



Part270 n78 Ant 6								
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		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.41		23.2	0.0
100	PI/2 BPSK	1	137		22.30			
100	PI/2 BPSK	1	271		22.41			
100	PI/2 BPSK	135	0		22.41		23.2	0.0
100	PI/2 BPSK	135	69		22.41		23.2	0.0
100	PI/2 BPSK	135	138		22.40		23.2	0.0
100	PI/2 BPSK	270	0		22.43			
100	QPSK	1	1		22.45		23.2	0.0
100	QPSK	1	137		22.32			
100	QPSK	1	271		22.32			
100	QPSK	135	0		22.33		23.2	0.0
100	QPSK	135	69		22.41		23.2	0.0
100	QPSK	135	138		22.33		23.2	0.0
100	QPSK	270	0		22.36			
100	16QAM	1	1		22.30		23.2	0.0
100	64QAM	1	1		21.24		22.5	0.7
100	256QAM	1	1		19.73		20.5	2.7
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.55	21.62	21.50	23.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.64	21.70	21.58	23.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.60	21.63	21.54	23.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.61	21.68	21.53	23.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.59	21.71	21.51	23.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.57	21.70	21.52	23.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.57	21.67	21.56	23.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.64	21.64	21.49	23.2	0.0



Part27Q n78 Ant 6								
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		23.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.10		23.2	0.0
100	PI/2 BPSK	1	137		22.10			
100	PI/2 BPSK	1	271		21.94			
100	PI/2 BPSK	135	0		21.93		23.2	0.0
100	PI/2 BPSK	135	69		22.07		23.2	0.0
100	PI/2 BPSK	135	138		21.90		23.2	0.0
100	PI/2 BPSK	270	0		21.98			
100	QPSK	1	1		22.15		23.2	0.0
100	QPSK	1	137		22.00			
100	QPSK	1	271		21.92			
100	QPSK	135	0		21.98		23.2	0.0
100	QPSK	135	69		22.10		23.2	0.0
100	QPSK	135	138		22.00		23.2	0.0
100	QPSK	270	0		21.97			
100	16QAM	1	1		21.85		23.2	0.0
100	64QAM	1	1		21.42		22.5	0.7
100	256QAM	1	1		20.02		20.5	2.7
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.46	21.60	21.46	23.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.55	21.58	21.39	23.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.46	21.54	21.48	23.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.55	21.61	21.46	23.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.50	21.58	21.42	23.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.52	21.50	21.40	23.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.52	21.55	21.39	23.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.47	21.52	21.47	23.2	0.0



Reduced Power Mode for DSI 2

Ant 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	23.23	23.30	23.16		
20	PI/2 BPSK	1	53	23.23	23.32	23.17	23.5	0.5
20	PI/2 BPSK	1	104	23.16	23.21	23.19		
20	PI/2 BPSK	50	0	22.79	22.85	22.80		
20	PI/2 BPSK	50	28	23.25	23.31	23.27	23.5	0.5
20	PI/2 BPSK	50	56	22.61	22.73	22.66		
20	PI/2 BPSK	100	0	22.77	22.83	22.74		
20	QPSK	1	1	23.33	23.37	23.27	24.0	0.0
20	QPSK	1	53	23.29	23.31	23.27		
20	QPSK	1	104	23.07	23.17	23.04		
20	QPSK	50	0	22.29	22.32	22.27	23.0	1.0
20	QPSK	50	28	23.31	23.34	23.31		
20	QPSK	50	56	22.21	22.28	22.14		
20	QPSK	100	0	22.20	22.36	22.26	23.0	1.0
20	16QAM	1	1	22.25	22.39	22.30		
20	64QAM	1	1	20.79	20.91	20.81		
20	256QAM	1	1	18.62	18.74	18.63	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	1	23.25	23.32	23.15	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.29	23.31	23.23	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	1	23.30	23.28	23.16	24.0	0.0



n71 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				134600	136100	137600	24.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.03	23.12	22.96		
20	PI/2 BPSK	1	53	23.16	23.19	23.02	23.5	0.5
20	PI/2 BPSK	1	104	22.93	23.08	22.94		
20	PI/2 BPSK	50	0	22.65	22.67	22.50		
20	PI/2 BPSK	50	28	23.11	23.18	23.10	23.5	0.5
20	PI/2 BPSK	50	56	22.52	22.65	22.58		
20	PI/2 BPSK	100	0	22.54	22.63	22.58		
20	QPSK	1	1	23.23	23.30	23.17	24.0	0.0
20	QPSK	1	53	23.04	23.14	23.09		
20	QPSK	1	104	22.90	23.01	22.92		
20	QPSK	50	0	22.17	22.22	22.09	23.0	1.0
20	QPSK	50	28	23.16	23.22	23.16	24.0	0.0
20	QPSK	50	56	22.02	22.11	21.97	23.0	1.0
20	QPSK	100	0	22.12	22.27	22.18		
20	16QAM	1	1	21.87	22.03	21.96	23.0	1.0
20	64QAM	1	1	20.31	20.46	20.33	21.5	2.5
20	256QAM	1	1	18.26	18.28	18.11	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.10	23.26	23.12	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.11	23.27	23.12	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.17	23.16	23.14	24.0	0.0



n41 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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.78	21.77	21.73	23.0	0.0
100	PI/2 BPSK	1	137	21.69	21.72	21.62		
100	PI/2 BPSK	1	271	21.56	21.61	21.41		
100	PI/2 BPSK	135	0	20.96	21.14	21.10	22.5	0.5
100	PI/2 BPSK	135	69	21.40	21.48	21.28	23.0	0.0
100	PI/2 BPSK	135	138	20.77	20.83	20.62	22.5	0.5
100	PI/2 BPSK	270	0	20.92	20.95	20.76		
100	QPSK	1	1	21.79	21.85	21.76	23.0	0.0
100	QPSK	1	137	21.69	21.79	21.68		
100	QPSK	1	271	21.56	21.65	21.62		
100	QPSK	135	0	20.37	20.59	20.52	22.0	1.0
100	QPSK	135	69	21.54	21.57	21.49	23.0	0.0
100	QPSK	135	138	20.27	20.42	20.33	22.0	1.0
100	QPSK	270	0	20.35	20.49	20.44		
100	16QAM	1	1	20.61	20.81	20.79	22.0	1.0
100	64QAM	1	1	19.15	19.29	19.07	20.5	2.5
100	256QAM	1	1	16.78	16.94	16.73	18.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.66	21.69	21.55	23.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.61	21.72	21.59	23.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.62	21.79	21.63	23.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	21.68	21.65	21.56	23.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.69	21.63	21.74	23.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.66	21.83	21.58	23.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.66	21.84	21.68	23.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.68	21.80	21.67	23.0	0.0



Part27O n77 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				650000	656000	662000	20.3	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.18	19.32	19.17		
100	PI/2 BPSK	1	137	19.20	19.36	19.13	20.3	0.0
100	PI/2 BPSK	1	271	19.15	19.30	19.15		
100	PI/2 BPSK	135	0	19.17	19.33	19.17		
100	PI/2 BPSK	135	69	19.18	19.27	19.09	20.3	0.0
100	PI/2 BPSK	135	138	19.20	19.29	19.09		
100	PI/2 BPSK	270	0	19.23	19.33	19.16		
100	QPSK	1	1	19.27	19.41	19.23	20.3	0.0
100	QPSK	1	137	19.20	19.31	19.15		
100	QPSK	1	271	19.13	19.37	19.18		
100	QPSK	135	0	19.13	19.28	19.10	20.3	0.0
100	QPSK	135	69	19.16	19.37	19.10		
100	QPSK	135	138	19.18	19.32	19.09		
100	QPSK	270	0	19.20	19.28	19.20	20.3	0.0
100	16QAM	1	1	19.19	19.31	19.17		
100	64QAM	1	1	19.17	19.27	19.16		
100	256QAM	1	1	18.39	18.52	18.41	19.5	0.8
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.70	18.83	18.58	20.3	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.78	18.87	18.57	20.3	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.76	18.89	18.51	20.3	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.76	18.78	18.54	20.3	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.72	18.88	18.56	20.3	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.74	18.78	18.60	20.3	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.72	18.77	18.52	20.3	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.69	18.86	18.52	20.3	0.0



Part27Q n77 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					633334		20.3	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.65		20.3	0.0
100	PI/2 BPSK	1	137		18.69			
100	PI/2 BPSK	1	271		18.52			
100	PI/2 BPSK	135	0		18.54		20.3	0.0
100	PI/2 BPSK	135	69		18.67		20.3	0.0
100	PI/2 BPSK	135	138		18.57		20.3	0.0
100	PI/2 BPSK	270	0		18.68			
100	QPSK	1	1		18.75		20.3	0.0
100	QPSK	1	137		18.62			
100	QPSK	1	271		18.71			
100	QPSK	135	0		18.64		20.3	0.0
100	QPSK	135	69		18.72		20.3	0.0
100	QPSK	135	138		18.64		20.3	0.0
100	QPSK	270	0		18.69			
100	16QAM	1	1		18.50		20.3	0.0
100	64QAM	1	1		18.53		20.3	0.0
100	256QAM	1	1		18.27		19.5	0.8
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.50	18.48	18.38	20.3	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.44	18.42	18.37	20.3	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.45	18.47	18.38	20.3	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.40	18.47	18.38	20.3	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.40	18.47	18.41	20.3	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.47	18.43	18.38	20.3	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.48	18.46	18.43	20.3	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.40	18.47	18.45	20.3	0.0



Part270 n78 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				650000	650000	650000	20.3	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.28		20.3	0.0
100	PI/2 BPSK	1	137		19.29			
100	PI/2 BPSK	1	271		19.20			
100	PI/2 BPSK	135	0		19.19		20.3	0.0
100	PI/2 BPSK	135	69		19.13		20.3	0.0
100	PI/2 BPSK	135	138		19.17		20.3	0.0
100	PI/2 BPSK	270	0		19.27			
100	QPSK	1	1		19.35		20.3	0.0
100	QPSK	1	137		19.18			
100	QPSK	1	271		19.24			
100	QPSK	135	0		19.20		20.3	0.0
100	QPSK	135	69		19.28		20.3	0.0
100	QPSK	135	138		19.17		20.3	0.0
100	QPSK	270	0		19.15			
100	16QAM	1	1		19.23		20.3	0.0
100	64QAM	1	1		19.17		20.3	0.0
100	256QAM	1	1		18.35		19.5	0.8
Channel				649668	650000	650334	20.3	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	18.56	18.69	18.54	20.3	0.0
Channel				649334	650000	650668	20.3	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.57	18.80	18.47	20.3	0.0
Channel				649000	650000	651000	20.3	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.57	18.73	18.45	20.3	0.0
Channel				648668	650000	651334	20.3	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.67	18.70	18.51	20.3	0.0
Channel				648334	650000	651668	20.3	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.65	18.75	18.48	20.3	0.0
Channel				648000	650000	652000	20.3	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	18.60	18.76	18.51	20.3	0.0
Channel				647668	650000	652334	20.3	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.65	18.70	18.47	20.3	0.0
Channel				647334	650000	652668	20.3	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.64	18.75	18.46	20.3	0.0



Part27Q n78 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					633334		20.3	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.58		20.3	0.0
100	PI/2 BPSK	1	137		18.57			
100	PI/2 BPSK	1	271		18.43			
100	PI/2 BPSK	135	0		18.45		20.3	0.0
100	PI/2 BPSK	135	69		18.54		20.3	0.0
100	PI/2 BPSK	135	138		18.49		20.3	0.0
100	PI/2 BPSK	270	0		18.57			
100	QPSK	1	1		18.69		20.3	0.0
100	QPSK	1	137		18.56			
100	QPSK	1	271		18.66			
100	QPSK	135	0		18.53		20.3	0.0
100	QPSK	135	69		18.66		20.3	0.0
100	QPSK	135	138		18.51		20.3	0.0
100	QPSK	270	0		18.57			
100	16QAM	1	1		18.36		20.3	0.0
100	64QAM	1	1		18.44		20.3	0.0
100	256QAM	1	1		18.17		19.5	0.8
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.44	18.41	18.34	20.3	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.37	18.44	18.37	20.3	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.45	18.33	18.41	20.3	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.41	18.42	18.32	20.3	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.46	18.37	18.39	20.3	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.41	18.38	18.36	20.3	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.36	18.44	18.44	20.3	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.36	18.46	18.39	20.3	0.0



Ant 1

n2 Ant 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				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	22.93	22.98	22.92	24.0	0.0
20	PI/2 BPSK	1	53	22.91	22.94	22.90		
20	PI/2 BPSK	1	104	22.81	22.89	22.83		
20	PI/2 BPSK	50	0	22.41	22.43	22.27	23.5	0.5
20	PI/2 BPSK	50	28	22.88	22.96	22.88	24.0	0.0
20	PI/2 BPSK	50	56	22.38	22.44	22.42	23.5	0.5
20	PI/2 BPSK	100	0	22.35	22.43	22.35		
20	QPSK	1	1	22.83	23.00	22.92	24.0	0.0
20	QPSK	1	53	22.85	22.96	22.87		
20	QPSK	1	104	22.76	22.85	22.80		
20	QPSK	50	0	21.89	22.00	21.97	23.0	1.0
20	QPSK	50	28	22.76	22.93	22.79	24.0	0.0
20	QPSK	50	56	21.79	21.96	21.83	23.0	1.0
20	QPSK	100	0	21.91	21.98	21.81		
20	16QAM	1	1	21.90	22.00	21.97	23.0	1.0
20	64QAM	1	1	20.42	20.56	20.46	21.5	2.5
20	256QAM	1	1	18.34	18.41	18.32	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.72	22.88	22.85	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.69	22.89	22.79	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.80	22.92	22.87	24.0	0.0



n66 Ant 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				346000	349000	352000	24.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.08	23.21	23.13		
40	PI/2 BPSK	1	108	23.02	23.15	23.05	23.5	0.5
40	PI/2 BPSK	1	214	23.01	23.08	23.03		
40	PI/2 BPSK	108	0	22.54	22.61	22.54		
40	PI/2 BPSK	108	54	23.05	23.18	23.04	23.5	0.5
40	PI/2 BPSK	108	108	22.63	22.66	22.54		
40	PI/2 BPSK	216	0	22.49	22.64	22.60		
40	QPSK	1	1	23.09	23.27	23.18	24.0	0.0
40	QPSK	1	108	23.14	23.20	23.03		
40	QPSK	1	214	23.02	23.04	22.92		
40	QPSK	108	0	22.09	22.12	22.07	23.0	1.0
40	QPSK	108	54	23.18	23.23	23.06	24.0	0.0
40	QPSK	108	108	22.00	22.15	22.08	23.0	1.0
40	QPSK	216	0	22.14	22.18	22.12		
40	16QAM	1	1	21.83	21.85	21.69		
40	64QAM	1	1	20.19	20.31	20.15	21.5	2.5
40	256QAM	1	1	18.14	18.21	18.10	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.00	23.12	23.03	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.01	23.25	23.13	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.96	23.21	23.13	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.92	23.24	23.02	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	22.97	23.22	23.05	24.0	0.0



Part270 n77 Ant 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		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.98	22.08	21.99	23.0	0.0
100	PI/2 BPSK	1	137	21.97	22.06	21.94		
100	PI/2 BPSK	1	271	21.87	21.91	21.80		
100	PI/2 BPSK	135	0	21.55	21.57	21.50	22.5	0.5
100	PI/2 BPSK	135	69	21.96	22.05	22.00	23.0	0.0
100	PI/2 BPSK	135	138	21.51	21.49	21.39	22.5	0.5
100	PI/2 BPSK	270	0	21.41	21.59	21.45		
100	QPSK	1	1	21.98	22.13	22.00	23.0	0.0
100	QPSK	1	137	21.98	22.06	21.89		
100	QPSK	1	271	21.89	21.95	21.93		
100	QPSK	135	0	20.85	21.02	20.85	22.0	1.0
100	QPSK	135	69	21.99	22.07	21.99	23.0	0.0
100	QPSK	135	138	20.82	21.02	20.93	22.0	1.0
100	QPSK	270	0	20.94	21.09	20.86		
100	16QAM	1	1	20.93	21.10	20.92	22.0	1.0
100	64QAM	1	1	19.41	19.39	19.38	20.5	2.5
100	256QAM	1	1	17.12	17.15	17.10	18.5	4.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.88	22.03	21.92	23.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.95	22.01	21.92	23.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.88	22.05	21.88	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.84	22.04	21.91	23.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.86	22.09	21.94	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.83	22.08	21.91	23.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.88	21.98	21.94	23.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.85	22.10	21.91	23.0	0.0



Part27Q n77 Ant 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					633334		23.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.14		23.0	0.0
100	PI/2 BPSK	1	137		22.05			
100	PI/2 BPSK	1	271		21.94			
100	PI/2 BPSK	135	0		21.57		22.5	0.5
100	PI/2 BPSK	135	69		21.93		23.0	0.0
100	PI/2 BPSK	135	138		21.56		22.5	0.5
100	PI/2 BPSK	270	0		21.64			
100	QPSK	1	1		22.18		23.0	0.0
100	QPSK	1	137		22.04			
100	QPSK	1	271		21.95			
100	QPSK	135	0		21.07		22.0	1.0
100	QPSK	135	69		22.04		23.0	0.0
100	QPSK	135	138		21.05		22.0	1.0
100	QPSK	270	0		21.14			
100	16QAM	1	1		21.01		22.0	1.0
100	64QAM	1	1		19.65		20.5	2.5
100	256QAM	1	1		17.16		18.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.09	22.05	21.84	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.03	22.12	21.95	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.08	22.11	21.91	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.06	22.13	21.86	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.98	22.10	21.92	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.04	22.09	21.86	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.05	22.03	21.84	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.99	22.11	21.86	23.0	0.0



Part270 n78 Ant 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	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.01		23.0	0.0
100	PI/2 BPSK	1	137		22.02			
100	PI/2 BPSK	1	271		21.99			
100	PI/2 BPSK	135	0		21.42		22.5	0.5
100	PI/2 BPSK	135	69		22.00		23.0	0.0
100	PI/2 BPSK	135	138		21.49		22.5	0.5
100	PI/2 BPSK	270	0		21.49			
100	QPSK	1	1		22.09		23.0	0.0
100	QPSK	1	137		22.00			
100	QPSK	1	271		21.87			
100	QPSK	135	0		20.90		22.0	1.0
100	QPSK	135	69		21.91		23.0	0.0
100	QPSK	135	138		20.90		22.0	1.0
100	QPSK	270	0		20.89			
100	16QAM	1	1		21.02		22.0	1.0
100	64QAM	1	1		19.57		20.5	2.5
100	256QAM	1	1		17.10		18.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.95	21.98	21.90	23.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.89	22.05	21.97	23.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.90	22.00	21.92	23.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.90	21.97	21.88	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.96	21.98	21.93	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.92	21.96	21.89	23.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.97	21.95	21.93	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.98	21.97	21.92	23.0	0.0



Part27Q n78 Ant 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					633334		23.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		21.91		23.0	0.0
100	PI/2 BPSK	1	137		21.87			
100	PI/2 BPSK	1	271		21.92			
100	PI/2 BPSK	135	0		21.40		22.5	0.5
100	PI/2 BPSK	135	69		21.93		23.0	0.0
100	PI/2 BPSK	135	138		21.44		22.5	0.5
100	PI/2 BPSK	270	0		21.43			
100	QPSK	1	1		22.02		23.0	0.0
100	QPSK	1	137		21.85			
100	QPSK	1	271		21.86			
100	QPSK	135	0		20.87		22.0	1.0
100	QPSK	135	69		21.99		23.0	0.0
100	QPSK	135	138		20.84		22.0	1.0
100	QPSK	270	0		20.98			
100	16QAM	1	1		20.89		22.0	1.0
100	64QAM	1	1		19.44		20.5	2.5
100	256QAM	1	1		17.03		18.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.85	21.97	21.91	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.85	21.89	21.90	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.87	21.93	21.86	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.85	21.98	21.88	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.89	21.93	21.87	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.88	21.92	21.80	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.92	21.97	21.85	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.88	21.95	21.82	23.0	0.0



Ant 2

n7 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				504000	507000	510000	24.0	0.0
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.35	23.44	23.32		
40	PI/2 BPSK	1	108	23.34	23.41	23.34	23.5	0.5
40	PI/2 BPSK	1	214	23.30	23.34	23.29		
40	PI/2 BPSK	108	0	22.97	22.99	22.88		
40	PI/2 BPSK	108	54	23.27	23.41	23.29	23.5	0.5
40	PI/2 BPSK	108	108	23.01	23.05	22.89		
40	PI/2 BPSK	216	0	22.95	22.99	22.96		
40	QPSK	1	1	23.41	23.46	23.36	24.0	0.0
40	QPSK	1	108	23.26	23.43	23.27		
40	QPSK	1	214	23.23	23.38	23.36		
40	QPSK	108	0	22.51	22.53	22.41	23.0	1.0
40	QPSK	108	54	23.29	23.39	23.22		
40	QPSK	108	108	22.47	22.61	22.46		
40	QPSK	216	0	22.41	22.47	22.33	23.0	1.0
40	16QAM	1	1	22.18	22.26	22.14		
40	64QAM	1	1	20.61	20.74	20.57		
40	256QAM	1	1	18.74	18.80	18.68	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.32	23.35	23.34	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.29	23.44	23.31	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.30	23.43	23.26	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.25	23.43	23.32	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.36	23.36	23.23	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.31	23.41	23.29	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		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	23.15	23.28	23.15	24.0	0.0
40	PI/2 BPSK	1	53	23.17	23.23	23.10		
40	PI/2 BPSK	1	104	23.08	23.18	23.04		
40	PI/2 BPSK	50	0	22.68	22.75	22.70	23.5	0.5
40	PI/2 BPSK	50	28	23.05	23.19	23.11	24.0	0.0
40	PI/2 BPSK	50	56	22.68	22.74	22.58	23.5	0.5
40	PI/2 BPSK	100	0	22.66	22.81	22.64		
40	QPSK	1	1	23.17	23.30	23.21	24.0	0.0
40	QPSK	1	53	23.13	23.20	23.07		
40	QPSK	1	104	23.08	23.24	23.15		
40	QPSK	50	0	22.09	22.25	22.15	23.0	1.0
40	QPSK	50	28	23.24	23.27	23.23	24.0	0.0
40	QPSK	50	56	22.17	22.28	22.15	23.0	1.0
40	QPSK	100	0	22.18	22.30	22.21		
40	16QAM	1	1	22.00	22.12	22.03	23.0	1.0
40	64QAM	1	1	20.65	20.69	20.61	21.5	2.5
40	256QAM	1	1	18.58	18.64	18.59	19.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	23.08	23.16	23.06	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	23.05	23.20	23.12	24.0	0.0



n41 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				509202	518598	528000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.23	23.29	23.12		
100	PI/2 BPSK	1	137	23.01	23.18	23.03	23.5	0.5
100	PI/2 BPSK	1	271	23.10	23.13	23.06		
100	PI/2 BPSK	135	0	22.76	22.78	22.69		
100	PI/2 BPSK	135	69	23.07	23.19	23.15	23.5	0.5
100	PI/2 BPSK	135	138	22.49	22.58	22.42		
100	PI/2 BPSK	270	0	22.67	22.73	22.59		
100	QPSK	1	1	23.30	23.32	23.17	24.0	0.0
100	QPSK	1	137	22.90	23.07	23.03		
100	QPSK	1	271	22.96	23.11	22.94		
100	QPSK	135	0	22.10	22.24	22.20	23.0	1.0
100	QPSK	135	69	23.07	23.22	23.12		
100	QPSK	135	138	21.95	22.08	22.05		
100	QPSK	270	0	22.13	22.22	22.19	23.0	1.0
100	16QAM	1	1	22.07	22.17	22.05		
100	64QAM	1	1	20.72	20.75	20.67		
100	256QAM	1	1	18.57	18.72	18.67	19.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.14	23.17	23.07	24.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.22	23.25	23.11	24.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.20	23.28	23.03	24.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	23.24	23.29	23.01	24.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.16	23.17	23.12	24.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.22	23.26	23.10	24.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.15	23.21	23.06	24.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.24	23.22	23.06	24.0	0.0



Ant 3

n41 Ant 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	23.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.06	22.12	22.04		
100	PI/2 BPSK	1	137	21.87	22.08	22.00	22.5	0.5
100	PI/2 BPSK	1	271	21.91	22.00	21.87		
100	PI/2 BPSK	135	0	21.37	21.53	21.49		
100	PI/2 BPSK	135	69	22.04	22.05	21.96	22.5	0.5
100	PI/2 BPSK	135	138	21.43	21.45	21.42		
100	PI/2 BPSK	270	0	21.53	21.53	21.49		
100	QPSK	1	1	22.12	22.18	22.07	23.0	0.0
100	QPSK	1	137	21.87	22.06	22.07		
100	QPSK	1	271	21.88	22.03	21.96		
100	QPSK	135	0	21.03	21.07	20.94	22.0	1.0
100	QPSK	135	69	22.08	22.12	22.07		
100	QPSK	135	138	20.95	20.96	20.84		
100	QPSK	270	0	20.88	21.04	20.92	22.0	1.0
100	16QAM	1	1	20.99	21.17	21.16		
100	64QAM	1	1	19.65	19.65	19.62		
100	256QAM	1	1	17.30	17.34	17.22	18.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.99	21.99	21.94	23.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.94	22.03	21.98	23.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.10	22.09	21.96	23.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	21.91	22.13	22.03	23.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.12	22.01	22.02	23.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.97	22.00	21.88	23.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.00	22.06	21.88	23.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.11	22.04	22.03	23.0	0.0



Ant 4

n41 Ant 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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.70	22.79	22.60	24.0	0.0
100	PI/2 BPSK	1	137	22.60	22.72	22.60		
100	PI/2 BPSK	1	271	22.51	22.67	22.52		
100	PI/2 BPSK	135	0	22.04	22.24	22.09	23.5	0.5
100	PI/2 BPSK	135	69	22.68	22.66	22.57	24.0	0.0
100	PI/2 BPSK	135	138	22.09	22.11	22.02	23.5	0.5
100	PI/2 BPSK	270	0	22.07	22.18	22.13		
100	QPSK	1	1	22.77	22.85	22.81	24.0	0.0
100	QPSK	1	137	22.71	22.77	22.73		
100	QPSK	1	271	22.63	22.73	22.60		
100	QPSK	135	0	21.58	21.71	21.63	23.0	1.0
100	QPSK	135	69	22.60	22.69	22.56	24.0	0.0
100	QPSK	135	138	21.61	21.66	21.65	23.0	1.0
100	QPSK	270	0	21.51	21.72	21.58		
100	16QAM	1	1	21.89	21.88	21.77	23.0	1.0
100	64QAM	1	1	20.23	20.34	20.35	21.5	2.5
100	256QAM	1	1	17.93	18.06	18.06	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.73	22.69	22.62	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.63	22.78	22.80	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.74	22.77	22.77	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.68	22.81	22.69	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.66	22.70	22.70	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.68	22.69	22.72	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.56	22.67	22.62	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.57	22.76	22.61	24.0	0.0



Ant 5

Part270 n77 PC2&PC3 Ant 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	22.2	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.37	21.29	21.22	22.2	0.0
100	PI/2 BPSK	1	137	21.36	21.31	21.21		
100	PI/2 BPSK	1	271	21.28	21.35	21.21		
100	PI/2 BPSK	135	0	21.35	21.31	21.31	22.2	0.0
100	PI/2 BPSK	135	69	21.32	21.36	21.21	22.2	0.0
100	PI/2 BPSK	135	138	21.32	21.31	21.27	22.2	0.0
100	PI/2 BPSK	270	0	21.28	21.34	21.30		
100	QPSK	1	1	21.41	21.43	21.35	22.2	0.0
100	QPSK	1	137	21.30	21.39	21.21		
100	QPSK	1	271	21.32	21.35	21.29		
100	QPSK	135	0	21.30	21.34	21.31	22.2	0.0
100	QPSK	135	69	21.33	21.38	21.25	22.2	0.0
100	QPSK	135	138	21.35	21.37	21.29	22.2	0.0
100	QPSK	270	0	21.31	21.35	21.28		
100	16QAM	1	1	21.29	21.34	21.30	22.2	0.0
100	64QAM	1	1	21.26	21.27	21.23	22.2	0.0
100	256QAM	1	1	21.28	21.29	21.28	22.2	0.0
Channel				649668	656000	662334	22.2	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.27	21.29	21.24	22.2	0.0
Channel				649334	656000	662668	22.2	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.33	21.30	21.27	22.2	0.0
Channel				649000	656000	663000	22.2	0.0
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.35	21.31	21.26	22.2	0.0
Channel				648668	656000	663334	22.2	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.34	21.31	21.21	22.2	0.0
Channel				648334	656000	663668	22.2	0.0
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.38	21.38	21.26	22.2	0.0
Channel				648000	656000	664000	22.2	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.32	21.32	21.28	22.2	0.0
Channel				647668	656000	664334	22.2	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.30	21.33	21.27	22.2	0.0
Channel				647334	656000	664668	22.2	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.27	21.37	21.27	22.2	0.0



Part27Q n77 PC2&PC3 Ant 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					633334			
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		21.19		22.2	0.0
100	PI/2 BPSK	1	137		21.23			
100	PI/2 BPSK	1	271		21.23			
100	PI/2 BPSK	135	0		21.25		22.2	0.0
100	PI/2 BPSK	135	69		21.26		22.2	0.0
100	PI/2 BPSK	135	138		21.22		22.2	0.0
100	PI/2 BPSK	270	0		21.26			
100	QPSK	1	1		21.32		22.2	0.0
100	QPSK	1	137		21.29			
100	QPSK	1	271		21.26			
100	QPSK	135	0		21.23		22.2	0.0
100	QPSK	135	69		21.28		22.2	0.0
100	QPSK	135	138		21.24		22.2	0.0
100	QPSK	270	0		21.25			
100	16QAM	1	1		21.21		22.2	0.0
100	64QAM	1	1		21.24		22.2	0.0
100	256QAM	1	1		21.16		22.2	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.23	21.23	21.10	22.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.22	21.18	21.10	22.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.15	21.25	21.20	22.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.14	21.20	21.21	22.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.15	21.26	21.20	22.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.21	21.23	21.15	22.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.20	21.19	21.12	22.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.19	21.22	21.19	22.2	0.0



Part270 n78 PC2&PC3 Ant 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	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		21.21		22.2	0.0
100	PI/2 BPSK	1	137		21.20			
100	PI/2 BPSK	1	271		21.29			
100	PI/2 BPSK	135	0		21.23		22.2	0.0
100	PI/2 BPSK	135	69		21.26		22.2	0.0
100	PI/2 BPSK	135	138		21.18		22.2	0.0
100	PI/2 BPSK	270	0		21.21			
100	QPSK	1	1		21.37		22.2	0.0
100	QPSK	1	137		21.31			
100	QPSK	1	271		21.23			
100	QPSK	135	0		21.25		22.2	0.0
100	QPSK	135	69		21.31		22.2	0.0
100	QPSK	135	138		21.26		22.2	0.0
100	QPSK	270	0		21.25			
100	16QAM	1	1		21.23		22.2	0.0
100	64QAM	1	1		21.22		22.2	0.0
100	256QAM	1	1		21.17		22.2	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.12	21.13	21.04	22.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.18	21.20	21.07	22.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.18	21.14	21.03	22.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.12	21.08	20.97	22.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.11	21.10	21.00	22.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.08	21.08	21.07	22.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.18	21.13	20.97	22.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.09	21.09	21.06	22.2	0.0



Part27Q n78 PC2&PC3 Ant 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					633334		22.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		21.09		22.2	0.0
100	PI/2 BPSK	1	137		21.12			
100	PI/2 BPSK	1	271		21.19			
100	PI/2 BPSK	135	0		21.21		22.2	0.0
100	PI/2 BPSK	135	69		21.18		22.2	0.0
100	PI/2 BPSK	135	138		21.18		22.2	0.0
100	PI/2 BPSK	270	0		21.16			
100	QPSK	1	1		21.28		22.2	0.0
100	QPSK	1	137		21.27			
100	QPSK	1	271		21.17			
100	QPSK	135	0		21.13		22.2	0.0
100	QPSK	135	69		21.15		22.2	0.0
100	QPSK	135	138		21.09		22.2	0.0
100	QPSK	270	0		21.11			
100	16QAM	1	1		21.05		22.2	0.0
100	64QAM	1	1		21.02		22.2	0.0
100	256QAM	1	1		21.09		22.2	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.11	21.09	21.06	22.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.08	21.14	20.96	22.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.15	21.16	21.00	22.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.08	21.09	20.97	22.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.17	21.10	21.00	22.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.16	21.11	21.06	22.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.16	21.16	21.04	22.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.13	21.16	21.06	22.2	0.0



Ant 6

Part270 n77 Ant 6								
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		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.49	22.56	22.38	23.5	0.0
100	PI/2 BPSK	1	137	22.42	22.47	22.46		
100	PI/2 BPSK	1	271	22.45	22.52	22.42		
100	PI/2 BPSK	135	0	22.48	22.47	22.48	23.5	0.0
100	PI/2 BPSK	135	69	22.43	22.44	22.46	23.5	0.0
100	PI/2 BPSK	135	138	22.42	22.48	22.40	23.5	0.0
100	PI/2 BPSK	270	0	22.40	22.50	22.48		
100	QPSK	1	1	22.54	22.59	22.52	23.5	0.0
100	QPSK	1	137	22.46	22.53	22.43		
100	QPSK	1	271	22.45	22.47	22.38		
100	QPSK	135	0	22.47	22.49	22.43	23.5	0.0
100	QPSK	135	69	22.50	22.52	22.39	23.5	0.0
100	QPSK	135	138	22.46	22.44	22.48	23.5	0.0
100	QPSK	270	0	22.42	22.47	22.43		
100	16QAM	1	1	22.40	22.45	22.41	23.5	0.0
100	64QAM	1	1	21.78	21.84	21.79	22.5	1.0
100	256QAM	1	1	19.73	19.78	19.65	20.5	3.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.51	22.54	22.42	23.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.45	22.50	22.40	23.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.39	22.54	22.40	23.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.49	22.52	22.38	23.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.49	22.45	22.44	23.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.48	22.51	22.40	23.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.40	22.51	22.44	23.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.45	22.45	22.39	23.5	0.0



Part27Q n77 Ant 6								
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		23.5	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.20		23.5	0.0
100	PI/2 BPSK	1	137		22.22			
100	PI/2 BPSK	1	271		22.25			
100	PI/2 BPSK	135	0		22.16		23.5	0.0
100	PI/2 BPSK	135	69		22.19		23.5	0.0
100	PI/2 BPSK	135	138		22.19		23.5	0.0
100	PI/2 BPSK	270	0		22.24			
100	QPSK	1	1		22.31		23.5	0.0
100	QPSK	1	137		22.26			
100	QPSK	1	271		22.28			
100	QPSK	135	0		22.22		23.5	0.0
100	QPSK	135	69		22.27		23.5	0.0
100	QPSK	135	138		22.23		23.5	0.0
100	QPSK	270	0		22.22			
100	16QAM	1	1		22.21		23.5	0.0
100	64QAM	1	1		21.65		22.5	1.0
100	256QAM	1	1		19.61		20.5	3.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.94	22.02	21.92	23.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.96	22.03	21.96	23.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.93	22.05	21.84	23.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.92	21.97	21.89	23.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.92	21.97	21.88	23.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.90	21.95	21.95	23.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.96	21.99	21.95	23.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.98	22.05	21.90	23.5	0.0



Part27O n78 Ant 6								
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		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.50		23.5	0.0
100	PI/2 BPSK	1	137		22.44			
100	PI/2 BPSK	1	271		22.48			
100	PI/2 BPSK	135	0		22.38		23.5	0.0
100	PI/2 BPSK	135	69		22.40		23.5	0.0
100	PI/2 BPSK	135	138		22.39		23.5	0.0
100	PI/2 BPSK	270	0		22.35			
100	QPSK	1	1		22.53		23.5	0.0
100	QPSK	1	137		22.43			
100	QPSK	1	271		22.40			
100	QPSK	135	0		22.36		23.5	0.0
100	QPSK	135	69		22.42		23.5	0.0
100	QPSK	135	138		22.31		23.5	0.0
100	QPSK	270	0		22.38			
100	16QAM	1	1		22.35		23.5	0.0
100	64QAM	1	1		21.24		22.5	1.0
100	256QAM	1	1		19.73		20.5	3.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.05	22.05	21.90	23.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.07	22.06	21.86	23.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.99	22.08	21.98	23.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.97	22.06	21.87	23.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.02	22.01	21.98	23.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.06	22.09	21.87	23.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.01	21.99	21.96	23.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.99	22.02	21.96	23.5	0.0



Part27Q n78 Ant 6								
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		23.5	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.10		23.5	0.0
100	PI/2 BPSK	1	137		22.12			
100	PI/2 BPSK	1	271		22.14			
100	PI/2 BPSK	135	0		22.02		23.5	0.0
100	PI/2 BPSK	135	69		22.15		23.5	0.0
100	PI/2 BPSK	135	138		22.09		23.5	0.0
100	PI/2 BPSK	270	0		22.19			
100	QPSK	1	1		22.25		23.5	0.0
100	QPSK	1	137		22.18			
100	QPSK	1	271		22.23			
100	QPSK	135	0		22.04		23.5	0.0
100	QPSK	135	69		22.14		23.5	0.0
100	QPSK	135	138		22.08		23.5	0.0
100	QPSK	270	0		22.10			
100	16QAM	1	1		22.05		23.5	0.0
100	64QAM	1	1		21.42		22.5	1.0
100	256QAM	1	1		20.02		20.5	3.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.94	22.05	21.93	23.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.98	21.99	21.85	23.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.95	21.97	21.86	23.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.99	21.99	21.95	23.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.98	22.00	21.87	23.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.97	21.94	21.92	23.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.94	21.98	21.92	23.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.00	22.06	21.88	23.5	0.0



<WLAN Conducted Power>

General Note:

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) 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 in the initial test configuration. Additional output power measurements were not necessary.
2. 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.
3. 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).
4. 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.
5. 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.
6. 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.
7. For full RU and partial tone size output power measurement, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
8. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO and MIMO mode.
9. For WLAN SISO & MIMO(CDD) &TX Beamforming mode of 802.11ax, and WLAN SISO & TX Beamforming mode is not greater than WLAN MIMO(CDD) mode, so conducted power of WLAN SISO &Tx Beamforming mode is not required.



<2.4GHz WLAN>

2.4GHz WLAN			Default Full Power_MIMO&Body-worn Standalone Non DBS MIMO&Body-worn Standalone DBS MIMO&Body-worn Simultaneous Non DBS MIMO&Hotspot Standalone Non DBS MIMO							Head Standalone Non DBS MIMO&Hotspot Standalone DBS MIMO							Body-worn Simultaneous DBS MIMO DBS MIMO							
			MIMO_Ant 7	MIMO_Ant 8	MIMO_Ant 7+8	Note	MIMO_Ant 7	MIMO_Ant 8	MIMO_Ant 7+8	Note	MIMO_Ant 7	MIMO_Ant 8	MIMO_Ant 7+8	Note	MIMO_Ant 7	MIMO_Ant 8	MIMO_Ant 7+8	Note						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	20.40	20.50	20.80	21.00	23.61	23.80	98.28	19.00	19.50	19.30	19.50	22.27	22.50	98.28	18.50	19.00	18.60	19.00	21.77	22.00	98.28	
	6	2437	20.50	20.50	20.90	21.00	23.71	23.80		19.00	19.50	19.35	19.50	22.37	22.50		18.60	19.00	18.75	19.00	21.87	22.00		
	11	2462	20.70	21.00	20.70	21.00	23.71	24.00		19.40	19.50	19.42	19.50	22.41	22.50		18.90	19.00	18.88	19.00	21.91	22.00		
802.11g 6Mbps	1	2412	20.10	20.50	20.20	20.50	23.16	23.50	100.00	19.05	19.50	19.11	19.50	22.16	22.50	100.00	19.00	19.00	19.00	19.00	22.00	22.00	100.00	
	6	2437	20.40	20.50	20.80	21.00	23.61	23.80		19.12	19.50	19.23	19.50	22.20	22.50		19.00	19.00	19.00	19.00	22.00	22.00		
	11	2462	19.20	19.50	19.20	19.50	22.21	22.50		19.30	19.50	19.35	19.50	22.25	22.50		19.00	19.00	19.00	19.00	22.00	22.00		
802.11n-HT20 MCS0	1	2412	19.10	19.50	19.60	20.00	22.37	22.80	100.00	19.50	19.50	19.50	19.50	22.50	22.50	100.00	19.00	19.00	19.00	19.00	22.00	22.00	100.00	
	6	2437	19.10	19.50	19.50	19.50	22.31	22.50		19.50	19.50	19.50	19.50	22.50	22.50		19.00	19.00	19.00	19.00	22.00	22.00		
	11	2462	18.60	19.00	18.70	19.00	21.66	22.00		19.00	19.00	19.00	19.00	22.00	22.00		19.00	19.00	19.00	19.00	22.00	22.00		
802.11n-HT40 MCS0	3	2422	19.30	19.50	19.60	20.00	22.46	22.80	100.00	19.50	19.50	19.50	19.50	22.50	22.50	100.00	19.00	19.00	19.00	19.00	22.00	22.00	100.00	
	6	2437	18.20	18.50	18.40	18.50	21.31	21.50		18.50	18.50	18.50	18.50	21.50	21.50		18.50	18.50	18.50	18.50	21.50	21.50		
	9	2452	18.20	18.50	18.20	18.50	21.21	21.50		18.50	18.50	18.50	18.50	21.50	21.50		18.50	18.50	18.50	18.50	21.50	21.50		
802.11ac-VHT20 MCS0	1	2412	19.10	19.50	19.70	20.00	22.42	22.80	100.00	19.50	19.50	19.50	19.50	22.50	22.50	100.00	Not Required	19.00	Not Required	19.00	Not Required	22.00	22.00	100.00
	6	2437	19.10	19.50	19.60	20.00	22.37	22.80		19.50	19.50	19.50	19.50	22.50	22.50		19.00	19.00	19.00	19.00	22.00	22.00		
	11	2462	18.60	19.00	18.80	19.00	21.71	22.00		19.00	19.00	19.00	19.00	22.00	22.00		19.00	19.00	19.00	19.00	22.00	22.00		
802.11ac-VHT40 MCS0	3	2422	19.50	19.50	19.70	20.00	22.61	22.80	100.00	Not Required	19.50	Not Required	19.50	Not Required	22.50	100.00	19.00	19.00	19.00	19.00	22.00	22.00	100.00	
	6	2437	18.20	18.50	18.50	18.50	21.36	21.50		18.50	18.50	18.50	18.50	21.50	21.50		18.50	18.50	18.50	18.50	21.50	21.50		
	9	2452	18.20	18.50	18.30	18.50	21.26	21.50		18.50	18.50	18.50	18.50	21.50	21.50		18.50	18.50	18.50	18.50	21.50	21.50		
802.11ax-HE20 MCS0	1	2412	19.20	19.50	19.70	20.00	22.47	22.80	100.00	19.50	19.50	19.50	19.50	22.50	22.50	100.00	19.00	19.00	19.00	19.00	22.00	22.00	100.00	
	6	2437	19.20	19.50	19.60	20.00	22.41	22.80		19.50	19.50	19.50	19.50	22.50	22.50		19.00	19.00	19.00	19.00	22.00	22.00		
	11	2462	18.70	19.00	18.80	19.00	21.76	22.00		19.00	19.00	19.00	19.00	22.00	22.00		19.00	19.00	19.00	19.00	22.00	22.00		
802.11ax-HE40 MCS0	3	2422	19.50	19.50	19.80	20.00	22.66	22.80	100.00	19.50	19.50	19.50	19.50	22.50	22.50	100.00	19.00	19.00	19.00	19.00	22.00	22.00	100.00	
	6	2437	18.30	18.50	18.50	18.50	21.41	21.50		18.50	18.50	18.50	18.50	21.50	21.50		18.50	18.50	18.50	18.50	21.50	21.50		
	9	2452	18.30	18.50	18.30	18.50	21.31	21.50		18.50	18.50	18.50	18.50	21.50	21.50		18.50	18.50	18.50	18.50	21.50	21.50		



FCC SAR Test Report

Report No. : FA311601

2.4GHz WLAN			Head Simultaneous Non DBS MIMO							Head Simultaneous DBS MIMO							Head Standalone DBS MIMO							
Mode	Channel	Frequency (MHz)	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		Average power (dBm)
802.11b 1Mbps	1	2412	13.75	14.00	13.82	14.00	16.75	17.00	98.28	10.62	11.00	10.75	11.00	13.83	14.00	98.28	15.80	16.00	15.85	16.00	18.91	19.00	98.28	
	6	2437	13.60	14.00	13.66	14.00	16.62	17.00		10.72	11.00	10.63	11.00	13.75	14.00		15.60	16.00	15.70	16.00	18.82	19.00		
	11	2462	13.80	14.00	13.95	14.00	16.88	17.00		10.88	11.00	10.92	11.00	13.96	14.00		15.90	16.00	15.92	16.00	18.95	19.00		
802.11g 6Mbps	1	2412		14.00		14.00		17.00	100.00		11.00		11.00		14.00	100.00		16.00		16.00		19.00	100.00	
	6	2437		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
	11	2462		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
802.11n-HT20 MCS0	1	2412		14.00		14.00		17.00	100.00		11.00		11.00		14.00	100.00		16.00		16.00		19.00	100.00	
	6	2437		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
	11	2462		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
802.11n-HT40 MCS0	3	2422		14.00		14.00		17.00	100.00		11.00		11.00		14.00	100.00		16.00		16.00		19.00	100.00	
	6	2437		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
	9	2452		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
802.11ac-VHT20 MCS0	1	2412		14.00		14.00		17.00	100.00		11.00		11.00		14.00	100.00		16.00		16.00		19.00	100.00	
	6	2437	Not Required	14.00	Not Required	14.00	Not Required	17.00		Not Required	11.00	Not Required	11.00	Not Required	14.00		Not Required	16.00	Not Required	16.00	Not Required	19.00		
	11	2462		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
802.11ac-VHT40 MCS0	3	2422		14.00		14.00		17.00	100.00		11.00		11.00		14.00	100.00		16.00		16.00		19.00	100.00	
	6	2437		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
	9	2452		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
802.11ax-HE20 MCS0	1	2412		14.00		14.00		17.00	100.00		11.00		11.00		14.00	100.00		16.00		16.00		19.00	100.00	
	6	2437		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
	11	2462		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
802.11ax-HE40 MCS0	3	2422		14.00		14.00		17.00	100.00		11.00		11.00		14.00	100.00		16.00		16.00		19.00	100.00	
	6	2437		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00
	9	2452		14.00		14.00		17.00			11.00		11.00		14.00				16.00		16.00			19.00



2.4GHz WLAN			Hotspot Simultaneous Non DBS MIMO							Hotspot Simultaneous DBS MIMO							Default Full SISO Ant8&Hotspot Standalone Non DBS Ant8			Head Simultaneous DBS Ant 8&Hotspot Simultaneous Non DBS Ant 8		
			MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	SISO_Ant 8		Note	SISO_Ant 8		Note
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	17.16	17.50	17.18	17.50	20.15	20.50	98.28	14.11	14.50	14.16	14.50	17.16	17.50	98.28	20.80	21.00	98.28	18.20	18.50	98.28
	6	2437	17.22	17.50	17.25	17.50	20.26	20.50		14.23	14.50	14.25	14.50	17.22	17.50		20.90	21.00		18.30	18.50	
	11	2462	17.36	17.50	17.41	17.50	20.33	20.50		14.36	14.50	14.39	14.50	17.26	17.50		20.70	21.00		18.15	18.50	
802.11g 6Mbps	1	2412	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	20.50	100.00	Not Required	18.50	100.00
	6	2437		17.50		17.50		20.50			14.50		14.50		17.50			21.00			18.50	
	11	2462		17.50		17.50		20.50			14.50		14.50		17.50			19.50			18.50	
802.11n-HT20 MCS0	1	2412	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	20.00	100.00	Not Required	18.50	100.00
	6	2437		17.50		17.50		20.50			14.50		14.50		17.50			19.50			18.50	
	11	2462		17.50		17.50		20.50			14.50		14.50		17.50			19.00			18.50	
802.11n-HT40 MCS0	3	2422	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	20.00	100.00	Not Required	18.50	100.00
	6	2437		17.50		17.50		20.50			14.50		14.50		17.50			18.50			18.50	
	9	2452		17.50		17.50		20.50			14.50		14.50		17.50			18.50			18.50	
802.11ac-VHT20 MCS0	1	2412	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	20.00	100.00	Not Required	18.50	100.00
	6	2437		17.50		17.50		20.50			14.50		14.50		17.50			19.00			18.50	
	11	2462		17.50		17.50		20.50			14.50		14.50		17.50			19.00			18.50	
802.11ac-VHT40 MCS0	3	2422	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	20.00	100.00	Not Required	18.50	100.00
	6	2437		17.50		17.50		20.50			14.50		14.50		17.50			18.50			18.50	
	9	2452		17.50		17.50		20.50			14.50		14.50		17.50			18.50			18.50	
802.11ax-HE20 MCS0	1	2412	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	20.00	100.00	Not Required	18.50	100.00
	6	2437		17.50		17.50		20.50			14.50		14.50		17.50			20.00			18.50	
	11	2462		17.50		17.50		20.50			14.50		14.50		17.50			19.00			18.50	
802.11ax-HE40 MCS0	3	2422	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	20.00	100.00	Not Required	18.50	100.00
	6	2437		17.50		17.50		20.50			14.50		14.50		17.50			18.50			18.50	
	9	2452		17.50		17.50		20.50			14.50		14.50		17.50			18.50			18.50	



2.4GHz WLAN			Body-worn Simultaneous DBS Ant 8			Hotspot Standalone DBS Ant 8			Hotspot Simultaneous DBS Ant 8		
			SISO_Ant 8		Note	SISO_Ant 8		Note	SISO_Ant 8		Note
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	19.25	19.50	98.28	20.30	20.50	98.28	15.36	15.50	98.28
	6	2437	19.30	19.50		20.40	20.50		15.45	15.50	
	11	2462	19.15	19.50		20.22	20.50		15.39	15.50	
802.11g 6Mbps	1	2412	Not Required	19.50	100.00	Not Required	20.50	100.00	Not Required	15.50	100.00
	6	2437		19.50			20.50			15.50	
	11	2462		19.50			19.50			15.50	
802.11n-HT20 MCS0	1	2412		19.50	100.00		20.00	100.00		15.50	
	6	2437		19.50			19.50			15.50	
	11	2462		19.00			19.00			15.50	
802.11n-HT40 MCS0	3	2422		19.50	100.00		20.00	100.00		15.50	
	6	2437		18.50			18.50			15.50	
	9	2452		18.50			18.50			15.50	
802.11ac-VHT20 MCS0	1	2412	19.50	100.00	20.00	100.00	15.50				
	6	2437	19.50		20.00		15.50				
	11	2462	19.00		19.00		15.50				
802.11ac-VHT40 MCS0	3	2422	19.50	100.00	20.00	100.00	15.50				
	6	2437	18.50		18.50		15.50				
	9	2452	18.50		18.50		15.50				
802.11ax-HE20 MCS0	1	2412	19.50	100.00	20.00	100.00	15.50				
	6	2437	19.50		20.00		15.50				
	11	2462	19.00		19.00		15.50				
802.11ax-HE40 MCS0	3	2422	19.50	100.00	20.00	100.00	15.50				
	6	2437	18.50		18.50		15.50				
	9	2452	18.50		18.50		15.50				



<5.2GHz WLAN>

5.2GHz WLAN			MIMO Full power								Head Standalone DBS MIMO								Head Simultaneous Non DBS MIMO																
			Head Standalone Non DBS MIMO				Body-worn Standalone Non DBS MIMO				MIMO&Extremely Standalone Non DBS MIMO				MIMO_Ant 7				MIMO_Ant 8				MIMO_Ant 7+8				MIMO_Ant 7				MIMO_Ant 8				MIMO_Ant 7+8
Mode	Chan nel	Frequ ency (MHz)	Avera ge power (dBm)	Tune-Up Limit	Avera ge power (dBm)	Tune-Up Limit	Avera ge power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %										
802.11a 6Mbps	36	5180	18.95	19.00	18.56	19.00	21.77	22.00	99.05	Not Required	19.00	Not Required	19.00	Not Required	22.00	99.05	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required	20.50	99.05										
	40	5200	18.93	19.00	18.75	19.00	21.85	22.00			19.00		19.00		22.00			17.50		17.50		20.50													
	44	5220	19.14	19.50	19.26	19.50	22.21	22.50			19.00		19.00		22.50			17.50		17.50		20.50													
	48	5240	19.20	19.50	19.60	20.00	22.42	22.80			19.00		19.00		22.50			17.50		17.50		20.50													
802.11n-HT20 MCS0	36	5180	18.87	19.00	18.60	19.00	21.75	22.00	100.00	Not Required	19.00	Not Required	19.00	Not Required	22.00	100.00	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required	20.50	100.00										
	40	5200	18.81	19.00	18.88	19.00	21.86	22.00			19.00		19.00		22.00			17.50		17.50		20.50													
	44	5220	19.92	20.00	19.86	20.00	22.90	23.00			19.00		19.00		22.50			17.50		17.50		20.50													
	48	5240	19.77	20.00	19.80	20.00	22.80	23.00			19.00		19.00		22.50			17.50		17.50		20.50													
802.11n-HT40 MCS0	38	5190	17.10	17.50	17.01	17.50	20.07	20.50	100.00	17.10	17.50	17.01	17.50	20.07	20.50	100.00	17.10	17.50	17.01	17.50	20.07	20.50	100.00												
	46	5230	19.55	20.00	19.35	19.50	22.46	22.80		18.87	19.00	18.85	19.00	22.11	22.50		17.30	17.50	17.25	17.50	20.20	20.50													
802.11ac-VHT20 MCS0	36	5180	18.82	19.00	18.55	19.00	21.70	22.00	100.00	Not Required	19.00	Not Required	19.00	Not Required	22.00	100.00	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required	20.50	100.00										
	40	5200	18.76	19.00	18.83	19.00	21.81	22.00			19.00		19.00		22.00			17.50		17.50		20.50													
	44	5220	19.87	20.00	19.81	20.00	22.85	23.00			19.00		19.00		22.50			17.50		17.50		20.50													
	48	5240	19.72	20.00	19.75	20.00	22.75	23.00			19.00		19.00		22.50			17.50		17.50		20.50													
802.11ac-VHT40 MCS0	38	5190	17.05	17.50	16.96	17.00	20.02	20.30	100.00	17.50	17.00	17.00	17.00	20.30	20.00	100.00	17.50	17.00	17.00	17.00	20.30	20.00	100.00												
	46	5230	19.50	19.50	19.30	19.50	22.41	22.50		19.00	19.00	22.50	17.50	17.50	20.50																				
802.11ac-VHT80 MCS0	42	5210	16.79	17.00	17.15	17.50	19.98	20.30	100.00	17.00	17.50	17.50	17.50	20.30	100.00	17.00	17.00	17.50	17.50	20.30	100.00														
802.11ac-VHT160 MCS0	50	5250	15.38	15.50	15.37	15.50	18.39	18.50	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00												
802.11ax-HE20 MCS0	36	5180	18.92	19.00	18.65	19.00	21.80	22.00	100.00	Not Required	19.00	Not Required	19.00	Not Required	22.00	100.00	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required	20.50	100.00										
	40	5200	18.86	19.00	18.93	19.00	21.91	22.00			19.00		19.00		22.00			17.50		17.50		20.50													
	44	5220	19.97	20.00	19.91	20.00	22.95	23.00			19.00		19.00		22.50			17.50		17.50		20.50													
	48	5240	19.82	20.00	19.85	20.00	22.85	23.00			19.00		19.00		22.50			17.50		17.50		20.50													
802.11ax-HE40 MCS0	38	5190	17.15	17.50	17.06	17.50	20.12	20.50	100.00	17.50	17.50	17.50	17.50	20.50	100.00	17.50	17.50	17.50	17.50	20.50	100.00														
	46	5230	19.60	20.00	19.40	19.50	22.51	22.80		19.00	19.00	22.50	17.50	17.50	20.50																				
802.11ax-HE80 MCS0	42	5210	16.89	17.00	17.25	17.50	20.08	20.30	100.00	17.00	17.50	17.50	17.50	20.30	100.00	17.00	17.50	17.50	17.50	20.30	100.00														
802.11ax-HE160 MCS0	50	5250	15.48	15.50	15.47	15.50	18.49	18.50	100.00	15.50	15.50	15.50	15.50	18.50	100.00	15.50	15.50	15.50	15.50	18.50	100.00														



5.2GHz WLAN			Body-worn Standalone DBS MIMO&Extremely Standalone DBS MIMO								Body-worn Simultaneous Non DBS MIMO&Extremely Simultaneous Non DBS MIMO								Head Simultaneous DBS MIMO&																
			MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note												
Mode	Chan nel	Frequ ecy (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %												
802.11a 6Mbps	36	5180	Not Required	19.00	Not Required	19.00	Not Required	22.00	99.05	Not Required	16.00	Not Required	16.00	Not Required	19.00	99.05	Not Required	14.50	Not Required	14.50	Not Required	17.50	99.05												
	40	5200		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
	44	5220		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
	48	5240		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
802.11n-HT20 MCS0	36	5180	Not Required	19.00	Not Required	19.00	Not Required	22.00	100.00	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00												
	40	5200		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
	44	5220		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
	48	5240		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
802.11n-HT40 MCS0	38	5190	17.10	17.50	17.01	17.50	20.07	20.50	100.00	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00												
	46	5230	18.63	19.00	18.64	19.00	21.71	22.00	100.00		16.00		16.00		19.00			14.50		14.50		17.50		100.00											
802.11ac-VH T20 MCS0	36	5180	Not Required	19.00	Not Required	19.00	Not Required	22.00	100.00	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00												
	40	5200		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
	44	5220		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
	48	5240		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
802.11ac-VH T40 MCS0	38	5190	Not Required	17.50	Not Required	17.00	Not Required	20.30	100.00	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00												
	46	5230		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
802.11ac-VH T80 MCS0	42	5210	Not Required	17.00	Not Required	17.50	Not Required	20.30	100.00	Not Required	15.71	Not Required	15.88	Not Required	18.86	100.00	Not Required	14.25	Not Required	14.50	Not Required	14.32	100.00												
802.11ac-VH T160 MCS0	50	5250		15.50		15.50		18.50			100.00		15.50		15.50			18.50		100.00		14.50		14.50	17.50	100.00									
802.11ax-HE 20 MCS0	36	5180		Not Required		19.00		Not Required			19.00		Not Required		22.00			100.00		Not Required		16.00		Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00
	40	5200				19.00					19.00				22.00							16.00			16.00		19.00			14.50		14.50		17.50	
	44	5220	19.00		19.00	22.00	16.00		16.00	19.00	14.50	14.50		17.50																					
	48	5240	19.00		19.00	22.00	16.00		16.00	19.00	14.50	14.50		17.50																					
802.11ax-HE 40 MCS0	38	5190	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00												
	46	5230		19.00		19.00		22.00			16.00		16.00		19.00			14.50		14.50		17.50													
802.11ax-HE 80 MCS0	42	5210	Not Required	17.00	Not Required	17.50	Not Required	20.30	100.00	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00												
802.11ax-HE 160 MCS0	50	5250		15.50		15.50		18.50			100.00		15.50		15.50			18.50		100.00		14.50		14.50	17.50	100.00									



5.2GHz WLAN			Body-worn Simultaneous DBS MIMO&Extremely Simultaneous DBS MIMO							Hotspot Standalone Non DBS MIMO							Hotspot Standalone DBS MIMO							
			MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	
Mode	Chan nel	Frequ ecy (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	Not Required	13.00	Not Required	13.00	Not Required	16.00	99.05	18.41	18.50	18.31	18.50	21.41	21.50	99.05	Not Required	15.50	Not Required	15.50	Not Required	18.50	99.05	
	40	5200		13.00		13.00		16.00		18.38	18.50	18.15	18.50	21.33	21.50			15.50		15.50		18.50		
	44	5220		13.00		13.00		16.00		18.16	18.50	18.22	18.50	21.21	21.50			15.50		15.50		18.50		
	48	5240		13.00		13.00		16.00		18.09	18.50	18.13	18.50	21.13	21.50			15.50		15.50		18.50		
802.11n-HT20 MCS0	36	5180	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00	Not Required	18.50	Not Required	18.50	Not Required	21.50	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	
	40	5200		13.00		13.00		16.00		Not Required	18.50	Not Required	18.50	Not Required	21.50			15.50		15.50		18.50		
	44	5220		13.00		13.00		16.00		Not Required	18.50	Not Required	18.50	Not Required	21.50			15.50		15.50		18.50		
	48	5240		13.00		13.00		16.00		Not Required	18.50	Not Required	18.50	Not Required	21.50			15.50		15.50		18.50		
802.11n-HT40 MCS0	38	5190	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00	17.10	17.50	17.01	17.50	20.07	20.50	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	
	46	5230		13.00		13.00		16.00		18.25	18.50	18.36	18.50	21.22	21.50			15.50		15.50		18.50		
802.11ac-VHT20 MCS0	36	5180	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00	Not Required	18.50	Not Required	18.50	Not Required	21.50	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	
	40	5200		13.00		13.00		16.00			18.50		18.50		21.50			15.50		15.50		18.50		
	44	5220		13.00		13.00		16.00			18.50		18.50		21.50			15.50		15.50		18.50		
	48	5240		13.00		13.00		16.00			18.50		18.50		21.50			15.50		15.50		18.50		
802.11ac-VHT40 MCS0	38	5190	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00	Not Required	17.50	Not Required	17.00	Not Required	20.30	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	
	46	5230		13.00		13.00		16.00			18.50		18.50		21.50			15.50		15.50		18.50		
802.11ac-VHT80 MCS0	42	5210	12.73	13.00	12.86	13.00	15.79	16.00	100.00	Not Required	17.00	Not Required	17.50	Not Required	20.30	100.00	Not Required	15.22	15.50	15.26	15.50	18.39	18.50	100.00
802.11ac-VHT160 MCS0	50	5250	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	
802.11ax-HE20 MCS0	36	5180	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00	Not Required	18.50	Not Required	18.50	Not Required	21.50	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	
	40	5200		13.00		13.00		16.00			18.50		18.50		21.50			15.50		15.50		18.50		
	44	5220		13.00		13.00		16.00			18.50		18.50		21.50			15.50		15.50		18.50		
	48	5240		13.00		13.00		16.00			18.50		18.50		21.50			15.50		15.50		18.50		
802.11ax-HE40 MCS0	38	5190	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	
	46	5230		13.00		13.00		16.00			18.50		18.50		21.50			15.50		15.50		18.50		
802.11ax-HE80 MCS0	42	5210	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00	Not Required	17.00	Not Required	17.50	Not Required	20.30	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	
802.11ax-HE160 MCS0	50	5250	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	Not Required	15.50	Not Required	15.50	Not Required	18.50	100.00	



5.2GHz WLAN			Hotspot Simultaneous Non DBS MIMO							Hotspot Simultaneous DBS MIMO						
			MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	Not Required	13.50	Not Required	13.50	Not Required	16.50	99.05	Not Required	10.50	Not Required	10.50	Not Required	13.50	99.05
	40	5200		13.50		13.50		16.50			10.50		13.50			
	44	5220		13.50		13.50		16.50			10.50		13.50			
	48	5240		13.50		13.50		16.50			10.50		13.50			
802.11n-HT20 MCS0	36	5180	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	Not Required	10.50	Not Required	10.50	Not Required	13.50	100.00
	40	5200		13.50		13.50		16.50			10.50		13.50			
	44	5220		13.50		13.50		16.50			10.50		13.50			
	48	5240		13.50		13.50		16.50			10.50		13.50			
802.11n-HT40 MCS0	38	5190	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	Not Required	10.50	Not Required	10.50	Not Required	13.50	100.00
	46	5230		13.50		13.50		16.50			10.50		13.50			
802.11ac-VHT20 MCS0	36	5180	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	Not Required	10.50	Not Required	10.50	Not Required	13.50	100.00
	40	5200		13.50		13.50		16.50			10.50		13.50			
	44	5220		13.50		13.50		16.50			10.50		13.50			
	48	5240		13.50		13.50		16.50			10.50		13.50			
802.11ac-VHT40 MCS0	38	5190	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	Not Required	10.50	Not Required	10.50	Not Required	13.50	100.00
	46	5230		13.50		13.50		16.50			10.50		13.50			
802.11ac-VHT80 MCS0	42	5210	13.26	13.50	13.42	13.50	16.34	16.50	100.00	10.29	10.50	10.36	10.50	13.28	13.50	100.00
802.11ac-VHT160 MCS0	50	5250	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	Not Required	10.50	Not Required	10.50	Not Required	13.50	100.00
802.11ax-HE20 MCS0	36	5180		13.50		13.50		16.50			10.50		13.50			
	40	5200		13.50		13.50		16.50			10.50		13.50			
	44	5220		13.50		13.50		16.50			10.50		13.50			
	48	5240	13.50	13.50	16.50	10.50	13.50									
802.11ax-HE40 MCS0	38	5190	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	Not Required	10.50	Not Required	10.50	Not Required	13.50	100.00
	46	5230		13.50		13.50		16.50			10.50		13.50			
802.11ax-HE80 MCS0	42	5210	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	Not Required	10.50	Not Required	10.50	Not Required	13.50	100.00
802.11ax-HE160 MCS0	50	5250		13.50		13.50		16.50			10.50		13.50			



<5.3GHz WLAN>

5.3GHz WLAN			MIMO Full power							Head Standalone DBS MIMO						
			Body-worn Standalone Non DBS MIMO				Head Standalone Non DBS MIMO			Extremely Standalone Non DBS MIMO				Head Standalone DBS MIMO		
Mode	Channel	Frequency (MHz)	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	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	52	5260	19.47	19.50	19.27	19.50	22.38	22.50	99.05	Not Required	19.50	Not Required	19.50	Not Required	22.50	99.05
	56	5280	19.75	20.00	19.64	20.00	22.61	23.00			19.50		19.50		22.50	
	60	5300	19.42	19.50	19.29	19.50	22.37	22.50			19.50		19.50		22.50	
	64	5320	19.41	19.50	18.25	18.50	21.88	22.00			19.50		18.50		22.00	
802.11n-HT20 MCS0	52	5260	19.82	20.00	19.40	19.50	22.63	22.80	100.00	Not Required	19.50	Not Required	19.50	Not Required	22.50	100.00
	56	5280	19.71	20.00	19.49	19.50	22.61	22.80			19.50		19.50		22.50	
	60	5300	19.79	20.00	18.63	19.00	22.26	22.50			19.50		19.00		22.50	
	64	5320	19.27	19.50	18.12	18.50	21.74	22.00			19.50		18.50		22.00	
802.11n-HT40 MCS0	54	5270	19.94	20.00	19.80	20.00	22.88	23.00	100.00	19.34	19.50	19.42	19.50	22.23	22.50	100.00
	62	5310	18.23	18.50	17.39	17.50	20.84	21.00		18.23	18.50	17.39	17.50	20.84	21.00	
802.11ac-VHT20 MCS0	52	5260	19.77	20.00	19.35	19.50	22.58	22.80	100.00	Not Required	19.50	Not Required	19.50	Not Required	22.50	100.00
	56	5280	19.66	20.00	19.44	19.50	22.56	22.80			19.50		19.50		22.50	
	60	5300	19.74	20.00	18.58	19.00	22.21	22.50			19.50		19.00		22.50	
	64	5320	19.22	19.50	18.07	18.50	21.69	22.00			19.50		18.50		22.00	
802.11ac-VHT40 MCS0	54	5270	19.89	20.00	19.75	20.00	22.83	23.00	100.00	19.50	Not Required	19.50	Not Required	22.50	100.00	
	62	5310	18.18	18.50	17.34	17.50	20.79	21.00		18.50		17.50		21.00		
802.11ac-VHT80 MCS0	58	5290	16.72	17.00	16.59	17.00	19.67	20.00	100.00	Not Required	17.00	Not Required	17.00	Not Required	20.00	100.00
802.11ax-HE20 MCS0	52	5260	19.87	20.00	19.45	19.50	22.68	22.80	100.00	Not Required	19.50	Not Required	19.50	Not Required	22.50	100.00
	56	5280	19.76	20.00	19.54	20.00	22.66	23.00			19.50		19.50		22.50	
	60	5300	19.84	20.00	18.68	19.00	22.31	22.50			19.50		19.00		22.50	
	64	5320	19.32	19.50	18.17	18.50	21.79	22.00			19.50		18.50		22.00	
802.11ax-HE40 MCS0	54	5270	19.99	20.00	19.85	20.00	22.93	23.00	100.00	19.50	Not Required	19.50	Not Required	22.50	100.00	
	62	5310	18.28	18.50	17.44	17.50	20.89	21.00		18.50		17.50		21.00		
802.11ax-HE80 MCS0	58	5290	16.82	17.00	16.79	17.00	19.82	20.00	100.00	17.00	Not Required	17.00	Not Required	20.00	100.00	



5.3GHz WLAN			Head Simultaneous Non DBS MIMO							Body-worn Standalone DBS MIMO&Extremely Standalone DBS MIMO						
			MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	Not Required	17.50	Not Required	17.50	Not Required	20.50	99.05	Not Required	19.00	Not Required	19.00	Not Required	22.00	99.05
	56	5280		17.50		17.50		20.50			19.00		19.00		22.00	
	60	5300		17.50		17.50		20.50			19.00		19.00		22.00	
	64	5320		17.50		17.50		20.50			19.00		18.50		22.00	
802.11n-HT20 MCS0	52	5260	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	19.00	Not Required	19.00	Not Required	22.00	100.00
	56	5280		17.50		17.50		20.50			19.00		19.00		22.00	
	60	5300		17.50		17.50		20.50			19.00		19.00		22.00	
	64	5320		17.50		17.50		20.50			19.00		18.50		22.00	
802.11n-HT40 MCS0	54	5270	17.40	17.50	17.44	17.50	20.34	20.50	100.00	18.66	19.00	18.75	19.00	21.88	22.00	100.00
	62	5310	17.32	17.50	17.39	17.50	20.22	20.50	100.00	18.23	18.50	17.39	17.50	20.84	21.00	100.00
802.11ac-VHT20 MCS0	52	5260	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	19.00	Not Required	19.00	Not Required	22.00	100.00
	56	5280		17.50		17.50		20.50			19.00		19.00		22.00	
	60	5300		17.50		17.50		20.50			19.00		19.00		22.00	
	64	5320		17.50		17.50		20.50			19.00		18.50		22.00	
802.11ac-VHT40 MCS0	54	5270	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	19.00	Not Required	19.00	Not Required	22.00	100.00
	62	5310		17.50		17.50		20.50	18.50		17.50		21.00		100.00	
802.11ac-VHT80 MCS0	58	5290	Not Required	17.00	Not Required	17.00	Not Required	20.00	100.00	Not Required	17.00	Not Required	17.00	Not Required	20.00	100.00
802.11ax-HE20 MCS0	52	5260	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	19.00	Not Required	19.00	Not Required	22.00	100.00
	56	5280		17.50		17.50		20.50			19.00		19.00		22.00	
	60	5300		17.50		17.50		20.50			19.00		19.00		22.00	
	64	5320		17.50		17.50		20.50			19.00		18.50		22.00	
802.11ax-HE40 MCS0	54	5270	Not Required	17.50	Not Required	17.50	Not Required	20.50	100.00	Not Required	19.00	Not Required	19.00	Not Required	22.00	100.00
	62	5310		17.50		17.50		20.50	18.50		17.50		21.00		100.00	
802.11ax-HE80 MCS0	58	5290	Not Required	17.00	Not Required	17.00	Not Required	20.00	100.00	Not Required	17.00	Not Required	17.00	Not Required	20.00	100.00



FCC SAR Test Report

Report No. : FA311601

5.3GHz WLAN			Body-worn Simultaneous Non DBS MIMO&Extremely Simultaneous Non DBS MIMO							Head Simultaneous DBS MIMO							Body-worn Simultaneous DBS MIMO&Extremely Simultaneous DBS MIMO						
Mode	Channel	Frequency (MHz)	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	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	52	5260	Not Required	16.00	Not Required	16.00	Not Required	19.00	99.05	Not Required	14.50	Not Required	14.50	Not Required	17.50	99.05	Not Required	13.00	Not Required	13.00	Not Required	16.00	99.05
	56	5280		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
	60	5300		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
	64	5320		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
802.11n-HT20 MCS0	52	5260	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00
	56	5280		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
	60	5300		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
	64	5320		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
802.11n-HT40 MCS0	54	5270	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00
	62	5310		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
802.11ac-VHT20 MCS0	52	5260	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00
	56	5280		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
	60	5300		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
	64	5320		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
802.11ac-VHT40 MCS0	54	5270	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00
	62	5310		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
802.11ac-VHT80 MCS0	58	5290	15.85	16.00	15.77	16.00	18.86	19.00	100.00	14.32	14.50	14.42	14.50	17.21	17.50	100.00	12.81	13.00	12.73	13.00	15.84	16.00	100.00
802.11ax-HE20 MCS0	52	5260	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00
	56	5280		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
	60	5300		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
	64	5320		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
802.11ax-HE40 MCS0	54	5270	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00
	62	5310		16.00		16.00		19.00			14.50		14.50		17.50			13.00		13.00		16.00	
802.11ax-HE80 MCS0	58	5290	Not Required	16.00	Not Required	16.00	Not Required	19.00	100.00	Not Required	14.50	Not Required	14.50	Not Required	17.50	100.00	Not Required	13.00	Not Required	13.00	Not Required	16.00	100.00



<5.5GHz WLAN>

5.5GHz WLAN			MIMO Full power&Head Standalone Non DBS MIMO&Body-worn Standalone Non DBS MIMO&Extremely Standalone Non DBS MIMO								Head Standalone DBS MIMO								Body-worn Standalone DBS MIMO&Extremely Standalone DBS MIMO							
			MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %			
802.11a 6Mbps	100	5500	18.89	19.00	18.95	19.00	21.93	22.00	99.05		16.00		16.50		19.30	99.05	15.50		16.00		18.80	99.05				
	116	5580	18.57	19.00	18.97	19.00	21.79	22.00			16.00		16.50		19.30		15.50		16.00		18.80					
	124	5620	18.35	18.50	18.99	19.00	21.69	21.80			16.00		16.50		19.30		15.50		16.00		18.80					
	132	5660	18.34	18.50	18.93	19.00	21.66	21.80			16.00		16.50		19.30		15.50		16.00		18.80					
	140	5700	16.68	17.00	17.25	17.50	19.99	20.30			16.00		16.50		19.30		15.50		16.00		18.80					
	144	5720	18.39	18.50	18.43	18.50	21.42	21.50			16.00		16.50		19.30		15.50		16.00		18.80					
802.11n-HT20 MCS0	100	5500	18.18	18.50	18.26	18.50	21.23	21.50	100.00		16.00		16.50		19.30	100.00	15.50		16.00		18.80	100.00				
	116	5580	18.48	18.50	18.84	19.00	21.67	21.80			16.00		16.50		19.30		15.50		16.00		18.80					
	124	5620	18.23	18.50	18.96	19.00	21.62	21.80			16.00		16.50		19.30		15.50		16.00		18.80					
	132	5660	18.22	18.50	18.86	19.00	21.56	21.80			16.00		16.50		19.30		15.50		16.00		18.80					
	140	5700	16.57	17.00	17.19	17.50	19.90	20.30			16.00		16.50		19.30		15.50		16.00		18.80					
	144	5720	18.26	18.50	18.31	18.50	21.30	21.50			16.00		16.50		19.30		15.50		16.00		18.80					
802.11n-HT40 MCS0	102	5510	17.20	17.50	17.56	18.00	20.39	20.80	100.00	Not Required	16.00	Not Required	16.50	Not Required	19.30	100.00	15.50	Not Required	16.00	Not Required	18.80	100.00				
	110	5550	18.72	19.00	19.30	19.50	22.03	22.30			16.00		16.50		19.30		15.50		16.00		18.80					
	126	5630	18.31	18.50	19.16	19.50	21.77	22.00			16.00		16.50		19.30		15.50		16.00		18.80					
	134	5670	18.33	18.50	18.87	19.00	21.62	21.80			16.00		16.50		19.30		15.50		16.00		18.80					
	142	5710	18.44	18.50	18.48	18.50	21.47	21.50			16.00		16.50		19.30		15.50		16.00		18.80					
	100	5500	18.13	18.50	18.21	18.50	21.18	21.50			100.00				16.00				16.50				19.30	100.00	15.50	
116	5580	18.43	18.50	18.79	19.00	21.62	21.80	16.00	16.50	19.30		15.50		16.00	18.80											
124	5620	18.18	18.50	18.91	19.00	21.57	21.80	16.00	16.50	19.30		15.50		16.00	18.80											
132	5660	18.17	18.50	18.81	19.00	21.51	21.80	16.00	16.50	19.30		15.50		16.00	18.80											
140	5700	16.52	17.00	17.14	17.50	19.85	20.30	16.00	16.50	19.30		15.50		16.00	18.80											
144	5720	18.21	18.50	18.26	18.50	21.25	21.50	16.00	16.50	19.30		15.50		16.00	18.80											
802.11ac-VHT40 MCS0	102	5510	17.15	17.50	17.51	18.00	20.34	20.80	100.00		16.00		16.50		19.30	100.00	15.50		16.00		18.80	100.00				
	110	5550	18.67	19.00	19.25	19.50	21.98	22.30			16.00		16.50		19.30		15.50		16.00		18.80					
	126	5630	18.26	18.50	19.11	19.50	21.72	21.80			16.00		16.50		19.30		15.50		16.00		18.80					
	134	5670	18.28	18.50	18.82	19.00	21.57	21.80			16.00		16.50		19.30		15.50		16.00		18.80					
	142	5710	18.39	18.50	18.43	18.50	21.42	21.50			16.00		16.50		19.30		15.50		16.00		18.80					
	106	5530	16.08	16.50	16.52	17.00	19.32	19.80			100.00		15.23		16.00		16.12		16.50		18.89		19.30	100.00	15.12	15.50
122	5610	17.78	18.00	18.57	19.00	21.20	21.50	15.36	16.00	16.26		16.50	19.03	19.30	15.26	15.50	15.72	16.00	18.60	18.80						
138	5690	18.00	18.00	18.89	19.00	21.48	21.50	15.44	16.00	16.39		16.50	19.15	19.30	15.39	15.50	15.88	16.00	18.74	18.80						
802.11ac-VHT160 MCS0	114	5570	15.49	15.50	16.08	16.50	18.81	19.00	100.00		15.50		16.50		19.00	100.00	15.50		16.00		18.80	100.00				
802.11ax-HE20 MCS0	100	5500	18.23	18.50	18.31	18.50	21.28	21.50	100.00		16.00		16.50		19.30	100.00	15.50		16.00		18.80	100.00				
	116	5580	18.53	19.00	18.89	19.00	21.72	22.00			16.00		16.50		19.30		15.50		16.00		18.80					
	124	5620	18.28	18.50	19.01	19.50	21.67	22.00			16.00		16.50		19.30		15.50		16.00		18.80					
	132	5660	18.27	18.50	18.91	19.00	21.61	22.00			16.00		16.50		19.30		15.50		16.00		18.80					
	140	5700	16.62	17.00	17.24	17.50	19.95	20.30			16.00		16.50		19.30		15.50		16.00		18.80					
	144	5720	18.31	18.50	18.36	18.50	21.35	21.50			16.00		16.50		19.30		15.50		16.00		18.80					
802.11ax-HE40 MCS0	102	5510	17.25	17.50	17.61	18.00	20.44	20.80	100.00	Not Required	16.00	Not Required	16.50	Not Required	19.30	100.00	15.50	Not Required	16.00	Not Required	18.80	100.00				
	110	5550	18.77	19.00	19.35	19.50	22.08	22.30			16.00		16.50		19.30		15.50		16.00		18.80					
	126	5630	18.36	18.50	19.21	19.50	21.82	22.00			16.00		16.50		19.30		15.50		16.00		18.80					
	134	5670	18.38	18.50	18.92	19.00	21.67	21.80			16.00		16.50		19.30		15.50		16.00		18.80					
	142	5710	18.49	18.50	18.53	19.00	21.52	21.80			16.00		16.50		19.30		15.50		16.00		18.80					
	106	5530	16.18	16.50	16.62	17.00	19.42	19.80			100.00		16.00		16.50		19.30		15.50		16.00		18.80			
122	5610	17.88	18.00	18.67	19.00	21.30	21.50	16.00	16.50	19.30		15.50	16.00	18.80												
138	5690	18.10	18.50	18.99	19.00	21.58	21.80	16.00	16.50	19.30		15.50	16.00	18.80												
802.11ax-HE160 MCS0	114	5570	15.59	16.00	16.18	16.50	18.91	19.30	100.00		16.00		16.50		19.30	100.00	15.50		16.00		18.80	100.00				



5.5GHz WLAN			Head Simultaneous Non DBS MIMO							Body-worn Simultaneous Non DBS MIMO&Extremely Simultaneous Non DBS MIMO						
Mode	Channel	Frequency (MHz)	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	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	100	5500		14.00		14.50		17.30	99.05		13.50		14.00		16.80	99.05
	116	5580		14.00		14.50		17.30			13.50		14.00		16.80	
	124	5620		14.00		14.50		17.30			13.50		14.00		16.80	
	132	5660		14.00		14.50		17.30			13.50		14.00		16.80	
	140	5700		14.00		14.50		17.30			13.50		14.00		16.80	
	144	5720		14.00		14.50		17.30			13.50		14.00		16.80	
802.11n-HT20 MCS0	100	5500		14.00		14.50		17.30	100.00		13.50		14.00		16.80	100.00
	116	5580		14.00		14.50		17.30			13.50		14.00		16.80	
	124	5620		14.00		14.50		17.30			13.50		14.00		16.80	
	132	5660		14.00		14.50		17.30			13.50		14.00		16.80	
	140	5700		14.00		14.50		17.30			13.50		14.00		16.80	
802.11n-HT40 MCS0	102	5510	Not Required	14.00	Not Required	14.50	Not Required	17.30	100.00	Not Required	13.50	Not Required	14.00	Not Required	16.80	100.00
	110	5550		14.00		14.50		17.30			13.50		14.00		16.80	
	126	5630		14.00		14.50		17.30			13.50		14.00		16.80	
	134	5670		14.00		14.50		17.30			13.50		14.00		16.80	
802.11ac-VHT20 MCS0	100	5500		14.00		14.50		17.30	100.00		13.50		14.00		16.80	100.00
	116	5580		14.00		14.50		17.30			13.50		14.00		16.80	
	124	5620		14.00		14.50		17.30			13.50		14.00		16.80	
	132	5660		14.00		14.50		17.30			13.50		14.00		16.80	
	140	5700		14.00		14.50		17.30			13.50		14.00		16.80	
802.11ac-VHT40 MCS0	102	5510		14.00		14.50		17.30	100.00		13.50		14.00		16.80	100.00
	110	5550		14.00		14.50		17.30			13.50		14.00		16.80	
	126	5630		14.00		14.50		17.30			13.50		14.00		16.80	
	134	5670		14.00		14.50		17.30			13.50		14.00		16.80	
802.11ac-VHT80 MCS0	106	5530	13.60	14.00	14.12	14.50	16.96	17.30	100.00	13.12	13.50	13.62	14.00	16.55	16.80	100.00
	122	5610	13.77	14.00	14.26	14.50	17.06	17.30		13.26	13.50	13.77	14.00	16.63	16.80	
	138	5690	13.86	14.00	14.39	14.50	17.19	17.30		13.41	13.50	13.85	14.00	16.70	16.80	
802.11ac-VHT160 MCS0	114	5570		14.00		14.50		17.30	100.00		13.50		14.00		16.80	100.00
802.11ax-HE20 MCS0	100	5500		14.00		14.50		17.30	100.00		13.50		14.00		16.80	100.00
	116	5580		14.00		14.50		17.30			13.50		14.00		16.80	
	124	5620		14.00		14.50		17.30			13.50		14.00		16.80	
	132	5660		14.00		14.50		17.30			13.50		14.00		16.80	
	140	5700		14.00		14.50		17.30			13.50		14.00		16.80	
	144	5720		14.00		14.50		17.30			13.50		14.00		16.80	
802.11ax-HE40 MCS0	102	5510	Not Required	14.00	Not Required	14.50	Not Required	17.30	100.00	Not Required	13.50	Not Required	14.00	Not Required	16.80	100.00
	110	5550		14.00		14.50		17.30			13.50		14.00		16.80	
	126	5630		14.00		14.50		17.30			13.50		14.00		16.80	
	134	5670		14.00		14.50		17.30			13.50		14.00		16.80	
802.11ax-HE80 MCS0	106	5530		14.00		14.50		17.30	100.00		13.50		14.00		16.80	100.00
	122	5610		14.00		14.50		17.30			13.50		14.00		16.80	
	138	5690		14.00		14.50		17.30			13.50		14.00		16.80	
802.11ax-HE160 MCS0	114	5570		14.00		14.50		17.30	100.00		13.50		14.00		16.80	100.00



5.5GHz WLAN			Head Simultaneous DBS MIMO							Body-worn Simultaneous DBS MIMO&Extremely Simultaneous DBS MIMO						
Mode	Channel	Frequency (MHz)	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	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	100	5500		11.00		11.50		14.30	99.05		10.50		11.00		13.80	99.05
	116	5580		11.00		11.50		14.30			10.50		11.00		13.80	
	124	5620		11.00		11.50		14.30			10.50		11.00		13.80	
	132	5660		11.00		11.50		14.30			10.50		11.00		13.80	
	140	5700		11.00		11.50		14.30			10.50		11.00		13.80	
	144	5720		11.00		11.50		14.30			10.50		11.00		13.80	
802.11n-HT20 MCS0	100	5500		11.00		11.50		14.30	100.00		10.50		11.00		13.80	100.00
	116	5580		11.00		11.50		14.30			10.50		11.00		13.80	
	124	5620		11.00		11.50		14.30			10.50		11.00		13.80	
	132	5660		11.00		11.50		14.30			10.50		11.00		13.80	
	140	5700		11.00		11.50		14.30			10.50		11.00		13.80	
	144	5720		11.00		11.50		14.30			10.50		11.00		13.80	
802.11n-HT40 MCS0	102	5510	Not Required	11.00	Not Required	11.50	Not Required	14.30	100.00	Not Required	10.50	Not Required	11.00	Not Required	13.80	100.00
	110	5550		11.00		11.50		14.30			10.50		11.00			
	126	5630		11.00		11.50		14.30			10.50		11.00			
	134	5670		11.00		11.50		14.30			10.50		11.00			
802.11ac-VHT20 MCS0	100	5500		11.00		11.50		14.30	100.00		10.50		11.00		13.80	100.00
	116	5580		11.00		11.50		14.30			10.50		11.00		13.80	
	124	5620		11.00		11.50		14.30			10.50		11.00		13.80	
	132	5660		11.00		11.50		14.30			10.50		11.00		13.80	
	140	5700		11.00		11.50		14.30			10.50		11.00		13.80	
	144	5720		11.00		11.50		14.30			10.50		11.00		13.80	
802.11ac-VHT40 MCS0	102	5510		11.00		11.50		14.30	100.00		10.50		11.00		13.80	100.00
	110	5550		11.00		11.50		14.30			10.50		11.00		13.80	
	126	5630		11.00		11.50		14.30			10.50		11.00		13.80	
	134	5670		11.00		11.50		14.30			10.50		11.00		13.80	
802.11ac-VHT80 MCS0	106	5530	10.62	11.00	11.12	11.50	13.99	14.30	100.00	10.15	10.50	10.63	11.00	13.53	13.80	100.00
	122	5610	10.74	11.00	11.26	11.50	14.16	14.30		10.22	10.50	10.66	11.00	13.66	13.80	
	138	5690	10.85	11.00	11.39	11.50	14.20	14.30		10.36	10.50	10.78	11.00	13.72	13.80	
802.11ac-VHT160 MCS0	114	5570		11.00		11.50		14.30	100.00		10.50		11.00		13.80	100.00
802.11ax-HE20 MCS0	100	5500		11.00		11.50		14.30	100.00		10.50		11.00		13.80	100.00
	116	5580		11.00		11.50		14.30			10.50		11.00		13.80	
	124	5620		11.00		11.50		14.30			10.50		11.00		13.80	
	132	5660		11.00		11.50		14.30			10.50		11.00		13.80	
	140	5700		11.00		11.50		14.30			10.50		11.00		13.80	
	144	5720		11.00		11.50		14.30			10.50		11.00		13.80	
802.11ax-HE40 MCS0	102	5510	Not Required	11.00	Not Required	11.50	Not Required	14.30	100.00	Not Required	10.50	Not Required	11.00	Not Required	13.80	100.00
	110	5550		11.00		11.50		14.30			10.50		11.00			
	126	5630		11.00		11.50		14.30			10.50		11.00			
	134	5670		11.00		11.50		14.30			10.50		11.00			
802.11ax-HE80 MCS0	106	5530		11.00		11.50		14.30	100.00		10.50		11.00		13.80	100.00
	122	5610		11.00		11.50		14.30			10.50		11.00		13.80	
	138	5690		11.00		11.50		14.30			10.50		11.00		13.80	
802.11ax-HE160 MCS0	114	5570		11.00		11.50		14.30	100.00		10.50		11.00		13.80	100.00



<5.8GHz WLAN>

5.8GHz WLAN			MIMO Full power Head Standalone Non DBS MIMO & Body-worn Standalone & Extremely Standalone Non DBS MIMO							Head Standalone DBS MIMO & Body-worn Standalone & Extremely Standalone DBS MIMO							Head Simultaneous Non DBS MIMO & Body-worn Simultaneous & Extremely Simultaneous Non DBS MIMO						
			MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	18.98	19.00	18.79	19.00	21.90	22.00	99.05	Not Required	15.50	Not Required	15.00	Not Required	18.30	99.05	Not Required	13.50	Not Required	13.00	Not Required	16.30	99.05
	157	5785	18.92	19.00	18.69	19.00	21.82	22.00			15.50		15.00		18.30			13.50		13.00		16.30	
	165	5825	19.48	19.50	18.83	19.00	22.18	22.30			15.50		15.00		18.30			13.50		13.00		16.30	
802.11n- HT20 MCS0	149	5745	18.64	19.00	18.52	19.00	21.59	22.00	100.00	Not Required	15.50	Not Required	15.00	Not Required	18.30	100.00	Not Required	13.50	Not Required	13.00	Not Required	16.30	100.00
	157	5785	18.60	19.00	18.45	18.50	21.54	21.80			15.50		15.00		18.30			13.50		13.00		16.30	
	165	5825	19.23	19.50	18.50	19.00	21.89	22.30			15.50		15.00		18.30			13.50		13.00		16.30	
802.11n- HT40 MCS0	151	5755	18.67	19.00	18.38	18.50	21.54	21.80	100.00	Not Required	15.50	Not Required	15.00	Not Required	18.30	100.00	Not Required	13.50	Not Required	13.00	Not Required	16.30	100.00
	159	5795	19.27	19.50	18.55	19.00	21.94	22.30			15.50		15.00		18.30			13.50		13.00		16.30	
802.11ac- VHT20 MCS0	149	5745	18.49	18.50	18.47	18.50	21.49	21.50	100.00	Not Required	15.50	Not Required	15.00	Not Required	18.30	100.00	Not Required	13.50	Not Required	13.00	Not Required	16.30	100.00
	157	5785	18.45	18.50	18.40	18.50	21.44	21.50			15.50		15.00		18.30			13.50		13.00		16.30	
	165	5825	19.08	19.50	18.45	18.50	21.79	22.00			15.50		15.00		18.30			13.50		13.00		16.30	
802.11ac- VHT40 MCS0	151	5755	18.62	19.00	18.33	18.50	21.49	21.80	100.00	Not Required	15.50	Not Required	15.00	Not Required	18.30	100.00	Not Required	13.50	Not Required	13.00	Not Required	16.30	100.00
	159	5795	19.22	19.50	18.50	18.50	21.89	22.00			15.50		15.00		18.30			13.50		13.00		16.30	
802.11ac- MCS0	155	5775	18.73	19.00	18.50	18.50	21.63	21.80	100.00	15.26	15.50	14.86	15.00	18.20	18.30	100.00	13.22	13.50	12.86	13.00	16.02	16.30	100.00
802.11ax- HE20 MCS0	149	5745	18.69	19.00	18.57	19.00	21.64	22.00	100.00	Not Required	15.50	Not Required	15.00	Not Required	18.30	100.00	Not Required	13.50	Not Required	13.00	Not Required	16.30	100.00
	157	5785	18.65	19.00	18.50	18.50	21.59	21.80			15.50		15.00		18.30			13.50		13.00		16.30	
	165	5825	19.28	19.50	18.55	19.00	21.94	22.30			15.50		15.00		18.30			13.50		13.00		16.30	
802.11ax- HE40 MCS0	151	5755	18.72	19.00	18.43	18.50	21.59	21.80	100.00	Not Required	15.50	Not Required	15.00	Not Required	18.30	100.00	Not Required	13.50	Not Required	13.00	Not Required	16.30	100.00
	159	5795	19.32	19.50	18.60	19.00	21.99	22.30			15.50		15.00		18.30			13.50		13.00		16.30	
802.11ax- HE80 MCS0	155	5775	18.83	19.00	18.60	19.00	21.73	22.00	100.00	15.50	15.50	15.00	15.00	18.30	100.00	13.50	13.00	13.00	13.00	16.30	16.30	100.00	



5.8GHz WLAN			Head Simultaneous DBS MIMO& Body-worn Simultaneous DBS MIMO& Extremely Simultaneous DBS MIMO							Hotspot Standalone Non DBS MIMO							Hotspot Standalone DBS MIMO						
			MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	Not Required	10.50	Not Required	10.00	Not Required	13.30	99.05	Not Required	17.50	Not Required	17.00	Not Required	20.30	99.05	Not Required	14.00	Not Required	13.50	Not Required	16.80	99.05
	157	5785		10.50		10.00		13.30			17.50		17.00		20.30			14.00		13.50		16.80	
	165	5825		10.50		10.00		13.30			17.50		17.00		20.30			14.00		13.50		16.80	
802.11n-HT20 MCS0	149	5745	Not Required	10.50	Not Required	10.00	Not Required	13.30	100.00	Not Required	17.50	Not Required	17.00	Not Required	20.30	100.00	Not Required	14.00	Not Required	13.50	Not Required	16.80	100.00
	157	5785		10.50		10.00		13.30			17.50		17.00		20.30			14.00		13.50		16.80	
	165	5825		10.50		10.00		13.30			17.50		17.00		20.30			14.00		13.50		16.80	
802.11n-HT40 MCS0	151	5755	Not Required	10.50	Not Required	10.00	Not Required	13.30	100.00	16.67	17.50	16.59	17.00	19.81	20.30	100.00	Not Required	14.00	Not Required	13.50	Not Required	16.80	100.00
	159	5795		10.50		10.00		13.30		17.21	17.50	16.74	17.00	20.06	20.30			14.00		13.50		16.80	
802.11ac-VHT20 MCS0	149	5745	Not Required	10.50	Not Required	10.00	Not Required	13.30	100.00	Not Required	17.50	Not Required	17.00	Not Required	20.30	100.00	Not Required	14.00	Not Required	13.50	Not Required	16.80	100.00
	157	5785		10.50		10.00		13.30			17.50		17.00		20.30			14.00		13.50		16.80	
	165	5825		10.50		10.00		13.30			17.50		17.00		20.30			14.00		13.50		16.80	
802.11ac-VHT40 MCS0	151	5755	Not Required	10.50	Not Required	10.00	Not Required	13.30	100.00	Not Required	17.50	Not Required	17.00	Not Required	20.30	100.00	Not Required	14.00	Not Required	13.50	Not Required	16.80	100.00
	159	5795		10.50		10.00		13.30			17.50		17.00		20.30			14.00		13.50		16.80	
802.11ac-VHT80 MCS0	155	5775	10.25	10.50	9.81	10.00	13.10	13.30	100.00	17.32	17.50	16.85	17.00	20.11	20.30	100.00	13.86	14.00	13.33	13.50	16.65	16.80	100.00
802.11ax-HE20 MCS0	149	5745	Not Required	10.50	Not Required	10.00	Not Required	13.30	100.00	Not Required	17.50	Not Required	17.00	Not Required	20.30	100.00	Not Required	14.00	Not Required	13.50	Not Required	16.80	100.00
	157	5785		10.50		10.00		13.30			17.50		17.00		20.30			14.00		13.50		16.80	
	165	5825		10.50		10.00		13.30			17.50		17.00		20.30			14.00		13.50		16.80	
802.11ax-HE40 MCS0	151	5755	Not Required	10.50	Not Required	10.00	Not Required	13.30	100.00	Not Required	17.50	Not Required	17.00	Not Required	20.30	100.00	Not Required	14.00	Not Required	13.50	Not Required	16.80	100.00
	159	5795		10.50		10.00		13.30			17.50		17.00		20.30			14.00		13.50		16.80	
802.11ax-HE80 MCS0	155	5775	Not Required	10.50	Not Required	10.00	Not Required	13.30	100.00	Not Required	17.50	Not Required	17.00	Not Required	20.30	100.00	Not Required	14.00	Not Required	13.50	Not Required	16.80	100.00

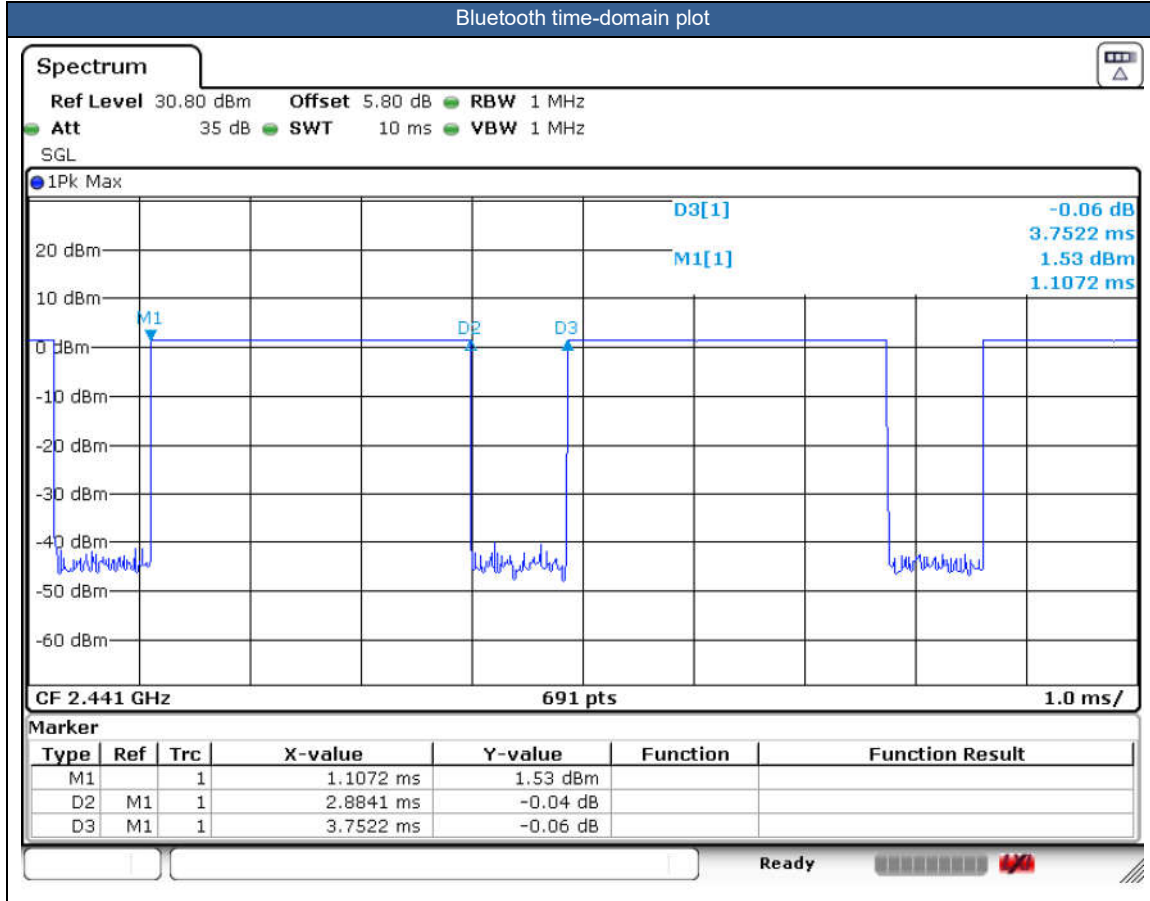


5.8GHz WLAN			Hotspot Simultaneous Non DBS MIMO							Hotspot Simultaneous DBS MIMO												
Mode	Channel	Frequency (MHz)	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note	MIMO_Ant 7		MIMO_Ant 8		MIMO_Ant 7+8		Note						
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		Duty Cycle %					
802.11a 6Mbps	149	5745	Not Required	12.50	Not Required	12.00	Not Required	15.30	99.05	Not Required	9.50	Not Required	9.00	Not Required	12.30	99.05						
	157	5785		12.50		12.00		15.30			9.50		9.00		12.30							
	165	5825		12.50		12.00		15.30			9.50		9.00		12.30							
802.11n-HT20 MCS0	149	5745		12.50		12.00		15.30	100.00		9.50		9.00		12.30	100.00						
	157	5785		12.50		12.00		15.30			9.50		9.00		12.30							
	165	5825		12.50		12.00		15.30			9.50		9.00		12.30							
802.11n-HT40 MCS0	151	5755		12.50		12.00		15.30	100.00		9.50		9.00		12.30	100.00						
	159	5795		12.50		12.00		15.30			9.50		9.00		12.30							
802.11ac-VHT20 MCS0	149	5745		12.50		12.00		15.30	100.00		9.50		9.00		12.30	100.00						
	157	5785		12.50		12.00		15.30			9.50		9.00		12.30							
	165	5825		12.50		12.00		15.30			9.50		9.00		12.30							
802.11ac-VHT40 MCS0	151	5755		12.50		12.00		15.30	100.00		9.50		9.00		12.30	100.00						
	159	5795		12.50		12.00		15.30			9.50		9.00		12.30							
802.11ac-VHT80 MCS0	155	5775		12.33		12.50		11.86	12.00		15.20		15.30		100.00	9.35	9.50	8.88	9.00	12.16	12.30	100.00
802.11ax-HE20 MCS0	149	5745		Not Required		12.50		Not Required	12.00		Not Required		15.30		100.00	Not Required	9.50	Not Required	9.00	Not Required	12.30	100.00
	157	5785	12.50		12.00	15.30	9.50		9.00	12.30												
	165	5825	12.50		12.00	15.30	9.50		9.00	12.30												
802.11ax-HE40 MCS0	151	5755	12.50		12.00	15.30	100.00		9.50	9.00		12.30	100.00									
	159	5795	12.50		12.00	15.30			9.50	9.00		12.30										
802.11ax-HE80 MCS0	155	5775	12.50		12.00	15.30	100.00		9.50	9.00		12.30	100.00									

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.86% as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation





BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	3.13	1.24	1.23
	CH 39	2441	3.20	1.20	1.24
	CH 78	2480	3.27	1.50	1.52
Tune-up Limit			4.00	2.00	2.00

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	3.50
	CH 19	2440	3.30
	CH 39	2480	3.50
Tune-up Limit			4.00

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	3.50
	CH 19	2440	3.30
	CH 39	2480	3.40
Tune-up Limit			4.00



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 SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - 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.
 - g. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 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 when the measured SAR is ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, hotspot, body-worn, and extremity). This device uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can determine proximity to head or body and set the relevant power level for WLAN/BT antennas accordingly.
5. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head, body-worn, handheld.
6. 5G NR n77 / 78 supports HPUE, HPUE power and SAR testing performed separately.
7. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
8. 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 WCDMA Band II/IV, LTE Band 2/4/7/42, 5G NR n2/n7/n38/n41/n77/n78/n66 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.
9. For WLAN SISO & MIMO(CDD) & TX Beamforming mode of 802.11ax, and WLAN SISO & TX Beamforming mode is not greater than WLAN MIMO(CDD) mode, so WLAN MIMO(CDD) mode SAR covers WLAN SISO & Tx Beamforming mode SAR.
10. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling

factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.

11. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
12. According to Nov. 2017 TCB workshop, when the reported SAR for UL CA configuration 1g SAR is <1.2 W/kg, UL CA SAR is not required for all required test channels (PCC based).
13. The RF exposure compliance under the extremity exposure condition (separation =0 mm) can cover the scenarios when the device is attaching the trigger handle and the user's hand is at least few millimeters from the device.

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/64QAM/256QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ 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/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ 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; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B38 / B71 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 B4 / B38 SAR test was covered by B66 / 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/n66/n71/n41 /n77 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:

1. 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.
2. 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.
3. 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.
4. 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.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. For full RU and partial tone size output power measurement, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
7. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO and MIMO mode.
8. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO power to perform SAR testing. However, in order to do SISO simultaneous transmission, we tested the WLAN 2.4G SISO antenna 8.
9. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of SISO antennas respectively to calculate sum of the power for MIMO mode.

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, and so the SAR will use Pmax power to do the testing.

Exposure Condition	DSI Number
Head SAR	DSI 2
Hotspot Mode SAR	DSI 1
Body worn Mode SAR	DSI 0
Product Specific 10g SAR	DSI 0



15.1 Head SAR

Table with 18 columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Power State, Battery, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measure 1g SAR (W/kg), Reported 1g SAR (W/kg). Rows are grouped by frequency bands: 750MHz, 835MHz, and GSM850.



FCC SAR Test Report

Report No. : FA311601

Table with columns for test parameters (e.g., GSM850, WCDMA V, LTE Band 5) and SAR measurement results (e.g., Power, SAR, W, M, Head, Neck, Eye, Hand, etc.).



FCC SAR Test Report

Report No. : FA311601

	LTE Band 66	20M	QPSK	1	0		Left Cheek	0mm	Ant 1	DSI 2	Extended	132322	1745	1	22.69	24.00	1.352		1.000	0.01	0.117	0.158
	LTE Band 66	20M	QPSK	50	0		Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	132322	1745	1	21.76	23.00	1.330		1.000	-0.07	0.125	0.166
	LTE Band 66	20M	QPSK	1	0		Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	132322	1745	1	22.69	24.00	1.352		1.000	-0.09	0.059	0.080
	LTE Band 66	20M	QPSK	50	0		Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	132322	1745	1	21.76	23.00	1.330		1.000	0.08	0.048	0.064
	LTE Band 66C	20M	QPSK	1	99		Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	132322+132520	1745+1764.8	1	22.49	24.00	1.416		1.000	0.01	0.136	0.193
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	349000	1745	1	23.27	24.00	1.183		1.000	-0.16	0.111	0.131
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	349000	1745	1	23.23	24.00	1.194		1.000	-0.16	0.123	0.147
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	349000	1745	1	23.27	24.00	1.183		1.000	0.01	0.043	0.051
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	349000	1745	1	23.23	24.00	1.194		1.000	0.06	0.052	0.062
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	349000	1745	1	23.27	24.00	1.183		1.000	-0.05	0.120	0.142
11	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	349000	1745	1	23.23	24.00	1.194		1.000	0.09	0.142	0.170
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	BLE Beacon	349000	1745	1	23.23	24.00	1.194		1.000	-0.09	0.133	0.159
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Extended	349000	1745	1	23.23	24.00	1.194		1.000	0.08	0.128	0.153
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	349000	1745	1	23.27	24.00	1.183		1.000	0.08	0.044	0.052
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	349000	1745	1	23.23	24.00	1.194		1.000	-0.19	0.051	0.061
1900MHz																						
12	GSM1900					GPRS (4 Tx slots)	Right Cheek	0mm	Ant 2	DSI 2	Standard Battery	661	1880	1	23.97	25.00	1.268		1.000	0.15	0.343	0.435
	GSM1900					GPRS (4 Tx slots)	Right Cheek	0mm	Ant 2	DSI 2	Standard Battery	661	1880	2	23.97	25.00	1.268		1.000	0.03	0.328	0.416
	GSM1900					GPRS (4 Tx slots)	Right Cheek	0mm	Ant 2	DSI 2	BLE Beacon	661	1880	1	23.97	25.00	1.268		1.000	0.08	0.315	0.399
	GSM1900					GPRS (4 Tx slots)	Right Cheek	0mm	Ant 2	DSI 2	Extended	661	1880	1	23.97	25.00	1.268		1.000	-0.19	0.299	0.379
	GSM1900					GPRS (4 Tx slots)	Right Tilted	0mm	Ant 2	DSI 2	Standard Battery	661	1880	1	23.97	25.00	1.268		1.000	-0.04	0.152	0.193
	GSM1900					GPRS (4 Tx slots)	Left Cheek	0mm	Ant 2	DSI 2	Standard Battery	661	1880	1	23.97	25.00	1.268		1.000	-0.05	0.237	0.300
	GSM1900					GPRS (4 Tx slots)	Left Tilted	0mm	Ant 2	DSI 2	Standard Battery	661	1880	1	23.97	25.00	1.268		1.000	0.18	0.157	0.199
	WCDMA II					RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	9400	1880	1	22.90	24.00	1.288		1.000	0.01	0.161	0.207
	WCDMA II					RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	9400	1880	1	22.90	24.00	1.288		1.000	-0.11	0.119	0.153
13	WCDMA II					RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	9400	1880	1	22.90	24.00	1.288		1.000	0.02	0.230	0.296
	WCDMA II					RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	BLE Beacon	9400	1880	1	22.90	24.00	1.288		1.000	-0.05	0.152	0.196
	WCDMA II					RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	Extended	9400	1880	1	22.90	24.00	1.288		1.000	0.18	0.164	0.211
	WCDMA II					RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	9400	1880	1	22.90	24.00	1.288		1.000	-0.16	0.135	0.174
	LTE Band 2	20M	QPSK	1	0		Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	18900	1880	1	22.49	24.00	1.416		1.000	0.08	0.125	0.177
	LTE Band 2	20M	QPSK	50	0		Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	18900	1880	1	21.61	23.00	1.377		1.000	0.12	0.108	0.149
	LTE Band 2	20M	QPSK	1	0		Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	18900	1880	1	22.49	24.00	1.416		1.000	0.04	0.100	0.142
	LTE Band 2	20M	QPSK	50	0		Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	18900	1880	1	21.61	23.00	1.377		1.000	0.04	0.084	0.116
14	LTE Band 2	20M	QPSK	1	0		Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	18900	1880	1	22.49	24.00	1.416		1.000	-0.07	0.184	0.261
	LTE Band 2	20M	QPSK	1	0		Left Cheek	0mm	Ant 1	DSI 2	BLE Beacon	18900	1880	1	22.49	24.00	1.416		1.000	-0.05	0.150	0.212
	LTE Band 2	20M	QPSK	1	0		Left Cheek	0mm	Ant 1	DSI 2	Extended	18900	1880	1	22.49	24.00	1.416		1.000	0.18	0.180	0.255
	LTE Band 2	20M	QPSK	50	0		Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	18900	1880	1	21.61	23.00	1.377		1.000	-0.08	0.145	0.200
	LTE Band 2	20M	QPSK	1	0		Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	18900	1880	1	22.49	24.00	1.416		1.000	0.05	0.098	0.139
	LTE Band 2	20M	QPSK	50	0		Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	18900	1880	1	21.61	23.00	1.377		1.000	-0.03	0.084	0.116
15	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	376000	1880	1	23.00	24.00	1.259		1.000	0.04	0.129	0.162
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	BLE Beacon	376000	1880	1	23.00	24.00	1.259		1.000	0.06	0.119	0.150
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Extended	376000	1880	1	23.00	24.00	1.259		1.000	0.01	0.108	0.136
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	376000	1880	1	22.93	24.00	1.279		1.000	-0.13	0.068	0.087
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	376000	1880	1	23.00	24.00	1.259		1.000	0.15	0.046	0.058
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	376000	1880	1	22.93	24.00	1.279		1.000	0.09	0.055	0.070
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	376000	1880	1	23.00	24.00	1.259		1.000	0.05	0.048	0.060
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	376000	1880	1	22.93	24.00	1.279		1.000	0.17	0.107	0.137
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	376000	1880	1	23.00	24.00	1.259		1.000	0.08	0.067	0.084
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	376000	1880	1	22.93	24.00	1.279		1.000	-0.05	0.059	0.075
2600MHz																						
16	LTE Band 7	20M	QPSK	1	0		Right Cheek	0mm	Ant 2	DSI 2	Standard Battery	21100	2535	1	23.95	25.00	1.274		1.000	-0.08	0.325	0.414
	LTE Band 7	20M	QPSK	1	0		Right Cheek	0mm	Ant 2	DSI 2	Standard Battery	21100	2535	2	23.95	25.00	1.274		1.000	0.03	0.304	0.387
	LTE Band 7	20M	QPSK	1	0		Right Cheek	0mm	Ant 2	DSI 2	BLE Beacon	21100	2535	1	23.95	25.00	1.274		1.000	0.09	0.318	0.405
	LTE Band 7	20M	QPSK	1	0		Right Cheek	0mm	Ant 2	DSI 2	Extended	21100	2535	1	23.95	25.00	1.274		1.000	0.01	0.293	0.373
	LTE Band 7	20M	QPSK	50	0		Right Cheek	0mm	Ant 2	DSI 2	Standard Battery	21100	2535	1	22.95	24.00	1.274		1.000	0.06	0.308	0.392
	LTE Band 7	20M	QPSK	1	0		Right Tilted	0mm	Ant 2	DSI 2	Standard Battery	21100	2535	1	23.95	25.00	1.274		1.000	0.01	0.175	0.223



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Table with columns for Band, Modulation, Power, Frequency, SAR values, and Test parameters. Includes rows for LTE Band 7, LTE Band 7C, LTE Band 41, and FR1 bands (n7, n41).



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	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	Extended	518598	2592.99	1	22.12	23.00	1.225	1.000	0.03	0.302	0.370	
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	Standard Battery	518598	2592.99	1	22.18	23.00	1.208	1.000	0.19	0.052	0.063	
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	Standard Battery	518598	2592.99	1	22.12	23.00	1.225	1.000	0.16	0.078	0.096	
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	Standard Battery	518598	2592.99	1	22.18	23.00	1.208	1.000	0.15	0.177	0.214	
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	Standard Battery	518598	2592.99	1	22.12	23.00	1.225	1.000	-0.09	0.185	0.227	
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	Standard Battery	518598	2592.99	1	22.18	23.00	1.208	1.000	0.05	0.077	0.093	
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	Standard Battery	518598	2592.99	1	22.12	23.00	1.225	1.000	0.16	0.088	0.108	
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	Standard Battery	518598	2592.99	1	22.85	24.00	1.303	1.000	0.05	0.107	0.139	
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	Standard Battery	518598	2592.99	1	22.69	24.00	1.352	1.000	0.02	0.070	0.095	
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	Standard Battery	518598	2592.99	1	22.85	24.00	1.303	1.000	-0.04	0.079	0.103	
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	Standard Battery	518598	2592.99	1	22.69	24.00	1.352	1.000	0.11	0.044	0.059	
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	Standard Battery	518598	2592.99	1	22.85	24.00	1.303	1.000	0.03	0.117	0.152	
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	BLE Beacon	518598	2592.99	1	22.85	24.00	1.303	1.000	0.15	0.113	0.147	
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	Extended	518598	2592.99	1	22.85	24.00	1.303	1.000	-0.09	0.102	0.133	
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	Standard Battery	518598	2592.99	1	22.69	24.00	1.352	1.000	0.07	0.077	0.104	
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	Standard Battery	518598	2592.99	1	22.85	24.00	1.303	1.000	-0.14	0.058	0.076	
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	Standard Battery	518598	2592.99	1	22.69	24.00	1.352	1.000	0.18	0.030	0.041	
3500MHz-3900MHz																						
	LTE Band 42	20M	QPSK	1	0		Right Cheek	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	22.81	23.50	1.172	62.9	1.006	0.06	0.394	0.465
	LTE Band 42	20M	QPSK	50	0		Right Cheek	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	21.88	23.00	1.294	62.9	1.006	0.08	0.400	0.521
	LTE Band 42	20M	QPSK	1	0		Right Tilted	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	22.81	23.50	1.172	62.9	1.006	-0.12	0.323	0.381
	LTE Band 42	20M	QPSK	50	0		Right Tilted	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	21.88	23.00	1.294	62.9	1.006	0.01	0.263	0.342
20	LTE Band 42	20M	QPSK	1	0		Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	22.81	23.50	1.172	62.9	1.006	-0.05	0.930	1.097
	LTE Band 42	20M	QPSK	1	0		Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	2	22.81	23.50	1.172	62.9	1.006	0.02	0.824	0.972
	LTE Band 42	20M	QPSK	1	0		Left Cheek	0mm	Ant 5	DSI 2	BLE Beacon	42590	3500	1	22.81	23.50	1.172	62.9	1.006	0.15	0.881	1.039
	LTE Band 42	20M	QPSK	1	0		Left Cheek	0mm	Ant 5	DSI 2	Extended	42590	3500	1	22.81	23.50	1.172	62.9	1.006	-0.09	0.859	1.013
	LTE Band 42	20M	QPSK	1	0		Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	42190	3460	1	22.69	23.50	1.205	62.9	1.006	0.02	0.893	1.083
	LTE Band 42	20M	QPSK	1	0		Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	42990	3540	1	22.62	23.50	1.225	62.9	1.006	-0.04	0.869	1.071
	LTE Band 42	20M	QPSK	50	0		Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	21.88	23.00	1.294	62.9	1.006	-0.08	0.721	0.939
	LTE Band 42	20M	QPSK	50	0		Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	42190	3460	1	21.85	23.00	1.303	62.9	1.006	0.02	0.716	0.939
	LTE Band 42	20M	QPSK	50	0		Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	42990	3540	1	21.82	23.00	1.312	62.9	1.006	0.03	0.706	0.932
	LTE Band 42	20M	QPSK	100	0		Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	21.84	23.00	1.306	62.9	1.006	-0.09	0.772	1.014
	LTE Band 42	20M	QPSK	1	0		Left Tilted	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	22.81	23.50	1.172	62.9	1.006	0.12	0.577	0.680
	LTE Band 42	20M	QPSK	50	0		Left Tilted	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	21.88	23.00	1.294	62.9	1.006	-0.12	0.476	0.620
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Standard Battery	656000	3840	1	19.41	20.30	1.227	1.000	-0.04	0.911	1.118	
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Standard Battery	656000	3840	2	19.41	20.30	1.227	1.000	0.03	0.806	0.989	
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	BLE Beacon	656000	3840	1	19.41	20.30	1.227	1.000	-0.13	0.835	1.025	
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Extended	656000	3840	1	19.41	20.30	1.227	1.000	-0.07	0.896	1.100	
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Standard Battery	656000	3840	1	19.37	20.30	1.239	1.000	0.09	0.896	1.110	
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Standard Battery	656000	3840	1	19.28	20.30	1.265	1.000	0.09	0.868	1.098	
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	Standard Battery	656000	3840	1	19.41	20.30	1.227	1.000	-0.04	0.551	0.676	
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	Standard Battery	656000	3840	1	19.37	20.30	1.239	1.000	0.02	0.551	0.683	
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	Standard Battery	656000	3840	1	19.41	20.30	1.227	1.000	0.02	0.326	0.400	
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	Standard Battery	656000	3840	1	19.37	20.30	1.239	1.000	0.09	0.309	0.383	
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	Standard Battery	656000	3840	1	19.41	20.30	1.227	1.000	0.13	0.302	0.371	
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	Standard Battery	656000	3840	1	19.37	20.30	1.239	1.000	-0.13	0.294	0.364	
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Standard Battery	633334	3500.01	1	18.75	20.30	1.429	1.000	-0.15	0.644	0.920	
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Standard Battery	633334	3500.01	2	18.75	20.30	1.429	1.000	0.02	0.553	0.790	
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	BLE Beacon	633334	3500.01	1	18.75	20.30	1.429	1.000	0.07	0.635	0.907	
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Extended	633334	3500.01	1	18.75	20.30	1.429	1.000	0.06	0.624	0.892	
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Standard Battery	633334	3500.01	1	18.72	20.30	1.439	1.000	0.08	0.629	0.905	
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	Standard Battery	633334	3500.01	1	18.69	20.30	1.449	1.000	-0.02	0.616	0.892	
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	Standard Battery	633334	3500.01	1	18.75	20.30	1.429	1.000	0.03	0.423	0.604	
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	Standard Battery	633334	3500.01	1	18.72	20.30	1.439	1.000	0.07	0.353	0.508	
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	Standard Battery	633334	3500.01	1	18.75	20.30	1.429	1.000	-0.14	0.230	0.329	
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	Standard Battery	633334	3500.01	1	18.72	20.30	1.439	1.000	-0.12	0.212	0.305	



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	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	Standard Battery	633334	3500.01	1	18.75	20.30	1.429		1.000	0.06	0.195	0.279
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	Standard Battery	633334	3500.01	1	18.72	20.30	1.439		1.000	0.07	0.204	0.294
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	656000	3840	1	22.13	23.00	1.222		1.000	-0.11	0.016	0.020
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	656000	3840	1	22.07	23.00	1.239		1.000	-0.06	0.009	0.011
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	656000	3840	1	22.13	23.00	1.222		1.000	0.06	0.052	0.064
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	BLE Beacon	656000	3840	1	22.13	23.00	1.222		1.000	-0.16	0.051	0.062
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	Extended	656000	3840	1	22.13	23.00	1.222		1.000	-0.13	0.045	0.055
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	656000	3840	1	22.07	23.00	1.239		1.000	-0.15	0.024	0.030
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	656000	3840	1	22.13	23.00	1.222		1.000	0.05	0.019	0.023
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	656000	3840	1	22.07	23.00	1.239		1.000	0.07	0.016	0.020
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	656000	3840	1	22.13	23.00	1.222		1.000	-0.16	0.050	0.061
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	656000	3840	1	22.07	23.00	1.239		1.000	-0.13	0.032	0.040
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	633334	3500.01	1	22.18	23.00	1.208		1.000	0.02	0.010	0.012
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	Standard Battery	633334	3500.01	1	22.04	23.00	1.247		1.000	0.01	0.006	0.007
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	633334	3500.01	1	22.18	23.00	1.208		1.000	0.08	0.049	0.059
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	BLE Beacon	633334	3500.01	1	22.18	23.00	1.208		1.000	-0.01	0.044	0.053
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	Standard Battery	633334	3500.01	1	22.04	23.00	1.247		1.000	0.06	0.034	0.042
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	633334	3500.01	1	22.18	23.00	1.208		1.000	-0.01	0.037	0.045
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	Standard Battery	633334	3500.01	1	22.04	23.00	1.247		1.000	0.06	0.041	0.051
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	633334	3500.01	1	22.18	23.00	1.208		1.000	0.05	0.034	0.041
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	Standard Battery	633334	3500.01	1	22.04	23.00	1.247		1.000	-0.06	0.031	0.039
	FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.43	22.20	1.194		1.000	-0.05	0.443	0.529
	FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.38	22.20	1.208		1.000	-0.07	0.429	0.518
	FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.43	22.20	1.194		1.000	0.03	0.405	0.484
	FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.38	22.20	1.208		1.000	0.11	0.321	0.388
	FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.43	22.20	1.194		1.000	0.03	0.920	1.098
21	FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.38	22.20	1.208		1.000	0.15	0.927	1.120
	FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	2	21.38	22.20	1.208		1.000	0.06	0.873	1.054
	FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	BLE Beacon	656000	3840	1	21.38	22.20	1.208		1.000	0.03	0.910	1.099
	FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Extended	656000	3840	1	21.38	22.20	1.208		1.000	0.03	0.903	1.091
	FR1 n77 HPUE Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.35	22.20	1.216		1.000	0.13	0.882	1.073
	FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.43	22.20	1.194		1.000	-0.12	0.655	0.782
	FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.38	22.20	1.208		1.000	0.16	0.640	0.773
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	Standard Battery	633334	3500.01	1	21.32	22.20	1.225		1.000	-0.14	0.316	0.387
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	Standard Battery	633334	3500.01	1	21.28	22.20	1.236		1.000	0.06	0.329	0.407
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	Standard Battery	633334	3500.01	1	21.32	22.20	1.225		1.000	0.08	0.256	0.314
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	Standard Battery	633334	3500.01	1	21.28	22.20	1.236		1.000	0.05	0.273	0.337
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	633334	3500.01	1	21.32	22.20	1.225		1.000	0.03	0.649	0.795
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	633334	3500.01	1	21.28	22.20	1.236		1.000	-0.01	0.655	0.810
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	633334	3500.01	2	21.28	22.20	1.236		1.000	0.04	0.552	0.682
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	BLE Beacon	633334	3500.01	1	21.28	22.20	1.236		1.000	0.03	0.636	0.786
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Extended	633334	3500.01	1	21.28	22.20	1.236		1.000	0.03	0.630	0.779
	FR1 n77 HPUE Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	633334	3500.01	1	21.25	22.20	1.245		1.000	0.05	0.638	0.794
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	Standard Battery	633334	3500.01	1	21.32	22.20	1.225		1.000	0.02	0.440	0.539
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	Standard Battery	633334	3500.01	1	21.28	22.20	1.236		1.000	-0.16	0.475	0.587
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	Standard Battery	656000	3840	1	22.59	23.50	1.233		1.000	0.02	0.645	0.795
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	Standard Battery	656000	3840	1	22.52	23.50	1.253		1.000	0.08	0.625	0.783
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	Standard Battery	656000	3840	1	22.59	23.50	1.233		1.000	0.03	0.777	0.958
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	Standard Battery	656000	3840	1	22.52	23.50	1.253		1.000	0.02	0.752	0.942
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	Standard Battery	656000	3840	1	22.47	23.50	1.268		1.000	0.04	0.749	0.949
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	Standard Battery	656000	3840	1	22.59	23.50	1.233		1.000	0.13	0.763	0.941
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	Standard Battery	656000	3840	1	22.52	23.50	1.253		1.000	0.02	0.742	0.930
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm														



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FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	BLE Beacon	656000	3840	1	22.59	23.50	1.233		1.000	0.03	0.849	1.047
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	Extended	656000	3840	1	22.59	23.50	1.233		1.000	0.03	0.844	1.041
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	Standard Battery	656000	3840	1	22.52	23.50	1.253		1.000	0.08	0.858	1.075
FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	Standard Battery	656000	3840	1	22.47	23.50	1.268		1.000	0.12	0.842	1.067
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.31	23.50	1.315		1.000	-0.17	0.593	0.780
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.27	23.50	1.327		1.000	0.18	0.529	0.702
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.31	23.50	1.315		1.000	0.04	0.657	0.864
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.27	23.50	1.327		1.000	0.17	0.642	0.852
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.22	23.50	1.343		1.000	0.03	0.633	0.850
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.31	23.50	1.315		1.000	-0.07	0.684	0.900
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.27	23.50	1.327		1.000	0.07	0.671	0.891
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.22	23.50	1.343		1.000	0.02	0.666	0.894
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.31	23.50	1.315		1.000	0.01	0.732	0.963
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	2	22.31	23.50	1.315		1.000	0.04	0.650	0.855
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	BLE Beacon	633334	3500.01	1	22.31	23.50	1.315		1.000	-0.03	0.669	0.880
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	Extended	633334	3500.01	1	22.31	23.50	1.315		1.000	-0.03	0.702	0.923
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.27	23.50	1.327		1.000	-0.03	0.712	0.945
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	Standard Battery	633334	3500.01	1	22.22	23.50	1.343		1.000	0.06	0.709	0.952



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Battery	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
WLAN/BT																			
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 8	Full power	Standard Battery	6	2437	1	20.90	21.00	1.023	98.28	1.018	0.03	0.131	0.136	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 8	Full power	Standard Battery	6	2437	1	20.90	21.00	1.023	98.28	1.018	0.02	0.061	0.064	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Full power	Standard Battery	6	2437	1	20.90	21.00	1.023	98.28	1.018	0.05	0.340	0.354	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Full power	Standard Battery	6	2437	2	20.90	21.00	1.023	98.28	1.018	0.04	0.240	0.250	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Full power	BLE Beacon	6	2437	1	20.90	21.00	1.023	98.28	1.018	0.03	0.321	0.334	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Full power	Extended	6	2437	1	20.90	21.00	1.023	98.28	1.018	0.01	0.309	0.322	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	Full power	Standard Battery	6	2437	1	20.90	21.00	1.023	98.28	1.018	0.02	0.071	0.074	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 8	Simultaneous DBS	Standard Battery	6	2437	1	18.30	18.50	1.047	98.28	1.018	0.02	0.056	0.060	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 8	Simultaneous DBS	Standard Battery	6	2437	1	18.30	18.50	1.047	98.28	1.018	0.01	0.026	0.028	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Simultaneous DBS	Standard Battery	6	2437	1	18.30	18.50	1.047	98.28	1.018	0.03	0.146	0.156	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	Simultaneous DBS	Standard Battery	6	2437	1	18.30	18.50	1.047	98.28	1.018	0.09	0.030	0.032	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+8(7)	Standalone Non DBS	Standard Battery	11	2462	1	19.40	19.50	1.023	98.28	1.018	0.02	0.539	0.561	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7+8(7)	Standalone Non DBS	Standard Battery	11	2462	1	19.40	19.50	1.023	98.28	1.018	0.04	0.577	0.601	
22	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Standalone Non DBS	Standard Battery	11	2462	1	19.40	19.50	1.023	98.28	1.018	0.06	1.190	1.240	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Standalone Non DBS	Standard Battery	11	2462	2	19.40	19.50	1.023	98.28	1.018	0.02	0.981	1.022	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Standalone Non DBS	BLE Beacon	11	2462	1	19.40	19.50	1.023	98.28	1.018	0.08	1.060	1.104	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Standalone Non DBS	Extended	11	2462	1	19.40	19.50	1.023	98.28	1.018	0.01	1.070	1.115	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Standalone Non DBS	Standard Battery	6	2437	1	19.00	19.50	1.122	98.28	1.018	0.05	1.040	1.188	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Standalone Non DBS	Standard Battery	1	2412	1	19.00	19.50	1.122	98.28	1.018	0.02	1.020	1.165	
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 7+8(7)	Standalone Non DBS	Standard Battery	3	2422	1	19.02	19.50	1.117	100	1.000	0.01	1.050	1.173	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7+8(7)	Standalone Non DBS	Standard Battery	11	2462	1	19.40	19.50	1.023	98.28	1.018	0.03	0.784	0.817	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7+8(7)	Standalone Non DBS	Standard Battery	6	2437	1	19.00	19.50	1.122	98.28	1.018	0.04	0.774	0.884	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+8(7)	Standalone DBS	Standard Battery	11	2462	1	15.90	16.00	1.023	98.28	1.018	-0.02	0.232	0.242	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7+8(7)	Standalone DBS	Standard Battery	11	2462	1	15.90	16.00	1.023	98.28	1.018	-0.01	0.249	0.259	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Standalone DBS	Standard Battery	11	2462	1	15.90	16.00	1.023	98.28	1.018	0.03	0.513	0.534	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7+8(7)	Standalone DBS	Standard Battery	11	2462	1	15.90	16.00	1.023	98.28	1.018	0.01	0.338	0.352	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	11	2462	1	13.80	14.00	1.047	98.28	1.018	0.03	0.154	0.164	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	11	2462	1	13.80	14.00	1.047	98.28	1.018	0.02	0.165	0.176	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	11	2462	1	13.80	14.00	1.047	98.28	1.018	0.06	0.340	0.362	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	11	2462	1	13.80	14.00	1.047	98.28	1.018	0.01	0.224	0.239	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	11	2462	1	10.88	11.00	1.028	98.28	1.018	-0.03	0.072	0.075	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	11	2462	1	10.88	11.00	1.028	98.28	1.018	0.09	0.077	0.081	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	11	2462	1	10.88	11.00	1.028	98.28	1.018	0.01	0.159	0.166	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	11	2462	1	10.88	11.00	1.028	98.28	1.018	0.09	0.104	0.109	
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7	Full power	Standard Battery	78	2480	1	3.27	4.00	1.183	76.86	1.084	0.04	0.009	0.012	
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 7	Full power	Standard Battery	78	2480	1	3.27	4.00	1.183	76.86	1.084	-0.02	0.006	0.008	
23	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Full power	Standard Battery	78	2480	1	3.27	4.00	1.183	76.86	1.084	-0.09	0.017	0.022	
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Full power	Standard Battery	78	2480	2	3.27	4.00	1.183	76.86	1.084	0.01	0.011	0.014	
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Full power	BLE Beacon	78	2480	1	3.27	4.00	1.183	76.86	1.084	0.03	0.012	0.015	
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Full power	Extended	78	2480	1	3.27	4.00	1.183	76.86	1.084	0.06	0.011	0.014	
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 7	Full power	Standard Battery	78	2480	1	3.27	4.00	1.183	76.86	1.084	0.01	0.010	0.013	
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 7+8(8)	Full power	Standard Battery	54	5270	1	19.80	20.00	1.047	100	1.000	0.03	0.369	0.386	
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 7+8(8)	Full power	Standard Battery	54	5270	1	19.80	20.00	1.047	100	1.000	0.01	0.363	0.380	
24	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 7+8(8)	Full power	Standard Battery	54	5270	1	19.80	20.00	1.047	100	1.000	-0.01	0.625	0.654	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 7+8(8)	Full power	Standard Battery	54	5270	2	19.80	20.00	1.047	100	1.000	0.04	0.600	0.628	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 7+8(8)	Full power	BLE Beacon	54	5270	1	19.80	20.00	1.047	100	1.000	0.02	0.613	0.642	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 7+8(8)	Full power	Extended	54	5270	1	19.80	20.00	1.047	100	1.000	0.01	0.602	0.630	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 7+8(8)	Full power	Standard Battery	54	5270	1	19.80	20.00	1.047	100	1.000	0.05	0.476	0.498	
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 7+8(7)	Standalone DBS	Standard Battery	54	5270	1	19.34	19.50	1.038	100	1.000	0.04	0.306	0.317	
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 7+8(7)	Standalone DBS	Standard Battery	54	5270	1	19.34	19.50	1.038	100	1.000	-0.02	0.301	0.312	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 7+8(7)	Standalone DBS	Standard Battery	54	5270	1	19.34	19.50	1.038	100	1.000	-0.01	0.518	0.537	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 7+8(7)	Standalone DBS	Standard Battery	54	5270	1	19.34	19.50	1.038	100	1.000	0.03	0.395	0.410	



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Table with columns: Frequency, Power, Location, Antenna, Modulation, Power Class, SAR (Head), SAR (Chest), SAR (Hand), SAR (Foot), SAR (Other). Includes rows for WLAN5.3GHz and WLAN5.8GHz tests.



15.2 Hotspot SAR

Table with 21 columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Power State, Battery, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measured 1g SAR (W/kg), Reported 1g SAR (W/kg). Rows are grouped by frequency bands (750MHz, LTE Band 13, LTE Band 17, FR1 n71).



835MHz																						
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 0	DSI 1	Standard Battery	189	836.4	1	26.54	27.50	1.247	-	1.000	0.02	0.525	0.655
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 0	DSI 1	Standard Battery	189	836.4	1	26.54	27.50	1.247	-	1.000	0.03	0.493	0.615
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 0	DSI 1	Standard Battery	189	836.4	1	26.54	27.50	1.247	-	1.000	0.08	0.230	0.287
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	10mm	Ant 0	DSI 1	Standard Battery	189	836.4	1	26.54	27.50	1.247	-	1.000	0.04	0.223	0.278
31	GSM850	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 0	DSI 1	Standard Battery	189	836.4	1	26.54	27.50	1.247	-	1.000	-0.08	0.529	0.660
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 0	DSI 1	Standard Battery	189	836.4	2	26.54	27.50	1.247	-	1.000	0.02	0.444	0.554
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 0	DSI 1	BLE Beacon	189	836.4	1	26.54	27.50	1.247	-	1.000	0.07	0.448	0.559
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 0	DSI 1	Extended	189	836.4	1	26.54	27.50	1.247	-	1.000	0.08	0.467	0.583
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 1	Standard Battery	4182	836.4	1	24.23	25.00	1.194	-	1.000	0.05	0.190	0.227
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 1	Standard Battery	4182	836.4	1	24.23	25.00	1.194	-	1.000	0.03	0.377	0.450
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	DSI 1	Standard Battery	4182	836.4	1	24.23	25.00	1.194	-	1.000	0.01	0.196	0.234
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI 1	Standard Battery	4182	836.4	1	24.23	25.00	1.194	-	1.000	0.08	0.159	0.190
32	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 0	DSI 1	Standard Battery	4182	836.4	1	24.23	25.00	1.194	-	1.000	-0.11	0.408	0.487
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 0	DSI 1	Standard Battery	4182	836.4	2	24.23	25.00	1.194	-	1.000	0.02	0.328	0.392
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 0	DSI 1	BLE Beacon	4182	836.4	1	24.23	25.00	1.194	-	1.000	0.07	0.383	0.457
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 0	DSI 1	Extended	4182	836.4	1	24.23	25.00	1.194	-	1.000	0.08	0.370	0.442
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	1	23.05	24.00	1.245	-	1.000	0.03	0.138	0.172
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	1	22.10	23.00	1.230	-	1.000	0.02	0.120	0.148
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	1	23.05	24.00	1.245	-	1.000	0.08	0.175	0.218
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	1	22.10	23.00	1.230	-	1.000	0.01	0.143	0.176
	LTE Band 5	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	1	23.05	24.00	1.245	-	1.000	0.06	0.140	0.174
	LTE Band 5	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	1	22.10	23.00	1.230	-	1.000	-0.12	0.114	0.140
	LTE Band 5	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	1	23.05	24.00	1.245	-	1.000	-0.13	0.126	0.157
	LTE Band 5	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	1	22.10	23.00	1.230	-	1.000	0.05	0.110	0.135
33	LTE Band 5	10M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	1	23.05	24.00	1.245	-	1.000	-0.06	0.313	0.390
	LTE Band 5	10M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	2	23.05	24.00	1.245	-	1.000	0.02	0.271	0.337
	LTE Band 5	10M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI 1	BLE Beacon	20525	836.5	1	23.05	24.00	1.245	-	1.000	0.07	0.256	0.319
	LTE Band 5	10M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI 1	Extended	20525	836.5	1	23.05	24.00	1.245	-	1.000	0.08	0.209	0.260
	LTE Band 5	10M	QPSK	25	0	-	Top Side	10mm	Ant 0	DSI 1	Standard Battery	20525	836.5	1	22.10	23.00	1.230	-	1.000	-0.04	0.266	0.327
	LTE Band 5B	10M	QPSK	1	49	-	Top Side	10mm	Ant 0	DSI 1	Standard Battery	20476+20575	831.6+841.5	1	22.83	24.00	1.309	-	1.000	0.02	0.285	0.373
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	1	23.37	24.00	1.156	-	1.000	0.02	0.265	0.306
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	1	23.34	24.00	1.164	-	1.000	0.05	0.220	0.256
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	1	23.37	24.00	1.156	-	1.000	0.09	0.276	0.319
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	1	23.34	24.00	1.164	-	1.000	0.01	0.212	0.247
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	1	23.37	24.00	1.156	-	1.000	0.03	0.124	0.143
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	1	23.34	24.00	1.164	-	1.000	0.07	0.091	0.106
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	1	23.37	24.00	1.156	-	1.000	0.02	0.117	0.135
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	1	23.34	24.00	1.164	-	1.000	0.04	0.089	0.104
34	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	1	23.37	24.00	1.156	-	1.000	-0.05	0.309	0.357
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	2	23.37	24.00	1.156	-	1.000	0.02	0.294	0.340
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 1	BLE Beacon	167300	836.5	1	23.37	24.00	1.156	-	1.000	0.07	0.231	0.267
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 1	Extended	167300	836.5	1	23.37	24.00	1.156	-	1.000	0.08	0.253	0.292
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 1	Standard Battery	167300	836.5	1	23.34	24.00	1.164	-	1.000	0.09	0.244	0.284
1750MHz																						
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 1	Standard Battery	1413	1732.6	1	21.86	22.70	1.213	-	1.000	0.03	0.465	0.564
35	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Standard Battery	1413	1732.6	1	21.86	22.70	1.213	-	1.000	-0.04	1.030	1.250
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	BLE Beacon	1413	1732.6	1	21.86	22.70	1.213	-	1.000	0.07	0.923	1.120
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Extended	1413	1732.6	1	21.86	22.70	1.213	-	1.000	0.08	0.906	1.099
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Standard Battery	1312	1712.4	1	21.68	22.70	1.265	-	1.000	0.08	0.914	1.156
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Standard Battery	1513	1752.6	1	21.76	22.70	1.242	-	1.000	0.04	0.964	1.197
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 1	Standard Battery	1413	1732.6	1	21.86	22.70	1.213	-	1.000	0.03	0.090	0.109
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	DSI 1	Standard Battery	1413	1732.6	1	21.86	22.70	1.213	-	1.000	0.08	0.169	0.205
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	1413	1732.6	1	21.86	22.70	1.213	-	1.000	-0.1	0.856	1.039
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	1312	1712.4	1	21.68	22.70	1.265	-	1.000	-0.05	0.724	0.916
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	1513	1752.6	1	21.76	22.70	1.242	-	1.000	-0.08	0.864	1.073



FCC SAR Test Report

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	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	22.69	24.00	1.352	-	1.000	0.08	0.395	0.534
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	21.76	23.00	1.330	-	1.000	0.06	0.323	0.430
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	22.69	24.00	1.352	-	1.000	0.04	0.839	1.134
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 1	Standard Battery	132072	1720	1	22.64	24.00	1.368	-	1.000	0.02	0.759	1.038
36	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 1	Standard Battery	132572	1770	1	22.59	24.00	1.384	-	1.000	-0.09	0.861	1.191
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 1	BLE Beacon	132572	1770	1	22.59	24.00	1.384	-	1.000	0.07	0.627	0.867
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 1	Extended	132572	1770	1	22.59	24.00	1.384	-	1.000	0.08	0.515	0.713
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	21.76	23.00	1.330	-	1.000	0.01	0.700	0.931
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 1	Standard Battery	132072	1720	1	21.69	23.00	1.352	-	1.000	0.06	0.633	0.856
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 1	Standard Battery	132572	1770	1	21.61	23.00	1.377	-	1.000	-0.12	0.690	0.950
	LTE Band 66	20M	QPSK	100	0	-	Back	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	21.70	23.00	1.349	-	1.000	-0.13	0.691	0.932
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	22.69	24.00	1.352	-	1.000	0.05	0.077	0.104
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	21.76	23.00	1.330	-	1.000	-0.06	0.064	0.085
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	22.69	24.00	1.352	-	1.000	-0.04	0.128	0.173
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	21.76	23.00	1.330	-	1.000	0.05	0.110	0.146
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	22.69	24.00	1.352	-	1.000	0.03	0.685	0.926
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	132072	1720	1	22.64	24.00	1.368	-	1.000	0.01	0.580	0.793
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	132572	1770	1	22.59	24.00	1.384	-	1.000	0.08	0.705	0.975
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	21.76	23.00	1.330	-	1.000	-0.11	0.558	0.742
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	132322	1745	1	21.70	23.00	1.349	-	1.000	-0.08	0.568	0.766
	LTE Band 66C	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 1	Standard Battery	132572+132374	1770+1750.2	1	22.42	24.00	1.439	-	1.000	0.03	0.823	1.184
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	23.27	24.00	1.183	-	1.000	0.04	0.318	0.376
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	23.23	24.00	1.194	-	1.000	-0.08	0.356	0.425
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	23.27	24.00	1.183	-	1.000	0.05	0.790	0.935
37	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	23.23	24.00	1.194	-	1.000	-0.02	0.832	0.993
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 1	BLE Beacon	349000	1745	1	23.23	24.00	1.194	-	1.000	0.07	0.780	0.931
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 1	Extended	349000	1745	1	23.23	24.00	1.194	-	1.000	0.08	0.742	0.886
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	22.18	23.00	1.208	-	1.000	0.07	0.544	0.657
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	23.27	24.00	1.183	-	1.000	0.02	0.071	0.084
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	23.23	24.00	1.194	-	1.000	0.04	0.071	0.085
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	23.27	24.00	1.183	-	1.000	-0.05	0.105	0.124
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	23.23	24.00	1.194	-	1.000	0.06	0.117	0.140
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	23.27	24.00	1.183	-	1.000	0.04	0.542	0.641
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	349000	1745	1	23.23	24.00	1.194	-	1.000	0.04	0.605	0.722
1900MHz																						
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 2	DSI 1	Standard Battery	661	1880	1	23.97	25.00	1.268	-	1.000	0.03	0.103	0.131
38	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 2	DSI 1	Standard Battery	661	1880	1	23.97	25.00	1.268	-	1.000	0.08	0.232	0.294
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 2	DSI 1	Standard Battery	661	1880	2	23.97	25.00	1.268	-	1.000	0.01	0.226	0.286
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 2	DSI 1	BLE Beacon	661	1880	1	23.97	25.00	1.268	-	1.000	0.07	0.178	0.226
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 2	DSI 1	Extended	661	1880	1	23.97	25.00	1.268	-	1.000	0.08	0.190	0.241
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 2	DSI 1	Standard Battery	661	1880	1	23.97	25.00	1.268	-	1.000	0.05	0.217	0.275
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Side	10mm	Ant 2	DSI 1	Standard Battery	661	1880	1	23.97	25.00	1.268	-	1.000	0.09	0.010	0.013
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 2	DSI 1	Standard Battery	661	1880	1	23.97	25.00	1.268	-	1.000	0.01	0.079	0.100
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 1	Standard Battery	9400	1880	1	22.90	23.50	1.148	-	1.000	0.06	0.461	0.529
39	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Standard Battery	9400	1880	1	22.90	23.50	1.148	-	1.000	-0.08	0.993	1.140
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	BLE Beacon	9400	1880	1	22.90	23.50	1.148	-	1.000	-0.05	0.817	0.938
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Extended	9400	1880	1	22.90	23.50	1.148	-	1.000	0.06	0.808	0.928
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Standard Battery	9262	1852.4	1	22.82	23.50	1.169	-	1.000	0.04	0.918	1.074
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Standard Battery	9538	1907.6	1	22.74	23.50	1.191	-	1.000	-0.05	0.909	1.083
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 1	Standard Battery	9400	1880	1	22.90	23.50	1.148	-	1.000	0.06	0.118	0.135
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	DSI 1	Standard Battery	9400	1880	1	22.90	23.50	1.148	-	1.000	0.04	0.175	0.201
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	9400	1880	1	22.90	23.50	1.148	-	1.000	0.04	0.871	1.000
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	9262	1852.4	1	22.82	23.50	1.169	-	1.000	0.02	0.802	0.938
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	9538	1907.6	1	22.74	23.50	1.191	-	1.000	-0.09	0.824	0.982
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 1	Standard Battery	18900	1880	1	22.49	24.00	1.416	-	1.000	0.06	0.405	0.573
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 1	Standard Battery	18900	1880	1	21.61	23.00	1.377	-	1.000	0.01	0.331	0.456



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Table with columns for Band, Modulation, Power, Frequency, Location, Antenna, etc. Includes rows for LTE Band 2 and FR1 n2, with a 2600MHz section. Some cells are highlighted in yellow.



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Table with columns: Band, Modulation, Power, etc. Includes rows for LTE Bands 7, 7C, 41, and FR1 n7, n41.



FCC SAR Test Report

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Table with columns for device ID, power, modulation, frequency, time, location, antenna, SAR value, and battery type. Includes a section for 3500MHz-3900MHz and LTE Band 42 tests.



FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 0	DSI 1	Standard Battery	656000	3840	1	21.26	22.00	1.186	-	1.000	0.13	0.211	0.250
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 1	Standard Battery	656000	3840	1	21.36	22.00	1.159	-	1.000	0.02	0.425	0.492
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 1	Standard Battery	656000	3840	1	21.26	22.00	1.186	-	1.000	0.03	0.500	0.593
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 1	Standard Battery	656000	3840	2	21.26	22.00	1.186	-	1.000	0.01	0.437	0.518
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 1	BLE Beacon	656000	3840	1	21.26	22.00	1.186	-	1.000	0.05	0.442	0.524
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 1	Extended	656000	3840	1	21.26	22.00	1.186	-	1.000	0.05	0.434	0.515
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 0	DSI 1	Standard Battery	656000	3840	1	21.36	22.00	1.159	-	1.000	0.06	0.257	0.298
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 0	DSI 1	Standard Battery	656000	3840	1	21.26	22.00	1.186	-	1.000	-0.19	0.308	0.365
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 0	DSI 1	Standard Battery	656000	3840	1	21.36	22.00	1.159	-	1.000	0.14	0.037	0.043
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 0	DSI 1	Standard Battery	656000	3840	1	21.26	22.00	1.186	-	1.000	0.06	0.042	0.050
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 0	DSI 1	Standard Battery	656000	3840	1	21.36	22.00	1.159	-	1.000	-0.14	0.259	0.300
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 0	DSI 1	Standard Battery	656000	3840	1	21.26	22.00	1.186	-	1.000	-0.1	0.298	0.353
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 0	DSI 1	Standard Battery	633334	3500.01	1	20.76	22.00	1.330	-	1.000	0.04	0.166	0.221
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 0	DSI 1	Standard Battery	633334	3500.01	1	20.72	22.00	1.343	-	1.000	0.05	0.145	0.195
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 1	Standard Battery	633334	3500.01	1	20.76	22.00	1.330	-	1.000	0.01	0.489	0.651
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 1	BLE Beacon	633334	3500.01	1	20.76	22.00	1.330	-	1.000	-0.08	0.392	0.522
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 1	Extended	633334	3500.01	1	20.76	22.00	1.330	-	1.000	-0.08	0.374	0.498
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 1	Standard Battery	633334	3500.01	1	20.72	22.00	1.343	-	1.000	0.07	0.416	0.559
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 0	DSI 1	Standard Battery	633334	3500.01	1	20.76	22.00	1.330	-	1.000	-0.13	0.226	0.301
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 0	DSI 1	Standard Battery	633334	3500.01	1	20.72	22.00	1.343	-	1.000	-0.06	0.213	0.286
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 0	DSI 1	Standard Battery	633334	3500.01	1	20.76	22.00	1.330	-	1.000	0.12	0.030	0.040
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 0	DSI 1	Standard Battery	633334	3500.01	1	20.72	22.00	1.343	-	1.000	-0.13	0.028	0.038
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 0	DSI 1	Standard Battery	633334	3500.01	1	20.76	22.00	1.330	-	1.000	0.05	0.232	0.309
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 0	DSI 1	Standard Battery	633334	3500.01	1	20.72	22.00	1.343	-	1.000	-0.17	0.175	0.235
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 1	Standard Battery	656000	3840	1	22.13	23.00	1.222	-	1.000	0.09	0.235	0.287
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 1	Standard Battery	656000	3840	1	22.07	23.00	1.239	-	1.000	-0.16	0.250	0.310
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 1	Standard Battery	656000	3840	1	22.13	23.00	1.222	-	1.000	0.1	0.480	0.586
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 1	Standard Battery	656000	3840	1	22.07	23.00	1.239	-	1.000	0.03	0.483	0.598
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 1	BLE Beacon	656000	3840	1	22.07	23.00	1.239	-	1.000	0.16	0.441	0.546
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 1	Extended	656000	3840	1	22.07	23.00	1.239	-	1.000	0.16	0.432	0.535
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 1	Standard Battery	656000	3840	1	22.13	23.00	1.222	-	1.000	0.09	0.192	0.235
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 1	Standard Battery	656000	3840	1	22.07	23.00	1.239	-	1.000	-0.04	0.144	0.178
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 1	DSI 1	Standard Battery	656000	3840	1	22.13	23.00	1.222	-	1.000	0.04	0.158	0.193
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 1	DSI 1	Standard Battery	656000	3840	1	22.07	23.00	1.239	-	1.000	0.15	0.163	0.202
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	656000	3840	1	22.13	23.00	1.222	-	1.000	-0.15	0.057	0.070
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	656000	3840	1	22.07	23.00	1.239	-	1.000	-0.15	0.061	0.076
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 1	Standard Battery	633334	3500.01	1	22.18	23.00	1.208	-	1.000	-0.17	0.295	0.356
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 1	Standard Battery	633334	3500.01	1	22.04	23.00	1.247	-	1.000	-0.13	0.254	0.317
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 1	Standard Battery	633334	3500.01	1	22.18	23.00	1.208	-	1.000	-0.09	0.579	0.699
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 1	BLE Beacon	633334	3500.01	1	22.18	23.00	1.208	-	1.000	-0.16	0.532	0.643
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 1	Extended	633334	3500.01	1	22.18	23.00	1.208	-	1.000	-0.16	0.520	0.628
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 1	Standard Battery	633334	3500.01	1	22.04	23.00	1.247	-	1.000	0.04	0.443	0.553
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 1	Standard Battery	633334	3500.01	1	22.18	23.00	1.208	-	1.000	-0.15	0.272	0.329
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 1	Standard Battery	633334	3500.01	1	22.04	23.00	1.247	-	1.000	-0.14	0.236	0.294
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 1	DSI 1	Standard Battery	633334	3500.01	1	22.18	23.00	1.208	-	1.000	-0.05	0.225	0.272
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 1	DSI 1	Standard Battery	633334	3500.01	1	22.04	23.00	1.247	-	1.000	0.04	0.295	0.368
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	633334	3500.01	1	22.18	23.00	1.208	-	1.000	0.13	0.219	0.265
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 1	DSI 1	Standard Battery	633334	3500.01	1	22.04	23.00	1.247	-	1.000	0.06	0.189	0.236
FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	1	18.97	19.90	1.239	-	1.000	0.06	0.181	0.224
FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	1	18.90	19.90	1.259	-	1.000	-0.13	0.175	0.220
FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	1	18.97	19.90	1.239	-	1.000	0.12	0.629	0.779
FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	1	18.90	19.90	1.259	-	1.000	-0.13	0.640	0.806
FR1 n77 HPUE Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	1	18.81	19.90	1.285	-	1.000	0.05	0.616	0.792
FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	1	18.97	19.90	1.239	-	1.000	-0.07	0.897	1.111
FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	2	18.97	19.90	1.239	-	1.000	0.01	0.736	0.912



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FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	BLE Beacon	656000	3840	1	18.97	19.90	1.239	-	1.000	0.07	0.867	1.074
FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	Extended	656000	3840	1	18.97	19.90	1.239	-	1.000	0.06	0.854	1.058
FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	1	18.90	19.90	1.259	-	1.000	-0.13	0.875	1.102
FR1 n77 HPUE Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	1	18.81	19.90	1.285	-	1.000	-0.06	0.853	1.096
FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	1	18.97	19.90	1.239	-	1.000	0.07	0.185	0.229
FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 1	Standard Battery	656000	3840	1	18.90	19.90	1.259	-	1.000	0.07	0.138	0.174
FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	1	19.02	19.90	1.225	-	1.000	-0.15	0.122	0.149
FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	1	18.98	19.90	1.236	-	1.000	-0.01	0.129	0.159
FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	1	19.02	19.90	1.225	-	1.000	-0.01	0.715	0.876
FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	1	18.98	19.90	1.236	-	1.000	-0.04	0.632	0.781
FR1 n77 HPUE Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	1	18.88	19.90	1.265	-	1.000	0.04	0.685	0.866
FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	1	19.02	19.90	1.225	-	1.000	-0.01	0.732	0.896
FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	2	19.02	19.90	1.225	-	1.000	0.03	0.650	0.796
FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	BLE Beacon	633334	3500.01	1	19.02	19.90	1.225	-	1.000	-0.04	0.729	0.893
FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	Extended	633334	3500.01	1	19.02	19.90	1.225	-	1.000	0.04	0.723	0.885
FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	1	18.98	19.90	1.236	-	1.000	0.15	0.704	0.870
FR1 n77 HPUE Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	1	18.88	19.90	1.265	-	1.000	-0.15	0.670	0.847
FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	1	19.02	19.90	1.225	-	1.000	-0.15	0.092	0.113
FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 1	Standard Battery	633334	3500.01	1	18.98	19.90	1.236	-	1.000	-0.04	0.097	0.120
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 1	Standard Battery	656000	3840	1	22.59	23.20	1.151	-	1.000	0.05	0.086	0.099
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 1	Standard Battery	656000	3840	1	22.52	23.20	1.169	-	1.000	0.09	0.075	0.088
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	Standard Battery	656000	3840	1	22.59	23.20	1.151	-	1.000	-0.11	0.766	0.882
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	Standard Battery	656000	3840	1	22.52	23.20	1.169	-	1.000	0.06	0.812	0.950
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	Standard Battery	656000	3840	2	22.52	23.20	1.169	-	1.000	0.01	0.701	0.820
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	BLE Beacon	656000	3840	1	22.52	23.20	1.169	-	1.000	0.03	0.796	0.931
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	Extended	656000	3840	1	22.52	23.20	1.169	-	1.000	0.03	0.771	0.902
FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	Standard Battery	656000	3840	1	22.49	23.20	1.178	-	1.000	0.04	0.788	0.928
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI 1	Standard Battery	656000	3840	1	22.59	23.20	1.151	-	1.000	0.17	0.071	0.082
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI 1	Standard Battery	656000	3840	1	22.52	23.20	1.169	-	1.000	-0.03	0.048	0.056
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 1	Standard Battery	656000	3840	1	22.59	23.20	1.151	-	1.000	0.03	0.522	0.601
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 1	Standard Battery	656000	3840	1	22.52	23.20	1.169	-	1.000	0.06	0.564	0.660
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 1	Standard Battery	633334	3500.01	1	22.21	23.20	1.256	-	1.000	-0.17	0.066	0.083
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 1	Standard Battery	633334	3500.01	1	22.18	23.20	1.265	-	1.000	0.01	0.048	0.061
47 FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	Standard Battery	633334	3500.01	1	22.21	23.20	1.256	-	1.000	0.06	0.892	1.120
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	Standard Battery	633334	3500.01	2	22.21	23.20	1.256	-	1.000	0.03	0.774	0.972
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	BLE Beacon	633334	3500.01	1	22.21	23.20	1.256	-	1.000	0.16	0.768	0.965
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	Extended	633334	3500.01	1	22.21	23.20	1.256	-	1.000	0.16	0.744	0.934
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	Standard Battery	633334	3500.01	1	22.18	23.20	1.265	-	1.000	0.02	0.854	1.080
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 1	Standard Battery	633334	3500.01	1	22.09	23.20	1.291	-	1.000	0.02	0.816	1.054
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI 1	Standard Battery	633334	3500.01	1	22.21	23.20	1.256	-	1.000	0.07	0.078	0.098
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI 1	Standard Battery	633334	3500.01	1	22.18	23.20	1.265	-	1.000	-0.13	0.046	0.058
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 1	Standard Battery	633334	3500.01	1	22.21	23.20	1.256	-	1.000	-0.02	0.346	0.435
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 1	Standard Battery	633334	3500.01	1	22.18	23.20	1.265	-	1.000	0.04	0.261	0.330



Table with columns: Plot No., Band, Mode, Test Position, Gap (mm), Antenna, Power State, Battery, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measured 1g SAR (W/kg), Reported 1g SAR (W/kg). Includes rows for WLAN2.4GHz and Bluetooth tests.



FCC SAR Test Report

Report No. : FA311601

	Bluetooth	1Mbps	Right Side	10mm	Ant 7	Full power	BLE Beacon	78	2480	1	3.27	4.00	1.183	76.86	1.084	0.03	0.001	0.001
	Bluetooth	1Mbps	Right Side	10mm	Ant 7	Full power	Extended	78	2480	1	3.27	4.00	1.183	76.86	1.084	0.06	0.003	0.004
	Bluetooth	1Mbps	Top Side	10mm	Ant 7	Full power	Standard Battery	78	2480	1	3.27	4.00	1.183	76.86	1.084	0.02	0.001	0.001
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10mm	Ant 7+8(7)	Down power	Standard Battery	46	5230	1	18.25	18.50	1.059	100	1.000	0.03	0.221	0.234
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant 7+8(7)	Down power	Standard Battery	46	5230	1	18.25	18.50	1.059	100	1.000	0.01	0.885	0.937
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant 7+8(8)	Down power	Standard Battery	38	5190	1	17.01	17.50	1.119	100	1.000	0.09	0.562	0.629
	WLAN5.2GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 7+8(7)	Down power	Standard Battery	46	5230	1	18.25	18.50	1.059	100	1.000	0.02	0.044	0.047
50	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 7+8(7)	Down power	Standard Battery	46	5230	1	18.25	18.50	1.059	100	1.000	-0.07	1.220	1.292
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 7+8(7)	Down power	Standard Battery	46	5230	2	18.25	18.50	1.059	100	1.000	0.03	1.160	1.229
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 7+8(7)	Down power	BLE Beacon	46	5230	1	18.25	18.50	1.059	100	1.000	0.09	1.030	1.091
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 7+8(7)	Down power	Extended	46	5230	1	18.25	18.50	1.059	100	1.000	0.03	1.100	1.165
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 7+8(8)	Down power	Standard Battery	38	5190	1	17.01	17.50	1.119	100	1.000	0.01	0.856	0.958
	WLAN5.2GHz	802.11a 6Mbps	Right Side	10mm	Ant 7+8(8)	Down power	Standard Battery	36	5180	1	18.31	18.50	1.045	99.05	1.010	0.02	1.060	1.118
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 7+8(7)	Down power	Standard Battery	46	5230	1	18.25	18.50	1.059	100	1.000	0.05	0.631	0.668
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 7+8(7)	Standalone DBS	Standard Battery	42	5210	1	15.22	15.50	1.067	100	1.000	0.09	0.108	0.115
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Standalone DBS	Standard Battery	42	5210	1	15.22	15.50	1.067	100	1.000	0.07	0.433	0.462
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 7+8(7)	Standalone DBS	Standard Battery	42	5210	1	15.22	15.50	1.067	100	1.000	-0.13	0.022	0.023
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 7+8(7)	Standalone DBS	Standard Battery	42	5210	1	15.22	15.50	1.067	100	1.000	-0.02	0.577	0.615
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 7+8(7)	Standalone DBS	Standard Battery	42	5210	1	15.22	15.50	1.067	100	1.000	0.17	0.309	0.330
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	42	5210	1	13.26	13.50	1.057	100	1.000	-0.03	0.063	0.067
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	42	5210	1	13.26	13.50	1.057	100	1.000	-0.01	0.251	0.265
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	42	5210	1	13.26	13.50	1.057	100	1.000	0.03	0.012	0.013
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	42	5210	1	13.26	13.50	1.057	100	1.000	0.03	0.334	0.353
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	42	5210	1	13.26	13.50	1.057	100	1.000	0.07	0.179	0.189
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	42	5210	1	10.29	10.50	1.050	100	1.000	-0.13	0.031	0.033
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	42	5210	1	10.29	10.50	1.050	100	1.000	-0.02	0.123	0.129
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	42	5210	1	10.29	10.50	1.050	100	1.000	0.17	0.006	0.006
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	42	5210	1	10.29	10.50	1.050	100	1.000	-0.03	0.164	0.172
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	42	5210	1	10.29	10.50	1.050	100	1.000	-0.01	0.088	0.092
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 7+8(7)	Down power	Standard Battery	155	5775	1	17.32	17.50	1.042	100	1.000	-0.13	0.221	0.230
51	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Down power	Standard Battery	155	5775	1	17.32	17.50	1.042	100	1.000	-0.05	1.280	1.334
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Down power	Standard Battery	155	5775	2	17.32	17.50	1.042	100	1.000	0.03	1.170	1.220
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Down power	BLE Beacon	155	5775	1	17.32	17.50	1.042	100	1.000	0.09	1.150	1.199
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Down power	Extended	155	5775	1	17.32	17.50	1.042	100	1.000	0.03	1.170	1.220
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	10mm	Ant 7+8(7)	Down power	Standard Battery	159	5795	1	17.21	17.50	1.069	100	1.000	0.06	1.110	1.187
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 7+8(7)	Down power	Standard Battery	155	5775	1	17.32	17.50	1.042	100	1.000	0.02	0.057	0.059
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 7+8(7)	Down power	Standard Battery	155	5775	1	17.32	17.50	1.042	100	1.000	-0.03	0.853	0.889
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 7+8(7)	Down power	Standard Battery	155	5775	1	17.32	17.50	1.042	100	1.000	0.02	0.350	0.365
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 7+8(8)	Standalone DBS	Standard Battery	155	5775	1	13.33	13.50	1.040	100	1.000	0.02	0.098	0.102
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(8)	Standalone DBS	Standard Battery	155	5775	1	13.33	13.50	1.040	100	1.000	0.06	0.566	0.589
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 7+8(8)	Standalone DBS	Standard Battery	155	5775	1	13.33	13.50	1.040	100	1.000	0.03	0.025	0.026
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 7+8(8)	Standalone DBS	Standard Battery	155	5775	1	13.33	13.50	1.040	100	1.000	0.04	0.377	0.392
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 7+8(8)	Standalone DBS	Standard Battery	155	5775	1	13.33	13.50	1.040	100	1.000	0.04	0.155	0.161
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	155	5775	1	12.33	12.50	1.040	100	1.000	0.02	0.066	0.069
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	155	5775	1	12.33	12.50	1.040	100	1.000	-0.09	0.325	0.338
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	155	5775	1	12.33	12.50	1.040	100	1.000	0.09	0.017	0.018
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	155	5775	1	12.33	12.50	1.040	100	1.000	0.07	0.257	0.267
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	155	5775	1	12.33	12.50	1.040	100	1.000	0.04	0.105	0.109
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	155	5775	1	9.35	9.50	1.035	100	1.000	0.02	0.032	0.033
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	155	5775	1	9.35	9.50	1.035	100	1.000	-0.09	0.165	0.171
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	155	5775	1	9.35	9.50	1.035	100	1.000	0.09	0.008	0.008
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	155	5775	1	9.35	9.50	1.035	100	1.000	0.03	0.123	0.127
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	155	5775	1	9.35	9.50	1.035	100	1.000	-0.03	0.051	0.053



15.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Battery	Ch.	Freq. (MHz)	Sample	Accessory	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																							
	LTE Band 71	20M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 0	Standard Battery	133322	683	1	-	22.91	24.00	1.285	-	-	0.05	0.211	0.271
	LTE Band 71	20M	QPSK	50	0	-	Front	15mm	Ant 0	DSI 0	Standard Battery	133322	683	1	-	21.97	23.00	1.268	-	-	0.08	0.181	0.229
52	LTE Band 71	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	133322	683	1	-	22.91	24.00	1.285	-	-	-0.01	0.222	0.285
	LTE Band 71	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	133322	683	2	-	22.91	24.00	1.285	-	-	0.06	0.210	0.270
	LTE Band 71	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	BLE Beacon	133322	683	1	-	22.91	24.00	1.285	-	-	0.04	0.155	0.199
	LTE Band 71	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Extended	133322	683	1	-	22.91	24.00	1.285	-	-	-0.05	0.151	0.194
	LTE Band 71	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	133322	683	1	-	21.97	23.00	1.268	-	-	0.01	0.193	0.245
	LTE Band 71	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 0	Standard Battery	133322	683	1	Soft Holster	22.91	24.00	1.285	-	-	0.08	0.102	0.131
	LTE Band 71	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 0	Standard Battery	133322	683	1	Soft Holster	22.91	24.00	1.285	-	-	0.08	0.111	0.143
	LTE Band 13	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 0	Standard Battery	23230	782	1	-	22.93	24.00	1.279	-	-	0.02	0.011	0.014
	LTE Band 13	10M	QPSK	25	0	-	Front	15mm	Ant 0	DSI 0	Standard Battery	23230	782	1	-	22.02	23.00	1.253	-	-	0.08	0.008	0.010
53	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	23230	782	1	-	22.93	24.00	1.279	-	-	0.09	0.032	0.041
	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	23230	782	2	-	22.93	24.00	1.279	-	-	0.03	0.022	0.028
	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	BLE Beacon	23230	782	1	-	22.93	24.00	1.279	-	-	0.02	0.020	0.026
	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Extended	23230	782	1	-	22.93	24.00	1.279	-	-	0.03	0.021	0.027
	LTE Band 13	10M	QPSK	25	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	23230	782	1	-	22.02	23.00	1.253	-	-	0.02	0.025	0.031
	LTE Band 13	10M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 0	Standard Battery	23230	782	1	Soft Holster	22.93	24.00	1.279	-	-	0.08	0.006	0.008
	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 0	Standard Battery	23230	782	1	Soft Holster	22.93	24.00	1.279	-	-	0.02	0.021	0.027
	LTE Band 17	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 0	Standard Battery	23790	710	1	-	23.25	24.00	1.189	-	-	0.05	0.218	0.259
	LTE Band 17	10M	QPSK	25	0	-	Front	15mm	Ant 0	DSI 0	Standard Battery	23790	710	1	-	22.34	23.00	1.164	-	-	0.02	0.190	0.221
54	LTE Band 17	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	23790	710	1	-	23.25	24.00	1.189	-	-	0.01	0.225	0.267
	LTE Band 17	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	23790	710	2	-	23.25	24.00	1.189	-	-	0.05	0.181	0.215
	LTE Band 17	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	BLE Beacon	23790	710	1	-	23.25	24.00	1.189	-	-	0.06	0.193	0.229
	LTE Band 17	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Extended	23790	710	1	-	23.25	24.00	1.189	-	-	-0.05	0.189	0.225
	LTE Band 17	10M	QPSK	25	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	23790	710	1	-	22.34	23.00	1.164	-	-	0.06	0.179	0.208
	LTE Band 17	10M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 0	Standard Battery	23790	710	1	Soft Holster	23.25	24.00	1.189	-	-	0.13	0.095	0.113
	LTE Band 17	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 0	Standard Battery	23790	710	1	Soft Holster	23.25	24.00	1.189	-	-	0.17	0.092	0.109
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	DSI 0	Standard Battery	136100	680.5	1	-	23.30	24.00	1.175	-	-	0.04	0.224	0.263
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	DSI 0	Standard Battery	136100	680.5	1	-	23.22	24.00	1.197	-	-	0.08	0.190	0.227
55	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	136100	680.5	1	-	23.30	24.00	1.175	-	-	0.02	0.246	0.289
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	136100	680.5	2	-	23.30	24.00	1.175	-	-	0.03	0.232	0.273
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 0	BLE Beacon	136100	680.5	1	-	23.30	24.00	1.175	-	-	0.14	0.177	0.208
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 0	Extended	136100	680.5	1	-	23.30	24.00	1.175	-	-	-0.16	0.232	0.273
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	136100	680.5	1	-	23.22	24.00	1.197	-	-	0.01	0.205	0.245
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 0	Standard Battery	136100	680.5	1	Soft Holster	23.30	24.00	1.175	-	-	0.08	0.203	0.239
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 0	Standard Battery	136100	680.5	1	Soft Holster	23.30	24.00	1.175	-	-	0.07	0.224	0.263
835MHz																							
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 0	DSI 0	Standard Battery	189	836.4	1	-	26.54	27.50	1.247	-	-	0.03	0.327	0.408
56	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 0	DSI 0	Standard Battery	189	836.4	1	-	26.54	27.50	1.247	-	-	-0.08	0.335	0.418
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 0	DSI 0	Standard Battery	189	836.4	2	-	26.54	27.50	1.247	-	-	0.01	0.255	0.318
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 0	DSI 0	BLE Beacon	189	836.4	1	-	26.54	27.50	1.247	-	-	0.15	0.316	0.394
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 0	DSI 0	Extended	189	836.4	1	-	26.54	27.50	1.247	-	-	0.1	0.301	0.375
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 0	DSI 0	Standard Battery	189	836.4	1	Soft Holster	26.54	27.50	1.247	-	-	0.05	0.156	0.195
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	DSI 0	Standard Battery	189	836.4	1	Soft Holster	26.54	27.50	1.247	-	-	-0.04	0.173	0.216
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	DSI 0	Standard Battery	4182	836.4	1	-	24.23	25.00	1.194	-	-	0.05	0.227	0.271
57	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 0	Standard Battery	4182	836.4	1	-	24.23	25.00	1.194	-	-	-0.01	0.261	0.312
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 0	Standard Battery	4182	836.4	2	-	24.23	25.00	1.194	-	-	0.01	0.188	0.224
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 0	BLE Beacon	4182	836.4	1	-	24.23	25.00	1.194	-	-	0.13	0.223	0.266
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 0	Extended	4182	836.4	1	-	24.23	25.00	1.194	-	-	0.07	0.200	0.239
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 0	Standard Battery	4182	836.4	1	Soft Holster	24.23	25.00	1.194	-	-	0.18	0.165	0.197



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WCDMA V		-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 0	Standard Battery	4182	836.4	1	Soft Holster	24.23	25.00	1.194	-	-	0.02	0.203	0.242
	LTE Band 5	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 0	Standard Battery	20525	836.5	1	-	23.05	24.00	1.245	-	-	0.01	0.162	0.202
	LTE Band 5	10M	QPSK	25	0	-	Front	15mm	Ant 0	DSI 0	Standard Battery	20525	836.5	1	-	22.10	23.00	1.230	-	-	0.05	0.136	0.167
58	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	20525	836.5	1	-	23.05	24.00	1.245	-	-	-0.01	0.177	0.220
	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	20525	836.5	2	-	23.05	24.00	1.245	-	-	0.03	0.146	0.182
	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	BLE Beacon	20525	836.5	1	-	23.05	24.00	1.245	-	-	0.06	0.126	0.157
	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 0	Extended	20525	836.5	1	-	23.05	24.00	1.245	-	-	0.07	0.124	0.154
	LTE Band 5	10M	QPSK	25	0	-	Back	15mm	Ant 0	DSI 0	Standard Battery	20525	836.5	1	-	22.10	23.00	1.230	-	-	0.07	0.153	0.188
	LTE Band 5	10M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 0	Standard Battery	20525	836.5	1	Soft Holster	23.05	24.00	1.245	-	-	-0.03	0.157	0.195
	LTE Band 5	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 0	Standard Battery	20525	836.5	1	Soft Holster	23.05	24.00	1.245	-	-	-0.13	0.149	0.185
	LTE Band 5B	10M	QPSK	1	49	-	Back	15mm	Ant 0	DSI 0	Standard Battery	20476+20575	831.6+841.5	1	-	22.83	24.00	1.309	-	-	0.02	0.156	0.204
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	DSI 0	Standard Battery	167300	836.5	1	-	23.37	24.00	1.156	-	-	0.06	0.197	0.228
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	DSI 0	Standard Battery	167300	836.5	1	-	23.34	24.00	1.164	-	-	0.08	0.159	0.185
59	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	167300	836.5	1	-	23.37	24.00	1.156	-	-	0.04	0.204	0.236
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	167300	836.5	2	-	23.37	24.00	1.156	-	-	0.03	0.159	0.184
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 0	BLE Beacon	167300	836.5	1	-	23.37	24.00	1.156	-	-	-0.09	0.183	0.212
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 0	Extended	167300	836.5	1	-	23.37	24.00	1.156	-	-	0.16	0.185	0.214
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	167300	836.5	1	-	23.34	24.00	1.164	-	-	0.09	0.190	0.221
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 0	Standard Battery	167300	836.5	1	Soft Holster	23.37	24.00	1.156	-	-	-0.09	0.115	0.133
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 0	Standard Battery	167300	836.5	1	Soft Holster	23.37	24.00	1.156	-	-	0.06	0.128	0.148
1750MHz																							
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	DSI 0	Standard Battery	1413	1732.6	1	-	22.84	24.00	1.306	-	-	0.01	0.243	0.317
60	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 0	Standard Battery	1413	1732.6	1	-	22.84	24.00	1.306	-	-	-0.05	0.510	0.666
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 0	BLE Beacon	1413	1732.6	1	-	22.84	24.00	1.306	-	-	0.04	0.432	0.564
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 0	Extended	1413	1732.6	1	-	22.84	24.00	1.306	-	-	0.03	0.464	0.606
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 0	Standard Battery	1413	1732.6	1	Soft Holster	22.84	24.00	1.306	-	-	0.04	0.275	0.359
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 0	Standard Battery	1413	1732.6	1	Soft Holster	22.84	24.00	1.306	-	-	0.12	0.501	0.654
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 0	Standard Battery	132322	1745	1	-	22.69	24.00	1.352	-	-	0.05	0.226	0.306
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 0	Standard Battery	132322	1745	1	-	21.76	23.00	1.330	-	-	0.01	0.189	0.251
61	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 0	Standard Battery	132322	1745	1	-	22.69	24.00	1.352	-	-	-0.02	0.469	0.634
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 0	BLE Beacon	132322	1745	1	-	22.69	24.00	1.352	-	-	0.06	0.388	0.525
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 0	Extended	132322	1745	1	-	22.69	24.00	1.352	-	-	0.04	0.307	0.415
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 0	Standard Battery	132322	1745	1	-	21.76	23.00	1.330	-	-	0.03	0.413	0.549
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 0	Standard Battery	132322	1745	1	Soft Holster	22.69	24.00	1.352	-	-	0.03	0.211	0.285
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 0	Standard Battery	132322	1745	1	Soft Holster	22.69	24.00	1.352	-	-	-0.12	0.462	0.625
	LTE Band 66C	20M	QPSK	1	99	-	Back	15mm	Ant 1	DSI 0	Standard Battery	132322+132520	1745+1764.8	1	-	22.49	24.00	1.416	-	-	0.02	0.438	0.620
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	DSI 0	Standard Battery	349000	1745	1	-	23.27	24.00	1.183	-	-	0.08	0.238	0.282
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 1	DSI 0	Standard Battery	349000	1745	1	-	23.23	24.00	1.194	-	-	0.02	0.250	0.298
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 0	Standard Battery	349000	1745	1	-	23.27	24.00	1.183	-	-	0.02	0.523	0.619
62	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 0	Standard Battery	349000	1745	1	-	23.23	24.00	1.194	-	-	-0.04	0.570	0.681
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 0	BLE Beacon	349000	1745	1	-	23.23	24.00	1.194	-	-	0.06	0.496	0.592
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 0	Extended	349000	1745	1	-	23.23	24.00	1.194	-	-	0.01	0.504	0.602
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 0	Standard Battery	349000	1745	1	Soft Holster	23.23	24.00	1.194	-	-	0.07	0.337	0.402
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 0	Standard Battery	349000	1745	1	Soft Holster	23.23	24.00	1.194	-	-	0.05	0.551	0.658
1900MHz																							
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 2	DSI 0	Standard Battery	661	1880	1	-	23.97	25.00	1.268	-	-	0.01	0.061	0.077
63	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 2	DSI 0	Standard Battery	661	1880	1	-	23.97	25.00	1.268	-	-	0.02	0.150	0.190
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 2	DSI 0	Standard Battery	661	1880	2	-	23.97	25.00	1.268	-	-	0.01	0.130	0.165
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 2	DSI 0	BLE Beacon	661	1880	1	-	23.97	25.00	1.268	-	-	-0.15	0.129	0.164
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 2	DSI 0	Extended	661	1880	1	-	23.97	25.00	1.268	-	-	0.02	0.116	0.147
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 2	DSI 0	Standard Battery	661	1880	1	Soft Holster	23.97	25.00	1.268	-	-	0.18	0.039	0.049
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 2	DSI 0	Standard Battery	661	1880	1	Soft Holster	23.97	25.00	1.268	-	-	-0.15	0.143	0.181
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	DSI 0	Standard Battery	9400	1880	1	-	22.90	24.00	1.288	-	-	0.05	0.297	0.383
64	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 0	Standard Battery	9400	1880	1	-	22.90	24.00	1.288	-	-	-0.1	0.628	0.809
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 0	BLE Beacon	9400	1880	1	-	22.90	24.00	1.288	-	-	-0.14	0.551	0.710



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	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 0	Extended	9400	1880	1	-	22.90	24.00	1.288	-	-	-0.12	0.468	0.603
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 0	Standard Battery	9262	1852.4	1	-	22.82	24.00	1.312	-	-	0.01	0.616	0.808
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 0	Standard Battery	9538	1907.6	1	-	22.74	24.00	1.337	-	-	0.05	0.601	0.803
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 0	Standard Battery	9400	1880	1	Soft Holster	22.90	24.00	1.288	-	-	-0.1	0.336	0.433
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 0	Standard Battery	9400	1880	1	Soft Holster	22.90	24.00	1.288	-	-	0.02	0.604	0.778
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 0	Standard Battery	18900	1880	1	-	22.49	24.00	1.416	-	-	0.01	0.242	0.343
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 0	Standard Battery	18900	1880	1	-	21.61	23.00	1.377	-	-	0.08	0.194	0.267
65	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 0	Standard Battery	18900	1880	1	-	22.49	24.00	1.416	-	-	-0.07	0.429	0.607
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 0	BLE Beacon	18900	1880	1	-	22.49	24.00	1.416	-	-	0.17	0.394	0.558
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 0	Extended	18900	1880	1	-	22.49	24.00	1.416	-	-	-0.11	0.348	0.493
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 0	Standard Battery	18900	1880	1	-	21.61	23.00	1.377	-	-	-0.17	0.352	0.485
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 0	Standard Battery	18900	1880	1	Soft Holster	22.49	24.00	1.416	-	-	-0.06	0.232	0.328
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 0	Standard Battery	18900	1880	1	Soft Holster	22.49	24.00	1.416	-	-	-0.18	0.415	0.588
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	DSI 0	Standard Battery	376000	1880	1	-	23.00	24.00	1.259	-	-	0.09	0.223	0.281
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 1	DSI 0	Standard Battery	376000	1880	1	-	22.93	24.00	1.279	-	-	0.01	0.180	0.230
66	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 0	Standard Battery	376000	1880	1	-	23.00	24.00	1.259	-	-	-0.06	0.425	0.535
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 0	BLE Beacon	376000	1880	1	-	23.00	24.00	1.259	-	-	0.06	0.413	0.520
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 0	Extended	376000	1880	1	-	23.00	24.00	1.259	-	-	0.07	0.419	0.527
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 0	Standard Battery	376000	1880	1	-	22.93	24.00	1.279	-	-	0.05	0.323	0.413
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 0	Standard Battery	376000	1880	1	Soft Holster	23.00	24.00	1.259	-	-	0.07	0.204	0.257
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 0	Standard Battery	376000	1880	1	Soft Holster	23.00	24.00	1.259	-	-	0.05	0.407	0.512
2600MHz																							
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 0	Standard Battery	21100	2535	1	-	23.95	25.00	1.274	-	-	0.01	0.115	0.146
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 0	Standard Battery	21100	2535	1	-	22.95	24.00	1.274	-	-	0.09	0.100	0.127
67	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	21100	2535	1	-	23.95	25.00	1.274	-	-	-0.04	0.808	1.029
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	21100	2535	2	-	23.95	25.00	1.274	-	-	0.03	0.751	0.956
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 0	BLE Beacon	21100	2535	1	-	23.95	25.00	1.274	-	-	-0.17	0.341	0.434
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 0	Extended	21100	2535	1	-	23.95	25.00	1.274	-	-	0.04	0.376	0.479
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	20850	2510	1	-	23.86	25.00	1.300	-	-	0.1	0.786	1.022
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	21350	2560	1	-	23.78	25.00	1.324	-	-	0.06	0.766	1.014
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	21100	2535	1	-	22.95	24.00	1.274	-	-	0.02	0.656	0.835
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	20850	2510	1	-	22.94	24.00	1.276	-	-	0.15	0.632	0.807
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	21350	2560	1	-	22.80	24.00	1.318	-	-	0.02	0.628	0.828
	LTE Band 7	20M	QPSK	100	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	21100	2535	1	-	22.89	24.00	1.291	-	-	0.08	0.645	0.833
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 0	Standard Battery	21100	2535	1	Soft Holster	23.95	25.00	1.274	-	-	0.11	0.049	0.062
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 0	Standard Battery	21100	2535	1	Soft Holster	23.95	25.00	1.274	-	-	0.05	0.484	0.616
	LTE Band 7C	20M	QPSK	1	99	-	Back	15mm	Ant 2	DSI 0	Standard Battery	21100+21298	2535+2554.8	1	-	23.74	25.00	1.337	-	-	0.03	0.752	1.005
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 0	Standard Battery	40620	2593	1	-	23.16	24.00	1.213	62.9	1.006	0.01	0.055	0.068
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 0	Standard Battery	40620	2593	1	-	22.23	23.00	1.194	62.9	1.006	0.03	0.030	0.036
68	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	40620	2593	1	-	23.16	24.00	1.213	62.9	1.006	-0.04	0.317	0.387
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	40620	2593	2	-	23.16	24.00	1.213	62.9	1.006	0.02	0.210	0.256
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 0	BLE Beacon	40620	2593	1	-	23.16	24.00	1.213	62.9	1.006	0.03	0.250	0.305
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 0	Extended	40620	2593	1	-	23.16	24.00	1.213	62.9	1.006	0.03	0.236	0.288
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 0	Standard Battery	40620	2593	1	-	22.23	23.00	1.194	62.9	1.006	0.01	0.259	0.311
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 0	Standard Battery	40620	2593	1	Soft Holster	23.16	24.00	1.213	62.9	1.006	0.03	0.010	0.012
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 0	Standard Battery	40620	2593	1	Soft Holster	23.16	24.00	1.213	62.9	1.006	0.05	0.243	0.297
	LTE Band 41C	20M	QPSK	1	99	-	Back	15mm	Ant 2	DSI 0	Standard Battery	40620+40818	2593+2612.8	1	-	22.94	24.00	1.276	62.9	1.006	0.02	0.278	0.357
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 2	DSI 0	Standard Battery	507000	2535	1	-	23.46	24.00	1.132	-	-	0.03	0.102	0.116
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 2	DSI 0	Standard Battery	507000	2535	1	-	23.39	24.00	1.151	-	-	0.01	0.092	0.106
69	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	DSI 0	Standard Battery	507000	2535	1	-	23.46	24.00	1.132	-	-	-0.08	0.705	0.798
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	DSI 0	Standard Battery	507000	2535	2	-	23.46	24.00	1.132	-	-	0.01	0.499	0.565
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	DSI 0	BLE Beacon	507000	2535	1	-	23.46	24.00	1.132	-	-	0.15	0.672	0.761
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	DSI 0	Extended	507000	2535	1	-	23.46	24.00	1.132	-	-	0.02	0.644	0.729
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 2	DSI 0	Standard Battery	507000	2535	1	-	23.39	24.00	1.151	-	-	0.08	0.666	0.766
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 0	Standard Battery	507000	2535	1	Soft Holster	23.46	24.00	1.132	-	-	-0.17	0.072	0.082
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 0	Standard Battery	507000	2535	1	Soft Holster	23.46	24.00	1.132	-	-	0.03	0.614	0.695



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	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 2	DSI 0	Standard Battery	518598	2592.99	1	-	23.32	24.00	1.169	-	-	0.05	0.106	0.124
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 2	DSI 0	Standard Battery	518598	2592.99	1	-	23.22	24.00	1.197	-	-	0.03	0.089	0.107
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	DSI 0	Standard Battery	518598	2592.99	1	-	23.32	24.00	1.169	-	-	-0.09	0.564	0.660
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	DSI 0	Standard Battery	518598	2592.99	2	-	23.32	24.00	1.169	-	-	0.03	0.432	0.505
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	DSI 0	BLE Beacon	518598	2592.99	1	-	23.32	24.00	1.169	-	-	0.01	0.478	0.559
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	DSI 0	Extended	518598	2592.99	1	-	23.32	24.00	1.169	-	-	0.02	0.503	0.588
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 2	DSI 0	Standard Battery	518598	2592.99	1	-	23.22	24.00	1.197	-	-	0.08	0.538	0.644
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 0	Standard Battery	518598	2592.99	1	Soft Holster	23.32	24.00	1.169	-	-	-0.17	0.067	0.078
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 0	Standard Battery	518598	2592.99	1	Soft Holster	23.32	24.00	1.169	-	-	-0.17	0.468	0.547
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 0	DSI 0	Standard Battery	518598	2592.99	1	-	20.93	21.80	1.222	-	-	0.08	0.069	0.084
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 0	DSI 0	Standard Battery	518598	2592.99	1	-	20.84	21.80	1.247	-	-	0.01	0.094	0.117
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	518598	2592.99	1	-	20.93	21.80	1.222	-	-	0.06	0.339	0.414
70	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	518598	2592.99	1	-	20.84	21.80	1.247	-	-	0.08	0.549	0.685
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	518598	2592.99	2	-	20.84	21.80	1.247	-	-	0.01	0.489	0.610
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	BLE Beacon	518598	2592.99	1	-	20.84	21.80	1.247	-	-	0.17	0.375	0.468
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Extended	518598	2592.99	1	-	20.84	21.80	1.247	-	-	0.02	0.421	0.525
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 0	DSI 0	Standard Battery	518598	2592.99	1	Soft Holster	20.84	21.80	1.247	-	-	-0.1	0.066	0.082
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 0	Standard Battery	518598	2592.99	1	Soft Holster	20.84	21.80	1.247	-	-	0.1	0.274	0.342
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 3	DSI 0	Standard Battery	518598	2592.99	1	-	22.18	23.00	1.208	-	-	0.05	0.137	0.165
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 3	DSI 0	Standard Battery	518598	2592.99	1	-	22.12	23.00	1.225	-	-	0.01	0.161	0.197
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 3	DSI 0	Standard Battery	518598	2592.99	1	-	22.18	23.00	1.208	-	-	0.06	0.179	0.216
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 3	DSI 0	Standard Battery	518598	2592.99	1	-	22.12	23.00	1.225	-	-	0.03	0.204	0.250
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 3	DSI 0	BLE Beacon	518598	2592.99	1	-	22.12	23.00	1.225	-	-	0.06	0.201	0.246
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 3	DSI 0	Extended	518598	2592.99	1	-	22.12	23.00	1.225	-	-	0.02	0.183	0.224
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 3	DSI 0	Standard Battery	518598	2592.99	1	Soft Holster	22.12	23.00	1.225	-	-	-0.04	0.107	0.131
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 0	Standard Battery	518598	2592.99	1	Soft Holster	22.12	23.00	1.225	-	-	0.05	0.199	0.244
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 4	DSI 0	Standard Battery	518598	2592.99	1	-	22.85	24.00	1.303	-	-	0.06	0.117	0.152
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 4	DSI 0	Standard Battery	518598	2592.99	1	-	22.69	24.00	1.352	-	-	0.09	0.111	0.150
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	DSI 0	Standard Battery	518598	2592.99	1	-	22.85	24.00	1.303	-	-	0.01	0.181	0.236
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	DSI 0	BLE Beacon	518598	2592.99	1	-	22.85	24.00	1.303	-	-	0.18	0.171	0.223
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	DSI 0	Extended	518598	2592.99	1	-	22.85	24.00	1.303	-	-	0.02	0.178	0.232
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 4	DSI 0	Standard Battery	518598	2592.99	1	-	22.69	24.00	1.352	-	-	0.11	0.158	0.214
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSI 0	Standard Battery	518598	2592.99	1	Soft Holster	22.85	24.00	1.303	-	-	0.03	0.071	0.093
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 4	DSI 0	Standard Battery	518598	2592.99	1	Soft Holster	22.85	24.00	1.303	-	-	-0.16	0.178	0.232
3500MHz-3900MHz																							
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 5	DSI 0	Standard Battery	42590	3500	1	-	22.81	23.50	1.172	62.9	1.006	0.09	0.375	0.442
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 5	DSI 0	Standard Battery	42590	3500	1	-	21.88	23.00	1.294	62.9	1.006	0.01	0.243	0.316
71	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 5	DSI 0	Standard Battery	42590	3500	1	-	22.81	23.50	1.172	62.9	1.006	0.01	0.701	0.827
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 5	DSI 0	Standard Battery	42590	3500	2	-	22.81	23.50	1.172	62.9	1.006	0.06	0.700	0.825
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 5	DSI 0	BLE Beacon	42590	3500	1	-	22.81	23.50	1.172	62.9	1.006	0.08	0.603	0.711
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 5	DSI 0	Extended	42590	3500	1	-	22.81	23.50	1.172	62.9	1.006	0.05	0.578	0.682
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 5	DSI 0	Standard Battery	42190	3460	1	-	22.69	23.50	1.205	62.9	1.006	0.09	0.653	0.792
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 5	DSI 0	Standard Battery	42990	3540	1	-	22.62	23.50	1.225	62.9	1.006	0.04	0.648	0.798
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 5	DSI 0	Standard Battery	42590	3500	1	-	21.88	23.00	1.294	62.9	1.006	0.06	0.608	0.792
	LTE Band 42	20M	QPSK	100	0	-	Back	15mm	Ant 5	DSI 0	Standard Battery	42590	3500	1	-	21.84	23.00	1.306	62.9	1.006	0.04	0.589	0.774
	LTE Band 42	20M	QPSK	1	0	-	Front	0mm	Ant 5	DSI 0	Standard Battery	42590	3500	1	Soft Holster	22.81	23.50	1.172	62.9	1.006	-0.09	0.071	0.084
	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 5	DSI 0	Standard Battery	42590	3500	1	Soft Holster	22.81	23.50	1.172	62.9	1.006	0.02	0.540	0.637
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 0	DSI 0	Standard Battery	656000	3840	1	-	21.36	22.00	1.159	-	-	0.05	0.200	0.232
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 0	DSI 0	Standard Battery	656000	3840	1	-	21.26	22.00	1.186	-	-	0.01	0.201	0.238
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	656000	3840	1	-	21.36	22.00	1.159	-	-	0.06	0.291	0.337
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	656000	3840	1	-	21.26	22.00	1.186	-	-	0.03	0.384	0.455
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	656000	3840	2	-	21.26	22.00	1.186	-	-	0.02	0.306	0.363
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	BLE Beacon	656000	3840	1	-	21.26	22.00	1.186	-	-	-0.04	0.353	0.419
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Extended	656000	3840	1	-	21.26	22.00	1.186	-	-	0.05	0.324	0.384
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 0	DSI 0	Standard Battery	656000	3840	1	Soft Holster	21.26	22.00	1.186	-	-	0.06	0.161	0.191
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 0	Standard Battery	656000	3840	1	Soft Holster	21.26	22.00	1.186	-	-	0.01	0.242	0.287



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	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 0	DSI 0	Standard Battery	633334	3500.01	1	-	20.76	22.00	1.330	-	-	0.08	0.090	0.120
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 0	DSI 0	Standard Battery	633334	3500.01	1	-	20.72	22.00	1.343	-	-	-0.1	0.088	0.118
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	633334	3500.01	1	-	20.76	22.00	1.330	-	-	0.1	0.286	0.381
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	633334	3500.01	2	-	20.76	22.00	1.330	-	-	0.04	0.274	0.365
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	BLE Beacon	633334	3500.01	1	-	20.76	22.00	1.330	-	-	0.01	0.249	0.331
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Extended	633334	3500.01	1	-	20.76	22.00	1.330	-	-	-0.09	0.245	0.326
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 0	DSI 0	Standard Battery	633334	3500.01	1	-	20.72	22.00	1.343	-	-	0.17	0.254	0.341
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 0	DSI 0	Standard Battery	633334	3500.01	1	Soft Holster	20.76	22.00	1.330	-	-	0.02	0.062	0.082
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 0	Standard Battery	633334	3500.01	1	Soft Holster	20.76	22.00	1.330	-	-	0.08	0.259	0.345
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 0	Standard Battery	656000	3840	1	-	22.13	23.00	1.222	-	-	0.15	0.106	0.130
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 0	Standard Battery	656000	3840	1	-	22.07	23.00	1.239	-	-	0.02	0.125	0.155
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 0	Standard Battery	656000	3840	1	-	22.13	23.00	1.222	-	-	0.08	0.276	0.337
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 0	Standard Battery	656000	3840	1	-	22.07	23.00	1.239	-	-	0.01	0.315	0.390
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 0	BLE Beacon	656000	3840	1	-	22.07	23.00	1.239	-	-	0.03	0.220	0.273
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 0	Extended	656000	3840	1	-	22.07	23.00	1.239	-	-	0.05	0.215	0.266
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 0	Standard Battery	656000	3840	1	Soft Holster	22.07	23.00	1.239	-	-	0.03	0.109	0.135
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 0	Standard Battery	656000	3840	1	Soft Holster	22.07	23.00	1.239	-	-	-0.09	0.277	0.343
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 0	Standard Battery	633334	3500.01	1	-	22.18	23.00	1.208	-	-	-0.17	0.050	0.060
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 0	Standard Battery	633334	3500.01	1	-	22.04	23.00	1.247	-	-	0.01	0.045	0.056
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 0	Standard Battery	633334	3500.01	1	-	22.18	23.00	1.208	-	-	-0.04	0.330	0.399
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 0	Standard Battery	633334	3500.01	1	-	22.04	23.00	1.247	-	-	0.05	0.319	0.398
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 0	BLE Beacon	633334	3500.01	1	-	22.18	23.00	1.208	-	-	0.06	0.051	0.062
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 0	Extended	633334	3500.01	1	-	22.18	23.00	1.208	-	-	0.08	0.047	0.057
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 0	Standard Battery	633334	3500.01	1	Soft Holster	22.18	23.00	1.208	-	-	0.06	0.018	0.022
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 0	Standard Battery	633334	3500.01	1	Soft Holster	22.18	23.00	1.208	-	-	0.01	0.081	0.098
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	-	17.92	19.10	1.312	-	-	0.03	0.078	0.102
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	-	17.83	19.10	1.340	-	-	0.04	0.068	0.091
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	-	17.92	19.10	1.312	-	-	-0.03	0.259	0.340
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 0	Standard Battery	656000	3840	2	-	17.92	19.10	1.312	-	-	0.08	0.172	0.226
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 0	BLE Beacon	656000	3840	1	-	17.92	19.10	1.312	-	-	0.01	0.249	0.327
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 0	Extended	656000	3840	1	-	17.92	19.10	1.312	-	-	0.01	0.242	0.318
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	-	17.83	19.10	1.340	-	-	0.01	0.245	0.328
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	Soft Holster	17.92	19.10	1.312	-	-	0.08	0.057	0.075
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	Soft Holster	17.92	19.10	1.312	-	-	0.06	0.235	0.308
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	1	-	18.07	19.10	1.268	-	-	0.02	0.069	0.087
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	1	-	18.00	19.10	1.288	-	-	0.04	0.061	0.079
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	1	-	18.07	19.10	1.268	-	-	-0.15	0.302	0.383
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	2	-	18.07	19.10	1.268	-	-	0.06	0.165	0.209
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 0	BLE Beacon	633334	3500.01	1	-	18.07	19.10	1.268	-	-	0.03	0.295	0.374
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 0	Extended	633334	3500.01	1	-	18.07	19.10	1.268	-	-	0.01	0.287	0.364
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	1	-	18.00	19.10	1.288	-	-	0.03	0.289	0.372
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	1	Soft Holster	18.07	19.10	1.268	-	-	0.08	0.040	0.051
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	1	Soft Holster	18.07	19.10	1.268	-	-	0.06	0.256	0.325
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 0	Standard Battery	656000	3840	1	-	21.22	22.50	1.343	-	-	-0.01	0.081	0.109
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 0	Standard Battery	656000	3840	1	-	21.15	22.50	1.365	-	-	0.05	0.044	0.060
72	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 0	Standard Battery	656000	3840	1	-	21.22	22.50	1.343	-	-	0.02	0.393	0.528
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 0	Standard Battery	656000	3840	2	-	21.22	22.50	1.343	-	-	0.01	0.315	0.423
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 0	BLE Beacon	656000	3840	1	-	21.22	22.50	1.343	-	-	0.08	0.361	0.485
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 0	Extended	656000	3840	1	-	21.22	22.50	1.343	-	-	-0.1	0.333	0.447
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 0	Standard Battery	656000	3840	1	-	21.15	22.50	1.365	-	-	0.06	0.251	0.343
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 6	DSI 0	Standard Battery	656000	3840	1	Soft Holster	21.22	22.50	1.343	-	-	0.1	0.046	0.062
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Standard Battery	656000	3840	1	Soft Holster	21.22	22.50	1.343	-	-	0.17	0.213	0.286
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	1	-	21.35	22.50	1.303	-	-	0.03	0.037	0.048
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	1	-	21.27	22.50	1.327	-	-	0.09	0.032	0.042
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	1	-	21.35	22.50	1.303	-	-	0.04	0.384	0.500
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	2	-	21.35	22.50	1.303	-	-	0.01	0.286	0.373



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FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 0	BLE Beacon	633334	3500.01	1	-	21.35	22.50	1.303	-	-	0.08	0.342	0.446
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 0	Extended	633334	3500.01	1	-	21.35	22.50	1.303	-	-	0.03	0.332	0.433
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	1	-	21.27	22.50	1.327	-	-	0.07	0.307	0.408
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	1	Soft Holster	21.35	22.50	1.303	-	-	0.01	0.031	0.040
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	1	Soft Holster	21.35	22.50	1.303	-	-	0.09	0.363	0.473

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Battery	Ch.	Freq. (MHz)	Sample	Accessory	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)
WLAN/BT																				
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 8	-	Full power	Standard Battery	6	2437	1	-	20.90	21.00	1.023	98.28	1.018	0.02	0.062	0.065
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 8	-	Full power	Standard Battery	6	2437	1	-	20.90	21.00	1.023	98.28	1.018	-0.05	0.247	0.257
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 8	-	Full power	Standard Battery	6	2437	2	-	20.90	21.00	1.023	98.28	1.018	0.01	0.225	0.234
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 8	-	Full power	BLE Beacon	6	2437	1	-	20.90	21.00	1.023	98.28	1.018	0.03	0.246	0.256
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 8	-	Full power	Extended	6	2437	1	-	20.90	21.00	1.023	98.28	1.018	0.02	0.230	0.240
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 8	-	Simultaneous DBS	Standard Battery	6	2437	1	-	19.30	19.50	1.047	98.28	1.018	0.02	0.039	0.042
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 8	-	Simultaneous DBS	Standard Battery	6	2437	1	-	19.30	19.50	1.047	98.28	1.018	0.09	0.156	0.166
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 8	-	Full power	Standard Battery	6	2437	1	Soft Holster	20.90	21.00	1.023	98.28	1.018	0.06	0.043	0.045
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 8	-	Full power	Standard Battery	6	2437	1	Soft Holster	20.90	21.00	1.023	98.28	1.018	0.01	0.236	0.246
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 7+8(7)	-	Full power	Standard Battery	11	2462	1	-	20.70	21.00	1.072	98.28	1.018	0.03	0.187	0.204
73	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7+8(7)	-	Full power	Standard Battery	11	2462	1	-	20.70	21.00	1.072	98.28	1.018	-0.04	0.308	0.336
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7+8(7)	-	Full power	Standard Battery	11	2462	2	-	20.70	21.00	1.072	98.28	1.018	0.03	0.301	0.328
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7+8(7)	-	Full power	BLE Beacon	11	2462	1	-	20.70	21.00	1.072	98.28	1.018	0.01	0.284	0.310
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7+8(7)	-	Full power	Extended	11	2462	1	-	20.70	21.00	1.072	98.28	1.018	0.05	0.272	0.297
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 7+8(8)	-	Simultaneous DBS	Standard Battery	11	2462	1	-	18.88	19.00	1.028	98.28	1.018	0.05	0.098	0.103
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7+8(8)	-	Simultaneous DBS	Standard Battery	11	2462	1	-	18.88	19.00	1.028	98.28	1.018	0.01	0.162	0.170
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 7+8(7)	-	Full power	Standard Battery	11	2462	1	Soft Holster	20.70	21.00	1.072	98.28	1.018	0.06	0.095	0.104
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 7+8(7)	-	Full power	Standard Battery	11	2462	1	Soft Holster	20.70	21.00	1.072	98.28	1.018	0.03	0.301	0.328
	Bluetooth	1Mbps	Front	15mm	Ant 7	-	Full power	Standard Battery	78	2480	1	-	3.27	4.00	1.183	76.86	1.084	0.01	0.001	0.001
74	Bluetooth	1Mbps	Back	15mm	Ant 7	-	Full power	Standard Battery	78	2480	1	-	3.27	4.00	1.183	76.86	1.084	0.03	0.002	0.003
	Bluetooth	1Mbps	Back	15mm	Ant 7	-	Full power	Standard Battery	78	2480	2	-	3.27	4.00	1.183	76.86	1.084	0.02	0.001	0.001
	Bluetooth	1Mbps	Back	15mm	Ant 7	-	Full power	BLE Beacon	78	2480	1	-	3.27	4.00	1.183	76.86	1.084	0.07	0.001	0.001
	Bluetooth	1Mbps	Back	15mm	Ant 7	-	Full power	Extended	78	2480	1	-	3.27	4.00	1.183	76.86	1.084	-0.01	0.001	0.001
	Bluetooth	1Mbps	Front	0mm	Ant 7	-	Full power	Standard Battery	78	2480	1	Soft Holster	3.27	4.00	1.183	76.86	1.084	0.01	0.001	0.001
	Bluetooth	1Mbps	Back	0mm	Ant 7	-	Full power	Standard Battery	78	2480	1	Soft Holster	3.27	4.00	1.183	76.86	1.084	0.06	0.001	0.001
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 7+8(8)	-	Full power	Standard Battery	54	5270	1	-	19.80	20.00	1.047	100	1.000	0.03	0.186	0.195
75	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	-	Full power	Standard Battery	54	5270	1	-	19.80	20.00	1.047	100	1.000	-0.09	0.688	0.720
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	-	Full power	Standard Battery	54	5270	2	-	19.80	20.00	1.047	100	1.000	0.03	0.629	0.659
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	-	Full power	BLE Beacon	54	5270	1	-	19.80	20.00	1.047	100	1.000	0.02	0.667	0.698
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	-	Full power	Extended	54	5270	1	-	19.80	20.00	1.047	100	1.000	0.06	0.656	0.687
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 7+8(7)	-	Standalone DBS	Standard Battery	54	5270	1	-	18.66	19.00	1.081	100	1.000	0.05	0.143	0.155
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(7)	-	Standalone DBS	Standard Battery	54	5270	1	-	18.66	19.00	1.081	100	1.000	0.01	0.527	0.570
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8(8)	-	Simultaneous Non DBS	Standard Battery	54	5270	1	-	15.77	16.00	1.054	100	1.000	0.06	0.102	0.108
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8(8)	-	Simultaneous Non DBS	Standard Battery	54	5270	1	-	15.77	16.00	1.054	100	1.000	0.02	0.376	0.396
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8(8)	-	Simultaneous DBS	Standard Battery	58	5290	1	-	12.73	13.00	1.064	100	1.000	0.09	0.044	0.047
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8(8)	-	Simultaneous DBS	Standard Battery	58	5290	1	-	12.73	13.00	1.064	100	1.000	0.01	0.164	0.175
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 7+8(8)	-	Full power	Standard Battery	54	5270	1	Soft Holster	19.80	20.00	1.047	100	1.000	-0.02	0.174	0.182
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 7+8(8)	-	Full power	Standard Battery	54	5270	1	Soft Holster	19.80	20.00	1.047	100	1.000	0.04	0.555	0.581
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 7+8(7)	-	Full power	Standard Battery	110	5550	1	-	18.72	19.00	1.067	100	1.000	0.03	0.218	0.233
76	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(7)	-	Full power	Standard Battery	110	5550	1	-	18.72	19.00	1.067	100	1.000	-0.09	1.200	1.280
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(7)	-	Full power	Standard Battery	110	5550	2	-	18.72	19.00	1.067	100	1.000	0.02	1.070	1.141
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(7)	3.5mm PTT	Full power	Standard Battery	110	5550	1	-	18.72	19.00	1.067	100	1.000	0.06	1.020	1.088
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(7)	Type C Audio	Full power	Standard Battery	110	5550	1	-	18.72	19.00	1.067	100	1.000	0.01	0.926	0.988
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(7)	-	Full power	BLE Beacon	110	5550	1	-	18.72	19.00	1.067	100	1.000	0.04	1.080	1.152
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(7)	-	Full power	Extended	110	5550	1	-	18.72	19.00	1.067	100	1.000	0.09	0.962	1.026
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	-	Full power	Standard Battery	126	5630	1	-	19.16	19.50	1.081	100	1.000	0.01	1.060	1.146
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	-	Full power	Standard Battery	102	5510	1	-	17.56	18.00	1.107	100	1.000	0.02	0.825	0.913
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(7)	-	Full power	Standard Battery	134	5670	1	-	18.33	18.50	1.040	100	1.000	0.06	0.966	1.005
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(7)	-	Full power	Standard Battery	142	5710	1	-	18.44	18.50	1.014	100	1.000	0.03	0.985	0.999
	WLAN5.5GHz	802.11a 6Mbps	Back	15mm	Ant 7+8(7)	-	Full power	Standard Battery	100	5500	1	-	18.89	19.00	1.025	99.05	1.010	0.01	1.100	1.139



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	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8(8)	-	Standalone DBS	Standard Battery	138	5690	1	-	15.88	16.00	1.028	100	1.000	-0.04	0.087	0.089
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8(8)	-	Standalone DBS	Standard Battery	138	5690	1	-	15.88	16.00	1.028	100	1.000	0.06	0.479	0.492
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8(8)	-	Simultaneous Non DBS	Standard Battery	138	5690	1	-	13.85	14.00	1.035	100	1.000	0.01	0.055	0.057
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8(8)	-	Simultaneous Non DBS	Standard Battery	138	5690	1	-	13.85	14.00	1.035	100	1.000	0.04	0.301	0.312
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8(8)	-	Simultaneous DBS	Standard Battery	138	5690	1	-	10.78	11.00	1.052	100	1.000	0.09	0.026	0.027
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8(8)	-	Simultaneous DBS	Standard Battery	138	5690	1	-	10.78	11.00	1.052	100	1.000	-0.06	0.143	0.150
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 7+8(7)	-	Full power	Standard Battery	110	5550	1	Soft Holster	18.72	19.00	1.067	100	1.000	0.03	0.111	0.118
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 7+8(7)	-	Full power	Standard Battery	110	5550	1	Soft Holster	18.72	19.00	1.067	100	1.000	0.03	0.717	0.765
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	15mm	Ant 7+8(8)	-	Full power	Standard Battery	159	5795	1	-	18.55	19.00	1.109	100	1.000	0.01	0.226	0.251
77	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	-	Full power	Standard Battery	159	5795	1	-	18.55	19.00	1.109	100	1.000	0.06	1.220	1.353
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	-	Full power	Standard Battery	159	5795	2	-	18.55	19.00	1.109	100	1.000	0.01	0.733	0.813
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	3.5mm PTT	Full power	Standard Battery	159	5795	1	-	18.55	19.00	1.109	100	1.000	-0.04	0.795	0.882
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	Type C Audio	Full power	Standard Battery	159	5795	1	-	18.55	19.00	1.109	100	1.000	0.06	0.712	0.790
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	-	Full power	BLE Beacon	159	5795	1	-	18.55	19.00	1.109	100	1.000	0.01	0.829	0.920
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(8)	-	Full power	Extended	159	5795	1	-	18.55	19.00	1.109	100	1.000	0.03	0.790	0.876
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 7+8(7)	-	Full power	Standard Battery	151	5755	1	-	18.67	19.00	1.079	100	1.000	0.03	0.991	1.069
	WLAN5.8GHz	802.11a 6Mbps	Back	15mm	Ant 7+8(8)	-	Full power	Standard Battery	165	5825	1	-	18.83	19.00	1.040	99.05	1.010	0.06	1.060	1.113
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8(7)	-	Standalone DBS	Standard Battery	155	5775	1	-	15.26	15.50	1.057	100	1.000	-0.04	0.107	0.113
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8(7)	-	Standalone DBS	Standard Battery	155	5775	1	-	15.26	15.50	1.057	100	1.000	0.06	0.587	0.620
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8(7)	-	Simultaneous Non DBS	Standard Battery	155	5775	1	-	13.22	13.50	1.067	100	1.000	0.01	0.069	0.074
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8(7)	-	Simultaneous Non DBS	Standard Battery	155	5775	1	-	13.22	13.50	1.067	100	1.000	0.04	0.381	0.406
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 7+8(7)	-	Simultaneous DBS	Standard Battery	155	5775	1	-	10.25	10.50	1.059	100	1.000	0.02	0.030	0.032
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 7+8(7)	-	Simultaneous DBS	Standard Battery	155	5775	1	-	10.25	10.50	1.059	100	1.000	0.09	0.166	0.176
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	0mm	Ant 7+8(8)	-	Full power	Standard Battery	159	5795	1	Soft Holster	18.55	19.00	1.109	100	1.000	0.03	0.119	0.132
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	0mm	Ant 7+8(8)	-	Full power	Standard Battery	159	5795	1	Soft Holster	18.55	19.00	1.109	100	1.000	0.05	0.488	0.541



15.4 Product specific 10g SAR

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Power State, Battery, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measured 10g SAR (W/kg), Reported 10g SAR (W/kg). Rows are grouped by frequency bands: 1750MHz, 1900MHz, and 1750MHz.



FCC SAR Test Report

Report No. : FA311601

Table with columns for LTE Band, Modulation, Power, Frequency, etc. Includes rows for LTE Bands 2, 7, and 42, and FR1 bands n2, n7, n41. Includes a section for 2600MHz and 3500MHz-3900MHz.



FCC SAR Test Report

Report No. : FA311601

	LTE Band 42	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	DSI 0	Extended	42990	3540	1	22.62	23.50	1.225	62.9	1.006	0.03	2.150	2.649
	LTE Band 42	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	DSI 0	Standard Battery	42590	3500	1	21.88	23.00	1.294	62.9	1.006	0.06	1.770	2.304
	LTE Band 42	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	DSI 0	Standard Battery	42190	3460	1	21.85	23.00	1.303	62.9	1.006	-0.01	1.690	2.216
	LTE Band 42	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	DSI 0	Standard Battery	42990	3540	1	21.82	23.00	1.312	62.9	1.006	-0.02	1.810	2.389
	LTE Band 42	20M	QPSK	100	0	-	Right Side	0mm	Ant 5	DSI 0	Standard Battery	42590	3500	1	21.84	23.00	1.306	62.9	1.006	-0.08	1.720	2.260
	FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	17.92	19.10	1.312	-	1.000	0.12	1.070	1.404
	FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	17.83	19.10	1.340	-	1.000	-0.13	1.000	1.340
	FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	17.92	19.10	1.312	-	1.000	-0.06	2.380	3.123
	FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Standard Battery	656000	3840	2	17.92	19.10	1.312	-	1.000	0.01	1.980	2.598
	FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	BLE Beacon	656000	3840	1	17.92	19.10	1.312	-	1.000	-0.04	2.250	2.952
	FR1 n77 HPUE Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Extended	656000	3840	1	17.92	19.10	1.312	-	1.000	0.04	2.210	2.900
	FR1 n77 HPUE Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	17.83	19.10	1.340	-	1.000	0.15	2.190	2.934
	FR1 n77 HPUE Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	17.81	19.10	1.346	-	1.000	-0.15	2.100	2.826
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	1	18.07	19.10	1.268	-	1.000	0.15	0.712	0.903
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	1	18.00	19.10	1.288	-	1.000	-0.15	0.753	0.970
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	1	18.07	19.10	1.268	-	1.000	-0.01	1.070	1.356
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	2	18.07	19.10	1.268	-	1.000	0.06	0.937	1.188
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	BLE Beacon	633334	3500.01	1	18.07	19.10	1.268	-	1.000	-0.04	1.010	1.280
	FR1 n77 HPUE Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Extended	633334	3500.01	1	18.07	19.10	1.268	-	1.000	0.04	1.050	1.331
	FR1 n77 HPUE Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Standard Battery	633334	3500.01	1	18.00	19.10	1.288	-	1.000	0.15	1.000	1.288
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Standard Battery	656000	3840	1	21.22	22.50	1.343	-	1.000	-0.11	1.330	1.786
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Standard Battery	656000	3840	1	21.15	22.50	1.365	-	1.000	0.03	1.390	1.897
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Standard Battery	656000	3840	2	21.15	22.50	1.365	-	1.000	0.05	1.240	1.692
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	BLE Beacon	656000	3840	1	21.15	22.50	1.365	-	1.000	0.02	1.350	1.842
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Extended	656000	3840	1	21.15	22.50	1.365	-	1.000	0.06	1.330	1.815
88	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	1	21.35	22.50	1.303	-	1.000	-0.05	2.410	3.141
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	2	21.35	22.50	1.303	-	1.000	0.03	2.360	3.075
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	BLE Beacon	633334	3500.01	1	21.35	22.50	1.303	-	1.000	0.06	2.360	3.075
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Extended	633334	3500.01	1	21.35	22.50	1.303	-	1.000	0.01	2.310	3.010
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	1	21.27	22.50	1.327	-	1.000	0.02	2.310	3.066
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 6	DSI 0	Standard Battery	633334	3500.01	1	21.16	22.50	1.361	-	1.000	0.09	2.220	3.022



Table with columns: Plot No., Band, Mode, Test Position, Gap (mm), Antenna, Power State, Battery, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measured 10g SAR (W/kg), Reported 10g SAR (W/kg). Includes rows for WLAN5.2GHz and WLAN5.3GHz across various modes and test positions.



FCC SAR Test Report

Report No. : FA311601

	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+8(8)	Simultaneous Non DBS	Standard Battery	138	5690	1	13.85	14.00	1.035	100	1.000	0.06	0.270	0.279
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 7+8(8)	Simultaneous Non DBS	Standard Battery	138	5690	1	13.85	14.00	1.035	100	1.000	0.07	0.010	0.010
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 7+8(8)	Simultaneous Non DBS	Standard Battery	138	5690	1	13.85	14.00	1.035	100	1.000	-0.01	0.503	0.521
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 7+8(8)	Simultaneous Non DBS	Standard Battery	138	5690	1	13.85	14.00	1.035	100	1.000	0.03	0.228	0.236
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 7+8(8)	Simultaneous DBS	Standard Battery	138	5690	1	10.78	11.00	1.052	100	1.000	0.17	0.068	0.072
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+8(8)	Simultaneous DBS	Standard Battery	138	5690	1	10.78	11.00	1.052	100	1.000	-0.03	0.131	0.138
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 7+8(8)	Simultaneous DBS	Standard Battery	138	5690	1	10.78	11.00	1.052	100	1.000	-0.01	0.005	0.005
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 7+8(8)	Simultaneous DBS	Standard Battery	138	5690	1	10.78	11.00	1.052	100	1.000	0.03	0.245	0.258
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 7+8(8)	Simultaneous DBS	Standard Battery	138	5690	1	10.78	11.00	1.052	100	1.000	0.03	0.111	0.117
92	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 7+8(8)	Full power	Standard Battery	165	5825	1	18.83	19.00	1.040	99.05	1.010	-0.09	2.350	2.467
	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 7+8(8)	Full power	Standard Battery	165	5825	2	18.83	19.00	1.040	99.05	1.010	0.03	2.190	2.299
	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 7+8(8)	Full power	BLE Beacon	165	5825	1	18.83	19.00	1.040	99.05	1.010	0.07	2.160	2.268
	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 7+8(8)	Full power	Extended	165	5825	1	18.83	19.00	1.040	99.05	1.010	-0.01	2.140	2.247
	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 7+8(8)	Full power	Standard Battery	149	5745	1	18.79	19.00	1.049	99.05	1.010	0.05	2.260	2.395
	WLAN5.8GHz	802.11a 6Mbps	Right Side	0mm	Ant 7+8(8)	Full power	Standard Battery	165	5825	1	18.83	19.00	1.040	99.05	1.010	0.02	1.830	1.921
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+8(7)	Standalone DBS	Standard Battery	155	5775	1	15.26	15.50	1.057	100	1.000	0.06	1.110	1.173
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 7+8(7)	Standalone DBS	Standard Battery	155	5775	1	15.26	15.50	1.057	100	1.000	0.03	0.903	0.954
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	155	5775	1	13.22	13.50	1.067	100	1.000	0.09	0.679	0.724
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 7+8(7)	Simultaneous Non DBS	Standard Battery	155	5775	1	13.22	13.50	1.067	100	1.000	0.04	0.552	0.589
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	155	5775	1	10.25	10.50	1.059	100	1.000	0.02	0.318	0.337
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 7+8(7)	Simultaneous DBS	Standard Battery	155	5775	1	10.25	10.50	1.059	100	1.000	0.06	0.259	0.274



15.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Battery	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Standard Battery	167300	836.5	1	23.37	24.00	1.156	-	1.000	0.05	0.948	1	1.096
2nd	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	Standard Battery	167300	836.5	1	23.37	24.00	1.156	-	1.000	0.02	0.933	1.016	1.079
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Standard Battery	1413	1732.6	1	21.86	22.70	1.213	-	1.000	-0.04	1.030	1	1.250
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Standard Battery	1413	1732.6	1	21.86	22.70	1.213	-	1.000	0.06	1.010	1.020	1.226
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Standard Battery	9400	1880	1	22.90	23.50	1.148	-	1.000	-0.08	0.993	1	1.140
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 1	Standard Battery	9400	1880	1	22.90	23.50	1.148	-	1.000	0.06	0.985	1.008	1.131
1st	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 1	Standard Battery	21100	2535	1	22.51	23.40	1.227	-	1.000	-0.01	0.908	1	1.115
2nd	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 1	Standard Battery	21100	2535	1	22.51	23.40	1.227	-	1.000	0.06	0.885	1.026	1.086
1st	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	22.81	23.50	1.172	62.9	1.006	-0.05	0.930	1	1.097
2nd	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	42590	3500	1	22.81	23.50	1.172	62.9	1.006	0.03	0.921	1.010	1.086
1st	FR1 n77 HPUE Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.38	22.20	1.208	-	1.000	0.15	0.927	1	1.120
2nd	FR1 n77 HPUE Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	Standard Battery	656000	3840	1	21.38	22.20	1.208	-	1.000	0.02	0.911	1.018	1.100
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Down power	Standard Battery	11	2462	1	19.40	19.50	1.023	98.28	1.018	0.06	1.190	1	1.240
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 7+8(7)	Down power	Standard Battery	11	2462	1	19.40	19.50	1.023	98.28	1.018	0.03	1.140	1.044	1.188
1st	WLAN5.2GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	10mm	Ant 7+8(7)	Down power	Standard Battery	46	5230	1	18.25	18.50	1.059	100	1.000	-0.07	1.220	1	1.292
2nd	WLAN5.2GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	10mm	Ant 7+8(7)	Down power	Standard Battery	46	5230	1	18.25	18.50	1.059	100	1.000	0.01	1.190	1.025	1.261
1st	WLAN5.5GHz	-	-	-	-	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 7+8(7)	Full power	Standard Battery	110	5550	1	18.72	19.00	1.067	100	1.000	-0.04	1.210	1	1.291
2nd	WLAN5.5GHz	-	-	-	-	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 7+8(7)	Full power	Standard Battery	110	5550	1	18.72	19.00	1.067	100	1.000	0.03	1.200	1.008	1.280
1st	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Down power	Standard Battery	155	5775	1	17.32	17.50	1.042	100	1.000	-0.05	1.280	1	1.334
2nd	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	10mm	Ant 7+8(7)	Down power	Standard Battery	155	5775	1	17.32	17.50	1.042	100	1.000	0.02	1.260	1.016	1.313

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Battery	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 0	Standard Battery	1413	1732.6	1	22.84	24.00	1.306	-	1.000	-0.08	2.520	1	3.292
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 0	Standard Battery	1413	1732.6	1	22.84	24.00	1.306	-	1.000	0.01	2.480	1.016	3.239
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 0	Standard Battery	9538	1907.6	1	22.74	24.00	1.337	-	1.000	-0.06	2.510	1	3.355
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 0	Standard Battery	9538	1907.6	1	22.74	24.00	1.337	-	1.000	0.03	2.490	1.008	3.328
1st	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 0	Standard Battery	518598	2592.99	1	20.84	21.80	1.247	-	1.000	-0.02	2.470	1	3.081
2nd	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 0	Standard Battery	518598	2592.99	1	20.84	21.80	1.247	-	1.000	0.03	2.430	1.016	3.031
1st	LTE Band 42	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	DSI 0	Standard Battery	42990	3540	1	22.62	23.50	1.225	62.9	1.006	-0.05	2.460	1	3.031
2nd	LTE Band 42	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	DSI 0	Standard Battery	42990	3540	1	22.62	23.50	1.225	62.9	1.006	0.03	2.420	1.017	2.981
1st	FR1 n77 HPUE Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	17.92	19.10	1.312	-	1.000	-0.06	2.380	1	3.123
2nd	FR1 n77 HPUE Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 0	Standard Battery	656000	3840	1	17.92	19.10	1.312	-	1.000	0.02	2.330	1.021	3.057
1st	WLAN5.5GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	0mm	Ant 7+8(7)	Full power	Standard Battery	110	5550	1	18.72	19.00	1.067	100	1.000	-0.07	2.240	1	2.389
2nd	WLAN5.5GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	0mm	Ant 7+8(7)	Full power	Standard Battery	110	5550	1	18.72	19.00	1.067	100	1.000	0.02	2.200	1.018	2.347
1st	WLAN5.8GHz	-	-	-	-	802.11a 6Mbps	Back	0mm	Ant 7+8(8)	Full power	Standard Battery	165	5825	1	18.83	19.00	1.040	99.05	1.010	-0.09	2.350	1	2.467
2nd	WLAN5.8GHz	-	-	-	-	802.11a 6Mbps	Back	0mm	Ant 7+8(8)	Full power	Standard Battery	165	5825	1	18.83	19.00	1.040	99.05	1.010	0.02	2.320	1.013	2.436

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/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 + WLAN6GHz	Yes	Yes	Yes	Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	WLAN2.4GHz Ant8 + Bluetooth	Yes	Yes	Yes	Yes
6.	WWAN + WLAN2.4GHz Ant8 + Bluetooth	Yes	Yes	Yes	Yes
7.	WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
8.	WLAN2.4GHz + WLAN6GHz	Yes	Yes	Yes	Yes
9.	WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
10.	WLAN6GHz+ Bluetooth	Yes	Yes	Yes	Yes
11.	WWAN + WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
12.	WWAN + WLAN2.4GHz + WLAN6GHz	Yes	Yes	Yes	Yes
13.	WWAN + WLAN5GHz + WLAN2.4GHz Ant8 + Bluetooth	Yes	Yes	Yes	Yes
14.	WWAN + WLAN6GHz + WLAN2.4GHz Ant8 + Bluetooth	Yes	Yes	Yes	Yes
15.	WWAN + WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
16.	WWAN + WLAN6GHz+ Bluetooth	Yes	Yes	Yes	Yes
17.	WWAN + WLAN2.4GHz+NFC				Yes
18.	WWAN + WLAN5GHz+NFC				Yes
19.	WWAN + WLAN6GHz+NFC				Yes
20.	WWAN + Bluetooth+NFC				Yes
21.	WLAN2.4GHz + WLAN5GHz+NFC				Yes
22.	WLAN2.4GHz + WLAN6GHz+NFC				Yes
23.	WLAN5GHz+ Bluetooth+NFC				Yes
24.	WLAN6GHz+ Bluetooth+NFC				Yes
25.	WWAN + WLAN2.4GHz + WLAN5GHz+NFC				Yes
26.	WWAN + WLAN2.4GHz + WLAN6GHz+NFC				Yes
27.	WWAN + WLAN5GHz+ Bluetooth+NFC				Yes
28.	WWAN + WLAN6GHz+ Bluetooth+NFC				Yes
29.	WLAN2.4GHz Ant8 + Bluetooth +NFC				Yes
30.	WWAN + WLAN2.4GHz Ant8 + Bluetooth+NFC				Yes
31.	WWAN + WLAN5GHz + WLAN2.4GHz Ant8 + Bluetooth+NFC				Yes
32.	WWAN + WLAN6GHz + WLAN2.4GHz Ant8 + Bluetooth+NFC				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.
- The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO and MIMO mode.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 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.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only). WLAN 6GHz has no hotspot function.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- WLAN 2.4GHz and Bluetooth share the same antenna, and they cannot transmit simultaneously each other.
- According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.



11. According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
12. According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz cannot transmit simultaneously.
13. According to the EUT characteristic, WLAN 2.4GHz Ant8 and Bluetooth Ant7 can transmit simultaneously.
14. NFC can transmit simultaneously with other Radios in extremity exposure condition.
15. For standalone WWAN, always choose the highest SAR among the selected WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.
16. The maximum SAR summation is calculated based on the same configuration and test position.
17. For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
18. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - v) The SPLSR calculated results please refer to section 16.6.
19. The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results. The simultaneous transmission and test exemption analysis per KDB 447498 D01, and the device does not support FR2 or another MPE field measurement, therefore SAR report in section 16 has include TER analysis requirement according to KDB 987594.

16.1 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. 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

Else, if $A + C > 1.0$ and/or $B + C > 1.0$, then the followings need to hold true for compliance:

- i. A and C are decoupled based on the SPLSR criteria, and
- ii. $(100-x)\% * B + C \leq 1.0$, and
- iii. $x\% * A + (100-x)\% * B \leq 1.0$

Note iii. is covered in Part 2 report; i. and ii. should be addressed in Part 2 report.

Above analysis is also apply to NR band UL MIMO, NR(SISO1) + NR(SISO2) + WLAN + BT simultaneous transmission, So UL MIMO no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of NR + WLAN + BT < 1.



16.2 Head Exposure Conditions

Table with columns for WWAN Band, Exposure Position, and SAR values for various frequency bands (1-18) and antenna configurations (1-18). Rows are categorized by technology (GSM, WCDMA, LTE) and antenna type.



FCC SAR Test Report

Report No. : FA311601

Table with columns for LTE Band 42 Ant 5 and rows for Left Tilted, Right Cheek, Right Tilted, Left Cheek, and Left Tilted. Values range from 0.052 to 0.27.

<5G NR >

Large table with columns for WWAN Band, Exposure Position, and various SAR/W/kg values for frequencies 1 through 18, plus additional columns for 2+14, 14+15, 7+11, 7+16, 3+11+14, 3+14+16, 1+8, 1+4+14, 5+12+14, 1+14+17, 1+9+13, 1+9+18, 1+5+13+14, and 1+5+14+18. Rows include FR1 n2 Ant 1, FR1 n5 Ant 6, FR1 n7 Ant 2, FR1 n6 Ant 1, FR1 n7 Ant 0, FR1 n4 Ant 0, FR1 n4 Ant 2, FR1 n4 Ant 3, FR1 n4 Ant 4, FR1 n7 HPIE Part2Q Ant 5, and FR1 n7 Part2Q Ant 1.



FCC SAR Test Report

Report No. : FA311601

Table with 32 columns and 36 rows, containing numerical data for SAR tests. Rows are grouped by antenna type (Ant 1, Ant 0, Ant 5) and orientation (Right Cheek, Right Tilted, Left Cheek, Left Tilted).



16.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	2+14	10+14	7+11	3+11+14	1+8	1+4+14	1+12+14	1+9+13	1+5+13+14		
		WLAN2.4GHz Ant 8 Standalone Non-DBS	WLAN2.4GHz Ant 8 Standalone DBS	WLAN2.4GHz Ant 8 Simultaneous Non-DBS	WLAN2.4GHz Ant 8 Simultaneous DBS	WLAN2.4GHz Ant 7+8 Standalone Non-DBS	WLAN2.4GHz Ant 7+8 Standalone DBS	WLAN2.4GHz Ant 7+8 Simultaneous Non-DBS	WLAN2.4GHz Ant 7+8 Simultaneous DBS	WLAN5GHz Ant 7+8 Standalone Non-DBS	WLAN5GHz Ant 7+8 Standalone DBS	WLAN5GHz Ant 7+8 Simultaneous Non-DBS	WLAN5GHz Ant 7+8 Simultaneous DBS	Bluetooth Ant 7	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	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)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM	GSM850 Ant 0	Front	0.655	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.89	0.73	0.73	0.80	0.73	
		Back	0.615	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.96	0.89	0.95	0.95	0.92	
		Left side	0.287	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.35	0.32	0.31	0.32	0.31	
		Right side	0.278	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.67	0.63	0.64	0.63	0.63	
		Top side	0.660	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.95	0.69	0.85	0.89	0.77	
	GSM1900 Ant 2	Front	0.131	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.37	0.20	0.20	0.28	0.20	
		Back	0.294	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.64	0.57	0.63	0.63	0.60	
		Left side	0.275	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.34	0.30	0.29	0.31	0.30	
		Right side	0.013	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.41	0.37	0.37	0.37	0.36	
		Top side	0.100	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.39	0.13	0.29	0.33	0.21	
	WCDMA	WCDMA II Ant 1	Front	0.529	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.77	0.60	0.60	0.67	0.60
			Back	1.140	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.48	1.42	1.48	1.47	1.45
			Left side	0.135	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.20	0.16	0.15	0.17	0.16
			Right side	0.201	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.60	0.56	0.56	0.56	0.55
			Top side	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.29	0.03	0.19	0.23	0.11	0.11
WCDMA IV Ant 1		Front	0.564	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.80	0.64	0.63	0.71	0.63	
		Back	1.250	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.59	1.53	1.59	1.58	1.56	
		Left side	0.109	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.17	0.14	0.13	0.15	0.13	
		Right side	0.205	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.60	0.56	0.57	0.56	0.56	
		Top side	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.29	0.03	0.19	0.23	0.11	0.11	
WCDMA V Ant 0		Front	0.227	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.47	0.30	0.30	0.37	0.30	
		Back	0.450	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.79	0.73	0.79	0.78	0.76	
		Left side	0.234	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.30	0.26	0.25	0.27	0.26	
		Right side	0.190	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.58	0.54	0.55	0.55	0.54	
		Top side	0.487	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.77	0.52	0.68	0.71	0.59	
LTE	LTE Band 2 Ant 1	Front	0.573	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.81	0.65	0.64	0.72	0.64	
		Back	1.208	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.55	1.49	1.55	1.54	1.52	
		Left side	0.153	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.22	0.18	0.17	0.19	0.18	
		Right side	0.225	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.62	0.58	0.59	0.58	0.58	
		Top side	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.29	0.03	0.19	0.23	0.11	0.11	
	LTE Band 5 Ant 0	Front	0.172	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.41	0.25	0.24	0.32	0.24	
		Back	0.218	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.56	0.50	0.56	0.55	0.53	
		Left side	0.174	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.24	0.20	0.19	0.21	0.20	
		Right side	0.157	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.55	0.51	0.52	0.51	0.51	
		Top side	0.390	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.68	0.42	0.58	0.62	0.50	
	LTE Band 7 Ant 2	Front	0.137	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.38	0.21	0.21	0.28	0.21	
		Back	1.115	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.46	1.39	1.45	1.45	1.42	
		Left side	0.791	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.85	0.82	0.81	0.83	0.81	
		Right side	0.049	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.44	0.40	0.41	0.41	0.40	
		Top side	0.152	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.44	0.18	0.34	0.38	0.26	
LTE Band 13 Ant 0	Front	0.038	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.28	0.11	0.11	0.18	0.11		
	Back	0.064	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.41	0.34	0.40	0.40	0.37		
	Left side	0.038	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.10	0.07	0.06	0.08	0.06		
	Right side	0.013	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.41	0.37	0.37	0.37	0.36		
	Top side	0.019	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.31	0.05	0.21	0.25	0.13		
LTE Band 17 Ant 0	Front	0.250	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.49	0.32	0.32	0.39	0.32		
	Back	0.288	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.63	0.57	0.63	0.62	0.60		



	Left side	0.277	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.34	0.31	0.30	0.31	0.30
	Right side	0.185	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.58	0.54	0.55	0.54	0.54
	Top side	0.225	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.51	0.25	0.42	0.45	0.33
LTE Band 66 Ant 1	Front	0.534	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.77	0.61	0.60	0.68	0.60
	Back	1.191	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.54	1.47	1.53	1.52	1.50
	Left side	0.104	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.17	0.13	0.12	0.14	0.13
	Right side	0.173	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.57	0.53	0.53	0.53	0.52
	Top side		0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.29	0.03	0.19	0.23	0.11
	Bottom side	0.975														0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.98	0.98
LTE Band 71 Ant 0	Front	0.206	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.45	0.28	0.28	0.35	0.28
	Back	0.330	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.67	0.61	0.67	0.66	0.64
	Left side	0.307	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.37	0.34	0.33	0.34	0.33
	Right side	0.247	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.64	0.60	0.61	0.60	0.60
	Top side	0.168	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.46	0.20	0.36	0.39	0.27
LTE Band 41 Ant 2	Front	0.117	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.36	0.19	0.19	0.26	0.19
	Back	0.740	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.08	1.02	1.08	1.07	1.05
	Left side	0.594	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.66	0.62	0.61	0.63	0.62
	Right side	0.024	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.42	0.38	0.39	0.38	0.38
	Top side	0.098	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.39	0.13	0.29	0.32	0.20
LTE Band 42 Ant 5	Front	0.239	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.48	0.31	0.31	0.38	0.31
	Back	0.841	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.19	1.12	1.18	1.17	1.15
	Left side		0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.06	0.03	0.02	0.04	0.02
	Right side	1.133	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	1.53	1.49	1.49	1.49	1.48
	Top side	0.142	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.43	0.17	0.33	0.37	0.25



<5G NR >

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	2+14	10+14	7+11	3+11+14	1+8	1+4+14	+12+14	+9+13	1+5+13+14	
		WLAN2.4GHz Ant 0 Standalone Non DBS	WLAN2.4GHz Ant 8 Standalone DBS	WLAN2.4GHz Ant 8 Simultaneous Non DBS	WLAN2.4GHz Ant 8 Simultaneous DBS	WLAN2.4GHz Ant 7+8 Standalone Non DBS	WLAN2.4GHz Ant 7+8 Standalone DBS	WLAN2.4GHz Ant 7+8 Simultaneous Non DBS	WLAN2.4GHz Ant 7+8 Simultaneous DBS	WLAN5GHz Ant 7+8 Standalone Non DBS	WLAN5GHz Ant 7+8 Standalone DBS	WLAN5GHz Ant 7+8 Simultaneous Non DBS	WLAN5GHz Ant 7+8 Simultaneous DBS	Bluetooth Ant 7	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	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)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	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 1	Front	0.568	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.81	0.64	0.64	0.71	0.64	
	Back	1.045	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.39	1.32	1.38	1.38	1.35	
	Left side	0.195	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.26	0.22	0.21	0.23	0.22	
	Right side	0.198	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.59	0.55	0.56	0.55	0.55	
	Top side	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.29	0.03	0.19	0.23	0.11		
	Bottom side	1.002														0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	
FR1 n5 Ant 0	Front	0.306	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.55	0.38	0.38	0.45	0.38	
	Back	0.319	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.66	0.60	0.66	0.65	0.63	
	Left side	0.143	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.21	0.17	0.16	0.18	0.17	
	Right side	0.135	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.53	0.49	0.50	0.49	0.49	
	Top side	0.357	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.64	0.39	0.55	0.58	0.46	
	Bottom side	0.153	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.39	0.23	0.22	0.30	0.22	
FR1 n7 Ant 2	Front	1.126	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.47	1.40	1.47	1.46	1.43	
	Back	0.705	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.77	0.73	0.72	0.74	0.73	
	Left side	0.881	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.39	0.35	0.36	0.36	0.35		
	Right side	0.144	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.43	0.17	0.33	0.37	0.25	
	Top side	0.425	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.66	0.50	0.50	0.57	0.50	
	Bottom side	0.993	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.34	1.27	1.33	1.33	1.30	
FR1 n66 Ant 1	Front	0.085	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.15	0.11	0.10	0.12	0.11	
	Back	0.140	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.53	0.49	0.50	0.50	0.49	
	Left side	0.722														0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.72	0.72	
	Right side	0.221	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.46	0.29	0.29	0.37	0.29	
	Top side	0.317	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.66	0.59	0.66	0.65	0.63	
	Bottom side	0.280	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.34	0.31	0.30	0.32	0.30	
FR1 n71 Ant 0	Front	0.167	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.45	0.20	0.36	0.39	0.27	
	Back	0.242	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.48	0.32	0.31	0.39	0.31	
	Left side	1.114	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.46	1.39	1.45	1.45	1.42	
	Right side	0.027	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.42	0.38	0.39	0.38	0.38	
	Top side	0.401	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.69	0.43	0.59	0.63	0.51	
	Bottom side	0.162	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.40	0.24	0.23	0.31	0.23	
FR1 n41 Ant 2	Front	1.128	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.47	1.41	1.47	1.46	1.44	
	Back	0.795	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.86	0.82	0.81	0.83	0.82	
	Left side	0.031	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.43	0.39	0.39	0.39	0.38	
	Right side	0.167	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.45	0.20	0.36	0.39	0.27	
	Top side	0.323	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.56	0.40	0.39	0.47	0.39	
	Bottom side	0.388	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.73	0.67	0.73	0.72	0.70	
FR1 n41 Ant 3	Front	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.06	0.03	0.02	0.04	0.02		
	Back	0.422	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.82	0.78	0.78	0.78	0.77	
	Left side	0.052	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.34	0.08	0.24	0.28	0.16	
	Right side	0.078	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.47	0.43	0.44	0.43	0.43	
	Top side	0.073	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.36	0.10	0.26	0.30	0.18	
	Bottom side	0.381	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.62	0.45	0.45	0.53	0.45	
FR1 n41 Ant 4	Front	0.695	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.04	0.97	1.03	1.03	1.00	
	Back	0.768	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12							



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	Top side	0.229	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.52	0.26	0.42	0.46	0.34
FR1 n77 HPUE Part27Q Ant 5	Front	0.159	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.40	0.23	0.23	0.30	0.23
	Back	0.876	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.22	1.15	1.22	1.21	1.18
	Left side	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.06	0.03	0.02	0.04	0.02	
	Right side	0.896	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	1.29	1.25	1.26	1.25	1.25
	Top side	0.120	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.41	0.15	0.31	0.35	0.23
FR1 n77 Part27Q Ant 1	Front	0.310	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.55	0.38	0.38	0.45	0.38
	Back	0.598	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.94	0.88	0.94	0.93	0.91
	Left side	0.235	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.30	0.26	0.25	0.27	0.26
	Right side	0.202	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.60	0.56	0.56	0.56	0.55
	Top side	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.29	0.03	0.19	0.23	0.11	
FR1 n77 Part27Q Ant 1	Front	0.356	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.60	0.43	0.43	0.50	0.43
	Back	0.699	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.04	0.98	1.04	1.03	1.01
	Left side	0.329	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.39	0.36	0.35	0.37	0.35
	Right side	0.368	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.76	0.72	0.73	0.72	0.72
	Top side	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.29	0.03	0.19	0.23	0.11	
FR1 n77 Part27Q Ant 0	Front	0.250	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.49	0.32	0.32	0.39	0.32
	Back	0.593	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	0.94	0.87	0.93	0.93	0.90
	Left side	0.365	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.43	0.39	0.38	0.40	0.39
	Right side	0.050	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.44	0.40	0.41	0.41	0.40
	Top side	0.353	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.64	0.38	0.54	0.58	0.46
FR1 n77 Part27Q Ant 0	Front	0.221	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.46	0.29	0.29	0.37	0.29
	Back	0.651	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.00	0.93	0.99	0.98	0.96
	Left side	0.301	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.36	0.33	0.32	0.34	0.32
	Right side	0.040	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.43	0.39	0.40	0.40	0.39
	Top side	0.309	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.60	0.34	0.50	0.54	0.42
FR1 n77 Part27Q Ant 6	Front	0.099	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.34	0.17	0.17	0.24	0.17
	Back	0.950	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.29	1.23	1.29	1.28	1.26
	Left side	0.082	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.14	0.11	0.10	0.12	0.10
	Right side	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.39	0.35	0.36	0.36	0.35	
	Top side	0.660	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.95	0.69	0.85	0.89	0.77
FR1 n77 Part27Q Ant 6	Front	0.083	0.143	0.123	0.072	0.036	0.533	0.363	0.239	0.111	0.234	0.115	0.069	0.033	0.001	0.14	0.24	0.48	0.24	0.32	0.16	0.15	0.23	0.15
	Back	1.120	0.544	0.468	0.276	0.136	0.768	0.522	0.344	0.161	1.334	0.589	0.338	0.171	0.001	0.55	1.34	1.11	1.06	1.46	1.40	1.46	1.45	1.43
	Left side	0.098	0.052	0.045	0.027	0.013	0.140	0.095	0.062	0.029	0.059	0.026	0.018	0.008	0.001	0.05	0.06	0.12	0.07	0.16	0.13	0.12	0.14	0.12
	Right side	0.683	0.588	0.346	0.171	0.881	0.599	0.394	0.184	1.292	0.615	0.353	0.172	0.008	0.69	1.30	1.21	1.21	0.39	0.35	0.36	0.36	0.35	
	Top side	0.435	0.053	0.046	0.027	0.013	0.640	0.435	0.287	0.134	0.668	0.330	0.189	0.092	0.001	0.05	0.67	0.77	0.38	0.72	0.46	0.63	0.66	0.54



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FR1 n77 HPUE Part270 Ant 5	Back	0.239	0.257	0.257	0.257	0.166	0.336	0.336	0.336	0.170	1.353	0.620	0.406	0.176	0.003	0.341	0.341	0.341	0.341	0.26	1.36	0.34	0.96	0.68	0.88	0.60	0.57	0.50	0.65	0.58	0.58	0.75	0.58	0.75
	Front	0.102	0.065	0.065	0.065	0.042	0.204	0.204	0.204	0.103	0.251	0.155	0.108	0.047	0.001	0.080	0.080	0.080	0.080	0.07	0.25	0.08	0.36	0.28	0.22	0.15	0.31	0.17	0.21	0.18	0.25	0.29	0.19	0.23
FR1 n77 HPUE Part270 Ant 5	Back	0.340	0.257	0.257	0.257	0.166	0.336	0.336	0.336	0.170	1.353	0.620	0.406	0.176	0.003	0.341	0.341	0.341	0.341	0.26	1.36	0.34	0.96	0.68	0.88	0.60	0.68	0.60	0.75	0.68	0.69	0.85	0.69	0.85
	Front	0.087	0.065	0.065	0.065	0.042	0.204	0.204	0.204	0.103	0.251	0.155	0.108	0.047	0.001	0.080	0.080	0.080	0.080	0.07	0.25	0.08	0.36	0.28	0.22	0.15	0.29	0.15	0.20	0.17	0.24	0.27	0.18	0.21
FR1 n77 Part270 Ant 1	Back	0.383	0.257	0.257	0.257	0.166	0.336	0.336	0.336	0.170	1.353	0.620	0.406	0.176	0.003	0.341	0.341	0.341	0.341	0.26	1.36	0.34	0.96	0.68	0.88	0.60	0.72	0.64	0.79	0.73	0.73	0.89	0.73	0.89
	Front	0.155	0.065	0.065	0.065	0.042	0.204	0.204	0.204	0.103	0.251	0.155	0.108	0.047	0.001	0.080	0.080	0.080	0.080	0.07	0.25	0.08	0.36	0.28	0.22	0.15	0.36	0.22	0.26	0.24	0.31	0.34	0.25	0.28
FR1 n77 Part270 Ant 1	Back	0.390	0.257	0.257	0.257	0.166	0.336	0.336	0.336	0.170	1.353	0.620	0.406	0.176	0.003	0.341	0.341	0.341	0.341	0.26	1.36	0.34	0.96	0.68	0.88	0.60	0.73	0.65	0.80	0.73	0.74	0.90	0.74	0.90
	Front	0.060	0.065	0.065	0.065	0.042	0.204	0.204	0.204	0.103	0.251	0.155	0.108	0.047	0.001	0.080	0.080	0.080	0.080	0.07	0.25	0.08	0.36	0.28	0.22	0.15	0.26	0.13	0.17	0.14	0.21	0.24	0.15	0.18
FR1 n77 Part270 Ant 1	Back	0.399	0.257	0.257	0.257	0.166	0.336	0.336	0.336	0.170	1.353	0.620	0.406	0.176	0.003	0.341	0.341	0.341	0.341	0.26	1.36	0.34	0.96	0.68	0.88	0.60	0.74	0.66	0.81	0.74	0.75	0.91	0.74	0.91
	Front	0.238	0.065	0.065	0.065	0.042	0.204	0.204	0.204	0.103	0.251	0.155	0.108	0.047	0.001	0.080	0.080	0.080	0.080	0.07	0.25	0.08	0.36	0.28	0.22	0.15	0.44	0.30	0.35	0.32	0.39	0.42	0.33	0.36
FR1 n77 Part270 Ant 6	Back	0.455	0.257	0.257	0.257	0.166	0.336	0.336	0.336	0.170	1.353	0.620	0.406	0.176	0.003	0.341	0.341	0.341	0.341	0.26	1.36	0.34	0.96	0.68	0.88	0.60	0.79	0.72	0.86	0.80	0.80	0.97	0.80	0.97
	Front	0.120	0.065	0.065	0.065	0.042	0.204	0.204	0.204	0.103	0.251	0.155	0.108	0.047	0.001	0.080	0.080	0.080	0.080	0.07	0.25	0.08	0.36	0.28	0.22	0.15	0.32	0.19	0.23	0.20	0.27	0.30	0.21	0.24
FR1 n77 Part270 Ant 6	Back	0.381	0.257	0.257	0.257	0.166	0.336	0.336	0.336	0.170	1.353	0.620	0.406	0.176	0.003	0.341	0.341	0.341	0.341	0.26	1.36	0.34	0.96	0.68	0.88	0.60	0.72	0.64	0.79	0.73	0.73	0.89	0.73	0.89
	Front	0.109	0.065	0.065	0.065	0.042	0.204	0.204	0.204	0.103	0.251	0.155	0.108	0.047	0.001	0.080	0.080	0.080	0.080	0.07	0.25	0.08	0.36	0.28	0.22	0.15	0.31	0.18	0.22	0.19	0.26	0.29	0.20	0.23
FR1 n77 Part270 Ant 6	Back	0.528	0.257	0.257	0.257	0.166	0.336	0.336	0.336	0.170	1.353	0.620	0.406	0.176	0.003	0.341	0.341	0.341	0.341	0.26	1.36	0.34	0.96	0.68	0.88	0.60	0.86	0.79	0.94	0.87	0.87	1.04	0.87	1.04
	Front	0.048	0.065	0.065	0.065	0.042	0.204	0.204	0.204	0.103	0.251	0.155	0.108	0.047	0.001	0.080	0.080	0.080	0.080	0.07	0.25	0.08	0.36	0.28	0.22	0.15	0.25	0.11	0.16	0.13	0.20	0.23	0.14	0.17
FR1 n77 Part270 Ant 6	Back	0.500	0.257	0.257	0.257	0.166	0.336	0.336	0.336	0.170	1.353	0.620	0.406	0.176	0.003	0.341	0.341	0.341	0.341	0.26	1.36	0.34	0.96	0.68	0.88	0.60	0.84	0.76	0.91	0.84	0.85	1.01	0.85	1.01



16.5 Product specific 10g SAR Exposure Conditions

Remark:

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

(b)	WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	1+4+10	1+8+10	1+5+10	1+9+10
			WWAN	WLAN5GHz Ant 7+8 Standalone Non DBS	WLAN5GHz Ant 7+8 Standalone DBS	WLAN5GHz Ant 7+8 Simultaneous Non DBS	WLAN5GHz Ant 7+8 Simultaneous DBS	WLAN6GHz Ant 7+8 Standalone Non DBS	WLAN6GHz Ant 7+8 Standalone DBS	WLAN6GHz Ant 7+8 Simultaneous Non DBS	WLAN6GHz Ant 7+8 Simultaneous DBS	NFC Ant 9	Summed	Summed	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
WCDMA IV Ant 1	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	2.571	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.263	0.026	3.32	2.86	2.93	2.86
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
	Bottom side	3.292										0.001	3.29	3.29	3.29	3.29
LTE Band 66 Ant 1	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	2.435	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.263	0.026	3.19	2.72	2.80	2.72
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
	Bottom side	3.279										0.001	3.28	3.28	3.28	3.28
FR1 n66 Ant 1	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	2.271	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.263	0.026	3.02	2.56	2.63	2.56
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
	Bottom side	2.863										0.001	2.86	2.86	2.86	2.86
WCDMA II Ant 1	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	2.589	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.263	0.026	3.34	2.88	2.95	2.88
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
	Bottom side	3.355										0.001	3.36	3.36	3.36	3.36
LTE Band 2 Ant 1	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	2.605	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.263	0.026	3.36	2.89	2.97	2.89
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
	Bottom side	3.355										0.001	3.36	3.36	3.36	3.36
FR1 n2 Ant 1	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	2.102	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.263	0.026	2.85	2.39	2.47	2.39
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
	Bottom side	3.168										0.001	3.17	3.17	3.17	3.17
LTE Band 7 Ant 2	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	2.938	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.263	0.026	3.69	3.23	3.30	3.23
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
	Bottom side															
FR1 n7 Ant 2	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	2.548	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.263	0.026	3.30	2.84	2.91	2.84
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
	Bottom side															



FR1 n41 Ant 2	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	2.269	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.026	3.02	2.56	2.63	2.56
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
FR1 n41 Ant 0	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	3.081	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.026	3.83	3.37	3.44	3.37
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
LTE Band 42 Ant 5	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back		2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.026	0.75	0.29	0.36	0.29
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side	3.031	2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.002	3.82	3.61	3.52	3.61
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
FR1 n77 HPUE Part270 Ant 5	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	1.404	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.026	2.15	1.69	1.77	1.69
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side	3.123	2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.002	3.91	3.70	3.62	3.70
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
FR1 n77 HPUE Part27Q Ant 5	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	0.970	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.026	1.72	1.26	1.33	1.26
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side	1.356	2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.002	2.15	1.94	1.85	1.94
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
FR1 n77 Part270 Ant 6	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	1.897	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.026	2.65	2.19	2.26	2.19
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17
FR1 n77 Part270 Ant 6	Front		0.667	0.438	0.240	0.119	0.088	0.088	0.088	0.088	0.002	0.24	0.09	0.12	0.09
	Back	1.897	2.467	1.173	0.724	0.337	0.263	0.263	0.263	0.263	0.026	2.65	2.19	2.26	2.19
	Left side		0.052	0.043	0.024	0.012	0.003	0.003	0.003	0.003	0.003	0.03	0.01	0.02	0.01
	Right side		2.389	1.795	0.787	0.491	0.577	0.577	0.577	0.577	0.002	0.79	0.58	0.49	0.58
	Top side		1.077	0.773	0.425	0.212	0.164	0.164	0.164	0.164	0.001	0.43	0.17	0.21	0.17

Test Engineer : Martin Li, Varus Wang, Ricky Gu, 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

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- [6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.
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- [13] FCC KDB 941225 D06 v02r01, “SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities”, Oct 2015.
- [14] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

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