



<FR1 n2_Ant 1_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.06	24.20	23.96	
20	PI/2 BPSK	1	53	23.96	24.11	23.85	24.5
20	PI/2 BPSK	1	104	24.03	24.17	23.90	
20	PI/2 BPSK	50	0	23.64	23.78	23.47	
20	PI/2 BPSK	50	28	24.00	24.17	23.91	24.0
20	PI/2 BPSK	50	56	23.60	23.78	23.51	24.5
20	PI/2 BPSK	100	0	23.60	23.75	23.47	
20	QPSK	1	1	24.06	24.18	23.95	
20	QPSK	1	53	24.00	24.12	23.82	24.5
20	QPSK	1	104	23.98	24.14	23.86	
20	QPSK	50	0	23.16	23.36	23.08	
20	QPSK	50	28	24.03	24.16	23.95	23.5
20	QPSK	50	56	23.08	23.28	22.99	24.5
20	QPSK	100	0	23.13	23.30	23.07	
20	16QAM	1	1	23.07	23.27	22.96	
20	64QAM	1	1	21.70	21.86	21.64	23.5
20	256QAM	1	1	19.68	19.83	19.52	22.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.93	24.12	23.81	
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.96	24.10	23.84	
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.92	24.11	23.81	



<FR1 n2_Ant 1_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	17.18	17.21	17.15	
20	PI/2 BPSK	1	53	17.14	17.16	17.08	17.7
20	PI/2 BPSK	1	104	17.15	17.18	17.12	
20	PI/2 BPSK	50	0	17.05	17.14	17.07	17.7
20	PI/2 BPSK	50	28	17.12	17.18	17.13	17.7
20	PI/2 BPSK	50	56	17.07	17.16	17.06	17.7
20	PI/2 BPSK	100	0	17.16	17.17	17.12	
20	QPSK	1	1	17.11	17.19	17.10	17.7
20	QPSK	1	53	17.15	17.15	17.05	
20	QPSK	1	104	17.14	17.14	17.07	
20	QPSK	50	0	17.10	17.16	17.12	17.7
20	QPSK	50	28	17.10	17.16	17.09	17.7
20	QPSK	50	56	17.14	17.15	17.06	17.7
20	QPSK	100	0	17.14	17.14	17.13	
20	16QAM	1	1	17.15	17.18	17.17	17.7
20	64QAM	1	1	17.08	17.16	17.08	17.7
20	256QAM	1	1	17.06	17.12	17.03	17.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	17.11	17.13	17.14	17.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	17.14	17.07	17.08	17.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	17.05	17.11	17.02	17.7



<FR1 n2_Ant 4_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.09	24.15	24.06	
20	PI/2 BPSK	1	53	23.94	24.07	23.94	24.5
20	PI/2 BPSK	1	104	23.99	24.07	24.06	
20	PI/2 BPSK	50	0	23.51	23.58	23.54	24.0
20	PI/2 BPSK	50	28	23.99	24.03	24.00	24.5
20	PI/2 BPSK	50	56	23.44	23.56	23.39	24.0
20	PI/2 BPSK	100	0	23.44	23.55	23.46	
20	QPSK	1	1	24.08	24.11	24.03	24.5
20	QPSK	1	53	24.02	24.05	24.03	
20	QPSK	1	104	23.95	24.00	23.99	
20	QPSK	50	0	23.10	23.16	23.04	23.5
20	QPSK	50	28	24.07	24.09	24.04	24.5
20	QPSK	50	56	22.93	22.99	22.90	23.5
20	QPSK	100	0	23.09	23.11	23.01	
20	16QAM	1	1	23.38	23.42	23.31	23.5
20	64QAM	1	1	21.63	21.70	21.61	22.0
20	256QAM	1	1	19.62	19.62	19.54	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.03	24.05	24.05	24.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.99	24.14	24.01	24.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.08	24.11	23.99	24.5



<FR1 n2_Ant 4_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	16.53	16.64	16.49	
20	PI/2 BPSK	1	53	16.44	16.49	16.43	17.3
20	PI/2 BPSK	1	104	16.48	16.53	16.46	
20	PI/2 BPSK	50	0	16.49	16.57	16.49	
20	PI/2 BPSK	50	28	16.51	16.62	16.50	17.3
20	PI/2 BPSK	50	56	16.57	16.60	16.54	17.3
20	PI/2 BPSK	100	0	16.45	16.55	16.49	
20	QPSK	1	1	16.55	16.60	16.51	
20	QPSK	1	53	16.47	16.57	16.51	17.3
20	QPSK	1	104	16.45	16.53	16.46	
20	QPSK	50	0	16.48	16.56	16.50	
20	QPSK	50	28	16.52	16.59	16.52	17.3
20	QPSK	50	56	16.43	16.53	16.45	17.3
20	QPSK	100	0	16.39	16.47	16.40	
20	16QAM	1	1	16.48	16.56	16.48	
20	64QAM	1	1	16.48	16.55	16.49	17.3
20	256QAM	1	1	16.33	16.43	16.35	17.3
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	16.40	16.49	16.37	
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	16.36	16.50	16.38	
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	16.33	16.45	16.29	



<FR1 n5_Ant 1_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.56	23.53	
20	PI/2 BPSK	1	53	23.23	23.28	23.25	24.5
20	PI/2 BPSK	1	104	23.29	23.33	23.29	
20	PI/2 BPSK	50	0	22.93	22.98	22.91	
20	PI/2 BPSK	50	28	23.45	23.48	23.47	24.5
20	PI/2 BPSK	50	56	23.04	23.07	23.04	24.0
20	PI/2 BPSK	100	0	23.06	23.08	23.04	
20	QPSK	1	1	23.32	23.46	23.43	24.5
20	QPSK	1	53	23.44	23.51	23.47	
20	QPSK	1	104	23.35	23.39	23.32	
20	QPSK	50	0	22.14	22.20	22.11	23.5
20	QPSK	50	28	23.42	23.46	23.44	24.5
20	QPSK	50	56	22.15	22.26	22.13	23.5
20	QPSK	100	0	22.18	22.22	22.20	
20	16QAM	1	1	22.43	22.46	22.44	23.5
20	64QAM	1	1	20.99	21.03	21.00	22.0
20	256QAM	1	1	19.06	19.10	19.06	20.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.47	23.50	23.43	24.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.45	23.50	23.46	24.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.46	23.49	23.52	24.5



<FR1 n5_Ant 1_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	20.63	20.69	20.64	
20	PI/2 BPSK	1	53	20.59	20.65	20.49	21.1
20	PI/2 BPSK	1	104	20.58	20.64	20.55	
20	PI/2 BPSK	50	0	20.46	20.53	20.41	
20	PI/2 BPSK	50	28	20.51	20.59	20.56	21.1
20	PI/2 BPSK	50	56	20.44	20.52	20.39	21.1
20	PI/2 BPSK	100	0	20.49	20.56	20.49	
20	QPSK	1	1	20.62	20.66	20.59	
20	QPSK	1	53	20.55	20.65	20.46	21.1
20	QPSK	1	104	20.61	20.62	20.59	
20	QPSK	50	0	20.56	20.60	20.46	
20	QPSK	50	28	20.51	20.58	20.50	21.1
20	QPSK	50	56	20.49	20.54	20.41	21.1
20	QPSK	100	0	20.54	20.59	20.48	
20	16QAM	1	1	20.63	20.63	20.54	
20	64QAM	1	1	20.57	20.62	20.49	21.1
20	256QAM	1	1	19.07	19.13	18.98	20.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	20.43	20.65	20.61	
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	20.51	20.55	20.47	
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	20.54	20.59	20.45	



<FR1 n7_Ant 3_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.98	24.02	23.95	
40	PI/2 BPSK	1	108	23.85	23.96	23.94	24.5
40	PI/2 BPSK	1	214	23.84	23.89	23.85	
40	PI/2 BPSK	108	0	23.52	23.55	23.50	24.0
40	PI/2 BPSK	108	54	23.94	23.96	23.93	24.5
40	PI/2 BPSK	108	108	23.55	23.60	23.56	24.0
40	PI/2 BPSK	216	0	23.48	23.52	23.49	
40	QPSK	1	1	23.97	24.00	23.98	24.5
40	QPSK	1	108	23.92	23.95	23.91	
40	QPSK	1	214	23.95	23.93	23.87	
40	QPSK	108	0	23.08	23.10	23.08	23.5
40	QPSK	108	54	23.96	23.99	23.94	24.5
40	QPSK	108	108	23.07	23.12	23.09	23.5
40	QPSK	216	0	22.99	23.02	22.99	
40	16QAM	1	1	23.10	23.15	23.12	23.5
40	64QAM	1	1	21.50	21.55	21.50	22.0
40	256QAM	1	1	19.57	19.62	19.58	20.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.94	23.93	23.87	24.5
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.92	23.90	23.90	24.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.93	23.99	23.93	24.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.90	23.98	23.89	24.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.93	23.94	23.87	24.5
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.91	23.90	23.91	24.5



<FR1 n7_Ant 3_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	15.80	15.84	15.55	
40	PI/2 BPSK	1	108	15.80	15.83	15.80	17.1
40	PI/2 BPSK	1	214	15.82	15.82	15.77	
40	PI/2 BPSK	108	0	15.66	15.75	15.61	17.1
40	PI/2 BPSK	108	54	15.75	15.80	15.74	17.1
40	PI/2 BPSK	108	108	15.72	15.76	15.70	17.1
40	PI/2 BPSK	216	0	15.68	15.78	15.64	
40	QPSK	1	1	15.74	15.80	15.72	17.1
40	QPSK	1	108	15.69	15.76	15.66	
40	QPSK	1	214	15.73	15.77	15.66	
40	QPSK	108	0	15.75	15.78	15.74	17.1
40	QPSK	108	54	15.71	15.75	15.61	17.1
40	QPSK	108	108	15.69	15.71	15.67	17.1
40	QPSK	216	0	15.60	15.69	15.53	
40	16QAM	1	1	15.63	15.73	15.55	17.1
40	64QAM	1	1	15.63	15.72	15.59	17.1
40	256QAM	1	1	15.74	15.78	15.73	17.1
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	15.70	15.82	15.52	17.1
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	15.75	15.82	15.74	17.1
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	15.82	15.73	15.69	17.1
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	15.61	15.67	15.58	17.1
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	15.65	15.79	15.71	17.1
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	15.69	15.75	15.62	17.1



<FR1 n7_Ant 2_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	14.7
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	13.52	13.62	13.57	
40	PI/2 BPSK	1	108	13.49	13.55	13.50	14.2
40	PI/2 BPSK	1	214	13.42	13.51	13.45	
40	PI/2 BPSK	108	0	13.46	13.54	13.46	
40	PI/2 BPSK	108	54	13.52	13.59	13.49	14.2
40	PI/2 BPSK	108	108	13.42	13.52	13.47	
40	PI/2 BPSK	216	0	13.49	13.55	13.46	
40	QPSK	1	1	13.54	13.60	13.51	14.7
40	QPSK	1	108	13.52	13.58	13.48	23.5
40	QPSK	1	214	13.48	13.57	13.52	24.5
40	QPSK	108	0	13.45	13.52	13.43	13.7
40	QPSK	108	54	13.46	13.55	13.50	23.5
40	QPSK	108	108	13.49	13.54	13.47	13.7
40	QPSK	216	0	13.35	13.43	13.38	
40	16QAM	1	1	13.48	13.56	13.47	
40	64QAM	1	1	13.43	13.52	13.46	12.2
40	256QAM	1	1	13.46	13.54	13.48	10.2
Channel				503000	507000	511000	14.7
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	13.35	13.49	13.40	
Channel				502500	507000	511500	14.7
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	13.34	13.51	13.39	
Channel				502000	507000	512000	14.7
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	13.35	13.46	13.45	
Channel				501500	507000	512500	14.7
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	13.37	13.45	13.45	
Channel				501000	507000	513000	14.7
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	13.39	13.42	13.38	
Channel				500500	507000	513500	14.7
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	13.41	13.46	13.44	

<FR1 n12_Ant 1_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.07	24.20	24.11	
15	PI/2 BPSK	1	40	23.85	24.02	23.86	24.5
15	PI/2 BPSK	1	77	23.77	23.95	23.81	
15	PI/2 BPSK	36	0	23.87	23.97	23.81	
15	PI/2 BPSK	36	22	23.94	24.08	23.98	24.0
15	PI/2 BPSK	36	43	23.80	23.97	23.87	24.5
15	PI/2 BPSK	75	0	23.88	23.99	23.87	
15	QPSK	1	1	23.96	24.13	23.98	
15	QPSK	1	40	23.73	23.89	23.72	24.5
15	QPSK	1	77	23.73	23.90	23.81	
15	QPSK	36	0	23.30	23.43	23.29	
15	QPSK	36	22	23.77	23.97	23.88	23.5
15	QPSK	36	43	23.37	23.49	23.39	24.5
15	QPSK	75	0	23.36	23.47	23.35	
15	16QAM	1	1	23.29	23.41	23.27	
15	64QAM	1	1	21.82	21.93	21.81	23.5
15	256QAM	1	1	19.81	19.96	19.83	22.0
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.05	24.08	24.03	
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.06	24.11	24.06	

<FR1 n12_Ant 1_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	21.33	21.41	21.36	
15	PI/2 BPSK	1	40	21.29	21.35	21.21	21.8
15	PI/2 BPSK	1	77	21.28	21.35	21.28	
15	PI/2 BPSK	36	0	21.23	21.29	21.13	
15	PI/2 BPSK	36	22	21.37	21.38	21.29	21.8
15	PI/2 BPSK	36	43	21.23	21.33	21.16	21.8
15	PI/2 BPSK	75	0	21.26	21.35	21.16	
15	QPSK	1	1	21.35	21.36	21.35	
15	QPSK	1	40	21.30	21.30	21.24	21.8
15	QPSK	1	77	21.30	21.32	21.27	
15	QPSK	36	0	21.19	21.27	21.15	
15	QPSK	36	22	21.28	21.29	21.28	21.8
15	QPSK	36	43	21.15	21.22	21.10	21.8
15	QPSK	75	0	21.15	21.23	21.15	
15	16QAM	1	1	21.25	21.30	21.18	
15	64QAM	1	1	21.23	21.32	21.21	21.8
15	256QAM	1	1	19.28	19.29	19.22	20.0
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	21.17	21.39	21.30	
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	21.10	21.26	21.14	

**<FR1 n13_Ant 1_Index 1>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		23.83		
10	PI/2 BPSK	1	26		23.80		24.5
10	PI/2 BPSK	1	50		23.80		
10	PI/2 BPSK	25	0		23.29		24.0
10	PI/2 BPSK	25	14		23.75		24.5
10	PI/2 BPSK	25	27		23.30		24.0
10	PI/2 BPSK	50	0		23.33		
10	QPSK	1	1		23.79		24.5
10	QPSK	1	26		23.75		
10	QPSK	1	50		23.78		
10	QPSK	25	0		22.85		23.5
10	QPSK	25	14		23.77		24.5
10	QPSK	25	27		22.83		23.5
10	QPSK	50	0		22.81		
10	16QAM	1	1		22.98		23.5
10	64QAM	1	1		21.24		22.0
10	256QAM	1	1		19.20		20.0
Channel				155900	156400	156900	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	PI/2 BPSK	1	1	23.71	23.82	23.75	

<FR1 n13_Ant 1_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		21.45		22.2
10	PI/2 BPSK	1	26		21.35		
10	PI/2 BPSK	1	50		21.40		
10	PI/2 BPSK	25	0		21.42		22.2
10	PI/2 BPSK	25	14		21.43		22.2
10	PI/2 BPSK	25	27		21.36		22.2
10	PI/2 BPSK	50	0		21.37		
10	QPSK	1	1		21.39		22.2
10	QPSK	1	26		21.32		
10	QPSK	1	50		21.24		
10	QPSK	25	0		21.25		22.2
10	QPSK	25	14		21.28		22.2
10	QPSK	25	27		21.27		22.2
10	QPSK	50	0		21.23		
10	16QAM	1	1		21.34		22.2
10	64QAM	1	1		21.30		22.0
10	256QAM	1	1		19.30		20.0
Channel				155900	156400	156900	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	PI/2 BPSK	1	1	21.41	21.42	21.36	

<FR1 n14_Ant 1_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.05		
10	PI/2 BPSK	1	26		24.02		24.5
10	PI/2 BPSK	1	50		23.91		
10	PI/2 BPSK	25	0		23.97		
10	PI/2 BPSK	25	14		24.04		24.0
10	PI/2 BPSK	25	27		23.96		24.0
10	PI/2 BPSK	50	0		23.98		
10	QPSK	1	1		24.03		
10	QPSK	1	26		24.02		24.5
10	QPSK	1	50		23.92		
10	QPSK	25	0		23.45		
10	QPSK	25	14		24.03		23.5
10	QPSK	25	27		23.32		24.5
10	QPSK	50	0		23.47		
10	16QAM	1	1		23.43		
10	64QAM	1	1		21.94		23.5
10	256QAM	1	1		19.90		22.0
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.02	24.04	24.03	

<FR1 n14_Ant 1_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		21.57		
10	PI/2 BPSK	1	26		21.52		22.3
10	PI/2 BPSK	1	50		21.48		
10	PI/2 BPSK	25	0		21.49		
10	PI/2 BPSK	25	14		21.53		22.3
10	PI/2 BPSK	25	27		21.51		22.3
10	PI/2 BPSK	50	0		21.49		
10	QPSK	1	1		21.52		
10	QPSK	1	26		21.50		22.3
10	QPSK	1	50		21.45		
10	QPSK	25	0		21.46		
10	QPSK	25	14		21.48		22.3
10	QPSK	25	27		21.43		22.3
10	QPSK	50	0		21.41		
10	16QAM	1	1		21.50		
10	64QAM	1	1		21.46		22.3
10	256QAM	1	1		19.44		22.0
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	21.50	21.54	21.52	



<FR1 n25_Ant 1_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	24.5
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.27	24.29	24.21	
40	PI/2 BPSK	1	108	24.22	24.22	24.16	24.0
40	PI/2 BPSK	1	214	24.13	24.19	24.10	
40	PI/2 BPSK	108	0	23.75	23.78	23.67	
40	PI/2 BPSK	108	54	24.24	24.27	24.16	24.0
40	PI/2 BPSK	108	108	23.71	23.77	23.65	
40	PI/2 BPSK	216	0	23.59	23.68	23.59	
40	QPSK	1	1	24.23	24.23	24.19	24.5
40	QPSK	1	108	24.16	24.22	24.19	
40	QPSK	1	214	24.15	24.15	24.04	
40	QPSK	108	0	23.18	23.25	23.13	23.5
40	QPSK	108	54	24.17	24.20	24.09	24.5
40	QPSK	108	108	23.26	23.29	23.24	23.5
40	QPSK	216	0	23.16	23.25	23.22	
40	16QAM	1	1	23.36	23.45	23.41	
40	64QAM	1	1	21.83	21.88	21.84	22.0
40	256QAM	1	1	19.86	19.87	19.76	20.0
Channel				373000	376500	380000	24.5
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	24.19	24.19	24.18	
Channel				372500	376500	380500	24.5
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	24.19	24.24	24.18	
Channel				372000	376500	381000	24.5
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.19	24.21	24.17	
Channel				371500	376500	381500	24.5
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.21	24.18	24.18	
Channel				371000	376500	382000	24.5
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.16	24.18	24.20	
Channel				370500	376500	382500	24.5
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.26	24.25	24.16	



<FR1 n25_Ant 1_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	17.7
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	17.23	17.25	17.18	
40	PI/2 BPSK	1	108	17.17	17.20	17.17	17.7
40	PI/2 BPSK	1	214	17.12	17.15	17.11	
40	PI/2 BPSK	108	0	17.13	17.16	17.14	
40	PI/2 BPSK	108	54	17.18	17.21	17.19	17.7
40	PI/2 BPSK	108	108	17.17	17.19	17.16	17.7
40	PI/2 BPSK	216	0	17.16	17.19	17.16	
40	QPSK	1	1	17.16	17.20	17.16	
40	QPSK	1	108	17.16	17.20	17.17	17.7
40	QPSK	1	214	17.10	17.14	17.10	
40	QPSK	108	0	17.12	17.15	17.12	
40	QPSK	108	54	17.12	17.16	17.14	17.7
40	QPSK	108	108	17.09	17.11	17.08	17.7
40	QPSK	216	0	17.10	17.13	17.10	
40	16QAM	1	1	17.15	17.19	17.15	
40	64QAM	1	1	17.16	17.18	17.15	17.7
40	256QAM	1	1	17.12	17.15	17.12	17.7
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	17.11	17.11	17.01	
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	17.10	17.09	17.04	
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	17.09	17.09	17.06	
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	17.07	17.12	17.08	
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	17.13	17.08	17.05	
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	17.13	17.15	17.04	



<FR1 n25_Ant 4_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	24.5
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.11	24.20	24.07	
40	PI/2 BPSK	1	108	24.02	24.16	24.04	24.0
40	PI/2 BPSK	1	214	24.00	24.12	24.00	
40	PI/2 BPSK	108	0	23.61	23.66	23.55	
40	PI/2 BPSK	108	54	24.00	24.09	24.05	24.0
40	PI/2 BPSK	108	108	23.49	23.57	23.46	
40	PI/2 BPSK	216	0	23.50	23.62	23.48	
40	QPSK	1	1	24.09	24.17	24.04	24.5
40	QPSK	1	108	24.03	24.13	24.09	
40	QPSK	1	214	23.97	24.07	24.02	
40	QPSK	108	0	23.16	23.22	23.08	23.5
40	QPSK	108	54	24.07	24.12	24.04	24.5
40	QPSK	108	108	22.98	23.08	22.99	23.5
40	QPSK	216	0	23.13	23.17	23.11	
40	16QAM	1	1	23.40	23.48	23.39	
40	64QAM	1	1	21.65	21.71	21.61	22.0
40	256QAM	1	1	19.65	19.69	19.62	20.0
Channel				373000	376500	380000	24.5
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	24.09	24.17	24.02	
Channel				372500	376500	380500	24.5
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	24.08	24.11	24.00	
Channel				372000	376500	381000	24.5
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.09	24.11	24.03	
Channel				371500	376500	381500	24.5
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.00	24.09	23.99	
Channel				371000	376500	382000	24.5
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.04	24.15	24.01	
Channel				370500	376500	382500	24.5
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.07	24.15	23.96	



<FR1 n25_Ant 4_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	17.3
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	16.65	16.72	16.66	
40	PI/2 BPSK	1	108	16.60	16.65	16.59	17.3
40	PI/2 BPSK	1	214	16.54	16.61	16.55	
40	PI/2 BPSK	108	0	16.55	16.63	16.57	
40	PI/2 BPSK	108	54	16.60	16.67	16.62	17.3
40	PI/2 BPSK	108	108	16.56	16.63	16.55	17.3
40	PI/2 BPSK	216	0	16.55	16.65	16.59	
40	QPSK	1	1	16.60	16.67	16.57	
40	QPSK	1	108	16.56	16.66	16.61	17.3
40	QPSK	1	214	16.58	16.64	16.57	
40	QPSK	108	0	16.52	16.58	16.51	
40	QPSK	108	54	16.57	16.62	16.53	17.3
40	QPSK	108	108	16.49	16.57	16.49	17.3
40	QPSK	216	0	16.45	16.55	16.49	
40	16QAM	1	1	16.57	16.62	16.52	
40	64QAM	1	1	16.53	16.63	16.53	17.3
40	256QAM	1	1	16.51	16.59	16.50	17.3
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	16.45	16.59	16.52	
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	16.52	16.52	16.56	
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	16.54	16.52	16.51	
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	16.53	16.59	16.48	
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	16.46	16.60	16.55	
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	16.46	16.60	16.50	



<FR1 n26_Ant 1_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.15	24.43	24.29	
20	PI/2 BPSK	1	53	24.09	24.40	24.25	24.5
20	PI/2 BPSK	1	104	24.06	24.36	24.25	
20	PI/2 BPSK	50	0	23.60	23.87	23.75	
20	PI/2 BPSK	50	28	24.09	24.41	24.21	24.5
20	PI/2 BPSK	50	56	23.55	23.90	23.80	24.0
20	PI/2 BPSK	100	0	23.66	23.95	23.82	
20	QPSK	1	1	24.17	24.42	24.22	24.5
20	QPSK	1	53	24.02	24.37	24.19	
20	QPSK	1	104	24.12	24.39	24.20	
20	QPSK	50	0	23.11	23.42	23.30	23.5
20	QPSK	50	28	24.14	24.41	24.27	24.5
20	QPSK	50	56	23.12	23.42	23.28	23.5
20	QPSK	100	0	23.16	23.49	23.34	
20	16QAM	1	1	23.15	23.44	23.26	23.5
20	64QAM	1	1	21.66	21.99	21.82	22.0
20	256QAM	1	1	19.57	19.82	19.66	20.0
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.07	24.38	24.24	24.5
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.13	24.36	24.21	24.5
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.05	24.32	24.20	24.5



<FR1 n26_Ant 1_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	20.47	20.53	20.41	
20	PI/2 BPSK	1	53	20.44	20.49	20.44	21.1
20	PI/2 BPSK	1	104	20.44	20.50	20.45	
20	PI/2 BPSK	50	0	20.39	20.45	20.40	21.1
20	PI/2 BPSK	50	28	20.43	20.49	20.43	21.1
20	PI/2 BPSK	50	56	20.39	20.44	20.37	21.1
20	PI/2 BPSK	100	0	20.42	20.48	20.41	
20	QPSK	1	1	20.42	20.47	20.42	21.1
20	QPSK	1	53	20.33	20.41	20.34	
20	QPSK	1	104	20.26	20.34	20.29	
20	QPSK	50	0	20.38	20.43	20.36	21.1
20	QPSK	50	28	20.40	20.46	20.39	21.1
20	QPSK	50	56	20.36	20.41	20.35	21.1
20	QPSK	100	0	20.34	20.39	20.33	
20	16QAM	1	1	20.36	20.42	20.37	21.1
20	64QAM	1	1	20.38	20.45	20.37	21.1
20	256QAM	1	1	19.73	19.78	19.72	20.0
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	20.33	20.42	20.30	21.1
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	20.33	20.41	20.21	21.1
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	20.32	20.38	20.24	21.1

<FR1 n30_Ant 3_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.96		
10	PI/2 BPSK	1	26		22.95		23.0
10	PI/2 BPSK	1	50		22.94		
10	PI/2 BPSK	25	0		22.42		
10	PI/2 BPSK	25	14		22.88		22.5
10	PI/2 BPSK	25	27		22.40		23.0
10	PI/2 BPSK	50	0		22.38		
10	QPSK	1	1		22.95		
10	QPSK	1	26		22.93		23.0
10	QPSK	1	50		22.87		
10	QPSK	25	0		21.92		
10	QPSK	25	14		22.95		22.0
10	QPSK	25	27		21.94		23.0
10	QPSK	50	0		21.93		
10	16QAM	1	1		21.93		
10	64QAM	1	1		20.47		22.0
10	256QAM	1	1		18.33		20.5
Channel				461500	462000	462500	18.5
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.91	22.88	22.93	

<FR1 n30_Ant 3_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		17.51		
10	PI/2 BPSK	1	26		17.42		17.9
10	PI/2 BPSK	1	50		17.46		
10	PI/2 BPSK	25	0		17.41		
10	PI/2 BPSK	25	14		17.44		17.9
10	PI/2 BPSK	25	27		17.43		17.9
10	PI/2 BPSK	50	0		17.43		
10	QPSK	1	1		17.47		
10	QPSK	1	26		17.45		17.9
10	QPSK	1	50		17.42		
10	QPSK	25	0		17.46		
10	QPSK	25	14		17.43		17.9
10	QPSK	25	27		17.40		17.9
10	QPSK	50	0		17.42		
10	16QAM	1	1		17.45		
10	64QAM	1	1		17.43		17.9
10	256QAM	1	1		17.44		17.9
Channel				461500	462000	462500	17.9
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	17.40	17.45	17.45	



<FR1 n66_Ant 1_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	24.5
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.01	24.08	24.04	
40	PI/2 BPSK	1	108	23.96	24.00	23.96	24.0
40	PI/2 BPSK	1	214	24.00	24.03	23.93	
40	PI/2 BPSK	108	0	23.45	23.57	23.49	
40	PI/2 BPSK	108	54	23.92	24.01	23.88	24.5
40	PI/2 BPSK	108	108	23.45	23.58	23.45	24.0
40	PI/2 BPSK	216	0	23.43	23.55	23.46	
40	QPSK	1	1	23.93	24.02	23.99	
40	QPSK	1	108	23.89	23.99	23.94	24.5
40	QPSK	1	214	23.95	24.01	23.97	
40	QPSK	108	0	22.93	23.01	22.90	
40	QPSK	108	54	23.93	24.04	23.91	23.5
40	QPSK	108	108	22.96	23.07	23.04	24.5
40	QPSK	216	0	22.95	23.05	22.94	
40	16QAM	1	1	23.38	23.42	23.30	
40	64QAM	1	1	21.48	21.61	21.58	23.5
40	256QAM	1	1	19.38	19.44	19.38	22.0
Channel				345000	349000	353000	20.0
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.96	24.01	23.92	
Channel				344000	349000	354000	24.5
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.93	24.03	23.97	
Channel				343500	349000	354500	24.5
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.99	24.02	23.94	
Channel				343000	349000	355000	24.5
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.93	24.02	24.00	
Channel				342500	349000	355500	24.5
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.93	23.97	24.00	



<FR1 n66_Ant 1_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	16.0
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	15.22	15.28	15.23	
40	PI/2 BPSK	1	108	15.13	15.21	15.11	16.0
40	PI/2 BPSK	1	214	15.16	15.23	15.14	
40	PI/2 BPSK	108	0	15.13	15.20	15.13	
40	PI/2 BPSK	108	54	15.19	15.25	15.15	16.0
40	PI/2 BPSK	108	108	15.14	15.23	15.16	16.0
40	PI/2 BPSK	216	0	15.15	15.22	15.13	
40	QPSK	1	1	15.18	15.26	15.16	
40	QPSK	1	108	15.13	15.20	15.12	16.0
40	QPSK	1	214	15.13	15.18	15.13	
40	QPSK	108	0	15.11	15.20	15.14	
40	QPSK	108	54	15.19	15.24	15.14	16.0
40	QPSK	108	108	15.14	15.21	15.12	16.0
40	QPSK	216	0	15.09	15.19	15.13	
40	16QAM	1	1	15.16	15.21	15.16	
40	64QAM	1	1	15.16	15.23	15.13	16.0
40	256QAM	1	1	15.09	15.16	15.11	16.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	15.04	15.14	15.11	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	15.10	15.17	15.05	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	15.09	15.17	15.13	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	15.12	15.16	15.12	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	15.02	15.14	15.10	



<FR1 n66_Ant 4_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	24.5
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.00	24.10	24.06	
40	PI/2 BPSK	1	108	23.98	24.07	24.05	24.0
40	PI/2 BPSK	1	214	23.98	24.09	24.01	
40	PI/2 BPSK	108	0	23.38	23.50	23.41	
40	PI/2 BPSK	108	54	23.96	24.07	24.00	24.0
40	PI/2 BPSK	108	108	23.56	23.63	23.60	
40	PI/2 BPSK	216	0	23.55	23.63	23.57	
40	QPSK	1	1	23.93	24.08	23.99	24.5
40	QPSK	1	108	23.97	24.06	23.98	
40	QPSK	1	214	23.92	24.05	24.05	
40	QPSK	108	0	23.01	23.11	23.02	23.5
40	QPSK	108	54	23.90	24.03	23.97	24.5
40	QPSK	108	108	22.96	23.08	23.02	23.5
40	QPSK	216	0	23.01	23.11	23.04	
40	16QAM	1	1	23.35	23.43	23.33	
40	64QAM	1	1	21.50	21.63	21.63	22.0
40	256QAM	1	1	19.34	19.50	19.41	20.0
Channel				345000	349000	353000	24.5
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.90	24.07	23.96	
Channel				344000	349000	354000	24.5
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.98	24.01	24.05	
Channel				343500	349000	354500	24.5
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.95	24.07	23.98	
Channel				343000	349000	355000	24.5
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.98	24.01	24.01	
Channel				342500	349000	355500	24.5
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.98	24.07	24.04	



<FR1 n66_Ant 4_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	16.65	16.72	16.63	
40	PI/2 BPSK	1	108	16.52	16.62	16.54	17.1
40	PI/2 BPSK	1	214	16.57	16.66	16.56	
40	PI/2 BPSK	108	0	16.59	16.68	16.63	17.1
40	PI/2 BPSK	108	54	16.62	16.70	16.63	17.1
40	PI/2 BPSK	108	108	16.56	16.63	16.54	17.1
40	PI/2 BPSK	216	0	16.58	16.64	16.57	
40	QPSK	1	1	16.62	16.67	16.61	17.1
40	QPSK	1	108	16.50	16.59	16.52	
40	QPSK	1	214	16.50	16.55	16.46	
40	QPSK	108	0	16.53	16.63	16.54	17.1
40	QPSK	108	54	16.55	16.64	16.57	17.1
40	QPSK	108	108	16.54	16.62	16.56	17.1
40	QPSK	216	0	16.48	16.58	16.52	
40	16QAM	1	1	16.51	16.59	16.54	17.1
40	64QAM	1	1	16.54	16.62	16.57	17.1
40	256QAM	1	1	16.52	16.57	16.51	17.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	16.48	16.62	16.52	17.1
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	16.53	16.58	16.43	17.1
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	16.46	16.54	16.45	17.1
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	16.51	16.57	16.46	17.1
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	16.47	16.58	16.52	17.1



<FR1 n71_Ant 1_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.95	24.10	24.09	
20	PI/2 BPSK	1	53	23.94	24.00	23.92	24.5
20	PI/2 BPSK	1	104	23.81	23.96	23.95	
20	PI/2 BPSK	50	0	23.44	23.53	23.48	
20	PI/2 BPSK	50	28	23.89	24.07	23.97	24.5
20	PI/2 BPSK	50	56	23.39	23.54	23.51	24.0
20	PI/2 BPSK	100	0	23.54	23.60	23.54	
20	QPSK	1	1	23.92	24.05	24.01	
20	QPSK	1	53	23.94	24.02	23.93	24.5
20	QPSK	1	104	23.93	24.03	23.99	
20	QPSK	50	0	22.78	22.89	22.88	
20	QPSK	50	28	23.99	24.04	23.97	24.5
20	QPSK	50	56	22.90	22.96	22.93	23.5
20	QPSK	100	0	22.89	23.01	22.97	
20	16QAM	1	1	23.14	23.27	23.20	
20	64QAM	1	1	21.34	21.48	21.46	22.0
20	256QAM	1	1	19.17	19.29	19.26	20.0
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.92	24.04	24.00	
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.92	24.04	24.01	
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.86	24.08	24.01	



<FR1 n71_Ant 1_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	22.4
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	21.82	21.97	21.93	
20	PI/2 BPSK	1	53	21.90	21.95	21.90	22.4
20	PI/2 BPSK	1	104	21.88	21.94	21.85	
20	PI/2 BPSK	50	0	21.79	21.89	21.80	
20	PI/2 BPSK	50	28	21.88	21.93	21.85	22.4
20	PI/2 BPSK	50	56	21.82	21.88	21.82	22.4
20	PI/2 BPSK	100	0	21.87	21.92	21.86	
20	QPSK	1	1	21.89	21.95	21.88	
20	QPSK	1	53	21.85	21.90	21.82	22.4
20	QPSK	1	104	21.81	21.87	21.79	
20	QPSK	50	0	21.75	21.83	21.73	
20	QPSK	50	28	21.82	21.88	21.83	22.4
20	QPSK	50	56	21.79	21.84	21.78	22.4
20	QPSK	100	0	21.77	21.85	21.75	
20	16QAM	1	1	21.76	21.86	21.78	
20	64QAM	1	1	21.31	21.40	21.32	22.0
20	256QAM	1	1	19.20	19.27	19.21	20.0
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	21.66	21.79	21.74	
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	21.72	21.77	21.74	
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	21.67	21.78	21.75	

<FR1 n38_Ant 3_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	23.78	23.71	23.74	
40	PI/2 BPSK	1	53	23.73	23.70	23.69	24.5
40	PI/2 BPSK	1	104	23.68	23.69	23.68	
40	PI/2 BPSK	50	0	23.06	23.22	23.07	
40	PI/2 BPSK	50	28	23.73	23.67	23.69	24.5
40	PI/2 BPSK	50	56	23.30	23.17	23.11	24.0
40	PI/2 BPSK	100	0	23.23	23.12	23.06	
40	QPSK	1	1	23.72	23.68	23.63	
40	QPSK	1	53	23.64	23.63	23.52	24.5
40	QPSK	1	104	23.68	23.66	23.59	
40	QPSK	50	0	23.67	23.61	23.56	
40	QPSK	50	28	23.65	23.57	23.53	24.5
40	QPSK	50	56	23.65	23.52	23.54	
40	QPSK	100	0	22.71	22.57	22.56	
40	16QAM	1	1	22.71	22.56	22.58	23.5
40	64QAM	1	1	21.22	21.07	21.12	22.0
40	256QAM	1	1	19.24	19.08	19.08	20.0
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	23.69	23.66	23.65	
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	23.74	23.69	23.65	

<FR1 n38_Ant 3_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	15.84	15.73	15.77	16.8
40	PI/2 BPSK	1	53	15.72	15.53	15.57	
40	PI/2 BPSK	1	104	15.77	15.57	15.64	
40	PI/2 BPSK	50	0	15.78	15.58	15.68	16.8
40	PI/2 BPSK	50	28	15.80	15.65	15.68	16.8
40	PI/2 BPSK	50	56	15.76	15.64	15.59	16.8
40	PI/2 BPSK	100	0	15.75	15.64	15.55	
40	QPSK	1	1	15.82	15.68	15.68	
40	QPSK	1	53	15.80	15.62	15.65	16.8
40	QPSK	1	104	15.79	15.67	15.66	
40	QPSK	50	0	15.73	15.61	15.58	
40	QPSK	50	28	15.76	15.58	15.62	16.8
40	QPSK	50	56	15.71	15.52	15.61	
40	QPSK	100	0	15.71	15.60	15.52	
40	16QAM	1	1	15.78	15.66	15.63	16.8
40	64QAM	1	1	15.69	15.57	15.55	16.8
40	256QAM	1	1	15.73	15.59	15.56	16.8
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	15.69	15.62	15.67	
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	15.71	15.60	15.59	



<FR1 n38_Ant 2_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	14.11	14.05	14.02	
40	PI/2 BPSK	1	53	14.03	13.92	13.92	14.5
40	PI/2 BPSK	1	104	14.06	13.93	13.92	
40	PI/2 BPSK	50	0	14.05	13.95	13.95	
40	PI/2 BPSK	50	28	14.09	13.94	13.98	14.5
40	PI/2 BPSK	50	56	14.06	13.92	13.92	14.5
40	PI/2 BPSK	100	0	14.08	13.98	13.97	
40	QPSK	1	1	14.10	14.00	13.98	
40	QPSK	1	53	14.07	13.94	13.92	14.5
40	QPSK	1	104	14.06	13.96	13.93	
40	QPSK	50	0	14.03	13.93	13.89	
40	QPSK	50	28	14.08	13.96	13.95	14.5
40	QPSK	50	56	14.02	13.88	13.87	
40	QPSK	100	0	14.03	13.91	13.92	
40	16QAM	1	1	14.05	13.92	13.93	14.5
40	64QAM	1	1	14.06	13.92	13.96	14.5
40	256QAM	1	1	14.00	13.88	13.90	14.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	13.91	13.95	13.85	
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	13.96	13.89	13.86	



<FR1 n41_Ant 3_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.18	23.20	23.16	
100	PI/2 BPSK	1	137	22.98	23.08	22.98	24.5
100	PI/2 BPSK	1	271	23.07	23.12	23.00	
100	PI/2 BPSK	135	0	23.08	23.11	23.05	
100	PI/2 BPSK	135	69	23.16	23.18	23.15	24.5
100	PI/2 BPSK	135	138	23.11	23.15	23.03	24.5
100	PI/2 BPSK	270	0	23.06	23.10	23.08	
100	QPSK	1	1	23.09	23.12	23.10	
100	QPSK	1	137	23.01	23.11	23.02	24.5
100	QPSK	1	271	23.04	23.09	23.07	
100	QPSK	135	0	22.91	23.04	23.05	
100	QPSK	135	69	22.97	23.11	22.97	24.5
100	QPSK	135	138	22.93	23.05	22.94	
100	QPSK	270	0	22.91	23.03	23.01	
100	16QAM	1	1	22.99	23.09	22.99	24.5
100	64QAM	1	1	22.94	23.07	22.96	24.5
100	256QAM	1	1	21.63	21.74	21.63	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.13	23.08	23.11	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.12	23.16	23.08	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.16	23.18	23.12	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.11	23.14	23.11	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.17	23.08	23.14	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.15	23.13	23.12	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.17	23.08	23.05	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.07	23.15	23.11	



<FR1 n41_Ant 3_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	16.8
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	15.68	15.81	15.76	
100	PI/2 BPSK	1	137	15.62	15.72	15.52	16.8
100	PI/2 BPSK	1	271	15.64	15.76	15.59	
100	PI/2 BPSK	135	0	15.49	15.69	15.59	
100	PI/2 BPSK	135	69	15.61	15.77	15.64	16.8
100	PI/2 BPSK	135	138	15.59	15.74	15.58	16.8
100	PI/2 BPSK	270	0	15.62	15.75	15.61	
100	QPSK	1	1	15.59	15.78	15.59	
100	QPSK	1	137	15.61	15.72	15.59	16.8
100	QPSK	1	271	15.51	15.69	15.56	
100	QPSK	135	0	15.57	15.69	15.49	
100	QPSK	135	69	15.61	15.73	15.58	16.8
100	QPSK	135	138	15.59	15.71	15.56	
100	QPSK	270	0	15.56	15.72	15.61	
100	16QAM	1	1	15.58	15.73	15.61	16.8
100	64QAM	1	1	15.49	15.69	15.57	16.8
100	256QAM	1	1	15.58	15.69	15.58	16.8
Channel				508200	518598	528996	16.8
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	15.57	15.63	15.57	
Channel				507204	518598	529998	16.8
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	15.51	15.65	15.62	
Channel				506202	518598	531000	16.8
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	15.56	15.69	15.58	
Channel				505200	518598	531996	16.8
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	15.52	15.62	15.66	
Channel				504204	518598	532998	16.8
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	15.55	15.61	15.62	
Channel				503202	518598	534000	16.8
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	15.51	15.71	15.61	
Channel				502200	518598	534996	16.8
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	15.51	15.68	15.61	
Channel				501204	518598	535998	16.8
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	15.54	15.61	15.56	



<FR1 n41_Ant 2_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	14.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	13.98	14.06	14.02	
100	PI/2 BPSK	1	137	13.90	14.02	13.90	14.5
100	PI/2 BPSK	1	271	13.89	14.01	13.89	
100	PI/2 BPSK	135	0	13.88	14.00	13.86	
100	PI/2 BPSK	135	69	13.87	14.02	13.90	14.5
100	PI/2 BPSK	135	138	13.79	13.93	13.76	14.5
100	PI/2 BPSK	270	0	13.81	13.98	13.86	
100	QPSK	1	1	13.88	14.05	13.92	
100	QPSK	1	137	13.86	14.01	13.88	14.5
100	QPSK	1	271	13.81	13.94	13.78	
100	QPSK	135	0	13.78	13.91	13.78	
100	QPSK	135	69	13.86	13.98	13.85	14.5
100	QPSK	135	138	13.77	13.89	13.77	
100	QPSK	270	0	13.83	13.99	13.86	
100	16QAM	1	1	13.86	14.00	13.83	14.5
100	64QAM	1	1	13.79	13.96	13.81	14.5
100	256QAM	1	1	13.77	13.89	13.72	14.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	13.81	13.96	13.83	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	13.83	13.90	13.87	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	13.85	13.89	13.89	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	13.80	13.95	13.85	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	13.82	13.93	13.89	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	13.85	13.91	13.87	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	13.83	13.91	13.90	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	13.82	13.92	13.91	



<FR1 n41_Ant 5_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	13.8
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	12.64	12.69	12.58	
100	PI/2 BPSK	1	137	12.47	12.65	12.47	13.8
100	PI/2 BPSK	1	271	12.45	12.64	12.51	
100	PI/2 BPSK	135	0	12.46	12.60	12.38	
100	PI/2 BPSK	135	69	12.52	12.66	12.53	13.8
100	PI/2 BPSK	135	138	12.40	12.63	12.40	13.8
100	PI/2 BPSK	270	0	12.41	12.59	12.44	
100	QPSK	1	1	12.52	12.66	12.51	
100	QPSK	1	137	12.34	12.56	12.37	13.8
100	QPSK	1	271	12.36	12.60	12.45	
100	QPSK	135	0	12.46	12.60	12.38	
100	QPSK	135	69	12.47	12.63	12.46	13.8
100	QPSK	135	138	12.35	12.59	12.37	
100	QPSK	270	0	12.36	12.54	12.41	
100	16QAM	1	1	12.38	12.56	12.38	13.8
100	64QAM	1	1	12.38	12.57	12.34	13.8
100	256QAM	1	1	12.40	12.60	12.46	13.8
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	12.48	12.47	12.35	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	12.50	12.52	12.36	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	12.51	12.49	12.41	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	12.44	12.52	12.42	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	12.47	12.46	12.44	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	12.48	12.57	12.42	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	12.40	12.52	12.34	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	12.40	12.46	12.34	



<FR1 n41_Ant 6_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	20.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.67	19.81	19.64	
100	PI/2 BPSK	1	137	19.52	19.75	19.57	20.5
100	PI/2 BPSK	1	271	19.49	19.72	19.55	
100	PI/2 BPSK	135	0	19.42	19.65	19.46	
100	PI/2 BPSK	135	69	19.49	19.68	19.46	20.5
100	PI/2 BPSK	135	138	19.49	19.63	19.44	20.5
100	PI/2 BPSK	270	0	19.41	19.62	19.46	
100	QPSK	1	1	19.61	19.74	19.61	
100	QPSK	1	137	19.47	19.70	19.48	20.5
100	QPSK	1	271	19.56	19.72	19.59	
100	QPSK	135	0	19.45	19.62	19.40	
100	QPSK	135	69	19.43	19.65	19.50	20.5
100	QPSK	135	138	19.39	19.60	19.37	
100	QPSK	270	0	19.42	19.63	19.48	
100	16QAM	1	1	19.50	19.72	19.50	20.5
100	64QAM	1	1	19.61	19.74	19.61	20.5
100	256QAM	1	1	18.11	18.30	18.15	19.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.48	19.63	19.48	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.47	19.62	19.50	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.51	19.63	19.54	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.53	19.62	19.51	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.54	19.65	19.46	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.57	19.67	19.45	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.56	19.70	19.46	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.51	19.67	19.48	



<FR1 n41_Ant 6_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	6.69	6.76	6.62	
100	PI/2 BPSK	1	137	6.61	6.72	6.52	7.6
100	PI/2 BPSK	1	271	6.60	6.71	6.49	
100	PI/2 BPSK	135	0	6.59	6.70	6.48	
100	PI/2 BPSK	135	69	6.60	6.72	6.57	7.6
100	PI/2 BPSK	135	138	6.53	6.63	6.48	7.6
100	PI/2 BPSK	270	0	6.56	6.68	6.53	
100	QPSK	1	1	6.65	6.75	6.54	7.6
100	QPSK	1	137	6.57	6.71	6.52	
100	QPSK	1	271	6.55	6.64	6.41	
100	QPSK	135	0	6.46	6.61	6.45	7.6
100	QPSK	135	69	6.55	6.68	6.52	
100	QPSK	135	138	6.46	6.59	6.40	
100	QPSK	270	0	6.57	6.69	6.54	7.6
100	16QAM	1	1	6.59	6.70	6.47	7.6
100	64QAM	1	1	6.49	6.66	6.52	7.6
100	256QAM	1	1	6.46	6.59	6.39	7.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	6.52	6.64	6.38	7.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	6.48	6.59	6.44	7.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	6.45	6.52	6.41	7.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	6.54	6.61	6.46	7.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	6.48	6.57	6.50	7.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	6.48	6.64	6.41	7.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	6.57	6.61	6.50	7.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	6.52	6.62	6.38	7.6



<FR1 n41_Ant 6_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	15.3
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	14.39	14.46	14.32	
100	PI/2 BPSK	1	137	14.26	14.42	14.20	15.3
100	PI/2 BPSK	1	271	14.25	14.41	14.21	
100	PI/2 BPSK	135	0	14.33	14.40	14.19	
100	PI/2 BPSK	135	69	14.25	14.42	14.26	15.3
100	PI/2 BPSK	135	138	14.19	14.33	14.16	15.3
100	PI/2 BPSK	270	0	14.28	14.38	14.21	
100	QPSK	1	1	14.31	14.45	14.31	
100	QPSK	1	137	14.24	14.41	14.24	15.3
100	QPSK	1	271	14.23	14.34	14.19	
100	QPSK	135	0	14.20	14.31	14.13	
100	QPSK	135	69	14.24	14.38	14.14	15.3
100	QPSK	135	138	14.13	14.29	14.08	
100	QPSK	270	0	14.25	14.39	14.23	
100	16QAM	1	1	14.29	14.40	14.23	15.3
100	64QAM	1	1	14.26	14.36	14.14	15.3
100	256QAM	1	1	14.15	14.29	14.11	15.3
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	14.33	14.36	14.23	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	14.25	14.35	14.12	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	14.25	14.35	14.20	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	14.24	14.37	14.12	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	14.19	14.39	14.23	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	14.16	14.33	14.12	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	14.24	14.32	14.20	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	14.19	14.39	14.23	



<FR1 n41_HPUE_Ant 3_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	27.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.20	26.38	26.23	
100	PI/2 BPSK	1	137	26.16	26.20	26.15	26.5
100	PI/2 BPSK	1	271	26.18	26.22	26.17	
100	PI/2 BPSK	135	0	25.60	25.68	25.61	
100	PI/2 BPSK	135	69	26.14	26.22	26.02	27.0
100	PI/2 BPSK	135	138	25.59	25.70	25.69	26.5
100	PI/2 BPSK	270	0	25.64	25.75	25.63	
100	QPSK	1	1	26.14	26.26	26.12	
100	QPSK	1	137	26.01	26.18	26.01	27.0
100	QPSK	1	271	26.08	26.12	26.08	
100	QPSK	135	0	25.86	25.97	25.96	
100	QPSK	135	69	25.91	26.06	25.91	26.0
100	QPSK	135	138	25.79	25.84	25.81	
100	QPSK	270	0	25.07	25.22	25.05	
100	16QAM	1	1	25.12	25.29	25.14	26.0
100	64QAM	1	1	23.61	23.74	23.61	24.5
100	256QAM	1	1	21.58	21.72	21.54	22.5
Channel				508200	518598	528996	27.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.11	26.37	26.13	
Channel				507204	518598	529998	27.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.10	26.37	26.15	
Channel				506202	518598	531000	27.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.19	26.29	26.12	
Channel				505200	518598	531996	27.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.13	26.35	26.12	
Channel				504204	518598	532998	27.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.09	26.30	26.18	
Channel				503202	518598	534000	27.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.13	26.31	26.18	
Channel				502200	518598	534996	27.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.10	26.33	26.11	
Channel				501204	518598	535998	27.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.14	26.31	26.13	



<FR1 n41_HPUE_Ant 3_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	16.8
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	15.68	15.81	15.76	
100	PI/2 BPSK	1	137	15.57	15.72	15.59	16.8
100	PI/2 BPSK	1	271	15.59	15.76	15.65	
100	PI/2 BPSK	135	0	15.53	15.69	15.52	
100	PI/2 BPSK	135	69	15.59	15.77	15.58	16.8
100	PI/2 BPSK	135	138	15.62	15.74	15.62	16.8
100	PI/2 BPSK	270	0	15.59	15.75	15.65	
100	QPSK	1	1	15.59	15.78	15.63	
100	QPSK	1	137	15.60	15.72	15.59	16.8
100	QPSK	1	271	15.58	15.69	15.52	
100	QPSK	135	0	15.59	15.69	15.55	
100	QPSK	135	69	15.53	15.73	15.63	16.8
100	QPSK	135	138	15.58	15.71	15.61	
100	QPSK	270	0	15.52	15.72	15.58	
100	16QAM	1	1	15.53	15.73	15.53	16.8
100	64QAM	1	1	15.51	15.69	15.58	16.8
100	256QAM	1	1	15.59	15.69	15.55	16.8
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	15.49	15.66	15.66	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	15.56	15.70	15.66	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	15.52	15.70	15.59	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	15.49	15.64	15.66	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	15.55	15.61	15.61	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	15.55	15.61	15.66	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	15.56	15.65	15.65	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	15.58	15.63	15.66	



<FR1 n41_HPUE_Ant 2_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	14.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	13.98	14.06	14.02	
100	PI/2 BPSK	1	137	13.90	14.02	13.90	14.5
100	PI/2 BPSK	1	271	13.89	14.01	13.89	
100	PI/2 BPSK	135	0	13.88	14.00	13.86	
100	PI/2 BPSK	135	69	13.87	14.02	13.90	14.5
100	PI/2 BPSK	135	138	13.79	13.93	13.76	14.5
100	PI/2 BPSK	270	0	13.81	13.98	13.86	
100	QPSK	1	1	13.88	14.05	13.92	
100	QPSK	1	137	13.86	14.01	13.88	14.5
100	QPSK	1	271	13.81	13.94	13.78	
100	QPSK	135	0	13.78	13.91	13.78	
100	QPSK	135	69	13.86	13.98	13.85	14.5
100	QPSK	135	138	13.77	13.89	13.77	
100	QPSK	270	0	13.83	13.99	13.86	
100	16QAM	1	1	13.86	14.00	13.83	14.5
100	64QAM	1	1	13.79	13.96	13.81	14.5
100	256QAM	1	1	13.77	13.89	13.72	14.5
Channel				508200	518598	528996	14.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	13.81	13.96	13.83	
Channel				507204	518598	529998	14.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	13.83	13.90	13.87	
Channel				506202	518598	531000	14.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	13.85	13.89	13.89	
Channel				505200	518598	531996	14.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	13.80	13.95	13.85	
Channel				504204	518598	532998	14.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	13.82	13.93	13.89	
Channel				503202	518598	534000	14.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	13.85	13.91	13.87	
Channel				502200	518598	534996	14.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	13.83	13.91	13.90	
Channel				501204	518598	535998	14.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	13.82	13.92	13.91	



<FR1 n41_HPUE_Ant 5_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	13.8
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	12.64	12.69	12.58	
100	PI/2 BPSK	1	137	12.47	12.65	12.47	13.8
100	PI/2 BPSK	1	271	12.45	12.64	12.51	
100	PI/2 BPSK	135	0	12.46	12.60	12.38	
100	PI/2 BPSK	135	69	12.52	12.66	12.53	13.8
100	PI/2 BPSK	135	138	12.40	12.63	12.40	13.8
100	PI/2 BPSK	270	0	12.41	12.59	12.44	
100	QPSK	1	1	12.52	12.66	12.51	
100	QPSK	1	137	12.34	12.56	12.37	13.8
100	QPSK	1	271	12.36	12.60	12.45	
100	QPSK	135	0	12.46	12.60	12.38	
100	QPSK	135	69	12.47	12.63	12.46	13.8
100	QPSK	135	138	12.35	12.59	12.37	
100	QPSK	270	0	12.36	12.54	12.41	
100	16QAM	1	1	12.38	12.56	12.38	13.8
100	64QAM	1	1	12.38	12.57	12.34	13.8
100	256QAM	1	1	12.40	12.60	12.46	13.8
Channel				508200	518598	528996	13.8
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	12.48	12.47	12.35	
Channel				507204	518598	529998	13.8
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	12.50	12.52	12.36	
Channel				506202	518598	531000	13.8
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	12.51	12.49	12.41	
Channel				505200	518598	531996	13.8
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	12.44	12.52	12.42	
Channel				504204	518598	532998	13.8
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	12.47	12.46	12.44	
Channel				503202	518598	534000	13.8
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	12.48	12.57	12.42	
Channel				502200	518598	534996	13.8
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	12.40	12.52	12.34	
Channel				501204	518598	535998	13.8
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	12.40	12.46	12.34	



<FR1 n41_HPUE_Ant 6_Index 1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	23.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.74	22.87	22.74	
100	PI/2 BPSK	1	137	22.57	22.63	22.57	23.0
100	PI/2 BPSK	1	271	22.51	22.55	22.50	
100	PI/2 BPSK	135	0	22.21	22.25	22.20	
100	PI/2 BPSK	135	69	22.67	22.81	22.69	23.0
100	PI/2 BPSK	135	138	22.28	22.26	22.19	
100	PI/2 BPSK	270	0	22.19	22.23	22.20	
100	QPSK	1	1	22.69	22.83	22.67	23.0
100	QPSK	1	137	22.56	22.75	22.57	
100	QPSK	1	271	22.53	22.72	22.53	
100	QPSK	135	0	22.00	22.21	21.98	22.5
100	QPSK	135	69	22.45	22.62	22.41	
100	QPSK	135	138	21.54	21.74	21.55	
100	QPSK	270	0	21.64	21.77	21.62	21.0
100	16QAM	1	1	21.67	21.85	21.63	
100	64QAM	1	1	20.10	20.33	20.10	
100	256QAM	1	1	18.15	18.30	18.17	19.0
Channel				508200	518598	528996	23.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.56	22.70	22.60	
Channel				507204	518598	529998	23.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.56	22.74	22.64	
Channel				506202	518598	531000	23.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.62	22.68	22.59	
Channel				505200	518598	531996	23.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.58	22.73	22.63	
Channel				504204	518598	532998	23.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.57	22.70	22.60	
Channel				503202	518598	534000	23.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.61	22.75	22.62	
Channel				502200	518598	534996	23.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.59	22.72	22.61	
Channel				501204	518598	535998	23.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.61	22.67	22.59	



<FR1 n41_HPUE_Ant 6_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	6.69	6.76	6.62	
100	PI/2 BPSK	1	137	6.61	6.72	6.52	7.6
100	PI/2 BPSK	1	271	6.60	6.71	6.49	
100	PI/2 BPSK	135	0	6.59	6.70	6.48	
100	PI/2 BPSK	135	69	6.60	6.72	6.57	7.6
100	PI/2 BPSK	135	138	6.53	6.63	6.48	7.6
100	PI/2 BPSK	270	0	6.56	6.68	6.53	
100	QPSK	1	1	6.65	6.75	6.54	
100	QPSK	1	137	6.57	6.71	6.52	7.6
100	QPSK	1	271	6.55	6.64	6.41	
100	QPSK	135	0	6.46	6.61	6.45	
100	QPSK	135	69	6.55	6.68	6.52	7.6
100	QPSK	135	138	6.46	6.59	6.40	
100	QPSK	270	0	6.57	6.69	6.54	
100	16QAM	1	1	6.59	6.70	6.47	7.6
100	64QAM	1	1	6.49	6.66	6.52	7.6
100	256QAM	1	1	6.46	6.59	6.39	7.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	6.52	6.64	6.38	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	6.48	6.59	6.44	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	6.45	6.52	6.41	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	6.54	6.61	6.46	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	6.48	6.57	6.50	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	6.48	6.64	6.41	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	6.57	6.61	6.50	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	6.52	6.62	6.38	



<FR1 n41_HPUE_Ant 6_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	15.3
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	14.39	14.46	14.32	
100	PI/2 BPSK	1	137	14.26	14.42	14.20	15.3
100	PI/2 BPSK	1	271	14.25	14.41	14.21	
100	PI/2 BPSK	135	0	14.33	14.40	14.19	
100	PI/2 BPSK	135	69	14.25	14.42	14.26	15.3
100	PI/2 BPSK	135	138	14.19	14.33	14.16	15.3
100	PI/2 BPSK	270	0	14.28	14.38	14.21	
100	QPSK	1	1	14.31	14.45	14.31	
100	QPSK	1	137	14.24	14.41	14.24	15.3
100	QPSK	1	271	14.23	14.34	14.19	
100	QPSK	135	0	14.20	14.31	14.13	
100	QPSK	135	69	14.24	14.38	14.14	15.3
100	QPSK	135	138	14.13	14.29	14.08	
100	QPSK	270	0	14.25	14.39	14.23	
100	16QAM	1	1	14.29	14.40	14.23	15.3
100	64QAM	1	1	14.26	14.36	14.14	15.3
100	256QAM	1	1	14.15	14.29	14.11	15.3
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	14.33	14.36	14.23	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	14.25	14.35	14.12	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	14.25	14.35	14.20	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	14.24	14.37	14.12	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	14.19	14.39	14.23	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	14.16	14.33	14.12	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	14.24	14.32	14.20	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	14.19	14.39	14.23	

**<FR1 n48 Ant 3 Index 1>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)		
Sub carrier spacing		Channel		637000	641667	646332	637000	641667	646332
30k	Hz	Frequency (MHz)		3555	3625	3694.98	3555	3625	3694.98
10	PI/2 BPSK	1	1	21.00	21.20	20.66	22.00	22.00	22.00
10	PI/2 BPSK	1	22	21.02	21.21	20.67	22.00	22.00	22.00
10	PI/2 BPSK	12	6	21.06	21.24	20.70	22.00	22.00	22.00
10	PI/2 BPSK	1	0	20.54	20.75	20.12	22.00	22.00	22.00
10	PI/2 BPSK	1	23	20.41	20.67	20.15	22.00	22.00	22.00
10	PI/2 BPSK	24	0	20.57	20.73	20.15	22.00	22.00	22.00
10	QPSK	1	1	20.95	21.18	20.59	22.00	22.00	22.00
10	QPSK	1	22	21.06	21.13	20.52	22.00	22.00	22.00
10	QPSK	12	6	21.02	21.22	20.69	22.00	22.00	22.00
10	QPSK	1	0	19.97	20.19	19.57	21.00	22.00	21.00
10	QPSK	1	23	19.95	20.13	19.55	21.00	22.00	21.00
10	QPSK	24	0	20.04	20.23	19.71	22.00	22.00	21.00
10	16QAM	1	1	20.16	20.35	19.80	22.00	22.00	21.00
10	64QAM	1	1	18.62	18.85	18.26	20.00	20.00	20.00
10	256QAM	1	1	16.22	16.41	15.86	18.00	18.00	17.00
Sub carrier spacing		Channel		637334	641667	646000	637334	641667	646000
30k	Hz	Frequency (MHz)		3560.01	3625	3690	3560.01	3625	3690
20	PI/2 BPSK	1	1	17.08	17.15	16.68	19.00	19.00	18.00
20	PI/2 BPSK	1	49	17.02	16.98	16.54	19.00	18.00	18.00
20	PI/2 BPSK	25	12	17.15	17.12	16.61	19.00	19.00	18.00
20	PI/2 BPSK	1	0	20.52	20.43	20.27	22.00	22.00	22.00
20	PI/2 BPSK	1	50	20.58	20.50	20.04	22.00	22.00	22.00
20	PI/2 BPSK	50	0	17.05	17.08	16.58	19.00	19.00	18.00
20	QPSK	1	1	17.10	16.92	16.68	19.00	18.00	18.00
20	QPSK	1	49	17.02	16.97	16.55	19.00	18.00	18.00
20	QPSK	25	12	17.12	17.01	16.56	19.00	19.00	18.00
20	QPSK	1	0	20.13	19.95	19.71	22.00	21.00	21.00
20	QPSK	1	50	20.03	19.98	19.58	22.00	21.00	21.00
20	QPSK	50	0	17.08	17.10	16.60	19.00	19.00	18.00
20	16QAM	1	1	16.27	17.12	16.72	18.00	19.00	18.00
20	64QAM	1	1	16.24	17.05	16.83	18.00	19.00	18.00
20	256QAM	1	1	16.29	16.14	15.91	18.00	18.00	17.00
Sub carrier spacing		Channel		638000	641667	645333	638000	641667	645333
30k	Hz	Frequency (MHz)		3570	3625	3680	3570	3625	3680
40	PI/2 BPSK	1	1	10.85	17.26	10.41	12.00	19.00	12.00
40	PI/2 BPSK	1	104	10.84	17.12	10.23	12.00	19.00	12.00
40	PI/2 BPSK	50	25	10.72	17.27	10.32	12.00	19.00	12.00
40	PI/2 BPSK	1	0	20.78	20.76	20.56	22.00	22.00	22.00
40	PI/2 BPSK	1	105	20.75	20.58	20.36	22.00	22.00	22.00
40	PI/2 BPSK	100	0	10.72	17.24	10.31	12.00	19.00	12.00
40	QPSK	1	1	10.78	17.19	10.42	12.00	19.00	12.00
40	QPSK	1	104	10.85	17.04	10.22	12.00	19.00	12.00
40	QPSK	50	25	10.73	17.21	10.33	12.00	19.00	12.00
40	QPSK	1	0	20.34	20.26	20.01	22.00	22.00	22.00
40	QPSK	1	105	20.33	20.15	19.84	22.00	22.00	21.00
40	QPSK	100	0	10.74	17.28	10.32	12.00	19.00	12.00
40	16QAM	1	1	10.33	17.37	10.07	12.00	19.00	12.00
40	64QAM	1	1	10.33	17.28	9.95	12.00	19.00	11.00
40	256QAM	1	1	10.00	16.43	9.59	12.00	18.00	11.00

**<FR1 n48 Ant 3 Index 2&3>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)		
Sub carrier spacing		Channel		637000	641667	646332	637000	641667	646332
30k	Hz	Frequency (MHz)		3555	3625	3694.98	3555	3625	3694.98
10	PI/2 BPSK	1	1	9.60	9.66	9.59	10.30	10.30	10.30
10	PI/2 BPSK	1	22	9.51	9.70	9.40	10.30	10.30	10.30
10	PI/2 BPSK	12	6	9.60	9.64	9.42	10.30	10.30	10.30
10	PI/2 BPSK	1	0	9.63	9.47	9.50	10.30	10.30	10.30
10	PI/2 BPSK	1	23	9.45	9.66	9.54	10.30	10.30	10.30
10	PI/2 BPSK	24	0	9.35	9.72	9.46	10.30	10.30	10.30
10	QPSK	1	1	9.55	9.48	9.35	10.30	10.30	10.30
10	QPSK	1	22	9.56	9.62	9.44	10.30	10.30	10.30
10	QPSK	12	6	9.41	9.62	9.43	10.30	10.30	10.30
10	QPSK	1	0	9.42	9.47	9.44	10.30	10.30	10.30
10	QPSK	1	23	9.40	9.55	9.32	10.30	10.30	10.30
10	QPSK	24	0	9.31	9.50	9.46	10.30	10.30	10.30
10	16QAM	1	1	9.39	9.62	9.43	10.30	10.30	10.30
10	64QAM	1	1	9.38	9.55	9.43	10.30	10.30	10.30
10	256QAM	1	1	9.38	9.44	9.38	10.30	10.30	10.30
Sub carrier spacing		Channel		637334	641667	646000	637334	641667	646000
30k	Hz	Frequency (MHz)		3560.01	3625	3690	3560.01	3625	3690
20	PI/2 BPSK	1	1	9.51	9.74	9.54	10.30	10.30	10.30
20	PI/2 BPSK	1	49	9.52	9.67	9.51	10.30	10.30	10.30
20	PI/2 BPSK	25	12	9.47	9.68	9.55	10.30	10.30	10.30
20	PI/2 BPSK	1	0	9.60	9.53	9.37	10.30	10.30	10.30
20	PI/2 BPSK	1	50	9.52	9.69	9.55	10.30	10.30	10.30
20	PI/2 BPSK	50	0	9.33	9.65	9.42	10.30	10.30	10.30
20	QPSK	1	1	9.51	9.53	9.44	10.30	10.30	10.30
20	QPSK	1	49	9.50	9.54	9.48	10.30	10.30	10.30
20	QPSK	25	12	9.47	9.57	9.39	10.30	10.30	10.30
20	QPSK	1	0	9.30	9.61	9.37	10.30	10.30	10.30
20	QPSK	1	50	9.39	9.62	9.37	10.30	10.30	10.30
20	QPSK	50	0	9.44	9.52	9.41	10.30	10.30	10.30
20	16QAM	1	1	9.45	9.55	9.43	10.30	10.30	10.30
20	64QAM	1	1	9.51	9.54	9.43	10.30	10.30	10.30
20	256QAM	1	1	9.24	9.64	9.50	10.30	10.30	10.30
Sub carrier spacing		Channel		638000	641667	645333	638000	641667	645333
30k	Hz	Frequency (MHz)		3570	3625	3680	3570	3625	3680
40	PI/2 BPSK	1	1	9.70	9.77	9.72	10.30	10.30	10.30
40	PI/2 BPSK	1	104	9.62	9.72	9.57	10.30	10.30	10.30
40	PI/2 BPSK	50	25	9.61	9.73	9.60	10.30	10.30	10.30
40	PI/2 BPSK	1	0	9.68	9.62	9.54	10.30	10.30	10.30
40	PI/2 BPSK	1	105	9.62	9.76	9.68	10.30	10.30	10.30
40	PI/2 BPSK	100	0	9.52	9.72	9.62	10.30	10.30	10.30
40	QPSK	1	1	9.56	9.68	9.51	10.30	10.30	10.30
40	QPSK	1	104	9.59	9.70	9.59	10.30	10.30	10.30
40	QPSK	50	25	9.52	9.69	9.56	10.30	10.30	10.30
40	QPSK	1	0	9.46	9.65	9.53	10.30	10.30	10.30
40	QPSK	1	105	9.46	9.62	9.44	10.30	10.30	10.30
40	QPSK	100	0	9.50	9.70	9.58	10.30	10.30	10.30
40	16QAM	1	1	9.55	9.68	9.55	10.30	10.30	10.30
40	64QAM	1	1	9.51	9.67	9.53	10.30	10.30	10.30
40	256QAM	1	1	9.44	9.64	9.53	10.30	10.30	10.30



<FR1 n77_Ant 3_Index 1>

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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.27	20.35	20.01	
100	PI/2 BPSK	1	137	20.19	20.21	20.18	21.7
100	PI/2 BPSK	1	271	20.09	20.12	20.09	
100	PI/2 BPSK	135	0	20.24	20.26	20.24	
100	PI/2 BPSK	135	69	20.24	20.27	20.24	21.7
100	PI/2 BPSK	135	138	20.06	20.09	20.07	21.7
100	PI/2 BPSK	270	0	20.22	20.24	20.22	
100	QPSK	1	1	20.28	20.30	20.28	
100	QPSK	1	137	20.17	20.19	20.17	21.7
100	QPSK	1	271	20.19	20.21	20.18	
100	QPSK	135	0	20.27	20.30	20.27	
100	QPSK	135	69	20.14	20.17	20.15	21.7
100	QPSK	135	138	20.10	20.13	20.10	
100	QPSK	270	0	20.16	20.19	20.17	
100	16QAM	1	1	20.32	20.34	20.31	21.7
100	64QAM	1	1	20.30	20.33	20.30	21.7
100	256QAM	1	1	20.25	20.28	20.25	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.25	20.34	19.99	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.25	20.33	19.99	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.25	20.34	20.00	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.26	20.33	19.99	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.26	20.33	20.00	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.25	20.34	19.99	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.25	20.33	19.99	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.26	20.34	19.99	



<FR1 n77_Ant 3_Index 2/3>

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	656000	662000	10.6
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	9.33	9.35	9.27	
100	PI/2 BPSK	1	137	9.14	9.28	9.16	10.6
100	PI/2 BPSK	1	271	9.20	9.30	9.19	
100	PI/2 BPSK	135	0	9.05	9.23	9.03	
100	PI/2 BPSK	135	69	9.17	9.33	9.20	10.6
100	PI/2 BPSK	135	138	9.07	9.26	9.06	10.6
100	PI/2 BPSK	270	0	9.14	9.27	9.09	
100	QPSK	1	1	9.15	9.29	9.17	
100	QPSK	1	137	9.11	9.23	9.09	10.6
100	QPSK	1	271	9.02	9.18	9.05	
100	QPSK	135	0	9.08	9.23	9.13	
100	QPSK	135	69	9.16	9.26	9.11	10.6
100	QPSK	135	138	9.12	9.22	9.08	
100	QPSK	270	0	9.07	9.24	9.13	
100	16QAM	1	1	9.14	9.26	9.15	10.6
100	64QAM	1	1	9.02	9.19	9.01	10.6
100	256QAM	1	1	9.02	9.18	9.02	10.6
Channel				649668	656000	662332	10.6
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	9.22	9.23	9.16	
Channel				649334	656000	662666	10.6
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	9.16	9.18	9.12	
Channel				649000	656000	663000	10.6
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	9.13	9.21	9.13	
Channel				648668	656000	663332	10.6
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	9.18	9.21	9.10	
Channel				648334	656000	663666	10.6
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	9.21	9.22	9.11	
Channel				648000	656000	664000	10.6
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	9.21	9.24	9.11	
Channel				647668	656000	664332	10.6
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	9.22	9.25	9.17	
Channel				647334	656000	664666	10.6
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	9.16	9.15	9.11	



<FR1 n77_Ant 2_Index 1>

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	656000	662000	10.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	9.46	9.57	9.52	
100	PI/2 BPSK	1	137	9.33	9.48	9.35	10.5
100	PI/2 BPSK	1	271	9.37	9.52	9.37	
100	PI/2 BPSK	135	0	9.36	9.53	9.35	
100	PI/2 BPSK	135	69	9.36	9.54	9.38	10.5
100	PI/2 BPSK	135	138	9.27	9.46	9.30	10.5
100	PI/2 BPSK	270	0	9.28	9.47	9.32	
100	QPSK	1	1	9.33	9.49	9.36	
100	QPSK	1	137	9.23	9.43	9.25	10.5
100	QPSK	1	271	9.38	9.48	9.35	
100	QPSK	135	0	9.15	9.33	9.13	
100	QPSK	135	69	9.28	9.46	9.36	10.5
100	QPSK	135	138	9.29	9.42	9.31	
100	QPSK	270	0	9.26	9.44	9.28	
100	16QAM	1	1	9.17	9.36	9.21	10.5
100	64QAM	1	1	9.40	9.51	9.31	10.5
100	256QAM	1	1	9.31	9.48	9.31	10.5
Channel				649668	656000	662332	10.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	9.27	9.38	9.34	
Channel				649334	656000	662666	10.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	9.29	9.43	9.41	
Channel				649000	656000	663000	10.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	9.36	9.39	9.32	
Channel				648668	656000	663332	10.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	9.34	9.47	9.39	
Channel				648334	656000	663666	10.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	9.27	9.38	9.40	
Channel				648000	656000	664000	10.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	9.26	9.40	9.41	
Channel				647668	656000	664332	10.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	9.33	9.46	9.35	
Channel				647334	656000	664666	10.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	9.31	9.42	9.34	



<FR1 n77_Ant 5_Index 1>

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	656000	662000	12.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	11.23	11.27	11.21	
100	PI/2 BPSK	1	137	11.06	11.22	10.97	12.0
100	PI/2 BPSK	1	271	11.04	11.20	11.02	
100	PI/2 BPSK	135	0	11.04	11.23	11.07	
100	PI/2 BPSK	135	69	11.06	11.25	11.08	12.0
100	PI/2 BPSK	135	138	10.96	11.16	10.91	12.0
100	PI/2 BPSK	270	0	11.05	11.20	10.96	
100	QPSK	1	1	11.02	11.26	11.09	
100	QPSK	1	137	11.04	11.23	11.06	12.0
100	QPSK	1	271	10.98	11.19	11.00	
100	QPSK	135	0	10.97	11.19	11.02	
100	QPSK	135	69	11.00	11.23	11.11	12.0
100	QPSK	135	138	11.02	11.22	11.09	
100	QPSK	270	0	10.93	11.15	10.93	
100	16QAM	1	1	10.95	11.17	10.97	12.0
100	64QAM	1	1	11.07	11.19	10.99	12.0
100	256QAM	1	1	10.95	11.13	10.99	12.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	11.02	11.06	11.01	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	11.03	11.04	11.06	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	11.09	11.13	11.08	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	11.09	11.07	10.96	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	11.02	11.10	10.95	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	11.03	11.13	11.00	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	10.97	11.01	11.00	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	11.01	11.07	11.06	



<FR1 n77_Ant 6_Index 1>

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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.99	21.08	20.91	
100	PI/2 BPSK	1	137	20.97	21.04	20.85	22.0
100	PI/2 BPSK	1	271	20.97	21.03	20.90	
100	PI/2 BPSK	135	0	20.87	20.96	20.77	
100	PI/2 BPSK	135	69	20.87	20.99	20.80	22.0
100	PI/2 BPSK	135	138	20.78	20.94	20.82	22.0
100	PI/2 BPSK	270	0	20.89	20.96	20.77	
100	QPSK	1	1	20.98	21.07	20.94	
100	QPSK	1	137	20.89	21.04	20.87	22.0
100	QPSK	1	271	20.90	21.01	20.83	
100	QPSK	135	0	20.84	20.99	20.86	
100	QPSK	135	69	20.93	21.00	20.80	22.0
100	QPSK	135	138	20.83	20.97	20.76	
100	QPSK	270	0	20.86	20.96	20.80	
100	16QAM	1	1	20.89	21.03	20.81	22.0
100	64QAM	1	1	20.84	21.00	20.88	22.0
100	256QAM	1	1	19.30	19.43	19.24	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.88	20.88	20.77	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.87	20.97	20.73	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.86	20.96	20.79	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.80	20.96	20.76	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.84	20.92	20.76	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.81	20.93	20.75	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.89	20.90	20.73	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.86	20.96	20.79	



<FR1 n77_Ant 6_Index 2>

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	656000	662000	5.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	4.63	4.77	4.71	
100	PI/2 BPSK	1	137	4.53	4.72	4.62	5.0
100	PI/2 BPSK	1	271	4.50	4.70	4.56	
100	PI/2 BPSK	135	0	4.50	4.73	4.61	
100	PI/2 BPSK	135	69	4.59	4.75	4.61	5.0
100	PI/2 BPSK	135	138	4.50	4.66	4.56	5.0
100	PI/2 BPSK	270	0	4.47	4.70	4.62	
100	QPSK	1	1	4.60	4.76	4.66	
100	QPSK	1	137	4.54	4.73	4.66	5.0
100	QPSK	1	271	4.54	4.69	4.62	
100	QPSK	135	0	4.46	4.69	4.60	
100	QPSK	135	69	4.52	4.73	4.57	5.0
100	QPSK	135	138	4.56	4.72	4.62	
100	QPSK	270	0	4.51	4.65	4.53	
100	16QAM	1	1	4.50	4.67	4.56	5.0
100	64QAM	1	1	4.52	4.69	4.60	5.0
100	256QAM	1	1	4.41	4.63	4.52	5.0
Channel				649668	656000	662332	5.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	4.53	4.66	4.55	
Channel				649334	656000	662666	5.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	4.50	4.65	4.49	
Channel				649000	656000	663000	5.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	4.41	4.59	4.54	
Channel				648668	656000	663332	5.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	4.47	4.62	4.59	
Channel				648334	656000	663666	5.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	4.41	4.64	4.54	
Channel				648000	656000	664000	5.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	4.53	4.61	4.61	
Channel				647668	656000	664332	5.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	4.51	4.65	4.58	
Channel				647334	656000	664666	5.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	4.53	4.57	4.53	



<FR1 n77_Ant 6_Index 3>

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	656000	662000	12.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	12.33	12.47	12.41	
100	PI/2 BPSK	1	137	12.28	12.42	12.26	12.7
100	PI/2 BPSK	1	271	12.20	12.40	12.30	
100	PI/2 BPSK	135	0	12.22	12.43	12.31	
100	PI/2 BPSK	135	69	12.23	12.45	12.30	12.7
100	PI/2 BPSK	135	138	12.14	12.36	12.24	12.7
100	PI/2 BPSK	270	0	12.26	12.40	12.34	
100	QPSK	1	1	12.27	12.46	12.32	
100	QPSK	1	137	12.22	12.43	12.37	12.7
100	QPSK	1	271	12.17	12.39	12.23	
100	QPSK	135	0	12.15	12.39	12.30	
100	QPSK	135	69	12.28	12.43	12.35	12.7
100	QPSK	135	138	12.18	12.42	12.33	
100	QPSK	270	0	12.15	12.35	12.23	
100	16QAM	1	1	12.14	12.37	12.28	12.7
100	64QAM	1	1	12.15	12.39	12.33	12.7
100	256QAM	1	1	12.19	12.33	12.25	12.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	12.23	12.42	12.41	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	12.18	12.36	12.24	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	12.10	12.34	12.23	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	12.19	12.42	12.26	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	12.13	12.38	12.24	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	12.09	12.31	12.15	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	12.18	12.37	12.24	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	12.18	12.40	12.31	



<FR1 n77_HPUE_Ant 3_Index 1>

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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.27	20.35	20.01	
100	PI/2 BPSK	1	137	20.19	20.21	20.18	21.7
100	PI/2 BPSK	1	271	20.09	20.12	20.09	
100	PI/2 BPSK	135	0	20.24	20.26	20.24	
100	PI/2 BPSK	135	69	20.24	20.27	20.24	21.7
100	PI/2 BPSK	135	138	20.06	20.09	20.07	21.7
100	PI/2 BPSK	270	0	20.22	20.24	20.22	
100	QPSK	1	1	20.28	20.30	20.28	
100	QPSK	1	137	20.17	20.19	20.17	21.7
100	QPSK	1	271	20.19	20.21	20.18	
100	QPSK	135	0	20.27	20.30	20.27	
100	QPSK	135	69	20.14	20.17	20.15	21.7
100	QPSK	135	138	20.10	20.13	20.10	
100	QPSK	270	0	20.16	20.19	20.17	
100	16QAM	1	1	20.32	20.34	20.31	21.7
100	64QAM	1	1	20.30	20.33	20.30	21.7
100	256QAM	1	1	20.25	20.28	20.25	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.25	20.34	19.99	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.25	20.33	19.99	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.25	20.34	20.00	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.26	20.33	19.99	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.26	20.33	20.00	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.25	20.34	19.99	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.25	20.33	19.99	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.26	20.34	19.99	



<FR1 n77_HPUE_Ant 3_Index 2/3>

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	656000	662000	10.6
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	9.33	9.35	9.27	
100	PI/2 BPSK	1	137	9.14	9.28	9.16	10.6
100	PI/2 BPSK	1	271	9.20	9.30	9.19	
100	PI/2 BPSK	135	0	9.05	9.23	9.03	
100	PI/2 BPSK	135	69	9.17	9.33	9.20	10.6
100	PI/2 BPSK	135	138	9.07	9.26	9.06	10.6
100	PI/2 BPSK	270	0	9.14	9.27	9.09	
100	QPSK	1	1	9.15	9.29	9.17	
100	QPSK	1	137	9.11	9.23	9.09	10.6
100	QPSK	1	271	9.02	9.18	9.05	
100	QPSK	135	0	9.08	9.23	9.13	
100	QPSK	135	69	9.16	9.26	9.11	10.6
100	QPSK	135	138	9.12	9.22	9.08	
100	QPSK	270	0	9.07	9.24	9.13	
100	16QAM	1	1	9.14	9.26	9.15	10.6
100	64QAM	1	1	9.02	9.19	9.01	10.6
100	256QAM	1	1	9.02	9.18	9.02	10.6
Channel				649668	656000	662332	10.6
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	9.22	9.23	9.16	
Channel				649334	656000	662666	10.6
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	9.16	9.18	9.12	
Channel				649000	656000	663000	10.6
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	9.13	9.21	9.13	
Channel				648668	656000	663332	10.6
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	9.18	9.21	9.10	
Channel				648334	656000	663666	10.6
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	9.21	9.22	9.11	
Channel				648000	656000	664000	10.6
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	9.21	9.24	9.11	
Channel				647668	656000	664332	10.6
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	9.22	9.25	9.17	
Channel				647334	656000	664666	10.6
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	9.16	9.15	9.11	



<FR1 n77_HPUE_Ant 2_Index 1>

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	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	9.46	9.57	9.52	
100	PI/2 BPSK	1	137	9.33	9.48	9.35	10.5
100	PI/2 BPSK	1	271	9.37	9.52	9.37	
100	PI/2 BPSK	135	0	9.36	9.53	9.35	
100	PI/2 BPSK	135	69	9.36	9.54	9.38	10.5
100	PI/2 BPSK	135	138	9.27	9.46	9.30	10.5
100	PI/2 BPSK	270	0	9.28	9.47	9.32	
100	QPSK	1	1	9.33	9.49	9.36	
100	QPSK	1	137	9.23	9.43	9.25	10.5
100	QPSK	1	271	9.38	9.48	9.35	
100	QPSK	135	0	9.15	9.33	9.13	
100	QPSK	135	69	9.28	9.46	9.36	10.5
100	QPSK	135	138	9.29	9.42	9.31	
100	QPSK	270	0	9.26	9.44	9.28	
100	16QAM	1	1	9.17	9.36	9.21	10.5
100	64QAM	1	1	9.40	9.51	9.31	10.5
100	256QAM	1	1	9.31	9.48	9.31	10.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	9.27	9.38	9.34	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	9.29	9.43	9.41	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	9.36	9.39	9.32	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	9.34	9.47	9.39	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	9.27	9.38	9.40	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	9.26	9.40	9.41	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	9.33	9.46	9.35	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	9.31	9.42	9.34	



<FR1 n77_HPUE_Ant 5_Index 1>

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	656000	662000	12.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	11.23	11.27	11.21	
100	PI/2 BPSK	1	137	11.06	11.22	10.97	12.0
100	PI/2 BPSK	1	271	11.04	11.20	11.02	
100	PI/2 BPSK	135	0	11.04	11.23	11.07	
100	PI/2 BPSK	135	69	11.06	11.25	11.08	12.0
100	PI/2 BPSK	135	138	10.96	11.16	10.91	12.0
100	PI/2 BPSK	270	0	11.05	11.20	10.96	
100	QPSK	1	1	11.02	11.26	11.09	
100	QPSK	1	137	11.04	11.23	11.06	12.0
100	QPSK	1	271	10.98	11.19	11.00	
100	QPSK	135	0	10.97	11.19	11.02	
100	QPSK	135	69	11.00	11.23	11.11	12.0
100	QPSK	135	138	11.02	11.22	11.09	
100	QPSK	270	0	10.93	11.15	10.93	
100	16QAM	1	1	10.95	11.17	10.97	12.0
100	64QAM	1	1	11.07	11.19	10.99	12.0
100	256QAM	1	1	10.95	11.13	10.99	12.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	11.02	11.06	11.01	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	11.03	11.04	11.06	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	11.09	11.13	11.08	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	11.09	11.07	10.96	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	11.02	11.10	10.95	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	11.03	11.13	11.00	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	10.97	11.01	11.00	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	11.01	11.07	11.06	



<FR1 n77_HPUE_Ant 6_Index 1>

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	656000	662000	25.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.94	24.00	23.88	
100	PI/2 BPSK	1	137	23.74	23.90	23.72	24.5
100	PI/2 BPSK	1	271	23.52	23.58	23.46	
100	PI/2 BPSK	135	0	23.48	23.54	23.35	
100	PI/2 BPSK	135	69	23.70	23.82	23.68	24.5
100	PI/2 BPSK	135	138	23.12	23.22	23.05	
100	PI/2 BPSK	270	0	23.24	23.34	23.13	
100	QPSK	1	1	23.69	23.84	23.68	24.5
100	QPSK	1	137	23.47	23.63	23.43	
100	QPSK	1	271	23.21	23.37	23.24	
100	QPSK	135	0	23.02	23.08	22.93	24.0
100	QPSK	135	69	23.66	23.74	23.58	
100	QPSK	135	138	22.95	23.11	22.98	
100	QPSK	270	0	22.90	22.98	22.79	24.0
100	16QAM	1	1	22.93	23.00	22.83	
100	64QAM	1	1	21.37	21.53	21.33	
100	256QAM	1	1	19.40	19.55	19.41	20.5
Channel				649668	656000	662332	25.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.72	23.81	23.73	
Channel				649334	656000	662666	25.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.73	23.79	23.68	
Channel				649000	656000	663000	25.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.73	23.83	23.72	
Channel				648668	656000	663332	25.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.74	23.84	23.68	
Channel				648334	656000	663666	25.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.79	23.80	23.70	
Channel				648000	656000	664000	25.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.76	23.79	23.67	
Channel				647668	656000	664332	25.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.77	23.77	23.68	
Channel				647334	656000	664666	25.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.79	23.85	23.66	



<FR1 n77_HPUE_Ant 6_Index 2>

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	656000	662000	5.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	4.63	4.77	4.71	
100	PI/2 BPSK	1	137	4.53	4.72	4.62	5.0
100	PI/2 BPSK	1	271	4.50	4.70	4.56	
100	PI/2 BPSK	135	0	4.50	4.73	4.61	
100	PI/2 BPSK	135	69	4.59	4.75	4.61	5.0
100	PI/2 BPSK	135	138	4.50	4.66	4.56	5.0
100	PI/2 BPSK	270	0	4.47	4.70	4.62	
100	QPSK	1	1	4.60	4.76	4.66	
100	QPSK	1	137	4.54	4.73	4.66	5.0
100	QPSK	1	271	4.54	4.69	4.62	
100	QPSK	135	0	4.46	4.69	4.60	
100	QPSK	135	69	4.52	4.73	4.57	5.0
100	QPSK	135	138	4.56	4.72	4.62	
100	QPSK	270	0	4.51	4.65	4.53	
100	16QAM	1	1	4.50	4.67	4.56	5.0
100	64QAM	1	1	4.52	4.69	4.60	5.0
100	256QAM	1	1	4.41	4.63	4.52	5.0
Channel				649668	656000	662332	5.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	4.53	4.66	4.55	
Channel				649334	656000	662666	5.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	4.50	4.65	4.49	
Channel				649000	656000	663000	5.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	4.41	4.59	4.54	
Channel				648668	656000	663332	5.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	4.47	4.62	4.59	
Channel				648334	656000	663666	5.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	4.41	4.64	4.54	
Channel				648000	656000	664000	5.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	4.53	4.61	4.61	
Channel				647668	656000	664332	5.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	4.51	4.65	4.58	
Channel				647334	656000	664666	5.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	4.53	4.57	4.53	



<FR1 n77_HPUE_Ant 6_Index 3>

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	656000	662000	12.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	12.33	12.47	12.41	
100	PI/2 BPSK	1	137	12.28	12.42	12.26	12.7
100	PI/2 BPSK	1	271	12.20	12.40	12.30	
100	PI/2 BPSK	135	0	12.22	12.43	12.31	
100	PI/2 BPSK	135	69	12.23	12.45	12.30	12.7
100	PI/2 BPSK	135	138	12.14	12.36	12.24	12.7
100	PI/2 BPSK	270	0	12.26	12.40	12.34	
100	QPSK	1	1	12.27	12.46	12.32	
100	QPSK	1	137	12.22	12.43	12.37	12.7
100	QPSK	1	271	12.17	12.39	12.23	
100	QPSK	135	0	12.15	12.39	12.30	
100	QPSK	135	69	12.28	12.43	12.35	12.7
100	QPSK	135	138	12.18	12.42	12.33	
100	QPSK	270	0	12.15	12.35	12.23	
100	16QAM	1	1	12.14	12.37	12.28	12.7
100	64QAM	1	1	12.15	12.39	12.33	12.7
100	256QAM	1	1	12.19	12.33	12.25	12.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	12.23	12.42	12.41	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	12.18	12.36	12.24	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	12.10	12.34	12.23	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	12.19	12.42	12.26	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	12.13	12.38	12.24	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	12.09	12.31	12.15	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	12.18	12.37	12.24	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	12.18	12.40	12.31	



<FR1 n77_Ant 3_Index 1>

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		20.25		
100	PI/2 BPSK	1	137		20.14		21.7
100	PI/2 BPSK	1	271		20.22		
100	PI/2 BPSK	135	0		20.23		
100	PI/2 BPSK	135	69		20.24		21.7
100	PI/2 BPSK	135	138		20.20		21.7
100	PI/2 BPSK	270	0		20.18		
100	QPSK	1	1		20.18		
100	QPSK	1	137		20.20		21.7
100	QPSK	1	271		20.15		
100	QPSK	135	0		20.16		
100	QPSK	135	69		20.22		21.7
100	QPSK	135	138		20.24		
100	QPSK	270	0		20.18		
100	16QAM	1	1		20.12		21.7
100	64QAM	1	1		20.23		21.7
100	256QAM	1	1		19.98		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.23	20.22	20.23	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.21	20.20	20.21	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.21	20.20	20.22	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.22	20.21	20.21	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.22	20.20	20.21	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.22	20.21	20.21	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.21	20.21	20.22	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.21	20.21	20.21	21.7



<FR1 n77_Ant 3_Index 2/3>

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		9.25		10.6
100	PI/2 BPSK	1	137		9.16		
100	PI/2 BPSK	1	271		9.10		
100	PI/2 BPSK	135	0		9.19		10.6
100	PI/2 BPSK	135	69		9.22		10.6
100	PI/2 BPSK	135	138		9.11		10.6
100	PI/2 BPSK	270	0		9.13		
100	QPSK	1	1		9.16		10.6
100	QPSK	1	137		9.13		
100	QPSK	1	271		9.09		
100	QPSK	135	0		9.07		10.6
100	QPSK	135	69		9.11		
100	QPSK	135	138		9.01		
100	QPSK	270	0		9.02		10.6
100	16QAM	1	1		9.19		10.6
100	64QAM	1	1		9.18		10.6
100	256QAM	1	1		9.09		10.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	9.11	9.13	9.14	10.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	8.95	8.99	8.94	10.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	8.97	9.01	9.03	10.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.00	8.94	9.04	10.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	8.98	9.00	8.94	10.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	8.91	9.02	9.03	10.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	8.97	8.99	8.94	10.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	8.98	8.96	9.02	10.6



<FR1 n77_Ant 2_Index 1>

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		9.51		
100	PI/2 BPSK	1	137		9.44		10.5
100	PI/2 BPSK	1	271		9.45		
100	PI/2 BPSK	135	0		9.39		10.5
100	PI/2 BPSK	135	69		9.47		10.5
100	PI/2 BPSK	135	138		9.41		10.5
100	PI/2 BPSK	270	0		9.42		
100	QPSK	1	1		9.46		10.5
100	QPSK	1	137		9.43		
100	QPSK	1	271		9.39		
100	QPSK	135	0		9.42		10.5
100	QPSK	135	69		9.46		
100	QPSK	135	138		9.31		
100	QPSK	270	0		9.37		10.5
100	16QAM	1	1		9.39		10.5
100	64QAM	1	1		9.48		10.5
100	256QAM	1	1		9.43		10.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	9.42	9.48	9.45	10.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	9.23	9.29	9.29	10.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	9.32	9.34	9.25	10.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.27	9.35	9.25	10.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	9.22	9.34	9.27	10.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	9.25	9.31	9.32	10.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	9.23	9.28	9.26	10.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	9.30	9.30	9.32	10.5



<FR1 n77_Ant 5_Index 1>

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		12.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		11.23		
100	PI/2 BPSK	1	137		11.16		12.0
100	PI/2 BPSK	1	271		11.10		
100	PI/2 BPSK	135	0		11.19		
100	PI/2 BPSK	135	69		11.22		12.0
100	PI/2 BPSK	135	138		11.21		12.0
100	PI/2 BPSK	270	0		11.14		
100	QPSK	1	1		11.19		
100	QPSK	1	137		11.13		12.0
100	QPSK	1	271		11.16		
100	QPSK	135	0		11.17		
100	QPSK	135	69		11.18		12.0
100	QPSK	135	138		11.11		
100	QPSK	270	0		11.13		
100	16QAM	1	1		11.19		12.0
100	64QAM	1	1		11.12		12.0
100	256QAM	1	1		11.16		12.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	11.20	11.21	11.18	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	11.03	11.03	11.05	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	11.06	11.04	11.01	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	11.03	11.05	11.01	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	11.04	11.06	11.04	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	11.04	11.15	11.02	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	11.04	11.12	11.01	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	11.02	11.08	11.05	



<FR1 n77_Ant 6_Index 1>

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		22.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.04		
100	PI/2 BPSK	1	137		21.01		22.0
100	PI/2 BPSK	1	271		21.00		
100	PI/2 BPSK	135	0		20.86		
100	PI/2 BPSK	135	69		20.92		22.0
100	PI/2 BPSK	135	138		20.90		22.0
100	PI/2 BPSK	270	0		20.88		
100	QPSK	1	1		21.02		
100	QPSK	1	137		21.01		22.0
100	QPSK	1	271		20.98		
100	QPSK	135	0		20.94		
100	QPSK	135	69		20.97		22.0
100	QPSK	135	138		20.91		
100	QPSK	270	0		20.87		
100	16QAM	1	1		21.00		22.0
100	64QAM	1	1		20.40		22.0
100	256QAM	1	1		19.25		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.98	21.03	21.01	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.76	20.81	20.81	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.81	20.86	20.80	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.80	20.84	20.85	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.84	20.86	20.87	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.79	20.88	20.85	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.82	20.84	20.88	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.82	20.90	20.84	



<FR1 n77_Ant 6_Index 2>

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		5.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		4.73		
100	PI/2 BPSK	1	137		4.66		5.0
100	PI/2 BPSK	1	271		4.60		
100	PI/2 BPSK	135	0		4.69		
100	PI/2 BPSK	135	69		4.72		5.0
100	PI/2 BPSK	135	138		4.71		5.0
100	PI/2 BPSK	270	0		4.64		
100	QPSK	1	1		4.69		
100	QPSK	1	137		4.63		5.0
100	QPSK	1	271		4.66		
100	QPSK	135	0		4.67		
100	QPSK	135	69		4.68		5.0
100	QPSK	135	138		4.61		
100	QPSK	270	0		4.63		
100	16QAM	1	1		4.69		5.0
100	64QAM	1	1		4.62		5.0
100	256QAM	1	1		4.66		5.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	4.61	4.58	4.60	5.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	4.50	4.38	4.44	5.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	4.44	4.35	4.39	5.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	4.42	4.44	4.41	5.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	4.50	4.36	4.48	5.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	4.42	4.37	4.49	5.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	4.40	4.41	4.49	5.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	4.39	4.36	4.42	5.0



<FR1 n77_Ant 6_Index 3>

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		12.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		12.43		
100	PI/2 BPSK	1	137		12.36		12.7
100	PI/2 BPSK	1	271		12.30		
100	PI/2 BPSK	135	0		12.39		
100	PI/2 BPSK	135	69		12.42		12.7
100	PI/2 BPSK	135	138		12.41		12.7
100	PI/2 BPSK	270	0		12.34		
100	QPSK	1	1		12.39		
100	QPSK	1	137		12.33		12.7
100	QPSK	1	271		12.36		
100	QPSK	135	0		12.37		
100	QPSK	135	69		12.38		12.7
100	QPSK	135	138		12.31		
100	QPSK	270	0		12.33		
100	16QAM	1	1		12.39		12.7
100	64QAM	1	1		12.32		12.7
100	256QAM	1	1		12.36		12.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.29	12.38	12.39	12.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.28	12.41	12.19	12.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.14	12.39	12.30	12.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.14	12.40	12.26	12.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.16	12.35	12.23	12.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.09	12.30	12.16	12.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.16	12.37	12.24	12.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.22	12.41	12.27	12.7



<FR1 n77_HPUE_Ant 3_Index 1>

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		20.25		
100	PI/2 BPSK	1	137		20.14		21.7
100	PI/2 BPSK	1	271		20.22		
100	PI/2 BPSK	135	0		20.23		
100	PI/2 BPSK	135	69		20.24		21.7
100	PI/2 BPSK	135	138		20.20		21.7
100	PI/2 BPSK	270	0		20.18		
100	QPSK	1	1		20.18		
100	QPSK	1	137		20.20		21.7
100	QPSK	1	271		20.15		
100	QPSK	135	0		20.16		
100	QPSK	135	69		20.22		21.7
100	QPSK	135	138		20.24		
100	QPSK	270	0		20.18		
100	16QAM	1	1		20.12		21.7
100	64QAM	1	1		20.23		21.7
100	256QAM	1	1		19.98		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.23	20.22	20.23	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.21	20.20	20.21	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.21	20.20	20.22	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.22	20.21	20.21	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.22	20.20	20.21	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.22	20.21	20.21	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.21	20.21	20.22	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.21	20.21	20.21	



<FR1 n77_HPUE_Ant 3_Index 2/3>

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		10.6
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		9.25		
100	PI/2 BPSK	1	137		9.16		10.6
100	PI/2 BPSK	1	271		9.10		
100	PI/2 BPSK	135	0		9.19		
100	PI/2 BPSK	135	69		9.22		10.6
100	PI/2 BPSK	135	138		9.11		10.6
100	PI/2 BPSK	270	0		9.13		
100	QPSK	1	1		9.16		
100	QPSK	1	137		9.13		10.6
100	QPSK	1	271		9.09		
100	QPSK	135	0		9.07		
100	QPSK	135	69		9.11		10.6
100	QPSK	135	138		9.01		
100	QPSK	270	0		9.02		
100	16QAM	1	1		9.19		10.6
100	64QAM	1	1		9.18		10.6
100	256QAM	1	1		9.09		10.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	9.15	9.21	9.13	10.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	9.00	9.02	8.98	10.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	9.05	9.01	9.02	10.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.03	9.02	8.93	10.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	9.04	9.03	8.97	10.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	8.95	9.01	9.01	10.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	9.02	9.01	9.03	10.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	9.01	9.07	9.00	10.6



<FR1 n77_HPUE_Ant 2_Index 1>

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		10.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		9.51		
100	PI/2 BPSK	1	137		9.44		10.5
100	PI/2 BPSK	1	271		9.45		
100	PI/2 BPSK	135	0		9.39		
100	PI/2 BPSK	135	69		9.47		10.5
100	PI/2 BPSK	135	138		9.41		10.5
100	PI/2 BPSK	270	0		9.42		
100	QPSK	1	1		9.46		
100	QPSK	1	137		9.43		10.5
100	QPSK	1	271		9.39		
100	QPSK	135	0		9.42		
100	QPSK	135	69		9.46		10.5
100	QPSK	135	138		9.31		
100	QPSK	270	0		9.37		
100	16QAM	1	1		9.39		10.5
100	64QAM	1	1		9.48		10.5
100	256QAM	1	1		9.43		10.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	9.42	9.48	9.45	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	9.23	9.29	9.29	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	9.32	9.34	9.25	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.27	9.35	9.25	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	9.22	9.34	9.27	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	9.25	9.31	9.32	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	9.23	9.28	9.26	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	9.30	9.30	9.32	



<FR1 n77_HPUE_Ant 5_Index 1>

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		12.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		11.23		
100	PI/2 BPSK	1	137		11.16		12.0
100	PI/2 BPSK	1	271		11.10		
100	PI/2 BPSK	135	0		11.19		
100	PI/2 BPSK	135	69		11.22		12.0
100	PI/2 BPSK	135	138		11.21		12.0
100	PI/2 BPSK	270	0		11.14		
100	QPSK	1	1		11.19		
100	QPSK	1	137		11.13		12.0
100	QPSK	1	271		11.16		
100	QPSK	135	0		11.17		
100	QPSK	135	69		11.18		12.0
100	QPSK	135	138		11.11		
100	QPSK	270	0		11.13		
100	16QAM	1	1		11.19		12.0
100	64QAM	1	1		11.12		12.0
100	256QAM	1	1		11.16		12.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	11.20	11.21	11.18	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	11.03	11.03	11.05	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	11.06	11.04	11.01	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	11.03	11.05	11.01	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	11.04	11.06	11.04	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	11.04	11.15	11.02	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	11.04	11.12	11.01	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	11.02	11.08	11.05	



<FR1 n77_HPUE_Ant 6_Index 1>

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		25.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.91		
100	PI/2 BPSK	1	137		23.70		24.5
100	PI/2 BPSK	1	271		23.49		
100	PI/2 BPSK	135	0		23.38		
100	PI/2 BPSK	135	69		23.68		24.5
100	PI/2 BPSK	135	138		23.04		
100	PI/2 BPSK	270	0		23.14		
100	QPSK	1	1		23.67		24.5
100	QPSK	1	137		23.47		
100	QPSK	1	271		23.20		
100	QPSK	135	0		22.96		24.5
100	QPSK	135	69		23.59		
100	QPSK	135	138		22.92		
100	QPSK	270	0		22.84		24.0
100	16QAM	1	1		22.84		
100	64QAM	1	1		21.30		
100	256QAM	1	1		19.34		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.68	23.69	23.70	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.52	23.53	23.47	25.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.52	23.55	23.50	25.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.44	23.50	23.57	25.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.42	23.53	23.52	25.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.47	23.43	23.52	25.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.52	23.56	23.46	25.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.50	23.52	23.47	25.0



<FR1 n77_HPUE_Ant 6_Index 2>

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		5.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		4.73		
100	PI/2 BPSK	1	137		4.66		5.0
100	PI/2 BPSK	1	271		4.60		
100	PI/2 BPSK	135	0		4.69		
100	PI/2 BPSK	135	69		4.72		5.0
100	PI/2 BPSK	135	138		4.71		5.0
100	PI/2 BPSK	270	0		4.64		
100	QPSK	1	1		4.69		
100	QPSK	1	137		4.63		5.0
100	QPSK	1	271		4.66		
100	QPSK	135	0		4.67		
100	QPSK	135	69		4.68		5.0
100	QPSK	135	138		4.61		
100	QPSK	270	0		4.63		
100	16QAM	1	1		4.69		5.0
100	64QAM	1	1		4.62		5.0
100	256QAM	1	1		4.66		5.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	4.61	4.58	4.60	5.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	4.50	4.38	4.44	5.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	4.44	4.35	4.39	5.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	4.42	4.44	4.41	5.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	4.50	4.36	4.48	5.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	4.42	4.37	4.49	5.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	4.40	4.41	4.49	5.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	4.39	4.36	4.42	5.0



<FR1 n77_HPUE_Ant 6_Index 3>

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		12.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		12.43		
100	PI/2 BPSK	1	137		12.36		12.7
100	PI/2 BPSK	1	271		12.30		
100	PI/2 BPSK	135	0		12.39		
100	PI/2 BPSK	135	69		12.42		12.7
100	PI/2 BPSK	135	138		12.41		12.7
100	PI/2 BPSK	270	0		12.34		
100	QPSK	1	1		12.39		
100	QPSK	1	137		12.33		12.7
100	QPSK	1	271		12.36		
100	QPSK	135	0		12.37		
100	QPSK	135	69		12.38		12.7
100	QPSK	135	138		12.31		
100	QPSK	270	0		12.33		
100	16QAM	1	1		12.39		12.7
100	64QAM	1	1		12.32		12.7
100	256QAM	1	1		12.36		12.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.29	12.38	12.39	12.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.28	12.41	12.19	12.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.14	12.39	12.30	12.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.14	12.40	12.26	12.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.16	12.35	12.23	12.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.09	12.30	12.16	12.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.16	12.37	12.24	12.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.22	12.41	12.27	12.7



<FR1 n78_Ant 3_Index 1>

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		20.33		
100	PI/2 BPSK	1	137		20.19		21.7
100	PI/2 BPSK	1	271		20.09		
100	PI/2 BPSK	135	0		20.24		
100	PI/2 BPSK	135	69		20.25		21.7
100	PI/2 BPSK	135	138		20.06		21.7
100	PI/2 BPSK	270	0		20.22		
100	QPSK	1	1		20.28		
100	QPSK	1	137		20.17		21.7
100	QPSK	1	271		20.19		
100	QPSK	135	0		20.27		
100	QPSK	135	69		20.14		21.7
100	QPSK	135	138		20.10		
100	QPSK	270	0		20.16		
100	16QAM	1	1		20.32		21.7
100	64QAM	1	1		20.30		21.7
100	256QAM	1	1		19.98		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.32	20.32	20.32	21.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.32	20.32	20.31	21.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.32	20.31	20.32	21.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.32	20.32	20.31	21.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.31	20.31	20.31	21.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.31	20.30	20.30	21.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.31	20.30	20.31	21.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.30	20.29	20.30	21.7



<FR1 n78_Ant 3_Index 2/3>

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		9.67		
100	PI/2 BPSK	1	137		9.53		10.6
100	PI/2 BPSK	1	271		9.48		
100	PI/2 BPSK	135	0		9.56		
100	PI/2 BPSK	135	69		9.62		10.6
100	PI/2 BPSK	135	138		9.59		10.6
100	PI/2 BPSK	270	0		9.53		
100	QPSK	1	1		9.54		
100	QPSK	1	137		9.46		10.6
100	QPSK	1	271		9.47		
100	QPSK	135	0		9.39		
100	QPSK	135	69		9.54		10.6
100	QPSK	135	138		9.43		
100	QPSK	270	0		9.44		
100	16QAM	1	1		9.55		10.6
100	64QAM	1	1		9.53		10.6
100	256QAM	1	1		9.43		10.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	9.65	9.66	9.62	10.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	9.46	9.48	9.43	10.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	9.53	9.53	9.46	10.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	9.47	9.49	9.48	10.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	9.54	9.48	9.44	10.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	9.50	9.50	9.44	10.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	9.54	9.52	9.46	10.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	9.49	9.56	9.51	10.6



<FR1 n78_Ant 2_Index 1>

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		10.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		9.33		
100	PI/2 BPSK	1	137		9.25		10.5
100	PI/2 BPSK	1	271		9.21		
100	PI/2 BPSK	135	0		9.26		
100	PI/2 BPSK	135	69		9.29		10.5
100	PI/2 BPSK	135	138		9.20		10.5
100	PI/2 BPSK	270	0		9.25		
100	QPSK	1	1		9.30		
100	QPSK	1	137		9.22		10.5
100	QPSK	1	271		9.25		
100	QPSK	135	0		9.24		
100	QPSK	135	69		9.27		10.5
100	QPSK	135	138		9.22		
100	QPSK	270	0		9.21		
100	16QAM	1	1		9.18		10.5
100	64QAM	1	1		9.19		10.5
100	256QAM	1	1		9.22		10.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	9.28	9.30	9.27	10.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	9.10	9.14	9.13	10.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	9.17	9.20	9.07	10.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	9.18	9.13	9.11	10.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	9.11	9.16	9.10	10.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	9.17	9.17	9.12	10.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	9.11	9.12	9.11	10.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	9.12	9.16	9.08	10.5



<FR1 n78_Ant 5_Index 1>

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		11.31		
100	PI/2 BPSK	1	137		11.20		12.0
100	PI/2 BPSK	1	271		11.14		
100	PI/2 BPSK	135	0		11.27		12.0
100	PI/2 BPSK	135	69		11.28		12.0
100	PI/2 BPSK	135	138		11.16		12.0
100	PI/2 BPSK	270	0		11.21		
100	QPSK	1	1		11.28		12.0
100	QPSK	1	137		11.16		
100	QPSK	1	271		11.26		
100	QPSK	135	0		11.24		12.0
100	QPSK	135	69		11.28		
100	QPSK	135	138		11.20		
100	QPSK	270	0		11.14		12.0
100	16QAM	1	1		11.27		12.0
100	64QAM	1	1		11.18		12.0
100	256QAM	1	1		11.22		12.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	11.23	11.26	11.21	12.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	11.06	11.10	11.04	12.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	11.08	11.12	11.08	12.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	11.05	11.08	11.08	12.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	11.05	11.13	11.08	12.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	11.09	11.08	11.08	12.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	11.09	11.12	11.04	12.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	11.10	11.12	11.07	12.0



<FR1 n78_Ant 6_Index 1>

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		20.72		21.5
100	PI/2 BPSK	1	137		20.64		21.5
100	PI/2 BPSK	1	271		20.59		
100	PI/2 BPSK	135	0		20.68		
100	PI/2 BPSK	135	69		20.65		21.5
100	PI/2 BPSK	135	138		20.61		21.5
100	PI/2 BPSK	270	0		20.61		
100	QPSK	1	1		20.64		21.5
100	QPSK	1	137		20.60		
100	QPSK	1	271		20.53		
100	QPSK	135	0		20.61		21.5
100	QPSK	135	69		20.52		21.5
100	QPSK	135	138		20.57		21.5
100	QPSK	270	0		20.60		
100	16QAM	1	1		20.54		21.5
100	64QAM	1	1		20.56		21.5
100	256QAM	1	1		19.15		20.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.58	20.54	20.56	21.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.40	20.35	20.40	21.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.44	20.33	20.35	21.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.37	20.41	20.36	21.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.46	20.37	20.44	21.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.45	20.31	20.36	21.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.44	20.32	20.34	21.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.41	20.41	20.40	21.5



<FR1 n78_Ant 6_Index 2>

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		4.52		
100	PI/2 BPSK	1	137		4.50		5.0
100	PI/2 BPSK	1	271		4.50		
100	PI/2 BPSK	135	0		4.48		
100	PI/2 BPSK	135	69		4.49		5.0
100	PI/2 BPSK	135	138		4.45		5.0
100	PI/2 BPSK	270	0		4.46		
100	QPSK	1	1		4.46		
100	QPSK	1	137		4.41		5.0
100	QPSK	1	271		4.39		
100	QPSK	135	0		4.51		
100	QPSK	135	69		4.48		5.0
100	QPSK	135	138		4.42		
100	QPSK	270	0		4.47		
100	16QAM	1	1		4.49		5.0
100	64QAM	1	1		4.50		5.0
100	256QAM	1	1		4.48		5.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	4.46	4.40	4.44	5.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	4.48	4.48	4.47	5.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	4.47	4.40	4.47	5.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	4.51	4.45	4.42	5.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	4.51	4.49	4.40	5.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	4.42	4.48	4.43	5.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	4.48	4.50	4.47	5.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	4.42	4.46	4.42	5.0



<FR1 n78_Ant 6_Index 3>

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		12.22		
100	PI/2 BPSK	1	137		12.20		12.7
100	PI/2 BPSK	1	271		12.20		
100	PI/2 BPSK	135	0		12.18		12.7
100	PI/2 BPSK	135	69		12.19		12.7
100	PI/2 BPSK	135	138		12.15		12.7
100	PI/2 BPSK	270	0		12.16		
100	QPSK	1	1		12.16		12.7
100	QPSK	1	137		12.11		
100	QPSK	1	271		12.09		
100	QPSK	135	0		12.21		12.7
100	QPSK	135	69		12.18		
100	QPSK	135	138		12.12		
100	QPSK	270	0		12.17		12.7
100	16QAM	1	1		12.19		12.7
100	64QAM	1	1		12.20		12.7
100	256QAM	1	1		12.18		12.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	12.18	12.13	12.15	12.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	12.09	12.18	12.10	12.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	12.18	12.20	12.19	12.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	12.18	12.13	12.12	12.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	12.13	12.12	12.13	12.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	12.14	12.20	12.19	12.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	12.12	12.12	12.18	12.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	12.10	12.19	12.18	12.7



<FR1 n78_HPUE_Ant 3_Index 1>

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		20.33		
100	PI/2 BPSK	1	137		20.19		21.7
100	PI/2 BPSK	1	271		20.09		
100	PI/2 BPSK	135	0		20.24		21.7
100	PI/2 BPSK	135	69		20.25		21.7
100	PI/2 BPSK	135	138		20.06		21.7
100	PI/2 BPSK	270	0		20.22		
100	QPSK	1	1		20.28		21.7
100	QPSK	1	137		20.17		
100	QPSK	1	271		20.19		
100	QPSK	135	0		20.27		21.7
100	QPSK	135	69		20.14		
100	QPSK	135	138		20.10		
100	QPSK	270	0		20.16		21.7
100	16QAM	1	1		20.32		21.7
100	64QAM	1	1		20.30		21.7
100	256QAM	1	1		19.98		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.32	20.32	20.32	21.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.32	20.32	20.31	21.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.32	20.31	20.32	21.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.32	20.32	20.31	21.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.31	20.31	20.31	21.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.31	20.30	20.30	21.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.31	20.30	20.31	21.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.30	20.29	20.30	21.7



<FR1 n78_HPUE_Ant 3_Index 2/3>

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		10.6
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		9.67		
100	PI/2 BPSK	1	137		9.53		10.6
100	PI/2 BPSK	1	271		9.48		
100	PI/2 BPSK	135	0		9.56		
100	PI/2 BPSK	135	69		9.62		10.6
100	PI/2 BPSK	135	138		9.59		10.6
100	PI/2 BPSK	270	0		9.53		
100	QPSK	1	1		9.54		
100	QPSK	1	137		9.46		10.6
100	QPSK	1	271		9.47		
100	QPSK	135	0		9.39		
100	QPSK	135	69		9.54		10.6
100	QPSK	135	138		9.43		
100	QPSK	270	0		9.44		
100	16QAM	1	1		9.55		10.6
100	64QAM	1	1		9.53		10.6
100	256QAM	1	1		9.43		10.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	9.65	9.66	9.62	10.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	9.46	9.48	9.43	10.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	9.53	9.53	9.46	10.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	9.47	9.49	9.48	10.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	9.54	9.48	9.44	10.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	9.50	9.50	9.44	10.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	9.54	9.52	9.46	10.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	9.49	9.56	9.51	10.6



<FR1 n78_HPUE_Ant 2_Index 1>

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		10.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		9.33		
100	PI/2 BPSK	1	137		9.25		10.5
100	PI/2 BPSK	1	271		9.21		
100	PI/2 BPSK	135	0		9.26		
100	PI/2 BPSK	135	69		9.29		10.5
100	PI/2 BPSK	135	138		9.20		10.5
100	PI/2 BPSK	270	0		9.25		
100	QPSK	1	1		9.30		
100	QPSK	1	137		9.22		10.5
100	QPSK	1	271		9.25		
100	QPSK	135	0		9.24		
100	QPSK	135	69		9.27		10.5
100	QPSK	135	138		9.22		
100	QPSK	270	0		9.21		
100	16QAM	1	1		9.18		10.5
100	64QAM	1	1		9.19		10.5
100	256QAM	1	1		9.22		10.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	9.28	9.30	9.27	10.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	9.10	9.14	9.13	10.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	9.17	9.20	9.07	10.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	9.18	9.13	9.11	10.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	9.11	9.16	9.10	10.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	9.17	9.17	9.12	10.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	9.11	9.12	9.11	10.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	9.12	9.16	9.08	10.5



<FR1 n78_HPUE_Ant 5_Index 1>

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		12.0
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		11.31		
100	PI/2 BPSK	1	137		11.20		12.0
100	PI/2 BPSK	1	271		11.14		
100	PI/2 BPSK	135	0		11.27		
100	PI/2 BPSK	135	69		11.28		12.0
100	PI/2 BPSK	135	138		11.16		12.0
100	PI/2 BPSK	270	0		11.21		
100	QPSK	1	1		11.28		
100	QPSK	1	137		11.16		12.0
100	QPSK	1	271		11.26		
100	QPSK	135	0		11.24		
100	QPSK	135	69		11.28		12.0
100	QPSK	135	138		11.20		
100	QPSK	270	0		11.14		
100	16QAM	1	1		11.27		12.0
100	64QAM	1	1		11.18		12.0
100	256QAM	1	1		11.22		12.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	11.23	11.26	11.21	12.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	11.06	11.10	11.04	12.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	11.08	11.12	11.08	12.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	11.05	11.08	11.08	12.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	11.05	11.13	11.08	12.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	11.09	11.08	11.08	12.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	11.09	11.12	11.04	12.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	11.10	11.12	11.07	12.0



<FR1 n78_HPUE_Ant 6_Index 1>

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		23.27		24.5
100	PI/2 BPSK	1	137		22.64		24.0
100	PI/2 BPSK	1	271		22.52		
100	PI/2 BPSK	135	0		22.44		
100	PI/2 BPSK	135	69		22.60		24.5
100	PI/2 BPSK	135	138		22.15		24.0
100	PI/2 BPSK	270	0		22.29		
100	QPSK	1	1		22.98		24.0
100	QPSK	1	137		22.26		
100	QPSK	1	271		22.25		
100	QPSK	135	0		22.31		23.5
100	QPSK	135	69		22.43		24.0
100	QPSK	135	138		22.03		23.5
100	QPSK	270	0		21.73		
100	16QAM	1	1		22.26		23.5
100	64QAM	1	1		21.18		22.0
100	256QAM	1	1		19.17		20.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.04	23.13	23.05	24.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.85	22.91	22.91	24.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.91	23.01	22.82	24.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.84	22.91	22.92	24.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.82	22.91	22.89	24.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.91	22.91	22.90	24.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.88	22.91	22.82	24.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.77	22.77	22.69	24.5



<FR1 n78_HPUE_Ant 6_Index 2>

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		4.52		
100	PI/2 BPSK	1	137		4.50		5.0
100	PI/2 BPSK	1	271		4.50		
100	PI/2 BPSK	135	0		4.48		5.0
100	PI/2 BPSK	135	69		4.49		5.0
100	PI/2 BPSK	135	138		4.45		5.0
100	PI/2 BPSK	270	0		4.46		
100	QPSK	1	1		4.46		5.0
100	QPSK	1	137		4.41		
100	QPSK	1	271		4.39		
100	QPSK	135	0		4.51		5.0
100	QPSK	135	69		4.48		
100	QPSK	135	138		4.42		
100	QPSK	270	0		4.47		5.0
100	16QAM	1	1		4.49		5.0
100	64QAM	1	1		4.50		5.0
100	256QAM	1	1		4.48		5.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	4.46	4.40	4.44	5.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	4.48	4.48	4.47	5.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	4.47	4.40	4.47	5.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	4.51	4.45	4.42	5.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	4.51	4.49	4.40	5.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	4.42	4.48	4.43	5.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	4.48	4.50	4.47	5.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	4.42	4.46	4.42	5.0



<FR1 n78_HPUE_Ant 6_Index 3>

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		12.22		
100	PI/2 BPSK	1	137		12.20		12.7
100	PI/2 BPSK	1	271		12.20		
100	PI/2 BPSK	135	0		12.18		12.7
100	PI/2 BPSK	135	69		12.19		12.7
100	PI/2 BPSK	135	138		12.15		12.7
100	PI/2 BPSK	270	0		12.16		
100	QPSK	1	1		12.16		12.7
100	QPSK	1	137		12.11		
100	QPSK	1	271		12.09		
100	QPSK	135	0		12.21		12.7
100	QPSK	135	69		12.18		
100	QPSK	135	138		12.12		
100	QPSK	270	0		12.17		12.7
100	16QAM	1	1		12.19		12.7
100	64QAM	1	1		12.20		12.7
100	256QAM	1	1		12.18		12.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	12.18	12.13	12.15	12.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	12.09	12.18	12.10	12.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	12.18	12.20	12.19	12.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	12.18	12.13	12.12	12.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	12.13	12.12	12.13	12.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	12.14	12.20	12.19	12.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	12.12	12.12	12.18	12.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	12.10	12.19	12.18	12.7



<FR1 n78_Ant 3_Index 1>

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		20.24		
100	PI/2 BPSK	1	137		20.14		21.7
100	PI/2 BPSK	1	271		20.22		
100	PI/2 BPSK	135	0		20.21		
100	PI/2 BPSK	135	69		20.23		21.7
100	PI/2 BPSK	135	138		20.20		21.7
100	PI/2 BPSK	270	0		20.18		
100	QPSK	1	1		20.18		
100	QPSK	1	137		20.20		21.7
100	QPSK	1	271		20.21		
100	QPSK	135	0		20.16		
100	QPSK	135	69		20.22		21.7
100	QPSK	135	138		20.22		
100	QPSK	270	0		20.18		
100	16QAM	1	1		20.12		21.7
100	64QAM	1	1		20.20		21.7
100	256QAM	1	1		19.98		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.20	20.21	20.18	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.19	20.19	20.17	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.18	20.19	20.17	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.18	20.20	20.16	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.18	20.20	20.16	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.18	20.20	20.16	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.19	20.20	20.16	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.19	20.19	20.17	21.7



<FR1 n78_Ant 3_Index 2/3>

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		10.6
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		9.67		
100	PI/2 BPSK	1	137		9.59		10.6
100	PI/2 BPSK	1	271		9.51		
100	PI/2 BPSK	135	0		9.56		
100	PI/2 BPSK	135	69		9.64		10.6
100	PI/2 BPSK	135	138		9.57		10.6
100	PI/2 BPSK	270	0		9.55		
100	QPSK	1	1		9.50		
100	QPSK	1	137		9.52		10.6
100	QPSK	1	271		9.39		
100	QPSK	135	0		9.43		
100	QPSK	135	69		9.52		10.6
100	QPSK	135	138		9.46		
100	QPSK	270	0		9.37		
100	16QAM	1	1		9.51		10.6
100	64QAM	1	1		9.49		10.6
100	256QAM	1	1		9.45		10.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	9.63	9.65	9.61	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	9.47	9.50	9.45	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	9.47	9.49	9.47	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.45	9.49	9.46	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	9.44	9.48	9.51	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	9.43	9.51	9.49	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	9.52	9.51	9.44	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	9.51	9.45	9.47	



<FR1 n78_Ant 2_Index 1>

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		9.25		
100	PI/2 BPSK	1	137		9.20		10.5
100	PI/2 BPSK	1	271		9.10		
100	PI/2 BPSK	135	0		9.20		
100	PI/2 BPSK	135	69		9.23		10.5
100	PI/2 BPSK	135	138		9.14		10.5
100	PI/2 BPSK	270	0		9.18		
100	QPSK	1	1		9.15		
100	QPSK	1	137		9.13		10.5
100	QPSK	1	271		9.12		
100	QPSK	135	0		9.15		
100	QPSK	135	69		9.19		10.5
100	QPSK	135	138		9.05		
100	QPSK	270	0		9.09		
100	16QAM	1	1		9.13		10.5
100	64QAM	1	1		9.14		10.5
100	256QAM	1	1		9.06		10.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	9.18	9.21	9.19	10.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	9.04	9.07	9.04	10.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	9.06	9.09	9.09	10.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.07	9.01	9.05	10.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	9.06	9.04	9.02	10.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	9.07	9.11	9.09	10.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	9.00	9.06	8.99	10.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	9.05	9.09	9.07	10.5



<FR1 n78_Ant 5_Index 1>

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		11.26		
100	PI/2 BPSK	1	137		11.19		12.0
100	PI/2 BPSK	1	271		11.11		
100	PI/2 BPSK	135	0		11.17		12.0
100	PI/2 BPSK	135	69		11.20		12.0
100	PI/2 BPSK	135	138		11.07		12.0
100	PI/2 BPSK	270	0		11.14		
100	QPSK	1	1		11.26		12.0
100	QPSK	1	137		11.06		
100	QPSK	1	271		11.16		
100	QPSK	135	0		11.20		12.0
100	QPSK	135	69		11.24		
100	QPSK	135	138		11.19		
100	QPSK	270	0		11.06		12.0
100	16QAM	1	1		11.18		12.0
100	64QAM	1	1		11.13		12.0
100	256QAM	1	1		11.19		12.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	11.10	11.05	10.06	12.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	10.95	10.89	10.95	12.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	10.95	10.92	10.97	12.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	10.95	10.90	10.95	12.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	10.95	10.89	10.97	12.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	10.95	10.90	10.95	12.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	10.97	10.91	10.95	12.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	10.94	10.89	10.97	12.0



<FR1 n78_Ant 6_Index 1>

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		20.92		21.5
100	PI/2 BPSK	1	137		20.84		21.5
100	PI/2 BPSK	1	271		20.89		
100	PI/2 BPSK	135	0		20.78		
100	PI/2 BPSK	135	69		20.85		21.5
100	PI/2 BPSK	135	138		20.81		21.5
100	PI/2 BPSK	270	0		20.76		
100	QPSK	1	1		20.84		21.5
100	QPSK	1	137		20.80		
100	QPSK	1	271		20.73		
100	QPSK	135	0		20.81		21.5
100	QPSK	135	69		20.82		21.5
100	QPSK	135	138		20.77		21.5
100	QPSK	270	0		20.80		
100	16QAM	1	1		20.84		21.5
100	64QAM	1	1		20.76		21.5
100	256QAM	1	1		19.20		20.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.68	20.75	20.71	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.56	20.63	20.48	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.51	20.58	20.55	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.45	20.54	20.50	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.54	20.52	20.57	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.47	20.53	20.49	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.45	20.58	20.52	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.44	20.53	20.54	21.5

<FR1 n78_Ant 6_Index 2>

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		5.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		4.92		
100	PI/2 BPSK	1	137		4.75		5.0
100	PI/2 BPSK	1	271		4.59		
100	PI/2 BPSK	135	0		4.74		
100	PI/2 BPSK	135	69		4.77		5.0
100	PI/2 BPSK	135	138		4.54		5.0
100	PI/2 BPSK	270	0		4.76		
100	QPSK	1	1		4.80		
100	QPSK	1	137		4.65		5.0
100	QPSK	1	271		4.54		
100	QPSK	135	0		4.77		
100	QPSK	135	69		4.71		5.0
100	QPSK	135	138		4.57		
100	QPSK	270	0		4.75		
100	16QAM	1	1		4.90		5.0
100	64QAM	1	1		4.91		5.0
100	256QAM	1	1		4.90		5.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	4.81	4.85	4.75	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	4.80	4.86	4.79	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	4.87	4.87	4.83	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	4.88	4.87	4.80	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	4.84	4.90	4.79	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	4.85	4.85	4.79	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	4.79	4.86	4.75	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	4.85	4.88	4.79	



<FR1 n78_Ant 6_Index 3>

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		12.62		
100	PI/2 BPSK	1	137		12.45		12.7
100	PI/2 BPSK	1	271		12.29		
100	PI/2 BPSK	135	0		12.44		
100	PI/2 BPSK	135	69		12.47		12.7
100	PI/2 BPSK	135	138		12.24		12.7
100	PI/2 BPSK	270	0		12.46		
100	QPSK	1	1		12.50		
100	QPSK	1	137		12.35		12.7
100	QPSK	1	271		12.24		
100	QPSK	135	0		12.47		
100	QPSK	135	69		12.41		12.7
100	QPSK	135	138		12.27		
100	QPSK	270	0		12.45		
100	16QAM	1	1		12.60		12.7
100	64QAM	1	1		12.61		12.7
100	256QAM	1	1		12.60		12.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.56	12.53	12.57	12.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.55	12.57	12.54	12.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.50	12.60	12.54	12.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.48	12.58	12.59	12.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.56	12.53	12.56	12.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.48	12.57	12.55	12.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.57	12.55	12.58	12.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.50	12.56	12.51	12.7

**<FR1 n78_HPUE_Ant 3_Index 1>**

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		20.24		21.7
100	PI/2 BPSK	1	137		20.14		
100	PI/2 BPSK	1	271		20.22		
100	PI/2 BPSK	135	0		20.21		21.7
100	PI/2 BPSK	135	69		20.23		21.7
100	PI/2 BPSK	135	138		20.20		21.7
100	PI/2 BPSK	270	0		20.18		
100	QPSK	1	1		20.18		21.7
100	QPSK	1	137		20.20		
100	QPSK	1	271		20.21		
100	QPSK	135	0		20.16		21.7
100	QPSK	135	69		20.22		
100	QPSK	135	138		20.22		
100	QPSK	270	0		20.18		21.7
100	16QAM	1	1		20.12		21.7
100	64QAM	1	1		20.20		21.7
100	256QAM	1	1		19.98		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.20	20.21	20.18	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.19	20.19	20.17	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.18	20.19	20.17	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.18	20.20	20.16	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.18	20.20	20.16	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.18	20.20	20.16	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.19	20.20	20.16	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.19	20.19	20.17	21.7



<FR1 n78_HPUE_Ant 3_Index 2/3>

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		10.6
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		9.67		
100	PI/2 BPSK	1	137		9.59		10.6
100	PI/2 BPSK	1	271		9.51		
100	PI/2 BPSK	135	0		9.56		
100	PI/2 BPSK	135	69		9.64		10.6
100	PI/2 BPSK	135	138		9.57		10.6
100	PI/2 BPSK	270	0		9.55		
100	QPSK	1	1		9.50		
100	QPSK	1	137		9.52		10.6
100	QPSK	1	271		9.39		
100	QPSK	135	0		9.43		
100	QPSK	135	69		9.52		10.6
100	QPSK	135	138		9.46		
100	QPSK	270	0		9.37		
100	16QAM	1	1		9.51		10.6
100	64QAM	1	1		9.49		10.6
100	256QAM	1	1		9.45		10.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	9.63	9.65	9.61	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	9.47	9.50	9.45	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	9.47	9.49	9.47	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.45	9.49	9.46	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	9.44	9.48	9.51	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	9.43	9.51	9.49	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	9.52	9.51	9.44	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	9.51	9.45	9.47	



<FR1 n78_HPUE_Ant 2_Index 1>

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		10.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		9.25		
100	PI/2 BPSK	1	137		9.20		10.5
100	PI/2 BPSK	1	271		9.10		
100	PI/2 BPSK	135	0		9.20		
100	PI/2 BPSK	135	69		9.23		10.5
100	PI/2 BPSK	135	138		9.14		10.5
100	PI/2 BPSK	270	0		9.18		
100	QPSK	1	1		9.15		
100	QPSK	1	137		9.13		10.5
100	QPSK	1	271		9.12		
100	QPSK	135	0		9.15		
100	QPSK	135	69		9.19		10.5
100	QPSK	135	138		9.05		
100	QPSK	270	0		9.09		
100	16QAM	1	1		9.13		10.5
100	64QAM	1	1		9.14		10.5
100	256QAM	1	1		9.06		10.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	9.18	9.21	9.19	10.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	9.04	9.07	9.04	10.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	9.06	9.09	9.09	10.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.07	9.01	9.05	10.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	9.06	9.04	9.02	10.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	9.07	9.11	9.09	10.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	9.00	9.06	8.99	10.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	9.05	9.09	9.07	10.5



<FR1 n78_HPUE_Ant 5_Index 1>

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		12.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		11.26		
100	PI/2 BPSK	1	137		11.19		12.0
100	PI/2 BPSK	1	271		11.11		
100	PI/2 BPSK	135	0		11.17		
100	PI/2 BPSK	135	69		11.20		12.0
100	PI/2 BPSK	135	138		11.07		12.0
100	PI/2 BPSK	270	0		11.14		
100	QPSK	1	1		11.26		
100	QPSK	1	137		11.06		12.0
100	QPSK	1	271		11.16		
100	QPSK	135	0		11.20		
100	QPSK	135	69		11.24		12.0
100	QPSK	135	138		11.19		
100	QPSK	270	0		11.06		
100	16QAM	1	1		11.18		12.0
100	64QAM	1	1		11.13		12.0
100	256QAM	1	1		11.19		12.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	11.10	11.05	10.06	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	10.95	10.89	10.95	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	10.95	10.92	10.97	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	10.95	10.90	10.95	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	10.95	10.89	10.97	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	10.95	10.90	10.95	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	10.97	10.91	10.95	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	10.94	10.89	10.97	



<FR1 n78_HPUE_Ant 6_Index 1>

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		23.27		24.5
100	PI/2 BPSK	1	137		22.97		24.0
100	PI/2 BPSK	1	271		22.84		
100	PI/2 BPSK	135	0		22.39		
100	PI/2 BPSK	135	69		22.53		24.5
100	PI/2 BPSK	135	138		22.26		24.0
100	PI/2 BPSK	270	0		22.25		
100	QPSK	1	1		22.95		24.0
100	QPSK	1	137		22.91		
100	QPSK	1	271		22.96		
100	QPSK	135	0		22.45		23.5
100	QPSK	135	69		22.42		24.0
100	QPSK	135	138		22.33		23.5
100	QPSK	270	0		22.00		
100	16QAM	1	1		22.24		23.5
100	64QAM	1	1		21.15		22.0
100	256QAM	1	1		19.15		20.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.14	23.06	23.05	24.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.01	22.83	22.89	24.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.96	22.87	22.84	24.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.00	22.88	22.89	24.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.00	22.86	22.90	24.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.94	22.87	22.88	24.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.93	22.90	22.83	24.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.94	22.88	22.90	24.5



<FR1 n78_HPUE_Ant 6_Index 2>

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		5.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		4.92		
100	PI/2 BPSK	1	137		4.75		5.0
100	PI/2 BPSK	1	271		4.59		
100	PI/2 BPSK	135	0		4.74		
100	PI/2 BPSK	135	69		4.77		5.0
100	PI/2 BPSK	135	138		4.54		5.0
100	PI/2 BPSK	270	0		4.76		
100	QPSK	1	1		4.80		
100	QPSK	1	137		4.65		5.0
100	QPSK	1	271		4.54		
100	QPSK	135	0		4.77		
100	QPSK	135	69		4.71		5.0
100	QPSK	135	138		4.57		
100	QPSK	270	0		4.75		
100	16QAM	1	1		4.90		5.0
100	64QAM	1	1		4.91		5.0
100	256QAM	1	1		4.90		5.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	4.81	4.85	4.75	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	4.80	4.86	4.79	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	4.87	4.87	4.83	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	4.88	4.87	4.80	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	4.84	4.90	4.79	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	4.85	4.85	4.79	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	4.79	4.86	4.75	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	4.85	4.88	4.79	



<FR1 n78_HPUE_Ant 6_Index 3>

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		12.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		12.62		
100	PI/2 BPSK	1	137		12.45		12.7
100	PI/2 BPSK	1	271		12.29		
100	PI/2 BPSK	135	0		12.44		
100	PI/2 BPSK	135	69		12.47		12.7
100	PI/2 BPSK	135	138		12.24		12.7
100	PI/2 BPSK	270	0		12.46		
100	QPSK	1	1		12.50		
100	QPSK	1	137		12.35		12.7
100	QPSK	1	271		12.24		
100	QPSK	135	0		12.47		
100	QPSK	135	69		12.41		12.7
100	QPSK	135	138		12.27		
100	QPSK	270	0		12.45		
100	16QAM	1	1		12.60		12.7
100	64QAM	1	1		12.61		12.7
100	256QAM	1	1		12.60		12.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.56	12.53	12.57	12.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.55	12.57	12.54	12.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.50	12.60	12.54	12.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.48	12.58	12.59	12.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.56	12.53	12.56	12.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.48	12.57	12.55	12.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.57	12.55	12.58	12.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.50	12.56	12.51	12.7

15. WiFi/Bluetooth Output Power (Unit: dBm)

General Note:

1. For 2.4GHz each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
2. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is $< 1.6\text{W/kg}$ and SAR peak to location ratio ≤ 0.04 , no additional SAR measurements for 2.4GHz MIMO.
3. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, additional output power measurements were not necessary.
4. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
5. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
6. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
7. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. 18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is $\leq 0.4\text{ W/kg}$, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is $> 0.4\text{ W/kg}$, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is $\leq 0.8\text{ W/kg}$ or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is $> 0.8\text{ W/kg}$, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is $\leq 1.2\text{ W/kg}$ or all required channels are tested.
8. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
9. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
10. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
11. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel



P-Sensor Off Non-DBS / DBS

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	23.00	23.00	98.20	22.40	23.00	98.20	23.00	23.00	22.40	23.00	25.72	26.00	98.20
		6	2437	22.60	23.00		22.10	23.00		22.60	23.00	22.10	23.00	25.37	26.00	
		11	2462	22.00	23.00		21.70	23.00		22.00	23.00	21.70	23.00	25.37	26.00	
	802.11g 6Mbps	1	2412	Not Required	19.00	Not Required	Not Required	19.00	Not Required	Not Required	19.00	Not Required	19.00	Not Required	22.00	Not Required
		6	2437		21.50			21.50			21.50		21.50		24.50	
		11	2462		18.00			18.00			18.00		18.00		21.00	
	802.11n-HT20 MCS0	1	2412		18.00			18.00			18.00		18.00		21.00	
		6	2437		21.00			21.00			21.00		21.00		24.00	
		11	2462		18.00			18.00			18.00		18.00		21.00	
	802.11n-HT40 MCS0	3	2422		18.00			18.00			18.00		18.00		21.00	
		6	2437		19.00			19.00			19.00		19.00		22.00	
		9	2452		18.00			18.00			18.00		18.00		21.00	
	802.11ac-VHT20 MCS0	1	2412		18.00			18.00			18.00		18.00		21.00	
		6	2437		21.00			21.00			21.00		21.00		24.00	
		11	2462		18.00			18.00			18.00		18.00		21.00	
	802.11ac-VHT40 MCS0	3	2422		18.00			18.00			18.00		18.00		21.00	
		6	2437		19.00			19.00			19.00		19.00		22.00	
		9	2452		18.00			18.00			18.00		18.00		21.00	
	802.11ax-HE20 MCS0	1	2412		18.00			18.00			18.00		18.00		21.00	
		6	2437		21.00			21.00			21.00		21.00		24.00	
		11	2462		18.00			18.00			18.00		18.00		21.00	
	802.11ax-HE40 MCS0	3	2422		18.00			18.00			18.00		18.00		21.00	
		6	2437		19.00			19.00			19.00		19.00		22.00	
		9	2452		18.00			18.00			18.00		18.00		21.00	



				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	17.50	Not Required	Not Required	17.50	Not Required	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		40	5200													
		44	5220													
		48	5240													
	802.11n-HT20 MCS0	36	5180													
		40	5200													
		44	5220													
		48	5240													
	802.11n-HT40 MCS0	38	5190													
		46	5230													
	802.11ac-VHT20 MCS0	36	5180													
		40	5200													
		44	5220													
		48	5240													
	802.11ac-VHT40 MCS0	38	5190													
		46	5230													
	802.11ac-VHT80 MCS0	42	5210													
	802.11ax-HE20 MCS0	36	5180													
		40	5200													
		44	5220													
		48	5240													
	802.11ax-HE40 MCS0	38	5190													
		46	5230													
	802.11ax-HE80 MCS0	42	5210													



FCC SAR TEST REPORT

Report No. : FA371211A

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	17.50	Not Required	Not Required	17.50	Not Required	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		56	5280		17.50			17.50			17.50		17.50		20.50	
		60	5300		17.50			17.50			17.50		17.50		20.50	
		64	5320		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT20 MCS0	52	5260		17.50			17.50			17.50		17.50		20.50	
		56	5280		17.50			17.50			17.50		17.50		20.50	
		60	5300		17.50			17.50			17.50		17.50		20.50	
		64	5320		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT40 MCS0	54	5270		17.50			17.50		17.00	17.50	17.20	17.50	20.11	20.50	100.00
		62	5310		17.50			17.50		16.30	17.50	16.30	17.50	19.31	20.50	
	802.11ac-VHT20 MCS0	52	5260		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		56	5280		17.50			17.50			17.50		17.50		20.50	
		60	5300		17.50			17.50			17.50		17.50		20.50	
		64	5320		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT40 MCS0	54	5270		17.50			17.50			17.50		17.50		20.50	
		62	5310		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT80 MCS0	58	5290		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT160 MCS0	50	5250		13.5			13.5			13.5		13.5		16.5	
	802.11ax-HE20 MCS0	52	5260		17.50			17.50			17.50		17.50		20.50	
		56	5280		17.50			17.50			17.50		17.50		20.50	
		60	5300		17.50			17.50			17.50		17.50		20.50	
		64	5320		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE40 MCS0	54	5270		17.50			17.50			17.50		17.50		20.50	
		62	5310		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE80 MCS0	58	5290		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE160 MCS0	50	5250		13.5			13.5			13.5		13.5		16.5	



FCC SAR TEST REPORT

Report No. : FA371211A

	Mode	Channel	Frequency (MHz)	Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	17.50	Not Required	Not Required	17.50	Not Required	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		116	5580		17.50			17.50			17.50		17.50		20.50	
		124	5620		17.50			17.50			17.50		17.50		20.50	
		132	5660		17.50			17.50			17.50		17.50		20.50	
		144	5720		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT20 MCS0	100	5500		17.50			17.50			17.50		17.50		20.50	
		116	5580		17.50			17.50			17.50		17.50		20.50	
		124	5620		17.50			17.50			17.50		17.50		20.50	
		132	5660		17.50			17.50			17.50		17.50		20.50	
		144	5720		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT40 MCS0	102	5510		16.50			16.50			16.50		16.50		19.50	
		110	5550		17.50			17.50			17.50		17.50		20.50	
		126	5630		17.50			17.50			17.50		17.50		20.50	
		134	5670		17.00			17.00			17.00		17.00		20.00	
		142	5710		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT20 MCS0	100	5500		17.50			17.50			17.50		17.50		20.50	
		116	5580		17.50			17.50			17.50		17.50		20.50	
		124	5620		17.50			17.50			17.50		17.50		20.50	
		132	5660		17.50			17.50			17.50		17.50		20.50	
		144	5720		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT40 MCS0	102	5510		16.50			16.50			16.50		16.50		19.50	
		110	5550		17.50			17.50			17.50		17.50		20.50	
		126	5630		17.50			17.50			17.50		17.50		20.50	
		134	5670		17.00			17.00			17.00		17.00		20.00	
		142	5710		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT80 MCS0	106	5530		16.00			16.00			15.50	16.00	15.70	16.00	18.61	19.00
		122	5610		17.50			17.50			16.70	17.50	15.90	17.50	19.33	20.50
		138	5690		17.50			17.50			16.80	17.50	17.20	17.50	20.01	20.50
	802.11ac-VHT160 MCS0	114	5570		15.50			15.50			Not Required	15.50	Not Required	15.50	Not Required	18.50
	802.11ax-HE20 MCS0	100	5500		17.50			17.50				17.50		17.50		20.50
		116	5580		17.50			17.50				17.50		17.50		20.50
		124	5620		17.50			17.50				17.50		17.50		20.50
		132	5660		17.50			17.50				17.50		17.50		20.50
		144	5720		17.50			17.50				17.50		17.50		20.50
	802.11ax-HE40 MCS0	102	5510		16.50			16.50				16.50		16.50		19.50
		110	5550		17.50			17.50				17.50		17.50		20.50
		126	5630		17.50			17.50				17.50		17.50		20.50
		134	5670		17.00			17.00				17.00		17.00		20.00
		142	5710		17.50			17.50				17.50		17.50		20.50
	802.11ax-HE80 MCS0	106	5530		16.00			16.00				16.00		16.00		19.00
		122	5610		17.50			17.50				17.50		17.50		20.50
		138	5690		17.50			17.50				17.50		17.50		20.50
	802.11ax-HE160 MCS0	114	5570		15.50			15.50				15.50		15.50		18.50



FCC SAR TEST REPORT

Report No. : FA371211A

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	17.50	Not Required	Not Required	17.50	Not Required	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT20 MCS0	149	5745		17.50			17.50			17.50		17.50		20.50	
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT40 MCS0	151	5755		17.50			17.50		17.10	17.50	17.20	17.50	20.16	20.50	99.70
		159	5795		17.50			17.50		16.90	17.50	17.10	17.50	20.01	20.50	
	802.11ac-VHT20 MCS0	149	5745		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT40 MCS0	151	5755		17.50			17.50			17.50		17.50		20.50	
		159	5795		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT80 MCS0	155	5775		17.50			17.50		16.90	17.50	17.10	17.50	20.01	20.50	99.40
	802.11ax-HE20 MCS0	149	5745		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE40 MCS0	151	5755		17.50			17.50			17.50		17.50		20.50	
		159	5795		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE80 MCS0	155	5775		17.50			17.50			17.50		17.50		20.50	

**P-Sensor On Non-DBS**

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	17.50	17.50	98.20	17.10	17.50	98.20	17.40	17.50	17.30	17.50	20.36	20.50	98.20
		6	2437	17.40	17.50		17.10	17.50		17.20	17.50	17.20	17.50	20.20	20.50	
		11	2462	17.20	17.50		17.10	17.50		17.20	17.50	17.10	17.50	20.16	20.50	
	802.11g 6Mbps	1	2412	Not Required	17.50	Not Required	Not Required	17.50	Not Required	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		6	2437		17.50			17.50			17.50		17.50		20.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		17.50			17.50			17.50		17.50		20.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT40 MCS0	3	2422		17.50			17.50			17.50		17.50		20.50	
		6	2437		17.50			17.50			17.50		17.50		20.50	
		9	2452		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		17.50			17.50			17.50		17.50		20.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT40 MCS0	3	2422		17.50			17.50			17.50		17.50		20.50	
		6	2437		17.50			17.50			17.50		17.50		20.50	
		9	2452		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		17.50			17.50			17.50		17.50		20.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE40 MCS0	3	2422		17.50			17.50			17.50		17.50		20.50	
		6	2437		17.50			17.50			17.50		17.50		20.50	
		9	2452		17.50			17.50			17.50		17.50		20.50	



FCC SAR TEST REPORT

Report No. : FA371211A

	Mode	Channel	Frequency (MHz)	Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	12.00	Not Required	Not Required	12.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		40	5200													
		44	5220													
		48	5240													
	802.11n-HT20 MCS0	36	5180													
		40	5200													
		44	5220													
		48	5240													
	802.11n-HT40 MCS0	38	5190													
		46	5230													
	802.11ac-VHT20 MCS0	36	5180													
		40	5200													
		44	5220													
		48	5240													
	802.11ac-VHT40 MCS0	38	5190													
		46	5230													
	802.11ac-VHT80 MCS0	42	5210													
	802.11ax-HE20 MCS0	36	5180													
		40	5200													
		44	5220													
		48	5240													
	802.11ax-HE40 MCS0	38	5190													
		46	5230													
	802.11ax-HE80 MCS0	42	5210													



FCC SAR TEST REPORT

Report No. : FA371211A

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	12.00	Not Required	Not Required	12.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		56	5280													
		60	5300													
		64	5320													
	802.11n-HT20 MCS0	52	5260													
		56	5280													
		60	5300													
		64	5320													
	802.11n-HT40 MCS0	54	5270													
		62	5310													
	802.11ac-VHT20 MCS0	52	5260													
		56	5280													
		60	5300													
		64	5320													
	802.11ac-VHT40 MCS0	54	5270													
		62	5310													
	802.11ac-VHT80 MCS0	58	5290							11.80	12.00	11.90	12.00	14.86	15.00	99.40
	802.11ac-VHT160 MCS0	50	5250							11.90	12.00	11.90	12.00	14.91	15.00	99.2
	802.11ax-HE20 MCS0	52	5260							Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		56	5280													
		60	5300													
		64	5320													
	802.11ax-HE40 MCS0	54	5270													
		62	5310													
	802.11ax-HE80 MCS0	58	5290													
	802.11ax-HE160 MCS0	50	5250													



FCC SAR TEST REPORT

Report No. : FA371211A

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	11.00	Not Required	Not Required	11.00	Not Required	Not Required	Not Required	11.00	Not Required	Not Required	14.00	Not Required	
		116	5580		11.00			11.00				11.00			14.00		
		124	5620		11.00			11.00				11.00			14.00		
		132	5660		11.00			11.00				11.00			14.00		
		144	5720		11.00			11.00				11.00			14.00		
	802.11n-HT20 MCS0	100	5500		11.00			11.00				11.00			14.00		
		116	5580		11.00			11.00				11.00			14.00		
		124	5620		11.00			11.00				11.00			14.00		
		132	5660		11.00			11.00				11.00			14.00		
		144	5720		11.00			11.00				11.00			14.00		
	802.11n-HT40 MCS0	102	5510		11.00			11.00				11.00			14.00		
		110	5550		11.00			11.00				11.00			14.00		
		126	5630		11.00			11.00				11.00			14.00		
		134	5670		11.00			11.00				11.00			14.00		
		142	5710		11.00			11.00				11.00			14.00		
	802.11ac-VHT20 MCS0	100	5500		11.00			11.00				11.00			14.00		
		116	5580		11.00			11.00				11.00			14.00		
		124	5620		11.00			11.00				11.00			14.00		
		132	5660		11.00			11.00				11.00			14.00		
		144	5720		11.00			11.00				11.00			14.00		
	802.11ac-VHT40 MCS0	102	5510		11.00			11.00				11.00			14.00		
		110	5550		11.00			11.00				11.00			14.00		
		126	5630		11.00			11.00				11.00			14.00		
		134	5670		11.00			11.00				11.00			14.00		
		142	5710		11.00			11.00				11.00			14.00		
	802.11ac-VHT80 MCS0	106	5530		11.00			11.00			10.70	11.00	10.90	11.00	13.81	14.00	99.40
		122	5610		11.00			11.00			10.70	11.00	10.70	11.00	13.71	14.00	
		138	5690		11.00			11.00			10.90	11.00	11.00	11.00	13.96	14.00	
	802.11ac-VHT160 MCS0	114	5570		11.00			11.00			10.80	11.00	10.80	11.00	13.81	14.00	99.20
	802.11ax-HE20 MCS0	100	5500		11.00			11.00			Not Required	11.00	Not Required	11.00	Not Required	14.00	Not Required
		116	5580		11.00			11.00				11.00		14.00			
		124	5620		11.00			11.00				11.00		14.00			
		132	5660		11.00			11.00				11.00		14.00			
		144	5720		11.00			11.00				11.00		14.00			
	802.11ax-HE40 MCS0	102	5510		11.00			11.00				11.00		14.00			
		110	5550		11.00			11.00				11.00		14.00			
		126	5630		11.00			11.00				11.00		14.00			
		134	5670		11.00			11.00				11.00		14.00			
		142	5710		11.00			11.00				11.00		14.00			
	802.11ax-HE80 MCS0	106	5530		11.00			11.00				11.00		14.00			
		122	5610		11.00			11.00				11.00		14.00			
		138	5690		11.00			11.00				11.00		14.00			
	802.11ax-HE160 MCS0	114	5570		11.00			11.00				11.00		14.00			



FCC SAR TEST REPORT

Report No. : FA371211A

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	10.50	Not Required	Not Required	10.50	Not Required	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
		157	5785		10.50			10.50			10.50		10.50		13.50	
		165	5825		10.50			10.50			10.50		10.50		13.50	
	802.11n-HT20 MCS0	149	5745		10.50			10.50			10.50		10.50		13.50	
		157	5785		10.50			10.50			10.50		10.50		13.50	
		165	5825		10.50			10.50			10.50		10.50		13.50	
	802.11n-HT40 MCS0	151	5755		10.50			10.50		10.20	10.50	10.20	10.50	13.20	13.50	99.70
		159	5795		10.50			10.50		10.20	10.50	10.30	10.50	13.26	13.50	
	802.11ac-VHT20 MCS0	149	5745		10.50			10.50		Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
		157	5785		10.50			10.50			10.50		10.50		13.50	
		165	5825		10.50			10.50			10.50		10.50		13.50	
	802.11ac-VHT40 MCS0	151	5755		10.50			10.50			10.50		10.50		13.50	
		159	5795		10.50			10.50			10.50		10.50		13.50	
	802.11ac-VHT80 MCS0	155	5775		10.50			10.50		10.00	10.50	10.00	10.50	13.00	13.50	99.40
	802.11ax-HE20 MCS0	149	5745		10.50			10.50		Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
		157	5785		10.50			10.50			10.50		10.50		13.50	
		165	5825		10.50			10.50			10.50		10.50		13.50	
	802.11ax-HE40 MCS0	151	5755		10.50			10.50			10.50		10.50		13.50	
		159	5795		10.50			10.50			10.50		10.50		13.50	
	802.11ax-HE80 MCS0	155	5775		10.50			10.50			10.50		10.50		13.50	



P-Sensor On DBS

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.00	15.00	98.20	14.50	15.00	98.20	14.70	15.00	14.60	15.00	17.66	18.00	98.20
		6	2437	14.90	15.00		14.50	15.00		14.70	15.00	14.60	15.00	17.66	18.00	
		11	2462	14.70	15.00		14.30	15.00		14.40	15.00	14.50	15.00	17.46	18.00	
	802.11g 6Mbps	1	2412	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required
		6	2437		15.00			15.00			15.00		15.00		18.00	
		11	2462		15.00			15.00			15.00		15.00		18.00	
	802.11n-HT20 MCS0	1	2412		15.00			15.00			15.00		15.00		18.00	
		6	2437		15.00			15.00			15.00		15.00		18.00	
		11	2462		15.00			15.00			15.00		15.00		18.00	
	802.11n-HT40 MCS0	3	2422		15.00			15.00			15.00		15.00		18.00	
		6	2437		15.00			15.00			15.00		15.00		18.00	
		9	2452		15.00			15.00			15.00		15.00		18.00	
	802.11ac-VHT20 MCS0	1	2412		15.00			15.00			15.00		15.00		18.00	
		6	2437		15.00			15.00			15.00		15.00		18.00	
		11	2462		15.00			15.00			15.00		15.00		18.00	
	802.11ac-VHT40 MCS0	3	2422		15.00			15.00			15.00		15.00		18.00	
		6	2437		15.00			15.00			15.00		15.00		18.00	
		9	2452		15.00			15.00			15.00		15.00		18.00	
	802.11ax-HE20 MCS0	1	2412		15.00			15.00			15.00		15.00		18.00	
		6	2437		15.00			15.00			15.00		15.00		18.00	
		11	2462		15.00			15.00			15.00		15.00		18.00	
	802.11ax-HE40 MCS0	3	2422		15.00			15.00			15.00		15.00		18.00	
		6	2437		15.00			15.00			15.00		15.00		18.00	
		9	2452		15.00			15.00			15.00		15.00		18.00	



FCC SAR TEST REPORT

Report No. : FA371211A

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	9.50	Not Required	Not Required	9.50	Not Required	Not Required	9.5	Not Required	9.5	Not Required	12.5	Not Required
		40	5200		9.50			9.50			9.5		9.5		12.5	
		44	5220		9.50			9.50			9.5		9.5		12.5	
		48	5240		9.50			9.50			9.5		9.5		12.5	
	802.11n-HT20 MCS0	36	5180		9.50			9.50			9.5		9.5		12.5	
		40	5200		9.50			9.50			9.5		9.5		12.5	
		44	5220		9.50			9.50			9.5		9.5		12.5	
		48	5240		9.50			9.50			9.5		9.5		12.5	
	802.11n-HT40 MCS0	38	5190		9.50			9.50			9.5		9.5		12.5	
		46	5230		9.50			9.50			9.5		9.5		12.5	
	802.11ac-VHT20 MCS0	36	5180		9.50			9.50			9.5		9.5		12.5	
		40	5200		9.50			9.50			9.5		9.5		12.5	
		44	5220		9.50			9.50			9.5		9.5		12.5	
		48	5240		9.50			9.50			9.5		9.5		12.5	
	802.11ac-VHT40 MCS0	38	5190		9.50			9.50			9.5		9.5		12.5	
		46	5230		9.50			9.50			9.5		9.5		12.5	
	802.11ac-VHT80 MCS0	42	5210		9.50			9.50			9.5		9.5		12.5	
	802.11ax-HE20 MCS0	36	5180		9.50			9.50			9.5		9.5		12.5	
		40	5200		9.50			9.50			9.5		9.5		12.5	
		44	5220		9.50			9.50			9.5		9.5		12.5	
		48	5240		9.50			9.50			9.5		9.5		12.5	
	802.11ax-HE40 MCS0	38	5190		9.50			9.50			9.5		9.5		12.5	
		46	5230		9.50			9.50			9.5		9.5		12.5	
	802.11ax-HE80 MCS0	42	5210		9.50			9.50			9.5		9.5		12.5	



FCC SAR TEST REPORT

Report No. : FA371211A

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	9.50	Not Required	Not Required	9.50	Not Required	Not Required	9.5	Not Required	9.5	Not Required	12.5	Not Required
		56	5280		9.50			9.50			9.5		9.5		12.5	
		60	5300		9.50			9.50			9.5		9.5		12.5	
		64	5320		9.50			9.50			9.5		9.5		12.5	
	802.11n-HT20 MCS0	52	5260		9.50			9.50			9.5		9.5		12.5	
		56	5280		9.50			9.50			9.5		9.5		12.5	
		60	5300		9.50			9.50			9.5		9.5		12.5	
		64	5320		9.50			9.50			9.5		9.5		12.5	
	802.11n-HT40 MCS0	54	5270		9.50			9.50			9.5		9.5		12.5	
		62	5310		9.50			9.50			9.5		9.5		12.5	
	802.11ac-VHT20 MCS0	52	5260		9.50			9.50			9.5		9.5		12.5	
		56	5280		9.50			9.50			9.5		9.5		12.5	
		60	5300		9.50			9.50			9.5		9.5		12.5	
		64	5320		9.50			9.50			9.5		9.5		12.5	
	802.11ac-VHT40 MCS0	54	5270		9.50			9.50			9.5		9.5		12.5	
		62	5310		9.50			9.50			9.5		9.5		12.5	
	802.11ac-VHT80 MCS0	58	5290		9.50			9.50			9.5		9.5		12.5	
	802.11ac-VHT160 MCS0	50	5250		9.5			9.5		9.3	9.5	9.3	9.5	12.3	12.5	99.2
	802.11ax-HE20 MCS0	52	5260		9.50			9.50		Not Required	9.5	Not Required	9.5	Not Required	12.5	Not Required
		56	5280		9.50			9.50			9.5		9.5		12.5	
		60	5300		9.50			9.50			9.5		9.5		12.5	
		64	5320		9.50			9.50			9.5		9.5		12.5	
	802.11ax-HE40 MCS0	54	5270		9.50			9.50			9.5		9.5		12.5	
		62	5310		9.50			9.50			9.5		9.5		12.5	
	802.11ax-HE80 MCS0	58	5290		9.50			9.50			9.5		9.5		12.5	
	802.11ax-HE160 MCS0	50	5250		9.5			9.5			9.5		9.5		12.5	



FCC SAR TEST REPORT

Report No. : FA371211A

				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %			
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	8.50	Not Required	Not Required	8.50	Not Required	Not Required	8.50	8.50	8.50	Not Required	11.50	Not Required			
		116	5580		8.50			8.50			8.50	11.50							
		124	5620		8.50			8.50			8.50	11.50							
		132	5660		8.50			8.50			8.50	11.50							
		144	5720		8.50			8.50			8.50	11.50							
	802.11n-HT20 MCS0	100	5500		8.50			8.50			8.50	8.50	11.50						
		116	5580		8.50			8.50			8.50	8.50	11.50						
		124	5620		8.50			8.50			8.50	8.50	11.50						
		132	5660		8.50			8.50			8.50	8.50	11.50						
		144	5720		8.50			8.50			8.50	8.50	11.50						
	802.11n-HT40 MCS0	102	5510		8.50			8.50			8.50	8.50	11.50						
		110	5550		8.50			8.50			8.50	8.50	11.50						
		126	5630		8.50			8.50			8.50	8.50	11.50						
		134	5670		8.50			8.50			8.50	8.50	11.50						
		142	5710		8.50			8.50			8.50	8.50	11.50						
	802.11ac-VHT20 MCS0	100	5500		8.50			8.50			8.50	8.50	11.50						
		116	5580		8.50			8.50			8.50	8.50	11.50						
		124	5620		8.50			8.50			8.50	8.50	11.50						
		132	5660		8.50			8.50			8.50	8.50	11.50						
		144	5720		8.50			8.50			8.50	8.50	11.50						
	802.11ac-VHT40 MCS0	102	5510		8.50			8.50			8.50	8.50	11.50						
		110	5550		8.50			8.50			8.50	8.50	11.50						
		126	5630		8.50			8.50			8.50	8.50	11.50						
		134	5670		8.50			8.50			8.50	8.50	11.50						
		142	5710		8.50			8.50			8.50	8.50	11.50						
	802.11ac-VHT80 MCS0	106	5530		8.50			8.50			8.50	8.50	11.50						
		122	5610		8.50			8.50			8.50	8.50	11.50						
		138	5690		8.50			8.50			8.50	8.50	11.50						
	802.11ac-VHT160 MCS0	114	5570		8.50			8.50			8.30	8.50	8.40		8.50		11.36	11.50	99.20
	802.11ax-HE20 MCS0	100	5500		8.50			8.50			Not Required	8.50	Not Required		8.50		Not Required	11.50	Not Required
		116	5580		8.50			8.50				8.50			11.50				
		124	5620		8.50			8.50				8.50			11.50				
		132	5660		8.50			8.50				8.50			11.50				
		144	5720		8.50			8.50				8.50			11.50				
	802.11ax-HE40 MCS0	102	5510		8.50			8.50				8.50			8.50			11.50	
		110	5550		8.50			8.50				8.50			8.50			11.50	
		126	5630		8.50			8.50				8.50			8.50			11.50	
		134	5670		8.50			8.50				8.50			8.50			11.50	
		142	5710		8.50			8.50				8.50			8.50			11.50	
	802.11ax-HE80 MCS0	106	5530		8.50			8.50				8.50			8.50			11.50	
		122	5610		8.50			8.50				8.50			8.50			11.50	
		138	5690		8.50			8.50				8.50			8.50			11.50	
	802.11ax-HE160 MCS0	114	5570		8.50			8.50				8.50			8.50			11.50	



FCC SAR TEST REPORT

Report No. : FA371211A

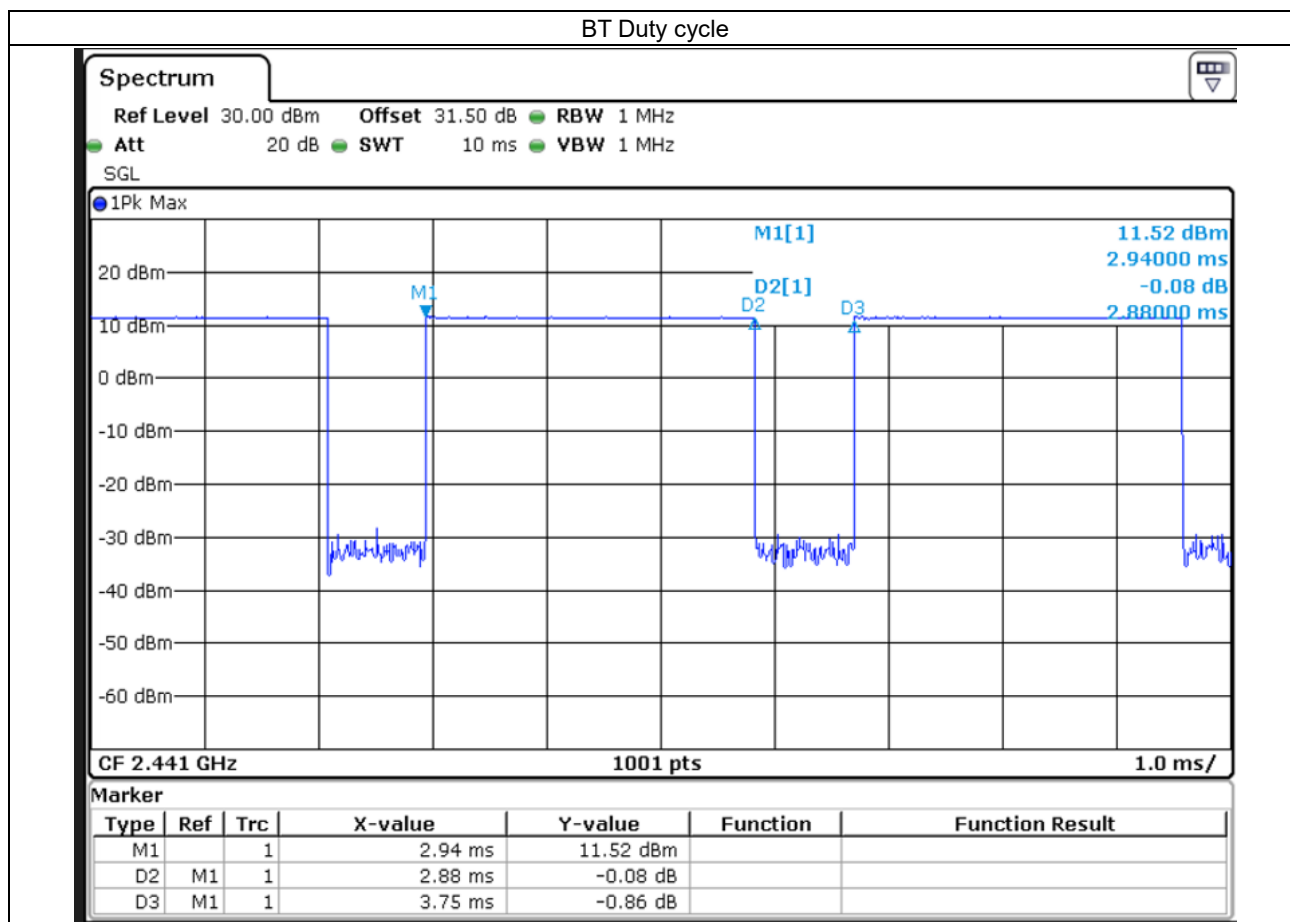
				Ant 7			Ant 8			Ant 7+8 (7)		Ant 7+8 (8)		Ant 7+8		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	8.50	Not Required	Not Required	8.50	Not Required	Not Required	8.50	Not Required	8.50	Not Required	11.50	Not Required
		157	5785		8.50			8.50			8.50		8.50		11.50	
		165	5825		8.50			8.50			8.50		8.50		11.50	
	802.11n-HT20 MCS0	149	5745		8.50			8.50			8.50		8.50		11.50	
		157	5785		8.50			8.50			8.50		8.50		11.50	
		165	5825		8.50			8.50			8.50		8.50		11.50	
	802.11n-HT40 MCS0	151	5755		8.50			8.50			8.50		8.50		11.50	
		159	5795		8.50			8.50			8.50		8.50		11.50	
	802.11ac-VHT20 MCS0	149	5745		8.50			8.50			8.50		8.50		11.50	
		157	5785		8.50			8.50			8.50		8.50		11.50	
		165	5825		8.50			8.50			8.50		8.50		11.50	
	802.11ac-VHT40 MCS0	151	5755		8.50			8.50			8.50		8.50		11.50	
		159	5795		8.50			8.50			8.50		8.50		11.50	
	802.11ac-VHT80 MCS0	155	5775		8.50			8.50		8.10	8.50	8.30	8.50	11.20	11.50	99.40
	802.11ax-HE20 MCS0	149	5745		8.50			8.50		Not Required	8.50	Not Required	8.50	Not Required	11.50	Not Required
		157	5785		8.50			8.50			8.50		8.50		11.50	
		165	5825		8.50			8.50			8.50		8.50		11.50	
	802.11ax-HE40 MCS0	151	5755		8.50			8.50			8.50		8.50		11.50	
		159	5795		8.50			8.50			8.50		8.50		11.50	
	802.11ax-HE80 MCS0	155	5775		8.50			8.50			8.50		8.50		11.50	

<2.4GHz Bluetooth>

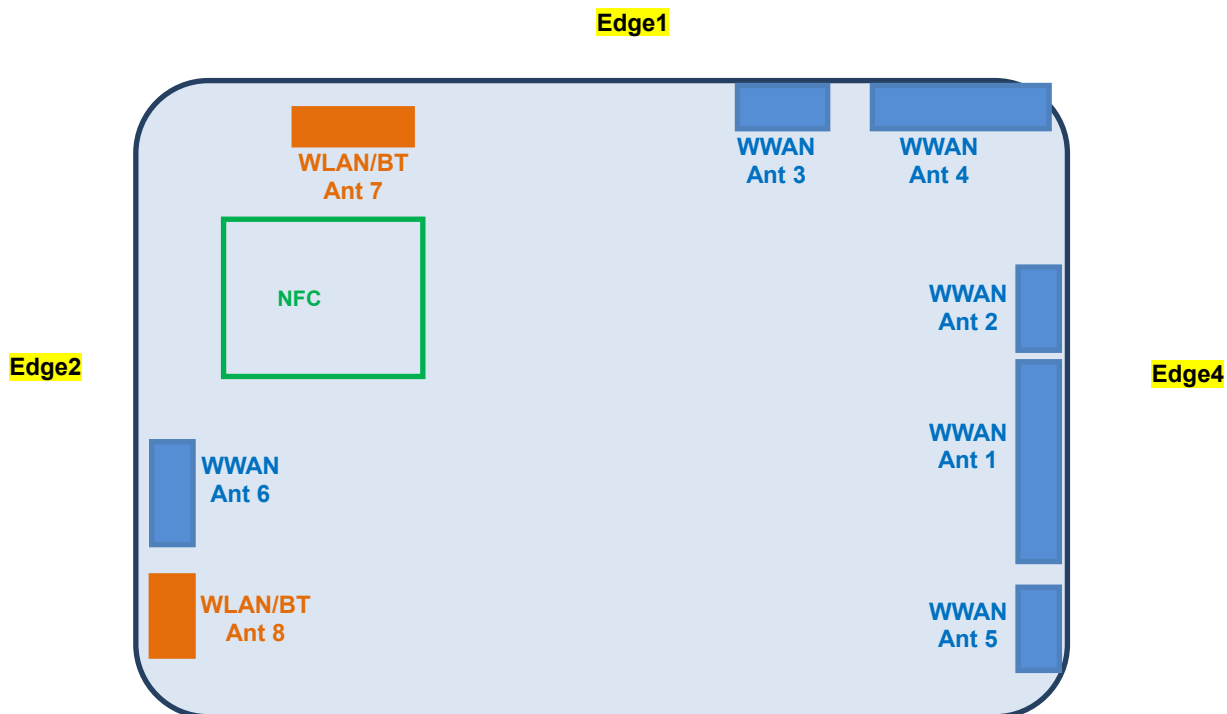
	Mode	Channel	Frequency (MHz)	Ant 7			Ant 8		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
Bluetooth	BR / EDR 1Mbps	0	2402	5.49	6.00	76.80	4.86	5.00	76.80
		39	2441	5.67	6.00		4.76	5.00	
		78	2480	4.42	6.00		4.95	5.00	
	BR / EDR 2Mbps	0	2402	3.12	4.00	76.80	5.47	6.00	76.80
		39	2441	3.60	4.00		5.45	6.00	
		78	2480	2.49	4.00		5.52	6.00	
	BR / EDR 3Mbps	0	2402	3.47	4.00	77.07	5.52	6.00	77.07
		39	2441	3.62	4.00		5.36	6.00	
		78	2480	2.64	4.00		5.70	6.00	
	LE 1Mbps	0	2402	4.10	4.50	62.30	3.20	4.00	62.30
		19	2440	4.40	4.50		3.00	4.00	
		39	2480	2.80	4.50		3.20	4.00	
	LE 2Mbps	0	2402	4.00	4.50	32.80	3.10	4.00	32.80
		19	2440	4.40	4.50		3.00	4.00	
		39	2480	2.80	4.50		3.20	4.00	

General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.8% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.



16. Antenna Location


Edge3
Back View

The separation distance for antenna to edge :

Antenna	To Edge1 (mm)	To Edge2 (mm)	To Edge3 (mm)	To Edge4 (mm)
WWAN Antenna 1	65	261	82	5
WWAN Antenna 2	48	261	128	5
WWAN Antenna 3	5	195	174	48
WWAN Antenna 4	5	213	174	5
WWAN Antenna 5	144	261	28	5
WWAN Antenna 6	95	5	52	256
WLAN/BT Antenna 7	5	30	174	195
WLAN/BT Antenna 8	144	5	15	256
WLAN/BT Antenna 7+8	5	5	15	195
NFC	< 25 mm	< 25 mm	> 25mm	> 25mm

<SAR test exclusion table>
General Note:

1. The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
2. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
3. 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.
4. 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.
5. 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
6. 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
 - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

ANT 1

Exposure Position	Wireless Interface	WCDMA Band V	WCDMA Band IV	WCDMA Band II	LTE Band 71 / FR1 n71	LTE Band 12 / FR1 n12	LTE Band 13 / FR1 n13	LTE Band 14 / FR1 n14	LTE Band 17	LTE Band 5 / FR1 n5	LTE Band 26 / FR1 n26	LTE Band 4	LTE Band 66 / FR1 n66	LTE Band 2 / FR1 n2	LTE Band 25 / FR1 n25	FR1 n5	FR1 n26	LTE Band 38	LTE Band 41	LTE Band 42	LTE Band 48	LTE Band n77	LTE Band n78
	Calculated Frequency (MHz)	846	1750	1907	695	715	784	795	713	848	848	1754	1779	1909	1914	848	848	2617	2687	3597	3697	3650	3650
	Maximum power (dBm)	25.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	25.5	25.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	27.0	24.5	22.0	21.7	27.0
	Maximum rated power(mW)	316.23	281.84	281.84	281.84	281.84	281.84	281.84	281.84	354.81	354.81	281.84	281.84	281.84	281.84	281.84	281.84	281.84	501.19	281.84	158.49	147.91	501.19
Bottom Face	Separation distance(mm)	5.0																					
	exclusion threshold	58.2	74.6	77.8	47.0	47.7	49.9	50.3	47.6	65.4	65.4	74.7	75.2	77.9	78.0	51.9	51.9	91.2	164.3	106.9	61.0	56.5	191.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	65.0																					
	exclusion threshold	248.0	263.0	259.0	249.0	249.0	248.0	248.0	249.0	248.0	248.0	263.0	262.0	259.0	258.0	313.0	313.0	243.0	242.0	229.0	228.0	229.0	229.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Yes
Edge 2	Separation distance(mm)	261.0																					
	exclusion threshold	1353.0	2223.0	2219.0	1158.0	1183.0	1272.0	1287.0	1181.0	1356.0	1356.0	2223.0	2222.0	2219.0	2218.0	2273.0	2273.0	2203.0	2202.0	2189.0	2188.0	2189.0	2189.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 3	Separation distance(mm)	82.0																					
	exclusion threshold	344.0	433.0	429.0	328.0	330.0	337.0	338.0	330.0	344.0	344.0	433.0	432.0	429.0	428.0	483.0	483.0	413.0	412.0	399.0	398.0	399.0	399.0
	Testing required?	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	Yes	No	No	No	No	Yes
Edge 4	Separation distance(mm)	5.0																					
	exclusion threshold	58.2	74.6	77.8	47.0	47.7	49.9	50.3	47.6	65.4	65.4	74.7	75.2	77.9	78.0	51.9	51.9	91.2	164.3	106.9	61.0	56.5	191.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

ANT 2

Exposure Position	Wireless Interface	LTE Band 7 / FR1 n7	LTE Band 38 / FR1 n38	LTE Band 41 / FR1 n41	FR1 n77	FR1 n78
	Calculated Frequency (MHz)	2567	2617	2687	3980	3800
	Maximum power (dBm)	14.7	16.7	18.3	10.5	10.5
	Maximum rated power(mW)	29.51	46.77	67.61	11.22	11.22
Bottom Face	Separation distance(mm)	5.0				
	exclusion threshold	90.3	91.2	164.3	191.5	191.5
	Testing required?	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	48.0				
	exclusion threshold	9.4	9.5	17.1	20.0	20.0
	Testing required?	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	261.0				
	exclusion threshold	2204.0	2203.0	2202.0	2189.0	2189.0
	Testing required?	No	No	No	No	No
Edge 3	Separation distance(mm)	128.0				
	exclusion threshold	874.0	873.0	872.0	859.0	859.0
	Testing required?	No	No	No	No	No
Edge 4	Separation distance(mm)	5.0				
	exclusion threshold	90.3	91.2	92.4	191.5	191.5
	Testing required?	Yes	Yes	Yes	Yes	Yes

ANT 3

Exposure Position	Wireless Interface	LTE Band 30 / FR1 n30	LTE Band 7 / FR1 n7	LTE Band 38 / FR1 n38	LTE Band 41 / FR1 n41	LTE Band 48 / FR1 n48	FR1 n77	FR1 n78
	Calculated Frequency (MHz)	2312	2567	2617	2687	3697	3980	3800
	Maximum power (dBm)	23.0	25.0	24.5	27.0	22.0	21.7	21.7
	Maximum rated power(mW)	199.53	316.23	281.84	501.19	158.49	147.91	147.91
Bottom Face	Separation distance(mm)	5.0						
	exclusion threshold	60.7	90.3	91.2	92.4	61.0	191.5	191.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	5.0						
	exclusion threshold	60.7	90.3	91.2	92.4	61.0	191.5	191.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	195.0						
	exclusion threshold	1549.0	1544.0	1543.0	1542.0	1528.0	1529.0	1529.0
	Testing required?	No	No	No	No	No	No	No
Edge 3	Separation distance(mm)	174.0						
	exclusion threshold	1339.0	1334.0	1333.0	1332.0	1318.0	1319.0	1319.0
	Testing required?	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	48.0						
	exclusion threshold	6.3	9.4	9.5	9.6	6.4	20.0	20.0
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes

ANT 4

Exposure Position	Wireless Interface	LTE Band 4	LTE Band 66 / FR1 n66	LTE Band 2 / FR1 n2	LTE Band 25 / FR1 n25
	Calculated Frequency (MHz)	1754	1779	1909	1914
	Maximum power (dBm)	24.5	24.5	24.5	24.5
	Maximum rated power(mW)	281.84	281.84	281.84	281.84
Bottom Face	Separation distance(mm)	5.0			
	exclusion threshold	74.7	75.2	77.9	78.0
	Testing required?	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	5.0			
	exclusion threshold	74.7	75.2	77.9	78.0
	Testing required?	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	213.0			
	exclusion threshold	1743.0	1742.0	1739.0	1738.0
	Testing required?	No	No	No	No
Edge 3	Separation distance(mm)	174.0			
	exclusion threshold	1353.0	1352.0	1349.0	1348.0
	Testing required?	No	No	No	No
Edge 4	Separation distance(mm)	5.0			
	exclusion threshold	74.7	75.2	77.9	78.0
	Testing required?	Yes	Yes	Yes	Yes

ANT 5

Exposure Position	Wireless Interface	FR1 41	FR1 n77	FR1 n78
	Calculated Frequency (MHz)	2687	3980	3800
	Maximum power (dBm)	13.8	12.0	12.0
	Maximum rated power(mW)	23.99	15.85	15.85
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	164.3	191.5	191.5
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	144.0		
	exclusion threshold	1032.0	1019.0	1019.0
	Testing required?	No	No	No
Edge 2	Separation distance(mm)	261.0		
	exclusion threshold	2202.0	2189.0	2189.0
	Testing required?	No	No	No
Edge 3	Separation distance(mm)	28.0		
	exclusion threshold	29.3	34.2	34.2
	Testing required?	Yes	Yes	Yes
Edge 4	Separation distance(mm)	5.0		
	exclusion threshold	164.3	191.5	191.5
	Testing required?	Yes	Yes	Yes

ANT 6

Exposure Position	Wireless Interface	FR1 41	FR1 n77	FR1 n78
	Calculated Frequency (MHz)	2687	3980	3800
	Maximum power (dBm)	23.5	25.0	25.0
	Maximum rated power(mW)	223.87	316.23	316.23
Bottom Face	Separation distance(mm)	5.0		
	exclusion threshold	92.4	191.5	191.5
	Testing required?	Yes	Yes	Yes
Edge 1	Separation distance(mm)	95.0		
	exclusion threshold	542.0	529.0	529.0
	Testing required?	No	No	No
Edge 2	Separation distance(mm)	5.0		
	exclusion threshold	92.4	191.5	191.5
	Testing required?	Yes	Yes	Yes
Edge 3	Separation distance(mm)	52.0		
	exclusion threshold	112.0	99.0	99.0
	Testing required?	Yes	Yes	Yes
Edge 4	Separation distance(mm)	256.0		
	exclusion threshold	2152.0	2139.0	2139.0
	Testing required?	No	No	No

ANT 7/ ANT 8/ ANT 7+8

Exposure Position	Wireless Interface	Bluetooth / 2.4GHz WLAN ANT 7	Bluetooth / 2.4GHz WLAN ANT 8	2.4GHz WLAN ANT 7+8	5GHz WLAN ANT 7+8	6GHz WLAN ANT 7+8
	Calculated Frequency (MHz)	2462	2462	2462	5825	6985
	Maximum power (dBm)	23.0	23.0	26.0	20.5	18.0
	Maximum rated power(mW)	199.53	199.53	398.11	112.20	63.10
Bottom Face	Separation distance(mm)	5.0	5.0	5.0	5.0	5.0
	exclusion threshold	62.6	62.6	124.9	54.2	59.3
	Testing required?	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	5.0	144.0	5.0	5.0	5.0
	exclusion threshold	62.6	1036.0	124.9	54.2	59.3
	Testing required?	Yes	No	Yes	Yes	Yes
Edge 2	Separation distance(mm)	30.0	5.0	5.0	5.0	5.0
	exclusion threshold	10.4	62.6	124.9	54.2	59.3
	Testing required?	Yes	Yes	Yes	Yes	Yes
Edge 3	Separation distance(mm)	174.0	15.0	15.0	15.0	15.0
	exclusion threshold	1336.0	20.9	41.6	18.1	19.8
	Testing required?	No	Yes	Yes	Yes	Yes
Edge 4	Separation distance(mm)	195.0	256.0	195.0	195.0	195.0
	exclusion threshold	1546.0	2156.0	1546.0	1512.0	1507.0
	Testing required?	No	No	No	No	No

17. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = 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.

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 $> \text{not } \frac{1}{2}$ 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 $> \text{not } \frac{1}{2}$ 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. 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.
 - g. The device support SRS antennas, i.e., the antenna(s) are used for receive and Sound Reference Signal transmission (SRS) only (not traffic transmission). Then the SAR measurement at Plimit for SRS dedicated antenna(s) was performed using FTM mode with CW modulation with 100% duty cycle(as SRS operates at very low duty cycle in online mode).

WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, WLAN5.2GHz SAR testing is not required when the WLAN5.3GHz band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WLAN5.2GHz band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. For 2.4GHz WLAN SAR testing was performed on single antenna RF power in SISO mode is larger or equal to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode.
6. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg and SAR peak to location ratio ≤ 0.04 , no additional SAR measurements for 2.4GHz MIMO.
7. For determination of the scaling factor for report SAR of 5/6GHz MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain
8. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

WLAN PD Note:

1. The WiFi 6E PD was performed according 2020 TCB workshop RF Exposure 5G RFX Policies Interim Procedures.
2. First, evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and using highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane).
3. Per Interim Procedures. The power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor
4. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
6. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
7. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
8. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

NFC Note:

1. NFC 13.56MHz antenna port is not available on the device to support conducted power measurement, therefore the measured results are referred to as reported SAR.
2. NFC SAR test tissue-simulating liquid parameter: refer to IEC/IEEE 62209-1528 2020.
3. NFC SAR testing is by test software with 100% duty cycle.

17.1 Body SAR
<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	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 1	RMC 12.2Kbps	Bottom Face	28mm	Battery 1	1	9400	1880	23.88	24.50	1.153	0.07	0.267	0.308
	WCDMA II_Ant 1	RMC 12.2Kbps	Edge 4	20mm	Battery 1	1	9400	1880	23.88	24.50	1.153	-0.02	0.552	0.637
	WCDMA II_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	9400	1880	16.90	17.50	1.148	0.19	0.978	1.123
01	WCDMA II_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	9262	1852.4	16.80	17.50	1.175	-0.05	0.984	1.156
	WCDMA II_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	9538	1907.6	16.81	17.50	1.172	-0.14	0.966	1.132
	WCDMA II_Ant 1	RMC 12.2Kbps	Edge 1	0mm	Battery 1	1	9400	1880	23.88	24.50	1.153	0.18	0.088	0.102
	WCDMA II_Ant 1	RMC 12.2Kbps	Edge 4	0mm	Battery 1	2&3	9400	1880	16.90	17.50	1.148	0.05	0.838	0.962
	WCDMA II_Ant 1	RMC 12.2Kbps	Edge 4	0mm	Battery 1	2&3	9262	1852.4	16.80	17.50	1.175	0.03	0.806	0.947
	WCDMA II_Ant 1	RMC 12.2Kbps	Edge 4	0mm	Battery 1	2&3	9538	1907.6	16.81	17.50	1.172	-0.06	0.788	0.924
	WCDMA II_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 2	2&3	9262	1852.4	16.80	17.50	1.175	-0.05	0.638	0.750
	WCDMA IV_Ant 1	RMC 12.2Kbps	Bottom Face	28mm	Battery 1	1	1413	1732.6	23.86	24.50	1.159	-0.1	0.389	0.451
	WCDMA IV_Ant 1	RMC 12.2Kbps	Edge 4	20mm	Battery 1	1	1413	1732.6	23.86	24.50	1.159	-0.01	0.799	0.926
	WCDMA IV_Ant 1	RMC 12.2Kbps	Edge 4	20mm	Battery 1	1	1312	1712.4	23.77	24.50	1.183	-0.15	0.763	0.903
	WCDMA IV_Ant 1	RMC 12.2Kbps	Edge 4	20mm	Battery 1	1	1513	1752.6	23.80	24.50	1.175	-0.08	0.782	0.919
	WCDMA IV_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	1413	1732.6	15.86	16.50	1.159	-0.16	0.947	1.097
	WCDMA IV_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	1312	1712.4	15.47	16.50	1.268	-0.06	0.835	1.058
02	WCDMA IV_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	1513	1752.6	15.80	16.50	1.175	0.08	0.987	1.160
	WCDMA IV_Ant 1	RMC 12.2Kbps	Edge 1	0mm	Battery 1	1	1413	1732.6	23.86	24.50	1.159	-0.1	0.048	0.056
	WCDMA IV_Ant 1	RMC 12.2Kbps	Edge 4	0mm	Battery 1	2&3	1413	1732.6	15.86	16.50	1.159	-0.05	0.856	0.992
	WCDMA IV_Ant 1	RMC 12.2Kbps	Edge 4	0mm	Battery 1	2&3	1312	1712.4	15.47	16.50	1.268	0.02	0.762	0.966
	WCDMA IV_Ant 1	RMC 12.2Kbps	Edge 4	0mm	Battery 1	2&3	1513	1752.6	15.80	16.50	1.175	0.04	0.806	0.947
	WCDMA IV_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 2	2&3	1513	1752.6	15.80	16.50	1.175	0.08	0.617	0.725
	WCDMA V_Ant 1	RMC 12.2Kbps	Bottom Face	28mm	Battery 1	1	4132	826.4	24.72	25.00	1.067	-0.16	0.266	0.284
	WCDMA V_Ant 1	RMC 12.2Kbps	Edge 4	20mm	Battery 1	1	4132	826.4	24.72	25.00	1.067	0.14	0.301	0.321
	WCDMA V_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	4132	826.4	20.15	20.50	1.084	0.09	0.922	1.000
03	WCDMA V_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	4182	836.4	20.11	20.50	1.094	-0.06	1.040	1.138
	WCDMA V_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	4233	846.6	19.93	20.50	1.140	-0.12	0.943	1.075
	WCDMA V_Ant 1	RMC 12.2Kbps	Edge 1	0mm	Battery 1	1	4132	826.4	24.72	25.00	1.067	0.01	0.294	0.314
	WCDMA V_Ant 1	RMC 12.2Kbps	Edge 4	0mm	Battery 1	2&3	4132	826.4	20.15	20.50	1.084	-0.05	0.487	0.528
	WCDMA V_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 2	2&3	4182	836.4	20.11	20.50	1.094	-0.06	0.595	0.651



<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	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 3	20M	QPSK	1	0	Bottom Face	24mm	Battery 1	1	21100	2535	23.49	25.00	1.416	0.1	0.071	0.101
	LTE Band 7_Ant 3	20M	QPSK	50	0	Bottom Face	24mm	Battery 1	1	21100	2535	22.45	24.00	1.429	0.05	0.055	0.079
	LTE Band 7_Ant 3	20M	QPSK	1	0	Edge 1	25mm	Battery 1	1	21100	2535	23.49	25.00	1.416	0.02	0.217	0.307
	LTE Band 7_Ant 3	20M	QPSK	50	0	Edge 1	25mm	Battery 1	1	21100	2535	22.45	24.00	1.429	0.13	0.188	0.269
	LTE Band 7_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	21100	2535	16.18	16.80	1.153	0.19	0.948	1.094
	LTE Band 7_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	20850	2510	16.16	16.80	1.159	-0.06	0.959	1.111
	LTE Band 7_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	21350	2560	16.08	16.80	1.180	0.02	0.972	1.147
	LTE Band 7_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	21100	2535	15.44	15.80	1.086	0.14	0.782	0.850
	LTE Band 7_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	20850	2510	15.34	15.80	1.112	0.1	0.804	0.894
	LTE Band 7_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	21350	2560	15.27	15.80	1.130	0.09	0.815	0.921
	LTE Band 7_Ant 3	20M	QPSK	100	0	Bottom Face	0mm	Battery 1	2&3	21100	2535	15.29	15.80	1.125	0.02	0.743	0.836
	LTE Band 7_Ant 3	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	21100	2535	16.18	16.80	1.153	-0.17	0.407	0.469
	LTE Band 7_Ant 3	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	21100	2535	15.44	15.80	1.086	0.01	0.336	0.365
	LTE Band 7_Ant 3	20M	QPSK	1	0	Edge 4	0mm	Battery 1	1	21100	2535	23.49	25.00	1.416	-0.13	0.133	0.188
	LTE Band 7_Ant 3	20M	QPSK	50	0	Edge 4	0mm	Battery 1	1	21100	2535	22.45	24.00	1.429	-0.02	0.106	0.151
	LTE Band 7C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	21100+20902	2535	16.78	16.80	1.005	0.05	0.962	0.966
	LTE Band 7C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	20850+21048	2510	16.19	16.80	1.151	-0.04	0.929	1.069
	LTE Band 7C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	21350+21152	2560	16.66	16.80	1.033	-0.06	0.941	0.972
	LTE Band 7_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	21350	2560	16.08	16.80	1.180	0.02	0.958	1.131
	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	20850	2510	13.75	14.60	1.216	-0.11	0.818	0.995
	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	21100	2535	13.61	14.60	1.256	-0.17	0.900	1.130
04	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	21350	2560	13.55	14.60	1.274	0.05	0.902	1.149
	LTE Band 7_Ant 2	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	20850	2510	13.67	14.60	1.239	-0.19	0.804	0.996
	LTE Band 7_Ant 2	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	21100	2535	13.46	14.60	1.300	0	0.852	1.108
	LTE Band 7_Ant 2	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	21350	2560	13.42	14.60	1.312	0.16	0.853	1.119
	LTE Band 7_Ant 2	20M	QPSK	100	0	Bottom Face	0mm	Battery 1	2&3	20850	2510	13.61	14.60	1.256	0	0.791	0.994
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	20850	2510	13.75	14.60	1.216	-0.03	0.062	0.076
	LTE Band 7_Ant 2	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	20850	2510	13.67	14.60	1.239	-0.02	0.058	0.072
	LTE Band 7_Ant 2	20M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	20850	2510	13.75	14.60	1.216	0.05	0.296	0.359
	LTE Band 7_Ant 2	20M	QPSK	50	0	Edge 4	0mm	Battery 1	2&3	20850	2510	13.67	14.60	1.239	0.09	0.281	0.348
	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	21350	2560	13.55	14.60	1.274	0.05	0.411	0.523



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	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 1	10M	QPSK	1	0	Bottom Face	28mm	Battery 1	1	23095	707.5	23.54	24.50	1.247	-0.01	0.188	0.235
	LTE Band 12_Ant 1	10M	QPSK	25	0	Bottom Face	28mm	Battery 1	1	23095	707.5	22.60	23.50	1.230	0.05	0.145	0.178
	LTE Band 12_Ant 1	10M	QPSK	1	0	Edge 4	20mm	Battery 1	1	23095	707.5	23.54	24.50	1.247	-0.13	0.163	0.203
	LTE Band 12_Ant 1	10M	QPSK	25	0	Edge 4	20mm	Battery 1	1	23095	707.5	22.60	23.50	1.230	0.06	0.128	0.157
05	LTE Band 12_Ant 1	10M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	23095	707.5	20.65	21.50	1.216	0.14	0.921	1.120
	LTE Band 12_Ant 1	10M	QPSK	25	0	Bottom Face	0mm	Battery 1	2&3	23095	707.5	19.76	20.50	1.186	0.17	0.755	0.895
	LTE Band 12_Ant 1	10M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	23095	707.5	19.70	20.50	1.202	0	0.752	0.904
	LTE Band 12_Ant 1	10M	QPSK	1	0	Edge 1	0mm	Battery 1	1	23095	707.5	23.54	24.50	1.247	-0.1	0.112	0.140
	LTE Band 12_Ant 1	10M	QPSK	25	0	Edge 1	0mm	Battery 1	1	23095	707.5	22.60	23.50	1.230	0.13	0.086	0.106
	LTE Band 12_Ant 1	10M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	23095	707.5	20.65	21.50	1.216	-0.02	0.405	0.493
	LTE Band 12_Ant 1	10M	QPSK	25	0	Edge 4	0mm	Battery 1	2&3	23095	707.5	19.76	20.50	1.186	0.05	0.345	0.409
	LTE Band 12_Ant 1	10M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	23095	707.5	20.65	21.50	1.216	0.14	0.681	0.828
	LTE Band 13_Ant 1	10M	QPSK	1	0	Bottom Face	28mm	Battery 1	1	23230	782	23.26	24.50	1.330	0.16	0.144	0.192
	LTE Band 13_Ant 1	10M	QPSK	25	0	Bottom Face	28mm	Battery 1	1	23230	782	22.27	23.50	1.327	-0.19	0.115	0.153
	LTE Band 13_Ant 1	10M	QPSK	1	0	Edge 4	20mm	Battery 1	1	23230	782	23.26	24.50	1.330	0.05	0.103	0.137
	LTE Band 13_Ant 1	10M	QPSK	25	0	Edge 4	20mm	Battery 1	1	23230	782	22.27	23.50	1.327	0.16	0.083	0.110
06	LTE Band 13_Ant 1	10M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	23230	782	20.86	22.10	1.330	0	0.878	1.168
	LTE Band 13_Ant 1	10M	QPSK	25	0	Bottom Face	0mm	Battery 1	2&3	23230	782	19.78	21.10	1.355	-0.06	0.702	0.951
	LTE Band 13_Ant 1	10M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	23230	782	19.75	21.10	1.365	-0.05	0.708	0.966
	LTE Band 13_Ant 1	10M	QPSK	1	0	Edge 1	0mm	Battery 1	1	23230	782	23.26	24.50	1.330	-0.18	0.071	0.094
	LTE Band 13_Ant 1	10M	QPSK	25	0	Edge 1	0mm	Battery 1	1	23230	782	22.27	23.50	1.327	0.1	0.043	0.057
	LTE Band 13_Ant 1	10M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	23230	782	20.86	22.10	1.330	-0.18	0.336	0.447
	LTE Band 13_Ant 1	10M	QPSK	25	0	Edge 4	0mm	Battery 1	2&3	23230	782	19.78	21.10	1.355	0.07	0.249	0.337
	LTE Band 13_Ant 1	10M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	23230	782	20.86	22.10	1.330	0	0.586	0.780
	LTE Band 14_Ant 1	10M	QPSK	1	0	Bottom Face	28mm	Battery 1	1	23330	793	23.58	24.50	1.236	-0.09	0.132	0.163
	LTE Band 14_Ant 1	10M	QPSK	25	0	Bottom Face	28mm	Battery 1	1	23330	793	22.45	23.50	1.274	-0.14	0.100	0.127
	LTE Band 14_Ant 1	10M	QPSK	1	0	Edge 4	20mm	Battery 1	1	23330	793	23.58	24.50	1.236	0.15	0.093	0.115
	LTE Band 14_Ant 1	10M	QPSK	25	0	Edge 4	20mm	Battery 1	1	23330	793	22.45	23.50	1.274	0.18	0.075	0.096
07	LTE Band 14_Ant 1	10M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	23330	793	21.56	22.40	1.213	0.01	0.958	1.162
	LTE Band 14_Ant 1	10M	QPSK	25	0	Bottom Face	0mm	Battery 1	2&3	23330	793	20.50	21.40	1.230	0.07	0.787	0.968
	LTE Band 14_Ant 1	10M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	23330	793	20.40	21.40	1.259	-0.11	0.764	0.962
	LTE Band 14_Ant 1	10M	QPSK	1	0	Edge 1	0mm	Battery 1	1	23330	793	23.58	24.50	1.236	-0.15	0.065	0.080
	LTE Band 14_Ant 1	10M	QPSK	25	0	Edge 1	0mm	Battery 1	1	23330	793	22.45	23.50	1.274	-0.08	0.036	0.046
	LTE Band 14_Ant 1	10M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	23330	793	21.56	22.40	1.213	-0.12	0.340	0.413
	LTE Band 14_Ant 1	10M	QPSK	25	0	Edge 4	0mm	Battery 1	2&3	23330	793	20.50	21.40	1.230	-0.11	0.238	0.293
	LTE Band 14_Ant 1	10M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	23330	793	21.56	22.40	1.213	0.01	0.627	0.761



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	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 1	20M	QPSK	1	0	Bottom Face	28mm	Battery 1	1	26140	1860	23.27	24.50	1.327	0.1	0.313	0.415
	LTE Band 25_Ant 1	20M	QPSK	50	0	Bottom Face	28mm	Battery 1	1	26140	1860	22.37	23.50	1.297	-0.02	0.241	0.313
	LTE Band 25_Ant 1	20M	QPSK	1	0	Edge 4	20mm	Battery 1	1	26140	1860	23.27	24.50	1.327	0.02	0.578	0.767
	LTE Band 25_Ant 1	20M	QPSK	50	0	Edge 4	20mm	Battery 1	1	26140	1860	22.37	23.50	1.297	0.05	0.462	0.599
08	LTE Band 25_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	26140	1860	16.30	17.40	1.288	-0.12	0.911	1.174
	LTE Band 25_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	26340	1880	16.24	17.40	1.306	0.03	0.852	1.113
	LTE Band 25_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	26590	1905	16.14	17.40	1.337	-0.03	0.773	1.033
	LTE Band 25_Ant 1	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	26140	1860	15.54	16.40	1.219	0.13	0.738	0.900
	LTE Band 25_Ant 1	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	26340	1880	15.40	16.40	1.259	-0.16	0.702	0.884
	LTE Band 25_Ant 1	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	26590	1905	15.29	16.40	1.291	-0.09	0.642	0.829
	LTE Band 25_Ant 1	20M	QPSK	100	0	Bottom Face	0mm	Battery 1	2&3	26140	1860	15.34	16.40	1.276	0.14	0.701	0.895
	LTE Band 25_Ant 1	20M	QPSK	1	0	Edge 1	0mm	Battery 1	1	26140	1860	23.27	24.50	1.327	-0.19	0.048	0.064
	LTE Band 25_Ant 1	20M	QPSK	50	0	Edge 1	0mm	Battery 1	1	26140	1860	22.37	23.50	1.297	0.04	0.039	0.051
	LTE Band 25_Ant 1	20M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	26140	1860	16.30	17.40	1.288	0	0.735	0.947
	LTE Band 25_Ant 1	20M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	26340	1880	16.24	17.40	1.306	0	0.705	0.921
	LTE Band 25_Ant 1	20M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	26590	1905	16.14	17.40	1.337	0.02	0.684	0.914
	LTE Band 25_Ant 1	20M	QPSK	50	0	Edge 4	0mm	Battery 1	2&3	26140	1860	15.54	16.40	1.219	0.07	0.598	0.729
	LTE Band 25_Ant 1	20M	QPSK	100	0	Edge 4	0mm	Battery 1	2&3	26140	1860	15.34	16.40	1.276	0.15	0.548	0.699
	LTE Band 25_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	26140	1860	16.30	17.40	1.288	-0.12	0.607	0.782
	LTE Band 25_Ant 4	20M	QPSK	1	0	Bottom Face	24mm	Battery 1	1	26340	1880	23.50	24.50	1.259	0	0.317	0.399
	LTE Band 25_Ant 4	20M	QPSK	50	0	Bottom Face	24mm	Battery 1	1	26340	1880	22.45	23.50	1.274	-0.19	0.240	0.306
	LTE Band 25_Ant 4	20M	QPSK	1	0	Edge 1	27mm	Battery 1	1	26340	1880	23.50	24.50	1.259	-0.13	0.252	0.317
	LTE Band 25_Ant 4	20M	QPSK	50	0	Edge 1	27mm	Battery 1	1	26340	1880	22.45	23.50	1.274	-0.13	0.204	0.260
	LTE Band 25_Ant 4	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	26340	1880	16.49	17.00	1.125	0.14	0.975	1.096
	LTE Band 25_Ant 4	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	26140	1860	16.40	17.00	1.148	-0.02	0.943	1.083
	LTE Band 25_Ant 4	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	26590	1905	16.43	17.00	1.140	0.06	0.993	1.132
	LTE Band 25_Ant 4	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	26340	1880	16.46	17.00	1.132	-0.04	0.951	1.077
	LTE Band 25_Ant 4	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	26140	1860	16.38	17.00	1.153	-0.05	0.932	1.075
	LTE Band 25_Ant 4	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	26590	1905	16.40	17.00	1.148	0.14	0.977	1.122
	LTE Band 25_Ant 4	20M	QPSK	100	0	Bottom Face	0mm	Battery 1	2&3	26340	1880	16.39	17.00	1.151	0.15	0.930	1.070
	LTE Band 25_Ant 4	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	26340	1880	16.49	17.00	1.125	0.11	0.951	1.069
	LTE Band 25_Ant 4	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	26140	1860	16.40	17.00	1.148	-0.01	0.929	1.067
	LTE Band 25_Ant 4	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	26590	1905	16.43	17.00	1.140	-0.14	0.955	1.089
	LTE Band 25_Ant 4	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	26340	1880	16.46	17.00	1.132	-0.02	0.933	1.057
	LTE Band 25_Ant 4	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	26140	1860	16.38	17.00	1.153	0.15	0.910	1.050
	LTE Band 25_Ant 4	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	26590	1905	16.40	17.00	1.148	0.19	0.925	1.062
	LTE Band 25_Ant 4	20M	QPSK	100	0	Edge 1	0mm	Battery 1	2&3	26340	1880	16.39	17.00	1.151	-0.16	0.912	1.050
	LTE Band 25_Ant 4	20M	QPSK	1	0	Edge 4	0mm	Battery 1	1	26340	1880	23.50	24.50	1.259	-0.07	0.266	0.335
	LTE Band 25_Ant 4	20M	QPSK	50	0	Edge 4	0mm	Battery 1	1	26340	1880	22.45	23.50	1.274	-0.01	0.205	0.261
	LTE Band 25_Ant 4	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	26590	1905	16.43	17.00	1.140	0.06	0.990	1.129



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	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 1	15M	QPSK	1	0	Bottom Face	28mm	Battery 1	1	26865	831.5	23.77	25.50	1.489	0.08	0.196	0.292
	LTE Band 26_Ant 1	15M	QPSK	36	0	Bottom Face	28mm	Battery 1	1	26865	831.5	22.81	24.50	1.476	0.05	0.143	0.211
	LTE Band 26_Ant 1	15M	QPSK	1	0	Edge 4	20mm	Battery 1	1	26865	831.5	23.77	25.50	1.489	0.1	0.139	0.207
	LTE Band 26_Ant 1	15M	QPSK	36	0	Edge 4	20mm	Battery 1	1	26865	831.5	22.81	24.50	1.476	0.02	0.117	0.173
09	LTE Band 26_Ant 1	15M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	26865	831.5	20.25	20.90	1.161	-0.16	0.975	1.132
	LTE Band 26_Ant 1	15M	QPSK	36	0	Bottom Face	0mm	Battery 1	2&3	26865	831.5	19.15	19.90	1.189	-0.04	0.758	0.901
	LTE Band 26_Ant 1	15M	QPSK	75	0	Bottom Face	0mm	Battery 1	2&3	26865	831.5	19.10	19.90	1.202	0.11	0.739	0.888
	LTE Band 26_Ant 1	15M	QPSK	1	0	Edge 1	0mm	Battery 1	1	26865	831.5	23.77	25.50	1.489	0.13	0.251	0.374
	LTE Band 26_Ant 1	15M	QPSK	36	0	Edge 1	0mm	Battery 1	1	26865	831.5	22.81	24.50	1.476	-0.09	0.207	0.305
	LTE Band 26_Ant 1	15M	QPSK	1	0	Edge 3	0mm	Battery 1	1	26865	831.5	23.77	25.50	1.489	-0.14	0.086	0.128
	LTE Band 26_Ant 1	15M	QPSK	36	0	Edge 3	0mm	Battery 1	1	26865	831.5	22.81	24.50	1.476	0.05	0.060	0.089
	LTE Band 26_Ant 1	15M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	26865	831.5	20.25	20.90	1.161	0.01	0.408	0.474
	LTE Band 26_Ant 1	15M	QPSK	36	0	Edge 4	0mm	Battery 1	2&3	26865	831.5	19.15	19.90	1.189	0.02	0.329	0.391
	LTE Band 5B_Ant 1	10M	QPSK	1	49	Bottom Face	0mm	Battery 1	2&3	20475+20574	831.5	20.71	20.90	1.045	0.08	0.962	1.005
	LTE Band 26_Ant 1	15M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	26865	831.5	20.25	20.90	1.161	-0.16	0.563	0.654
	LTE Band 30_Ant 3	10M	QPSK	1	0	Bottom Face	24mm	Battery 1	1	27710	2310	22.19	23.00	1.205	0.04	0.117	0.141
	LTE Band 30_Ant 3	10M	QPSK	25	0	Bottom Face	24mm	Battery 1	1	27710	2310	21.30	22.00	1.175	-0.18	0.092	0.108
	LTE Band 30_Ant 3	10M	QPSK	1	0	Edge 1	25mm	Battery 1	1	27710	2310	22.19	23.00	1.205	0.05	0.264	0.318
	LTE Band 30_Ant 3	10M	QPSK	25	0	Edge 1	25mm	Battery 1	1	27710	2310	21.30	22.00	1.175	-0.1	0.223	0.262
10	LTE Band 30_Ant 3	10M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	27710	2310	16.19	17.30	1.291	-0.05	0.891	1.150
	LTE Band 30_Ant 3	10M	QPSK	25	0	Bottom Face	0mm	Battery 1	2&3	27710	2310	15.20	16.30	1.288	-0.16	0.709	0.913
	LTE Band 30_Ant 3	10M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	27710	2310	15.16	16.30	1.300	-0.07	0.703	0.914
	LTE Band 30_Ant 3	10M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	27710	2310	16.19	17.30	1.291	-0.04	0.394	0.509
	LTE Band 30_Ant 3	10M	QPSK	25	0	Edge 1	0mm	Battery 1	2&3	27710	2310	15.20	16.30	1.288	0.13	0.317	0.408
	LTE Band 30_Ant 3	10M	QPSK	1	0	Edge 4	0mm	Battery 1	1	27710	2310	22.19	23.00	1.205	-0.15	0.122	0.147
	LTE Band 30_Ant 3	10M	QPSK	25	0	Edge 4	0mm	Battery 1	1	27710	2310	21.30	22.00	1.175	-0.06	0.101	0.119
	LTE Band 30_Ant 3	10M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	27710	2310	16.19	17.30	1.291	-0.05	0.821	1.060



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	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 1	20M	QPSK	1	0	Bottom Face	28mm	Battery 1	1	132072	1720	23.46	24.50	1.271	-0.07	0.363	0.461
	LTE Band 66_Ant 1	20M	QPSK	50	0	Bottom Face	28mm	Battery 1	1	132072	1720	22.50	23.50	1.259	-0.03	0.274	0.345
	LTE Band 66_Ant 1	20M	QPSK	1	0	Edge 4	20mm	Battery 1	1	132072	1720	23.46	24.50	1.271	-0.02	0.722	0.917
	LTE Band 66_Ant 1	20M	QPSK	1	0	Edge 4	20mm	Battery 1	1	132322	1745	23.43	24.50	1.279	0.06	0.705	0.902
	LTE Band 66_Ant 1	20M	QPSK	1	0	Edge 4	20mm	Battery 1	1	132572	1770	23.31	24.50	1.315	0.14	0.693	0.911
	LTE Band 66_Ant 1	20M	QPSK	50	0	Edge 4	20mm	Battery 1	1	132072	1720	22.50	23.50	1.259	-0.05	0.572	0.720
	LTE Band 66_Ant 1	20M	QPSK	100	0	Edge 4	20mm	Battery 1	1	132072	1720	22.45	23.50	1.274	-0.16	0.543	0.692
	LTE Band 66_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132072	1720	15.50	16.30	1.202	0.03	0.948	1.140
	LTE Band 66_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132322	1745	15.48	16.30	1.208	-0.17	0.925	1.117
	LTE Band 66_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132572	1770	15.38	16.30	1.236	0	0.903	1.116
	LTE Band 66_Ant 1	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	132072	1720	14.71	15.30	1.146	0.07	0.822	0.942
	LTE Band 66_Ant 1	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	132322	1745	14.69	15.30	1.151	-0.1	0.813	0.936
	LTE Band 66_Ant 1	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	132572	1770	14.52	15.30	1.197	-0.11	0.799	0.956
	LTE Band 66_Ant 1	20M	QPSK	100	0	Bottom Face	0mm	Battery 1	2&3	132072	1720	14.65	15.30	1.161	-0.16	0.805	0.935
	LTE Band 66_Ant 1	20M	QPSK	1	0	Edge 1	0mm	Battery 1	1	132072	1720	23.46	24.50	1.271	-0.02	0.054	0.069
	LTE Band 66_Ant 1	20M	QPSK	50	0	Edge 1	0mm	Battery 1	1	132072	1720	22.50	23.50	1.259	0	0.036	0.045
	LTE Band 66_Ant 1	20M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	132072	1720	15.50	16.30	1.202	-0.19	0.768	0.923
	LTE Band 66_Ant 1	20M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	132322	1745	15.48	16.30	1.208	-0.05	0.743	0.897
	LTE Band 66_Ant 1	20M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	132572	1770	15.38	16.30	1.236	-0.06	0.719	0.889
	LTE Band 66_Ant 1	20M	QPSK	50	0	Edge 4	0mm	Battery 1	2&3	132072	1720	14.71	15.30	1.146	0.02	0.635	0.727
	LTE Band 66_Ant 1	20M	QPSK	100	0	Edge 4	0mm	Battery 1	2&3	132072	1720	14.65	15.30	1.161	0.12	0.611	0.710
	LTE Band 66B_Ant 1	15M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132322+132229	1745	15.86	16.30	1.107	0.02	0.962	1.065
	LTE Band 66B_Ant 1	15M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132047+132140	1717.5	15.66	16.30	1.159	-0.04	0.950	1.101
	LTE Band 66B_Ant 1	15M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132597+132504	1772.5	15.82	16.30	1.117	-0.07	0.938	1.048
	LTE Band 66C_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132322+132124	1745	15.89	16.30	1.099	-0.02	0.955	1.050
	LTE Band 66C_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132072+132270	1720	15.71	16.30	1.146	-0.06	0.935	1.071
	LTE Band 66C_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132572+132374	1770	15.81	16.30	1.119	-0.19	0.921	1.031
	LTE Band 66_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	132072	1720	15.50	16.30	1.202	0.03	0.539	0.648
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Face	24mm	Battery 1	1	132322	1745	23.15	24.50	1.365	0.18	0.283	0.386
	LTE Band 66_Ant 4	20M	QPSK	50	0	Bottom Face	24mm	Battery 1	1	132322	1745	22.36	23.50	1.300	-0.02	0.229	0.298
	LTE Band 66_Ant 4	20M	QPSK	1	0	Edge 1	27mm	Battery 1	1	132322	1745	23.15	24.50	1.365	0.13	0.241	0.329
	LTE Band 66_Ant 4	20M	QPSK	50	0	Edge 1	27mm	Battery 1	1	132322	1745	22.36	23.50	1.300	-0.17	0.193	0.251
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132322	1745	16.11	17.00	1.227	-0.02	0.877	1.076
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132072	1720	16.03	17.00	1.250	-0.09	0.865	1.081
11	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	132572	1770	15.91	17.00	1.285	-0.18	0.892	1.146
	LTE Band 66_Ant 4	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	132322	1745	16.07	17.00	1.239	-0.12	0.861	1.067
	LTE Band 66_Ant 4	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	132072	1720	16.00	17.00	1.259	0.09	0.845	1.064
	LTE Band 66_Ant 4	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	132572	1770	15.90	17.00	1.288	0.07	0.873	1.125
	LTE Band 66_Ant 4	20M	QPSK	100	0	Bottom Face	0mm	Battery 1	2&3	132322	1745	16.02	17.00	1.253	0.01	0.832	1.043
	LTE Band 66_Ant 4	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	132322	1745	16.11	17.00	1.227	-0.18	0.852	1.046
	LTE Band 66_Ant 4	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	132072	1720	16.03	17.00	1.250	0.07	0.841	1.051
	LTE Band 66_Ant 4	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	132572	1770	15.91	17.00	1.285	-0.12	0.822	1.057
	LTE Band 66_Ant 4	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	132322	1745	16.07	17.00	1.239	0.1	0.823	1.020
	LTE Band 66_Ant 4	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	132072	1720	16.00	17.00	1.259	-0.03	0.812	1.022
	LTE Band 66_Ant 4	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	132572	1770	15.90	17.00	1.288	-0.19	0.806	1.038
	LTE Band 66_Ant 4	20M	QPSK	100	0	Edge 1	0mm	Battery 1	2&3	132322	1745	16.02	17.00	1.253	-0.03	0.824	1.033
	LTE Band 66_Ant 4	20M	QPSK	1	0	Edge 4	0mm	Battery 1	1	132322	1745	23.15	24.50	1.365	-0.09	0.119	0.162
	LTE Band 66_Ant 4	20M	QPSK	50	0	Edge 4	0mm	Battery 1	1	132322	1745	22.36	23.50	1.300	0.14	0.094	0.122
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	132572	1770	15.91	17.00	1.285	-0.18	0.843	1.083
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	132072	1720	16.03	17.00	1.250	-0.06	0.822	1.028
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	132322	1745	16.11	17.00	1.227	0.05	0.827	1.015



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	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 71_Ant 1	20M	QPSK	1	0	Bottom Face	28mm	Battery 1	1	133297	680.5	23.34	24.50	1.306	-0.05	0.166	0.217
	LTE Band 71_Ant 1	20M	QPSK	50	0	Bottom Face	28mm	Battery 1	1	133297	680.5	22.44	23.50	1.276	0.13	0.132	0.168
	LTE Band 71_Ant 1	20M	QPSK	1	0	Edge 4	20mm	Battery 1	1	133297	680.5	23.34	24.50	1.306	0.08	0.148	0.193
	LTE Band 71_Ant 1	20M	QPSK	50	0	Edge 4	20mm	Battery 1	1	133297	680.5	22.44	23.50	1.276	0.09	0.117	0.149
12	LTE Band 71_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	133297	680.5	21.19	22.30	1.291	0.02	0.881	1.138
	LTE Band 71_Ant 1	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	133297	680.5	20.27	21.30	1.268	0.07	0.724	0.918
	LTE Band 71_Ant 1	20M	QPSK	100	0	Bottom Face	0mm	Battery 1	2&3	133297	680.5	20.15	21.30	1.303	0.15	0.706	0.920
	LTE Band 71_Ant 1	20M	QPSK	1	0	Edge 1	0mm	Battery 1	1	133297	680.5	23.34	24.50	1.306	-0.05	0.065	0.085
	LTE Band 71_Ant 1	20M	QPSK	50	0	Edge 1	0mm	Battery 1	1	133297	680.5	22.44	23.50	1.276	-0.01	0.042	0.054
	LTE Band 71_Ant 1	20M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	133297	680.5	21.19	22.30	1.291	-0.04	0.408	0.527
	LTE Band 71_Ant 1	20M	QPSK	50	0	Edge 4	0mm	Battery 1	2&3	133297	680.5	20.27	21.30	1.268	0	0.282	0.357
	LTE Band 71_Ant 1	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	133297	680.5	21.19	22.30	1.291	0.02	0.699	0.903

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 3	20M	QPSK	1	0	Bottom Face	24mm	Battery 1	1	40620	2593	23.45	24.50	1.274	62.9	1.006	0.19	0.057	0.073
	LTE Band 41_Ant 3	20M	QPSK	50	0	Bottom Face	24mm	Battery 1	1	40620	2593	22.63	23.50	1.222	62.9	1.006	-0.06	0.038	0.047
	LTE Band 41_Ant 3	20M	QPSK	1	0	Edge 1	25mm	Battery 1	1	40620	2593	23.45	24.50	1.274	62.9	1.006	0.14	0.165	0.211
	LTE Band 41_Ant 3	20M	QPSK	50	0	Edge 1	25mm	Battery 1	1	40620	2593	22.63	23.50	1.222	62.9	1.006	0.06	0.134	0.165
	LTE Band 41_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	40620	2593	15.83	16.80	1.250	62.9	1.006	-0.16	0.650	0.817
	LTE Band 41_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	39750	2506	15.81	16.80	1.256	62.9	1.006	0.18	0.522	0.660
	LTE Band 41_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	40185	2549.5	15.76	16.80	1.271	62.9	1.006	-0.17	0.598	0.764
	LTE Band 41_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	41055	2636.5	15.56	16.80	1.330	62.9	1.006	0.09	0.730	0.977
13	LTE Band 41_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	41490	2680	15.56	16.80	1.330	62.9	1.006	0.02	0.869	1.163
	LTE Band 41_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	40620	2593	15.09	15.80	1.178	62.9	1.006	-0.1	0.551	0.653
	LTE Band 41_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	39750	2506	15.07	15.80	1.183	62.9	1.006	0.15	0.443	0.527
	LTE Band 41_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	40185	2549.5	14.99	15.80	1.205	62.9	1.006	-0.12	0.504	0.611
	LTE Band 41_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	41055	2636.5	14.72	15.80	1.282	62.9	1.006	0.04	0.573	0.739
	LTE Band 41_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	41490	2680	14.73	15.80	1.279	62.9	1.006	0.19	0.722	0.929
	LTE Band 41_Ant 3	20M	QPSK	100	0	Bottom Face	0mm	Battery 1	2&3	40620	2593	14.92	15.80	1.225	62.9	1.006	0.02	0.530	0.653
	LTE Band 41_Ant 3	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	40620	2593	15.83	16.80	1.250	62.9	1.006	-0.11	0.232	0.291
	LTE Band 41_Ant 3	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	40620	2593	15.09	15.80	1.178	62.9	1.006	-0.05	0.204	0.242
	LTE Band 41_Ant 3	20M	QPSK	1	0	Edge 4	0mm	Battery 1	1	40620	2593	23.45	24.50	1.274	62.9	1.006	-0.08	0.106	0.136
	LTE Band 41_Ant 3	20M	QPSK	50	0	Edge 4	0mm	Battery 1	1	40620	2593	22.63	23.50	1.222	62.9	1.006	0.04	0.098	0.120
	LTE Band 41_HPUE_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	41490	2680	18.28	18.40	1.028	42.9	1.009	-0.02	1.040	1.079
	LTE Band 41_HPUE_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	39750	2506	17.98	18.40	1.102	42.9	1.009	0.18	0.543	0.604
	LTE Band 41_HPUE_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	40185	2549.5	18.13	18.40	1.064	42.9	1.009	0.14	0.698	0.749
	LTE Band 41_HPUE_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	40620	2593	18.22	18.40	1.042	42.9	1.009	-0.04	0.801	0.842
	LTE Band 41_HPUE_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	41055	2636.5	17.92	18.40	1.117	42.9	1.009	-0.17	0.866	0.976
	LTE Band 41C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	41490+41292	2680	16.61	16.80	1.045	62.9	1.006	0.05	0.958	1.007
	LTE Band 41C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	39750+39948	2506	15.93	16.80	1.222	62.9	1.006	0.1	0.537	0.660
	LTE Band 41C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	40185+39987	2549.5	16.56	16.80	1.057	62.9	1.006	-0.04	0.734	0.780
	LTE Band 41C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	40620+40422	2593	16.42	16.80	1.091	62.9	1.006	-0.02	0.801	0.879
	LTE Band 41C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	41055+40857	2636.5	16.49	16.80	1.074	62.9	1.006	0.13	0.823	0.889
	LTE Band 41_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	41490	2680	15.56	16.80	1.330	62.9	1.006	0.02	0.704	0.942



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	40620	2593	15.96	16.70	1.186	62.9	1.006	0.16	0.910	1.086
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	39750	2506	15.77	16.70	1.239	62.9	1.006	-0.02	0.905	1.128
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	40185	2549.5	15.88	16.70	1.208	62.9	1.006	0.01	0.946	1.149
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	41055	2636.5	15.69	16.70	1.262	62.9	1.006	-0.04	0.881	1.118
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	41490	2680	15.89	16.70	1.205	62.9	1.006	0	0.822	0.996
	LTE Band 41_Ant 2	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	40620	2593	15.94	16.70	1.191	62.9	1.006	0.12	0.881	1.056
	LTE Band 41_Ant 2	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	39750	2506	15.74	16.70	1.247	62.9	1.006	-0.09	0.896	1.124
	LTE Band 41_Ant 2	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	40185	2549.5	15.82	16.70	1.225	62.9	1.006	0.18	0.920	1.133
	LTE Band 41_Ant 2	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	41055	2636.5	15.58	16.70	1.294	62.9	1.006	0.06	0.864	1.125
	LTE Band 41_Ant 2	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	41490	2680	15.87	16.70	1.211	62.9	1.006	0.03	0.813	0.990
	LTE Band 41_Ant 2	20M	QPSK	100	0	Bottom Face	0mm	Battery 1	2&3	40620	2593	15.93	16.70	1.194	62.9	1.006	0.01	0.855	1.027
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	40620	2593	15.96	16.70	1.186	62.9	1.006	0.19	0.045	0.054
	LTE Band 41_Ant 2	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	40620	2593	15.94	16.70	1.191	62.9	1.006	0.15	0.043	0.052
	LTE Band 41_Ant 2	20M	QPSK	1	0	Edge 4	0mm	Battery 1	2&3	40620	2593	15.96	16.70	1.186	62.9	1.006	-0.18	0.277	0.330
	LTE Band 41_Ant 2	20M	QPSK	50	0	Edge 4	0mm	Battery 1	2&3	40620	2593	15.94	16.70	1.191	62.9	1.006	-0.15	0.275	0.330
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	41490	2680	17.56	18.30	1.186	42.9	1.009	0.08	0.918	1.098
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	39750	2506	17.29	18.30	1.262	42.9	1.009	0.05	0.826	1.052
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	40185	2549.5	17.45	18.30	1.216	42.9	1.009	0.06	0.853	1.047
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	40620	2593	17.48	18.30	1.208	42.9	1.009	0.09	0.869	1.059
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	41055	2636.5	17.42	18.30	1.225	42.9	1.009	0.15	0.829	1.024
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	40185	2549.5	15.88	16.70	1.208	62.9	1.006	0.01	0.633	0.769
	LTE Band 48_Ant 3	20M	QPSK	1	0	Bottom Face	24mm	Battery 1	1	56640	3690	20.73	22.00	1.340	62.9	1.006	-0.12	0.519	0.699
	LTE Band 48_Ant 3	20M	QPSK	1	0	Bottom Face	24mm	Battery 1	1	55340	3560	20.50	22.00	1.413	62.9	1.006	-0.11	0.343	0.487
	LTE Band 48_Ant 3	20M	QPSK	1	0	Bottom Face	24mm	Battery 1	1	55830	3609	20.25	22.00	1.496	62.9	1.006	-0.01	0.390	0.587
	LTE Band 48_Ant 3	20M	QPSK	1	0	Bottom Face	24mm	Battery 1	1	56150	3641	20.36	22.00	1.459	62.9	1.006	0.03	0.447	0.656
	LTE Band 48_Ant 3	20M	QPSK	50	0	Bottom Face	24mm	Battery 1	1	56640	3690	19.62	21.00	1.374	62.9	1.006	-0.05	0.417	0.576
	LTE Band 48_Ant 3	20M	QPSK	1	0	Edge 1	25mm	Battery 1	1	56640	3690	20.73	22.00	1.340	62.9	1.006	0.08	0.143	0.193
	LTE Band 48_Ant 3	20M	QPSK	50	0	Edge 1	25mm	Battery 1	1	56640	3690	19.62	21.00	1.374	62.9	1.006	-0.02	0.104	0.144
14	LTE Band 48_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	56640	3690	11.39	12.20	1.205	62.9	1.006	0.04	0.969	1.175
	LTE Band 48_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	55340	3560	11.32	12.20	1.225	62.9	1.006	-0.11	0.640	0.788
	LTE Band 48_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	55830	3609	11.17	12.20	1.268	62.9	1.006	-0.12	0.728	0.928
	LTE Band 48_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	56150	3641	11.14	12.20	1.276	62.9	1.006	0.03	0.833	1.070
	LTE Band 48_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	56640	3690	10.48	11.20	1.180	62.9	1.006	-0.07	0.778	0.924
	LTE Band 48_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	55340	3560	10.43	11.20	1.194	62.9	1.006	0.1	0.550	0.661
	LTE Band 48_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	55830	3609	10.26	11.20	1.242	62.9	1.006	0.13	0.608	0.759
	LTE Band 48_Ant 3	20M	QPSK	50	0	Bottom Face	0mm	Battery 1	2&3	56150	3641	10.19	11.20	1.262	62.9	1.006	-0.16	0.662	0.840
	LTE Band 48_Ant 3	20M	QPSK	100	0	Bottom Face	0mm	Battery 1	2&3	56640	3690	10.41	11.20	1.199	62.9	1.006	0.08	0.702	0.847
	LTE Band 48_Ant 3	20M	QPSK	1	0	Edge 1	0mm	Battery 1	2&3	56640	3690	11.39	12.20	1.205	62.9	1.006	0.07	0.264	0.320
	LTE Band 48_Ant 3	20M	QPSK	50	0	Edge 1	0mm	Battery 1	2&3	56640	3690	10.48	11.20	1.180	62.9	1.006	0.02	0.213	0.253
	LTE Band 48_Ant 3	20M	QPSK	1	0	Edge 4	0mm	Battery 1	1	56640	3690	20.73	22.00	1.340	62.9	1.006	0.05	0.135	0.182
	LTE Band 48_Ant 3	20M	QPSK	50	0	Edge 4	0mm	Battery 1	1	56640	3690	19.62	21.00	1.374	62.9	1.006	-0.05	0.108	0.149
	LTE Band 48C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	56640+56442	3690	12.11	12.20	1.021	62.9	1.006	-0.1	0.968	0.994
	LTE Band 48C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	55340+55538	3690	11.41	12.20	1.199	62.9	1.006	-0.14	0.655	0.790
	LTE Band 48C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	55830+55632	3690	12.02	12.20	1.042	62.9	1.006	0	0.804	0.843
	LTE Band 48C_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 1	2&3	56150+55952	3690	11.99	12.20	1.050	62.9	1.006	0.06	0.967	1.021
	LTE Band 48_Ant 3	20M	QPSK	1	0	Bottom Face	0mm	Battery 2	2&3	56640	3690	11.39	12.20	1.205	62.9	1.006	0.04	0.762	0.924

<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	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 3	40M	BPSK	1	1	Bottom Face	24mm	Battery 1	1	507000	2535	24.02	24.50	1.117	0.19	0.096	0.107
	FR1 n7_Ant 3	40M	BPSK	108	54	Bottom Face	24mm	Battery 1	1	507000	2535	23.96	24.50	1.132	-0.06	0.088	0.100
	FR1 n7_Ant 3	40M	BPSK	1	1	Edge 1	25mm	Battery 1	1	507000	2535	24.02	24.50	1.117	-0.01	0.271	0.303
	FR1 n7_Ant 3	40M	BPSK	108	54	Edge 1	25mm	Battery 1	1	507000	2535	23.96	24.50	1.132	-0.12	0.254	0.288
	FR1 n7_Ant 3	40M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	507000	2535	15.84	17.10	1.337	0.06	0.871	1.164
	FR1 n7_Ant 3	40M	BPSK	108	54	Bottom Face	0mm	Battery 1	2&3	507000	2535	15.80	17.10	1.349	-0.19	0.853	1.151
	FR1 n7_Ant 3	40M	BPSK	216	0	Bottom Face	0mm	Battery 1	2&3	507000	2535	15.78	17.10	1.355	0.02	0.841	1.140
	FR1 n7_Ant 3	40M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	507000	2535	15.84	17.10	1.337	-0.16	0.325	0.434
	FR1 n7_Ant 3	40M	BPSK	108	54	Edge 1	0mm	Battery 1	2&3	507000	2535	15.80	17.10	1.349	0.13	0.309	0.417
	FR1 n7_Ant 3	40M	BPSK	1	1	Edge 4	0mm	Battery 1	1	507000	2535	24.02	24.50	1.117	0.15	0.137	0.153
	FR1 n7_Ant 3	40M	BPSK	108	54	Edge 4	0mm	Battery 1	1	507000	2535	23.96	24.50	1.132	0	0.119	0.135
	FR1 n7_Ant 3	40M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	507000	2535	15.84	17.10	1.337	0.06	0.850	1.136
15	FR1 n7_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	507000	2535	13.62	14.70	1.282	0.11	0.909	1.166
	FR1 n7_Ant 2	40M	BPSK	108	54	Bottom Face	0mm	Battery 1	2&3	507000	2535	13.59	14.70	1.291	0.16	0.878	1.134
	FR1 n7_Ant 2	40M	BPSK	216	0	Bottom Face	0mm	Battery 1	2&3	507000	2535	13.55	14.70	1.303	-0.14	0.853	1.112
	FR1 n7_Ant 2	40M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	507000	2535	13.62	14.70	1.282	0.12	0.058	0.074
	FR1 n7_Ant 2	40M	BPSK	108	54	Edge 1	0mm	Battery 1	2&3	507000	2535	13.59	14.70	1.291	-0.06	0.054	0.070
	FR1 n7_Ant 2	40M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	507000	2535	13.62	14.70	1.282	0.01	0.269	0.345
	FR1 n7_Ant 2	40M	BPSK	108	54	Edge 4	0mm	Battery 1	2&3	507000	2535	13.59	14.70	1.291	-0.15	0.247	0.319
	FR1 n7_Ant 2	40M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	507000	2535	13.62	14.70	1.282	0.11	0.447	0.573
	FR1 n12_Ant 1	15M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	141500	707.5	24.20	24.50	1.072	-0.09	0.246	0.264
	FR1 n12_Ant 1	15M	BPSK	36	22	Bottom Face	28mm	Battery 1	1	141500	707.5	24.08	24.50	1.102	-0.16	0.228	0.251
	FR1 n12_Ant 1	15M	BPSK	1	1	Edge 4	20mm	Battery 1	1	141500	707.5	24.20	24.50	1.072	-0.05	0.133	0.143
	FR1 n12_Ant 1	15M	BPSK	36	22	Edge 4	20mm	Battery 1	1	141500	707.5	24.08	24.50	1.102	-0.07	0.110	0.121
16	FR1 n12_Ant 1	15M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	141500	707.5	21.41	21.80	1.094	-0.03	1.080	1.181
	FR1 n12_Ant 1	15M	BPSK	36	22	Bottom Face	0mm	Battery 1	2&3	141500	707.5	21.38	21.80	1.102	0.1	0.996	1.097
	FR1 n12_Ant 1	15M	BPSK	75	0	Bottom Face	0mm	Battery 1	2&3	141500	707.5	21.35	21.80	1.109	0.02	1.030	1.142
	FR1 n12_Ant 1	15M	BPSK	1	1	Edge 1	0mm	Battery 1	1	141500	707.5	24.20	24.50	1.072	-0.07	0.115	0.123
	FR1 n12_Ant 1	15M	BPSK	36	22	Edge 1	0mm	Battery 1	1	141500	707.5	24.08	24.50	1.102	-0.1	0.102	0.112
	FR1 n12_Ant 1	15M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	141500	707.5	21.41	21.80	1.094	-0.02	0.402	0.440
	FR1 n12_Ant 1	15M	BPSK	36	22	Edge 4	0mm	Battery 1	2&3	141500	707.5	21.38	21.80	1.102	0.14	0.389	0.428
	FR1 n12_Ant 1	15M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	141500	707.5	21.41	21.80	1.094	-0.03	0.810	0.886
	FR1 n13_Ant 1	10M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	156400	782	23.83	24.50	1.167	0	0.160	0.187
	FR1 n13_Ant 1	10M	BPSK	25	14	Bottom Face	28mm	Battery 1	1	156400	782	23.75	24.50	1.189	0	0.144	0.171
	FR1 n13_Ant 1	10M	BPSK	1	1	Edge 4	20mm	Battery 1	1	156400	782	23.83	24.50	1.167	0.11	0.125	0.146
	FR1 n13_Ant 1	10M	BPSK	25	14	Edge 4	20mm	Battery 1	1	156400	782	23.75	24.50	1.189	-0.12	0.111	0.132
17	FR1 n13_Ant 1	10M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	156400	782	21.45	22.20	1.189	0.15	0.999	1.187
	FR1 n13_Ant 1	10M	BPSK	25	14	Bottom Face	0mm	Battery 1	2&3	156400	782	21.43	22.20	1.194	-0.01	0.987	1.178
	FR1 n13_Ant 1	10M	BPSK	50	0	Bottom Face	0mm	Battery 1	2&3	156400	782	21.37	22.20	1.211	-0.03	0.966	1.169
	FR1 n13_Ant 1	10M	BPSK	1	1	Edge 1	0mm	Battery 1	1	156400	782	23.83	24.50	1.167	0.06	0.053	0.062
	FR1 n13_Ant 1	10M	BPSK	25	14	Edge 1	0mm	Battery 1	1	156400	782	23.75	24.50	1.189	-0.11	0.051	0.061
	FR1 n13_Ant 1	10M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	156400	782	21.45	22.20	1.189	0.15	0.502	0.597
	FR1 n13_Ant 1	10M	BPSK	25	14	Edge 4	0mm	Battery 1	2&3	156400	782	21.43	22.20	1.194	-0.01	0.493	0.589
	FR1 n13_Ant 1	10M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	156400	782	21.45	22.20	1.189	0.15	0.678	0.806



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	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 1	10M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	158600	793	24.05	24.50	1.109	0.03	0.154	0.171
	FR1 n14_Ant 1	10M	BPSK	25	14	Bottom Face	28mm	Battery 1	1	158600	793	24.04	24.50	1.112	0.18	0.143	0.159
	FR1 n14_Ant 1	10M	BPSK	1	1	Edge 4	20mm	Battery 1	1	158600	793	24.05	24.50	1.109	-0.15	0.119	0.132
	FR1 n14_Ant 1	10M	BPSK	25	14	Edge 4	20mm	Battery 1	1	158600	793	24.04	24.50	1.112	-0.04	0.112	0.125
18	FR1 n14_Ant 1	10M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	158600	793	21.57	22.30	1.183	-0.08	0.989	1.170
	FR1 n14_Ant 1	10M	BPSK	25	14	Bottom Face	0mm	Battery 1	2&3	158600	793	21.53	22.30	1.194	0.05	0.972	1.161
	FR1 n14_Ant 1	10M	BPSK	50	0	Bottom Face	0mm	Battery 1	2&3	158600	793	21.49	22.30	1.205	-0.15	0.956	1.152
	FR1 n14_Ant 1	10M	BPSK	1	1	Edge 1	0mm	Battery 1	1	158600	793	24.05	24.50	1.109	-0.19	0.065	0.072
	FR1 n14_Ant 1	10M	BPSK	25	14	Edge 1	0mm	Battery 1	1	158600	793	24.04	24.50	1.112	0.17	0.051	0.057
	FR1 n14_Ant 1	10M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	158600	793	21.57	22.30	1.183	0.01	0.361	0.427
	FR1 n14_Ant 1	10M	BPSK	25	14	Edge 4	0mm	Battery 1	2&3	158600	793	21.53	22.30	1.194	-0.11	0.352	0.420
	FR1 n14_Ant 1	10M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	158600	793	21.57	22.30	1.183	-0.08	0.664	0.786
	FR1 n25_Ant 1	40M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	376500	1882.5	24.29	24.50	1.050	0.06	0.347	0.364
	FR1 n25_Ant 1	40M	BPSK	108	54	Bottom Face	28mm	Battery 1	1	376500	1882.5	24.27	24.50	1.054	0.05	0.329	0.347
	FR1 n25_Ant 1	40M	BPSK	1	1	Edge 4	20mm	Battery 1	1	376500	1882.5	24.29	24.50	1.050	-0.14	0.566	0.594
	FR1 n25_Ant 1	40M	BPSK	108	54	Edge 4	20mm	Battery 1	1	376500	1882.5	24.27	24.50	1.054	0.12	0.538	0.567
19	FR1 n25_Ant 1	40M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	376500	1882.5	17.25	17.70	1.109	0.04	1.060	1.176
	FR1 n25_Ant 1	40M	BPSK	108	54	Bottom Face	0mm	Battery 1	2&3	376500	1882.5	17.21	17.70	1.119	0.15	1.010	1.131
	FR1 n25_Ant 1	40M	BPSK	216	0	Bottom Face	0mm	Battery 1	2&3	376500	1882.5	17.19	17.70	1.125	0.16	1.020	1.147
	FR1 n25_Ant 1	40M	BPSK	1	1	Edge 1	0mm	Battery 1	1	376500	1882.5	24.29	24.50	1.050	0	0.045	0.047
	FR1 n25_Ant 1	40M	BPSK	108	54	Edge 1	0mm	Battery 1	1	376500	1882.5	24.27	24.50	1.054	-0.06	0.039	0.041
	FR1 n25_Ant 1	40M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	376500	1882.5	17.25	17.70	1.109	-0.17	0.851	0.944
	FR1 n25_Ant 1	40M	BPSK	108	54	Edge 4	0mm	Battery 1	2&3	376500	1882.5	17.21	17.70	1.119	-0.1	0.821	0.919
	FR1 n25_Ant 1	40M	BPSK	216	0	Edge 4	0mm	Battery 1	2&3	376500	1882.5	17.19	17.70	1.125	-0.03	0.819	0.921
	FR1 n25_Ant 1	40M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	376500	1882.5	17.25	17.70	1.109	0.04	0.635	0.704
	FR1 n25_Ant 4	40M	BPSK	1	1	Bottom Face	24mm	Battery 1	1	376500	1882.5	24.20	24.50	1.072	0.19	0.308	0.330
	FR1 n25_Ant 4	40M	BPSK	108	54	Bottom Face	24mm	Battery 1	1	376500	1882.5	24.09	24.50	1.099	-0.04	0.296	0.325
	FR1 n25_Ant 4	40M	BPSK	1	1	Edge 1	27mm	Battery 1	1	376500	1882.5	24.20	24.50	1.072	-0.01	0.090	0.096
	FR1 n25_Ant 4	40M	BPSK	108	54	Edge 1	27mm	Battery 1	1	376500	1882.5	24.09	24.50	1.099	-0.18	0.087	0.096
	FR1 n25_Ant 4	40M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	376500	1882.5	16.72	17.30	1.143	0.09	1.010	1.154
	FR1 n25_Ant 4	40M	BPSK	108	54	Bottom Face	0mm	Battery 1	2&3	376500	1882.5	16.67	17.30	1.156	0.04	0.979	1.132
	FR1 n25_Ant 4	40M	BPSK	216	0	Bottom Face	0mm	Battery 1	2&3	376500	1882.5	16.65	17.30	1.161	-0.17	0.943	1.095
	FR1 n25_Ant 4	40M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	376500	1882.5	16.72	17.30	1.143	0.05	0.955	1.091
	FR1 n25_Ant 4	40M	BPSK	108	54	Edge 1	0mm	Battery 1	2&3	376500	1882.5	16.67	17.30	1.156	0.18	0.933	1.079
	FR1 n25_Ant 4	40M	BPSK	216	0	Edge 1	0mm	Battery 1	2&3	376500	1882.5	16.65	17.30	1.161	-0.11	0.912	1.059
	FR1 n25_Ant 4	40M	BPSK	1	1	Edge 4	0mm	Battery 1	1	376500	1882.5	24.20	24.50	1.072	0.18	0.306	0.328
	FR1 n25_Ant 4	40M	BPSK	108	54	Edge 4	0mm	Battery 1	1	376500	1882.5	24.09	24.50	1.099	-0.09	0.293	0.322
	FR1 n25_Ant 4	40M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	376500	1882.5	16.72	17.30	1.143	0.09	0.978	1.118
	FR1 n26_Ant 1	20M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	166300	831.5	24.43	24.50	1.016	0.12	0.217	0.221
	FR1 n26_Ant 1	20M	BPSK	50	28	Bottom Face	28mm	Battery 1	1	166300	831.5	24.41	24.50	1.021	-0.17	0.205	0.209
	FR1 n26_Ant 1	20M	BPSK	1	1	Edge 4	20mm	Battery 1	1	166300	831.5	24.43	24.50	1.016	-0.1	0.196	0.199
	FR1 n26_Ant 1	20M	BPSK	50	28	Edge 4	20mm	Battery 1	1	166300	831.5	24.41	24.50	1.021	-0.15	0.183	0.187
20	FR1 n26_Ant 1	20M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	166300	831.5	20.53	21.10	1.140	0.13	1.020	1.163
	FR1 n26_Ant 1	20M	BPSK	50	28	Bottom Face	0mm	Battery 1	2&3	166300	831.5	20.49	21.10	1.151	-0.09	0.987	1.136
	FR1 n26_Ant 1	20M	BPSK	100	0	Bottom Face	0mm	Battery 1	2&3	166300	831.5	20.48	21.10	1.153	0.19	0.963	1.111
	FR1 n26_Ant 1	20M	BPSK	1	1	Edge 1	0mm	Battery 1	1	166300	831.5	24.43	24.50	1.016	0.16	0.272	0.276
	FR1 n26_Ant 1	20M	BPSK	50	28	Edge 1	0mm	Battery 1	1	166300	831.5	24.41	24.50	1.021	-0.06	0.253	0.258
	FR1 n26_Ant 1	20M	BPSK	1	1	Edge 3	0mm	Battery 1	1	166300	831.5	24.43	24.50	1.016	0.13	0.113	0.115
	FR1 n26_Ant 1	20M	BPSK	50	28	Edge 3	0mm	Battery 1	1	166300	831.5	24.41	24.50	1.021	0.13	0.108	0.110
	FR1 n26_Ant 1	20M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	166300	831.5	20.53	21.10	1.140	-0.19	0.453	0.517
	FR1 n26_Ant 1	20M	BPSK	50	28	Edge 4	0mm	Battery 1	2&3	166300	831.5	20.49	21.10	1.151	0.17	0.427	0.491
	FR1 n26_Ant 1	20M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	166300	831.5	20.53	21.10	1.140	0.13	0.592	0.675



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	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 3	10M	BPSK	1	1	Bottom Face	24mm	Battery 1	1	462000	2310	22.96	23.00	1.009	-0.05	0.098	0.099
	FR1 n30_Ant 3	10M	BPSK	25	14	Bottom Face	24mm	Battery 1	1	462000	2310	22.88	23.00	1.028	-0.07	0.084	0.086
	FR1 n30_Ant 3	10M	BPSK	1	1	Edge 1	25mm	Battery 1	1	462000	2310	22.96	23.00	1.009	0.08	0.211	0.213
	FR1 n30_Ant 3	10M	BPSK	25	14	Edge 1	25mm	Battery 1	1	462000	2310	22.88	23.00	1.028	-0.01	0.202	0.208
21	FR1 n30_Ant 3	10M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	462000	2310	17.51	17.90	1.094	0.03	1.080	1.181
	FR1 n30_Ant 3	10M	BPSK	25	14	Bottom Face	0mm	Battery 1	2&3	462000	2310	17.44	17.90	1.112	0.1	1.010	1.123
	FR1 n30_Ant 3	10M	BPSK	50	0	Bottom Face	0mm	Battery 1	2&3	462000	2310	17.43	17.90	1.114	-0.16	1.030	1.148
	FR1 n30_Ant 3	10M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	462000	2310	17.51	17.90	1.094	-0.09	0.581	0.636
	FR1 n30_Ant 3	10M	BPSK	25	14	Edge 1	0mm	Battery 1	2&3	462000	2310	17.44	17.90	1.112	-0.02	0.560	0.623
	FR1 n30_Ant 3	10M	BPSK	1	1	Edge 4	0mm	Battery 1	1	462000	2310	22.96	23.00	1.009	0.02	0.105	0.106
	FR1 n30_Ant 3	10M	BPSK	25	14	Edge 4	0mm	Battery 1	1	462000	2310	22.88	23.00	1.028	0.07	0.101	0.104
	FR1 n30_Ant 3	10M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	462000	2310	17.51	17.90	1.094	0.03	0.910	0.996
	FR1 n66_Ant 1	40M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	349000	1745	24.08	24.50	1.102	0.09	0.437	0.481
	FR1 n66_Ant 1	40M	BPSK	108	54	Bottom Face	28mm	Battery 1	1	349000	1745	24.01	24.50	1.119	0.14	0.419	0.469
	FR1 n66_Ant 1	40M	BPSK	1	1	Edge 4	20mm	Battery 1	1	349000	1745	24.08	24.50	1.102	-0.02	0.846	0.932
	FR1 n66_Ant 1	40M	BPSK	108	54	Edge 4	20mm	Battery 1	1	349000	1745	24.01	24.50	1.119	0.09	0.813	0.910
	FR1 n66_Ant 1	40M	BPSK	216	0	Edge 4	20mm	Battery 1	1	349000	1745	23.55	24.00	1.109	0.03	0.785	0.871
22	FR1 n66_Ant 1	40M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	349000	1745	15.28	16.00	1.180	0.13	1.000	1.180
	FR1 n66_Ant 1	40M	BPSK	108	54	Bottom Face	0mm	Battery 1	2&3	349000	1745	15.25	16.00	1.189	0.19	0.974	1.158
	FR1 n66_Ant 1	40M	BPSK	216	0	Bottom Face	0mm	Battery 1	2&3	349000	1745	15.22	16.00	1.197	0.05	0.953	1.140
	FR1 n66_Ant 1	40M	BPSK	1	1	Edge 1	0mm	Battery 1	1	349000	1745	24.08	24.50	1.102	0.08	0.060	0.066
	FR1 n66_Ant 1	40M	BPSK	108	54	Edge 1	0mm	Battery 1	1	349000	1745	24.01	24.50	1.119	-0.12	0.053	0.059
	FR1 n66_Ant 1	40M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	349000	1745	15.28	16.00	1.180	-0.01	0.834	0.984
	FR1 n66_Ant 1	40M	BPSK	108	54	Edge 4	0mm	Battery 1	2&3	349000	1745	15.25	16.00	1.189	-0.07	0.819	0.973
	FR1 n66_Ant 1	40M	BPSK	216	0	Edge 4	0mm	Battery 1	2&3	349000	1745	15.22	16.00	1.197	-0.05	0.820	0.981
	FR1 n66_Ant 1	40M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	349000	1745	15.28	16.00	1.180	0.13	0.596	0.703
	FR1 n66_Ant 4	40M	BPSK	1	1	Bottom Face	24mm	Battery 1	1	349000	1745	24.10	24.50	1.096	0.16	0.253	0.277
	FR1 n66_Ant 4	40M	BPSK	108	54	Bottom Face	24mm	Battery 1	1	349000	1745	24.07	24.50	1.104	0.14	0.229	0.253
	FR1 n66_Ant 4	40M	BPSK	1	1	Edge 1	27mm	Battery 1	1	349000	1745	24.10	24.50	1.096	-0.14	0.236	0.259
	FR1 n66_Ant 4	40M	BPSK	108	54	Edge 1	27mm	Battery 1	1	349000	1745	24.07	24.50	1.104	0.15	0.217	0.240
	FR1 n66_Ant 4	40M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	349000	1745	16.72	17.10	1.091	0.09	1.060	1.157
	FR1 n66_Ant 4	40M	BPSK	108	54	Bottom Face	0mm	Battery 1	2&3	349000	1745	16.70	17.10	1.096	-0.17	1.030	1.129
	FR1 n66_Ant 4	40M	BPSK	216	0	Bottom Face	0mm	Battery 1	2&3	349000	1745	16.64	17.10	1.112	-0.08	1.010	1.123
	FR1 n66_Ant 4	40M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	349000	1745	16.72	17.10	1.091	0.13	0.992	1.083
	FR1 n66_Ant 4	40M	BPSK	108	54	Edge 1	0mm	Battery 1	2&3	349000	1745	16.70	17.10	1.096	0.09	0.982	1.077
	FR1 n66_Ant 4	40M	BPSK	216	0	Edge 1	0mm	Battery 1	2&3	349000	1745	16.64	17.10	1.112	-0.03	0.976	1.085
	FR1 n66_Ant 4	40M	BPSK	1	1	Edge 4	0mm	Battery 1	1	349000	1745	24.10	24.50	1.096	-0.1	0.133	0.146
	FR1 n66_Ant 4	40M	BPSK	108	54	Edge 4	0mm	Battery 1	1	349000	1745	24.07	24.50	1.104	0.12	0.125	0.138
	FR1 n66_Ant 4	40M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	349000	1745	16.72	17.10	1.091	0.09	1.030	1.124
	FR1 n71_Ant 1	20M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	136100	680.5	24.10	24.50	1.096	-0.12	0.158	0.173
	FR1 n71_Ant 1	20M	BPSK	50	28	Bottom Face	28mm	Battery 1	1	136100	680.5	24.07	24.50	1.104	0	0.146	0.161
	FR1 n71_Ant 1	20M	BPSK	1	1	Edge 4	20mm	Battery 1	1	136100	680.5	24.10	24.50	1.096	0.12	0.132	0.145
	FR1 n71_Ant 1	20M	BPSK	50	28	Edge 4	20mm	Battery 1	1	136100	680.5	24.07	24.50	1.104	0.06	0.127	0.140
23	FR1 n71_Ant 1	20M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	136100	680.5	21.97	22.40	1.104	-0.02	1.060	1.170
	FR1 n71_Ant 1	20M	BPSK	50	28	Bottom Face	0mm	Battery 1	2&3	136100	680.5	21.93	22.40	1.114	0.17	1.030	1.148
	FR1 n71_Ant 1	20M	BPSK	100	0	Bottom Face	0mm	Battery 1	2&3	136100	680.5	21.92	22.40	1.117	0.09	1.020	1.139
	FR1 n71_Ant 1	20M	BPSK	1	1	Edge 1	0mm	Battery 1	1	136100	680.5	24.10	24.50	1.096	-0.05	0.079	0.087
	FR1 n71_Ant 1	20M	BPSK	50	28	Edge 1	0mm	Battery 1	1	136100	680.5	24.07	24.50	1.104	-0.17	0.068	0.075
	FR1 n71_Ant 1	20M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	136100	680.5	21.97	22.40	1.104	-0.09	0.443	0.489
	FR1 n71_Ant 1	20M	BPSK	50	28	Edge 4	0mm	Battery 1	2&3	136100	680.5	21.93	22.40	1.114	-0.14	0.429	0.478
	FR1 n71_Ant 1	20M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	136100	680.5	21.97	22.40	1.104	-0.02	0.816	0.901



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n41_HPUE_Ant 3	100M	BPSK	1	1	Bottom Face	24mm	Battery 1	1	518598	2592.99	26.38	27.00	1.153	100	1.000	0.17	0.168	0.194
	FR1 n41_HPUE_Ant 3	100M	BPSK	135	69	Bottom Face	24mm	Battery 1	1	518598	2592.99	26.22	27.00	1.197	100	1.000	-0.19	0.143	0.171
	FR1 n41_HPUE_Ant 3	100M	BPSK	1	1	Edge 1	25mm	Battery 1	1	518598	2592.99	26.38	27.00	1.153	100	1.000	0.06	0.453	0.523
	FR1 n41_HPUE_Ant 3	100M	BPSK	135	69	Edge 1	25mm	Battery 1	1	518598	2592.99	26.22	27.00	1.197	100	1.000	-0.11	0.429	0.513
	FR1 n41_HPUE_Ant 3	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	15.81	16.80	1.256	100	1.000	0.07	0.928	1.166
	FR1 n41_HPUE_Ant 3	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	15.77	16.80	1.268	100	1.000	0.01	0.897	1.137
	FR1 n41_HPUE_Ant 3	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	15.75	16.80	1.274	100	1.000	0.17	0.899	1.145
	FR1 n41_HPUE_Ant 3	100M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	518598	2592.99	15.81	16.80	1.256	100	1.000	0.14	0.618	0.776
	FR1 n41_HPUE_Ant 3	100M	BPSK	135	69	Edge 1	0mm	Battery 1	2&3	518598	2592.99	15.77	16.80	1.268	100	1.000	-0.04	0.602	0.763
	FR1 n41_HPUE_Ant 3	100M	BPSK	1	1	Edge 4	0mm	Battery 1	1	518598	2592.99	26.38	27.00	1.153	100	1.000	-0.17	0.341	0.393
	FR1 n41_HPUE_Ant 3	100M	BPSK	135	69	Edge 4	0mm	Battery 1	1	518598	2592.99	26.22	27.00	1.197	100	1.000	-0.19	0.323	0.387
	FR1 n41_HPUE_Ant 3	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	518598	2592.99	15.81	16.80	1.256	100	1.000	0.07	0.872	1.095
24	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	14.06	14.50	1.107	100	1.000	0.03	1.070	1.184
	FR1 n41_HPUE_Ant 2	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	14.02	14.50	1.117	100	1.000	0.14	1.020	1.139
	FR1 n41_HPUE_Ant 2	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	13.98	14.50	1.127	100	1.000	-0.19	0.996	1.123
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	518598	2592.99	14.06	14.50	1.107	100	1.000	-0.09	0.108	0.120
	FR1 n41_HPUE_Ant 2	100M	BPSK	135	69	Edge 1	0mm	Battery 1	2&3	518598	2592.99	14.02	14.50	1.117	100	1.000	0.13	0.102	0.114
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	518598	2592.99	14.06	14.50	1.107	100	1.000	0.17	0.337	0.373
	FR1 n41_HPUE_Ant 2	100M	BPSK	135	69	Edge 4	0mm	Battery 1	2&3	518598	2592.99	14.02	14.50	1.117	100	1.000	-0.12	0.324	0.362
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	518598	2592.99	14.06	14.50	1.107	100	1.000	0.03	0.477	0.528
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	12.69	13.80	1.291	100	1.000	-0.13	0.887	1.145
	FR1 n41_HPUE_Ant 5	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	12.66	13.80	1.300	100	1.000	0.17	0.845	1.099
	FR1 n41_HPUE_Ant 5	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	12.59	13.80	1.321	100	1.000	-0.1	0.842	1.113
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Edge 3	0mm	Battery 1	2&3	518598	2592.99	12.69	13.80	1.291	100	1.000	0.04	0.125	0.161
	FR1 n41_HPUE_Ant 5	100M	BPSK	135	69	Edge 3	0mm	Battery 1	2&3	518598	2592.99	12.66	13.80	1.300	100	1.000	0.04	0.119	0.155
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	518598	2592.99	12.69	13.80	1.291	100	1.000	-0.12	0.526	0.679
	FR1 n41_HPUE_Ant 5	100M	BPSK	135	69	Edge 4	0mm	Battery 1	2&3	518598	2592.99	12.66	13.80	1.300	100	1.000	0.12	0.507	0.659
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	518598	2592.99	12.69	13.80	1.291	100	1.000	-0.13	0.172	0.222
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	518598	2592.99	22.87	23.50	1.156	100	1.000	0.05	0.211	0.244
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	28mm	Battery 1	1	518598	2592.99	22.81	23.50	1.172	100	1.000	-0.13	0.205	0.240
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	30mm	Battery 1	1	518598	2592.99	22.87	23.50	1.156	100	1.000	-0.05	0.191	0.221
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	30mm	Battery 1	1	518598	2592.99	22.81	23.50	1.172	100	1.000	0.02	0.179	0.210
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	3	518598	2592.99	14.46	15.30	1.213	100	1.000	-0.05	0.890	1.080
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	3	518598	2592.99	14.42	15.30	1.225	100	1.000	0.01	0.876	1.073
	FR1 n41_HPUE_Ant 6	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	3	518598	2592.99	14.38	15.30	1.236	100	1.000	0.09	0.862	1.065
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	0mm	Battery 1	3	518598	2592.99	14.46	15.30	1.213	100	1.000	-0.12	0.428	0.519
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	0mm	Battery 1	3	518598	2592.99	14.42	15.30	1.225	100	1.000	0.04	0.415	0.508
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Edge 3	0mm	Battery 1	1	518598	2592.99	22.87	23.50	1.156	100	1.000	-0.06	0.046	0.053
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Edge 3	0mm	Battery 1	1	518598	2592.99	22.81	23.50	1.172	100	1.000	-0.01	0.042	0.049
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	3	518598	2592.99	14.46	15.30	1.213	100	1.000	-0.05	0.323	0.392
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	518598	2592.99	22.87	23.50	1.156	100	1.000	0.05	0.211	0.244
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	28mm	Battery 1	1	518598	2592.99	22.81	23.50	1.172	100	1.000	-0.13	0.205	0.240
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	30mm	Battery 1	1	518598	2592.99	22.87	23.50	1.156	100	1.000	-0.05	0.191	0.221
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	30mm	Battery 1	1	518598	2592.99	22.81	23.50	1.172	100	1.000	0.02	0.179	0.210
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2	518598	2592.99	6.76	7.60	1.213	100	1.000	0.07	0.151	0.183
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2	518598	2592.99	6.72	7.60	1.225	100	1.000	0.12	0.139	0.170
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	0mm	Battery 1	2	518598	2592.99	6.76	7.60	1.213	100	1.000	0.12	0.057	0.069
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	0mm	Battery 1	2	518598	2592.99	6.72	7.60	1.225	100	1.000	-0.08	0.052	0.064
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Edge 3	0mm	Battery 1	1	518598	2592.99	22.87	23.50	1.156	100	1.000	-0.06	0.046	0.053
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Edge 3	0mm	Battery 1	1	518598	2592.99	22.81	23.50	1.172	100	1.000	-0.01	0.042	0.049
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	28mm	Battery 2	1	518598	2592.99	22.87	23.50	1.156	100	1.000	0.05	0.208	0.240



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n48_Ant 3	40M	BPSK	1	0	Bottom Face	24mm	Battery 1	1	638000	3570	20.78	22.00	1.324	100	1.000	0.13	0.592	0.784
	FR1 n48_Ant 3	40M	BPSK	1	0	Bottom Face	24mm	Battery 1	1	641667	3625	20.76	22.00	1.330	100	1.000	-0.17	0.600	0.798
	FR1 n48_Ant 3	40M	BPSK	1	0	Bottom Face	24mm	Battery 1	1	645333	3680	20.56	22.00	1.393	100	1.000	0.11	0.556	0.775
	FR1 n48_Ant 3	40M	BPSK	50	25	Bottom Face	24mm	Battery 1	1	641667	3625	17.27	19.00	1.489	100	1.000	0.1	0.254	0.378
	FR1 n48_Ant 3	40M	BPSK	1	0	Edge 1	25mm	Battery 1	1	638000	3570	20.78	22.00	1.324	100	1.000	-0.02	0.192	0.254
	FR1 n48_Ant 3	40M	BPSK	50	25	Edge 1	25mm	Battery 1	1	641667	3625	17.27	19.00	1.489	100	1.000	-0.12	0.092	0.137
	FR1 n48_Ant 3	20M	BPSK	25	12	Bottom Face	24mm	Battery 1	1	637334	3560.01	17.15	19.00	1.531	100	1.000	0.15	0.244	0.374
	FR1 n48_Ant 3	10M	BPSK	12	6	Bottom Face	24mm	Battery 1	1	641667	3625	21.24	22.00	1.191	100	1.000	0.12	0.577	0.687
	FR1 n48_Ant 3	10M	BPSK	12	6	Bottom Face	24mm	Battery 1	1	637000	3555	21.06	22.00	1.242	100	1.000	-0.11	0.562	0.698
	FR1 n48_Ant 3	10M	BPSK	12	6	Bottom Face	24mm	Battery 1	1	646332	3694.98	20.70	22.00	1.349	100	1.000	0.17	0.557	0.751
25	FR1 n48_Ant 3	40M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	641667	3625	9.77	10.30	1.130	100	1.000	0.06	0.815	0.921
	FR1 n48_Ant 3	40M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	638000	3570	9.70	10.30	1.148	100	1.000	0.1	0.547	0.628
	FR1 n48_Ant 3	40M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	645333	3680	9.72	10.30	1.143	100	1.000	0.01	0.681	0.778
	FR1 n48_Ant 3	40M	BPSK	50	25	Bottom Face	0mm	Battery 1	2&3	641667	3625	9.73	10.30	1.140	100	1.000	-0.05	0.794	0.905
	FR1 n48_Ant 3	40M	BPSK	50	25	Bottom Face	0mm	Battery 1	2&3	638000	3570	9.61	10.30	1.172	100	1.000	-0.17	0.538	0.631
	FR1 n48_Ant 3	40M	BPSK	50	25	Bottom Face	0mm	Battery 1	2&3	645333	3680	9.60	10.30	1.175	100	1.000	-0.15	0.629	0.739
	FR1 n48_Ant 3	40M	BPSK	100	0	Bottom Face	0mm	Battery 1	2&3	641667	3625	9.72	10.30	1.143	100	1.000	0.06	0.735	0.840
	FR1 n48_Ant 3	40M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	641667	3625	9.77	10.30	1.130	100	1.000	0.13	0.239	0.270
	FR1 n48_Ant 3	40M	BPSK	50	25	Edge 1	0mm	Battery 1	2&3	641667	3625	9.73	10.30	1.140	100	1.000	0.12	0.235	0.268
	FR1 n48_Ant 3	40M	BPSK	1	0	Edge 4	0mm	Battery 1	1	638000	3570	20.78	22.00	1.324	100	1.000	0.02	0.140	0.185
	FR1 n48_Ant 3	40M	BPSK	50	25	Edge 4	0mm	Battery 1	1	641667	3625	17.27	19.00	1.489	100	1.000	-0.11	0.072	0.107
	FR1 n48_Ant 3	40M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	641667	3625	9.77	10.30	1.130	100	1.000	0.06	0.789	0.891

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
26	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Bottom Face	24mm	Battery 1	1	656000	3840	20.35	21.70	1.365	100	1.000	0.14	0.874	1.193
	FR1 n77_HPUE_Ant 3	100M	BPSK	135	69	Bottom Face	24mm	Battery 1	1	656000	3840	20.27	21.70	1.390	100	1.000	0.1	0.806	1.120
	FR1 n77_HPUE_Ant 3	100M	BPSK	270	0	Bottom Face	24mm	Battery 1	1	656000	3840	20.24	21.70	1.400	100	1.000	0.05	0.812	1.136
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Edge 1	25mm	Battery 1	1	656000	3840	20.35	21.70	1.365	100	1.000	-0.12	0.188	0.257
	FR1 n77_HPUE_Ant 3	100M	BPSK	135	69	Edge 1	25mm	Battery 1	1	656000	3840	20.27	21.70	1.390	100	1.000	0.06	0.172	0.239
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	656000	3840	9.35	10.60	1.334	100	1.000	0.07	0.719	0.959
	FR1 n77_HPUE_Ant 3	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2&3	656000	3840	9.33	10.60	1.340	100	1.000	-0.06	0.706	0.946
	FR1 n77_HPUE_Ant 3	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	2&3	656000	3840	9.27	10.60	1.358	100	1.000	-0.06	0.685	0.930
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	656000	3840	9.35	10.60	1.334	100	1.000	-0.17	0.332	0.443
	FR1 n77_HPUE_Ant 3	100M	BPSK	135	69	Edge 1	0mm	Battery 1	2&3	656000	3840	9.33	10.60	1.340	100	1.000	-0.09	0.323	0.433
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Edge 4	0mm	Battery 1	1	656000	3840	20.35	21.70	1.365	100	1.000	0.16	0.482	0.658
	FR1 n77_HPUE_Ant 3	100M	BPSK	135	69	Edge 4	0mm	Battery 1	1	656000	3840	20.27	21.70	1.390	100	1.000	0.12	0.453	0.630
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Bottom Face	24mm	Battery 2	1	656000	3840	20.35	21.70	1.365	100	1.000	0.14	0.802	1.094
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Bottom Face	24mm	Battery 1	1	633332	3499.98	20.25	21.70	1.396	100	1.000	-0.07	0.238	0.332
	FR1 n77_HPUE_Ant 3	100M	BPSK	135	69	Bottom Face	24mm	Battery 1	1	633332	3499.98	20.24	21.70	1.400	100	1.000	0.15	0.222	0.311
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Edge 1	25mm	Battery 1	1	633332	3499.98	20.25	21.70	1.396	100	1.000	-0.05	0.144	0.201
	FR1 n77_HPUE_Ant 3	100M	BPSK	135	69	Edge 1	25mm	Battery 1	1	633332	3499.98	20.24	21.70	1.400	100	1.000	-0.04	0.132	0.185
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	633332	3499.98	9.25	10.60	1.365	100	1.000	0.06	0.496	0.677
	FR1 n77_HPUE_Ant 3	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2&3	633332	3499.98	9.22	10.60	1.374	100	1.000	0.19	0.473	0.650
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	633332	3499.98	9.25	10.60	1.365	100	1.000	-0.05	0.097	0.132
	FR1 n77_HPUE_Ant 3	100M	BPSK	135	69	Edge 1	0mm	Battery 1	2&3	633332	3499.98	9.22	10.60	1.374	100	1.000	-0.11	0.088	0.121
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Edge 4	0mm	Battery 1	1	633332	3499.98	20.25	21.70	1.396	100	1.000	-0.16	0.093	0.130
	FR1 n77_HPUE_Ant 3	100M	BPSK	135	69	Edge 4	0mm	Battery 1	1	633332	3499.98	20.24	21.70	1.400	100	1.000	0.1	0.054	0.076
	FR1 n77_HPUE_Ant 3	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	633332	3499.98	9.25	10.60	1.365	100	1.000	0.06	0.381	0.520



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	656000	3840	9.57	10.50	1.239	100	1.000	-0.14	0.719	0.891
	FR1 n77_HPUE_Ant 2	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2&3	656000	3840	9.54	10.50	1.247	100	1.000	-0.18	0.702	0.876
	FR1 n77_HPUE_Ant 2	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	2&3	656000	3840	9.47	10.50	1.268	100	1.000	0.09	0.683	0.866
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	656000	3840	9.57	10.50	1.239	100	1.000	0.02	0.020	0.025
	FR1 n77_HPUE_Ant 2	100M	BPSK	135	69	Edge 1	0mm	Battery 1	2&3	656000	3840	9.54	10.50	1.247	100	1.000	0.16	0.016	0.020
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	656000	3840	9.57	10.50	1.239	100	1.000	-0.07	0.272	0.337
	FR1 n77_HPUE_Ant 2	100M	BPSK	135	69	Edge 4	0mm	Battery 1	2&3	656000	3840	9.54	10.50	1.247	100	1.000	0.16	0.259	0.323
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	656000	3840	9.57	10.50	1.239	100	1.000	-0.14	0.299	0.370
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	633332	3499.98	9.51	10.50	1.256	100	1.000	-0.13	0.925	1.162
	FR1 n77_HPUE_Ant 2	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2&3	633332	3499.98	9.47	10.50	1.268	100	1.000	-0.04	0.887	1.124
	FR1 n77_HPUE_Ant 2	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	2&3	633332	3499.98	9.42	10.50	1.282	100	1.000	-0.17	0.898	1.152
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Edge 1	0mm	Battery 1	2&3	633332	3499.98	9.51	10.50	1.256	100	1.000	0	0.018	0.023
	FR1 n77_HPUE_Ant 2	100M	BPSK	135	69	Edge 1	0mm	Battery 1	2&3	633332	3499.98	9.47	10.50	1.268	100	1.000	0.05	0.011	0.014
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	633332	3499.98	9.51	10.50	1.256	100	1.000	0.11	0.284	0.357
	FR1 n77_HPUE_Ant 2	100M	BPSK	135	69	Edge 4	0mm	Battery 1	2&3	633332	3499.98	9.47	10.50	1.268	100	1.000	0.16	0.268	0.340
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	633332	3499.98	9.51	10.50	1.256	100	1.000	-0.13	0.427	0.536
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	656000	3840	11.27	12.00	1.183	100	1.000	0.18	0.993	1.175
	FR1 n77_HPUE_Ant 5	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2&3	656000	3840	11.25	12.00	1.189	100	1.000	-0.1	0.946	1.124
	FR1 n77_HPUE_Ant 5	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	2&3	656000	3840	11.20	12.00	1.202	100	1.000	0.05	0.937	1.127
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Edge 3	0mm	Battery 1	2&3	656000	3840	11.27	12.00	1.183	100	1.000	-0.08	0.050	0.059
	FR1 n77_HPUE_Ant 5	100M	BPSK	135	69	Edge 3	0mm	Battery 1	2&3	656000	3840	11.25	12.00	1.189	100	1.000	-0.06	0.043	0.051
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	656000	3840	11.27	12.00	1.183	100	1.000	0	0.317	0.375
	FR1 n77_HPUE_Ant 5	100M	BPSK	135	69	Edge 4	0mm	Battery 1	2&3	656000	3840	11.25	12.00	1.189	100	1.000	-0.06	0.292	0.347
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	656000	3840	11.27	12.00	1.183	100	1.000	0.18	0.191	0.226
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2&3	633332	3499.98	11.23	12.00	1.194	100	1.000	-0.02	0.713	0.851
	FR1 n77_HPUE_Ant 5	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2&3	633332	3499.98	11.22	12.00	1.197	100	1.000	-0.09	0.695	0.832
	FR1 n77_HPUE_Ant 5	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	2&3	633332	3499.98	11.14	12.00	1.219	100	1.000	-0.02	0.681	0.830
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Edge 3	0mm	Battery 1	2&3	633332	3499.98	11.23	12.00	1.194	100	1.000	-0.03	0.043	0.051
	FR1 n77_HPUE_Ant 5	100M	BPSK	135	69	Edge 3	0mm	Battery 1	2&3	633332	3499.98	11.22	12.00	1.197	100	1.000	-0.06	0.035	0.042
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Edge 4	0mm	Battery 1	2&3	633332	3499.98	11.23	12.00	1.194	100	1.000	-0.11	0.291	0.347
	FR1 n77_HPUE_Ant 5	100M	BPSK	135	69	Edge 4	0mm	Battery 1	2&3	633332	3499.98	11.22	12.00	1.197	100	1.000	-0.06	0.274	0.328
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	2&3	633332	3499.98	11.23	12.00	1.194	100	1.000	-0.02	0.121	0.144



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	656000	3840	24.00	25.00	1.259	100	1.000	-0.11	0.271	0.341
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	28mm	Battery 1	1	656000	3840	23.82	25.00	1.312	100	1.000	-0.17	0.245	0.321
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	30mm	Battery 1	1	656000	3840	24.00	25.00	1.259	100	1.000	0.01	0.160	0.201
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	30mm	Battery 1	1	656000	3840	23.82	25.00	1.312	100	1.000	-0.17	0.148	0.194
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	3	656000	3840	12.47	12.70	1.054	100	1.000	-0.18	1.070	1.128
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	3	656000	3840	12.45	12.70	1.059	100	1.000	-0.19	1.010	1.070
	FR1 n77_HPUE_Ant 6	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	3	656000	3840	12.40	12.70	1.072	100	1.000	0.11	0.996	1.067
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	0mm	Battery 1	3	656000	3840	12.47	12.70	1.054	100	1.000	-0.1	0.332	0.350
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	0mm	Battery 1	3	656000	3840	12.45	12.70	1.059	100	1.000	-0.05	0.318	0.337
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 3	0mm	Battery 1	1	656000	3840	24.00	25.00	1.259	100	1.000	-0.18	0.038	0.048
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 3	0mm	Battery 1	1	656000	3840	23.82	25.00	1.312	100	1.000	-0.1	0.035	0.046
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	3	656000	3840	12.47	12.70	1.054	100	1.000	-0.18	0.196	0.207
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	633332	3499.98	23.91	25.00	1.285	100	1.000	0.01	0.092	0.118
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	28mm	Battery 1	1	633332	3499.98	23.68	25.00	1.355	100	1.000	0.03	0.083	0.112
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	30mm	Battery 1	1	633332	3499.98	23.91	25.00	1.285	100	1.000	-0.04	0.055	0.071
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	30mm	Battery 1	1	633332	3499.98	23.68	25.00	1.355	100	1.000	-0.03	0.051	0.069
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	3	633332	3499.98	12.43	12.70	1.064	100	1.000	-0.17	0.724	0.770
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	3	633332	3499.98	12.42	12.70	1.067	100	1.000	-0.14	0.663	0.707
	FR1 n77_HPUE_Ant 6	100M	BPSK	270	0	Bottom Face	0mm	Battery 1	3	633332	3499.98	12.34	12.70	1.086	100	1.000	0.06	0.692	0.752
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	30mm	Battery 1	1	633332	3499.98	23.91	25.00	1.285	100	1.000	-0.08	0.067	0.086
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	30mm	Battery 1	1	633332	3499.98	23.68	25.00	1.355	100	1.000	0.13	0.059	0.080
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	0mm	Battery 1	3	633332	3499.98	12.43	12.70	1.064	100	1.000	-0.1	0.225	0.239
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	0mm	Battery 1	3	633332	3499.98	12.42	12.70	1.067	100	1.000	0.18	0.210	0.224
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 3	0mm	Battery 1	1	633332	3499.98	23.91	25.00	1.285	100	1.000	0.15	0.028	0.036
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 3	0mm	Battery 1	1	633332	3499.98	23.68	25.00	1.355	100	1.000	-0.19	0.022	0.030
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	3	633332	3499.98	12.43	12.70	1.064	100	1.000	-0.17	0.126	0.134
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	656000	3840	24.00	25.00	1.259	100	1.000	-0.11	0.271	0.341
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	28mm	Battery 1	1	656000	3840	23.82	25.00	1.312	100	1.000	-0.17	0.245	0.321
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	30mm	Battery 1	1	656000	3840	24.00	25.00	1.259	100	1.000	0.01	0.160	0.201
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	30mm	Battery 1	1	656000	3840	23.82	25.00	1.312	100	1.000	-0.17	0.148	0.194
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2	656000	3840	4.77	5.00	1.054	100	1.000	0.06	0.180	0.190
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2	656000	3840	4.75	5.00	1.059	100	1.000	-0.17	0.152	0.161
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	0mm	Battery 1	2	656000	3840	4.77	5.00	1.054	100	1.000	-0.12	0.060	0.063
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	0mm	Battery 1	2	656000	3840	4.75	5.00	1.059	100	1.000	-0.17	0.053	0.056
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 3	0mm	Battery 1	1	656000	3840	24.00	25.00	1.259	100	1.000	-0.18	0.038	0.048
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 3	0mm	Battery 1	1	656000	3840	23.82	25.00	1.312	100	1.000	-0.1	0.035	0.046
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	28mm	Battery 2	1	656000	3840	24.00	25.00	1.259	100	1.000	-0.11	0.250	0.315
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	28mm	Battery 1	1	633332	3499.98	23.91	25.00	1.285	100	1.000	0.01	0.092	0.118
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	28mm	Battery 1	1	633332	3499.98	23.68	25.00	1.355	100	1.000	0.03	0.083	0.112
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	30mm	Battery 1	1	633332	3499.98	23.91	25.00	1.285	100	1.000	-0.04	0.055	0.071
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	30mm	Battery 1	1	633332	3499.98	23.68	25.00	1.355	100	1.000	-0.03	0.051	0.069
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	0mm	Battery 1	2	633332	3499.98	4.73	5.00	1.064	100	1.000	0.15	0.125	0.133
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Bottom Face	0mm	Battery 1	2	633332	3499.98	4.72	5.00	1.067	100	1.000	0	0.109	0.116
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 2	0mm	Battery 1	2	633332	3499.98	4.73	5.00	1.064	100	1.000	-0.19	0.041	0.044
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 2	0mm	Battery 1	2	633332	3499.98	4.72	5.00	1.067	100	1.000	0.16	0.033	0.035
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Edge 3	0mm	Battery 1	1	633332	3499.98	23.91	25.00	1.285	100	1.000	0.15	0.028	0.036
	FR1 n77_HPUE_Ant 6	100M	BPSK	135	69	Edge 3	0mm	Battery 1	1	633332	3499.98	23.68	25.00	1.355	100	1.000	-0.19	0.022	0.030
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Bottom Face	0mm	Battery 2	2	633332	3499.98	4.73	5.00	1.064	100	1.000	0.15	0.080	0.085



FCC SAR TEST REPORT

Report No. : FA371211A

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Non-DBS/DBS	Power Reduction	Ch.	Freq. (MHz)	Battery	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)
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	14mm	Ant 7	Non-DBS/DBS	OFF	1	2412	Battery 1	23.00	23.00	1.000	98.2	1.018	0.03	0.408	0.415
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	11mm	Ant 7	Non-DBS/DBS	OFF	1	2412	Battery 1	23.00	23.00	1.000	98.2	1.018	-0.08	0.326	0.332
	WLAN2.4GHz	802.11b 1Mbps	Edge 2	3mm	Ant 7	Non-DBS/DBS	OFF	1	2412	Battery 1	23.00	23.00	1.000	98.2	1.018	0.09	0.389	0.396
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Non-DBS	ON	1	2412	Battery 1	17.50	17.50	1.000	98.2	1.018	0.14	0.856	0.871
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Non-DBS	ON	6	2437	Battery 1	17.40	17.50	1.023	98.2	1.018	0.06	0.821	0.855
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Non-DBS	ON	11	2462	Battery 1	17.20	17.50	1.072	98.2	1.018	0.03	0.929	1.013
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Ant 7	Non-DBS	ON	1	2412	Battery 1	17.50	17.50	1.000	98.2	1.018	-0.07	0.260	0.265
	WLAN2.4GHz	802.11b 1Mbps	Edge 2	0mm	Ant 7	Non-DBS	ON	1	2412	Battery 1	17.50	17.50	1.000	98.2	1.018	0.04	0.189	0.192
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	DBS	ON	1	2412	Battery 1	15.00	15.00	1.000	98.2	1.018	0.15	0.554	0.564
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Ant 7	DBS	ON	1	2412	Battery 1	15.00	15.00	1.000	98.2	1.018	0.15	0.190	0.193
	WLAN2.4GHz	802.11b 1Mbps	Edge 2	0mm	Ant 7	DBS	ON	1	2412	Battery 1	15.00	15.00	1.000	98.2	1.018	0.03	0.096	0.098
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Non-DBS	ON	11	2462	Battery 2	17.20	17.50	1.072	98.2	1.018	0.01	0.897	0.978
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Non-DBS	ON	1	2412	Battery 2	17.50	17.50	1.000	98.2	1.018	0.04	0.889	0.905
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7	Non-DBS	ON	6	2437	Battery 2	17.40	17.50	1.023	98.2	1.018	-0.13	0.862	0.898
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	14mm	Ant 8	Non-DBS/DBS	OFF	1	2412	Battery 1	22.40	23.00	1.148	98.2	1.018	0.01	0.116	0.136
	WLAN2.4GHz	802.11b 1Mbps	Edge 2	3mm	Ant 8	Non-DBS/DBS	OFF	1	2412	Battery 1	22.40	23.00	1.148	98.2	1.018	0.07	0.278	0.325
	WLAN2.4GHz	802.11b 1Mbps	Edge 3	0mm	Ant 8	Non-DBS/DBS	OFF	1	2412	Battery 1	22.40	23.00	1.148	98.2	1.018	0.04	0.192	0.224
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 8	Non-DBS	ON	1	2412	Battery 1	17.10	17.50	1.096	98.2	1.018	-0.08	0.553	0.617
	WLAN2.4GHz	802.11b 1Mbps	Edge 2	0mm	Ant 8	Non-DBS	ON	1	2412	Battery 1	17.10	17.50	1.096	98.2	1.018	0	0.349	0.390
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 8	DBS	ON	1	2412	Battery 1	14.50	15.00	1.122	98.2	1.018	0.02	0.255	0.291
	WLAN2.4GHz	802.11b 1Mbps	Edge 2	0mm	Ant 8	DBS	ON	1	2412	Battery 1	14.50	15.00	1.122	98.2	1.018	0.16	0.161	0.184
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 8	Non-DBS	ON	1	2412	Battery 2	17.10	17.50	1.096	98.2	1.018	-0.06	0.132	0.147
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	14mm	Ant 7+8(8)	Non-DBS/DBS	OFF	1	2412	Battery 1	22.40	23.00	1.148	98.2	1.018	-0.01	0.441	0.515
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	11mm	Ant 7+8(8)	Non-DBS/DBS	OFF	1	2412	Battery 1	22.40	23.00	1.148	98.2	1.018	-0.06	0.358	0.418
	WLAN2.4GHz	802.11b 1Mbps	Edge 2	3mm	Ant 7+8(8)	Non-DBS/DBS	OFF	1	2412	Battery 1	22.40	23.00	1.148	98.2	1.018	0.15	0.412	0.482
	WLAN2.4GHz	802.11b 1Mbps	Edge 3	0mm	Ant 7+8(8)	Non-DBS/DBS	OFF	1	2412	Battery 1	22.40	23.00	1.148	98.2	1.018	0.01	0.209	0.244
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	ON	1	2412	Battery 1	17.30	17.50	1.047	98.2	1.018	-0.13	0.875	0.933
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	ON	6	2437	Battery 1	17.20	17.50	1.072	98.2	1.018	-0.16	0.588	0.641
27	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	ON	11	2462	Battery 1	17.10	17.50	1.096	98.2	1.018	-0.01	0.915	1.021
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Ant 7+8(8)	Non-DBS	ON	1	2412	Battery 1	17.30	17.50	1.047	98.2	1.018	-0.06	0.388	0.414
	WLAN2.4GHz	802.11b 1Mbps	Edge 2	0mm	Ant 7+8(8)	Non-DBS	ON	1	2412	Battery 1	17.30	17.50	1.047	98.2	1.018	0.15	0.198	0.211
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7+8(8)	DBS	ON	1	2412	Battery 1	14.60	15.00	1.096	98.2	1.018	0.01	0.485	0.541
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Ant 7+8(8)	DBS	ON	1	2412	Battery 1	14.60	15.00	1.096	98.2	1.018	-0.06	0.191	0.213
	WLAN2.4GHz	802.11b 1Mbps	Edge 2	0mm	Ant 7+8(8)	DBS	ON	1	2412	Battery 1	14.60	15.00	1.096	98.2	1.018	-0.09	0.140	0.156
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	ON	11	2462	Battery 2	17.10	17.50	1.096	98.2	1.018	-0.02	0.875	0.977
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	ON	1	2412	Battery 2	17.30	17.50	1.047	98.2	1.018	-0.08	0.858	0.915
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	ON	6	2437	Battery 2	17.20	17.50	1.072	98.2	1.018	0.01	0.792	0.864



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Non-DBS/DBS	Power Reduction	Ch.	Freq. (MHz)	Battery	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)
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	14mm	Ant 7+8(7)	Non-DBS/DBS	OFF	54	5270	Battery 1	17.00	17.50	1.122	100	1.000	-0.09	0.484	0.543
	WLAN5GHz	802.11n-HT40 MCS0	Edge 1	11mm	Ant 7+8(7)	Non-DBS/DBS	OFF	54	5270	Battery 1	17.00	17.50	1.122	100	1.000	0.05	0.197	0.221
	WLAN5GHz	802.11n-HT40 MCS0	Edge 2	3mm	Ant 7+8(7)	Non-DBS/DBS	OFF	54	5270	Battery 1	17.00	17.50	1.122	100	1.000	0.14	0.453	0.508
	WLAN5GHz	802.11n-HT40 MCS0	Edge 3	0mm	Ant 7+8(7)	Non-DBS/DBS	OFF	54	5270	Battery 1	17.00	17.50	1.122	100	1.000	-0.11	0.098	0.110
28	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	50	5250	Battery 1	11.90	12.00	1.023	99.2	1.008	0	1.150	1.186
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	58	5290	Battery 1	11.80	12.00	1.047	99.4	1.006	0.07	1.019	1.073
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Ant 7+8(7)	Non-DBS	ON	50	5250	Battery 1	11.90	12.00	1.023	99.2	1.008	0.03	0.220	0.227
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 2	0mm	Ant 7+8(7)	Non-DBS	ON	50	5250	Battery 1	11.90	12.00	1.023	99.2	1.008	0.18	0.357	0.368
	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Ant 7+8(7)	DBS	ON	50	5250	Battery 1	9.30	9.50	1.047	99.2	1.008	0.05	0.614	0.648
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Ant 7+8(7)	DBS	ON	50	5250	Battery 1	9.30	9.50	1.047	99.2	1.008	0.13	0.106	0.112
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 2	0mm	Ant 7+8(7)	DBS	ON	50	5250	Battery 1	9.30	9.50	1.047	99.2	1.008	-0.19	0.124	0.131
	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	50	5250	Battery 2	11.90	12.00	1.023	99.4	1.006	0.02	1.090	1.122
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	58	5290	Battery 2	11.80	12.00	1.047	99.4	1.006	0.08	0.988	1.041
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	14mm	Ant 7+8(7)	Non-DBS/DBS	OFF	138	5690	Battery 1	16.80	17.50	1.175	99.4	1.006	-0.16	0.484	0.572
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 1	11mm	Ant 7+8(7)	Non-DBS/DBS	OFF	138	5690	Battery 1	16.80	17.50	1.175	99.4	1.006	-0.16	0.226	0.267
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 2	3mm	Ant 7+8(7)	Non-DBS/DBS	OFF	138	5690	Battery 1	16.80	17.50	1.175	99.4	1.006	-0.14	0.401	0.474
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 3	0mm	Ant 7+8(7)	Non-DBS/DBS	OFF	138	5690	Battery 1	16.80	17.50	1.175	99.4	1.006	0.01	0.135	0.160
	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	114	5570	Battery 1	10.80	11.00	1.047	99.2	1.008	-0.19	1.092	1.153
29	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	138	5690	Battery 1	10.90	11.00	1.023	99.4	1.006	-0.18	1.140	1.174
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Ant 7+8(7)	Non-DBS	ON	114	5570	Battery 1	10.80	11.00	1.047	99.2	1.008	0.07	0.354	0.374
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 2	0mm	Ant 7+8(7)	Non-DBS	ON	114	5570	Battery 1	10.80	11.00	1.047	99.2	1.008	0.06	0.138	0.146
	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Ant 7+8(7)	DBS	ON	114	5570	Battery 1	8.30	8.50	1.047	99.2	1.008	0.02	0.588	0.621
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Ant 7+8(7)	DBS	ON	114	5570	Battery 1	8.30	8.50	1.047	99.2	1.008	-0.05	0.156	0.165
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 2	0mm	Ant 7+8(7)	DBS	ON	114	5570	Battery 1	8.30	8.50	1.047	99.2	1.008	-0.18	0.101	0.107
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	138	5690	Battery 2	10.90	11.00	1.023	99.4	1.006	-0.11	1.025	1.055
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	106	5530	Battery 2	10.70	11.00	1.072	99.4	1.006	-0.05	0.994	1.071
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	122	5610	Battery 2	10.70	11.00	1.072	99.4	1.006	0.18	0.964	1.039
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	14mm	Ant 7+8(7)	Non-DBS/DBS	OFF	155	5775	Battery 1	16.90	17.50	1.148	99.4	1.006	-0.16	0.543	0.627
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 1	11mm	Ant 7+8(7)	Non-DBS/DBS	OFF	155	5775	Battery 1	16.90	17.50	1.148	99.4	1.006	-0.19	0.276	0.319
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 2	3mm	Ant 7+8(7)	Non-DBS/DBS	OFF	155	5775	Battery 1	16.90	17.50	1.148	99.4	1.006	-0.08	0.473	0.546
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 3	0mm	Ant 7+8(7)	Non-DBS/DBS	OFF	155	5775	Battery 1	16.90	17.50	1.148	99.4	1.006	-0.01	0.137	0.158
30	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	155	5775	Battery 1	10.00	10.50	1.122	99.4	1.006	-0.19	0.917	1.035
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	159	5795	Battery 1	10.20	10.50	1.072	99.7	1.003	0.13	0.891	0.958
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7+8(7)	Non-DBS	ON	155	5775	Battery 1	10.00	10.50	1.122	99.4	1.006	-0.01	0.345	0.389
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 2	0mm	Ant 7+8(7)	Non-DBS	ON	155	5775	Battery 1	10.00	10.50	1.122	99.4	1.006	-0.13	0.194	0.219
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7+8(7)	DBS	ON	155	5775	Battery 1	8.10	8.50	1.096	99.4	1.006	-0.19	0.496	0.547
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Ant 7+8(7)	DBS	ON	155	5775	Battery 1	8.10	8.50	1.096	99.4	1.006	0.09	0.157	0.173
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 2	0mm	Ant 7+8(7)	DBS	ON	155	5775	Battery 1	8.10	8.50	1.096	99.4	1.006	-0.02	0.092	0.101
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	155	5775	Battery 2	10.00	10.50	1.122	99.4	1.006	-0.04	0.855	0.965
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	ON	159	5795	Battery 2	10.20	10.50	1.072	99.4	1.006	0.01	0.832	0.897



FCC SAR TEST REPORT

Report No. : FA371211A

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Non-DBS/DBS	Power State	Ch.	Freq. (MHz)	Battery	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(8)	Non-DBS/DBS	1	15	6025	Battery 1	13.30	14.00	1.175	99.31	1.007	0.09	0.296	0.350	2.3	2.721
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(8)	Non-DBS/DBS	1	47	6185	Battery 1	13.60	14.00	1.096	99.31	1.007	0.13	0.268	0.296	2.09	2.308
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(7)	Non-DBS/DBS	1	111	6505	Battery 1	14.20	15.00	1.202	99.31	1.007	-0.02	0.337	0.408	2.66	3.220
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(8)	Non-DBS/DBS	1	143	6665	Battery 1	13.90	14.00	1.023	99.31	1.007	-0.11	0.493	0.508	3.75	3.864
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(7)	Non-DBS/DBS	1	207	6985	Battery 1	13.50	14.00	1.122	99.31	1.007	-0.01	0.348	0.393	2.75	3.107
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	11mm	Ant 7+8(8)	Non-DBS/DBS	1	111	6505	Battery 1	14.80	15.00	1.047	99.31	1.007	-0.16	0.142	0.150	1.08	1.139
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 2	3mm	Ant 7+8(8)	Non-DBS/DBS	1	111	6505	Battery 1	14.80	15.00	1.047	99.31	1.007	0.14	0.308	0.325	2.34	2.467
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 3	0mm	Ant 7+8(8)	Non-DBS/DBS	1	111	6505	Battery 1	14.80	15.00	1.047	99.31	1.007	0	0.088	0.093	0.67	0.706
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	2	15	6025	Battery 1	8.10	9.00	1.230	99.31	1.007	0.06	0.539	0.668	2.7	3.345
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	2	47	6185	Battery 1	8.10	9.00	1.230	99.31	1.007	-0.12	0.403	0.499	2.03	2.515
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	2	111	6505	Battery 1	9.10	10.00	1.230	99.31	1.007	-0.06	0.657	0.814	3.7	4.584
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	2	143	6665	Battery 1	9.40	9.50	1.023	99.31	1.007	0.09	0.637	0.656	3.82	3.936
31	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	2	207	6985	Battery 1	11.50	12.00	1.122	99.31	1.007	-0.07	0.836	0.945	5.25	5.932
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Ant 7+8(8)	Non-DBS	2	207	6985	Battery 1	11.50	12.00	1.122	99.31	1.007	0.05	0.246	0.278	1.54	1.740
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 2	0mm	Ant 7+8(8)	Non-DBS	2	207	6985	Battery 1	11.50	12.00	1.122	99.31	1.007	0.14	0.327	0.369	2.26	2.554
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(7)	DBS	3	207	6985	Battery 1	8.70	9.00	1.072	99.31	1.007	0.13	0.559	0.603	3.34	3.604
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Ant 7+8(8)	DBS	3	207	6985	Battery 1	9.30	9.50	1.047	99.31	1.007	0.09	0.166	0.175	1.06	1.118
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 2	0mm	Ant 7+8(8)	DBS	3	207	6985	Battery 1	9.30	9.50	1.047	99.31	1.007	0.12	0.209	0.220	1.85	1.951
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	2	207	6985	Battery 2	11.50	12.00	1.122	99.31	1.007	-0.01	0.792	0.895	3.92	4.429
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	2	15	6025	Battery 2	8.10	9.00	1.230	99.31	1.007	-0.11	0.518	0.642	2.5	3.097
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	2	47	6185	Battery 2	8.10	9.00	1.230	99.31	1.007	0.12	0.431	0.534	2.02	2.503
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(7)	Non-DBS	2	111	6505	Battery 2	9.10	10.00	1.230	99.31	1.007	0.04	0.605	0.750	3.61	4.472
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Ant 7+8(8)	Non-DBS	2	143	6665	Battery 2	9.40	9.50	1.023	99.31	1.007	0.18	0.601	0.619	3.72	3.833

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Battery	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)
	Bluetooth	1Mbps	Bottom Face	0mm	Ant 7	39	2441	Battery 1	5.67	6.00	1.079	76.8	1.085	0.04	0.025	0.029
	Bluetooth	1Mbps	Bottom Face	0mm	Ant 7	0	2402	Battery 1	5.49	6.00	1.125	76.8	1.085	0.13	0.031	0.038
32	Bluetooth	1Mbps	Bottom Face	0mm	Ant 7	78	2480	Battery 1	4.42	6.00	1.439	76.8	1.085	-0.07	0.044	0.069
	Bluetooth	1Mbps	Edge 1	0mm	Ant 7	39	2441	Battery 1	5.67	6.00	1.079	76.8	1.085	0.16	0.001	0.001
	Bluetooth	1Mbps	Edge 2	0mm	Ant 7	39	2441	Battery 1	5.67	6.00	1.079	76.8	1.085	-0.18	0.001	0.001
	Bluetooth	1Mbps	Bottom Face	0mm	Ant 7	78	2480	Battery 2	4.42	6.00	1.439	76.8	1.085	-0.12	0.041	0.064
	Bluetooth	3Mbps	Bottom Face	0mm	Ant 8	78	2480	Battery 1	5.70	6.00	1.072	77.07	1.081	-0.09	0.056	0.065
	Bluetooth	3Mbps	Bottom Face	0mm	Ant 8	39	2441	Battery 1	5.36	6.00	1.159	77.07	1.081	-0.04	0.042	0.053
	Bluetooth	3Mbps	Bottom Face	0mm	Ant 8	0	2402	Battery 1	5.52	6.00	1.117	77.07	1.081	-0.13	0.036	0.043
	Bluetooth	3Mbps	Edge 2	0mm	Ant 8	78	2480	Battery 1	5.70	6.00	1.072	77.07	1.081	0.09	0.001	0.001
	Bluetooth	3Mbps	Edge 3	0mm	Ant 8	78	2480	Battery 1	5.70	6.00	1.072	77.07	1.081	-0.12	0.001	0.001
	Bluetooth	3Mbps	Bottom Face	0mm	Ant 8	78	2480	Battery 2	5.70	6.00	1.072	77.07	1.081	-0.04	0.012	0.014

<NFC SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Freq. (MHz)	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
33	NFC	ASK	Bottom Face	0mm	13.56	0	0.003	0.003
	NFC	ASK	Edge 1	0mm	13.56	-0.1	0.001	0.001
	NFC	ASK	Edge 2	0mm	13.56	0.02	0.001	0.001

**17.2 6GHz PD SAR Result**

Band	Mode	Test Position	Gap (mm)	Antenna	Non-DBS/DBS	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(7)	Non-DBS	ON	15	6025	8.70	0.0625	13.2	1.906443711	3.74	3.81
WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	10mm	Ant 7+8(7)	Non-DBS	ON	15	6025	8.70	0.25	8.51		1.67	1.81
WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(7)	Non-DBS	ON	207	6985	10.80	0.0625	7.68	-0.78426607	4	4.17
WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	8.59mm	Ant 7+8(7)	Non-DBS	ON	207	6985	10.80	0.25	9.2		2.75	2.91

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Non-DBS/DBS	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(7)	Non-DBS	ON	15	6025	8.70	9.00	1.072	99.31	1.007	0.0625	1.5535	-0.08	3.74	6.27	3.81	6.39
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(7)	Non-DBS	ON	47	6185	8.40	9.00	1.148	99.31	1.007	0.0625	1.5535	0.09	3.93	7.06	4.03	7.24
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(7)	Non-DBS	ON	111	6505	9.10	10.00	1.230	99.31	1.007	0.0625	1.5535	-0.02	2.87	5.52	3.03	5.83
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(7)	Non-DBS	ON	143	6665	9.00	9.00	1.000	99.31	1.007	0.0625	1.5535	-0.03	4.44	6.95	4.56	7.13
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(7)	Non-DBS	ON	207	6985	10.80	11.00	1.047	99.31	1.007	0.0625	1.5535	-0.03	4	6.55	4.17	6.83
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Ant 7+8(7)	Non-DBS	ON	207	6985	10.80	11.00	1.047	99.31	1.007	0.0625	1.5535	-0.07	1.23	2.01	1.42	2.33
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(8)	Non-DBS	ON	15	6025	8.10	9.00	1.230	99.31	1.007	0.0625	1.5535	-0.06	1.69	3.25	1.83	3.52
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(8)	Non-DBS	ON	47	6185	8.10	9.00	1.230	99.31	1.007	0.0625	1.5535	0.08	1.51	2.91	1.79	3.45
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(8)	Non-DBS	ON	111	6505	9.80	10.00	1.047	99.31	1.007	0.0625	1.5535	-0.17	2.32	3.80	2.71	4.44
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(8)	Non-DBS	ON	143	6665	9.40	9.50	1.023	99.31	1.007	0.0625	1.5535	0.07	3.71	5.94	3.81	6.10
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Ant 7+8(8)	Non-DBS	ON	207	6985	11.50	12.00	1.122	99.31	1.007	0.0625	1.5535	-0.06	2.89	5.07	3.04	5.34
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 2	2mm	Ant 7+8(8)	Non-DBS	ON	207	6985	11.50	12.00	1.122	99.31	1.007	0.0625	1.5535	-0.01	1.62	2.84	1.91	3.35
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(7)	Non-DBS/DBS	OFF	15	6025	13.60	14.00	1.096	99.31	1.007	0.25	1.5535	-0.07	4.12	7.07	4.32	7.41
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(7)	Non-DBS/DBS	OFF	47	6185	13.90	14.00	1.023	99.31	1.007	0.25	1.5535	-0.04	4.23	6.77	4.42	7.08
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(7)	Non-DBS/DBS	OFF	111	6505	14.20	15.00	1.202	99.31	1.007	0.25	1.5535	-0.07	3.54	6.66	3.92	7.37
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(7)	Non-DBS/DBS	OFF	143	6665	13.50	13.50	1.000	99.31	1.007	0.25	1.5535	-0.09	4.36	6.82	4.44	6.95
01	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(7)	Non-DBS/DBS	OFF	207	6985	13.50	14.00	1.122	99.31	1.007	0.25	1.5535	-0.02	4.12	7.23	4.27	7.49
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	11mm	Ant 7+8(7)	Non-DBS/DBS	OFF	111	6505	14.20	15.00	1.202	99.31	1.007	0.25	1.5535	-0.05	1.5	2.82	1.61	3.03
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 2	2mm	Ant 7+8(7)	Non-DBS/DBS	OFF	111	6505	14.20	15.00	1.202	99.31	1.007	0.0625	1.5535	0.03	0.686	1.29	0.708	1.33
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 2	3mm	Ant 7+8(8)	Non-DBS/DBS	OFF	15	6025	13.30	14.00	1.175	99.31	1.007	0.0625	1.5535	-0.01	2.38	4.37	2.53	4.65
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 2	3mm	Ant 7+8(8)	Non-DBS/DBS	OFF	47	6185	13.60	14.00	1.096	99.31	1.007	0.0625	1.5535	0.02	1.88	3.22	2.27	3.89
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 2	3mm	Ant 7+8(8)	Non-DBS/DBS	OFF	111	6505	14.80	15.00	1.047	99.31	1.007	0.0625	1.5535	-0.1	2.57	4.21	2.76	4.52
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 2	3mm	Ant 7+8(8)	Non-DBS/DBS	OFF	143	6665	13.90	14.00	1.023	99.31	1.007	0.0625	1.5535	0.02	2.73	4.37	2.81	4.50
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 2	3mm	Ant 7+8(8)	Non-DBS/DBS	OFF	207	6985	13.90	14.00	1.023	99.31	1.007	0.0625	1.5535	-0.1	2.55	4.08	2.68	4.29
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	14mm	Ant 7+8(8)	Non-DBS/DBS	OFF	111	6505	14.80	15.00	1.047	99.31	1.007	0.25	1.5535	-0.04	2.26	3.70	2.71	4.44
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 3	2mm	Ant 7+8(8)	Non-DBS/DBS	OFF	111	6505	14.80	15.00	1.047	99.31	1.007	0.0625	1.5535	0.06	0.997	1.63	1.04	1.70

17.3 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Battery	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA V_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	4182	836.4	20.11	20.5	1.094			-0.06	1.04	-	1.138
2nd	WCDMA V_Ant 1	RMC 12.2Kbps	Bottom Face	0mm	Battery 1	2&3	4182	836.4	20.11	20.5	1.094			0.02	1.01	1.030	1.105
1st	LTE Band 48_Ant 3	20M_QPSK_1_0	Bottom Face	0mm	Battery 1	2&3	56640	3690	11.39	12.2	1.205	62.9	1.006	0.04	0.969	-	1.175
2nd	LTE Band 48_Ant 3	20M_QPSK_1_0	Bottom Face	0mm	Battery 1	2&3	56640	3690	11.39	12.2	1.205	62.9	1.006	0.03	0.849	1.142	1.029
1st	FR1 n12_Ant 1	15M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	141500	707.5	21.41	21.8	1.094			-0.03	1.08	-	1.181
2nd	FR1 n12_Ant 1	15M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	141500	707.5	21.41	21.8	1.094			-0.07	1.02	1.059	1.116
1st	FR1 n25_Ant 1	40M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	376500	1882.5	17.25	17.7	1.109			0.04	1.06	-	1.176
2nd	FR1 n25_Ant 1	40M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	376500	1882.5	17.25	17.7	1.109			0.11	1	1.060	1.109
1st	FR1 n30_Ant 3	10M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	462000	2310	17.51	17.9	1.094			0.03	1.08	-	1.181
2nd	FR1 n30_Ant 3	10M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	462000	2310	17.51	17.9	1.094			0.07	1.02	1.059	1.116
1st	FR1 n66_Ant 4	40M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	349000	1745	16.72	17.1	1.091			0.09	1.06	-	1.157
2nd	FR1 n66_Ant 4	40M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	349000	1745	16.72	17.1	1.091			0.05	1.04	1.019	1.135
1st	FR1 n41_HPUE_Ant 2	100M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	14.06	14.5	1.107			0.03	1.07	-	1.184
2nd	FR1 n41_HPUE_Ant 2	100M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	518598	2592.99	14.06	14.5	1.107			-0.07	1.02	1.049	1.129
1st	FR1 n77_HPUE_Ant 2	100M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	633332	3499.98	9.51	10.5	1.256			-0.13	0.925	-	1.162
2nd	FR1 n77_HPUE_Ant 2	100M_BPSK_1_1	Bottom Face	0mm	Battery 1	2&3	633332	3499.98	9.51	10.5	1.256			0.08	0.914	1.012	1.148
1st	FR1 n77_HPUE_Ant 6	100M_BPSK_1_1	Bottom Face	0mm	Battery 1	3	656000	3840	12.47	12.7	1.054			-0.18	1.07	-	1.128
2nd	FR1 n77_HPUE_Ant 6	100M_BPSK_1_1	Bottom Face	0mm	Battery 1	3	656000	3840	12.47	12.7	1.054			0.09	0.986	1.085	1.04

General Note:

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

17.4 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, 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 3	LTE Band 41_Ant 3
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	16.8	18.4
Reported 1g SAR (W/kg)	1.163	1.079
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	30.30	29.96
Linearity SAR(W/kg)	1.15	
% deviation from expected linearity		-6.17%
	LTE Band 41_Ant 2	LTE Band 41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	16.7	18.3
Reported 1g SAR (W/kg)	1.149	1.098
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	29.61	29.27
Linearity SAR(W/kg)	1.14	
% deviation from expected linearity		-3.35%

18. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
Non-DBS		
1.	WWAN + WLAN2.4GHz Ant 7 + WLAN2.4GHz Ant 8 + NFC	Yes
2.	WWAN + WLAN2.4GHz Ant 8 + Bluetooth Ant 7 + NFC	Yes
3.	WWAN + WLAN2.4GHz Ant 7 + Bluetooth Ant 8 + NFC	Yes
4.	WWAN + WLAN5G/6GHz Ant 7+WLAN5G/6GHz Ant 8+Bluetooth Ant 7 + NFC	Yes
5.	WWAN + WLAN5G/6GHz Ant 7+WLAN5G/6GHz Ant 8+Bluetooth Ant 8 + NFC	Yes
DBS		
6.	WWAN +WLAN2.4GHz Ant 7+8 + WLAN5GHz Ant 7+8 + NFC	Yes
7.	WWAN +WLAN2.4GHz Ant 8 + WLAN5G/6GHz Ant 7+8 + Bluetooth Ant 7 + NFC	Yes
8.	WWAN +WLAN2.4GHz Ant 7+ WLAN5G/6GHz Ant 7+8 + Bluetooth Ant 8 + NFC	Yes

General Note:

1. The worst case WLAN reported SAR for each configuration was used for SAR summation. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with WLAN.
2. 2.4GHz WLAN RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode. Therefore SPLSR calculation was choose worst case with SAR test results of each antenna in SISO mode perform evaluation.
3. The Scaled SAR summation is calculated based on the same configuration and test position.
4. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - v) The SPLSR calculated results please refer to section 18.3.

18.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

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

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

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

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

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

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

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

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

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

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

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

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

**18.2 Body Exposure Conditions****<Non-DBS>**

Exposure Position	1	2	3	4	5	6	7	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+2+7 Summed 1g SAR (W/kg)
	NFC	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 8	WLAN2.4GHz Ant 7+8	WLAN5G/6GHz Ant 7+8	Bluetooth Ant 7	Bluetooth Ant 8					
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
Bottom Face	0.003	1.013	0.617	1.021	1.186	0.069	0.065	1.024	1.258	0.689	1.254	1.081
Edge 1	0.001	0.265		0.414	0.389	0.001		0.415	0.391	0.002	0.390	0.266
Edge 2	0.001	0.192	0.390	0.211	0.369	0.001	0.001	0.212	0.371	0.392	0.371	0.194
Edge 3			0.224	0.244	0.160		0.001	0.244	0.160	0.224	0.161	0.001

Ant	Exposure Position	1	2	3	4	5	6	7	8	1+2+5 Summed 1g SAR (W/kg)	1+2+6+7 Summed 1g SAR (W/kg)	1+2+4+7 Summed 1g SAR (W/kg)	1+2+6+8 Summed 1g SAR (W/kg)	1+2+3+8 Summed 1g SAR (W/kg)	Case No	SPLSR	Case No	SPLSR	Case No	SPLSR	Case No	SPLSR	Case No	SPLSR
		Maximum WWAN	NFC	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 8	WLAN 2.4GHz Ant 7+8	WLAN 5G/6GHz Ant 7+8	Bluetooth Ant 7	Bluetooth Ant 8															
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)															
Ant 1	Bottom Face at 0mm	1.187	0.003	1.013	0.617	1.021	1.186	0.069	0.065	2.211	2.445	1.876	2.441	2.268	1	0.02	6	0.01	11	0.01	16	0.01	21	0.02
	Edge 1 at 0mm	0.374	0.001	0.265		0.414	0.389	0.001		0.789	0.765	0.376	0.764	0.640										
	Edge 3 at 0mm	0.128			0.224	0.244	0.160		0.001	0.372	0.288	0.352	0.289	0.129										
	Edge 4 at 0mm	0.992								0.992	0.992	0.992	0.992	0.992										
Ant 2	Bottom Face at 0mm	1.184	0.003	1.013	0.617	1.021	1.186	0.069	0.065	2.208	2.442	1.873	2.438	2.265	2	0.02	7	0.01	12	0.01	17	0.01	22	0.02
	Edge 1 at 0mm	0.120	0.001	0.265		0.414	0.389	0.001		0.535	0.511	0.122	0.510	0.386										
	Edge 4 at 0mm	0.373								0.373	0.373	0.373	0.373	0.373										
Ant 3	Bottom Face at 0mm	1.181	0.003	1.013	0.617	1.021	1.186	0.069	0.065	2.205	2.439	1.870	2.435	2.262	3	0.02	8	0.02	13	0.01	18	0.02	23	0.02
	Edge 1 at 0mm	0.776	0.001	0.265		0.414	0.389	0.001		1.191	1.167	0.778	1.166	1.042										
	Edge 4 at 0mm	0.658								0.658	0.658	0.658	0.658	0.658										
Ant 4	Bottom Face at 0mm	1.157	0.003	1.013	0.617	1.021	1.186	0.069	0.065	2.181	2.415	1.846	2.411	2.238	4	0.02	9	0.01	14	0.01	19	0.01	24	0.02
	Edge 1 at 0mm	1.091	0.001	0.265		0.414	0.389	0.001		1.506	1.482	1.093	1.481	1.357										
	Edge 4 at 0mm	0.335								0.335	0.335	0.335	0.335	0.335										
Ant 5	Bottom Face at 0mm	1.175	0.003	1.013	0.617	1.021	1.186	0.069	0.065	2.199	2.433	1.864	2.429	2.256	5	0.01	10	0.02	15	0.01	20	0.02	25	0.01
	Edge 3 at 0mm	0.161			0.224	0.244	0.160		0.001	0.405	0.321	0.385	0.322	0.162										
	Edge 4 at 0mm	0.679								0.679	0.679	0.679	0.679	0.679										
Ant 6	Bottom Face at 0mm	0.190	0.003	1.013	0.617	1.021	1.186	0.069	0.065	1.214	1.448	0.879	1.444	1.271										
	Edge 2 at 0mm	0.069	0.001	0.192	0.390	0.211	0.369	0.001	0.001	0.281	0.440	0.461	0.440	0.263										
	Edge 3 at 0mm	0.053			0.224	0.244	0.160		0.001	0.297	0.213	0.277	0.214	0.054										



FCC SAR TEST REPORT

Report No. : FA371211A

<DBS>

Exposure Position	1	2	3	4	5	6	7	1+3+5+6 Summed 1g SAR (W/kg)	1+4+5 Summed 1g SAR (W/kg)	1+2+5+7 Summed 1g SAR (W/kg)
	NFC	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 8	WLAN2.4GHz Ant 7+8	WLAN5G/6GHz Ant 7+8	Bluetooth Ant 7	Bluetooth Ant 8			
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
Bottom Face	0.003	0.564	0.291	0.541	0.648	0.069	0.065	1.011	1.192	1.280
Edge 1	0.001	0.193		0.213	0.278	0.001		0.280	0.492	0.472
Edge 2	0.001	0.098	0.184	0.156	0.369	0.001	0.001	0.555	0.526	0.469
Edge 3			0.224	0.244	0.160		0.001	0.384	0.404	0.161

Ant	Exposure Position	1	2	3	4	5	6	7	8	1+2+4+6+7 Summed 1g SAR (W/kg)	1+2+5+6 Summed 1g SAR (W/kg)	1+2+3+6+8 Summed 1g SAR (W/kg)	Case No	SPLSR	Case No	SPLSR	Case No	SPLSR
		Maximum WWAN	NFC	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 8	WLAN 2.4GHz Ant 7+8	WLAN 5G/6GHz Ant 7+8	Bluetooth Ant 7	Bluetooth Ant 8									
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)									
Ant 1	Bottom Face at 0mm	1.187	0.003	0.564	0.291	0.541	0.648	0.069	0.065	2.198	2.379	2.467	26	0.01	31	0.01	36	0.01
	Edge 1 at 0mm	0.374	0.001	0.193		0.213	0.278	0.001		0.654	0.866	0.846						
	Edge 3 at 0mm	0.128			0.224	0.244	0.160		0.001	0.512	0.532	0.289						
	Edge 4 at 0mm	0.992								0.992	0.992	0.992						
Ant 2	Bottom Face at 0mm	1.184	0.003	0.564	0.291	0.541	0.648	0.069	0.065	2.195	2.376	2.464	27	0.01	32	0.01	37	0.01
	Edge 1 at 0mm	0.120	0.001	0.193		0.213	0.278	0.001		0.400	0.612	0.592						
	Edge 4 at 0mm	0.373								0.373	0.373	0.373						
Ant 3	Bottom Face at 0mm	1.181	0.003	0.564	0.291	0.541	0.648	0.069	0.065	2.192	2.373	2.461	28	0.01	33	0.02	38	0.02
	Edge 1 at 0mm	0.776	0.001	0.193		0.213	0.278	0.001		1.056	1.268	1.248						
	Edge 4 at 0mm	0.658								0.658	0.658	0.658						
Ant 4	Bottom Face at 0mm	1.157	0.003	0.564	0.291	0.541	0.648	0.069	0.065	2.168	2.349	2.437	29	0.01	34	0.01	39	0.01
	Edge 1 at 0mm	1.091	0.001	0.193		0.213	0.278	0.001		1.371	1.583	1.563						
	Edge 4 at 0mm	0.335								0.335	0.335	0.335						
Ant 5	Bottom Face at 0mm	1.175	0.003	0.564	0.291	0.541	0.648	0.069	0.065	2.186	2.367	2.455	30	0.01	35	0.01	40	0.02
	Edge 3 at 0mm	0.161			0.224	0.244	0.160		0.001	0.545	0.565	0.322						
	Edge 4 at 0mm	0.679								0.679	0.679	0.679						
Ant 6	Bottom Face at 0mm	0.190	0.003	0.564	0.291	0.541	0.648	0.069	0.065	1.201	1.382	1.470						
	Edge 2 at 0mm	0.069	0.001	0.098	0.184	0.156	0.369	0.001	0.001	0.624	0.595	0.538						
	Edge 3 at 0mm	0.053			0.224	0.244	0.160		0.001	0.437	0.457	0.214						

18.3 SPLSR Evaluation and Analysis

General Note:

1. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary
2. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.
3. Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneously transmitting antenna. When the sum of 1-g or 10-g SAR of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit, SAR test exclusion applies to that simultaneous transmission configuration. Therefore, the adjacent transmit antennas will be summed first, and then the SPLSR calculation will be evaluated with the farther transmitted antennas

Non DBS

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 1	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	161.0	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	81.2	1.02	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G MIMO	Bottom Face	1.021	0	87.2	81.2	-179.4	206.2	2.21	0.02	Not required
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177				
	WLAN2.4G MIMO	Bottom Face	1.021	0	87.2	81.2	-179.4				
Case 2	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	166.1	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	81.2	1.02	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G MIMO	Bottom Face	1.021	0	87.2	81.2	-179.4	204.7	2.21	0.02	Not required
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1				
	WLAN2.4G MIMO	Bottom Face	1.021	0	87.2	81.2	-179.4				
Case 3	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	132.3	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	81.2	1.02	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G MIMO	Bottom Face	1.021	0	87.2	81.2	-179.4	144.2	2.20	0.02	Not required
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177				
	WLAN2.4G MIMO	Bottom Face	1.021	0	87.2	81.2	-179.4				
Case 4	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	159.7	1.16	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	81.2	1.02	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G MIMO	Bottom Face	1.021	0	87.2	81.2	-179.4	174.4	2.18	0.02	Not required
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177				
	WLAN2.4G MIMO	Bottom Face	1.021	0	87.2	81.2	-179.4				
Case 5	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	182.0	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	81.2	1.02	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G MIMO	Bottom Face	1.021	0	87.2	81.2	-179.4	250.7	2.20	0.01	Not required
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177				
	WLAN2.4G MIMO	Bottom Face	1.021	0	87.2	81.2	-179.4				
Case 6	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n13_Ant 1	Bottom Face	1.187	0	X	Y	Z				
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	161.0	1.19	0.01	Not required

	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.23	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.225	0	-70	118	-180.1				
	FR1 n13_Ant 1	Bottom Face	1.186	0	23	-114.7	-177	250.6	2.41	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.225	0	-70	118	-180.1				
Case 7	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	166.1	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.23	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.225	0	-70	118	-180.1				
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	260.4	2.41	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.225	0	-70	118	-180.1				
Case 8	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	132.3	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.23	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.225	0	-70	118	-180.1				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	240.9	2.41	0.02	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.225	0	-70	118	-180.1				
Case 9	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	159.7	1.16	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.23	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.225	0	-70	118	-180.1				
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	266.4	2.38	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.225	0	-70	118	-180.1				
Case 10	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	182.0	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.23	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.225	0	-70	118	-180.1				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	236.1	2.40	0.02	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.225	0	-70	118	-180.1				
Case 11	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	161.0	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.9	0.56	0.00	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7	162.7	0.62	0.00	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	250.2	1.74	0.01	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	204.3	1.26	0.01	Not required
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	80.4	0.07	0.00	Not required
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7				
Case 12	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	166.1	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.9	0.56	0.00	Not required

	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7	162.7	0.62	0.00	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	260.1	1.74	0.01	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	202.8	1.25	0.01	Not required
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	80.4	0.07	0.00	Not required
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7				
Case 13	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	132.3	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.9	0.56	0.00	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7	162.7	0.62	0.00	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	241.0	1.73	0.01	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	142.2	1.25	0.01	Not required
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	80.4	0.07	0.00	Not required
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7				
Case 14	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	159.7	1.16	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.9	0.56	0.00	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7	162.7	0.62	0.00	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	266.4	1.71	0.01	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	172.4	1.23	0.01	Not required
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	80.4	0.07	0.00	Not required
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7				
Case 15	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	182.0	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.9	0.56	0.00	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7	162.7	0.62	0.00	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	235.3	1.73	0.01	Not required
	WLAN2.4G_Ant 8	Bottom Face	0.553	0	-71	117.2	-178.5				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	249.1	1.24	0.01	Not required
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	80.4	0.07	0.00	Not required
	Bluetooth_Ant 7	Bottom Face	0.069	0	87.2	79.2	-177.7				
Case 16	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	161.0	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.23	0.01	Not required



FCC SAR TEST REPORT

Report No. : FA371211A

	WLAN5/6G MIMO+BT	Bottom Face	1.224	0	-70	118	-180.1				
	FR1 n13_Ant 1	Bottom Face	1.186	0	23	-114.7	-177	250.6	2.41	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.224	0	-70	118	-180.1				
Case 17	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	166.1	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.23	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.224	0	-70	118	-180.1				
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	260.4	2.41	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.224	0	-70	118	-180.1				
Case 18	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	132.3	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.23	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.224	0	-70	118	-180.1				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	240.9	2.41	0.02	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.224	0	-70	118	-180.1				
Case 19	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	159.7	1.16	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.23	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.224	0	-70	118	-180.1				
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	266.4	2.38	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.224	0	-70	118	-180.1				
Case 20	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	182.0	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.23	0.01	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.224	0	-70	118	-180.1				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	236.1	2.40	0.02	Not required
	WLAN5/6G MIMO+BT	Bottom Face	1.224	0	-70	118	-180.1				
Case 21	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	161.0	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	80.5	1.02	0.01	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3	164.5	1.08	0.01	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	202.1	2.20	0.02	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	249.0	1.25	0.01	Not required
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.2	0.07	0.00	Not required
Case 22	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	166.1	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	80.5	1.02	0.01	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3	164.5	1.08	0.01	Not required

	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	200.5	2.20	0.02	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	258.9	1.25	0.01	Not required
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.2	0.07	0.00	Not required
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3				
Case 23	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	132.3	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	80.5	1.02	0.01	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3	164.5	1.08	0.01	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	139.5	2.19	0.02	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	240.1	1.25	0.01	Not required
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3				
Case 24	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	159.7	1.16	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	80.5	1.02	0.01	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3	164.5	1.08	0.01	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	169.7	2.17	0.02	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	265.4	1.22	0.01	Not required
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3				
Case 25	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	182.0	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	80.5	1.02	0.01	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3	164.5	1.08	0.01	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	247.8	2.19	0.01	Not required
	WLAN2.4G_Ant 7	Bottom Face	1.013	0	88.5	76.5	-179.4				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	233.9	1.24	0.01	Not required
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.2	0.07	0.00	Not required
	Bluetooth_Ant 8	Bottom Face	0.065	0	-71.2	115.8	-178.3				

DBS

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 26	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	161.0	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G_DBs Ant 8+ 5G DBS MIMO +BT Ant 7	Bottom Face	1.008	0	-70	118	-180.1	110.6	1.01	0.01	Not required
	FR1 n13_Ant 1	Bottom Face	0.069	0	87.2	79.2	-177.7				
	WLAN2.4G_DBs Ant 8+ 5G DBS MIMO +BT Ant 7	Bottom Face	1.008	0	-70	118	-180.1				
Case 27	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			166.1	1.19	0.01	Not required
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.01	0.01	Not required
	WLAN2.4G_DBs Ant 8+ 5G DBS MIMO +BT Ant 7	Bottom Face	1.008	0	-70	118	-180.1				
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1				
Case 28	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			260.4	2.19	0.01	Not required
	WLAN2.4G_DBs Ant 8+ 5G DBS MIMO +BT Ant 7	Bottom Face	1.008	0	-70	118	-180.1				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	132.3	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G_DBs Ant 8+ 5G DBS MIMO +BT Ant 7	Bottom Face	1.008	0	-70	118	-180.1				
Case 29	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			240.9	2.19	0.01	Not required
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.01	0.01	Not required
	WLAN2.4G_DBs Ant 8+ 5G DBS MIMO +BT Ant 7	Bottom Face	1.008	0	-70	118	-180.1				
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177				
Case 30	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			266.4	2.17	0.01	Not required
	WLAN2.4G_DBs Ant 8+ 5G DBS MIMO +BT Ant 7	Bottom Face	1.008	0	-70	118	-180.1				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	182.0	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G_DBs Ant 8+ 5G DBS MIMO +BT Ant 7	Bottom Face	1.008	0	-70	118	-180.1				
Case 31	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			236.1	2.18	0.01	Not required
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177				
	WLAN2.4G_DBs Ant 8+ 5G DBS MIMO +BT Ant 7	Bottom Face	1.008	0	-70	118	-180.1				
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	161.0	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G_DBs MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4	81.2	0.54	0.00	Not required
	WLAN5/6G MIMO_DBs	Bottom Face	0.648	0	-70	118	-180.1				
	WLAN2.4G_DBs MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			206.2	1.73	0.01	Not required
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177				
	WLAN2.4G_DBs MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	250.6	1.84	0.01	Not required
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177				

	WLAN5/6G MIMO_DBS	Bottom Face	0.648	0	-70	118	-180.1				
Case 32	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	166.1	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	81.2	0.54	0.00	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	WLAN5/6G MIMO_DBS	Bottom Face	0.648	0	-70	118	-180.1	161.5	1.19	0.01	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	204.7	1.73	0.01	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	260.4	1.83	0.01	Not required
	WLAN5/6G MIMO_DBS	Bottom Face	0.648	0	-70	118	-180.1				
Case 33	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	132.3	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	81.2	0.54	0.00	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	WLAN5/6G MIMO_DBS	Bottom Face	0.648	0	-70	118	-180.1	161.5	1.19	0.01	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	144.2	1.72	0.02	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	240.9	1.83	0.01	Not required
	WLAN5/6G MIMO_DBS	Bottom Face	0.648	0	-70	118	-180.1				
Case 34	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n66_Ant 4	Bottom Face	1.157		92.5	-93.1	-177	159.7	1.16	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	81.2	0.54	0.00	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	WLAN5/6G MIMO_DBS	Bottom Face	0.648	0	-70	118	-180.1	161.5	1.19	0.01	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	FR1 n66_Ant 4	Bottom Face	1.157		92.5	-93.1	-177	174.4	1.70	0.01	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	FR1 n66_Ant 4	Bottom Face	1.157		92.5	-93.1	-177	266.4	1.81	0.01	Not required
	WLAN5/6G MIMO_DBS	Bottom Face	0.648	0	-70	118	-180.1				
Case 35	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	182.0	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	81.2	0.54	0.00	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	WLAN5/6G MIMO_DBS	Bottom Face	0.648	0	-70	118	-180.1	161.5	1.19	0.01	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	250.7	1.72	0.01	Not required
	WLAN2.4G_DBS MIMO	Bottom Face	0.541	0	87.2	81.2	-179.4				
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	236.1	1.82	0.01	Not required
	WLAN5/6G MIMO_DBS	Bottom Face	0.648	0	-70	118	-180.1				
Case 36	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n13_Ant 1	Bottom Face	1.187	0	23	-114.7	-177	161.0	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9	110.6	1.28	0.01	Not required
	WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8	Bottom Face	1.28	0	-70	118	-180.1				
	FR1 n13_Ant 1	Bottom Face	0.069	0	87.2	79.2	-177.7	161.9	1.35	0.01	Not required

Case 37	WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8	Bottom Face	1.28	0	-70	118	-180.1				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	166.1	1.19	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8	Bottom Face	1.28	0	-70	118	-180.1	110.6	1.28	0.01	Not required
	n41_HPUE_Ant 2	Bottom Face	1.184	0	40	-118	-177.1	260.4	2.46	0.01	Not required
Case 38	WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8	Bottom Face	1.28	0	-70	118	-180.1				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	132.3	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8	Bottom Face	1.28	0	-70	118	-180.1	110.6	1.28	0.01	Not required
	FR1 n30_Ant 3	Bottom Face	1.181	0	89	-63	-177	240.9	2.46	0.02	Not required
Case 39	WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8	Bottom Face	1.28	0	-70	118	-180.1				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	159.7	1.16	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8	Bottom Face	1.28	0	-70	118	-180.1	110.6	1.28	0.01	Not required
	FR1 n66_Ant 4	Bottom Face	1.157	0	92.5	-93.1	-177	266.4	2.44	0.01	Not required
Case 40	WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8	Bottom Face	1.28	0	-70	118	-180.1				
	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	182.0	1.18	0.01	Not required
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	NFC	Bottom Face	0.003	0	14.01	46	-178.9				
	WLAN2.4G_DBS Ant 7+ 5G DBS MIMO +BT Ant 8	Bottom Face	1.28	0	-70	118	-180.1	110.6	1.28	0.01	Not required
	FR1 n77_Ant 5	Bottom Face	1.175	0	-65	-118	-177	236.1	2.46	0.02	Not required

Test Engineer : Elio Wei, Carter Jhuang, Mood Huang and Ben Wang

19. Uncertainty Assessment

Declaration of Conformity:

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

Comments and Explanations:

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

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

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

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

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

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

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

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

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

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

Applicable for SAR Measurements:

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						14.5%	14.2%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.4%

Applicable for Power Density Measurements:

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

20. References

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