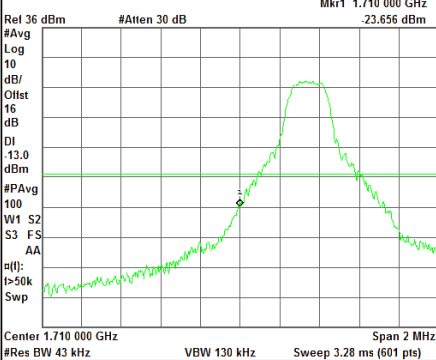
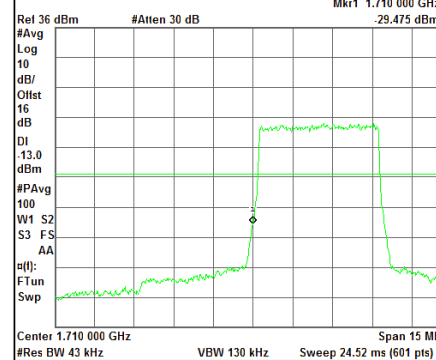
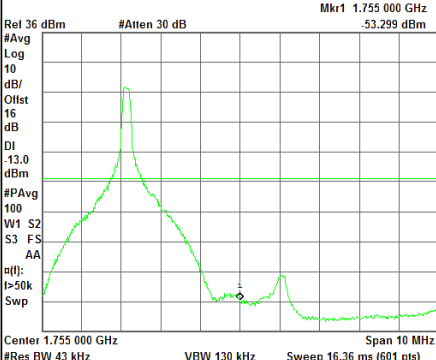
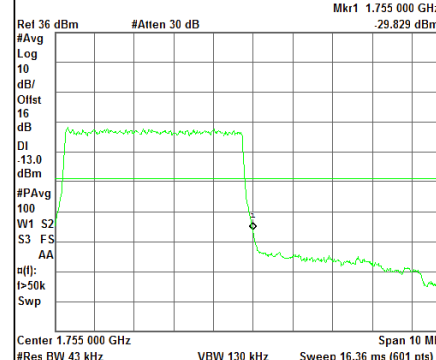
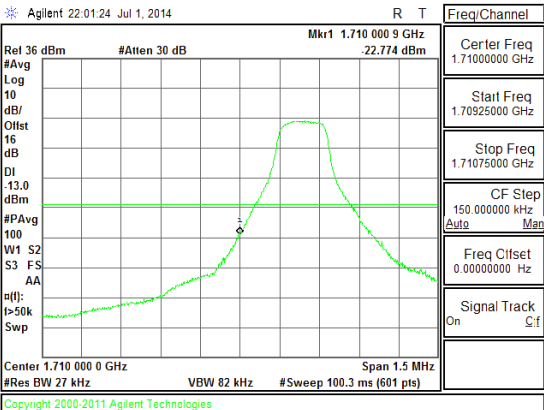
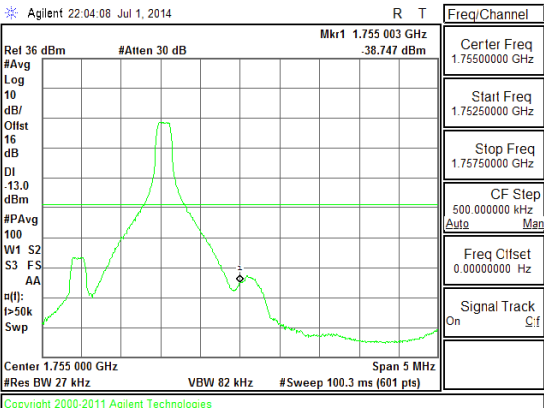
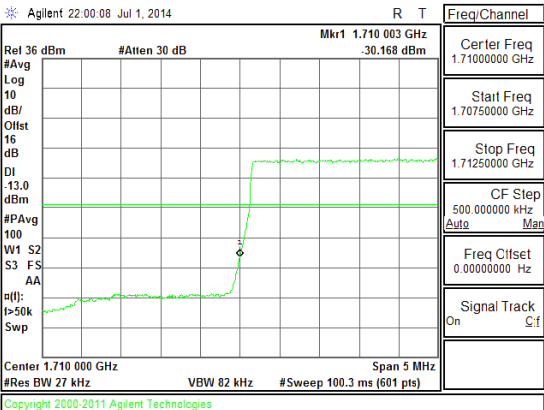
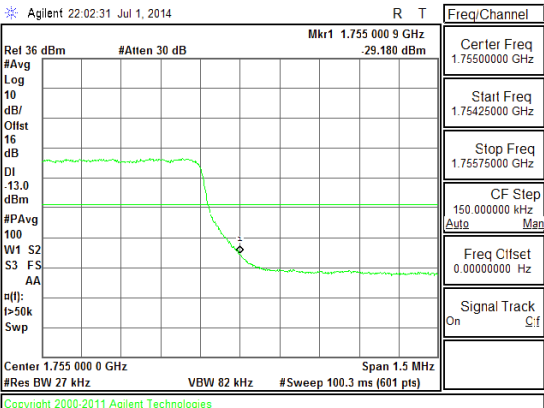
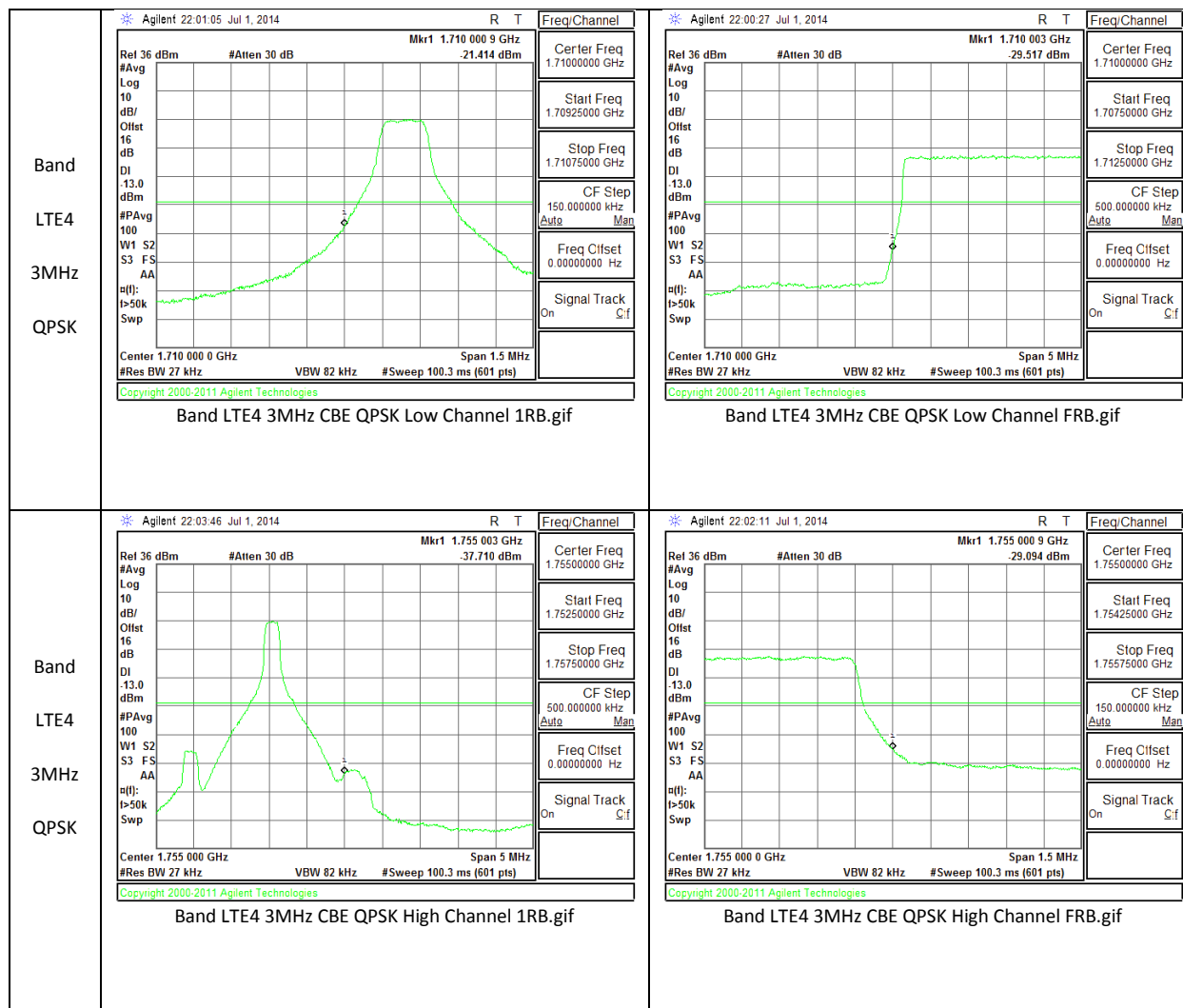
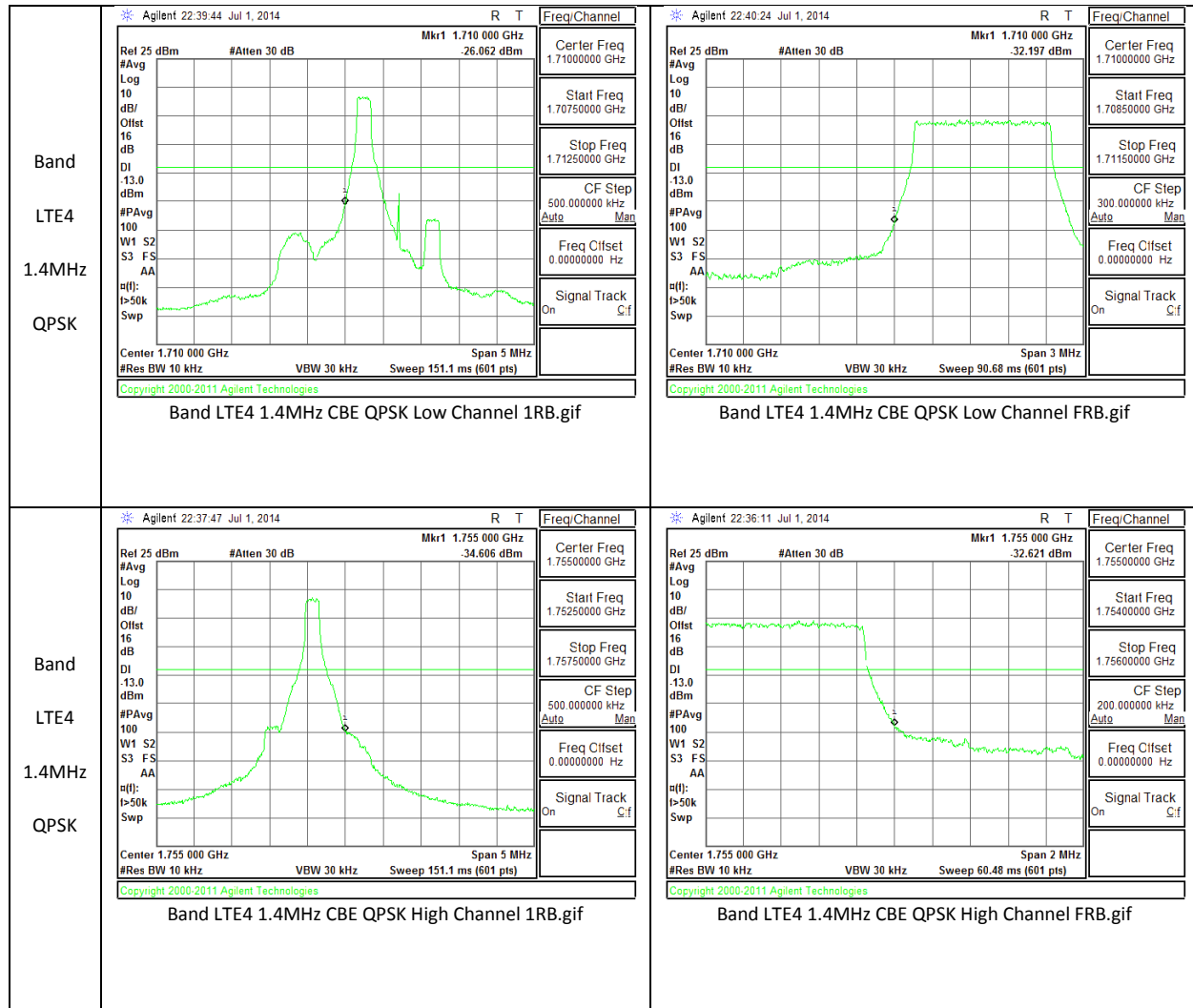


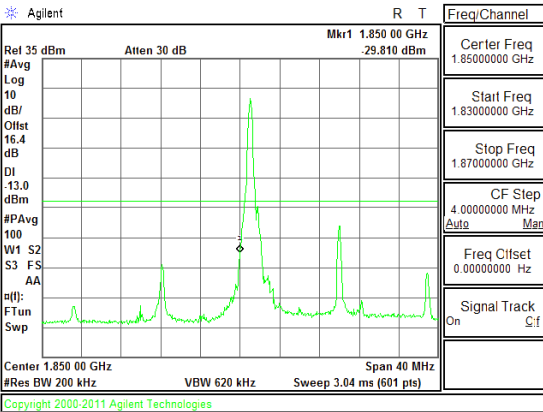
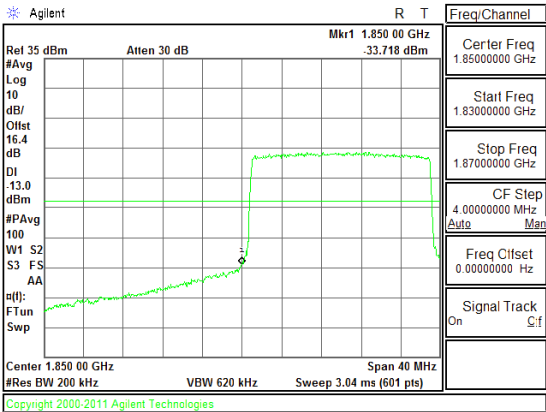
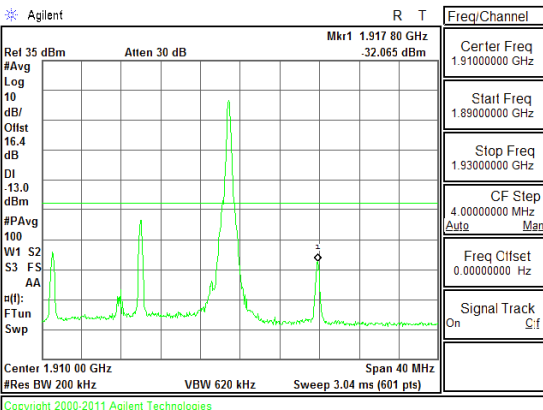
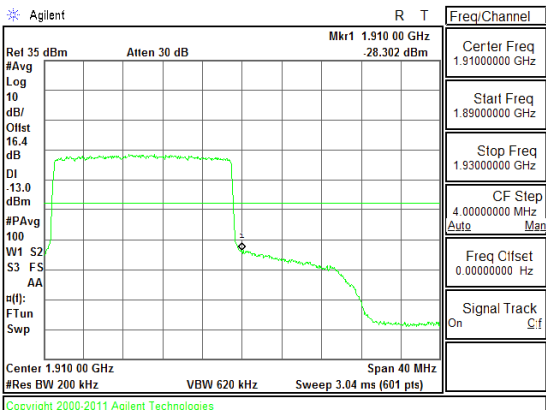
Band LTE4 5MHz QPSK	Agilent 19:08:42 Jul 1, 2014  Center 1.710 000 GHz #Res BW 43 kHz VBW 130 kHz Sweep 3.28 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE4 5MHz CBE QPSK Low Channel 1RB.gif	Agilent 19:04:43 Jul 1, 2014  Center 1.710 000 GHz #Res BW 43 kHz VBW 130 kHz Sweep 24.52 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE4 5MHz CBE QPSK Low Channel FRB.gif
Band LTE4 5MHz QPSK	Agilent 19:11:33 Jul 1, 2014  Center 1.755 000 GHz #Res BW 43 kHz VBW 130 kHz Sweep 16.36 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE4 5MHz CBE QPSK High Channel 1RB.gif	Agilent 19:09:45 Jul 1, 2014  Center 1.755 000 GHz #Res BW 43 kHz VBW 130 kHz Sweep 16.36 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE4 5MHz CBE QPSK High Channel FRB.gif

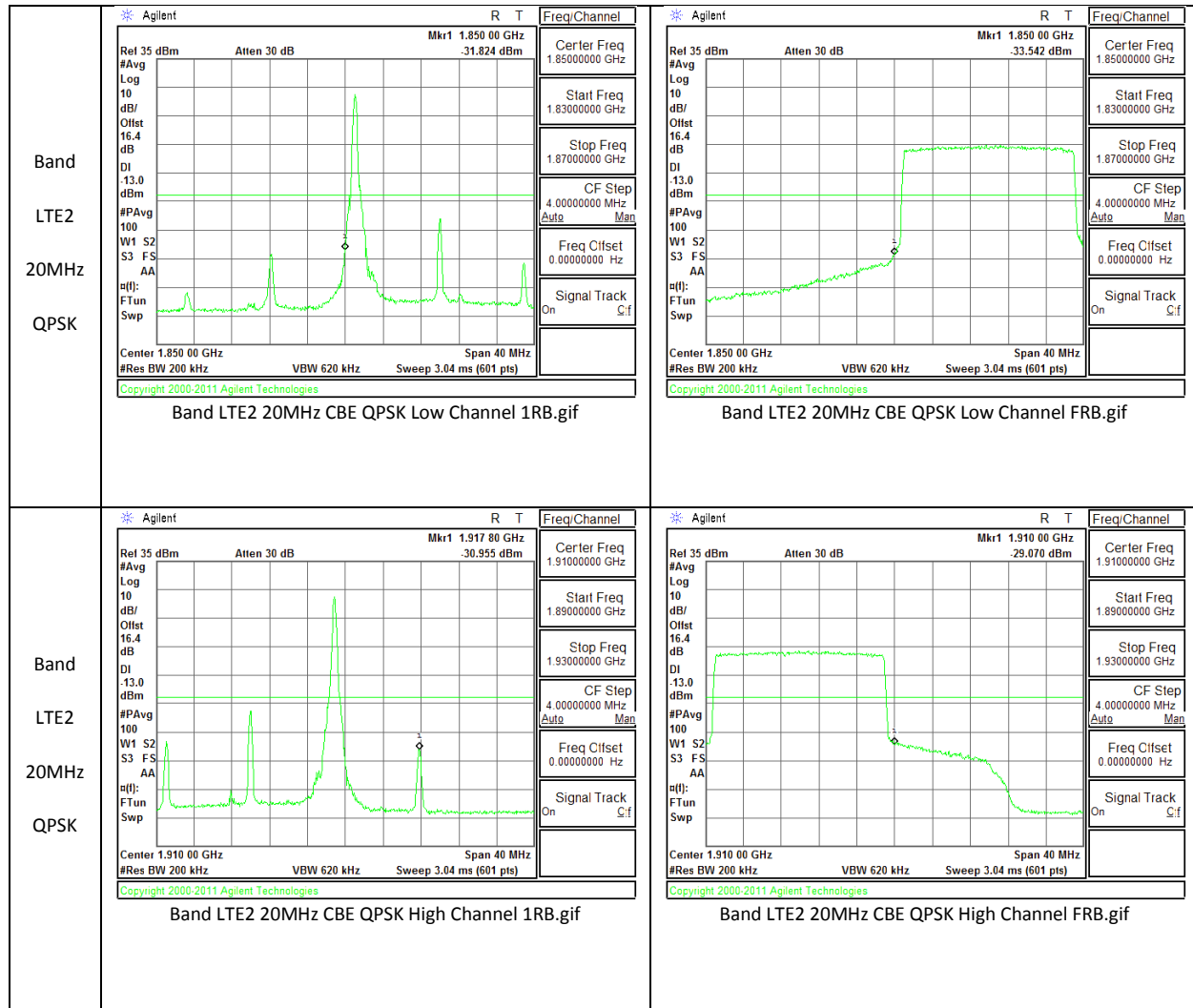
Band LTE4 3MHz 16QAM	 Agilent 22:01:24 Jul 1, 2014 Rel 36 dBm #Atten 30 dB Mkr1 1.710 000 9 GHz -22.774 dBm Center Freq 1.71000000 GHz Start Freq 1.70925000 GHz Stop Freq 1.71075000 GHz CF Step 150.000000 kHz Freq Cfilset 0.00000000 Hz Signal Track On Center 1.710 000 0 GHz Span 1.5 MHz VBW 82 kHz #Sweep 100.3 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE4 3MHz CBE 16QAM Low Channel 1RB.gif
Band LTE4 3MHz 16QAM	 Agilent 22:04:08 Jul 1, 2014 Rel 36 dBm #Atten 30 dB Mkr1 1.755 000 9 GHz -38.747 dBm Center Freq 1.75500000 GHz Start Freq 1.75250000 GHz Stop Freq 1.75750000 GHz CF Step 500.000000 kHz Freq Cfilset 0.00000000 Hz Signal Track On Center 1.755 000 0 GHz Span 5 MHz VBW 82 kHz #Sweep 100.3 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE4 3MHz CBE 16QAM High Channel 1RB.gif
 Agilent 22:00:08 Jul 1, 2014 Rel 36 dBm #Atten 30 dB Mkr1 1.710 000 3 GHz -30.168 dBm Center Freq 1.71000000 GHz Start Freq 1.70750000 GHz Stop Freq 1.71250000 GHz CF Step 500.000000 kHz Freq Cfilset 0.00000000 Hz Signal Track On Center 1.710 000 0 GHz Span 5 MHz VBW 82 kHz #Sweep 100.3 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE4 3MHz CBE 16QAM Low Channel FRB.gif	 Agilent 22:02:31 Jul 1, 2014 Rel 36 dBm #Atten 30 dB Mkr1 1.755 000 9 GHz -29.180 dBm Center Freq 1.75500000 GHz Start Freq 1.75425000 GHz Stop Freq 1.75575000 GHz CF Step 150.000000 kHz Freq Cfilset 0.00000000 Hz Signal Track On Center 1.755 000 0 GHz Span 1.5 MHz VBW 82 kHz #Sweep 100.3 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE4 3MHz CBE 16QAM High Channel FRB.gif

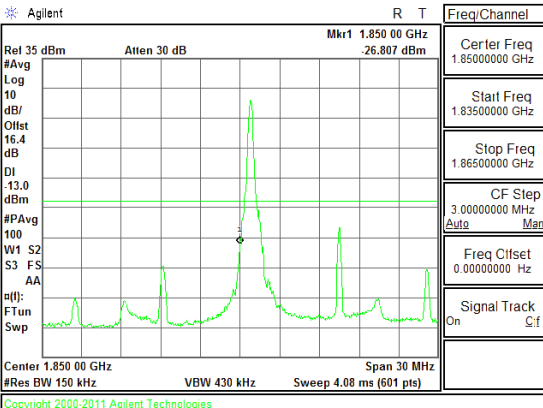
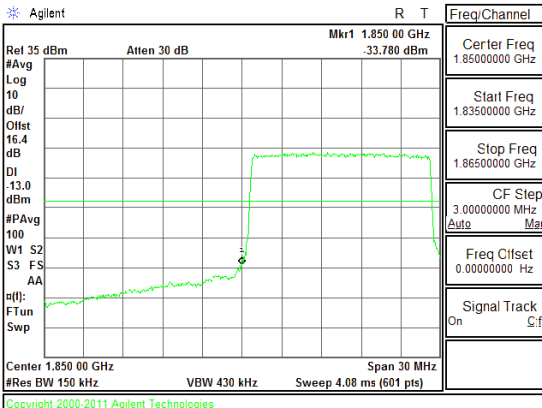
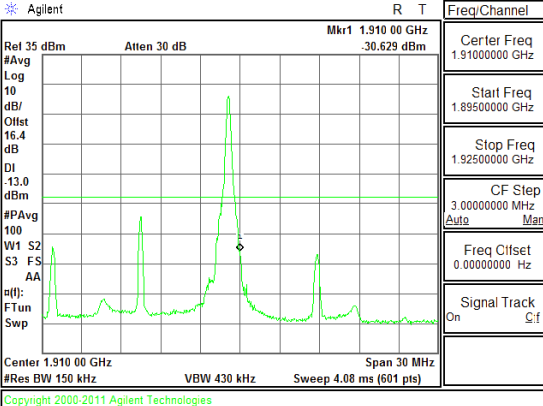
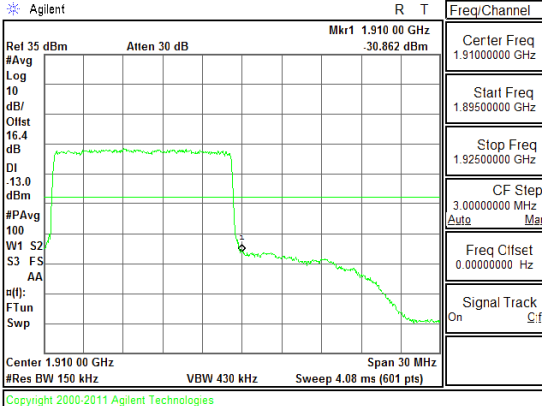


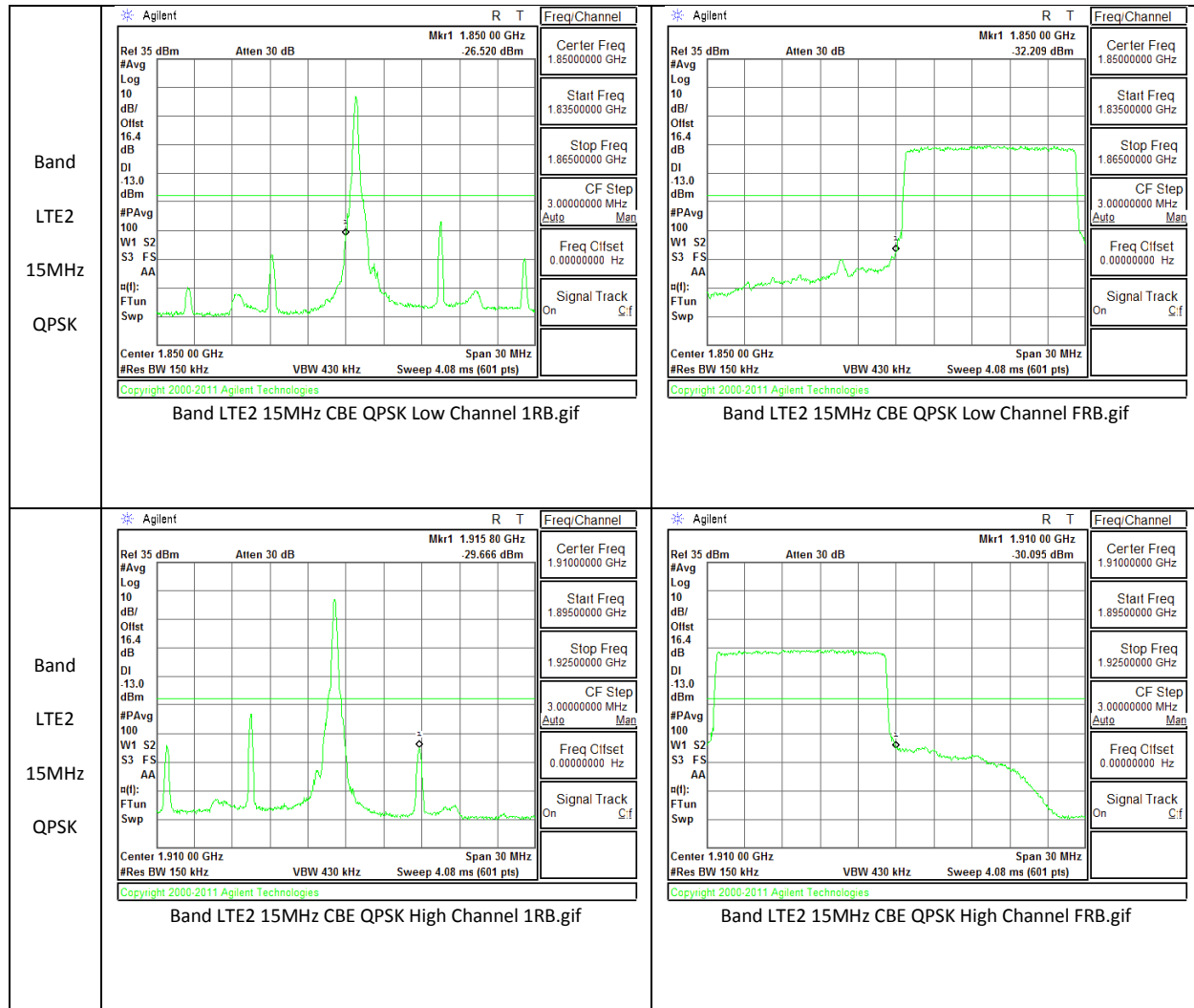
Band LTE4 1.4MHz 16QAM	Agilent 22:39:13 Jul 1, 2014 Rel 25 dBm #Atten 30 dB Mkr1 1.710 000 GHz .27.667 dBm Center 1.710 000 GHz Span 5 MHz VBW 30 kHz Sweep 151.1 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE4 1.4MHz CBE 16QAM Low Channel 1RB.gif
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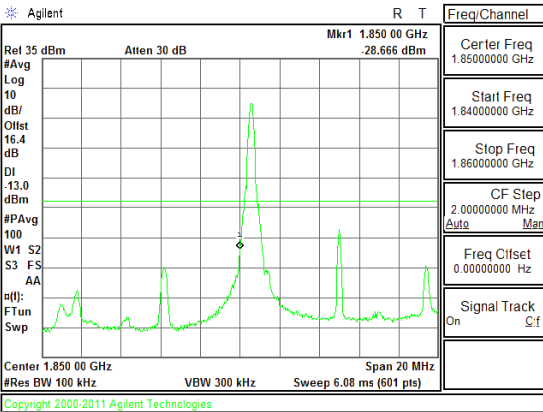
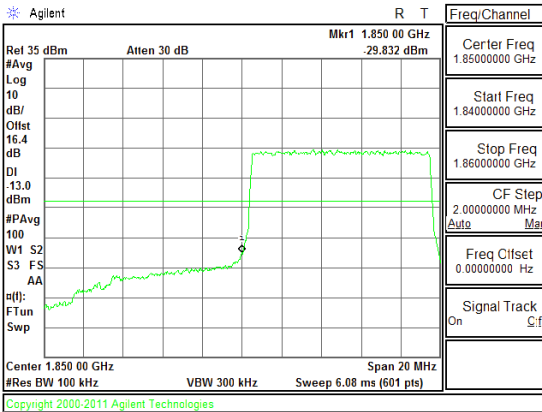
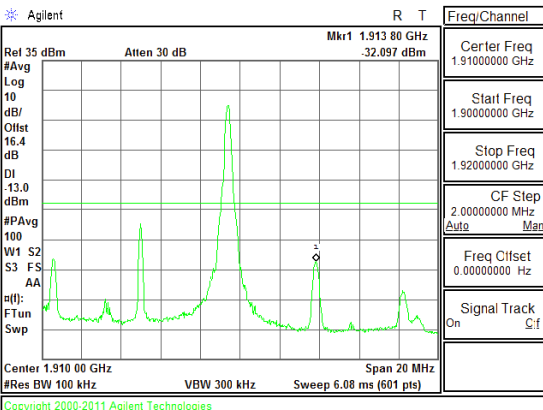
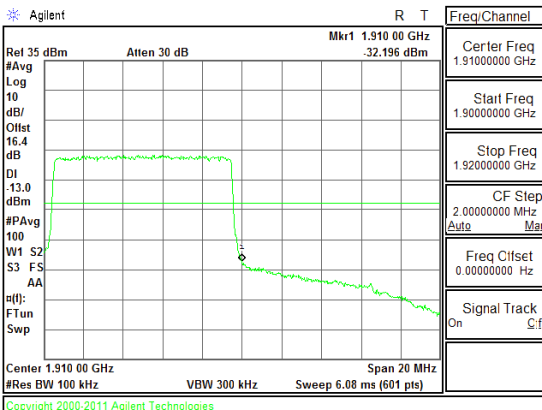


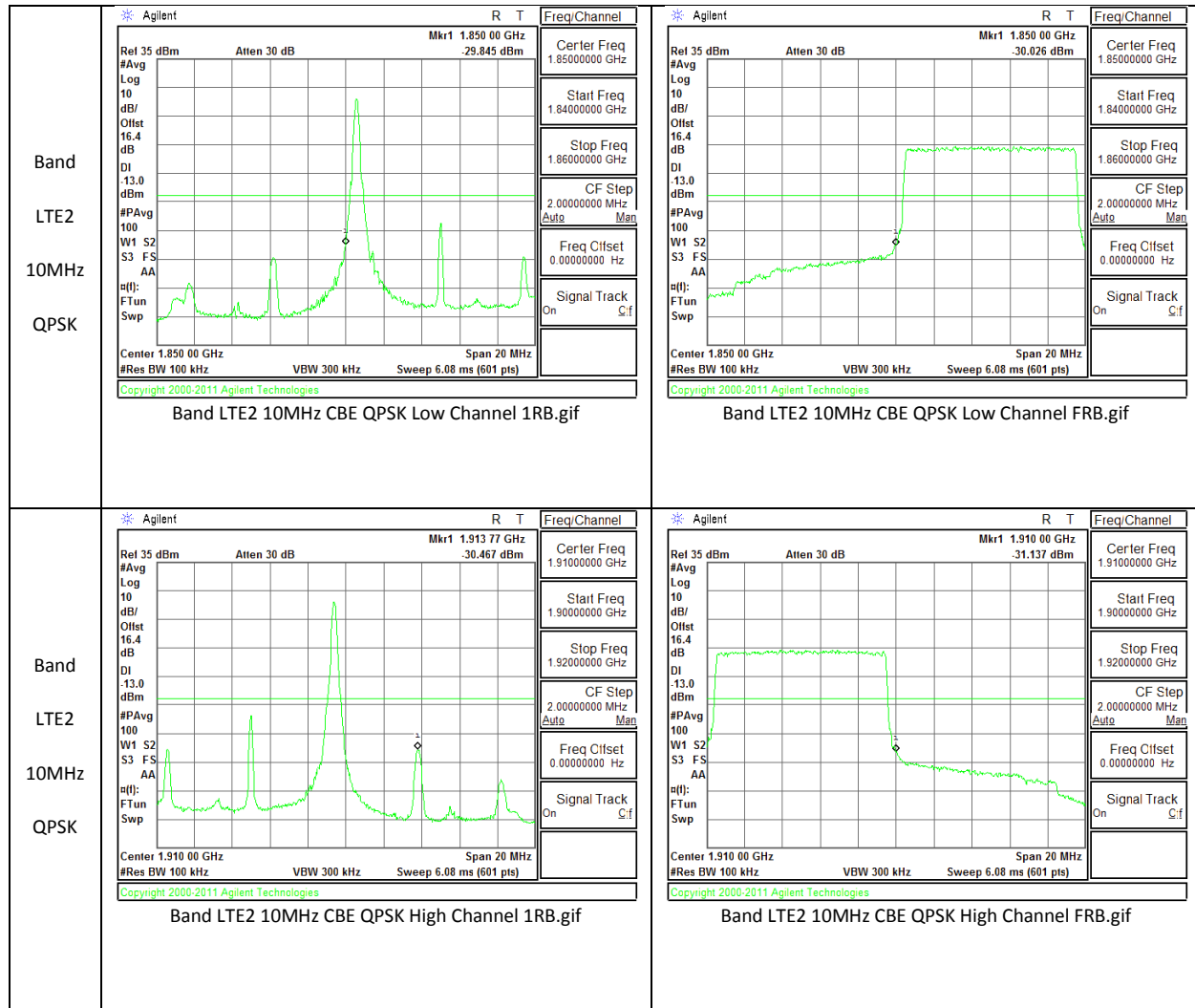
Band LTE2 20MHz 16QAM	 Band LTE2 20MHz CBE 16QAM Low Channel 1RB.gif	 Band LTE2 20MHz CBE 16QAM Low Channel FRB.gif
Band LTE2 20MHz 16QAM	 Band LTE2 20MHz CBE 16QAM High Channel 1RB.gif	 Band LTE2 20MHz CBE 16QAM High Channel FRB.gif

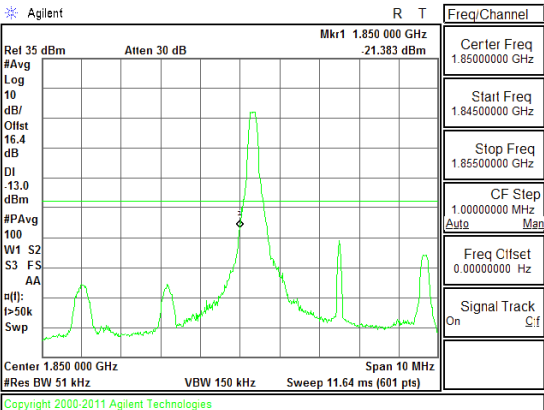
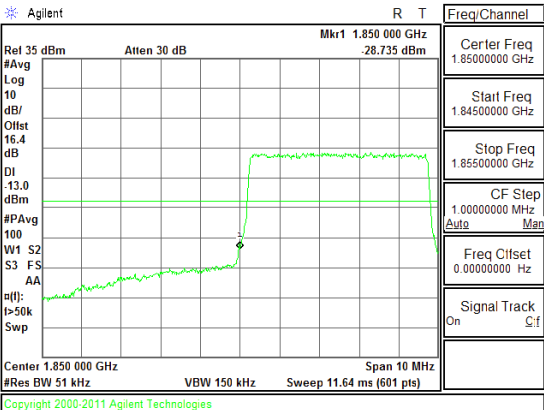
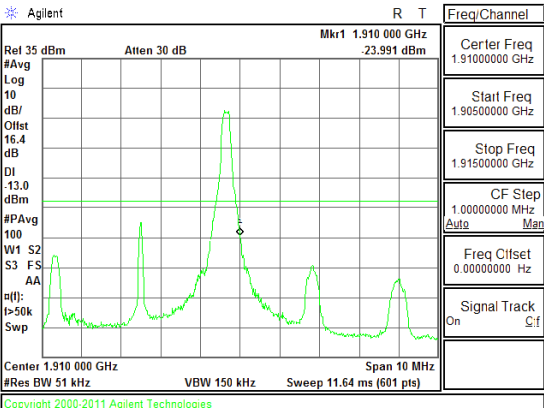
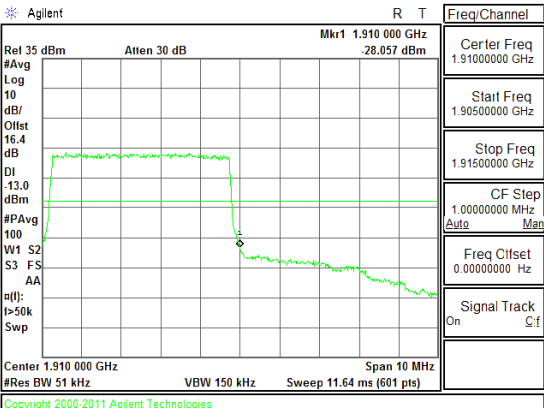


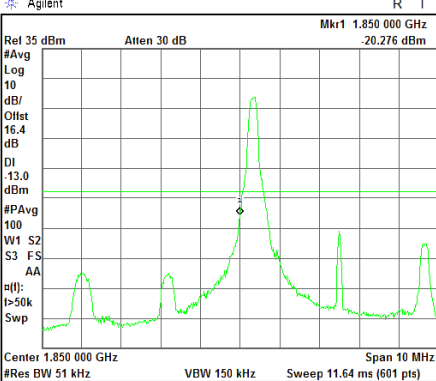
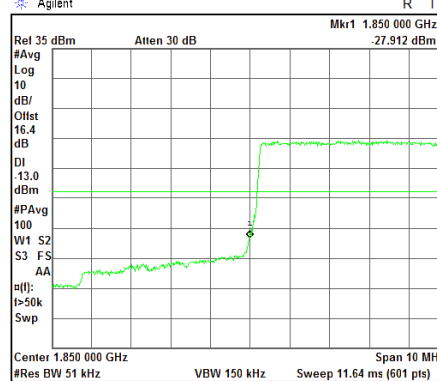
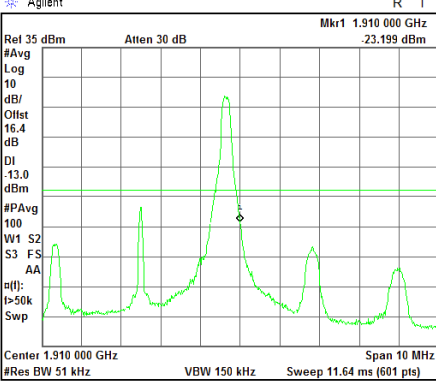
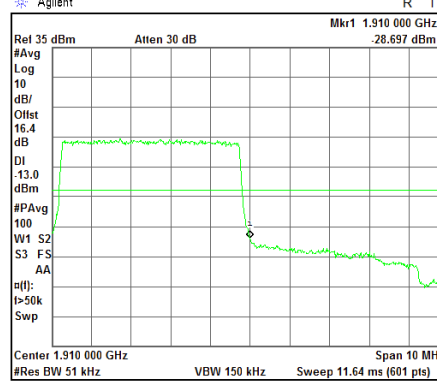
Band LTE2 15MHz 16QAM	 Band LTE2 15MHz CBE 16QAM Low Channel 1RB.gif	 Band LTE2 15MHz CBE 16QAM Low Channel FRB.gif
Band LTE2 15MHz 16QAM	 Band LTE2 15MHz CBE 16QAM High Channel 1RB.gif	 Band LTE2 15MHz CBE 16QAM High Channel FRB.gif



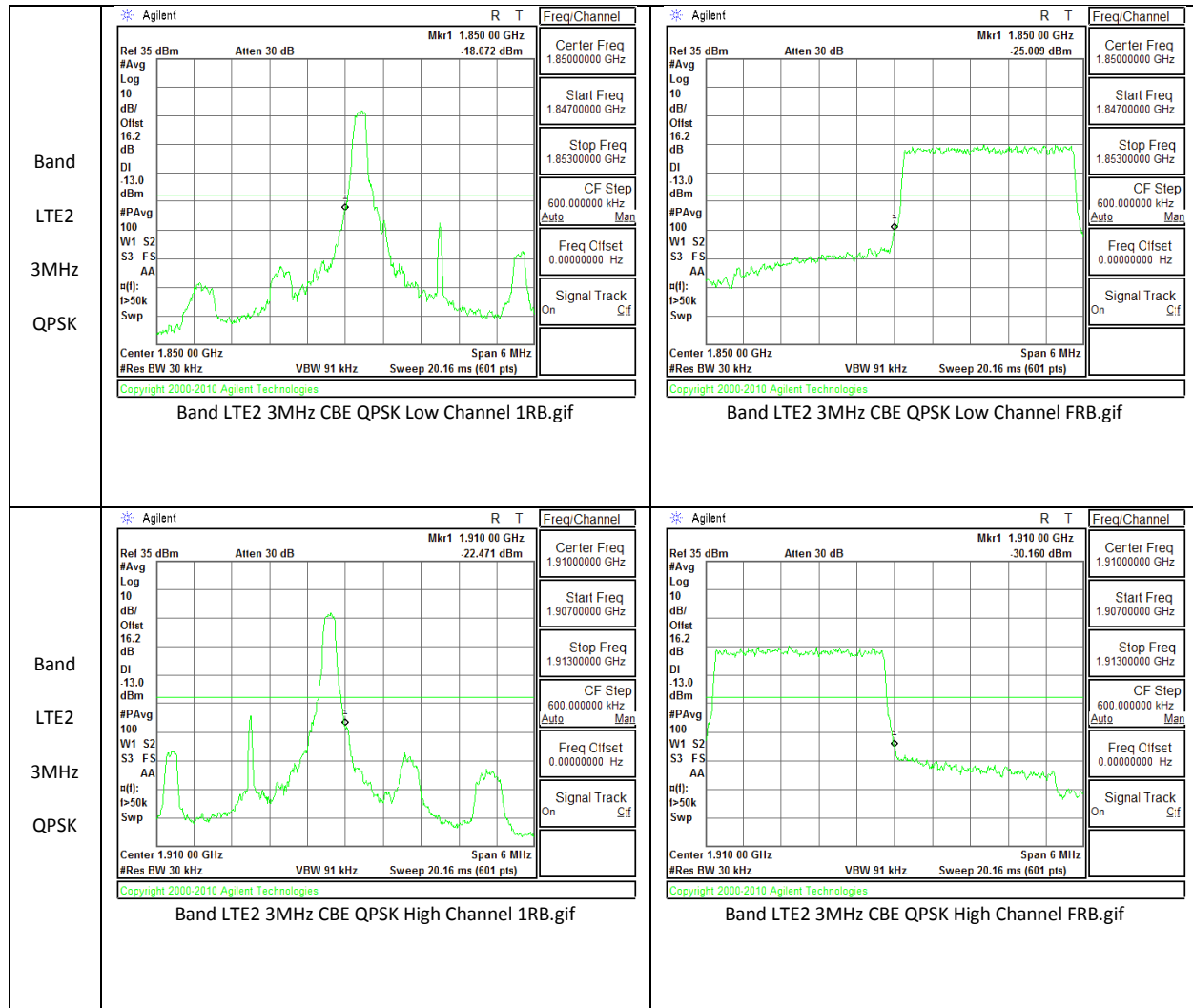
Band LTE2 10MHz 16QAM	 Band LTE2 10MHz CBE 16QAM Low Channel 1RB.gif	 Band LTE2 10MHz CBE 16QAM Low Channel FRB.gif
Band LTE2 10MHz 16QAM	 Band LTE2 10MHz CBE 16QAM High Channel 1RB.gif	 Band LTE2 10MHz CBE 16QAM High Channel FRB.gif

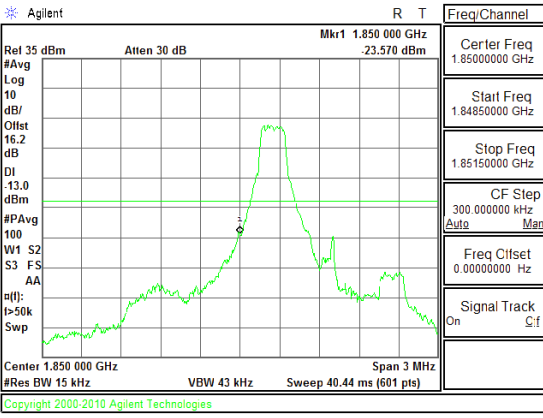
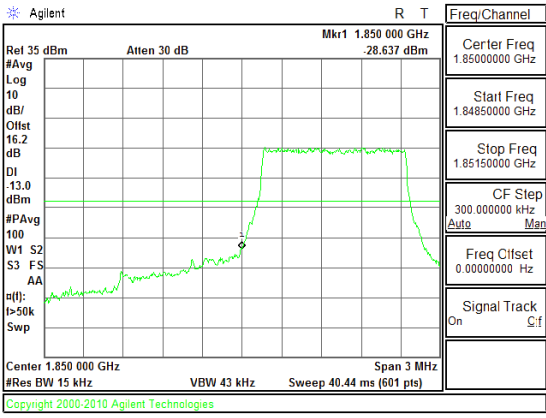
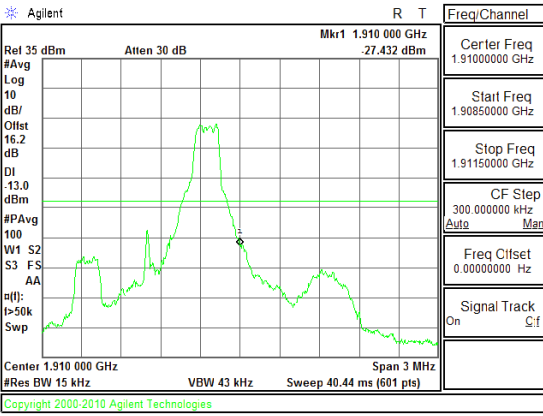
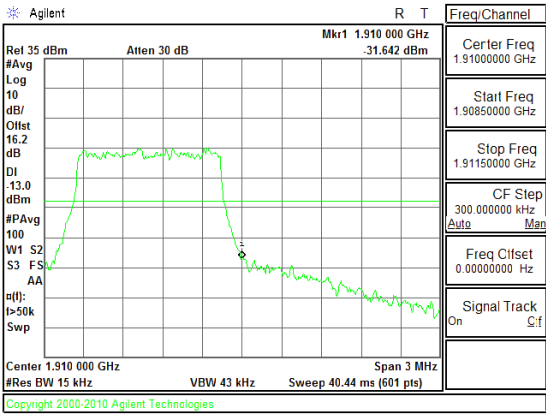


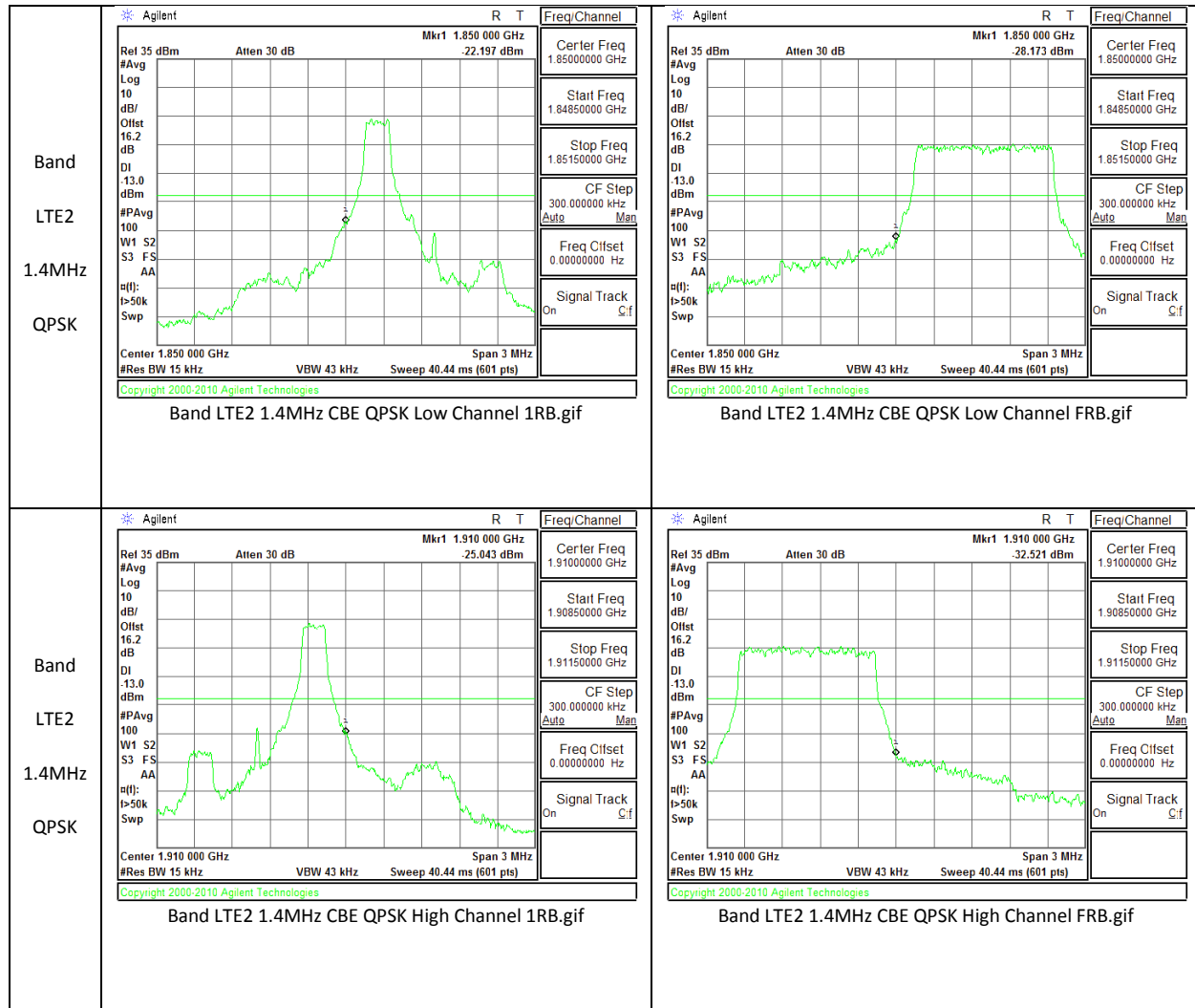
Band LTE2 5MHz 16QAM	 Copyright 2000-2011 Agilent Technologies Band LTE2 5MHz CBE 16QAM Low Channel 1RB.gif	 Copyright 2000-2011 Agilent Technologies Band LTE2 5MHz CBE 16QAM Low Channel FRB.gif
Band LTE2 5MHz 16QAM	 Copyright 2000-2011 Agilent Technologies Band LTE2 5MHz CBE 16QAM High Channel 1RB.gif	 Copyright 2000-2011 Agilent Technologies Band LTE2 5MHz CBE 16QAM High Channel FRB.gif

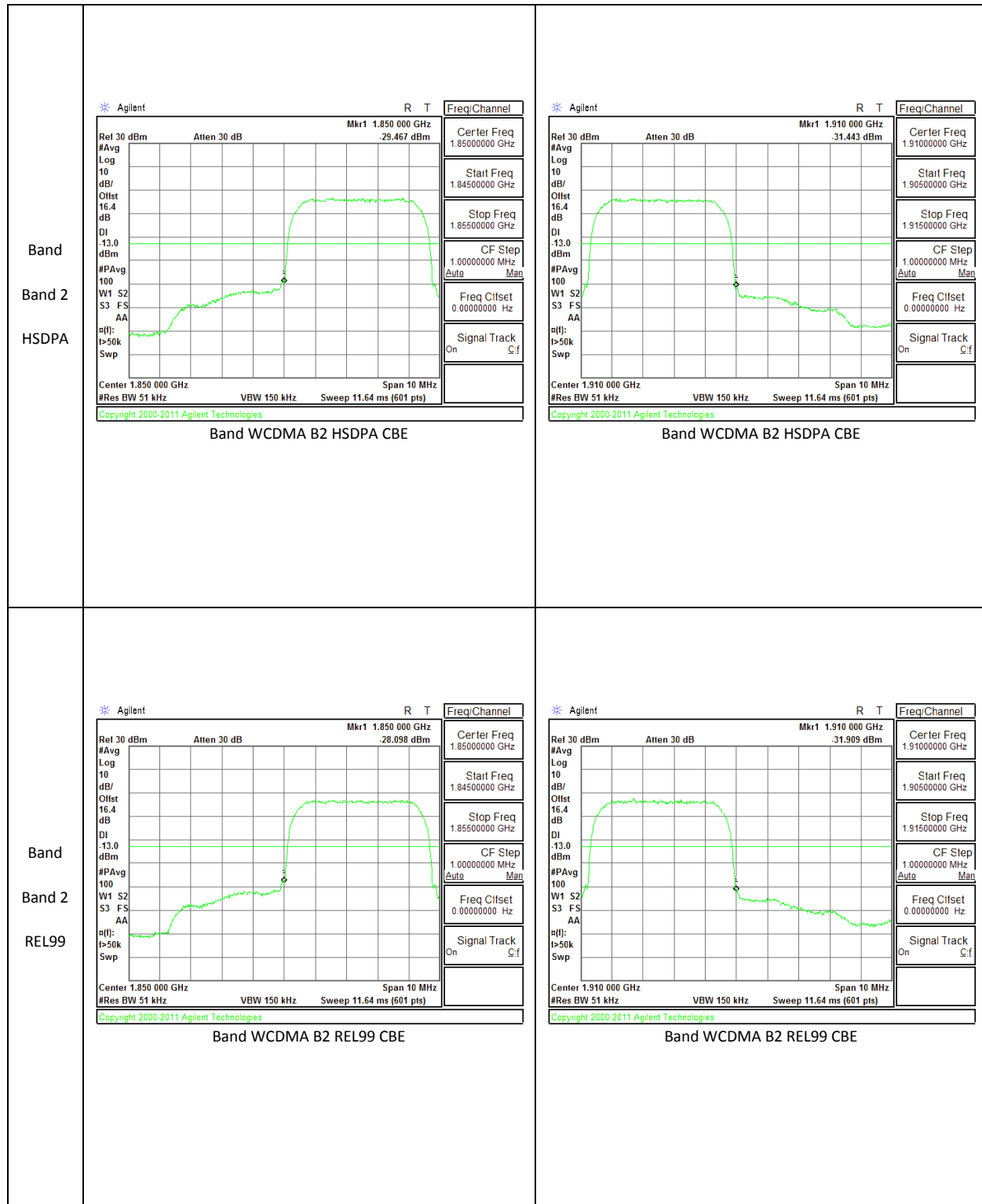
Band LTE2 5MHz QPSK	 Rel 35 dBm Atten 30 dB Mkr1 1.850 000 GHz -20.276 dBm Center Freq 1.85000000 GHz Start Freq 1.84500000 GHz Stop Freq 1.85500000 GHz CF Step 1.00000000 MHz Freq Offset 0.00000000 Hz Signal Track On Center 1.850 000 GHz VBW 150 kHz Span 10 MHz #Res BW 51 kHz Sweep 11.64 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE2 5MHz CBE QPSK Low Channel 1RB.gif	 Rel 35 dBm Atten 30 dB Mkr1 1.850 000 GHz -27.912 dBm Center Freq 1.85000000 GHz Start Freq 1.84500000 GHz Stop Freq 1.85500000 GHz CF Step 1.00000000 MHz Freq Offset 0.00000000 Hz Signal Track On Center 1.850 000 GHz VBW 150 kHz Span 10 MHz #Res BW 51 kHz Sweep 11.64 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE2 5MHz CBE QPSK Low Channel FRB.gif
	 Rel 35 dBm Atten 30 dB Mkr1 1.910 000 GHz -23.199 dBm Center Freq 1.91000000 GHz Start Freq 1.90500000 GHz Stop Freq 1.91500000 GHz CF Step 1.00000000 MHz Freq Offset 0.00000000 Hz Signal Track On Center 1.910 000 GHz VBW 150 kHz Span 10 MHz #Res BW 51 kHz Sweep 11.64 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE2 5MHz CBE QPSK High Channel 1RB.gif	 Rel 35 dBm Atten 30 dB Mkr1 1.910 000 GHz -28.697 dBm Center Freq 1.91000000 GHz Start Freq 1.90500000 GHz Stop Freq 1.91500000 GHz CF Step 1.00000000 MHz Freq Offset 0.00000000 Hz Signal Track On Center 1.910 000 GHz VBW 150 kHz Span 10 MHz #Res BW 51 kHz Sweep 11.64 ms (601 pts) Copyright 2000-2011 Agilent Technologies Band LTE2 5MHz CBE QPSK High Channel FRB.gif

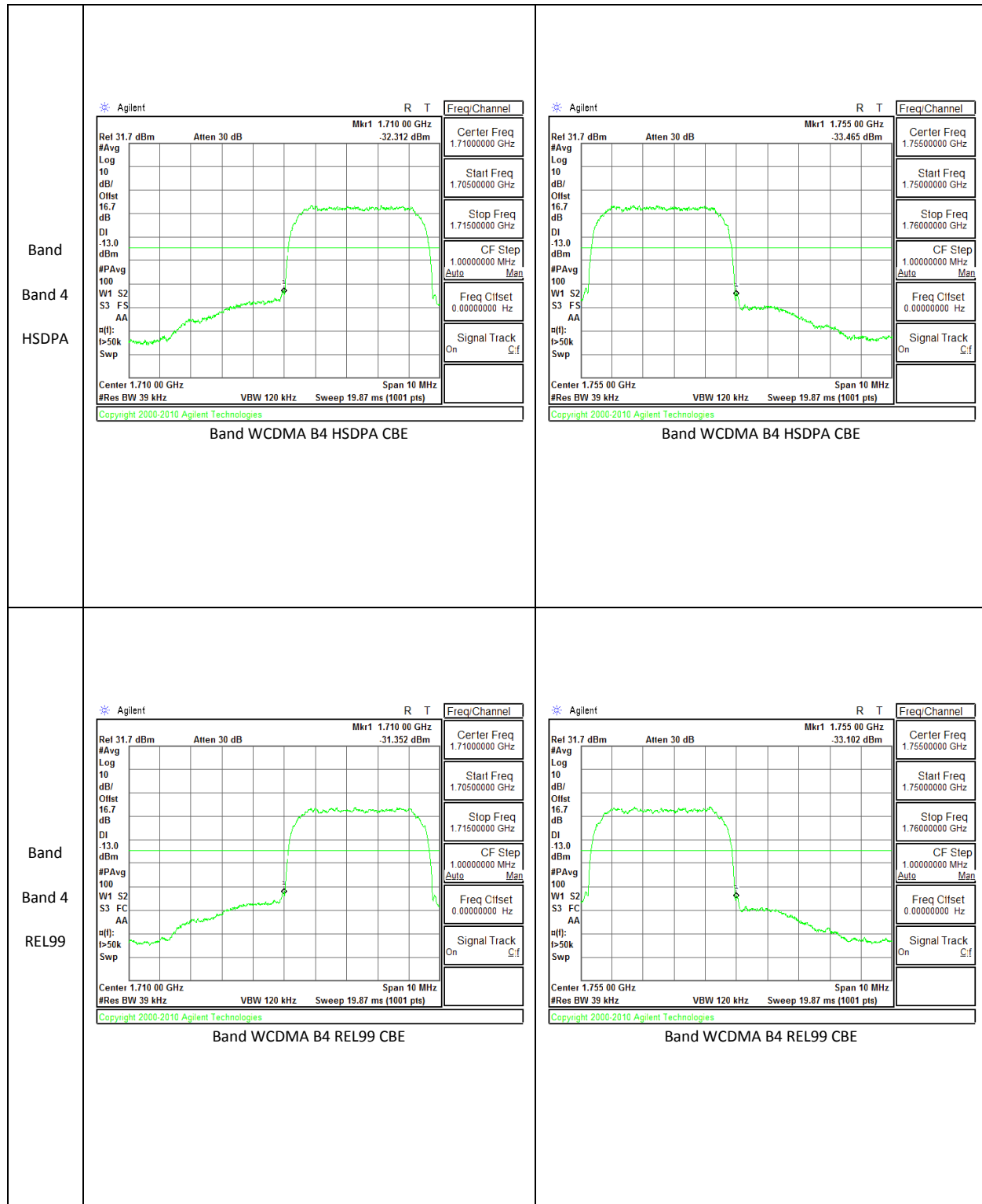
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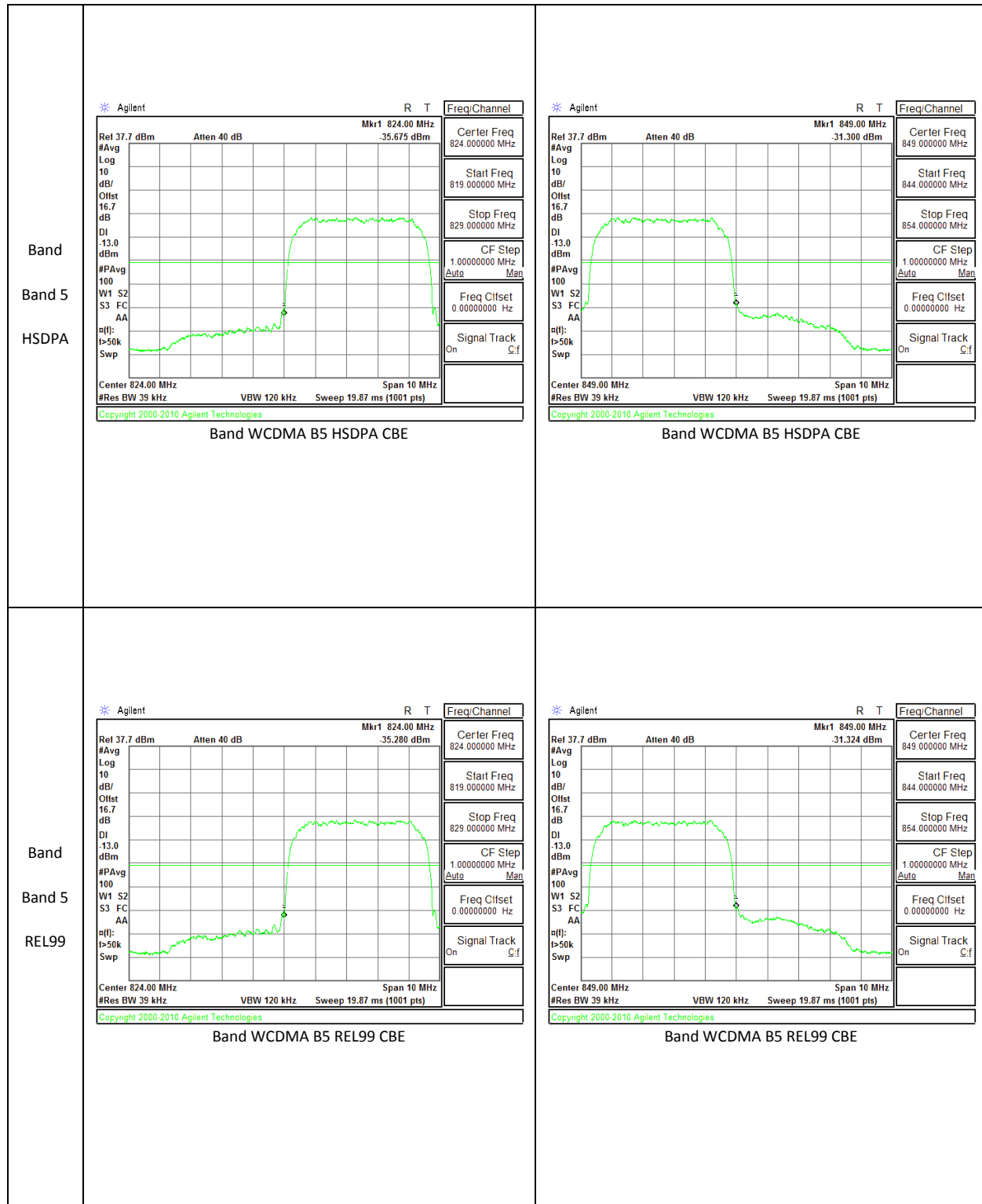


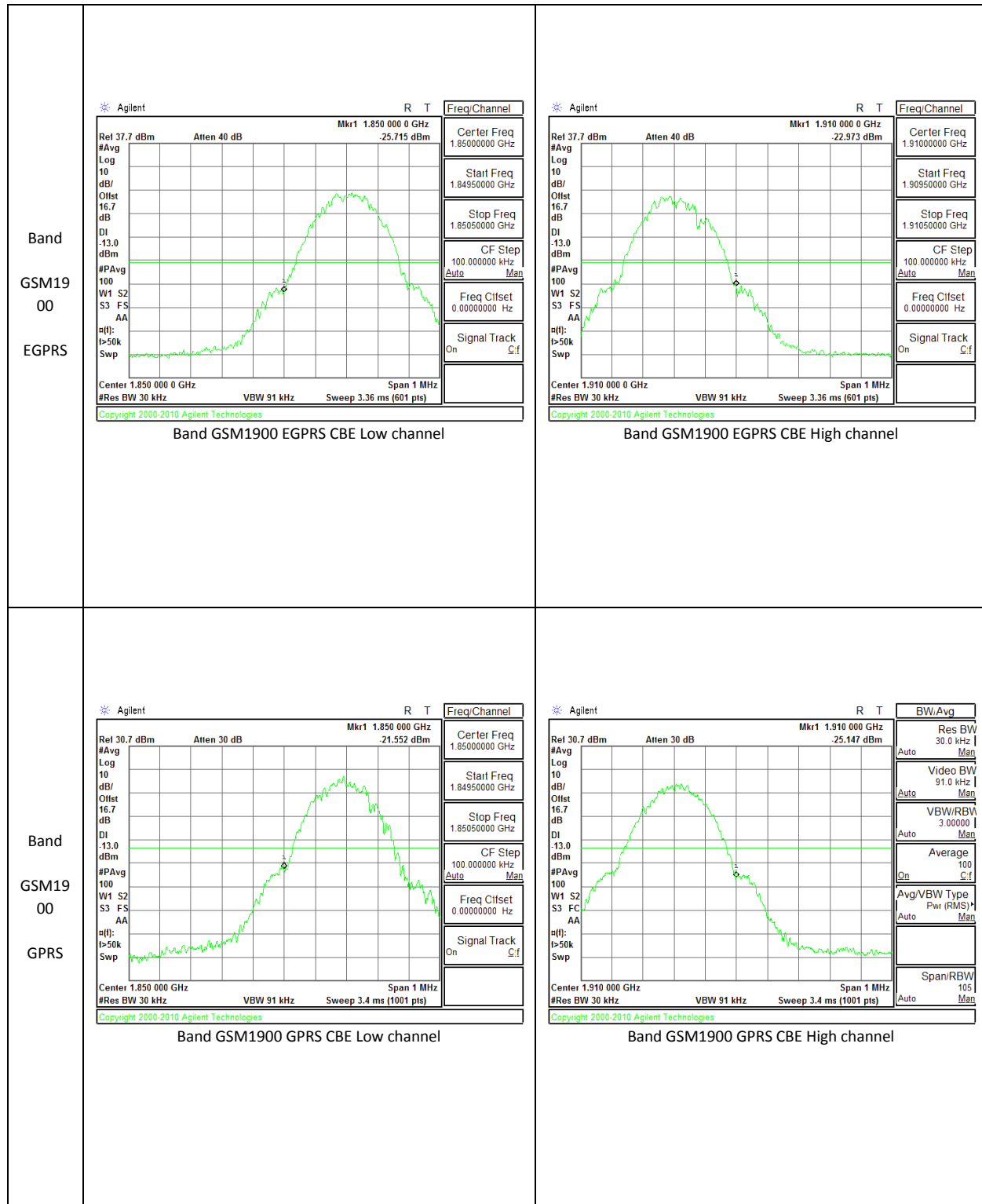
Band LTE2 1.4MHz 16QAM	 Band LTE2 1.4MHz CBE 16QAM Low Channel 1RB.gif	 Band LTE2 1.4MHz CBE 16QAM Low Channel FRB.gif
Band LTE2 1.4MHz 16QAM	 Band LTE2 1.4MHz CBE 16QAM High Channel 1RB.gif	 Band LTE2 1.4MHz CBE 16QAM High Channel FRB.gif

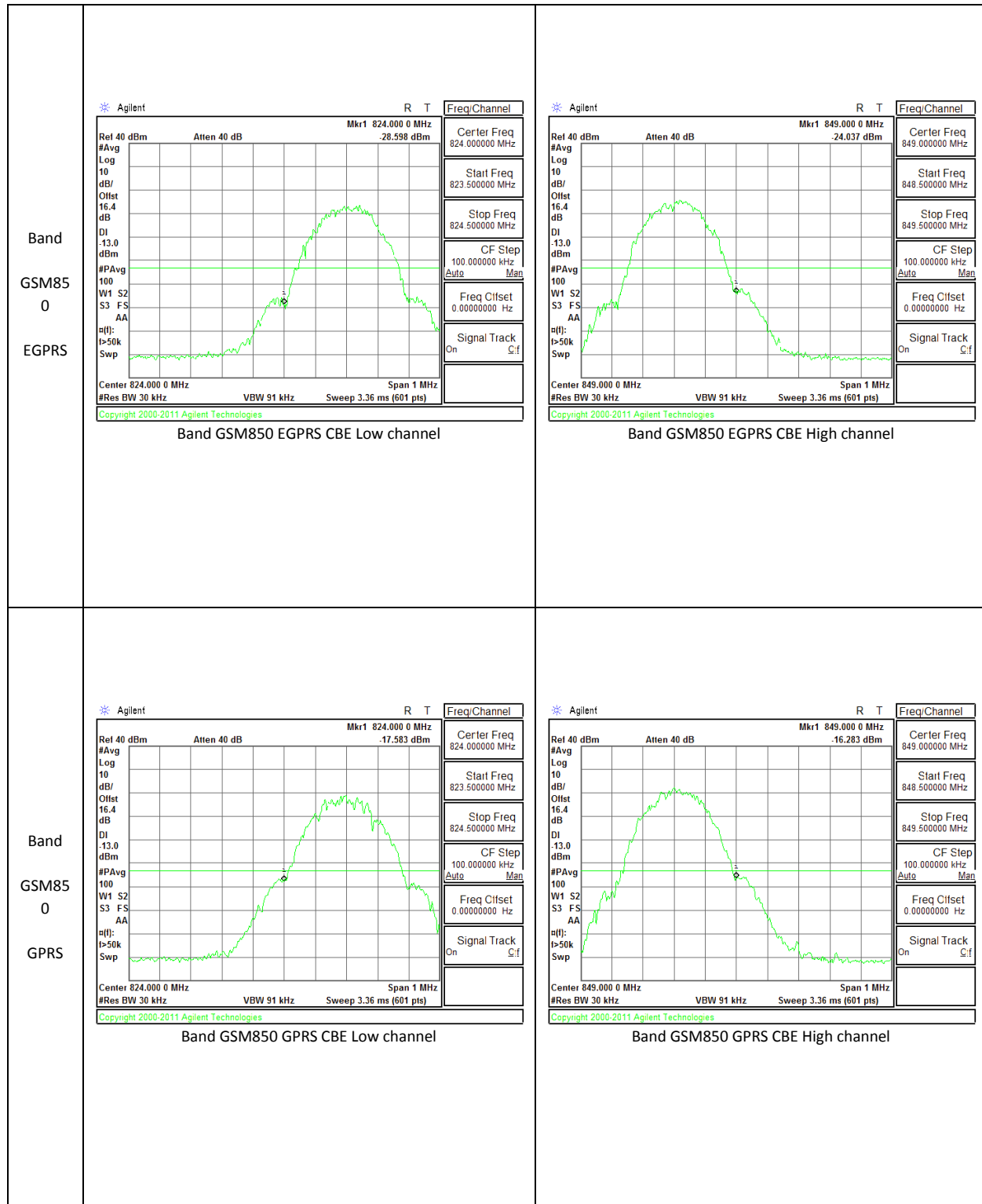




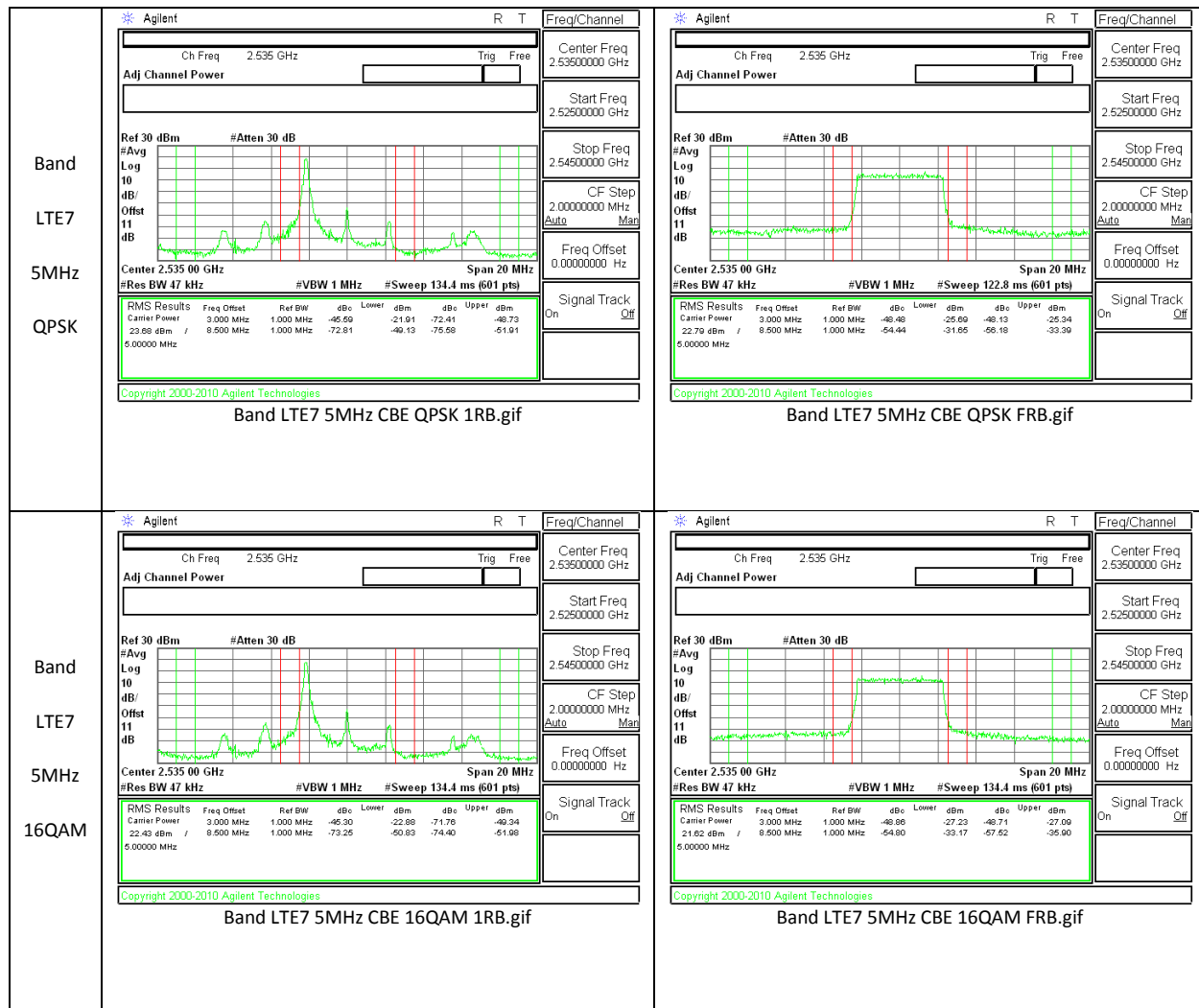


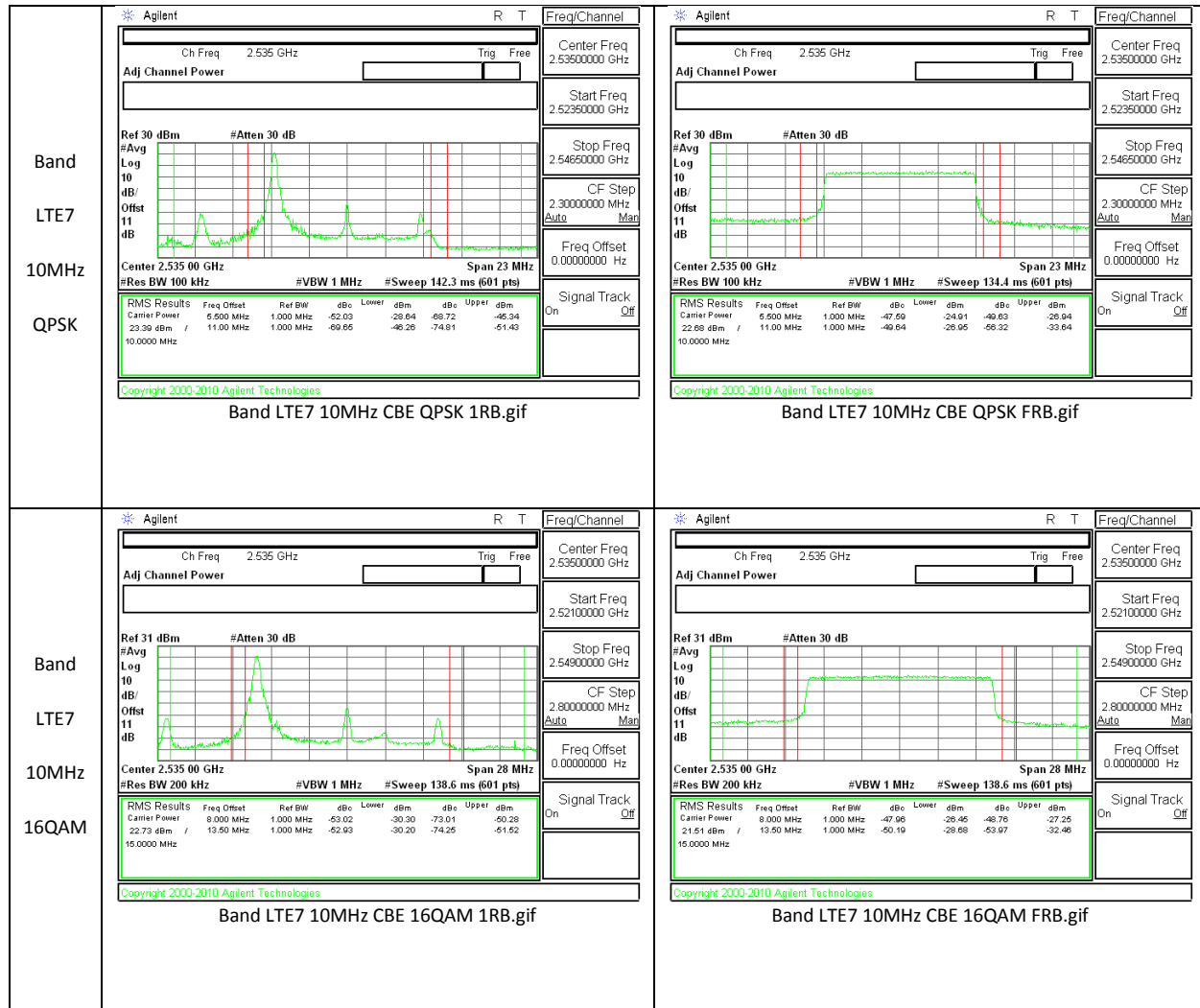


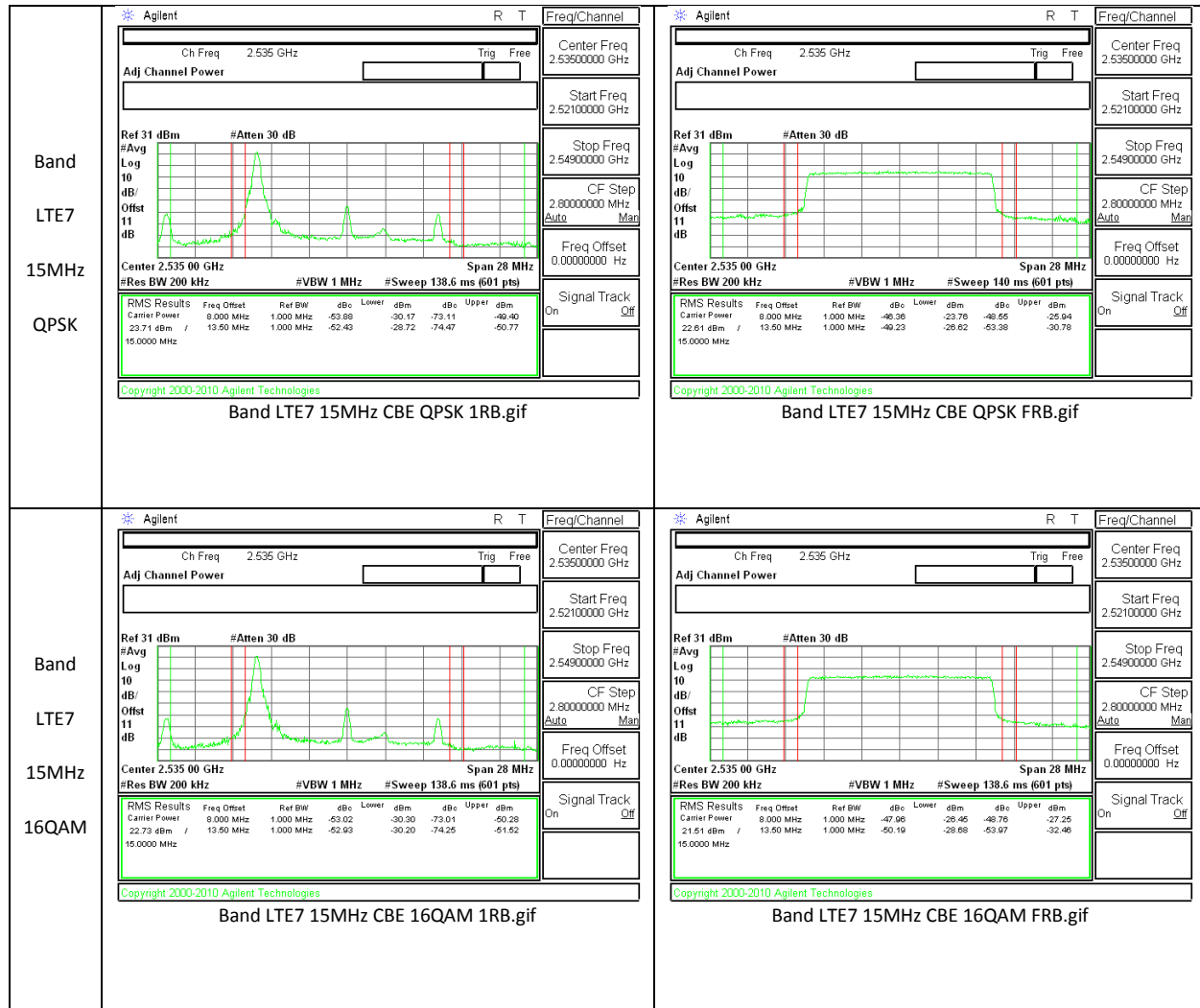




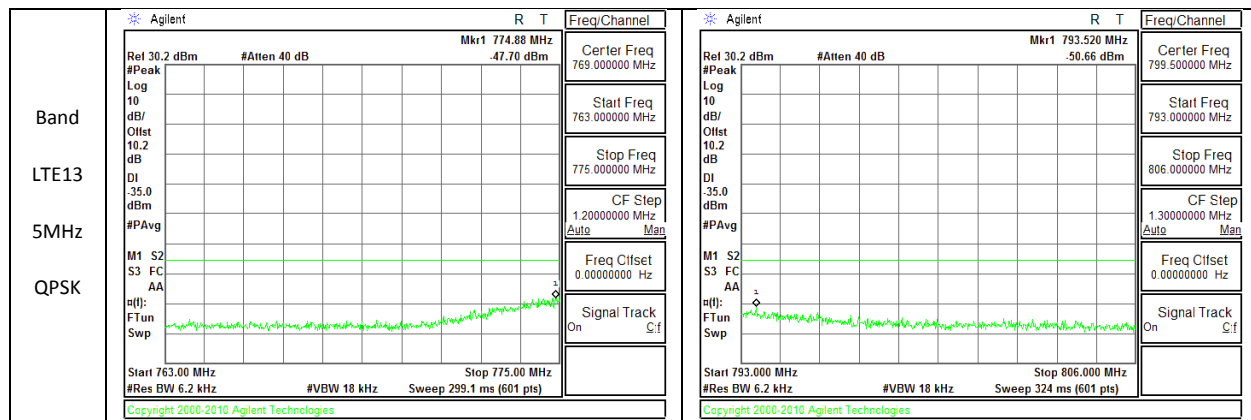
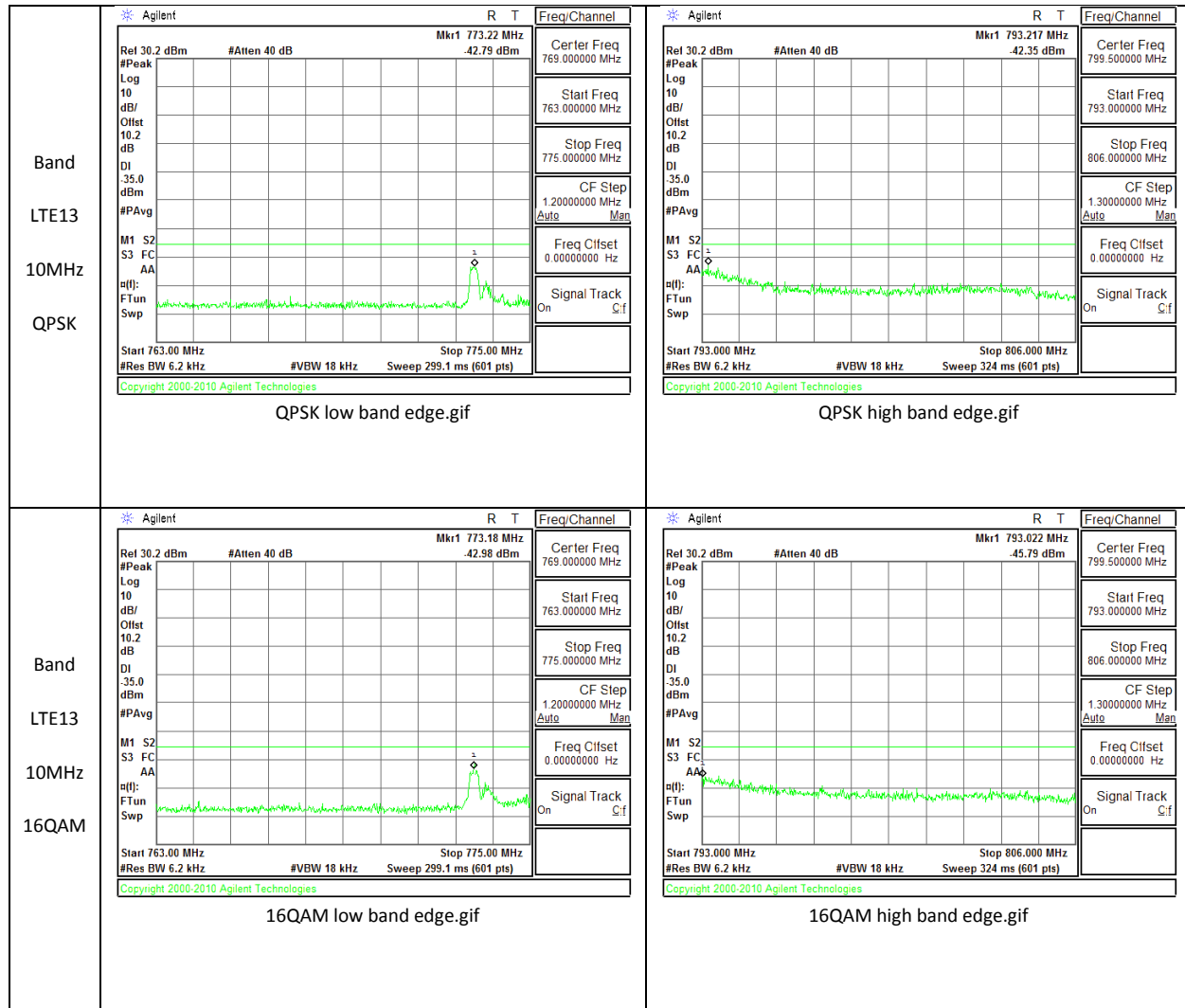
10.2.2. EMISSION MASK PLOTS

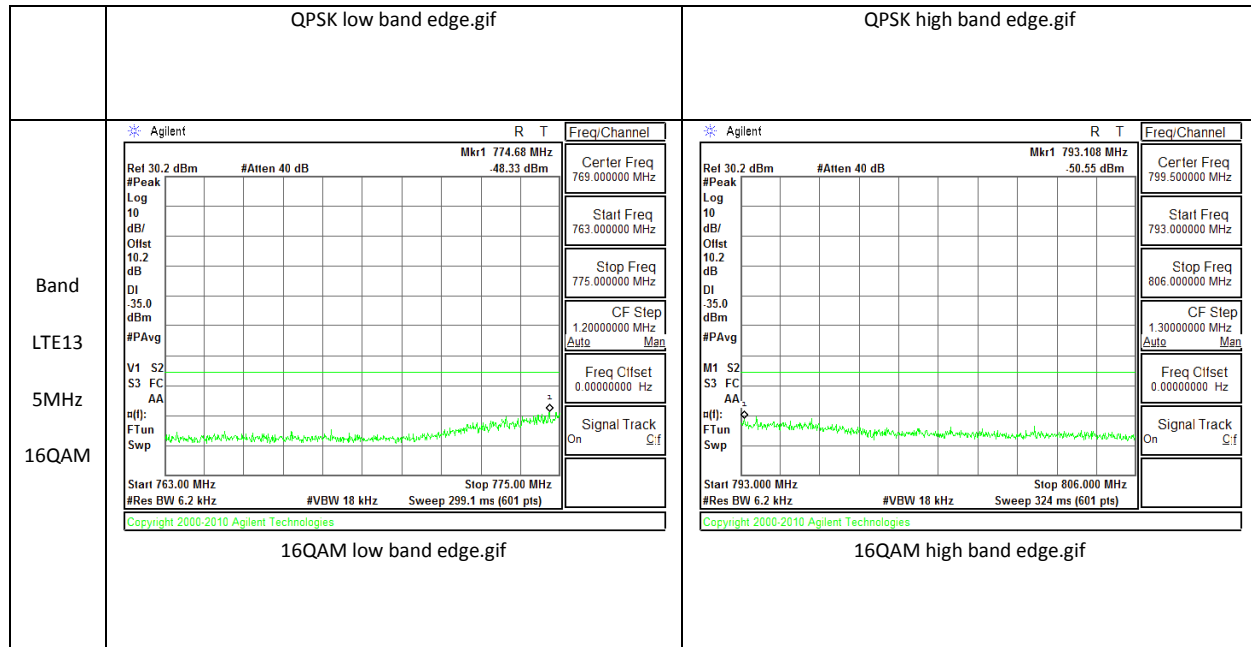












10.3. OUT OF BAND EMISSIONS

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

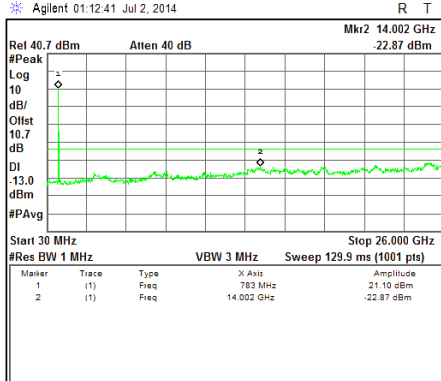
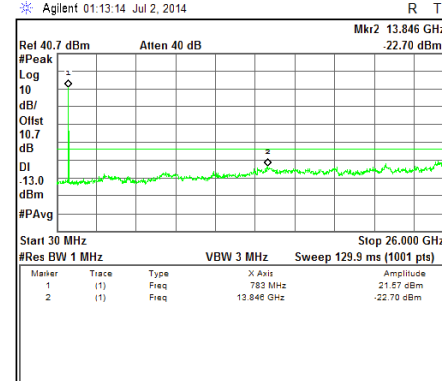
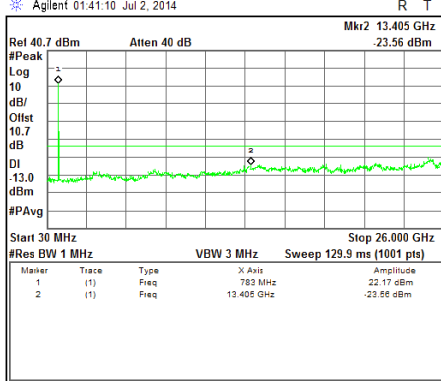
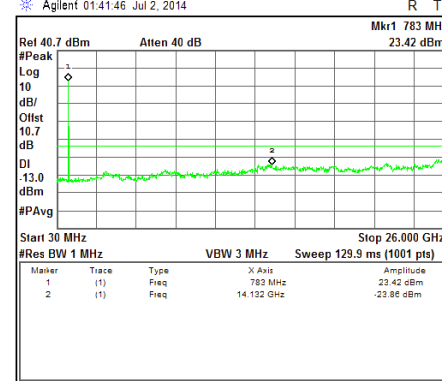
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	3	QPSK	1851.5	-30.54	-13	-17.54
			1880	-30.61	-13	-17.61
			1908.5	-30.16	-13	-17.16
		16QAM	1851.5	-30.97	-13	-17.97
			1880	-29.44	-13	-16.44
			1908.5	-30.41	-13	-17.41

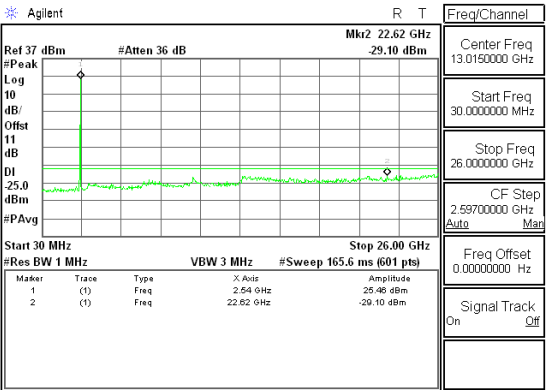
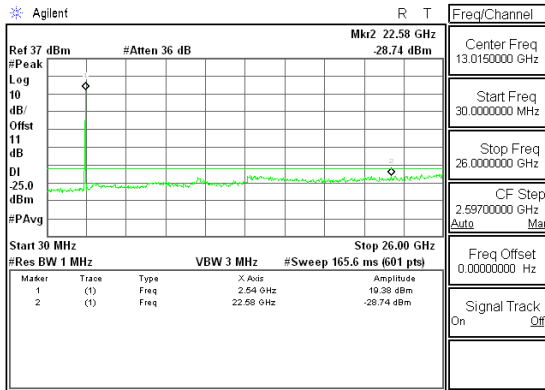
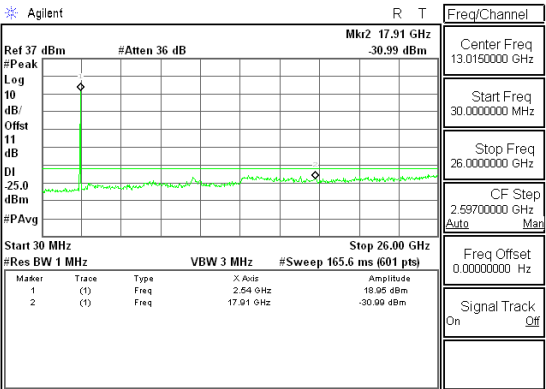
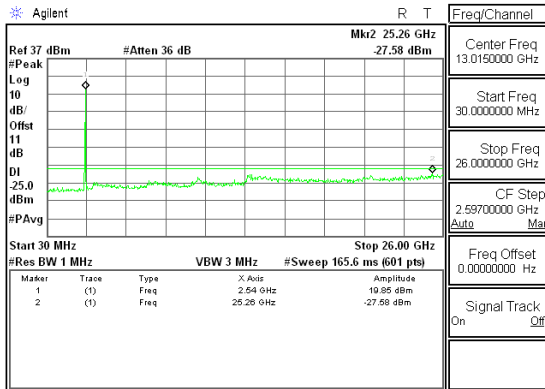
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	1.4	QPSK	1850.7	-31.96	-13	-18.96
			1880	-30.11	-13	-17.11
			1909.3	-29.94	-13	-16.94
		16QAM	1850.7	-28.47	-13	-15.47
			1880	-29.47	-13	-16.47
			1909.3	-29.36	-13	-16.36

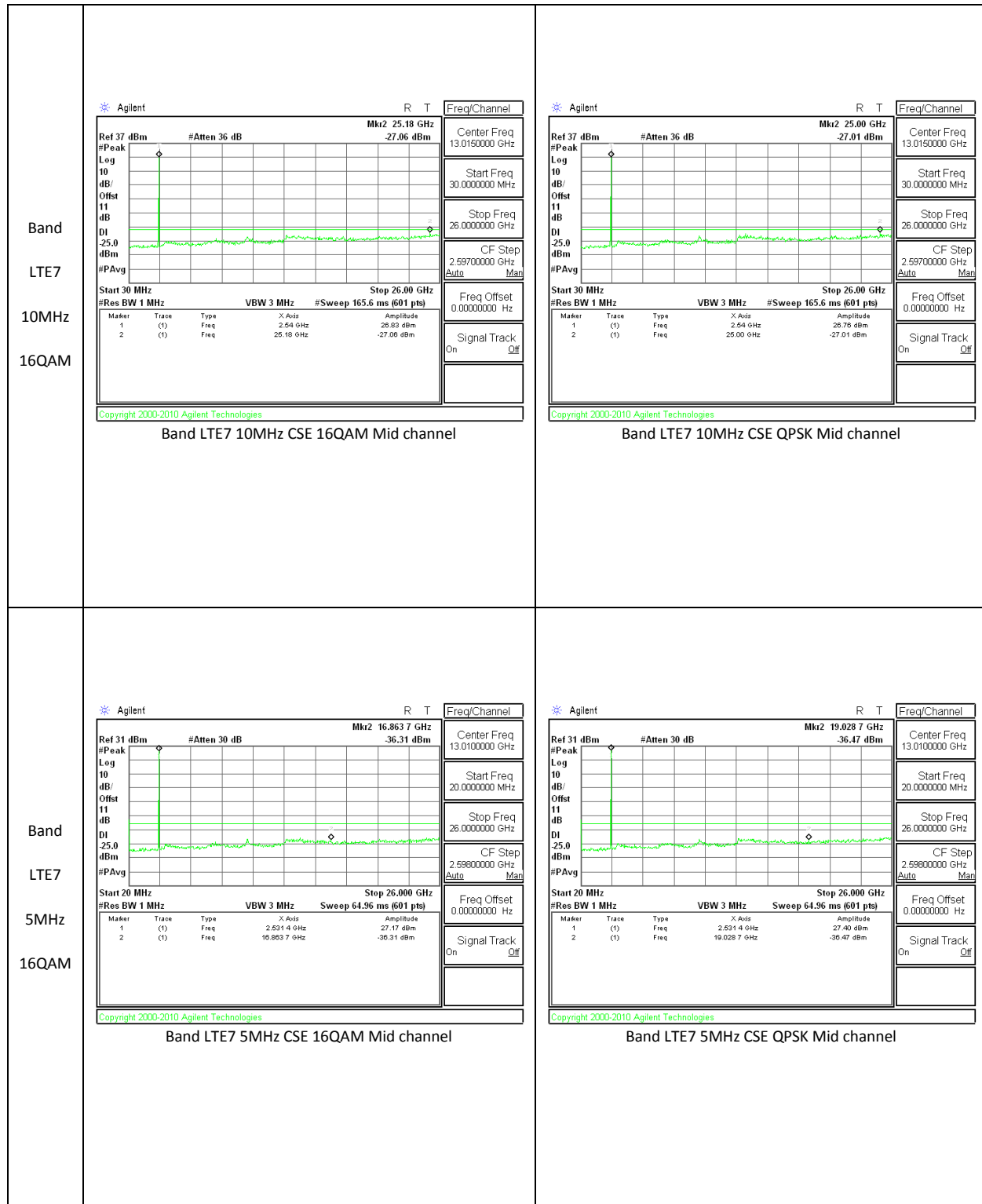
10.3.2. OUT OF BAND EMISSIONS PLOTS

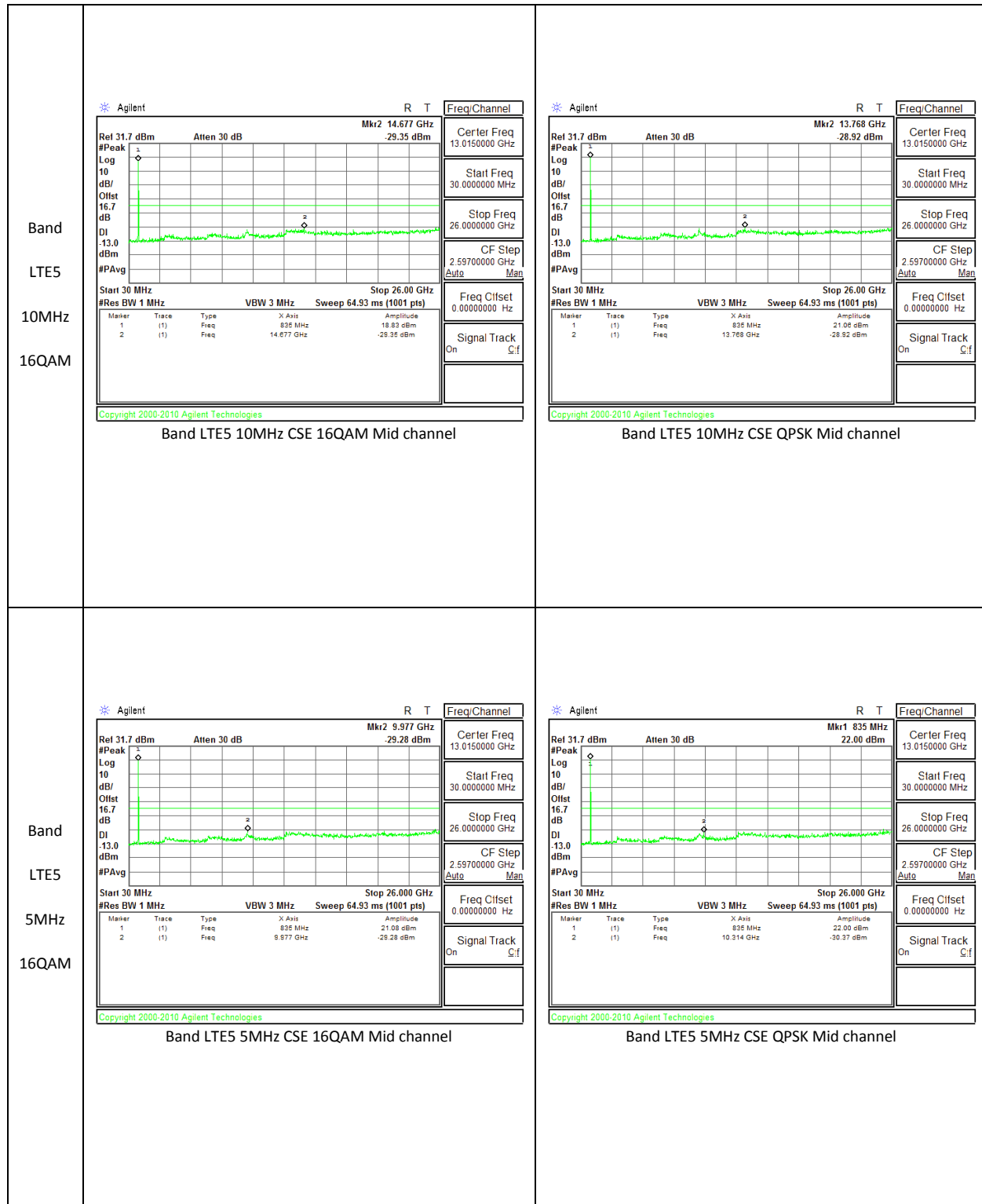
Band LTE17 10MHz 16QAM	✱ Agilent 02:35:46 Jul 2, 2014 R T Freq/Channel Rel 34.7 dBm Atten 40 dB Mkr2 13.197 GHz -22.88 dBm Center Freq 13.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 26.0000000 GHz CF Step 2.59700000 GHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Start 30 MHz Stop 26.000 GHz VBW 3 MHz Sweep 129.9 ms (1001 pts) Marker Trace Type X Axis Amplitude 1 (1) Freq 705 MHz 21.03 dBm 2 (1) Freq 13.197 GHz -22.88 dBm Copyright 2000-2011 Agilent Technologies Band LTE17 10MHz CSE 16QAM Mid channel
	✱ Agilent 02:35:07 Jul 2, 2014 R T Freq/Channel Rel 34.7 dBm Atten 40 dB Mkr2 13.275 GHz -23.43 dBm Center Freq 13.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 26.0000000 GHz CF Step 2.59700000 GHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Start 30 MHz Stop 26.000 GHz VBW 3 MHz Sweep 129.9 ms (1001 pts) Marker Trace Type X Axis Amplitude 1 (1) Freq 705 MHz 21.54 dBm 2 (1) Freq 13.275 GHz -23.43 dBm Copyright 2000-2011 Agilent Technologies Band LTE17 10MHz CSE QPSK Mid channel

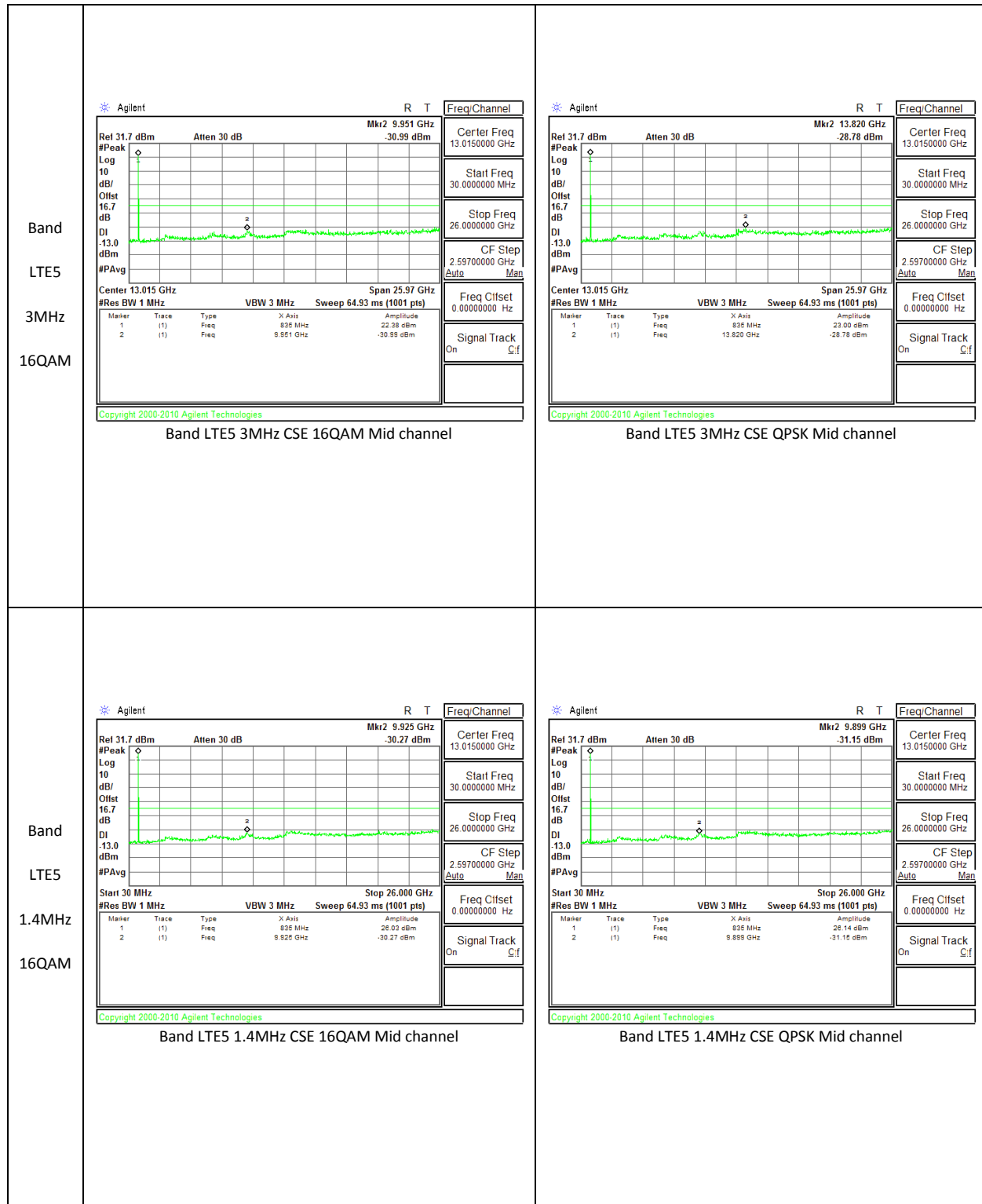
Band LTE17 5MHz 16QAM	✱ Agilent 02:16:30 Jul 2, 2014 R T Marker Rel 34.7 dBm Atten 40 dB Mkr2 13.586 GHz -22.75 dBm Select Marker 1 2 3 4 Normal Delta Delta Pair (Tracking Rel) Ref Span Pair Center Clf More 1 of 2 Start 30 MHz Stop 26.000 GHz VBW 3 MHz Sweep 129.9 ms (1001 pts) Marker Trace Type X Axis Amplitude 1 (1) Freq 705 MHz 22.60 dBm 2 (1) Freq 13.586 GHz -22.75 dBm Copyright 2000-2011 Agilent Technologies Band LTE17 5MHz CSE 16QAM Mid channel
	✱ Agilent 02:15:14 Jul 2, 2014 R T Freq/Channel Rel 34.7 dBm Atten 40 dB Mkr2 13.924 GHz -22.92 dBm Center Freq 13.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 26.0000000 GHz CF Step 2.59700000 GHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Start 30 MHz Stop 26.000 GHz VBW 3 MHz Sweep 129.9 ms (1001 pts) Marker Trace Type X Axis Amplitude 1 (1) Freq 705 MHz 22.68 dBm 2 (1) Freq 13.924 GHz -22.92 dBm Copyright 2000-2011 Agilent Technologies Band LTE17 5MHz CSE QPSK Mid channel

Band LTE13 10MHz 16QAM	 Agilent 01:12:41 Jul 2, 2014 Rel 40.7 dBm Atten 40 dB Mkr2 14.002 GHz -22.87 dBm Center Freq 13.01500000 GHz Start Freq 30.00000000 MHz Stop Freq 26.00000000 GHz CF Step 2.597000000 GHz Freq Cfilset 0.00000000 Hz Signal Track On Copyright 2000-2011 Agilent Technologies Band LTE13 10MHz CSE 16QAM High channel	 Agilent 01:13:14 Jul 2, 2014 Rel 40.7 dBm Atten 40 dB Mkr2 13.846 GHz -22.70 dBm Center Freq 13.01500000 GHz Start Freq 30.00000000 MHz Stop Freq 26.00000000 GHz CF Step 2.597000000 GHz Freq Cfilset 0.00000000 Hz Signal Track On Copyright 2000-2011 Agilent Technologies Band LTE13 10MHz CSE QPSK High channel
Band LTE13 5MHz 16QAM	 Agilent 01:41:10 Jul 2, 2014 Rel 40.7 dBm Atten 40 dB Mkr2 13.405 GHz -23.56 dBm Center Freq 13.01500000 GHz Start Freq 30.00000000 MHz Stop Freq 26.00000000 GHz CF Step 2.597000000 GHz Freq Cfilset 0.00000000 Hz Signal Track On Copyright 2000-2011 Agilent Technologies Band LTE13 5MHz CSE 16QAM Mid channel	 Agilent 01:41:46 Jul 2, 2014 Rel 40.7 dBm Atten 40 dB Mkr1 783 MHz 23.42 dBm Center Freq 13.01500000 GHz Start Freq 30.00000000 MHz Stop Freq 26.00000000 GHz CF Step 2.597000000 GHz Freq Cfilset 0.00000000 Hz Signal Track On Copyright 2000-2011 Agilent Technologies Band LTE13 5MHz CSE QPSK Mid channel

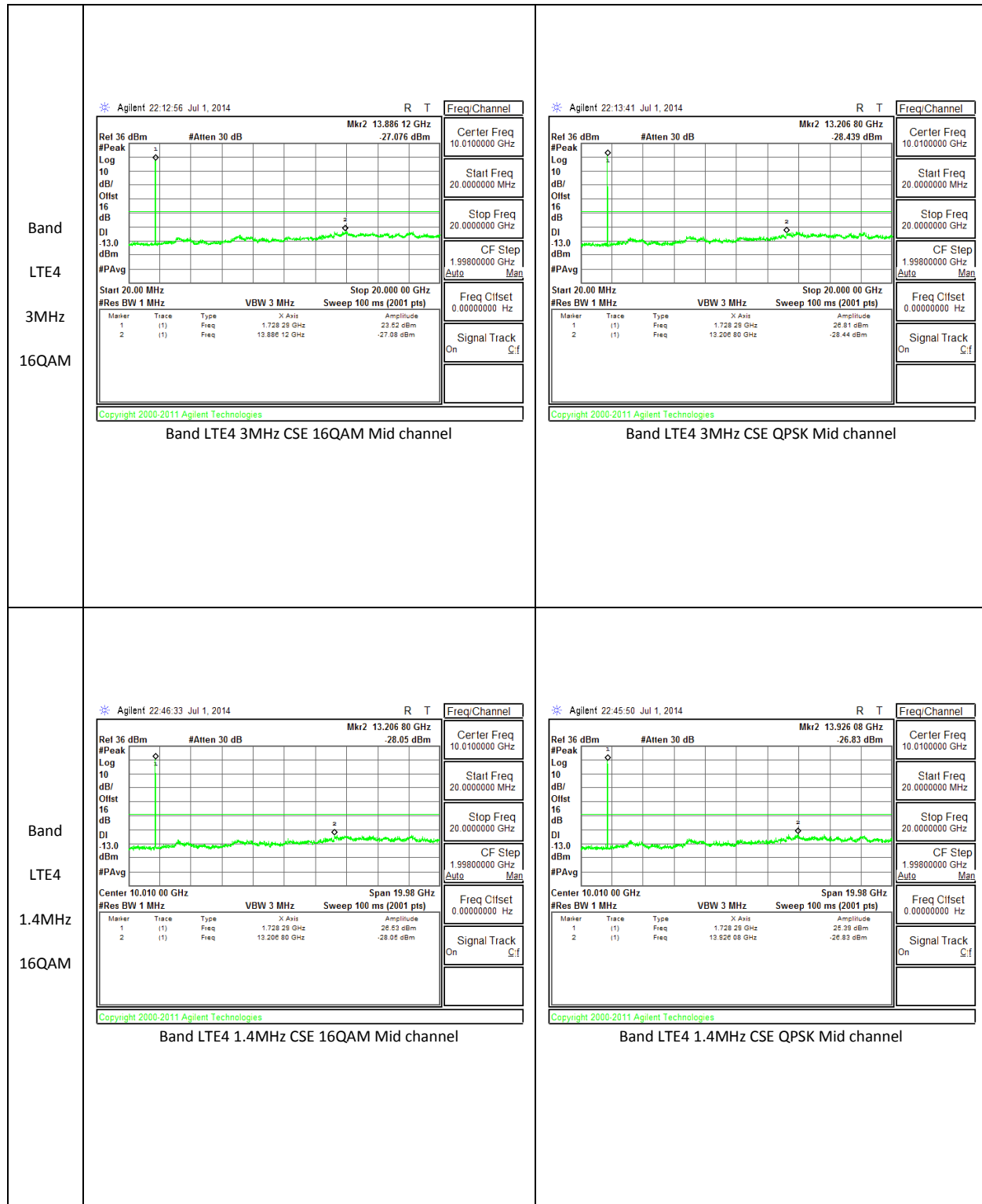
Band LTE7 20MHz 16QAM	 Copyright 2000-2010 Agilent Technologies Band LTE7 20MHz CSE 16QAM Mid channel	 Copyright 2000-2010 Agilent Technologies Band LTE7 20MHz CSE QPSK Mid channel
Band LTE7 15MHz 16QAM	 Copyright 2000-2010 Agilent Technologies Band LTE7 15MHz CSE 16QAM Mid channel	 Copyright 2000-2010 Agilent Technologies Band LTE7 15MHz CSE QPSK Mid channel

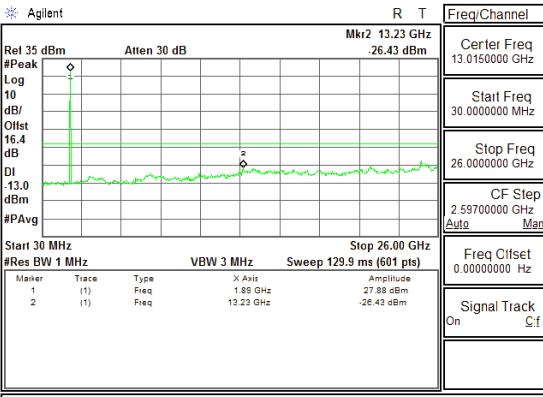
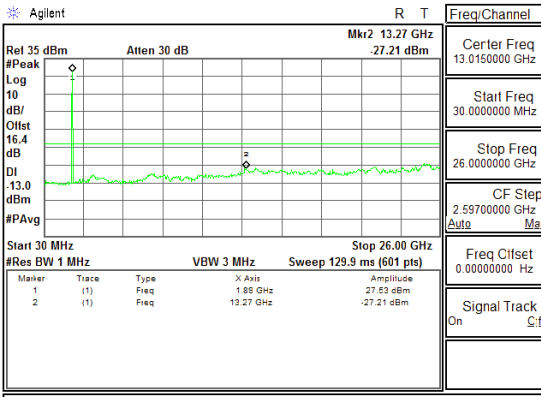
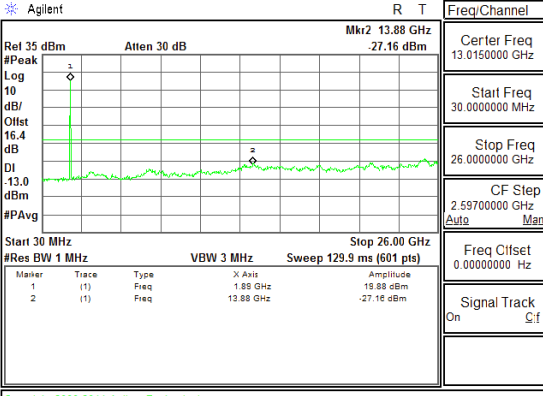
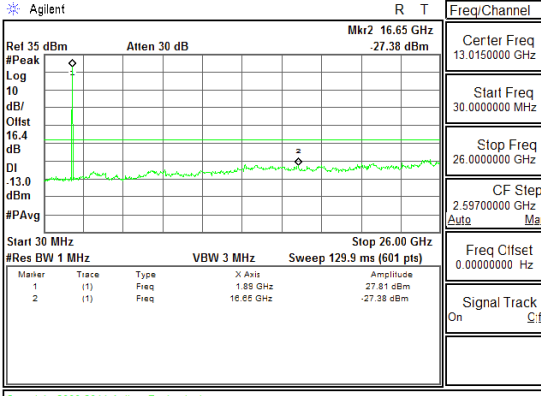


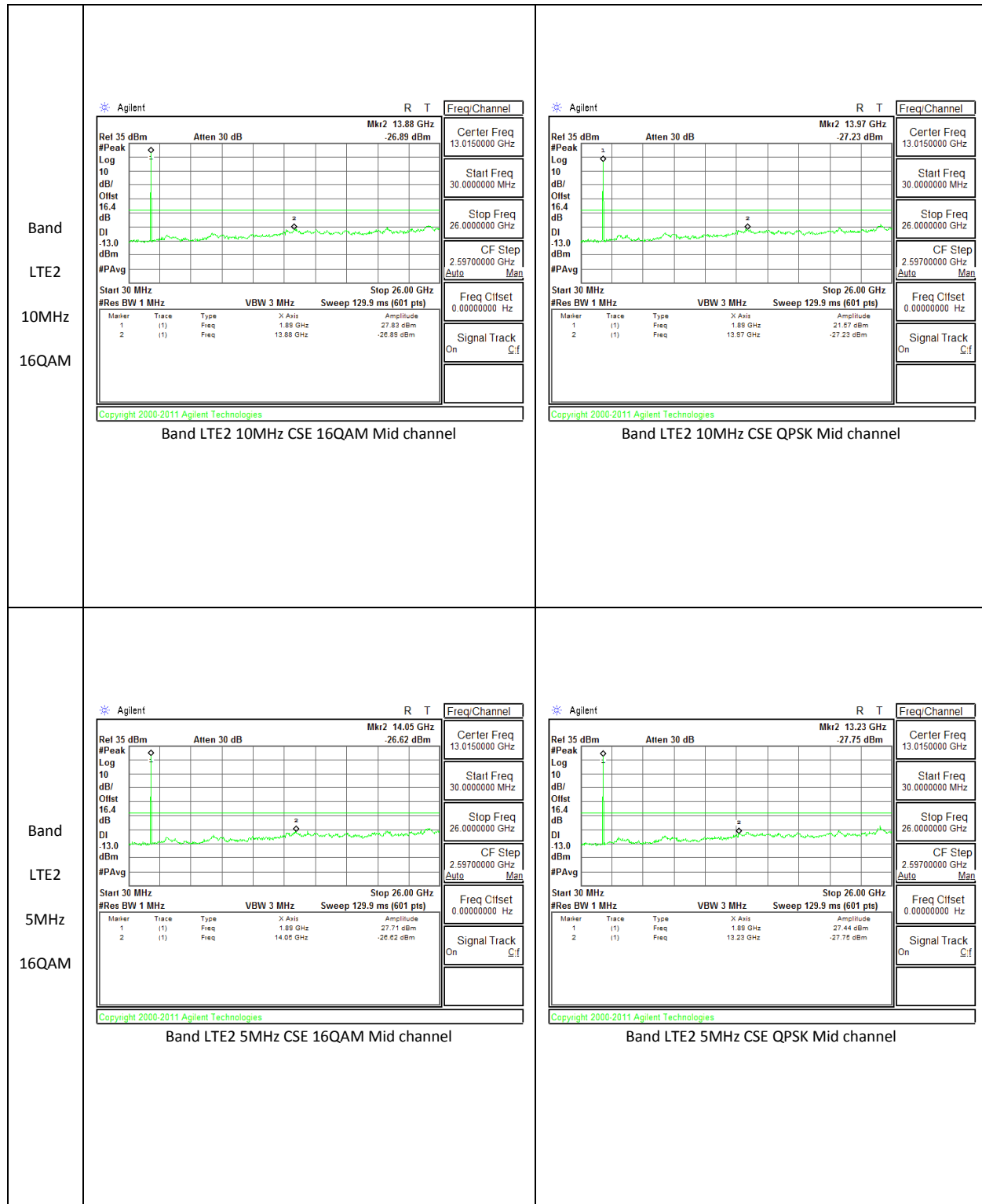


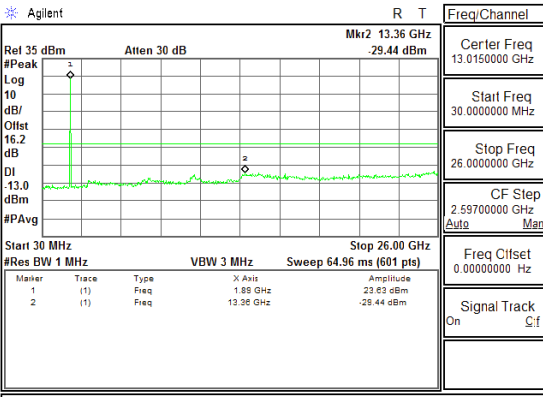
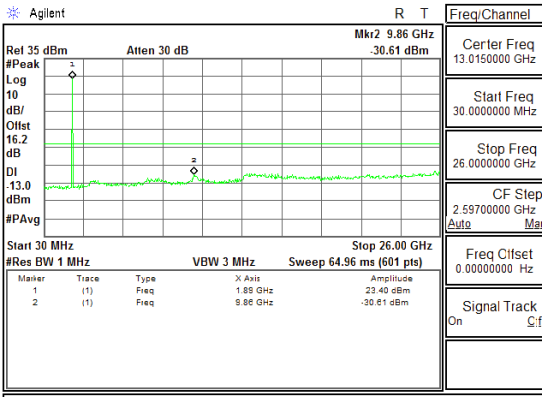
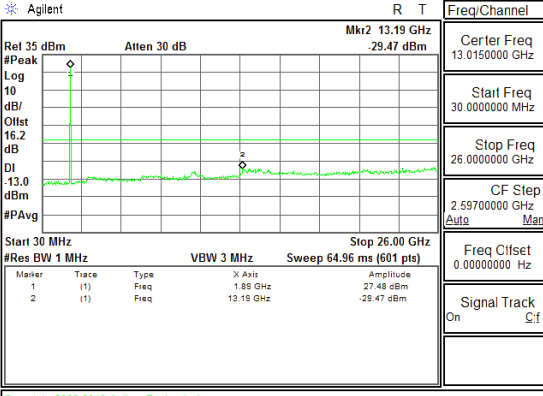
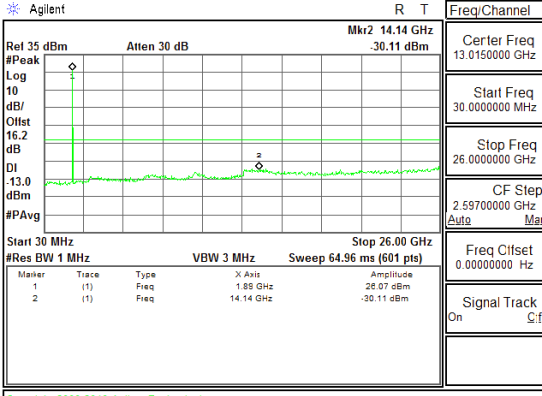


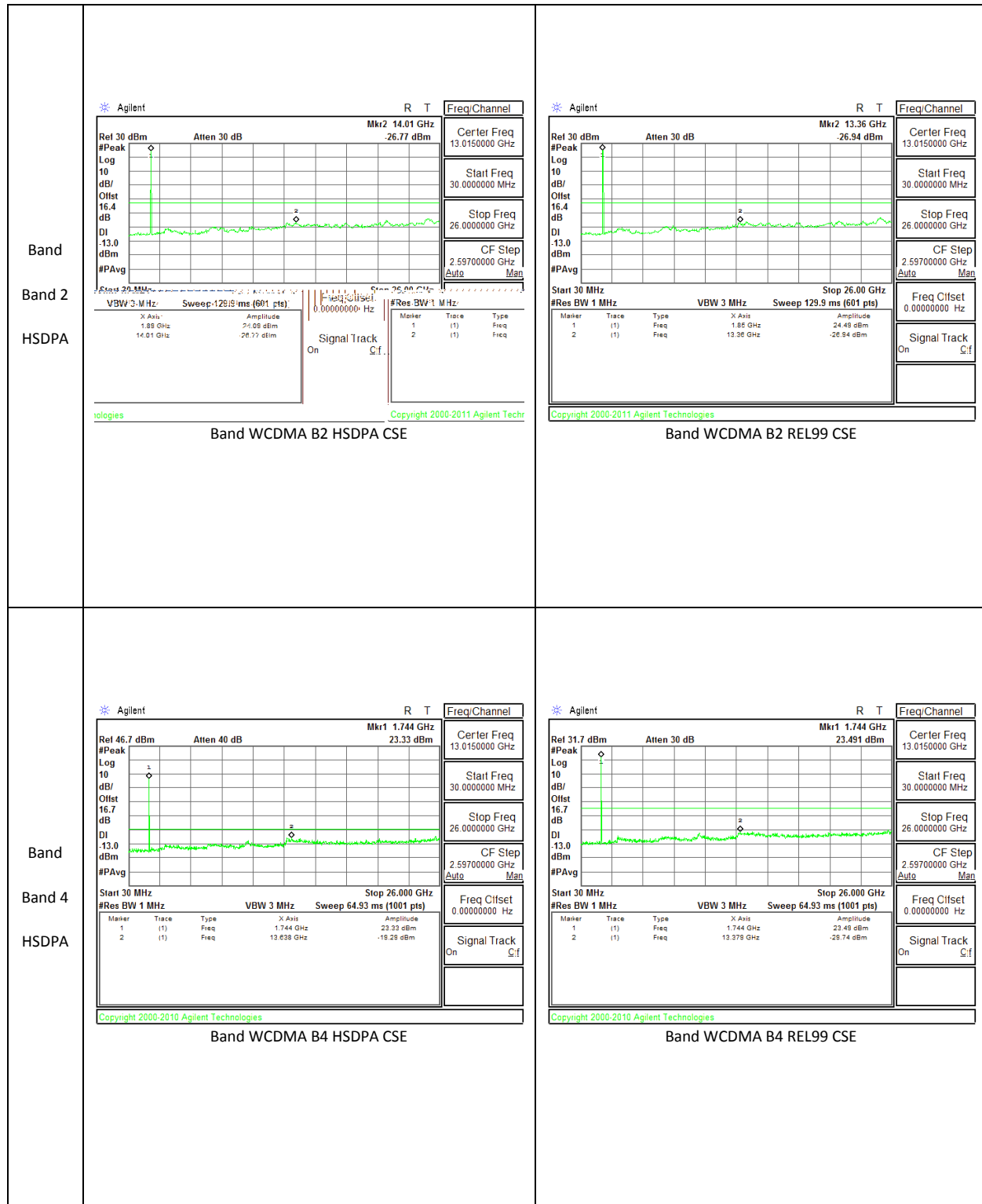
Band LTE4 20MHz 16QAM	Agilent 15:15:07 Jul 1, 2014 Rel 41.7 dBm Atten 40 dB Mk12 12.740 6 GHz -18.12 dBm Center Freq 10.01000000 GHz Start Freq 20.00000000 MHz Stop Freq 20.00000000 GHz CF Step 1.998000000 GHz Freq Cifset 0.00000000 Hz Signal Track On Copyright 2000-2011 Agilent Technologies Band LTE4 20MHz CSE 16QAM Mid channel	Agilent 15:14:24 Jul 1, 2014 Rel 41.7 dBm Atten 40 dB Mk12 13.939 4 GHz -17.45 dBm Center Freq 10.01000000 GHz Start Freq 20.00000000 MHz Stop Freq 20.00000000 GHz CF Step 1.998000000 GHz Freq Cifset 0.00000000 Hz Signal Track On Copyright 2000-2011 Agilent Technologies Band LTE4 20MHz CSE QPSK Mid channel
Band LTE4 15MHz 16QAM	Agilent 15:52:43 Jul 1, 2014 Rel 41.7 dBm Atten 40 dB Mk12 13.939 4 GHz -17.02 dBm Center Freq 10.01000000 GHz Start Freq 20.00000000 MHz Stop Freq 20.00000000 GHz CF Step 1.998000000 GHz Freq Cifset 0.00000000 Hz Signal Track On Copyright 2000-2011 Agilent Technologies Band LTE4 15MHz CSE 16QAM Mid channel	Agilent 15:52:06 Jul 1, 2014 Rel 41.7 dBm Atten 40 dB Mk12 14.039 3 GHz -17.37 dBm Center Freq 10.01000000 GHz Start Freq 20.00000000 MHz Stop Freq 20.00000000 GHz CF Step 1.998000000 GHz Freq Cifset 0.00000000 Hz Signal Track On Copyright 2000-2011 Agilent Technologies Band LTE4 15MHz CSE QPSK Mid channel

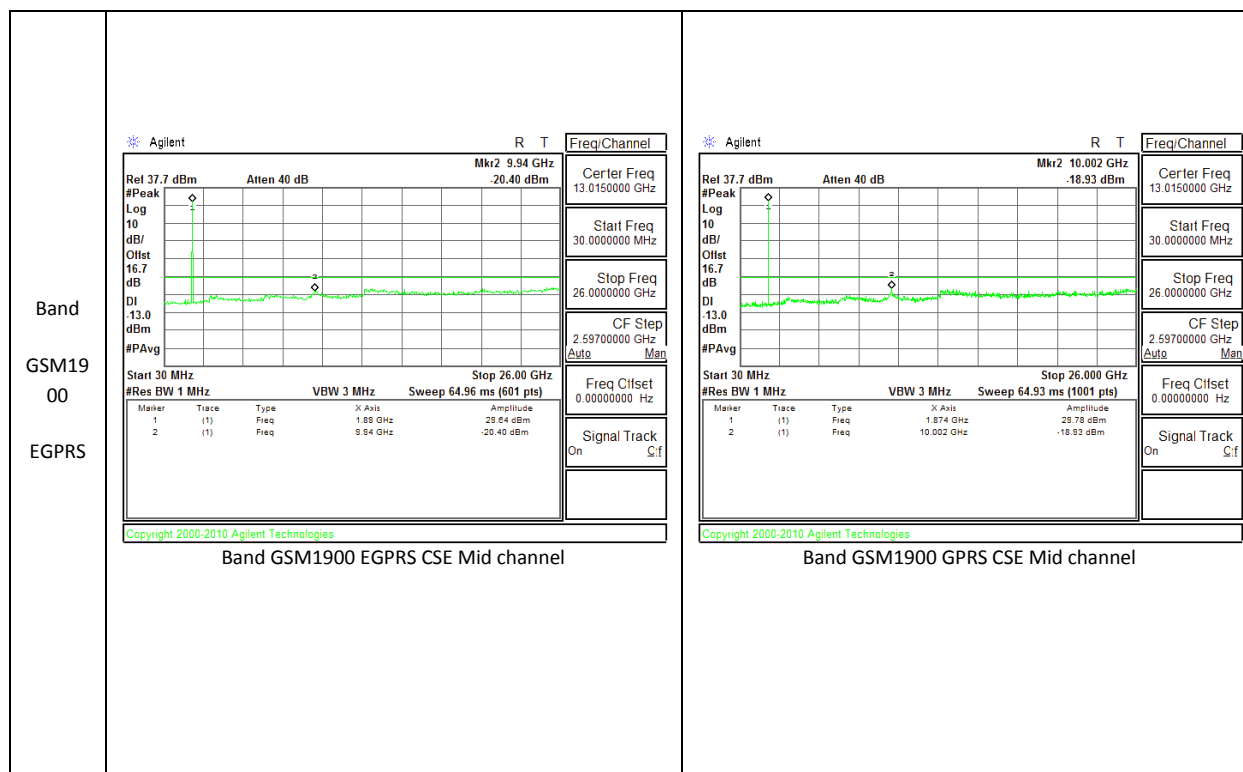
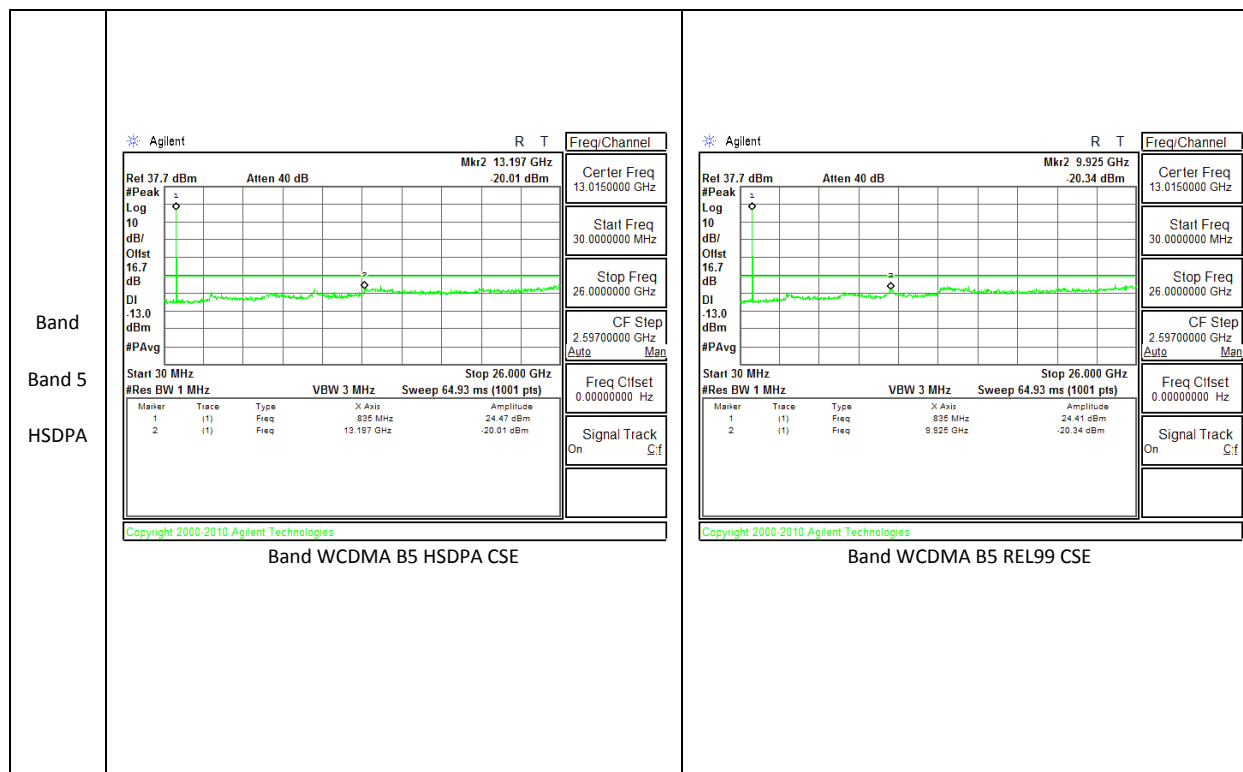


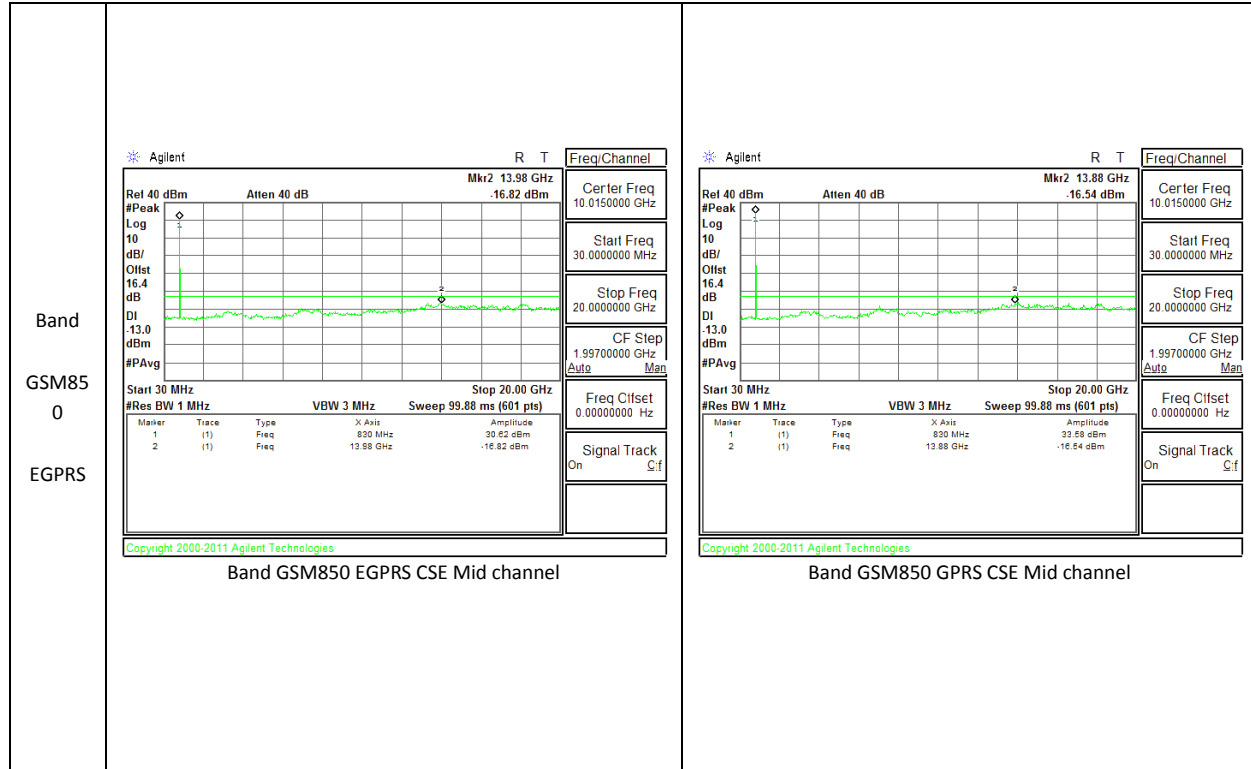
Band LTE2 20MHz 16QAM	 Copyright 2000-2011 Agilent Technologies Band LTE2 20MHz CSE 16QAM Mid channel	 Copyright 2000-2011 Agilent Technologies Band LTE2 20MHz CSE QPSK Mid channel
Band LTE2 15MHz 16QAM	 Copyright 2000-2011 Agilent Technologies Band LTE2 15MHz CSE 16QAM Mid channel	 Copyright 2000-2011 Agilent Technologies Band LTE2 15MHz CSE QPSK Mid channel



Band LTE2 3MHz 16QAM	 Copyright 2000-2010 Agilent Technologies Band LTE2 3MHz CSE 16QAM Mid channel	 Copyright 2000-2010 Agilent Technologies Band LTE2 3MHz CSE QPSK Mid channel
Band LTE2 1.4MHz 16QAM	 Copyright 2000-2010 Agilent Technologies Band LTE2 1.4MHz CSE 16QAM Mid channel	 Copyright 2000-2010 Agilent Technologies Band LTE2 1.4MHz CSE QPSK Mid channel







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		
			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		
			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		
			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:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

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	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. <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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>Low Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>709.00</td> <td>13.46</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.56</td> <td>34.8</td> <td>-22.2</td> <td></td> </tr> <tr> <td>709.00</td> <td>20.31</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.41</td> <td>34.8</td> <td>-15.4</td> <td></td> </tr> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>710.00</td> <td>13.33</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.43</td> <td>34.8</td> <td>-22.4</td> <td></td> </tr> <tr> <td>710.00</td> <td>20.40</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.50</td> <td>34.8</td> <td>-15.3</td> <td></td> </tr> <tr> <td>High Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>711.00</td> <td>13.57</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.67</td> <td>34.8</td> <td>-22.1</td> <td></td> </tr> <tr> <td>711.00</td> <td>20.56</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.66</td> <td>34.8</td> <td>-15.1</td> <td></td> </tr> </tbody> </table> Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm	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	
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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Band

LTE13

5MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber B

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Sony

14U17933

08/14/14

K. Ros

EUT only, x-pos

LTE13 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								
779.50	13.25	V	0.9	0.0	12.35	34.8	-22.5	
779.50	19.21	H	0.9	0.0	18.31	34.8	-16.5	
Mid Ch								
782.00	13.85	V	0.9	0.0	12.95	34.8	-21.8	
782.00	19.67	H	0.9	0.0	18.77	34.8	-16.0	
High Ch								
784.50	13.82	V	0.9	0.0	12.92	34.8	-21.9	
784.50	19.41	H	0.9	0.0	18.51	34.8	-16.3	

Rev. 3.17.11

Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm

Band

LTE7

5MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber B

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Sony

14U17933

08/14/14

K. Ros

EUT only, X-pos

LTE 7 5MHz 16QAM 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								
2502.50	14.46	V	0.9	9.4	22.96	33.0	-10.0	
2502.50	16.59	H	0.9	9.4	25.09	33.0	-7.9	
Mid Ch								
2535.00	14.68	V	0.9	9.4	23.18	33.0	-9.8	
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

LTE5

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: 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.

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

Band

LTE5

3MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber B

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

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								
825.50	16.40	V	0.9	0.0	15.50	38.5	-22.9	
825.50	21.62	H	0.9	0.0	20.72	38.5	-17.7	
Mid Ch								
836.50	17.03	V	0.9	0.0	16.14	38.5	-22.3	
836.50	22.55	H	0.9	0.0	21.65	38.5	-16.8	
High Ch								
847.50	15.53	V	0.9	0.0	14.63	38.5	-23.8	
847.50	21.92	H	0.9	0.0	21.03	38.5	-17.4	

Rev. 3.17.11

Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm

Band

LTE5

1.4MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber C

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

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								
824.70	17.09	V		0.0	17.09	38.5	-21.4	
824.70	21.75	H		0.0	21.75	38.5	-16.7	
Mid Ch								
836.50	16.90	V		0.0	16.91	38.5	-21.5	
836.50	22.53	H		0.0	22.53	38.5	-15.9	
High Ch								
848.30	14.72	V		0.0	14.72	38.5	-23.7	
848.30	21.71	H		0.0	21.72	38.5	-16.7	

Rev. 3.17.11

Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm

Band LTE4 3MHz 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 4 3MHz 16QAM FUND																																																																																																	
	Test Equipment:																																																																																																	
	Receiving: Horn T345, and Chamber B SMA Cables																																																																																																	
	Substitution: Horn T59 Substitution, 4ft SMA Cable 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 (dBi)</th> <th>EIRP (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>1711.50</td> <td>12.60</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>19.90</td> <td>30.0</td> <td>-10.1</td> <td></td> </tr> <tr> <td>1711.50</td> <td>15.58</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>22.88</td> <td>30.0</td> <td>-7.1</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>14.90</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>22.20</td> <td>30.0</td> <td>-7.8</td> <td></td> </tr> <tr> <td>1732.50</td> <td>16.67</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.97</td> <td>30.0</td> <td>-6.0</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1753.50</td> <td>14.00</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>21.30</td> <td>30.0</td> <td>-8.7</td> <td></td> </tr> <tr> <td>1753.50</td> <td>16.11</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.41</td> <td>30.0</td> <td>-6.6</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									1711.50	12.60	V	0.9	8.2	19.90	30.0	-10.1		1711.50	15.58	H	0.9	8.2	22.88	30.0	-7.1		Mid Ch									1732.50	14.90	V	0.9	8.2	22.20	30.0	-7.8		1732.50	16.67	H	0.9	8.2	23.97	30.0	-6.0		High Ch									1753.50	14.00	V	0.9	8.2	21.30	30.0	-8.7		1753.50	16.11	H	0.9	8.2	23.41	30.0	-6.6	
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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1732.50	14.90	V	0.9	8.2	22.20	30.0	-7.8																																																																																											
1732.50	16.67	H	0.9	8.2	23.97	30.0	-6.0																																																																																											
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1753.50	14.00	V	0.9	8.2	21.30	30.0	-8.7																																																																																											
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Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm																																																																																																		

Band

LTE4

1.4MHz

QPSK

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 4 1.4MHz QPSK FUND

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								
1710.70	7.30	V	0.9	8.2	14.60	33.0	-18.4	
1710.70	16.77	H	0.9	8.2	24.07	33.0	-8.9	
Mid Ch								
1732.50	9.58	V	0.9	8.2	16.88	33.0	-16.1	
1732.50	17.81	H	0.9	8.2	25.11	33.0	-7.9	
High Ch								
1754.30	7.70	V	0.9	8.2	15.00	33.0	-18.0	
1754.30	16.24	H	0.9	8.2	23.54	33.0	-9.5	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

15MHz

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 15MHz 16QAM 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								
1857.50	9.10	V	0.9	7.9	16.10	33.0	-16.9	
1857.50	18.35	H	0.9	7.9	25.35	33.0	-7.7	
Mid Ch								
1880.00	8.57	V	0.9	7.9	15.57	33.0	-17.4	
1880.00	17.35	H	0.9	7.9	24.35	33.0	-8.7	
High Ch								
1902.50	8.80	V	0.9	7.9	15.80	33.0	-17.2	
1902.50	18.36	H	0.9	7.9	25.36	33.0	-7.6	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

5MHz

QPSK

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 5MHz 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								
1852.50	16.10	V	0.9	7.9	23.10	33.0	-9.9	
1852.50	19.28	H	0.9	7.9	26.28	33.0	-6.7	
Mid Ch								
1880.00	16.06	V	0.9	7.9	23.06	33.0	-9.9	
1880.00	18.76	H	0.9	7.9	25.76	33.0	-7.2	
High Ch								
1907.50	15.60	V	0.9	7.9	22.60	33.0	-10.4	
1907.50	19.24	H	0.9	7.9	26.24	33.0	-6.8	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

3MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber B

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

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								
1851.50	16.30	V	0.9	7.9	23.30	33.0	-9.7	
1851.50	17.69	H	0.9	7.9	24.69	33.0	-8.3	
Mid Ch								
1880.00	15.96	V	0.9	7.9	22.96	33.0	-10.0	
1880.00	16.87	H	0.9	7.9	23.87	33.0	-9.1	
High Ch								
1908.50	15.70	V	0.9	7.9	22.70	33.0	-10.3	
1908.50	17.47	H	0.9	7.9	24.47	33.0	-8.5	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

3MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber B

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Sony

14U17933

08/13/14

K. Ros

EUT only, X-pos

LTE 2 3MHz 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								
1851.50	17.40	V	0.9	7.9	24.40	33.0	-8.6	
1851.50	18.93	H	0.9	7.9	25.93	33.0	-7.1	
Mid Ch								
1880.00	16.85	V	0.9	7.9	23.85	33.0	-9.2	
1880.00	17.82	H	0.9	7.9	24.82	33.0	-8.2	
High Ch								
1908.50	16.50	V	0.9	7.9	23.50	33.0	-9.5	
1908.50	18.41	H	0.9	7.9	25.41	33.0	-7.6	

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

Company: Sony

Project #: 14U17933

Date: 08/13/14

Test Engineer: K. Ros

Configuration: EUT only, X-pos

Mode: LTE 2 1.4MHz 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								
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

Band

Band 2

HSDPA

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber C

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Sony

14U17933

08/13/14

T. Oeur, K.Huynh

EUT

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 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 MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	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									

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: Project #: Date: Test Engineer: Configuration: Mode:		Sony 14U17933 08/15/14 O. Stoelting X Position, EUT w/ AC Adaptor and HS LTE17 10M 16QAM HARM							
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 27			
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
	2.127	-32.8	H	3.0	36.7	1.0	-68.5	-13.0	-55.5
16QAM	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
LTE17 10MHz QPSK	Low Ch, 709MHz									
	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	
	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	
	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
LTE17 5MHz QPSK	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	
	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	
	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 LTE13 10MHz 16QAM	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	
	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
LTE13 10MHz QPSK	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	-39.7	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: Project #: Date: Test Engineer: Configuration: Mode:		Sony 14U17933 08/15/15 G. Chan, L. Lee X-Pos EUT w/ AC charger 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	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_ 16QAM										
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	-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	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Band LTE13 5MHz QPSK GPS band emission	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 10MHz 16QAM 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		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)										
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.										

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_QPSK								
Band									
LTE13									
10MHz									
QPSK GPS band emission									
	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)									
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 20MHz QPSK	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	
	10.040	-22.4	V	3.0	35.3	1.0	-56.7	-25.0	-31.7	
	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	
	10.040	-21.7	H	3.0	35.3	1.0	-56.0	-25.0	-31.0	
	Mid Ch, 2535.0MHz									
	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	
	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 15MHz 16QAM	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	
	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	
	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 15MHz QPSK	Low Ch, 2507.5MHz									
	5.015	-21.2	V	3.0	34.8	1.0	-54.9	-25.0	-29.9	
	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	
	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: Project #: Date: Test Engineer: Configuration: Mode:		Sony 14U17933 08/14/14 G. Chan, L. Lee X-Pos EUT w/ AC charger 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.										