

LAT EIRP POWER FOR LTE BAND 2 (20.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
20.0MHz Band QPSK	100/0	1860.0	26.94	494.31
		1880.0	25.79	379.31
		1900.0	26.59	456.04
20MHz Band 16QAM	100/0	1860.0	25.96	394.46
		1880.0	24.92	310.46
		1900.0	25.66	368.13

UAT EIRP POWER FOR LTE BAND 2 (1.4 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
1.4MHz Band QPSK	6/0	1850.7	22.43	174.98
		1880.0	21.76	149.97
		1909.3	22.09	161.81
1.4MHz Band 16QAM	6/0	1850.7	22.30	169.82
		1880.0	21.63	145.55
		1909.3	21.96	157.04

UAT EIRP POWER FOR LTE BAND 2 (3.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
3.0MHz Band QPSK	15/0	1851.5	23.04	201.37
		1880.0	22.43	174.98
		1908.5	22.52	178.65
3.0MHz Band 16QAM	15/0	1851.5	21.91	155.24
		1880.0	21.30	134.90
		1908.5	21.39	137.72

UAT EIRP POWER FOR LTE BAND 2 (5.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
5.0MHz Band QPSK	25/0	1852.5	23.05	201.84
		1880.0	22.58	181.13
		1907.5	22.66	184.50
5.0MHz Band 16QAM	25/0	1852.5	22.52	178.65
		1880.0	22.05	160.32
		1907.5	22.13	163.31

UAT EIRP POWER FOR LTE BAND 2 (10.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
10.0MHz Band QPSK	50/0	1855.0	22.91	195.43
		1880.0	22.08	161.44
		1905.0	22.04	159.96
10.0MHz Band 16QAM	50/0	1855.0	21.77	150.31
		1880.0	20.94	124.17
		1905.0	20.90	123.03

UAT EIRP POWER FOR LTE BAND 2 (15.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
15MHz Band QPSK	75/0	1857.5	22.86	193.20
		1880.0	22.71	186.64
		1902.5	22.32	170.61
15MHz Band 16QAM	75/0	1857.5	22.79	190.11
		1880.0	22.64	183.65
		1902.5	22.25	167.88

UAT EIRP POWER FOR LTE BAND 2 (20.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
20.0MHz Band QPSK	100/0	1860.0	22.88	194.09
		1880.0	23.12	205.12
		1900.0	22.56	180.30
20MHz Band 16QAM	100/0	1860.0	21.93	155.96
		1880.0	22.17	164.82
		1900.0	21.61	144.88

LAT EIRP POWER FOR LTE BAND 4 (1.4 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
1.4 MHZ BAND QPSK	6/0	1710.7	26.32	428.55
		1732.5	26.25	421.70
		1754.3	25.68	369.83
1.4 MHZ BAND 16QAM	6/0	1710.7	24.62	289.73
		1732.5	25.53	357.27
		1754.3	25.00	316.23

LAT EIRP POWER FOR LTE BAND 4 (3.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
3.0 MHZ BAND QPSK	15/0	1711.5	25.12	325.09
		1732.5	26.24	420.73
		1753.5	25.60	363.08
3.0 MHZ BAND 16QAM	15/0	1711.5	24.37	273.53
		1732.5	25.58	361.41
		1753.5	24.86	306.20

LAT EIRP POWER FOR LTE BAND 4 (5.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
5.0 MHZ BAND QPSK	25/0	1712.5	24.92	310.46
		1732.5	26.28	424.62
		1752.5	25.72	373.25
5.0 MHZ BAND 16QAM	25/0	1712.5	24.54	284.45
		1732.5	25.75	375.84
		1752.5	24.98	314.77

LAT EIRP POWER FOR LTE BAND 4 (10.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
10.0 MHZ BAND QPSK	50/0	1715.0	25.15	327.34
		1732.5	26.29	425.60
		1750.0	25.79	379.31
10.0 MHZ BAND 16QAM	50/0	1715.0	24.66	292.42
		1732.5	25.61	363.92
		1750.0	25.22	332.66

LAT EIRP POWER FOR LTE BAND 4 (15.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
15.0 MHZ BAND QPSK	75/0	1717.5	25.48	353.18
		1732.5	26.30	426.58
		1747.5	25.75	375.84
15.0 MHZ BAND 16QAM	75/0	1717.5	25.93	391.74
		1732.5	26.78	476.43
		1747.5	26.10	407.38

LAT EIRP POWER FOR LTE BAND 4 (20.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
20.0 MHZ BAND QPSK	100/0	1720.0	25.07	321.37
		1732.5	26.19	415.91
		1745.0	25.64	366.44
20.0 MHZ BAND 16QAM	100/0	1720.0	24.11	257.63
		1732.5	25.21	331.89
		1745.0	24.61	289.07

UAT EIRP POWER FOR LTE BAND 4 (1.4 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
1.4 MHZ BAND QPSK	6/0	1710.7	22.12	162.93
		1732.5	22.67	184.93
		1754.3	22.16	164.44
1.4 MHZ BAND 16QAM	6/0	1710.7	21.27	133.97
		1732.5	21.82	152.05
		1754.3	21.31	135.21

UAT EIRP POWER FOR LTE BAND 4 (3.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
3.0 MHZ BAND QPSK	15/0	1711.5	21.91	155.24
		1732.5	22.84	192.31
		1753.5	22.15	164.06
3.0 MHZ BAND 16QAM	15/0	1711.5	20.71	117.76
		1732.5	21.64	145.88
		1753.5	20.95	124.45

UAT EIRP POWER FOR LTE BAND 4 (5.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
5.0 MHZ BAND QPSK	25/0	1712.5	22.18	165.20
		1732.5	22.80	190.55
		1752.5	22.22	166.72
5.0 MHZ BAND 16QAM	25/0	1712.5	21.35	136.46
		1732.5	21.97	157.40
		1752.5	21.39	137.72

UAT EIRP POWER FOR LTE BAND 4 (10.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
10.0 MHZ BAND QPSK	50/0	1715.0	22.04	159.96
		1732.5	22.69	185.78
		1750.0	22.22	166.72
10.0 MHZ BAND 16QAM	50/0	1715.0	21.00	125.89
		1732.5	21.65	146.22
		1750.0	21.18	131.22

UAT EIRP POWER FOR LTE BAND 4 (15.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
15.0 MHZ BAND QPSK	75/0	1717.5	21.79	151.01
		1732.5	22.33	171.00
		1747.5	22.67	184.93
15.0 MHZ BAND 16QAM	75/0	1717.5	20.74	118.58
		1732.5	21.28	134.28
		1747.5	21.62	145.21

UAT EIRP POWER FOR LTE BAND 4 (20.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
20.0 MHZ BAND QPSK	100/0	1720.0	21.44	139.32
		1732.5	22.34	171.40
		1745.0	22.55	179.89
20.0 MHZ BAND 16QAM	100/0	1720.0	20.46	111.17
		1732.5	21.36	136.77
		1745.0	21.57	143.55

LAT EIRP POWER FOR LTE BAND 5 (1.4 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
1.4MHz Band QPSK	1/0	824.7	20.59	114.55
		836.5	20.97	125.03
		848.3	21.65	146.22
1.4MHz Band 16QAM	1/0	824.7	19.35	86.10
		836.5	19.98	99.54
		848.3	20.74	118.58

LAT EIRP POWER FOR LTE BAND 5 (3.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
3.0 MHZ BAND QPSK	1/0	825.5	20.48	111.69
		836.5	20.96	124.74
		847.5	21.61	144.88
3.0 MHZ BAND 16QAM	1/0	825.5	19.10	81.28
		836.5	19.70	93.33
		847.5	20.54	113.24

LAT EIRP POWER FOR LTE BAND 5 (5.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
5MHz Band QPSK	1/0	826.5	21.02	126.47
		836.5	21.24	133.05
		846.5	21.67	146.89
5MHz Band 16QAM	1/0	826.5	20.09	102.09
		836.5	20.25	105.93
		846.5	20.90	123.03

LAT EIRP POWER FOR LTE BAND 5 (10.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
10.0 MHZ BAND QPSK	1/0	829.0	20.68	116.95
		836.5	21.35	136.46
		844.0	21.34	136.14
10.0 MHZ BAND 16QAM	1/0	829.0	19.88	97.27
		836.5	20.56	113.76
		844.0	20.48	111.69

UAT EIRP POWER FOR LTE BAND 5 (1.4 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
1.4MHz Band QPSK	1/0	824.7	19.19	82.99
		836.5	19.87	97.05
		848.3	19.75	94.41
1.4MHz Band 16QAM	1/0	824.7	18.17	65.61
		836.5	18.84	76.56
		848.3	18.45	69.98

UAT EIRP POWER FOR LTE BAND 5 (3.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
3.0 MHZ BAND QPSK	1/0	825.5	19.06	80.54
		836.5	19.80	95.50
		847.5	19.67	92.68
3.0 MHZ BAND 16QAM	1/0	825.5	18.01	63.24
		836.5	18.65	73.28
		847.5	18.71	74.30

UAT EIRP POWER FOR LTE BAND 5 (5.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
5MHz Band QPSK	1/0	826.5	18.92	77.98
		836.5	19.54	89.95
		846.5	19.47	88.51
5MHz Band 16QAM	1/0	826.5	18.01	63.24
		836.5	18.51	70.96
		846.5	18.38	68.87

UAT EIRP POWER FOR LTE BAND 5 (10.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
10.0 MHZ BAND QPSK	1/0	829.0	18.79	75.68
		836.5	19.38	86.70
		844.0	19.34	85.90
10.0 MHZ BAND 16QAM	1/0	829.0	17.46	55.72
		836.5	18.42	69.50
		844.0	18.15	65.31

LAT EIRP POWER FOR LTE BAND 13 (5.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
5.0 MHZ BAND QPSK	1/0	779.5	21.41	138.36
		782.0	21.82	152.05
		784.5	21.90	154.88
5.0 MHZ BAND 16QAM	1/0	779.5	20.59	114.55
		782.0	20.68	116.95
		784.5	21.14	130.02

LAT EIRP POWER FOR BAND 13 (10.0 MHz BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
10 MHZ BAND QPSK	1/0	782.0	21.78	150.66
10 MHz BAND 16QAM	1/0		21.05	127.35

UAT EIRP POWER FOR LTE BAND 13 (5.0 MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
5.0 MHZ BAND QPSK	1/0	779.5	17.30	53.70
		782.0	17.29	53.58
		784.5	17.37	54.58
5.0 MHZ BAND 16QAM	1/0	779.5	16.21	41.78
		782.0	16.22	41.88
		784.5	16.41	43.75

UAT EIRP POWER FOR BAND 13 (10.0 MHz BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
10 MHz BAND QPSK	1/0	782.0	17.25	53.09
10 MHz BAND 16QAM	1/0		16.32	42.85

LAT EIRP POWER FOR LTE BAND 17 (5.0 MHz BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
5MHz Band QPSK	1/0	706.5	18.17	65.61
		710.0	18.23	66.53
		713.5	19.10	81.28
5MHz Band 16QAM	1/0	706.5	17.37	54.58
		710.0	17.44	55.46
		713.5	18.27	67.14

LAT EIRP POWER FOR LTE BAND 17 (10.0 MHz BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
10.0 MHz BAND QPSK	1/0	709.0	18.37	68.71
		710.0	18.71	74.30
		711.0	18.95	78.52
10.0 MHz BAND 16QAM	1/0	709.0	17.50	56.23
		710.0	17.82	60.53
		711.0	18.13	65.01

UAT EIRP POWER FOR LTE BAND 17 (5.0 MHz BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
5MHz Band QPSK	1/0	706.5	18.28	67.30
		710.0	18.36	68.55
		713.5	18.64	73.11
5MHz Band 16QAM	1/0	706.5	17.57	57.15
		710.0	17.54	56.75
		713.5	17.89	61.52

UAT EIRP POWER FOR LTE BAND 17 (10.0 MHz BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
10.0 MHz BAND QPSK	1/0	709.0	18.49	70.63
		710.0	18.25	66.83
		711.0	18.68	73.79
10.0 MHz BAND 16QAM	1/0	709.0	17.40	54.95
		710.0	17.09	51.17
		711.0	17.59	57.41

LAT EIRP POWER FOR LTE BAND 25 (1.4MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
1.4 MHZ BAND QPSK	6/0	1850.7	26.71	468.81
		1880.0	26.01	399.02
		1914.3	26.85	484.17
1.4 MHZ BAND 16QAM	6/0	1850.7	25.77	377.57
		1880.0	25.00	316.23
		1914.3	25.90	389.05

LAT EIRP POWER FOR LTE BAND 25 (3.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
3.0 MHZ BAND QPSK	15/0	1851.5	26.83	481.95
		1880.0	26.11	408.32
		1913.5	26.72	469.89
3.0 MHZ BAND 16QAM	15/0	1851.5	26.00	398.11
		1880.0	25.21	331.89
		1913.5	25.88	387.26

LAT EIRP POWER FOR LTE BAND 25 (5.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
5.0 MHZ BAND QPSK	25/0	1852.5	26.81	479.73
		1880.0	26.13	410.20
		1912.5	26.55	451.86
5.0 MHZ BAND 16QAM	25/0	1852.5	26.13	410.20
		1880.0	25.38	345.14
		1912.5	25.86	385.48

LAT EIRP POWER FOR LTE BAND 25 (10.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
10.0 MHZ BAND QPSK	50/0	1855.0	26.80	478.63
		1880.0	25.94	392.64
		1910.0	26.58	454.99
10.0 MHZ BAND 16QAM	50/0	1855.0	26.05	402.72
		1880.0	25.12	325.09
		1910.0	25.82	381.94

LAT EIRP POWER FOR LTE BAND 25 (15.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
15.0 MHZ BAND QPSK	75/0	1857.5	26.86	485.29
		1880.0	26.06	403.65
		1907.5	26.65	462.38
15.0 MHZ BAND 16QAM	75/0	1857.5	25.82	381.94
		1880.0	24.95	312.61
		1907.5	25.60	363.08

LAT EIRP POWER FOR LTE BAND 25 (20.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
20.0 MHZ BAND QPSK	100/0	1860.0	26.84	483.06
		1880.0	26.13	410.20
		1905.0	26.72	469.89
20.0 MHZ BAND 16QAM	100/0	1860.0	25.86	385.48
		1880.0	25.08	322.11
		1905.0	25.73	374.11

UAT EIRP POWER FOR LTE BAND 25 (1.4MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
1.4 MHZ BAND QPSK	6/0	1850.7	23.05	201.84
		1880.0	21.85	153.11
		1914.3	22.79	190.11
1.4 MHZ BAND 16QAM	6/0	1850.7	22.18	165.20
		1880.0	20.98	125.31
		1914.3	21.92	155.60

UAT EIRP POWER FOR LTE BAND 25 (3.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
3.0 MHZ BAND QPSK	15/0	1851.5	22.98	198.61
		1880.0	22.17	164.82
		1913.5	23.07	202.77
3.0 MHZ BAND 16QAM	15/0	1851.5	21.94	156.31
		1880.0	21.13	129.72
		1913.5	22.03	159.59

UAT EIRP POWER FOR LTE BAND 25 (5.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
5.0 MHZ BAND QPSK	25/0	1852.5	23.18	207.97
		1880.0	21.98	157.76
		1912.5	22.58	181.13
5.0 MHZ BAND 16QAM	25/0	1852.5	22.48	177.01
		1880.0	21.28	134.28
		1912.5	21.88	154.17

UAT EIRP POWER FOR LTE BAND 25 (10.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
10.0 MHZ BAND QPSK	50/0	1855.0	23.14	206.06
		1880.0	21.88	154.17
		1910.0	22.28	169.04
10.0 MHZ BAND 16QAM	50/0	1855.0	21.98	157.76
		1880.0	20.72	118.03
		1910.0	21.12	129.42

UAT EIRP POWER FOR LTE BAND 25 (15.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
15.0 MHZ BAND QPSK	75/0	1857.5	23.11	204.64
		1880.0	22.48	177.01
		1907.5	22.65	184.08
15.0 MHZ BAND 16QAM	75/0	1857.5	21.96	157.04
		1880.0	21.33	135.83
		1907.5	21.50	141.25

UAT EIRP POWER FOR LTE BAND 25 (20.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
20.0 MHZ BAND QPSK	100/0	1860.0	22.84	192.31
		1880.0	23.04	201.37
		1905.0	22.78	189.67
20.0 MHZ BAND 16QAM	100/0	1860.0	21.69	147.57
		1880.0	21.89	154.53
		1905.0	21.63	145.55

LAT EIRP POWER FOR LTE BAND 26 (3.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
3.0 MHZ BAND QPSK	1/0	820.3	20.67	116.68
		821.3	21.00	125.89
		822.3	20.81	120.50
3.0 MHZ BAND 16QAM	1/0	820.3	19.78	95.06
		821.3	20.08	101.86
		822.3	20.05	101.16

LAT EIRP POWER FOR LTE BAND 26 (5.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
5.0 MHZ BAND QPSK	1/0	821.3	21.15	130.32
5.0 MHZ BAND 16QAM	1/0	821.3	20.25	105.93

LAT EIRP POWER FOR LTE BAND 26 (10.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
10.0 MHZ BAND QPSK	1/0	819.0	20.70	117.49
10.0 MHZ BAND 16QAM	1/0	819.0	20.12	102.80

UAT EIRP POWER FOR LTE BAND 26 (3.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Average)	
			dBm	mW
3.0 MHZ BAND QPSK	1/0	820.3	18.70	74.13
		821.3	18.76	75.16
		822.3	18.87	77.09
3.0 MHZ BAND 16QAM	1/0	820.3	17.45	55.59
		821.3	17.61	57.68
		822.3	17.65	58.21

UAT EIRP POWER FOR LTE BAND 26 (5.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
5.0 MHZ BAND QPSK	1/0	821.3	18.84	76.56
5.0 MHZ BAND 16QAM	1/0	821.3	18.01	63.24

UAT EIRP POWER FOR LTE BAND 26 (10.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP (Average)	
			dBm	mW
10.0 MHZ BAND QPSK	1/0	819.0	19.12	81.66
10.0 MHZ BAND 16QAM	1/0	819.0	18.07	64.12

LAT EIRP POWER FOR LTE BAND 41 (5.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Peak)	
			dBm	mW
5.0 MHZ BAND QPSK	25/0	2498.5	31.65	1462.18
		2593.0	30.65	1161.45
		2687.5	28.47	703.07
5.0 MHZ BAND 16QAM	25/0	24.98.5	31.28	1342.76
		2593.0	30.35	1083.93
		2687.5	28.34	682.34

LAT EIRP POWER FOR LTE BAND 41 (10.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Peak)	
			dBm	mW
10.0 MHZ BAND QPSK	50/0	2501.0	31.97	1573.98
		2593.0	31.06	1276.44
		2685.0	28.45	699.84
10.0 MHZ BAND 16QAM	50/0	2501.0	31.48	1406.05
		2593.0	30.64	1158.78
		2685.0	28.00	630.96

LAT EIRP POWER FOR LTE BAND 41 (15.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Peak)	
			dBm	mW
15.0 MHZ BAND QPSK	75/0	2503.5	32.00	1584.89
		2593.0	30.71	1177.61
		2682.5	28.30	676.08
15.0 MHZ BAND 16QAM	75/0	2503.5	31.55	1428.89
		2593.0	30.29	1069.05
		2682.5	27.85	609.54

LAT EIRP POWER FOR LTE BAND 41 (20.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Peak)	
			dBm	mW
20.0 MHZ BAND QPSK	100/0	2506.0	31.86	1534.62
		2593.0	30.39	1093.96
		2680.0	28.18	657.66
20.0 MHZ BAND 16QAM	100/0	2506.0	30.55	1135.01
		2593.0	29.21	833.68
		2680.0	26.88	487.53

UAT EIRP POWER FOR LTE BAND 41 (5.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Peak)	
			dBm	mW
5.0 MHZ BAND QPSK	25/0	2498.5	28.10	645.65
		2593.0	27.77	598.41
		2687.5	29.04	801.68
5.0 MHZ BAND 16QAM	25/0	24.98.5	27.97	626.61
		2593.0	27.35	543.25
		2687.5	28.82	762.08

UAT EIRP POWER FOR LTE BAND 41 (10.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Peak)	
			dBm	mW
10.0 MHZ BAND QPSK	50/0	2501.0	28.91	778.04
		2593.0	28.25	668.34
		2685.0	29.58	907.82
10.0 MHZ BAND 16QAM	50/0	2501.0	28.59	722.77
		2593.0	27.78	599.79
		2685.0	29.01	796.16

UAT EIRP POWER FOR LTE BAND 41 (15.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Peak)	
			dBm	mW
15.0 MHZ BAND QPSK	75/0	2503.5	28.97	788.86
		2593.0	28.36	685.49
		2682.5	29.57	905.73
15.0 MHZ BAND 16QAM	75/0	2503.5	28.91	778.04
		2593.0	28.29	674.53
		2682.5	29.28	847.23

UAT EIRP POWER FOR LTE BAND 41 (20.0MHZ BAND WIDTH)

Mode	RB/RB SIZE	f (MHz)	EIRP(Peak)	
			dBm	mW
20.0 MHZ BAND QPSK	100/0	2506.0	29.48	887.16
		2593.0	28.89	774.46
		2680.0	29.84	963.83
20.0 MHZ BAND 16QAM	100/0	2506.0	29.22	835.60
		2593.0	28.50	707.95
		2680.0	29.56	903.65

9.1.1. LTE BAND 2

LAT QPSK EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 QPSK 1.4MHz BW						
<u>Test Equipment:</u>								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.851	18.9	V	0.98	7.88	25.79	33.0	-7.2	
1.851	19.7	H	0.98	7.88	26.63	33.0	-6.4	
Mid Ch								
1.880	17.6	V	0.98	7.86	24.47	33.0	-8.5	
1.880	20.0	H	0.98	7.86	26.92	33.0	-6.1	
High Ch								
1.909	18.7	V	0.98	7.84	25.58	33.0	-7.4	
1.909	19.8	H	0.98	7.84	26.66	33.0	-6.3	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 16QAM 1.4MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.851	18.0	V	0.98	7.88	24.89	33.0	-8.1	
1.851	18.3	H	0.98	7.88	25.19	33.0	-7.8	
Mid Ch								
1.880	16.7	V	0.98	7.86	23.59	33.0	-9.4	
1.880	18.8	H	0.98	7.86	25.70	33.0	-7.3	
High Ch								
1.909	17.8	V	0.98	7.84	24.63	33.0	-8.4	
1.909	19.1	H	0.98	7.84	25.95	33.0	-7.1	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 QPSK 3MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.852	17.7	V	0.98	7.88	24.62	33.0	-8.4	
1.852	20.0	H	0.98	7.88	26.88	33.0	-6.1	
Mid Ch								
1.880	17.9	V	0.98	7.86	24.77	33.0	-8.2	
1.880	19.8	H	0.98	7.86	26.67	33.0	-6.3	
High Ch								
1.909	18.4	V	0.98	7.84	25.27	33.0	-7.7	
1.909	19.6	H	0.98	7.84	26.43	33.0	-6.6	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 16QAM 3MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.852	16.9	V	0.98	7.88	23.78	33.0	-9.2	
1.852	18.4	H	0.98	7.88	25.29	33.0	-7.7	
Mid Ch								
1.880	16.9	V	0.98	7.86	23.80	33.0	-9.2	
1.880	18.7	H	0.98	7.86	25.60	33.0	-7.4	
High Ch								
1.909	16.8	V	0.98	7.84	23.63	33.0	-9.4	
1.909	18.2	H	0.98	7.84	25.06	33.0	-7.9	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 2 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 QPSK 5MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.853	17.3	V	0.98	7.88	24.16	33.0	-8.8	
1.853	19.2	H	0.98	7.88	26.08	33.0	-6.9	
Mid Ch								
1.880	17.8	V	0.98	7.86	24.67	33.0	-8.3	
1.880	20.0	H	0.98	7.86	26.91	33.0	-6.1	
High Ch								
1.908	17.6	V	0.98	7.84	24.50	33.0	-8.5	
1.908	19.7	H	0.98	7.84	26.56	33.0	-6.4	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 2 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 16QAM 5MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.853	17.5	V	0.98	7.88	24.39	33.0	-8.6	
1.853	19.3	H	0.98	7.88	26.23	33.0	-6.8	
Mid Ch								
1.880	16.0	V	0.98	7.86	22.87	33.0	-10.1	
1.880	18.2	H	0.98	7.86	25.03	33.0	-8.0	
High Ch								
1.908	17.7	V	0.98	7.84	24.59	33.0	-8.4	
1.908	18.7	H	0.98	7.84	25.60	33.0	-7.4	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 2 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 QPSK 10MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.855	18.1	V	0.98	7.88	24.96	33.0	-8.0	
1.855	20.0	H	0.98	7.88	26.89	33.0	-6.1	
Mid Ch								
1.880	16.0	V	0.98	7.86	22.92	33.0	-10.1	
1.880	18.6	H	0.98	7.86	25.52	33.0	-7.5	
High Ch								
1.905	18.1	V	0.98	7.84	24.98	33.0	-8.0	
1.905	19.0	H	0.98	7.84	25.90	33.0	-7.1	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 2 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 16QAM 10MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.855	17.2	V	0.98	7.88	24.08	33.0	-8.9	
1.855	19.1	H	0.98	7.88	26.03	33.0	-7.0	
Mid Ch								
1.880	15.2	V	0.98	7.86	22.06	33.0	-10.9	
1.880	17.8	H	0.98	7.86	24.63	33.0	-8.4	
High Ch								
1.905	17.1	V	0.98	7.84	24.00	33.0	-9.0	
1.905	18.3	H	0.98	7.84	25.16	33.0	-7.8	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 2 (15.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 QPSK 15MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.858	18.1	V	0.98	7.88	25.00	33.0	-8.0	
1.858	20.0	H	0.98	7.88	26.90	33.0	-6.1	
Mid Ch								
1.880	16.6	V	0.98	7.86	23.44	33.0	-9.6	
1.880	18.9	H	0.98	7.86	25.76	33.0	-7.2	
High Ch								
1.903	17.5	V	0.98	7.84	24.36	33.0	-8.6	
1.903	19.5	H	0.98	7.84	26.36	33.0	-6.6	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 2 (15.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 16QAM 15MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.858	17.1	V	0.98	7.88	23.98	33.0	-9.0	
1.858	19.0	H	0.98	7.88	25.91	33.0	-7.1	
Mid Ch								
1.880	15.3	V	0.98	7.86	22.19	33.0	-10.8	
1.880	17.7	H	0.98	7.86	24.62	33.0	-8.4	
High Ch								
1.903	16.3	V	0.98	7.84	23.11	33.0	-9.9	
1.903	18.4	H	0.98	7.84	25.27	33.0	-7.7	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 QPSK 20MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.860	17.3	V	0.98	7.88	24.22	33.0	-8.8	
1.860	20.0	H	0.98	7.88	26.94	33.0	-6.1	
Mid Ch								
1.880	15.5	V	0.98	7.86	22.34	33.0	-10.7	
1.880	18.9	H	0.98	7.86	25.79	33.0	-7.2	
High Ch								
1.900	17.2	V	0.98	7.84	24.10	33.0	-8.9	
1.900	19.7	H	0.98	7.84	26.59	33.0	-6.4	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 2 16QAM 20MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.860	16.4	V	0.98	7.88	23.27	33.0	-9.7	
1.860	19.1	H	0.98	7.88	25.96	33.0	-7.0	
Mid Ch								
1.880	14.5	V	0.98	7.86	21.41	33.0	-11.6	
1.880	18.0	H	0.98	7.86	24.92	33.0	-8.1	
High Ch								
1.900	16.2	V	0.98	7.84	23.09	33.0	-9.9	
1.900	18.8	H	0.98	7.84	25.66	33.0	-7.3	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 QPSK 1.4MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.851	9.3	V	0.98	7.88	16.23	33.0	-16.8	
1.851	15.5	H	0.98	7.88	22.43	33.0	-10.6	
Mid Ch								
1.880	9.5	V	0.98	7.86	16.37	33.0	-16.6	
1.880	14.9	H	0.98	7.86	21.76	33.0	-11.2	
High Ch								
1.909	9.6	V	0.98	7.84	16.41	33.0	-16.6	
1.909	15.2	H	0.98	7.84	22.09	33.0	-10.9	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 16QAM 1.4MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.851	9.2	V	0.98	7.88	16.10	33.0	-16.9	
1.851	15.4	H	0.98	7.88	22.30	33.0	-10.7	
Mid Ch								
1.880	9.4	V	0.98	7.86	16.24	33.0	-16.8	
1.880	14.8	H	0.98	7.86	21.63	33.0	-11.4	
High Ch								
1.909	9.4	V	0.98	7.84	16.28	33.0	-16.7	
1.909	15.1	H	0.98	7.84	21.96	33.0	-11.0	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 QPSK 3MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.852	10.7	V	0.98	7.88	17.63	33.0	-15.4	
1.852	16.1	H	0.98	7.88	23.04	33.0	-10.0	
Mid Ch								
1.880	10.2	V	0.98	7.86	17.07	33.0	-15.9	
1.880	15.6	H	0.98	7.86	22.43	33.0	-10.6	
High Ch								
1.909	10.6	V	0.98	7.84	17.41	33.0	-15.6	
1.909	15.7	H	0.98	7.84	22.52	33.0	-10.5	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 16QAM 3MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.852	9.6	V	0.98	7.88	16.50	33.0	-16.5	
1.852	15.0	H	0.98	7.88	21.91	33.0	-11.1	
Mid Ch								
1.880	9.1	V	0.98	7.86	15.94	33.0	-17.1	
1.880	14.4	H	0.98	7.86	21.30	33.0	-11.7	
High Ch								
1.909	9.4	V	0.98	7.84	16.28	33.0	-16.7	
1.909	14.5	H	0.98	7.84	21.39	33.0	-11.6	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 2 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 QPSK 5MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.853	9.9	V	0.98	7.88	16.83	33.0	-16.2	
1.853	16.2	H	0.98	7.88	23.05	33.0	-10.0	
Mid Ch								
1.880	10.4	V	0.98	7.86	17.27	33.0	-15.7	
1.880	15.7	H	0.98	7.86	22.58	33.0	-10.4	
High Ch								
1.908	10.9	V	0.98	7.84	17.71	33.0	-15.3	
1.908	15.8	H	0.98	7.84	22.66	33.0	-10.3	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 2 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 16QAM 5MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.853	9.4	V	0.98	7.88	16.30	33.0	-16.7	
1.853	15.6	H	0.98	7.88	22.52	33.0	-10.5	
Mid Ch								
1.880	9.9	V	0.98	7.86	16.74	33.0	-16.3	
1.880	15.2	H	0.98	7.86	22.05	33.0	-11.0	
High Ch								
1.908	10.3	V	0.98	7.84	17.18	33.0	-15.8	
1.908	15.3	H	0.98	7.84	22.13	33.0	-10.9	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 2 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 QPSK 10MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.855	11.5	V	0.98	7.88	18.43	33.0	-14.6	
1.855	16.0	H	0.98	7.88	22.91	33.0	-10.1	
Mid Ch								
1.880	10.1	V	0.98	7.86	16.93	33.0	-16.1	
1.880	15.2	H	0.98	7.86	22.08	33.0	-10.9	
High Ch								
1.905	9.8	V	0.98	7.84	16.65	33.0	-16.4	
1.905	15.2	H	0.98	7.84	22.04	33.0	-11.0	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 2 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 16QAM 10MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.855	10.4	V	0.98	7.88	17.29	33.0	-15.7	
1.855	14.9	H	0.98	7.88	21.77	33.0	-11.2	
Mid Ch								
1.880	8.9	V	0.98	7.86	15.79	33.0	-17.2	
1.880	14.1	H	0.98	7.86	20.94	33.0	-12.1	
High Ch								
1.905	8.7	V	0.98	7.84	15.51	33.0	-17.5	
1.905	14.0	H	0.98	7.84	20.90	33.0	-12.1	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 2 (15.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 QPSK 15MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.858	11.0	V	0.98	7.88	17.94	33.0	-15.1	
1.858	16.0	H	0.98	7.88	22.86	33.0	-10.1	
Mid Ch								
1.880	10.5	V	0.98	7.86	17.40	33.0	-15.6	
1.880	15.8	H	0.98	7.86	22.71	33.0	-10.3	
High Ch								
1.903	10.8	V	0.98	7.84	17.61	33.0	-15.4	
1.903	15.5	H	0.98	7.84	22.32	33.0	-10.7	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 2 (15.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 16QAM 15MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.858	11.0	V	0.98	7.88	17.87	33.0	-15.1	
1.858	15.9	H	0.98	7.88	22.79	33.0	-10.2	
Mid Ch								
1.880	10.5	V	0.98	7.86	17.33	33.0	-15.7	
1.880	15.8	H	0.98	7.86	22.64	33.0	-10.4	
High Ch								
1.903	10.7	V	0.98	7.84	17.54	33.0	-15.5	
1.903	15.4	H	0.98	7.84	22.25	33.0	-10.8	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 QPSK 20MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.860	10.9	V	0.98	7.88	17.77	33.0	-15.2	
1.860	16.0	H	0.98	7.88	22.88	33.0	-10.1	
Mid Ch								
1.880	10.0	V	0.98	7.86	16.91	33.0	-16.1	
1.880	16.2	H	0.98	7.86	23.12	33.0	-9.9	
High Ch								
1.900	9.5	V	0.98	7.84	16.35	33.0	-16.7	
1.900	15.7	H	0.98	7.84	22.56	33.0	-10.4	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 2 16QAM 20MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.860	9.9	V	0.98	7.88	16.82	33.0	-16.2	
1.860	15.0	H	0.98	7.88	21.93	33.0	-11.1	
Mid Ch								
1.880	9.1	V	0.98	7.86	15.96	33.0	-17.0	
1.880	15.3	H	0.98	7.86	22.17	33.0	-10.8	
High Ch								
1.900	8.5	V	0.98	7.84	15.40	33.0	-17.6	
1.900	14.8	H	0.98	7.84	21.61	33.0	-11.4	
Rev. 06.18.14								

9.1.2. LTE BAND 4

LAT QPSK EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 QPSK 1.4MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.711	16.8	V	0.95	8.25	24.09	30.0	-5.9	
1.711	19.0	H	0.95	8.25	26.32	30.0	-3.7	
Mid Ch								
1.733	17.1	V	0.95	8.17	24.34	30.0	-5.7	
1.733	19.0	H	0.95	8.17	26.25	30.0	-3.8	
High Ch								
1.754	17.1	V	0.95	8.09	24.26	30.0	-5.7	
1.754	18.5	H	0.95	8.09	25.68	30.0	-4.3	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 16QAM 1.4MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.711	14.8	V	0.95	8.25	22.07	30.0	-7.9	
1.711	17.3	H	0.95	8.25	24.62	30.0	-5.4	
Mid Ch								
1.733	15.4	V	0.95	8.17	22.58	30.0	-7.4	
1.733	18.3	H	0.95	8.17	25.53	30.0	-4.5	
High Ch								
1.754	15.4	V	0.95	8.09	22.52	30.0	-7.5	
1.754	17.9	H	0.95	8.09	25.00	30.0	-5.0	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 QPSK 3MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.712	15.5	V	0.95	8.25	22.75	30.0	-7.3	
1.712	17.8	H	0.95	8.25	25.12	30.0	-4.9	
Mid Ch								
1.733	15.9	V	0.95	8.17	23.13	30.0	-6.9	
1.733	19.0	H	0.95	8.17	26.24	30.0	-3.8	
High Ch								
1.754	15.7	V	0.95	8.09	22.87	30.0	-7.1	
1.754	18.5	H	0.95	8.09	25.60	30.0	-4.4	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 16QAM 3MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.712	14.5	V	0.95	8.25	21.82	30.0	-8.2	
1.712	17.1	H	0.95	8.25	24.37	30.0	-5.6	
Mid Ch								
1.733	15.2	V	0.95	8.17	22.40	30.0	-7.6	
1.733	18.4	H	0.95	8.17	25.58	30.0	-4.4	
High Ch								
1.754	15.0	V	0.95	8.09	22.15	30.0	-7.9	
1.754	17.7	H	0.95	8.09	24.86	30.0	-5.1	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 QPSK 5MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.713	15.5	V	0.95	8.25	22.80	30.0	-7.2	
1.713	17.6	H	0.95	8.25	24.92	30.0	-5.1	
Mid Ch								
1.733	15.9	V	0.95	8.17	23.08	30.0	-6.9	
1.733	19.1	H	0.95	8.17	26.28	30.0	-3.7	
High Ch								
1.753	15.8	V	0.95	8.09	22.98	30.0	-7.0	
1.753	18.6	H	0.95	8.09	25.72	30.0	-4.3	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 16QAM 5MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.713	14.9	V	0.95	8.25	22.22	30.0	-7.8	
1.713	17.2	H	0.95	8.25	24.54	30.0	-5.5	
Mid Ch								
1.733	15.2	V	0.95	8.17	22.39	30.0	-7.6	
1.733	18.5	H	0.95	8.17	25.75	30.0	-4.3	
High Ch								
1.753	15.1	V	0.95	8.09	22.21	30.0	-7.8	
1.753	17.8	H	0.95	8.09	24.98	30.0	-5.0	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 QPSK 10MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.715	15.5	V	0.95	8.25	22.75	30.0	-7.3	
1.715	17.9	H	0.95	8.25	25.15	30.0	-4.9	
Mid Ch								
1.733	15.9	V	0.95	8.17	23.15	30.0	-6.9	
1.733	19.1	H	0.95	8.17	26.29	30.0	-3.7	
High Ch								
1.750	16.1	V	0.95	8.09	23.21	30.0	-6.8	
1.750	18.7	H	0.95	8.09	25.79	30.0	-4.2	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 16QAM 10MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.715	14.9	V	0.95	8.25	22.18	30.0	-7.8	
1.715	17.4	H	0.95	8.25	24.66	30.0	-5.3	
Mid Ch								
1.733	15.4	V	0.95	8.17	22.65	30.0	-7.4	
1.733	18.4	H	0.95	8.17	25.61	30.0	-4.4	
High Ch								
1.750	15.6	V	0.95	8.09	22.75	30.0	-7.3	
1.750	18.1	H	0.95	8.09	25.22	30.0	-4.8	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 QPSK 15MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.718	15.6	V	0.95	8.25	22.94	30.0	-7.1	
1.718	18.2	H	0.95	8.25	25.48	30.0	-4.5	
Mid Ch								
1.733	16.2	V	0.95	8.17	23.38	30.0	-6.6	
1.733	19.1	H	0.95	8.17	26.30	30.0	-3.7	
High Ch								
1.748	16.2	V	0.95	8.09	23.36	30.0	-6.6	
1.748	18.6	H	0.95	8.09	25.75	30.0	-4.3	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 QPSK 15MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.718	16.2	V	0.95	8.25	23.48	30.0	-6.5	
1.718	18.6	H	0.95	8.25	25.93	30.0	-4.1	
Mid Ch								
1.733	16.6	V	0.95	8.17	23.81	30.0	-6.2	
1.733	19.6	H	0.95	8.17	26.78	30.0	-3.2	
High Ch								
1.748	16.5	V	0.95	8.09	23.67	30.0	-6.3	
1.748	19.0	H	0.95	8.09	26.10	30.0	-3.9	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 QPSK 20MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.720	15.8	V	0.95	8.25	23.10	30.0	-6.9	
1.720	17.8	H	0.95	8.25	25.07	30.0	-4.9	
Mid Ch								
1.733	16.1	V	0.95	8.17	23.28	30.0	-6.7	
1.733	19.0	H	0.95	8.17	26.19	30.0	-3.8	
High Ch								
1.745	15.3	V	0.95	8.09	22.40	30.0	-7.6	
1.745	18.5	H	0.95	8.09	25.64	30.0	-4.4	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		M. Hua						
Configuration:		EUT Only						
Mode:		LTE Band 4 16QAM 20MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.720	14.8	V	0.95	8.25	22.12	30.0	-7.9	
1.720	16.8	H	0.95	8.25	24.11	30.0	-5.9	
Mid Ch								
1.733	15.1	V	0.95	8.17	22.32	30.0	-7.7	
1.733	18.0	H	0.95	8.17	25.21	30.0	-4.8	
High Ch								
1.745	14.2	V	0.95	8.09	21.38	30.0	-8.6	
1.745	17.5	H	0.95	8.09	24.61	30.0	-5.4	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 QPSK 1.4MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.711	7.9	V	0.95	8.25	15.17	30.0	-14.8	
1.711	14.8	H	0.95	8.25	22.12	30.0	-7.9	
Mid Ch								
1.733	8.0	V	0.95	8.17	15.24	30.0	-14.8	
1.733	15.5	H	0.95	8.17	22.67	30.0	-7.3	
High Ch								
1.754	8.1	V	0.95	8.09	15.23	30.0	-14.8	
1.754	15.0	H	0.95	8.09	22.16	30.0	-7.8	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 16QAM 1.4MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.711	7.0	V	0.95	8.25	14.32	30.0	-15.7	
1.711	14.0	H	0.95	8.25	21.27	30.0	-8.7	
Mid Ch								
1.733	7.2	V	0.95	8.17	14.39	30.0	-15.6	
1.733	14.6	H	0.95	8.17	21.82	30.0	-8.2	
High Ch								
1.754	7.2	V	0.95	8.09	14.38	30.0	-15.6	
1.754	14.2	H	0.95	8.09	21.31	30.0	-8.7	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 QPSK 3MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.712	8.2	V	0.95	8.25	15.46	30.0	-14.5	
1.712	14.6	H	0.95	8.25	21.91	30.0	-8.1	
Mid Ch								
1.733	8.0	V	0.95	8.17	15.19	30.0	-14.8	
1.733	15.6	H	0.95	8.17	22.84	30.0	-7.2	
High Ch								
1.754	6.3	V	0.95	8.09	13.42	30.0	-16.6	
1.754	15.0	H	0.95	8.09	22.15	30.0	-7.9	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 16QAM 3MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.712	7.0	V	0.95	8.25	14.26	30.0	-15.7	
1.712	13.4	H	0.95	8.25	20.71	30.0	-9.3	
Mid Ch								
1.733	6.8	V	0.95	8.17	13.99	30.0	-16.0	
1.733	14.4	H	0.95	8.17	21.64	30.0	-8.4	
High Ch								
1.754	5.1	V	0.95	8.09	12.22	30.0	-17.8	
1.754	13.8	H	0.95	8.09	20.95	30.0	-9.1	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 QPSK 5MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.713	7.4	V	0.95	8.25	14.73	30.0	-15.3	
1.713	14.9	H	0.95	8.25	22.18	30.0	-7.8	
Mid Ch								
1.733	7.6	V	0.95	8.17	14.80	30.0	-15.2	
1.733	15.6	H	0.95	8.17	22.80	30.0	-7.2	
High Ch								
1.753	7.4	V	0.95	8.09	14.49	30.0	-15.5	
1.753	15.1	H	0.95	8.09	22.22	30.0	-7.8	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 16QAM 5MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.713	6.6	V	0.95	8.25	13.90	30.0	-16.1	
1.713	14.1	H	0.95	8.25	21.35	30.0	-8.7	
Mid Ch								
1.733	6.8	V	0.95	8.17	13.97	30.0	-16.0	
1.733	14.8	H	0.95	8.17	21.97	30.0	-8.0	
High Ch								
1.753	6.5	V	0.95	8.09	13.66	30.0	-16.3	
1.753	14.3	H	0.95	8.09	21.39	30.0	-8.6	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 QPSK 10MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.715	6.9	V	0.95	8.25	14.15	30.0	-15.9	
1.715	14.7	H	0.95	8.25	22.04	30.0	-8.0	
Mid Ch								
1.733	6.9	V	0.95	8.17	14.16	30.0	-15.8	
1.733	15.5	H	0.95	8.17	22.69	30.0	-7.3	
High Ch								
1.750	7.8	V	0.95	8.09	14.95	30.0	-15.1	
1.750	15.1	H	0.95	8.09	22.22	30.0	-7.8	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 16QAM 10MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.715	5.8	V	0.95	8.25	13.11	30.0	-16.9	
1.715	13.7	H	0.95	8.25	21.00	30.0	-9.0	
Mid Ch								
1.733	5.9	V	0.95	8.17	13.12	30.0	-16.9	
1.733	14.4	H	0.95	8.17	21.65	30.0	-8.4	
High Ch								
1.750	6.8	V	0.95	8.09	13.91	30.0	-16.1	
1.750	14.0	H	0.95	8.09	21.18	30.0	-8.8	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 QPSK 15MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.718	6.9	V	0.95	8.25	14.18	30.0	-15.8	
1.718	14.5	H	0.95	8.25	21.79	30.0	-8.2	
Mid Ch								
1.733	7.3	V	0.95	8.17	14.52	30.0	-15.5	
1.733	15.1	H	0.95	8.17	22.33	30.0	-7.7	
High Ch								
1.748	7.7	V	0.95	8.09	14.84	30.0	-15.2	
1.748	15.5	H	0.95	8.09	22.67	30.0	-7.3	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 QPSK 15MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.718	5.8	V	0.95	8.25	13.13	30.0	-16.9	
1.718	13.4	H	0.95	8.25	20.74	30.0	-9.3	
Mid Ch								
1.733	6.3	V	0.95	8.17	13.47	30.0	-16.5	
1.733	14.1	H	0.95	8.17	21.28	30.0	-8.7	
High Ch								
1.748	6.7	V	0.95	8.09	13.79	30.0	-16.2	
1.748	14.5	H	0.95	8.09	21.62	30.0	-8.4	
Rev. 06.18.14								

UAT QPSK EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 QPSK 20MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.720	7.6	V	0.95	8.25	14.94	30.0	-15.1	
1.720	14.1	H	0.95	8.25	21.44	30.0	-8.6	
Mid Ch								
1.733	7.6	V	0.95	8.17	14.81	30.0	-15.2	
1.733	15.1	H	0.95	8.17	22.34	30.0	-7.7	
High Ch								
1.745	7.6	V	0.95	8.09	14.70	30.0	-15.3	
1.745	15.4	H	0.95	8.09	22.55	30.0	-7.5	
Rev. 06.18.14								

UAT 16QAM EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/24/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 4 16QAM 20MHz BW						
Test Equipment:								
Receiving: Horn T344 and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.720	6.7	V	0.95	8.25	13.96	30.0	-16.0	
1.720	13.2	H	0.95	8.25	20.46	30.0	-9.5	
Mid Ch								
1.733	6.6	V	0.95	8.17	13.83	30.0	-16.2	
1.733	14.1	H	0.95	8.17	21.36	30.0	-8.6	
High Ch								
1.745	6.6	V	0.95	8.09	13.72	30.0	-16.3	
1.745	14.4	H	0.95	8.09	21.57	30.0	-8.4	
Rev. 06.18.14								

9.1.3. LTE BAND 5

LAT QPSK EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 QPSK 1.4MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERIP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
824.70	11.40	V	0.6	0.0	10.78	12.93	38.45	40.60	-27.7	
824.70	19.06	H	0.6	0.0	18.44	20.59	38.45	40.60	-20.0	
Mid Ch										
836.50	11.67	V	0.6	0.0	11.05	13.20	38.45	40.60	-27.4	
836.50	19.44	H	0.6	0.0	18.82	20.97	38.45	40.60	-19.6	
High Ch										
848.30	11.36	V	0.6	0.0	10.74	12.89	38.45	40.60	-27.7	
848.30	20.12	H	0.6	0.0	19.50	21.65	38.45	40.60	-19.0	
Rev. 06.18.14										

LAT 16QAM EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 16QAM 1.4MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
824.70	10.32	V	0.6	0.0	9.70	11.85	38.45	40.60	-28.7	
824.70	17.82	H	0.6	0.0	17.20	19.35	38.45	40.60	-21.2	
Mid Ch										
836.50	10.79	V	0.6	0.0	10.17	12.32	38.45	40.60	-28.3	
836.50	18.45	H	0.6	0.0	17.83	19.98	38.45	40.60	-20.6	
High Ch										
848.30	10.23	V	0.6	0.0	9.61	11.76	38.45	40.60	-28.8	
848.30	19.21	H	0.6	0.0	18.59	20.74	38.45	40.60	-19.9	
Rev. 06.18.14										

LAT QPSK EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 QPSK 3MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
825.50	11.15	V	0.6	0.0	10.53	12.68	38.45	40.60	-27.9	
825.50	18.95	H	0.6	0.0	18.33	20.48	38.45	40.60	-20.1	
Mid Ch										
836.50	11.37	V	0.6	0.0	10.75	12.90	38.45	40.60	-27.7	
836.50	19.43	H	0.6	0.0	18.81	20.96	38.45	40.60	-19.6	
High Ch										
847.50	11.27	V	0.6	0.0	10.65	12.80	38.45	40.60	-27.8	
847.50	20.08	H	0.6	0.0	19.46	21.61	38.45	40.60	-19.0	
Rev. 06.18.14										

LAT 16QAM EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 16QAM 3MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
825.50	10.00	V	0.6	0.0	9.38	11.53	38.45	40.60	-29.1	
825.50	17.57	H	0.6	0.0	16.95	19.10	38.45	40.60	-21.5	
Mid Ch										
836.50	10.24	V	0.6	0.0	9.62	11.77	38.45	40.60	-28.8	
836.50	18.17	H	0.6	0.0	17.55	19.70	38.45	40.60	-20.9	
High Ch										
847.50	10.04	V	0.6	0.0	9.42	11.57	38.45	40.60	-29.0	
847.50	19.01	H	0.6	0.0	18.39	20.54	38.45	40.60	-20.1	
Rev. 06.18.14										

LAT QPSK EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D											
Project #:		14U17676									
Date:		06/24/14									
Test Engineer:		M. Hua									
Configuration:		EUT Only									
Mode:		LTE Band 5 QPSK 5MHz BW									
Test Equipment:											
Receiving: Sunol T407, and Chamber D Cable											
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable											
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes	
Low Ch											
826.50	11.72	V	0.6	0.0	11.10	13.25	38.45	40.60	-27.3		
826.50	19.49	H	0.6	0.0	18.87	21.02	38.45	40.60	-19.6		
Mid Ch											
836.50	11.83	V	0.6	0.0	11.21	13.36	38.45	40.60	-27.2		
836.50	19.71	H	0.6	0.0	19.09	21.24	38.45	40.60	-19.4		
High Ch											
846.50	11.85	V	0.6	0.0	11.23	13.38	38.45	40.60	-27.2		
846.50	20.14	H	0.6	0.0	19.52	21.67	38.45	40.60	-18.9		
Rev. 06.18.14											

LAT 16QAM EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 16QAM 5MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
826.50	10.73	V	0.6	0.0	10.11	12.26	38.45	40.60	-28.3	
826.50	18.56	H	0.6	0.0	17.94	20.09	38.45	40.60	-20.5	
Mid Ch										
836.50	10.90	V	0.6	0.0	10.28	12.43	38.45	40.60	-28.2	
836.50	18.72	H	0.6	0.0	18.10	20.25	38.45	40.60	-20.3	
High Ch										
846.50	10.90	V	0.6	0.0	10.28	12.43	38.45	40.60	-28.2	
846.50	19.37	H	0.6	0.0	18.75	20.90	38.45	40.60	-19.7	
Rev. 06.18.14										

LAT QPSK EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 QPSK 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
829.00	11.46	V	0.6	0.0	10.84	12.99	38.45	40.60	-27.6	
829.00	19.15	H	0.6	0.0	18.53	20.68	38.45	40.60	-19.9	
Mid Ch										
836.50	11.57	V	0.6	0.0	10.95	13.10	38.45	40.60	-27.5	
836.50	19.82	H	0.6	0.0	19.20	21.35	38.45	40.60	-19.2	
High Ch										
844.00	11.38	V	0.6	0.0	10.76	12.91	38.45	40.60	-27.7	
844.00	19.81	H	0.6	0.0	19.19	21.34	38.45	40.60	-19.3	
Rev. 06.18.14										

LAT 16QAM EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 16QAM 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
829.00	10.72	V	0.6	0.0	10.10	12.25	38.45	40.60	-28.3	
829.00	18.35	H	0.6	0.0	17.73	19.88	38.45	40.60	-20.7	
Mid Ch										
836.50	10.76	V	0.6	0.0	10.14	12.29	38.45	40.60	-28.3	
836.50	19.03	H	0.6	0.0	18.41	20.56	38.45	40.60	-20.0	
High Ch										
844.00	10.56	V	0.6	0.0	9.94	12.09	38.45	40.60	-28.5	
844.00	18.95	H	0.6	0.0	18.33	20.48	38.45	40.60	-20.1	
Rev. 06.18.14										

UAT QPSK EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 QPSK 1.4MHz BW								
Test Equipment:										
Receiving: Sunoi T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERIP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
824.70	12.77	V	0.6	0.0	12.15	14.30	38.45	40.60	-26.3	
824.70	17.66	H	0.6	0.0	17.04	19.19	38.45	40.60	-21.4	
Mid Ch										
836.50	13.10	V	0.6	0.0	12.48	14.63	38.45	40.60	-26.0	
836.50	18.34	H	0.6	0.0	17.72	19.87	38.45	40.60	-20.7	
High Ch										
848.30	11.61	V	0.6	0.0	10.99	13.14	38.45	40.60	-27.5	
848.30	18.22	H	0.6	0.0	17.60	19.75	38.45	40.60	-20.8	
Rev. 06.18.14										

UAT 16QAM EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 16QAM 1.4MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
824.70	11.71	V	0.6	0.0	11.09	13.24	38.45	40.60	-27.4	
824.70	16.64	H	0.6	0.0	16.02	18.17	38.45	40.60	-22.4	
Mid Ch										
836.50	12.07	V	0.6	0.0	11.45	13.60	38.45	40.60	-27.0	
836.50	17.31	H	0.6	0.0	16.69	18.84	38.45	40.60	-21.8	
High Ch										
848.30	10.58	V	0.6	0.0	9.96	12.11	38.45	40.60	-28.5	
848.30	16.92	H	0.6	0.0	16.30	18.45	38.45	40.60	-22.1	
Rev. 06.18.14										

UAT QPSK EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D											
Project #:		14U17676									
Date:		06/24/14									
Test Engineer:		M. Hua									
Configuration:		EUT Only									
Mode:		LTE Band 5 QPSK 3MHz BW									
Test Equipment:											
Receiving: Sunol T407, and Chamber D Cable											
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable											
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes	
Low Ch											
825.50	12.80	V	0.6	0.0	12.18	14.33	38.45	40.60	-26.3		
825.50	17.53	H	0.6	0.0	16.91	19.06	38.45	40.60	-21.5		
Mid Ch											
836.50	13.08	V	0.6	0.0	12.46	14.61	38.45	40.60	-26.0		
836.50	18.27	H	0.6	0.0	17.65	19.80	38.45	40.60	-20.8		
High Ch											
847.50	11.63	V	0.6	0.0	11.01	13.16	38.45	40.60	-27.4		
847.50	18.14	H	0.6	0.0	17.52	19.67	38.45	40.60	-20.9		
Rev. 06.18.14											

UAT 16QAM EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 16QAM 3MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
825.50	11.76	V	0.6	0.0	11.14	13.29	38.45	40.60	-27.3	
825.50	16.48	H	0.6	0.0	15.86	18.01	38.45	40.60	-22.6	
Mid Ch										
836.50	12.04	V	0.6	0.0	11.42	13.57	38.45	40.60	-27.0	
836.50	17.12	H	0.6	0.0	16.50	18.65	38.45	40.60	-21.9	
High Ch										
847.50	10.64	V	0.6	0.0	10.02	12.17	38.45	40.60	-28.4	
847.50	17.18	H	0.6	0.0	16.56	18.71	38.45	40.60	-21.9	
Rev. 06.18.14										

UAT QPSK EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D											
Project #:		14U17676									
Date:		06/24/14									
Test Engineer:		M. Hua									
Configuration:		EUT Only									
Mode:		LTE Band 5 QPSK 5MHz BW									
Test Equipment:											
Receiving: Sunol T407, and Chamber D Cable											
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable											
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes	
Low Ch											
826.50	12.77	V	0.6	0.0	12.15	14.30	38.45	40.60	-26.3		
826.50	17.39	H	0.6	0.0	16.77	18.92	38.45	40.60	-21.7		
Mid Ch											
836.50	12.85	V	0.6	0.0	12.23	14.38	38.45	40.60	-26.2		
836.50	18.01	H	0.6	0.0	17.39	19.54	38.45	40.60	-21.1		
High Ch											
846.50	11.78	V	0.6	0.0	11.16	13.31	38.45	40.60	-27.3		
846.50	17.94	H	0.6	0.0	17.32	19.47	38.45	40.60	-21.1		
Rev. 06.18.14											

UAT 16QAM EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 16QAM 5MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
826.50	11.59	V	0.6	0.0	10.97	13.12	38.45	40.60	-27.5	
826.50	16.48	H	0.6	0.0	15.86	18.01	38.45	40.60	-22.6	
Mid Ch										
836.50	11.79	V	0.6	0.0	11.17	13.32	38.45	40.60	-27.3	
836.50	16.98	H	0.6	0.0	16.36	18.51	38.45	40.60	-22.1	
High Ch										
846.50	10.55	V	0.6	0.0	9.93	12.08	38.45	40.60	-28.5	
846.50	16.85	H	0.6	0.0	16.23	18.38	38.45	40.60	-22.2	
Rev. 06.18.14										

UAT QPSK EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 QPSK 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
829.00	12.63	V	0.6	0.0	12.01	14.16	38.45	40.60	-26.4	
829.00	17.26	H	0.6	0.0	16.64	18.79	38.45	40.60	-21.8	
Mid Ch										
836.50	12.88	V	0.6	0.0	12.26	14.41	38.45	40.60	-26.2	
836.50	17.85	H	0.6	0.0	17.23	19.38	38.45	40.60	-21.2	
High Ch										
844.00	12.27	V	0.6	0.0	11.65	13.80	38.45	40.60	-26.8	
844.00	17.81	H	0.6	0.0	17.19	19.34	38.45	40.60	-21.3	
Rev. 06.18.14										

UAT 16QAM EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 5 16QAM 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
829.00	11.40	V	0.6	0.0	10.78	12.93	38.45	40.60	-27.7	
829.00	15.93	H	0.6	0.0	15.31	17.46	38.45	40.60	-23.1	
Mid Ch										
836.50	11.63	V	0.6	0.0	11.01	13.16	38.45	40.60	-27.4	
836.50	16.89	H	0.6	0.0	16.27	18.42	38.45	40.60	-22.2	
High Ch										
844.00	10.99	V	0.6	0.0	10.37	12.52	38.45	40.60	-28.1	
844.00	16.62	H	0.6	0.0	16.00	18.15	38.45	40.60	-22.4	
Rev. 06.18.14										

9.1.4. LTE BAND 13

LAT QPSK EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 13 QPSK 5MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
779.50	12.90	V	0.55	0.0	12.35	14.50	34.77	36.99	-22.5	
779.50	19.81	H	0.55	0.0	19.26	21.41	34.77	36.99	-15.6	
Mid Ch										
782.00	13.68	V	0.55	0.0	13.13	15.28	34.77	36.99	-21.7	
782.00	20.22	H	0.55	0.0	19.67	21.82	34.77	36.99	-15.2	
High Ch										
784.50	13.94	V	0.55	0.0	13.39	15.54	34.77	36.99	-21.5	
784.50	20.30	H	0.55	0.0	19.75	21.90	34.77	36.99	-15.1	
Rev. 06.18.14										

LAT 16QAM EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 13 16QAM5MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
779.50	12.09	V	0.55	0.0	11.54	13.69	34.77	36.99	-23.3	
779.50	18.99	H	0.55	0.0	18.44	20.59	34.77	36.99	-16.4	
Mid Ch										
782.00	12.47	V	0.55	0.0	11.92	14.07	34.77	36.99	-22.9	
782.00	19.08	H	0.55	0.0	18.53	20.68	34.77	36.99	-16.3	
High Ch										
784.50	13.06	V	0.55	0.0	12.51	14.66	34.77	36.99	-22.3	
784.50	19.54	H	0.55	0.0	18.99	21.14	34.77	36.99	-15.9	
Rev. 06.18.14										

LAT QPSK EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 13 QPSK 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
782.00	13.69	V	0.55	0.0	13.14	15.29	34.77	36.99	-21.7	
782.00	20.18	H	0.55	0.0	19.63	21.78	34.77	36.99	-15.2	
Rev. 06.18.14										

LAT 16QAM EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 13 16QAM 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
782.00	12.66	V	0.55	0.0	12.11	14.26	34.77	36.99	-22.7	
782.00	19.45	H	0.55	0.0	18.90	21.05	34.77	36.99	-15.9	
Rev. 06.18.14										

UAT QPSK EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 13 QPSK 5MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
779.50	10.60	V	0.55	0.0	10.05	12.20	34.77	36.99	-24.8	
779.50	15.70	H	0.55	0.0	15.15	17.30	34.77	36.99	-19.7	
Mid Ch										
782.00	10.96	V	0.55	0.0	10.41	12.56	34.77	36.99	-24.4	
782.00	15.69	H	0.55	0.0	15.14	17.29	34.77	36.99	-19.7	
High Ch										
784.50	11.33	V	0.55	0.0	10.78	12.93	34.77	36.99	-24.1	
784.50	15.77	H	0.55	0.0	15.22	17.37	34.77	36.99	-19.6	
Rev. 06.18.14										

UAT 16QAM EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 13 16QAM5MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
779.50	9.53	V	0.55	0.0	8.98	11.13	34.77	36.99	-25.9	
779.50	14.61	H	0.55	0.0	14.06	16.21	34.77	36.99	-20.8	
Mid Ch										
782.00	9.85	V	0.55	0.0	9.30	11.45	34.77	36.99	-25.5	
782.00	14.62	H	0.55	0.0	14.07	16.22	34.77	36.99	-20.8	
High Ch										
784.50	10.30	V	0.55	0.0	9.75	11.90	34.77	36.99	-25.1	
784.50	14.81	H	0.55	0.0	14.26	16.41	34.77	36.99	-20.6	
Rev. 06.18.14										

UAT QPSK EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 13 QPSK 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
782.00	10.88	V	0.55	0.0	10.33	12.48	34.77	36.99	-24.5	
782.00	15.65	H	0.55	0.0	15.10	17.25	34.77	36.99	-19.7	
Rev. 06.18.14										

UAT 16QAM EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 13 16QAM 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
782.00	9.77	V	0.55	0.0	9.22	11.37	34.77	36.99	-25.6	
782.00	14.72	H	0.55	0.0	14.17	16.32	34.77	36.99	-20.7	
Rev. 06.18.14										

9.1.5. LTE BAND 17

LAT QPSK EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D											
Project #:		14U17676									
Date:		06/24/14									
Test Engineer:		M. Hua									
Configuration:		EUT Only									
Mode:		LTE Band 17 QPSK 5MHz BW									
Test Equipment:											
Receiving: Sunol T407, and Chamber D Cable											
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable											
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes	
Low Ch											
706.50	8.88	V	0.55	0.0	8.33	10.48	34.77	36.99	-26.5		
706.50	16.57	H	0.55	0.0	16.02	18.17	34.77	36.99	-18.8		
Mid Ch											
710.00	9.04	V	0.55	0.0	8.49	10.64	34.77	36.99	-26.4		
710.00	16.63	H	0.55	0.0	16.08	18.23	34.77	36.99	-18.8		
High Ch											
713.50	9.28	V	0.55	0.0	8.73	10.88	34.77	36.99	-26.1		
713.50	17.50	H	0.55	0.0	16.95	19.10	34.77	36.99	-17.9		
Rev. 06.18.14											

LAT 16QAM EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 17 16QAM 5MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
706.50	8.06	V	0.55	0.0	7.51	9.66	34.77	36.99	-27.3	
706.50	15.77	H	0.55	0.0	15.22	17.37	34.77	36.99	-19.6	
Mid Ch										
710.00	8.20	V	0.55	0.0	7.65	9.80	34.77	36.99	-27.2	
710.00	15.84	H	0.55	0.0	15.29	17.44	34.77	36.99	-19.6	
High Ch										
713.50	8.41	V	0.55	0.0	7.86	10.01	34.77	36.99	-27.0	
713.50	16.67	H	0.55	0.0	16.12	18.27	34.77	36.99	-18.7	
Rev. 06.18.14										

LAT QPSK EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 17 QPSK 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
709.00	9.32	V	0.55	0.0	8.77	10.92	34.77	36.99	-26.1	
709.00	16.77	H	0.55	0.0	16.22	18.37	34.77	36.99	-18.6	
Mid Ch										
710.00	9.46	V	0.55	0.0	8.91	11.06	34.77	36.99	-25.9	
710.00	17.11	H	0.55	0.0	16.56	18.71	34.77	36.99	-18.3	
High Ch										
711.00	9.72	V	0.55	0.0	9.17	11.32	34.77	36.99	-25.7	
711.00	17.35	H	0.55	0.0	16.80	18.95	34.77	36.99	-18.0	
Rev. 06.18.14										

LAT 16QAM EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 17 16QAM 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
709.00	8.49	V	0.55	0.0	7.94	10.09	34.77	36.99	-26.9	
709.00	15.90	H	0.55	0.0	15.35	17.50	34.77	36.99	-19.5	
Mid Ch										
710.00	8.57	V	0.55	0.0	8.02	10.17	34.77	36.99	-26.8	
710.00	16.22	H	0.55	0.0	15.67	17.82	34.77	36.99	-19.2	
High Ch										
711.00	8.83	V	0.55	0.0	8.28	10.43	34.77	36.99	-26.6	
711.00	16.53	H	0.55	0.0	15.98	18.13	34.77	36.99	-18.9	
Rev. 06.18.14										

UAT QPSK EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 17 QPSK 5MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
706.50	8.96	V	0.55	0.0	8.41	10.56	34.77	36.99	-26.4	
706.50	16.68	H	0.55	0.0	16.13	18.28	34.77	36.99	-18.7	
Mid Ch										
710.00	9.05	V	0.55	0.0	8.50	10.65	34.77	36.99	-26.3	
710.00	16.76	H	0.55	0.0	16.21	18.36	34.77	36.99	-18.6	
High Ch										
713.50	9.31	V	0.55	0.0	8.76	10.91	34.77	36.99	-26.1	
713.50	17.04	H	0.55	0.0	16.49	18.64	34.77	36.99	-18.4	
Rev. 06.18.14										

UAT 16QAM EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 17 16QAM 5MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
706.50	9.21	V	0.55	0.0	8.66	10.81	34.77	36.99	-26.2	
706.50	15.97	H	0.55	0.0	15.42	17.57	34.77	36.99	-19.4	
Mid Ch										
710.00	9.32	V	0.55	0.0	8.77	10.92	34.77	36.99	-26.1	
710.00	15.94	H	0.55	0.0	15.39	17.54	34.77	36.99	-19.5	
High Ch										
713.50	9.59	V	0.55	0.0	9.04	11.19	34.77	36.99	-25.8	
713.50	16.29	H	0.55	0.0	15.74	17.89	34.77	36.99	-19.1	
Rev. 06.18.14										

UAT QPSK EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 17 QPSK 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
709.00	9.02	V	0.55	0.0	8.47	10.62	34.77	36.99	-26.4	
709.00	16.89	H	0.55	0.0	16.34	18.49	34.77	36.99	-18.5	
Mid Ch										
710.00	9.04	V	0.55	0.0	8.49	10.64	34.77	36.99	-26.4	
710.00	16.65	H	0.55	0.0	16.10	18.25	34.77	36.99	-18.7	
High Ch										
711.00	9.40	V	0.55	0.0	8.85	11.00	34.77	36.99	-26.0	
711.00	17.08	H	0.55	0.0	16.53	18.68	34.77	36.99	-18.3	
Rev. 06.18.14										

UAT 16QAM EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D										
Project #:		14U17676								
Date:		06/24/14								
Test Engineer:		M. Hua								
Configuration:		EUT Only								
Mode:		LTE Band 17 16QAM 10MHz BW								
Test Equipment:										
Receiving: Sunol T407, and Chamber D Cable										
Substitution: Dipole S/N: 00022117, and 8ft SMA Cable										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
Low Ch										
709.00	7.98	V	0.55	0.0	7.43	9.58	34.77	36.99	-27.4	
709.00	15.80	H	0.55	0.0	15.25	17.40	34.77	36.99	-19.6	
Mid Ch										
710.00	8.89	V	0.55	0.0	8.34	10.49	34.77	36.99	-26.5	
710.00	15.49	H	0.55	0.0	14.94	17.09	34.77	36.99	-19.9	
High Ch										
711.00	8.35	V	0.55	0.0	7.80	9.95	34.77	36.99	-27.0	
711.00	15.99	H	0.55	0.0	15.44	17.59	34.77	36.99	-19.4	
Rev. 06.18.14										

9.1.6. LTE BAND 25

LAT QPSK EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 25 QPSK 1.4MHz BW						
<u>Test Equipment:</u>								
Receiving: Horn T344, and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.851	18.0	V	0.98	7.88	24.89	33.0	-8.1	
1.851	19.8	H	0.98	7.88	26.71	33.0	-6.3	
Mid Ch								
1.883	17.8	V	0.98	7.86	24.72	33.0	-8.3	
1.883	19.1	H	0.98	7.86	26.01	33.0	-7.0	
High Ch								
1.914	19.2	V	0.98	7.84	26.04	33.0	-7.0	
1.914	20.0	H	0.98	7.84	26.85	33.0	-6.2	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 25 16QAM 1.4MHz BW						
Test Equipment:								
Receiving: Horn T344, and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.851	17.0	V	0.98	7.88	23.88	33.0	-9.1	
1.851	18.9	H	0.98	7.88	25.77	33.0	-7.2	
Mid Ch								
1.883	16.8	V	0.98	7.86	23.69	33.0	-9.3	
1.883	18.1	H	0.98	7.86	25.00	33.0	-8.0	
High Ch								
1.914	18.2	V	0.98	7.84	25.10	33.0	-7.9	
1.914	19.0	H	0.98	7.84	25.90	33.0	-7.1	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 25 QPSK 3MHz BW						
Test Equipment:								
Receiving: Horn T344, and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.852	18.0	V	0.98	7.88	24.86	33.0	-8.1	
1.852	19.9	H	0.98	7.88	26.83	33.0	-6.2	
Mid Ch								
1.883	17.8	V	0.98	7.86	24.63	33.0	-8.4	
1.883	19.2	H	0.98	7.86	26.11	33.0	-6.9	
High Ch								
1.914	18.5	V	0.98	7.84	25.32	33.0	-7.7	
1.914	19.9	H	0.98	7.84	26.72	33.0	-6.3	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 25 16QAM 3MHz BW						
Test Equipment:								
Receiving: Horn T344, and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.852	17.1	V	0.98	7.88	23.96	33.0	-9.0	
1.852	19.1	H	0.98	7.88	26.00	33.0	-7.0	
Mid Ch								
1.883	16.8	V	0.98	7.86	23.71	33.0	-9.3	
1.883	18.3	H	0.98	7.86	25.21	33.0	-7.8	
High Ch								
1.914	17.6	V	0.98	7.84	24.49	33.0	-8.5	
1.914	19.0	H	0.98	7.84	25.88	33.0	-7.1	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 25 QPSK 5MHz BW						
Test Equipment:								
Receiving: Horn T344, and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.853	18.0	V	0.98	7.88	24.86	33.0	-8.1	
1.853	19.9	H	0.98	7.88	26.81	33.0	-6.2	
Mid Ch								
1.883	17.7	V	0.98	7.86	24.60	33.0	-8.4	
1.883	19.3	H	0.98	7.86	26.13	33.0	-6.9	
High Ch								
1.913	19.0	V	0.98	7.84	25.84	33.0	-7.2	
1.913	19.7	H	0.98	7.84	26.55	33.0	-6.5	
Rev. 06.18.14								

LAT 16QAM EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 25 16QAM 5MHz BW						
Test Equipment:								
Receiving: Horn T344, and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.853	17.2	V	0.98	7.88	24.11	33.0	-8.9	
1.853	19.2	H	0.98	7.88	26.13	33.0	-6.9	
Mid Ch								
1.883	17.0	V	0.98	7.86	23.83	33.0	-9.2	
1.883	18.5	H	0.98	7.86	25.38	33.0	-7.6	
High Ch								
1.913	18.3	V	0.98	7.84	25.16	33.0	-7.8	
1.913	19.0	H	0.98	7.84	25.86	33.0	-7.1	
Rev. 06.18.14								

LAT QPSK EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber D								
Project #:		14U17676						
Date:		06/23/14						
Test Engineer:		R.Z						
Configuration:		EUT only						
Mode:		LTE Band 25 QPSK 10MHz BW						
Test Equipment:								
Receiving: Horn T344, and Chamber D SMA Cables								
Substitution: Horn T60 Substitution, and 8ft SMA Cable								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Low Ch								
1.855	17.5	V	0.98	7.88	24.37	33.0	-8.6	
1.855	19.9	H	0.98	7.88	26.80	33.0	-6.2	
Mid Ch								
1.883	17.1	V	0.98	7.86	23.93	33.0	-9.1	
1.883	19.1	H	0.98	7.86	25.94	33.0	-7.1	
High Ch								
1.910	19.1	V	0.98	7.84	25.97	33.0	-7.0	
1.910	19.7	H	0.98	7.84	26.58	33.0	-6.4	
Rev. 06.18.14								