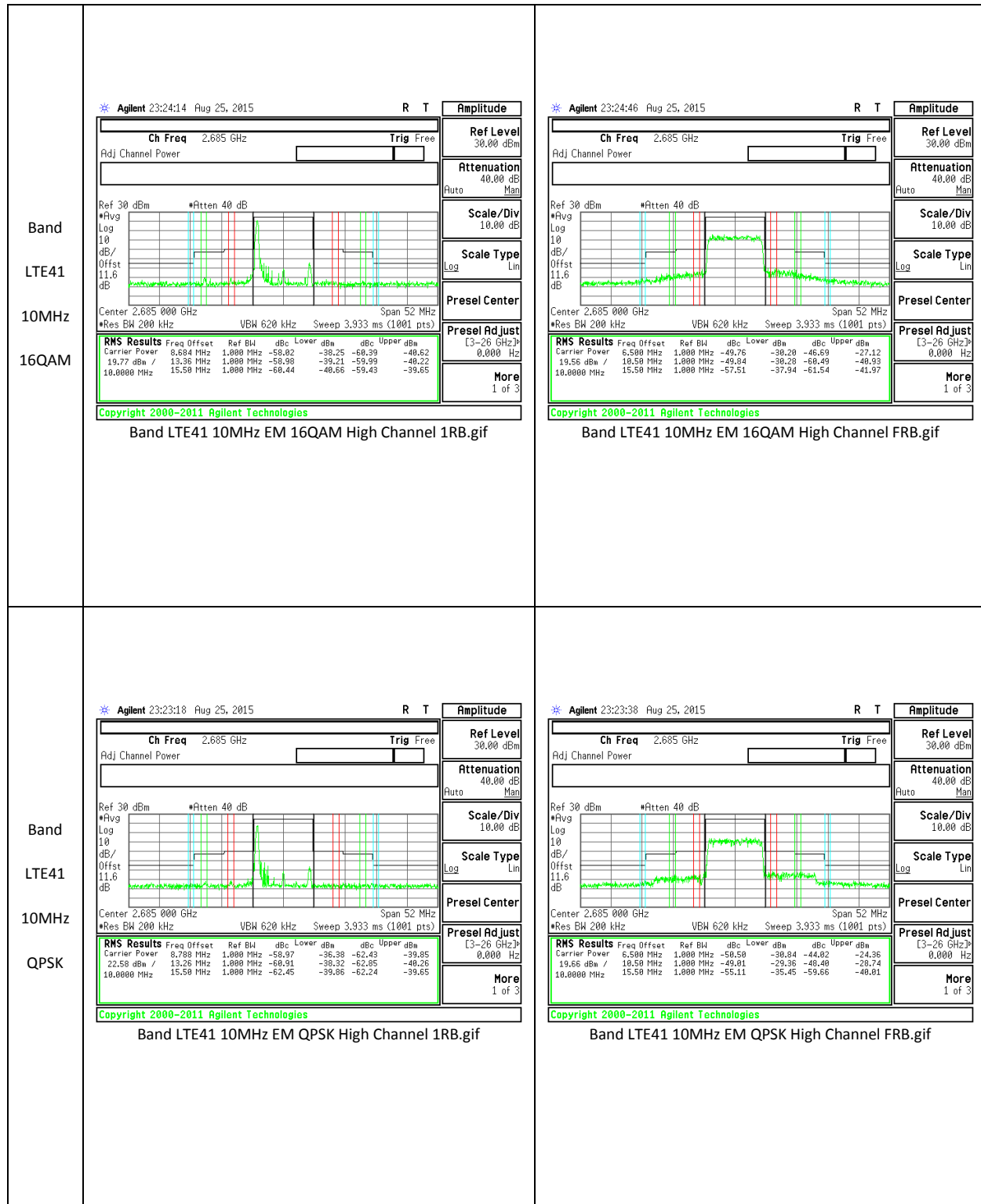
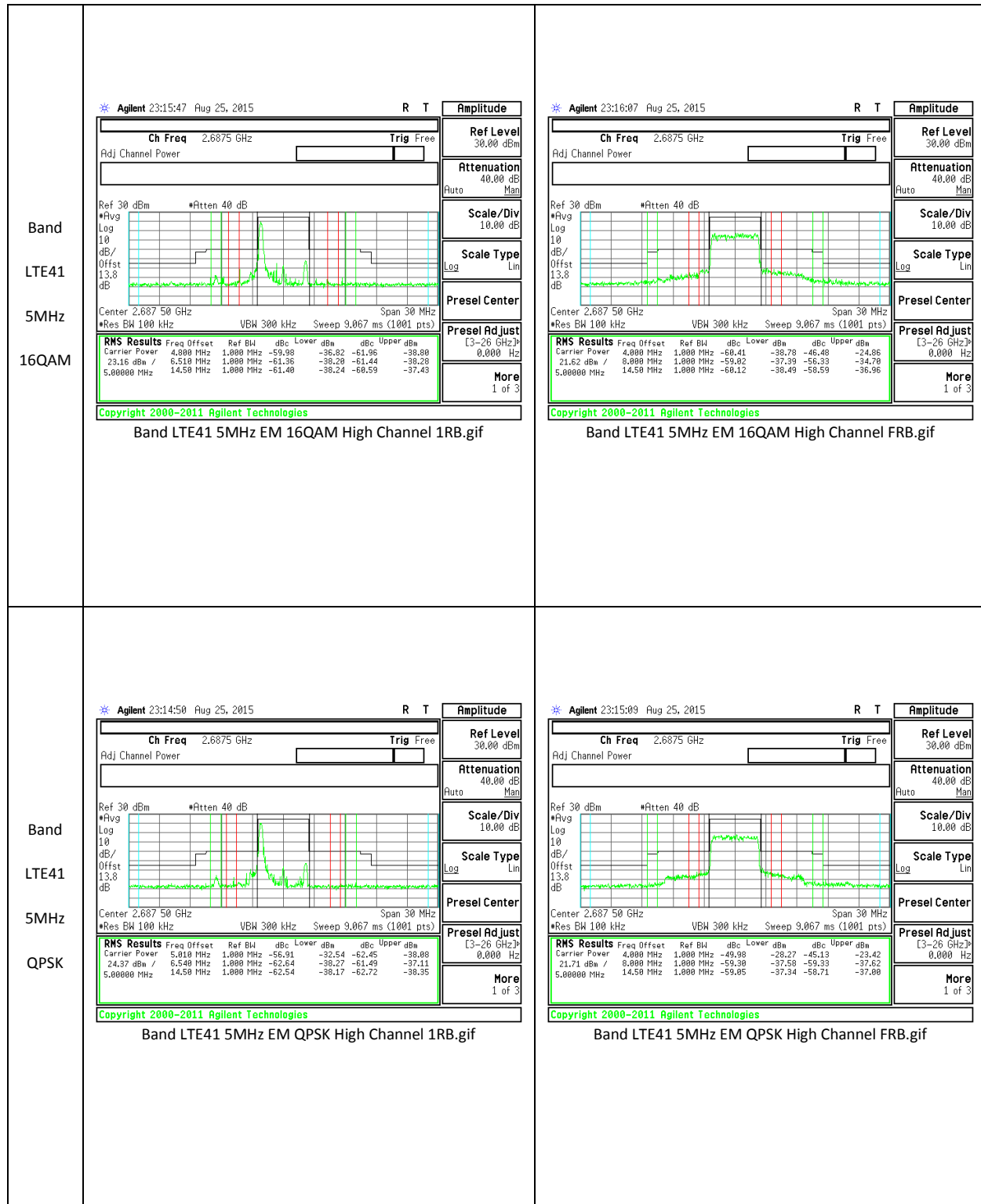


<p>Band LTE41 10MHz 16QAM</p>	<p>Agilent 23:22:13 Aug 25, 2015</p> <p>Ch Freq 2.501 GHz Trig Free</p> <p>Ref Level 30.00 dBm</p> <p>Attenuation 40.00 dB</p> <p>Scale/Div 10.00 dB</p> <p>Scale Type Lin</p> <p>Presel Center</p> <p>Presel Adj Just [3-28 (GHz)] 0.0000 Hz</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower dBc</th> <th>dBc</th> <th>Upper dBc</th> </tr> </thead> <tbody> <tr> <td>21.50 dBm / 10.0000 MHz</td> <td>13.42 MHz</td> <td>1.000 MHz</td> <td>-68.89</td> <td>-39.39</td> <td>-68.71</td> <td>-39.21</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 10MHz EM 16QAM Low Channel 1RB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBc	dBc	Upper dBc	21.50 dBm / 10.0000 MHz	13.42 MHz	1.000 MHz	-68.89	-39.39	-68.71	-39.21	<p>Agilent 23:22:33 Aug 25, 2015</p> <p>Ch Freq 2.501 GHz Trig Free</p> <p>Ref Level 30.00 dBm</p> <p>Attenuation 40.00 dB</p> <p>Scale/Div 10.00 dB</p> <p>Scale Type Lin</p> <p>Presel Center</p> <p>Presel Adj Just [3-28 (GHz)] 0.0000 Hz</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower dBc</th> <th>dBc</th> <th>Upper dBc</th> </tr> </thead> <tbody> <tr> <td>19.61 dBm / 10.0000 MHz</td> <td>6.500 MHz</td> <td>1.000 MHz</td> <td>-48.50</td> <td>-28.89</td> <td>-47.79</td> <td>-28.18</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 10MHz EM 16QAM Low Channel FRB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBc	dBc	Upper dBc	19.61 dBm / 10.0000 MHz	6.500 MHz	1.000 MHz	-48.50	-28.89	-47.79	-28.18
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<p>Band LTE41 10MHz QPSK</p>	<p>Agilent 23:21:10 Aug 25, 2015</p> <p>Ch Freq 2.501 GHz Trig Free</p> <p>Ref Level 30.00 dBm</p> <p>Attenuation 40.00 dB</p> <p>Scale/Div 10.00 dB</p> <p>Scale Type Lin</p> <p>Presel Center</p> <p>Presel Adj Just [3-28 (GHz)] 0.0000 Hz</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower dBc</th> <th>dBc</th> <th>Upper dBc</th> </tr> </thead> <tbody> <tr> <td>20.71 dBm / 10.0000 MHz</td> <td>8.396 MHz</td> <td>1.000 MHz</td> <td>-57.65</td> <td>-36.94</td> <td>-59.15</td> <td>-38.45</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 10MHz EM QPSK Low Channel 1RB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBc	dBc	Upper dBc	20.71 dBm / 10.0000 MHz	8.396 MHz	1.000 MHz	-57.65	-36.94	-59.15	-38.45	<p>Agilent 23:21:29 Aug 25, 2015</p> <p>Ch Freq 2.501 GHz Trig Free</p> <p>Ref Level 30.00 dBm</p> <p>Attenuation 40.00 dB</p> <p>Scale/Div 10.00 dB</p> <p>Scale Type Lin</p> <p>Presel Center</p> <p>Presel Adj Just [3-28 (GHz)] 0.0000 Hz</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower dBc</th> <th>dBc</th> <th>Upper dBc</th> </tr> </thead> <tbody> <tr> <td>20.54 dBm / 10.0000 MHz</td> <td>6.500 MHz</td> <td>1.000 MHz</td> <td>-51.07</td> <td>-30.53</td> <td>-51.39</td> <td>-30.85</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 10MHz EM QPSK Low Channel FRB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBc	dBc	Upper dBc	20.54 dBm / 10.0000 MHz	6.500 MHz	1.000 MHz	-51.07	-30.53	-51.39	-30.85
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<p>Band LTE41 5MHz 16QAM</p>	<p>Agilent 23:11:33 Aug 25, 2015</p> <p>Ch Freq 2.4985 GHz</p> <p>Ref Level 30.00 dBm</p> <p>Attenuation 40.00 dB</p> <p>Scale/Div 10.00 dB</p> <p>Scale Type Lin</p> <p>Presel Center</p> <p>Presel Adj Just [3-28 GHz] 0.0000 Hz</p> <p>RFS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower dBc</th> <th>Upper dBc</th> </tr> </thead> <tbody> <tr> <td>24.34 dBm</td> <td>6.360 MHz</td> <td>1.000 MHz</td> <td>-61.69</td> <td>-37.35</td> <td>-61.23</td> </tr> <tr> <td>5.00000 MHz</td> <td></td> <td></td> <td></td> <td>-37.73</td> <td>-59.66</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 5MHz EM 16QAM Low Channel 1RB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBc	Upper dBc	24.34 dBm	6.360 MHz	1.000 MHz	-61.69	-37.35	-61.23	5.00000 MHz				-37.73	-59.66	<p>Agilent 23:12:44 Aug 25, 2015</p> <p>Ch Freq 2.4985 GHz</p> <p>Ref Level 30.00 dBm</p> <p>Attenuation 40.00 dB</p> <p>Scale/Div 10.00 dB</p> <p>Scale Type Lin</p> <p>Presel Center</p> <p>Presel Adj Just [3-28 GHz] 0.0000 Hz</p> <p>RFS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower dBc</th> <th>Upper dBc</th> </tr> </thead> <tbody> <tr> <td>21.99 dBm</td> <td>8.500 MHz</td> <td>1.000 MHz</td> <td>-60.09</td> <td>-38.10</td> <td>-59.26</td> </tr> <tr> <td>5.00000 MHz</td> <td></td> <td></td> <td></td> <td>-37.17</td> <td>-48.40</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>-38.10</td> <td>-59.26</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 5MHz EM 16QAM Low Channel FRB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBc	Upper dBc	21.99 dBm	8.500 MHz	1.000 MHz	-60.09	-38.10	-59.26	5.00000 MHz				-37.17	-48.40					-38.10	-59.26
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10.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53 and §90.691

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) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

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.

MODES TESTED

GSM, WCDMA, CDMA, and LTE

RESULTS

10.3.1. OUT OF BAND EMISSIONS RESULT

GSM

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
GSM 850	GPRS	824.2	-22.422	-13	-9.422
		836.6	-22.822	-13	-9.822
		848.8	-23.599	-13	-10.599
	EGPRS	824.2	-22.406	-13	-9.406
		836.6	-23.356	-13	-10.356
		848.8	-22.592	-13	-9.592
GSM 1900	GPRS	1850.2	-23.445	-13	-10.445
		1880	-22.625	-13	-9.625
		1909.8	-22.594	-13	-9.594
	EGPRS	1850.2	-21.879	-13	-8.879
		1880	-22.822	-13	-9.822
		1909.8	-22.426	-13	-9.426

WCDMA

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
Band 5	REL99	826.4	-22.497	-13	-9.497
		836.6	-22.461	-13	-9.461
		846.6	-21.627	-13	-8.627
	HSDPA	826.4	-21.772	-13	-8.772
		836.6	-22.616	-13	-9.616
		846.6	-22.475	-13	-9.475
Band 4	REL99	1712.4	-24.471	-13	-11.471
		1732.6	-24.892	-13	-11.892
		1752.6	-24.695	-13	-11.695
	HSDPA	1712.4	-24.836	-13	-11.836
		1732.6	-24.388	-13	-11.388
		1752.6	-23.801	-13	-10.801
Band 2	REL99	1852.4	-21.539	-13	-8.539
		1880	-21.643	-13	-8.643
		1907.6	-21.976	-13	-8.976
	HSDPA	1852.4	-21.785	-13	-8.785
		1880	-21.599	-13	-8.599
		1907.6	-21.556	-13	-8.556

CDMA

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
BC10	1xRTT	817.9	-19.95	-13	-6.95
		820.5	-20.10	-13	-7.10
		823.1	-29.02	-13	-16.02
	EVDO	817.9	-31.63	-13	-18.63
		820.5	-28.25	-13	-15.25
		823.1	-28.68	-13	-15.68
BC0	1xRTT	824.7	-28.34	-13	-15.34
		836.52	-22.16	-13	-9.16
		848.31	-32.27	-13	-19.27
	EVDO	824.7	-31.39	-13	-18.39
		836.52	-29.01	-13	-16.01
		848.31	-29.93	-13	-16.93
BC1	1xRTT	1851.25	-22.59	-13	-9.59
		1880	-19.58	-13	-6.58
		1908.75	-18.95	-13	-5.95
	EVDO	1851.25	-32.45	-13	-19.45
		1880	-34.58	-13	-21.58
		1908.75	-28.9	-13	-15.9

LTE Band 2

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	20	16QAM	1860	-23.47	-13	-10.47
			1880	-23.58	-13	-10.58
			1900	-23.15	-13	-10.15
		QPSK	1860	-23.46	-13	-10.46
			1880	-23.55	-13	-10.55
			1900	-24.05	-13	-11.05
	15	16QAM	1857.5	-24.67	-13	-11.67
			1880	-23.73	-13	-10.73
			1902.5	-23.87	-13	-10.87
		QPSK	1857.5	-23.51	-13	-10.51
			1880	-23.89	-13	-10.89
			1902.5	-24.20	-13	-11.20
	10	16QAM	1855	-23.19	-13	-10.19
			1880	-23.85	-13	-10.85
			1905	-24.39	-13	-11.39
		QPSK	1855	-23.40	-13	-10.40
			1880	-23.88	-13	-10.88
			1905	-23.99	-13	-10.99
	5	16QAM	1852.5	-23.89	-13	-10.89
			1880	-23.47	-13	-10.47
			1907.5	-24.21	-13	-11.21
		QPSK	1852.5	-24.62	-13	-11.62
			1880	-23.45	-13	-10.45
			1907.5	-24.06	-13	-11.06

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	3	16QAM	1851.5	-23.39	-13	-10.39
			1880	-24.70	-13	-11.70
			1908.5	-24.18	-13	-11.18
		QPSK	1851.5	-24.33	-13	-11.33
			1880	-23.66	-13	-10.66
			1908.5	-24.21	-13	-11.21
	1.4	16QAM	1850.7	-23.64	-13	-10.64
			1880	-23.90	-13	-10.90
			1909.3	-24.18	-13	-11.18
		QPSK	1850.7	-24.22	-13	-11.22
			1880	-23.77	-13	-10.77
			1909.3	-23.60	-13	-10.60

LTE Band 4

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	20	16QAM	1720	-23.75	-13	-10.75
			1732.5	-23.33	-13	-10.33
			1745	-23.99	-13	-10.99
		QPSK	1720	-22.69	-13	-9.69
			1732.5	-23.97	-13	-10.97
			1745	-24.24	-13	-11.24
	15	16QAM	1717.5	-23.65	-13	-10.65
			1732.5	-24.02	-13	-11.02
			1747.5	-24.06	-13	-11.06
		QPSK	1717.5	-24.30	-13	-11.30
			1732.5	-24.39	-13	-11.39
			1747.5	-24.53	-13	-11.53
	10	16QAM	1715	-24.10	-13	-11.10
			1732.5	-23.02	-13	-10.02
			1750	-23.80	-13	-10.80
		QPSK	1715	-23.36	-13	-10.36
			1732.5	-23.85	-13	-10.85
			1750	-23.06	-13	-10.06
	5	16QAM	1712.5	-22.95	-13	-9.95
			1732.5	-22.68	-13	-9.68
			1752.5	-23.51	-13	-10.51
		QPSK	1712.5	-23.13	-13	-10.13
			1732.5	-24.35	-13	-11.35
			1752.5	-24.35	-13	-11.35

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	3	16QAM	1711.5	-24.01	-13	-11.01
			1732.5	-23.74	-13	-10.74
			1753.5	-23.76	-13	-10.76
		QPSK	1711.5	-24.26	-13	-11.26
			1732.5	-24.37	-13	-11.37
			1753.5	-24.63	-13	-11.63
	1.4	16QAM	1710.7	-23.54	-13	-10.54
			1732.5	-24.40	-13	-11.40
			1754.3	-24.47	-13	-11.47
		QPSK	1710.7	-24.26	-13	-11.26
			1732.5	-24.90	-13	-11.90
			1754.3	-24.50	-13	-11.50

LTE Band 5

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	10	16QAM	829	-24.203	-13	-11.203
			836.5	-23.606	-13	-10.606
			844	-24.649	-13	-11.649
		QPSK	829	-23.997	-13	-10.997
			836.5	-24.629	-13	-11.629
			844	-23.699	-13	-10.699
	5	16QAM	826.5	-23.817	-13	-10.817
			836.5	-24.278	-13	-11.278
			846.5	-24.505	-13	-11.505
		QPSK	826.5	-23.917	-13	-10.917
			836.5	-23.857	-13	-10.857
			846.5	-23.995	-13	-10.995
	3	16QAM	825.5	-24.346	-13	-11.346
			836.5	-24.562	-13	-11.562
			847.5	-24.698	-13	-11.698
		QPSK	825.5	-24.654	-13	-11.654
			836.5	-24.463	-13	-11.463
			847.5	-24.522	-13	-11.522
	1.4	16QAM	824.7	-24.157	-13	-11.157
			836.5	-23.952	-13	-10.952
			848.3	-24.002	-13	-11.002
		QPSK	824.7	-23.762	-13	-10.762
			836.5	-24.568	-13	-11.568
			848.3	-24.589	-13	-11.589

LTE Band 7

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE7	20	16QAM	2510	-33.51	-25	-8.51
			2535	-33.70	-25	-8.70
			2560	-33.18	-25	-8.18
		QPSK	2510	-33.83	-25	-8.83
			2535	-34.26	-25	-9.26
			2560	-34.03	-25	-9.03
	15	16QAM	2507.5	-33.85	-25	-8.85
			2535	-34.25	-25	-9.25
			2562.5	-33.78	-25	-8.78
		QPSK	2507.5	-34.09	-25	-9.09
			2535	-32.89	-25	-7.89
			2562.5	-34.20	-25	-9.20
	10	16QAM	2505	-33.89	-25	-8.89
			2535	-33.12	-25	-8.12
			2565	-33.28	-25	-8.28
		QPSK	2505	-34.05	-25	-9.05
			2535	-34.02	-25	-9.02
			2565	-30.94	-25	-5.94
	5	16QAM	2502.5	-33.99	-25	-8.99
			2535	-34.43	-25	-9.43
			2567.5	-33.94	-25	-8.94
		QPSK	2502.5	-33.99	-25	-8.99
			2535	-34.75	-25	-9.75
			2567.5	-33.91	-25	-8.91

LTE Band 12

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE12	10	16QAM	704	-32.28	-13	-19.28
			707.5	-33.07	-13	-20.07
			711	-32.84	-13	-19.84
		QPSK	704	-32.49	-13	-19.49
			707.5	-33.39	-13	-20.39
			711	-33.24	-13	-20.24
	5	16QAM	701.5	-33.29	-13	-20.29
			707.5	-32.96	-13	-19.96
			713.5	-33.57	-13	-20.57
		QPSK	701.5	-33.38	-13	-20.38
			707.5	-32.76	-13	-19.76
			713.5	-32.91	-13	-19.91
	3	16QAM	700.5	-32.70	-13	-19.70
			707.5	-32.71	-13	-19.71
			714.5	-32.78	-13	-19.78
		QPSK	700.5	-32.74	-13	-19.74
			707.5	-32.90	-13	-19.90
			714.5	-32.66	-13	-19.66
	1.4	16QAM	699.7	-32.69	-13	-19.69
			707.5	-33.04	-13	-20.04
			715.3	-32.81	-13	-19.81
		QPSK	699.7	-32.47	-13	-19.47
			707.5	-33.35	-13	-20.35
			715.3	-33.42	-13	-20.42

LTE Band 13

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
13	10	16QAM	782	-24.8	-13	-11.8
		QPSK	782	-23.93	-13	-10.93
	5	16QAM	779.5	-24.37	-13	-11.37
			785	-24.57	-13	-11.57
			784.5	-24.6	-13	-11.6
		QPSK	779.5	-24.33	-13	-11.33
			785	-23.83	-13	-10.83
			784.5	-24.3	-13	-11.3

LTE Band 17

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE17	10	16QAM	710	-24.04	-13	-11.04
		QPSK	710	-24.72	-13	-11.72
	5	16QAM	706.5	-24.64	-13	-11.64
			710	-24.68	-13	-11.68
			713.5	-23.71	-13	-10.71
		QPSK	706.5	-25.08	-13	-12.08
			710	-23.77	-13	-10.77
			713.5	-24.27	-13	-11.27

LTE Band 25

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	20	16QAM	1860	-30.14	-13	-17.14
			1882.5	-30.71	-13	-17.71
			1905	-30.14	-13	-17.14
		QPSK	1860	-30.2	-13	-17.2
			1882.5	-30.48	-13	-17.48
			1905	-29.63	-13	-16.63
	15	16QAM	1857.5	-30.39	-13	-17.39
			1882.5	-29.77	-13	-16.77
			1907.5	-28.57	-13	-15.57
		QPSK	1857.5	-30.22	-13	-17.22
			1882.5	-30.53	-13	-17.53
			1907.5	-29.8	-13	-16.8
	10	16QAM	1855	-30.02	-13	-17.02
			1882.5	-30.54	-13	-17.54
			1910	-30.01	-13	-17.01
		QPSK	1855	-30.21	-13	-17.21
			1882.5	-30.75	-13	-17.75
			1910	-29.63	-13	-16.63
	5	16QAM	1852.5	-29.49	-13	-16.49
			1882.5	-29.72	-13	-16.72
			1912.5	-29.57	-13	-16.57
		QPSK	1852.5	-30.09	-13	-17.09
			1882.5	-29.87	-13	-16.87
			1912.5	-29.49	-13	-16.49

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	3	16QAM	1851.5	-30.20	-13	-17.20
			1882.5	-30.69	-13	-17.69
			1913.5	-29.58	-13	-16.58
		QPSK	1851.5	-30.24	-13	-17.24
			1882.5	-30.03	-13	-17.03
			1913.5	-30.27	-13	-17.27
	1.4	16QAM	1850.7	-29.32	-13	-16.32
			1882.5	-30.16	-13	-17.16
			1914.3	-30.33	-13	-17.33
		QPSK	1850.7	-30.05	-13	-17.05
			1882.5	-29.79	-13	-16.79
			1914.3	-30.63	-13	-17.63

LTE Band 26

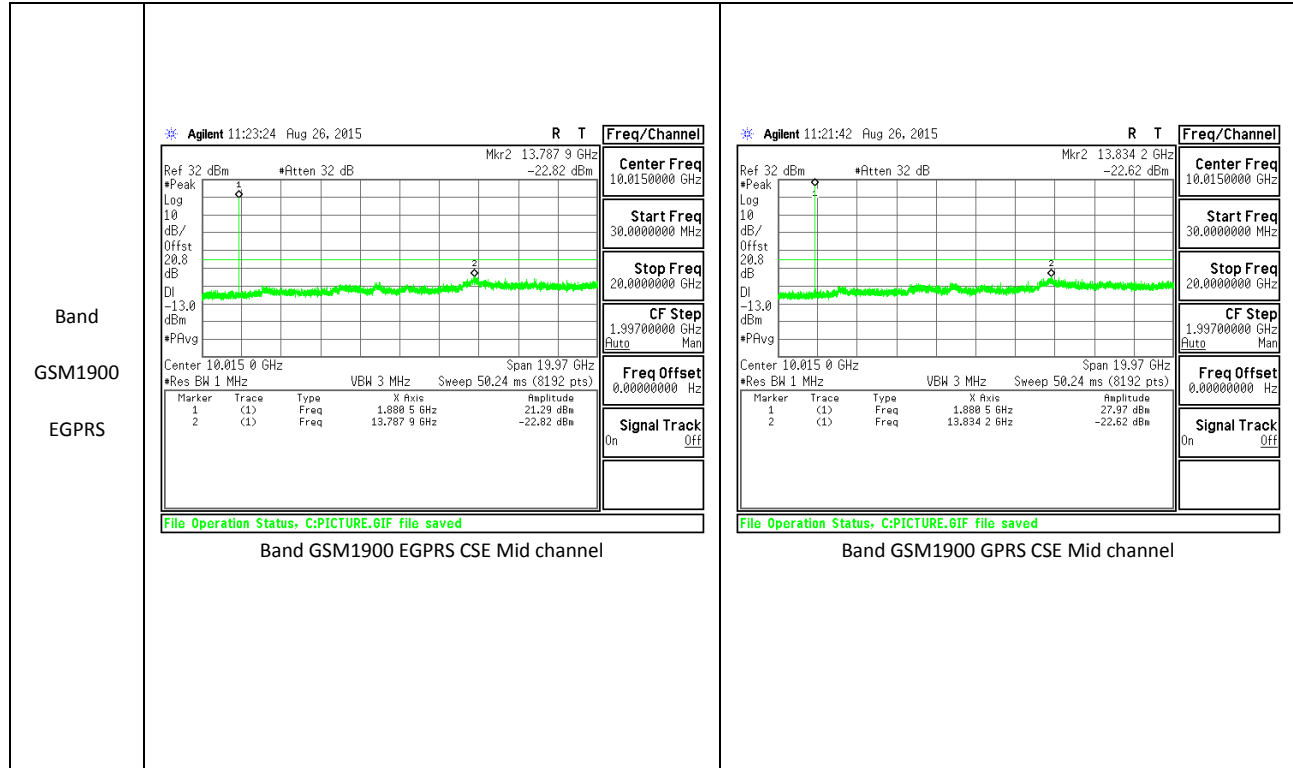
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE26	15	16QAM	831.5	-29.59	-13	-16.59
			836.5	-29.88	-13	-16.88
			841.5	-29.18	-13	-16.18
		QPSK	831.5	-29.38	-13	-16.38
			836.5	-29.14	-13	-16.14
			841.5	-29.29	-13	-16.29
	10	16QAM	819	-29.15	-13	-16.15
			831.5	-28.51	-13	-15.51
			844	-29.11	-13	-16.11
		QPSK	819	-28.95	-13	-15.95
			831.5	-28.2	-13	-15.2
			844	-29.25	-13	-16.25
	5	16QAM	816.5	-29.24	-13	-16.24
			831.5	-28.93	-13	-15.93
			846.5	-28.87	-13	-15.87
		QPSK	816.5	-28.73	-13	-15.73
			831.5	-29.07	-13	-16.07
			846.5	-29.98	-13	-16.98
	3	16QAM	815.5	-29.09	-13	-16.09
			831.5	-29.02	-13	-16.02
			847.5	-29.57	-13	-16.57
		QPSK	815.5	-28.5	-13	-15.5
			831.5	-29.31	-13	-16.31
			847.5	-29.62	-13	-16.62
	1.4	16QAM	814.7	-28.48	-13	-15.48
			831.5	-28.87	-13	-15.87
			848.3	-28.87	-13	-15.87
		QPSK	814.7	-29.16	-13	-16.16
			831.5	-29.39	-13	-16.39
			848.3	-28.83	-13	-15.83

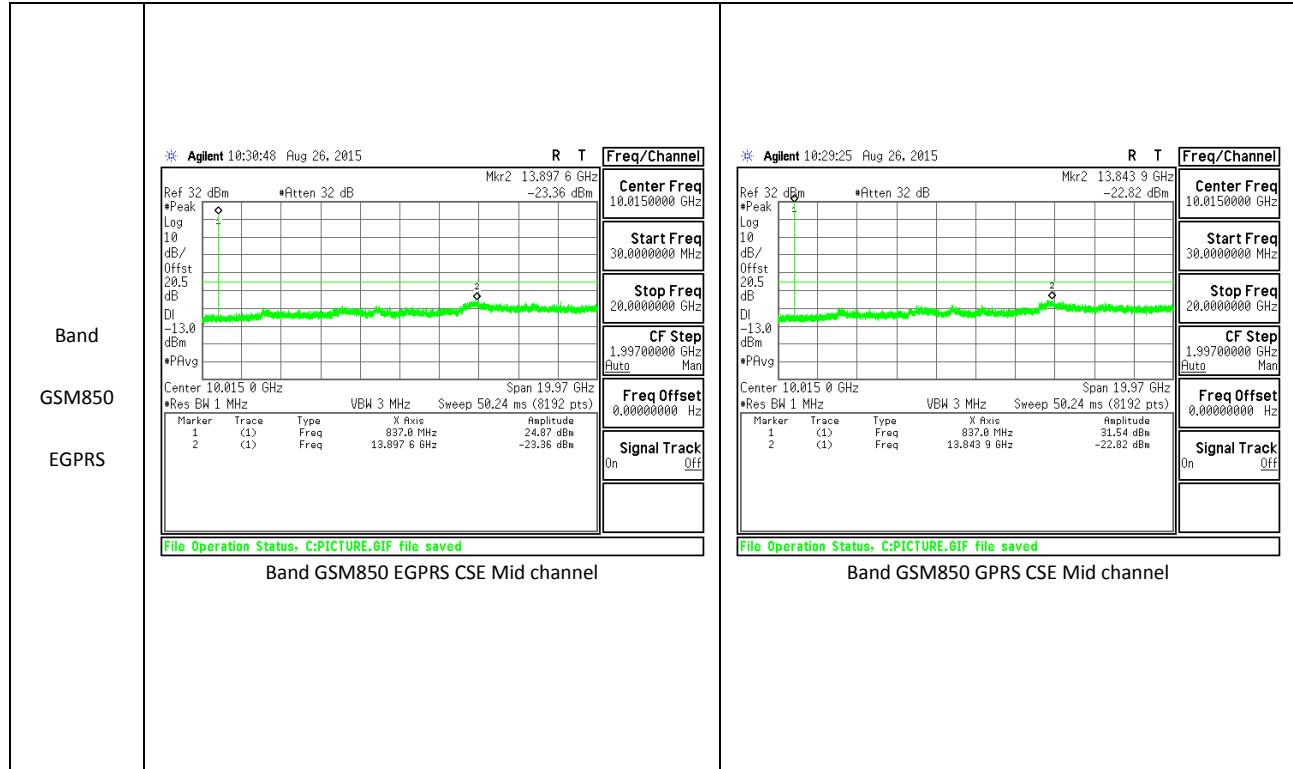
LTE Band 41

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE41	20	16QAM	2506	-29.11	-25	-4.11
			2593	-30.05	-25	-5.05
			2680	-30.58	-25	-5.58
		QPSK	2506	-29.48	-25	-4.48
			2593	-30.91	-25	-5.91
			2680	-31.50	-25	-6.50
	15	16QAM	2503.5	-29.90	-25	-4.90
			2593	-31.28	-25	-6.28
			2682.5	-29.65	-25	-4.65
		QPSK	2503.5	-29.60	-25	-4.60
			2593	-31.35	-25	-6.35
			2682.5	-29.27	-25	-4.27
	10	16QAM	2501	-30.26	-25	-5.26
			2593	-30.47	-25	-5.47
			2685	-29.24	-25	-4.24
		QPSK	2501	-31.18	-25	-6.18
			2593	-31.22	-25	-6.22
			2685	-28.22	-25	-3.22
	5	16QAM	2498.5	-31.35	-25	-6.35
			2593	-31.45	-25	-6.45
			2687.5	-31.85	-25	-6.85
		QPSK	2498.5	-31.27	-25	-6.27
			2593	-29.97	-25	-4.97
			2687.5	-31.31	-25	-6.31

10.3.2. OUT OF BAND EMISSIONS PLOTS

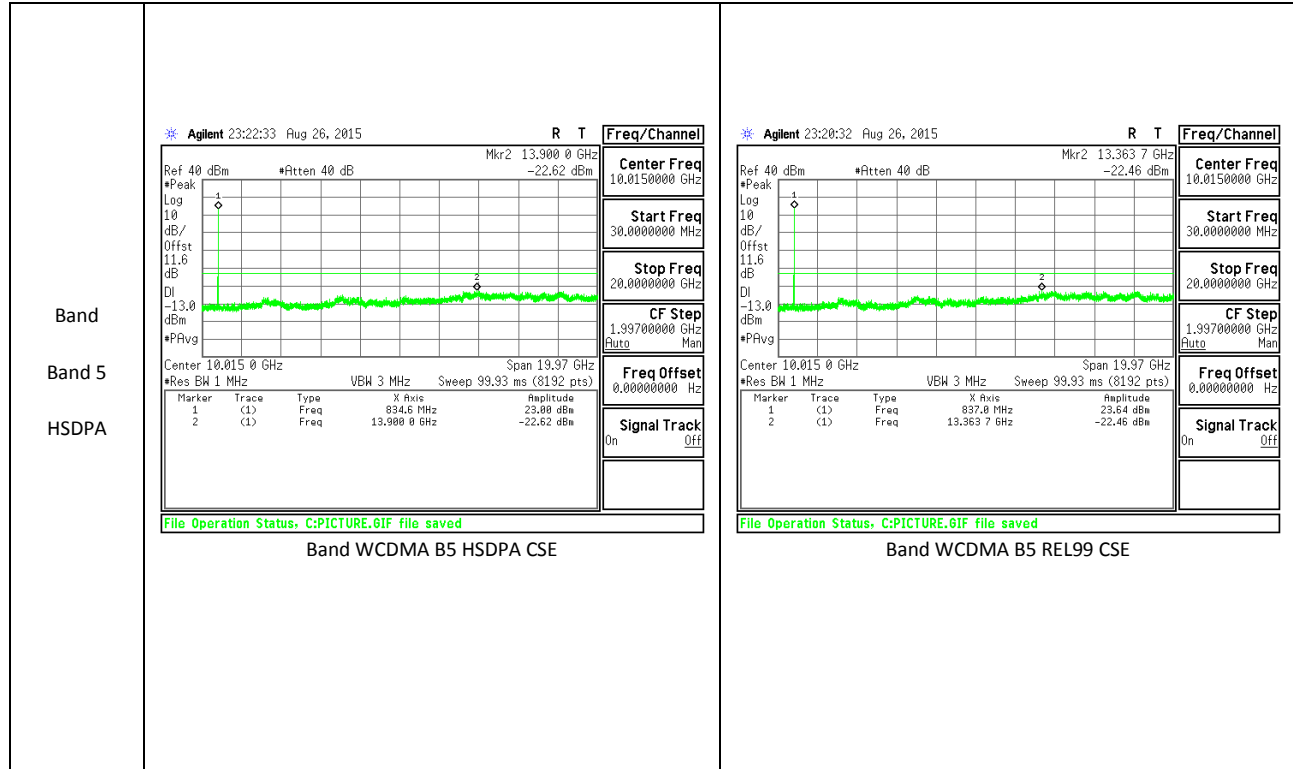
GSM



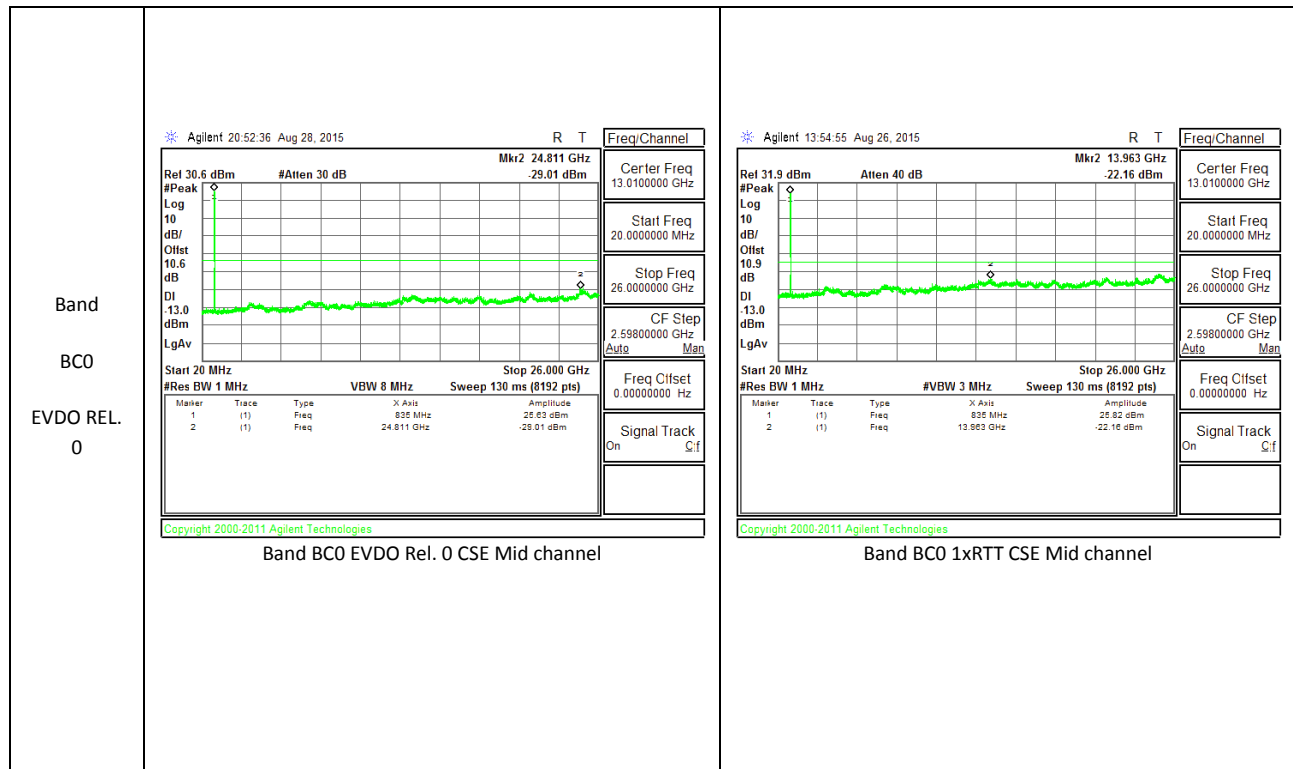
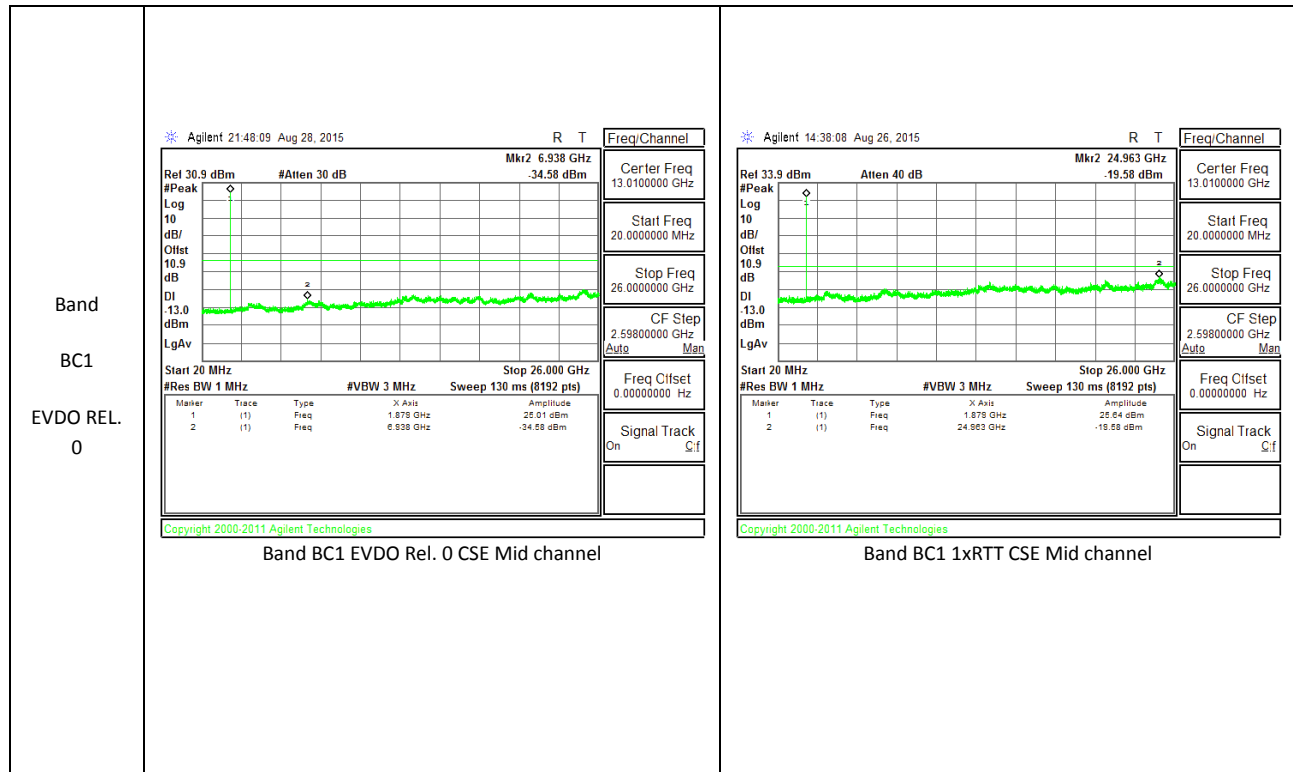


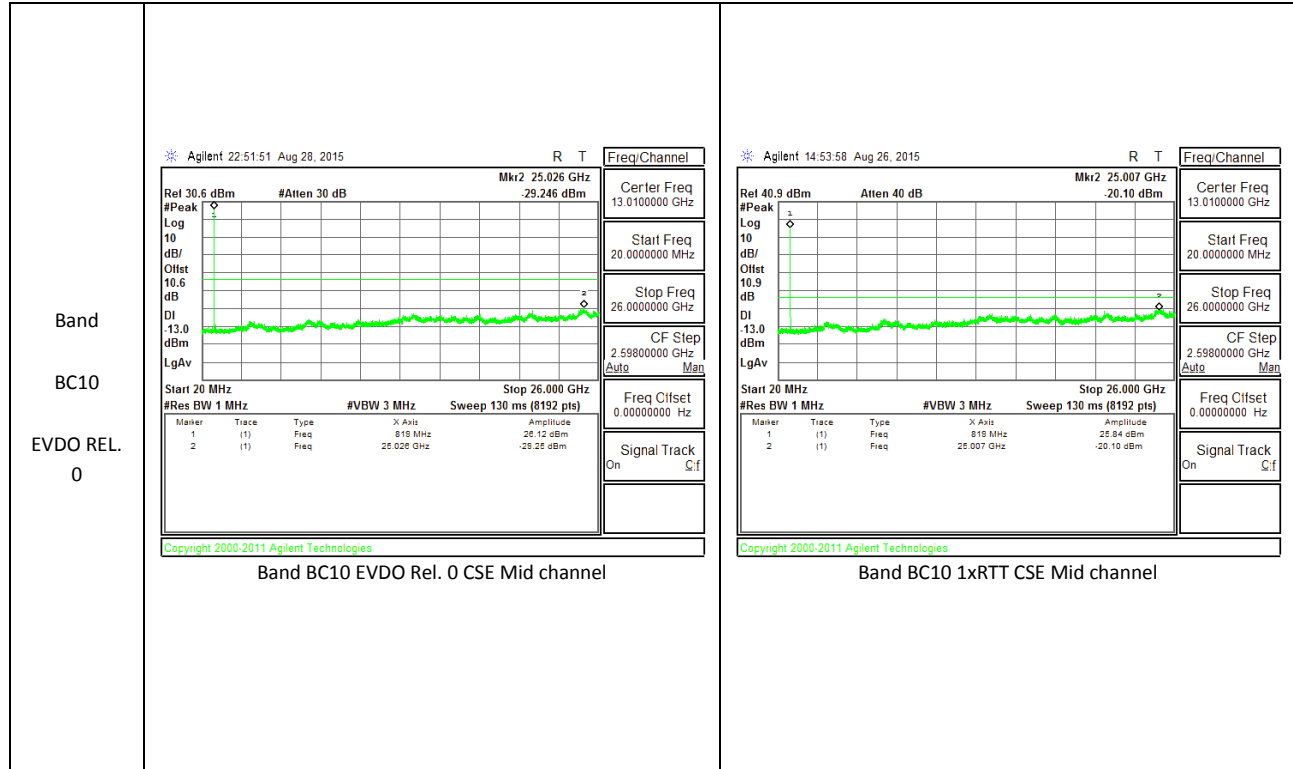
WCDMA

<p>Band Band 2 HSDPA</p>	<p>Agilent 22:52:53 Aug 26, 2015</p> <p>Center Freq 10.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 20.0000000 GHz CF Step 1.997000000 GHz Freq Offset 0.000000000 Hz Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band WCDMA B2 HSDPA CSE</p>	<p>Agilent 22:50:53 Aug 26, 2015</p> <p>Center Freq 10.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 20.0000000 GHz CF Step 1.997000000 GHz Freq Offset 0.000000000 Hz Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band WCDMA B2 REL99 CSE</p>
<p>Band Band 4 HSDPA</p>	<p>Agilent 16:52:39 Aug 26, 2015</p> <p>Center Freq 10.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 20.0000000 GHz CF Step 1.997000000 GHz Freq Offset 0.000000000 Hz Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band WCDMA B4 HSDPA CSE</p>	<p>Agilent 16:50:25 Aug 26, 2015</p> <p>Center Freq 10.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 20.0000000 GHz CF Step 1.997000000 GHz Freq Offset 0.000000000 Hz Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band WCDMA B4 REL99 CSE</p>

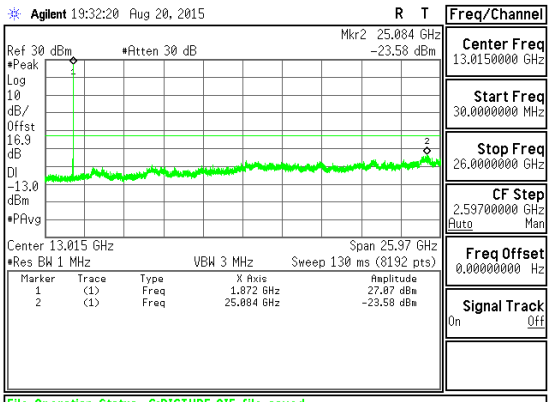
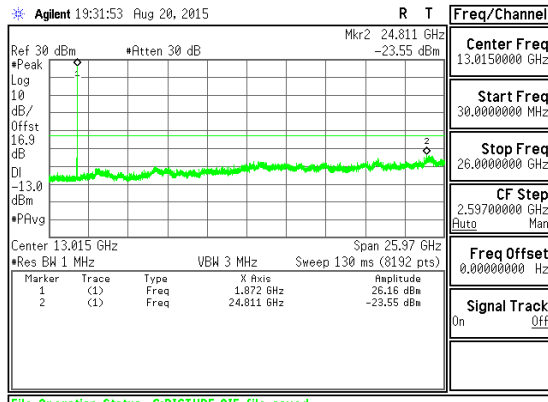
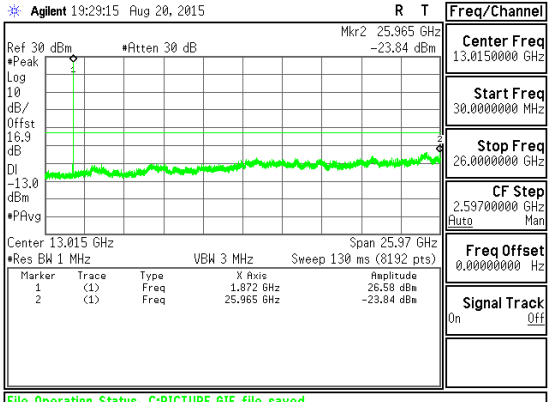
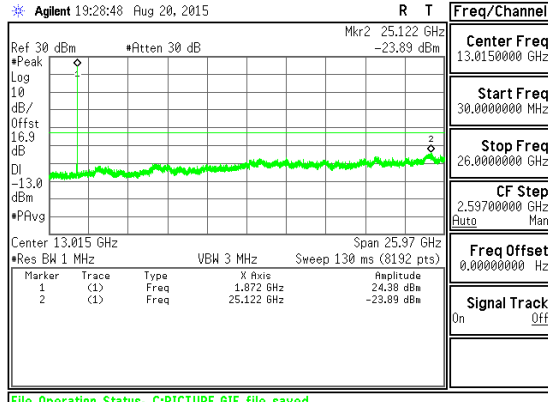


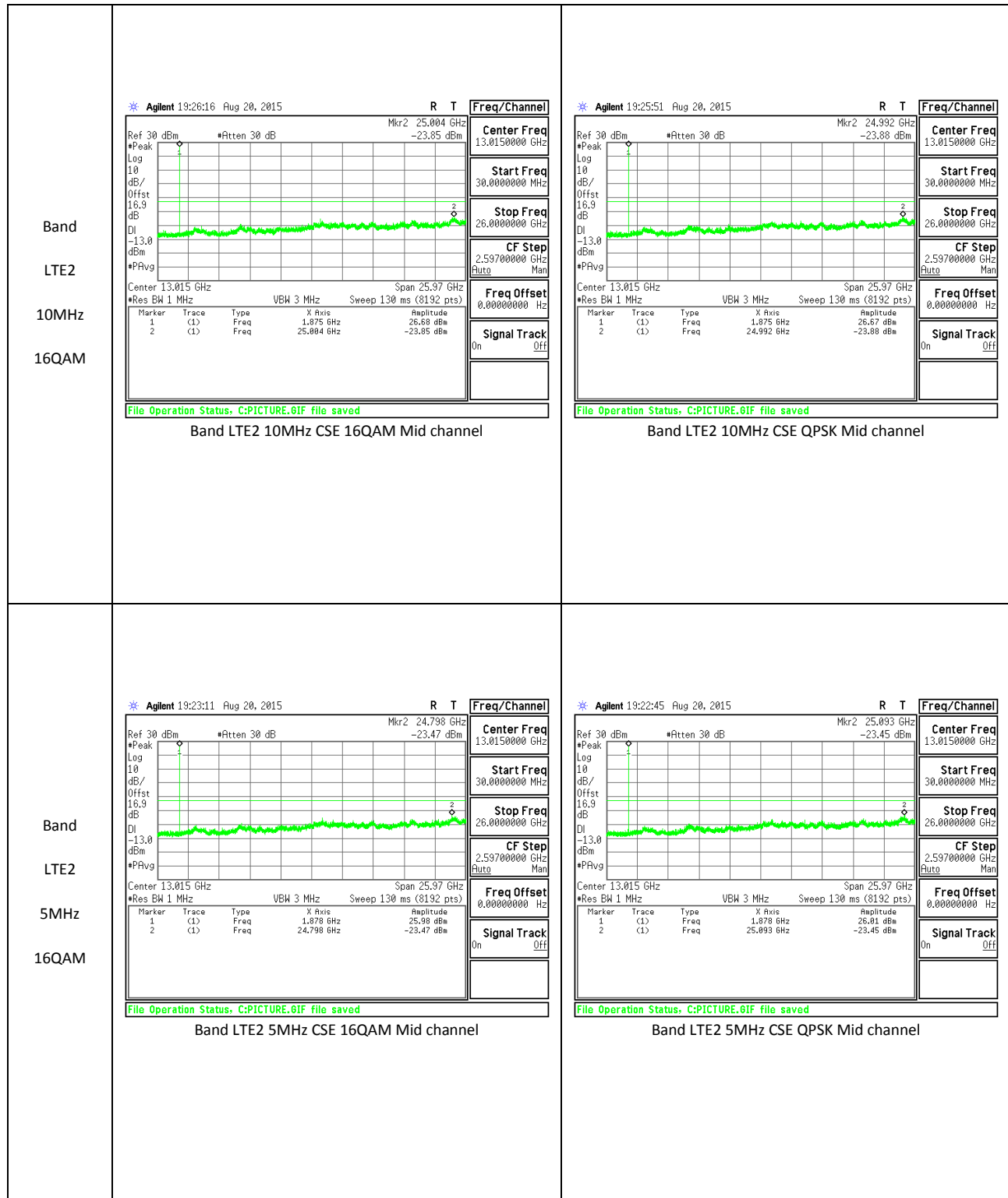
CDMA

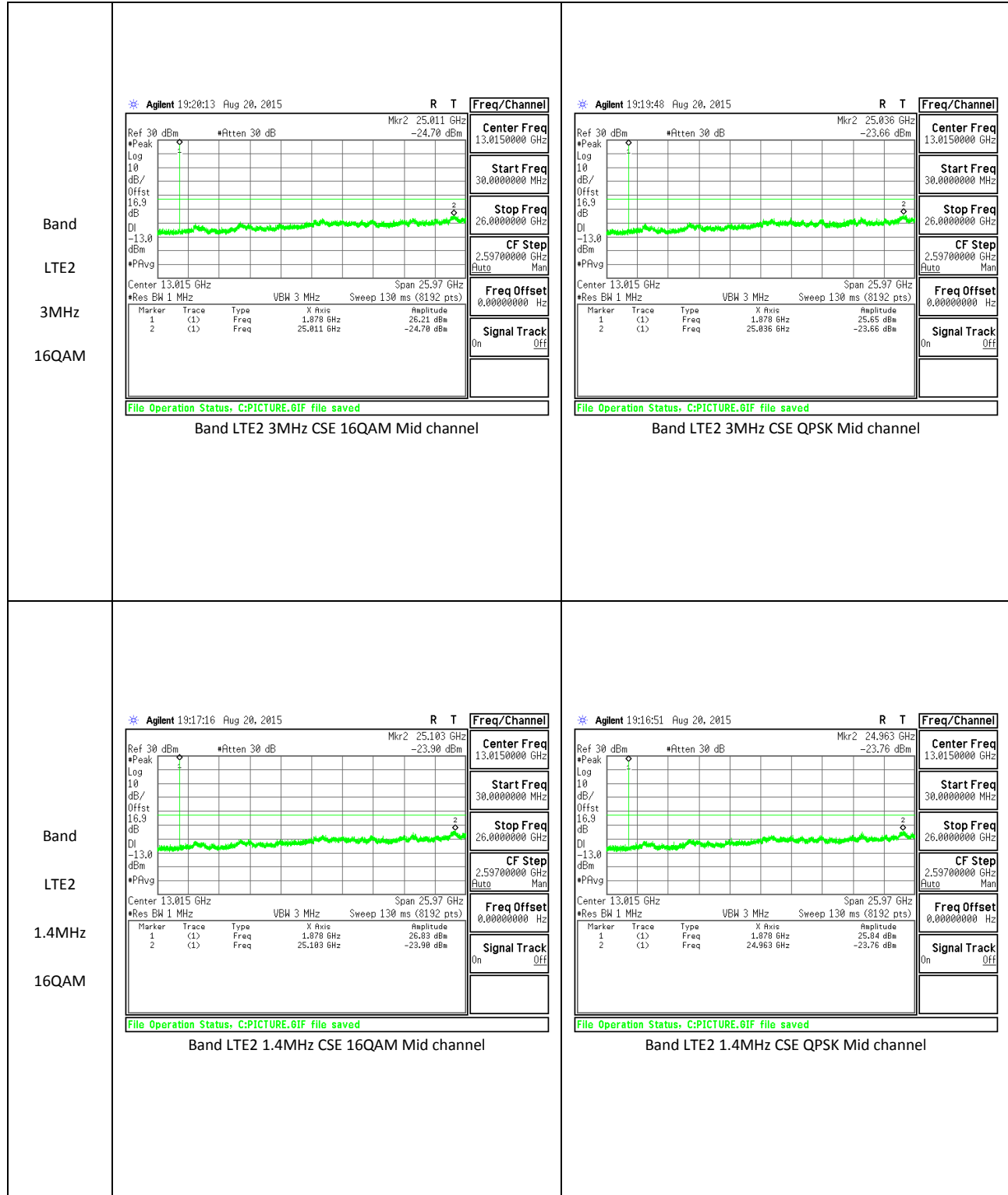




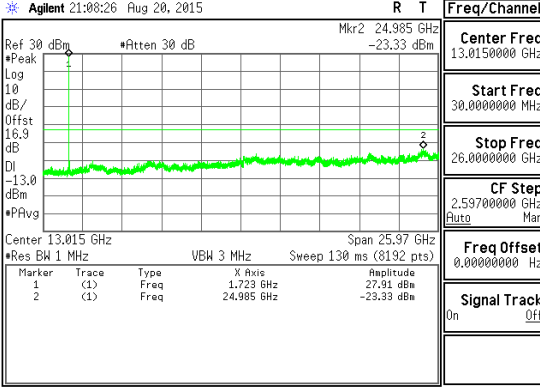
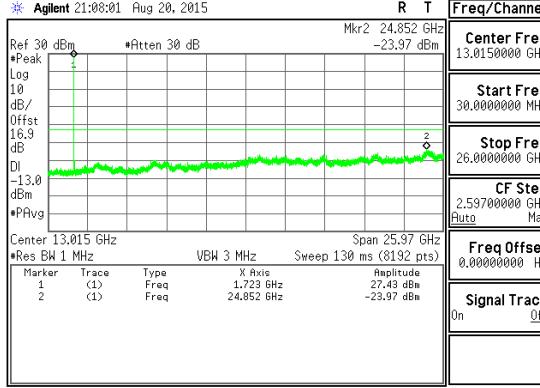
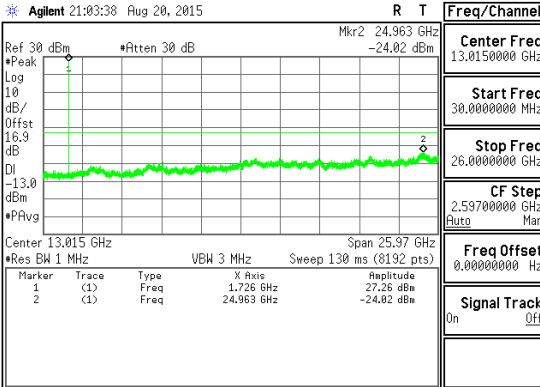
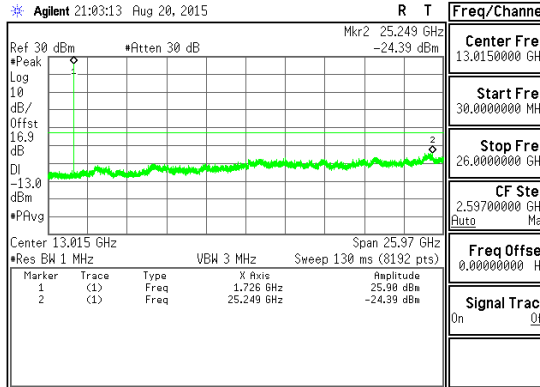
LTE Band 2

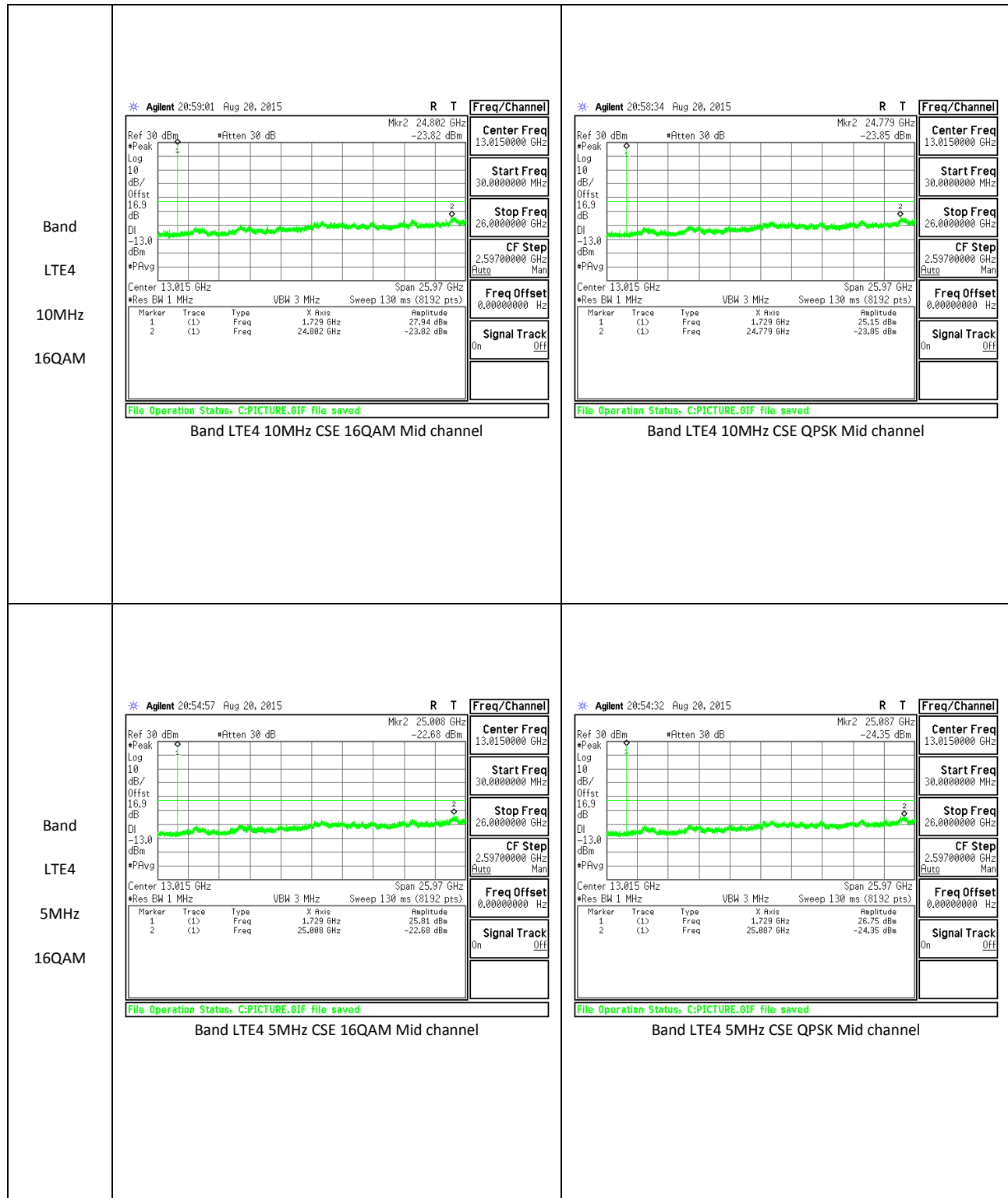
<p>Band LTE2 20MHz 16QAM</p>	 <p>Agilent 19:32:20 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE2 20MHz CSE 16QAM Mid channel</p>	 <p>Agilent 19:31:53 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE2 20MHz CSE QPSK Mid channel</p>
<p>Band LTE2 15MHz 16QAM</p>	 <p>Agilent 19:29:15 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE2 15MHz CSE 16QAM Mid channel</p>	 <p>Agilent 19:28:48 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE2 15MHz CSE QPSK Mid channel</p>

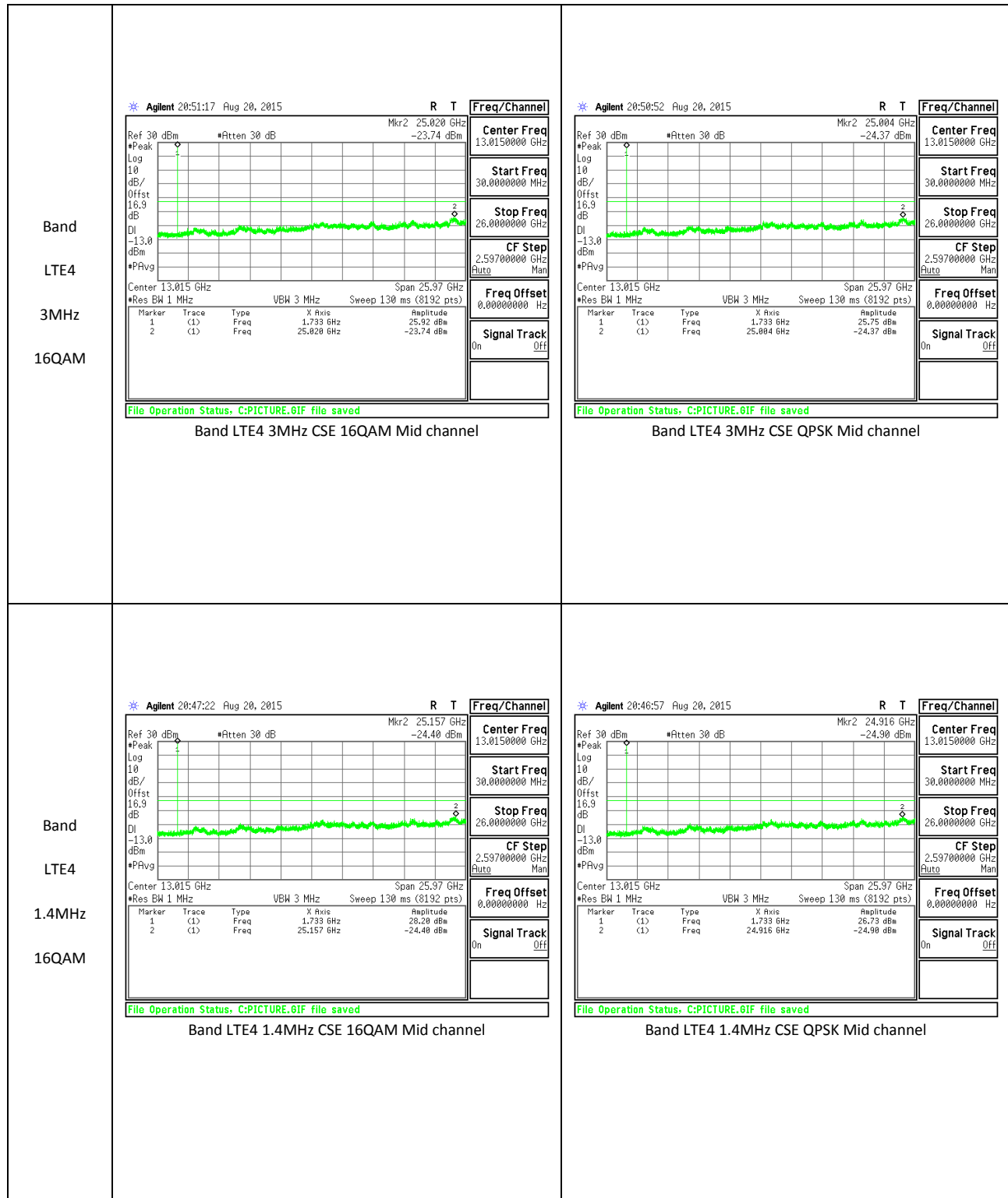




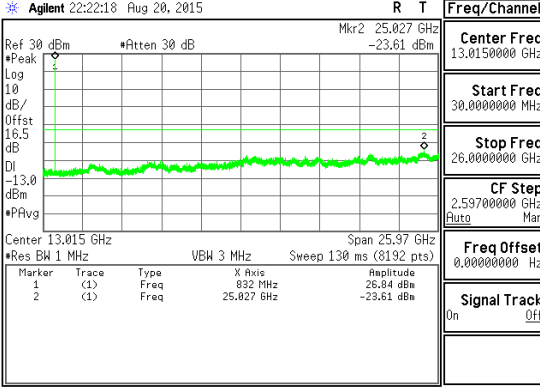
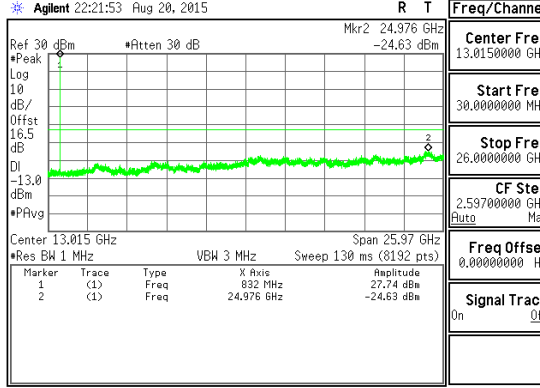
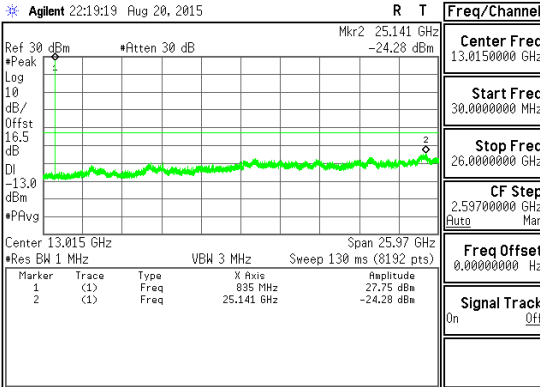
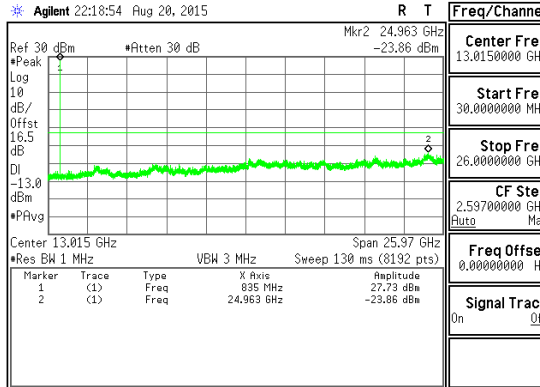
LTE Band 4

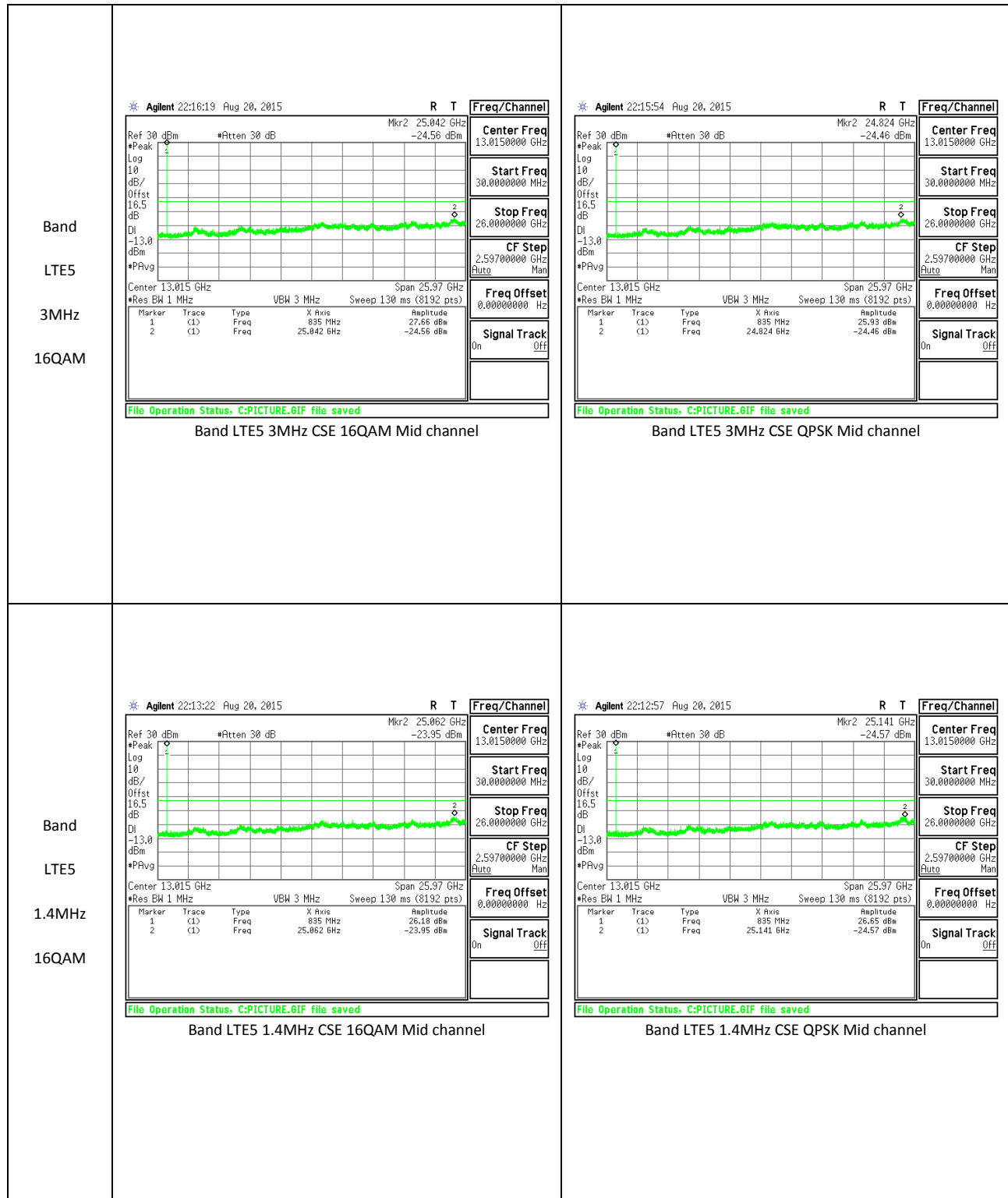
<p>Band LTE4 20MHz 16QAM</p>	 <p>Agilent 21:08:26 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE4 20MHz CSE 16QAM Mid channel</p>	 <p>Agilent 21:08:01 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE4 20MHz CSE QPSK Mid channel</p>
<p>Band LTE4 15MHz 16QAM</p>	 <p>Agilent 21:03:38 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE4 15MHz CSE 16QAM Mid channel</p>	 <p>Agilent 21:03:13 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE4 15MHz CSE QPSK Mid channel</p>





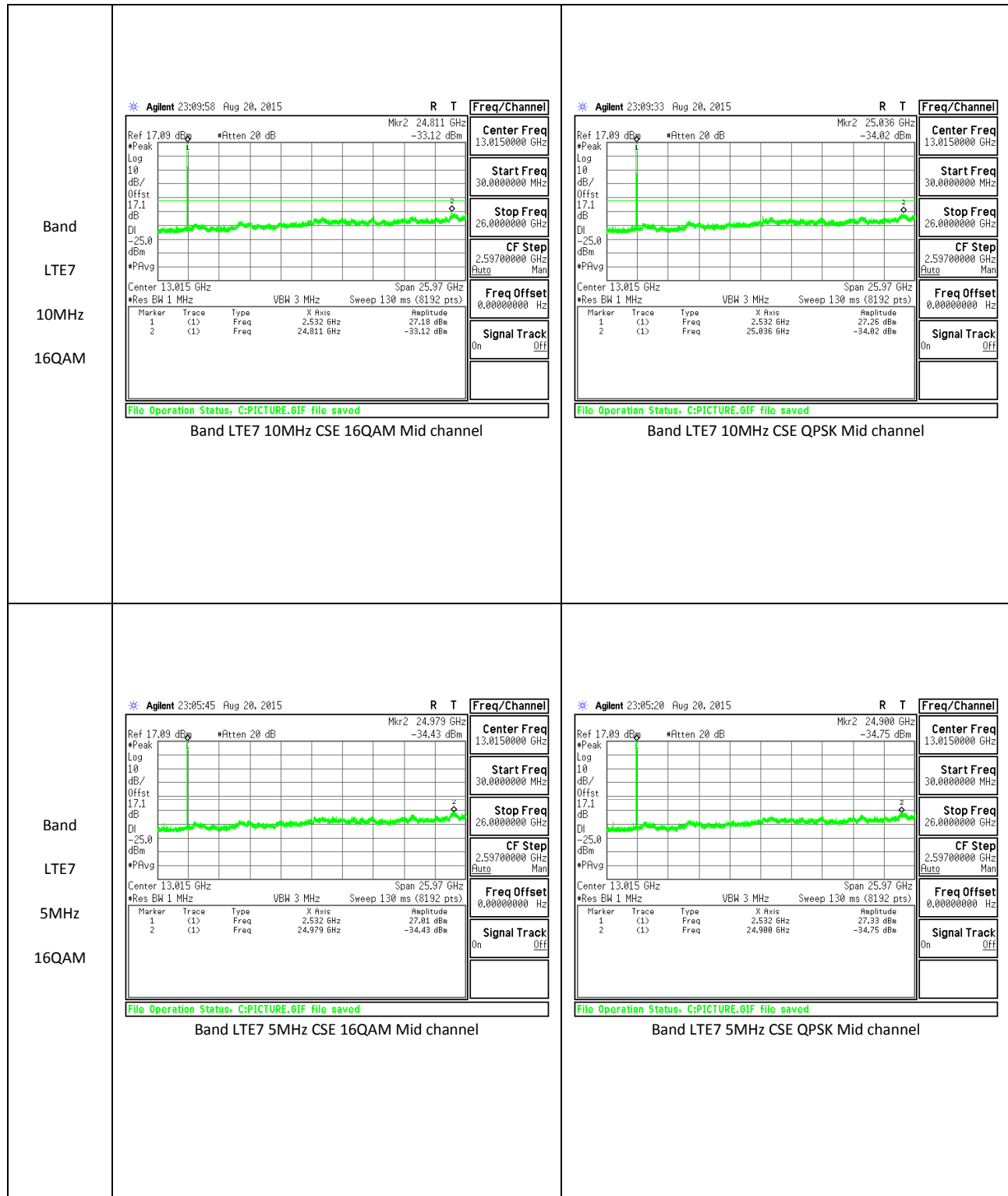
LTE Band 5

<p>Band LTE5 10MHz 16QAM</p>	 <p>Agilent 22:22:18 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE5 10MHz CSE 16QAM Mid channel</p>	 <p>Agilent 22:21:53 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE5 10MHz CSE QPSK Mid channel</p>
<p>Band LTE5 5MHz 16QAM</p>	 <p>Agilent 22:19:19 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE5 5MHz CSE 16QAM Mid channel</p>	 <p>Agilent 22:18:54 Aug 20, 2015</p> <p>Center Freq 13.0150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 26.0000000 GHz</p> <p>CF Step 2.59700000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE5 5MHz CSE QPSK Mid channel</p>



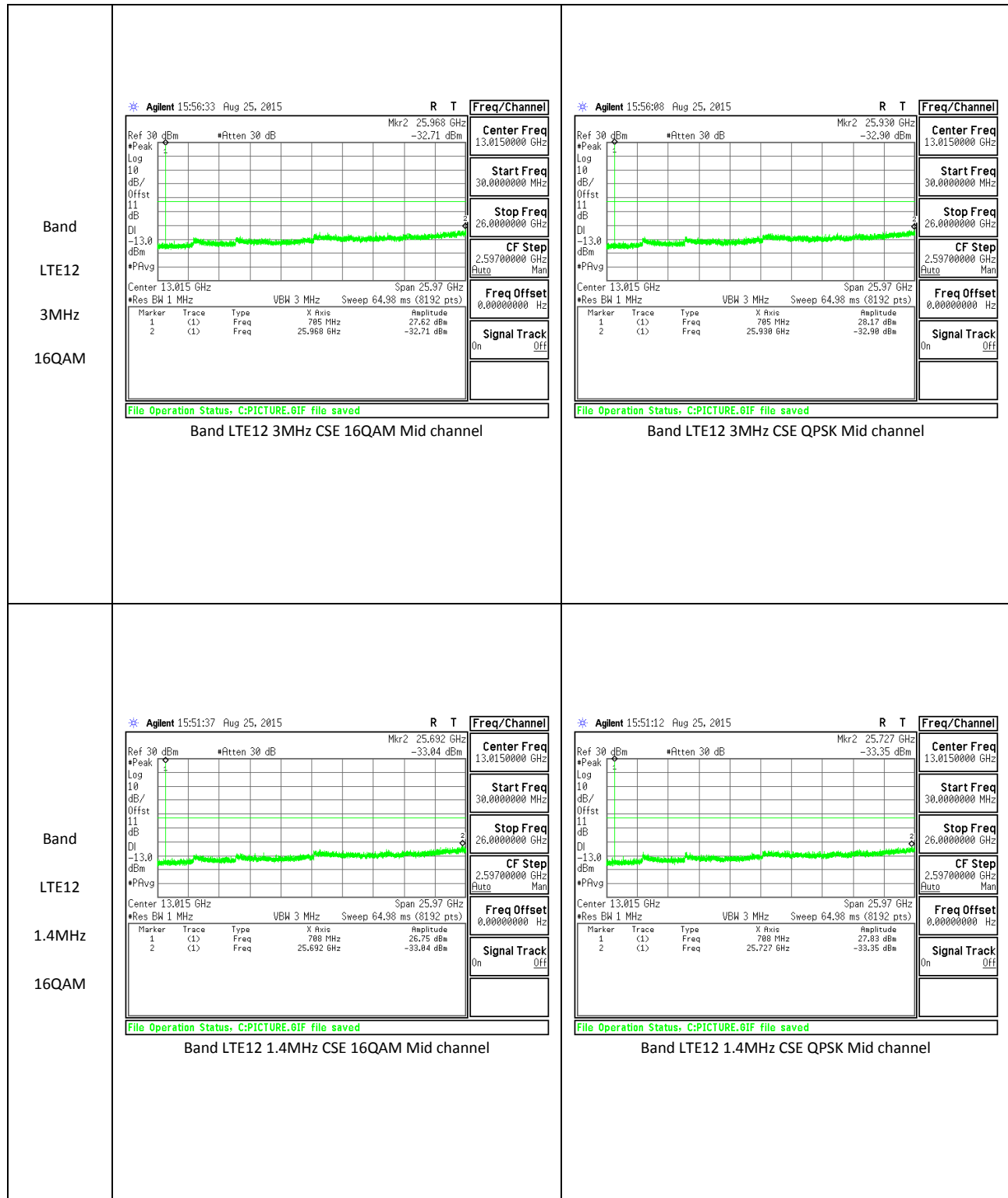
LTE Band 7

<p>Band LTE7 20MHz 16QAM</p>	<p>Agilent 23:18:13 Aug 20, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz</p> <p>Marker 1: 24.913 GHz, -33.70 dBm Marker 2: 25.055 GHz, -34.26 dBm</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE7 20MHz CSE 16QAM Mid channel</p>	<p>Agilent 23:17:44 Aug 20, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz</p> <p>Marker 1: 25.055 GHz, -34.26 dBm Marker 2: 24.913 GHz, -33.70 dBm</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE7 20MHz CSE QPSK Mid channel</p>
<p>Band LTE7 15MHz 16QAM</p>	<p>Agilent 23:14:01 Aug 20, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz</p> <p>Marker 1: 24.992 GHz, -34.25 dBm Marker 2: 25.001 GHz, -32.89 dBm</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE7 15MHz CSE 16QAM Mid channel</p>	<p>Agilent 23:13:33 Aug 20, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz</p> <p>Marker 1: 25.001 GHz, -32.89 dBm Marker 2: 24.992 GHz, -34.25 dBm</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE7 15MHz CSE QPSK Mid channel</p>



LTE Band 12

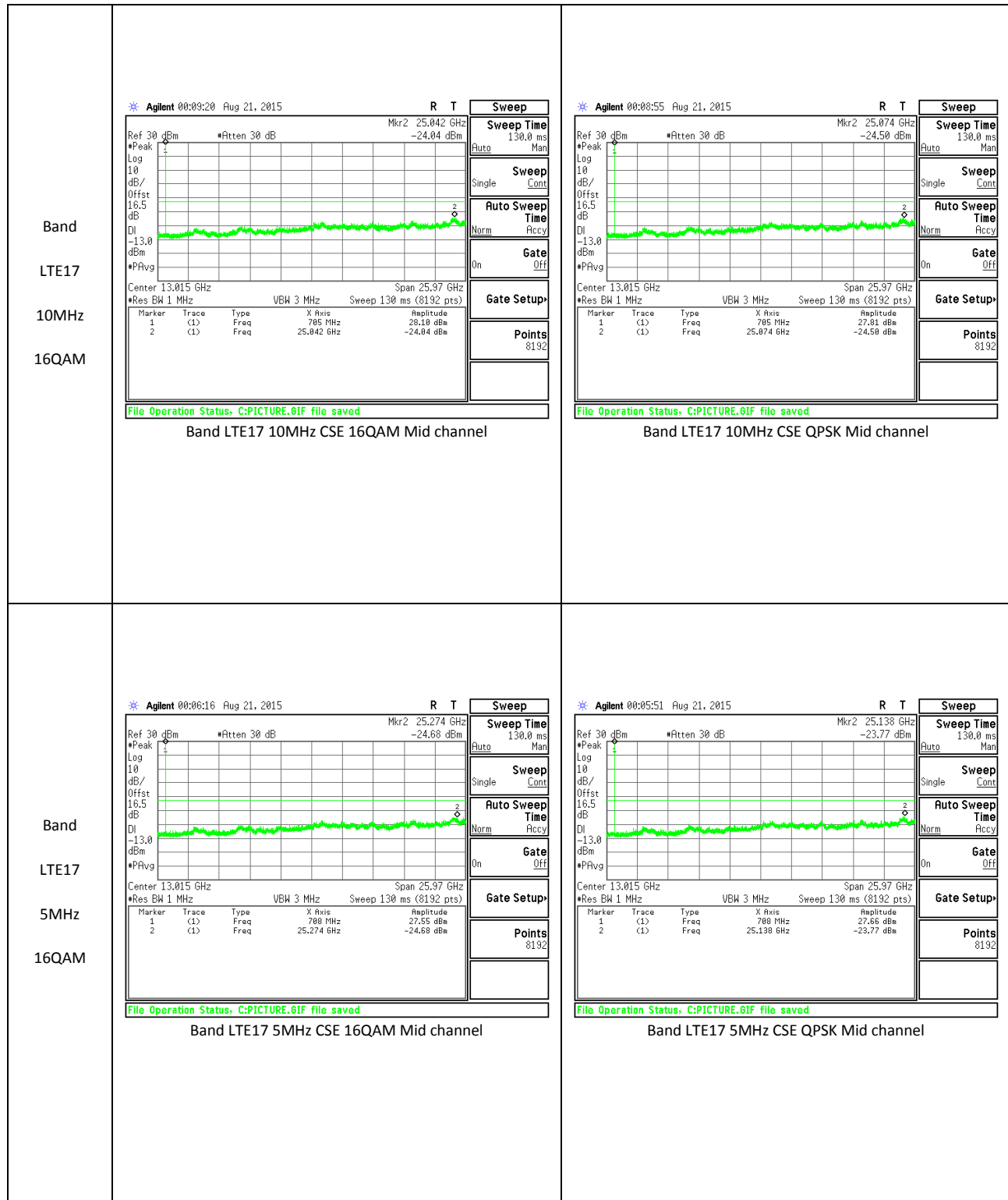
<p>Band LTE12 10MHz 16QAM</p>	<p>Agilent 16:05:59 Aug 25, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz</p> <p>Marker 1: 25.312 GHz, -33.07 dBm</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE12 10MHz CSE 16QAM Mid channel</p>	<p>Agilent 16:05:34 Aug 25, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz</p> <p>Marker 1: 25.458 GHz, -33.39 dBm</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE12 10MHz CSE QPSK Mid channel</p>
<p>Band LTE12 5MHz 16QAM</p>	<p>Agilent 16:01:12 Aug 25, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz</p> <p>Marker 1: 25.937 GHz, -32.96 dBm</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE12 5MHz CSE 16QAM Mid channel</p>	<p>Agilent 16:00:47 Aug 25, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz</p> <p>Marker 1: 25.718 GHz, -32.76 dBm</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE12 5MHz CSE QPSK Mid channel</p>



LTE Band 13

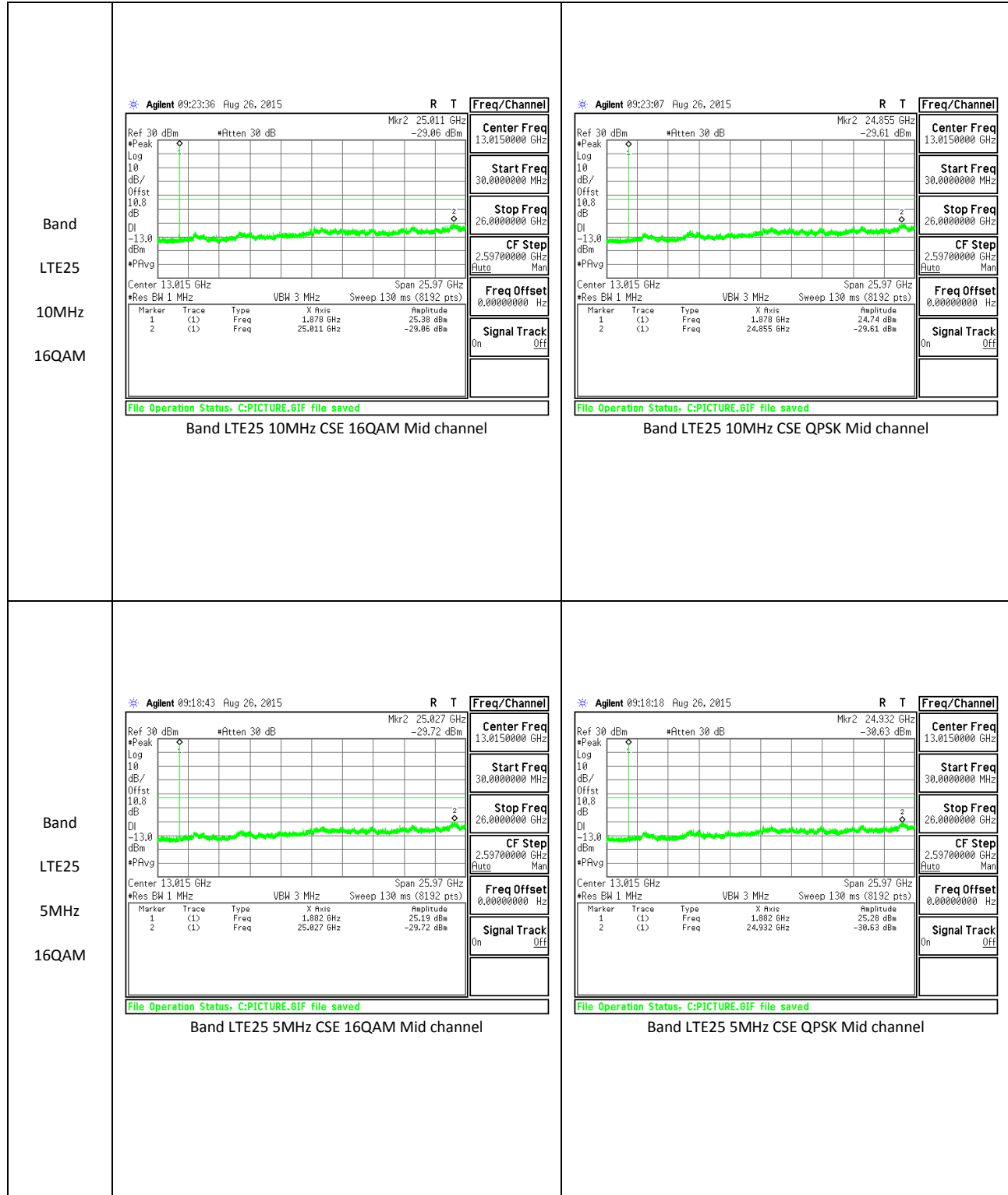
<p>Band LTE13 10MHz 16QAM</p>	<p>Agilent 00:46:19 Aug 21, 2015</p> <p>Center 13.015 GHz *Res BW 1 MHz VEW 3 MHz Span 25.97 GHz Sweep 130 ms (8192 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(C)</td> <td>Freq</td> <td>25.004 GHz</td> <td>-24.80 dBm</td> </tr> <tr> <td>2</td> <td>(C)</td> <td>Freq</td> <td>24.957 GHz</td> <td>-23.93 dBm</td> </tr> </tbody> </table> <p>Points 8192</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE13 10MHz CSE 16QAM High channel</p>	Marker	Trace	Type	X Axis	Amplitude	1	(C)	Freq	25.004 GHz	-24.80 dBm	2	(C)	Freq	24.957 GHz	-23.93 dBm	<p>Agilent 00:46:48 Aug 21, 2015</p> <p>Center 13.015 GHz *Res BW 1 MHz VEW 3 MHz Span 25.97 GHz Sweep 130 ms (8192 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(C)</td> <td>Freq</td> <td>24.957 GHz</td> <td>-23.93 dBm</td> </tr> <tr> <td>2</td> <td>(C)</td> <td>Freq</td> <td>24.970 GHz</td> <td>-23.83 dBm</td> </tr> </tbody> </table> <p>Points 8192</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE13 10MHz CSE QPSK High channel</p>	Marker	Trace	Type	X Axis	Amplitude	1	(C)	Freq	24.957 GHz	-23.93 dBm	2	(C)	Freq	24.970 GHz	-23.83 dBm
Marker	Trace	Type	X Axis	Amplitude																												
1	(C)	Freq	25.004 GHz	-24.80 dBm																												
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<p>Band LTE13 5MHz 16QAM</p>	<p>Agilent 00:44:01 Aug 21, 2015</p> <p>Center 13.015 GHz *Res BW 1 MHz VEW 3 MHz Span 25.97 GHz Sweep 130 ms (8192 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(C)</td> <td>Freq</td> <td>24.808 GHz</td> <td>-24.57 dBm</td> </tr> <tr> <td>2</td> <td>(C)</td> <td>Freq</td> <td>24.970 GHz</td> <td>-23.83 dBm</td> </tr> </tbody> </table> <p>Points 8192</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE13 5MHz CSE 16QAM Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	1	(C)	Freq	24.808 GHz	-24.57 dBm	2	(C)	Freq	24.970 GHz	-23.83 dBm	<p>Agilent 00:43:37 Aug 21, 2015</p> <p>Center 13.015 GHz *Res BW 1 MHz VEW 3 MHz Span 25.97 GHz Sweep 130 ms (8192 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(C)</td> <td>Freq</td> <td>24.970 GHz</td> <td>-23.83 dBm</td> </tr> <tr> <td>2</td> <td>(C)</td> <td>Freq</td> <td>24.970 GHz</td> <td>-23.83 dBm</td> </tr> </tbody> </table> <p>Points 8192</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE13 5MHz CSE QPSK Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	1	(C)	Freq	24.970 GHz	-23.83 dBm	2	(C)	Freq	24.970 GHz	-23.83 dBm
Marker	Trace	Type	X Axis	Amplitude																												
1	(C)	Freq	24.808 GHz	-24.57 dBm																												
2	(C)	Freq	24.970 GHz	-23.83 dBm																												
Marker	Trace	Type	X Axis	Amplitude																												
1	(C)	Freq	24.970 GHz	-23.83 dBm																												
2	(C)	Freq	24.970 GHz	-23.83 dBm																												

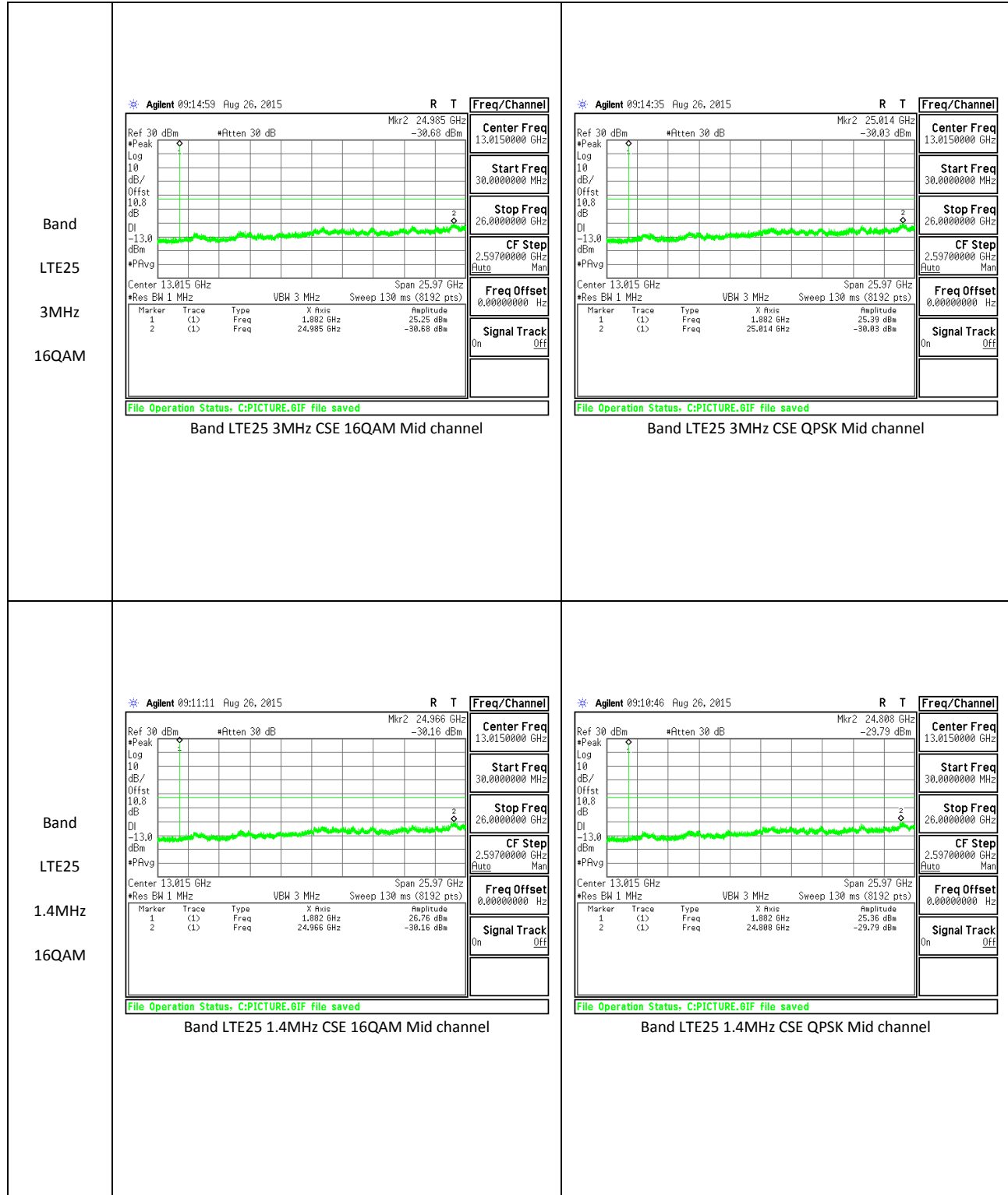
LTE Band 17



LTE Band 25

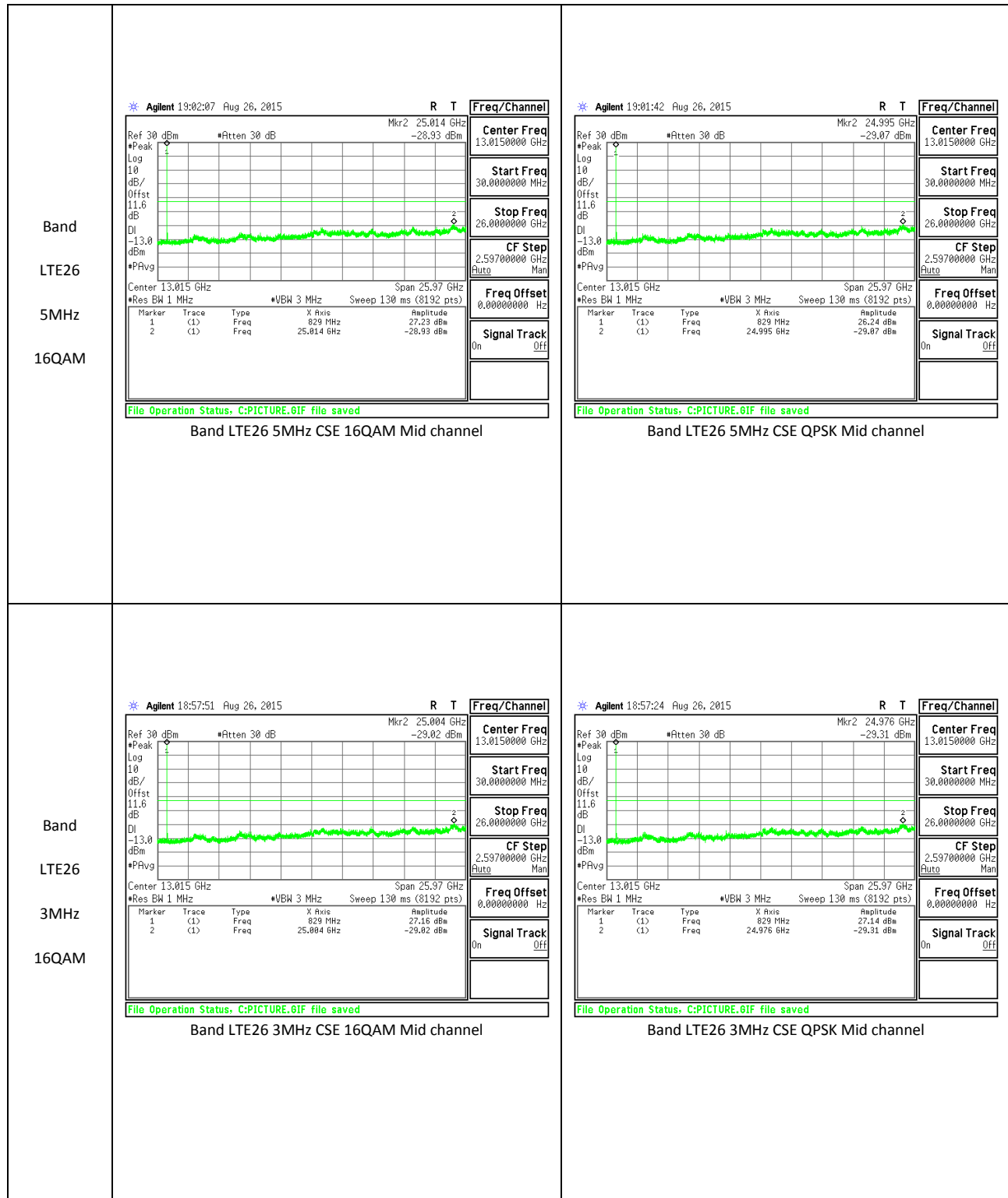
<p>Band LTE25 20MHz 16QAM</p>	<p>Agilent 09:31:47 Aug 26, 2015</p> <p>Center Freq 13.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 26.0000000 GHz CF Step 2.59700000 GHz Freq Offset 0.00000000 Hz</p> <p>Center 13.015 GHz #Res BW 1 MHz VBW 3 MHz Span 25.97 GHz Sweep 130 ms (8192 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(1)</td> <td>Freq</td> <td>1.875 GHz</td> <td>26.52 dBm</td> </tr> <tr> <td>2</td> <td>(1)</td> <td>Freq</td> <td>25.008 GHz</td> <td>-30.71 dBm</td> </tr> </tbody> </table> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE25 20MHz CSE 16QAM Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	1	(1)	Freq	1.875 GHz	26.52 dBm	2	(1)	Freq	25.008 GHz	-30.71 dBm	<p>Agilent 09:31:18 Aug 26, 2015</p> <p>Center Freq 13.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 26.0000000 GHz CF Step 2.59700000 GHz Freq Offset 0.00000000 Hz</p> <p>Center 13.015 GHz #Res BW 1 MHz VBW 3 MHz Span 25.97 GHz Sweep 130 ms (8192 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(1)</td> <td>Freq</td> <td>1.875 GHz</td> <td>24.28 dBm</td> </tr> <tr> <td>2</td> <td>(1)</td> <td>Freq</td> <td>24.992 GHz</td> <td>-30.48 dBm</td> </tr> </tbody> </table> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE25 20MHz CSE QPSK Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	1	(1)	Freq	1.875 GHz	24.28 dBm	2	(1)	Freq	24.992 GHz	-30.48 dBm
Marker	Trace	Type	X Axis	Amplitude																												
1	(1)	Freq	1.875 GHz	26.52 dBm																												
2	(1)	Freq	25.008 GHz	-30.71 dBm																												
Marker	Trace	Type	X Axis	Amplitude																												
1	(1)	Freq	1.875 GHz	24.28 dBm																												
2	(1)	Freq	24.992 GHz	-30.48 dBm																												
<p>Band LTE25 15MHz 16QAM</p>	<p>Agilent 09:28:02 Aug 26, 2015</p> <p>Center Freq 13.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 26.0000000 GHz CF Step 2.59700000 GHz Freq Offset 0.00000000 Hz</p> <p>Center 13.015 GHz #Res BW 1 MHz VBW 3 MHz Span 25.97 GHz Sweep 130 ms (8192 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(1)</td> <td>Freq</td> <td>1.875 GHz</td> <td>24.43 dBm</td> </tr> <tr> <td>2</td> <td>(1)</td> <td>Freq</td> <td>24.944 GHz</td> <td>-30.39 dBm</td> </tr> </tbody> </table> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE25 15MHz CSE 16QAM Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	1	(1)	Freq	1.875 GHz	24.43 dBm	2	(1)	Freq	24.944 GHz	-30.39 dBm	<p>Agilent 09:27:35 Aug 26, 2015</p> <p>Center Freq 13.0150000 GHz Start Freq 30.0000000 MHz Stop Freq 26.0000000 GHz CF Step 2.59700000 GHz Freq Offset 0.00000000 Hz</p> <p>Center 13.015 GHz #Res BW 1 MHz VBW 3 MHz Span 25.97 GHz Sweep 130 ms (8192 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(1)</td> <td>Freq</td> <td>1.875 GHz</td> <td>25.38 dBm</td> </tr> <tr> <td>2</td> <td>(1)</td> <td>Freq</td> <td>24.995 GHz</td> <td>-30.85 dBm</td> </tr> </tbody> </table> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE25 15MHz CSE QPSK Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	1	(1)	Freq	1.875 GHz	25.38 dBm	2	(1)	Freq	24.995 GHz	-30.85 dBm
Marker	Trace	Type	X Axis	Amplitude																												
1	(1)	Freq	1.875 GHz	24.43 dBm																												
2	(1)	Freq	24.944 GHz	-30.39 dBm																												
Marker	Trace	Type	X Axis	Amplitude																												
1	(1)	Freq	1.875 GHz	25.38 dBm																												
2	(1)	Freq	24.995 GHz	-30.85 dBm																												

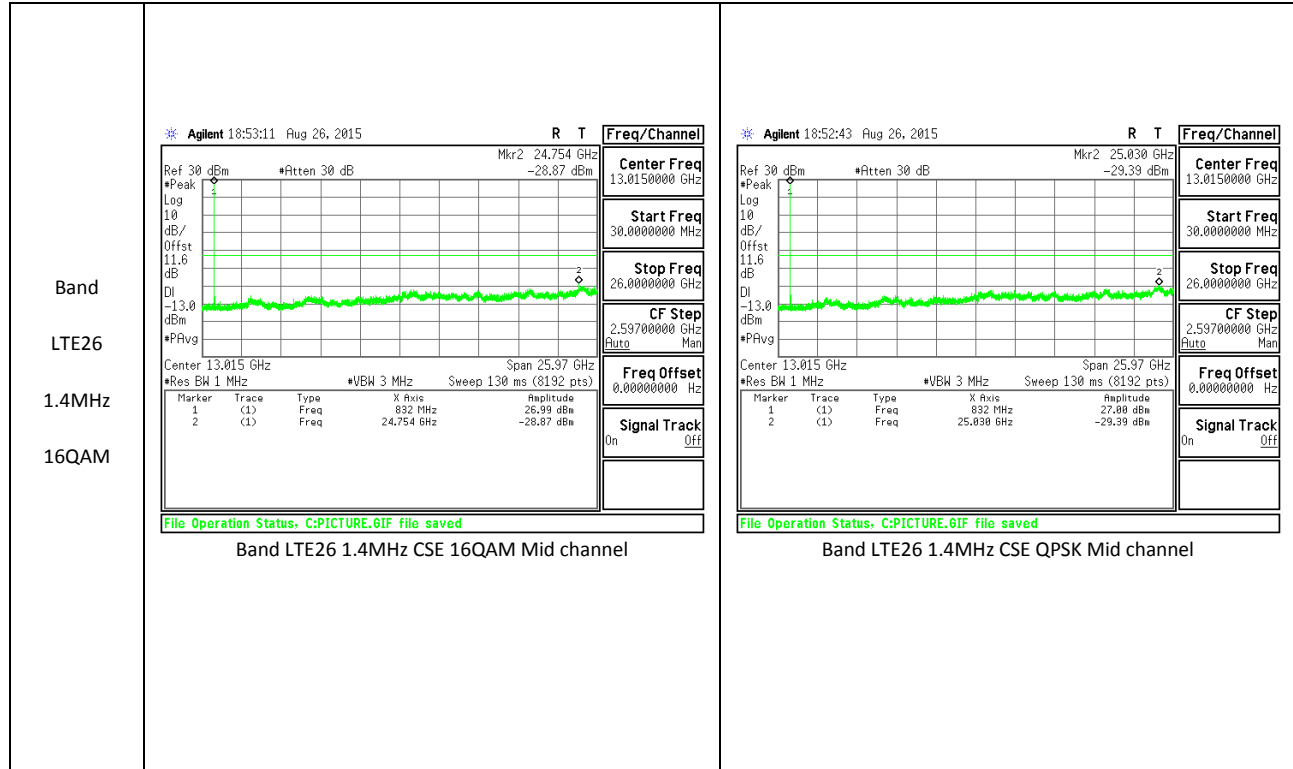




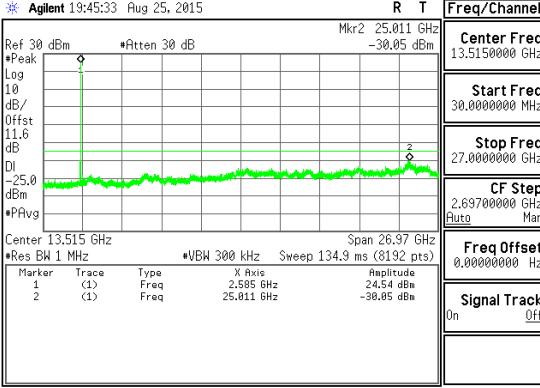
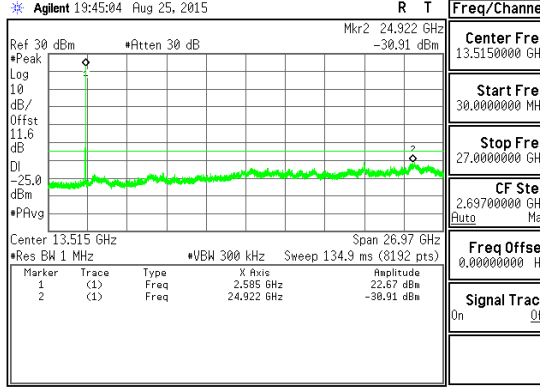
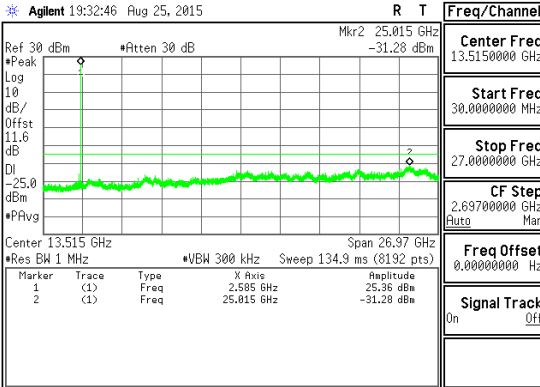
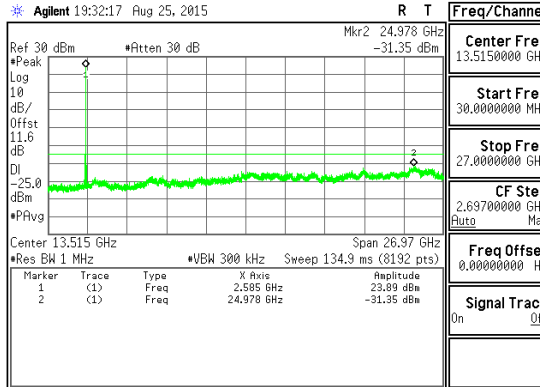
LTE Band 26

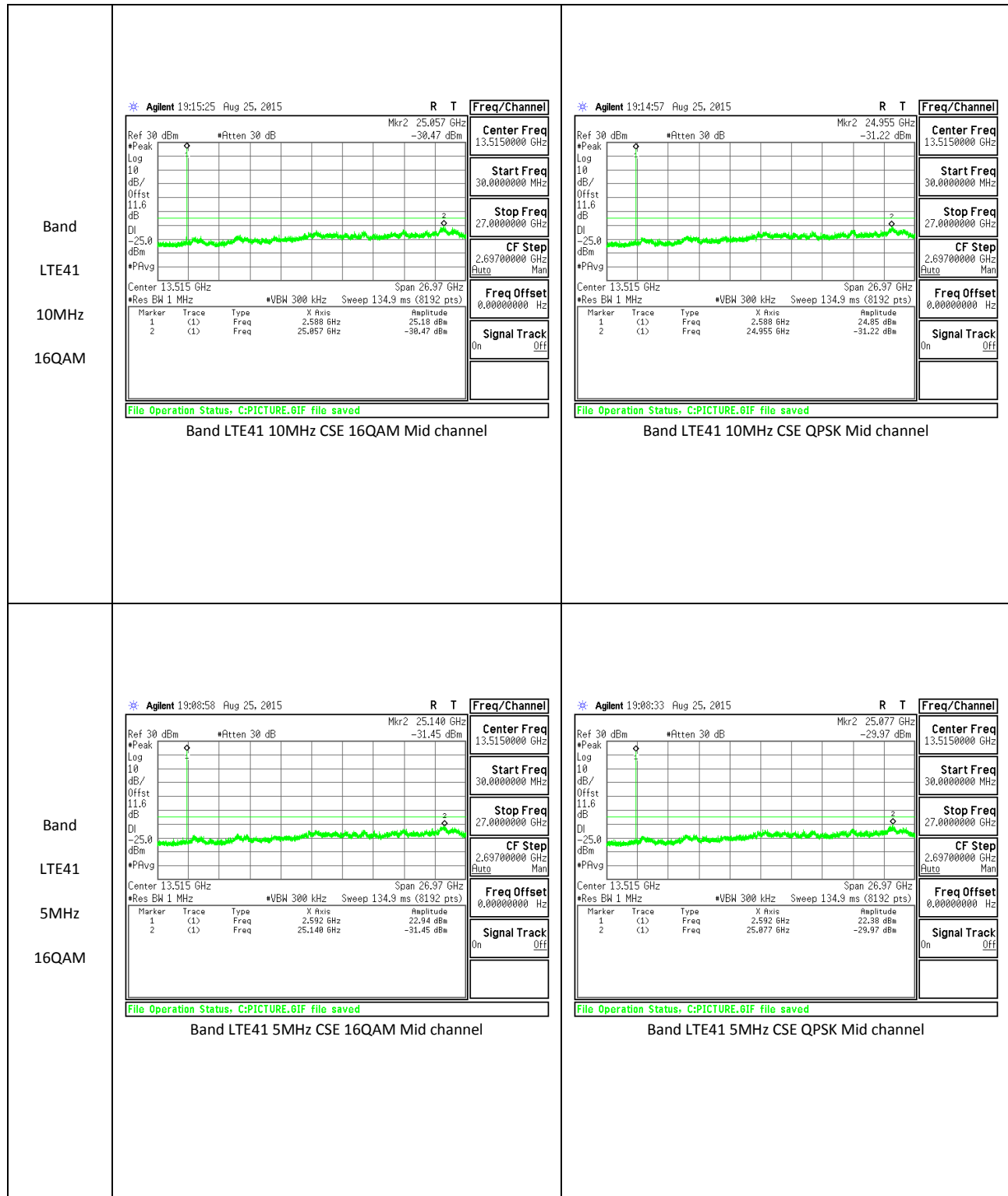
<p>Band LTE26 15MHz 16QAM</p>	<p>Agilent 20:13:55 Aug 26, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE26 15MHz CSE 16QAM Mid channel</p>	<p>Agilent 20:13:31 Aug 26, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE26 15MHz CSE QPSK Mid channel</p>
<p>Band LTE26 10MHz 16QAM</p>	<p>Agilent 19:07:02 Aug 26, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE26 10MHz CSE 16QAM Mid channel</p>	<p>Agilent 19:06:33 Aug 26, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE26 10MHz CSE QPSK Mid channel</p>





LTE Band 41

<p>Band LTE41 20MHz 16QAM</p>	 <p>Agilent 19:45:33 Aug 25, 2015</p> <p>Center Freq 13.5150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 27.0000000 GHz</p> <p>CF Step 2.697000000 GHz</p> <p>Freq Offset 0.000000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE41 20MHz CSE 16QAM Mid channel</p>	 <p>Agilent 19:45:04 Aug 25, 2015</p> <p>Center Freq 13.5150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 27.0000000 GHz</p> <p>CF Step 2.697000000 GHz</p> <p>Freq Offset 0.000000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE41 20MHz CSE QPSK Mid channel</p>
<p>Band LTE41 15MHz 16QAM</p>	 <p>Agilent 19:32:46 Aug 25, 2015</p> <p>Center Freq 13.5150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 27.0000000 GHz</p> <p>CF Step 2.697000000 GHz</p> <p>Freq Offset 0.000000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE41 15MHz CSE 16QAM Mid channel</p>	 <p>Agilent 19:32:17 Aug 25, 2015</p> <p>Center Freq 13.5150000 GHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 27.0000000 GHz</p> <p>CF Step 2.697000000 GHz</p> <p>Freq Offset 0.000000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE41 15MHz CSE QPSK Mid channel</p>



11. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54 and §90.213

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.

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

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

MODES TESTED

GSM and LTE

RESULTS

See the following pages.

11.1.1. FREQUENCY STABILITY RESULTS

GSM 850

Reference Frequency: PCS Mid Channel 836.6 MHz @ 20°C Limit: to stay +/- 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	836.600023	0.001	2.5
3.80	40	836.600025	-0.001	2.5
3.80	30	836.600025	-0.001	2.5
3.80	20	836.600024	0	2.5
3.80	10	836.600022	0.002	2.5
3.80	0	836.600021	0.004	2.5
3.80	-10	836.600022	0.003	2.5
3.80	-20	836.600021	0.004	2.5
3.80	-30	836.600020	0.005	2.5

Reference Frequency: PCS Mid Channel 836.6 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 2091.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	836.600024	0	2.5
4.37	20	836.6000219	0.003	2.5
3.23(End of Volt)	20	836.6000236	0.001	2.5

GSM 1900

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	50	1880.000039	0.000	2.5
3.80	40	1880.000038	0.000	2.5
3.80	30	1880.000036	0.001	2.5
3.80	20	1880.000038	0	2.5
3.80	10	1880.000035	0.002	2.5
3.80	0	1880.000024	0.007	2.5
3.80	-10	1880.000023	0.008	2.5
3.80	-20	1880.000021	0.009	2.5
3.80	-30	1880.000022	0.008	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	1880.000038	0	2.5
4.37	20	1880.000041	-0.002	2.5
3.23(End of Volt)	20	1880.000032	0.003	2.5

LTE Band 4

Reference Frequency: PCS Mid Channel		1732.5	MHz @ 20°C	
Limit: to stay +- 2.5 ppm =		4331.250	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1732.499993	0.001	2.5
3.80	40	1732.499994	0.000	2.5
3.80	30	1732.499994	0.000	2.5
3.80	20	1732.499994	0	2.5
3.80	10	1732.499995	0.000	2.5
3.80	0	1732.499996	-0.001	2.5
3.80	-10	1732.500007	-0.007	2.5
3.80	-20	1732.500005	-0.006	2.5
3.80	-30	1732.500005	-0.006	2.5

Reference Frequency: PCS Mid Channel		1732.5	MHz @ 20°C	
Limit: to stay +- 2.5 ppm =		4331.250	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1732.499994	0	2.5
4.37	20	1732.499993	0.000	2.5
3.23(End of volt)	20	1732.499995	-0.001	2.5

LTE Band 7

Reference Frequency: Cellular Mid Channel 2535.000019 MHz @ 20°C				
Limit: to stay +- 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	2534.999993	0.000	2.5
3.80	40	2534.999992	0.000	2.5
3.80	30	2534.999994	-0.001	2.5
3.80	20	2534.999992	0	2.5
3.80	10	2534.999993	0.000	2.5
3.80	0	2534.999994	-0.001	2.5
3.80	-10	2534.999994	0.000	2.5
3.80	-20	2534.999993	0.000	2.5
3.80	-30	2534.999993	0.000	2.5

Reference Frequency: Cellular Mid Channel 2535.000019 MHz @ 20°C				
Limit: to stay +- 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	20	2534.999992	0	2.5
4.37	20	2534.999992	0.000	2.5
3.23(End of Volt)	20	2534.999993	0.000	2.5

LTE Band 12

Reference Frequency: Cellular Mid Channel 707.5 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 1768.750 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	707.500004	0.000	2.5
3.80	40	707.500005	-0.001	2.5
3.80	30	707.500003	0.001	2.5
3.80	20	707.500004	0	2.5
3.80	10	707.500003	0.001	2.5
3.80	0	707.500005	-0.001	2.5
3.80	-10	707.499997	0.010	2.5
3.80	-20	707.499997	0.010	2.5
3.80	-30	707.500004	0.000	2.5
Reference Frequency: Cellular Mid Channel 707.5 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 1768.750 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	707.500004	0	2.5
4.37	20	707.500004	0.000	2.5
3.23(End of Volt)	20	707.500005	-0.001	2.5

LTE Band 13

Reference Frequency: PCS Mid Channel				
Limit: to stay +/- 2.5 ppm =			782	MHz @ 20°C
			1955.000	Hz
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	782.000003	0.002	2.5
3.80	40	782.000004	0.001	2.5
3.80	30	782.000003	0.001	2.5
3.80	20	782.000004	0	2.5
3.80	10	781.999998	0.009	2.5
3.80	0	781.999998	0.009	2.5
3.80	-10	782.000003	0.002	2.5
3.80	-20	781.999997	0.009	2.5
3.80	-30	782.000003	0.001	2.5
			782.000000	0.006
Reference Frequency: PCS Mid Channel				
Limit: to stay +/- 2.5 ppm =			782	MHz @ 20°C
			1955.000	Hz
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	782.000004	0	2.5
4.37	20	782.0000032	0.002	2.5
3.23(End of volt)	20	782.0000027	0.002	2.5

12. RADIATED TEST RESULTS

12.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27 and § 90.635.

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)

90.635(b) - The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). (LTE B26)

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 v02r02

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 \geq 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.

MODES TESTED

GSM, WCDMA, CDMA, and LTE

TEST RESULTS

12.1.1. ERP/EIRP Results

GSM

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM1900	GPRS	512	1850.2	30.69	1172.02
		661	1880	30.37	1088.63
		810	1909.8	30.58	1143.75
	EGPRS	512	1850.2	25.99	397.13
		661	1880	25.87	386.26
		810	1909.8	25.98	396.58

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM850	GPRS	128	824.2	29.2	831.76
		190	836.6	30.5	1122.02
		251	848.8	29.8	954.99
	EGPRS	128	824.2	25.2	331.13
		190	836.6	26.4	436.52
		251	848.8	25.8	380.19

WCDMA

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 5	REL99	4132	826.4	21.90	154.88
		4183	836.6	22.00	158.49
		4233	846.6	21.20	131.83
	HSDPA	4132	826.4	20.90	123.03
		4183	836.6	21.00	125.89
		4233	846.6	20.30	107.15

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 4	REL99	1312	1712.4	25.7	371.54
		1413	1732.6	24.6	288.4
		1513	1752.6	26.2	416.87
	HSDPA	1312	1712.4	24.2	263.03
		1413	1732.6	23.1	204.17
		1513	1752.6	24.7	295.12

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 2	REL99	9262	1852.4	23.19	208.35
		9400	1880	23.57	227.45
		9538	1907.6	22.68	185.22
	HSDPA	9262	1852.4	21.29	134.52
		9400	1880	20.57	113.99
		9538	1907.6	21.18	131.13

CDMA

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC1	1xRTT	25	1851.25	26.46	442.59
		600	1880	25.79	379.31
		1175	1908.75	25.73	374.11
	EVDO REL. 0	25	1851.25	26.38	434.51
		600	1880	25.61	363.92
		1175	1908.75	25.65	367.28

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC0	1xRTT	1013	824.7	22.13	163.15
		384	836.52	22.16	164.36
		777	848.31	22.58	181.3
	EVDO REL. 0	1013	824.7	21.88	154.17
		384	836.52	22.06	160.69
		777	848.31	22.18	165.20

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC10	1xRTT	476	817.9	21.68	147.06
		580	820.5	21.34	136.05
		684	823.1	21.65	146.18
	EVDO REL. 0	476	817.9	21.70	147.91
		580	820.5	21.34	136.14
		684	823.1	21.76	149.97

12.1.1. LTE ERP/EIRP Results

LTE Band 2

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	20	QPSK	1/0	1860	26.25	421.7
			1/0	1880	26.07	404.58
			1/0	1900	25.56	359.75
		16QAM	1/0	1860	25.15	327.34
			1/0	1880	25.37	344.35
			1/0	1900	24.41	276.06
LTE2	15	QPSK	1/0	1857.5	26.3	426.58
			1/0	1880	26.06	403.65
			1/0	1902.5	25.71	372.39
		16QAM	1/0	1857.5	25.18	329.61
			1/0	1880	25.09	322.85
			1/0	1902.5	24.72	296.48
LTE2	10	QPSK	1/0	1855	26.24	420.73
			1/0	1880	26.01	399.02
			1/0	1905	25.67	368.98
		16QAM	1/0	1855	25.26	335.74
			1/0	1880	25.26	335.74
			1/0	1905	24.69	294.44

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	5	QPSK	1/0	1852.5	26.23	419.76
			1/0	1880	25.95	393.55
			1/0	1907.5	25.61	363.92
		16QAM	1/0	1852.5	25.16	328.1
			1/0	1880	24.91	309.74
			1/0	1907.5	24.55	285.1
LTE2	3	QPSK	1/0	1851.5	26.21	417.83
			1/0	1880	25.99	397.19
			1/0	1908.5	25.48	353.18
		16QAM	1/0	1851.5	25.2	331.13
			1/0	1880	25.21	331.89
			1/0	1908.5	24.65	291.74
LTE2	1.4	QPSK	1/0	1850.7	26.29	425.6
			1/0	1880	26.01	399.02
			1/0	1909.3	25.63	365.59
		16QAM	1/0	1850.7	25.21	331.89
			1/0	1880	25.02	317.69
			1/0	1909.3	24.61	289.07

LTE Band 4

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	25.42	348.68
			1/0	1732.5	25.50	354.57
			1/0	1745	26.03	400.76
		16QAM	1/0	1720	24.51	282.76
			1/0	1732.5	24.91	309.53
			1/0	1745	25.22	332.57
LTE4	15	QPSK	1/0	1717.5	25.49	353.83
			1/0	1732.5	25.57	360.33
			1/0	1747.5	26.09	405.99
		16QAM	1/0	1717.5	24.45	278.48
			1/0	1732.5	24.77	299.71
			1/0	1747.5	25.11	323.98
LTE4	10	QPSK	1/0	1715	25.37	344.43
			1/0	1732.5	25.59	362
			1/0	1750	26.18	415.17
		16QAM	1/0	1715	24.35	272.34
			1/0	1732.5	24.98	314.56
			1/0	1750	25.20	331.3

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	5	QPSK	1/0	1712.5	25.45	351.1
			1/0	1732.5	25.60	362.83
			1/0	1752.5	26.24	420.62
		16QAM	1/0	1712.5	24.49	281.47
			1/0	1732.5	24.73	296.96
			1/0	1752.5	25.17	328.76
LTE4	3	QPSK	1/0	1711.5	25.38	344.98
			1/0	1732.5	25.62	364.51
			1/0	1753.5	26.23	419.29
		16QAM	1/0	1711.5	24.43	277.2
			1/0	1732.5	24.73	296.96
			1/0	1753.5	25.18	329.24
LTE4	1.4	QPSK	1/0	1710.7	25.34	342.06
			1/0	1732.5	25.61	363.67
			1/0	1754.3	26.22	419.01
		16QAM	1/0	1710.7	24.38	274.22
			1/0	1732.5	24.76	299.02
			1/0	1754.3	25.26	335.91

LTE Band 5

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	10	QPSK	1/0	829	21.74	149.28
			1/0	836.5	22.41	174.18
			1/0	844	21.61	144.88
		16QAM	1/0	829	21.00	125.89
			1/0	836.5	21.68	147.23
			1/0	844	21.03	126.77
LTE5	5	QPSK	1/0	826.5	22.75	188.36
			1/0	836.5	22.59	181.55
			1/0	846.5	21.36	136.77
		16QAM	1/0	826.5	21.82	152.05
			1/0	836.5	22.35	171.79
			1/0	846.5	20.53	112.98
LTE5	3	QPSK	1/0	825.5	22.77	189.23
			1/0	836.5	22.49	177.42
			1/0	847.5	21.26	133.66
		16QAM	1/0	825.5	21.97	157.4
			1/0	836.5	21.54	142.56
			1/0	847.5	20.36	108.64
LTE5	1.4	QPSK	1/0	824.7	22.86	193.20
			1/0	836.5	22.62	182.81
			1/0	848.3	21.25	133.35
		16QAM	1/0	824.7	21.91	155.24
			1/0	836.5	21.49	140.93
			1/0	848.3	20.42	110.15

LTE Band 7

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE7	20	QPSK	1/0	2510	20.88	122.43
			1/0	2535	22.25	167.82
			1/0	2560	21.37	137.03
		16QAM	1/0	2510	19.92	98.15
			1/0	2535	21.28	134.23
			1/0	2560	20.60	114.77
LTE7	15	QPSK	1/0	2507.5	19.94	98.62
			1/0	2535	21.08	128.19
			1/0	2562.5	21.64	145.8
		16QAM	1/0	2507.5	19.00	79.42
			1/0	2535	20.39	109.36
			1/0	2562.5	20.57	113.96
LTE7	10	QPSK	1/0	2505	19.92	98.16
			1/0	2535	21.06	127.6
			1/0	2565	21.45	139.56
		16QAM	1/0	2505	18.94	78.33
			1/0	2535	20.39	109.36
			1/0	2565	20.52	112.65
LTE7	5	QPSK	1/0	2502.5	19.86	96.8
			1/0	2535	21.03	126.72
			1/0	2567.5	21.60	144.49
		16QAM	1/0	2502.5	18.88	77.25
			1/0	2535	20.34	108.11
			1/0	2567.5	20.65	116.1

LTE Band 12

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE12	10	QPSK	1/0	704	18.44	69.86
			1/0	707.5	19.56	90.39
			1/0	711	18.56	71.73
		16QAM	1/0	704	17.65	58.24
			1/0	707.5	18.81	76.05
			1/0	711	17.77	59.8
LTE12	5	QPSK	1/0	701.5	18.29	67.42
			1/0	707.5	19.18	82.79
			1/0	713.5	18.19	65.89
		16QAM	1/0	701.5	17.72	59.1
			1/0	707.5	18.53	71.2
			1/0	713.5	17.47	55.86
LTE12	3	QPSK	1/0	700.5	18.28	67.33
			1/0	707.5	19.24	84.02
			1/0	714.5	18.13	65.03
		16QAM	1/0	700.5	17.50	56.27
			1/0	707.5	18.51	70.89
			1/0	714.5	17.41	55.08
LTE12	1.4	QPSK	1/0	699.7	18.28	67.36
			1/0	707.5	19.16	82.34
			1/0	715.3	18.16	65.51
		16QAM	1/0	699.7	17.63	57.9
			1/0	707.5	18.37	68.63
			1/0	715.3	17.40	54.92

LTE Band 13

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE13	10	QPSK	1/0	782	19.50	89.06
			1/0	782	19.50	89.06
			1/0	782	19.50	89.06
		16QAM	1/0	782	18.82	76.16
			1/0	782	18.82	76.16
			1/0	782	18.82	76.16
LTE13	5	QPSK	1/0	779.5	19.26	84.37
			1/0	782	19.40	87.04
			1/0	784.5	19.71	93.56
		16QAM	1/0	779.5	18.39	69.06
			1/0	782	18.63	72.9
			1/0	784.5	18.93	78.18

LTE Band 17

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE17	10	QPSK	1/0	709	18.44	69.86
			1/0	710	19.56	90.39
			1/0	711	18.56	71.73
		16QAM	1/0	709	17.65	58.24
			1/0	710	18.81	76.05
			1/0	711	17.77	59.8
LTE17	5	QPSK	1/0	706.5	18.29	67.42
			1/0	710	19.18	82.79
			1/0	713.5	18.19	65.89
		16QAM	1/0	706.5	17.72	59.1
			1/0	710	18.53	71.2
			1/0	713.5	17.47	55.86

LTE Band 25

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	20	QPSK	1/0	1860	26.25	421.7
			1/0	1882.5	26.07	404.58
			1/0	1905	25.56	359.75
		16QAM	1/0	1860	25.15	327.34
			1/0	1882.5	25.37	344.35
			1/0	1905	24.41	276.06
LTE25	15	QPSK	1/0	1857.5	26.3	426.58
			1/0	1882.5	26.06	403.65
			1/0	1907.5	25.71	372.39
		16QAM	1/0	1857.5	25.18	329.61
			1/0	1882.5	25.09	322.85
			1/0	1907.5	24.72	296.48
LTE25	10	QPSK	1/0	1855	26.24	420.73
			1/0	1882.5	26.01	399.02
			1/0	1910	25.67	368.98
		16QAM	1/0	1855	25.26	335.74
			1/0	1882.5	25.26	335.74
			1/0	1910	24.69	294.44

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	5	QPSK	1/0	1852.5	26.23	419.76
			1/0	1882.5	25.95	393.55
			1/0	1912.5	25.61	363.92
		16QAM	1/0	1852.5	25.16	328.1
			1/0	1882.5	24.91	309.74
			1/0	1912.5	24.55	285.1
LTE25	3	QPSK	1/0	1851.5	26.21	417.83
			1/0	1882.5	25.99	397.19
			1/0	1913.5	25.48	353.18
		16QAM	1/0	1851.5	25.2	331.13
			1/0	1882.5	25.21	331.89
			1/0	1913.5	24.65	291.74
LTE25	1.4	QPSK	1/0	1850.7	26.29	425.6
			1/0	1882.5	26.01	399.02
			1/0	1914.3	25.63	365.59
		16QAM	1/0	1850.7	25.21	331.89
			1/0	1882.5	25.02	317.69
			1/0	1914.3	24.61	289.07

LTE Band 26

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	15	QPSK	1/0	831.5	22.64	183.65
			1/0	836.5	22.54	179.47
			1/0	841.5	21.82	152.05
		16QAM	1/0	831.5	21.96	157.04
			1/0	836.5	21.61	144.88
			1/0	841.5	21.04	127.06
LTE26	10	QPSK	1/0	819	21.74	149.28
			1/0	831.5	22.41	174.18
			1/0	844	21.61	144.88
		16QAM	1/0	819	21.00	125.89
			1/0	831.5	21.68	147.23
			1/0	844	21.03	126.77
LTE26	5	QPSK	1/0	816.5	22.75	188.36
			1/0	831.5	22.59	181.55
			1/0	846.5	21.36	136.77
		16QAM	1/0	816.5	21.82	152.05
			1/0	831.5	22.35	171.79
			1/0	846.5	20.53	112.98
LTE26	3	QPSK	1/0	815.5	22.77	189.23
			1/0	831.5	22.49	177.42
			1/0	847.5	21.26	133.66
		16QAM	1/0	815.5	21.97	157.4
			1/0	831.5	21.54	142.56
			1/0	847.5	20.36	108.64
LTE26	1.4	QPSK	1/0	814.7	22.86	193.2
			1/0	831.5	22.62	182.81
			1/0	848.3	21.25	133.35
		16QAM	1/0	814.7	21.91	155.24
			1/0	831.5	21.49	140.93
			1/0	848.3	20.42	110.15

LTE Band 41

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	20	QPSK	1/0	2506	19.14	82.03
			1/0	2593	19.87	96.96
			1/0	2680	18.73	74.57
		16QAM	1/0	2506	18.09	64.41
			1/0	2593	18.87	77.02
			1/0	2680	17.77	59.78
LTE41	15	QPSK	1/0	2503.5	19.10	81.27
			1/0	2593	19.51	89.25
			1/0	2682.5	18.70	74.17
		16QAM	1/0	2503.5	18.12	64.85
			1/0	2593	18.74	74.75
			1/0	2682.5	17.80	60.29
LTE41	10	QPSK	1/0	2501	18.78	75.48
			1/0	2593	19.47	88.43
			1/0	2685	18.63	72.93
		16QAM	1/0	2501	18.04	63.65
			1/0	2593	18.68	73.72
			1/0	2685	17.81	60.38
LTE41	5	QPSK	1/0	2498.5	18.35	68.45
			1/0	2593	19.44	87.82
			1/0	2687.5	18.66	73.38
		16QAM	1/0	2498.5	18.07	64.18
			1/0	2593	18.70	74.06
			1/0	2687.5	17.79	60.06

12.1.2. ERP/EIRP PLOTS

GSM

Band GSM 1900 EGPRS	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
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WCDMA

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Band Band 2 REL99	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21523 Date: 8/22/2015 Test Engineer: Jude Semana Configuration: X-pos EUT only Location: Chamber A Mode: Rel99 Band 2 Fundamentals								
	Test Equipment: Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T60 Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1852.40	11.90	V	0.9	7.9	18.89	33.0	-14.1	
	1852.40	16.20	H	0.9	7.9	23.19	33.0	-9.8	
	Mid Ch								
	1880.00	12.30	V	0.9	7.9	19.27	33.0	-13.7	
	1880.00	16.60	H	0.9	7.9	23.57	33.0	-9.4	
High Ch									
1907.60	11.50	V	0.9	7.9	18.48	33.0	-14.5		
1907.60	15.70	H	0.9	7.9	22.68	33.0	-10.3		

Band Band 4 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21523																																																																																															
	Date:		8/22/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		X-pos, EUT only																																																																																															
	Location:		Chamber A																																																																																															
	Mode:		HSDPA Band 4 Fundamentals																																																																																															
	Test Equipment:		Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T60 ,4ft SMA Cable Warehouse																																																																																															
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Band Band 4 REL99	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21523 Date: 8/22/2015 Test Engineer: Jude Semana Configuration: X-pos EUT only Location: Chamber A Mode: Rel99 Band 4 Fundamentals								
	Test Equipment: Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T60 ,4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1712.40	13.30	V	0.9	8.2	20.60	30.0	-9.4	
	1712.40	18.40	H	0.9	8.2	25.70	30.0	-4.3	
	Mid Ch								
	1732.60	12.00	V	0.9	8.2	19.30	30.0	-10.7	
	1732.60	17.30	H	0.9	8.2	24.60	30.0	-5.4	
High Ch									
1752.60	12.70	V	0.9	8.1	19.90	30.0	-10.1		
1752.60	19.00	H	0.9	8.1	26.20	30.0	-3.8		

Band Band 5 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21523 Date: 8/22/2015 Test Engineer: Jude Semana Configuration: EUT Only (X position) Location: Chamber A Mode: HSDPA Band 5 Fundamentals								
	Test Equipment: Receiving: Hybrid T477, and Chamber A SMA Cables Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	826.40	7.50	V	0.9	0.0	6.60	38.5	-31.9	
	826.40	21.80	H	0.9	0.0	20.90	38.5	-17.6	
	Mid Ch								
	836.60	7.30	V	0.9	0.0	6.40	38.5	-32.1	
	836.60	21.90	H	0.9	0.0	21.00	38.5	-17.5	
High Ch									
846.60	6.50	V	0.9	0.0	5.60	38.5	-32.9		
846.60	21.20	H	0.9	0.0	20.30	38.5	-18.2		

Band Band 5 REL99	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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	Test Engineer:		Jude Semana																																																																																															
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CDMA

Band BC1	High Frequency Fundamental Measurement UL Verification Services, Inc.								
	Company: LG Electronics Project #: 15I21523 Date: 8/26/2015 Test Engineer: R.Alegre Configuration: EUT Only Mode: CDMA EVDO BC1								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1.8513	14.6	V	0.90	8.01	21.69	33.0	-11.3	
	1.8513	19.3	H	0.90	8.01	26.38	33.0	-6.6	
	Mid Ch								
	1.8800	14.8	V	0.90	8.01	21.87	33.0	-11.1	
	1.8800	18.5	H	0.90	8.01	25.61	33.0	-7.4	
High Ch									
1.9088	16.7	V	0.90	8.01	23.78	33.0	-9.2		
1.9088	18.5	H	0.90	8.01	25.65	33.0	-7.4		
Rev. 3.17.11									

Band BC1 1xRTT	High Frequency Fundamental Measurement UL Verification Services, Inc.																																																																																																
	Company:		LG Electronics																																																																																														
	Project #:		15I21523																																																																																														
	Date:		8/26/2015																																																																																														
	Test Engineer:		R.Alegre																																																																																														
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Rev. 3.17.11																																																																																																	

Band BC0	High Frequency Substitution Measurement UL Verification Services							
	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: A. Escamilla Configuration: EUT Only Mode: CDMA EVDO BC0							
Test Equipment: Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable 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	14.84	V	0.9	0.0	13.94	38.5	-24.5	
824.70	22.78	H	0.9	0.0	21.88	38.5	-16.6	
Mid Ch								
836.52	14.26	V	0.9	0.0	13.36	38.5	-25.1	
836.52	22.96	H	0.9	0.0	22.06	38.5	-16.4	
High Ch								
848.31	14.99	V	0.9	0.0	14.09	38.5	-24.4	
848.31	23.08	H	0.9	0.0	22.18	38.5	-16.3	
Rev. 3.17.11								

Band BC0 1xRTT	High Frequency Substitution Measurement UL Verification Services																																																																																																					
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LTE Band 2

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LTE Band 4

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Band LTE5 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.									
	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: R.Alegre Configuration: EUT only Location: Chamber C Mode: LTE_QPSK Band 5 Fundamentals, 1.4MHz Bandwidth									
	Test Equipment: Receiving: Hybrid T185, and Chamber C SMA Cables Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse									
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes	
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)		
	Low Ch									
	814.70	13.97	V	0.9	0.0	13.07	38.5	-25.4		
	814.70	23.76	H	0.9	0.0	22.86	38.5	-15.6		
	Mid Ch									
	831.50	13.77	V	0.9	0.0	12.87	38.5	-25.6		
831.50	23.52	H	0.9	0.0	22.62	38.5	-15.9			
High Ch										
848.30	14.13	V	0.9	0.0	13.23	38.5	-25.3			
848.30	22.15	H	0.9	0.0	21.25	38.5	-17.3			

LTE Band 7

Band LTE7 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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	Project #:		15I21523																																																																																															
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711.00	18.67	H	0.9	0.0	17.77	34.8	-17.0																																																																																															

Band LTE12 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: A. Escamilla Configuration: EUT Only Location: Chamber A Mode: LTE_QPSK Band 12 Fundamentals, 10MHz Bandwidth								
	Test Equipment: Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	704.00	8.57	V	0.9	0.0	7.67	34.8	-27.1	
	704.00	19.34	H	0.9	0.0	18.44	34.8	-16.4	
	Mid Ch								
	707.50	8.49	V	0.9	0.0	7.59	34.8	-27.2	
707.50	20.46	H	0.9	0.0	19.56	34.8	-15.2		
High Ch									
711.00	8.98	V	0.9	0.0	8.08	34.8	-26.7		
711.00	19.46	H	0.9	0.0	18.56	34.8	-16.2		

Band LTE12 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: A. Escamilla Configuration: EUT Only Location: Chamber A Mode: LTE_QPSK Band 12 Fundamentals, 5MHz Bandwidth								
	Test Equipment: Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	701.50	8.64	V	0.9	0.0	7.74	34.8	-27.0	
	701.50	19.19	H	0.9	0.0	18.29	34.8	-16.5	
	Mid Ch								
	707.50	8.58	V	0.9	0.0	7.68	34.8	-27.1	
	707.50	20.08	H	0.9	0.0	19.18	34.8	-15.6	
High Ch									
713.50	8.49	V	0.9	0.0	7.59	34.8	-27.2		
713.50	19.09	H	0.9	0.0	18.19	34.8	-16.6		

Band LTE12 3MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21523																																																																																															
	Date:		8/25/2015																																																																																															
	Test Engineer:		A. Escamilla																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber A																																																																																															
	Mode:		LTE_16QAM Band 12 Fundamentals, 3MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse																																																																																															
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
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Band LTE12 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.									
	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: A. Escamilla Configuration: EUT Only Location: Chamber A Mode: LTE_QPSK Band 12 Fundamentals, 3MHz Bandwidth									
	Test Equipment: Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch									
	700.50	8.38	V	0.9	0.0	7.48	34.8	-27.3		
	700.50	19.18	H	0.9	0.0	18.28	34.8	-16.5		
	Mid Ch									
	707.50	8.46	V	0.9	0.0	7.56	34.8	-27.2		
	707.50	20.14	H	0.9	0.0	19.24	34.8	-15.5		
High Ch										
714.50	8.66	V	0.9	0.0	7.76	34.8	-27.0			
714.50	19.03	H	0.9	0.0	18.13	34.8	-16.6			

Band LTE12 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: A. Escamilla Configuration: EUT Only Location: Chamber A Mode: LTE_16QAM Band 12 Fundamentals, 1.4MHz Bandwidth								
	Test Equipment: Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	699.70	8.86	V	0.9	0.0	7.96	34.8	-26.8	
	699.70	18.53	H	0.9	0.0	17.63	34.8	-17.1	
	Mid Ch								
	707.50	8.09	V	0.9	0.0	7.19	34.8	-27.6	
707.50	19.27	H	0.9	0.0	18.37	34.8	-16.4		
High Ch									
715.30	8.78	V	0.9	0.0	7.88	34.8	-26.9		
715.30	18.30	H	0.9	0.0	17.40	34.8	-17.4		

Band LTE12 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
	Company:		LG																																																																																																			
	Project #:		15I21523																																																																																																			
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715.30	19.06	H	0.9	0.0	18.16	34.8	-16.6																																																																																															

LTE Band 13

Band LTE13 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																		
	Company:		LG																																																																																																
	Project #:		15I21523																																																																																																
	Date:		8/25/2015																																																																																																
	Test Engineer:		A. Escamilla																																																																																																
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	Test Equipment:		Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse																																																																																																
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Band LTE13 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.									
	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: A. Escamilla Configuration: EUT Only Location: Chamber A Mode: LTE_QPSK Band 13 Fundamentals, 10MHz Bandwidth									
	Test Equipment: Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch									
	Mid Ch									
	782.00	11.59	V	0.9	0.0	10.69	34.8	-24.1		
	782.00	20.40	H	0.9	0.0	19.50	34.8	-15.3		
	High Ch									

Band LTE13 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																										
Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: A. Escamilla Configuration: EUT Only Location: Chamber A Mode: LTE_16QAM Band 13 Fundamentals, 5MHz Bandwidth																																																																																											
Test Equipment: Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse																																																																																											
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Band LTE13 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: A. Escamilla Configuration: EUT Only Location: Chamber A Mode: LTE_QPSK Band 13 Fundamentals, 5MHz Bandwidth								
	Test Equipment: Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	779.50	11.93	V	0.9	0.0	11.03	34.8	-23.7	
	779.50	20.16	H	0.9	0.0	19.26	34.8	-15.5	
	Mid Ch								
	782.00	11.46	V	0.9	0.0	10.56	34.8	-24.2	
782.00	20.30	H	0.9	0.0	19.40	34.8	-15.4		
High Ch									
784.50	11.85	V	0.9	0.0	10.95	34.8	-23.8		
784.50	20.61	H	0.9	0.0	19.71	34.8	-15.1		

LTE Band 17

Band LTE17 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21523																																																																																															
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	Test Engineer:		A. Escamilla																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber A																																																																																															
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Band LTE17 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: A. Escamilla Configuration: EUT Only Location: Chamber A Mode: LTE_QPSK Band 17 Fundamentals, 10MHz Bandwidth								
	Test Equipment: Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	709.00	8.57	V	0.9	0.0	7.67	34.8	-27.1	
	709.00	19.34	H	0.9	0.0	18.44	34.8	-16.3	
	Mid Ch								
	710.00	8.49	V	0.9	0.0	7.59	34.8	-27.2	
710.00	20.46	H	0.9	0.0	19.56	34.8	-15.2		
High Ch									
711.00	8.98	V	0.9	0.0	8.08	34.8	-26.7		
711.00	19.46	H	0.9	0.0	18.56	34.8	-16.2		

Band LTE17 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company: LG																																																																																																	
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	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: A. Escamilla Configuration: EUT Only Location: Chamber A Mode: LTE_QPSK Band 17 Fundamentals, 5MHz Bandwidth									
	Test Equipment: Receiving: T477, and Chamber A Cable Substitution: Dipole T416, 4ft SMA Cable Warehouse									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch									
	706.50	8.64	V	0.9	0.0	7.74	34.8	-27.0		
	706.50	19.19	H	0.9	0.0	18.29	34.8	-16.5		
	Mid Ch									
	710.00	8.58	V	0.9	0.0	7.68	34.8	-27.1		
	710.00	20.08	H	0.9	0.0	19.18	34.8	-15.6		
High Ch										
713.50	8.49	V	0.9	0.0	7.59	34.8	-27.2			
713.50	19.09	H	0.9	0.0	18.19	34.8	-16.6			

LTE Band 25

Band LTE25 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG Electronics																																																																																															
	Project #:		15I21523																																																																																															
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LTE Band 26

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	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	816.50	13.18	V	0.9	0.0	12.28	50.0	-37.7	
	816.50	22.72	H	0.9	0.0	21.82	50.0	-28.2	
	Mid Ch								
	831.50	13.02	V	0.9	0.0	12.12	38.5	-26.4	
831.50	23.25	H	0.9	0.0	22.35	38.5	-16.2		
High Ch									
846.50	12.80	V	0.9	0.0	11.90	38.5	-26.6		
846.50	21.43	H	0.9	0.0	20.53	38.5	-18.0		

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847.50	21.26	H	0.9	0.0	20.36	38.5	-18.1																																																																																											

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Band LTE26 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.									
	Company: LG Project #: 15I21523 Date: 8/25/2015 Test Engineer: R.Alegre Configuration: EUT only Location: Chamber C Mode: LTE_QPSK Band 26 Fundamentals, 1.4MHz Bandwidth									
	Test Equipment: Receiving: Hybrid T185, and Chamber C SMA Cables Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse									
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes	
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)		
	Low Ch									
	814.70	13.97	V	0.9	0.0	13.07	50.0	-36.9		
	814.70	23.76	H	0.9	0.0	22.86	50.0	-27.1		
	Mid Ch									
	831.50	13.77	V	0.9	0.0	12.87	38.5	-25.6		
831.50	23.52	H	0.9	0.0	22.62	38.5	-15.9			
High Ch										
848.30	14.13	V	0.9	0.0	13.23	38.5	-25.3			
848.30	22.15	H	0.9	0.0	21.25	38.5	-17.3			

LTE Band 41

Band LTE41 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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