00	1.233	-0.01	0.432	0.533
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 1	1413	1732.6	1	1	23.09	24.00	1.233	0.13	0.371	0.457
51	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 1	20175	1732.5	1	1	22.63	24.00	1.371	-0.06	0.383	0.525
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 0	DSI 1	20175	1732.5	1	1	21.68	23.00	1.355	-0.05	0.309	0.419
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 1	20175	1732.5	1	1	22.63	24.00	1.371	0.08	0.325	0.446
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI 1	20175	1732.5	1	1	21.68	23.00	1.355	-0.09	0.259	0.351
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 1	349000	1745	1	1	23.22	24.00	1.197	0.01	0.376	0.450
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	15mm	Ant 0	DSI 1	349000	1745	1	1	23.21	24.00	1.199	0.15	0.345	0.414
52	FR1 n66	30M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 1	349000	1745	1	1	23.22	24.00	1.197	0.01	0.392	0.469
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	15mm	Ant 0	DSI 1	349000	1745	1	1	23.21	24.00	1.199	0.07	0.367	0.440
1900MHz																				
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 0	DSI 1	661	1880	1	1	23.67	24.30	1.156	0.08	0.392	0.453
53	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 0	DSI 1	661	1880	1	1	23.67	24.30	1.156	-0.04	0.598	0.691
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	DSI 1	9400	1880	1	1	21.24	21.90	1.164	0.05	0.384	0.447
54	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 1	9400	1880	1	1	21.24	21.90	1.164	-0.03	0.614	0.715
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 1	18900	1880	1	1	20.66	21.70	1.271	0.16	0.436	0.554
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 0	DSI 1	18900	1880	1	1	20.65	21.70	1.274	0.11	0.350	0.446
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 1	18900	1880	1	1	20.66	21.70	1.271	-0.12	0.656	0.833
55	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 1	18700	1860	1	1	20.64	21.70	1.276	0.08	0.665	0.849
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 1	19100	1900	1	1	20.58	21.70	1.294	0.05	0.604	0.782
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI 1	18900	1880	1	1	20.65	21.70	1.274	0.08	0.523	0.666
	LTE Band 2	20M	QPSK	100	0	-	Back	15mm	Ant 0	DSI 1	18900	1880	1	1	20.47	21.70	1.327	0.01	0.526	0.698
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 1	376000	1880	1	1	19.39	20.40	1.262	0.06	0.122	0.154
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 0	DSI 1	376000	1880	1	1	19.34	20.40	1.276	0.16	0.121	0.154
56	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 1	376000	1880	1	1	19.39	20.40	1.262	-0.01	0.255	0.322
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 0	DSI 1	376000	1880	1	1	19.34	20.40	1.276	-0.01	0.241	0.308



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	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)
2600MHz																						
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 1	21100	2535	1	1	22.52	23.30	1.197	-	-	-0.12	0.265	0.317
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 1	21100	2535	1	1	21.70	23.00	1.349	-	-	-0.06	0.221	0.298
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 1	21100	2535	1	1	22.52	23.30	1.197	-	-	-0.16	0.720	0.862
57	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 1	20850	2510	1	1	22.32	23.30	1.253	-	-	-0.01	0.696	0.872
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 1	20850	2510	1	2	22.32	23.30	1.253	-	-	0.01	0.661	0.828
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 1	20850	2510	2	1	22.32	23.30	1.253	-	-	0.08	0.679	0.851
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 1	21350	2560	1	1	22.35	23.30	1.245	-	-	0.01	0.692	0.861
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 1	21100	2535	1	1	21.70	23.00	1.349	-	-	0.01	0.590	0.796
	LTE Band 7	20M	QPSK	100	0	-	Back	15mm	Ant 2	DSI 1	21100	2535	1	1	21.61	23.00	1.377	-	-	-0.02	0.588	0.810
3500MHz-3900MHz																						
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 1	507000	2535	1	1	21.78	22.50	1.180	-	-	0.01	0.271	0.320
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	15mm	Ant 2	DSI 1	507000	2535	1	1	21.77	22.50	1.183	-	-	-0.03	0.285	0.337
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 1	507000	2535	1	1	21.78	22.50	1.180	-	-	-0.18	0.534	0.630
58	FR1 n7	50M	QPSK	135	68	DFT-15	Back	15mm	Ant 2	DSI 1	507000	2535	1	1	21.77	22.50	1.183	-	-	-0.06	0.557	0.659
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 1	40620	2593	1	1	23.57	24.00	1.104	62.9	1.006	-0.18	0.161	0.179
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 1	40620	2593	1	1	22.47	23.00	1.130	62.9	1.006	-0.04	0.132	0.150
59	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 1	40620	2593	1	1	23.57	24.00	1.104	62.9	1.006	-0.07	0.450	0.500
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 1	40620	2593	1	1	22.47	23.00	1.130	62.9	1.006	0.04	0.359	0.408
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 1	518598	2592.99	1	1	21.16	22.50	1.361	-	-	-0.09	0.235	0.320
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 2	DSI 1	518598	2592.99	1	1	21.13	22.50	1.371	-	-	0.02	0.227	0.311
60	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 1	518598	2592.99	1	1	21.16	22.50	1.361	-	-	-0.04	0.470	0.640
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 1	518598	2592.99	1	1	21.13	22.50	1.371	-	-	-0.17	0.442	0.606
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 1	DSI 1	518598	2592.99	1	1	20.19	21.00	1.205	-	-	-0.13	0.001	0.001
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 1	DSI 1	518598	2592.99	1	1	20.15	21.00	1.216	-	-	-0.11	0.001	0.001
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	DSI 1	518598	2592.99	1	1	20.19	21.00	1.205	-	-	-0.06	0.001	0.001
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 1	DSI 1	518598	2592.99	1	1	20.15	21.00	1.216	-	-	-0.06	0.019	0.023
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 1	518598	2592.99	1	1	20.21	21.00	1.199	-	-	-0.09	0.228	0.273
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 1	518598	2592.99	1	1	20.18	21.00	1.208	-	-	-0.01	0.302	0.365
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 1	518598	2592.99	1	1	20.21	21.00	1.199	-	-	0.07	0.127	0.152
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 1	518598	2592.99	1	1	20.18	21.00	1.208	-	-	-0.15	0.161	0.194
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 1	518598	2592.99	1	1	20.57	21.00	1.104	-	-	0.02	0.030	0.033
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 1	518598	2592.99	1	1	20.14	21.00	1.219	-	-	-0.06	0.020	0.024
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 1	518598	2592.99	1	1	20.57	21.00	1.104	-	-	-0.03	0.193	0.213
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 1	518598	2592.99	1	1	20.14	21.00	1.219	-	-	0.01	0.129	0.157
3500MHz-3900MHz																						
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 1	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	-0.07	0.093	0.105
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 1	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	0.11	0.059	0.066
61	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 1	42590	3500	1	1	23.50	24.00	1.122	62.9	1.006	0.02	0.164	0.185
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 1	42590	3500	1	1	22.55	23.00	1.109	62.9	1.006	0.02	0.128	0.143
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 1	656000	3840	1	1	23.47	24.00	1.130	-	-	0.16	0.079	0.089
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 1	656000	3840	1	1	23.46	24.00	1.132	-	-	-0.04	0.075	0.085
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 1	656000	3840	1	1	23.47	24.00	1.130	-	-	0.02	0.421	0.476
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 1	656000	3840	1	1	23.46	24.00	1.132	-	-	-0.09	0.410	0.464
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 1	633334	3500.01	1	1	23.40	24.00	1.148	-	-	0.03	0.092	0.106
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 1	633334	3500.01	1	1	23.25	24.00	1.189	-	-	0.13	0.101	0.120
62	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 1	633334	3500.01	1	1	23.40	24.00	1.148	-	-	0.08	0.457	0.525
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 1	633334	3500.01	1	1	23.25	24.00	1.189	-	-	0.04	0.429	0.510
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 1	DSI 1	656000	3840	1	1	19.28	20.00	1.180	-	-	0.14	0.137	0.162
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 1	DSI 1	656000	3840	1	1	19.04	20.00	1.247	-	-	0.13	0.152	0.190
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	DSI 1	656000	3840	1	1	19.28	20.00	1.180	-	-	-0.04	0.227	0.268
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 1	DSI 1	656000	3840	1	1	19.04	20.00	1.247	-	-	-0.07	0.236	0.294
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 1	DSI 1	633334	3500.01	1	1	18.71	20.00	1.346	-	-	0.1	0.077	0.104



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	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 1	DSI 1	633334	3500.01	1	1	18.52	20.00	1.406	-	-	0.09	0.085	0.120
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	DSI 1	633334	3500.01	1	1	18.71	20.00	1.346	-	-	-0.08	0.130	0.175
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 1	DSI 1	633334	3500.01	1	1	18.52	20.00	1.406	-	-	0.02	0.144	0.202
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 1	656000	3840	1	1	19.75	20.00	1.059	-	-	-0.17	0.108	0.114
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 1	656000	3840	1	1	19.65	20.00	1.084	-	-	0.09	0.077	0.083
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 1	656000	3840	1	1	19.75	20.00	1.059	-	-	-0.09	0.154	0.163
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 1	656000	3840	1	1	19.65	20.00	1.084	-	-	0.16	0.125	0.135
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 1	633334	3500.01	1	1	19.30	20.00	1.175	-	-	0.05	0.148	0.174
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 1	633334	3500.01	1	1	19.15	20.00	1.216	-	-	0.14	0.142	0.173
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 1	633334	3500.01	1	1	19.30	20.00	1.175	-	-	-0.12	0.121	0.142
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 1	633334	3500.01	1	1	19.15	20.00	1.216	-	-	0.13	0.123	0.150
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 1	656000	3840	1	1	19.31	20.00	1.172	-	-	-0.04	0.066	0.077
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 1	656000	3840	1	1	19.12	20.00	1.225	-	-	0.11	0.058	0.071
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 1	656000	3840	1	1	19.31	20.00	1.172	-	-	0.01	0.122	0.143
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 1	656000	3840	1	1	19.12	20.00	1.225	-	-	0.19	0.114	0.140
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 1	633334	3500.01	1	1	19.41	20.00	1.146	-	-	-0.19	0.060	0.069
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 1	633334	3500.01	1	1	19.39	20.00	1.151	-	-	0.17	0.050	0.058
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 1	633334	3500.01	1	1	19.41	20.00	1.146	-	-	-0.04	0.145	0.166
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 1	633334	3500.01	1	1	19.39	20.00	1.151	-	-	-0.01	0.130	0.150
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 1	650000	3750	1	1	22.38	24.00	1.452	-	-	-0.08	0.060	0.087
	FR1 n78_HPUE_Part27O	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 1	650000	3750	1	1	22.33	24.00	1.469	-	-	0.06	0.058	0.085
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 1	650000	3750	1	1	22.38	24.00	1.452	-	-	-0.08	0.316	0.459
	FR1 n78_HPUE_Part27O	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 1	650000	3750	1	1	22.33	24.00	1.469	-	-	0.17	0.298	0.438
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 1	633334	3500.01	1	1	22.66	24.00	1.361	-	-	0.03	0.050	0.068
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 1	633334	3500.01	1	1	22.64	24.00	1.368	-	-	0.09	0.041	0.056
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 1	633334	3500.01	1	1	22.66	24.00	1.361	-	-	-0.13	0.274	0.373
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 1	633334	3500.01	1	1	22.64	24.00	1.368	-	-	0.03	0.183	0.250
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 1	DSI 1	650000	3750	1	1	19.43	21.00	1.435	-	-	-0.18	0.199	0.286
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 1	DSI 1	650000	3750	1	1	19.12	21.00	1.542	-	-	0.03	0.244	0.376
63	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	DSI 1	650000	3750	1	1	19.43	21.00	1.435	-	-	0.09	0.375	0.538
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 1	DSI 1	650000	3750	1	1	19.12	21.00	1.542	-	-	0.17	0.318	0.490
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 1	DSI 1	633334	3500.01	1	1	19.55	21.00	1.396	-	-	-0.06	0.102	0.142
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 1	DSI 1	633334	3500.01	1	1	19.52	21.00	1.406	-	-	-0.14	0.125	0.176
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	DSI 1	633334	3500.01	1	1	19.55	21.00	1.396	-	-	0.12	0.192	0.268
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 1	DSI 1	633334	3500.01	1	1	19.52	21.00	1.406	-	-	-0.04	0.214	0.301
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 1	650000	3750	1	1	20.58	21.00	1.102	-	-	0.04	0.192	0.211
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 1	650000	3750	1	1	20.37	21.00	1.156	-	-	0.19	0.145	0.168
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 1	650000	3750	1	1	20.58	21.00	1.102	-	-	0.01	0.276	0.304
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 1	650000	3750	1	1	20.37	21.00	1.156	-	-	0.16	0.213	0.246
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 1	633334	3500.01	1	1	20.43	21.00	1.140	-	-	0.16	0.189	0.216
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 1	633334	3500.01	1	1	20.42	21.00	1.143	-	-	0.09	0.195	0.223
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 1	633334	3500.01	1	1	20.43	21.00	1.140	-	-	-0.06	0.153	0.174
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 1	633334	3500.01	1	1	20.42	21.00	1.143	-	-	0.1	0.175	0.200
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 1	650000	3750	1	1	20.25	21.00	1.189	-	-	-0.1	0.070	0.083
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 1	650000	3750	1	1	20.22	21.00	1.197	-	-	-0.19	0.062	0.074
	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 1	650000	3750	1	1	20.25	21.00	1.189	-	-	-0.04	0.155	0.184
	FR1 n78_Part27O	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 1	650000	3750	1	1	20.22	21.00	1.197	-	-	-0.16	0.135	0.162
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 1	633334	3500.01	1	1	20.33	21.00	1.167	-	-	-0.02	0.082	0.096
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 1	633334	3500.01	1	1	20.27	21.00	1.183	-	-	0.12	0.063	0.075
	FR1 n78_Part27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 1	633334	3500.01	1	1	20.33	21.00	1.167	-	-	-0.01	0.185	0.216
	FR1 n78_Part27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 1	633334	3500.01	1	1	20.27	21.00	1.183	-	-	-0.18	0.178	0.211



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	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)
WIFI&BT																		
	WLAN 2.4GHz	802.11b 1Mbps	Front	15mm	Ant 7	Full	11	2462	1	1	18.90	19.00	1.023	99.2	1.008	0.02	0.146	0.151
64	WLAN 2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7	Full	11	2462	1	1	18.90	19.00	1.023	99.2	1.008	0.07	0.272	0.281
65	Bluetooth	1Mbps	Back	15mm	Ant 7	Full	78	2480	1	1	2.10	3.00	1.230	77.20	1.295	0.09	0.031	0.049
	WLAN5.3GHz	802.11a 6Mbps	Front	15mm	Ant 7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	0.05	0.193	0.201
66	WLAN5.3GHz	802.11a 6Mbps	Back	15mm	Ant 7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	-0.01	0.462	0.481
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7	Simultaneous	58	5290	1	1	14.70	15.00	1.072	92.9	1.076	-0.01	0.285	0.329
	WLAN5.5GHz	802.11a 6Mbps	Front	15mm	Ant 7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	0.01	0.160	0.167
67	WLAN5.5GHz	802.11a 6Mbps	Back	15mm	Ant 7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	-0.04	0.602	0.626
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7	Simultaneous	122	5610	1	1	14.10	14.50	1.096	92.9	1.076	-0.06	0.289	0.341
	WLAN5.8GHz	802.11a 6Mbps	Front	15mm	Ant 7	Standalone	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	-0.09	0.126	0.131
68	WLAN5.8GHz	802.11a 6Mbps	Back	15mm	Ant 7	Standalone	149	5745	1	1	17.90	18.00	1.023	98.3	1.017	-0.06	0.446	0.464
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7	Simultaneous	155	5775	1	1	15.90	16.00	1.023	92.9	1.076	0.02	0.274	0.302

**15.4 Product specific 10g SAR**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	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)
1750MHz																						
69	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	1413	1732.6	1	1	23.09	24.00	1.233	-	-	0.08	2.020	2.491
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	1312	1712.4	1	1	23.07	24.00	1.239	-	-	-0.02	2.030	2.515
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	1513	1752.6	1	1	23.03	24.00	1.250	-	-	0.07	1.970	2.463
70	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 1	20175	1732.5	1	1	22.63	24.00	1.371	-	-	0.03	1.880	2.577
	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 1	20175	1732.5	1	2	22.63	24.00	1.371	-	-	0.01	1.740	2.385
	LTE Band 4	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	20175	1732.5	1	1	21.68	23.00	1.355	-	-	0.08	1.570	2.128
	LTE Band 4	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 1	20175	1732.5	1	1	21.62	23.00	1.374	-	-	0.01	1.580	2.171
71	FR1 n66	30M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI 2	349000	1745	1	1	23.22	24.00	1.197	-	-	0.07	1.840	2.202
1900MHz																						
72	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	DSI 1	661	1880	1	1	23.67	24.30	1.156	-	-	-0.05	0.936	1.082
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	DSI 1	661	1880	1	1	23.67	24.30	1.156	-	-	0.04	1.960	2.266
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	DSI 1	512	1850.2	1	1	23.62	24.30	1.169	-	-	0.07	1.970	2.304
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	DSI 1	810	1909.8	1	1	23.36	24.30	1.242	-	-	0.03	2.340	2.905
73	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 1	9400	1880	1	1	21.24	21.90	1.164	-	-	-0.08	2.040	2.375
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 1	9262	1852.4	1	1	21.17	21.90	1.183	-	-	0.06	2.160	2.555
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 1	9538	1907.6	1	1	21.19	21.90	1.178	-	-	0.01	1.940	2.285
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	9400	1880	1	1	21.24	21.90	1.164	-	-	0.03	2.660	3.097
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	9262	1852.4	1	1	21.17	21.90	1.183	-	-	0.02	2.620	3.100
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	9538	1907.6	1	1	21.19	21.90	1.178	-	-	0.13	2.510	2.956
74	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 1	18900	1880	1	1	20.66	21.70	1.271	-	-	-0.09	1.850	2.351
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 1	18700	1860	1	1	20.64	21.70	1.276	-	-	0.16	1.920	2.451
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 1	19100	1900	1	1	20.58	21.70	1.294	-	-	0.06	1.710	2.213
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 1	18900	1880	1	1	20.65	21.70	1.274	-	-	0.09	1.590	2.025
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 1	18700	1860	1	1	20.46	21.70	1.330	-	-	-0.16	1.550	2.062
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 1	19100	1900	1	1	20.48	21.70	1.324	-	-	0.05	1.430	1.894
	LTE Band 2	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 1	18900	1880	1	1	20.47	21.70	1.327	-	-	0.04	1.470	1.951
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 1	18900	1880	1	1	20.66	21.70	1.271	-	-	-0.07	2.440	3.100
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 1	18900	1880	1	2	20.66	21.70	1.271	-	-	0.04	1.940	2.465
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 1	18700	1860	1	1	20.64	21.70	1.276	-	-	-0.07	2.350	3.000
75	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 1	19100	1900	1	1	20.58	21.70	1.294	-	-	-0.14	2.250	2.912
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	18900	1880	1	1	20.65	21.70	1.274	-	-	0.11	1.960	2.496
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	18700	1860	1	1	20.46	21.70	1.330	-	-	0.06	1.940	2.581
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 1	19100	1900	1	1	20.48	21.70	1.324	-	-	0.07	1.990	2.635
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 1	18900	1880	1	1	20.47	21.70	1.327	-	-	0.08	1.960	2.602
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI 1	376000	1880	1	1	19.39	20.40	1.262	-	-	-0.07	1.100	1.388
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	0mm	Ant 0	DSI 1	376000	1880	1	1	19.34	20.40	1.276	-	-	-0.17	1.050	1.340
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 1	376000	1880	1	1	19.39	20.40	1.262	-	-	0.11	1.950	2.461
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 1	372000	1860	1	1	19.24	20.40	1.306	-	-	0.02	1.420	1.855
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 1	380000	1900	1	1	19.29	20.40	1.291	-	-	0.04	1.290	1.666
75	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 0	DSI 1	376000	1880	1	1	19.34	20.40	1.276	-	-	-0.08	1.850	2.361
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 0	DSI 1	372000	1860	1	1	19.28	20.40	1.294	-	-	-0.02	1.340	1.734
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 0	DSI 1	380000	1900	1	1	19.22	20.40	1.312	-	-	0.06	1.220	1.601
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	0mm	Ant 0	DSI 1	376000	1880	1	1	19.29	20.40	1.291	-	-	0.07	1.510	1.950
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	376000	1880	1	1	19.39	20.40	1.262	-	-	-0.05	2.450	3.091
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	372000	1860	1	1	19.24	20.40	1.306	-	-	-0.14	1.690	2.207
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	380000	1900	1	1	19.29	20.40	1.291	-	-	0.14	1.740	2.247
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	376000	1880	1	1	19.34	20.40	1.276	-	-	-0.15	2.210	2.821



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	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	372000	1860	1	1	19.28	20.40	1.294	-	-	-0.15	1.680	2.174
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	380000	1900	1	1	19.22	20.40	1.312	-	-	0.02	1.690	2.218
	FR1 n2	20M	QPSK	100	0	DFT-15	Bottom Side	0mm	Ant 0	DSI 1	376000	1880	1	1	19.29	20.40	1.291	-	-	0.14	2.030	2.621
2600MHz																						
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	1	1	22.52	23.30	1.197	-	-	-0.1	2.290	2.741
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 1	20850	2510	1	1	22.32	23.30	1.253	-	-	0.19	2.270	2.845
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 1	21350	2560	1	1	22.35	23.30	1.245	-	-	-0.02	2.290	2.850
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	1	1	21.70	23.00	1.349	-	-	-0.14	1.890	2.550
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	20850	2510	1	1	21.34	23.00	1.466	-	-	-0.06	1.900	2.785
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	21350	2560	1	1	21.51	23.00	1.409	-	-	-0.03	1.960	2.762
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	1	1	21.61	23.00	1.377	-	-	-0.13	1.890	2.603
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	21100	2535	1	1	22.52	23.30	1.197	-	-	-0.1	2.290	2.741
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	20850	2510	1	1	22.32	23.30	1.253	-	-	-0.11	2.020	2.531
76	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	21350	2560	1	1	22.35	23.30	1.245	-	-	0.17	2.490	3.099
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 1	21100	2535	1	1	21.70	23.00	1.349	-	-	0.03	1.840	2.482
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 1	20850	2510	1	1	21.34	23.00	1.466	-	-	0.19	1.690	2.477
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 1	21350	2560	1	1	21.50	23.00	1.409	-	-	0.03	2.090	2.945
	LTE Band 7	20M	QPSK	100	0	-	Top Side	0mm	Ant 2	DSI 1	21100	2535	1	1	21.61	23.00	1.377	-	-	-0.04	1.840	2.534
77	FR1 n7	50M	QPSK	1	1	DFT-15	Back	0mm	Ant 2	DSI 1	507000	2535	1	1	21.78	22.50	1.180	-	-	-0.06	2.520	2.974
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	0mm	Ant 2	DSI 1	507000	2535	1	1	21.77	22.50	1.183	-	-	0.1	2.350	2.780
	FR1 n7	50M	QPSK	270	0	DFT-15	Back	0mm	Ant 2	DSI 1	507000	2535	1	1	21.73	22.50	1.194	-	-	0.08	2.030	2.424
	FR1 n7	50M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 2	DSI 1	507000	2535	1	1	21.78	22.50	1.180	-	-	-0.12	2.040	2.408
	FR1 n7	50M	QPSK	135	68	DFT-15	Top Side	0mm	Ant 2	DSI 1	507000	2535	1	1	21.77	22.50	1.183	-	-	-0.01	2.280	2.697
	FR1 n7	50M	QPSK	270	0	DFT-15	Top Side	0mm	Ant 2	DSI 1	507000	2535	1	1	21.73	22.50	1.194	-	-	-0.04	1.610	1.922
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	40620	2593	1	1	23.57	24.00	1.104	62.9	1.006	-0.15	2.140	2.377
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	39750	2506	1	1	23.21	24.00	1.199	62.9	1.006	0.04	1.630	1.967
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	40185	2549.5	1	1	23.14	24.00	1.219	62.9	1.006	-0.06	1.920	2.355
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	41055	2636.5	1	1	23.23	24.00	1.194	62.9	1.006	-0.19	2.410	2.895
78	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	41490	2680	1	1	23.29	24.00	1.178	62.9	1.006	0.05	2.650	3.139
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	41490	2680	1	2	23.29	24.00	1.178	62.9	1.006	0.01	2.310	2.737
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	41490	2680	2	1	23.29	24.00	1.178	62.9	1.006	0.05	2.440	2.891
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 1	40620	2593	1	1	22.47	23.00	1.130	62.9	1.006	0.04	1.800	2.046
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 1	39750	2506	1	1	22.27	23.00	1.183	62.9	1.006	0.07	1.280	1.523
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 1	40185	2549.5	1	1	22.30	23.00	1.175	62.9	1.006	-0.06	1.530	1.808
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 1	41055	2636.5	1	1	22.41	23.00	1.146	62.9	1.006	-0.11	2.000	2.305
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 1	41490	2680	1	1	22.44	23.00	1.138	62.9	1.006	0.18	2.230	2.552
	LTE Band 41	20M	QPSK	100	0	-	Top Side	0mm	Ant 2	DSI 1	40620	2593	1	1	22.31	23.00	1.172	62.9	1.006	-0.15	2.310	2.724
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.16	22.50	1.361	-	-	0.08	1.620	2.206
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.13	22.50	1.371	-	-	-0.03	1.520	2.084
	FR1 n41-HPUE	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.11	22.50	1.377	-	-	-0.14	1.240	1.708
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.16	22.50	1.361	-	-	0	2.080	2.832
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.13	22.50	1.371	-	-	-0.11	1.920	2.632
	FR1 n41-HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.11	22.50	1.377	-	-	0.02	1.600	2.204
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.16	22.50	1.361	-	-	-0.19	1.430	1.947
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.13	22.50	1.371	-	-	-0.12	1.390	1.906
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.16	22.50	1.361	-	-	0.08	1.970	2.682
79	FR1 n41-HPUE	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.13	22.50	1.371	-	-	0.09	2.250	3.084
	FR1 n41-HPUE	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 2	DSI 1	518598	2592.99	1	1	21.11	22.50	1.377	-	-	0.01	1.770	2.438



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
3500MHz-3900MHz																				
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Back	0mm	Ant3	DSI 1	650000	3750	1	1	22.38	24.00	1.452	-0.09	0.889	1.291
	FR1 n78_HPUE_Part27O	100M	QPSK	135	69	DFT-30	Back	0mm	Ant3	DSI 1	650000	3750	1	1	22.33	24.00	1.469	0.07	0.735	1.080
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant3	DSI 1	650000	3750	1	1	22.38	24.00	1.452	0.06	1.880	2.730
	FR1 n78_HPUE_Part27O	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant3	DSI 1	650000	3750	1	2	22.38	24.00	1.452	0.01	1.620	2.352
	FR1 n78_HPUE_Part27O	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant3	DSI 1	650000	3750	1	1	22.33	24.00	1.469	0.09	1.710	2.512
	FR1 n78_HPUE_Part27O	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant3	DSI 1	650000	3750	1	1	22.22	23.00	1.197	-0.16	1.660	1.987
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant3	DSI 1	633334	3500.01	1	1	22.66	24.00	1.361	-0.14	0.745	1.014
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant3	DSI 1	633334	3500.01	1	1	22.64	24.00	1.368	0.08	0.647	0.885
80	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant3	DSI 1	633334	3500.01	1	1	22.66	24.00	1.361	-0.09	2.170	2.954
	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant3	DSI 1	633334	3500.01	1	2	22.66	24.00	1.361	0.01	2.090	2.845
	FR1 n78_HPUE_Part27Q	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant3	DSI 1	633334	3500.01	1	1	22.64	24.00	1.368	-0.01	1.820	2.489
	FR1 n78_HPUE_Part27Q	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant3	DSI 1	633334	3500.01	1	1	22.61	23.00	1.094	0.01	1.530	1.674

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	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)
WLAN																		
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	0.04	0.433	0.451
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	0.09	1.400	1.457
	WLAN5.3GHz	802.11a 6Mbps	Left Side	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	0.05	0.028	0.029
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	-0.03	0.294	0.306
81	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	-0.07	1.750	1.821
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant7	Standalone	52	5260	1	2	17.90	18.00	1.023	98.3	1.017	0.01	1.740	1.811
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant7	Simultaneous	58	5290	1	1	14.70	15.00	1.072	92.9	1.076	0.01	0.721	0.831
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	-0.02	0.465	0.484
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	0.03	1.690	1.759
	WLAN5.5GHz	802.11a 6Mbps	Left Side	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	-0.04	0.059	0.061
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	-0.06	0.441	0.459
82	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	-0.04	1.830	1.904
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant7	Standalone	116	5580	1	2	17.90	18.00	1.023	98.3	1.017	-0.04	1.550	1.613
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant7	Simultaneous	122	5610	1	1	14.10	14.50	1.096	92.9	1.076	0.01	0.701	0.827

15.5 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)	Battery	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)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 3	21100	2535	1	1	17.56	18.20	1.159	-	-	-0.16	1.020	1	1.182
2nd	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 3	21100	2535	1	1	17.56	18.20	1.159	-	-	-0.01	0.989	1.031	1.146
1st	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	26.45	27.00	1.135	-	-	-0.01	0.872	1	0.990
2nd	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 3	633334	3500.01	1	1	26.45	27.00	1.135	-	-	0.01	0.856	1.019	0.972
1st	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	650000	3750	1	1	20.58	21.00	1.102	-	-	0.05	0.956	1	1.053
2nd	FR1 n78_Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 3	650000	3750	1	1	20.58	21.00	1.102	-	-	0.01	0.898	1.065	0.989
1st	WLAN5.3GHz	-	-	-	-	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	-0.19	1.030	1	1.072
2nd	WLAN5.3GHz	-	-	-	-	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	52	5260	1	1	17.90	18.00	1.023	98.3	1.017	0.04	0.993	1.037	1.033
1st	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	0.03	0.965	1	1.004
2nd	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Left Tilted	0mm	Ant7	Standalone	116	5580	1	1	17.90	18.00	1.023	98.3	1.017	-0.01	0.951	1.015	0.990

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Battery	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)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	1312	1712.4	1	1	23.07	24.00	1.239	-	-	-0.02	2.030	1	2.515
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	1312	1712.4	1	1	23.07	24.00	1.239	-	-	0.01	1.940	1.046	2.403
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	9400	1880	1	1	21.24	21.90	1.164	-	-	0.03	2.660	1	3.097
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 1	9400	1880	1	1	21.24	21.90	1.164	-	-	-0.05	2.520	1.056	2.934
1st	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	41490	2680	1	1	23.29	24.00	1.178	62.9	1.006	0.05	2.650	1	3.139
2nd	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 1	41490	2680	1	1	23.29	24.00	1.178	62.9	1.006	0.02	2.490	1.064	2.950
1st	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant3	DSI 1	633334	3500.01	1	1	22.66	24.00	1.361	-	-	-0.09	2.170	1	2.954
2nd	FR1 n78_HPUE_Part27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant3	DSI 1	633334	3500.01	1	1	22.66	24.00	1.361	-	-	-0.01	2.140	1.014	2.913

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.
- 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.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- This device WLAN 2.4GHz supports hotspot operation and Bluetooth support tethering applications.
- This device 2.4GHz WLAN/ 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).
- EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment though they have independent antenna.
- WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can't transmit simultaneously.
- Chose the worse zoom scan SAR of WLAN2.4GHz SAR respectively for co-located with WWAN analysis.
- For Bluetooth SAR testing only perform the worst position of WLAN, so other position use this SAR value to do co-located with WWAN analysis.
- 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. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- All licensed modes share the same antenna part and cannot transmit simultaneously.
- The reported SAR summation is calculated based on the same configuration and test position
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, 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.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.

5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR (i.e., PD exposure for 5G FR2 or SAR exposure for 5G FR1), and $B \leq 1.0$.

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

if $A + C \leq 1.0$ and $B + C \leq 1.0$ can be proven, then " $x\% * A + (100-x)\% * B + C \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1


16.1 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		WWAN	WLAN2.4GHz Ant 7	WLAN5GHz Ant 7	Bluetooth Ant 7	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM850 Ant 0	Right Cheek	0.344	0.325	0.395	0.017	0.67	0.74	0.36
	Right Tilted	0.272	0.325	0.395	0.017	0.60	0.67	0.29
	Left Cheek	0.230	0.325	0.395	0.017	0.56	0.63	0.25
	Left Tilted	0.304	0.325	0.395	0.017	0.63	0.70	0.32
GSM1900 Ant 0	Right Cheek	0.180	0.325	0.395	0.017	0.51	0.58	0.20
	Right Tilted	0.161	0.325	0.395	0.017	0.49	0.56	0.18
	Left Cheek	0.161	0.325	0.395	0.017	0.49	0.56	0.18
	Left Tilted	0.128	0.325	0.395	0.017	0.45	0.52	0.15
WCDMA II Ant 0	Right Cheek	0.297	0.325	0.395	0.017	0.62	0.69	0.31
	Right Tilted	0.258	0.325	0.395	0.017	0.58	0.65	0.28
	Left Cheek	0.290	0.325	0.395	0.017	0.62	0.69	0.31
	Left Tilted	0.194	0.325	0.395	0.017	0.52	0.59	0.21
WCDMA IV Ant 0	Right Cheek	0.623	0.325	0.395	0.017	0.95	1.02	0.64
	Right Tilted	0.423	0.325	0.395	0.017	0.75	0.82	0.44
	Left Cheek	0.491	0.325	0.395	0.017	0.82	0.89	0.51
	Left Tilted	0.370	0.325	0.395	0.017	0.70	0.77	0.39
WCDMA V Ant 0	Right Cheek	0.294	0.325	0.395	0.017	0.62	0.69	0.31
	Right Tilted	0.222	0.325	0.395	0.017	0.55	0.62	0.24
	Left Cheek	0.406	0.325	0.395	0.017	0.73	0.80	0.42
	Left Tilted	0.238	0.325	0.395	0.017	0.56	0.63	0.26
LTE Band 2 Ant 0	Right Cheek	0.294	0.325	0.395	0.017	0.62	0.69	0.31
	Right Tilted	0.267	0.325	0.395	0.017	0.59	0.66	0.28
	Left Cheek	0.284	0.325	0.395	0.017	0.61	0.68	0.30
	Left Tilted	0.216	0.325	0.395	0.017	0.54	0.61	0.23
LTE Band 4 Ant 0	Right Cheek	0.644	0.325	0.395	0.017	0.97	1.04	0.66
	Right Tilted	0.437	0.325	0.395	0.017	0.76	0.83	0.45
	Left Cheek	0.480	0.325	0.395	0.017	0.81	0.88	0.50
	Left Tilted	0.384	0.325	0.395	0.017	0.71	0.78	0.40
LTE Band 5 Ant 0	Right Cheek	0.273	0.325	0.395	0.017	0.60	0.67	0.29
	Right Tilted	0.199	0.325	0.395	0.017	0.52	0.59	0.22
	Left Cheek	0.381	0.325	0.395	0.017	0.71	0.78	0.40
	Left Tilted	0.221	0.325	0.395	0.017	0.55	0.62	0.24
LTE Band 7 Ant 2	Right Cheek	1.182	0.325	0.395	0.017	1.51	1.58	1.20
	Right Tilted	1.008	0.325	0.395	0.017	1.33	1.40	1.03
	Left Cheek	0.516	0.325	0.395	0.017	0.84	0.91	0.53
	Left Tilted	0.554	0.325	0.395	0.017	0.88	0.95	0.57
LTE Band 41 Ant 2	Right Cheek	1.187	0.325	0.395	0.017	1.51	1.58	1.20
	Right Tilted	1.035	0.325	0.395	0.017	1.36	1.43	1.05
	Left Cheek	0.502	0.325	0.395	0.017	0.83	0.90	0.52
	Left Tilted	0.563	0.325	0.395	0.017	0.89	0.96	0.58
LTE Band 42 Part27Q Ant 3	Right Cheek	0.274	0.325	0.395	0.017	0.60	0.67	0.29
	Right Tilted	0.175	0.325	0.395	0.017	0.50	0.57	0.19
	Left Cheek	0.201	0.325	0.395	0.017	0.53	0.60	0.22
	Left Tilted	0.151	0.325	0.395	0.017	0.48	0.55	0.17



FCC SAR Test Report

Report No. : FA212805

FR1 Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		FR1	WLAN2.4GHz Ant 7	WLAN5GHz Ant 7	Bluetooth Ant 7	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n5 Ant 0	Right Cheek	0.297	0.325	0.395	0.017	0.62	0.69	0.31
	Right Tilted	0.224	0.325	0.395	0.017	0.55	0.62	0.24
	Left Cheek	0.432	0.325	0.395	0.017	0.76	0.83	0.45
	Left Tilted	0.253	0.325	0.395	0.017	0.58	0.65	0.27
FR1 n66 Ant 0	Right Cheek	0.642	0.325	0.395	0.017	0.97	1.04	0.66
	Right Tilted	0.426	0.325	0.395	0.017	0.75	0.82	0.44
	Left Cheek	0.471	0.325	0.395	0.017	0.80	0.87	0.49
	Left Tilted	0.361	0.325	0.395	0.017	0.69	0.76	0.38
FR1 n2 Ant 0	Right Cheek	0.275	0.325	0.395	0.017	0.60	0.67	0.29
	Right Tilted	0.231	0.325	0.395	0.017	0.56	0.63	0.25
	Left Cheek	0.248	0.325	0.395	0.017	0.57	0.64	0.27
	Left Tilted	0.173	0.325	0.395	0.017	0.50	0.57	0.19
FR1 n7 Ant 2	Right Cheek	1.182	0.325	0.395	0.017	1.51	1.58	1.20
	Right Tilted	0.988	0.325	0.395	0.017	1.31	1.38	1.01
	Left Cheek	0.521	0.325	0.395	0.017	0.85	0.92	0.54
	Left Tilted	0.546	0.325	0.395	0.017	0.87	0.94	0.56
FR1 n41-HPUE Ant 2	Right Cheek	1.190	0.325	0.395	0.017	1.52	1.59	1.21
	Right Tilted	1.091	0.325	0.395	0.017	1.42	1.49	1.11
	Left Cheek	0.589	0.325	0.395	0.017	0.91	0.98	0.61
	Left Tilted	0.639	0.325	0.395	0.017	0.96	1.03	0.66
FR1 n41 Ant 1	Right Cheek	0.047	0.325	0.395	0.017	0.37	0.44	0.06
	Right Tilted	0.012	0.325	0.395	0.017	0.34	0.41	0.03
	Left Cheek	0.012	0.325	0.395	0.017	0.34	0.41	0.03
	Left Tilted	0.012	0.325	0.395	0.017	0.34	0.41	0.03
FR1 n41 Ant 4	Right Cheek	0.368	0.325	0.395	0.017	0.69	0.76	0.39
	Right Tilted	0.260	0.325	0.395	0.017	0.59	0.66	0.28
	Left Cheek	0.622	0.325	0.395	0.017	0.95	1.02	0.64
	Left Tilted	0.365	0.325	0.395	0.017	0.69	0.76	0.38
FR1 n41 Ant 6	Right Cheek	0.298	0.325	0.395	0.017	0.62	0.69	0.32
	Right Tilted	0.220	0.325	0.395	0.017	0.55	0.62	0.24
	Left Cheek	0.328	0.325	0.395	0.017	0.65	0.72	0.35
	Left Tilted	0.172	0.325	0.395	0.017	0.50	0.57	0.19
FR1 n77 Part27O Ant 3	Right Cheek	0.497	0.325	0.395	0.017	0.82	0.89	0.51
	Right Tilted	0.345	0.325	0.395	0.017	0.67	0.74	0.36
	Left Cheek	0.360	0.325	0.395	0.017	0.69	0.76	0.38
	Left Tilted	0.290	0.325	0.395	0.017	0.62	0.69	0.31
FR1 n77_Part27Q Ant 3	Right Cheek	0.660	0.325	0.395	0.017	0.99	1.06	0.68
	Right Tilted	0.451	0.325	0.395	0.017	0.78	0.85	0.47
	Left Cheek	0.439	0.325	0.395	0.017	0.76	0.83	0.46
	Left Tilted	0.437	0.325	0.395	0.017	0.76	0.83	0.45
FR1 n77 Part27O Ant 1	Right Cheek	0.150	0.325	0.395	0.017	0.48	0.55	0.17
	Right Tilted	0.121	0.325	0.395	0.017	0.45	0.52	0.14
	Left Cheek	0.138	0.325	0.395	0.017	0.46	0.53	0.16
	Left Tilted	0.089	0.325	0.395	0.017	0.41	0.48	0.11
FR1 n77_Part27Q Ant1	Right Cheek	0.069	0.325	0.395	0.017	0.39	0.46	0.09
	Right Tilted	0.059	0.325	0.395	0.017	0.38	0.45	0.08
	Left Cheek	0.079	0.325	0.395	0.017	0.40	0.47	0.10
	Left Tilted	0.058	0.325	0.395	0.017	0.38	0.45	0.08
FR1 n77 Part27O Ant 4	Right Cheek	0.221	0.325	0.395	0.017	0.55	0.62	0.24
	Right Tilted	0.176	0.325	0.395	0.017	0.50	0.57	0.19
	Left Cheek	0.567	0.325	0.395	0.017	0.89	0.96	0.58
	Left Tilted	0.325	0.325	0.395	0.017	0.65	0.72	0.34



FR1 n77_Part27Q Ant 4	Right Cheek	0.311	0.325	0.395	0.017	0.64	0.71	0.33
	Right Tilted	0.196	0.325	0.395	0.017	0.52	0.59	0.21
	Left Cheek	0.712	0.325	0.395	0.017	1.04	1.11	0.73
	Left Tilted	0.364	0.325	0.395	0.017	0.69	0.76	0.38
FR1 n77_Part27O Ant 5	Right Cheek	0.265	0.325	0.395	0.017	0.59	0.66	0.28
	Right Tilted	0.075	0.325	0.395	0.017	0.40	0.47	0.09
	Left Cheek	0.314	0.325	0.395	0.017	0.64	0.71	0.33
	Left Tilted	0.159	0.325	0.395	0.017	0.48	0.55	0.18
FR1 n77_Part27Q Ant 5	Right Cheek	0.315	0.325	0.395	0.017	0.64	0.71	0.33
	Right Tilted	0.085	0.325	0.395	0.017	0.41	0.48	0.10
	Left Cheek	0.275	0.325	0.395	0.017	0.60	0.67	0.29
	Left Tilted	0.137	0.325	0.395	0.017	0.46	0.53	0.15
FR1 n78_HPUE_Part27O Ant 3	Right Cheek	0.654	0.325	0.395	0.017	0.98	1.05	0.67
	Right Tilted	0.447	0.325	0.395	0.017	0.77	0.84	0.46
	Left Cheek	0.543	0.325	0.395	0.017	0.87	0.94	0.56
	Left Tilted	0.416	0.325	0.395	0.017	0.74	0.81	0.43
FR1 n78_HPUE_Part27Q Ant 3	Right Cheek	0.990	0.325	0.395	0.017	1.32	1.39	1.01
	Right Tilted	0.672	0.325	0.395	0.017	1.00	1.07	0.69
	Left Cheek	0.610	0.325	0.395	0.017	0.94	1.01	0.63
	Left Tilted	0.610	0.325	0.395	0.017	0.94	1.01	0.63
FR1 n78_Part27O Ant 1	Right Cheek	0.135	0.325	0.395	0.017	0.46	0.53	0.15
	Right Tilted	0.117	0.325	0.395	0.017	0.44	0.51	0.13
	Left Cheek	0.198	0.325	0.395	0.017	0.52	0.59	0.22
	Left Tilted	0.103	0.325	0.395	0.017	0.43	0.50	0.12
FR1 n78_Part27Q Ant 1	Right Cheek	0.057	0.325	0.395	0.017	0.38	0.45	0.07
	Right Tilted	0.053	0.325	0.395	0.017	0.38	0.45	0.07
	Left Cheek	0.121	0.325	0.395	0.017	0.45	0.52	0.14
	Left Tilted	0.014	0.325	0.395	0.017	0.34	0.41	0.03
FR1 n78_Part27O Ant 4	Right Cheek	0.475	0.325	0.395	0.017	0.80	0.87	0.49
	Right Tilted	0.340	0.325	0.395	0.017	0.67	0.74	0.36
	Left Cheek	1.053	0.325	0.395	0.017	1.38	1.45	1.07
	Left Tilted	0.620	0.325	0.395	0.017	0.95	1.02	0.64
FR1 n78_Part27Q Ant 4	Right Cheek	0.391	0.325	0.395	0.017	0.72	0.79	0.41
	Right Tilted	0.262	0.325	0.395	0.017	0.59	0.66	0.28
	Left Cheek	0.919	0.325	0.395	0.017	1.24	1.31	0.94
	Left Tilted	0.468	0.325	0.395	0.017	0.79	0.86	0.49
FR1 n78_Part27O Ant 5	Right Cheek	0.313	0.325	0.395	0.017	0.64	0.71	0.33
	Right Tilted	0.067	0.325	0.395	0.017	0.39	0.46	0.08
	Left Cheek	0.337	0.325	0.395	0.017	0.66	0.73	0.35
	Left Tilted	0.143	0.325	0.395	0.017	0.47	0.54	0.16
FR1 n78_Part27Q Ant 5	Right Cheek	0.422	0.325	0.395	0.017	0.75	0.82	0.44
	Right Tilted	0.116	0.325	0.395	0.017	0.44	0.51	0.13
	Left Cheek	0.366	0.325	0.395	0.017	0.69	0.76	0.38
	Left Tilted	0.200	0.325	0.395	0.017	0.53	0.60	0.22

**16.2 Hotspot Exposure Conditions**

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		WWAN	WLAN2.4GHz Ant 7	WLAN5GHz Ant 7	Bluetooth Ant 7	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM850 Ant 0	Front	0.409	0.629	0.648	0.024	1.04	1.06	0.43
	Back	0.468	0.629	0.648	0.024	1.10	1.12	0.49
	Left side	0.357	0.629	0.648	0.024	0.99	1.01	0.38
	Right side	0.327	0.629	0.648	0.024	0.96	0.98	0.35
	Bottom side	0.121	0.629	0.648	0.024	0.75	0.77	0.15
GSM1900 Ant 0	Front	0.346	0.629	0.648	0.024	0.98	0.99	0.37
	Back	0.542	0.629	0.648	0.024	1.17	1.19	0.57
	Left side	0.057	0.629	0.648	0.024	0.69	0.71	0.08
	Right side	0.121	0.629	0.648	0.024	0.75	0.77	0.15
	Bottom side	0.928	0.629	0.648	0.024	1.56	1.58	0.95
WCDMA II Ant 0	Front	0.338	0.629	0.648	0.024	0.97	0.99	0.36
	Back	0.571	0.629	0.648	0.024	1.20	1.22	0.60
	Left side	0.054	0.629	0.648	0.024	0.68	0.70	0.08
	Right side	0.133	0.629	0.648	0.024	0.76	0.78	0.16
	Bottom side	0.927	0.629	0.648	0.024	1.56	1.58	0.95
WCDMA IV Ant 0	Front	0.772	0.629	0.648	0.024	1.40	1.42	0.80
	Back	0.605	0.629	0.648	0.024	1.23	1.25	0.63
	Left side	0.105	0.629	0.648	0.024	0.73	0.75	0.13
	Right side	0.588	0.629	0.648	0.024	1.22	1.24	0.61
	Bottom side	0.936	0.629	0.648	0.024	1.57	1.58	0.96
WCDMA V Ant 0	Front	0.469	0.629	0.648	0.024	1.10	1.12	0.49
	Back	0.507	0.629	0.648	0.024	1.14	1.16	0.53
	Left side	0.379	0.629	0.648	0.024	1.01	1.03	0.40
	Right side	0.300	0.629	0.648	0.024	0.93	0.95	0.32
	Bottom side	0.161	0.629	0.648	0.024	0.79	0.81	0.19
LTE Band 2 Ant 0	Front	0.348	0.629	0.648	0.024	0.98	1.00	0.37
	Back	0.597	0.629	0.648	0.024	1.23	1.25	0.62
	Left side	0.053	0.629	0.648	0.024	0.68	0.70	0.08
	Right side	0.122	0.629	0.648	0.024	0.75	0.77	0.15
	Bottom side	0.929	0.629	0.648	0.024	1.56	1.58	0.95
LTE Band 4 Ant 0	Front	0.756	0.629	0.648	0.024	1.39	1.40	0.78
	Back	0.624	0.629	0.648	0.024	1.25	1.27	0.65
	Left side	0.092	0.629	0.648	0.024	0.72	0.74	0.12
	Right side	0.624	0.629	0.648	0.024	1.25	1.27	0.65
	Bottom side	0.929	0.629	0.648	0.024	1.56	1.58	0.95
LTE Band 5 Ant 0	Front	0.446	0.629	0.648	0.024	1.08	1.09	0.47
	Back	0.469	0.629	0.648	0.024	1.10	1.12	0.49
	Left side	0.348	0.629	0.648	0.024	0.98	1.00	0.37
	Right side	0.286	0.629	0.648	0.024	0.92	0.93	0.31
	Bottom side	0.136	0.629	0.648	0.024	0.77	0.78	0.16
LTE Band 7 Ant 2	Front	0.325	0.629	0.648	0.024	0.95	0.97	0.35
	Back	0.622	0.629	0.648	0.024	1.25	1.27	0.65
	Left side	0.397	0.629	0.648	0.024	1.03	1.05	0.42
	Right side	0.053	0.629	0.648	0.024	0.68	0.70	0.08
	Top side	0.931	0.629	0.648	0.024	1.56	1.58	0.96
LTE Band 41 Ant 2	Front	0.295	0.629	0.648	0.024	0.92	0.94	0.32
	Back	0.552	0.629	0.648	0.024	1.18	1.20	0.58
	Left side	0.325	0.629	0.648	0.024	0.95	0.97	0.35
	Right side	0.050	0.629	0.648	0.024	0.68	0.70	0.07
	Top side	0.939	0.629	0.648	0.024	1.57	1.59	0.96



LTE Band 42 Part27Q Ant 3	Front	0.043	0.629	0.648	0.024	0.67	0.69	0.07
	Back	0.142	0.629	0.648	0.024	0.77	0.79	0.17
	Left side	0.540	0.629	0.648	0.024	1.17	1.19	0.56
	Right side	0.047	0.629	0.648	0.024	0.68	0.70	0.07
	Top side	0.066	0.629	0.648	0.024	0.70	0.71	0.09
	Bottom side	0.030	0.629	0.648	0.024	0.66	0.68	0.05



FR1 Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		FR1	WLAN2.4GHz Ant 7	WLAN5GHz Ant 7	Bluetooth Ant 7	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n2 Ant 0	Front	0.375	0.629	0.648	0.024	1.00	1.02	0.40
	Back	0.922	0.629	0.648	0.024	1.55	1.57	0.95
	Left side	0.061	0.629	0.648	0.024	0.69	0.71	0.09
	Right side	0.145	0.629	0.648	0.024	0.77	0.79	0.17
	Top side		0.629	0.648	0.024	0.63	0.65	0.02
	Bottom side	0.935	0.629	0.648	0.024	1.56	1.58	0.96
FR1 n5 Ant 0	Front	0.333	0.629	0.648	0.024	0.96	0.98	0.36
	Back	0.518	0.629	0.648	0.024	1.15	1.17	0.54
	Left side	0.231	0.629	0.648	0.024	0.86	0.88	0.26
	Right side	0.195	0.629	0.648	0.024	0.82	0.84	0.22
	Top side		0.629	0.648	0.024	0.63	0.65	0.02
	Bottom side	0.107	0.629	0.648	0.024	0.74	0.76	0.13
FR1 n7 Ant 2	Front	0.398	0.629	0.648	0.024	1.03	1.05	0.42
	Back	0.759	0.629	0.648	0.024	1.39	1.41	0.78
	Left side	0.420	0.629	0.648	0.024	1.05	1.07	0.44
	Right side	0.055	0.629	0.648	0.024	0.68	0.70	0.08
	Top side	0.943	0.629	0.648	0.024	1.57	1.59	0.97
	Bottom side		0.629	0.648	0.024	0.63	0.65	0.02
FR1 n41-HPUE Ant 2	Front	0.461	0.629	0.648	0.024	1.09	1.11	0.49
	Back	0.804	0.629	0.648	0.024	1.43	1.45	0.83
	Left side	0.461	0.629	0.648	0.024	1.09	1.11	0.49
	Right side	0.077	0.629	0.648	0.024	0.71	0.73	0.10
	Top side	0.924	0.629	0.648	0.024	1.55	1.57	0.95
	Bottom side		0.629	0.648	0.024	0.63	0.65	0.02
FR1 n41 Ant 1	Front	0.012	0.629	0.648	0.024	0.64	0.66	0.04
	Back	0.145	0.629	0.648	0.024	0.77	0.79	0.17
	Left side	0.243	0.629	0.648	0.024	0.87	0.89	0.27
	Right side	0.012	0.629	0.648	0.024	0.64	0.66	0.04
	Top side	0.012	0.629	0.648	0.024	0.64	0.66	0.04
	Bottom side	0.012	0.629	0.648	0.024	0.64	0.66	0.04
FR1 n41 Ant 4	Front	0.504	0.629	0.648	0.024	1.13	1.15	0.53
	Back	0.308	0.629	0.648	0.024	0.94	0.96	0.33
	Left side	0.062	0.629	0.648	0.024	0.69	0.71	0.09
	Right side	0.673	0.629	0.648	0.024	1.30	1.32	0.70
	Top side	0.154	0.629	0.648	0.024	0.78	0.80	0.18
	Bottom side	0.040	0.629	0.648	0.024	0.67	0.69	0.06
FR1 n41 Ant 6	Front	0.047	0.629	0.648	0.024	0.68	0.70	0.07
	Back	0.278	0.629	0.648	0.024	0.91	0.93	0.30
	Left side	0.297	0.629	0.648	0.024	0.93	0.95	0.32
	Right side	0.007	0.629	0.648	0.024	0.64	0.66	0.03
	Top side	0.017	0.629	0.648	0.024	0.65	0.67	0.04
	Bottom side	0.015	0.629	0.648	0.024	0.64	0.66	0.04
FR1 n66 Ant 0	Front	0.849	0.629	0.648	0.024	1.48	1.50	0.87
	Back	0.912	0.629	0.648	0.024	1.54	1.56	0.94
	Left side	0.157	0.629	0.648	0.024	0.79	0.81	0.18
	Right side	0.617	0.629	0.648	0.024	1.25	1.27	0.64
	Top side		0.629	0.648	0.024	0.63	0.65	0.02
	Bottom side	0.936	0.629	0.648	0.024	1.57	1.58	0.96
FR1 n77 Part270 Ant3	Front	0.127	0.629	0.648	0.024	0.76	0.78	0.15
	Back	0.515	0.629	0.648	0.024	1.14	1.16	0.54
	Left side	0.599	0.629	0.648	0.024	1.23	1.25	0.62



	Right side	0.053	0.629	0.648	0.024	0.68	0.70	0.08
	Top side	0.166	0.629	0.648	0.024	0.80	0.81	0.19
	Bottom side	0.066	0.629	0.648	0.024	0.70	0.71	0.09
FR1 n77 Part27Q Ant3	Front	0.127	0.629	0.648	0.024	0.76	0.78	0.15
	Back	0.821	0.629	0.648	0.024	1.45	1.47	0.85
	Left side	0.878	0.629	0.648	0.024	1.51	1.53	0.90
	Right side	0.082	0.629	0.648	0.024	0.71	0.73	0.11
	Top side	0.196	0.629	0.648	0.024	0.83	0.84	0.22
	Bottom side	0.059	0.629	0.648	0.024	0.69	0.71	0.08
FR1 n77 Part27O Ant1	Front	0.304	0.629	0.648	0.024	0.93	0.95	0.33
	Back	0.367	0.629	0.648	0.024	1.00	1.02	0.39
	Left side	0.489	0.629	0.648	0.024	1.12	1.14	0.51
	Right side	0.076	0.629	0.648	0.024	0.71	0.72	0.10
	Top side	0.060	0.629	0.648	0.024	0.69	0.71	0.08
	Bottom side	0.116	0.629	0.648	0.024	0.75	0.76	0.14
FR1 n77 Part27Q Ant1	Front	0.061	0.629	0.648	0.024	0.69	0.71	0.09
	Back	0.089	0.629	0.648	0.024	0.72	0.74	0.11
	Left side	0.082	0.629	0.648	0.024	0.71	0.73	0.11
	Right side	0.046	0.629	0.648	0.024	0.68	0.69	0.07
	Top side	0.046	0.629	0.648	0.024	0.68	0.69	0.07
	Bottom side	0.052	0.629	0.648	0.024	0.68	0.70	0.08
FR1 n77 Part27O Ant4	Front	0.181	0.629	0.648	0.024	0.81	0.83	0.21
	Back	0.257	0.629	0.648	0.024	0.89	0.91	0.28
	Left side	0.050	0.629	0.648	0.024	0.68	0.70	0.07
	Right side	0.356	0.629	0.648	0.024	0.99	1.00	0.38
	Top side	0.171	0.629	0.648	0.024	0.80	0.82	0.20
	Bottom side	0.044	0.629	0.648	0.024	0.67	0.69	0.07
FR1 n77 Part27Q Ant4	Front	0.275	0.629	0.648	0.024	0.90	0.92	0.30
	Back	0.242	0.629	0.648	0.024	0.87	0.89	0.27
	Left side	0.047	0.629	0.648	0.024	0.68	0.70	0.07
	Right side	0.687	0.629	0.648	0.024	1.32	1.34	0.71
	Top side	0.182	0.629	0.648	0.024	0.81	0.83	0.21
	Bottom side	0.044	0.629	0.648	0.024	0.67	0.69	0.07
FR1 n77 Part27O Ant5	Front	0.111	0.629	0.648	0.024	0.74	0.76	0.14
	Back	0.256	0.629	0.648	0.024	0.89	0.90	0.28
	Left side	0.046	0.629	0.648	0.024	0.68	0.69	0.07
	Right side	0.300	0.629	0.648	0.024	0.93	0.95	0.32
	Top side	0.084	0.629	0.648	0.024	0.71	0.73	0.11
	Bottom side	0.039	0.629	0.648	0.024	0.67	0.69	0.06
FR1 n77 Part27Q Ant5	Front	0.109	0.629	0.648	0.024	0.74	0.76	0.13
	Back	0.274	0.629	0.648	0.024	0.90	0.92	0.30
	Left side	0.047	0.629	0.648	0.024	0.68	0.70	0.07
	Right side	0.320	0.629	0.648	0.024	0.95	0.97	0.34
	Top side	0.081	0.629	0.648	0.024	0.71	0.73	0.11
	Bottom side	0.040	0.629	0.648	0.024	0.67	0.69	0.06
FR1 n78_HPUE_Part27O Ant3	Front	0.182	0.629	0.648	0.024	0.81	0.83	0.21
	Back	0.829	0.629	0.648	0.024	1.46	1.48	0.85
	Left side	0.897	0.629	0.648	0.024	1.53	1.55	0.92
	Right side	0.104	0.629	0.648	0.024	0.73	0.75	0.13
	Top side	0.282	0.629	0.648	0.024	0.91	0.93	0.31
	Bottom side	0.077	0.629	0.648	0.024	0.71	0.73	0.10
FR1 n78_HPUE_Part27Q Ant3	Front	0.130	0.629	0.648	0.024	0.76	0.78	0.15
	Back	0.832	0.629	0.648	0.024	1.46	1.48	0.86
	Left side	0.928	0.629	0.648	0.024	1.56	1.58	0.95
	Right side	0.090	0.629	0.648	0.024	0.72	0.74	0.11
	Top side	0.192	0.629	0.648	0.024	0.82	0.84	0.22



	Bottom side	0.056	0.629	0.648	0.024	0.69	0.70	0.08
FR1 n78 _Part27O Ant1	Front	0.548	0.629	0.648	0.024	1.18	1.20	0.57
	Back	0.821	0.629	0.648	0.024	1.45	1.47	0.85
	Left side	0.769	0.629	0.648	0.024	1.40	1.42	0.79
	Right side	0.100	0.629	0.648	0.024	0.73	0.75	0.12
	Top side	0.082	0.629	0.648	0.024	0.71	0.73	0.11
	Bottom side	0.338	0.629	0.648	0.024	0.97	0.99	0.36
FR1 n78 _Part27Q Ant1	Front	0.267	0.629	0.648	0.024	0.90	0.92	0.29
	Back	0.470	0.629	0.648	0.024	1.10	1.12	0.49
	Left side	0.720	0.629	0.648	0.024	1.35	1.37	0.74
	Right side	0.063	0.629	0.648	0.024	0.69	0.71	0.09
	Top side	0.046	0.629	0.648	0.024	0.68	0.69	0.07
	Bottom side	0.147	0.629	0.648	0.024	0.78	0.80	0.17
FR1 n78 _Part27O Ant4	Front	0.366	0.629	0.648	0.024	1.00	1.01	0.39
	Back	0.498	0.629	0.648	0.024	1.13	1.15	0.52
	Left side	0.065	0.629	0.648	0.024	0.69	0.71	0.09
	Right side	0.782	0.629	0.648	0.024	1.41	1.43	0.81
	Top side	0.326	0.629	0.648	0.024	0.96	0.97	0.35
	Bottom side	0.058	0.629	0.648	0.024	0.69	0.71	0.08
FR1 n78 _Part27Q Ant4	Front	0.342	0.629	0.648	0.024	0.97	0.99	0.37
	Back	0.285	0.629	0.648	0.024	0.91	0.93	0.31
	Left side	0.061	0.629	0.648	0.024	0.69	0.71	0.09
	Right side	0.819	0.629	0.648	0.024	1.45	1.47	0.84
	Top side	0.230	0.629	0.648	0.024	0.86	0.88	0.25
	Bottom side	0.047	0.629	0.648	0.024	0.68	0.70	0.07
FR1 n78 _Part27O Ant5	Front	0.139	0.629	0.648	0.024	0.77	0.79	0.16
	Back	0.289	0.629	0.648	0.024	0.92	0.94	0.31
	Left side	0.043	0.629	0.648	0.024	0.67	0.69	0.07
	Right side	0.371	0.629	0.648	0.024	1.00	1.02	0.40
	Top side	0.086	0.629	0.648	0.024	0.72	0.73	0.11
	Bottom side	0.065	0.629	0.648	0.024	0.69	0.71	0.09
FR1 n78 _Part27Q Ant5	Front	0.184	0.629	0.648	0.024	0.81	0.83	0.21
	Back	0.400	0.629	0.648	0.024	1.03	1.05	0.42
	Left side	0.076	0.629	0.648	0.024	0.71	0.72	0.10
	Right side	0.495	0.629	0.648	0.024	1.12	1.14	0.52
	Top side	0.135	0.629	0.648	0.024	0.76	0.78	0.16
	Bottom side	0.074	0.629	0.648	0.024	0.70	0.72	0.10



16.3 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		WWAN	WLAN 2.4GHz Ant 7	WLAN5GHz Ant 7	Bluetooth Ant 7	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM850 Ant 0	Front	0.473	0.151	0.341	0.049	0.62	0.81	0.52
	Back	0.341	0.281	0.341	0.049	0.62	0.68	0.39
GSM1900 Ant 0	Front	0.453	0.151	0.341	0.049	0.60	0.79	0.50
	Back	0.691	0.281	0.341	0.049	0.97	1.03	0.74
WCDMA II Ant 0	Front	0.447	0.151	0.341	0.049	0.60	0.79	0.50
	Back	0.715	0.281	0.341	0.049	1.00	1.06	0.76
WCDMA IV Ant 0	Front	0.533	0.151	0.341	0.049	0.68	0.87	0.58
	Back	0.457	0.281	0.341	0.049	0.74	0.80	0.51
WCDMA V Ant 0	Front	0.300	0.151	0.341	0.049	0.45	0.64	0.35
	Back	0.282	0.281	0.341	0.049	0.56	0.62	0.33
LTE Band 2 Ant 0	Front	0.554	0.151	0.341	0.049	0.71	0.90	0.60
	Back	0.849	0.281	0.341	0.049	1.13	1.19	0.90
LTE Band 4 Ant 0	Front	0.525	0.151	0.341	0.049	0.68	0.87	0.57
	Back	0.446	0.281	0.341	0.049	0.73	0.79	0.50
LTE Band 5 Ant 0	Front	0.289	0.151	0.341	0.049	0.44	0.63	0.34
	Back	0.260	0.281	0.341	0.049	0.54	0.60	0.31
LTE Band 7 Ant 2	Front	0.317	0.151	0.341	0.049	0.47	0.66	0.37
	Back	0.872	0.281	0.341	0.049	1.15	1.21	0.92
LTE Band 41 Ant 2	Front	0.179	0.151	0.341	0.049	0.33	0.52	0.23
	Back	0.500	0.281	0.341	0.049	0.78	0.84	0.55
LTE Band 42 Part27Q Ant 3	Front	0.105	0.151	0.341	0.049	0.26	0.45	0.15
	Back	0.185	0.281	0.341	0.049	0.47	0.53	0.23

FR1 Band	Exposure Position	1	2	3	4	1+2	1+3	1+4
		FR1	WLAN 2.4GHz Ant 7	WLAN5GHz Ant 7	Bluetooth Ant 7	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n5 Ant 0	Front	0.341	0.151	0.341	0.049	0.49	0.68	0.39
	Back	0.333	0.281	0.341	0.049	0.61	0.67	0.38
FR1 n66 Ant 0	Front	0.450	0.151	0.341	0.049	0.60	0.79	0.50
	Back	0.469	0.281	0.341	0.049	0.75	0.81	0.52
FR1 n2 Ant 0	Front	0.154	0.151	0.341	0.049	0.31	0.50	0.20
	Back	0.322	0.281	0.341	0.049	0.60	0.66	0.37
FR1 n7 Ant 2	Front	0.337	0.281	0.341	0.049	0.62	0.68	0.39
	Back	0.659	0.281	0.341	0.049	0.94	1.00	0.71
FR1 n41-HPUE Ant 2	Front	0.320	0.281	0.341	0.049	0.60	0.66	0.37
	Back	0.640	0.281	0.341	0.049	0.92	0.98	0.69
FR1 n41 Ant 1	Front	0.001	0.281	0.341	0.049	0.28	0.34	0.05
	Back	0.023	0.281	0.341	0.049	0.30	0.36	0.07
FR1 n41 Ant 4	Front	0.365	0.281	0.341	0.049	0.65	0.71	0.41
	Back	0.194	0.281	0.341	0.049	0.48	0.54	0.24
FR1 n41 Ant 6	Front	0.033	0.281	0.341	0.049	0.31	0.37	0.08
	Back	0.213	0.281	0.341	0.049	0.49	0.55	0.26
FR1 n77 Part27O Ant 3	Front	0.089	0.281	0.341	0.049	0.37	0.43	0.14
	Back	0.476	0.281	0.341	0.049	0.76	0.82	0.53
FR1 n77 Part27Q Ant 3	Front	0.120	0.281	0.341	0.049	0.40	0.46	0.17
	Back	0.525	0.281	0.341	0.049	0.81	0.87	0.57
FR1 n77 Part27O Ant 1	Front	0.190	0.281	0.341	0.049	0.47	0.53	0.24
	Back	0.294	0.281	0.341	0.049	0.58	0.64	0.34



FR1 n77 Part27Q Ant 1	Front	0.120	0.281	0.341	0.049	0.40	0.46	0.17
	Back	0.202	0.281	0.341	0.049	0.48	0.54	0.25
FR1 n77 Part27O Ant 4	Front	0.114	0.281	0.341	0.049	0.40	0.46	0.16
	Back	0.163	0.281	0.341	0.049	0.44	0.50	0.21
FR1 n77 Part27Q Ant 4	Front	0.174	0.281	0.341	0.049	0.46	0.52	0.22
	Back	0.150	0.281	0.341	0.049	0.43	0.49	0.20
FR1 n77 Part27O Ant 5	Front	0.077	0.281	0.341	0.049	0.36	0.42	0.13
	Back	0.143	0.281	0.341	0.049	0.42	0.48	0.19
FR1 n77 Part27Q Ant 5	Front	0.069	0.281	0.341	0.049	0.35	0.41	0.12
	Back	0.166	0.281	0.341	0.049	0.45	0.51	0.22
FR1 n78_HPUE_Part27O Ant 3	Front	0.087	0.281	0.341	0.049	0.37	0.43	0.14
	Back	0.459	0.281	0.341	0.049	0.74	0.80	0.51
FR1 n78_HPUE_Part27Q Ant 3	Front	0.068	0.281	0.341	0.049	0.35	0.41	0.12
	Back	0.373	0.281	0.341	0.049	0.65	0.71	0.42
FR1 n78 _Part27O Ant 1	Front	0.376	0.281	0.341	0.049	0.66	0.72	0.43
	Back	0.538	0.281	0.341	0.049	0.82	0.88	0.59
FR1 n78 _Part27Q Ant 1	Front	0.176	0.281	0.341	0.049	0.46	0.52	0.23
	Back	0.301	0.281	0.341	0.049	0.58	0.64	0.35
FR1 n78 _Part27O Ant 4	Front	0.211	0.281	0.341	0.049	0.49	0.55	0.26
	Back	0.304	0.281	0.341	0.049	0.59	0.65	0.35
FR1 n78 _Part27Q Ant 4	Front	0.223	0.281	0.341	0.049	0.50	0.56	0.27
	Back	0.200	0.281	0.341	0.049	0.48	0.54	0.25
FR1 n78 _Part27O Ant 5	Front	0.083	0.281	0.341	0.049	0.36	0.42	0.13
	Back	0.184	0.281	0.341	0.049	0.47	0.53	0.23
FR1 n78 _Part27Q Ant 5	Front	0.096	0.281	0.341	0.049	0.38	0.44	0.15
	Back	0.216	0.281	0.341	0.049	0.50	0.56	0.27

16.4 Product specific 10g SAR Exposure Conditions

WWAN Band	Exposure Position	1	2	1+2
		WWAN	WLAN5GHz Ant 7	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
GSM1900 Ant 0	Back	1.082	0.831	1.91
	Bottom side	2.905	0.831	3.74
WCDMA II Ant 0	Back	2.555	0.831	3.39
	Bottom side	3.100	0.831	3.93
WCDMA IV Ant 0	Front		0.831	0.83
	Bottom side	2.515	0.831	3.35
LTE Band 2 Ant 0	Back	2.451	0.831	3.28
	Bottom side	3.100	0.831	3.93
LTE Band 4 Ant 0	Bottom side	2.577	0.831	3.41
LTE Band 7 Ant 2	Back	2.850	0.831	3.68
	Top side	3.099	0.831	3.93
LTE Band 41 Ant 2	Top side	3.139	0.831	3.97

FR1 Band	Exposure Position	1	2	1+2
		FR1	WLAN5GHz Ant 7	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
FR1 n2 Ant 0	Front	1.388	0.831	2.22
	Back	2.461	0.831	3.29
	Bottom side	3.091	0.831	3.92
FR1 n7 Ant 2	Front		0.831	0.83
	Back	2.974	0.831	3.81
	Left side		0.831	0.83
	Top side	2.697	0.831	3.53
FR1 n41-HPUE Ant 2	Front	2.206	0.831	3.04
	Back	2.832	0.831	3.66
	Left side	1.947	0.831	2.78
	Top side	3.084	0.831	3.92
FR1 n78_HPUE_Part27O Ant3	Back	1.291	0.831	2.12
	Left side	2.730	0.831	3.56
FR1 n78_HPUE_Part27Q Ant3	Back	1.014	0.831	1.85
	Left side	2.954	0.831	3.79
FR1 n66 Ant 0	Bottom side	2.202	0.831	3.03

Test Engineer : Martin Li, Varus Wang, Light Wang



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.

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 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [13] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.

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