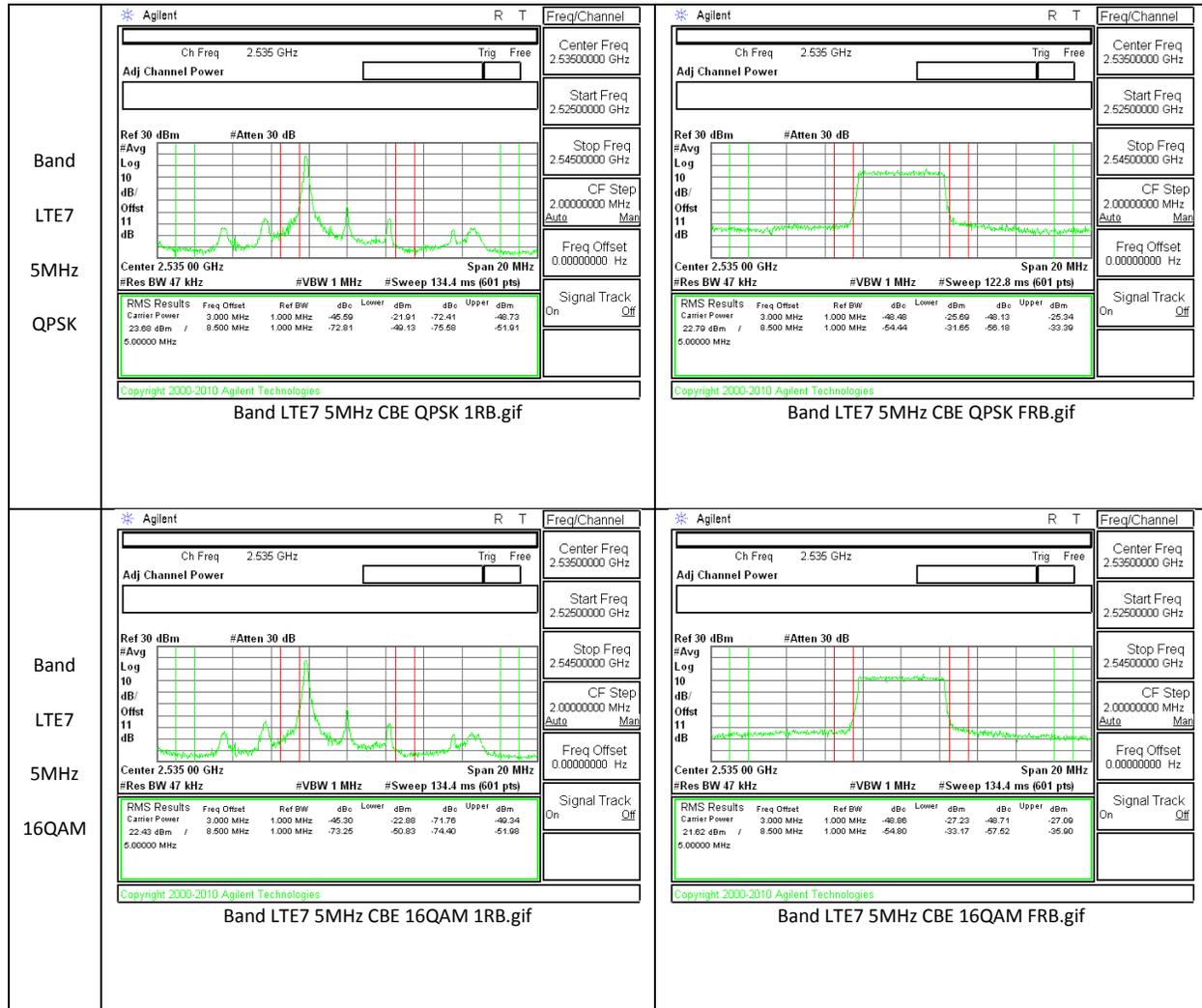
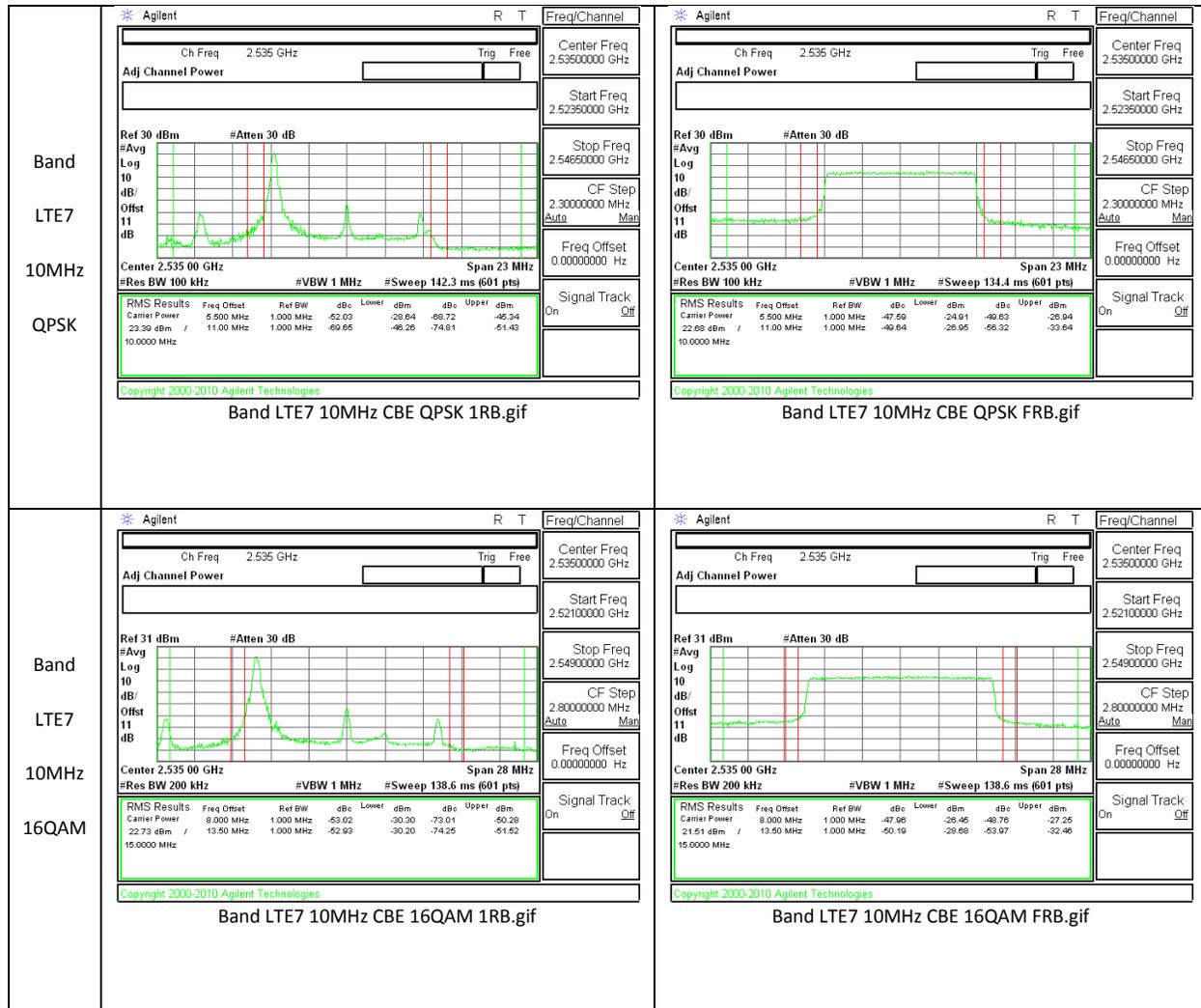
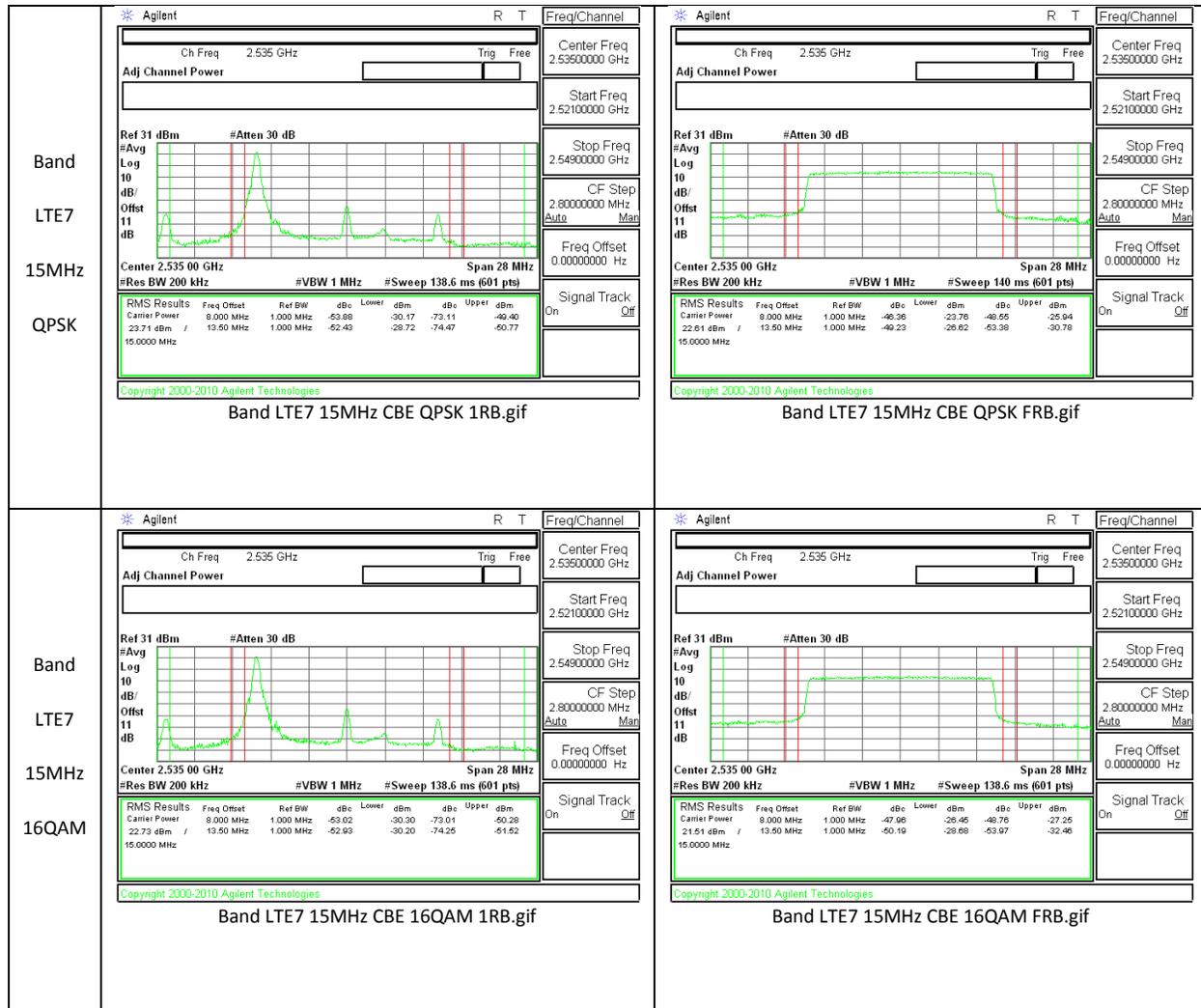
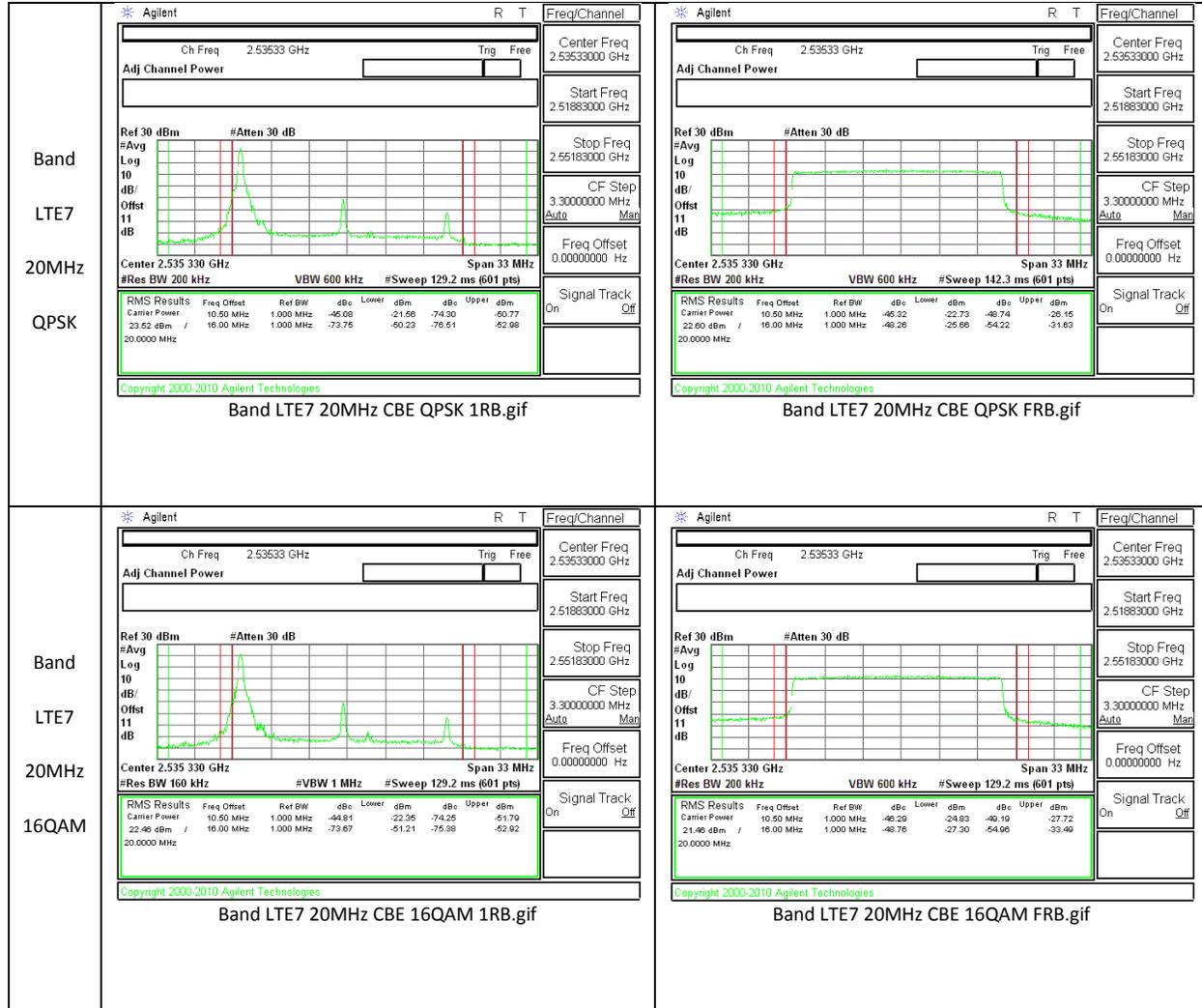


10.2.2. EMISSION MASK PLOTS









	QPSK low band edge.gif	QPSK high band edge.gif
Band		
LTE13		
5MHz		
16QAM		
	16QAM low band edge.gif	16QAM high band edge.gif

10.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Part 27: (m)(4) For mobile station, the attenuation factor shall be not less than $43+10\log(P)$ dB at the channel edge and $(55+10\log(P)$ dB) at 5.5MHz from the channel edges.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

RESULTS

10.3.1. OUT OF BAND EMISSIONS RESULT

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
GSM850	GPRS	824.2	-16.76	-13	-3.76
		836.6	-16.54	-13	-3.54
		848.8	-20.56	-13	-7.56
	EGPRS	824.2	-17.9	-13	-4.9
		836.6	-16.82	-13	-3.82
		848.8	-16.23	-13	-3.23
GSM1900	GPRS	1850.2	-20.05	-13	-7.05
		1880	-18.93	-13	-5.93
		1909.8	-20.88	-13	-7.88
	EGPRS	1850.2	-19.17	-13	-6.17
		1880	-20.4	-13	-7.4
		1909.8	-19.5	-13	-6.5
Band 5	REL99	826.4	-19	-13	-6
		836.6	-20.34	-13	-7.34
		846.6	-20.44	-13	-7.44
	HSDPA	826.4	-19.04	-13	-6.04
		836.6	-20.01	-13	-7.01
		846.6	-18.75	-13	-5.75
Band 2	REL99	1852.4	-26.21	-13	-13.21
		1880	-26.94	-13	-13.94
		1907.6	-27.13	-13	-14.13
	HSDPA	1852.4	-27.32	-13	-14.32
		1880	-26.77	-13	-13.77
		1907.6	-25.44	-13	-12.44
Band 4	REL99	1712.4	-29.38	-13	-16.38
		1732.6	-29.74	-13	-16.74
		1752.6	-29.92	-13	-16.92
	HSDPA	1712.4	-19.53	-13	-6.53
		1732.6	-19.29	-13	-6.29
		1752.6	-18.77	-13	-5.77

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE17	10	QPSK	709	-23.01	-13	-10.01
			710	-23.43	-13	-10.43
			711	-22.66	-13	-9.66
		16QAM	709	-22.69	-13	-9.69
			710	-22.88	-13	-9.88
			711	-22.33	-13	-9.33

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE17	5	QPSK	706.5	-22.25	-13	-9.25
			710	-22.92	-13	-9.92
			713.5	-21.76	-13	-8.76
		16QAM	706.5	-23.07	-13	-10.07
			710	-22.75	-13	-9.75
			713.5	-22.55	-13	-9.55

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE13	10	QPSK	782	-22.7	-13	-9.7
		16QAM	782	-22.87	-13	-9.87

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE13	5	QPSK	779.5	-22.76	-13	-9.76
			782	-23.86	-13	-10.86
			784.5	-22.76	-13	-9.76
		16QAM	779.5	-24.96	-13	-11.96
			782	-23.56	-13	-10.56
			784.5	-23.35	-13	-10.35

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE7	20	QPSK	2510	-29.16	-25	-4.16
			2535	-28.74	-25	-3.74
			2560	-29.02	-25	-4.02
		16QAM	2510	-29	-25	-4
			2535	-29.1	-25	-4.1
			2560	-28.92	-25	-3.92

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE7	15	QPSK	2507.5	-30.68	-25	-5.68
			2535	-27.58	-25	-2.58
			2562.5	-28.97	-25	-3.97
		16QAM	2507.5	-30.24	-25	-5.24
			2535	-30.99	-25	-5.99
			2562.5	-28.49	-25	-3.49

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE7	10	QPSK	2505	-28.09	-25	-3.09
			2535	-27.01	-25	-2.01
			2565	-26.98	-25	-1.98
		16QAM	2505	-29.35	-25	-4.35
			2535	-27.06	-25	-2.06
			2565	-27.11	-25	-2.11

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE7	5	QPSK	2502.5	-36.07	-25	-11.07
			2535	-36.47	-25	-11.47
			2567.5	-36.84	-25	-11.84
		16QAM	2502.5	-35.91	-25	-10.91
			2535	-36.31	-25	-11.31
			2567.5	-34.75	-25	-9.75

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	10	QPSK	829	-30.05	-13	-17.05
			836.5	-28.92	-13	-15.92
			844	-30.06	-13	-17.06
		16QAM	829	-29.02	-13	-16.02
			836.5	-29.35	-13	-16.35
			844	-29.67	-13	-16.67

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	5	QPSK	826.5	-28.25	-13	-15.25
			836.5	-30.37	-13	-17.37
			846.5	-30.59	-13	-17.59
		16QAM	826.5	-29.75	-13	-16.75
			836.5	-29.28	-13	-16.28
			846.5	-29.05	-13	-16.05

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	3	QPSK	825.5	-28.42	-13	-15.42
			836.5	-28.78	-13	-15.78
			847.5	-31.6	-13	-18.6
		16QAM	825.5	-29.96	-13	-16.96
			836.5	-30.99	-13	-17.99
			847.5	-30.13	-13	-17.13

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	1.4	QPSK	824.7	-30.93	-13	-17.93
			836.5	-31.15	-13	-18.15
			848.3	-30.48	-13	-17.48
		16QAM	824.7	-29.87	-13	-16.87
			836.5	-30.27	-13	-17.27
			848.3	-30.07	-13	-17.07

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	20	QPSK	1720	-17.62	-13	-4.62
			1732.5	-17.45	-13	-4.45
			1745	-17.17	-13	-4.17
		16QAM	1720	-16.94	-13	-3.94
			1732.5	-18.12	-13	-5.12
			1745	-16.83	-13	-3.83

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	15	QPSK	1717.5	-17.47	-13	-4.47
			1732.5	-17.37	-13	-4.37
			1747.5	-17.94	-13	-4.94
		16QAM	1717.5	-18.09	-13	-5.09
			1732.5	-17.02	-13	-4.02
			1747.5	-17.66	-13	-4.66

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	10	QPSK	1715	-27.66	-13	-14.66
			1732.5	-29.13	-13	-16.13
			1750	-28.91	-13	-15.91
		16QAM	1715	-28.5	-13	-15.5
			1732.5	-28.02	-13	-15.02
			1750	-28.11	-13	-15.11

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	5	QPSK	1712.5	-27.82	-13	-14.82
			1732.5	-28.5	-13	-15.5
			1752.5	-27.16	-13	-14.16
		16QAM	1712.5	-27.83	-13	-14.83
			1732.5	-28.6	-13	-15.6
			1752.5	-28.08	-13	-15.08

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	3	QPSK	1711.5	-26.67	-13	-13.67
			1732.5	-28.44	-13	-15.44
			1753.5	-28.18	-13	-15.18
		16QAM	1711.5	-26.97	-13	-13.97
			1732.5	-27.08	-13	-14.08
			1753.5	-28.2	-13	-15.2

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	1.4	QPSK	1710.7	-28.78	-13	-15.78
			1732.5	-26.83	-13	-13.83
			1754.3	-28.2	-13	-15.2
		16QAM	1710.7	-27.95	-13	-14.95
			1732.5	-28.05	-13	-15.05
			1754.3	-27.11	-13	-14.11

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	20	QPSK	1860	-26.91	-13	-13.91
			1880	-27.21	-13	-14.21
			1900	-26.78	-13	-13.78
		16QAM	1860	-27.69	-13	-14.69
			1880	-26.43	-13	-13.43
			1900	-27.74	-13	-14.74

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	15	QPSK	1857.5	-27.61	-13	-14.61
			1880	-27.38	-13	-14.38
			1902.5	-27.14	-13	-14.14
		16QAM	1857.5	-27.32	-13	-14.32
			1880	-27.16	-13	-14.16
			1902.5	-30.1	-13	-17.1

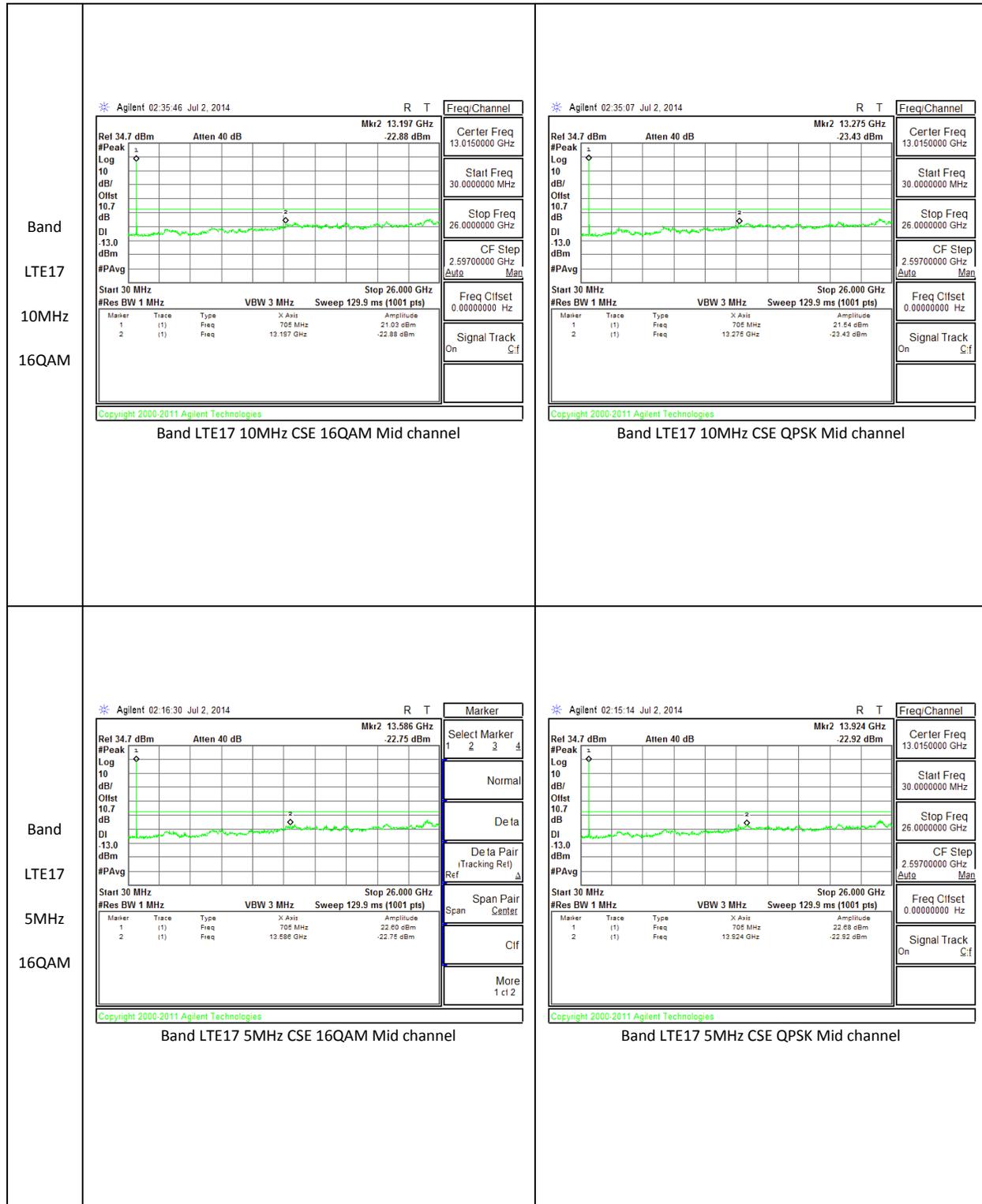
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	10	QPSK	1855	-26.87	-13	-13.87
			1880	-27.23	-13	-14.23
			1905	-25.04	-13	-12.04
		16QAM	1855	-26.62	-13	-13.62
			1880	-26.89	-13	-13.89
			1905	-27.25	-13	-14.25

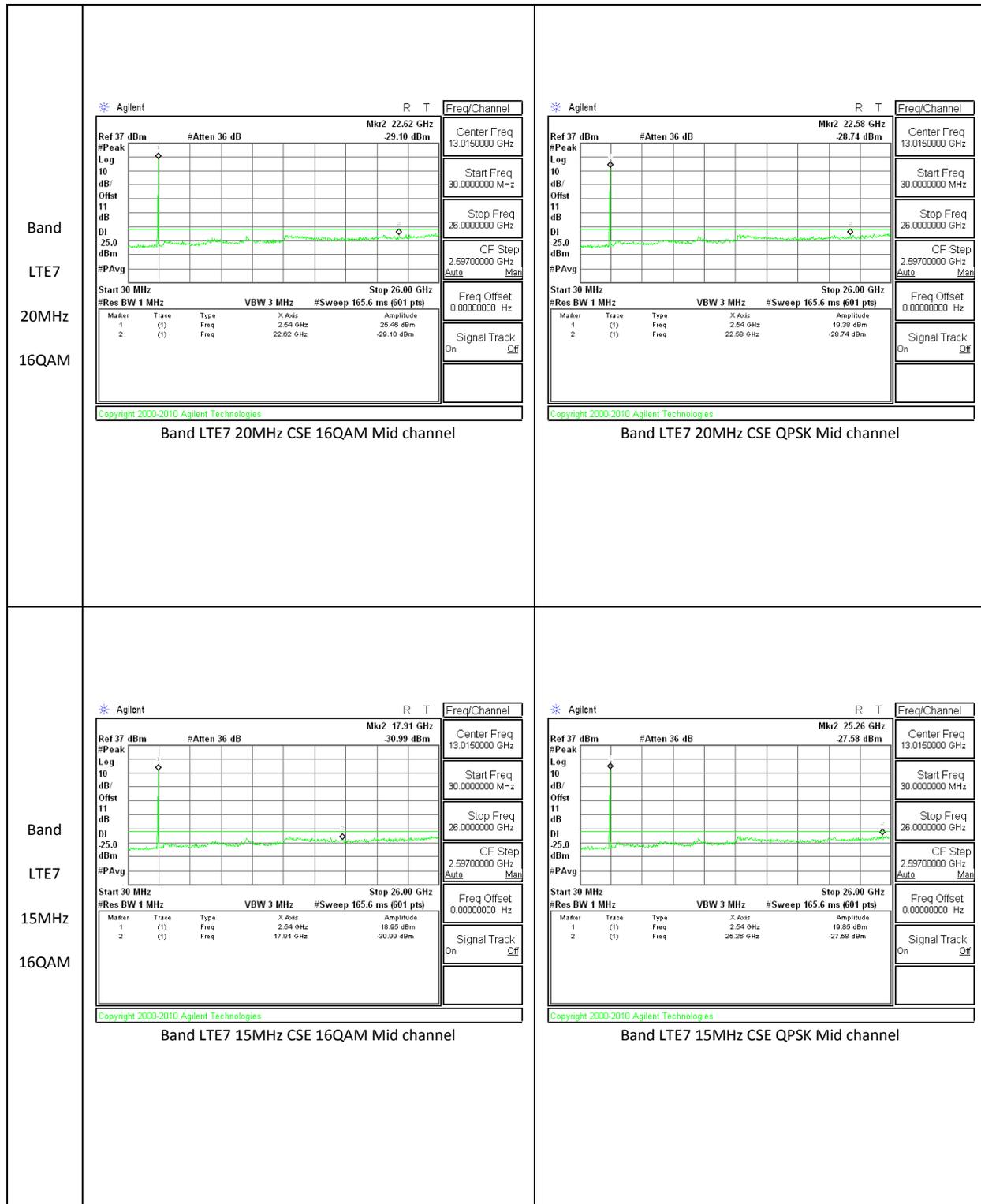
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	5	QPSK	1852.5	-26.39	-13	-13.39
			1880	-27.75	-13	-14.75
			1907.5	-29.6	-13	-16.6
		16QAM	1852.5	-27.12	-13	-14.12
			1880	-26.62	-13	-13.62
			1907.5	-26.39	-13	-13.39

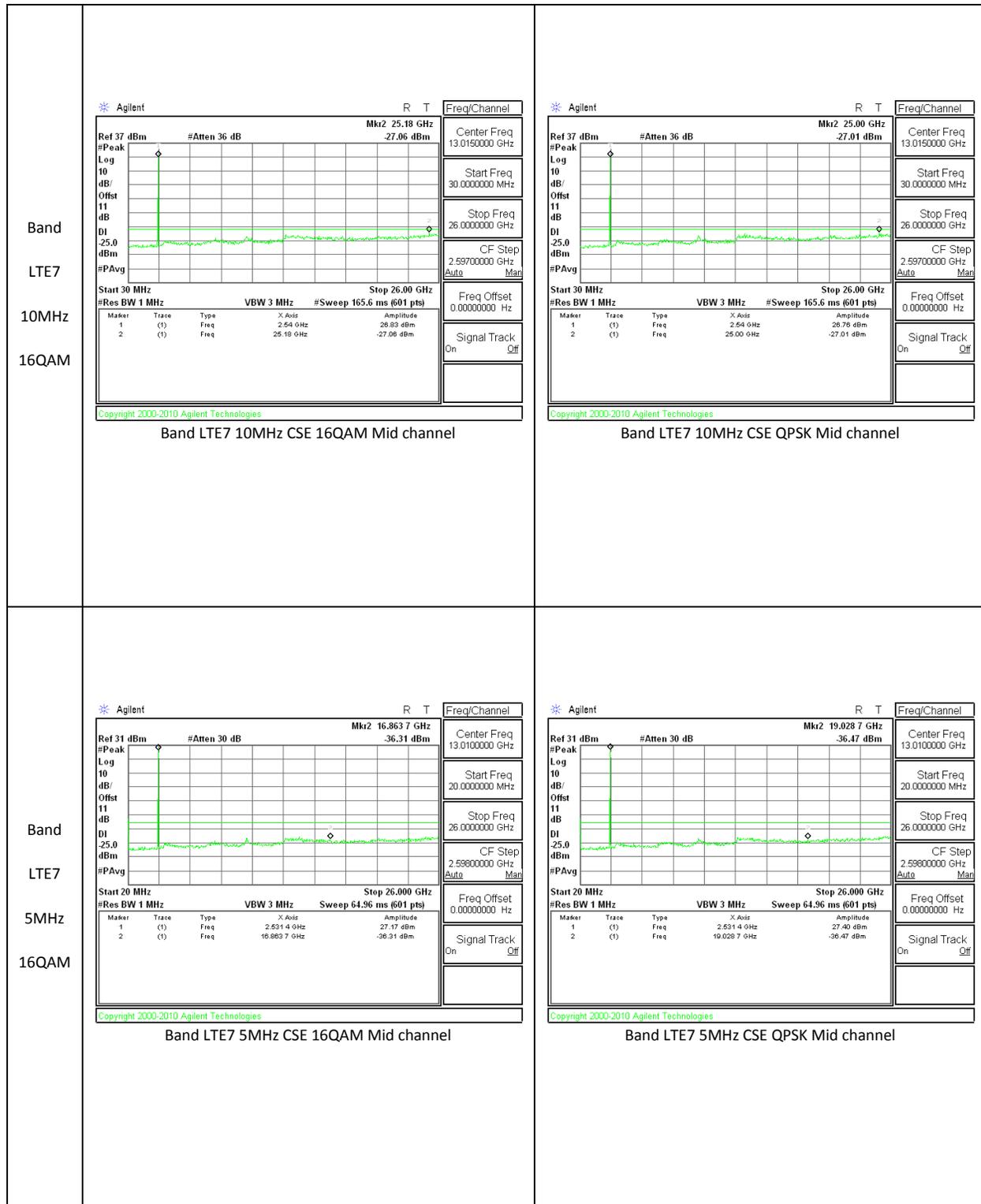
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	3	QPSK	1851.5	-30.54	-13	-17.54
			1880	-30.61	-13	-17.61
			1908.5	-30.16	-13	-17.16
		16QAM	1851.5	-30.97	-13	-17.97
			1880	-29.44	-13	-16.44
			1908.5	-30.41	-13	-17.41

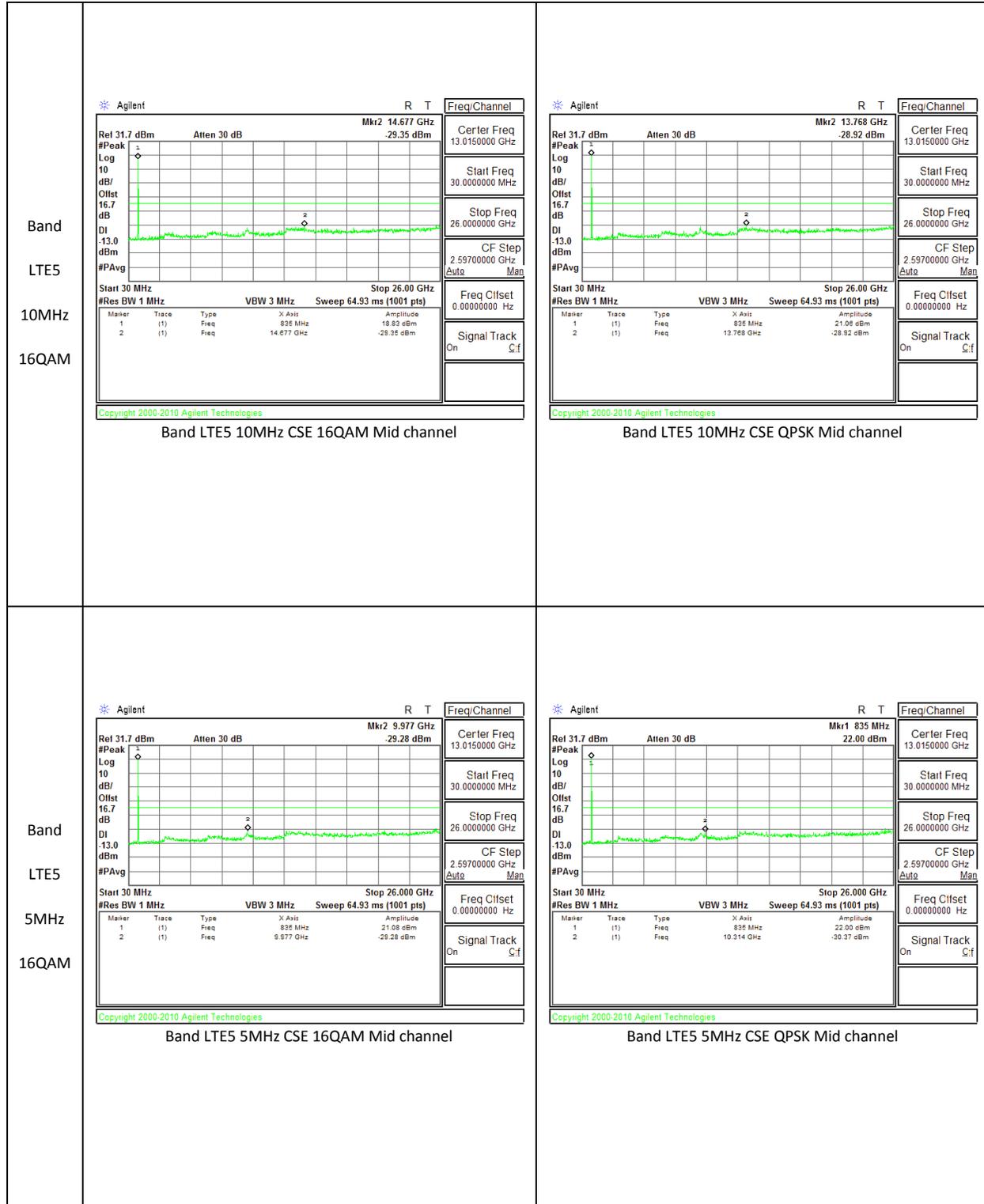
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	1.4	QPSK	1850.7	-31.96	-13	-18.96
			1880	-30.11	-13	-17.11
			1909.3	-29.94	-13	-16.94
		16QAM	1850.7	-28.47	-13	-15.47
			1880	-29.47	-13	-16.47
			1909.3	-29.36	-13	-16.36

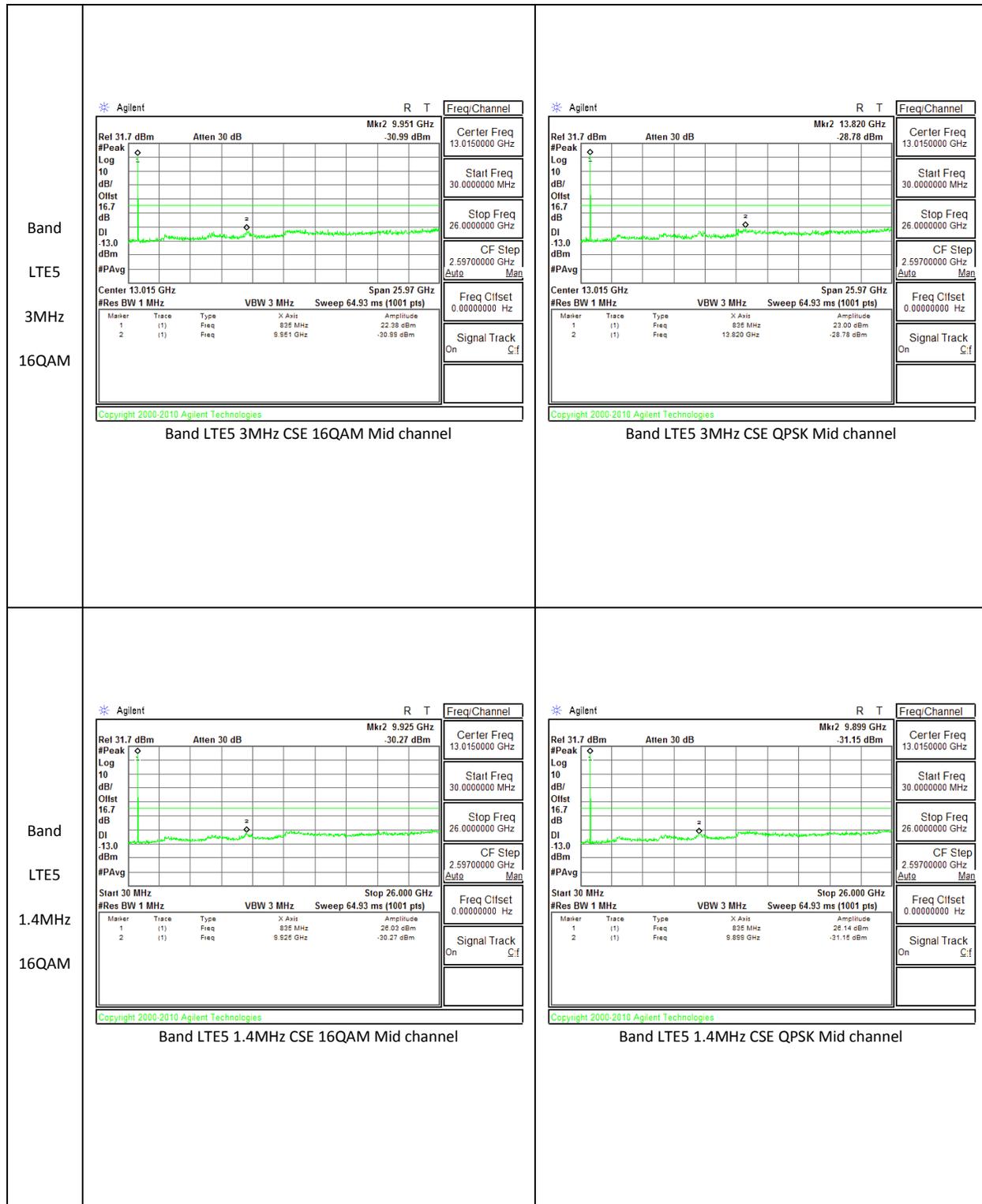
10.3.2. OUT OF BAND EMISSIONS PLOTS

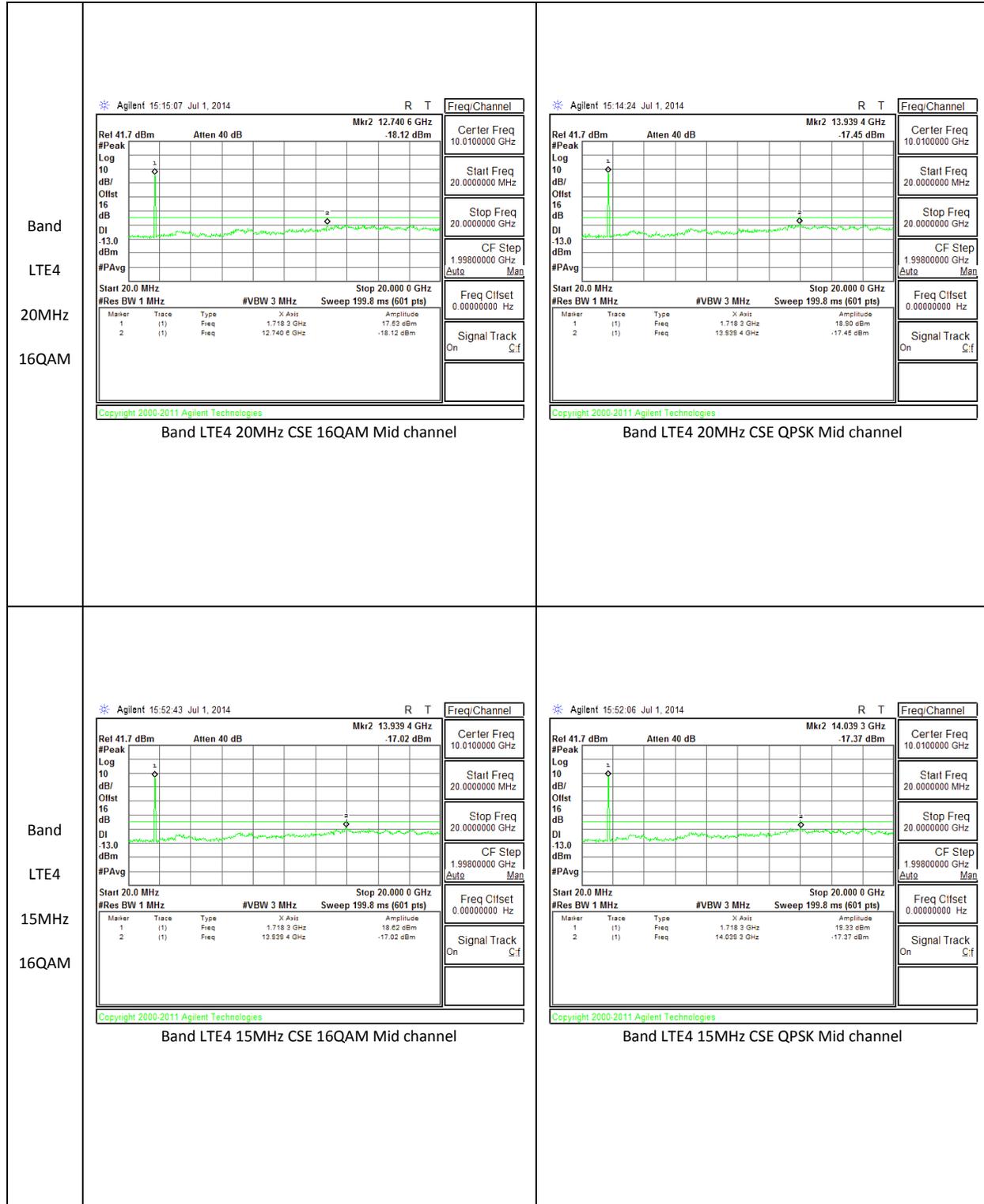


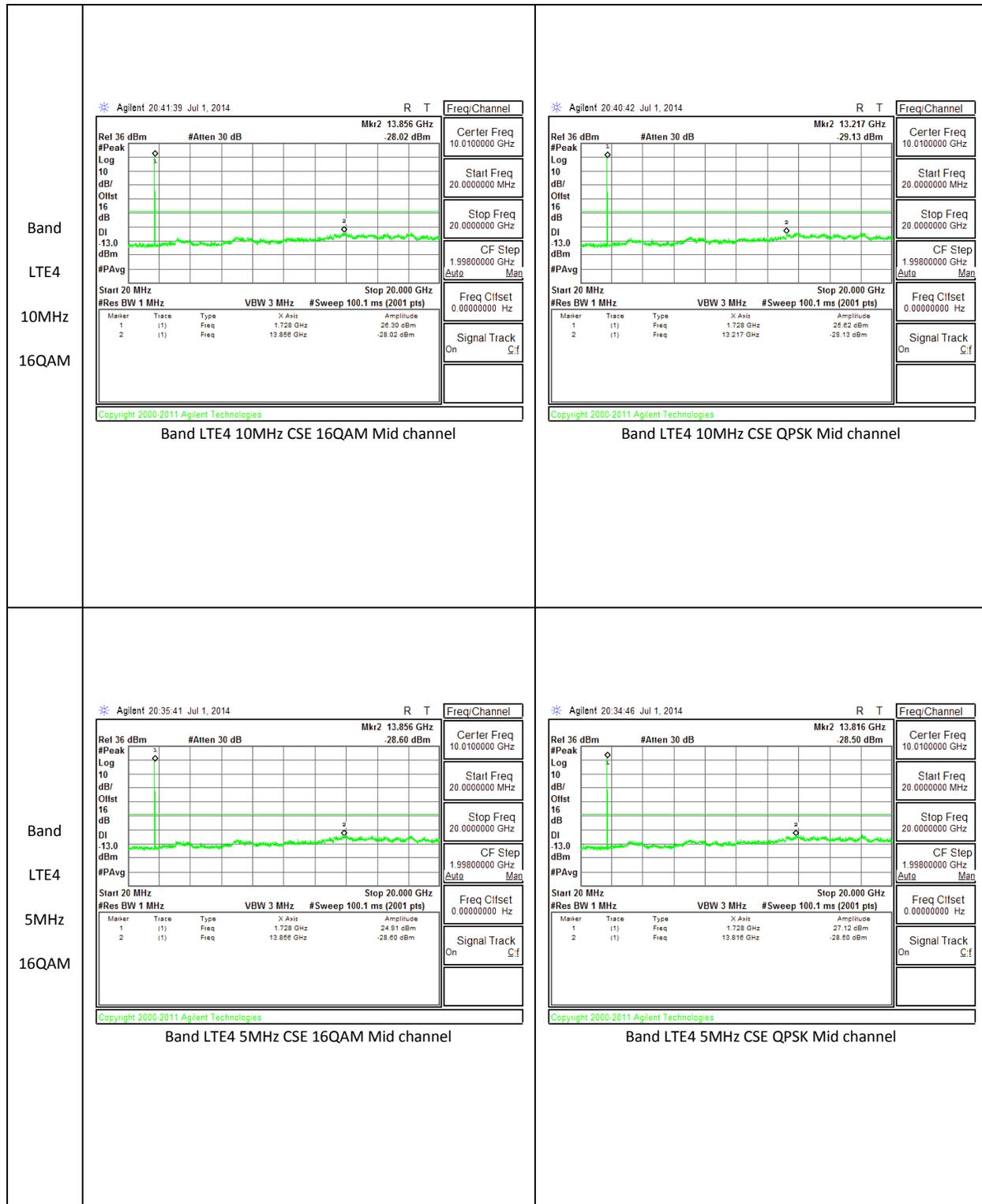


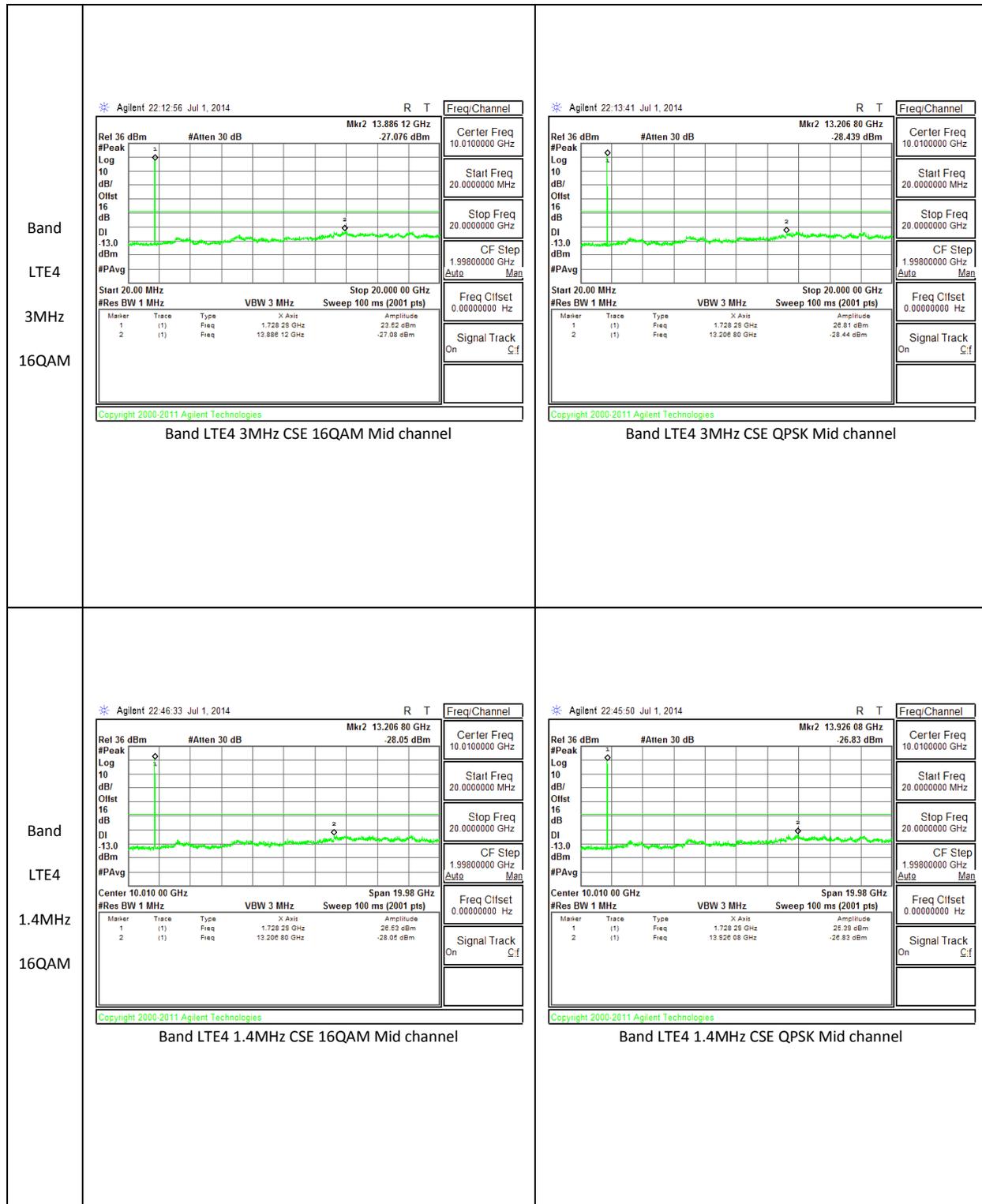


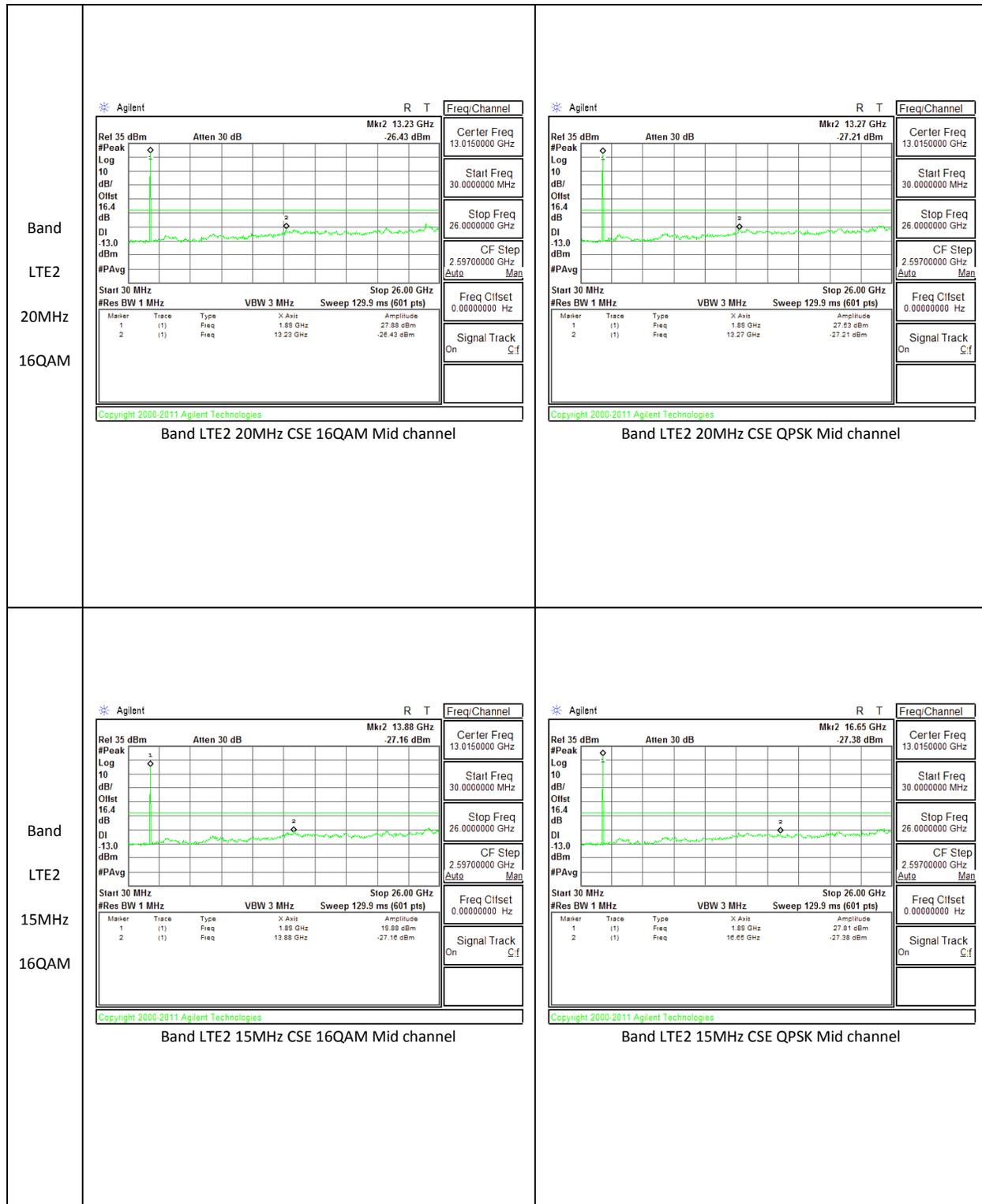


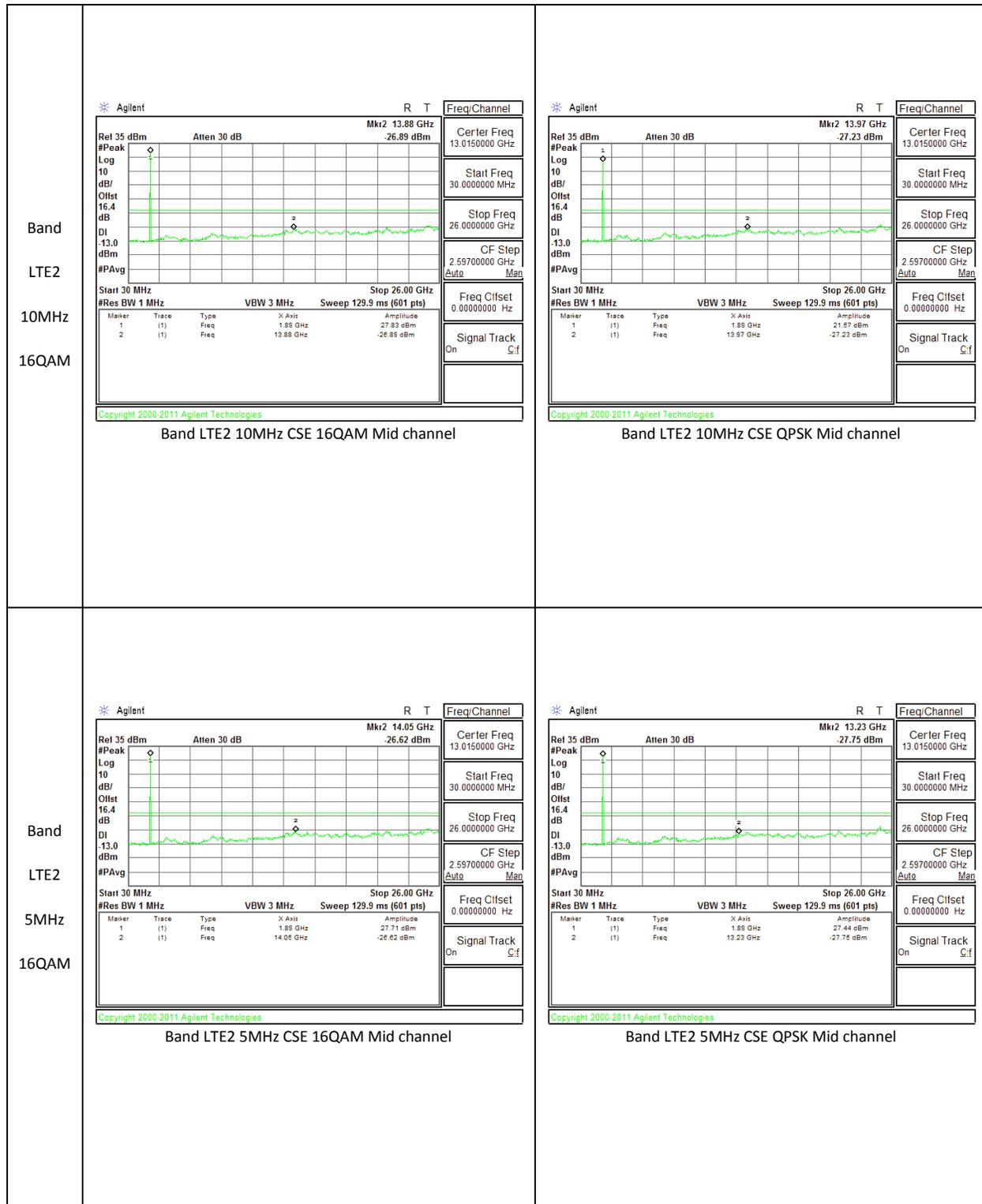


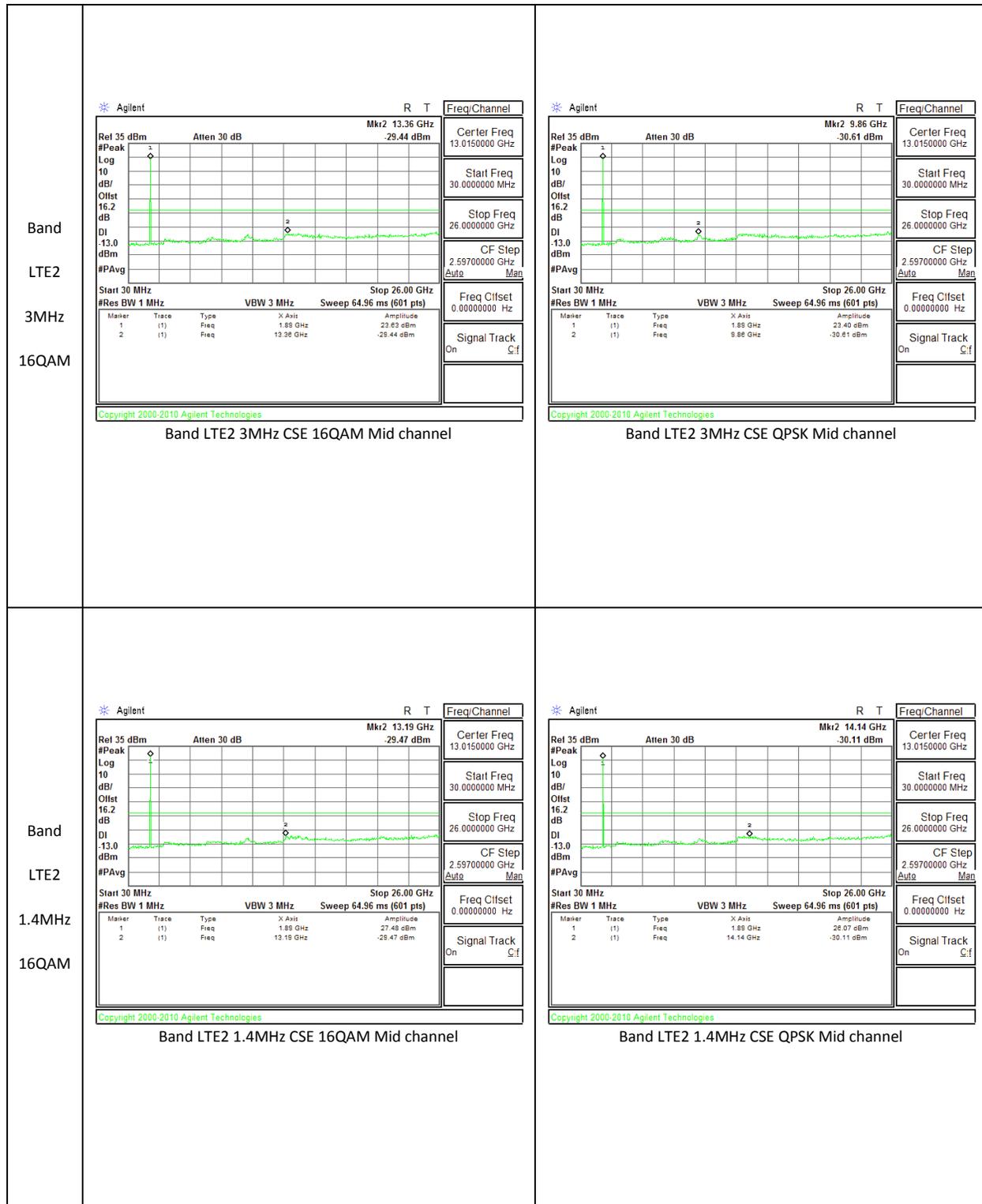


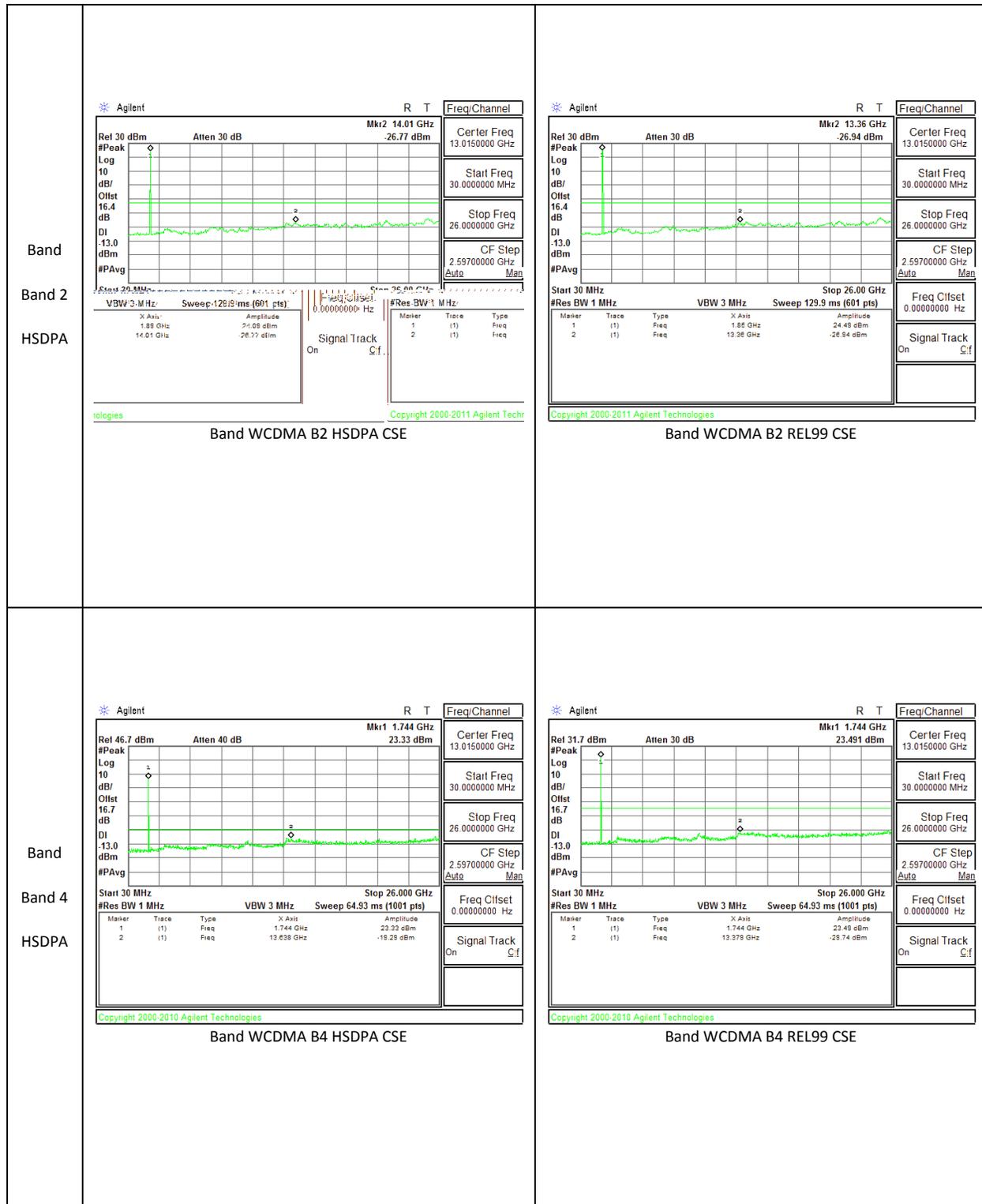


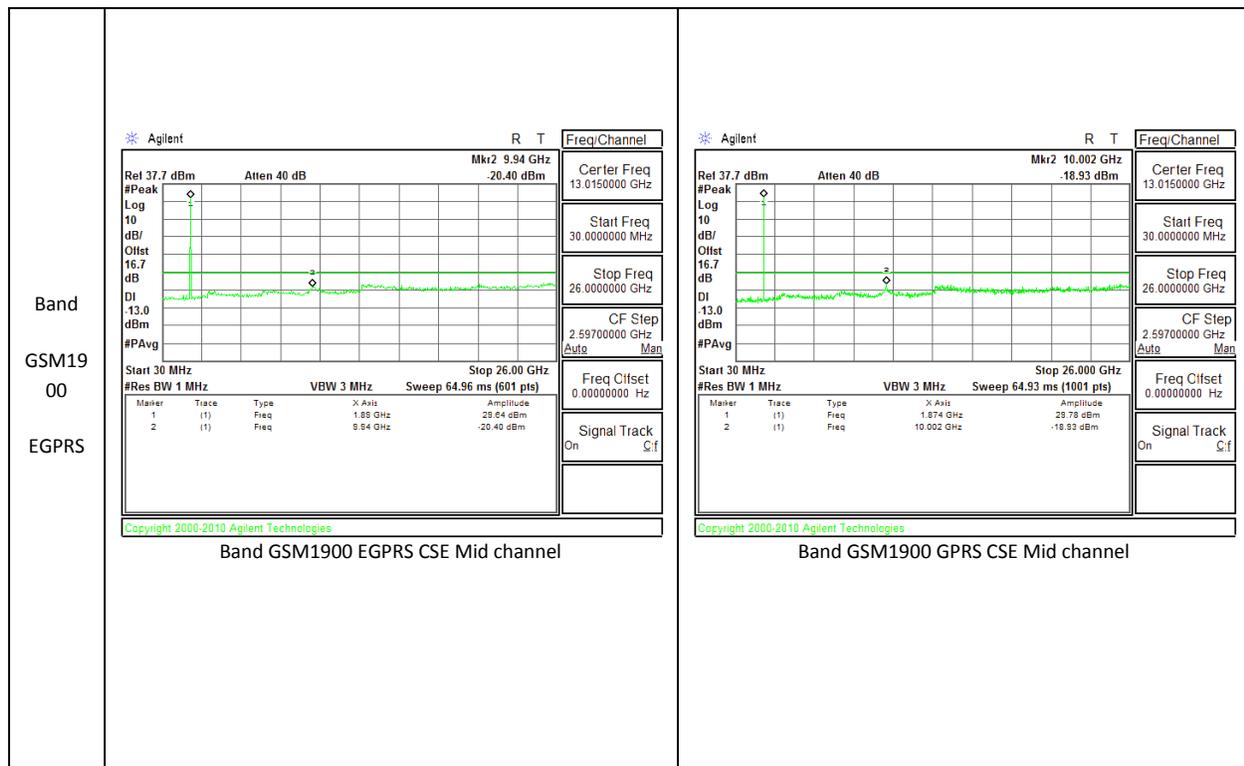


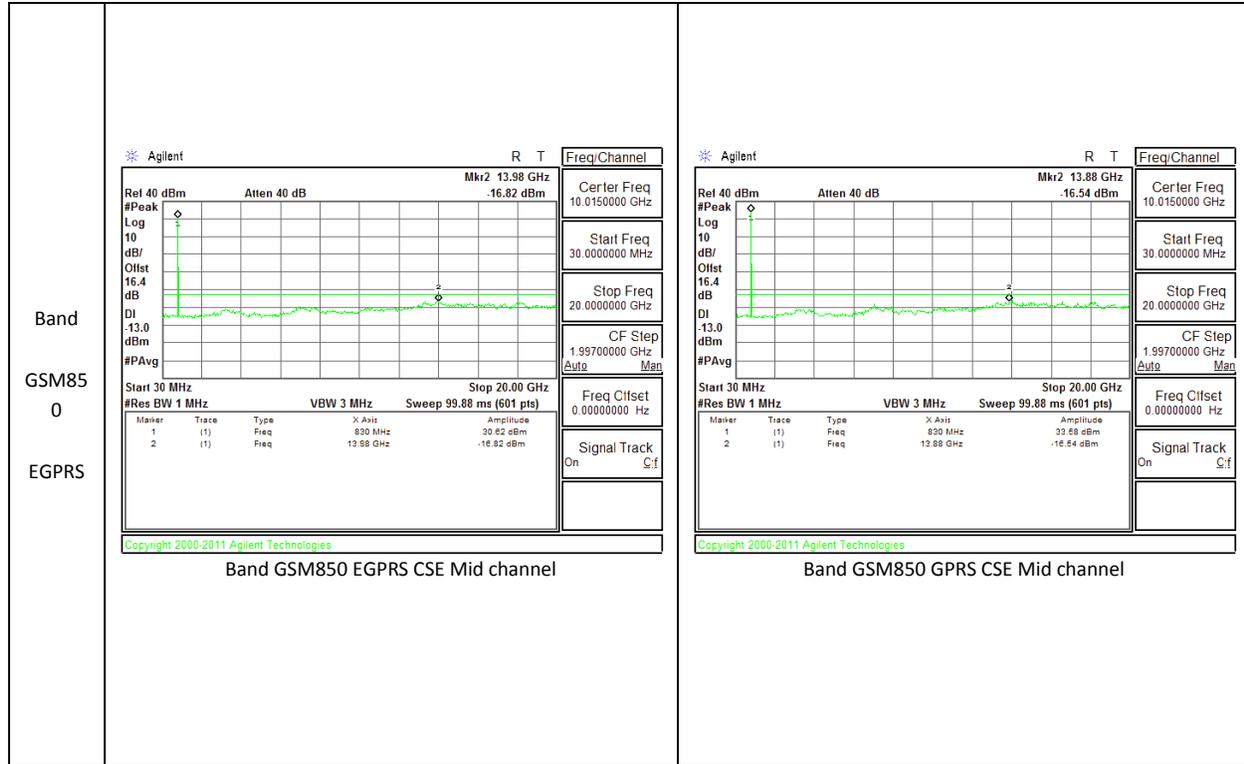












10.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

§24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

§27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r01

RESULTS

See the following pages.

10.4.1. FREQUENCY STABILITY RESULTS

BAND II, Channel 9400 Freq: 1880MHz– MID CHANNEL

Reference Frequency: PC S Mid Channel 1880MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1880.000007	0.000	2.5
3.80	40	1880.000006	0.001	2.5
3.80	30	1880.000007	0.000	2.5
3.80	20	1880.000007	0	2.5
3.80	10	1880.000007	0.000	2.5
3.80	0	1880.000008	0.000	2.5
3.80	-10	1880.000006	0.001	2.5
3.80	-20	1880.000006	0.000	2.5
3.80	-30	1880.000007	0.000	2.5

Reference Frequency: PCS Mid Channel 1880 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1880.000006	0	2.5
4.18	20	1880.000006	0.000	2.5
3.42	20	1880.000007	-0.001	2.5

BAND V, Channel 4183, Freq: 836.6MHz – MID CHANNEL

Reference Frequency: Cell Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2091.500 Hz				
Power Supply (Vdc)	Environment Temperature (*C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	836.600004	-0.001	2.5
3.80	40	836.600002	0.001	2.5
3.80	30	836.599996	0.008	2.5
3.80	20	836.600003	0	2.5
3.80	10	836.600002	0.001	2.5
3.80	0	836.600004	-0.001	2.5
3.80	-10	836.599997	0.007	2.5
3.80	-20	836.600005	-0.002	2.5
3.80	-30	836.600004	-0.001	2.5

Reference Frequency: Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2091.500 Hz				
Power Supply (Vdc)	Environment Temperature (*C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	836.599998	0.00000	2.5
4.18	20	836.600003	-0.00574	2.5
3.42	20	836.599997	0.00096	2.5

BAND 4, Freq: 836.6MHz – MID CHANNEL

Reference Frequency: Cell Mid Channel 1732.6 MHz @ 20°C				
Limit: +- 2.5 ppm = 4331.500 Hz				
Power Supply (Vdc)	Environment Temperature (*C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1732.600000	0.00346	2.5
3.80	40	1732.600000	0.00346	2.5
3.80	30	1732.600000	0.00346	2.5
3.80	20	1732.600006	0.00000	2.5
3.80	10	1732.600000	0.00346	2.5
3.80	0	1732.600000	0.00346	2.5
3.80	-10	1732.600000	0.00346	2.5
3.80	-20	1732.600000	0.00346	2.5
3.80	-30	1732.600000	0.00346	2.5

Reference Frequency: Cell Mid Channel 1732.6 MHz @ 20°C				
Limit: +- 2.5 ppm = 4331.500 Hz				
Power Supply (Vdc)	Environment Temperature (*C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1732.600006	0.00000	2.5
4.18	20	1732.600007	-0.00058	2.5
3.42	20	1732.600008	-0.00115	2.5

LTE BAND 7, Channel 21100, Freq: 2535.0MHz – MID CHANNEL

Reference Frequency: Cell Mid Channel 2535.0 MHz @ 20°C				
Limit: +/- 2.5 ppm = 6337.500 Hz				
Power Supply (Vdc)	Environment Temperature (*C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	2535.000015	-0.009	2.5
3.80	40	2534.999986	0.002	2.5
3.80	30	2535.000013	-0.008	2.5
3.80	20	2534.999992	0	2.5
3.80	10	2535.000014	-0.009	2.5
3.80	0	2535.000014	-0.009	2.5
3.80	-10	2535.000017	-0.010	2.5
3.80	-20	2535.000013	-0.008	2.5
3.80	-30	2535.000016	-0.009	2.5

Reference Frequency: Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2091.500 Hz				
Power Supply (Vdc)	Environment Temperature (*C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	2535.000013	0.00000	2.5
4.18	20	2534.999992	0.02579	2.5
3.42	20	2534.999992	0.02568	2.5

LTE BAND 13, Channel 23230 Freq: 782.0MHz– MID CHANNEL

Reference Frequency: Cell Mid Channel 782MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 1955.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	781.9999935	0.003	2.5
3.80	40	781.9999959	0.000	2.5
3.80	30	781.999997	-0.002	2.5
3.80	20	781.999996	0	2.5
3.80	10	781.999997	-0.001	2.5
3.80	0	781.9999959	-0.001	2.5
3.80	-10	781.9999957	0.000	2.5
3.80	-20	781.999996	0.000	2.5
3.80	-30	781.999995	0.001	2.5

Reference Frequency: PCS Mid Channel 1880 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	781.999986	0	2.5
4.18	20	782.000014	-0.015	2.5
3.42	20	781.9999955	-0.005	2.5

LTE BAND 17, Channel 23790 Freq: 710.0MHz– MID CHANNEL

Reference Frequency: Cell Mid Channel 782MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 1775.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	710.000004	-0.001	2.5
3.80	40	710.000004	-0.001	2.5
3.80	30	710.000004	-0.001	2.5
3.80	20	710.000004	0	2.5
3.80	10	710.000005	-0.001	2.5
3.80	0	710.000005	-0.003	2.5
3.80	-10	710.000005	-0.002	2.5
3.80	-20	710.000003	0.000	2.5
3.80	-30	710.000004	-0.001	2.5

Reference Frequency: PCS Mid Channel 1880 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	710.000004	0	2.5
4.18	20	710.000004	0.000	2.5
3.42	20	710.000004	0.000	2.5

11. RADIATED TEST RESULTS

11.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.

LIMITS

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(b) - (10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP. (LTE B13)

27.50(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP; (LTE B17)

27.50(d) - (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.(Band 4)

27.50(h) - (2) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.(LTE B41 & 7)

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI / TIA / EIA 603C Clause 2.2.17; PSA setting reference to 971168 D01 v02r01

For peak power measurement with a PSA:

a) Set the RBW \geq OBW; b) Set VBW $\geq 3 \times$ RBW; c) Set span $\geq 2 \times$ RBW; d) Sweep time = auto couple; e) Detector = peak; f) Ensure that the number of measurement points \geq span/RBW; g) Trace mode = max hold;

For average power measurement with a PSA:

a) Set span to at least 1.5 times the OBW; b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz; c) Set VBW $\geq 3 \times$ RBW; d) Set number of points in sweep $\geq 2 \times$ span / RBW; e) Sweep time = auto-couple; f) Detector = RMS (power averaging); g) Use free run trigger If burst duty cycle ≥ 98 ; h) Use trigger to capture bursts If burst duty cycle < 98 ; i) Trace average at least 100 traces in power averaging (*i.e.*, RMS) mode. j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

TEST RESULTS

11.1.1. ERP/EIRP Results

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 2	REL99	9262	1852.4	26.273	423.94
		9400	1880	25.651	367.37
		9538	1907.6	26.152	412.29
	HSDPA	9262	1852.4	25.677	369.57
		9400	1880	25.081	322.18
		9538	1907.6	25.302	339

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 4	REL99	1312	1712.4	24.696	294.85
		1413	1732.6	24.06	254.68
		1513	1752.6	24.834	304.37
	HSDPA	1312	1712.4	24.97	314.05
		1413	1732.6	23.71	234.96
		1513	1752.6	24.94	311.89

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 5	REL99	4132	826.4	22.464	176.36
		4183	836.6	23.251	211.4
		4233	846.6	22.832	191.96
	HSDPA	4132	826.4	23.031	200.96
		4183	836.6	23.564	227.2
		4233	846.6	23.199	208.88

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM1900	GPRS	512	1850.2	30.635	1157.44
		661	1880	31.152	1303.77
		810	1909.8	30.665	1165.47
	EGPRS	512	1850.2	27.66	583.45
		661	1880	28.237	666.35
		810	1909.8	27.707	589.79

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM850	GPRS	128	824.2	30.859	1218.71
		190	836.6	31.925	1557.76
		251	848.8	31.534	1423.64
	EGPRS	128	824.2	26.612	458.35
		190	836.6	27.134	516.89
		251	848.8	27.118	514.99

11.1.2. LTE ERP/EIRP Results

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE17	10	QPSK	1/0	709	19.407	87.24
			1/0	710	19.496	89.04
			1/0	711	19.658	92.43
		16QAM	1/0	709	18.187	65.87
			1/0	710	18.236	66.62
			1/0	711	18.388	68.99

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE17	5	QPSK	1/0	706.5	19.377	86.64
			1/0	710	19.726	93.89
			1/0	713.5	19.728	93.93
		16QAM	1/0	706.5	18.287	67.41
			1/0	710	18.716	74.4
			1/0	713.5	18.758	75.13

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE13	10	QPSK	1/0	782	18.976	79
			1/0	782	18.976	79
			1/0	782	18.976	79
		16QAM	1/0	782	17.916	61.89
			1/0	782	17.916	61.89
			1/0	782	17.916	61.89

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE13	5	QPSK	1/0	779.5	18.313	67.81
			1/0	782	18.766	75.27
			1/0	784.5	18.511	70.97
		16QAM	1/0	779.5	17.343	54.24
			1/0	782	17.446	55.54
			1/0	784.5	17.351	54.34

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE7	20	QPSK	1/0	2510	25.82	381.94
			1/0	2535	26.82	480.84
			1/0	2560	26.36	432.51
		16QAM	1/0	2510	24.87	306.9
			1/0	2535	25.6	363.08
			1/0	2560	25.22	332.66

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE7	15	QPSK	1/0	2507.5	25.86	385.48
			1/0	2535	26.98	498.88
			1/0	2562.5	26.5	446.68
		16QAM	1/0	2507.5	24.89	308.32
			1/0	2535	25.66	368.13
			1/0	2562.5	25.49	354

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE7	10	QPSK	1/0	2505	26.28	424.62
			1/0	2535	27.08	510.5
			1/0	2565	26.85	484.17
		16QAM	1/0	2505	25.13	325.84
			1/0	2535	26.13	410.2
			1/0	2565	25.76	376.7

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE7	5	QPSK	1/0	2502.5	25.77	377.57
			1/0	2535	26.72	469.89
			1/0	2567.5	26.52	448.75
		16QAM	1/0	2502.5	25.09	322.85
			1/0	2535	25.85	384.59
			1/0	2567.5	25.76	376.7

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	10	QPSK	1/0	829	21.392	137.78
			1/0	836.5	22.756	188.63
			1/0	844	21.995	158.31
		16QAM	1/0	829	20.952	124.51
			1/0	836.5	21.486	140.8
			1/0	844	21.195	131.67

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	5	QPSK	1/0	826.5	21.732	149
			1/0	836.5	22.546	179.72
			1/0	846.5	22.085	161.62
		16QAM	1/0	826.5	20.442	110.71
			1/0	836.5	21.406	138.23
			1/0	846.5	21.095	128.68

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	3	QPSK	1/0	825.5	21.552	142.96
			1/0	836.5	22.286	169.28
			1/0	847.5	21.855	153.29
		16QAM	1/0	825.5	20.722	118.09
			1/0	836.5	21.646	146.08
			1/0	847.5	21.025	126.62

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	1.4	QPSK	1/0	824.7	22.632	183.32
			1/0	836.5	23.306	214.09
			1/0	848.3	22.695	185.99
		16QAM	1/0	824.7	21.752	149.69
			1/0	836.5	22.526	178.9
			1/0	848.3	21.715	148.42

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	24.66	292.42
			1/0	1732.5	25.86	385.48
			1/0	1745	25.79	379.31
		16QAM	1/0	1720	23.94	247.74
			1/0	1732.5	25.12	325.09
			1/0	1745	24.86	306.2

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	15	QPSK	1/0	1717.5	24.99	315.5
			1/0	1732.5	26.07	404.58
			1/0	1747.5	25.67	368.98
		16QAM	1/0	1717.5	24.09	256.45
			1/0	1732.5	25.29	338.06
			1/0	1747.5	24.73	297.17

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	10	QPSK	1/0	1715	25.04	319.15
			1/0	1732.5	26.08	405.51
			1/0	1750	26.35	431.52
		16QAM	1/0	1715	24.12	258.23
			1/0	1732.5	25.23	333.43
			1/0	1750	25.53	357.27

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	5	QPSK	1/0	1712.5	24.74	297.85
			1/0	1732.5	25.18	329.61
			1/0	1752.5	24.93	311.17
		16QAM	1/0	1712.5	23.37	217.27
			1/0	1732.5	24.02	252.35
			1/0	1752.5	23.63	230.67

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	3	QPSK	1/0	1711.5	24.15	260.02
			1/0	1732.5	25.08	322.11
			1/0	1753.5	24.2	263.03
		16QAM	1/0	1711.5	22.88	194.09
			1/0	1732.5	23.97	249.46
			1/0	1753.5	23.41	219.28

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	1.4	QPSK	1/0	1710.7	24.07	255.27
			1/0	1732.5	25.11	324.34
			1/0	1754.3	23.54	225.94
		16QAM	1/0	1710.7	23.23	210.38
			1/0	1732.5	23.99	250.61
			1/0	1754.3	22.38	172.98

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	20	QPSK	1/0	1860	26.41	437.52
			1/0	1880	25.94	392.64
			1/0	1900	26.41	437.52
		16QAM	1/0	1860	25.05	319.89
			1/0	1880	24.91	309.74
			1/0	1900	25.41	347.54

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	15	QPSK	1/0	1857.5	26.39	435.51
			1/0	1880	25.61	363.92
			1/0	1902.5	26.03	400.87
		16QAM	1/0	1857.5	25.35	342.77
			1/0	1880	24.35	272.27
			1/0	1902.5	25.36	343.56

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	10	QPSK	1/0	1855	26.31	427.56
			1/0	1880	25.75	375.84
			1/0	1905	26.1	407.38
		16QAM	1/0	1855	25.48	353.18
			1/0	1880	24.44	277.97
			1/0	1905	24.91	309.74

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	5	QPSK	1/0	1852.5	26.28	424.62
			1/0	1880	25.76	376.7
			1/0	1907.5	26.24	420.73
		16QAM	1/0	1852.5	25.5	354.81
			1/0	1880	24.69	294.44
			1/0	1907.5	25.04	319.15

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	3	QPSK	1/0	1851.5	25.93	391.74
			1/0	1880	24.82	303.39
			1/0	1908.5	25.41	347.54
		16QAM	1/0	1851.5	24.69	294.44
			1/0	1880	23.87	243.78
			1/0	1908.5	24.47	279.9

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	1.4	QPSK	1/0	1850.7	26.17	414
			1/0	1880	25.16	328.1
			1/0	1909.3	25.78	378.44
		16QAM	1/0	1850.7	25.07	321.37
			1/0	1880	24.31	269.77
			1/0	1909.3	24.83	304.09

11.1.3. ERP/EIRP DATA

Band LTE17 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company:		Sony						
	Project #:		14U17933						
	Date:		08/14/14						
	Test Engineer:		K. Ros						
	Configuration:		EUT only, x-pos						
	Mode:		LTE17 10MHz 16QAM						
	Test Equipment:								
	Receiving: Hybrid T243, and Chamber B SMA Cables								
	Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	709.00	12.26	V	0.9	0.0	11.36	34.8	-23.4	
	709.00	19.09	H	0.9	0.0	18.19	34.8	-16.6	
	Mid Ch								
	710.00	12.25	V	0.9	0.0	11.35	34.8	-23.4	
	710.00	19.14	H	0.9	0.0	18.24	34.8	-16.5	
	High Ch								
	711.00	12.37	V	0.9	0.0	11.47	34.8	-23.3	
	711.00	19.29	H	0.9	0.0	18.39	34.8	-16.4	
Rev. 3.17.11									
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									

Band LTE17 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company: Sony								
	Project #: 14U17933								
	Date: 08/14/14								
	Test Engineer: K. Ros								
	Configuration: EUT only, x-pos								
	Mode: LTE17 10MHz QPSK								
	Test Equipment: Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
709.00	13.46	V	0.9	0.0	12.56	34.8	-22.2		
709.00	20.31	H	0.9	0.0	19.41	34.8	-15.4		
Mid Ch									
710.00	13.33	V	0.9	0.0	12.43	34.8	-22.4		
710.00	20.40	H	0.9	0.0	19.50	34.8	-15.3		
High Ch									
711.00	13.57	V	0.9	0.0	12.67	34.8	-22.1		
711.00	20.56	H	0.9	0.0	19.66	34.8	-15.1		
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									

Band LTE17 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																																										
	Company: Sony Project #: 14U17933 Date: 08/14/14 Test Engineer: K. Ros Configuration: EUT only, x-pos Mode: LTE17 5MHz 16QAM																																																																																										
	Test Equipment: Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.																																																																																										
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Band LTE17 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company: Sony Project #: 14U17933 Date: 08/14/14 Test Engineer: K. Ros Configuration: EUT only, x-pos Mode: LTE17 5MHz QPSK								
	Test Equipment: Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	706.50	13.56	V	0.9	0.0	12.66	34.8	-22.1	
	706.50	20.28	H	0.9	0.0	19.38	34.8	-15.4	
	Mid Ch								
	710.00	13.81	V	0.9	0.0	12.91	34.8	-21.9	
	710.00	20.63	H	0.9	0.0	19.73	34.8	-15.1	
High Ch									
713.50	13.87	V	0.9	0.0	12.97	34.8	-21.8		
713.50	20.63	H	0.9	0.0	19.73	34.8	-15.1		
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									

Band LTE13 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company:		Sony						
	Project #:		14U17933						
	Date:		08/14/14						
	Test Engineer:		K. Ros						
	Configuration:		EUT only, x-pos						
	Mode:		LTE13 10MHz 16QAM						
	Test Equipment:								
	Receiving: Hybrid T243, and Chamber B SMA Cables								
	Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	782.00	8.18	V	0.9	0.0	7.28	34.8	-27.5	
	782.00	18.82	H	0.9	0.0	17.92	34.8	-16.9	
	Mid Ch								
	782.00	8.18	V	0.9	0.0	7.28	34.8	-27.5	
	782.00	18.82	H	0.9	0.0	17.92	34.8	-16.9	
	High Ch								
	782.00	8.18	V	0.9	0.0	7.28	34.8	-27.5	
	782.00	18.82	H	0.9	0.0	17.92	34.8	-16.9	
	Rev. 3.17.11								
	Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

Band LTE13 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company: Sony Project #: 14U17933 Date: 08/14/14 Test Engineer: K. Ros Configuration: EUT only, x-pos Mode: LTE13 10MHz QPSK								
	Test Equipment: Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	782.00	9.16	V	0.9	0.0	8.26	34.8	-26.5	
	782.00	19.88	H	0.9	0.0	18.98	34.8	-15.8	
	Mid Ch								
	782.00	9.16	V	0.9	0.0	8.26	34.8	-26.5	
	782.00	19.88	H	0.9	0.0	18.98	34.8	-15.8	
High Ch									
782.00	9.16	V	0.9	0.0	8.26	34.8	-26.5		
782.00	19.88	H	0.9	0.0	18.98	34.8	-15.8		
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Band LTE7 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																																																		
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	Test Engineer:		K. Ros						
	Configuration:		EUT only, X-pos						
	Mode:		LTE 7 10MHz 16QAM FUND						
	Test Equipment:								
	Receiving: Horn T345, and Chamber B SMA Cables								
	Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2505.00	13.36	V	0.9	9.4	21.86	33.0	-11.1	
	2505.00	16.63	H	0.9	9.4	25.13	33.0	-7.9	
	Mid Ch								
	2535.00	13.76	V	0.9	9.4	22.26	33.0	-10.7	
	2535.00	17.63	H	0.9	9.4	26.13	33.0	-6.9	
	High Ch								
	2565.00	13.58	V	0.9	9.4	22.08	33.0	-10.9	
	2565.00	17.26	H	0.9	9.4	25.76	33.0	-7.2	
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2535.00	17.35	H	0.9	9.4	25.85	33.0	-7.2																																																																																												
High Ch																																																																																																			
2567.50	14.78	V	0.9	9.4	23.28	33.0	-9.7																																																																																												
2567.50	17.26	H	0.9	9.4	25.76	33.0	-7.2																																																																																												
Rev. 3.17.11		Note: For Band 4 EIRP limit is 30dBm																																																																																																	

Band LTE7 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																																																	
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	Test Engineer:		K. Ros																																																																																															
	Configuration:		EUT only, X-pos																																																																																															
	Mode:		LTE 7 5MHz QPSK FUND																																																																																															
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Band LTE5 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company:		Sony						
	Project #:		14U17933						
	Date:		08/14/14						
	Test Engineer:		K. Ros						
	Configuration:		EUT only, x-pos						
	Mode:		LTE5 10MHz 16QAM						
	Test Equipment:								
	Receiving: Hybrid T243, and Chamber B SMA Cables								
	Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	829.00	17.30	V	0.9	0.0	16.40	38.5	-22.0	
	829.00	21.85	H	0.9	0.0	20.95	38.5	-17.5	
	Mid Ch								
	836.50	17.57	V	0.9	0.0	16.68	38.5	-21.8	
	836.50	22.39	H	0.9	0.0	21.49	38.5	-17.0	
	High Ch								
	844.00	16.43	V	0.9	0.0	15.53	38.5	-22.9	
	844.00	22.09	H	0.9	0.0	21.20	38.5	-17.3	
	Rev. 3.17.11								
	Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B									
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Date:		08/14/14							
Test Engineer:		K. Ros							
Configuration:		EUT only, x-pos							
Mode:		LTE5 10MHz QPSK							
Test Equipment:									
Receiving: Hybrid T243, and Chamber B SMA Cables									
Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.									
Band	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Notes
LTE5	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
10MHz	Low Ch								
QPSK	829.00	17.40	V	0.9	0.0	16.50	38.5	-21.9	
	829.00	22.29	H	0.9	0.0	21.39	38.5	-17.1	
	Mid Ch								
	836.50	18.57	V	0.9	0.0	17.68	38.5	-20.8	
	836.50	23.66	H	0.9	0.0	22.76	38.5	-15.7	
	High Ch								
	844.00	16.93	V	0.9	0.0	16.03	38.5	-22.4	
	844.00	22.89	H	0.9	0.0	22.00	38.5	-16.5	
Rev. 3.17.11									
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Date:		08/14/14						
Test Engineer:		K. Ros						
Configuration:		EUT only, x-pos						
Mode:		LTE5 5MHz QPSK						
Test Equipment:		Receiving: Horn T345, and Chamber B SMA Cables Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.						
Band								
LTE5								
5MHz								
QPSK								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
826.50	17.60	V	0.9	0.0	16.70	38.5	-21.7	
826.50	22.63	H	0.9	0.0	21.73	38.5	-16.7	
Mid Ch								
836.50	18.19	V	0.9	0.0	17.30	38.5	-21.2	
836.50	23.45	H	0.9	0.0	22.55	38.5	-15.9	
High Ch								
846.50	16.83	V	0.9	0.0	15.93	38.5	-22.5	
846.50	22.98	H	0.9	0.0	22.09	38.5	-16.4	
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

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847.50	16.83	V	0.9	0.0	15.93	38.5	-22.5																																																																																										
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	1720.00	15.10	V	0.9	8.2	22.40	30.0	-7.6	
	1720.00	17.36	H	0.9	8.2	24.66	30.0	-5.3	
	Mid Ch								
	1732.50	17.46	V	0.9	8.2	24.76	30.0	-5.2	
	1732.50	18.56	H	0.9	8.2	25.86	30.0	-4.1	
High Ch									
1745.00	17.10	V	0.9	8.2	24.40	30.0	-5.6		
1745.00	18.49	H	0.9	8.2	25.79	30.0	-4.2		
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Band	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
LTE4	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
3MHz	Low Ch								
QPSK	1711.50	13.80	V	0.9	8.2	21.10	30.0	-8.9	
	1711.50	16.85	H	0.9	8.2	24.15	30.0	-5.9	
	Mid Ch								
	1732.50	16.05	V	0.9	8.2	23.35	30.0	-6.7	
	1732.50	17.78	H	0.9	8.2	25.08	30.0	-4.9	
	High Ch								
	1753.50	14.80	V	0.9	8.2	22.10	30.0	-7.9	
	1753.50	16.90	H	0.9	8.2	24.20	30.0	-5.8	
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Band LTE2 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
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	Configuration:		EUT only, X-pos						
	Mode:		LTE 2 20MHz 16QAM FUND						
	Test Equipment:								
	Receiving: Horn T345, and Chamber B SMA Cables								
	Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1860.00	9.50	V	0.9	7.9	16.50	33.0	-16.5	
	1860.00	18.95	H	0.9	7.0	25.05	33.0	-8.0	
	Mid Ch								
	1880.00	9.05	V	0.9	7.9	16.05	33.0	-17.0	
	1880.00	17.91	H	0.9	7.9	24.91	33.0	-8.1	
	High Ch								
	1900.00	8.60	V	0.9	7.9	15.60	33.0	-17.4	
	1900.00	18.41	H	0.9	7.9	25.41	33.0	-7.6	
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	Test Engineer: K. Ros								
	Configuration: EUT only, X-pos								
	Mode: LTE 2 20MHz QPSK FUND								
	Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch 1860.00 10.10 V 0.9 7.9 17.10 33.0 -15.9 1860.00 19.41 H 0.9 7.9 26.41 33.0 -6.6 Mid Ch 1880.00 10.10 V 0.9 7.9 17.10 33.0 -15.9 1880.00 18.94 H 0.9 7.9 25.94 33.0 -7.1 High Ch 1900.00 9.70 V 0.9 7.9 16.70 33.0 -16.3 1900.00 19.41 H 0.9 7.9 26.41 33.0 -6.6								

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	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1855.00	10.20	V	0.9	7.9	17.20	33.0	-15.8	
	1855.00	18.48	H	0.9	7.9	25.48	33.0	-7.5	
	Mid Ch								
	1880.00	9.65	V	0.9	7.9	16.65	33.0	-16.4	
	1880.00	17.44	H	0.9	7.9	24.44	33.0	-8.6	
	High Ch								
	1905.00	9.20	V	0.9	7.9	16.20	33.0	-16.8	
	1905.00	17.91	H	0.9	7.9	24.91	33.0	-8.1	
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	Project #:		14U17933																																																																																														
	Date:		08/13/14																																																																																														
	Test Engineer:		K. Ros																																																																																														
	Configuration:		EUT only, X-pos																																																																																														
	Mode:		LTE 2 3MHz QPSK FUND																																																																																														
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	Receiving: Horn T345, and Chamber B SMA Cables																																																																																																
	Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse																																																																																																
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																									
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Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm																																																																																																	

Band LTE2 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company:		Sony						
	Project #:		14U17933						
	Date:		08/13/14						
	Test Engineer:		K. Ros						
	Configuration:		EUT only, X-pos						
	Mode:		LTE 2 1.4MHz 16QAM FUND						
	Test Equipment:								
	Receiving: Horn T345, and Chamber B SMA Cables								
	Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1850.70	14.30	V	0.9	7.9	21.30	33.0	-11.7	
	1850.70	18.07	H	0.9	7.9	25.07	33.0	-7.9	
	Mid Ch								
	1880.00	14.02	V	0.9	7.9	21.02	33.0	-12.0	
	1880.00	17.31	H	0.9	7.9	24.31	33.0	-8.7	
	High Ch								
	1909.30	13.60	V	0.9	7.9	20.60	33.0	-12.4	
	1909.30	17.83	H	0.9	7.9	24.83	33.0	-8.2	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								

Band LTE2 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																																																	
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	Project #: 14U17933																																																																																																	
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	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																									
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1850.70	15.50	V	0.9	7.9	22.50	33.0	-10.5																																																																																											
1850.70	19.17	H	0.9	7.9	26.17	33.0	-6.8																																																																																											
Mid Ch																																																																																																		
1880.00	15.01	V	0.9	7.9	22.01	33.0	-11.0																																																																																											
1880.00	18.16	H	0.9	7.9	25.16	33.0	-7.8																																																																																											
High Ch																																																																																																		
1909.30	14.70	V	0.9	7.9	21.70	33.0	-11.3																																																																																											
1909.30	18.78	H	0.9	7.9	25.78	33.0	-7.2																																																																																											
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm																																																																																																		

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
Company:		Sony						
Project #:		14U17933						
Date:		08/13/14						
Test Engineer:		T. Oeur, K.Huynh						
Configuration:		EUT						
Mode:		HSDPA B2						
Test Equipment:								
Receiving: Horn T345, and Chamber B SMA Cables								
Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1852.40	17.79	V	0.9	7.9	24.79	33.0	-8.2	
1852.40	18.68	H	0.9	7.9	25.68	33.0	-7.3	
Mid Ch								
1880.00	17.73	V	0.9	7.9	24.73	33.0	-8.3	
1880.00	18.08	H	0.9	7.9	25.08	33.0	-7.9	
High Ch								
1907.60	15.60	V	0.9	7.9	22.60	33.0	-10.4	
1907.60	18.30	H	0.9	7.9	25.30	33.0	-7.7	
Rev. 3.17.11								
Note: For Band 4 EIRP limit is 30dBm								

Band
 Band 2
 HSDPA

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
Company:		Sony						
Project #:		14U17933						
Date:		08/13/14						
Test Engineer:		T. Oeur, K.Huynh						
Configuration:		EUT						
Mode:		REL99 B2						
Test Equipment:								
Receiving: Horn T345, and Chamber B SMA Cables								
Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1852.40	18.45	V	0.9	7.9	25.45	33.0	-7.5	
1852.40	19.27	H	0.9	7.9	26.27	33.0	-6.7	
Mid Ch								
1880.00	18.02	V	0.9	7.9	25.02	33.0	-8.0	
1880.00	18.65	H	0.9	7.9	25.65	33.0	-7.3	
High Ch								
1907.60	16.44	V	0.9	7.9	23.44	33.0	-9.6	
1907.60	19.15	H	0.9	7.9	26.15	33.0	-6.8	
Rev. 3.17.11								
Note: For Band 4 EIRP limit is 30dBm								

Band
 Band 2
 REL99

		High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C							
Band Band 4 HSDPA	Company:		Sony						
	Project #:		14U17933						
	Date:		08/13/14						
	Test Engineer:		T. Oeur, K.Huynh						
	Configuration:		EUT						
	Mode:		HSDPA B4						
	Test Equipment:								
	Receiving:		Horn T345, and Chamber B SMA Cables						
	Substitution:		Horn T59 Substitution, 4ft SMA Cable Warehouse						
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch									
1712.40	17.58	V	0.9	7.9	24.58	33.0	-8.4		
1712.40	17.97	H	0.9	7.9	24.97	33.0	-8.0		
Mid Ch									
1732.60	16.71	V	0.9	7.9	23.71	33.0	-9.3		
1732.60	16.69	H	0.9	7.9	23.69	33.0	-9.3		
High Ch									
1752.60	15.28	V	0.9	7.9	22.28	33.0	-10.7		
1752.60	17.94	H	0.9	7.9	24.94	33.0	-8.1		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
Company:		Sony						
Project #:		14U17933						
Date:		08/13/14						
Test Engineer:		T. Oeur, K.Huynh						
Configuration:		EUT						
Mode:		REL99 B4						
Test Equipment:								
Receiving: Horn T345, and Chamber B SMA Cables								
Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1712.40	15.22	V	0.9	7.9	22.22	33.0	-10.8	
1712.40	17.70	H	0.9	7.9	24.70	33.0	-8.3	
Mid Ch								
1732.60	16.30	V	0.9	7.9	23.30	33.0	-9.7	
1732.60	17.06	H	0.9	7.9	24.06	33.0	-8.9	
High Ch								
1752.60	15.56	V	0.9	7.9	22.56	33.0	-10.4	
1752.60	17.83	H	0.9	7.9	24.83	33.0	-8.2	
Rev. 3.17.11								
Note: For Band 4 EIRP limit is 30dBm								

Band
 Band 4
 REL99

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
Company:		Sony						
Project #:		14U17933						
Date:		08/13/14						
Test Engineer:		T. Oeur, K. Huynh						
Configuration:		EUT						
Mode:		HSDPA B5						
Test Equipment:								
Receiving: Sunol T185, and 3m Chamber N-type Cable (Setup this one for testing EUT)								
Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
826.40	18.55	V	0.5	0.0	18.05	38.5	-20.4	
826.40	23.53	H	0.5	0.0	23.03	38.5	-15.4	
Mid Ch								
836.60	18.52	V	0.5	0.0	18.02	38.5	-20.4	
836.60	24.06	H	0.5	0.0	23.56	38.5	-14.9	
High Ch								
846.60	16.51	V	0.5	0.0	16.07	38.5	-22.4	
846.60	23.70	H	0.5	0.0	23.20	38.5	-15.3	
Rev. 3.17.11								
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

Band
 Band 5
 HSDPA

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
Company:		Sony						
Project #:		14U17933						
Date:		08/13/14						
Test Engineer:		T. Oeur, K. Huynh						
Configuration:		EUT						
Mode:		REL 99 B5						
Test Equipment:								
Receiving: Sunol T185, and 3m Chamber N-type Cable (Setup this one for testing EUT)								
Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
826.40	17.88	V	0.5	0.0	17.39	38.5	-21.1	
826.40	22.96	H	0.5	0.0	22.46	38.5	-16.0	
Mid Ch								
836.60	17.91	V	0.5	0.0	17.41	38.5	-21.0	
836.60	23.75	H	0.5	0.0	23.25	38.5	-15.2	
High Ch								
846.60	16.80	V	0.5	0.0	16.30	38.5	-22.2	
846.60	23.33	H	0.5	0.0	22.83	38.5	-15.6	
Rev. 3.17.11								
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

Band
 Band 5
 REL99

Band GSM19 00 EGPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company:		Sony						
	Project #:		14U17933						
	Date:		08/14/14						
	Test Engineer:		K. Huynh, T. Oeur						
	Configuration:		EUT						
	Mode:		EGPRS1900						
	Test Equipment:								
	Receiving: Horn T345, and Chamber B SMA Cables								
	Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1850.20	19.05	V	0.9	7.9	26.05	33.0	-7.0	
	1850.20	20.66	H	0.9	7.9	27.66	33.0	-5.3	
	Mid Ch								
	1880.00	19.23	V	0.9	7.9	26.23	33.0	-6.8	
	1880.00	21.24	H	0.9	7.9	28.24	33.0	-4.8	
	High Ch								
	1909.80	19.63	V	0.9	7.9	26.63	33.0	-6.4	
	1909.80	20.71	H	0.9	7.9	27.71	33.0	-5.3	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								

Band GSM19 00 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																																																
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	Configuration:		EUT																																																																																														
	Mode:		GPRS1900																																																																																														
	Test Equipment:																																																																																																
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	Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse																																																																																																
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Rev. 3.17.11																																																																																																	
Note: For Band 4 EIRP limit is 30dBm																																																																																																	

Band GSM85 0 EGPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C																																																																																																
	Company:		Sony																																																																																														
	Project #:		14U17933																																																																																														
	Date:		08/14/14																																																																																														
	Test Engineer:		T. Oeur, K. Huynh																																																																																														
	Configuration:		EUT																																																																																														
	Mode:		EGPRS 850																																																																																														
	Test Equipment:																																																																																																
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	Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.																																																																																																
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>824.20</td> <td>20.17</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>19.27</td> <td>38.5</td> <td>-19.2</td> <td></td> </tr> <tr> <td>824.20</td> <td>27.51</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>26.61</td> <td>38.5</td> <td>-11.8</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.60</td> <td>20.89</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>19.99</td> <td>38.5</td> <td>-18.5</td> <td></td> </tr> <tr> <td>836.60</td> <td>28.03</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>27.13</td> <td>38.5</td> <td>-11.3</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>848.80</td> <td>21.03</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>20.13</td> <td>38.5</td> <td>-18.3</td> <td></td> </tr> <tr> <td>848.80</td> <td>28.02</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>27.12</td> <td>38.5</td> <td>-11.3</td> <td></td> </tr> </tbody> </table>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									824.20	20.17	V	0.9	0.0	19.27	38.5	-19.2		824.20	27.51	H	0.9	0.0	26.61	38.5	-11.8		Mid Ch									836.60	20.89	V	0.9	0.0	19.99	38.5	-18.5		836.60	28.03	H	0.9	0.0	27.13	38.5	-11.3		High Ch									848.80	21.03	V	0.9	0.0	20.13	38.5	-18.3		848.80	28.02	H	0.9	0.0	27.12	38.5	-11.3	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																									
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824.20	20.17	V	0.9	0.0	19.27	38.5	-19.2																																																																																										
824.20	27.51	H	0.9	0.0	26.61	38.5	-11.8																																																																																										
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836.60	20.89	V	0.9	0.0	19.99	38.5	-18.5																																																																																										
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Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																																	

Band GSM85 0 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company:		Sony						
	Project #:		14U17933						
	Date:		08/14/14						
	Test Engineer:		T. Oeur, K. Huynh						
	Configuration:		EUT						
	Mode:		GPRS 850						
	Test Equipment:								
	Receiving: Sunol T185, and 3m Chamber N-type Cable (Setup this one for testing EUT)								
	Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	824.20	25.74	V	0.9	0.0	24.84	38.5	-13.6	
	824.20	31.76	H	0.9	0.0	30.86	38.5	-7.6	
	Mid Ch								
	836.60	25.97	V	0.9	0.0	25.07	38.5	-13.4	
	836.60	32.82	H	0.9	0.0	31.93	38.5	-6.5	
	High Ch								
	848.80	26.31	V	0.9	0.0	25.42	38.5	-13.0	
	848.80	32.43	H	0.9	0.0	31.53	38.5	-6.9	
	Rev. 3.17.11								
	Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53

LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Part 27: (m)(4) For mobile station, the attenuation factor shall be not less than $43+10\log(P)$ dB at the channel edge and $(55+10\log(P))$ dB at 5.5MHz from the channel edges.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RESULTS

11.2.1. SPURIOUS RADIATION DATA

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/15/14								
Test Engineer:		O. Stoelting								
Configuration:		X Position, EUT w/ AC Adaptor and HS								
Mode:		LTE17 10M 16QAM HARM								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 709MHz										
LTE17	1.418	-28.3	V	3.0	37.8	1.0	-65.0	-13.0	-52.0	
	2.127	-31.9	V	3.0	36.7	1.0	-67.6	-13.0	-54.6	
10MHz	2.836	-30.5	V	3.0	36.2	1.0	-65.7	-13.0	-52.7	
	1.418	-27.7	H	3.0	37.8	1.0	-64.5	-13.0	-51.5	
16QAM	2.127	-32.8	H	3.0	36.7	1.0	-68.5	-13.0	-55.5	
	2.836	-31.2	H	3.0	36.2	1.0	-66.3	-13.0	-53.3	
Mid Ch, 710MHz										
	1.420	-25.4	V	3.0	37.8	1.0	-62.2	-13.0	-49.2	
	2.130	-31.9	V	3.0	36.7	1.0	-67.6	-13.0	-54.6	
	2.840	-30.4	V	3.0	36.2	1.0	-65.6	-13.0	-52.6	
	1.420	-24.6	H	3.0	37.8	1.0	-61.4	-13.0	-48.4	
	2.130	-32.8	H	3.0	36.7	1.0	-68.4	-13.0	-55.4	
	2.840	-31.1	H	3.0	36.2	1.0	-66.3	-13.0	-53.3	
High Ch, 711MHz										
	1.422	-24.8	V	3.0	37.8	1.0	-61.6	-13.0	-48.6	
	2.133	-31.8	V	3.0	36.7	1.0	-67.5	-13.0	-54.5	
	2.844	-30.5	V	3.0	36.2	1.0	-65.7	-13.0	-52.7	
	1.422	-24.4	H	3.0	37.8	1.0	-61.2	-13.0	-48.2	
	2.133	-32.8	H	3.0	36.7	1.0	-68.4	-13.0	-55.4	
	2.844	-31.1	H	3.0	36.2	1.0	-66.3	-13.0	-53.3	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/15/14								
Test Engineer:		O. Stoelting								
Configuration:		X Position, EUT w/ AC Adaptor and HS								
Mode:		LTE17 10M QPSK HARM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 709MHz									
LTE17	1.418	-27.7	V	3.0	37.8	1.0	-64.4	-13.0	-51.4	
	2.127	-31.8	V	3.0	36.7	1.0	-67.5	-13.0	-54.5	
10MHz	2.836	-30.6	V	3.0	36.2	1.0	-65.8	-13.0	-52.8	
	1.418	-27.0	H	3.0	37.8	1.0	-63.7	-13.0	-50.7	
	2.127	-32.9	H	3.0	36.7	1.0	-68.6	-13.0	-55.6	
QPSK	2.836	-31.2	H	3.0	36.2	1.0	-66.3	-13.0	-53.3	
	Mid Ch, 710MHz									
	1.420	-24.9	V	3.0	37.8	1.0	-61.7	-13.0	-48.7	
	2.130	-31.9	V	3.0	36.7	1.0	-67.5	-13.0	-54.5	
	2.840	-30.5	V	3.0	36.2	1.0	-65.7	-13.0	-52.7	
	1.420	-24.2	H	3.0	37.8	1.0	-61.0	-13.0	-48.0	
	2.130	-32.9	H	3.0	36.7	1.0	-68.6	-13.0	-55.6	
	2.840	-30.9	H	3.0	36.2	1.0	-66.1	-13.0	-53.1	
	High Ch, 711MHz									
	1.422	-24.6	V	3.0	37.8	1.0	-61.3	-13.0	-48.3	
	2.133	-32.0	V	3.0	36.7	1.0	-67.7	-13.0	-54.7	
	2.844	-30.4	V	3.0	36.2	1.0	-65.6	-13.0	-52.6	
	1.422	-23.9	H	3.0	37.8	1.0	-60.7	-13.0	-47.7	
	2.133	-32.5	H	3.0	36.7	1.0	-68.2	-13.0	-55.2	
	2.844	-31.0	H	3.0	36.2	1.0	-66.2	-13.0	-53.2	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/15/14								
Test Engineer:		O. Stoelting								
Configuration:		X Position, EUT w/ AC Adaptor and HS								
Mode:		LTE17 5M 16QAM HARM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE17 5MHz 16QAM	Low Ch, 706.5MHz									
	1.413	-28.1	V	3.0	37.8	1.0	-64.8	-13.0	-51.8	
	2.120	-32.0	V	3.0	36.7	1.0	-67.7	-13.0	-54.7	
	2.283	-32.0	V	3.0	36.6	1.0	-67.5	-13.0	-54.5	
	1.413	-30.0	H	3.0	37.8	1.0	-66.8	-13.0	-53.8	
	2.120	-32.8	H	3.0	36.7	1.0	-68.5	-13.0	-55.5	
	2.283	-33.0	H	3.0	36.6	1.0	-68.6	-13.0	-55.6	
	Mid Ch, 710MHz									
	1.420	-24.4	V	3.0	37.8	1.0	-61.2	-13.0	-48.2	
	2.130	-31.6	V	3.0	36.7	1.0	-67.3	-13.0	-54.3	
	2.840	-30.6	V	3.0	36.2	1.0	-65.7	-13.0	-52.7	
	1.420	-25.1	H	3.0	37.8	1.0	-61.9	-13.0	-48.9	
2.130	-32.7	H	3.0	36.7	1.0	-68.4	-13.0	-55.4		
2.840	-31.1	H	3.0	36.2	1.0	-66.2	-13.0	-53.2		
High Ch, 713.5MHz										
1.427	-25.5	V	3.0	37.7	1.0	-62.3	-13.0	-49.3		
2.141	-31.9	V	3.0	36.7	1.0	-67.6	-13.0	-54.6		
2.854	-30.1	V	3.0	36.2	1.0	-65.3	-13.0	-52.3		
1.427	-27.4	H	3.0	37.7	1.0	-64.1	-13.0	-51.1		
2.141	-31.6	H	3.0	36.7	1.0	-67.3	-13.0	-54.3		
2.854	-29.7	H	3.0	36.2	1.0	-64.8	-13.0	-51.8		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/15/14								
Test Engineer:		O. Stoelting								
Configuration:		X Position, EUT w/ AC Adaptor and HS								
Mode:		LTE17 5M QPSK HARM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 706.5MHz									
	1.413	-27.7	V	3.0	37.8	1.0	-64.5	-13.0	-51.5	
	2.120	-32.1	V	3.0	36.7	1.0	-67.8	-13.0	-54.8	
	2.283	-31.9	V	3.0	36.6	1.0	-67.5	-13.0	-54.5	
5MHz	1.413	-29.9	H	3.0	37.8	1.0	-66.7	-13.0	-53.7	
	2.120	-32.8	H	3.0	36.7	1.0	-68.5	-13.0	-55.5	
	2.283	-33.1	H	3.0	36.6	1.0	-68.7	-13.0	-55.7	
QPSK	Mid Ch, 710MHz									
	1.420	-24.1	V	3.0	37.8	1.0	-60.8	-13.0	-47.8	
	2.130	-31.6	V	3.0	36.7	1.0	-67.3	-13.0	-54.3	
	2.840	-30.4	V	3.0	36.2	1.0	-65.5	-13.0	-52.5	
	1.420	-25.3	H	3.0	37.8	1.0	-62.0	-13.0	-49.0	
	2.130	-32.8	H	3.0	36.7	1.0	-68.4	-13.0	-55.4	
	2.840	-31.1	H	3.0	36.2	1.0	-66.2	-13.0	-53.2	
	High Ch, 713.5MHz									
	1.427	-25.2	V	3.0	37.7	1.0	-61.9	-13.0	-48.9	
	2.141	-31.8	V	3.0	36.7	1.0	-67.5	-13.0	-54.5	
	2.854	-30.0	V	3.0	36.2	1.0	-65.1	-13.0	-52.1	
	1.427	-27.0	H	3.0	37.7	1.0	-63.7	-13.0	-50.7	
	2.141	-30.8	H	3.0	36.7	1.0	-66.5	-13.0	-53.5	
	2.854	-30.9	H	3.0	36.2	1.0	-66.1	-13.0	-53.1	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/15/15								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE13 10MHz 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE13 10MHz 16QAM	Low Ch, 782.0MHz									
	1.564		V	3.0	37.5	1.0		-13.0	13.0	
	2.346		V	3.0	36.5	1.0		-13.0	13.0	
	3.128		V	3.0	36.0	1.0		-13.0	13.0	
	1.564		H	3.0	37.5	1.0		-13.0	13.0	
	2.346		H	3.0	36.5	1.0		-13.0	13.0	
	3.128		H	3.0	36.0	1.0		-13.0	13.0	
	Mid Ch, 782.0MHz									
	1.564	-39.9	V	3.0	37.5	1.0	-76.4	-13.0	-63.4	
	2.346	-32.4	V	3.0	36.5	1.0	-67.9	-13.0	-54.9	
	3.128	-32.0	V	3.0	36.0	1.0	-66.9	-13.0	-53.9	
	1.564	-39.9	H	3.0	37.5	1.0	-76.4	-13.0	-63.4	
2.346	-28.8	H	3.0	36.5	1.0	-64.3	-13.0	-51.3		
3.128	-32.3	H	3.0	36.0	1.0	-67.3	-13.0	-54.3		
High Ch, 782.0MHz										
1.564		V	3.0	37.5	1.0		-13.0	13.0		
2.346		V	3.0	36.5	1.0		-13.0	13.0		
3.128		V	3.0	36.0	1.0		-13.0	13.0		
1.564		H	3.0	37.5	1.0		-13.0	13.0		
2.346		H	3.0	36.5	1.0		-13.0	13.0		
3.128		H	3.0	36.0	1.0		-13.0	13.0		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17933
Date: 08/15/15
Test Engineer: G. Chan, L. Lee
Configuration: X-Pos EUT w/ AC charger
Mode: LTE13 10MHz QPSK

Chamber

Pre-amplifier

Filter

Limit

3m Chamber

T34 8449B

Filter 1

Part 27

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 782.0MHz									
	1.564		V	3.0	37.5	1.0		-13.0	13.0	
	2.346		V	3.0	36.5	1.0		-13.0	13.0	
LTE13	3.128		V	3.0	36.0	1.0		-13.0	13.0	
	1.564		H	3.0	37.5	1.0		-13.0	13.0	
10MHz	2.346		H	3.0	36.5	1.0		-13.0	13.0	
	3.128		H	3.0	36.0	1.0		-13.0	13.0	
QPSK	Mid Ch, 782.0MHz									
	1.564	-39.7	V	3.0	37.5	1.0	-76.2	-13.0	-63.2	
	2.346	-31.5	V	3.0	36.5	1.0	-67.0	-13.0	-54.0	
	3.128	-32.1	V	3.0	36.0	1.0	-67.1	-13.0	-54.1	
	1.564	-37.4	H	3.0	37.5	1.0	-73.9	-13.0	-60.9	
	2.346	-33.7	H	3.0	36.5	1.0	-69.2	-13.0	-56.2	
	3.128	-31.9	H	3.0	36.0	1.0	-66.9	-13.0	-53.9	
	High Ch, 782.0MHz									
	1.564		V	3.0	37.5	1.0		-13.0	13.0	
	2.346		V	3.0	36.5	1.0		-13.0	13.0	
	3.128		V	3.0	36.0	1.0		-13.0	13.0	
	1.564		H	3.0	37.5	1.0		-13.0	13.0	
	2.346		H	3.0	36.5	1.0		-13.0	13.0	
	3.128		H	3.0	36.0	1.0		-13.0	13.0	

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/15/15								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE13 5MHz 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE13 5MHz 16QAM	Low Ch, 779.5MHz									
	1.559	-35.3	V	3.0	37.5	1.0	-71.8	-13.0	-58.8	
	2.339	-28.9	V	3.0	36.5	1.0	-64.4	-13.0	-51.4	
	3.118	-30.9	V	3.0	36.0	1.0	-65.9	-13.0	-52.9	
	1.559	-39.6	H	3.0	37.5	1.0	-76.2	-13.0	-63.2	
	2.339	-25.3	H	3.0	36.5	1.0	-60.9	-13.0	-47.9	
	3.118	-31.9	H	3.0	36.0	1.0	-66.8	-13.0	-53.8	
	Mid Ch, 782.0MHz									
	1.564	-33.7	V	3.0	37.5	1.0	-70.3	-13.0	-57.3	
	2.346	-29.0	V	3.0	36.5	1.0	-64.5	-13.0	-51.5	
	3.128	-32.1	V	3.0	36.0	1.0	-67.1	-13.0	-54.1	
	1.564	-39.9	H	3.0	37.5	1.0	-76.4	-13.0	-63.4	
	2.346	-28.9	H	3.0	36.5	1.0	-64.5	-13.0	-51.5	
	3.128	-32.4	H	3.0	36.0	1.0	-67.4	-13.0	-54.4	
	High Ch, 784.5MHz									
	1.569	-30.6	V	3.0	37.5	1.0	-67.1	-13.0	-54.1	
	2.354	-27.6	V	3.0	36.5	1.0	-63.1	-13.0	-50.1	
	3.138	-30.0	V	3.0	36.0	1.0	-64.9	-13.0	-51.9	
1.569	-28.3	H	3.0	37.5	1.0	-64.8	-13.0	-51.8		
2.354	-32.4	H	3.0	36.5	1.0	-67.9	-13.0	-54.9		
3.138	-32.1	H	3.0	36.0	1.0	-67.1	-13.0	-54.1		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/15/15								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE13 5MHz QPSK								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE13 5MHz QPSK	Low Ch, 779.5MHz									
	1.559	-34.8	V	3.0	37.5	1.0	-71.4	-13.0	-58.4	
	2.339	-28.3	V	3.0	36.5	1.0	-63.8	-13.0	-50.8	
	3.118	-30.6	V	3.0	36.0	1.0	-65.5	-13.0	-52.5	
	1.559	-39.5	H	3.0	37.5	1.0	-76.0	-13.0	-63.0	
	2.339	-24.8	H	3.0	36.5	1.0	-60.4	-13.0	-47.4	
	3.118	-31.9	H	3.0	36.0	1.0	-66.9	-13.0	-53.9	
	Mid Ch, 782.0MHz									
	1.564	-32.3	V	3.0	37.5	1.0	-68.8	-13.0	-55.8	
	2.346	-27.6	V	3.0	36.5	1.0	-63.1	-13.0	-50.1	
	3.128	-31.8	V	3.0	36.0	1.0	-66.8	-13.0	-53.8	
	1.564	-39.9	H	3.0	37.5	1.0	-76.5	-13.0	-63.5	
	2.346	-28.5	H	3.0	36.5	1.0	-64.0	-13.0	-51.0	
	3.128	-32.2	H	3.0	36.0	1.0	-67.1	-13.0	-54.1	
	High Ch, 784.5MHz									
	1.569	-29.6	V	3.0	37.5	1.0	-66.1	-13.0	-53.1	
	2.354	-28.0	V	3.0	36.5	1.0	-63.5	-13.0	-50.5	
	3.138	-29.0	V	3.0	36.0	1.0	-64.0	-13.0	-51.0	
1.569	-27.5	H	3.0	37.5	1.0	-64.0	-13.0	-51.0		
2.354	-31.4	H	3.0	36.5	1.0	-66.9	-13.0	-53.9		
3.138	-31.9	H	3.0	36.0	1.0	-66.9	-13.0	-53.9		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Band LTE13 5MHz 16QAM GPS band emission	<div style="text-align: center; border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Compliance Certification Services Above 1GHz High Frequency Substitution Measurement </div> <p> Company: Sony Project #: 14U17933 Date: 09/04/14 Test Engineer: R. Alegre Configuration: EUT w/ AC Adaptor and HS Mode: LTE13_5MHz_16QAM </p> <div style="display: flex; justify-content: space-around; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center; width: 20%;"> Chamber 5m Chamber B </div> <div style="border: 1px solid black; padding: 5px; text-align: center; width: 20%;"> Pre-amplifier T144 8449B </div> <div style="border: 1px solid black; padding: 5px; text-align: center; width: 20%;"> Filter Filter 1 </div> <div style="border: 1px solid black; padding: 5px; text-align: center; width: 20%;"> Limit Part 27 </div> </div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Mid Channel (782 MHz)</td> </tr> <tr> <td colspan="10">5MHz BW</td> </tr> <tr> <td>1.564</td> <td>-26.5</td> <td>H</td> <td>3.0</td> <td>30.7</td> <td>1.0</td> <td>-56.2</td> <td>-40.0</td> <td>-16.2</td> <td>RBW: 1MHz Span: 1559-1610 MHz</td> </tr> <tr> <td>1.564</td> <td>-50.4</td> <td>H</td> <td>3.0</td> <td>30.7</td> <td>1.0</td> <td>-80.1</td> <td>-50.0</td> <td>-30.1</td> <td>RBW: 700 Hz Span: 1559-1610 MHz</td> </tr> <tr> <td>1.564</td> <td>-27.7</td> <td>V</td> <td>3.0</td> <td>30.7</td> <td>1.0</td> <td>-57.4</td> <td>-40.0</td> <td>-17.4</td> <td>RBW: 1MHz Span: 1559-1610 MHz</td> </tr> <tr> <td>1.564</td> <td>-54.1</td> <td>V</td> <td>3.0</td> <td>30.7</td> <td>1.0</td> <td>-83.8</td> <td>-50.0</td> <td>-33.8</td> <td>RBW: 700 Hz Span: 1559-1610 MHz</td> </tr> </tbody> </table> <p>Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</p>	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Channel (782 MHz)										5MHz BW										1.564	-26.5	H	3.0	30.7	1.0	-56.2	-40.0	-16.2	RBW: 1MHz Span: 1559-1610 MHz	1.564	-50.4	H	3.0	30.7	1.0	-80.1	-50.0	-30.1	RBW: 700 Hz Span: 1559-1610 MHz	1.564	-27.7	V	3.0	30.7	1.0	-57.4	-40.0	-17.4	RBW: 1MHz Span: 1559-1610 MHz	1.564	-54.1	V	3.0	30.7	1.0	-83.8	-50.0	-33.8	RBW: 700 Hz Span: 1559-1610 MHz
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																														
Mid Channel (782 MHz)																																																																							
5MHz BW																																																																							
1.564	-26.5	H	3.0	30.7	1.0	-56.2	-40.0	-16.2	RBW: 1MHz Span: 1559-1610 MHz																																																														
1.564	-50.4	H	3.0	30.7	1.0	-80.1	-50.0	-30.1	RBW: 700 Hz Span: 1559-1610 MHz																																																														
1.564	-27.7	V	3.0	30.7	1.0	-57.4	-40.0	-17.4	RBW: 1MHz Span: 1559-1610 MHz																																																														
1.564	-54.1	V	3.0	30.7	1.0	-83.8	-50.0	-33.8	RBW: 700 Hz Span: 1559-1610 MHz																																																														

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17933
Date: 09/04/14
Test Engineer: R. Alegre
Configuration: EUT w/ AC Adaptor and HS
Mode: LTE13_5MHz_QPSK

Chamber	Pre-amplifier	Filter	Limit
5m Chamber B	T144 8449B	Filter 1	Part 27

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Channel (782 MHz)									
5MHz BW									
1.564	-21.6	H	3.0	30.7	1.0	-51.3	-40.0	-11.3	RBW: 1MHz Span: 1559-1610 MHz
1.564	-51.1	H	3.0	30.7	1.0	-80.8	-50.0	-30.8	RBW: 700 Hz Span: 1559-1610 MHz
1.564	-27.6	V	3.0	30.7	1.0	-57.3	-40.0	-17.3	RBW: 1MHz Span: 1559-1610 MHz
1.564	-53.3	V	3.0	30.7	1.0	-83.0	-50.0	-33.0	RBW: 700 Hz Span: 1559-1610 MHz

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

Band
 LTE13
 5MHz
 QPSK GPS
 band
 emission

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17933
Date: 09/04/14
Test Engineer: R. Alegre
Configuration: EUT w/ AC Adaptor and HS
Mode: LTE13_10MHz_16QAM

Chamber
 5m Chamber B

Pre-amplifier
 T144 8449B

Filter
 Filter 1

Limit
 Part 27

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Channel (782 MHz)									
10MHz BW									
1.564	-25.4	H	3.0	30.7	1.0	-55.1	-40.0	-15.1	RBW: 1MHz Span: 1559-1610 MHz
1.564	-48.9	H	3.0	30.7	1.0	-78.6	-50.0	-28.6	RBW: 700 Hz Span: 1559-1610 MHz
1.564	-25.7	V	3.0	30.7	1.0	-55.4	-40.0	-15.4	RBW: 1MHz Span: 1559-1610 MHz
1.564	-49.9	V	3.0	30.7	1.0	-79.6	-50.0	-29.6	RBW: 700 Hz Span: 1559-1610 MHz

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

Band
 LTE13
 10MHz
 16QAM
 GPS band
 emission

	Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Band	Company: Sony Project #: 14U17933 Date: 09/04/14 Test Engineer: R. Alegre Configuration: EUT w/ AC Adaptor and HS Mode: LTE13_10MHz_QPSK									
LTE13	Chamber		Pre-amplifier		Filter		Limit			
10MHz	5m Chamber B		T144 8449B		Filter 1		Part 27			
QPSK GPS band emission	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Mid Channel (782 MHz)									
	10MHz BW									
	1.564	-24.9	H	3.0	30.7	1.0	-54.6	-40.0	-14.6	RBW: 1MHz Span: 1559-1610 MHz
	1.564	-48.4	H	3.0	30.7	1.0	-78.1	-50.0	-28.1	RBW: 700 Hz Span: 1559-1610 MHz
	1.564	-25.7	V	3.0	30.7	1.0	-55.4	-40.0	-15.4	RBW: 1MHz Span: 1559-1610 MHz
	1.564	-50.1	V	3.0	30.7	1.0	-79.8	-50.0	-29.8	RBW: 700 Hz Span: 1559-1610 MHz
	Rev. 03.03.09									
	Note: No other emissions were detected above the system noise floor.									

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE7 20MHz QPSK								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 20MHz 16QAM	Low Ch, 2510.0MHz									
	5.020	-28.4	V	3.0	34.8	1.0	-62.2	-25.0	-37.2	
	7.530	-24.0	V	3.0	34.9	1.0	-58.0	-25.0	-33.0	
	10.040	-22.4	V	3.0	35.3	1.0	-56.8	-25.0	-31.8	
	5.020	-28.0	H	3.0	34.8	1.0	-61.7	-25.0	-36.7	
	7.530	-23.0	H	3.0	34.9	1.0	-56.9	-25.0	-31.9	
	10.040	-21.0	H	3.0	35.3	1.0	-55.3	-25.0	-30.3	
	Mid Ch, 2535.0MHz									
	5.070	-25.8	V	3.0	34.7	1.0	-59.6	-25.0	-34.6	
	7.605	-23.7	V	3.0	34.9	1.0	-57.6	-25.0	-32.6	
	10.140	-22.1	V	3.0	35.3	1.0	-56.4	-25.0	-31.4	
	5.070	-19.2	H	3.0	34.7	1.0	-52.9	-25.0	-27.9	
7.605	-22.8	H	3.0	34.9	1.0	-56.7	-25.0	-31.7		
10.140	-21.5	H	3.0	35.3	1.0	-55.8	-25.0	-30.8		
High Ch, 2560.0MHz										
5.120	-20.6	V	3.0	34.7	1.0	-54.3	-25.0	-29.3		
7.680	-23.0	V	3.0	35.0	1.0	-57.0	-25.0	-32.0		
10.240	-21.9	V	3.0	35.2	1.0	-56.2	-25.0	-31.2		
5.120	-24.1	H	3.0	34.7	1.0	-57.8	-25.0	-32.8		
7.680	-22.2	H	3.0	35.0	1.0	-56.1	-25.0	-31.1		
10.240	-21.2	H	3.0	35.2	1.0	-55.5	-25.0	-30.5		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE7 20MHz 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7	Low Ch, 2510.0MHz									
	5.020	-28.6	V	3.0	34.8	1.0	-62.4	-25.0	-37.4	
	7.530	-24.0	V	3.0	34.9	1.0	-57.9	-25.0	-32.9	
20MHz	10.040									
	5.020	-27.6	H	3.0	34.8	1.0	-61.3	-25.0	-36.3	
	7.530	-23.0	H	3.0	34.9	1.0	-56.9	-25.0	-31.9	
QPSK	10.040									
	5.070	-26.3	V	3.0	34.7	1.0	-60.0	-25.0	-35.0	
	7.605	-23.6	V	3.0	34.9	1.0	-57.6	-25.0	-32.6	
Mid Ch, 2535.0MHz										
	10.140	-22.1	V	3.0	35.3	1.0	-56.4	-25.0	-31.4	
	5.070	-20.4	H	3.0	34.7	1.0	-54.2	-25.0	-29.2	
	7.605	-22.8	H	3.0	34.9	1.0	-56.7	-25.0	-31.7	
	10.140	-21.4	H	3.0	35.3	1.0	-55.7	-25.0	-30.7	
High Ch, 2560.0MHz										
	5.120	-21.1	V	3.0	34.7	1.0	-54.8	-25.0	-29.8	
	7.680	-23.0	V	3.0	35.0	1.0	-57.0	-25.0	-32.0	
	10.240	-21.8	V	3.0	35.2	1.0	-56.1	-25.0	-31.1	
	5.120	-25.3	H	3.0	34.7	1.0	-59.0	-25.0	-34.0	
	7.680	-22.1	H	3.0	35.0	1.0	-56.1	-25.0	-31.1	
	10.240	-21.2	H	3.0	35.2	1.0	-55.5	-25.0	-30.5	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE7 15MHz 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7	Low Ch, 2507.5MHz									
	5.015	-21.9	V	3.0	34.8	1.0	-55.7	-25.0	-30.7	
	7.523	-21.4	V	3.0	34.9	1.0	-55.4	-25.0	-30.4	
15MHz	10.030	-22.4	V	3.0	35.3	1.0	-56.7	-25.0	-31.7	
	5.015	-25.4	H	3.0	34.8	1.0	-59.2	-25.0	-34.2	
16QAM	7.523	-22.1	H	3.0	34.9	1.0	-56.0	-25.0	-31.0	
	10.030	-21.6	H	3.0	35.3	1.0	-55.9	-25.0	-30.9	
	Mid Ch, 2535.0MHz									
	5.070	-22.1	V	3.0	34.7	1.0	-55.8	-25.0	-30.8	
	7.605	-22.9	V	3.0	34.9	1.0	-56.9	-25.0	-31.9	
	10.140	-22.3	V	3.0	35.3	1.0	-56.6	-25.0	-31.6	
	5.070	-28.3	H	3.0	34.7	1.0	-62.0	-25.0	-37.0	
	7.605	-22.7	H	3.0	34.9	1.0	-56.7	-25.0	-31.7	
	10.140	-21.4	H	3.0	35.3	1.0	-55.7	-25.0	-30.7	
	High Ch, 2562.5MHz									
	5.125	-21.1	V	3.0	34.7	1.0	-54.9	-25.0	-29.9	
	7.688	-20.0	V	3.0	35.0	1.0	-54.0	-25.0	-29.0	
	10.250	-21.8	V	3.0	35.2	1.0	-56.1	-25.0	-31.1	
	5.125	-26.4	H	3.0	34.7	1.0	-60.1	-25.0	-35.1	
	7.688	-20.7	H	3.0	35.0	1.0	-54.6	-25.0	-29.6	
	10.250	-21.3	H	3.0	35.2	1.0	-55.6	-25.0	-30.6	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE7 15MHz QPSK								
		Chamber	Pre-amplifier		Filter		Limit			
		3m Chamber	T34 8449B		Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7	Low Ch, 2507.5MHz									
	5.015	-21.2	V	3.0	34.8	1.0	-54.9	-25.0	-29.9	
15MHz	7.523	-20.9	V	3.0	34.9	1.0	-54.9	-25.0	-29.9	
	10.030	-22.4	V	3.0	35.3	1.0	-56.8	-25.0	-31.8	
QPSK	5.015	-24.0	H	3.0	34.8	1.0	-57.7	-25.0	-32.7	
	7.523	-22.8	H	3.0	34.9	1.0	-56.7	-25.0	-31.7	
	10.030	-21.6	H	3.0	35.3	1.0	-55.9	-25.0	-30.9	
	Mid Ch, 2535.0MHz									
	5.070	-21.3	V	3.0	34.7	1.0	-55.0	-25.0	-30.0	
	7.605	-22.5	V	3.0	34.9	1.0	-56.5	-25.0	-31.5	
	10.140	-22.2	V	3.0	35.3	1.0	-56.5	-25.0	-31.5	
	5.070	-28.7	H	3.0	34.7	1.0	-62.5	-25.0	-37.5	
	7.605	-22.5	H	3.0	34.9	1.0	-56.4	-25.0	-31.4	
	10.140	-21.5	H	3.0	35.3	1.0	-55.7	-25.0	-30.7	
	High Ch, 2562.5MHz									
	5.125	-20.3	V	3.0	34.7	1.0	-54.0	-25.0	-29.0	
	7.688	-20.3	V	3.0	35.0	1.0	-54.3	-25.0	-29.3	
	10.250	-21.8	V	3.0	35.2	1.0	-56.0	-25.0	-31.0	
	5.125	-25.9	H	3.0	34.7	1.0	-59.6	-25.0	-34.6	
	7.688	-20.1	H	3.0	35.0	1.0	-54.1	-25.0	-29.1	
	10.250	-21.2	H	3.0	35.2	1.0	-55.4	-25.0	-30.4	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE7 10MHz 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 10MHz 16QAM	Low Ch, 2505.0MHz									
	5.010	-21.5	V	3.0	34.8	1.0	-55.3	-25.0	-30.3	
	7.515	-22.7	V	3.0	34.9	1.0	-56.6	-25.0	-31.6	
	10.020	-23.3	V	3.0	35.4	1.0	-57.7	-25.0	-32.7	
	5.010	-28.5	H	3.0	34.8	1.0	-62.3	-25.0	-37.3	
	7.515	-24.1	H	3.0	34.9	1.0	-58.1	-25.0	-33.1	
	10.020	-22.5	H	3.0	35.4	1.0	-56.9	-25.0	-31.9	
	Mid Ch, 2535.0MHz									
	5.070	-22.5	V	3.0	34.7	1.0	-56.3	-25.0	-31.3	
	7.605	-22.9	V	3.0	34.9	1.0	-56.9	-25.0	-31.9	
	10.140	-22.1	V	3.0	35.3	1.0	-56.4	-25.0	-31.4	
	5.070	-23.2	H	3.0	34.7	1.0	-56.9	-25.0	-31.9	
7.605	-22.7	H	3.0	34.9	1.0	-56.7	-25.0	-31.7		
10.140	-21.6	H	3.0	35.3	1.0	-55.9	-25.0	-30.9		
High Ch, 2565.0MHz										
5.130	-22.5	V	3.0	34.7	1.0	-56.2	-25.0	-31.2		
7.695	-22.9	V	3.0	35.0	1.0	-56.8	-25.0	-31.8		
10.260	-21.7	V	3.0	35.2	1.0	-55.9	-25.0	-30.9		
5.130	-21.4	H	3.0	34.7	1.0	-55.2	-25.0	-30.2		
7.695	-17.8	H	3.0	35.0	1.0	-51.8	-25.0	-26.8		
10.260	-21.2	H	3.0	35.2	1.0	-55.4	-25.0	-30.4		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE7 10MHz QPSK								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T34 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 10MHz QPSK	Low Ch, 2505.0MHz									
	5.010	-21.0	V	3.0	34.8	1.0	-54.8	-25.0	-29.8	
	7.515	-21.0	V	3.0	34.9	1.0	-54.9	-25.0	-29.9	
	10.020	-23.3	V	3.0	35.4	1.0	-57.7	-25.0	-32.7	
	5.010	-29.0	H	3.0	34.8	1.0	-62.8	-25.0	-37.8	
	7.515	-24.2	H	3.0	34.9	1.0	-58.2	-25.0	-33.2	
	10.020	-22.6	H	3.0	35.4	1.0	-56.9	-25.0	-31.9	
	Mid Ch, 2535.0MHz									
	5.070	-22.2	V	3.0	34.7	1.0	-55.9	-25.0	-30.9	
	7.605	-22.9	V	3.0	34.9	1.0	-56.9	-25.0	-31.9	
	10.140	-22.2	V	3.0	35.3	1.0	-56.5	-25.0	-31.5	
	5.070	-22.6	H	3.0	34.7	1.0	-56.3	-25.0	-31.3	
7.605	-22.8	H	3.0	34.9	1.0	-56.8	-25.0	-31.8		
10.140	-21.5	H	3.0	35.3	1.0	-55.8	-25.0	-30.8		
High Ch, 2565.0MHz										
5.130	-21.4	V	3.0	34.7	1.0	-55.2	-25.0	-30.2		
7.695	-23.1	V	3.0	35.0	1.0	-57.1	-25.0	-32.1		
10.260	-21.6	V	3.0	35.2	1.0	-55.9	-25.0	-30.9		
5.130	-21.7	H	3.0	34.7	1.0	-55.4	-25.0	-30.4		
7.695	-21.5	H	3.0	35.0	1.0	-55.4	-25.0	-30.4		
10.260	-21.2	H	3.0	35.2	1.0	-55.4	-25.0	-30.4		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE7 5MHz 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 5MHz 16QAM	Low Ch, 2502.5MHz									
	5.005	-23.0	V	3.0	34.8	1.0	-56.7	-25.0	-31.7	
	7.508	-20.1	V	3.0	34.9	1.0	-54.0	-25.0	-29.0	
	10.010	-22.5	V	3.0	35.4	1.0	-56.9	-25.0	-31.9	
	5.005	-26.4	H	3.0	34.8	1.0	-60.2	-25.0	-35.2	
	7.508	-20.4	H	3.0	34.9	1.0	-54.3	-25.0	-29.3	
	10.010	-21.6	H	3.0	35.4	1.0	-56.0	-25.0	-31.0	
	Mid Ch, 2535.0MHz									
	5.070	-22.2	V	3.0	34.7	1.0	-55.9	-25.0	-30.9	
	7.605	-21.6	V	3.0	34.9	1.0	-55.5	-25.0	-30.5	
	10.140	-22.3	V	3.0	35.3	1.0	-56.6	-25.0	-31.6	
	5.070	-18.4	H	3.0	34.7	1.0	-52.2	-25.0	-27.2	
	7.605	-19.8	H	3.0	34.9	1.0	-53.8	-25.0	-28.8	
	10.140	-21.5	H	3.0	35.3	1.0	-55.8	-25.0	-30.8	
	High Ch, 2567.5MHz									
	5.135	-24.2	V	3.0	34.7	1.0	-57.9	-25.0	-32.9	
	7.703	-23.0	V	3.0	35.0	1.0	-56.9	-25.0	-31.9	
	10.270	-21.8	V	3.0	35.2	1.0	-56.0	-25.0	-31.0	
5.135	-21.2	H	3.0	34.7	1.0	-54.9	-25.0	-29.9		
7.703	-20.9	H	3.0	35.0	1.0	-54.9	-25.0	-29.9		
10.270	-21.1	H	3.0	35.2	1.0	-55.3	-25.0	-30.3		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										