

SMARTKOSHER

Tune-up (dBm) procedure

This is to formally certify that:

The tune up procedures of Smart phone (FCC ID: 2A6XG-QINF30)

The tune up procedures of is not open to end user. The end user is not allowed to perform final tune. All the power and frequency set up were finished at the manufacturer stage.

Tune up procedure shall be over the power range or at specific operating power levels.

Procedure:

1. Set the phone to operational voltage and on one certain channel in a special service mode by means of company proprietary software.
2. The actual power is measured at several power levels.
3. The gain factors of each individual phone are adjusted via the Board-test SW using automatic adjustment arithmetic until the Tune-up Range (dBm) value is met.

It must provide an operational voltage (DC 3.85V by battery) to turn on the device and on one certain channel in service mode by means of company proprietary software. spectrum analyzer(Agilent, N9020A) and Power meter (DARE, RPR3006W)measures the 2.4G/5G device specific RF characteristics. Base station simulator (R&S CMW500) measures the 2G/3G/4G device specific RF characteristics. The maximum power of each individual channels are adjusted until the target value met.

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	23.00	22.74	22.61	22.78
			1	2	23.00	22.88	22.81	22.95
			1	5	23.00	22.72	22.62	22.81
			3	0	23.00	22.85	22.74	22.91
			3	1	23.00	22.86	22.77	22.95
			3	2	23.00	22.86	22.75	22.92
		16QAM	6	0	22.00	21.83	21.78	21.94
			1	0	22.50	22.09	22.00	22.10
			1	2	22.50	22.24	22.14	22.30
			1	5	22.50	22.13	21.90	22.13
			3	0	22.00	21.88	21.82	21.91
			3	1	22.00	21.85	21.80	21.90
			3	2	22.00	21.86	21.75	21.94
			6	0	21.50	20.96	20.88	21.06
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band	3MHz	QPSK	1	0	23.00	22.80	22.70	22.79
			1	7	23.00	22.77	22.70	22.84

2			1	14	23.00	22.76	22.68	22.85
			8	0	22.00	21.82	21.75	21.93
			8	4	22.00	21.86	21.80	21.94
			8	7	22.00	21.81	21.76	21.92
			15	0	22.00	21.81	21.75	21.92
		16QAM	1	0	22.50	22.16	21.98	22.11
			1	7	22.50	22.02	22.02	22.05
			1	14	22.50	22.07	22.06	22.10
			8	0	21.50	20.92	20.85	21.00
			8	4	21.50	20.95	20.88	21.03
			8	7	21.50	20.93	20.83	21.00
			15	0	21.00	20.85	20.77	20.91
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	23.00	22.67	22.61	22.68
			1	12	23.00	22.80	22.74	22.88
			1	24	23.00	22.63	22.61	22.75
			12	0	22.00	21.81	21.78	21.93
			12	6	22.00	21.88	21.83	21.98
			12	11	22.00	21.86	21.78	21.89
			25	0	22.00	21.84	21.80	21.92
		16QAM	1	0	22.50	22.01	21.96	21.96
			1	12	22.50	22.06	22.08	22.16
			1	24	22.50	21.86	21.84	22.09
			12	0	21.00	20.81	20.80	20.93
			12	6	21.00	20.89	20.81	20.96
			12	11	21.00	20.88	20.79	20.86
			25	0	21.00	20.87	20.82	20.95
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	23.00	22.81	22.71	22.74
			1	24	23.00	22.83	22.79	22.85
			1	49	23.00	22.62	22.73	22.86
			25	0	22.50	21.79	21.87	22.02
			25	12	22.50	21.78	21.84	21.93
			25	24	22.50	21.87	21.83	21.90
			50	0	22.00	21.84	21.88	21.96
		16QAM	1	0	22.50	22.15	22.05	22.02
			1	24	22.50	22.18	22.02	22.16
			1	49	22.50	21.94	22.01	22.21
			25	0	21.50	20.81	20.89	21.02
			25	12	21.50	20.80	20.86	20.91
			25	24	21.50	20.93	20.85	20.93
			50	0	21.00	20.84	20.87	20.95
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

			RB Size	RB Offset	(dBm)	18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	23.00	22.74	22.61	22.68
			1	37	23.00	22.65	22.74	22.75
			1	74	23.00	22.50	22.60	22.76
			36	0	22.00	21.76	21.85	21.86
			36	18	22.00	21.76	21.85	21.89
			36	37	22.00	21.78	21.85	21.91
			75	0	22.00	21.75	21.85	21.86
		16QAM	1	0	22.50	22.00	21.97	21.95
			1	37	22.50	22.00	21.94	22.04
			1	74	22.50	21.87	21.91	22.04
			36	0	21.00	20.74	20.84	20.80
			36	18	21.00	20.73	20.81	20.84
			36	37	21.00	20.77	20.84	20.85
			75	0	21.00	20.76	20.86	20.85
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	23.00	22.56	22.41	22.54
			1	49	23.00	22.70	22.81	22.80
			1	99	23.00	22.34	22.42	22.64
			50	0	22.00	21.57	21.90	21.76
			50	24	22.00	21.72	21.85	21.84
			50	49	22.00	21.75	21.81	21.69
			100	0	22.00	21.69	21.85	21.75
		16QAM	1	0	22.50	21.95	21.77	21.93
			1	49	22.50	22.06	22.06	22.10
			1	99	22.50	21.69	21.69	21.85
			50	0	21.00	20.58	20.91	20.76
			50	24	21.00	20.72	20.87	20.84
			50	49	21.00	20.78	20.82	20.70
			100	0	21.00	20.68	20.84	20.73

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	23.50	22.89	22.90	22.73
			1	2	23.50	23.02	22.97	22.85
			1	5	23.50	22.89	22.90	22.73
			3	0	23.50	23.00	23.00	22.85
			3	1	23.50	23.05	23.01	22.88
			3	2	23.50	23.00	23.02	22.83
			6	0	22.50	22.06	22.03	21.89
		16QAM	1	0	22.50	22.01	22.11	21.91
			1	2	22.50	22.27	22.19	22.00
			1	5	22.50	22.09	22.08	21.92
			3	0	22.50	21.91	21.97	21.74

			3	1	22.50	21.95	22.02	21.84
			3	2	22.50	21.95	21.96	21.82
			6	0	21.50	21.09	21.12	20.94
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	23.50	22.99	23.00	22.85
			1	7	23.50	22.98	22.98	22.82
			1	14	23.50	22.98	23.03	22.82
			8	0	22.50	22.03	22.05	21.90
			8	4	22.50	22.05	22.07	21.92
			8	7	22.50	22.00	22.07	21.89
			15	0	22.50	22.06	22.08	21.93
		16QAM	1	0	22.50	22.24	22.16	22.09
			1	7	22.50	22.13	22.14	22.04
			1	14	22.50	22.24	22.28	21.98
			8	0	21.50	21.08	21.12	20.94
			8	4	21.50	21.10	21.14	20.98
			8	7	21.50	21.04	21.12	20.91
			15	0	21.50	20.98	21.05	20.89
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	23.00	22.88	22.89	22.67
			1	12	23.00	22.99	23.00	22.75
			1	24	23.00	22.86	22.91	22.63
			12	0	22.50	22.01	22.05	21.81
			12	6	22.50	22.07	22.10	21.87
			12	11	22.50	22.07	22.05	21.82
			25	0	22.50	22.04	22.10	21.85
		16QAM	1	0	22.50	22.13	22.10	21.79
			1	12	22.50	22.21	22.24	21.89
			1	24	22.50	22.08	22.15	21.83
			12	0	21.50	21.00	21.02	20.79
			12	6	21.50	21.05	21.08	20.82
			12	11	21.50	21.05	21.01	20.78
			25	0	21.50	21.03	21.07	20.83
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	23.50	22.95	22.97	22.76
			1	24	23.50	23.08	23.12	22.89
			1	49	23.50	22.87	22.97	22.71
			25	0	22.50	22.05	22.12	21.93
			25	12	22.50	22.09	22.14	21.91
			25	24	22.50	22.12	22.16	21.91
			50	0	22.50	22.12	22.16	21.92

		16QAM	1	0	22.50	22.17	22.15	21.96
			1	24	22.50	22.28	22.39	22.09
			1	49	22.50	22.15	22.19	21.92
			25	0	21.50	21.04	21.12	20.91
			25	12	21.50	21.08	21.11	20.88
			25	24	21.50	21.10	21.13	20.89
			50	0	21.50	21.11	21.13	20.92
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	23.50	22.88	22.86	22.70
			1	37	23.50	22.91	23.02	22.79
			1	74	23.50	22.81	22.88	22.65
			36	0	22.50	22.02	22.05	21.88
			36	18	22.50	22.04	22.10	21.91
			36	37	22.50	22.07	22.12	21.88
			75	0	22.50	22.03	22.09	21.90
		16QAM	1	0	22.50	22.14	22.10	22.00
			1	37	22.50	22.07	22.19	21.95
			1	74	22.50	22.11	22.05	21.78
			36	0	21.50	20.96	21.00	20.84
			36	18	21.50	20.97	21.06	20.87
			36	37	21.50	21.03	21.05	20.84
			75	0	21.50	21.00	21.06	20.87
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	23.50	22.70	22.73	22.55
			1	49	23.50	22.92	23.04	22.86
			1	99	23.50	22.61	22.70	22.48
			50	0	22.50	21.91	22.05	21.89
			50	24	22.50	22.04	22.13	21.92
			50	49	22.50	22.03	22.12	21.89
			100	0	22.50	21.93	22.10	21.87
		16QAM	1	0	22.50	21.88	21.95	21.76
			1	49	22.50	22.13	22.22	21.99
			1	99	22.50	21.80	21.92	21.66
			50	0	21.50	20.89	21.01	20.89
			50	24	21.50	21.00	21.09	20.88
			50	49	21.50	21.01	21.11	20.88
			100	0	21.50	20.89	21.04	20.84

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band	1.4MHz	QPSK	1	0	23.00	22.67	22.63	22.54
			1	2	23.00	22.77	22.73	22.63

12			1	5	23.00	22.64	22.58	22.52
			3	0	23.00	22.76	22.67	22.65
			3	1	23.00	22.79	22.71	22.66
			3	2	23.00	22.72	22.69	22.62
			6	0	22.00	21.74	21.71	21.62
		16QAM	1	0	22.50	21.92	21.87	21.79
			1	2	22.50	22.07	21.95	21.96
			1	5	22.50	21.92	21.91	21.77
			3	0	22.00	21.71	21.67	21.64
			3	1	22.00	21.73	21.75	21.59
			3	2	22.00	21.75	21.66	21.61
			6	0	21.00	20.83	20.75	20.72
		Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)
RB Size	RB Offset				23025/700.5	23095/707.5		23165/714.5
LTE Band 12	3MHz	QPSK	1	0	23.00	22.71	22.66	22.59
			1	7	23.00	22.69	22.65	22.62
			1	14	23.00	22.68	22.66	22.55
			8	0	22.00	21.72	21.64	21.65
			8	4	22.00	21.72	21.71	21.65
			8	7	22.00	21.69	21.68	21.59
			15	0	22.00	21.68	21.66	21.63
		16QAM	1	0	22.00	21.89	21.85	21.77
			1	7	22.00	21.85	21.83	21.82
			1	14	22.00	21.90	21.92	21.85
			8	0	21.00	20.79	20.73	20.69
			8	4	21.00	20.80	20.77	20.73
			8	7	21.00	20.71	20.73	20.65
			15	0	21.00	20.73	20.70	20.63
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	23.00	22.60	22.59	22.51
			1	12	23.00	22.72	22.67	22.62
			1	24	23.00	22.55	22.53	22.46
			12	0	22.00	21.72	21.69	21.63
			12	6	22.00	21.76	21.73	21.69
			12	11	22.00	21.69	21.68	21.59
			25	0	22.00	21.72	21.69	21.64
		16QAM	1	0	22.50	21.91	21.91	21.82
			1	12	22.50	22.01	21.96	21.82
			1	24	22.50	21.83	21.75	21.69
			12	0	21.00	20.73	20.70	20.61
			12	6	21.00	20.75	20.72	20.69
			12	11	21.00	20.66	20.67	20.55
			25	0	21.00	20.73	20.70	20.63
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

			RB Size	RB Offset	(dBm)	23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	23.00	22.68	22.71	22.67
			1	24	23.00	22.82	22.76	22.78
			1	49	23.00	22.59	22.55	22.52
			25	0	22.00	21.80	21.80	21.71
			25	12	22.00	21.71	21.73	21.68
			25	24	22.00	21.70	21.77	21.64
			50	0	22.00	21.75	21.82	21.66
		16QAM	1	0	22.50	21.97	22.00	21.88
			1	24	22.50	22.04	21.86	21.87
			1	49	22.50	21.77	21.83	21.85
			25	0	21.00	20.81	20.82	20.70
			25	12	21.00	20.74	20.75	20.69
			25	24	21.00	20.69	20.80	20.64
			50	0	21.00	20.74	20.81	20.67

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23205/779.5	23230/782	23255/784.5
LTE Band 13	5MHz	QPSK	1	0	23.00	22.74	22.71	22.74
			1	12	23.00	22.81	22.82	22.83
			1	24	23.00	22.71	22.68	22.69
			12	0	22.00	21.83	21.80	21.79
			12	6	22.00	21.91	21.90	21.84
			12	11	22.00	21.87	21.88	21.75
			25	0	22.00	21.87	21.86	21.79
		16QAM	1	0	22.50	22.05	21.93	22.00
			1	12	22.50	22.20	22.08	22.10
			1	24	22.50	21.94	21.92	22.02
			12	0	21.00	20.83	20.79	20.83
			12	6	21.00	20.90	20.89	20.84
			12	11	21.00	20.87	20.86	20.75
			25	0	21.00	20.88	20.85	20.81

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	23.00	22.58	22.61	22.54
			1	12	23.00	22.68	22.69	22.67
			1	24	23.00	22.53	22.50	22.42
			12	0	22.00	21.70	21.69	21.62
			12	6	22.00	21.73	21.73	21.69
			12	11	22.00	21.68	21.71	21.62
			25	0	22.00	21.70	21.73	21.64
		16QAM	1	0	22.00	21.77	21.77	21.85
			1	12	22.00	21.86	21.98	21.81
			1	24	22.00	21.72	21.77	21.75

			12	0	21.00	20.69	20.68	20.61
			12	6	21.00	20.72	20.73	20.69
			12	11	21.00	20.66	20.69	20.60
			25	0	21.00	20.70	20.71	20.62
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	23.00	22.70	22.72	22.67
			1	24	23.00	22.65	22.49	22.62
			1	49	23.00	22.55	22.40	22.29
			25	0	22.00	21.75	21.73	21.59
			25	12	22.00	21.72	21.74	21.70
			25	24	22.00	21.78	21.70	21.64
			50	0	22.00	21.78	21.77	21.70
		16QAM	1	0	22.00	21.95	21.98	21.92
			1	24	22.00	21.80	21.83	21.74
			1	49	22.00	21.72	21.49	21.53
			25	0	21.00	20.73	20.65	20.54
			25	12	21.00	20.75	20.75	20.71
			25	24	21.00	20.78	20.72	20.71
			50	0	21.00	20.77	20.76	20.69

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131979/1710.7	132322/1745	132665/1779.3
LTE Band 66	1.4MHz	QPSK	1	0	23.00	22.68	22.38	22.38
			1	2	23.00	22.83	22.44	22.49
			1	5	23.00	22.68	22.35	22.29
			3	0	23.00	22.79	22.34	22.38
			3	1	23.00	22.82	22.28	22.44
			3	2	23.00	22.76	22.23	22.40
		16QAM	6	0	22.00	21.77	21.36	21.43
			1	0	22.00	21.71	21.49	21.55
			1	2	22.00	21.70	21.66	21.72
			1	5	22.00	21.44	21.58	21.60
			3	0	22.00	21.28	21.32	21.38
			3	1	22.00	21.30	21.40	21.52
			3	2	22.00	21.26	21.28	21.42
			6	0	21.00	20.41	20.53	20.53
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711.5	132322/1745	132657/1778.5
LTE Band 66	3MHz	QPSK	1	0	23.00	22.24	22.06	22.33
			1	7	23.00	22.26	22.14	22.34
			1	14	23.00	22.22	22.07	22.51
			8	0	22.00	21.25	21.08	21.60
			8	4	22.00	21.27	21.23	21.79

			8	7	22.00	21.25	21.30	21.76
			15	0	22.00	21.25	21.27	21.78
		16QAM	1	0	22.00	21.50	21.53	21.84
			1	7	22.00	21.46	21.36	21.89
			1	14	22.00	21.55	21.51	21.82
			8	0	21.00	20.35	20.44	20.67
			8	4	21.00	20.36	20.39	20.88
			8	7	21.00	20.34	20.51	20.85
			15	0	21.00	20.27	20.50	20.80
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1712.5	132322/1745	132647/1777.5
LTE Band 66	5MHz	QPSK	1	0	22.50	22.16	21.97	22.06
			1	12	22.50	22.31	22.12	22.36
			1	24	22.50	22.10	21.95	22.42
			12	0	22.00	21.23	21.11	21.46
			12	6	22.00	21.30	21.14	21.83
			12	11	22.00	21.29	21.11	21.78
			25	0	22.00	21.25	21.11	21.76
		16QAM	1	0	22.00	21.38	21.32	21.83
			1	12	22.00	21.63	21.38	21.72
			1	24	22.00	21.36	21.19	21.72
			12	0	21.00	20.26	20.12	20.48
			12	6	21.00	20.30	20.17	20.81
			12	11	21.00	20.30	20.10	20.75
			25	0	21.00	20.29	20.14	20.76
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132022/1715	132322/1745	132622/1775
LTE Band 66	10MHz	QPSK	1	0	22.50	22.23	22.10	22.14
			1	24	22.50	22.31	22.17	22.28
			1	49	22.50	22.18	22.06	22.24
			25	0	22.00	21.23	21.16	21.27
			25	12	22.00	21.29	21.14	21.75
			25	24	22.00	21.32	21.15	21.75
			50	0	22.00	21.26	21.17	21.75
		16QAM	1	0	22.00	21.53	21.34	21.76
			1	24	22.00	21.65	21.44	21.71
			1	49	22.00	21.57	21.41	21.61
			25	0	21.00	20.25	20.18	20.56
			25	12	21.00	20.29	20.15	20.75
			25	24	21.00	20.32	20.17	20.78
			50	0	21.00	20.27	20.21	20.82
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5
LTE	15MHz	QPSK	1	0	22.50	22.17	22.05	22.03

Band 66			1	37	22.50	22.24	22.09	22.16
			1	74	22.50	22.12	22.02	22.18
			36	0	21.50	21.21	21.14	21.21
			36	18	21.50	21.25	21.17	21.25
			36	37	21.50	21.28	21.15	21.27
			75	0	21.50	21.25	21.15	21.23
			75	0	21.50	21.25	21.15	21.23
		16QAM	1	0	22.00	21.49	21.29	21.26
			1	37	22.00	21.57	21.30	21.36
			1	74	22.00	21.51	21.19	21.44
			36	0	20.50	20.18	20.13	20.19
			36	18	20.50	20.23	20.13	20.23
			36	37	20.50	20.27	20.15	20.25
			75	0	20.50	20.25	20.17	20.25
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
LTE Band 66	20MHz	QPSK	1	0	23.00	21.98	21.87	21.89
			1	49	23.00	22.25	22.18	22.22
			1	99	23.00	21.96	21.78	22.02
			50	0	21.50	21.13	21.13	21.23
			50	24	21.50	21.19	21.17	21.23
			50	49	21.50	21.27	21.15	21.20
			100	0	21.50	21.19	21.15	21.24
		16QAM	1	0	21.50	21.33	21.18	21.06
			1	49	21.50	21.45	21.43	21.43
			1	99	21.50	21.32	21.16	21.38
			50	0	20.50	20.14	20.15	20.25
			50	24	20.50	20.21	20.18	20.25
			50	49	20.50	20.25	20.14	20.21
			100	0	20.50	20.17	20.15	20.23

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133147/665.5	133297/680.5	133447/695.5
LTE Band 71	5MHz	QPSK	1	0	23.00	22.52	22.38	22.42
			1	12	23.00	22.57	22.30	22.34
			1	24	23.00	22.45	22.17	22.15
			12	0	22.00	21.63	21.31	21.43
			12	6	22.00	21.67	21.46	21.63
			12	11	22.00	21.61	21.48	21.62
			25	0	22.00	21.64	21.50	21.57
		16QAM	1	0	22.00	21.53	21.51	21.66
			1	12	22.00	21.64	21.53	21.66
			1	24	22.00	21.53	21.39	21.43
			12	0	21.00	20.39	20.32	20.40
			12	6	21.00	20.42	20.34	20.54
			12	11	21.00	20.37	20.51	20.59
			25	0	21.00	20.38	20.57	20.62

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133172/668	133297/680.5	133422/693
LTE Band 71	10MHz	QPSK	1	0	23.00	22.38	22.06	22.54
			1	24	23.00	22.16	22.17	22.57
			1	49	23.00	22.13	22.15	22.32
			25	0	22.00	21.15	21.20	21.64
			25	12	22.00	21.32	21.33	21.64
			25	24	22.00	21.28	21.60	21.57
			50	0	22.00	21.29	21.56	21.69
		16QAM	1	0	22.00	21.42	21.43	21.71
			1	24	22.00	21.47	21.38	21.93
			1	49	22.00	21.38	21.43	21.74
			25	0	21.00	20.16	20.23	20.73
			25	12	21.00	20.30	20.39	20.65
			25	24	21.00	20.33	20.61	20.54
			50	0	21.00	20.31	20.65	20.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133197/670.5	133297/680.5	133397/690.5
LTE Band 71	15MHz	QPSK	1	0	23.00	22.46	22.32	22.54
			1	37	23.00	22.32	22.30	22.55
			1	74	23.00	22.10	22.17	22.43
			36	0	22.00	21.17	21.38	21.65
			36	18	22.00	21.44	21.42	21.63
			36	37	22.00	21.47	21.61	21.54
			75	0	22.00	21.29	21.67	21.62
		16QAM	1	0	22.00	21.39	21.50	21.82
			1	37	22.00	21.47	21.53	21.73
			1	74	22.00	21.33	21.49	21.77
			36	0	21.00	20.14	20.44	20.61
			36	18	21.00	20.44	20.42	20.60
			36	37	21.00	20.36	20.62	20.51
			75	0	21.00	20.43	20.66	20.59
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		133222/673	133322/683	133372/688
LTE Band 71	20MHz	QPSK	1	0	23.00	22.38	22.01	22.20
			1	49	23.00	22.25	22.16	22.12
			1	99	23.00	21.80	21.84	22.02
			50	0	22.00	21.18	21.29	21.04
			50	24	22.00	21.44	21.48	21.66
			50	49	22.00	21.69	21.68	21.44
			100	0	22.00	21.34	21.66	21.51
		16QAM	1	0	21.50	21.08	21.30	21.35
			1	49	21.50	21.47	21.39	21.29
			1	99	21.50	21.08	21.01	21.41

			50	0	21.00	20.13	20.30	20.07
			50	24	21.00	20.26	20.35	20.65
			50	49	21.00	20.42	20.69	20.42
			100	0	21.00	20.34	20.68	20.46

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11b	1	2412	14.00	13.32
	6	2437	14.00	13.94
	11	2462	14.00	13.83
802.11g	1	2412	14.00	12.87
	6	2437	14.00	13.60
	11	2462	14.00	12.94
802.11n HT20	1	2412	14.00	12.72
	6	2437	14.00	13.51
	11	2462	14.00	12.95
802.11n HT40	3	2422	13.50	12.51
	6	2437	13.50	13.23
	9	2452	13.50	12.66

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	36	5180	10.000	9.510
	40	5200	10.000	9.458
	48	5240	10.000	9.814
802.11n HT20	36	5180	10.000	9.699
	40	5200	10.000	9.377
	48	5240	10.000	9.780
802.11n HT40	38	5190	10.000	9.670
	46	5230	10.000	9.942
802.11ac VHT20	36	5180	10.000	9.795
	40	5200	10.000	9.333
	48	5240	10.000	9.773
802.11ac VHT40	38	5190	10.000	9.640
	46	5230	10.000	9.989
802.11ac VHT80	42	5210	9.500	9.457

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	149	5745	9.000	8.416
	157	5785	9.000	8.391
	165	5825	9.000	8.579
802.11n HT20	149	5745	9.000	8.226

	157	5785	9.000	8.217
	165	5825	9.000	8.588
802.11n HT40	151	5755	8.500	8.471
	159	5795	8.500	8.193
802.11ac VHT20	149	5745	8.500	7.916
	157	5785	8.500	8.036
	165	5825	8.500	8.462
802.11ac VHT40	151	5755	8.500	8.144
	159	5795	8.500	8.177
802.11ac VHT80	155	5775	9.000	8.974

BR+EDR	Output Power (dBm)				
	Channel	Tune-up	Data Rates		
			1M	2M	3M
	0CH	4.000	3.770	3.042	2.949
	39CH	4.000	3.251	2.971	2.783
	78CH	4.000	3.156	2.399	2.409

BLE	Channel	Tune-up	Output Power (dBm)	
			1M	2M
	0CH	-7.000	-7.619	-7.803
	19CH	-7.000	-7.250	-7.188
	39CH	-7.000	-7.604	-7.635

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