



<FR1 n77_Ant 0_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.35		
100	PI/2 BPSK	1	137		16.25		17.5
100	PI/2 BPSK	1	271		16.32		
100	PI/2 BPSK	135	0		16.19		
100	PI/2 BPSK	135	69		16.33		17.5
100	PI/2 BPSK	135	138		16.29		17.5
100	PI/2 BPSK	270	0		16.29		
100	QPSK	1	1		16.32		
100	QPSK	1	137		16.22		17.5
100	QPSK	1	271		16.33		
100	QPSK	135	0		16.22		
100	QPSK	135	69		16.25		17.5
100	QPSK	135	138		16.34		17.5
100	QPSK	270	0		16.32		
100	16QAM	1	1		16.22		
100	64QAM	1	1		16.16		17.5
100	256QAM	1	1		16.33		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.24	16.34	16.19	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.22	16.26	16.21	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.28	16.33	16.17	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.25	16.34	16.26	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.30	16.26	16.21	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.30	16.33	16.17	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.26	16.28	16.21	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.30	16.28	16.18	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.29	16.32	16.25	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.25	16.26	16.26	



<FR1 n77_Ant 2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.39		
100	PI/2 BPSK	1	137		16.37		17.0
100	PI/2 BPSK	1	271		16.32		
100	PI/2 BPSK	135	0		16.33		17.0
100	PI/2 BPSK	135	69		16.37		17.0
100	PI/2 BPSK	135	138		16.23		17.0
100	PI/2 BPSK	270	0		16.35		
100	QPSK	1	1		16.38		17.0
100	QPSK	1	137		16.34		
100	QPSK	1	271		16.28		
100	QPSK	135	0		16.36		17.0
100	QPSK	135	69		16.34		17.0
100	QPSK	135	138		16.25		17.0
100	QPSK	270	0		16.28		
100	16QAM	1	1		16.27		17.0
100	64QAM	1	1		16.11		17.0
100	256QAM	1	1		16.35		17.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.31	16.34	16.30	17.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.28	16.34	16.28	17.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.25	16.36	16.20	17.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.33	16.31	16.24	17.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.31	16.35	16.21	17.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.29	16.32	16.30	17.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.26	16.31	16.23	17.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.25	16.38	16.28	17.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.32	16.38	16.26	17.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.30	16.28	16.29	17.0



<FR1 n77_HPUE_Ant 0_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.89		
100	PI/2 BPSK	1	137		25.81		27.5
100	PI/2 BPSK	1	271		25.87		
100	PI/2 BPSK	135	0		25.49		27.0
100	PI/2 BPSK	135	69		25.80		27.5
100	PI/2 BPSK	135	138		25.45		27.0
100	PI/2 BPSK	270	0		25.42		
100	QPSK	1	1		25.84		27.5
100	QPSK	1	137		25.83		
100	QPSK	1	271		25.88		
100	QPSK	135	0		25.00		26.5
100	QPSK	135	69		25.77		27.5
100	QPSK	135	138		24.94		26.5
100	QPSK	270	0		24.92		
100	16QAM	1	1		25.08		26.5
100	64QAM	1	1		23.23		25.0
100	256QAM	1	1		21.28		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.67	25.86	25.67	27.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.76	25.87	25.68	27.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.68	25.84	25.67	27.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.68	25.79	25.73	27.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.76	25.79	25.66	27.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.73	25.86	25.69	27.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.75	25.87	25.69	27.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.69	25.83	25.69	27.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.68	25.80	25.73	27.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.71	25.81	25.75	27.5



<FR1 n77_HPUE_Ant 2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.29		
100	PI/2 BPSK	1	137		26.08		27.5
100	PI/2 BPSK	1	271		26.12		
100	PI/2 BPSK	135	0		25.42		27.0
100	PI/2 BPSK	135	69		25.98		27.5
100	PI/2 BPSK	135	138		25.41		27.0
100	PI/2 BPSK	270	0		25.40		
100	QPSK	1	1		25.84		27.5
100	QPSK	1	137		26.15		
100	QPSK	1	271		26.06		
100	QPSK	135	0		24.79		26.5
100	QPSK	135	69		25.82		27.5
100	QPSK	135	138		24.87		26.5
100	QPSK	270	0		24.90		
100	16QAM	1	1		24.58		26.5
100	64QAM	1	1		23.27		25.0
100	256QAM	1	1		21.40		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.08	26.25	26.20	27.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.12	26.22	26.18	27.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.10	26.21	26.20	27.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.17	26.23	26.23	27.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.16	26.24	26.22	27.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.16	26.26	26.20	27.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.14	26.25	26.23	27.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.14	26.20	26.22	27.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.15	26.22	26.22	27.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.11	26.21	26.22	27.5



<FR1 n77_HPUE_Ant 0_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.32		
100	PI/2 BPSK	1	137		19.29		20.5
100	PI/2 BPSK	1	271		19.31		
100	PI/2 BPSK	135	0		19.25		
100	PI/2 BPSK	135	69		19.26		20.5
100	PI/2 BPSK	135	138		19.18		20.5
100	PI/2 BPSK	270	0		19.25		
100	QPSK	1	1		19.31		
100	QPSK	1	137		19.30		20.5
100	QPSK	1	271		19.21		
100	QPSK	135	0		19.26		
100	QPSK	135	69		19.18		20.5
100	QPSK	135	138		19.26		20.5
100	QPSK	270	0		19.27		
100	16QAM	1	1		19.19		
100	64QAM	1	1		19.26		20.5
100	256QAM	1	1		19.27		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.26	19.31	19.21	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.11	19.23	19.13	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.20	19.18	19.09	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.14	19.18	19.08	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.19	19.21	19.07	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.19	19.20	19.07	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.17	19.16	19.12	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.14	19.16	19.11	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.16	19.16	19.15	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.14	19.17	19.10	



<FR1 n77_HPUE_Ant 2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.42		
100	PI/2 BPSK	1	137		19.36		20.0
100	PI/2 BPSK	1	271		19.31		
100	PI/2 BPSK	135	0		19.33		
100	PI/2 BPSK	135	69		19.36		20.0
100	PI/2 BPSK	135	138		19.23		20.0
100	PI/2 BPSK	270	0		19.34		
100	QPSK	1	1		19.36		
100	QPSK	1	137		19.34		20.0
100	QPSK	1	271		19.27		
100	QPSK	135	0		19.35		
100	QPSK	135	69		19.31		20.0
100	QPSK	135	138		19.25		20.0
100	QPSK	270	0		19.27		
100	16QAM	1	1		19.28		
100	64QAM	1	1		19.12		20.0
100	256QAM	1	1		19.34		20.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.29	19.38	19.33	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.17	19.27	19.16	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.12	19.29	19.20	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.19	19.30	19.22	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.19	19.28	19.17	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.12	19.29	19.18	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.20	19.26	19.16	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.18	19.23	19.16	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.18	19.27	19.17	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.14	19.24	19.16	



<FR1 n78_Ant 0_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.80		
100	PI/2 BPSK	1	137		23.78		25.0
100	PI/2 BPSK	1	271		23.79		
100	PI/2 BPSK	135	0		23.36		
100	PI/2 BPSK	135	69		23.78		24.5
100	PI/2 BPSK	135	138		23.35		25.0
100	PI/2 BPSK	270	0		23.41		
100	QPSK	1	1		23.78		
100	QPSK	1	137		23.79		25.0
100	QPSK	1	271		23.76		
100	QPSK	135	0		22.86		
100	QPSK	135	69		23.74		24.0
100	QPSK	135	138		22.82		25.0
100	QPSK	270	0		22.88		
100	16QAM	1	1		22.85		
100	64QAM	1	1		21.39		24.0
100	256QAM	1	1		19.53		22.5
Channel				649668	650000	650332	20.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.56	23.72	23.61	
Channel				649334	650000	650666	25.0
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.55	23.70	23.62	
Channel				649000	650000	651000	25.0
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.53	23.73	23.64	
Channel				648668	650000	651332	25.0
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.58	23.73	23.64	
Channel				648334	650000	651666	25.0
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.58	23.70	23.63	
Channel				648000	650000	652000	25.0
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.56	23.65	23.62	
Channel				647668	650000	652332	25.0
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.54	23.70	23.68	
Channel				647334	650000	652666	25.0
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.52	23.70	23.61	
Channel				647168	650000	652832	25.0
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.54	23.67	23.60	
Channel				647000	650000	653000	25.0
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.62	23.66	23.63	



<FR1 n78_Ant 2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.43		
100	PI/2 BPSK	1	137		23.26		25.0
100	PI/2 BPSK	1	271		23.40		
100	PI/2 BPSK	135	0		22.81		
100	PI/2 BPSK	135	69		23.32		24.5
100	PI/2 BPSK	135	138		22.89		25.0
100	PI/2 BPSK	270	0		22.80		
100	QPSK	1	1		23.36		
100	QPSK	1	137		23.29		25.0
100	QPSK	1	271		23.33		
100	QPSK	135	0		22.35		
100	QPSK	135	69		23.26		24.0
100	QPSK	135	138		22.32		25.0
100	QPSK	270	0		22.31		
100	16QAM	1	1		22.31		
100	64QAM	1	1		20.83		24.0
100	256QAM	1	1		19.14		22.5
Channel				649668	650000	650332	20.5
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.30	23.39	23.34	
Channel				649334	650000	650666	25.0
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.29	23.36	23.35	
Channel				649000	650000	651000	25.0
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.24	23.35	23.26	
Channel				648668	650000	651332	25.0
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.23	23.30	23.27	
Channel				648334	650000	651666	25.0
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.25	23.35	23.25	
Channel				648000	650000	652000	25.0
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.23	23.37	23.27	
Channel				647668	650000	652332	25.0
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.28	23.38	23.32	
Channel				647334	650000	652666	25.0
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.29	23.33	23.29	
Channel				647168	650000	652832	25.0
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.29	23.35	23.29	
Channel				647000	650000	653000	25.0
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.27	23.40	23.29	



<FR1 n78_Ant 0_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		16.85		
100	PI/2 BPSK	1	137		16.81		17.5
100	PI/2 BPSK	1	271		16.83		
100	PI/2 BPSK	135	0		16.79		
100	PI/2 BPSK	135	69		16.83		17.5
100	PI/2 BPSK	135	138		16.77		17.5
100	PI/2 BPSK	270	0		16.77		
100	QPSK	1	1		16.79		
100	QPSK	1	137		16.82		17.5
100	QPSK	1	271		16.83		
100	QPSK	135	0		16.77		
100	QPSK	135	69		16.75		17.5
100	QPSK	135	138		16.80		17.5
100	QPSK	270	0		16.82		
100	16QAM	1	1		16.71		
100	64QAM	1	1		16.78		17.5
100	256QAM	1	1		16.83		17.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.76	16.82	16.79	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.69	16.70	16.72	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.68	16.72	16.72	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.68	16.74	16.68	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.64	16.71	16.73	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.63	16.71	16.68	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.66	16.72	16.73	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.63	16.73	16.69	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.63	16.69	16.69	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.68	16.76	16.70	



<FR1 n78_Ant 2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		16.52		
100	PI/2 BPSK	1	137		16.22		17.0
100	PI/2 BPSK	1	271		16.36		
100	PI/2 BPSK	135	0		16.37		
100	PI/2 BPSK	135	69		16.26		17.0
100	PI/2 BPSK	135	138		16.16		17.0
100	PI/2 BPSK	270	0		16.24		
100	QPSK	1	1		16.47		
100	QPSK	1	137		16.20		17.0
100	QPSK	1	271		16.31		
100	QPSK	135	0		16.29		
100	QPSK	135	69		16.24		17.0
100	QPSK	135	138		16.18		17.0
100	QPSK	270	0		16.26		
100	16QAM	1	1		16.37		
100	64QAM	1	1		16.37		17.0
100	256QAM	1	1		16.40		17.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.43	16.49	16.32	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.44	16.41	16.14	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.49	16.36	16.19	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.45	16.34	16.18	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.46	16.32	16.17	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.45	16.33	16.21	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.48	16.31	16.23	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.48	16.40	16.23	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.45	16.32	16.14	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.43	16.31	16.16	



<FR1 n78_HPUE_Ant 0_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.27		27.5
100	PI/2 BPSK	1	137		26.16		
100	PI/2 BPSK	1	271		26.23		
100	PI/2 BPSK	135	0		25.74		27.0
100	PI/2 BPSK	135	69		26.23		27.5
100	PI/2 BPSK	135	138		25.75		27.0
100	PI/2 BPSK	270	0		25.78		
100	QPSK	1	1		26.16		27.5
100	QPSK	1	137		26.13		
100	QPSK	1	271		26.19		
100	QPSK	135	0		25.25		26.5
100	QPSK	135	69		26.22		27.5
100	QPSK	135	138		25.23		26.5
100	QPSK	270	0		25.23		
100	16QAM	1	1		25.20		26.5
100	64QAM	1	1		23.71		25.0
100	256QAM	1	1		21.94		23.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.93	25.73	26.11	27.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.96	25.75	26.17	27.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.92	25.80	26.18	27.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	25.89	25.78	26.15	27.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	26.10	26.19	26.07	27.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.75	26.12	26.15	27.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	25.78	26.19	26.17	27.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	25.76	26.12	26.25	27.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.80	26.19	26.25	27.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.76	26.12	26.22	27.5



<FR1 n78_HPUE_Ant 2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.00		27.5
100	PI/2 BPSK	1	137		25.76		
100	PI/2 BPSK	1	271		25.80		
100	PI/2 BPSK	135	0		25.00		27.0
100	PI/2 BPSK	135	69		25.63		27.5
100	PI/2 BPSK	135	138		25.29		27.0
100	PI/2 BPSK	270	0		25.23		
100	QPSK	1	1		25.82		27.5
100	QPSK	1	137		25.72		
100	QPSK	1	271		25.72		
100	QPSK	135	0		25.57		26.5
100	QPSK	135	69		25.54		27.5
100	QPSK	135	138		25.62		26.5
100	QPSK	270	0		25.48		
100	16QAM	1	1		24.81		26.5
100	64QAM	1	1		23.33		25.0
100	256QAM	1	1		21.43		23.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.81	25.90	25.89	27.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.71	25.89	25.89	27.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.80	25.85	25.84	27.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	25.73	25.84	25.86	27.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.77	25.85	25.87	27.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.80	25.86	25.83	27.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	25.74	25.89	25.88	27.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	25.74	25.90	25.83	27.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.77	25.83	25.80	27.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.75	25.84	25.85	27.5



<FR1 n78_HPUE_Ant 0_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.03		
100	PI/2 BPSK	1	137		20.01		20.5
100	PI/2 BPSK	1	271		19.98		
100	PI/2 BPSK	135	0		19.99		
100	PI/2 BPSK	135	69		20.02		20.5
100	PI/2 BPSK	135	138		19.89		20.5
100	PI/2 BPSK	270	0		19.92		
100	QPSK	1	1		19.98		
100	QPSK	1	137		19.95		20.5
100	QPSK	1	271		19.93		
100	QPSK	135	0		19.88		
100	QPSK	135	69		19.86		20.5
100	QPSK	135	138		19.93		20.5
100	QPSK	270	0		19.94		
100	16QAM	1	1		19.95		
100	64QAM	1	1		19.97		20.5
100	256QAM	1	1		19.99		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.95	20.02	19.90	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.85	19.89	19.80	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.86	19.94	19.79	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.84	19.90	19.78	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.85	19.89	19.80	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.81	19.88	19.82	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.80	19.93	19.81	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.82	19.93	19.82	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.86	19.92	19.84	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.89	19.96	19.92	



<FR1 n78_HPUE_Ant 2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.54		20.0
100	PI/2 BPSK	1	137		19.51		
100	PI/2 BPSK	1	271		19.44		
100	PI/2 BPSK	135	0		19.52		20.0
100	PI/2 BPSK	135	69		19.46		20.0
100	PI/2 BPSK	135	138		19.45		20.0
100	PI/2 BPSK	270	0		19.41		
100	QPSK	1	1		19.49		20.0
100	QPSK	1	137		19.48		
100	QPSK	1	271		19.35		
100	QPSK	135	0		19.47		20.0
100	QPSK	135	69		19.42		20.0
100	QPSK	135	138		19.40		20.0
100	QPSK	270	0		19.45		
100	16QAM	1	1		19.53		20.0
100	64QAM	1	1		19.33		20.0
100	256QAM	1	1		19.53		20.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.47	19.53	19.36	20.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.46	19.39	19.29	20.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.35	19.45	19.30	20.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.41	19.40	19.22	20.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.36	19.45	19.28	20.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.35	19.39	19.29	20.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.37	19.41	19.27	20.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.39	19.40	19.24	20.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.37	19.41	19.24	20.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.45	19.43	19.28	20.0



<FR1 n78_Ant 0_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.35		
100	PI/2 BPSK	1	137		23.16		25.0
100	PI/2 BPSK	1	271		23.32		
100	PI/2 BPSK	135	0		22.71		
100	PI/2 BPSK	135	69		23.17		24.5
100	PI/2 BPSK	135	138		22.83		25.0
100	PI/2 BPSK	270	0		22.81		
100	QPSK	1	1		23.32		
100	QPSK	1	137		23.11		25.0
100	QPSK	1	271		23.29		
100	QPSK	135	0		22.22		
100	QPSK	135	69		23.15		24.0
100	QPSK	135	138		22.27		25.0
100	QPSK	270	0		22.30		
100	16QAM	1	1		22.20		
100	64QAM	1	1		20.64		24.0
100	256QAM	1	1		19.05		22.5
Channel				633000	633332	633666	20.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.20	23.33	23.27	
Channel				632668	633332	634000	25.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.18	23.27	23.25	
Channel				632334	633332	634332	25.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.19	23.26	23.21	
Channel				632000	633332	634666	25.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.22	23.26	23.20	
Channel				631668	633332	635000	25.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.22	23.29	23.20	
Channel				631334	633332	635332	25.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.22	23.30	23.23	
Channel				631000	633332	635666	25.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.19	23.31	23.20	
Channel				630668	633332	636000	25.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.24	23.30	23.26	
Channel				630500	633332	636166	25.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.25	23.31	23.20	
Channel				630334	633332	636332	25.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.22	23.34	23.20	



<FR1 n78_Ant 2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.47		
100	PI/2 BPSK	1	137		23.18		25.0
100	PI/2 BPSK	1	271		23.19		
100	PI/2 BPSK	135	0		22.95		
100	PI/2 BPSK	135	69		23.22		24.5
100	PI/2 BPSK	135	138		22.81		25.0
100	PI/2 BPSK	270	0		22.91		
100	QPSK	1	1		23.28		
100	QPSK	1	137		23.25		25.0
100	QPSK	1	271		23.21		
100	QPSK	135	0		22.49		
100	QPSK	135	69		23.14		24.0
100	QPSK	135	138		22.24		25.0
100	QPSK	270	0		22.33		
100	16QAM	1	1		22.38		
100	64QAM	1	1		20.98		24.0
100	256QAM	1	1		19.00		22.5
Channel				633000	633332	633666	20.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.18	23.37	23.30	
Channel				632668	633332	634000	25.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.20	23.41	23.30	
Channel				632334	633332	634332	25.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.18	23.45	23.31	
Channel				632000	633332	634666	25.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.28	23.41	23.27	
Channel				631668	633332	635000	25.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.19	23.43	23.34	
Channel				631334	633332	635332	25.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.28	23.36	23.34	
Channel				631000	633332	635666	25.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.23	23.42	23.28	
Channel				630668	633332	636000	25.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.19	23.44	23.27	
Channel				630500	633332	636166	25.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.27	23.38	23.32	
Channel				630334	633332	636332	25.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.19	23.38	23.32	



<FR1 n78_Ant 0_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.22		
100	PI/2 BPSK	1	137		16.12		17.5
100	PI/2 BPSK	1	271		16.19		
100	PI/2 BPSK	135	0		16.06		
100	PI/2 BPSK	135	69		16.20		17.5
100	PI/2 BPSK	135	138		16.16		17.5
100	PI/2 BPSK	270	0		16.16		
100	QPSK	1	1		16.19		
100	QPSK	1	137		16.09		17.5
100	QPSK	1	271		16.20		
100	QPSK	135	0		16.09		
100	QPSK	135	69		16.12		17.5
100	QPSK	135	138		16.21		17.5
100	QPSK	270	0		16.19		
100	16QAM	1	1		16.09		
100	64QAM	1	1		16.03		17.5
100	256QAM	1	1		16.20		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.11	16.21	16.06	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.09	16.13	16.08	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.15	16.20	16.04	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.12	16.21	16.13	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.17	16.13	16.08	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.17	16.20	16.04	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.13	16.15	16.08	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.17	16.15	16.05	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.16	16.19	16.12	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.12	16.13	16.13	



<FR1 n78_Ant 2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.42		
100	PI/2 BPSK	1	137		16.40		17.0
100	PI/2 BPSK	1	271		16.35		
100	PI/2 BPSK	135	0		16.36		
100	PI/2 BPSK	135	69		16.40		17.0
100	PI/2 BPSK	135	138		16.26		17.0
100	PI/2 BPSK	270	0		16.38		
100	QPSK	1	1		16.41		
100	QPSK	1	137		16.37		17.0
100	QPSK	1	271		16.31		
100	QPSK	135	0		16.39		
100	QPSK	135	69		16.37		17.0
100	QPSK	135	138		16.28		17.0
100	QPSK	270	0		16.31		
100	16QAM	1	1		16.30		
100	64QAM	1	1		16.14		17.0
100	256QAM	1	1		16.38		17.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.31	16.34	16.30	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.28	16.34	16.28	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.25	16.36	16.20	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.33	16.31	16.24	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.31	16.35	16.21	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.29	16.32	16.30	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.26	16.31	16.23	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.25	16.38	16.28	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.32	16.38	16.26	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.30	16.28	16.29	



<FR1 n78_HPUE_Ant 0_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.77		
100	PI/2 BPSK	1	137		25.75		27.5
100	PI/2 BPSK	1	271		25.74		
100	PI/2 BPSK	135	0		25.33		
100	PI/2 BPSK	135	69		25.69		27.0
100	PI/2 BPSK	135	138		25.28		27.5
100	PI/2 BPSK	270	0		25.34		
100	QPSK	1	1		25.74		
100	QPSK	1	137		25.72		27.5
100	QPSK	1	271		25.76		
100	QPSK	135	0		24.85		
100	QPSK	135	69		25.68		26.5
100	QPSK	135	138		24.76		27.5
100	QPSK	270	0		24.85		
100	16QAM	1	1		24.68		
100	64QAM	1	1		23.14		26.5
100	256QAM	1	1		21.51		25.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.67	25.76	25.65	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.66	25.72	25.66	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.63	25.76	25.69	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.61	25.71	25.66	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.60	25.73	25.64	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.59	25.67	25.69	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.69	25.73	25.70	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.59	25.68	25.66	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.60	25.69	25.63	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.63	25.72	25.67	



<FR1 n78_HPUE_Ant 2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.15		
100	PI/2 BPSK	1	137		25.96		27.5
100	PI/2 BPSK	1	271		25.95		
100	PI/2 BPSK	135	0		25.63		27.0
100	PI/2 BPSK	135	69		25.67		27.5
100	PI/2 BPSK	135	138		25.64		27.0
100	PI/2 BPSK	270	0		25.60		
100	QPSK	1	1		25.85		27.5
100	QPSK	1	137		25.84		
100	QPSK	1	271		25.76		
100	QPSK	135	0		25.68		26.5
100	QPSK	135	69		25.57		27.5
100	QPSK	135	138		25.67		26.5
100	QPSK	270	0		25.46		
100	16QAM	1	1		24.85		26.5
100	64QAM	1	1		23.37		25.0
100	256QAM	1	1		21.47		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.86	26.09	25.91	27.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.86	26.06	25.98	27.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.81	26.13	25.92	27.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.88	26.11	25.95	27.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.88	26.04	25.95	27.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.81	26.04	25.94	27.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.85	26.09	25.95	27.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.86	26.05	25.92	27.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.89	26.06	25.96	27.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.83	26.12	25.91	27.5



<FR1 n78_HPUE_Ant 0_Sensor ON>

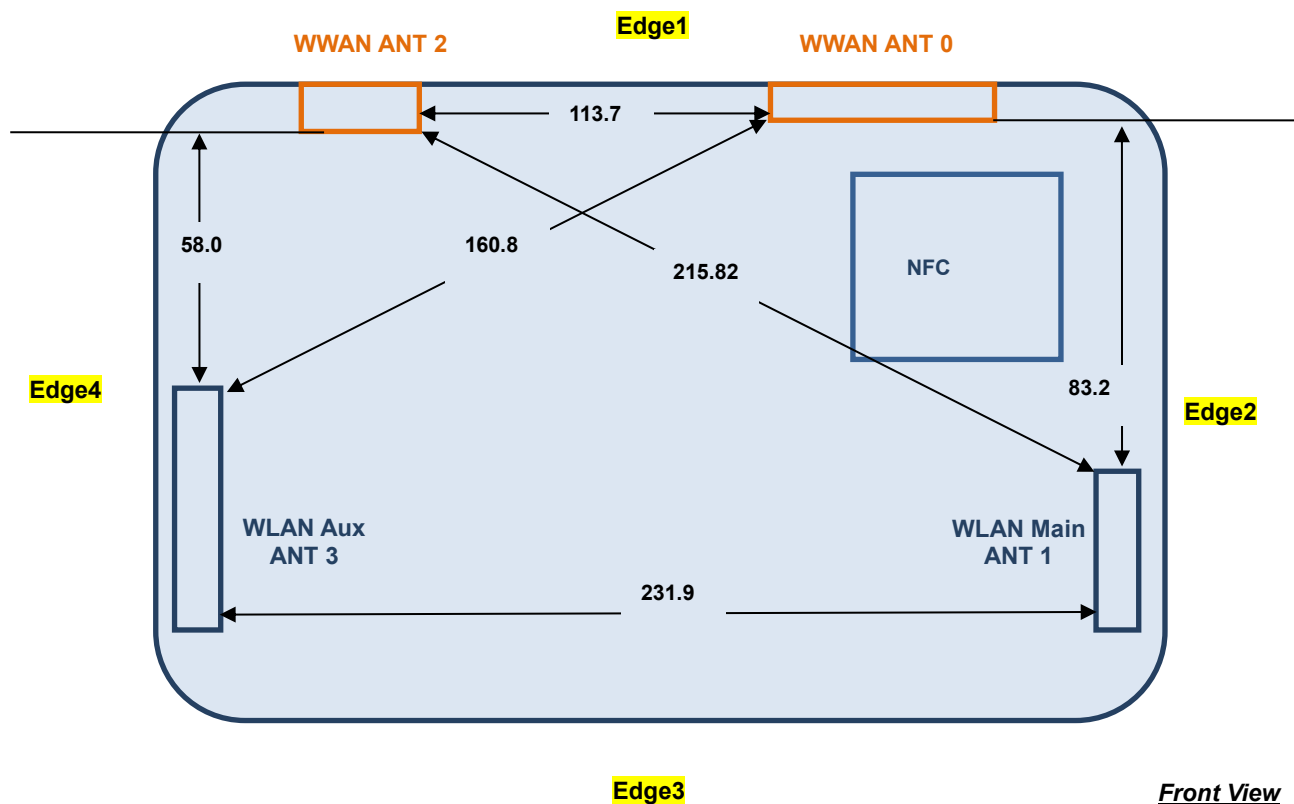
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.19		20.5
100	PI/2 BPSK	1	137		19.16		
100	PI/2 BPSK	1	271		19.18		
100	PI/2 BPSK	135	0		19.12		20.5
100	PI/2 BPSK	135	69		19.13		20.5
100	PI/2 BPSK	135	138		19.05		20.5
100	PI/2 BPSK	270	0		19.12		
100	QPSK	1	1		19.18		20.5
100	QPSK	1	137		19.17		
100	QPSK	1	271		19.08		
100	QPSK	135	0		19.13		20.5
100	QPSK	135	69		19.05		20.5
100	QPSK	135	138		19.13		20.5
100	QPSK	270	0		19.14		
100	16QAM	1	1		19.06		20.5
100	64QAM	1	1		19.13		20.5
100	256QAM	1	1		19.14		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.13	19.18	19.08	20.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.98	19.10	19.00	20.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.07	19.05	18.96	20.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.01	19.05	18.95	20.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.06	19.08	18.94	20.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.06	19.07	18.94	20.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.04	19.03	18.99	20.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.01	19.03	18.98	20.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.03	19.03	19.02	20.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.01	19.04	18.97	20.5



<FR1 n78_HPUE_Ant 2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.31		
100	PI/2 BPSK	1	137		19.25		20.0
100	PI/2 BPSK	1	271		19.20		
100	PI/2 BPSK	135	0		19.22		
100	PI/2 BPSK	135	69		19.25		20.0
100	PI/2 BPSK	135	138		19.12		20.0
100	PI/2 BPSK	270	0		19.23		
100	QPSK	1	1		19.25		
100	QPSK	1	137		19.23		20.0
100	QPSK	1	271		19.16		
100	QPSK	135	0		19.24		
100	QPSK	135	69		19.20		20.0
100	QPSK	135	138		19.14		20.0
100	QPSK	270	0		19.16		
100	16QAM	1	1		19.17		
100	64QAM	1	1		19.01		20.0
100	256QAM	1	1		19.23		20.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.18	19.27	19.22	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.06	19.16	19.05	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.01	19.18	19.09	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.08	19.19	19.11	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.08	19.17	19.06	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.01	19.18	19.07	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.09	19.15	19.05	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.07	19.12	19.05	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.07	19.16	19.06	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.03	19.13	19.05	

14. Antenna Location



The separation distance for antenna to edge :

Antenna	To Edge1 (mm)	To Edge2 (mm)	To Edge3 (mm)	To Edge4 (mm)
WWAN Antenna 0	8.9	24.8	177.4	168.4
WWAN Antenna 2	9.0	219.9	176.9	24.8

<SAR test exclusion table>
General Note:

- The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
- Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
- Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
- Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

Ant 0

Exposure Position	Wireless Interface	WCDMA Band V	WCDMA Band IV	WCDMA Band II	LTE / NR Band 71	LTE / NR Band 12/17	LTE / NR Band 13	LTE / NR Band 14	LTE / NR Band 5/26	LTE / NR Band 4/66	LTE / NR Band 2/25	LTE / NR Band 30	LTE / NR Band 7	LTE / NR Band 38/41	NR Band 48	NR Band n77	NR Band n78
	Calculated Frequency (MHz)	846	1750	1907	695	715	784	795	848	1779	1914	2312	2567	2690	3700	3980	3800
	Maximum power (dBm)	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	23.0	25.0	27.5	22.0	27.5	27.5	
	Maximum rated power(mW)	316.23	316.23	316.23	316.23	316.23	316.23	316.23	316.23	316.23	199.53	316.23	562.34	158.49	562.34	562.34	
Bottom Face	Separation distance(mm)	12.5															
	exclusion threshold	23.3	33.5	34.9	21.1	21.4	22.4	22.6	23.3	33.7	35.0	24.3	40.5	73.8	24.4	89.8	87.7
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	8.9															
	exclusion threshold	32.6	46.9	48.9	29.5	29.9	31.4	31.6	32.6	47.2	49.0	34.0	56.7	103.3	34.1	125.6	122.8
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	24.8															
	exclusion threshold	11.7	16.9	17.6	10.6	10.8	11.3	11.4	11.8	17.0	17.7	12.2	20.5	37.2	12.3	45.3	44.2
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 3	Separation distance(mm)	177.4															
	exclusion threshold	882.0	1388.0	1383.0	770.0	785.0	835.0	844.0	883.0	1387.0	1383.0	1373.0	1368.0	1366.0	1352.0	1349.0	1351.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	168.4															
	exclusion threshold	831.0	1298.0	1293.0	729.0	742.0	788.0	796.0	832.0	1297.0	1293.0	1283.0	1278.0	1276.0	1262.0	1259.0	1261.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

Ant 2

Exposure Position	Wireless Interface	LTE / NR Band 4/66	NR Band 70	LTE / NR Band 2/25	LTE / NR Band 30	LTE / NR Band 7	LTE / NR Band 38/41	LTE Band 42	LTE Band 43	LTE/ NR Band 48	LTE / NR Band n77	LTE/ NR Band n78
	Calculated Frequency (MHz)	1779	1707.5	1914	2312	2567	2690	3600	3800	3700	3980	3800
	Maximum power (dBm)	24.0	24.0	24.0	23.0	24.0	27.5	22.0	22.0	22.0	27.5	27.5
	Maximum rated power(mW)	251.19	251.19	251.19	199.53	251.19	562.34	158.49	158.49	158.49	562.34	562.34
Bottom Face	Separation distance(mm)	6.8										
	exclusion threshold	49.3	48.3	51.1	44.6	59.2	135.6	44.2	45.4	44.8	165.0	161.2
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	9.0										
	exclusion threshold	37.2	36.5	38.6	33.7	44.7	102.5	33.4	34.3	33.9	124.7	121.8
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	219.9										
	exclusion threshold	1812.0	1814.0	1808.0	1798.0	1793.0	1791.0	1778.0	1776.0	1777.0	1774.0	1776.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No
Edge 3	Separation distance(mm)	176.9										
	exclusion threshold	1381.0	1384.0	1377.0	1368.0	1363.0	1360.0	1348.0	1346.0	1347.0	1344.0	1346.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	24.8										
	exclusion threshold	13.5	13.3	14.0	12.3	16.3	37.2	12.1	12.5	12.3	45.3	44.3
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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 WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - c. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. For the exposure positions that proximity sensor power reduction is applied for SAR compliance, additional SAR testing with EUT transmitting full power in sensor trigger distance was performed according to section 4. The test results just verification the sensor trigger distance to meet KDB 616217 requirement, when in normal usage will not operate at trigger distance, therefore, these results were not using performed Sim-Tx analysis.

UMTS 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 (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ 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 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/B12/B17/B26/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 band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to 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. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
 - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK 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. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - b. For PI/2 BPSK with 100% RB allocation, SAR test 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.
 - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - d. Smaller bandwidth output power for each RB allocation configuration for this device 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, smaller bandwidth SAR testing is not required for this device
 - e. For 5G FR1 n5/n12/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
 - f. The NR n2/38 SAR test was covered by NR n25/41; due to SAR test for overlapping NR bands can be reduced if the maximum power including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion and the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.
 - g. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission

NFC Note:

1. NFC mainly operate in hand-held extremity exposure conditions, therefore Standalone 10-g extremity SAR testing for NFC will be performed with active mode, with 100% duty cycle at 0mm separation distance.
2. NFC SAR is measured for all surface edges of the device with a transmitting antenna located within 25 mm from that surface or edge.

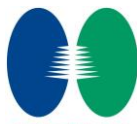
**15.1 Body SAR****<WCDMA SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	21mm	Battery1	Sensor OFF	9400	1880	SKU1	23.61	25.00	1.377	-0.12	0.253	0.348
	WCDMA II_Ant 0	RMC 12.2Kbps	Edge 1	28mm	Battery1	Sensor OFF	9400	1880	SKU1	23.61	25.00	1.377	-0.01	0.172	0.237
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9400	1880	SKU1	19.95	20.00	1.012	0.01	1.070	1.082
1	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9262	1852.4	SKU1	19.87	20.00	1.030	-0.09	1.100	1.133
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9538	1907.6	SKU1	19.89	20.00	1.026	-0.07	0.890	0.913
	WCDMA II_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	9400	1880	SKU1	19.95	20.00	1.012	0.02	0.761	0.770
	WCDMA II_Ant 0	RMC 12.2Kbps	Edge 2	0mm	Battery1	Sensor OFF	9400	1880	SKU1	23.61	25.00	1.377	-0.01	0.200	0.275
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9262	1852.4	SKU2	19.87	20.00	1.030	-0.08	1.050	1.082
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9400	1880	SKU2	19.95	20.00	1.012	0.11	1.000	1.012
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9538	1907.6	SKU2	19.89	20.00	1.026	-0.05	0.820	0.841
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9262	1852.4	SKU3	19.87	20.00	1.030	0.06	1.090	1.123
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9400	1880	SKU3	19.95	20.00	1.012	-0.02	0.970	0.981
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9538	1907.6	SKU3	19.89	20.00	1.026	-0.07	0.834	0.855
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery2	Sensor ON	9262	1852.4	SKU1	19.87	20.00	1.030	-0.04	0.775	0.799
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Face	21mm	Battery1	Sensor OFF	1413	1732.6	SKU1	23.71	25.00	1.346	0.1	0.190	0.256
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	28mm	Battery1	Sensor OFF	1413	1732.6	SKU1	23.71	25.00	1.346	-0.08	0.273	0.367
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	1413	1732.6	SKU1	20.98	21.50	1.127	0.04	0.990	1.116
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	1312	1712.4	SKU1	20.74	21.50	1.191	0.17	0.806	0.960
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	1513	1752.6	SKU1	20.90	21.50	1.148	-0.07	0.973	1.117
2	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	1413	1732.6	SKU1	20.98	21.50	1.127	-0.01	1.040	1.172
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	1312	1712.4	SKU1	20.74	21.50	1.191	-0.07	0.867	1.033
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	1513	1752.6	SKU1	20.90	21.50	1.148	0.06	1.000	1.148
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 2	0mm	Battery1	Sensor OFF	1413	1732.6	SKU1	23.71	25.00	1.346	-0.14	0.223	0.300
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	1413	1732.6	SKU2	20.98	21.50	1.127	-0.19	1.030	1.161
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	1312	1712.4	SKU2	20.74	21.50	1.191	0.03	0.822	0.979
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	1513	1752.6	SKU2	20.90	21.50	1.148	-0.08	0.971	1.115
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	1413	1732.6	SKU3	20.98	21.50	1.127	-0.09	1.010	1.138
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	1312	1712.4	SKU3	20.74	21.50	1.191	0.17	0.834	0.993
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	1513	1752.6	SKU3	20.90	21.50	1.148	0.11	0.960	1.102
	WCDMA IV_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery2	Sensor ON	1413	1732.6	SKU1	20.98	21.50	1.127	-0.02	1.010	1.138
	WCDMA V_Ant 0	RMC 12.2Kbps	Bottom Face	21mm	Battery1	Sensor OFF	4233	846.6	SKU1	24.12	25.00	1.225	-0.08	0.169	0.207
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	28mm	Battery1	Sensor OFF	4233	846.6	SKU1	24.12	25.00	1.225	0	0.249	0.305
	WCDMA V_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	4233	846.6	SKU1	23.19	23.50	1.074	-0.14	0.666	0.715
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	4233	846.6	SKU1	23.19	23.50	1.074	-0.14	0.891	0.957
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	4182	836.4	SKU1	23.17	23.50	1.079	0.05	0.890	0.960
3	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	4132	826.4	SKU1	23.14	23.50	1.086	0.01	0.993	1.079
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 2	0mm	Battery1	Sensor OFF	4233	846.6	SKU1	24.12	25.00	1.225	-0.09	0.121	0.148
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	4132	826.4	SKU2	23.14	23.50	1.086	0.01	0.940	1.021
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	4233	846.6	SKU2	23.19	23.50	1.074	0.06	0.883	0.948
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	4182	836.4	SKU2	23.17	23.50	1.079	-0.03	0.828	0.893
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	4132	826.4	SKU3	23.14	23.50	1.086	-0.06	0.988	1.073
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	4233	846.6	SKU3	23.19	23.50	1.074	-0.1	0.870	0.934
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery1	Sensor ON	4182	836.4	SKU3	23.17	23.50	1.079	0.05	0.861	0.929
	WCDMA V_Ant 0	RMC 12.2Kbps	Edge 1	0mm	Battery2	Sensor ON	4132	826.4	SKU1	23.14	23.50	1.086	0.08	0.928	1.008



<LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Face	21mm	Battery1	Sensor OFF	20850	2510	SKU1	23.45	25.00	1.429	-0.07	0.186	0.266
	LTE Band 7_Ant 0	20M	QPSK	50	24	Bottom Face	21mm	Battery1	Sensor OFF	20850	2510	SKU1	22.54	24.00	1.400	0.15	0.159	0.223
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	28mm	Battery1	Sensor OFF	20850	2510	SKU1	23.45	25.00	1.429	-0.02	0.268	0.383
	LTE Band 7_Ant 0	20M	QPSK	50	24	Edge 1	28mm	Battery1	Sensor OFF	20850	2510	SKU1	22.54	24.00	1.400	-0.1	0.229	0.321
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	20850	2510	SKU1	17.52	18.00	1.117	-0.08	0.343	0.383
	LTE Band 7_Ant 0	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	20850	2510	SKU1	16.61	17.00	1.094	-0.01	0.311	0.340
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	20850	2510	SKU1	17.52	18.00	1.117	-0.19	0.836	0.934
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21100	2535	SKU1	17.43	18.00	1.140	0	0.939	1.071
4	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21350	2560	SKU1	17.39	18.00	1.151	0.02	1.010	1.162
	LTE Band 7_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	20850	2510	SKU1	16.61	17.00	1.094	-0.13	0.827	0.905
	LTE Band 7_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	21100	2535	SKU1	16.40	17.00	1.148	-0.16	0.919	1.055
	LTE Band 7_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	21350	2560	SKU1	16.37	17.00	1.156	0.06	0.944	1.091
	LTE Band 7_Ant 0	20M	QPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	20850	2510	SKU1	16.58	17.00	1.102	-0.11	0.780	0.859
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 2	0mm	Battery1	Sensor OFF	20850	2510	SKU1	23.45	25.00	1.429	0.01	0.061	0.087
	LTE Band 7_Ant 0	20M	QPSK	50	24	Edge 2	0mm	Battery1	Sensor OFF	20850	2510	SKU1	22.54	24.00	1.400	0.1	0.031	0.043
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21350	2560	SKU2	17.39	18.00	1.151	-0.14	0.925	1.064
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	20850	2510	SKU2	17.52	18.00	1.117	0.08	0.813	0.908
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21100	2535	SKU2	17.43	18.00	1.140	0.03	0.888	1.013
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21350	2560	SKU3	17.39	18.00	1.151	0.19	0.995	1.145
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	20850	2510	SKU3	17.52	18.00	1.117	0.06	0.796	0.889
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21100	2535	SKU3	17.43	18.00	1.140	0.09	0.897	1.023
	LTE Band 7_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor ON	21350	2560	SKU1	17.39	18.00	1.151	0.02	0.825	0.949
	LTE Band 7C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	20850+21048	2510	SKU1	17.23	18.00	1.194	-0.04	0.955	1.140
	LTE Band 7C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21100+20902	2535	SKU1	17.35	18.00	1.161	0.08	0.964	1.120
	LTE Band 7C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21350+21152	2560	SKU1	17.47	18.00	1.130	0.11	0.971	1.097
	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Face	25mm	Battery1	Sensor OFF	21100	2535	SKU1	22.97	24.00	1.268	-0.17	0.175	0.222
	LTE Band 7_Ant 2	20M	QPSK	50	0	Bottom Face	25mm	Battery1	Sensor OFF	21100	2535	SKU1	21.94	23.00	1.276	0.03	0.146	0.186
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	26mm	Battery1	Sensor OFF	21100	2535	SKU1	22.97	24.00	1.268	-0.1	0.294	0.373
	LTE Band 7_Ant 2	20M	QPSK	50	0	Edge 1	26mm	Battery1	Sensor OFF	21100	2535	SKU1	21.94	23.00	1.276	-0.07	0.246	0.314
	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	21100	2535	SKU1	14.45	15.50	1.274	0.18	0.389	0.495
	LTE Band 7_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	21100	2535	SKU1	14.38	15.50	1.294	-0.12	0.357	0.462
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21100	2535	SKU1	14.45	15.50	1.274	0.08	0.818	1.042
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	20850	2510	SKU1	14.35	15.50	1.303	0.08	0.752	0.980
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21350	2560	SKU1	14.36	15.50	1.300	-0.17	0.862	1.121
	LTE Band 7_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	21100	2535	SKU1	14.38	15.50	1.294	-0.12	0.804	1.041
	LTE Band 7_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	20850	2510	SKU1	14.28	15.50	1.324	0.15	0.731	0.968
	LTE Band 7_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	21350	2560	SKU1	14.31	15.50	1.315	-0.16	0.802	1.055
	LTE Band 7_Ant 2	20M	QPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	21100	2535	SKU1	14.27	15.50	1.327	0.09	0.775	1.029
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 4	0mm	Battery1	Sensor OFF	21100	2535	SKU1	22.97	24.00	1.268	-0.13	0.510	0.647
	LTE Band 7_Ant 2	20M	QPSK	50	0	Edge 4	0mm	Battery1	Sensor OFF	21100	2535	SKU1	21.94	23.00	1.276	-0.19	0.469	0.599
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21350	2560	SKU2	14.36	15.50	1.300	-0.03	0.745	0.969
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21100	2535	SKU2	14.45	15.50	1.274	0.03	0.729	0.928
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	20850	2510	SKU2	14.35	15.50	1.303	0.18	0.693	0.903
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21350	2560	SKU3	14.36	15.50	1.300	0.03	0.807	1.049
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	21100	2535	SKU3	14.45	15.50	1.274	-0.19	0.733	0.933
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	20850	2510	SKU3	14.35	15.50	1.303	0.11	0.710	0.925
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor ON	21350	2560	SKU1	14.36	15.50	1.300	-0.03	0.806	1.048



FCC SAR TEST REPORT

Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor OFF	23095	707.5	SKU1	23.79	25.00	1.321	-0.03	0.562	0.743
	LTE Band 12_Ant 0	10M	QPSK	25	12	Bottom Face	0mm	Battery1	Sensor OFF	23095	707.5	SKU1	22.85	24.00	1.303	0.02	0.502	0.654
5	LTE Band 12_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor OFF	23095	707.5	SKU1	23.79	25.00	1.321	0.03	0.649	0.858
	LTE Band 12_Ant 0	10M	QPSK	25	12	Edge 1	0mm	Battery1	Sensor OFF	23095	707.5	SKU1	22.85	24.00	1.303	-0.03	0.615	0.801
	LTE Band 12_Ant 0	10M	QPSK	50	0	Edge 1	0mm	Battery1	Sensor OFF	23095	707.5	SKU1	22.85	24.00	1.303	-0.05	0.590	0.769
	LTE Band 12_Ant 0	10M	QPSK	1	0	Edge 2	0mm	Battery1	Sensor OFF	23095	707.5	SKU1	23.79	25.00	1.321	-0.01	0.078	0.103
	LTE Band 12_Ant 0	10M	QPSK	25	12	Edge 2	0mm	Battery1	Sensor OFF	23095	707.5	SKU1	22.85	24.00	1.303	-0.14	0.036	0.047
	LTE Band 12_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor OFF	23095	707.5	SKU2	23.79	25.00	1.321	0	0.611	0.807
	LTE Band 12_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor OFF	23095	707.5	SKU3	23.79	25.00	1.321	0.18	0.645	0.852
	LTE Band 12_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor OFF	23095	707.5	SKU1	23.79	25.00	1.321	0.07	0.623	0.823
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Face	21mm	Battery1	Sensor OFF	23230	782	SKU1	24.00	25.00	1.259	0.1	0.193	0.243
	LTE Band 13_Ant 0	10M	QPSK	25	12	Bottom Face	21mm	Battery1	Sensor OFF	23230	782	SKU1	23.02	24.00	1.253	0.13	0.162	0.203
	LTE Band 13_Ant 0	10M	QPSK	1	0	Edge 1	28mm	Battery1	Sensor OFF	23230	782	SKU1	24.00	25.00	1.259	-0.19	0.266	0.335
	LTE Band 13_Ant 0	10M	QPSK	25	12	Edge 1	28mm	Battery1	Sensor OFF	23230	782	SKU1	23.02	24.00	1.253	-0.14	0.219	0.274
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	23230	782	SKU1	24.00	24.50	1.122	-0.14	0.719	0.807
	LTE Band 13_Ant 0	10M	QPSK	25	12	Bottom Face	0mm	Battery1	Sensor ON	23230	782	SKU1	23.02	23.50	1.117	0	0.603	0.673
	LTE Band 13_Ant 0	10M	QPSK	50	0	Bottom Face	0mm	Battery1	Sensor ON	23230	782	SKU1	22.99	23.50	1.125	0.13	0.599	0.674
6	LTE Band 13_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	23230	782	SKU1	24.00	24.50	1.122	0.11	0.999	1.121
	LTE Band 13_Ant 0	10M	QPSK	25	12	Edge 1	0mm	Battery1	Sensor ON	23230	782	SKU1	23.02	23.50	1.117	-0.08	0.823	0.919
	LTE Band 13_Ant 0	10M	QPSK	50	0	Edge 1	0mm	Battery1	Sensor ON	23230	782	SKU1	22.99	23.50	1.125	-0.04	0.805	0.905
	LTE Band 13_Ant 0	10M	QPSK	1	0	Edge 2	0mm	Battery1	Sensor OFF	23230	782	SKU1	24.00	25.00	1.259	0.06	0.094	0.118
	LTE Band 13_Ant 0	10M	QPSK	25	12	Edge 2	0mm	Battery1	Sensor OFF	23230	782	SKU1	23.02	24.00	1.253	0.13	0.071	0.089
	LTE Band 13_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	23230	782	SKU2	24.00	24.50	1.122	-0.16	0.943	1.058
	LTE Band 13_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	23230	782	SKU3	24.00	24.50	1.122	-0.06	0.939	1.054
	LTE Band 13_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor ON	23230	782	SKU1	24.00	24.50	1.122	-0.13	0.955	1.072
	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Face	21mm	Battery1	Sensor OFF	23330	793	SKU1	24.07	25.00	1.239	-0.09	0.168	0.208
	LTE Band 14_Ant 0	10M	QPSK	25	12	Bottom Face	21mm	Battery1	Sensor OFF	23330	793	SKU1	23.07	24.00	1.239	-0.19	0.149	0.185
	LTE Band 14_Ant 0	10M	QPSK	1	0	Edge 1	28mm	Battery1	Sensor OFF	23330	793	SKU1	24.07	25.00	1.239	0.03	0.255	0.316
	LTE Band 14_Ant 0	10M	QPSK	25	12	Edge 1	28mm	Battery1	Sensor OFF	23330	793	SKU1	23.07	24.00	1.239	0.17	0.201	0.249
	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	23330	793	SKU1	23.28	23.50	1.052	-0.02	0.796	0.837
	LTE Band 14_Ant 0	10M	QPSK	25	12	Bottom Face	0mm	Battery1	Sensor ON	23330	793	SKU1	22.23	22.50	1.064	-0.04	0.629	0.669
	LTE Band 14_Ant 0	10M	QPSK	50	0	Bottom Face	0mm	Battery1	Sensor ON	23330	793	SKU1	22.25	22.50	1.059	-0.13	0.615	0.651
7	LTE Band 14_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	23330	793	SKU1	23.28	23.50	1.052	0.08	1.030	1.084
	LTE Band 14_Ant 0	10M	QPSK	25	12	Edge 1	0mm	Battery1	Sensor ON	23330	793	SKU1	22.23	22.50	1.064	0.08	0.843	0.897
	LTE Band 14_Ant 0	10M	QPSK	50	0	Edge 1	0mm	Battery1	Sensor ON	23330	793	SKU1	22.25	22.50	1.059	-0.18	0.829	0.878
	LTE Band 14_Ant 0	10M	QPSK	1	0	Edge 2	0mm	Battery1	Sensor OFF	23330	793	SKU1	24.07	25.00	1.239	-0.07	0.121	0.150
	LTE Band 14_Ant 0	10M	QPSK	25	12	Edge 2	0mm	Battery1	Sensor OFF	23330	793	SKU1	23.07	24.00	1.239	0.18	0.074	0.092
	LTE Band 14_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	23330	793	SKU2	23.28	23.50	1.052	-0.12	0.924	0.972
	LTE Band 14_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	23330	793	SKU3	23.28	23.50	1.052	-0.07	0.922	0.970
	LTE Band 14_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor ON	23330	793	SKU1	23.28	23.50	1.052	0.06	0.979	1.030



FCC SAR TEST REPORT

Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	21mm	Battery1	Sensor OFF	26340	1880	SKU1	23.58	25.00	1.387	-0.09	0.269	0.373
	LTE Band 25_Ant 0	20M	QPSK	50	24	Bottom Face	21mm	Battery1	Sensor OFF	26340	1880	SKU1	22.65	24.00	1.365	-0.06	0.213	0.291
	LTE Band 25_Ant 0	20M	QPSK	1	0	Edge 1	28mm	Battery1	Sensor OFF	26340	1880	SKU1	23.58	25.00	1.387	-0.17	0.169	0.234
	LTE Band 25_Ant 0	20M	QPSK	50	24	Edge 1	28mm	Battery1	Sensor OFF	26340	1880	SKU1	22.65	24.00	1.365	0.01	0.128	0.175
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26340	1880	SKU1	20.07	20.50	1.104	0.05	0.996	1.100
8	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26140	1860	SKU1	20.03	20.50	1.114	0.09	1.030	1.148
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26590	1905	SKU1	20.00	20.50	1.122	0.01	0.925	1.038
	LTE Band 25_Ant 0	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	26340	1880	SKU1	19.15	19.50	1.084	0.02	0.908	0.984
	LTE Band 25_Ant 0	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	26140	1860	SKU1	19.10	19.50	1.096	-0.19	0.930	1.020
	LTE Band 25_Ant 0	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	26590	1905	SKU1	18.96	19.50	1.132	0.16	0.825	0.934
	LTE Band 25_Ant 0	20M	QPSK	100	0	Bottom Face	0mm	Battery1	Sensor ON	26340	1880	SKU1	19.13	19.50	1.089	-0.06	0.782	0.852
	LTE Band 25_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	26340	1880	SKU1	20.07	20.50	1.104	0.01	0.801	0.884
	LTE Band 25_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	26140	1860	SKU1	20.03	20.50	1.114	0	0.805	0.897
	LTE Band 25_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	26590	1905	SKU1	20.00	20.50	1.122	0.01	0.748	0.839
	LTE Band 25_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	26340	1880	SKU1	19.15	19.50	1.084	0.11	0.650	0.705
	LTE Band 25_Ant 0	20M	QPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	26340	1880	SKU1	19.13	19.50	1.089	0.17	0.611	0.665
	LTE Band 25_Ant 0	20M	QPSK	1	0	Edge 2	0mm	Battery1	Sensor OFF	26340	1880	SKU1	23.58	25.00	1.387	0.14	0.231	0.320
	LTE Band 25_Ant 0	20M	QPSK	50	24	Edge 2	0mm	Battery1	Sensor OFF	26340	1880	SKU1	22.65	24.00	1.365	0.01	0.164	0.224
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26140	1860	SKU2	20.03	20.50	1.114	0.19	0.966	1.076
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26340	1880	SKU2	20.07	20.50	1.104	-0.08	0.917	1.012
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26590	1905	SKU2	20.00	20.50	1.122	0.12	0.897	1.006
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26140	1860	SKU3	20.03	20.50	1.114	0.06	0.980	1.092
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26340	1880	SKU3	20.07	20.50	1.104	0.13	0.959	1.059
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26590	1905	SKU3	20.00	20.50	1.122	0	0.911	1.022
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery2	Sensor ON	26140	1860	SKU1	20.03	20.50	1.114	0.19	0.964	1.074
	LTE Band 2C_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	18700+18898	1860	SKU1	19.10	20.50	1.380	0.06	0.760	1.049
	LTE Band 2C_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	18900+18702	1880	SKU1	19.15	20.50	1.365	-0.05	0.787	1.074
	LTE Band 2C_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	19100+18902	1900	SKU1	19.23	20.50	1.340	0.17	0.794	1.064
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	25mm	Battery1	Sensor OFF	26340	1880	SKU1	23.08	24.00	1.236	0.04	0.162	0.200
	LTE Band 25_Ant 2	20M	QPSK	50	24	Bottom Face	25mm	Battery1	Sensor OFF	26340	1880	SKU1	21.95	23.00	1.274	-0.03	0.133	0.169
	LTE Band 25_Ant 2	20M	QPSK	1	0	Edge 1	26mm	Battery1	Sensor OFF	26340	1880	SKU1	23.08	24.00	1.236	0	0.105	0.130
	LTE Band 25_Ant 2	20M	QPSK	50	24	Edge 1	26mm	Battery1	Sensor OFF	26340	1880	SKU1	21.95	23.00	1.274	0.18	0.079	0.101
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26340	1880	SKU1	22.51	23.00	1.119	-0.15	0.972	1.088
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26140	1860	SKU1	22.44	23.00	1.138	0	0.922	1.049
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26590	1905	SKU1	22.45	23.00	1.135	0.06	0.981	1.113
	LTE Band 25_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	26340	1880	SKU1	21.43	22.00	1.140	-0.06	0.756	0.862
	LTE Band 25_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	26140	1860	SKU1	21.42	22.00	1.143	0.12	0.723	0.826
	LTE Band 25_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	26590	1905	SKU1	21.31	22.00	1.172	-0.17	0.749	0.878
	LTE Band 25_Ant 2	20M	QPSK	100	0	Bottom Face	0mm	Battery1	Sensor ON	26340	1880	SKU1	21.34	22.00	1.164	-0.03	0.738	0.859
	LTE Band 25_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	26340	1880	SKU1	22.51	23.00	1.119	0.02	0.872	0.976
	LTE Band 25_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	26140	1860	SKU1	22.44	23.00	1.138	0	0.855	0.973
	LTE Band 25_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	26590	1905	SKU1	22.45	23.00	1.135	0.01	0.922	1.046
	LTE Band 25_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	26340	1880	SKU1	21.43	22.00	1.140	0.08	0.689	0.786
	LTE Band 25_Ant 2	20M	QPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	26340	1880	SKU1	21.34	22.00	1.164	-0.08	0.672	0.782
	LTE Band 25_Ant 2	20M	QPSK	1	0	Edge 4	0mm	Battery1	Sensor OFF	26340	1880	SKU1	23.08	24.00	1.236	0.14	0.634	0.784
	LTE Band 25_Ant 2	20M	QPSK	50	24	Edge 4	0mm	Battery1	Sensor OFF	26340	1880	SKU1	21.95	23.00	1.274	-0.04	0.523	0.666
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26590	1905	SKU2	22.45	23.00	1.135	0.04	0.955	1.084
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26340	1880	SKU2	22.51	23.00	1.119	-0.17	0.936	1.048
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26140	1860	SKU2	22.44	23.00	1.138	0.07	0.879	1.000
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26590	1905	SKU3	22.45	23.00	1.135	-0.07	0.893	1.014
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26340	1880	SKU3	22.51	23.00	1.119	-0.05	0.864	0.967
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26140	1860	SKU3	22.44	23.00	1.138	0.13	0.833	0.948
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery2	Sensor ON	26590	1905	SKU1	22.45	23.00	1.135	0.16	0.945	1.073



FCC SAR TEST REPORT

Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26_Ant 0	15M	QPSK	1	0	Bottom Face	21mm	Battery1	Sensor OFF	26865	831.5	SKU1	23.69	25.00	1.352	-0.13	0.181	0.245
	LTE Band 26_Ant 0	15M	QPSK	36	20	Bottom Face	21mm	Battery1	Sensor OFF	26865	831.5	SKU1	22.67	24.00	1.358	-0.08	0.156	0.212
	LTE Band 26_Ant 0	15M	QPSK	1	0	Edge 1	28mm	Battery1	Sensor OFF	26865	831.5	SKU1	23.69	25.00	1.352	0.18	0.263	0.356
	LTE Band 26_Ant 0	15M	QPSK	36	20	Edge 1	28mm	Battery1	Sensor OFF	26865	831.5	SKU1	22.67	24.00	1.358	-0.1	0.224	0.304
	LTE Band 26_Ant 0	15M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	26865	831.5	SKU1	22.80	23.00	1.047	0.12	0.853	0.893
	LTE Band 26_Ant 0	15M	QPSK	36	20	Bottom Face	0mm	Battery1	Sensor ON	26865	831.5	SKU1	21.74	22.00	1.062	0.15	0.692	0.735
	LTE Band 26_Ant 0	15M	QPSK	75	0	Bottom Face	0mm	Battery1	Sensor ON	26865	831.5	SKU1	21.81	22.00	1.045	0.14	0.694	0.725
9	LTE Band 26_Ant 0	15M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	26865	831.5	SKU1	22.80	23.00	1.047	0.05	1.100	1.152
	LTE Band 26_Ant 0	15M	QPSK	36	20	Edge 1	0mm	Battery1	Sensor ON	26865	831.5	SKU1	21.74	22.00	1.062	0.09	0.859	0.912
	LTE Band 26_Ant 0	15M	QPSK	75	0	Edge 1	0mm	Battery1	Sensor ON	26865	831.5	SKU1	21.81	22.00	1.045	-0.15	0.879	0.918
	LTE Band 26_Ant 0	15M	QPSK	1	0	Edge 2	0mm	Battery1	Sensor OFF	26865	831.5	SKU1	23.69	25.00	1.352	-0.19	0.174	0.235
	LTE Band 26_Ant 0	15M	QPSK	36	20	Edge 2	0mm	Battery1	Sensor OFF	26865	831.5	SKU1	22.67	24.00	1.358	-0.05	0.123	0.167
	LTE Band 26_Ant 0	15M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	26865	831.5	SKU2	22.80	23.00	1.047	0.1	0.822	0.861
	LTE Band 26_Ant 0	15M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	26865	831.5	SKU3	22.80	23.00	1.047	-0.17	0.945	0.990
	LTE Band 26_Ant 0	15M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor ON	26865	831.5	SKU1	22.80	23.00	1.047	-0.04	0.977	1.023
	LTE Band 5B_Ant 0	10M	QPSK	1	49	Edge 1	0mm	Battery1	Sensor ON	20475+20574	831.5	SKU1	22.89	23.00	1.026	-0.02	0.974	0.999
	LTE Band 30_Ant 0	10M	QPSK	1	0	Bottom Face	21mm	Battery1	Sensor OFF	27710	2310	SKU1	21.58	23.00	1.387	-0.09	0.182	0.252
	LTE Band 30_Ant 0	10M	QPSK	25	12	Bottom Face	21mm	Battery1	Sensor OFF	27710	2310	SKU1	20.60	22.00	1.380	0.16	0.150	0.207
	LTE Band 30_Ant 0	10M	QPSK	1	0	Edge 1	28mm	Battery1	Sensor OFF	27710	2310	SKU1	21.58	23.00	1.387	-0.1	0.264	0.366
	LTE Band 30_Ant 0	10M	QPSK	25	12	Edge 1	28mm	Battery1	Sensor OFF	27710	2310	SKU1	20.60	22.00	1.380	-0.07	0.221	0.305
	LTE Band 30_Ant 0	10M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	27710	2310	SKU1	18.35	19.00	1.161	0.01	0.539	0.626
	LTE Band 30_Ant 0	10M	QPSK	25	12	Bottom Face	0mm	Battery1	Sensor ON	27710	2310	SKU1	17.44	18.00	1.138	-0.06	0.486	0.553
10	LTE Band 30_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU1	18.35	19.00	1.161	0.03	1.020	1.185
	LTE Band 30_Ant 0	10M	QPSK	25	12	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU1	17.44	18.00	1.138	0.15	0.832	0.947
	LTE Band 30_Ant 0	10M	QPSK	50	0	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU1	17.39	18.00	1.151	-0.14	0.816	0.939
	LTE Band 30_Ant 0	10M	QPSK	1	0	Edge 2	0mm	Battery1	Sensor OFF	27710	2310	SKU1	21.58	23.00	1.387	-0.01	0.050	0.069
	LTE Band 30_Ant 0	10M	QPSK	25	12	Edge 2	0mm	Battery1	Sensor OFF	27710	2310	SKU1	20.60	22.00	1.380	-0.06	0.024	0.033
	LTE Band 30_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU2	18.35	19.00	1.161	0.01	0.920	1.069
	LTE Band 30_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU3	18.35	19.00	1.161	0	1.000	1.161
	LTE Band 30_Ant 0	10M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor ON	27710	2310	SKU1	18.35	19.00	1.161	0.18	0.979	1.137
	LTE Band 30_Ant 2	10M	QPSK	1	0	Bottom Face	25mm	Battery1	Sensor OFF	27710	2310	SKU1	21.94	23.00	1.276	0.18	0.160	0.204
	LTE Band 30_Ant 2	10M	QPSK	25	0	Bottom Face	25mm	Battery1	Sensor OFF	27710	2310	SKU1	20.92	22.00	1.282	-0.04	0.131	0.168
	LTE Band 30_Ant 2	10M	QPSK	1	0	Edge 1	26mm	Battery1	Sensor OFF	27710	2310	SKU1	21.94	23.00	1.276	0.01	0.224	0.286
	LTE Band 30_Ant 2	10M	QPSK	25	0	Edge 1	26mm	Battery1	Sensor OFF	27710	2310	SKU1	20.92	22.00	1.282	-0.04	0.154	0.197
	LTE Band 30_Ant 2	10M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	27710	2310	SKU1	17.86	19.00	1.300	0.12	0.612	0.796
	LTE Band 30_Ant 2	10M	QPSK	25	12	Bottom Face	0mm	Battery1	Sensor ON	27710	2310	SKU1	16.84	18.00	1.306	-0.02	0.535	0.699
	LTE Band 30_Ant 2	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU1	17.86	19.00	1.300	-0.12	0.877	1.140
	LTE Band 30_Ant 2	10M	QPSK	25	12	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU1	16.84	18.00	1.306	-0.06	0.713	0.931
	LTE Band 30_Ant 2	10M	QPSK	50	0	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU1	16.72	18.00	1.343	-0.19	0.683	0.917
	LTE Band 30_Ant 2	10M	QPSK	1	0	Edge 4	0mm	Battery1	Sensor OFF	27710	2310	SKU1	21.94	23.00	1.276	-0.06	0.443	0.565
	LTE Band 30_Ant 2	10M	QPSK	25	0	Edge 4	0mm	Battery1	Sensor OFF	27710	2310	SKU1	20.92	22.00	1.282	0.04	0.289	0.371
	LTE Band 30_Ant 2	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU2	17.86	19.00	1.300	-0.06	0.861	1.119
	LTE Band 30_Ant 2	10M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU3	17.86	19.00	1.300	0.05	0.872	1.134
	LTE Band 30_Ant 2	10M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor ON	27710	2310	SKU1	17.86	19.00	1.300	0.04	0.863	1.122



FCC SAR TEST REPORT

Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Face	21mm	Battery1	Sensor OFF	132322	1745	SKU1	23.66	25.00	1.361	0.02	0.173	0.236
	LTE Band 66_Ant 0	20M	QPSK	50	24	Bottom Face	21mm	Battery1	Sensor OFF	132322	1745	SKU1	22.70	24.00	1.349	-0.19	0.142	0.192
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	28mm	Battery1	Sensor OFF	132322	1745	SKU1	23.66	25.00	1.361	-0.18	0.256	0.349
	LTE Band 66_Ant 0	20M	QPSK	50	24	Edge 1	28mm	Battery1	Sensor OFF	132322	1745	SKU1	22.70	24.00	1.349	-0.19	0.201	0.271
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132322	1745	SKU1	20.38	20.50	1.028	0	0.988	1.016
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132072	1720	SKU1	20.27	20.50	1.054	0.1	0.966	1.019
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132572	1770	SKU1	20.24	20.50	1.062	-0.07	1.000	1.062
	LTE Band 66_Ant 0	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	132322	1745	SKU1	19.49	19.50	1.002	0.19	0.839	0.841
	LTE Band 66_Ant 0	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	132072	1720	SKU1	19.36	19.50	1.033	0	0.826	0.853
	LTE Band 66_Ant 0	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	132572	1770	SKU1	19.30	19.50	1.047	-0.08	0.812	0.850
	LTE Band 66_Ant 0	20M	QPSK	100	0	Bottom Face	0mm	Battery1	Sensor ON	132322	1745	SKU1	19.33	19.50	1.040	0.1	0.818	0.851
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132322	1745	SKU1	20.38	20.50	1.028	0.13	1.090	1.121
11	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132072	1720	SKU1	20.27	20.50	1.054	0.05	1.130	1.191
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132572	1770	SKU1	20.24	20.50	1.062	-0.07	1.020	1.083
	LTE Band 66_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	132322	1745	SKU1	19.49	19.50	1.002	0.05	0.923	0.925
	LTE Band 66_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	132072	1720	SKU1	19.36	19.50	1.033	0.07	0.914	0.944
	LTE Band 66_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	132572	1770	SKU1	19.30	19.50	1.047	0.09	0.929	0.973
	LTE Band 66_Ant 0	20M	QPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	132322	1745	SKU1	19.33	19.50	1.040	0	0.907	0.943
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 2	0mm	Battery1	Sensor OFF	132322	1745	SKU1	23.66	25.00	1.361	-0.19	0.254	0.346
	LTE Band 66_Ant 0	20M	QPSK	50	24	Edge 2	0mm	Battery1	Sensor OFF	132322	1745	SKU1	22.70	24.00	1.349	0.13	0.203	0.274
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132072	1720	SKU2	20.27	20.50	1.054	-0.19	1.030	1.086
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132322	1745	SKU2	20.38	20.50	1.028	0.01	0.988	1.016
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132572	1770	SKU2	20.24	20.50	1.062	0.06	0.943	1.001
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132072	1720	SKU3	20.27	20.50	1.054	-0.09	1.050	1.107
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132322	1745	SKU3	20.38	20.50	1.028	0.16	0.946	0.973
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132572	1770	SKU3	20.24	20.50	1.062	-0.17	0.928	0.985
	LTE Band 66_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor ON	132072	1720	SKU1	20.27	20.50	1.054	0.16	0.990	1.044
	LTE Band 66B_Ant 0	15M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132047+132140	1717.5	SKU1	19.81	20.50	1.172	0.09	0.957	1.122
	LTE Band 66B_Ant 0	15M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132229+132322	1735.7	SKU1	19.92	20.50	1.143	-0.13	0.932	1.065
	LTE Band 66B_Ant 0	15M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132504+132597	1763.2	SKU1	19.85	20.50	1.161	0.02	0.921	1.070
	LTE Band 66C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132072+132270	1720	SKU1	19.63	20.50	1.222	-0.08	0.970	1.185
	LTE Band 66C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132322+132124	1745	SKU1	19.94	20.50	1.138	0.1	0.945	1.075
	LTE Band 66C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132572+132374	1770	SKU1	19.89	20.50	1.151	0.04	0.933	1.074
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	25mm	Battery1	Sensor OFF	132322	1745	SKU1	22.95	24.00	1.274	0.08	0.199	0.253
	LTE Band 66_Ant 2	20M	QPSK	50	24	Bottom Face	25mm	Battery1	Sensor OFF	132322	1745	SKU1	21.93	23.00	1.279	-0.17	0.145	0.186
	LTE Band 66_Ant 2	20M	QPSK	1	0	Edge 1	26mm	Battery1	Sensor OFF	132322	1745	SKU1	22.95	24.00	1.274	-0.17	0.136	0.173
	LTE Band 66_Ant 2	20M	QPSK	50	24	Edge 1	26mm	Battery1	Sensor OFF	132322	1745	SKU1	21.93	23.00	1.279	0.14	0.101	0.129
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132322	1745	SKU1	20.85	22.00	1.303	-0.18	0.827	1.078
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132072	1720	SKU1	20.83	22.00	1.309	-0.05	0.739	0.967
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132572	1770	SKU1	20.74	22.00	1.337	0.08	0.881	1.178
	LTE Band 66_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	132322	1745	SKU1	20.66	22.00	1.361	-0.15	0.762	1.037
	LTE Band 66_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	132072	1720	SKU1	20.60	22.00	1.380	-0.1	0.697	0.962
	LTE Band 66_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	132572	1770	SKU1	20.59	22.00	1.384	0.06	0.851	1.177
	LTE Band 66_Ant 2	20M	QPSK	100	0	Bottom Face	0mm	Battery1	Sensor ON	132322	1745	SKU1	20.51	22.00	1.409	0.04	0.744	1.049
	LTE Band 66_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132322	1745	SKU1	20.85	22.00	1.303	-0.05	0.800	1.043
	LTE Band 66_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132072	1720	SKU1	20.83	22.00	1.309	0.1	0.719	0.941
	LTE Band 66_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	132572	1770	SKU1	20.74	22.00	1.337	-0.08	0.827	1.105
	LTE Band 66_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	132322	1745	SKU1	20.66	22.00	1.361	0.09	0.711	0.968
	LTE Band 66_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	132072	1720	SKU1	20.60	22.00	1.380	0.14	0.713	0.984
	LTE Band 66_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	132572	1770	SKU1	20.59	22.00	1.384	-0.01	0.727	1.006
	LTE Band 66_Ant 2	20M	QPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	132322	1745	SKU1	20.51	22.00	1.409	0.14	0.642	0.905
	LTE Band 66_Ant 2	20M	QPSK	1	0	Edge 4	0mm	Battery1	Sensor OFF	132322	1745	SKU1	22.95	24.00	1.274	0.18	0.435	0.554
	LTE Band 66_Ant 2	20M	QPSK	50	24	Edge 4	0mm	Battery1	Sensor OFF	132322	1745	SKU1	21.93	23.00	1.279	0.08	0.336	0.430
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132572	1770	SKU2	20.74	22.00	1.337	-0.1	0.824	1.101
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132322	1745	SKU2	20.85	22.00	1.303	-0.12	0.753	0.981
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132072	1720	SKU2	20.83	22.00	1.309	0.11	0.669	0.876
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132572	1770	SKU3	20.74	22.00	1.337	-0.17	0.838	1.120
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132322	1745	SKU3	20.85	22.00	1.303	0	0.787	1.026
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	132072	1720	SKU3	20.83	22.00	1.309	0.01	0.683	0.894
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery2	Sensor ON	132572	1770	SKU1	20.74	22.00	1.337	0.05	0.783	1.047



FCC SAR TEST REPORT

Report No. : FA471511

	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor OFF	133297	680.5	SKU1	23.79	25.00	1.321	0.1	0.534	0.706
	LTE Band 71_Ant 0	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor OFF	133297	680.5	SKU1	22.85	24.00	1.303	-0.02	0.516	0.672
12	LTE Band 71_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor OFF	133297	680.5	SKU1	23.79	25.00	1.321	0.08	0.538	0.711
	LTE Band 71_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor OFF	133297	680.5	SKU1	22.85	24.00	1.303	0.11	0.506	0.659
	LTE Band 71_Ant 0	20M	QPSK	1	0	Edge 2	0mm	Battery1	Sensor OFF	133297	680.5	SKU1	23.79	25.00	1.321	0.04	0.081	0.107
	LTE Band 71_Ant 0	20M	QPSK	50	24	Edge 2	0mm	Battery1	Sensor OFF	133297	680.5	SKU1	22.85	24.00	1.303	0.01	0.052	0.068
	LTE Band 71_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor OFF	133297	680.5	SKU2	23.79	25.00	1.321	-0.08	0.516	0.682
	LTE Band 71_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor OFF	133297	680.5	SKU3	23.79	25.00	1.321	0.01	0.512	0.677
	LTE Band 71_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor OFF	133297	680.5	SKU1	23.79	25.00	1.321	-0.15	0.520	0.687

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	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)
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Face	21mm	Battery1	Sensor OFF	41055	2636.5	SKU1	23.70	25.00	1.349	62.9	1.006	0.16	0.172	0.233
	LTE Band 41_Ant 0	20M	QPSK	50	24	Bottom Face	21mm	Battery1	Sensor OFF	41055	2636.5	SKU1	22.78	24.00	1.324	62.9	1.006	0.12	0.134	0.179
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	28mm	Battery1	Sensor OFF	41055	2636.5	SKU1	23.70	25.00	1.349	62.9	1.006	-0.01	0.237	0.322
	LTE Band 41_Ant 0	20M	QPSK	50	24	Edge 1	28mm	Battery1	Sensor OFF	41055	2636.5	SKU1	22.78	24.00	1.324	62.9	1.006	0.03	0.187	0.249
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	41055	2636.5	SKU1	19.14	19.50	1.086	62.9	1.006	0.16	0.458	0.501
	LTE Band 41_Ant 0	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	41055	2636.5	SKU1	18.25	18.50	1.059	62.9	1.006	0.05	0.383	0.408
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41055	2636.5	SKU1	19.14	19.50	1.086	62.9	1.006	0.18	0.942	1.030
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	39750	2506	SKU1	19.03	19.50	1.114	62.9	1.006	0.14	0.900	1.009
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40185	2549.5	SKU1	18.76	19.50	1.186	62.9	1.006	-0.16	0.979	1.168
13	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU1	19.12	19.50	1.091	62.9	1.006	-0.02	1.080	1.186
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41490	2680	SKU1	19.13	19.50	1.089	62.9	1.006	-0.08	0.783	0.858
	LTE Band 41_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	41055	2636.5	SKU1	18.25	18.50	1.059	62.9	1.006	-0.02	0.842	0.897
	LTE Band 41_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	39750	2506	SKU1	18.10	18.50	1.096	62.9	1.006	-0.07	0.847	0.934
	LTE Band 41_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	40185	2549.5	SKU1	17.84	18.50	1.164	62.9	1.006	0.19	0.816	0.956
	LTE Band 41_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU1	18.20	18.50	1.072	62.9	1.006	-0.02	0.866	0.934
	LTE Band 41_Ant 0	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	41490	2680	SKU1	18.13	18.50	1.089	62.9	1.006	-0.06	0.636	0.697
	LTE Band 41_Ant 0	20M	QPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	41055	2636.5	SKU1	18.19	18.50	1.074	62.9	1.006	-0.19	0.814	0.879
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 2	0mm	Battery1	Sensor OFF	41055	2636.5	SKU1	23.70	25.00	1.349	62.9	1.006	-0.04	0.048	0.065
	LTE Band 41_Ant 0	20M	QPSK	50	24	Edge 2	0mm	Battery1	Sensor OFF	41055	2636.5	SKU1	22.78	24.00	1.324	62.9	1.006	0.1	0.026	0.035
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41055	2636.5	SKU1	21.24	21.50	1.062	42.9	1.009	-0.12	0.906	0.971
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	39750	2506	SKU1	20.99	21.50	1.125	42.9	1.009	0.14	0.879	0.997
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40185	2549.5	SKU1	20.76	21.50	1.186	42.9	1.009	-0.16	0.964	1.153
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU1	21.19	21.50	1.074	42.9	1.009	-0.04	1.070	1.160
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41490	2680	SKU1	21.15	21.50	1.084	42.9	1.009	-0.08	0.759	0.830
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU2	19.12	19.50	1.091	62.9	1.006	-0.06	0.957	1.051
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41055	2636.5	SKU2	19.14	19.50	1.086	62.9	1.006	0.08	0.835	0.913
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	39750	2506	SKU2	19.03	19.50	1.114	62.9	1.006	-0.07	0.798	0.895
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40185	2549.5	SKU2	18.76	19.50	1.186	62.9	1.006	-0.05	0.868	1.035
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41490	2680	SKU2	19.13	19.50	1.089	62.9	1.006	-0.03	0.694	0.760
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU3	19.12	19.50	1.091	62.9	1.006	0.12	0.998	1.096
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41055	2636.5	SKU3	19.14	19.50	1.086	62.9	1.006	0.14	0.870	0.951
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	39750	2506	SKU3	19.03	19.50	1.114	62.9	1.006	-0.01	0.832	0.933
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40185	2549.5	SKU3	18.76	19.50	1.186	62.9	1.006	0.09	0.905	1.080
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41490	2680	SKU3	19.13	19.50	1.089	62.9	1.006	0.1	0.724	0.793
	LTE Band 41_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor ON	40620	2593	SKU1	19.12	19.50	1.091	62.9	1.006	-0.06	0.979	1.075
	LTE Band 41C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	39750+39948	2506	SKU1	18.55	19.50	1.245	62.9	1.006	-0.05	0.794	0.994
	LTE Band 41C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40185+39987	2549.5	SKU1	18.36	19.50	1.300	62.9	1.006	-0.1	0.882	1.154
	LTE Band 41C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40620+40422	2593	SKU1	18.37	19.50	1.297	62.9	1.006	0.04	0.883	1.152
	LTE Band 41C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41055+40857	2636.5	SKU1	18.22	19.50	1.343	62.9	1.006	0.12	0.762	1.029
	LTE Band 41C_Ant 0	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41490+41292	2680	SKU1	18.30	19.50	1.318	62.9	1.006	-0.06	0.646	0.857



FCC SAR TEST REPORT

Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	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)
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Face	25mm	Battery1	Sensor OFF	40620	2593	SKU1	22.85	24.00	1.303	62.9	1.006	0.08	0.165	0.216
	LTE Band 41_Ant 2	20M	QPSK	50	24	Bottom Face	25mm	Battery1	Sensor OFF	40620	2593	SKU1	21.86	23.00	1.300	62.9	1.006	0.14	0.127	0.166
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	26mm	Battery1	Sensor OFF	40620	2593	SKU1	22.85	24.00	1.303	62.9	1.006	-0.1	0.289	0.379
	LTE Band 41_Ant 2	20M	QPSK	50	24	Edge 1	26mm	Battery1	Sensor OFF	40620	2593	SKU1	21.86	23.00	1.300	62.9	1.006	-0.08	0.230	0.301
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	40620	2593	SKU1	16.31	17.00	1.172	62.9	1.006	-0.03	0.319	0.376
	LTE Band 41_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	40620	2593	SKU1	16.31	17.00	1.172	62.9	1.006	-0.05	0.331	0.390
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU1	16.31	17.00	1.172	62.9	1.006	-0.16	0.752	0.887
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	39750	2506	SKU1	16.22	17.00	1.197	62.9	1.006	0.12	0.814	0.980
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40185	2549.5	SKU1	16.25	17.00	1.189	62.9	1.006	0.1	0.796	0.952
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41055	2636.5	SKU1	16.17	17.00	1.211	62.9	1.006	0.06	0.768	0.935
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41490	2680	SKU1	16.18	17.00	1.208	62.9	1.006	-0.09	0.883	1.073
	LTE Band 41_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU1	16.31	17.00	1.172	62.9	1.006	0.05	0.734	0.866
	LTE Band 41_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	39750	2506	SKU1	16.18	17.00	1.208	62.9	1.006	0.03	0.792	0.962
	LTE Band 41_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	40185	2549.5	SKU1	16.21	17.00	1.199	62.9	1.006	-0.11	0.769	0.928
	LTE Band 41_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	41055	2636.5	SKU1	16.11	17.00	1.227	62.9	1.006	-0.08	0.733	0.905
	LTE Band 41_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	41490	2680	SKU1	16.22	17.00	1.197	62.9	1.006	-0.04	0.834	1.004
	LTE Band 41_Ant 2	20M	QPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU1	16.25	17.00	1.189	62.9	1.006	0.1	0.737	0.881
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 4	0mm	Battery1	Sensor OFF	40620	2593	SKU1	22.85	24.00	1.303	62.9	1.006	-0.19	0.277	0.363
	LTE Band 41_Ant 2	20M	QPSK	50	24	Edge 4	0mm	Battery1	Sensor OFF	40620	2593	SKU1	21.86	23.00	1.300	62.9	1.006	-0.02	0.229	0.300
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41490	2680	SKU2	16.18	17.00	1.208	62.9	1.006	0.03	0.778	0.945
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU2	16.31	17.00	1.172	62.9	1.006	-0.16	0.663	0.782
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	39750	2506	SKU2	16.22	17.00	1.197	62.9	1.006	0.12	0.717	0.863
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40185	2549.5	SKU2	16.25	17.00	1.189	62.9	1.006	0.1	0.701	0.838
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41055	2636.5	SKU2	16.17	17.00	1.211	62.9	1.006	0.06	0.677	0.824
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41490	2680	SKU3	16.18	17.00	1.208	62.9	1.006	0.06	0.798	0.970
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU3	16.31	17.00	1.172	62.9	1.006	-0.16	0.680	0.801
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	39750	2506	SKU3	16.22	17.00	1.197	62.9	1.006	0.08	0.736	0.886
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	40185	2549.5	SKU3	16.25	17.00	1.189	62.9	1.006	0.16	0.719	0.860
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	41055	2636.5	SKU3	16.17	17.00	1.211	62.9	1.006	0	0.694	0.845
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery2	Sensor ON	41490	2680	SKU1	16.18	17.00	1.208	62.9	1.006	0.1	0.871	1.058



FCC SAR TEST REPORT

Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	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)
	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	25mm	Battery1	Sensor OFF	42190	3460	SKU1	21.04	22.00	1.247	62.9	1.006	-0.01	0.179	0.225
	LTE Band 42_Ant 2	20M	QPSK	50	24	Bottom Face	25mm	Battery1	Sensor OFF	42190	3460	SKU1	20.10	21.00	1.230	62.9	1.006	-0.06	0.138	0.171
	LTE Band 42_Ant 2	20M	QPSK	1	0	Edge 1	26mm	Battery1	Sensor OFF	42190	3460	SKU1	21.04	22.00	1.247	62.9	1.006	0.19	0.110	0.138
	LTE Band 42_Ant 2	20M	QPSK	50	24	Edge 1	26mm	Battery1	Sensor OFF	42190	3460	SKU1	20.10	21.00	1.230	62.9	1.006	0.05	0.080	0.099
	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42190	3460	SKU1	19.28	19.50	1.052	62.9	1.006	-0.11	0.923	0.977
14	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42590	3500	SKU1	18.90	19.50	1.148	62.9	1.006	0.05	0.939	1.085
	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42990	3540	SKU1	18.86	19.50	1.159	62.9	1.006	-0.18	0.892	1.040
	LTE Band 42_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	42190	3460	SKU1	18.33	18.50	1.040	62.9	1.006	0.08	0.826	0.864
	LTE Band 42_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	42590	3500	SKU1	17.97	18.50	1.130	62.9	1.006	0.04	0.788	0.896
	LTE Band 42_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	42990	3540	SKU1	17.93	18.50	1.140	62.9	1.006	0.16	0.756	0.867
	LTE Band 42_Ant 2	20M	QPSK	100	0	Bottom Face	0mm	Battery1	Sensor ON	42190	3460	SKU1	18.34	18.50	1.038	62.9	1.006	0.04	0.812	0.848
	LTE Band 42_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	42190	3460	SKU1	19.28	19.50	1.052	62.9	1.006	-0.08	0.908	0.961
	LTE Band 42_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	42590	3500	SKU1	18.90	19.50	1.148	62.9	1.006	-0.05	0.838	0.968
	LTE Band 42_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	42990	3540	SKU1	18.86	19.50	1.159	62.9	1.006	-0.18	0.742	0.865
	LTE Band 42_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	42190	3460	SKU1	18.33	18.50	1.040	62.9	1.006	0.17	0.739	0.773
	LTE Band 42_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	42590	3500	SKU1	17.97	18.50	1.130	62.9	1.006	0.09	0.698	0.793
	LTE Band 42_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	42990	3540	SKU1	17.93	18.50	1.140	62.9	1.006	-0.18	0.675	0.774
	LTE Band 42_Ant 2	20M	QPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	42190	3460	SKU1	18.34	18.50	1.038	62.9	1.006	0.02	0.722	0.754
	LTE Band 42_Ant 2	20M	QPSK	1	0	Edge 4	0mm	Battery1	Sensor OFF	42190	3460	SKU1	21.04	22.00	1.247	62.9	1.006	-0.18	0.194	0.243
	LTE Band 42_Ant 2	20M	QPSK	50	24	Edge 4	0mm	Battery1	Sensor OFF	42190	3460	SKU1	20.10	21.00	1.230	62.9	1.006	-0.11	0.126	0.156
	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42590	3500	SKU2	18.90	19.50	1.148	62.9	1.006	-0.13	0.782	0.903
	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42190	3460	SKU2	19.28	19.50	1.052	62.9	1.006	-0.15	0.769	0.814
	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42990	3540	SKU2	18.86	19.50	1.159	62.9	1.006	0	0.743	0.866
	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42590	3500	SKU3	18.90	19.50	1.148	62.9	1.006	0.13	0.715	0.826
	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42190	3460	SKU3	19.28	19.50	1.052	62.9	1.006	0.01	0.703	0.744
	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42990	3540	SKU3	18.86	19.50	1.159	62.9	1.006	0.04	0.679	0.792
	LTE Band 42_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery2	Sensor ON	42590	3500	SKU1	18.90	19.50	1.148	62.9	1.006	-0.15	0.891	1.029
	LTE Band 42C_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42190+42388	3460	SKU1	18.85	19.50	1.161	62.9	1.006	0.19	0.843	0.985
	LTE Band 42C_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42392+42590	3480.2	SKU1	18.73	19.50	1.194	62.9	1.006	0.04	0.804	0.966
	LTE Band 42C_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	42792+42990	3520.2	SKU1	18.56	19.50	1.242	62.9	1.006	-0.13	0.821	1.026
	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	25mm	Battery1	Sensor OFF	45090	3750	SKU1	21.03	22.00	1.250	62.9	1.006	-0.19	0.208	0.262
	LTE Band 43_Ant 2	20M	QPSK	50	50	Bottom Face	25mm	Battery1	Sensor OFF	45090	3750	SKU1	20.15	21.00	1.216	62.9	1.006	0.17	0.144	0.176
	LTE Band 43_Ant 2	20M	QPSK	1	0	Edge 1	26mm	Battery1	Sensor OFF	45090	3750	SKU1	21.03	22.00	1.250	62.9	1.006	-0.08	0.118	0.148
	LTE Band 43_Ant 2	20M	QPSK	50	50	Edge 1	26mm	Battery1	Sensor OFF	45090	3750	SKU1	20.15	21.00	1.216	62.9	1.006	-0.17	0.095	0.116
	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	45090	3750	SKU1	18.75	19.00	1.059	62.9	1.006	-0.07	0.898	0.957
15	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	44690	3710	SKU1	18.72	19.00	1.067	62.9	1.006	0.14	1.070	1.148
	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	45490	3790	SKU1	18.59	19.00	1.099	62.9	1.006	0.16	0.843	0.932
	LTE Band 43_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	45090	3750	SKU1	17.83	18.00	1.040	62.9	1.006	0.07	0.726	0.760
	LTE Band 43_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	44690	3710	SKU1	17.81	18.00	1.045	62.9	1.006	0.11	0.880	0.925
	LTE Band 43_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	45490	3790	SKU1	17.55	18.00	1.109	62.9	1.006	-0.02	0.659	0.735
	LTE Band 43_Ant 2	20M	QPSK	100	0	Bottom Face	0mm	Battery1	Sensor ON	45090	3750	SKU1	17.78	18.00	1.052	62.9	1.006	0.1	0.715	0.757
	LTE Band 43_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	45090	3750	SKU1	18.75	19.00	1.059	62.9	1.006	-0.05	0.480	0.511
	LTE Band 43_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	45090	3750	SKU1	17.83	18.00	1.040	62.9	1.006	0.16	0.403	0.422
	LTE Band 43_Ant 2	20M	QPSK	1	0	Edge 4	0mm	Battery1	Sensor OFF	45090	3750	SKU1	21.03	22.00	1.250	62.9	1.006	0.15	0.195	0.245
	LTE Band 43_Ant 2	20M	QPSK	50	50	Edge 4	0mm	Battery1	Sensor OFF	45090	3750	SKU1	20.15	21.00	1.216	62.9	1.006	0.19	0.128	0.157
	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	44690	3710	SKU2	18.72	19.00	1.067	62.9	1.006	-0.08	0.803	0.862
	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	45090	3750	SKU2	18.75	19.00	1.059	62.9	1.006	0.04	0.668	0.712
	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	45490	3790	SKU2	18.59	19.00	1.099	62.9	1.006	-0.04	0.627	0.693
	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	44690	3710	SKU3	18.72	19.00	1.067	62.9	1.006	0.09	0.724	0.777
	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	45090	3750	SKU3	18.75	19.00	1.059	62.9	1.006	0.19	0.602	0.641
	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	45490	3790	SKU3	18.59	19.00	1.099	62.9	1.006	0.16	0.565	0.625
	LTE Band 43_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery2	Sensor ON	44690	3710	SKU1	18.72	19.00	1.067	62.9	1.006	-0.1	0.995	1.068
	LTE Band 43C_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	44690+44888	3710	SKU1	18.33	19.00	1.167	62.9	1.006	0.06	0.755	0.886
	LTE Band 43C_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	45090+44892	3750	SKU1	18.52	19.00	1.117	62.9	1.006	-0.08	0.726	0.816
	LTE Band 43C_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	45490+45292	3790	SKU1	18.41	19.00	1.146	62.9	1.006	0.04	0.711	0.819



FCC SAR TEST REPORT

Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	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)
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	25mm	Battery1	Sensor OFF	56640	3690	SKU1	21.02	22.00	1.253	62.9	1.006	0.02	0.258	0.325
	LTE Band 48_Ant 2	20M	QPSK	50	24	Bottom Face	25mm	Battery1	Sensor OFF	56640	3690	SKU1	20.04	21.00	1.247	62.9	1.006	0.04	0.206	0.259
	LTE Band 48_Ant 2	20M	QPSK	1	0	Edge 1	26mm	Battery1	Sensor OFF	56640	3690	SKU1	21.02	22.00	1.253	62.9	1.006	-0.11	0.151	0.190
	LTE Band 48_Ant 2	20M	QPSK	50	24	Edge 1	26mm	Battery1	Sensor OFF	56640	3690	SKU1	20.04	21.00	1.247	62.9	1.006	0.19	0.111	0.139
16	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	56150	3641	SKU1	19.17	19.50	1.079	62.9	1.006	0.03	1.010	1.096
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	55340	3560	SKU1	19.16	19.50	1.081	62.9	1.006	0.07	0.830	0.903
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	55830	3609	SKU1	19.12	19.50	1.091	62.9	1.006	0.16	0.897	0.985
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	56640	3690	SKU1	19.13	19.50	1.089	62.9	1.006	-0.14	0.996	1.091
	LTE Band 48_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	56150	3641	SKU1	18.42	18.50	1.019	62.9	1.006	0.05	0.861	0.882
	LTE Band 48_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	55340	3560	SKU1	18.26	18.50	1.057	62.9	1.006	-0.06	0.682	0.725
	LTE Band 48_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	55830	3609	SKU1	18.18	18.50	1.076	62.9	1.006	-0.02	0.723	0.783
	LTE Band 48_Ant 2	20M	QPSK	50	24	Bottom Face	0mm	Battery1	Sensor ON	56640	3690	SKU1	18.38	18.50	1.028	62.9	1.006	-0.05	0.835	0.864
	LTE Band 48_Ant 2	20M	QPSK	100	0	Bottom Face	0mm	Battery1	Sensor ON	56150	3641	SKU1	18.37	18.50	1.030	62.9	1.006	0.12	0.838	0.869
	LTE Band 48_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	56150	3641	SKU1	19.17	19.50	1.079	62.9	1.006	0.11	0.590	0.640
	LTE Band 48_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	55340	3560	SKU1	19.16	19.50	1.081	62.9	1.006	0.07	0.590	0.642
	LTE Band 48_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	55830	3609	SKU1	19.12	19.50	1.091	62.9	1.006	0.16	0.550	0.604
	LTE Band 48_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery1	Sensor ON	56640	3690	SKU1	19.13	19.50	1.089	62.9	1.006	0.11	0.613	0.672
	LTE Band 48_Ant 2	20M	QPSK	50	24	Edge 1	0mm	Battery1	Sensor ON	56150	3641	SKU1	18.42	18.50	1.019	62.9	1.006	0.1	0.489	0.501
	LTE Band 48_Ant 2	20M	QPSK	1	0	Edge 4	0mm	Battery1	Sensor OFF	56640	3690	SKU1	21.02	22.00	1.253	62.9	1.006	0.16	0.210	0.265
	LTE Band 48_Ant 2	20M	QPSK	50	24	Edge 4	0mm	Battery1	Sensor OFF	56640	3690	SKU1	20.04	21.00	1.247	62.9	1.006	-0.09	0.132	0.166
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	56150	3641	SKU2	19.17	19.50	1.079	62.9	1.006	0.1	0.828	0.899
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	55340	3560	SKU2	19.16	19.50	1.081	62.9	1.006	0.07	0.680	0.740
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	55830	3609	SKU2	19.12	19.50	1.091	62.9	1.006	0.13	0.649	0.713
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	56640	3690	SKU2	19.13	19.50	1.089	62.9	1.006	-0.05	0.656	0.719
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	56150	3641	SKU3	19.17	19.50	1.079	62.9	1.006	0.01	0.687	0.746
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	55340	3560	SKU3	19.16	19.50	1.081	62.9	1.006	0.01	0.565	0.615
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	55830	3609	SKU3	19.12	19.50	1.091	62.9	1.006	0.1	0.610	0.670
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	56640	3690	SKU3	19.13	19.50	1.089	62.9	1.006	-0.07	0.677	0.742
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery2	Sensor ON	56150	3641	SKU1	19.17	19.50	1.079	62.9	1.006	-0.14	0.963	1.045
	LTE Band 48C_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	55340+55538	3560	SKU1	19.11	19.50	1.094	62.9	1.006	0.11	0.885	0.974
	LTE Band 48C_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	55632+55830	3589.2	SKU1	19.07	19.50	1.104	62.9	1.006	-0.13	0.713	0.792
	LTE Band 48C_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	55952+56150	3621.2	SKU1	18.93	19.50	1.140	62.9	1.006	0.07	0.759	0.871
	LTE Band 48C_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery1	Sensor ON	56442+56640	3690.2	SKU1	19.15	19.50	1.084	62.9	1.006	-0.14	0.898	0.979



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7_Ant 0	40M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	507000	2535	SKU1	23.89	25.00	1.291	-0.09	0.161	0.208
	FR1 n7_Ant 0	40M	BPSK	108	54	Bottom Face	21mm	Battery1	Sensor OFF	507000	2535	SKU1	23.70	25.00	1.349	0.14	0.138	0.186
	FR1 n7_Ant 0	40M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	507000	2535	SKU1	23.89	25.00	1.291	0.16	0.232	0.300
	FR1 n7_Ant 0	40M	BPSK	108	54	Edge 1	28mm	Battery1	Sensor OFF	507000	2535	SKU1	23.70	25.00	1.349	-0.13	0.199	0.268
	FR1 n7_Ant 0	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	507000	2535	SKU1	17.85	18.00	1.035	0.08	0.320	0.331
	FR1 n7_Ant 0	40M	BPSK	108	54	Bottom Face	0mm	Battery1	Sensor ON	507000	2535	SKU1	17.77	18.00	1.054	0.12	0.303	0.319
	FR1 n7_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	507000	2535	SKU1	17.85	18.00	1.035	0.07	0.974	1.008
	FR1 n7_Ant 0	40M	BPSK	108	54	Edge 1	0mm	Battery1	Sensor ON	507000	2535	SKU1	17.77	18.00	1.054	0.04	0.898	0.947
	FR1 n7_Ant 0	40M	BPSK	216	0	Edge 1	0mm	Battery1	Sensor ON	507000	2535	SKU1	17.79	18.00	1.050	-0.14	0.869	0.912
	FR1 n7_Ant 0	40M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	507000	2535	SKU1	23.89	25.00	1.291	0.17	0.071	0.092
	FR1 n7_Ant 0	40M	BPSK	108	54	Edge 2	0mm	Battery1	Sensor OFF	507000	2535	SKU1	23.70	25.00	1.349	0.11	0.034	0.046
	FR1 n7_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	507000	2535	SKU2	17.85	18.00	1.035	-0.07	0.910	0.942
	FR1 n7_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	507000	2535	SKU3	17.85	18.00	1.035	0.08	0.944	0.977
	FR1 n7_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	507000	2535	SKU1	17.85	18.00	1.035	-0.01	0.961	0.995
	FR1 n7_Ant 2	40M	BPSK	1	1	Bottom Face	25mm	Battery1	Sensor OFF	507000	2535	SKU1	23.10	24.00	1.230	-0.11	0.182	0.224
	FR1 n7_Ant 2	40M	BPSK	108	54	Bottom Face	25mm	Battery1	Sensor OFF	507000	2535	SKU1	23.01	24.00	1.256	-0.04	0.152	0.191
	FR1 n7_Ant 2	40M	BPSK	1	1	Edge 1	26mm	Battery1	Sensor OFF	507000	2535	SKU1	23.10	24.00	1.230	0.1	0.307	0.378
	FR1 n7_Ant 2	40M	BPSK	108	54	Edge 1	26mm	Battery1	Sensor OFF	507000	2535	SKU1	23.01	24.00	1.256	0.18	0.257	0.323
	FR1 n7_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	507000	2535	SKU1	15.07	16.00	1.239	0.13	0.401	0.497
	FR1 n7_Ant 2	40M	BPSK	108	54	Bottom Face	0mm	Battery1	Sensor ON	507000	2535	SKU1	14.92	16.00	1.282	0.04	0.301	0.386
17	FR1 n7_Ant 2	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	507000	2535	SKU1	15.07	16.00	1.239	-0.06	0.899	1.114
	FR1 n7_Ant 2	40M	BPSK	108	54	Edge 1	0mm	Battery1	Sensor ON	507000	2535	SKU1	14.92	16.00	1.282	0.09	0.792	1.016
	FR1 n7_Ant 2	40M	BPSK	216	0	Edge 1	0mm	Battery1	Sensor ON	507000	2535	SKU1	14.90	16.00	1.288	0.08	0.709	0.913
	FR1 n7_Ant 2	40M	BPSK	1	1	Edge 4	0mm	Battery1	Sensor OFF	507000	2535	SKU1	23.10	24.00	1.230	-0.18	0.468	0.576
	FR1 n7_Ant 2	40M	BPSK	108	54	Edge 4	0mm	Battery1	Sensor OFF	507000	2535	SKU1	23.01	24.00	1.256	0.18	0.339	0.426
	FR1 n7_Ant 2	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	507000	2535	SKU2	15.07	16.00	1.239	-0.06	0.798	0.989
	FR1 n7_Ant 2	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	507000	2535	SKU3	15.07	16.00	1.239	-0.16	0.821	1.017
	FR1 n7_Ant 2	40M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	507000	2535	SKU1	15.07	16.00	1.239	-0.08	0.885	1.096
	FR1 n12_Ant 0	15M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor OFF	141500	707.5	SKU1	24.30	25.00	1.175	-0.05	0.658	0.773
	FR1 n12_Ant 0	15M	BPSK	36	22	Bottom Face	0mm	Battery1	Sensor OFF	141500	707.5	SKU1	24.29	25.00	1.178	0.14	0.612	0.721
18	FR1 n12_Ant 0	15M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor OFF	141500	707.5	SKU1	24.30	25.00	1.175	-0.02	0.759	0.892
	FR1 n12_Ant 0	15M	BPSK	36	22	Edge 1	0mm	Battery1	Sensor OFF	141500	707.5	SKU1	24.29	25.00	1.178	-0.06	0.708	0.834
	FR1 n12_Ant 0	15M	BPSK	75	0	Edge 1	0mm	Battery1	Sensor OFF	141500	707.5	SKU1	23.92	24.50	1.143	0.08	0.631	0.721
	FR1 n12_Ant 0	15M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	141500	707.5	SKU1	24.30	25.00	1.175	-0.16	0.091	0.107
	FR1 n12_Ant 0	15M	BPSK	36	22	Edge 2	0mm	Battery1	Sensor OFF	141500	707.5	SKU1	24.29	25.00	1.178	-0.1	0.061	0.072
	FR1 n12_Ant 0	15M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor OFF	141500	707.5	SKU2	24.30	25.00	1.175	-0.17	0.629	0.739
	FR1 n12_Ant 0	15M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor OFF	141500	707.5	SKU3	24.30	25.00	1.175	0.15	0.686	0.806
	FR1 n12_Ant 0	15M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor OFF	141500	707.5	SKU1	24.30	25.00	1.175	0.18	0.737	0.866
	FR1 n13_Ant 0	10M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	156400	782	SKU1	24.19	25.00	1.205	-0.08	0.158	0.190
	FR1 n13_Ant 0	10M	BPSK	25	14	Bottom Face	21mm	Battery1	Sensor OFF	156400	782	SKU1	24.12	25.00	1.225	-0.12	0.135	0.165
	FR1 n13_Ant 0	10M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	156400	782	SKU1	24.19	25.00	1.205	0.08	0.228	0.275
	FR1 n13_Ant 0	10M	BPSK	25	14	Edge 1	28mm	Battery1	Sensor OFF	156400	782	SKU1	24.12	25.00	1.225	-0.12	0.195	0.239
	FR1 n13_Ant 0	10M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	156400	782	SKU1	23.54	24.50	1.247	-0.19	0.628	0.783
	FR1 n13_Ant 0	10M	BPSK	25	14	Bottom Face	0mm	Battery1	Sensor ON	156400	782	SKU1	23.50	24.50	1.259	0.19	0.563	0.709
19	FR1 n13_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	156400	782	SKU1	23.54	24.50	1.247	0.06	0.858	1.070
	FR1 n13_Ant 0	10M	BPSK	25	14	Edge 1	0mm	Battery1	Sensor ON	156400	782	SKU1	23.50	24.50	1.259	-0.06	0.816	1.027
	FR1 n13_Ant 0	10M	BPSK	50	0	Edge 1	0mm	Battery1	Sensor ON	156400	782	SKU1	23.49	24.50	1.262	0.07	0.821	1.036
	FR1 n13_Ant 0	10M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	156400	782	SKU1	24.19	25.00	1.205	0.17	0.080	0.096
	FR1 n13_Ant 0	10M	BPSK	25	14	Edge 2	0mm	Battery1	Sensor OFF	156400	782	SKU1	24.12	25.00	1.225	0.1	0.075	0.092
	FR1 n13_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	156400	782	SKU2	23.54	24.50	1.247	-0.15	0.825	1.029
	FR1 n13_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	156400	782	SKU3	23.54	24.50	1.247	0.11	0.813	1.014
	FR1 n13_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	156400	782	SKU1	23.54	24.50	1.247	-0.13	0.828	1.033



FCC SAR TEST REPORT

Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n14_Ant 0	10M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	158600	793	SKU1	24.18	25.00	1.208	-0.19	0.169	0.204
	FR1 n14_Ant 0	10M	BPSK	25	14	Bottom Face	21mm	Battery1	Sensor OFF	158600	793	SKU1	24.11	25.00	1.227	0.18	0.144	0.177
	FR1 n14_Ant 0	10M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	158600	793	SKU1	24.18	25.00	1.208	0.19	0.243	0.293
	FR1 n14_Ant 0	10M	BPSK	25	14	Edge 1	28mm	Battery1	Sensor OFF	158600	793	SKU1	24.11	25.00	1.227	-0.16	0.208	0.255
	FR1 n14_Ant 0	10M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	158600	793	SKU1	23.16	24.00	1.213	0.09	0.712	0.864
	FR1 n14_Ant 0	10M	BPSK	25	14	Bottom Face	0mm	Battery1	Sensor ON	158600	793	SKU1	23.15	24.00	1.216	-0.04	0.659	0.801
	FR1 n14_Ant 0	10M	BPSK	50	0	Bottom Face	0mm	Battery1	Sensor ON	158600	793	SKU1	23.13	24.00	1.222	0.06	0.676	0.826
20	FR1 n14_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	158600	793	SKU1	23.16	24.00	1.213	0.02	0.915	1.110
	FR1 n14_Ant 0	10M	BPSK	25	14	Edge 1	0mm	Battery1	Sensor ON	158600	793	SKU1	23.15	24.00	1.216	0.19	0.899	1.093
	FR1 n14_Ant 0	10M	BPSK	50	0	Edge 1	0mm	Battery1	Sensor ON	158600	793	SKU1	23.13	24.00	1.222	-0.16	0.881	1.076
	FR1 n14_Ant 0	10M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	158600	793	SKU1	24.18	25.00	1.208	0.07	0.110	0.133
	FR1 n14_Ant 0	10M	BPSK	25	14	Edge 2	0mm	Battery1	Sensor OFF	158600	793	SKU1	24.11	25.00	1.227	0.16	0.082	0.101
	FR1 n14_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	158600	793	SKU2	23.16	24.00	1.213	0.09	0.901	1.093
	FR1 n14_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	158600	793	SKU3	23.16	24.00	1.213	-0.19	0.892	1.082
	FR1 n14_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	158600	793	SKU1	23.16	24.00	1.213	-0.05	0.902	1.094
	FR1 n25_Ant 0	40M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	376500	1882.5	SKU1	24.07	25.00	1.239	0.12	0.260	0.322
	FR1 n25_Ant 0	40M	BPSK	108	54	Bottom Face	21mm	Battery1	Sensor OFF	376500	1882.5	SKU1	23.95	25.00	1.274	-0.05	0.243	0.309
	FR1 n25_Ant 0	40M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	376500	1882.5	SKU1	24.07	25.00	1.239	-0.1	0.181	0.224
	FR1 n25_Ant 0	40M	BPSK	108	54	Edge 1	28mm	Battery1	Sensor OFF	376500	1882.5	SKU1	23.95	25.00	1.274	-0.07	0.165	0.210
	FR1 n25_Ant 0	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	20.09	20.50	1.099	0.06	0.981	1.078
	FR1 n25_Ant 0	40M	BPSK	108	54	Bottom Face	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	20.07	20.50	1.104	0.03	0.946	1.044
	FR1 n25_Ant 0	40M	BPSK	216	0	Bottom Face	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	20.04	20.50	1.112	-0.08	0.933	1.037
	FR1 n25_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	20.09	20.50	1.099	-0.01	0.719	0.790
	FR1 n25_Ant 0	40M	BPSK	108	54	Edge 1	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	20.07	20.50	1.104	-0.14	0.696	0.768
	FR1 n25_Ant 0	40M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	376500	1882.5	SKU1	24.07	25.00	1.239	0.05	0.227	0.281
	FR1 n25_Ant 0	40M	BPSK	108	54	Edge 2	0mm	Battery1	Sensor OFF	376500	1882.5	SKU1	23.95	25.00	1.274	-0.02	0.193	0.246
	FR1 n25_Ant 0	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	376500	1882.5	SKU2	20.09	20.50	1.099	-0.06	0.921	1.012
	FR1 n25_Ant 0	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	376500	1882.5	SKU3	20.09	20.50	1.099	0.02	0.936	1.029
	FR1 n25_Ant 0	40M	BPSK	1	1	Bottom Face	0mm	Battery2	Sensor ON	376500	1882.5	SKU1	20.09	20.50	1.099	-0.17	0.920	1.011
	FR1 n25_Ant 2	40M	BPSK	1	1	Bottom Face	25mm	Battery1	Sensor OFF	376500	1882.5	SKU1	23.20	24.00	1.202	0.01	0.170	0.204
	FR1 n25_Ant 2	40M	BPSK	108	54	Bottom Face	25mm	Battery1	Sensor OFF	376500	1882.5	SKU1	23.18	24.00	1.208	-0.08	0.157	0.190
	FR1 n25_Ant 2	40M	BPSK	1	1	Edge 1	26mm	Battery1	Sensor OFF	376500	1882.5	SKU1	23.20	24.00	1.202	-0.18	0.126	0.151
	FR1 n25_Ant 2	40M	BPSK	108	54	Edge 1	26mm	Battery1	Sensor OFF	376500	1882.5	SKU1	23.18	24.00	1.208	-0.07	0.113	0.136
21	FR1 n25_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	21.67	22.50	1.211	0.14	0.897	1.086
	FR1 n25_Ant 2	40M	BPSK	108	54	Bottom Face	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	21.65	22.50	1.216	-0.18	0.829	1.008
	FR1 n25_Ant 2	40M	BPSK	216	0	Bottom Face	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	21.59	22.50	1.233	0	0.811	1.000
	FR1 n25_Ant 2	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	21.67	22.50	1.211	-0.06	0.767	0.929
	FR1 n25_Ant 2	40M	BPSK	108	54	Edge 1	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	21.65	22.50	1.216	-0.12	0.749	0.911
	FR1 n25_Ant 2	40M	BPSK	216	0	Edge 1	0mm	Battery1	Sensor ON	376500	1882.5	SKU1	21.59	22.50	1.233	0.05	0.717	0.884
	FR1 n25_Ant 2	40M	BPSK	1	1	Edge 4	0mm	Battery1	Sensor OFF	376500	1882.5	SKU1	23.20	24.00	1.202	-0.13	0.576	0.693
	FR1 n25_Ant 2	40M	BPSK	108	54	Edge 4	0mm	Battery1	Sensor OFF	376500	1882.5	SKU1	23.18	24.00	1.208	0.12	0.526	0.635
	FR1 n25_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	376500	1882.5	SKU2	21.67	22.50	1.211	0.05	0.844	1.022
	FR1 n25_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	376500	1882.5	SKU3	21.67	22.50	1.211	-0.02	0.798	0.966
	FR1 n25_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery2	Sensor ON	376500	1882.5	SKU1	21.67	22.50	1.211	-0.04	0.827	1.001
	FR1 n26_Ant 0	20M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	166300	831.5	SKU1	24.02	25.00	1.253	-0.13	0.194	0.243
	FR1 n26_Ant 0	20M	BPSK	50	28	Bottom Face	21mm	Battery1	Sensor OFF	166300	831.5	SKU1	23.98	25.00	1.265	0.08	0.166	0.210
	FR1 n26_Ant 0	20M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	166300	831.5	SKU1	24.02	25.00	1.253	0.18	0.278	0.348
	FR1 n26_Ant 0	20M	BPSK	50	28	Edge 1	28mm	Battery1	Sensor OFF	166300	831.5	SKU1	23.98	25.00	1.265	-0.08	0.239	0.302
	FR1 n26_Ant 0	20M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	166300	831.5	SKU1	23.52	24.00	1.117	0.08	0.910	1.016
	FR1 n26_Ant 0	20M	BPSK	50	28	Bottom Face	0mm	Battery1	Sensor ON	166300	831.5	SKU1	23.48	24.00	1.127	-0.17	0.874	0.985
	FR1 n26_Ant 0	20M	BPSK	100	0	Bottom Face	0mm	Battery1	Sensor ON	166300	831.5	SKU1	23.18	24.00	1.208	0.13	0.821	0.992
22	FR1 n26_Ant 0	20M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	166300	831.5	SKU1	23.52	24.00	1.117	0.02	1.050	1.173
	FR1 n26_Ant 0	20M	BPSK	50	28	Edge 1	0mm	Battery1	Sensor ON	166300	831.5	SKU1	23.48	24.00	1.127	0.1	0.996	1.123
	FR1 n26_Ant 0	20M	BPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	166300	831.5	SKU1	23.18	24.00	1.208	-0.07	0.933	1.127
	FR1 n26_Ant 0	20M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	166300	831.5	SKU1	24.02	25.00	1.253	0	0.105	0.132
	FR1 n26_Ant 0	20M	BPSK	50	28	Edge 2	0mm	Battery1	Sensor OFF	166300	831.5	SKU1	23.98	25.00	1.265	-0.18	0.084	0.106
	FR1 n26_Ant 0	20M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	166300	831.5	SKU2	23.52	24.00	1.117	-0.07	0.915	1.022
	FR1 n26_Ant 0	20M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	166300	831.5	SKU3	23.52	24.00	1.117	-0.07	0.996	1.112
	FR1 n26_Ant 0	20M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	166300	831.5	SKU1	23.52	24.00	1.117	0.16	0.998	1.115



FCC SAR TEST REPORT

Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n30_Ant 0	10M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	462000	2310	SKU1	21.85	23.00	1.303	-0.17	0.183	0.238
	FR1 n30_Ant 0	10M	BPSK	25	14	Bottom Face	21mm	Battery1	Sensor OFF	462000	2310	SKU1	21.78	23.00	1.324	0.18	0.156	0.207
	FR1 n30_Ant 0	10M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	462000	2310	SKU1	21.85	23.00	1.303	0.08	0.264	0.344
	FR1 n30_Ant 0	10M	BPSK	25	14	Edge 1	28mm	Battery1	Sensor OFF	462000	2310	SKU1	21.78	23.00	1.324	0.06	0.222	0.294
	FR1 n30_Ant 0	10M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	462000	2310	SKU1	18.79	19.50	1.178	-0.13	0.473	0.557
	FR1 n30_Ant 0	10M	BPSK	25	14	Bottom Face	0mm	Battery1	Sensor ON	462000	2310	SKU1	18.68	19.50	1.208	0.08	0.419	0.506
	FR1 n30_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	462000	2310	SKU1	18.79	19.50	1.178	-0.01	0.987	1.162
	FR1 n30_Ant 0	10M	BPSK	25	14	Edge 1	0mm	Battery1	Sensor ON	462000	2310	SKU1	18.68	19.50	1.208	0.06	0.922	1.114
	FR1 n30_Ant 0	10M	BPSK	50	0	Edge 1	0mm	Battery1	Sensor ON	462000	2310	SKU1	18.66	19.50	1.213	-0.02	0.869	1.054
	FR1 n30_Ant 0	10M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	462000	2310	SKU1	21.85	23.00	1.303	0.15	0.047	0.061
	FR1 n30_Ant 0	10M	BPSK	25	14	Edge 2	0mm	Battery1	Sensor OFF	462000	2310	SKU1	21.78	23.00	1.324	0.08	0.021	0.028
	FR1 n30_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	462000	2310	SKU2	18.79	19.50	1.178	-0.05	0.906	1.067
	FR1 n30_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	462000	2310	SKU3	18.79	19.50	1.178	-0.18	0.955	1.125
	FR1 n30_Ant 0	10M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	462000	2310	SKU1	18.79	19.50	1.178	-0.04	0.960	1.131
	FR1 n30_Ant 2	10M	BPSK	1	1	Bottom Face	25mm	Battery1	Sensor OFF	462000	2310	SKU1	22.06	23.00	1.242	-0.07	0.143	0.178
	FR1 n30_Ant 2	10M	BPSK	25	14	Bottom Face	26mm	Battery1	Sensor OFF	462000	2310	SKU1	21.96	23.00	1.271	-0.03	0.117	0.149
	FR1 n30_Ant 2	10M	BPSK	1	1	Edge 1	26mm	Battery1	Sensor OFF	462000	2310	SKU1	22.06	23.00	1.242	-0.1	0.193	0.240
	FR1 n30_Ant 2	10M	BPSK	25	14	Edge 1	26mm	Battery1	Sensor OFF	462000	2310	SKU1	21.96	23.00	1.271	-0.05	0.156	0.198
	FR1 n30_Ant 2	10M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	462000	2310	SKU1	18.33	19.00	1.167	-0.16	0.675	0.788
	FR1 n30_Ant 2	10M	BPSK	25	14	Bottom Face	0mm	Battery1	Sensor ON	462000	2310	SKU1	18.20	19.00	1.202	-0.05	0.635	0.763
23	FR1 n30_Ant 2	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	462000	2310	SKU1	18.33	19.00	1.167	-0.02	1.020	1.190
	FR1 n30_Ant 2	10M	BPSK	25	14	Edge 1	0mm	Battery1	Sensor ON	462000	2310	SKU1	18.20	19.00	1.202	-0.04	0.967	1.163
	FR1 n30_Ant 2	10M	BPSK	50	0	Edge 1	0mm	Battery1	Sensor ON	462000	2310	SKU1	18.17	19.00	1.211	-0.18	0.911	1.103
	FR1 n30_Ant 2	10M	BPSK	1	1	Edge 4	0mm	Battery1	Sensor OFF	462000	2310	SKU1	22.06	23.00	1.242	-0.13	0.421	0.523
	FR1 n30_Ant 2	10M	BPSK	25	14	Edge 4	0mm	Battery1	Sensor OFF	462000	2310	SKU1	21.96	23.00	1.271	0.12	0.342	0.435
	FR1 n30_Ant 2	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	462000	2310	SKU2	18.33	19.00	1.167	0.06	0.950	1.108
	FR1 n30_Ant 2	10M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	462000	2310	SKU3	18.33	19.00	1.167	-0.06	0.956	1.115
	FR1 n30_Ant 2	10M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	462000	2310	SKU1	18.33	19.00	1.167	-0.15	0.973	1.135
	FR1 n66_Ant 0	40M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	349000	1745	SKU1	23.88	25.00	1.294	-0.04	0.189	0.245
	FR1 n66_Ant 0	40M	BPSK	108	54	Bottom Face	21mm	Battery1	Sensor OFF	349000	1745	SKU1	23.72	25.00	1.343	-0.07	0.157	0.211
	FR1 n66_Ant 0	40M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	349000	1745	SKU1	23.88	25.00	1.294	-0.07	0.273	0.353
	FR1 n66_Ant 0	40M	BPSK	108	54	Edge 1	28mm	Battery1	Sensor OFF	349000	1745	SKU1	23.72	25.00	1.343	-0.04	0.233	0.313
	FR1 n66_Ant 0	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	349000	1745	SKU1	20.86	21.50	1.159	0.03	0.883	1.023
	FR1 n66_Ant 0	40M	BPSK	108	54	Bottom Face	0mm	Battery1	Sensor ON	349000	1745	SKU1	20.85	21.50	1.161	0.19	0.846	0.983
	FR1 n66_Ant 0	40M	BPSK	216	0	Bottom Face	0mm	Battery1	Sensor ON	349000	1745	SKU1	20.84	21.50	1.164	0.02	0.838	0.976
24	FR1 n66_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	349000	1745	SKU1	20.86	21.50	1.159	0.02	1.020	1.182
	FR1 n66_Ant 0	40M	BPSK	108	54	Edge 1	0mm	Battery1	Sensor ON	349000	1745	SKU1	20.85	21.50	1.161	-0.11	0.978	1.136
	FR1 n66_Ant 0	40M	BPSK	216	0	Edge 1	0mm	Battery1	Sensor ON	349000	1745	SKU1	20.84	21.50	1.164	0.14	0.951	1.107
	FR1 n66_Ant 0	40M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	349000	1745	SKU1	23.88	25.00	1.294	-0.02	0.265	0.343
	FR1 n66_Ant 0	40M	BPSK	108	54	Edge 2	0mm	Battery1	Sensor OFF	349000	1745	SKU1	23.72	25.00	1.343	-0.09	0.202	0.271
	FR1 n66_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	349000	1745	SKU2	20.86	21.50	1.159	0.12	0.910	1.054
	FR1 n66_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	349000	1745	SKU3	20.86	21.50	1.159	0.1	0.917	1.063
	FR1 n66_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	349000	1745	SKU1	20.86	21.50	1.159	0.05	0.969	1.123
	FR1 n66_Ant 2	40M	BPSK	1	1	Bottom Face	25mm	Battery1	Sensor OFF	349000	1745	SKU1	23.15	24.00	1.216	0.18	0.195	0.237
	FR1 n66_Ant 2	40M	BPSK	108	54	Bottom Face	25mm	Battery1	Sensor OFF	349000	1745	SKU1	23.10	24.00	1.230	-0.01	0.152	0.187
	FR1 n66_Ant 2	40M	BPSK	1	1	Edge 1	26mm	Battery1	Sensor OFF	349000	1745	SKU1	23.15	24.00	1.216	-0.05	0.143	0.174
	FR1 n66_Ant 2	40M	BPSK	108	54	Edge 1	26mm	Battery1	Sensor OFF	349000	1745	SKU1	23.10	24.00	1.230	0.05	0.120	0.148
	FR1 n66_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	349000	1745	SKU1	23.15	23.50	1.084	0.08	1.030	1.116
	FR1 n66_Ant 2	40M	BPSK	108	54	Bottom Face	0mm	Battery1	Sensor ON	349000	1745	SKU1	23.10	23.50	1.096	-0.17	0.988	1.083
	FR1 n66_Ant 2	40M	BPSK	216	0	Bottom Face	0mm	Battery1	Sensor ON	349000	1745	SKU1	23.08	23.50	1.102	0.01	0.927	1.021
	FR1 n66_Ant 2	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	349000	1745	SKU1	23.15	23.50	1.084	-0.1	0.866	0.939
	FR1 n66_Ant 2	40M	BPSK	108	54	Edge 1	0mm	Battery1	Sensor ON	349000	1745	SKU1	23.10	23.50	1.096	-0.12	0.789	0.865
	FR1 n66_Ant 2	40M	BPSK	216	0	Edge 1	0mm	Battery1	Sensor ON	349000	1745	SKU1	23.08	23.50	1.102	-0.05	0.747	0.823
	FR1 n66_Ant 2	40M	BPSK	1	1	Edge 4	0mm	Battery1	Sensor OFF	349000	1745	SKU1	23.15	24.00	1.216	0.15	0.390	0.474
	FR1 n66_Ant 2	40M	BPSK	108	54	Edge 4	0mm	Battery1	Sensor OFF	349000	1745	SKU1	23.10	24.00	1.230	0.15	0.307	0.378
	FR1 n66_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	349000	1745	SKU2	23.15	23.50	1.084	-0.18	0.951	1.031
	FR1 n66_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	349000	1745	SKU3	23.15	23.50	1.084	0.12	1.010	1.095
	FR1 n66_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery2	Sensor ON	349000	1745	SKU1	23.15	23.50	1.084	-0.05	0.950	1.030



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	FR1 n70_Ant 2	15M	BPSK	1	1	Bottom Face	25mm	Battery1	Sensor OFF	340500	1702.5	SKU1	23.40	24.00	1.148	-0.13	0.184	0.211
	FR1 n70_Ant 2	15M	BPSK	36	22	Bottom Face	25mm	Battery1	Sensor OFF	340500	1702.5	SKU1	23.17	24.00	1.211	0.11	0.166	0.201
	FR1 n70_Ant 2	15M	BPSK	1	1	Edge 1	26mm	Battery1	Sensor OFF	340500	1702.5	SKU1	23.40	24.00	1.148	0.01	0.126	0.145
	FR1 n70_Ant 2	15M	BPSK	36	22	Edge 1	26mm	Battery1	Sensor OFF	340500	1702.5	SKU1	23.17	24.00	1.211	-0.19	0.101	0.122
	FR1 n70_Ant 2	15M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	340500	1702.5	SKU1	22.38	23.50	1.294	0.13	0.791	1.024
	FR1 n70_Ant 2	15M	BPSK	36	22	Bottom Face	0mm	Battery1	Sensor ON	340500	1702.5	SKU1	22.27	23.50	1.327	0.18	0.756	1.004
29	FR1 n70_Ant 2	15M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	340500	1702.5	SKU1	22.38	23.50	1.294	0.19	0.887	1.148
	FR1 n70_Ant 2	15M	BPSK	36	22	Edge 1	0mm	Battery1	Sensor ON	340500	1702.5	SKU1	22.27	23.50	1.327	0.07	0.849	1.127
	FR1 n70_Ant 2	15M	BPSK	1	1	Edge 4	0mm	Battery1	Sensor ON	340500	1702.5	SKU1	22.38	23.50	1.294	-0.14	0.260	0.336
	FR1 n70_Ant 2	15M	BPSK	36	22	Edge 4	0mm	Battery1	Sensor ON	340500	1702.5	SKU1	22.27	23.50	1.327	0.16	0.232	0.308
	FR1 n70_Ant 2	15M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	340500	1702.5	SKU2	22.38	23.50	1.294	-0.12	0.809	1.047
	FR1 n70_Ant 2	15M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	340500	1702.5	SKU3	22.38	23.50	1.294	0.14	0.844	1.092
	FR1 n70_Ant 2	15M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	340500	1702.5	SKU1	22.38	23.50	1.294	-0.14	0.849	1.099
	FR1 n71_Ant 0	20M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor OFF	136100	680.5	SKU1	24.13	25.00	1.222	-0.04	0.571	0.698
	FR1 n71_Ant 0	20M	BPSK	50	28	Bottom Face	0mm	Battery1	Sensor OFF	136100	680.5	SKU1	24.11	25.00	1.227	0.06	0.526	0.646
25	FR1 n71_Ant 0	20M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor OFF	136100	680.5	SKU1	24.13	25.00	1.222	0.01	0.644	0.787
	FR1 n71_Ant 0	20M	BPSK	50	28	Edge 1	0mm	Battery1	Sensor OFF	136100	680.5	SKU1	24.11	25.00	1.227	-0.18	0.625	0.767
	FR1 n71_Ant 0	20M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	136100	680.5	SKU1	24.13	25.00	1.222	0.02	0.079	0.097
	FR1 n71_Ant 0	20M	BPSK	50	28	Edge 2	0mm	Battery1	Sensor OFF	136100	680.5	SKU1	24.11	25.00	1.227	0.03	0.068	0.083
	FR1 n71_Ant 0	20M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor OFF	136100	680.5	SKU2	24.13	25.00	1.222	0.18	0.566	0.692
	FR1 n71_Ant 0	20M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor OFF	136100	680.5	SKU3	24.13	25.00	1.222	-0.18	0.526	0.643
	FR1 n71_Ant 0	20M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor OFF	136100	680.5	SKU1	24.13	25.00	1.222	-0.02	0.619	0.756
	FR1 n41_Ant 0	100M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	518598	2592.99	SKU1	23.63	25.00	1.371	-0.13	0.193	0.265
	FR1 n41_Ant 0	100M	BPSK	135	69	Bottom Face	21mm	Battery1	Sensor OFF	518598	2592.99	SKU1	23.44	25.00	1.432	-0.04	0.170	0.243
	FR1 n41_Ant 0	100M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	518598	2592.99	SKU1	23.63	25.00	1.371	-0.06	0.267	0.366
	FR1 n41_Ant 0	100M	BPSK	135	69	Edge 1	28mm	Battery1	Sensor OFF	518598	2592.99	SKU1	23.44	25.00	1.432	-0.07	0.241	0.345
	FR1 n41_Ant 0	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	17.11	18.00	1.227	-0.01	0.432	0.530
	FR1 n41_Ant 0	100M	BPSK	135	69	Bottom Face	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	17.02	18.00	1.253	0.08	0.415	0.520
26	FR1 n41_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	17.11	18.00	1.227	-0.03	0.967	1.187
	FR1 n41_Ant 0	100M	BPSK	135	69	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	17.02	18.00	1.253	-0.1	0.924	1.158
	FR1 n41_Ant 0	100M	BPSK	270	0	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	17.02	18.00	1.253	0.13	0.901	1.129
	FR1 n41_Ant 0	100M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	518598	2592.99	SKU1	23.63	25.00	1.371	0.1	0.090	0.123
	FR1 n41_Ant 0	100M	BPSK	135	69	Edge 2	0mm	Battery1	Sensor OFF	518598	2592.99	SKU1	23.44	25.00	1.432	0.07	0.082	0.117
	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	20.12	21.00	1.225	-0.16	0.880	1.078
	FR1 n41_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU2	17.11	18.00	1.227	-0.04	0.950	1.166
	FR1 n41_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU3	17.11	18.00	1.227	-0.03	0.963	1.182
	FR1 n41_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	518598	2592.99	SKU1	17.11	18.00	1.227	0.15	0.955	1.172
	FR1 n41_Ant 2	100M	BPSK	1	1	Bottom Face	25mm	Battery1	Sensor OFF	518598	2592.99	SKU1	22.99	24.00	1.262	0.04	0.207	0.261
	FR1 n41_Ant 2	100M	BPSK	135	69	Bottom Face	25mm	Battery1	Sensor OFF	518598	2592.99	SKU1	22.88	24.00	1.294	-0.09	0.189	0.245
	FR1 n41_Ant 2	100M	BPSK	1	1	Edge 1	26mm	Battery1	Sensor OFF	518598	2592.99	SKU1	22.99	24.00	1.262	0.17	0.343	0.433
	FR1 n41_Ant 2	100M	BPSK	135	69	Edge 1	26mm	Battery1	Sensor OFF	518598	2592.99	SKU1	22.88	24.00	1.294	0.17	0.331	0.428
	FR1 n41_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	14.41	15.00	1.146	0.02	0.412	0.472
	FR1 n41_Ant 2	100M	BPSK	135	69	Bottom Face	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	14.27	15.00	1.183	-0.06	0.393	0.465
	FR1 n41_Ant 2	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	14.41	15.00	1.146	0.01	0.973	1.115
	FR1 n41_Ant 2	100M	BPSK	135	69	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	14.27	15.00	1.183	-0.13	0.915	1.082
	FR1 n41_Ant 2	100M	BPSK	270	0	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	14.30	15.00	1.175	-0.15	0.884	1.039
	FR1 n41_Ant 2	100M	BPSK	1	1	Edge 4	0mm	Battery1	Sensor OFF	518598	2592.99	SKU1	22.99	24.00	1.262	0.07	0.421	0.531
	FR1 n41_Ant 2	100M	BPSK	135	69	Edge 4	0mm	Battery1	Sensor OFF	518598	2592.99	SKU1	22.88	24.00	1.294	-0.08	0.379	0.491
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU1	17.39	18.00	1.151	0.1	0.965	1.111
	FR1 n41_Ant 2	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU2	14.41	15.00	1.146	0.02	0.762	0.873
	FR1 n41_Ant 2	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	518598	2592.99	SKU3	14.41	15.00	1.146	0.14	0.801	0.918
	FR1 n41_Ant 2	100M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	518598	2592.99	SKU1	14.41	15.00	1.146	0.07	0.961	1.101



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Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n48_Ant 0	40M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.95	22.00	1.274	0.07	0.208	0.265
	FR1 n48_Ant 0	40M	BPSK	50	28	Bottom Face	21mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.91	22.00	1.285	0.08	0.191	0.245
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.95	22.00	1.274	-0.05	0.289	0.368
	FR1 n48_Ant 0	40M	BPSK	50	28	Edge 1	28mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.91	22.00	1.285	0.01	0.262	0.337
	FR1 n48_Ant 0	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	641666	3624.99	SKU1	17.35	17.50	1.035	-0.14	0.303	0.314
	FR1 n48_Ant 0	40M	BPSK	50	28	Bottom Face	0mm	Battery1	Sensor ON	641666	3624.99	SKU1	17.32	17.50	1.042	-0.1	0.276	0.288
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	641666	3624.99	SKU1	17.35	17.50	1.035	0.16	0.905	0.937
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	638000	3570	SKU1	17.02	17.50	1.117	0.11	0.840	0.938
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	645332	3679.98	SKU1	17.32	17.50	1.042	-0.02	1.040	1.084
	FR1 n48_Ant 0	40M	BPSK	50	28	Edge 1	0mm	Battery1	Sensor ON	641666	3624.99	SKU1	17.32	17.50	1.042	0.12	0.885	0.922
	FR1 n48_Ant 0	40M	BPSK	50	28	Edge 1	0mm	Battery1	Sensor ON	638000	3570	SKU1	16.83	17.50	1.167	0.19	0.803	0.937
	FR1 n48_Ant 0	40M	BPSK	50	28	Edge 1	0mm	Battery1	Sensor ON	645332	3679.98	SKU1	17.11	17.50	1.094	-0.19	0.940	1.028
	FR1 n48_Ant 0	40M	BPSK	100	0	Edge 1	0mm	Battery1	Sensor ON	641666	3624.99	SKU1	17.20	17.50	1.072	0.13	0.956	1.024
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.95	22.00	1.274	-0.1	0.190	0.242
	FR1 n48_Ant 0	40M	BPSK	50	28	Edge 2	0mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.91	22.00	1.285	0.01	0.174	0.224
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	645332	3679.98	SKU2	17.32	17.50	1.042	-0.19	0.710	0.740
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	641666	3624.99	SKU2	17.35	17.50	1.035	-0.19	0.618	0.640
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	638000	3570	SKU2	17.02	17.50	1.117	0.11	0.573	0.640
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	645332	3679.98	SKU3	17.32	17.50	1.042	-0.13	0.756	0.788
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	641666	3624.99	SKU3	17.35	17.50	1.035	0.07	0.658	0.681
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	638000	3570	SKU3	17.02	17.50	1.117	0.12	0.611	0.682
	FR1 n48_Ant 0	40M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	645332	3679.98	SKU1	17.32	17.50	1.042	0.17	0.987	1.029
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	25mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.72	22.00	1.343	0	0.213	0.286
	FR1 n48_Ant 2	40M	BPSK	50	28	Bottom Face	25mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.41	22.00	1.442	-0.12	0.197	0.284
	FR1 n48_Ant 2	40M	BPSK	1	1	Edge 1	26mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.72	22.00	1.343	-0.13	0.141	0.189
	FR1 n48_Ant 2	40M	BPSK	50	28	Edge 1	26mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.41	22.00	1.442	-0.15	0.123	0.177
27	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	645332	3679.98	SKU1	16.90	17.50	1.148	0.09	1.020	1.171
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	638000	3570	SKU1	16.82	17.50	1.169	0	0.832	0.973
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	641666	3624.99	SKU1	16.66	17.50	1.213	0.02	0.851	1.033
	FR1 n48_Ant 2	40M	BPSK	50	28	Bottom Face	0mm	Battery1	Sensor ON	645332	3679.98	SKU1	16.75	17.50	1.189	0.09	0.981	1.166
	FR1 n48_Ant 2	40M	BPSK	50	28	Bottom Face	0mm	Battery1	Sensor ON	638000	3570	SKU1	16.71	17.50	1.199	-0.09	0.743	0.891
	FR1 n48_Ant 2	40M	BPSK	50	28	Bottom Face	0mm	Battery1	Sensor ON	641666	3624.99	SKU1	16.64	17.50	1.219	-0.13	0.798	0.973
	FR1 n48_Ant 2	40M	BPSK	100	0	Bottom Face	0mm	Battery1	Sensor ON	645332	3679.98	SKU1	16.79	17.50	1.178	0.13	0.956	1.126
	FR1 n48_Ant 2	40M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	645332	3679.98	SKU1	16.90	17.50	1.148	-0.17	0.481	0.552
	FR1 n48_Ant 2	40M	BPSK	50	28	Edge 1	0mm	Battery1	Sensor ON	645332	3679.98	SKU1	16.75	17.50	1.189	-0.19	0.428	0.509
	FR1 n48_Ant 2	40M	BPSK	1	1	Edge 4	0mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.72	22.00	1.343	-0.08	0.345	0.463
	FR1 n48_Ant 2	40M	BPSK	50	28	Edge 4	0mm	Battery1	Sensor OFF	641666	3624.99	SKU1	20.41	22.00	1.442	0.03	0.301	0.434
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	645332	3679.98	SKU2	16.90	17.50	1.148	0.04	0.826	0.948
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	638000	3570	SKU2	16.82	17.50	1.169	-0.18	0.674	0.788
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	641666	3624.99	SKU2	16.66	17.50	1.213	0.05	0.689	0.836
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	645332	3679.98	SKU3	16.90	17.50	1.148	-0.08	0.914	1.049
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	638000	3570	SKU3	16.82	17.50	1.169	0.14	0.746	0.872
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	641666	3624.99	SKU3	16.66	17.50	1.213	-0.16	0.763	0.926
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery2	Sensor ON	645332	3679.98	SKU1	16.90	17.50	1.148	0.19	0.961	1.103



FCC SAR TEST REPORT

Report No. : FA471511

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Sensor ON/OFF	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77_Ant 0	100M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	656000	3840	SKU1	23.99	25.00	1.262	-0.19	0.102	0.129
	FR1 n77_Ant 0	100M	BPSK	135	69	Bottom Face	21mm	Battery1	Sensor OFF	656000	3840	SKU1	23.82	25.00	1.312	0.16	0.089	0.117
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	656000	3840	SKU1	23.99	25.00	1.262	-0.16	0.175	0.221
	FR1 n77_Ant 0	100M	BPSK	135	69	Edge 1	28mm	Battery1	Sensor OFF	656000	3840	SKU1	23.82	25.00	1.312	0.06	0.156	0.205
	FR1 n77_Ant 0	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	656000	3840	SKU1	16.94	17.50	1.138	0.11	0.274	0.312
	FR1 n77_Ant 0	100M	BPSK	135	69	Bottom Face	0mm	Battery1	Sensor ON	656000	3840	SKU1	16.80	17.50	1.175	-0.17	0.233	0.274
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	656000	3840	SKU1	16.94	17.50	1.138	0.01	0.588	0.669
	FR1 n77_Ant 0	100M	BPSK	135	69	Edge 1	0mm	Battery1	Sensor ON	656000	3840	SKU1	16.80	17.50	1.175	-0.15	0.553	0.650
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	656000	3840	SKU1	23.99	25.00	1.262	0.09	0.341	0.430
	FR1 n77_Ant 0	100M	BPSK	135	69	Edge 2	0mm	Battery1	Sensor OFF	656000	3840	SKU1	23.82	25.00	1.312	0.09	0.325	0.426
	FR1 n77_HPUE_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	656000	3840	SKU1	19.97	20.50	1.130	-0.03	0.541	0.611
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	656000	3840	SKU2	16.94	17.50	1.138	-0.1	0.386	0.439
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	656000	3840	SKU3	16.94	17.50	1.138	0.12	0.400	0.455
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	656000	3840	SKU1	16.94	17.50	1.138	0.14	0.565	0.643
	FR1 n77_Ant 0	100M	BPSK	1	1	Bottom Face	21mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.43	25.00	1.435	-0.09	0.090	0.129
	FR1 n77_Ant 0	100M	BPSK	135	69	Bottom Face	21mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.36	25.00	1.459	-0.1	0.085	0.124
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 1	28mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.43	25.00	1.435	0.18	0.145	0.208
	FR1 n77_Ant 0	100M	BPSK	135	69	Edge 1	28mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.36	25.00	1.459	0.13	0.129	0.188
	FR1 n77_Ant 0	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	16.35	17.50	1.303	-0.1	0.317	0.413
	FR1 n77_Ant 0	100M	BPSK	135	69	Bottom Face	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	16.33	17.50	1.309	0.02	0.298	0.390
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	16.35	17.50	1.303	0.01	0.503	0.655
	FR1 n77_Ant 0	100M	BPSK	135	69	Edge 1	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	16.33	17.50	1.309	-0.09	0.485	0.635
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 2	0mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.43	25.00	1.435	-0.19	0.226	0.324
	FR1 n77_Ant 0	100M	BPSK	135	69	Edge 2	0mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.36	25.00	1.459	0.06	0.208	0.303
	FR1 n77_HPUE_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	19.32	20.50	1.312	0.07	0.463	0.608
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	633332	3499.98	SKU2	16.35	17.50	1.303	-0.16	0.405	0.528
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	633332	3499.98	SKU3	16.35	17.50	1.303	0.14	0.462	0.602
	FR1 n77_Ant 0	100M	BPSK	1	1	Edge 1	0mm	Battery2	Sensor ON	633332	3499.98	SKU1	16.35	17.50	1.303	0.01	0.488	0.636
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Face	25mm	Battery1	Sensor OFF	656000	3840	SKU1	23.42	25.00	1.439	0.18	0.136	0.196
	FR1 n77_Ant 2	100M	BPSK	135	69	Bottom Face	25mm	Battery1	Sensor OFF	656000	3840	SKU1	23.35	25.00	1.462	-0.01	0.121	0.177
	FR1 n77_Ant 2	100M	BPSK	1	1	Edge 1	26mm	Battery1	Sensor OFF	656000	3840	SKU1	23.42	25.00	1.439	0.07	0.093	0.134
	FR1 n77_Ant 2	100M	BPSK	135	69	Edge 1	26mm	Battery1	Sensor OFF	656000	3840	SKU1	23.35	25.00	1.462	-0.09	0.082	0.120
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	656000	3840	SKU1	16.43	17.00	1.140	0.16	0.716	0.816
	FR1 n77_Ant 2	100M	BPSK	135	69	Bottom Face	0mm	Battery1	Sensor ON	656000	3840	SKU1	16.21	17.00	1.199	0.19	0.663	0.795
	FR1 n77_Ant 2	100M	BPSK	270	0	Bottom Face	0mm	Battery1	Sensor ON	656000	3840	SKU1	16.23	17.00	1.194	0.11	0.655	0.782
	FR1 n77_Ant 2	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	656000	3840	SKU1	16.43	17.00	1.140	0	0.347	0.396
	FR1 n77_Ant 2	100M	BPSK	135	69	Edge 1	0mm	Battery1	Sensor ON	656000	3840	SKU1	16.21	17.00	1.199	0.19	0.314	0.377
	FR1 n77_Ant 2	100M	BPSK	1	1	Edge 4	0mm	Battery1	Sensor OFF	656000	3840	SKU1	23.42	25.00	1.439	-0.11	0.426	0.613
	FR1 n77_Ant 2	100M	BPSK	135	69	Edge 4	0mm	Battery1	Sensor OFF	656000	3840	SKU1	23.35	25.00	1.462	-0.09	0.398	0.582
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	656000	3840	SKU1	19.46	20.00	1.132	0.16	0.635	0.719
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	656000	3840	SKU2	16.43	17.00	1.140	0.05	0.567	0.647
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	656000	3840	SKU3	16.43	17.00	1.140	-0.01	0.594	0.677
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery2	Sensor ON	656000	3840	SKU1	16.43	17.00	1.140	-0.03	0.602	0.686
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Face	25mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.69	25.00	1.352	0.18	0.160	0.216
	FR1 n77_Ant 2	100M	BPSK	135	69	Bottom Face	25mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.60	25.00	1.380	0.08	0.152	0.210
	FR1 n77_Ant 2	100M	BPSK	1	1	Edge 1	26mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.69	25.00	1.352	-0.07	0.105	0.142
	FR1 n77_Ant 2	100M	BPSK	135	69	Edge 1	26mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.60	25.00	1.380	-0.03	0.095	0.131
28	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	16.39	17.00	1.151	0.09	0.858	0.987
	FR1 n77_Ant 2	100M	BPSK	135	69	Bottom Face	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	16.37	17.00	1.156	0.01	0.823	0.951
	FR1 n77_Ant 2	100M	BPSK	270	0	Bottom Face	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	16.35	17.00	1.161	-0.06	0.807	0.937
	FR1 n77_Ant 2	100M	BPSK	1	1	Edge 1	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	16.39	17.00	1.151	-0.03	0.750	0.863
	FR1 n77_Ant 2	100M	BPSK	135	69	Edge 1	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	16.37	17.00	1.156	-0.01	0.719	0.831
	FR1 n77_Ant 2	100M	BPSK	270	0	Edge 1	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	16.35	17.00	1.161	0.11	0.724	0.841
	FR1 n77_Ant 2	100M	BPSK	1	1	Edge 4	0mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.69	25.00	1.352	-0.11	0.443	0.599
	FR1 n77_Ant 2	100M	BPSK	135	69	Edge 4	0mm	Battery1	Sensor OFF	633332	3499.98	SKU1	23.60	25.00	1.380	0.04	0.426	0.588
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	633332	3499.98	SKU1	19.42	20.00	1.143	0.17	0.778	0.889
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	633332	3499.98	SKU2	16.39	17.00	1.151	0.12	0.637	0.733
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery1	Sensor ON	633332	3499.98	SKU3	16.39	17.00	1.151	0.06	0.759	0.873
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery2	Sensor ON	633332	3499.98	SKU1	16.39	17.00	1.151	0.19	0.804	0.925

15.2 Extremity SAR

<NFC SAR>

Plot No.	Band	Test Position	Gap (mm)	Battery	Freq. (MHz)	Power Drift (dB)	Measured 10g SAR (W/kg)
	NFC	Front Face	0mm	Battery 1	13.56	0.01	0.001
30	NFC	Bottom Face	0mm	Battery 1	13.56	0.1	0.007
	NFC	Bottom Face	0mm	Battery 2	13.56	-0.12	0.005
	NFC	Edge 1	0mm	Battery 1	13.56	0.03	0.001
	NFC	Edge 2	0mm	Battery 1	13.56	0.05	0.001

15.3 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Battery	Sensor ON/OFF	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	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9262	1852.4	SKU1	19.87	20.00	1.030			-0.09	1.100	-	1.133
2nd	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Face	0mm	Battery1	Sensor ON	9262	1852.4	SKU1	19.87	20.00	1.030			0.11	1.040	1.058	1.072
1st	LTE Band 14_Ant 0	10M_QPSK_1_0	Edge 1	0mm	Battery1	Sensor ON	23330	793	SKU1	23.28	23.50	1.052			0.08	1.030	-	1.084
2nd	LTE Band 14_Ant 0	10M_QPSK_1_0	Edge 1	0mm	Battery1	Sensor ON	23330	793	SKU1	23.28	23.50	1.052			0.11	1.000	1.030	1.052
1st	LTE Band 26_Ant 0	15M_QPSK_1_0	Edge 1	0mm	Battery1	Sensor ON	26865	831.5	SKU1	22.80	23.00	1.047			0.05	1.100	-	1.152
2nd	LTE Band 26_Ant 0	15M_QPSK_1_0	Edge 1	0mm	Battery1	Sensor ON	26865	831.5	SKU1	22.80	23.00	1.047			-0.11	1.020	1.078	1.068
1st	LTE Band 30_Ant 0	10M_QPSK_1_0	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU1	18.35	19.00	1.161			0.03	1.020	-	1.185
2nd	LTE Band 30_Ant 0	10M_QPSK_1_0	Edge 1	0mm	Battery1	Sensor ON	27710	2310	SKU1	18.35	19.00	1.161			0.05	0.979	1.042	1.137
1st	LTE Band 66_Ant 0	20M_QPSK_1_0	Edge 1	0mm	Battery1	Sensor ON	132072	1720	SKU1	20.27	20.50	1.054			0.05	1.130	-	1.191
2nd	LTE Band 66_Ant 0	20M_QPSK_1_0	Edge 1	0mm	Battery1	Sensor ON	132072	1720	SKU1	20.27	20.50	1.054			0.03	1.100	1.027	1.160
1st	LTE Band 41_Ant 0	20M_QPSK_1_0	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU1	19.12	19.50	1.091	62.9	1.006	-0.02	1.080	-	1.186
2nd	LTE Band 41_Ant 0	20M_QPSK_1_0	Edge 1	0mm	Battery1	Sensor ON	40620	2593	SKU1	19.12	19.50	1.091	62.9	1.006	0.11	1.020	1.059	1.120
1st	LTE Band 42_Ant 2	20M_QPSK_1_0	Bottom Face	0mm	Battery1	Sensor ON	42590	3500	SKU1	18.90	19.50	1.148	62.9	1.006	0.05	0.939	-	1.085
2nd	LTE Band 42_Ant 2	20M_QPSK_1_0	Bottom Face	0mm	Battery1	Sensor ON	42590	3500	SKU1	18.90	19.50	1.148	62.9	1.006	-0.03	0.924	1.016	1.067
1st	LTE Band 43_Ant 2	20M_QPSK_1_0	Bottom Face	0mm	Battery1	Sensor ON	44690	3710	SKU1	18.72	19.00	1.067	62.9	1.006	0.14	1.070	-	1.148
2nd	LTE Band 43_Ant 2	20M_QPSK_1_0	Bottom Face	0mm	Battery1	Sensor ON	44690	3710	SKU1	18.72	19.00	1.067	62.9	1.006	0.06	1.030	1.039	1.105

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
- 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.

15.4 Power Class 2 and Power Class 3 Linearity

General Note:

This device support Power Class 2 and Power Class 3 operations. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE and FR1 configuration and exposure condition combination, according to the highest time averaged power for Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required. Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

	LTE Band 41_Ant 0	LTE Band 41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.5	21.5
Reported 1g SAR (W/kg)	1.186	1.16
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	56.42	61.16
Linearity SAR(W/kg)	1.29	
% deviation from expected linearity		-9.78%

	FR1 n41_Ant 0	FR1 n41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	18	21
Reported 1g SAR (W/kg)	1.187	1.078
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95
Linearity SAR(W/kg)	1.18	
% deviation from expected linearity		-8.97%

	FR1 n41_Ant 2	FR1 n41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	15	18
Reported 1g SAR (W/kg)	1.115	1.111
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55
Linearity SAR(W/kg)	1.11	
% deviation from expected linearity		-0.12%

	FR1 n77_Ant 0	FR1 n77_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	17.5	20.5
Reported 1g SAR (W/kg)	0.669	0.611
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10
Linearity SAR(W/kg)	0.67	
% deviation from expected linearity		-8.45%

	FR1 n77_Ant 2	FR1 n77_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	17	20
Reported 1g SAR (W/kg)	0.987	0.889
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00
Linearity SAR(W/kg)	0.98	
% deviation from expected linearity		-9.72%

16. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	WWAN Ant 0 + WWAN Ant 2 + WLAN2.4GHz Main + Bluetooth Aux	Yes
2.	WWAN Ant 0 + WWAN Ant 2 + WLAN5/6GHz Main + WLAN5/6GHz Aux + Bluetooth Aux	Yes
3.	WWAN Ant 0 + WWAN Ant 2 + WLAN2.4GHz Main + WLAN2.4GHz Aux	Yes

General Note:

- The Intel BE200NGW WLAN/BT module is integrated into this host, the WLAN2.4GHz/5GHz maximum output power and WLAN evaluation result is referenced from Intel test report, report no.: 230526-08.TR71, 230526-08.TR76 (FCC ID: PD9BE200NG); WLAN 6GHz refers to report no.: 230526-08.TR68 (FCC ID: PD9BE200NG); the SAR result is used to do simultaneous transmission analysis.
- The NFC mainly operate in hand-held extremity condition; therefore, the NFC Sim-Tx analysis was not performed with body exposure condition.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, 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.
 - If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - The SPLSR calculated results please refer to section 16.2.

16.1 Body Exposure Conditions

Exposure Position	1	2	3	4	5	6	7	1+2+3+4 Summed 1g SAR (W/kg)	1+2+3+7 Summed 1g SAR (W/kg)	1+2+5+6+7 Summed 1g SAR (W/kg)	SPLSR	Case No.
	Maximum WWAN Ant 0 1g SAR (W/kg)	Maximum WWAN Ant 2 1g SAR (W/kg)	WLAN2.4GHz Main 1g SAR (W/kg)	WLAN2.4GHz Aux 1g SAR (W/kg)	WLAN5/6GHz Main 1g SAR (W/kg)	WLAN5/6GHz Aux 1g SAR (W/kg)	Bluetooth Aux 1g SAR (W/kg)					
Bottom Face at 0mm	1.148	1.178	0.700	0.520	0.700	0.620	0.510	3.546	3.536	4.156	0.040	Case 1
Edge 1 at 0mm	1.191	1.190	0.040	0.040	0.220	0.220	0.040	2.461	2.461	2.861	0.030	Case 2
Edge 2 at 0mm	0.430		0.060	0.110	0.280	0.270	0.070	0.600	0.560	1.050		
Edge 3 at 0mm								0.000	0.000	0.000		
Edge 4 at 0mm		0.784	0.060	0.070	0.100	0.120	0.060	0.914	0.904	1.064		

16.2 SPLSR Evaluation and Analysis

General Note:

- According to antenna location, the minimum distance between each transmit antenna is using for SPLSR analysis
- $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 1	LTE Band 25_Ant 0	Bottom Face	1.15	0mm	113.7	2.33	0.03	Not required
	LTE Band 66_Ant 2		1.18	0mm				
	LTE Band 25_Ant 0	Bottom Face	1.15	0mm	83.2	1.85	0.03	Not required
	WLAN2.4GHz_Main		0.7	0mm				
	LTE Band 25_Ant 0	Bottom Face	1.15	0mm	160.8	1.67	0.01	Not required
	WLAN2.4GHz_Aux		0.52	0mm				
	LTE Band 66_Ant 2	Bottom Face	1.18	0mm	215.8	1.88	0.01	Not required
	WLAN2.4GHz_Main		0.7	0mm				
	LTE Band 66_Ant 2	Bottom Face	1.18	0mm	58.0	1.70	0.04	Not required
	WLAN2.4GHz_Aux		0.52	0mm				
	WLAN2.4GHz_Main	Bottom Face	0.7	0mm	231.9	1.22	0.01	Not required
	WLAN2.4GHz_Aux		0.52	0mm				
	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 1	LTE Band 25_Ant 0	Bottom Face	1.15	0mm	113.7	2.33	0.03	Not required
	LTE Band 66_Ant 2		1.18	0mm				
	LTE Band 25_Ant 0	Bottom Face	1.15	0mm	83.2	1.85	0.03	Not required
	WLAN2.4GHz_Main		0.7	0mm				
	LTE Band 25_Ant 0	Bottom Face	1.15	0mm	160.8	1.66	0.01	Not required
	Bluetooth Aux		0.51	0mm				
	LTE Band 66_Ant 2	Bottom Face	1.18	0mm	215.8	1.88	0.01	Not required
	WLAN2.4GHz_Main		0.7	0mm				
	LTE Band 66_Ant 2	Bottom Face	1.18	0mm	58.0	1.69	0.04	Not required
	Bluetooth Aux		0.51	0mm				
	WLAN2.4GHz_Main	Bottom Face	0.7	0mm	231.9	1.21	0.01	Not required
	Bluetooth Aux		0.51	0mm				
	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 1	LTE Band 25_Ant 0	Bottom Face	1.15	0mm	113.7	2.33	0.03	Not required
	LTE Band 66_Ant 2		1.18	0mm				
	LTE Band 25_Ant 0	Bottom Face	1.15	0mm	83.2	1.85	0.03	Not required
	WLAN5/6GHz Main		0.7	0mm				
	LTE Band 25_Ant 0	Bottom Face	1.15	0mm	160.8	1.77	0.01	Not required
	WLAN5/6GHz Aux		0.62	0mm				
	LTE Band 25_Ant 0	Bottom Face	1.15	0mm	160.8	1.66	0.01	Not required
	Bluetooth Aux		0.51	0mm				
	LTE Band 66_Ant 2	Bottom Face	1.18	0mm	215.8	1.88	0.01	Not required
	WLAN5/6GHz Main		0.7	0mm				
	LTE Band 66_Ant 2	Bottom Face	1.18	0mm	58.0	1.80	0.04	Not required
	WLAN5/6GHz Aux		0.62	0mm				
	LTE Band 66_Ant 2	Bottom Face	1.18	0mm	58.0	1.69	0.04	Not required
	Bluetooth Aux		0.51	0mm				
	WLAN5/6GHz Main	Bottom Face	0.7	0mm	231.9	1.83	0.01	Not required
	WLAN5/6GHz Aux+Bluetooth Aux		1.13	0mm				

Case 2	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 2	LTE Band 66_Ant 0	Edge 1	1.19	0mm	113.7	2.38	0.03	Not required
	FR1 n30_Ant 2		1.19	0mm				
	LTE Band 66_Ant 0+	Edge 1	1.23	0mm	160.8	1.27	0.01	Not required
	WLAN2.4GHz Main		0.04	0mm				
	FR1 n30_Ant 2+	Edge 1	1.23	0mm	215.8	1.27	0.01	Not required
	WLAN2.4GHz Aux		0.04	0mm				
	WLAN2.4GHz Main	Edge 1	0.04	0mm	231.9	0.08	0.00	Not required
	WLAN2.4GHz Aux		0.04	0mm				
Case 2	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 2	LTE Band 66_Ant 0	Edge 1	1.19	0mm	113.7	2.38	0.03	Not required
	FR1 n30_Ant 2		1.19	0mm				
	LTE Band 66_Ant 0+	Edge 1	1.23	0mm	160.8	1.27	0.01	Not required
	WLAN2.4GHz Main		0.04	0mm				
	Bluetooth Aux	Edge 1	1.23	0mm	215.8	1.27	0.01	Not required
	FR1 n30_Ant 2+		0.04	0mm				
	WLAN2.4GHz Main	Edge 1	0.04	0mm	231.9	0.08	0.00	Not required
	WLAN2.4GHz Main		0.04	0mm				
Case 2	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 2	LTE Band 66_Ant 0	Edge 1	1.19	0mm	113.7	2.38	0.03	Not required
	FR1 n30_Ant 2		1.19	0mm				
	LTE Band 66_Ant 0+	Edge 1	1.41	0mm	160.8	1.63	0.01	Not required
	WLAN5/6GHz Main		0.22	0mm				
	WLAN5/6GHz Aux	Edge 1	1.41	0mm	160.8	1.45	0.01	Not required
	LTE Band 66_Ant 0+		0.04	0mm				
	Bluetooth Aux	Edge 1	1.45	0mm	215.8	1.67	0.01	Not required
	FR1 n30_Ant 2+		0.22	0mm				
	WLAN5/6GHz Main	Edge 1	0.22	0mm	231.9	0.48	0.00	Not required
	WLAN5/6GHz Main		0.26	0mm				
	WLAN5/6GHz Aux+	Edge 1	0.26	0mm	231.9	0.48	0.00	Not required
	Bluetooth Aux		0.26	0mm				

Test Engineer : EN Liu and Bank Liu

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. Therefore, the measurement uncertainty table is not required in this report.

Declaration of Conformity:

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

Comments and Explanations:

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

18. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [6] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [7] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [8] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [9] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [10] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [11] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.