

<p>Band LTE25 3MHz</p>	 <p>Band LTE25 3MHz OBW 16QAM Mid Channel FRB.gif</p>	 <p>Band LTE25 3MHz OBW QPSK Mid Channel FRB.gif</p>
<p>Band LTE25 1.4MHz</p>	 <p>Band LTE25 1.4MHz OBW 16QAM Mid Channel FRB.gif</p>	 <p>Band LTE25 1.4MHz OBW QPSK Mid Channel FRB.gif</p>

LTE Band 26

<p>Band LTE26 15MHz</p>	<p>Agilent 22:57:44 Jul 26, 2015 R T Freq/Channel</p> <p>Ch Freq 836.5 MHz Trig Free</p> <p>Center Freq 836.500000 MHz</p> <p>Occupied Bandwidth</p> <p>Start Freq 825.250000 MHz</p> <p>Stop Freq 847.750000 MHz</p> <p>CF Step 2.25000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Center 836.500 0 MHz Span 22.5 MHz</p> <p>#Res BW 220 kHz VBW 680 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 13.4224 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 5.720 kHz</p> <p>x dB Bandwidth 14.609 MHz</p> <p>Signal Track On</p> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE26 15MHz OBW 16QAM Mid Channel FRB.gif</p>	<p>Agilent 22:57:17 Jul 26, 2015 R T Freq/Channel</p> <p>Ch Freq 836.5 MHz Trig Free</p> <p>Center Freq 836.500000 MHz</p> <p>Occupied Bandwidth</p> <p>Start Freq 825.250000 MHz</p> <p>Stop Freq 847.750000 MHz</p> <p>CF Step 2.25000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Center 836.500 0 MHz Span 22.5 MHz</p> <p>#Res BW 220 kHz VBW 680 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 13.4132 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 5.495 kHz</p> <p>x dB Bandwidth 14.578 MHz</p> <p>Signal Track On</p> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE26 15MHz OBW QPSK Mid Channel FRB.gif</p>
<p>Band LTE26 10MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 831.500000 MHz</p> <p>Center Freq 831.500000 MHz</p> <p>Radio Stat: None</p> <p>Frequency</p> <p>Ref 30.00 dBm</p> <p>Center Freq 831.500000 MHz</p> <p>Center Freq 831.5 MHz</p> <p>#Res BW 150 kHz #VBW 470 kHz Span 15 MHz</p> <p>Sweep 1 ms</p> <p>CF Step 1.500000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p> <p>Occupied Bandwidth 8.9573 MHz</p> <p>Total Power 30.9 dBm</p> <p>Transmit Freq Error -266 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.778 MHz x dB -26.00 dB</p> <p>File <myscreen.png> saved</p> <p>Band LTE26 10MHz OBW 16QAM Mid Channel FRB.gif</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 831.500000 MHz</p> <p>Center Freq 831.500000 MHz</p> <p>Radio Stat: None</p> <p>Frequency</p> <p>Ref 30.00 dBm</p> <p>Center Freq 831.500000 MHz</p> <p>Center Freq 831.5 MHz</p> <p>#Res BW 150 kHz #VBW 470 kHz Span 15 MHz</p> <p>Sweep 1 ms</p> <p>CF Step 1.500000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p> <p>Occupied Bandwidth 8.9875 MHz</p> <p>Total Power 31.6 dBm</p> <p>Transmit Freq Error 8.617 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.722 MHz x dB -26.00 dB</p> <p>File <myscreen.png> saved</p> <p>Band LTE26 10MHz OBW QPSK Mid Channel FRB.gif</p>



LTE Band 41

<p>Band LTE41 20MHz</p>	<p>Agilent 19:54:36 Jul 9, 2015 R T</p> <p>Ch Freq 2.593 GHz Trig Free</p> <p>Center Freq 2.59300000 GHz</p> <p>Start Freq 2.57800000 GHz</p> <p>Stop Freq 2.60800000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>Occupied Bandwidth 17.8592 MHz</p> <p>Transmit Freq Error -6.150 kHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 20MHz OBW 16QAM Mid Channel FRB.gif</p>	<p>Agilent 19:54:18 Jul 9, 2015 R T</p> <p>Ch Freq 2.593 GHz Trig Free</p> <p>Center Freq 2.59300000 GHz</p> <p>Start Freq 2.57800000 GHz</p> <p>Stop Freq 2.60800000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>Occupied Bandwidth 17.8493 MHz</p> <p>Transmit Freq Error 169.230 Hz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 20MHz OBW QPSK Mid Channel FRB.gif</p>
<p>Band LTE41 15MHz</p>	<p>Agilent 19:49:09 Jul 9, 2015 R T</p> <p>Ch Freq 2.593 GHz Trig Free</p> <p>Center Freq 2.59300000 GHz</p> <p>Start Freq 2.58175000 GHz</p> <p>Stop Freq 2.60425000 GHz</p> <p>CF Step 2.25000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>Occupied Bandwidth 13.4275 MHz</p> <p>Transmit Freq Error -6.804 kHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 15MHz OBW 16QAM Mid Channel FRB.gif</p>	<p>Agilent 19:48:51 Jul 9, 2015 R T</p> <p>Ch Freq 2.593 GHz Trig Free</p> <p>Center Freq 2.59300000 GHz</p> <p>Start Freq 2.58175000 GHz</p> <p>Stop Freq 2.60425000 GHz</p> <p>CF Step 2.25000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>Occupied Bandwidth 13.4034 MHz</p> <p>Transmit Freq Error 8.852 kHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 15MHz OBW QPSK Mid Channel FRB.gif</p>

<p>Band LTE41 10MHz</p>	<p>Agilent 19:44:52 Jul 9, 2015</p> <p>Ch Freq 2.593 GHz Trig Free</p> <p>Center Freq 2.59300000 GHz</p> <p>Start Freq 2.58550000 GHz</p> <p>Stop Freq 2.60050000 GHz</p> <p>CF Step 1.50000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>Occupied Bandwidth 8.9508 MHz</p> <p>Transmit Freq Error -845.504 Hz</p> <p>x dB Bandwidth 10.028 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 10MHz OBW 16QAM Mid Channel FRB.gif</p>	<p>Agilent 19:44:34 Jul 9, 2015</p> <p>Ch Freq 2.593 GHz Trig Free</p> <p>Center Freq 2.59300000 GHz</p> <p>Start Freq 2.58550000 GHz</p> <p>Stop Freq 2.60050000 GHz</p> <p>CF Step 1.50000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>Occupied Bandwidth 8.9506 MHz</p> <p>Transmit Freq Error -3.273 kHz</p> <p>x dB Bandwidth 9.612 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 10MHz OBW QPSK Mid Channel FRB.gif</p>
<p>Band LTE41 5MHz</p>	<p>Agilent 19:37:41 Jul 9, 2015</p> <p>Ch Freq 2.593 GHz Trig Free</p> <p>Center Freq 2.59300000 GHz</p> <p>Start Freq 2.58925000 GHz</p> <p>Stop Freq 2.59675000 GHz</p> <p>CF Step 750.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>Occupied Bandwidth 4.4696 MHz</p> <p>Transmit Freq Error -7.535 kHz</p> <p>x dB Bandwidth 4.838 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 5MHz OBW 16QAM Mid Channel FRB.gif</p>	<p>Agilent 19:37:23 Jul 9, 2015</p> <p>Ch Freq 2.593 GHz Trig Free</p> <p>Center Freq 2.59300000 GHz</p> <p>Start Freq 2.58925000 GHz</p> <p>Stop Freq 2.59675000 GHz</p> <p>CF Step 750.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>Occupied Bandwidth 4.4957 MHz</p> <p>Transmit Freq Error -2.538 kHz</p> <p>x dB Bandwidth 4.833 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 5MHz OBW QPSK Mid Channel FRB.gif</p>

10.2. BAND EDGE EMISSIONS

RULE PART(S)

FCC: §22.359, §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.

Part 90:

(a)(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10} (f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(a)(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. {NOTE: Use 100 kHz reference bandwidth.}

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

The transmitter output was connected to an Agilent 8960 or a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

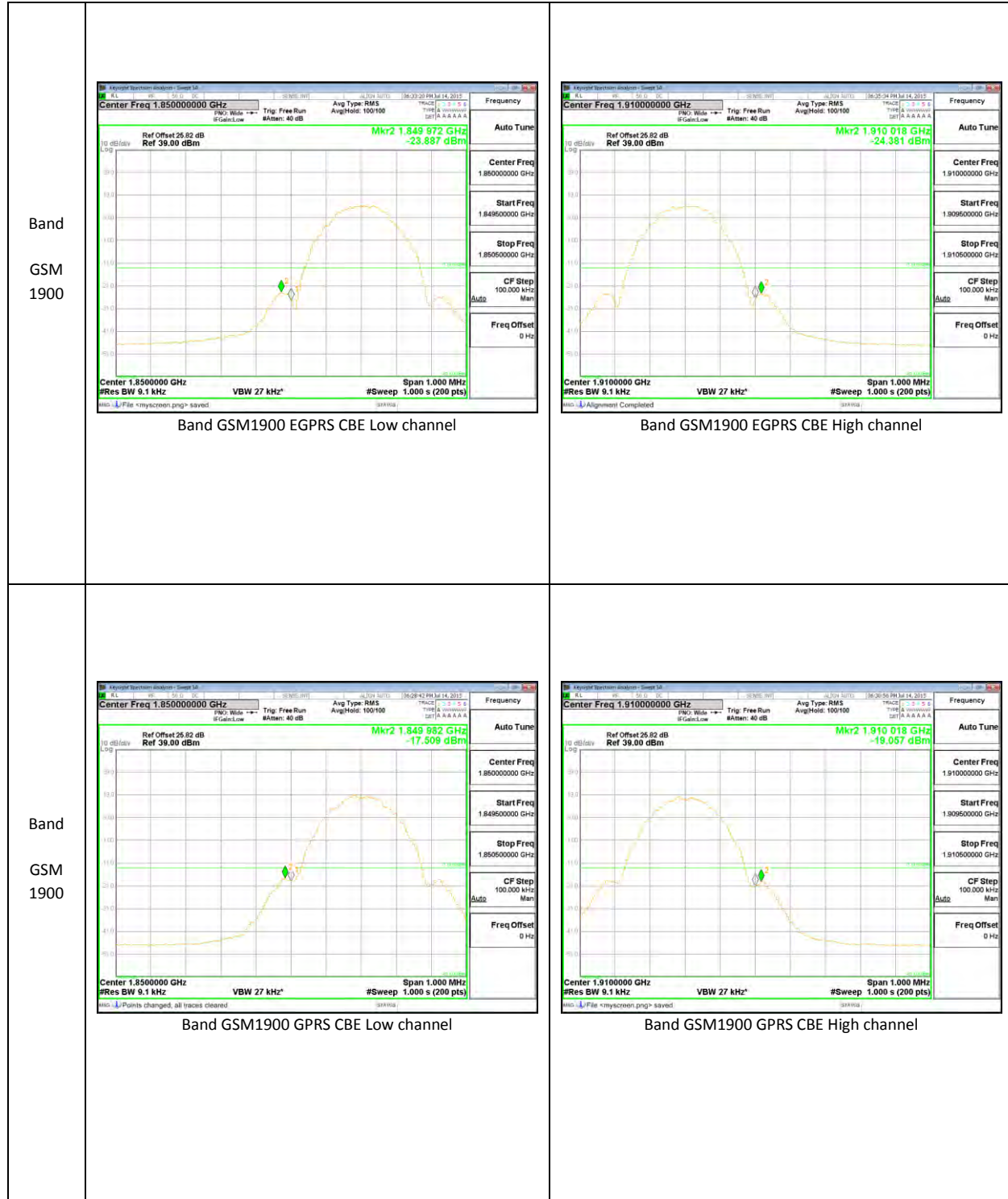
MODES TESTED

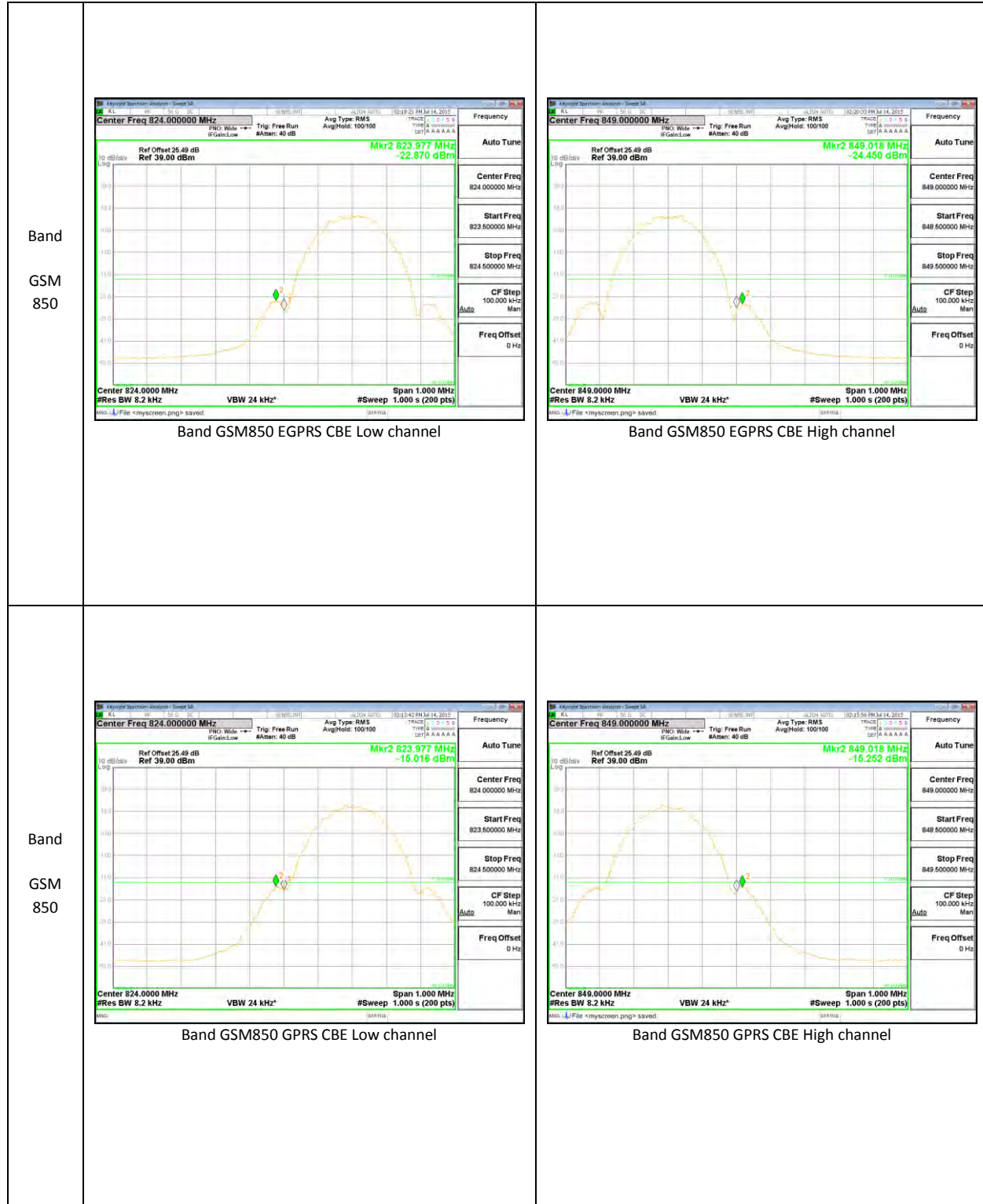
GSM, WCDMA, CDMA, and LTE

RESULTS

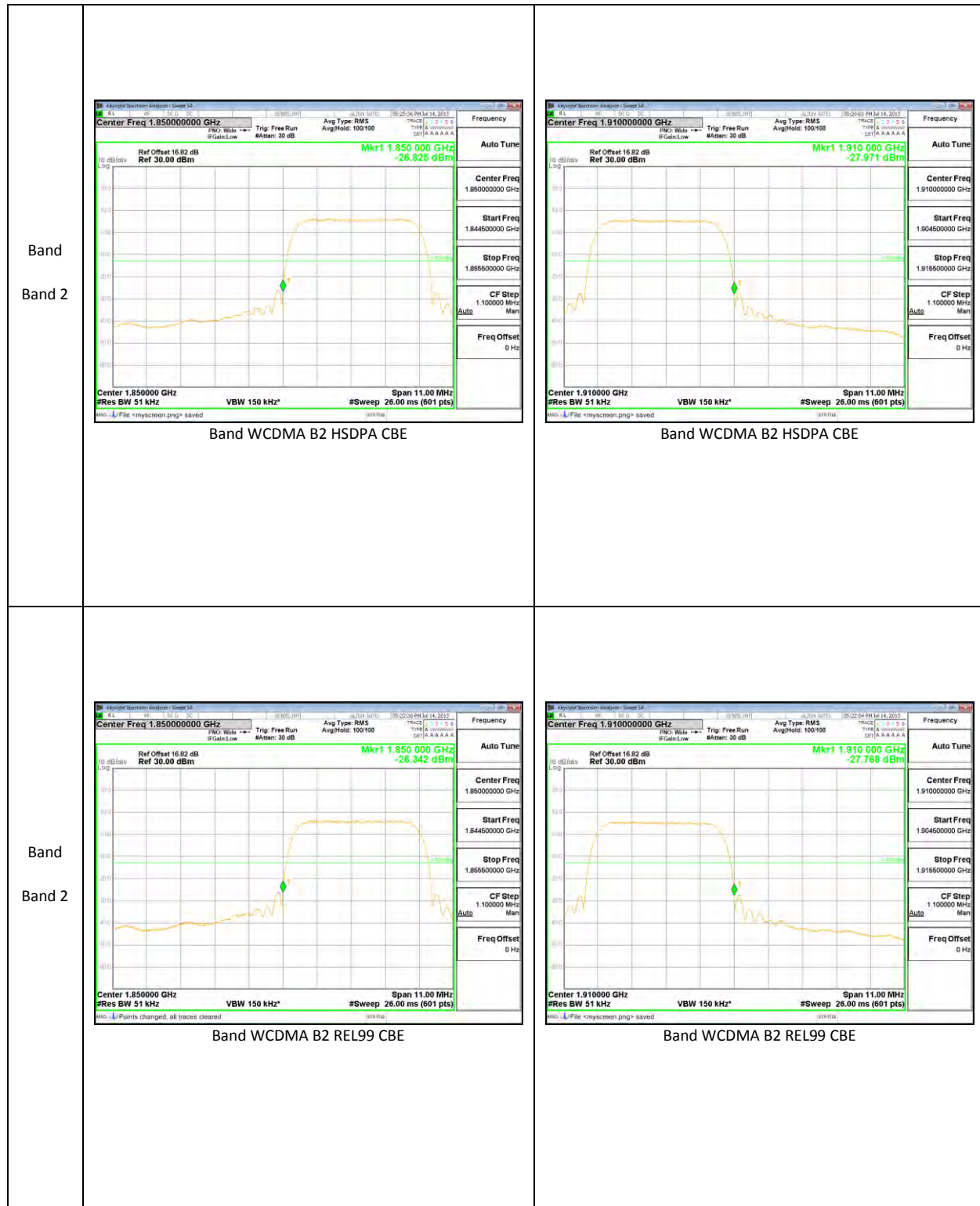
10.2.1. BAND EDGE PLOTS

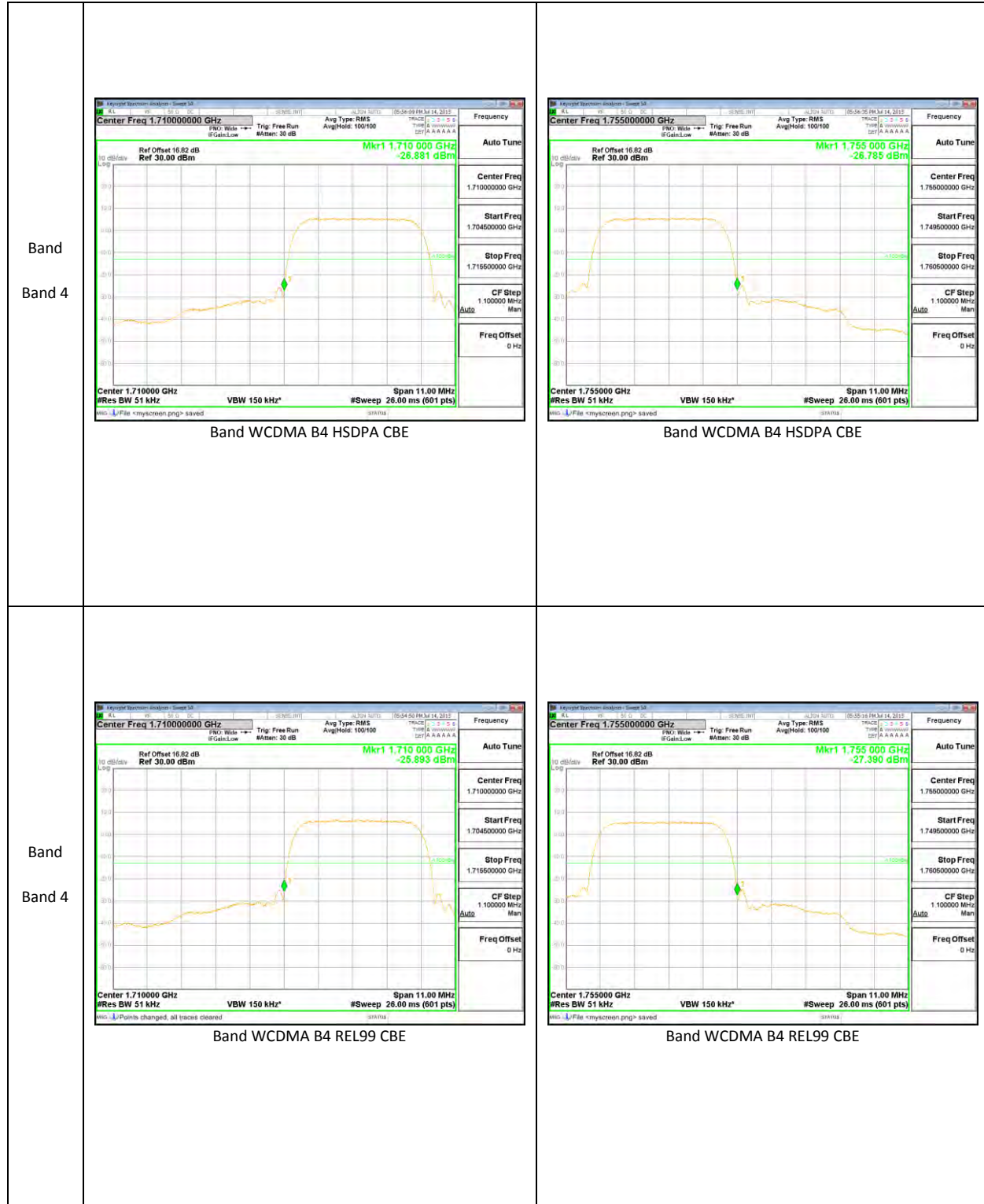
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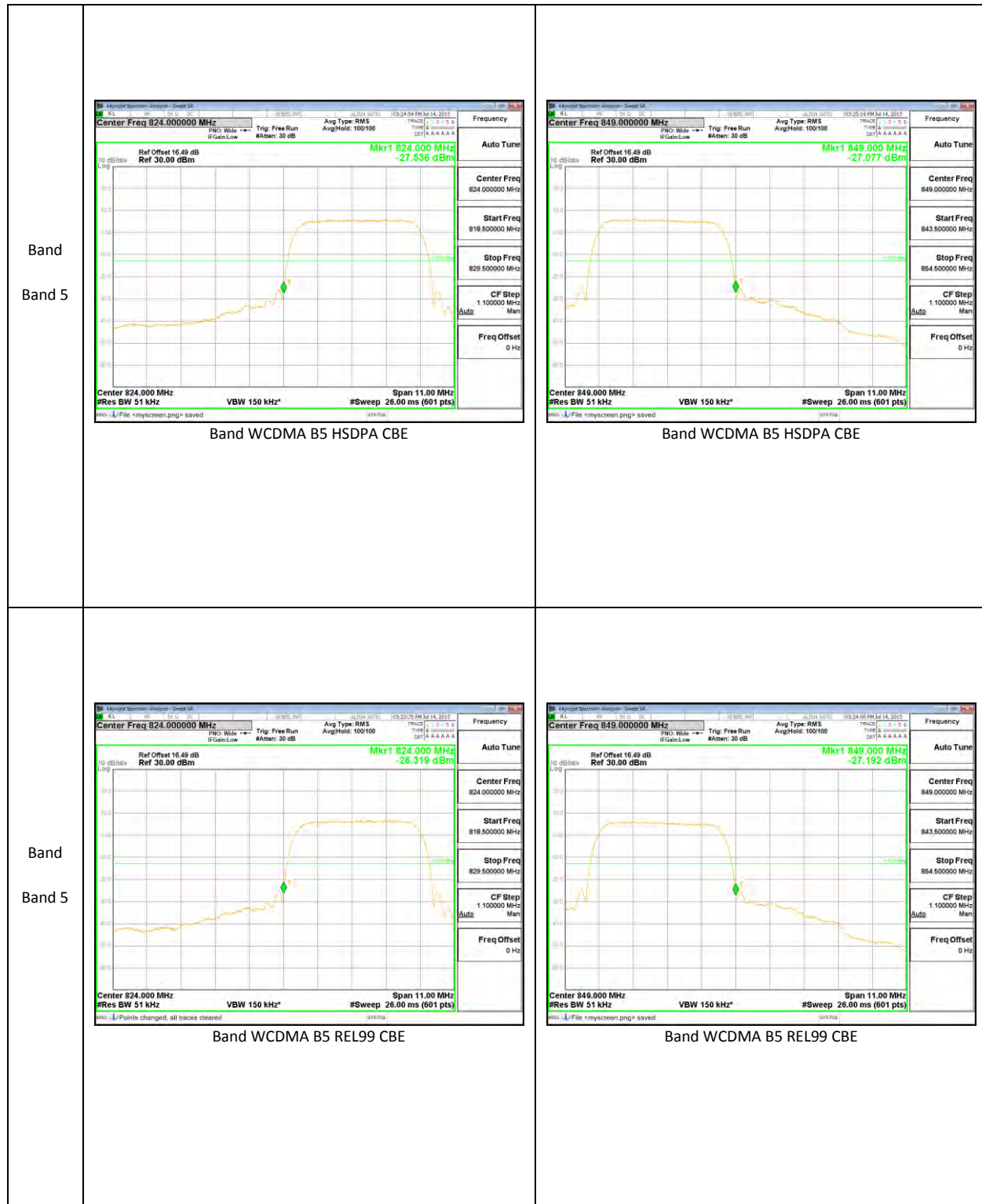




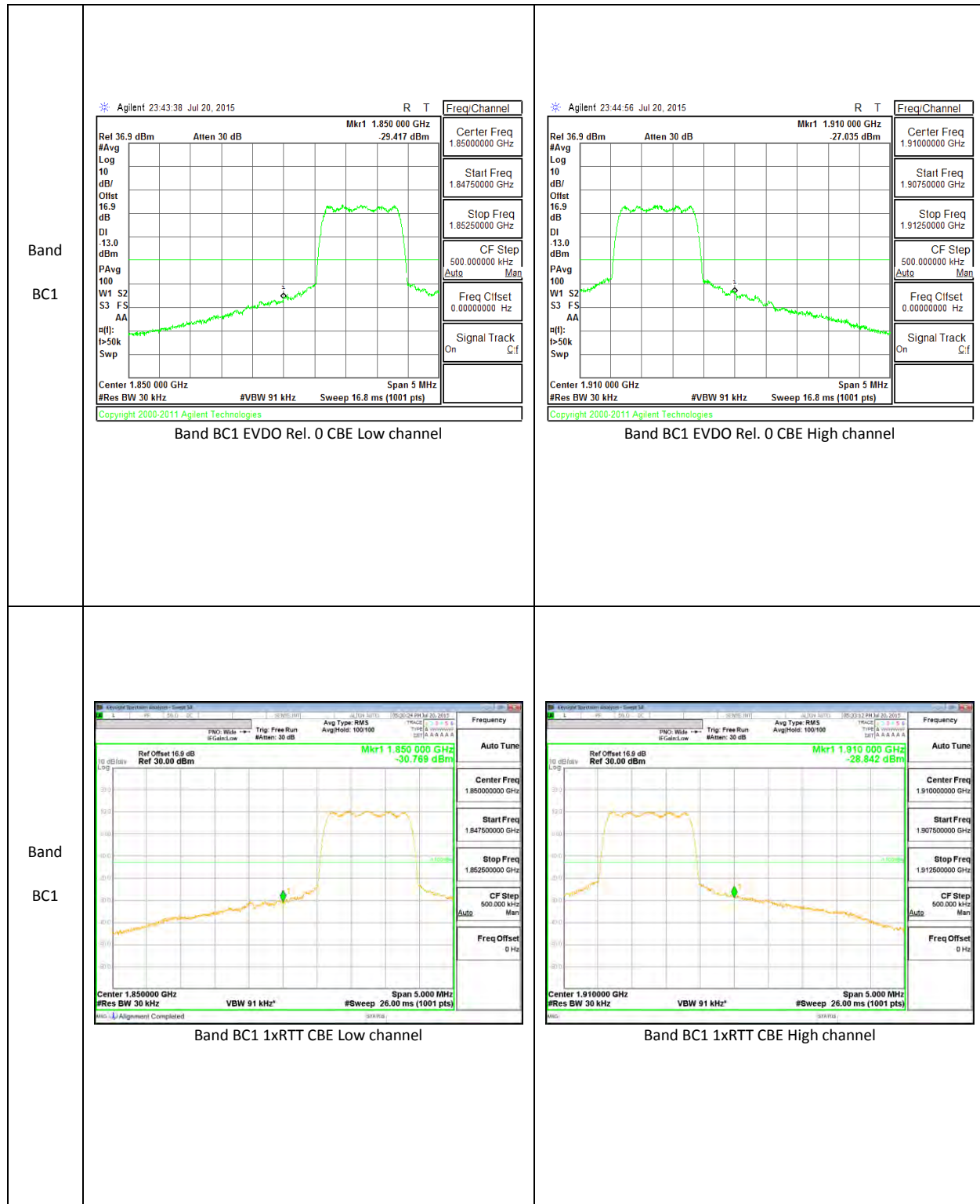
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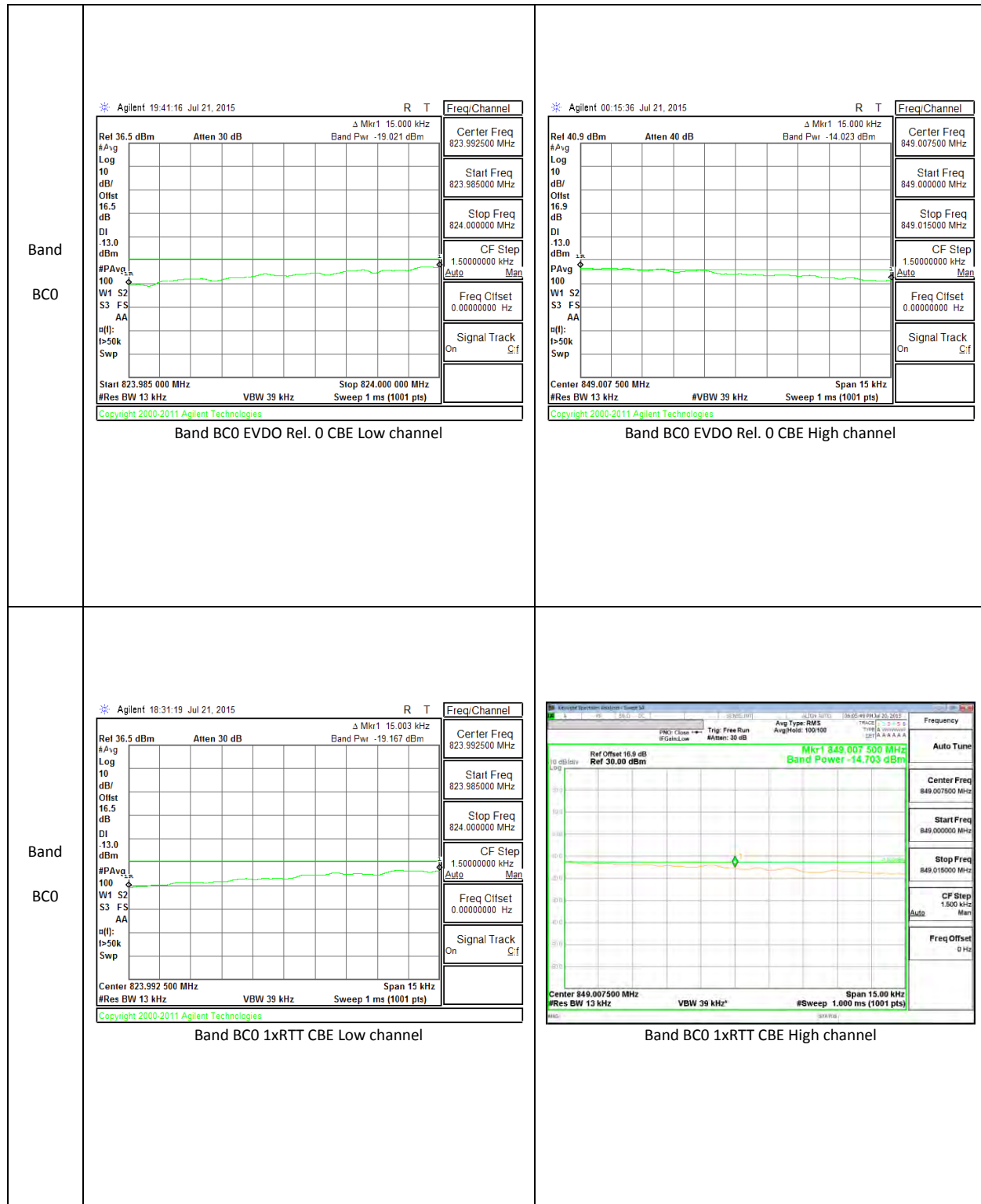


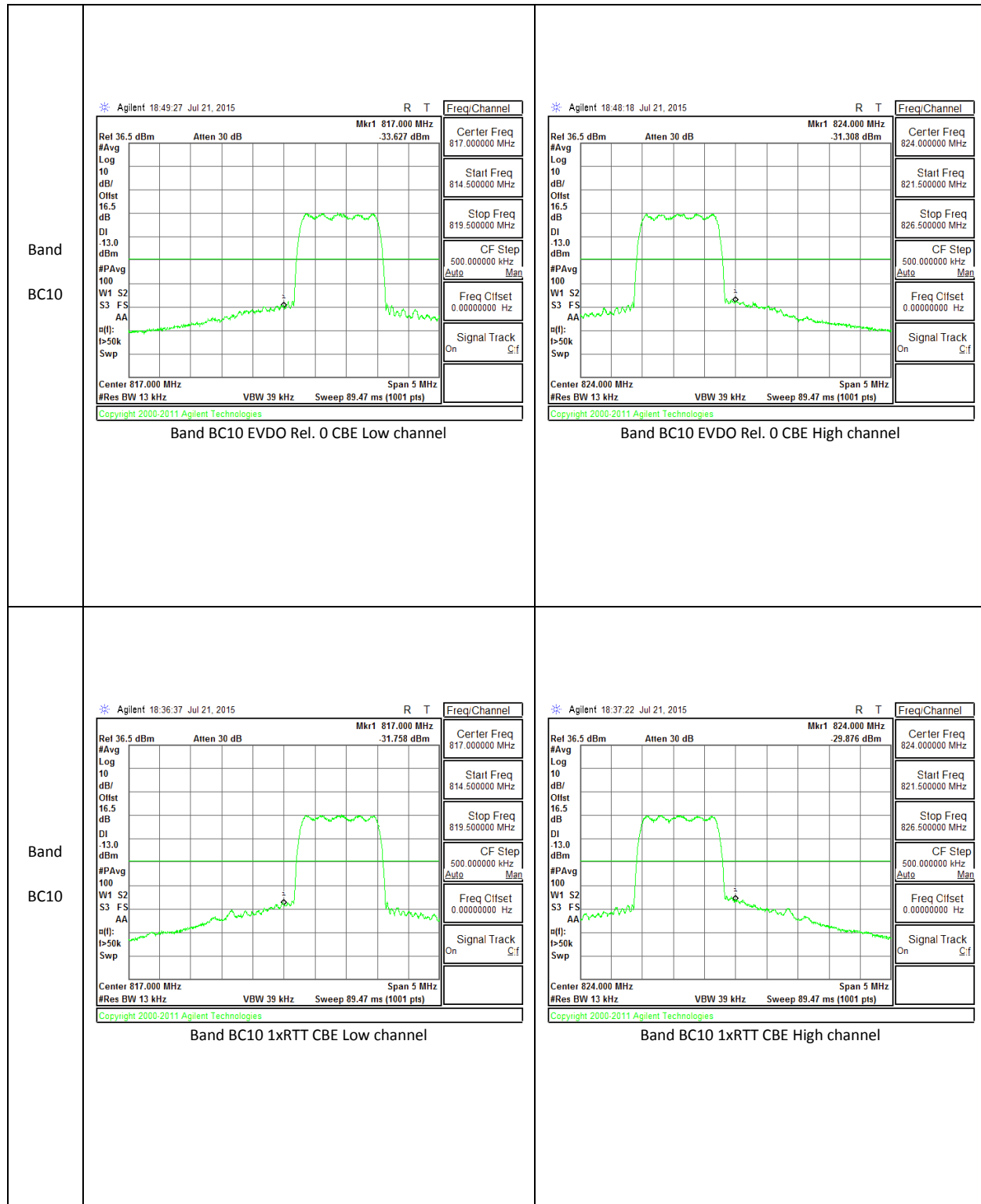




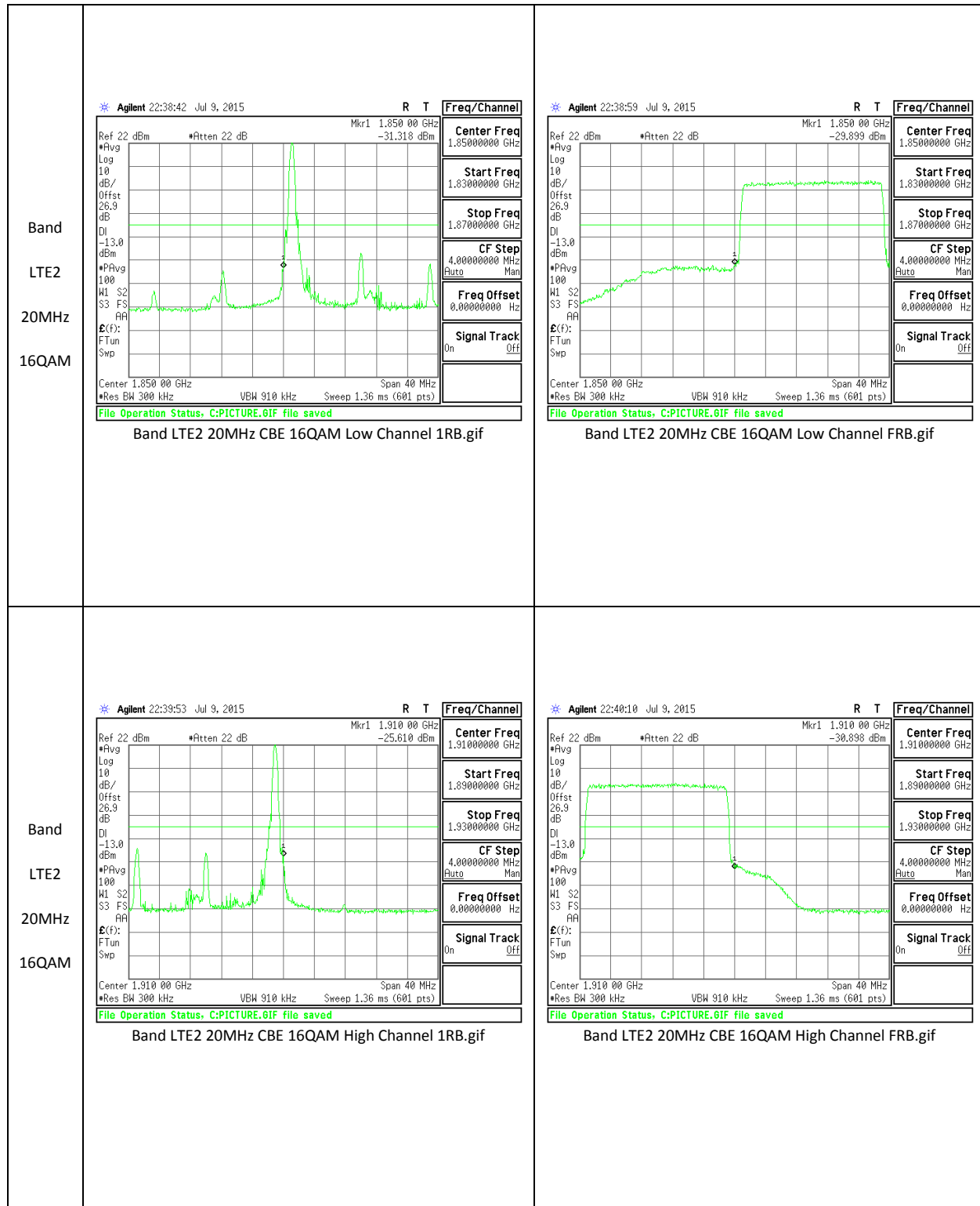
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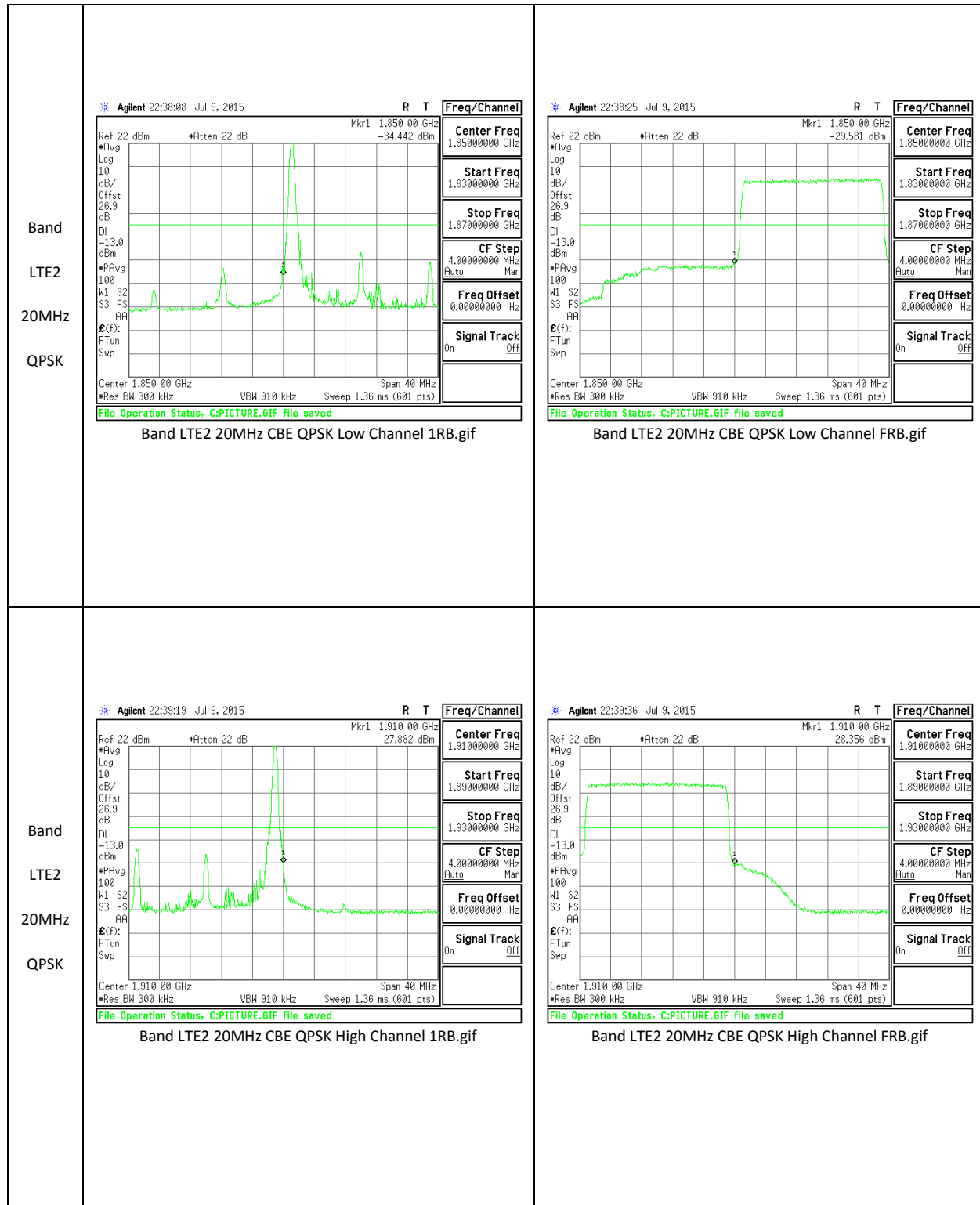


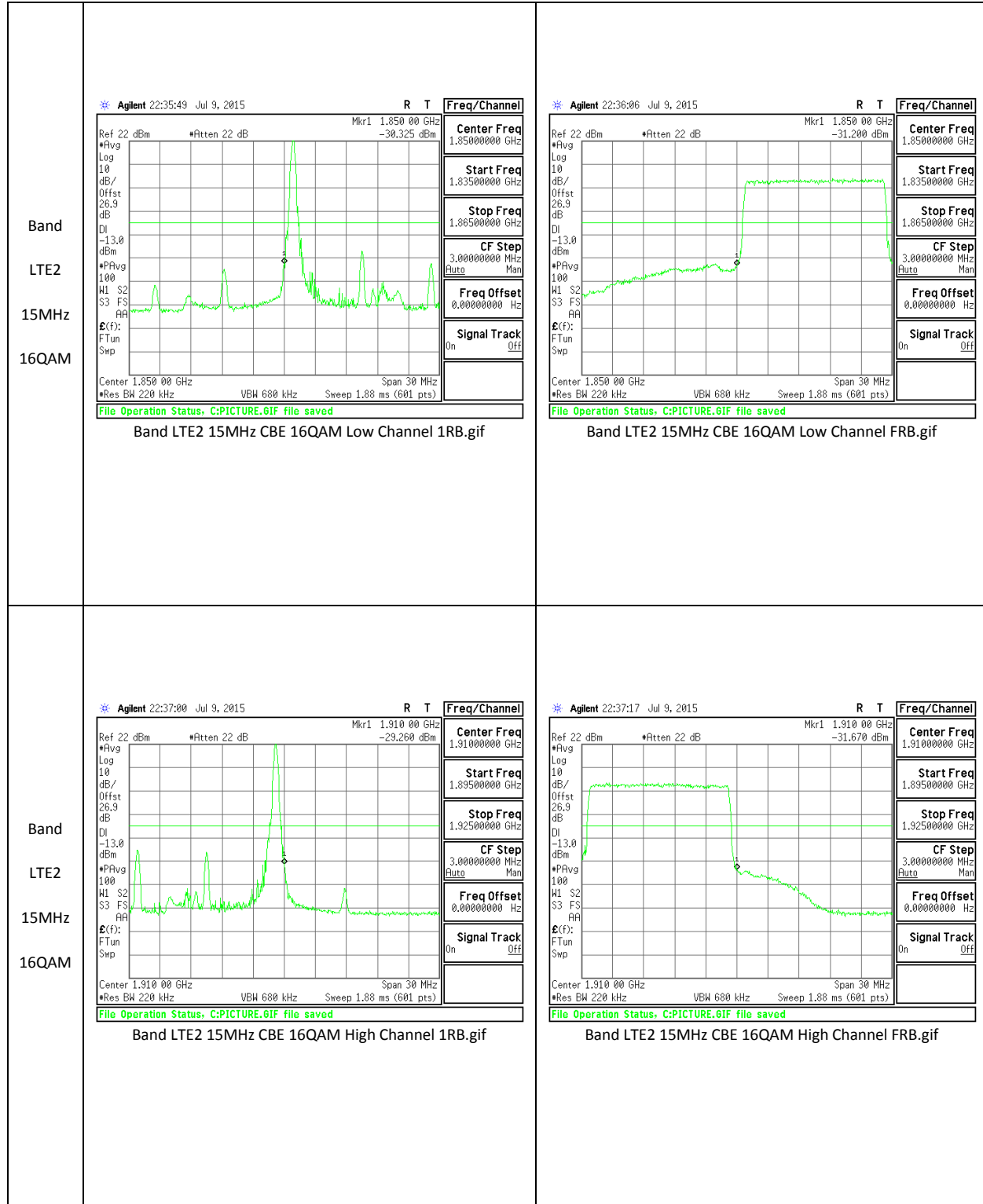


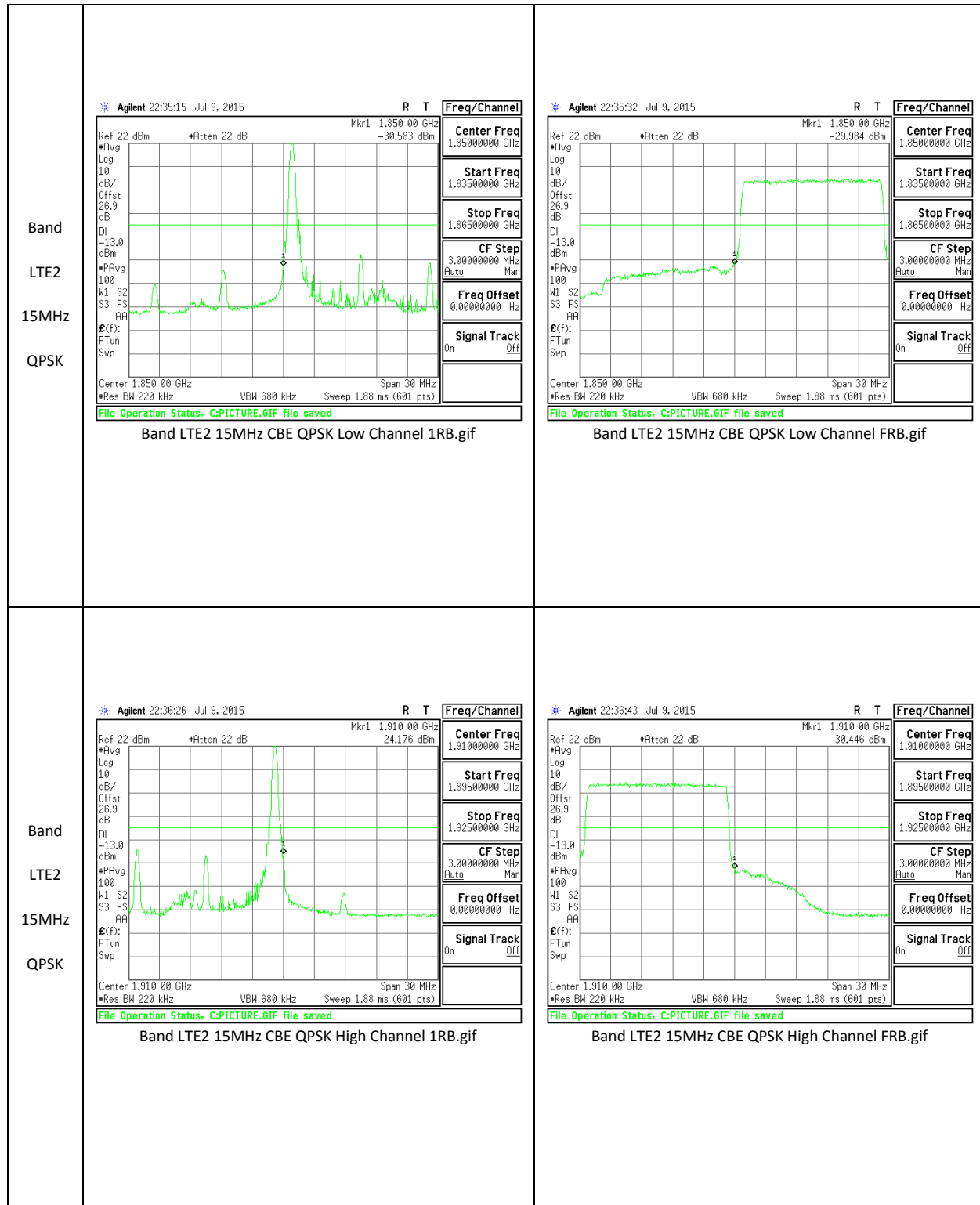


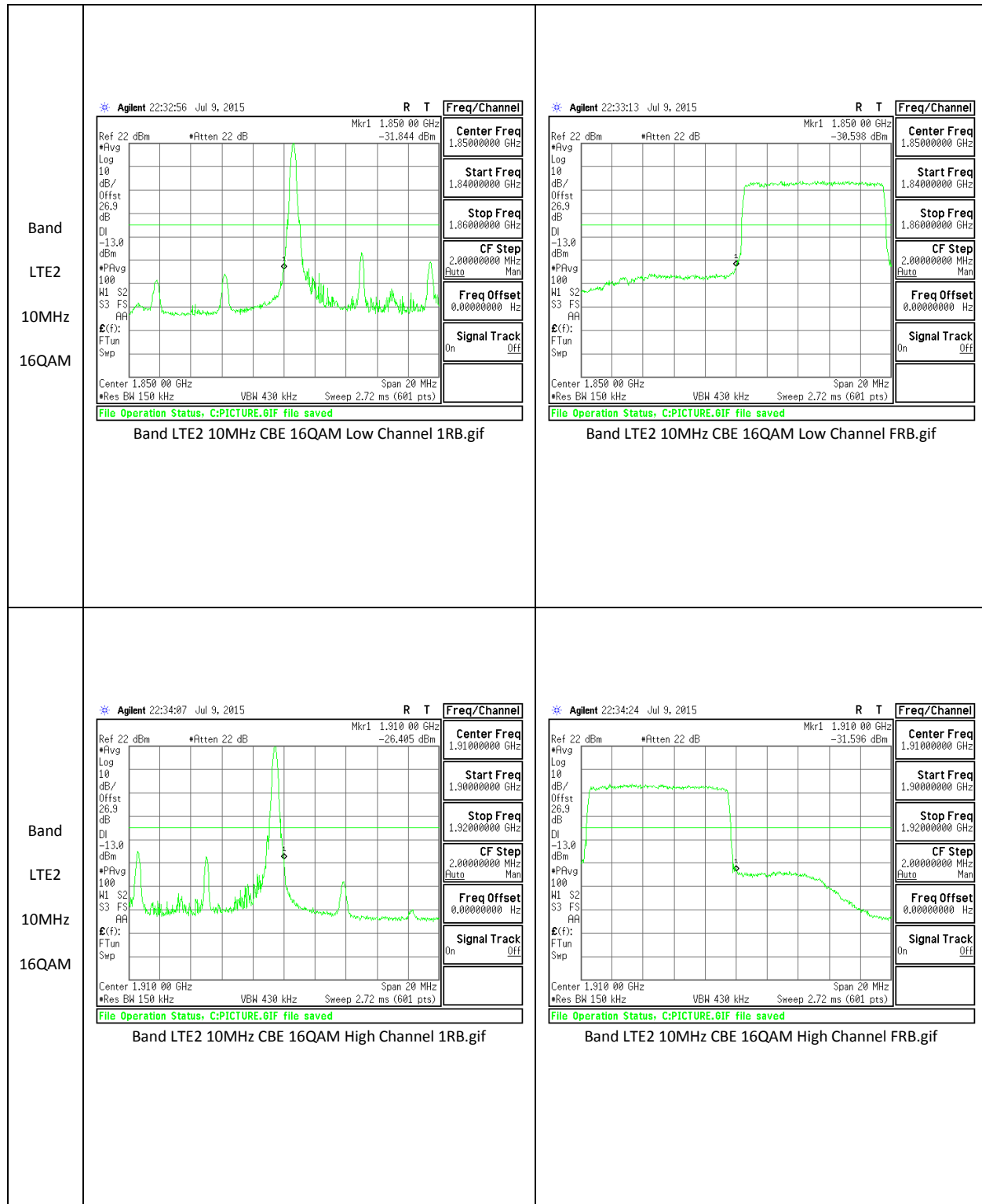
LTE Band 2

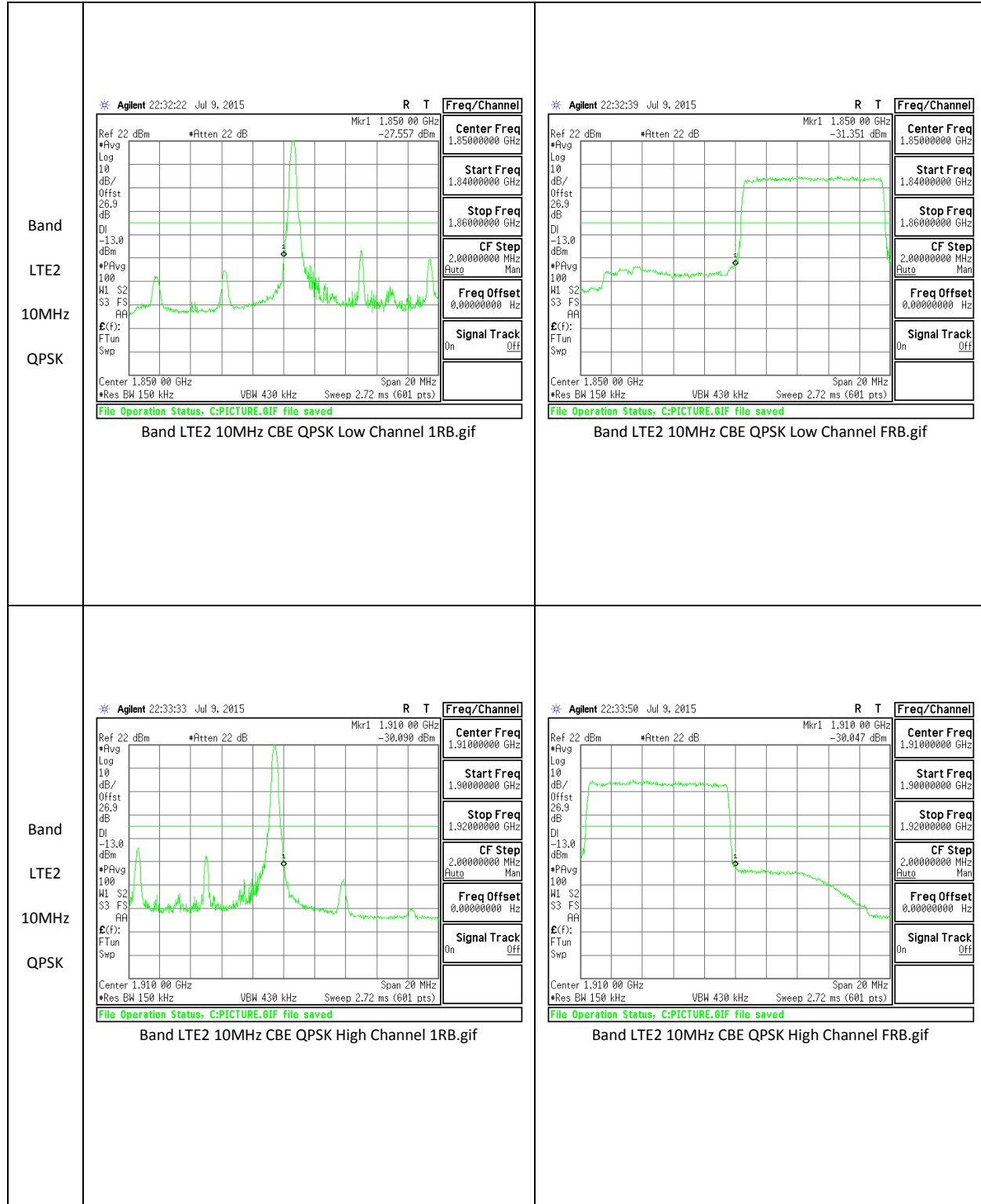


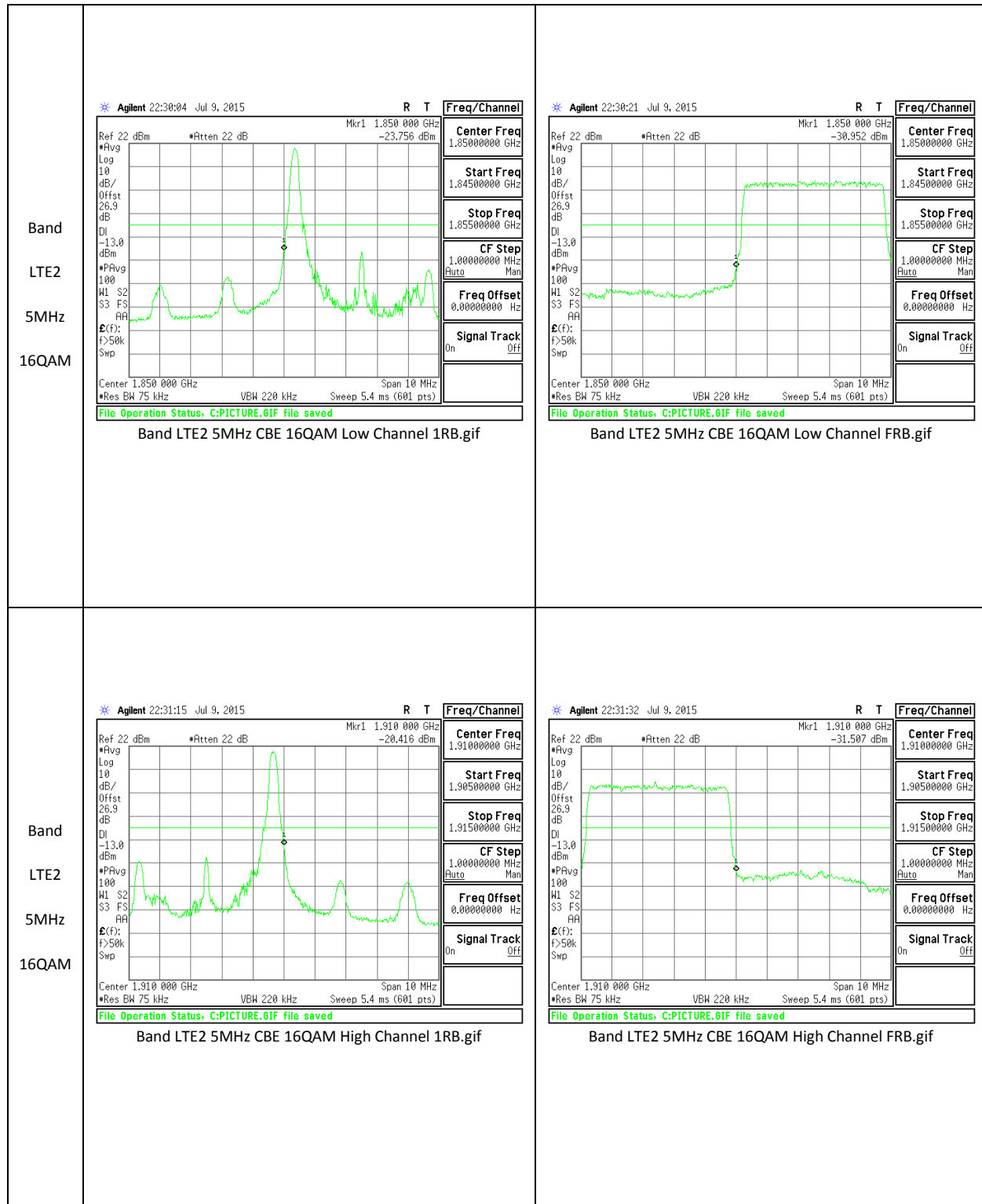


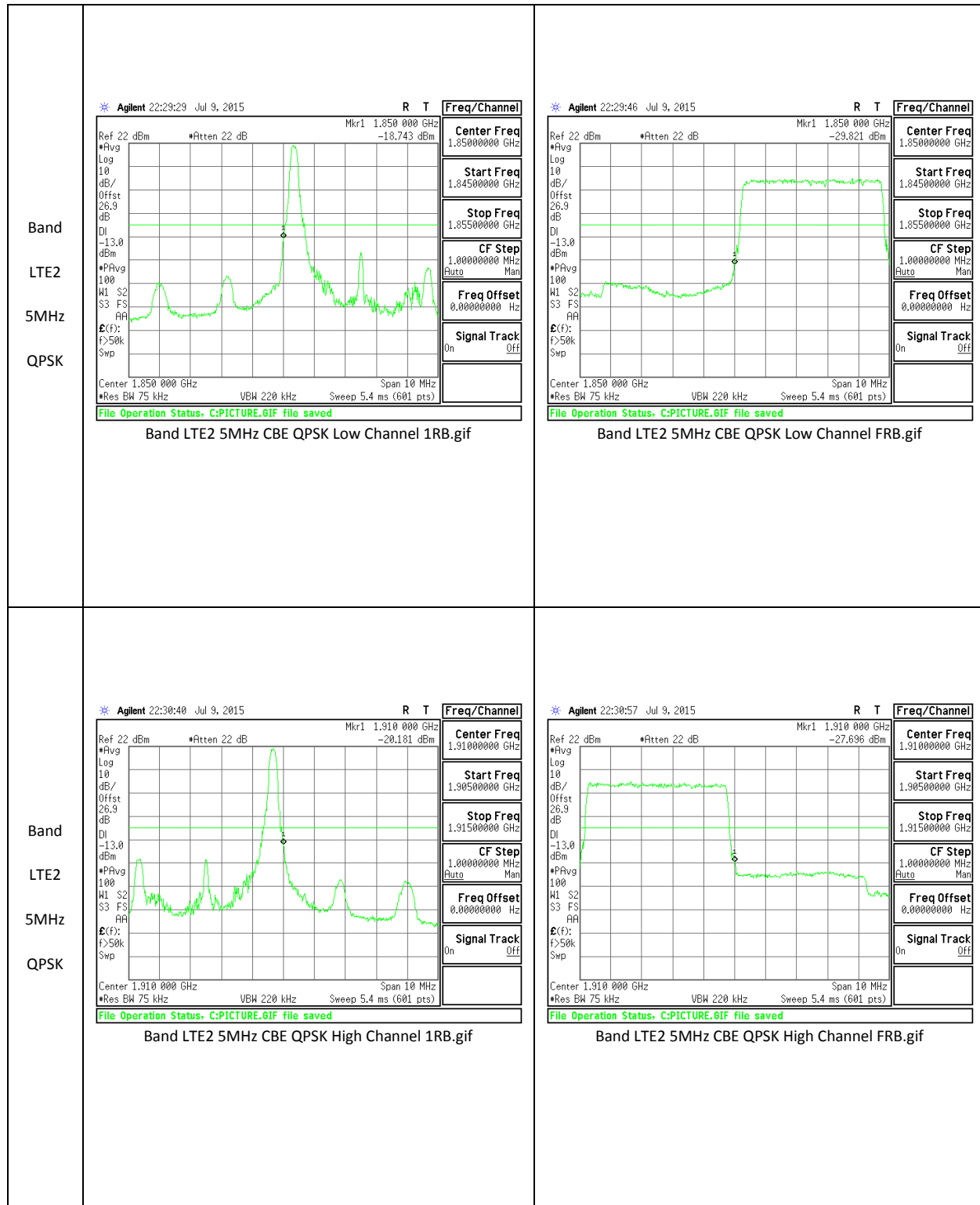


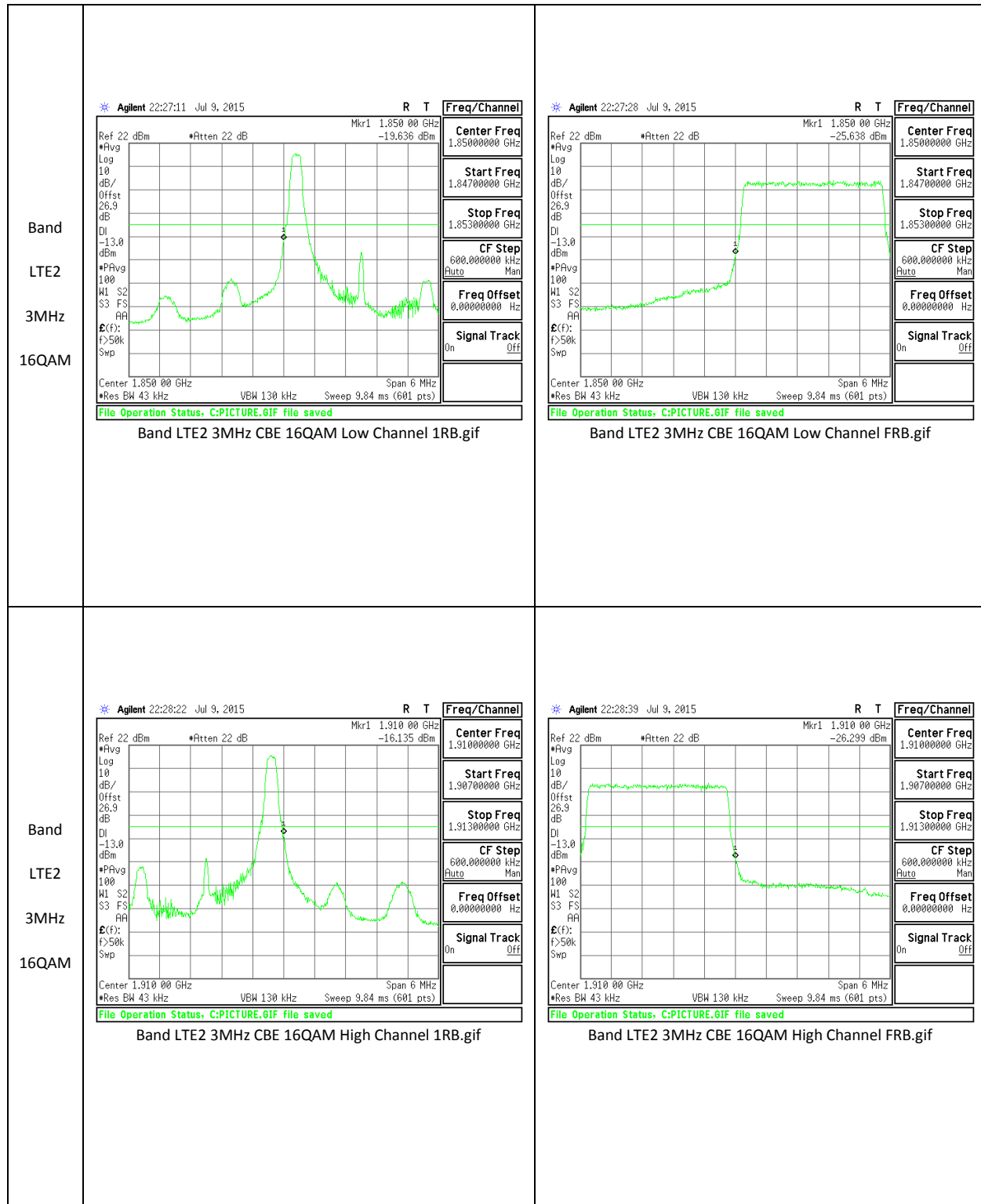


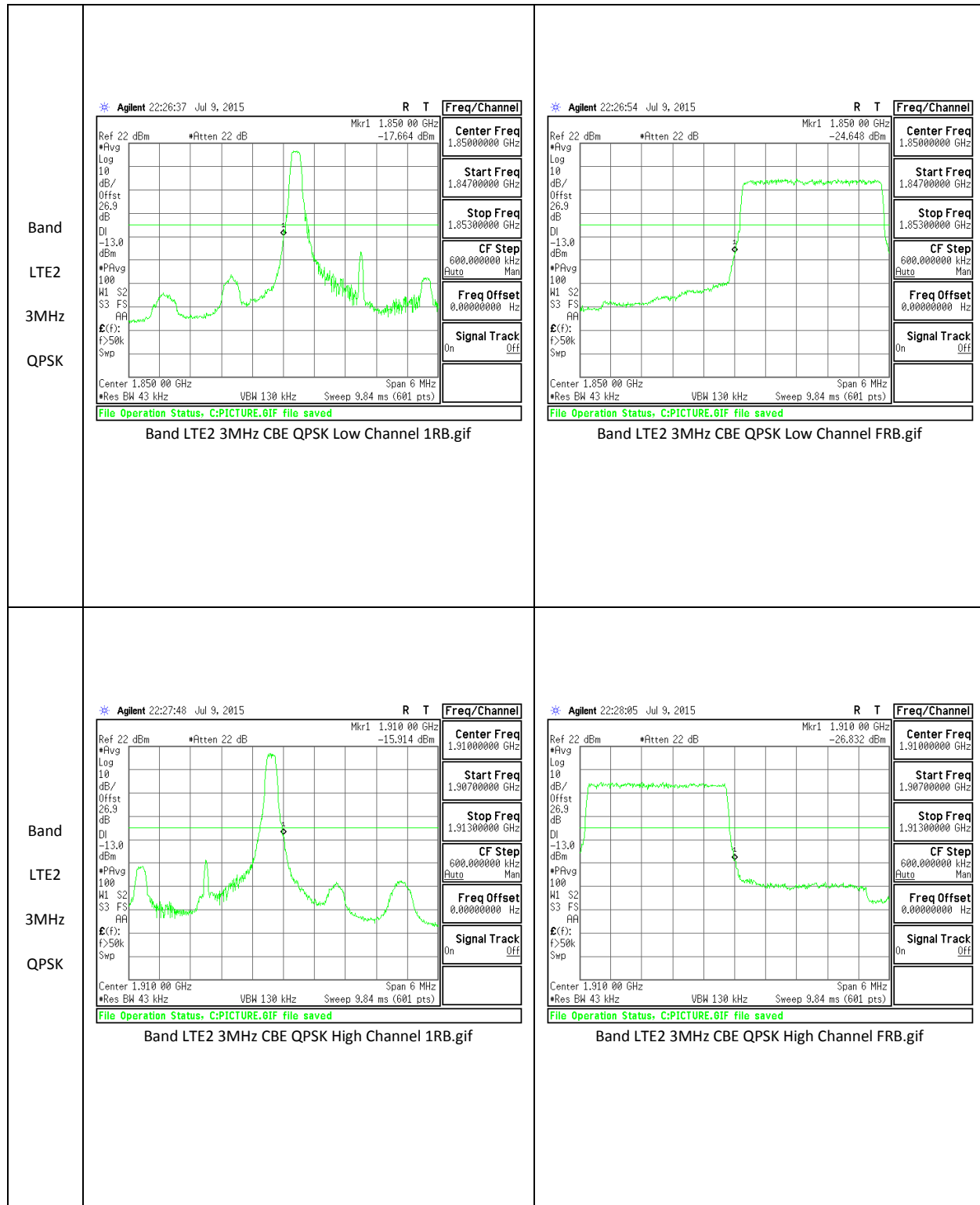


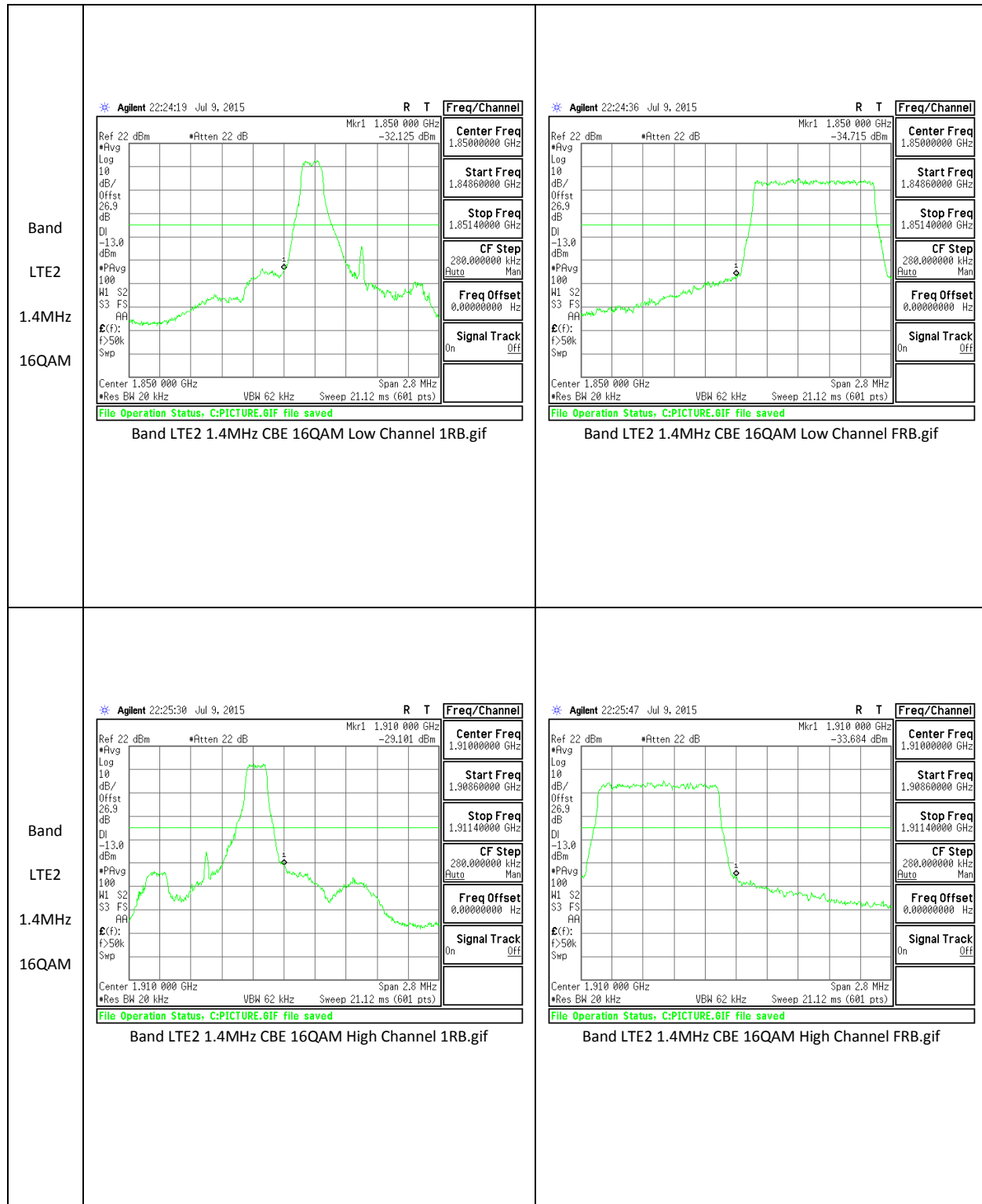


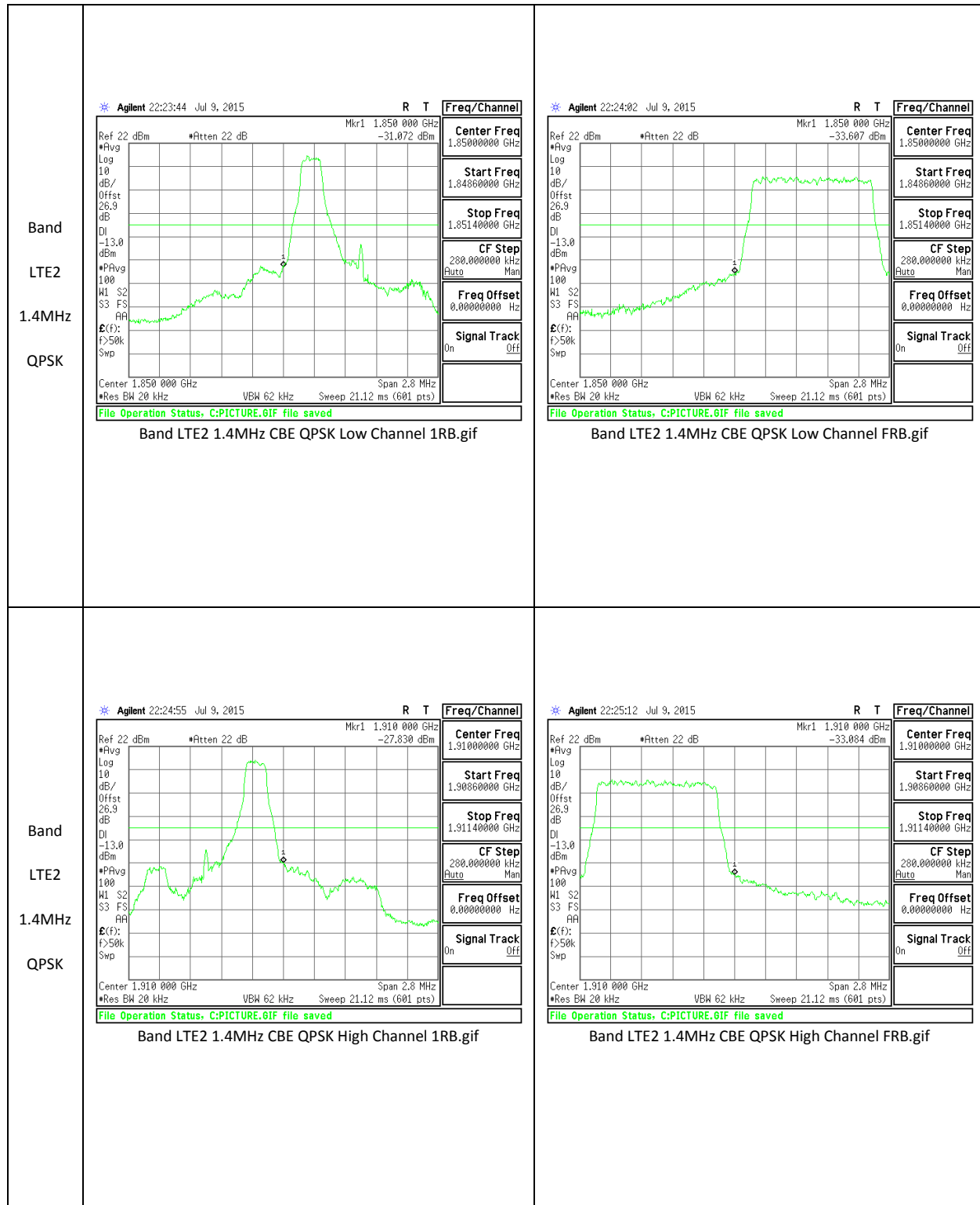




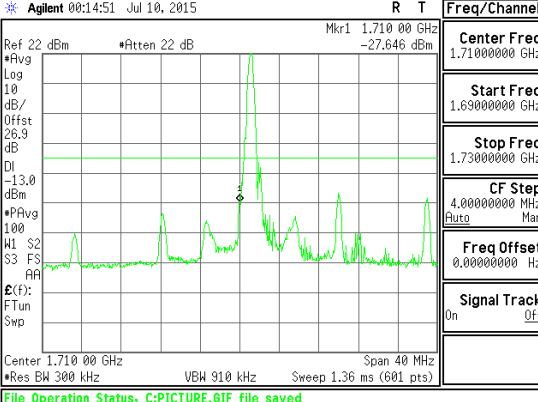
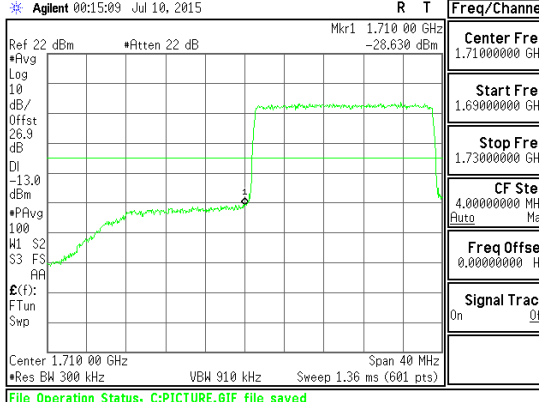
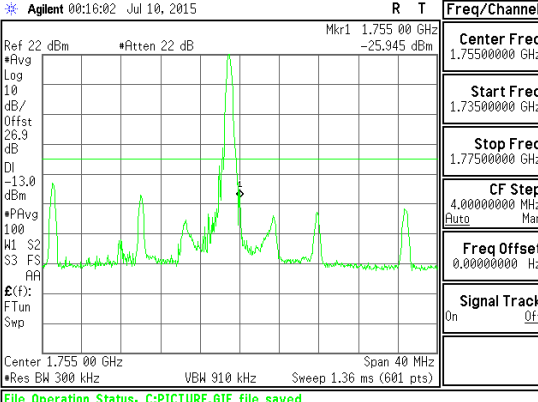
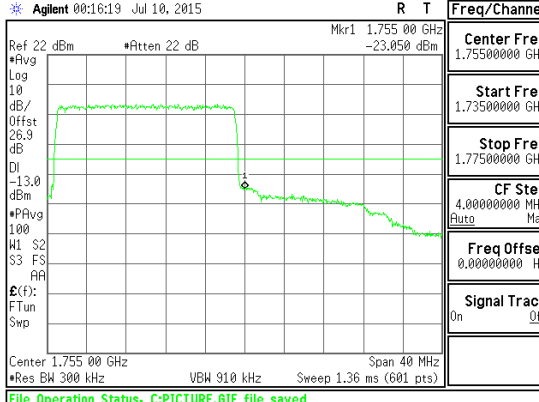


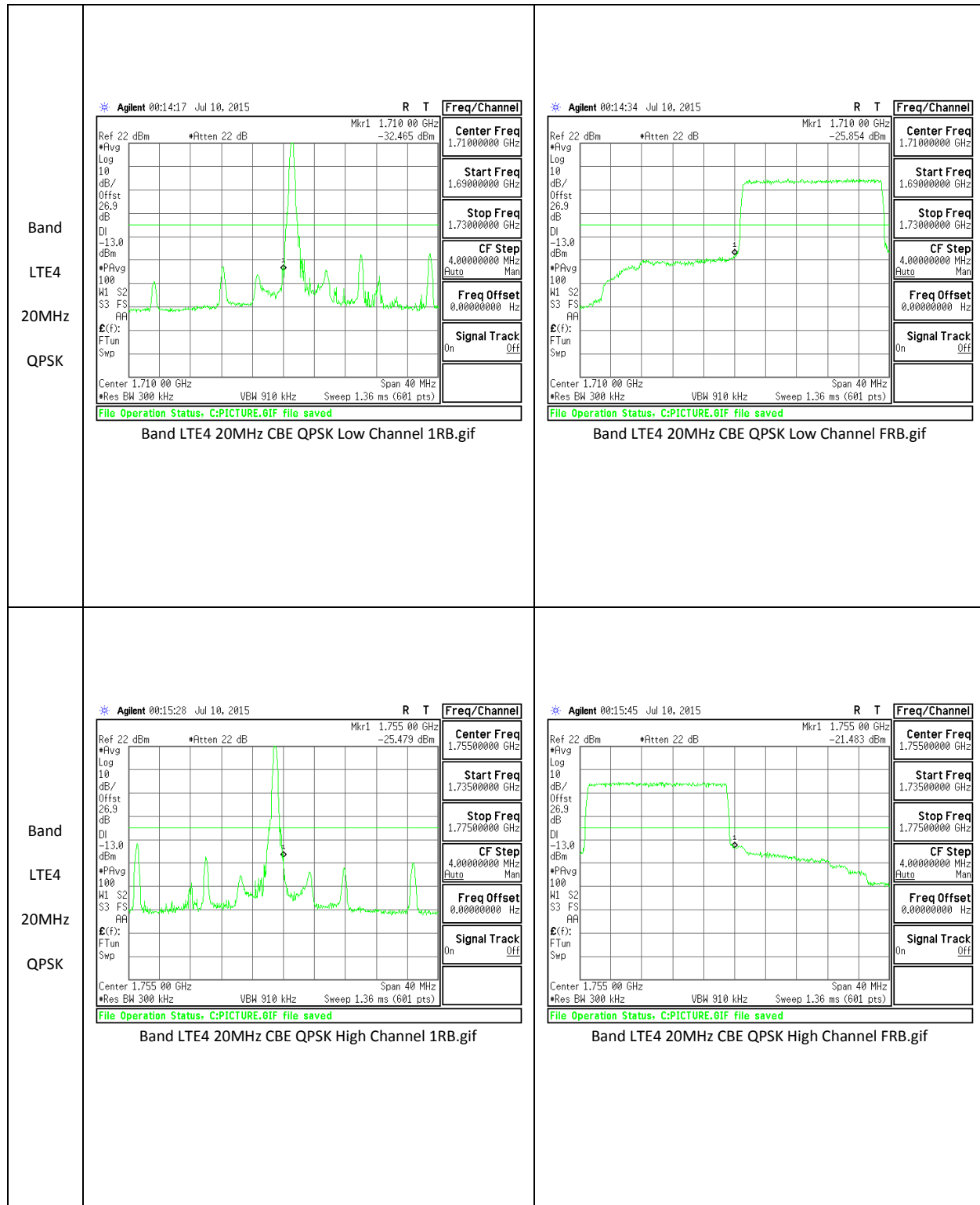


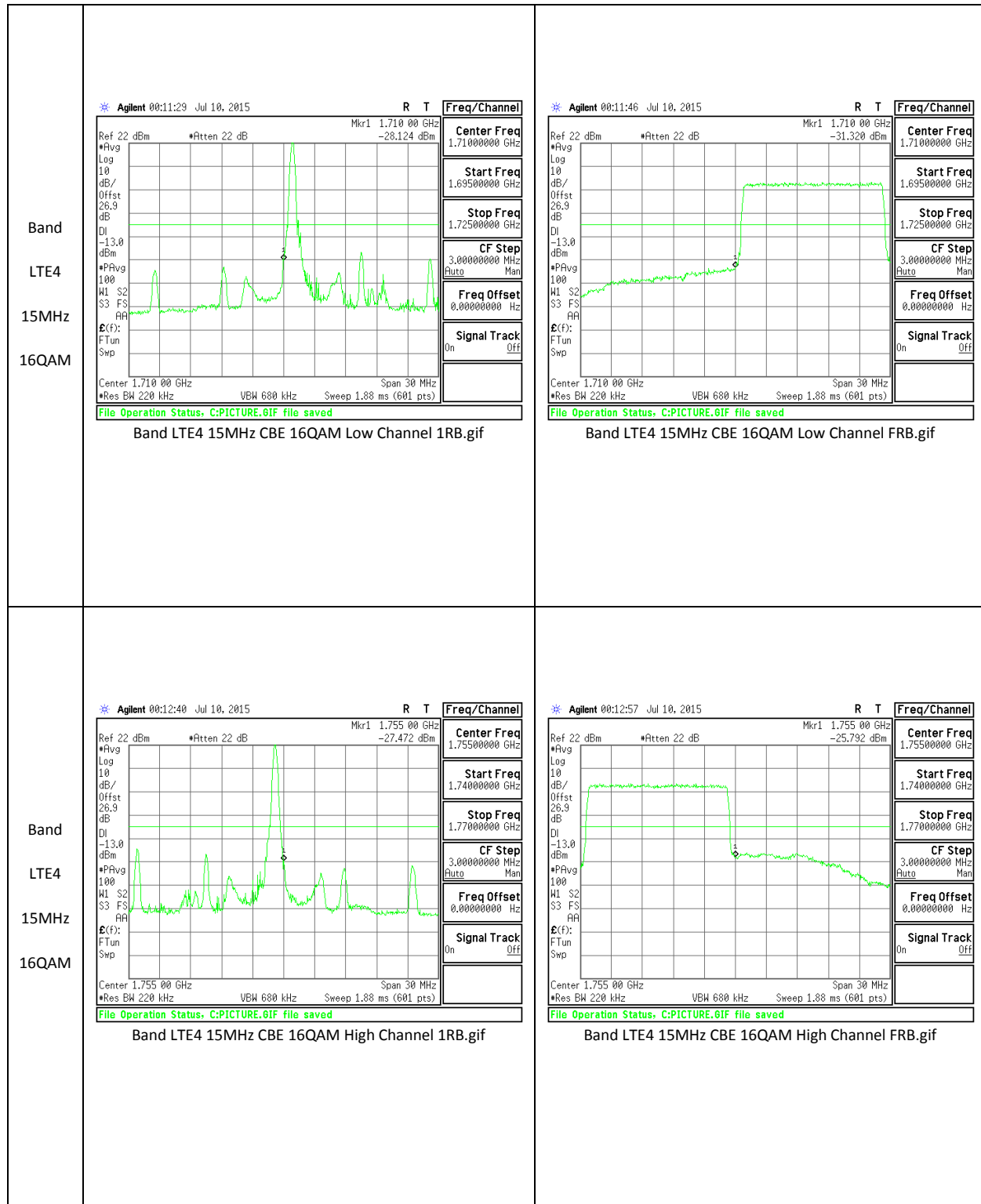


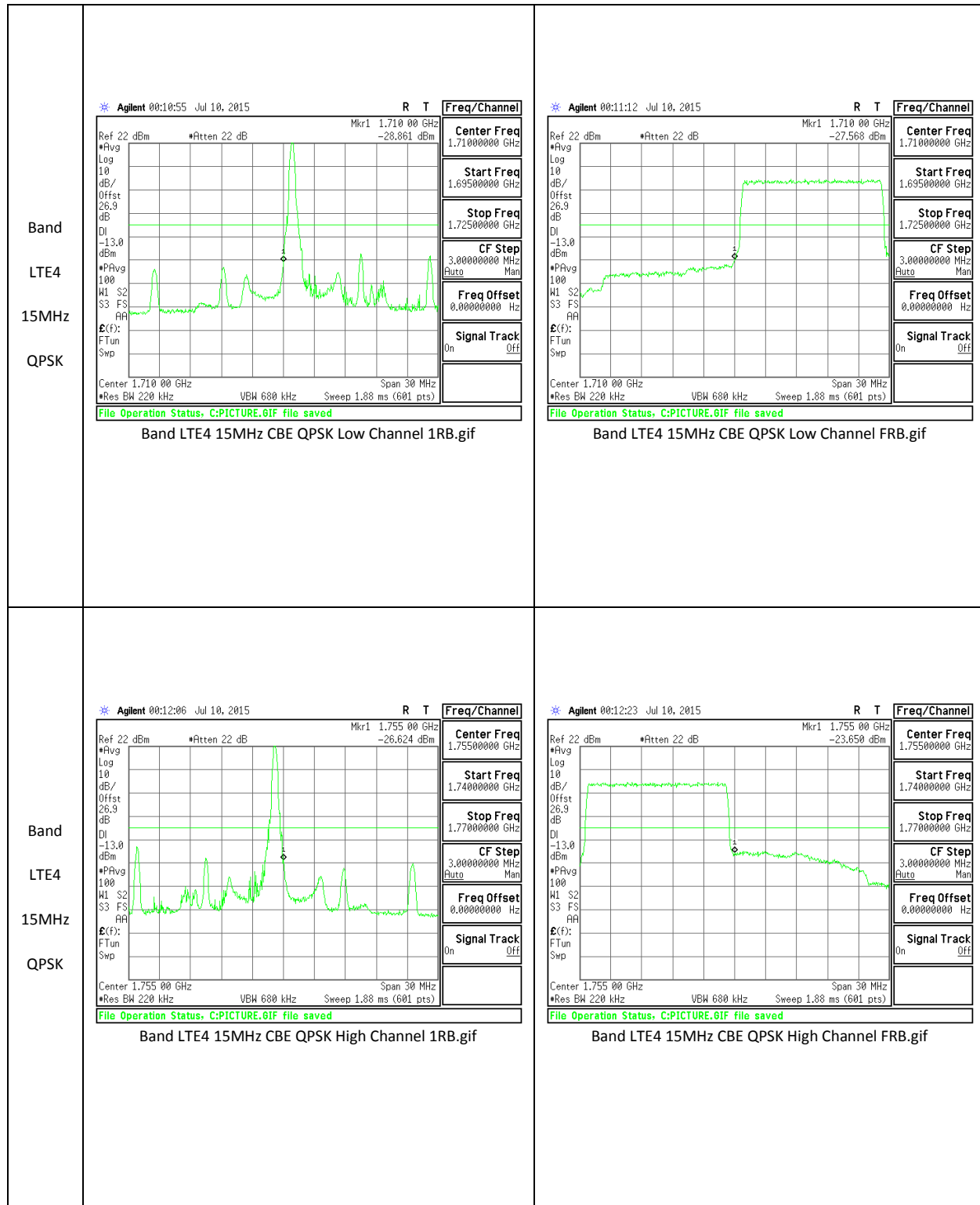


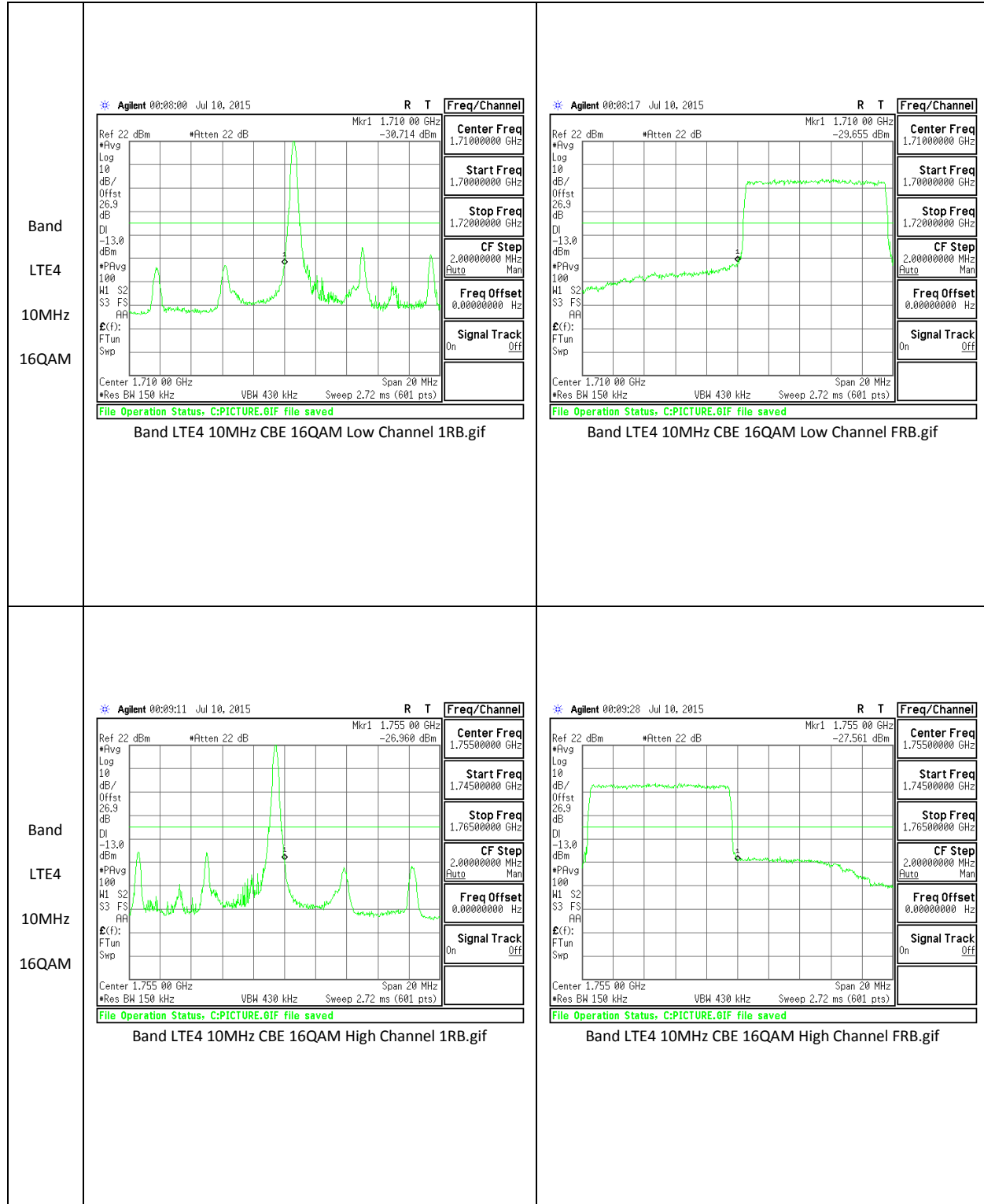
LTE Band 4

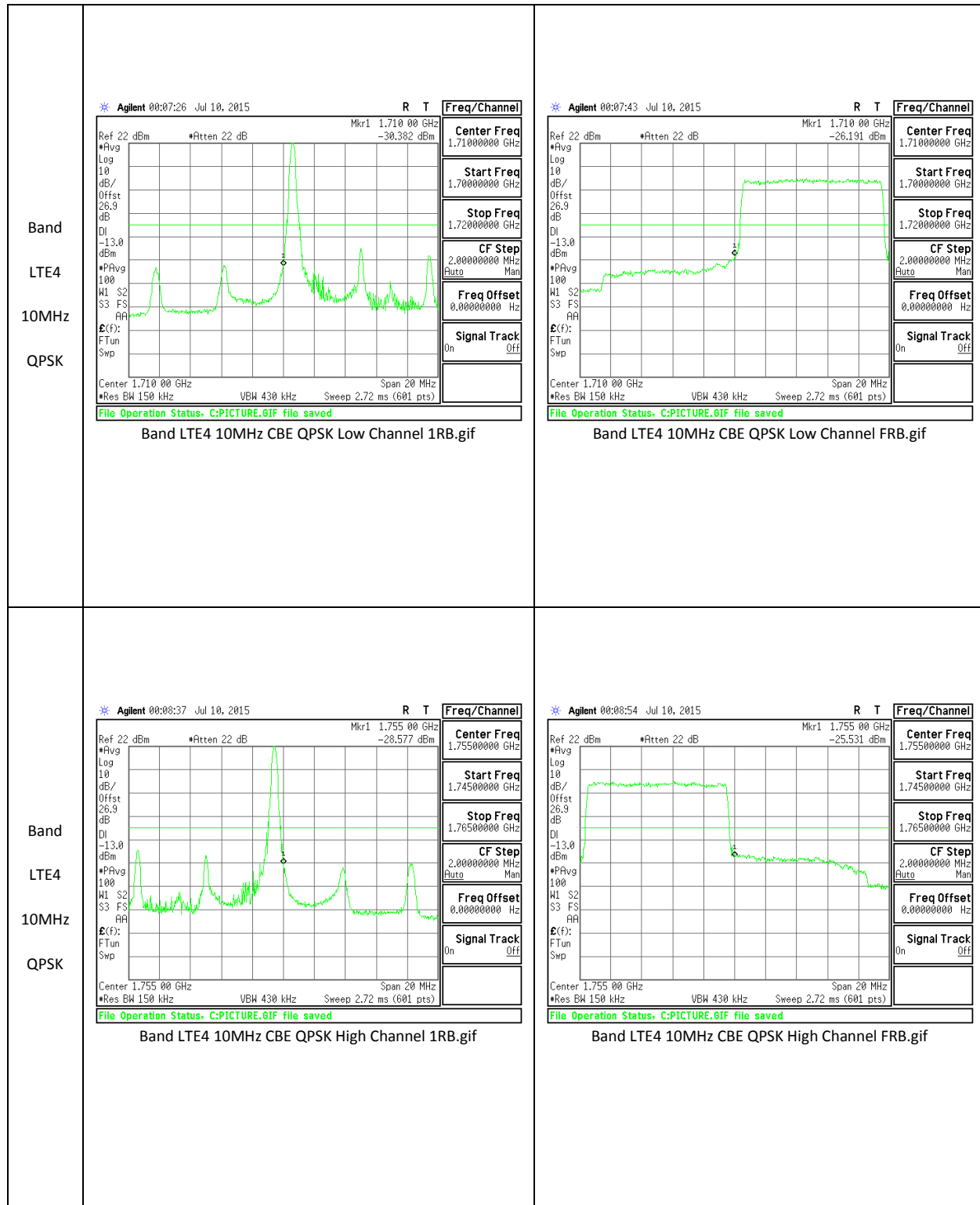
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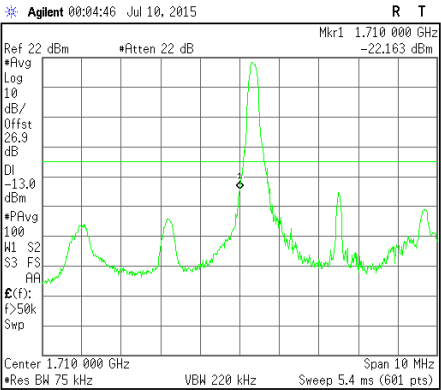
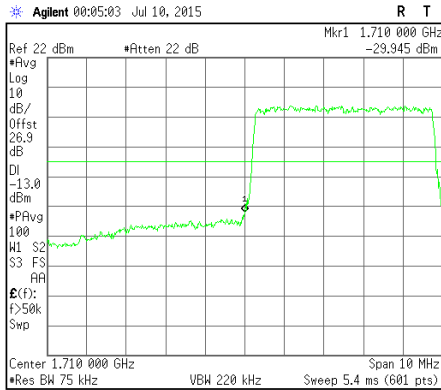
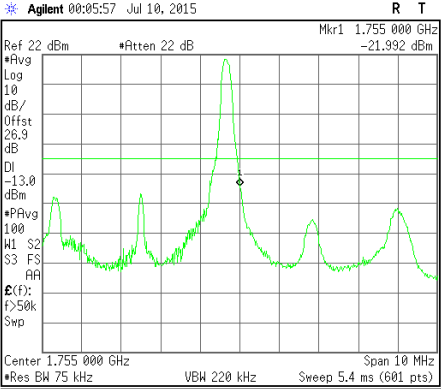
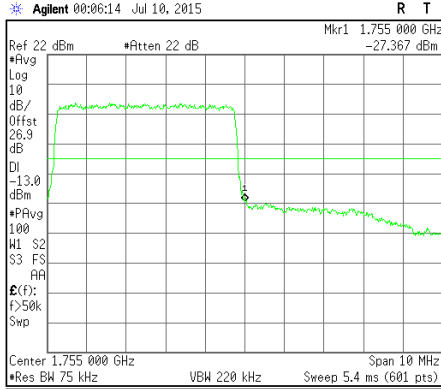


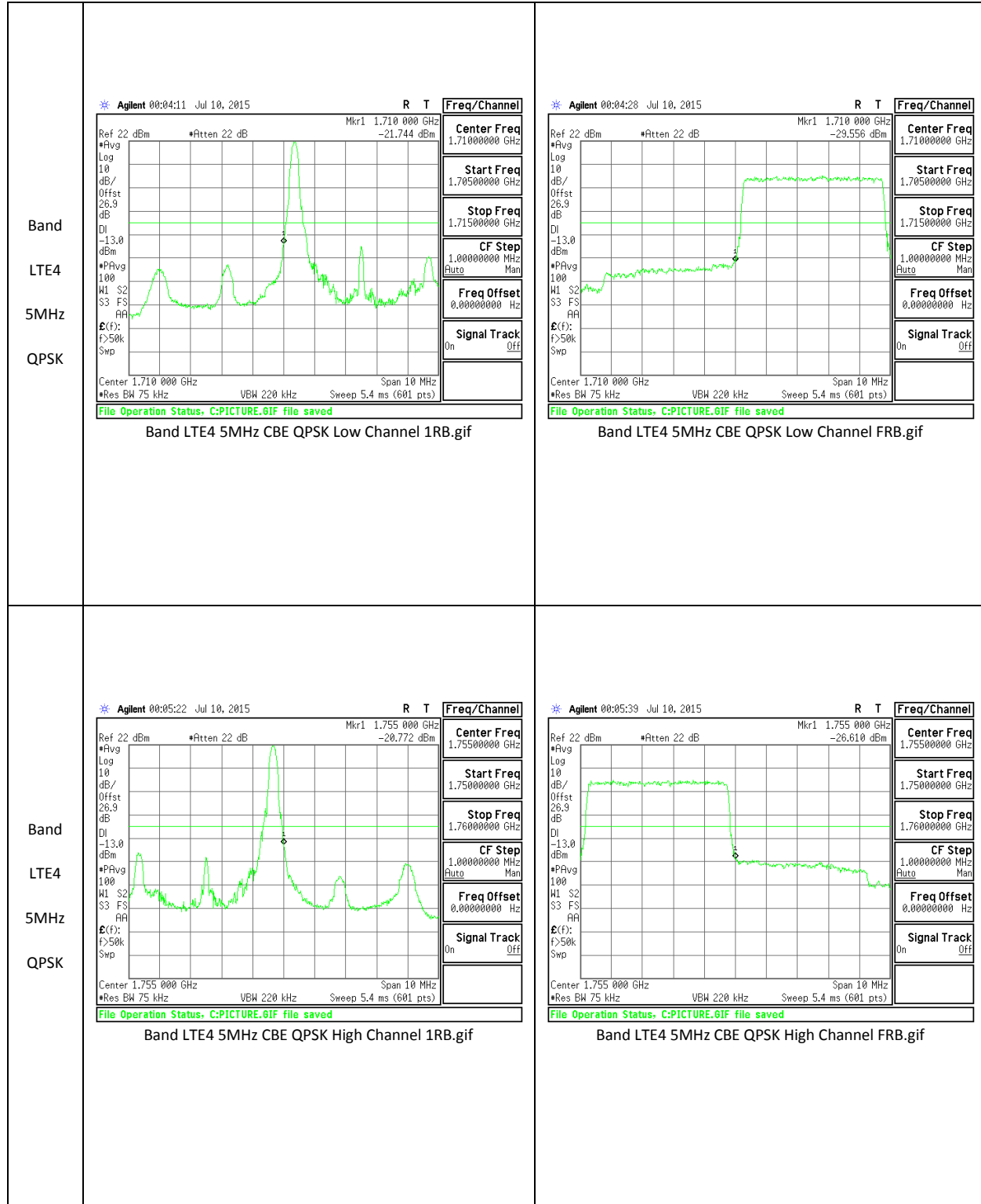


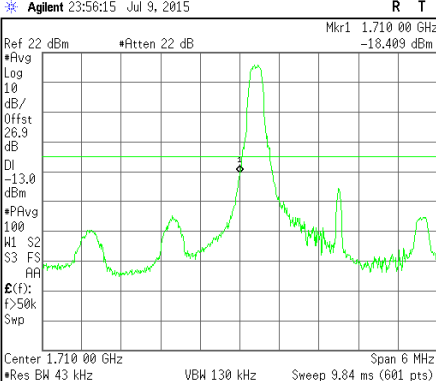
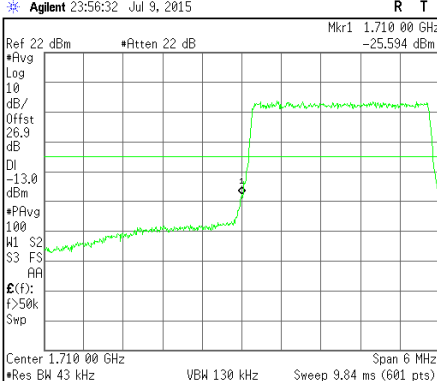
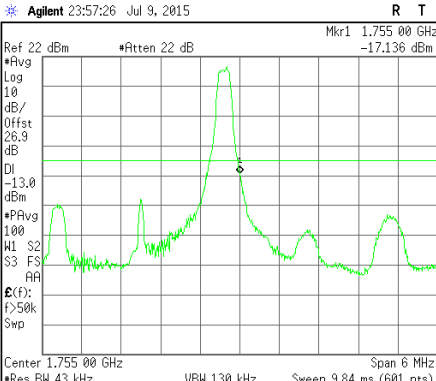
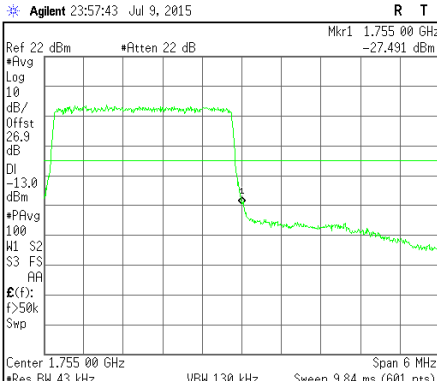


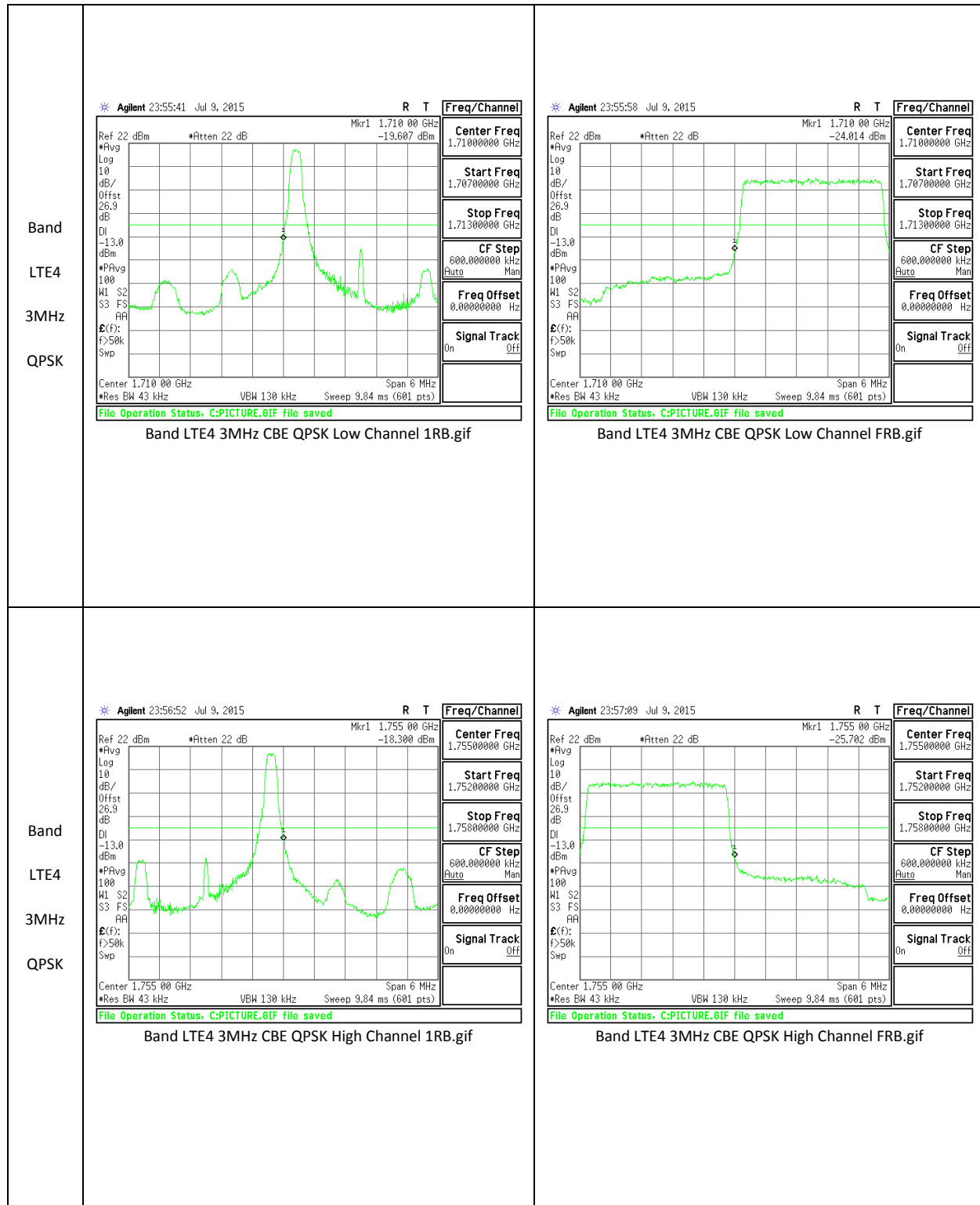


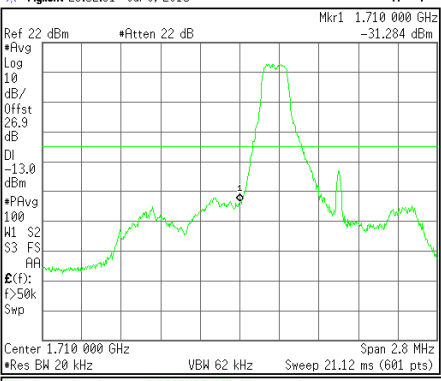
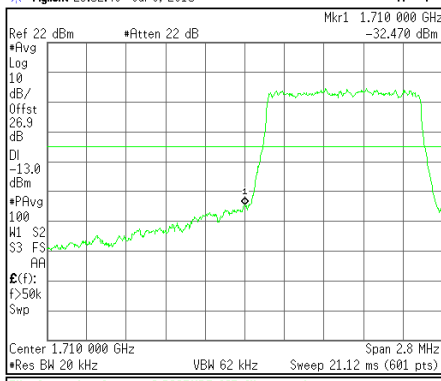
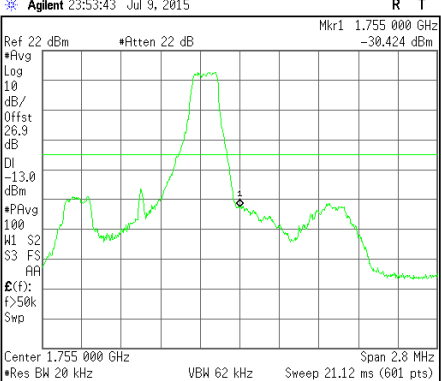
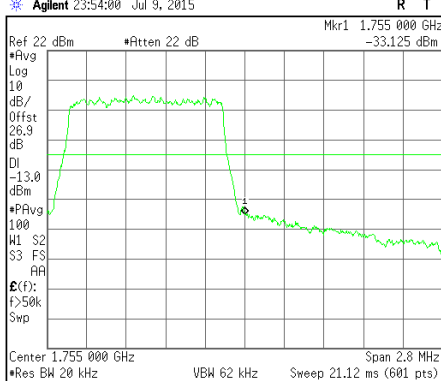


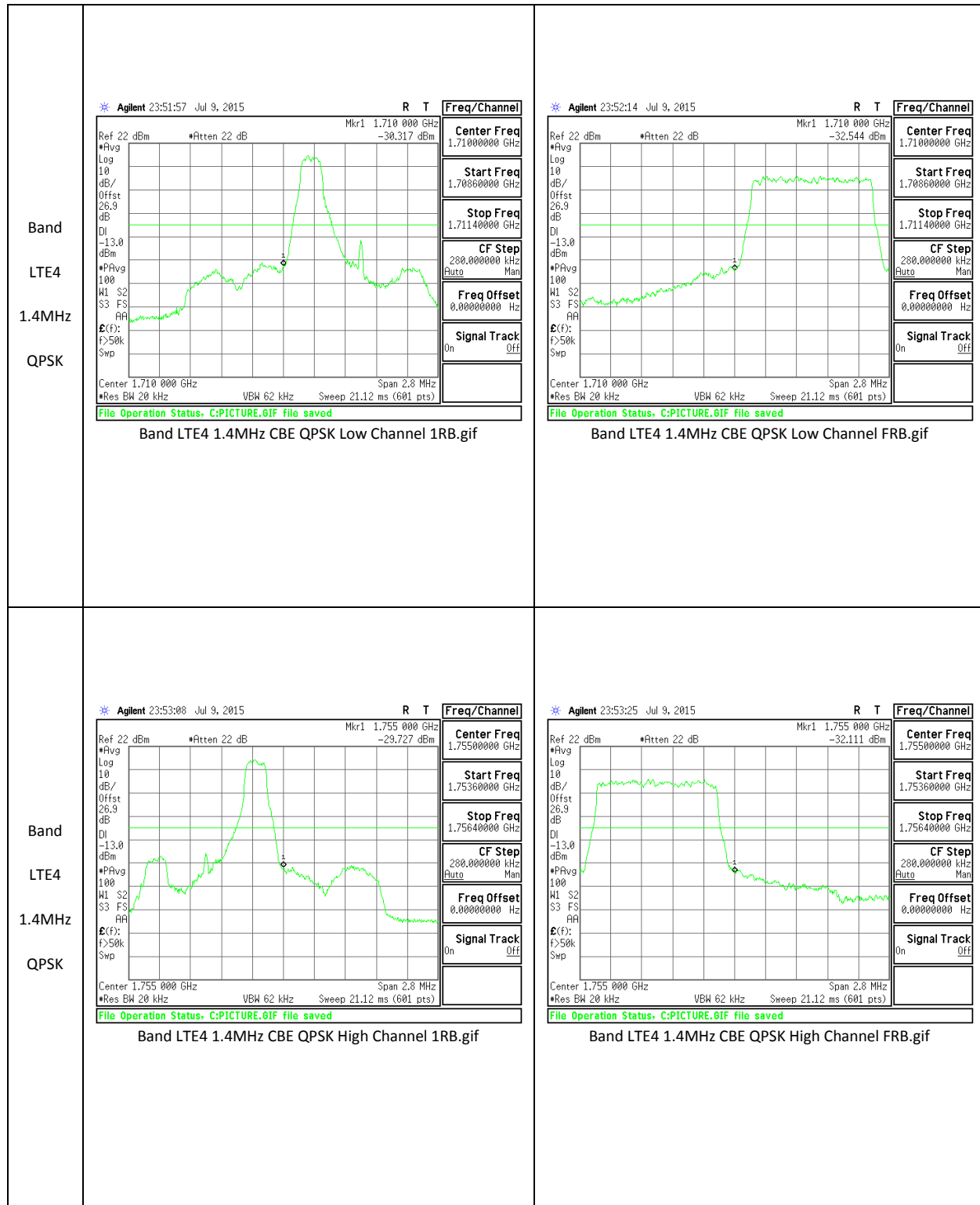
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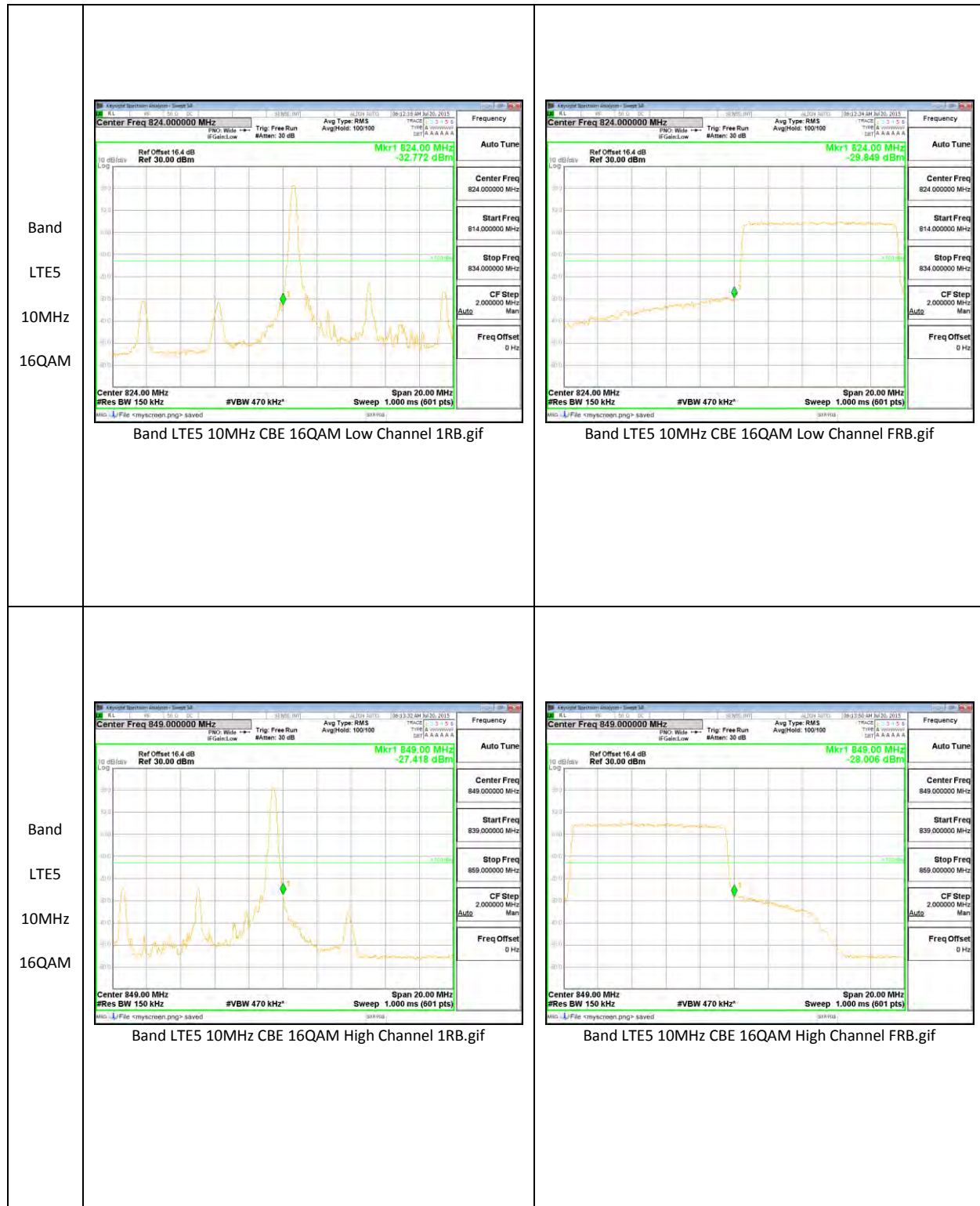
<p>Band LTE4 3MHz 16QAM</p>	 <p>Agilent 23:56:15 Jul 9, 2015</p> <p>Center Freq: 1.71000000 GHz Start Freq: 1.70700000 GHz Stop Freq: 1.71300000 GHz CF Step: 600.000000 kHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE4 3MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Agilent 23:56:32 Jul 9, 2015</p> <p>Center Freq: 1.71000000 GHz Start Freq: 1.70700000 GHz Stop Freq: 1.71300000 GHz CF Step: 600.000000 kHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE4 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE4 3MHz 16QAM</p>	 <p>Agilent 23:57:26 Jul 9, 2015</p> <p>Center Freq: 1.75500000 GHz Start Freq: 1.75200000 GHz Stop Freq: 1.75800000 GHz CF Step: 600.000000 kHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE4 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Agilent 23:57:43 Jul 9, 2015</p> <p>Center Freq: 1.75500000 GHz Start Freq: 1.75200000 GHz Stop Freq: 1.75800000 GHz CF Step: 600.000000 kHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE4 3MHz CBE 16QAM High Channel FRB.gif</p>

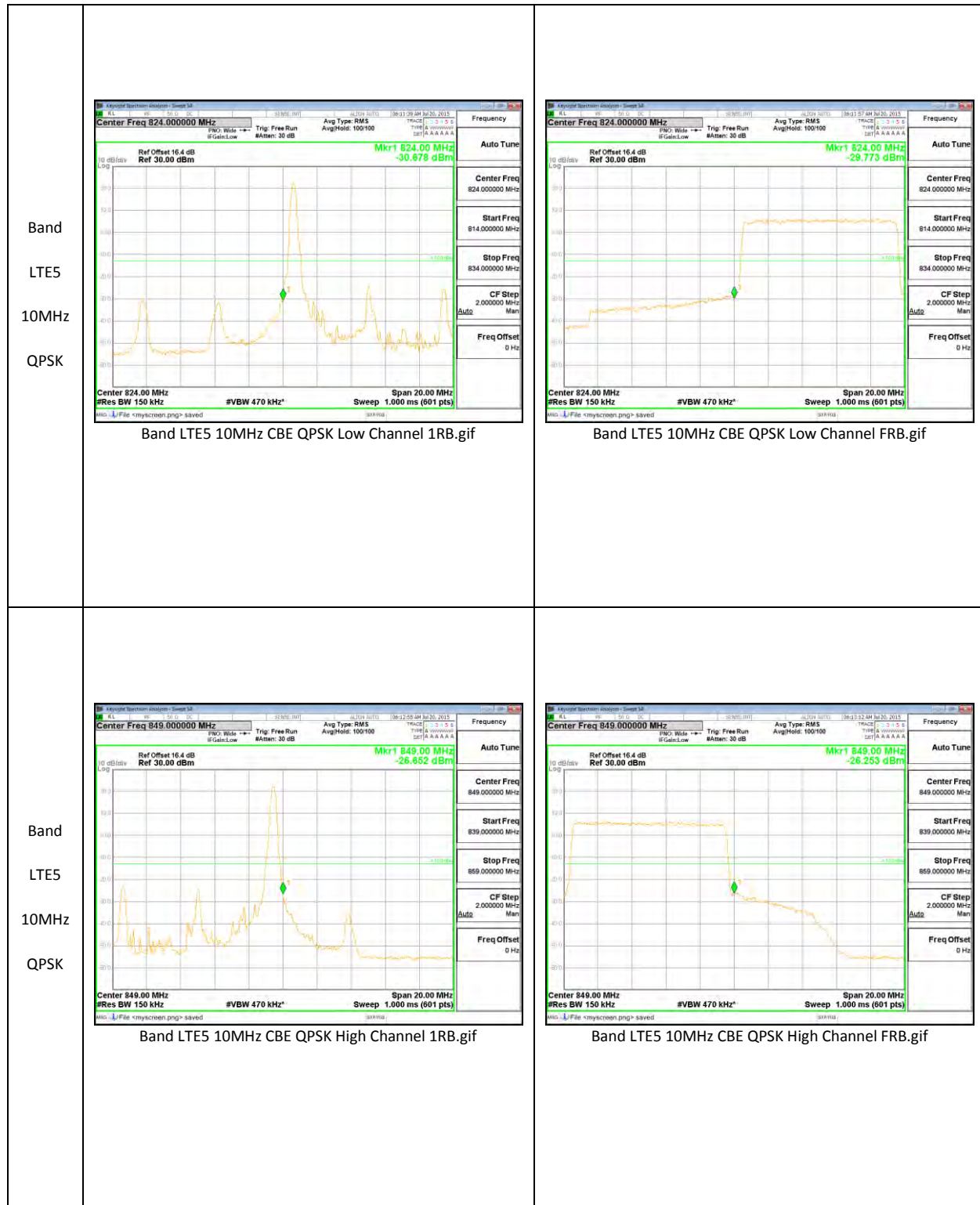


<p>Band LTE4 1.4MHz 16QAM</p>	<p>Agilent 23:52:31 Jul 9, 2015</p>  <p>Center Freq 1.71000000 GHz</p> <p>Start Freq 1.70860000 GHz</p> <p>Stop Freq 1.71140000 GHz</p> <p>CF Step 200.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE4 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Agilent 23:52:48 Jul 9, 2015</p>  <p>Center Freq 1.71000000 GHz</p> <p>Start Freq 1.70860000 GHz</p> <p>Stop Freq 1.71140000 GHz</p> <p>CF Step 200.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE4 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE4 1.4MHz 16QAM</p>	<p>Agilent 23:53:43 Jul 9, 2015</p>  <p>Center Freq 1.75500000 GHz</p> <p>Start Freq 1.75360000 GHz</p> <p>Stop Freq 1.75640000 GHz</p> <p>CF Step 200.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE4 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	<p>Agilent 23:54:00 Jul 9, 2015</p>  <p>Center Freq 1.75500000 GHz</p> <p>Start Freq 1.75360000 GHz</p> <p>Stop Freq 1.75640000 GHz</p> <p>CF Step 200.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE4 1.4MHz CBE 16QAM High Channel FRB.gif</p>

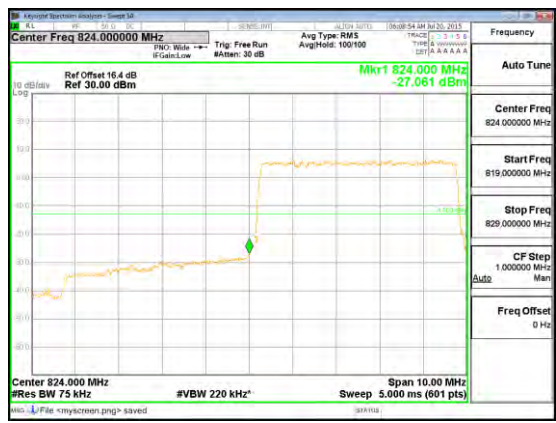
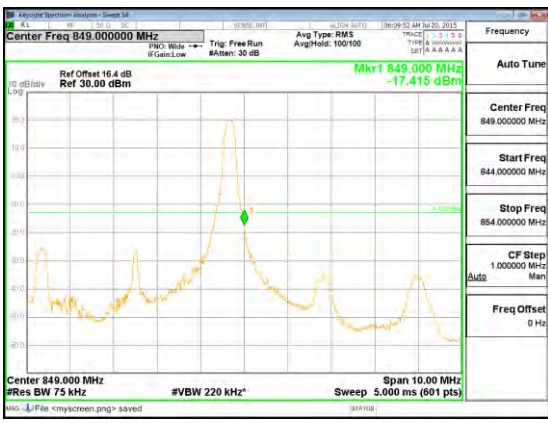
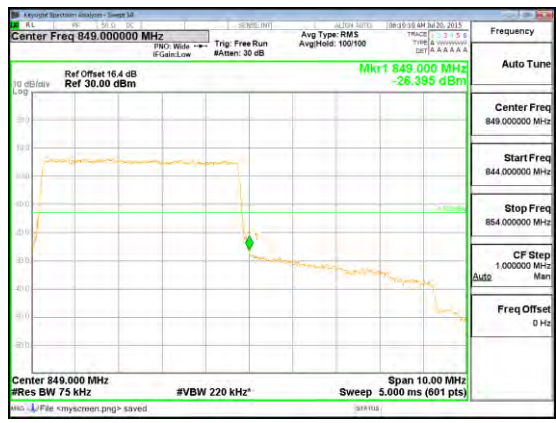


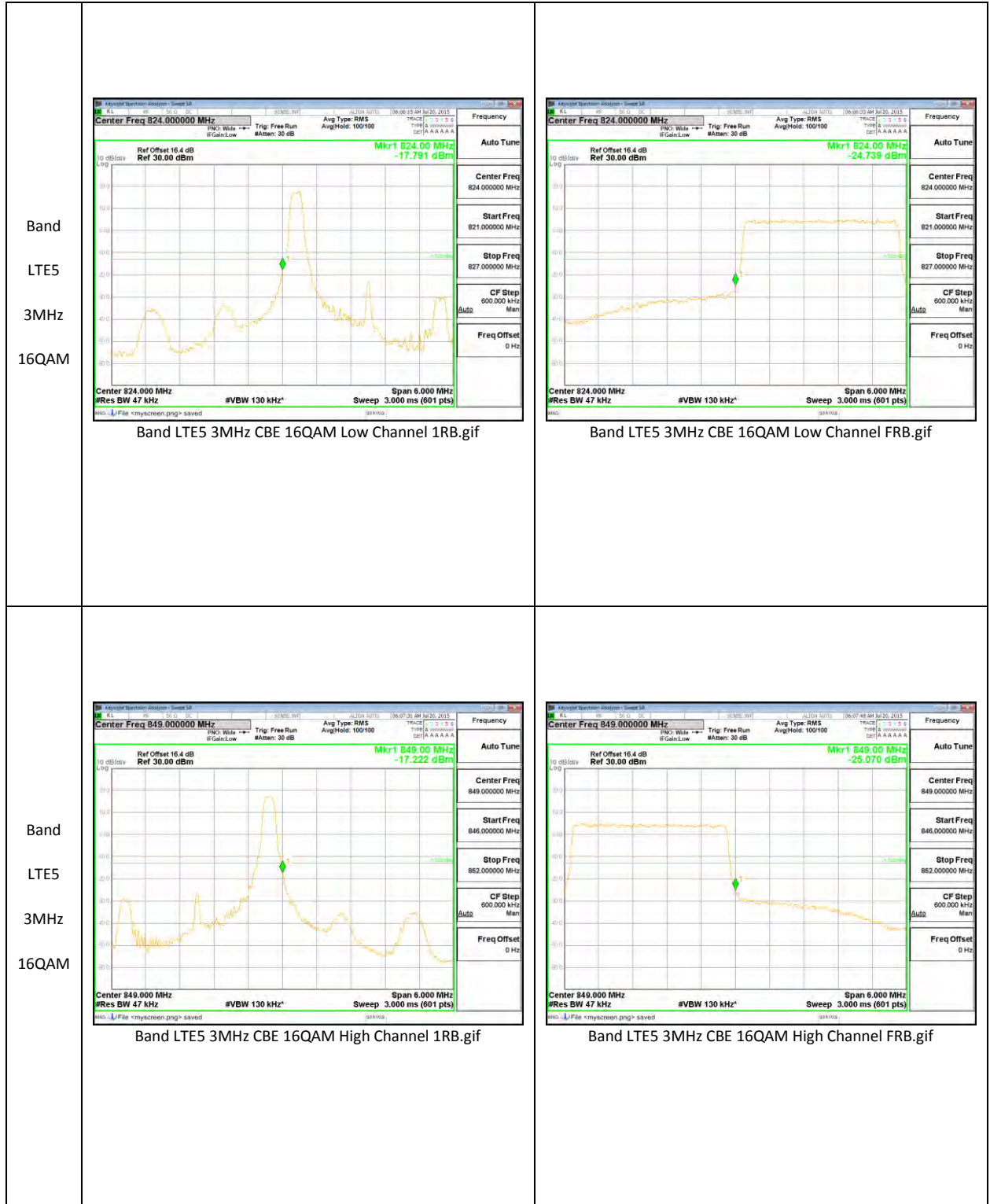
LTE Band 5

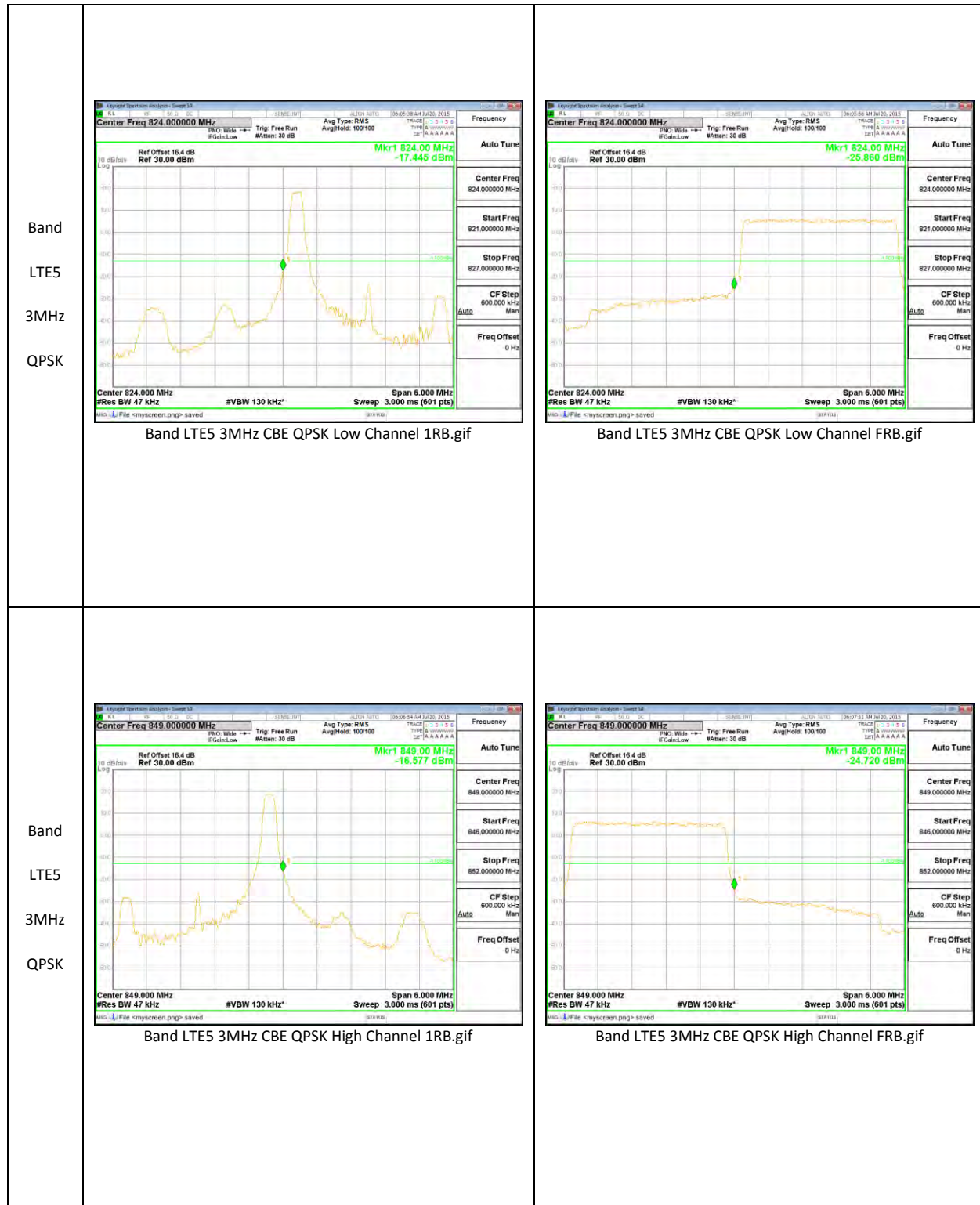



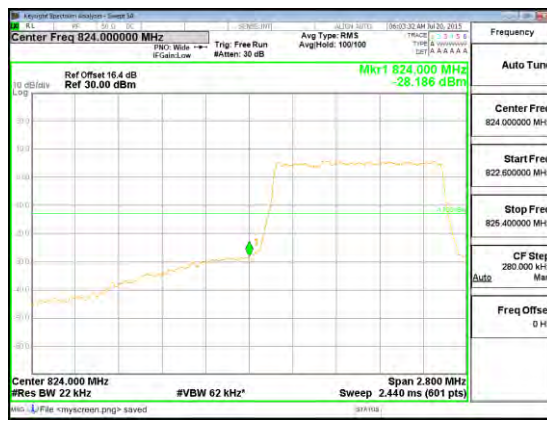
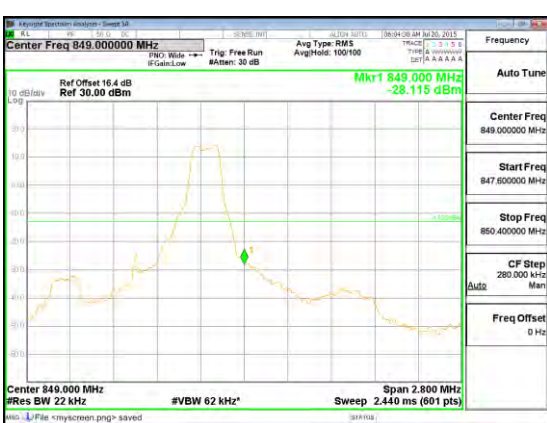



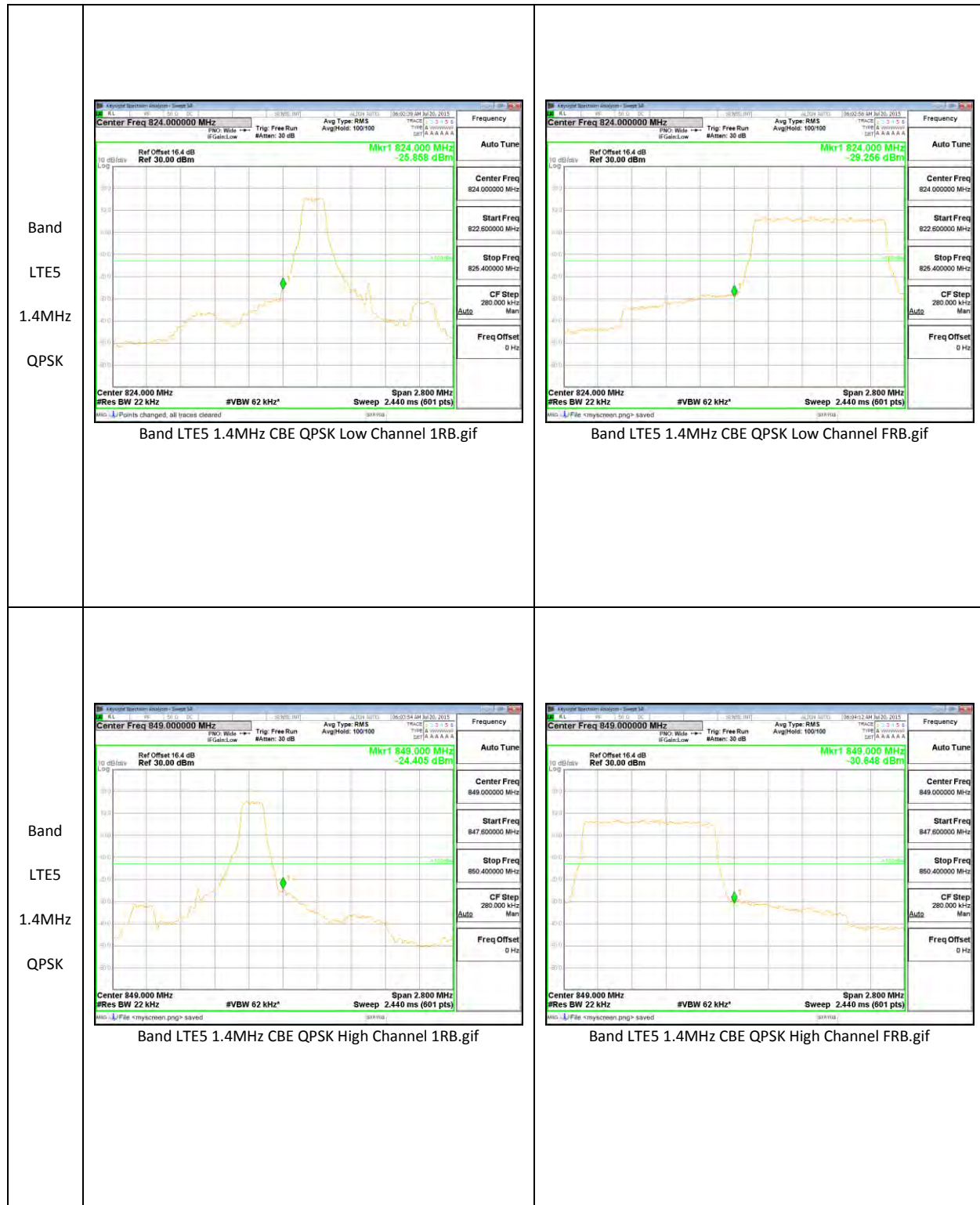


<p>Band LTE5 5MHz QPSK</p>	 <p>Center Freq 824.000000 MHz Ref Offset 16.4 dB Ref 30.00 dBm Mkr1 824.000 MHz -20.614 dBm</p> <p>Center Freq 824.000000 MHz Start Freq 819.000000 MHz Stop Freq 829.000000 MHz CF Step 1.000000 MHz Freq Offset 0 Hz</p> <p>Center 824.000 MHz #VBW 220 kHz* Span 10.00 MHz #Res BW 75 kHz Sweep 5.000 ms (601 pts)</p> <p>Band LTE5 5MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Center Freq 824.000000 MHz Ref Offset 16.4 dB Ref 30.00 dBm Mkr1 824.000 MHz -27.061 dBm</p> <p>Center Freq 824.000000 MHz Start Freq 819.000000 MHz Stop Freq 829.000000 MHz CF Step 1.000000 MHz Freq Offset 0 Hz</p> <p>Center 824.000 MHz #VBW 220 kHz* Span 10.00 MHz #Res BW 75 kHz Sweep 5.000 ms (601 pts)</p> <p>Band LTE5 5MHz CBE QPSK Low Channel FRB.gif</p>
<p>Band LTE5 5MHz QPSK</p>	 <p>Center Freq 849.000000 MHz Ref Offset 16.4 dB Ref 30.00 dBm Mkr1 849.000 MHz -17.415 dBm</p> <p>Center Freq 849.000000 MHz Start Freq 844.000000 MHz Stop Freq 854.000000 MHz CF Step 1.000000 MHz Freq Offset 0 Hz</p> <p>Center 849.000 MHz #VBW 220 kHz* Span 10.00 MHz #Res BW 75 kHz Sweep 5.000 ms (601 pts)</p> <p>Band LTE5 5MHz CBE QPSK High Channel 1RB.gif</p>	 <p>Center Freq 849.000000 MHz Ref Offset 16.4 dB Ref 30.00 dBm Mkr1 849.000 MHz -26.395 dBm</p> <p>Center Freq 849.000000 MHz Start Freq 844.000000 MHz Stop Freq 854.000000 MHz CF Step 1.000000 MHz Freq Offset 0 Hz</p> <p>Center 849.000 MHz #VBW 220 kHz* Span 10.00 MHz #Res BW 75 kHz Sweep 5.000 ms (601 pts)</p> <p>Band LTE5 5MHz CBE QPSK High Channel FRB.gif</p>

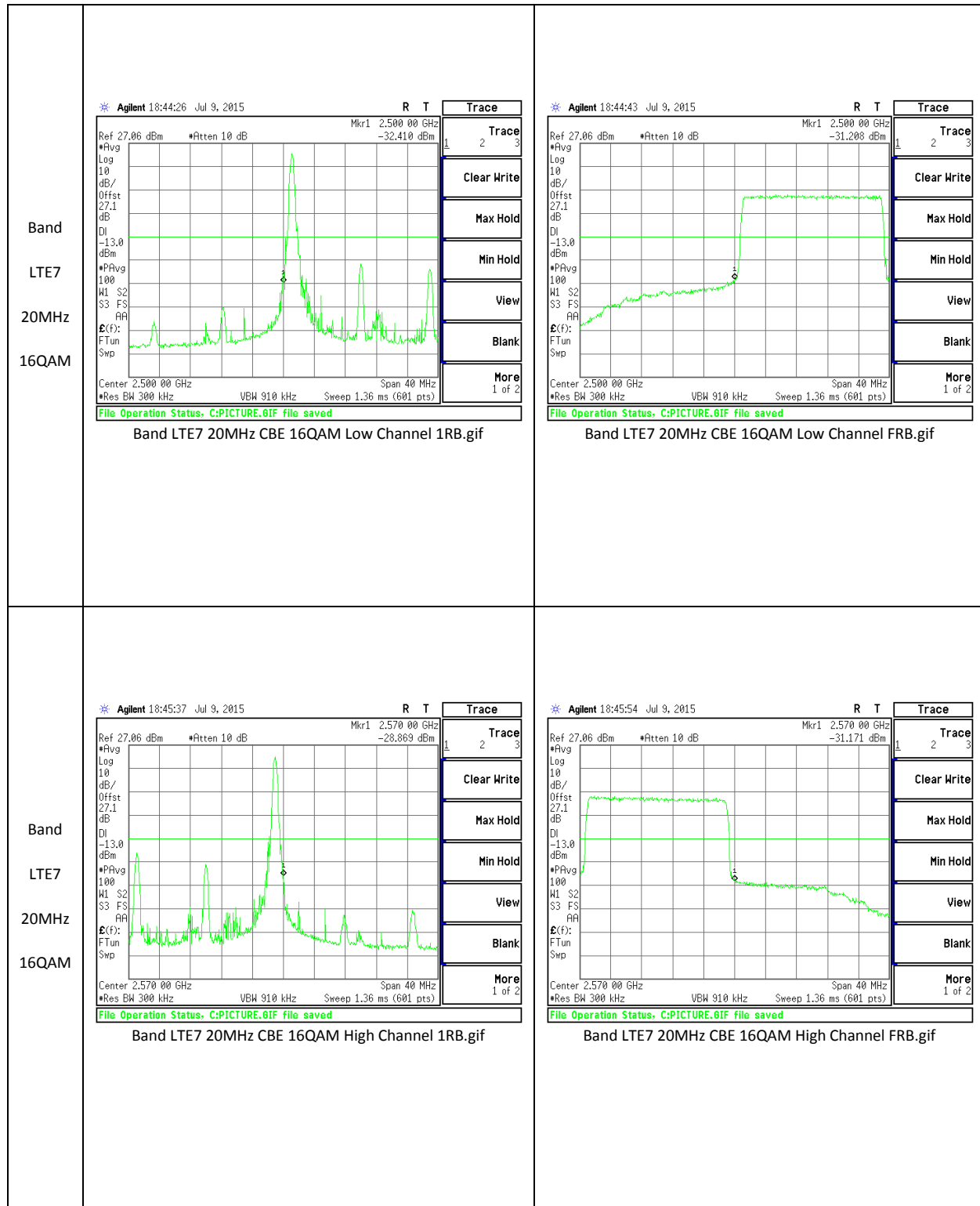


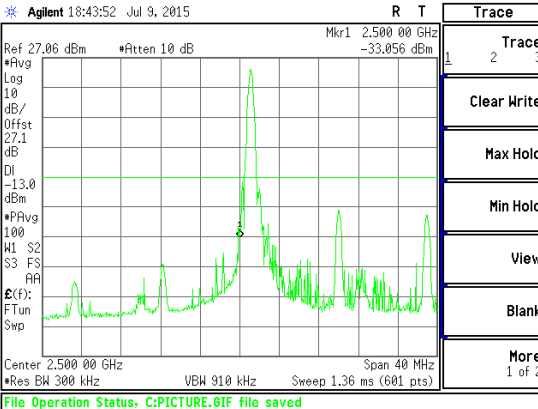
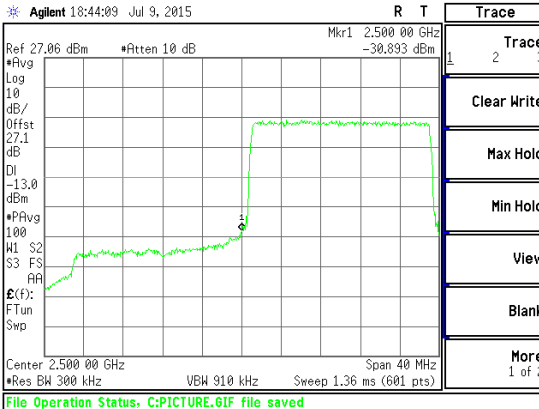
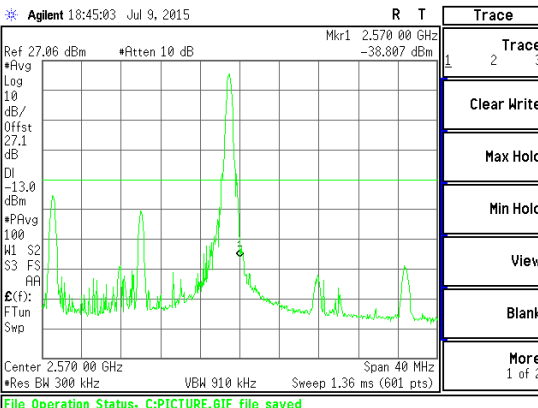
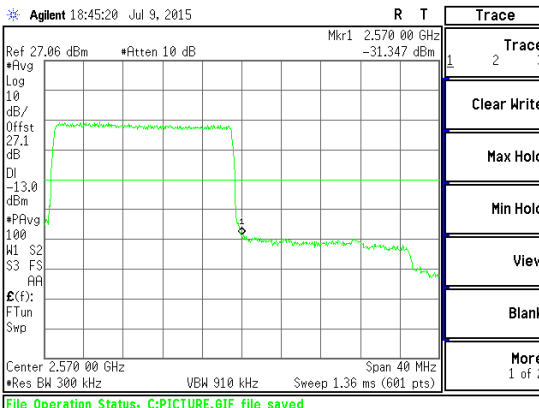


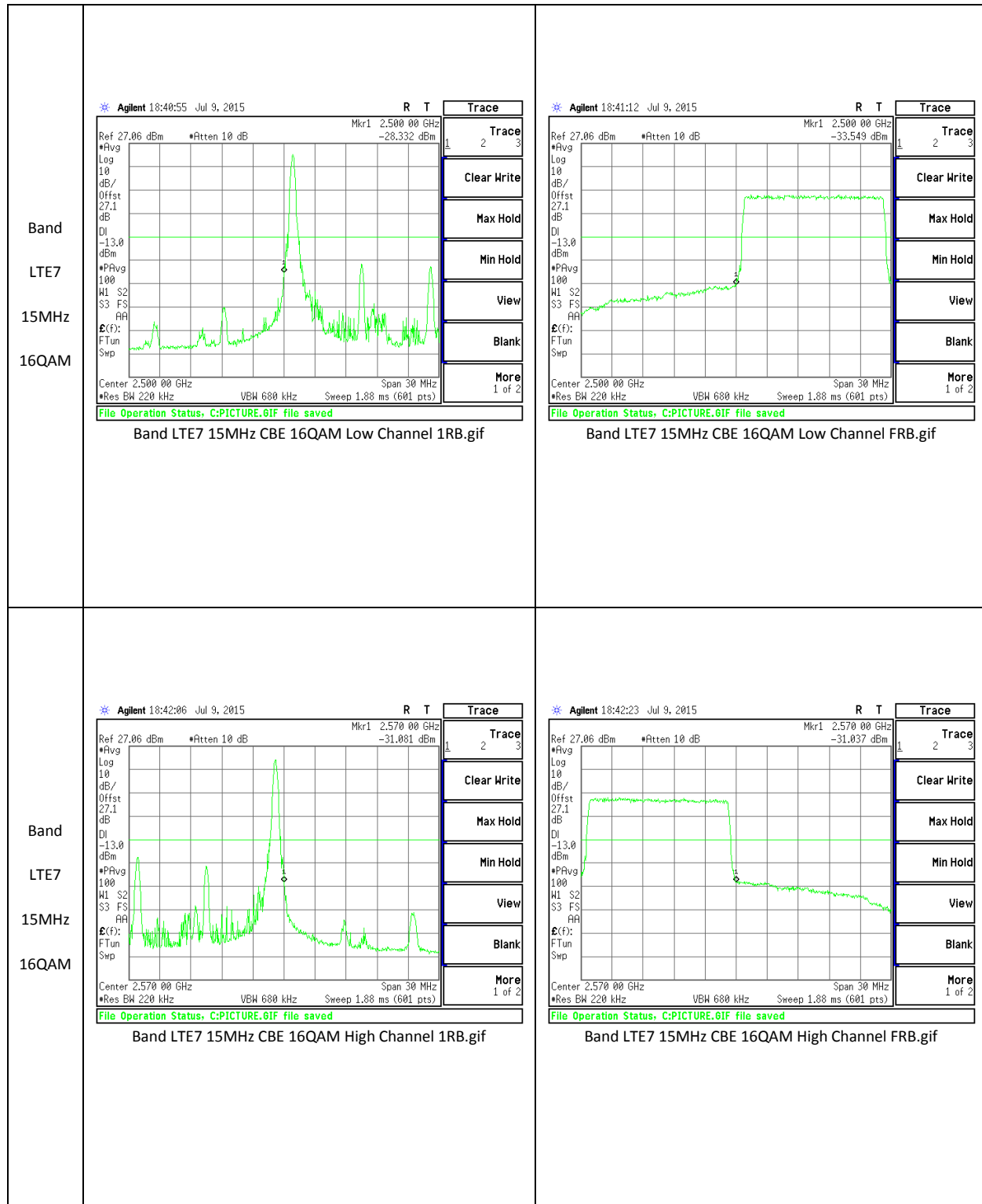
<p>Band LTE5 1.4MHz 16QAM</p>	 <p>Band LTE5 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE5 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE5 1.4MHz 16QAM</p>	 <p>Band LTE5 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE5 1.4MHz CBE 16QAM High Channel FRB.gif</p>

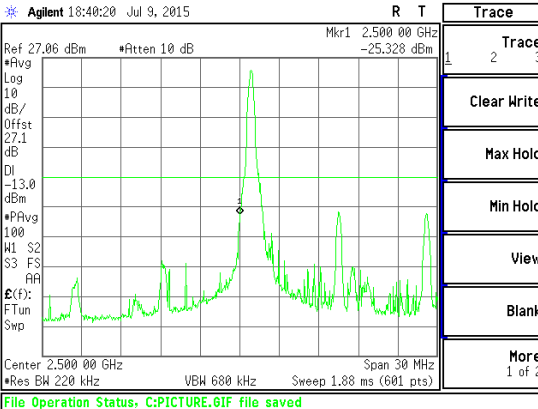
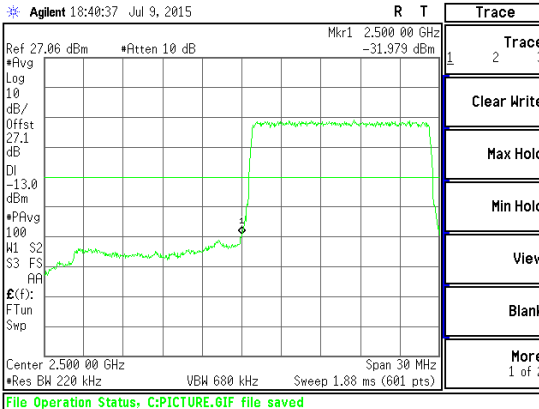
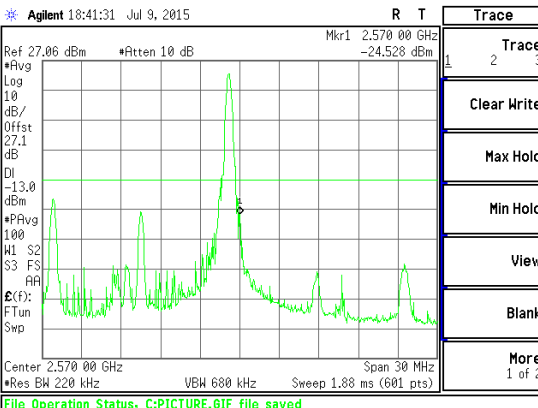
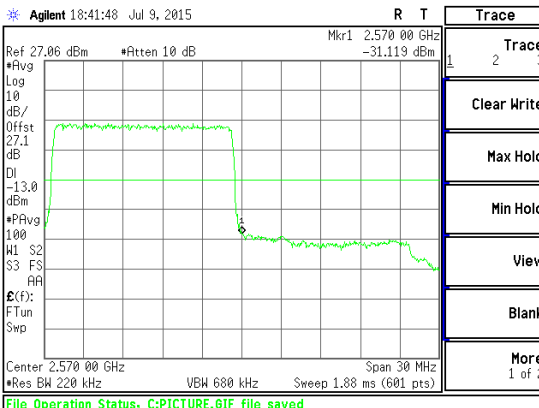


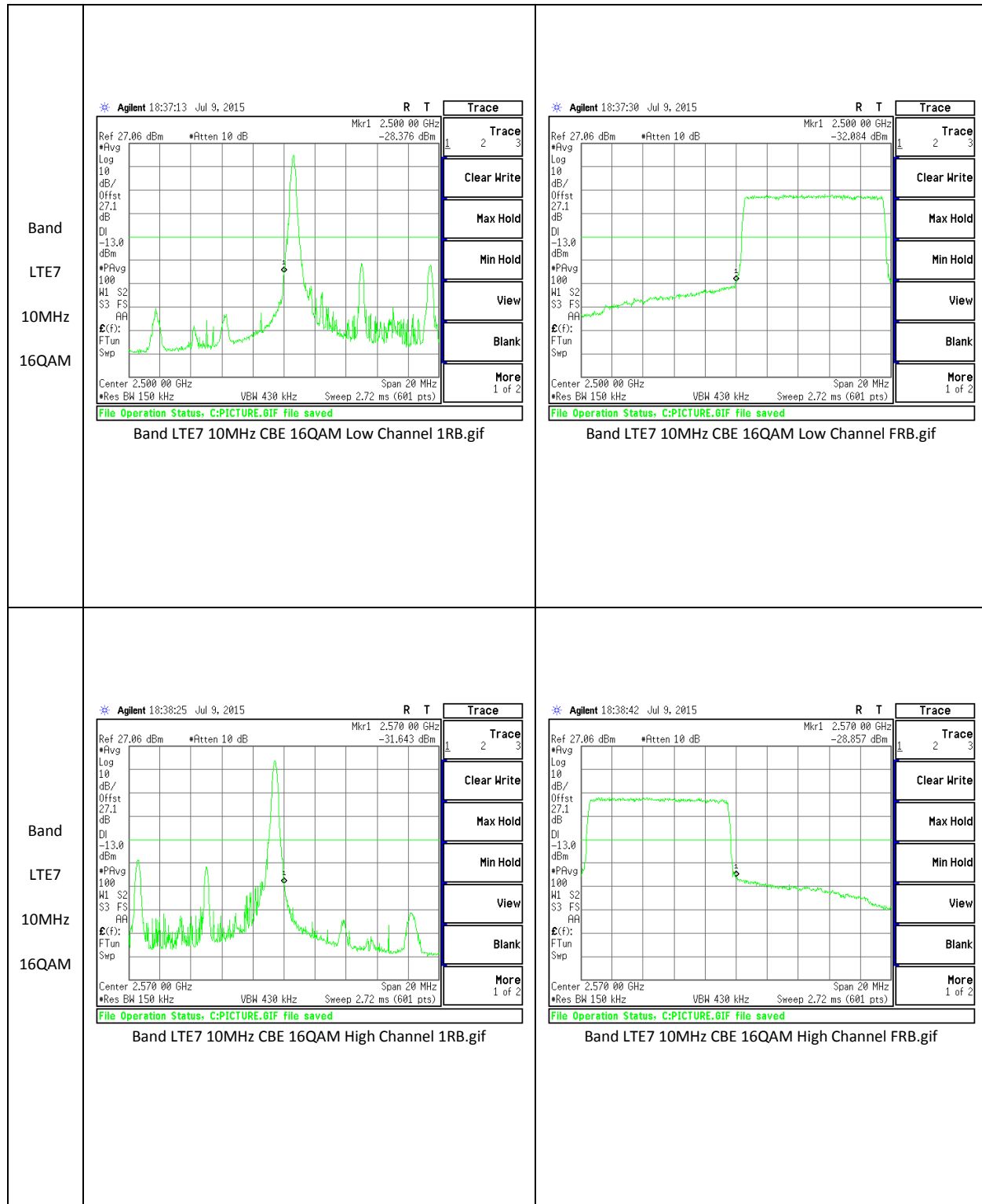
LTE Band 7

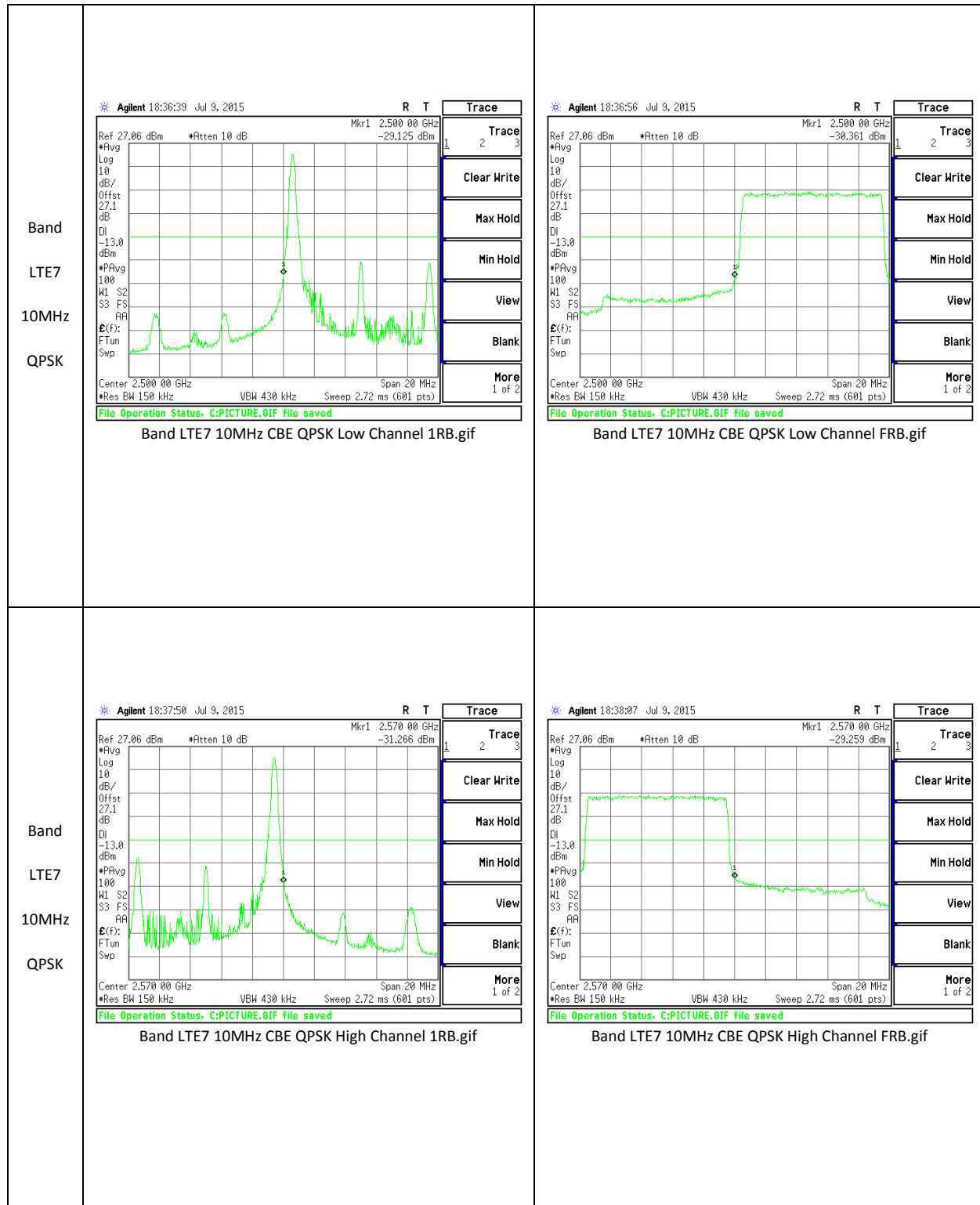


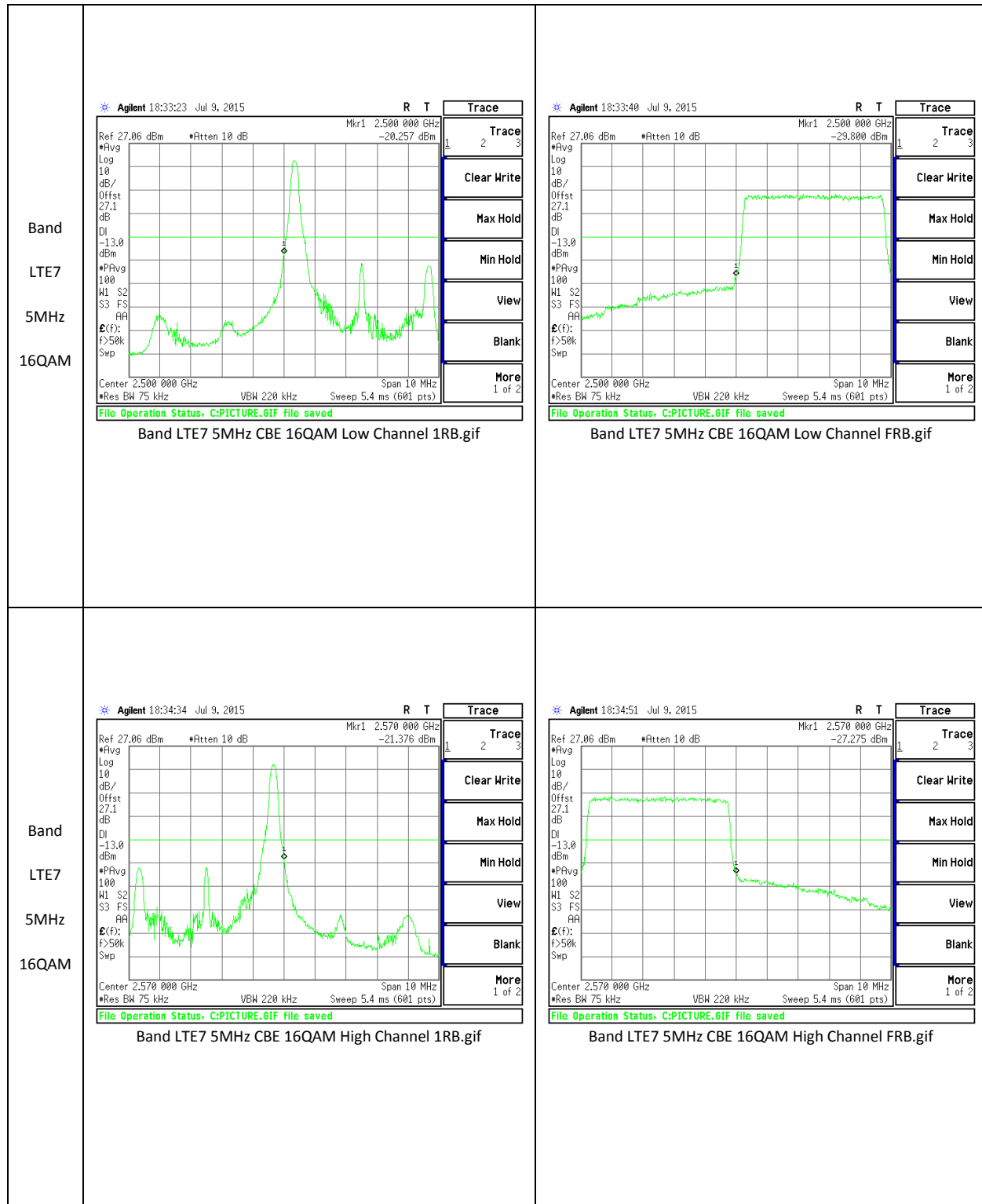
<p>Band LTE7 20MHz QPSK</p>	 <p>Agilent 18:43:52 Jul 9, 2015</p> <p>Ref 27.06 dBm #Atten 10 dB Mkr1 2.500 00 GHz -33.056 dBm</p> <p>Center 2.500 00 GHz Span 40 MHz #Res BW 300 kHz VBW 910 kHz Sweep 1.36 ms (601 pts)</p> <p>File Operation Status: C:PICTURE.GIF file saved</p> <p>Band LTE7 20MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Agilent 18:44:09 Jul 9, 2015</p> <p>Ref 27.06 dBm #Atten 10 dB Mkr1 2.500 00 GHz -30.893 dBm</p> <p>Center 2.500 00 GHz Span 40 MHz #Res BW 300 kHz VBW 910 kHz Sweep 1.36 ms (601 pts)</p> <p>File Operation Status: C:PICTURE.GIF file saved</p> <p>Band LTE7 20MHz CBE QPSK Low Channel FRB.gif</p>
<p>Band LTE7 20MHz QPSK</p>	 <p>Agilent 18:45:03 Jul 9, 2015</p> <p>Ref 27.06 dBm #Atten 10 dB Mkr1 2.570 00 GHz -38.807 dBm</p> <p>Center 2.570 00 GHz Span 40 MHz #Res BW 300 kHz VBW 910 kHz Sweep 1.36 ms (601 pts)</p> <p>File Operation Status: C:PICTURE.GIF file saved</p> <p>Band LTE7 20MHz CBE QPSK High Channel 1RB.gif</p>	 <p>Agilent 18:45:20 Jul 9, 2015</p> <p>Ref 27.06 dBm #Atten 10 dB Mkr1 2.570 00 GHz -31.347 dBm</p> <p>Center 2.570 00 GHz Span 40 MHz #Res BW 300 kHz VBW 910 kHz Sweep 1.36 ms (601 pts)</p> <p>File Operation Status: C:PICTURE.GIF file saved</p> <p>Band LTE7 20MHz CBE QPSK High Channel FRB.gif</p>

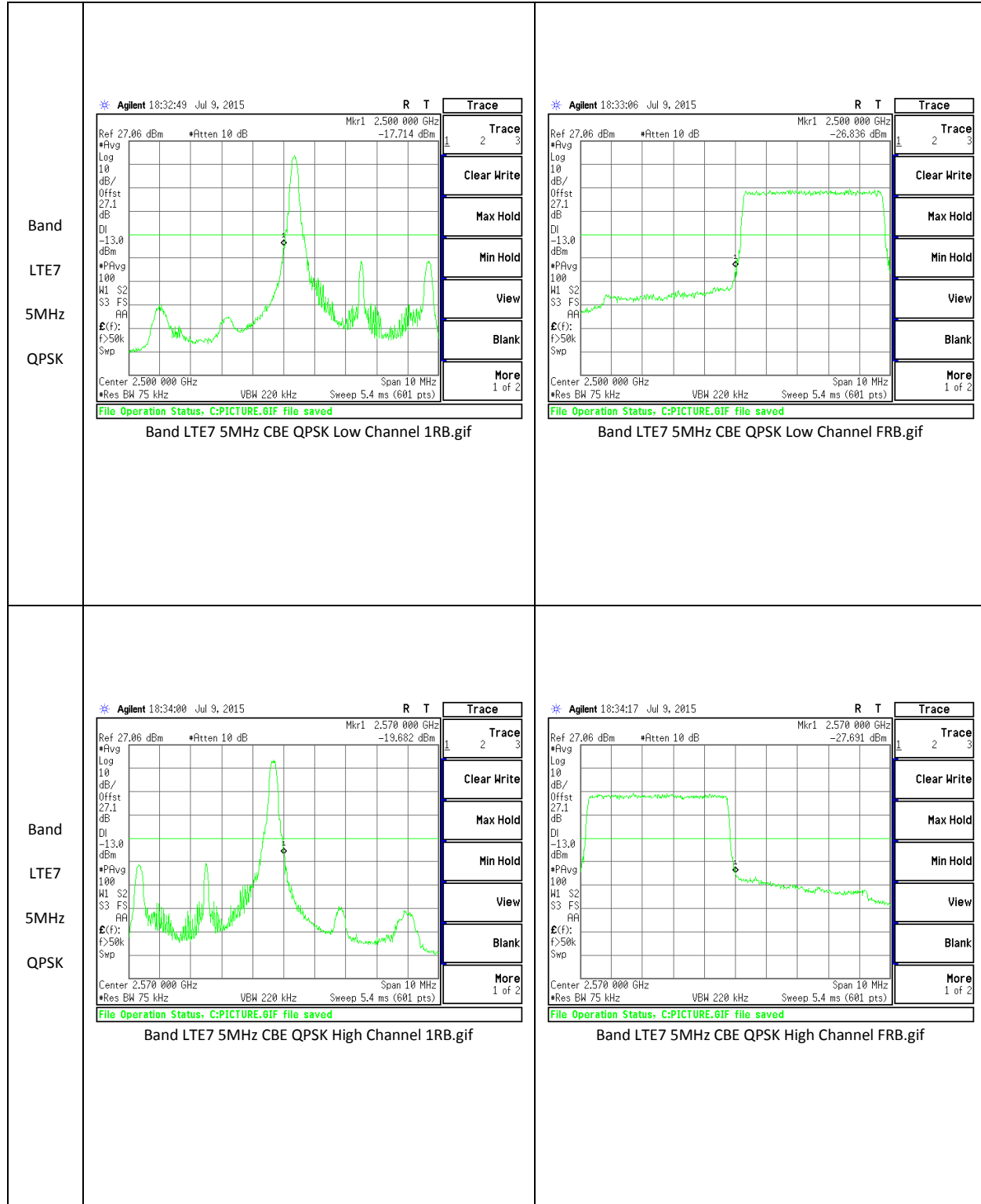


<p>Band LTE7 15MHz QPSK</p>	 <p>Agilent 18:40:20 Jul 9, 2015</p> <p>Ref 27.06 dBm #Atten 10 dB Mkr1 2.500 00 GHz -25.328 dBm</p> <p>Center 2.500 00 GHz Span 30 MHz #Res BW 220 kHz VBW 680 kHz Sweep 1.88 ms (601 pts)</p> <p>File Operation Status. C:PICTURE.GIF file saved</p> <p>Band LTE7 15MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Agilent 18:40:37 Jul 9, 2015</p> <p>Ref 27.06 dBm #Atten 10 dB Mkr1 2.500 00 GHz -31.979 dBm</p> <p>Center 2.500 00 GHz Span 30 MHz #Res BW 220 kHz VBW 680 kHz Sweep 1.88 ms (601 pts)</p> <p>File Operation Status. C:PICTURE.GIF file saved</p> <p>Band LTE7 15MHz CBE QPSK Low Channel FRB.gif</p>
<p>Band LTE7 15MHz QPSK</p>	 <p>Agilent 18:41:31 Jul 9, 2015</p> <p>Ref 27.06 dBm #Atten 10 dB Mkr1 2.570 00 GHz -24.528 dBm</p> <p>Center 2.570 00 GHz Span 30 MHz #Res BW 220 kHz VBW 680 kHz Sweep 1.88 ms (601 pts)</p> <p>File Operation Status. C:PICTURE.GIF file saved</p> <p>Band LTE7 15MHz CBE QPSK High Channel 1RB.gif</p>	 <p>Agilent 18:41:48 Jul 9, 2015</p> <p>Ref 27.06 dBm #Atten 10 dB Mkr1 2.570 00 GHz -31.119 dBm</p> <p>Center 2.570 00 GHz Span 30 MHz #Res BW 220 kHz VBW 680 kHz Sweep 1.88 ms (601 pts)</p> <p>File Operation Status. C:PICTURE.GIF file saved</p> <p>Band LTE7 15MHz CBE QPSK High Channel FRB.gif</p>

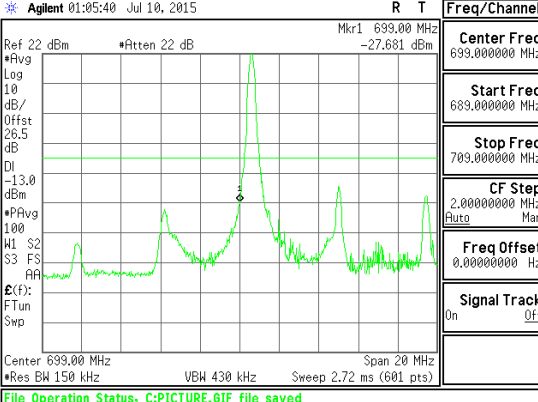
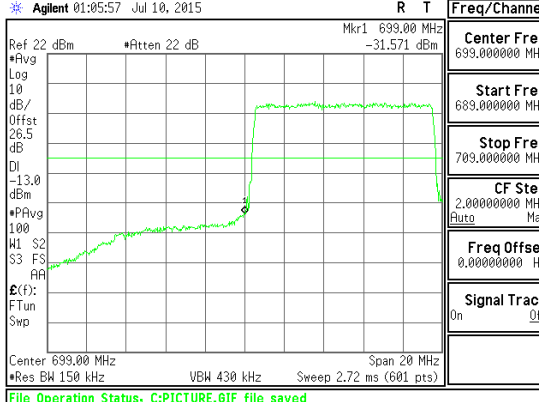
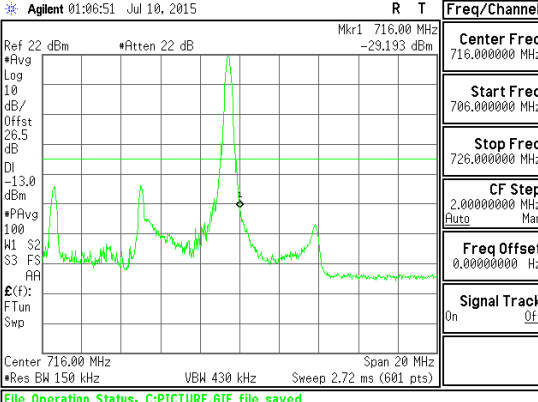
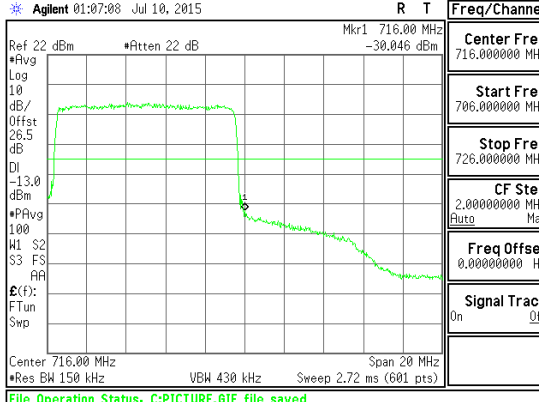


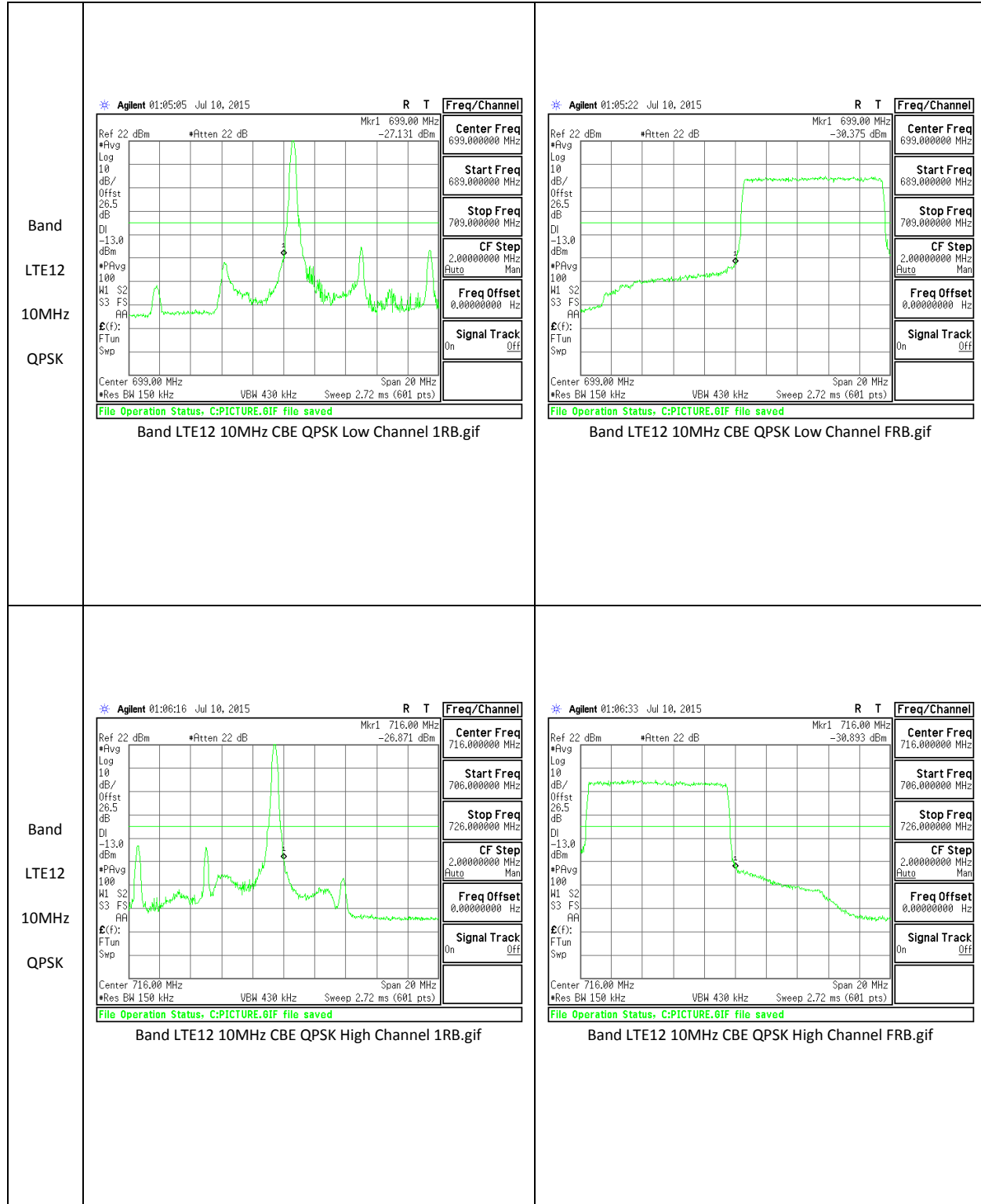


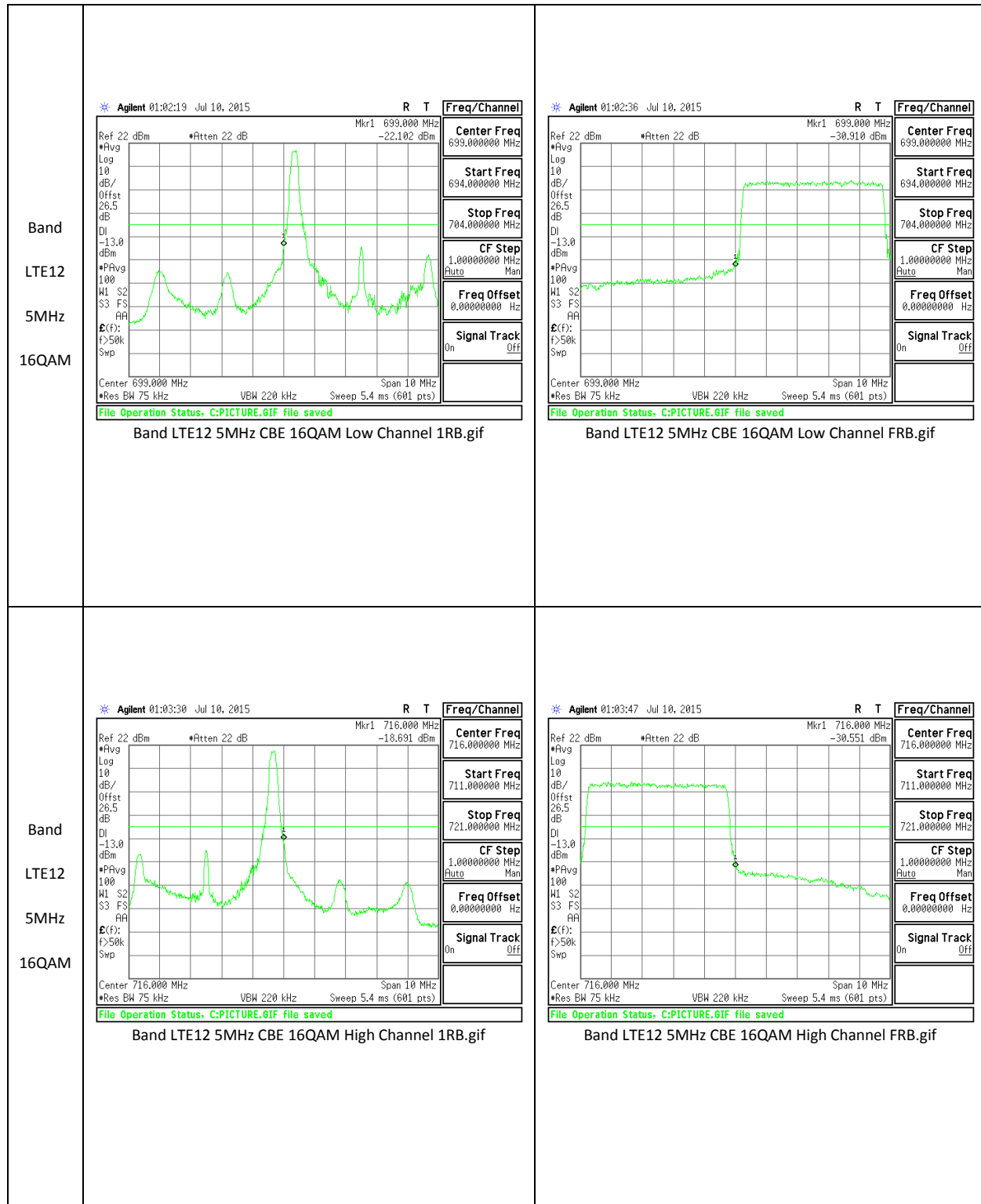


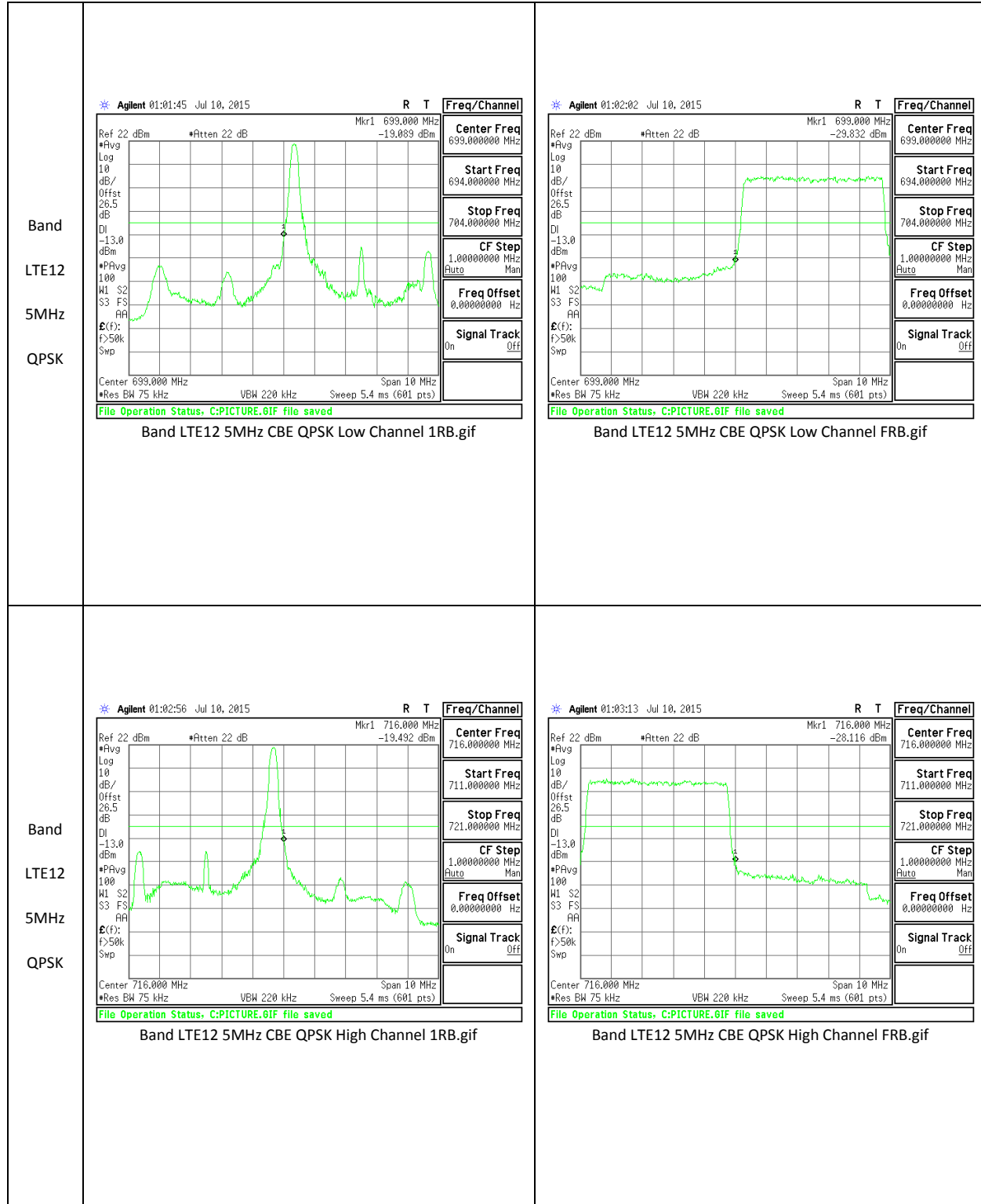


LTE Band 12

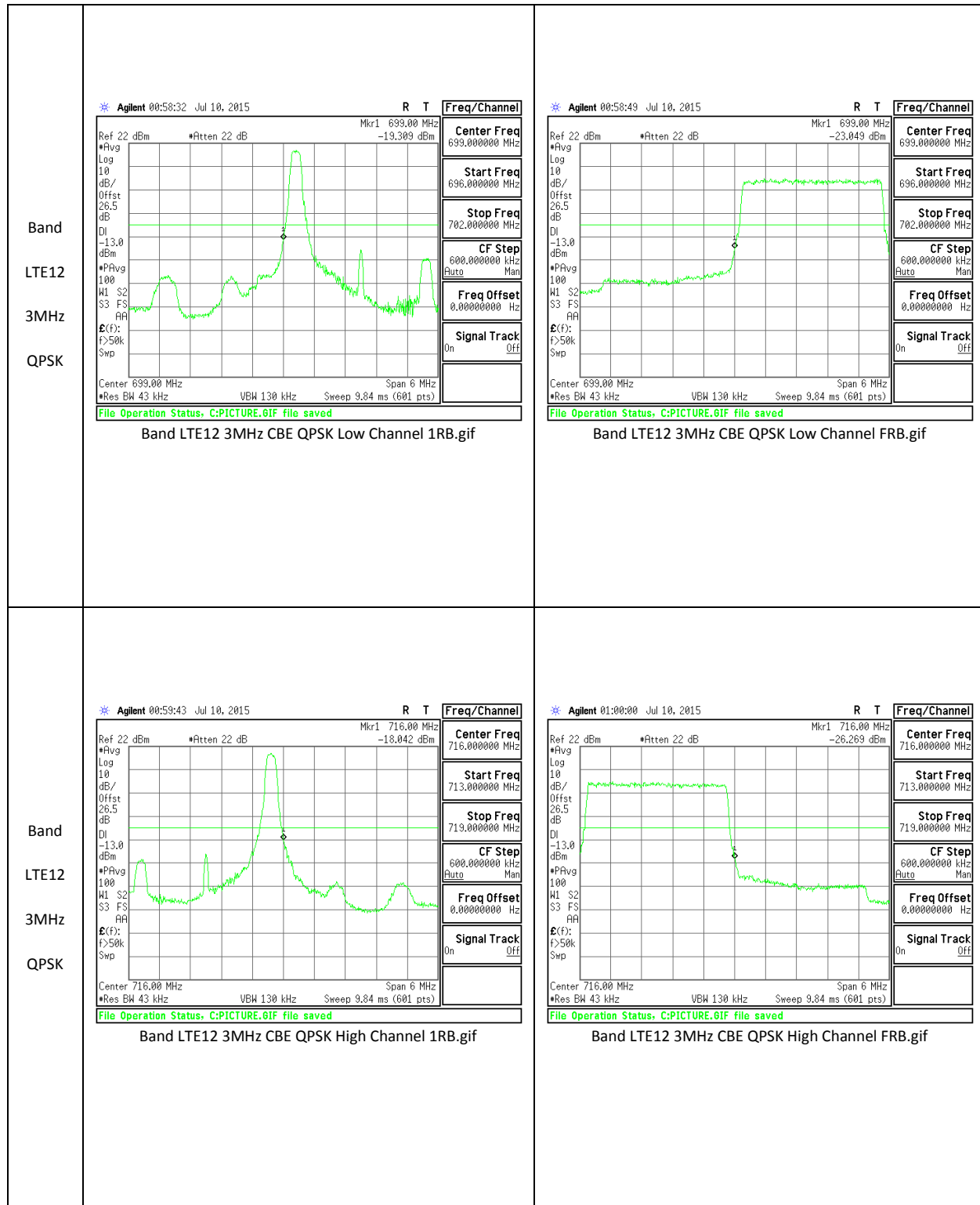
<p>Band LTE12 10MHz 16QAM</p>	 <p>Agilent 01:05:40 Jul 10, 2015 R T</p> <p>Center Freq: 699.000000 MHz Start Freq: 689.000000 MHz Stop Freq: 709.000000 MHz CF Step: 2.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: On</p> <p>Center 699.00 MHz Mkr1 699.00 MHz Res BW 150 kHz VBW 430 kHz Sweep 2.72 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE12 10MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Agilent 01:05:57 Jul 10, 2015 R T</p> <p>Center Freq: 699.000000 MHz Start Freq: 689.000000 MHz Stop Freq: 709.000000 MHz CF Step: 2.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: On</p> <p>Center 699.00 MHz Mkr1 699.00 MHz Res BW 150 kHz VBW 430 kHz Sweep 2.72 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE12 10MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE12 10MHz 16QAM</p>	 <p>Agilent 01:06:51 Jul 10, 2015 R T</p> <p>Center Freq: 716.000000 MHz Start Freq: 706.000000 MHz Stop Freq: 726.000000 MHz CF Step: 2.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: On</p> <p>Center 716.00 MHz Mkr1 716.00 MHz Res BW 150 kHz VBW 430 kHz Sweep 2.72 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE12 10MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Agilent 01:07:08 Jul 10, 2015 R T</p> <p>Center Freq: 716.000000 MHz Start Freq: 706.000000 MHz Stop Freq: 726.000000 MHz CF Step: 2.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: On</p> <p>Center 716.00 MHz Mkr1 716.00 MHz Res BW 150 kHz VBW 430 kHz Sweep 2.72 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE12 10MHz CBE 16QAM High Channel FRB.gif</p>

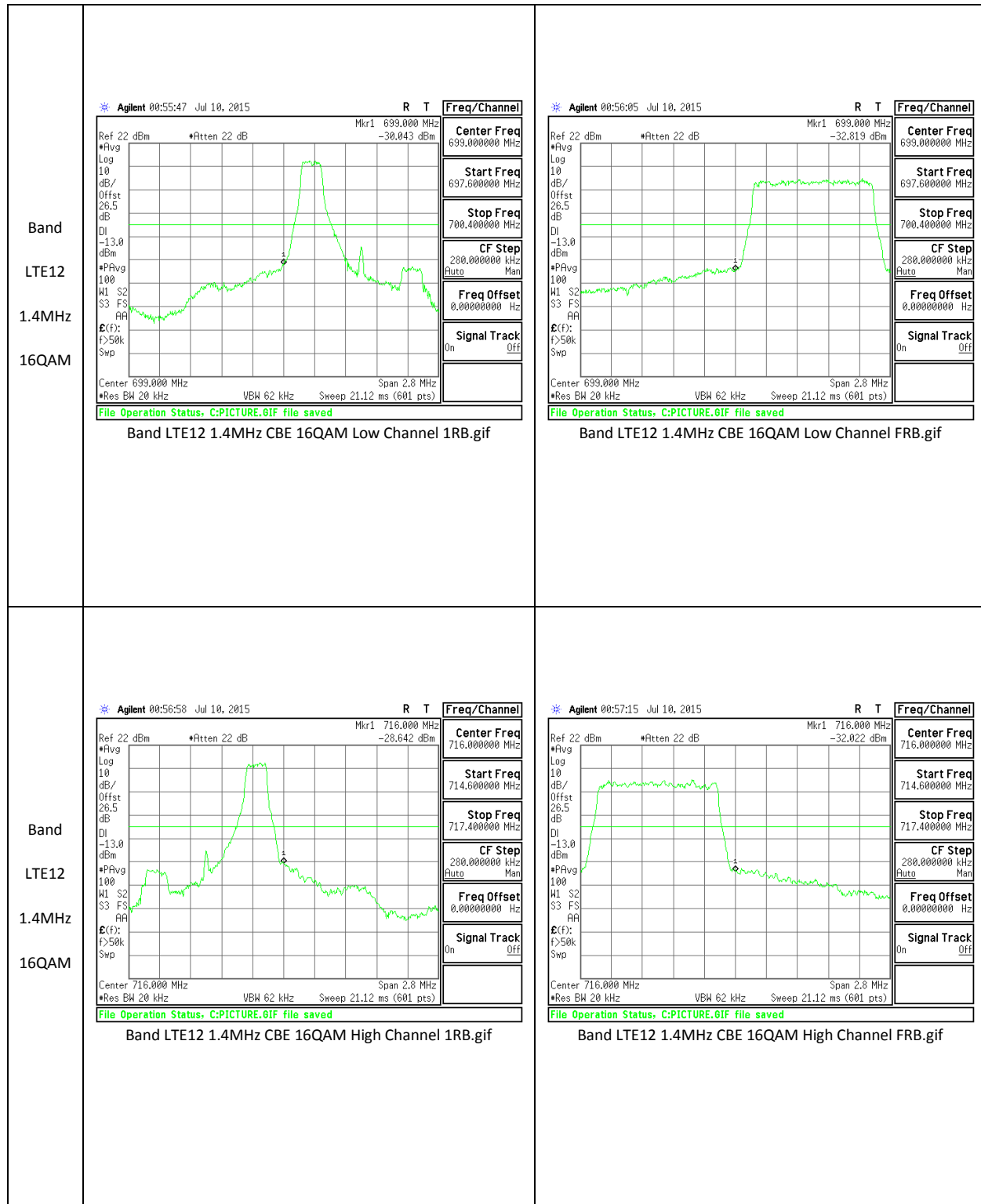


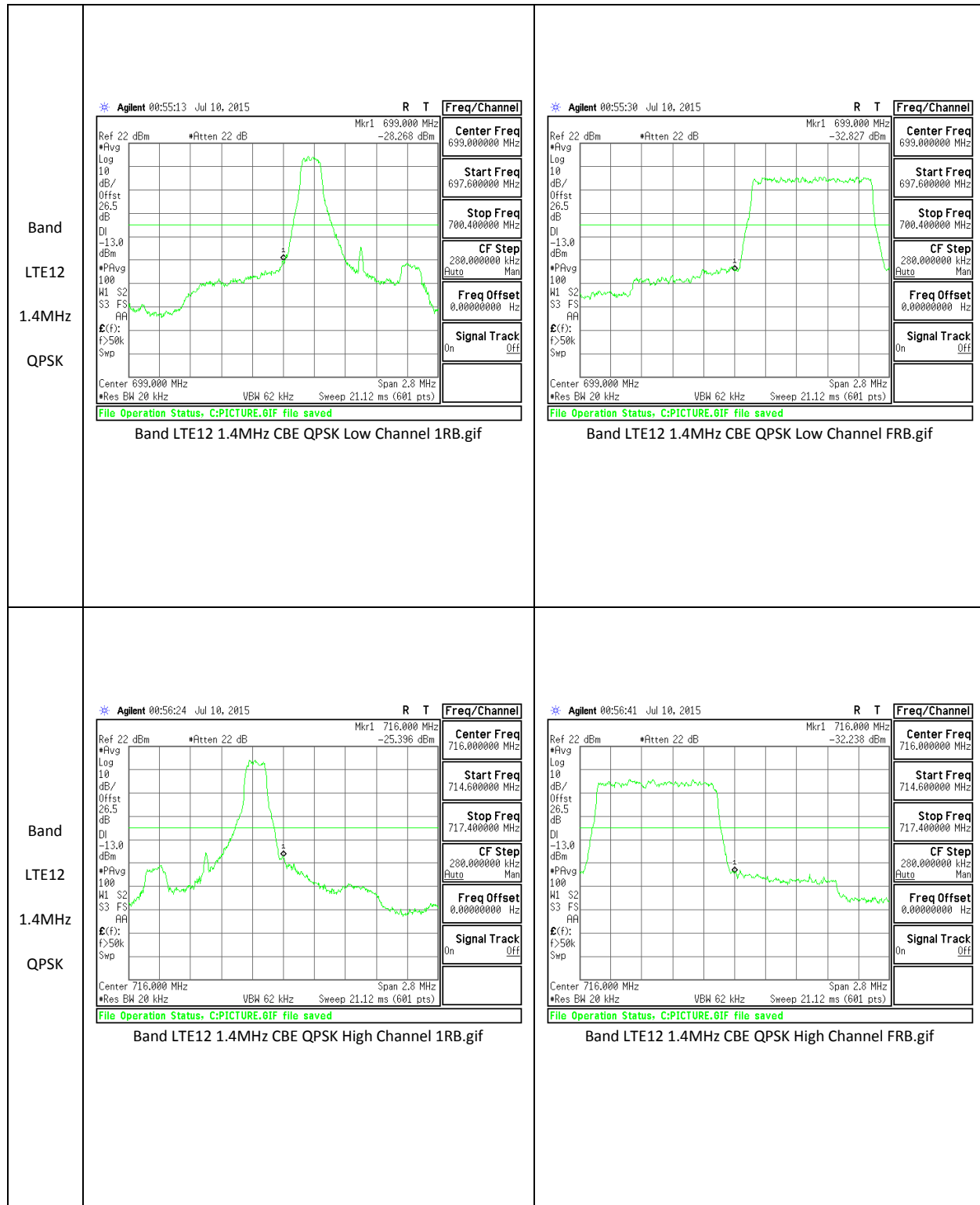




<p>Band LTE12 3MHz 16QAM</p>	<p>Agilent 00:59:06 Jul 10, 2015</p> <p>Center Freq: 699.000000 MHz Start Freq: 696.000000 MHz Stop Freq: 702.000000 MHz CF Step: 600.000000 kHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE12 3MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Agilent 00:59:23 Jul 10, 2015</p> <p>Center Freq: 699.000000 MHz Start Freq: 696.000000 MHz Stop Freq: 702.000000 MHz CF Step: 600.000000 kHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE12 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE12 3MHz 16QAM</p>	<p>Agilent 01:00:17 Jul 10, 2015</p> <p>Center Freq: 716.000000 MHz Start Freq: 713.000000 MHz Stop Freq: 719.000000 MHz CF Step: 600.000000 kHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE12 3MHz CBE 16QAM High Channel 1RB.gif</p>	<p>Agilent 01:00:34 Jul 10, 2015</p> <p>Center Freq: 716.000000 MHz Start Freq: 713.000000 MHz Stop Freq: 719.000000 MHz CF Step: 600.000000 kHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE12 3MHz CBE 16QAM High Channel FRB.gif</p>

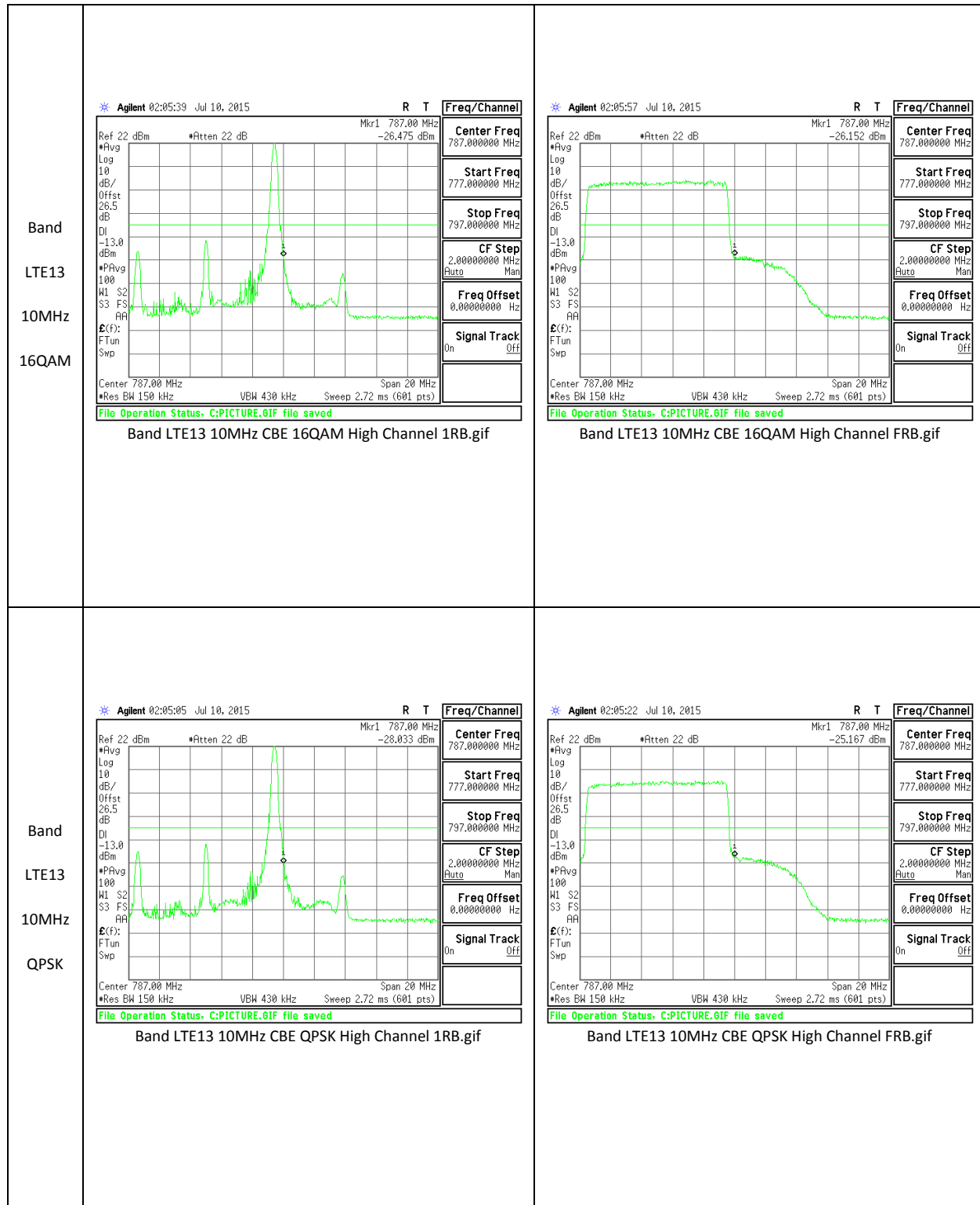


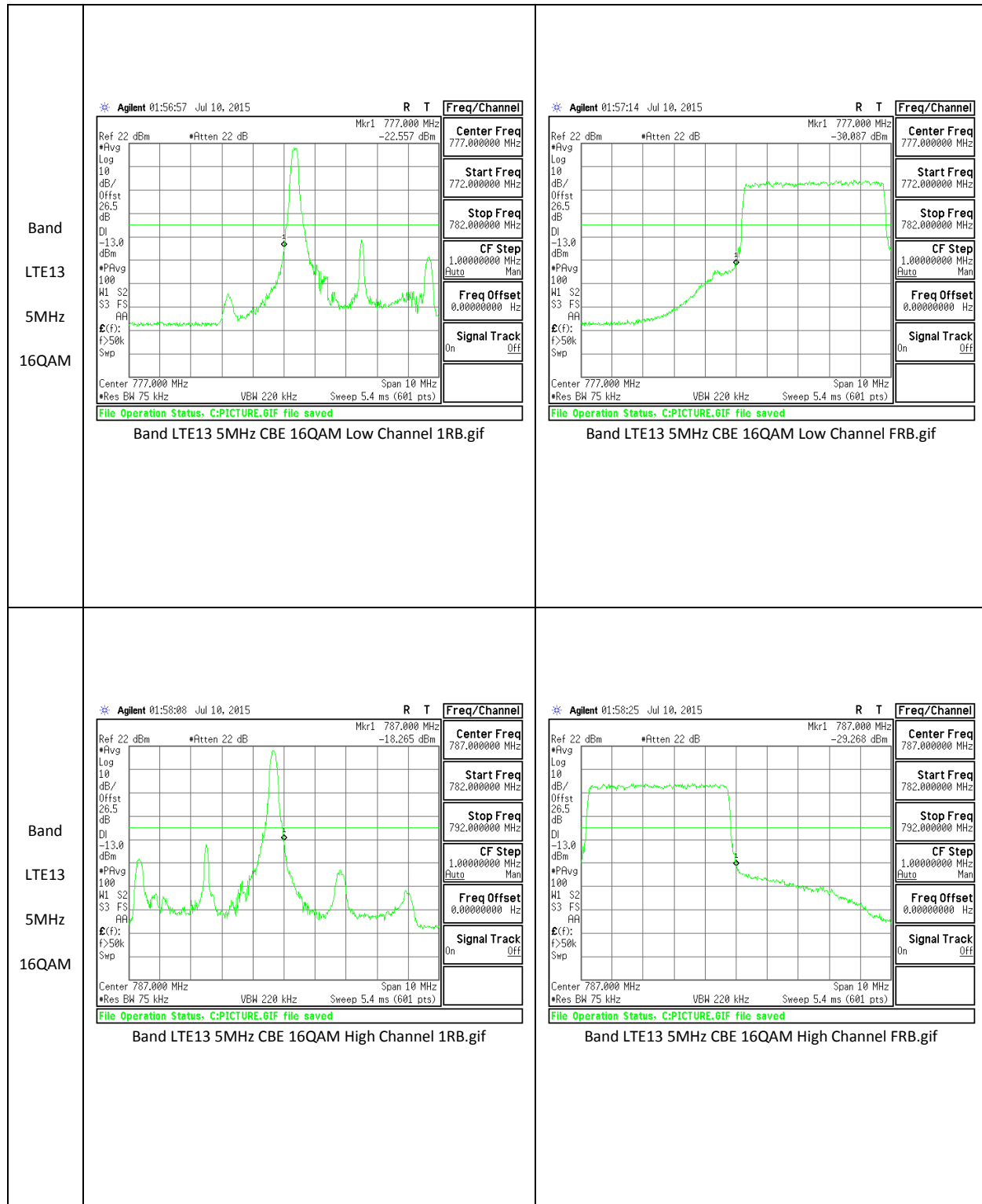


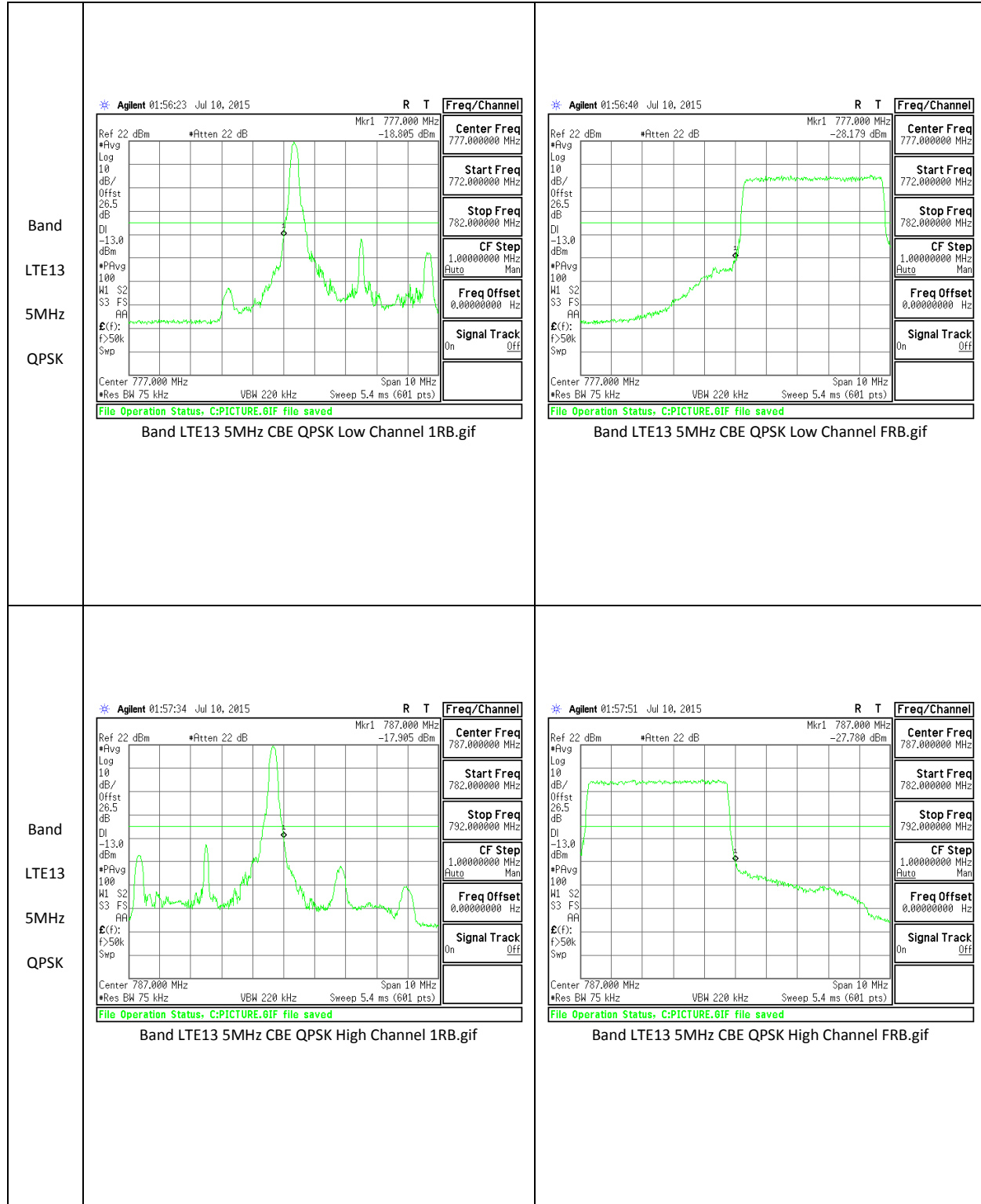


LTE Band 13

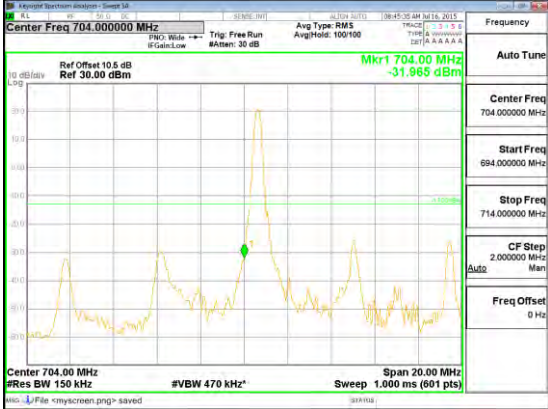

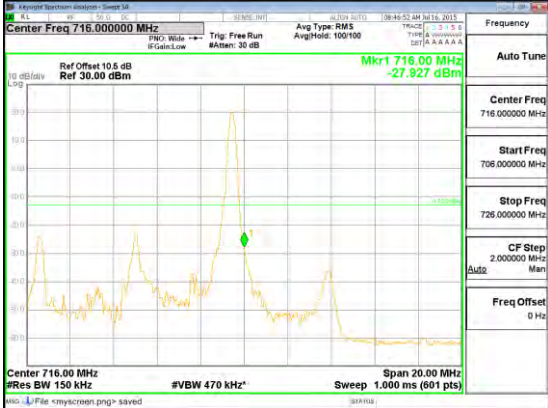

<p>Band LTE13 10MHz 16QAM</p>	<p>Agilent 02:05:39 Jul 10, 2015</p> <p>Center Freq: 787.000000 MHz Start Freq: 777.000000 MHz Stop Freq: 797.000000 MHz CF Step: 2.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>Band LTE13 10MHz CBE 16QAM High Channel 1RB.gif</p>	<p>Agilent 02:05:57 Jul 10, 2015</p> <p>Center Freq: 787.000000 MHz Start Freq: 777.000000 MHz Stop Freq: 797.000000 MHz CF Step: 2.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>Band LTE13 10MHz CBE 16QAM High Channel FRB.gif</p>
<p>Band LTE13 10MHz QPSK</p>	<p>Agilent 02:05:05 Jul 10, 2015</p> <p>Center Freq: 787.000000 MHz Start Freq: 777.000000 MHz Stop Freq: 797.000000 MHz CF Step: 2.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>Band LTE13 10MHz CBE QPSK High Channel 1RB.gif</p>	<p>Agilent 02:05:22 Jul 10, 2015</p> <p>Center Freq: 787.000000 MHz Start Freq: 777.000000 MHz Stop Freq: 797.000000 MHz CF Step: 2.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>Band LTE13 10MHz CBE QPSK High Channel FRB.gif</p>

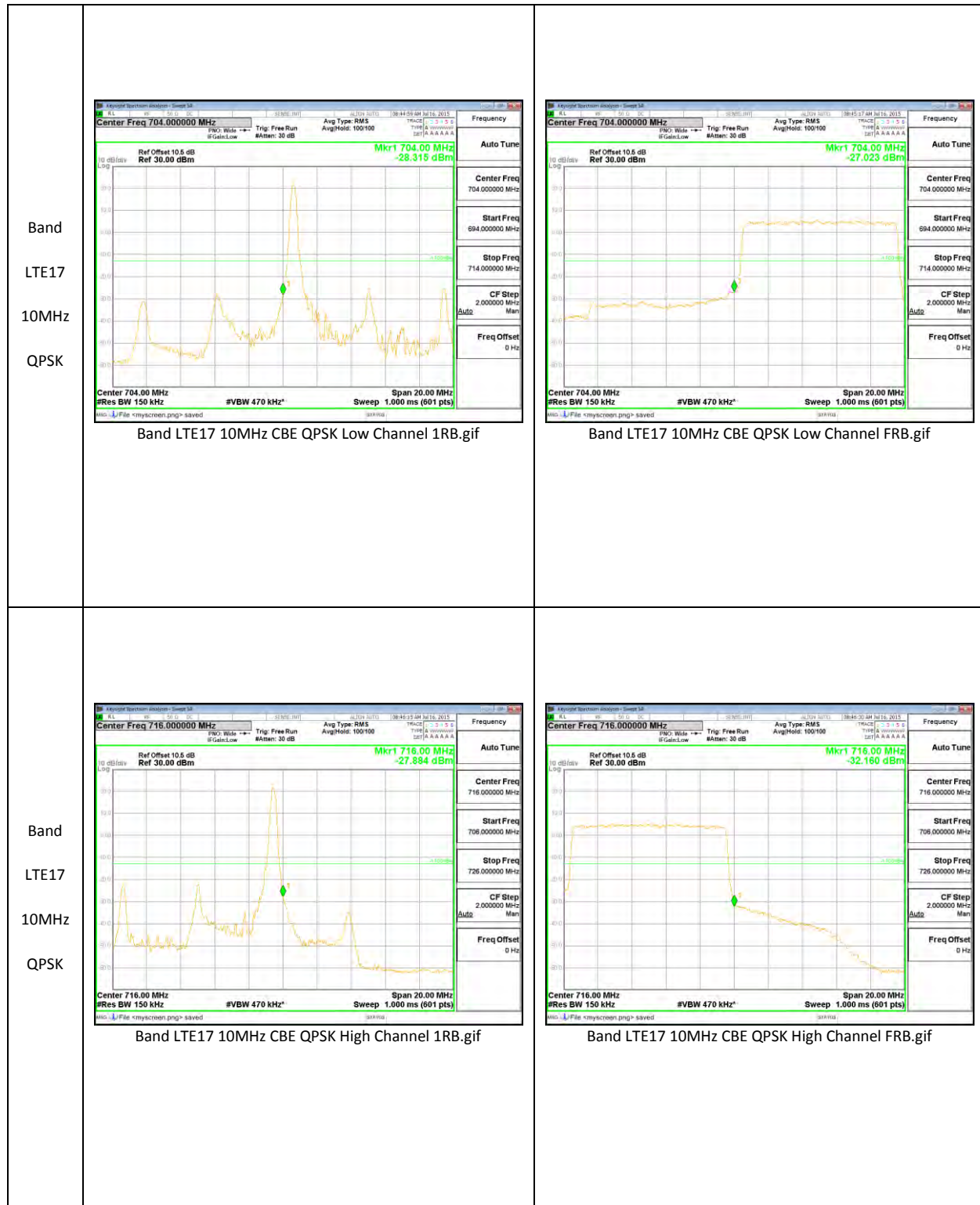


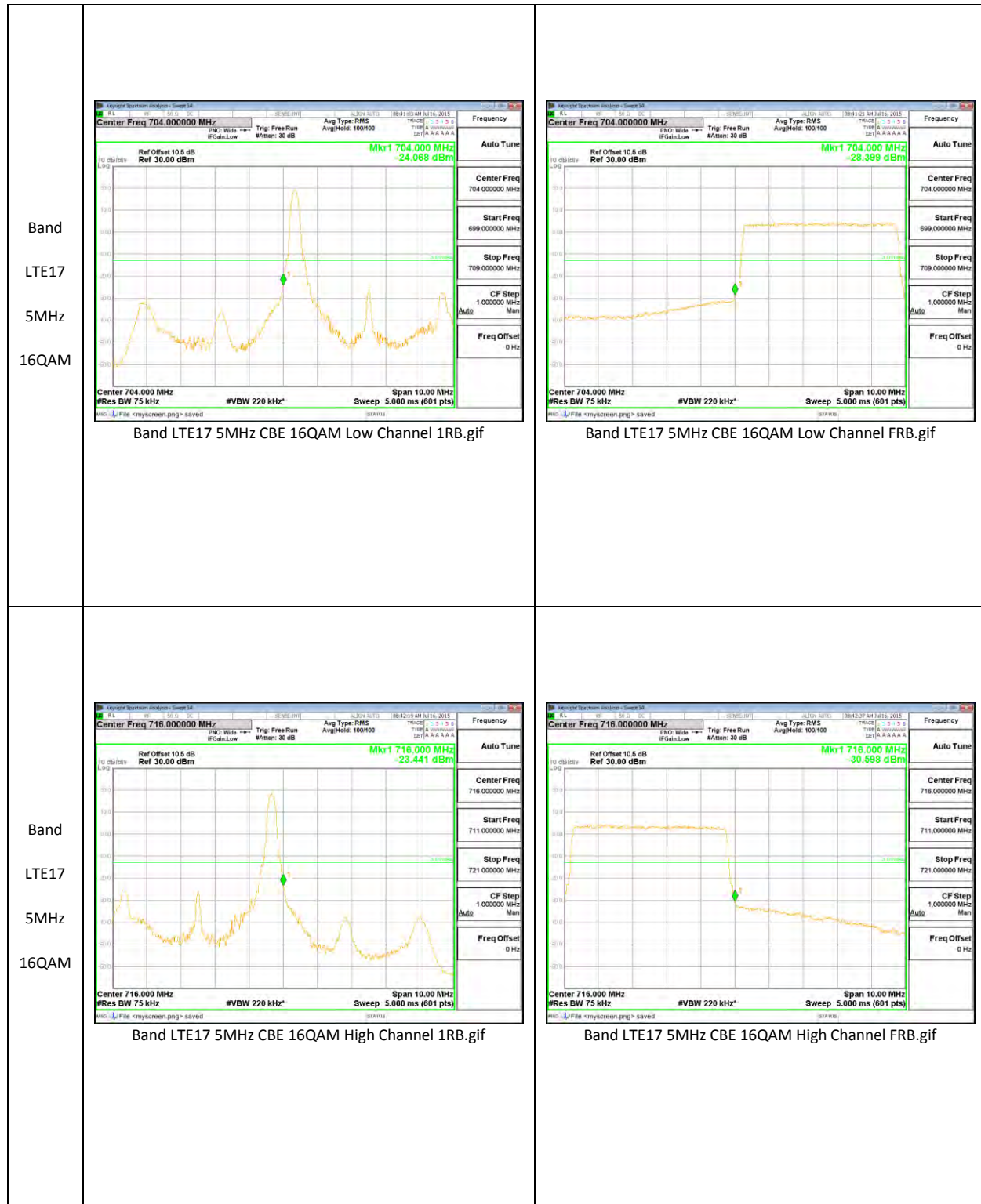


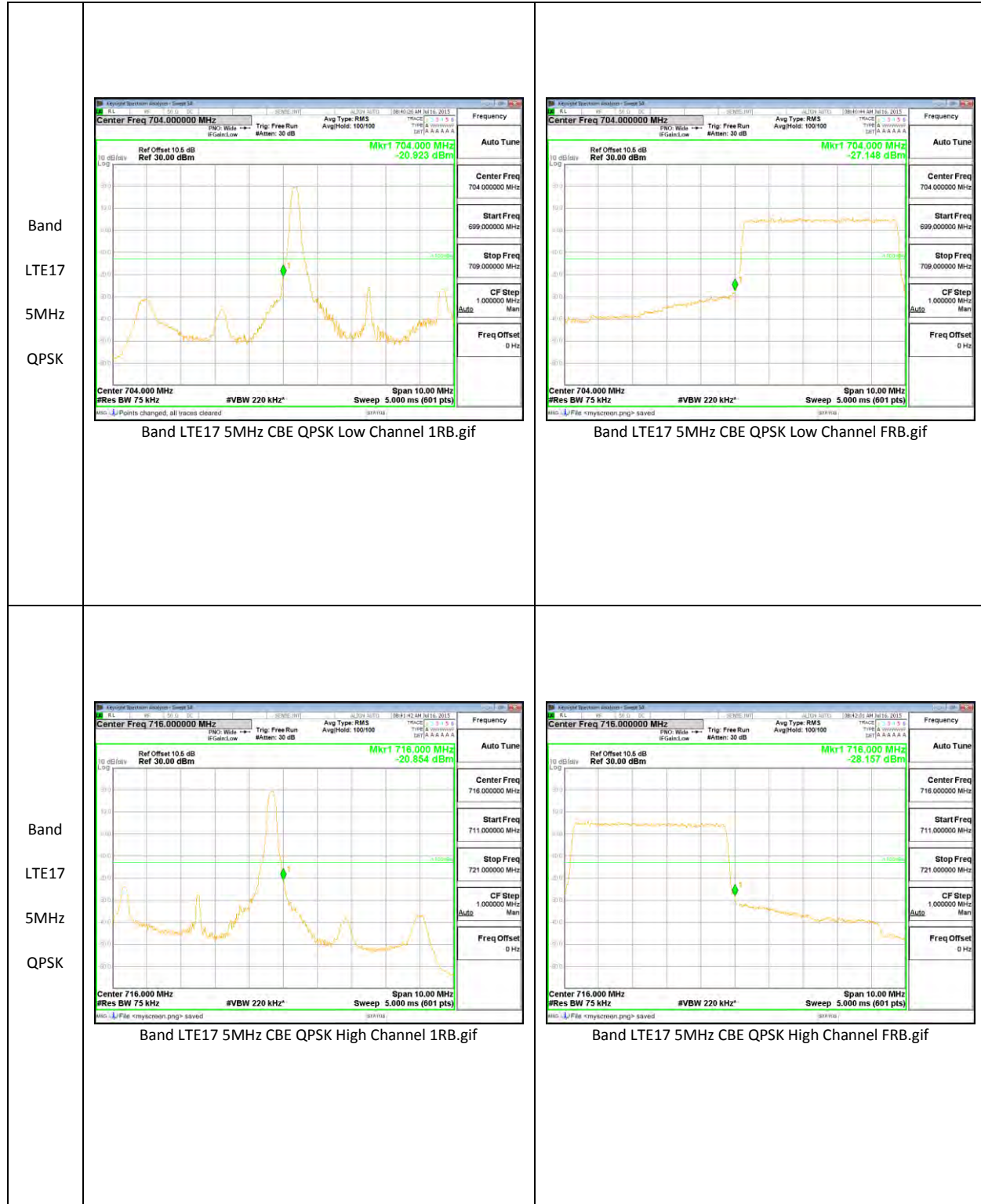


LTE Band 17

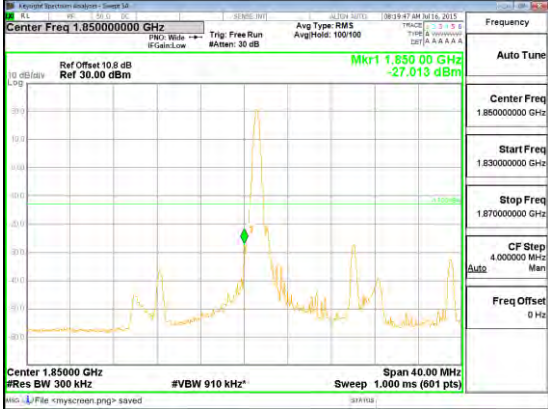
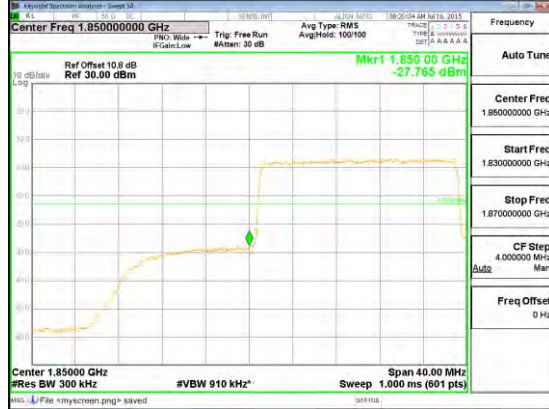
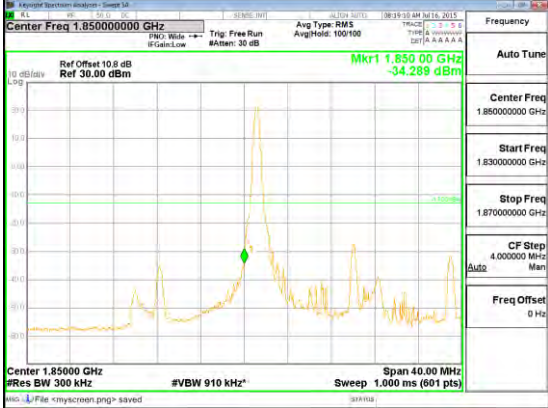

<p>Band LTE17 10MHz 16QAM</p>	 <p>Band LTE17 10MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE17 10MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE17 10MHz 16QAM</p>	 <p>Band LTE17 10MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE17 10MHz CBE 16QAM High Channel FRB.gif</p>

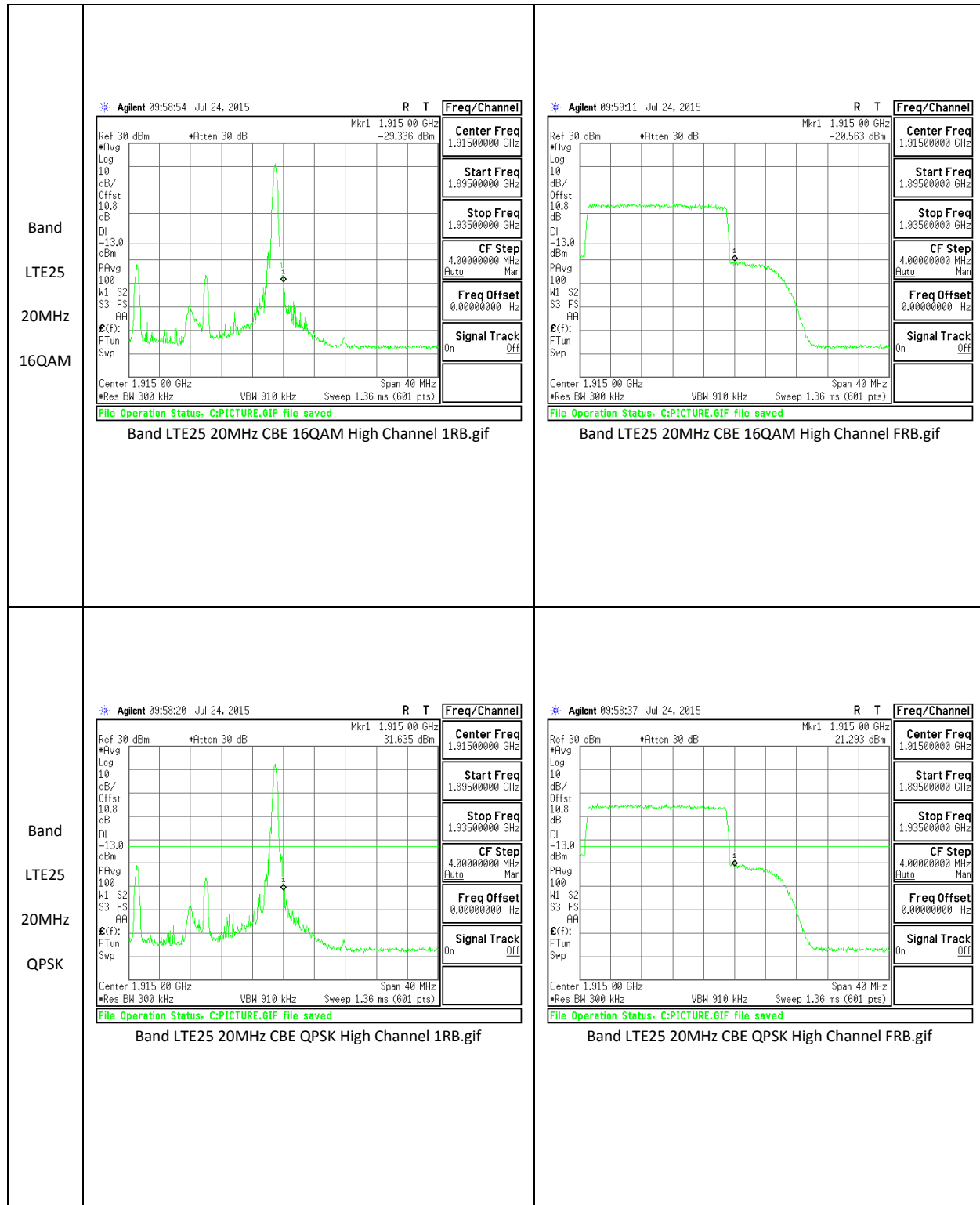


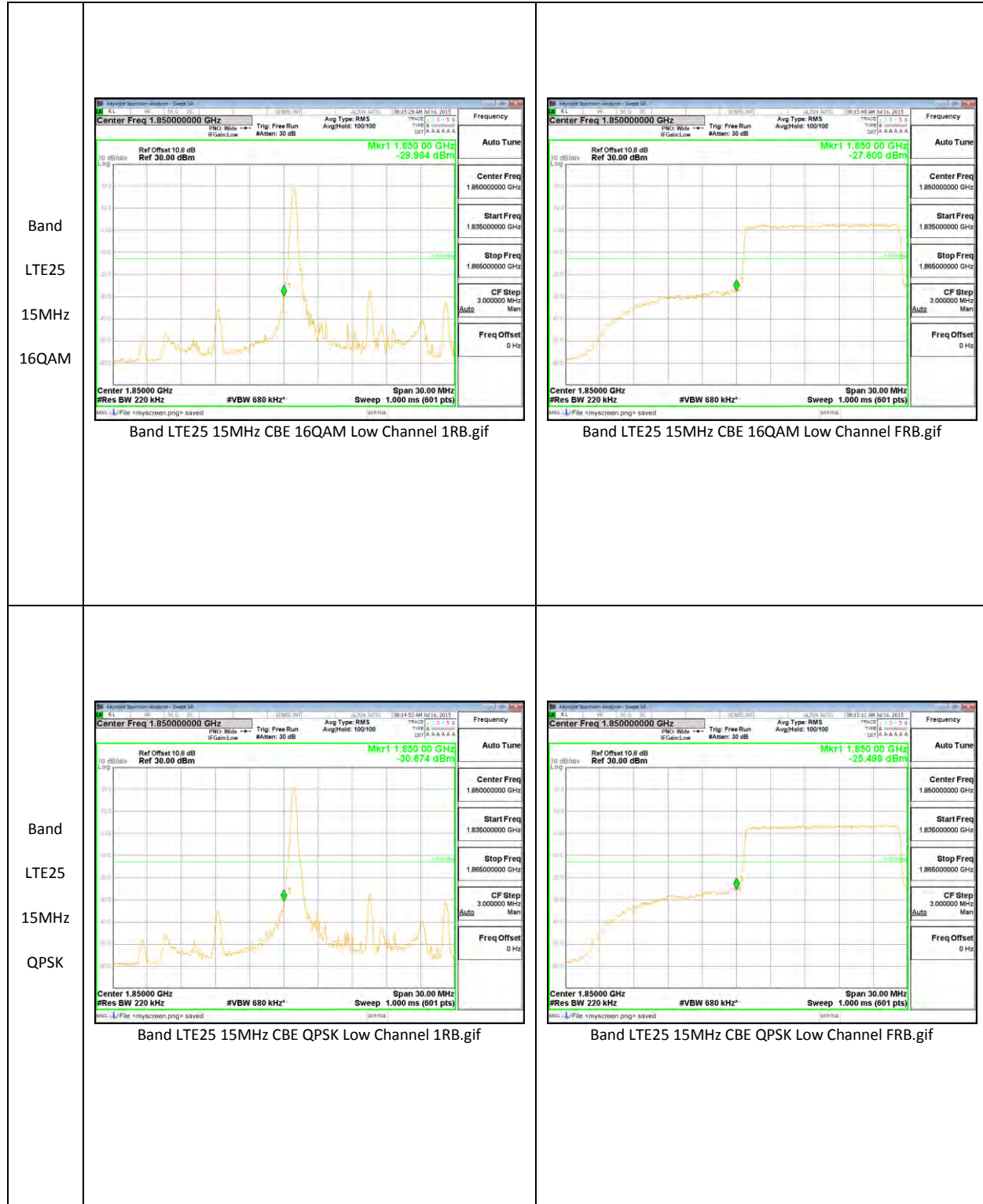


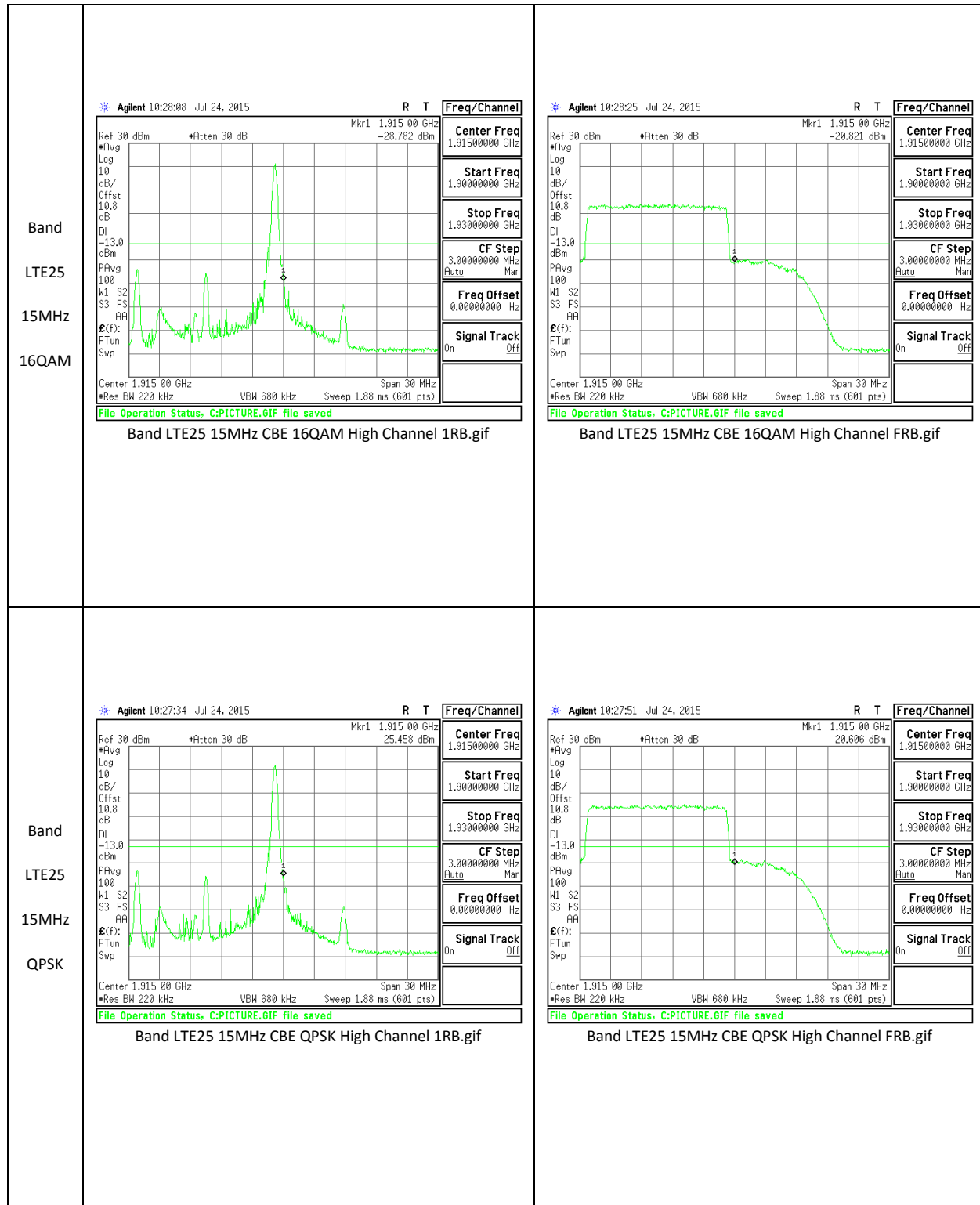


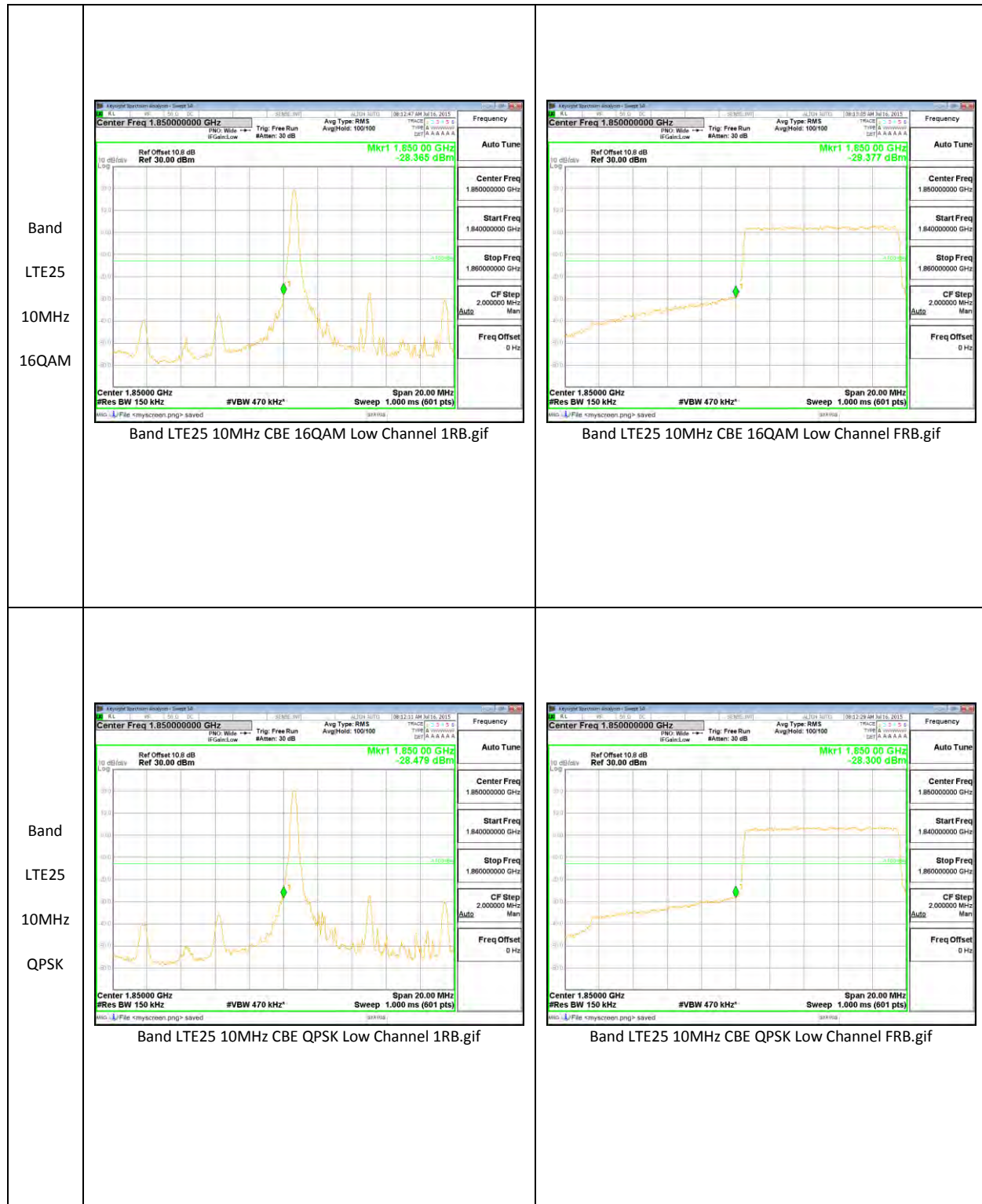
LTE Band 25

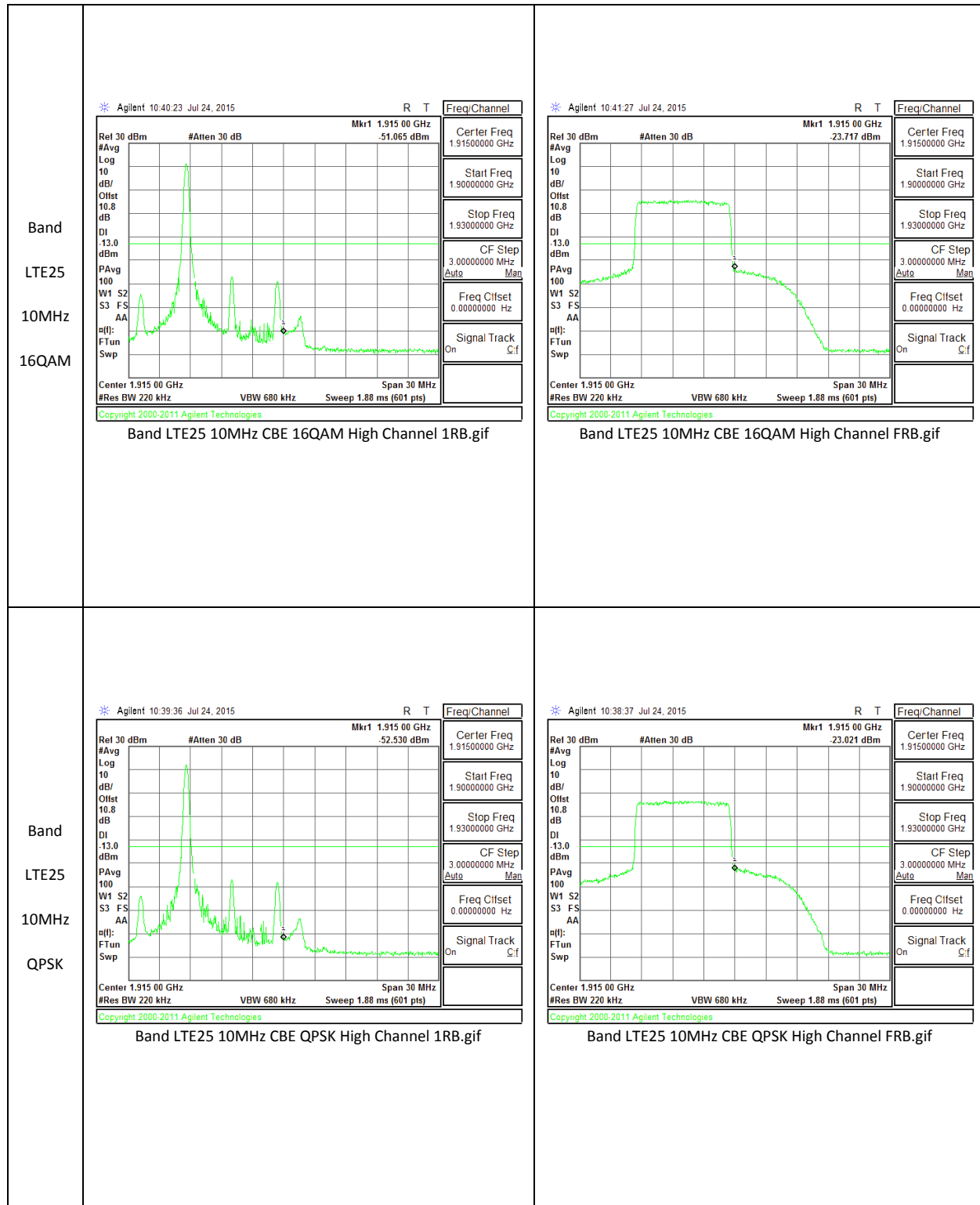
Band LTE25 20MHz 16QAM	 <p>Center Freq 1.85000000 GHz Ref Offset 10.0 dB Ref 30.00 dBm Mkr1 1.850 00 GHz -27.013 dBm</p> <p>Center Freq 1.85000000 GHz Start Freq 1.83000000 GHz Stop Freq 1.87000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz</p> <p>Center 1.850000 GHz Res BW 300 kHz #VBW 910 kHz* Sweep 1.000 ms (601 pts)</p> <p>Span 40.00 MHz</p> <p>Band LTE25 20MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Center Freq 1.85000000 GHz Ref Offset 10.0 dB Ref 30.00 dBm Mkr1 1.850 00 GHz -27.765 dBm</p> <p>Center Freq 1.85000000 GHz Start Freq 1.83000000 GHz Stop Freq 1.87000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz</p> <p>Center 1.850000 GHz Res BW 300 kHz #VBW 910 kHz* Sweep 1.000 ms (601 pts)</p> <p>Span 40.00 MHz</p> <p>Band LTE25 20MHz CBE 16QAM Low Channel FRB.gif</p>
Band LTE25 20MHz QPSK	 <p>Center Freq 1.85000000 GHz Ref Offset 10.0 dB Ref 30.00 dBm Mkr1 1.850 00 GHz -34.289 dBm</p> <p>Center Freq 1.85000000 GHz Start Freq 1.83000000 GHz Stop Freq 1.87000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz</p> <p>Center 1.850000 GHz Res BW 300 kHz #VBW 910 kHz* Sweep 1.000 ms (601 pts)</p> <p>Span 40.00 MHz</p> <p>Band LTE25 20MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Center Freq 1.85000000 GHz Ref Offset 10.0 dB Ref 30.00 dBm Mkr1 1.850 00 GHz -26.524 dBm</p> <p>Center Freq 1.85000000 GHz Start Freq 1.83000000 GHz Stop Freq 1.87000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz</p> <p>Center 1.850000 GHz Res BW 300 kHz #VBW 910 kHz* Sweep 1.000 ms (601 pts)</p> <p>Span 40.00 MHz</p> <p>Band LTE25 20MHz CBE QPSK Low Channel FRB.gif</p>

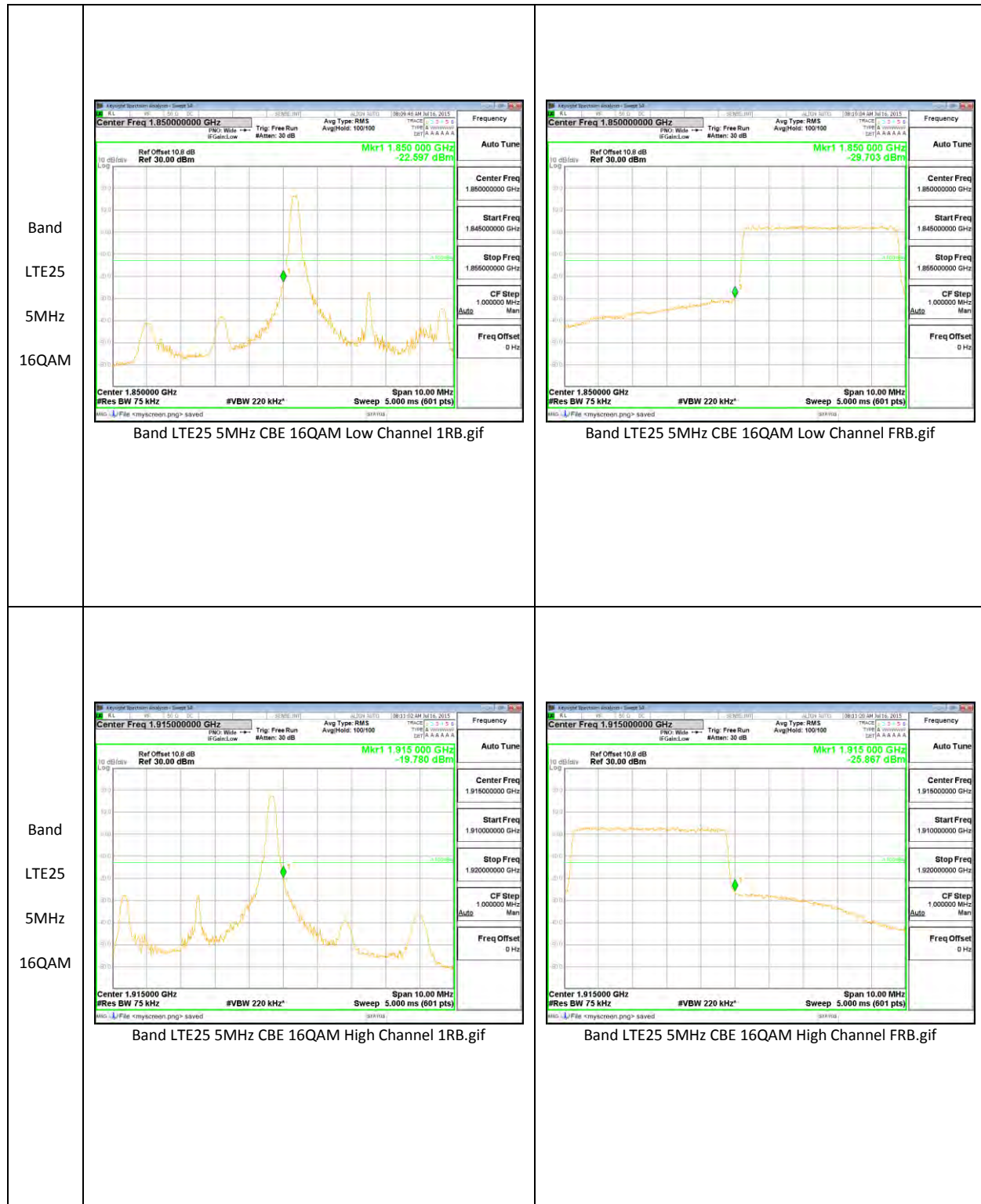


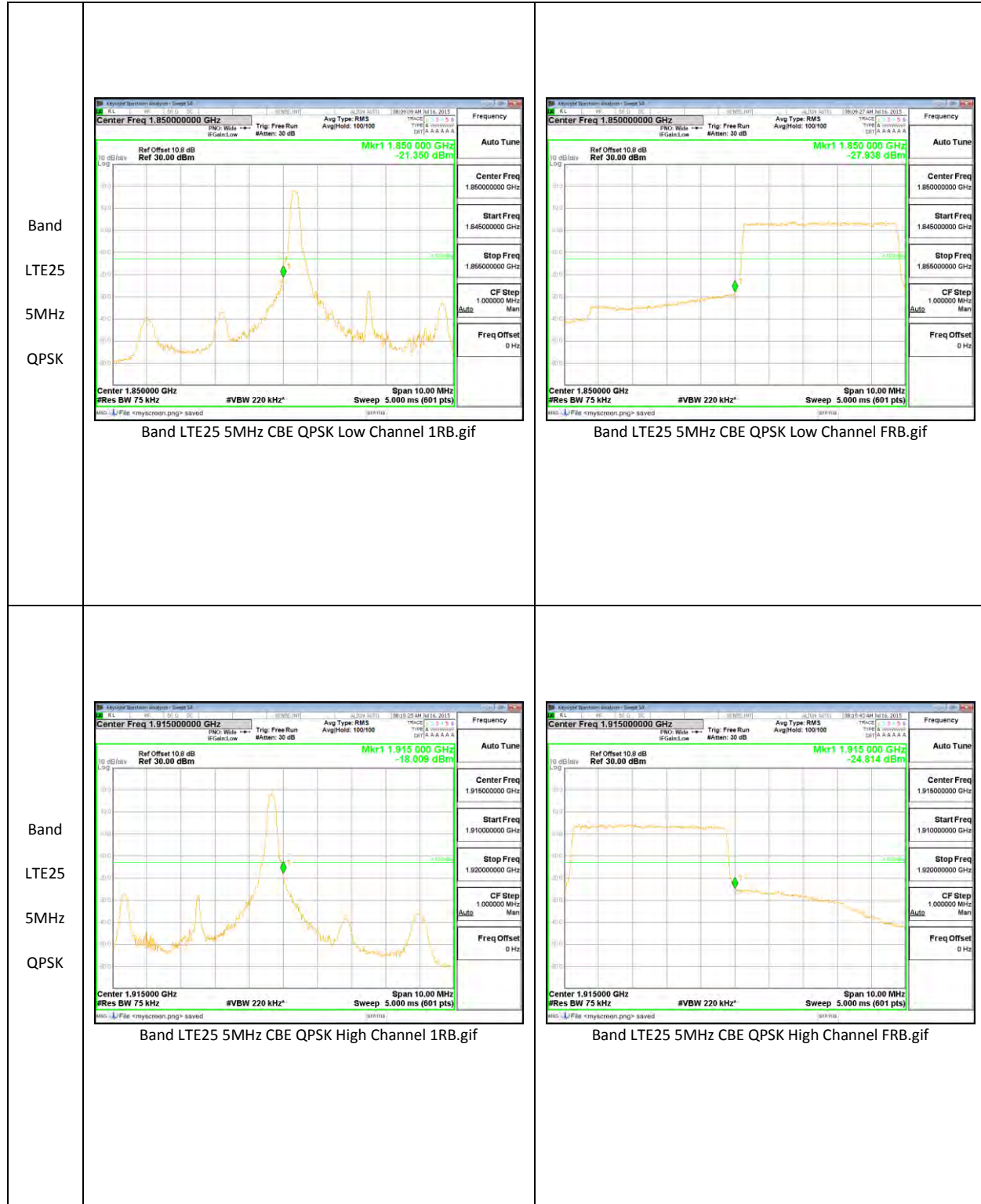


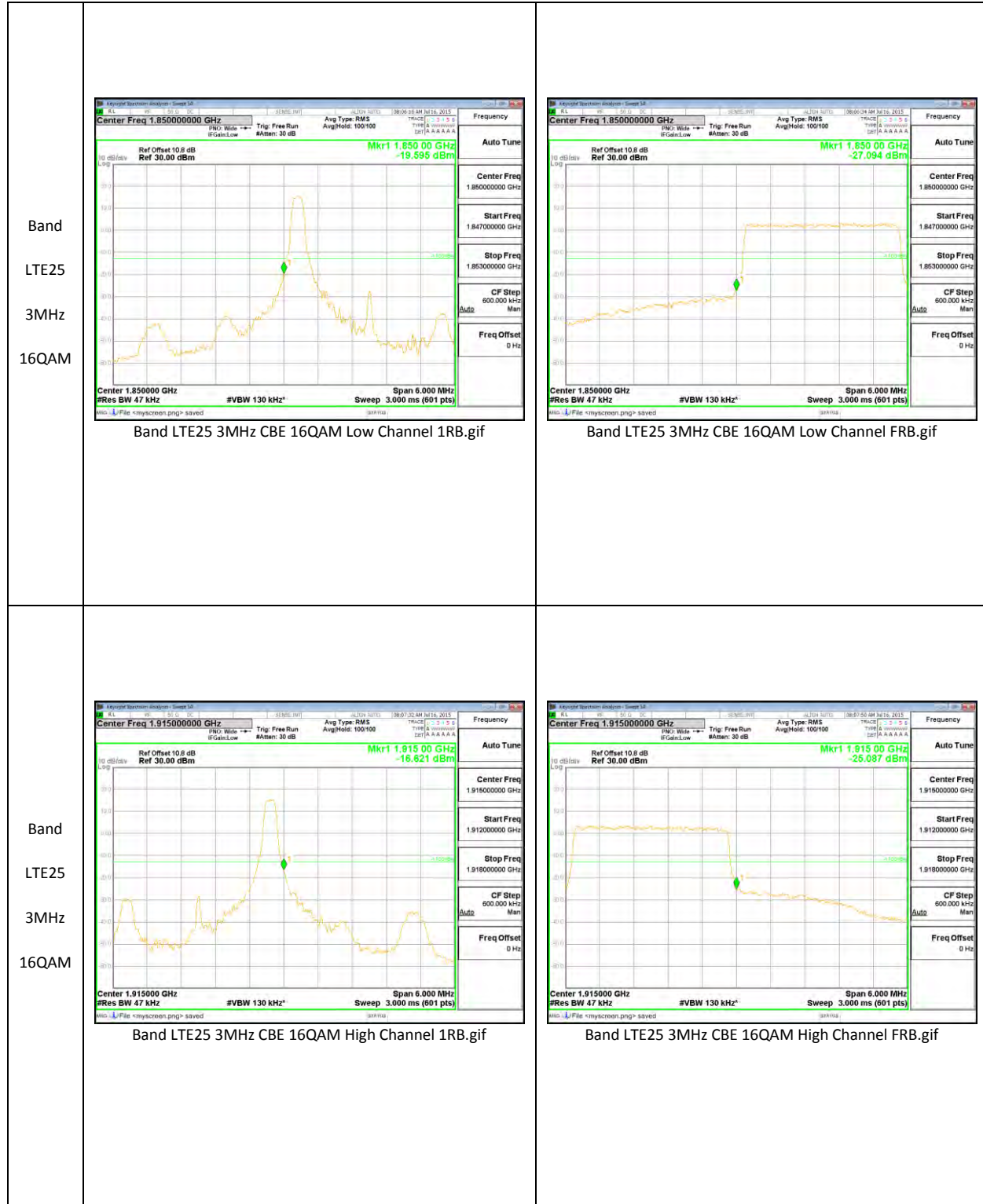


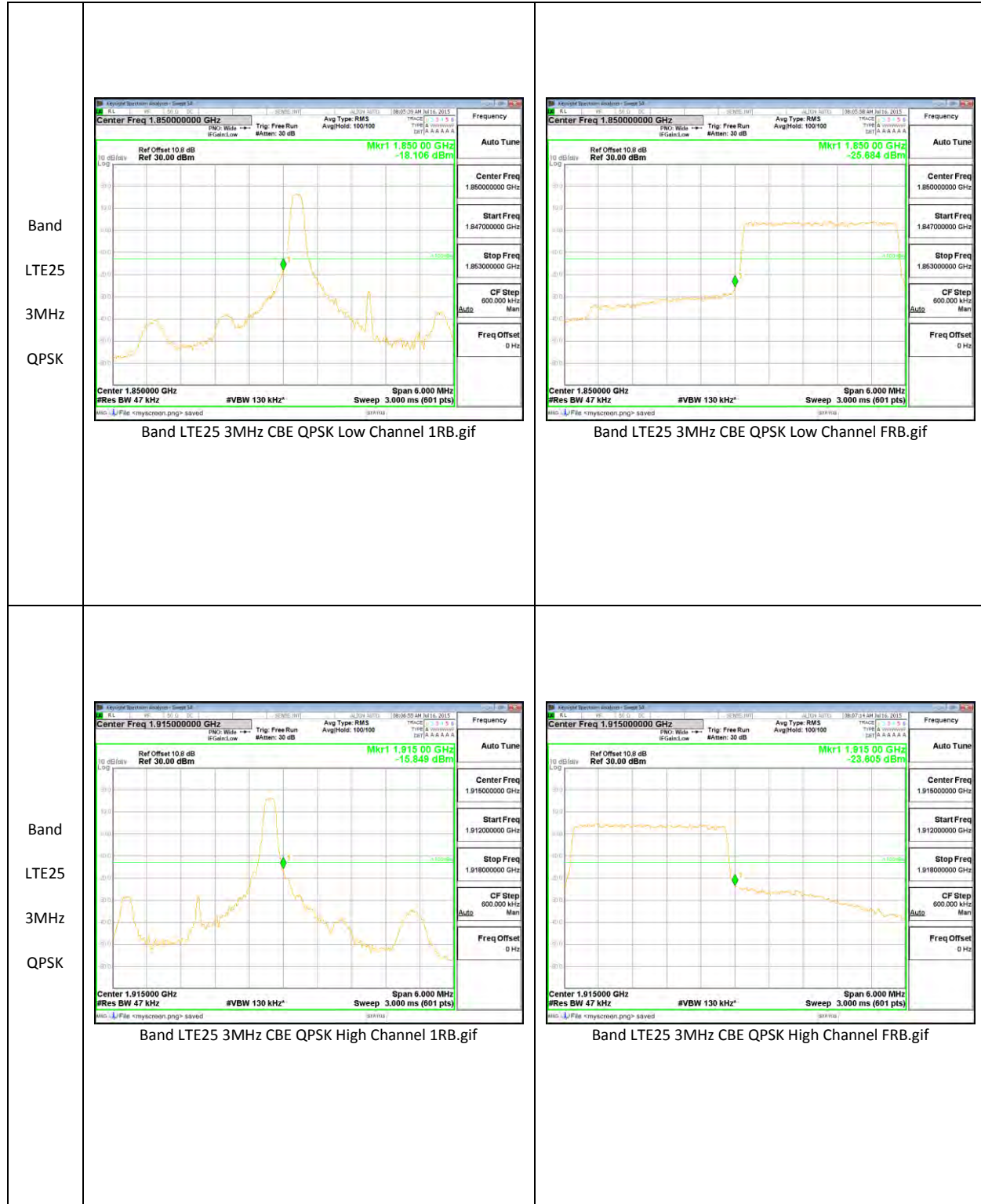


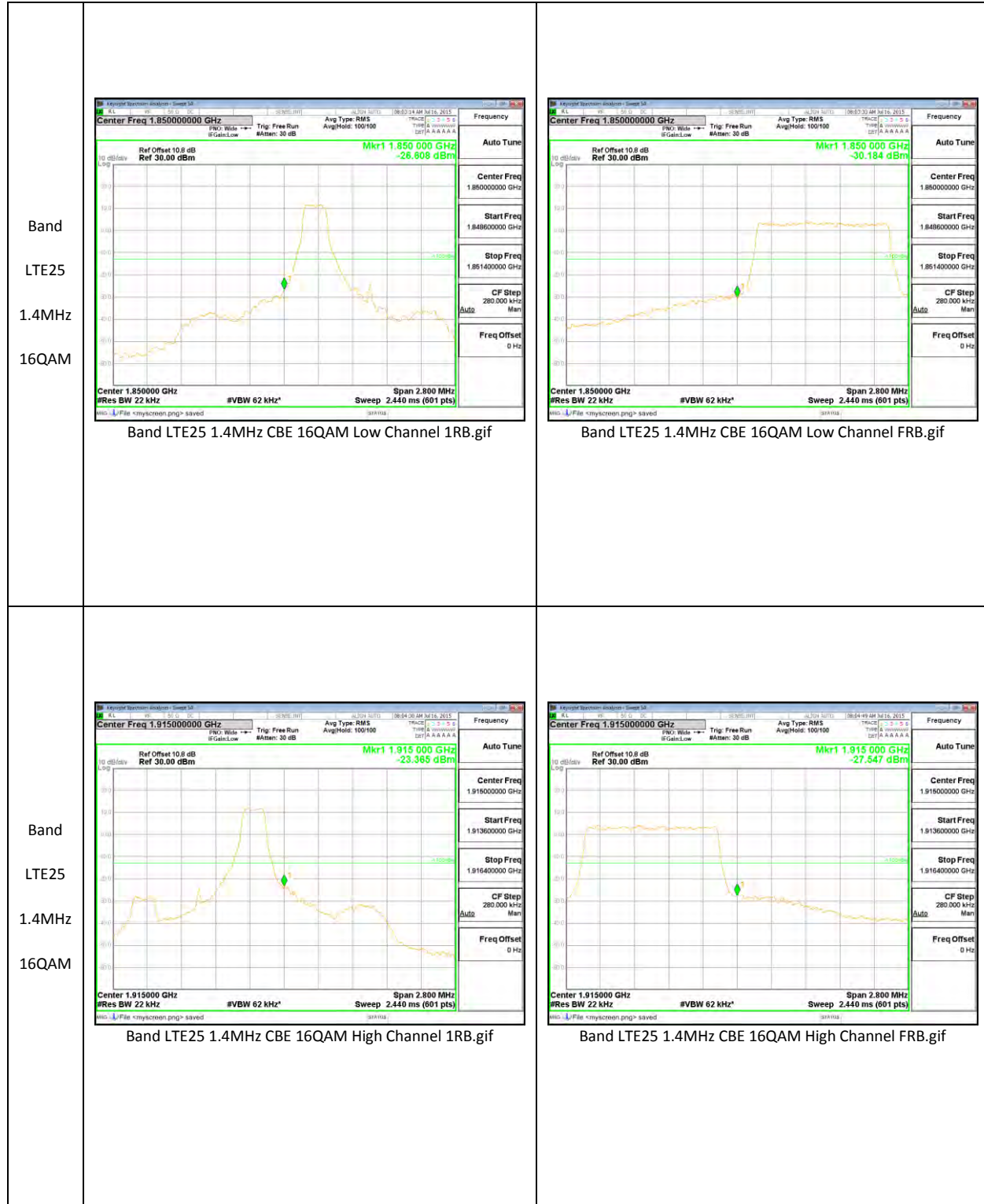



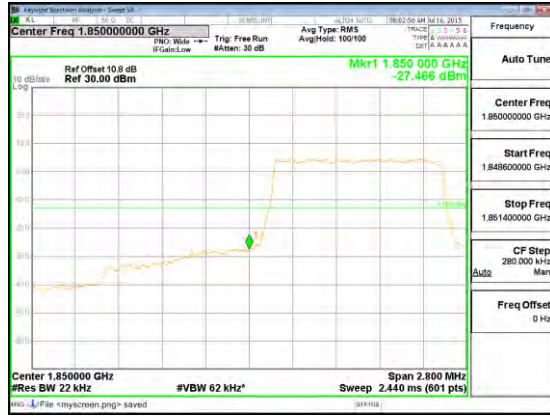






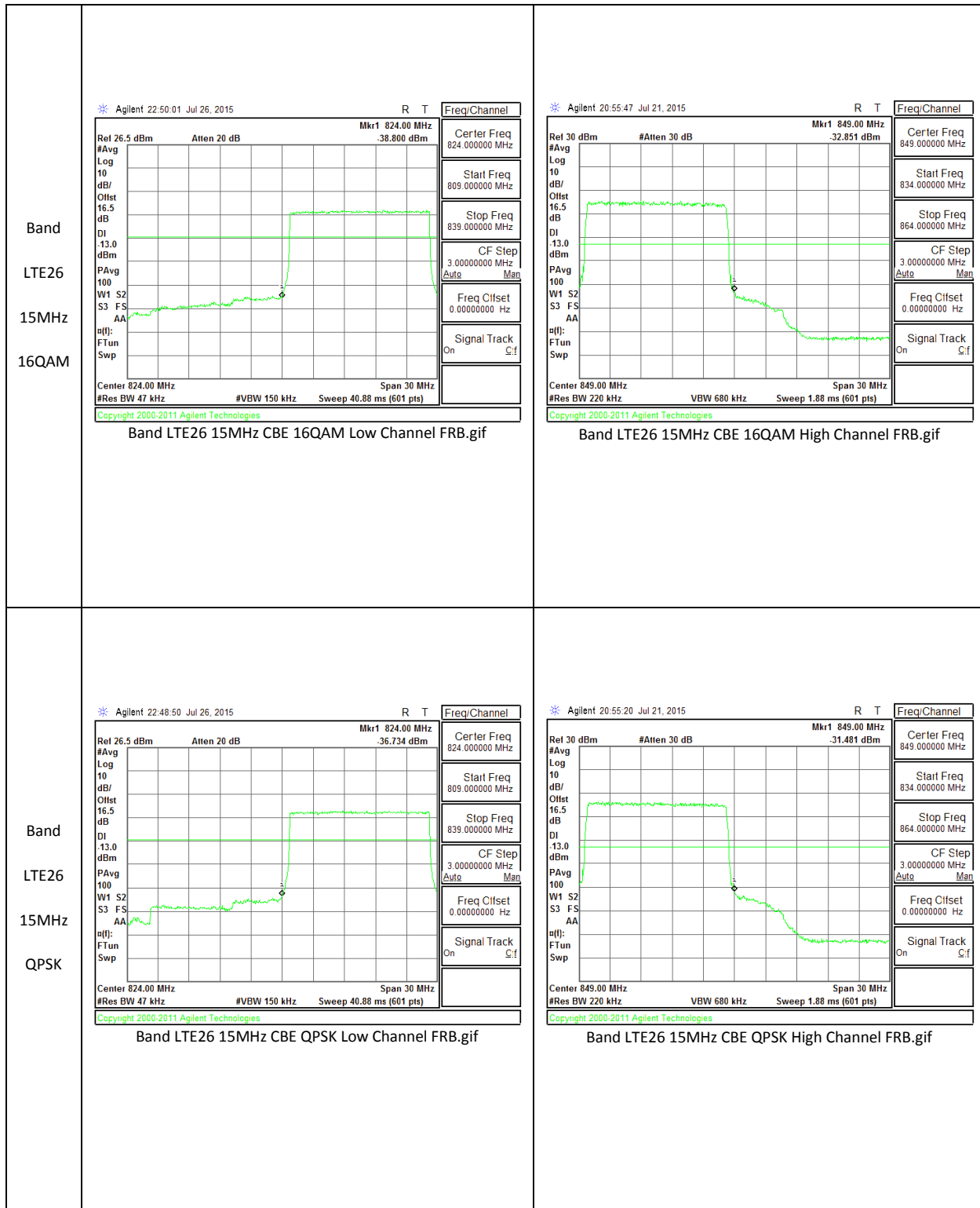


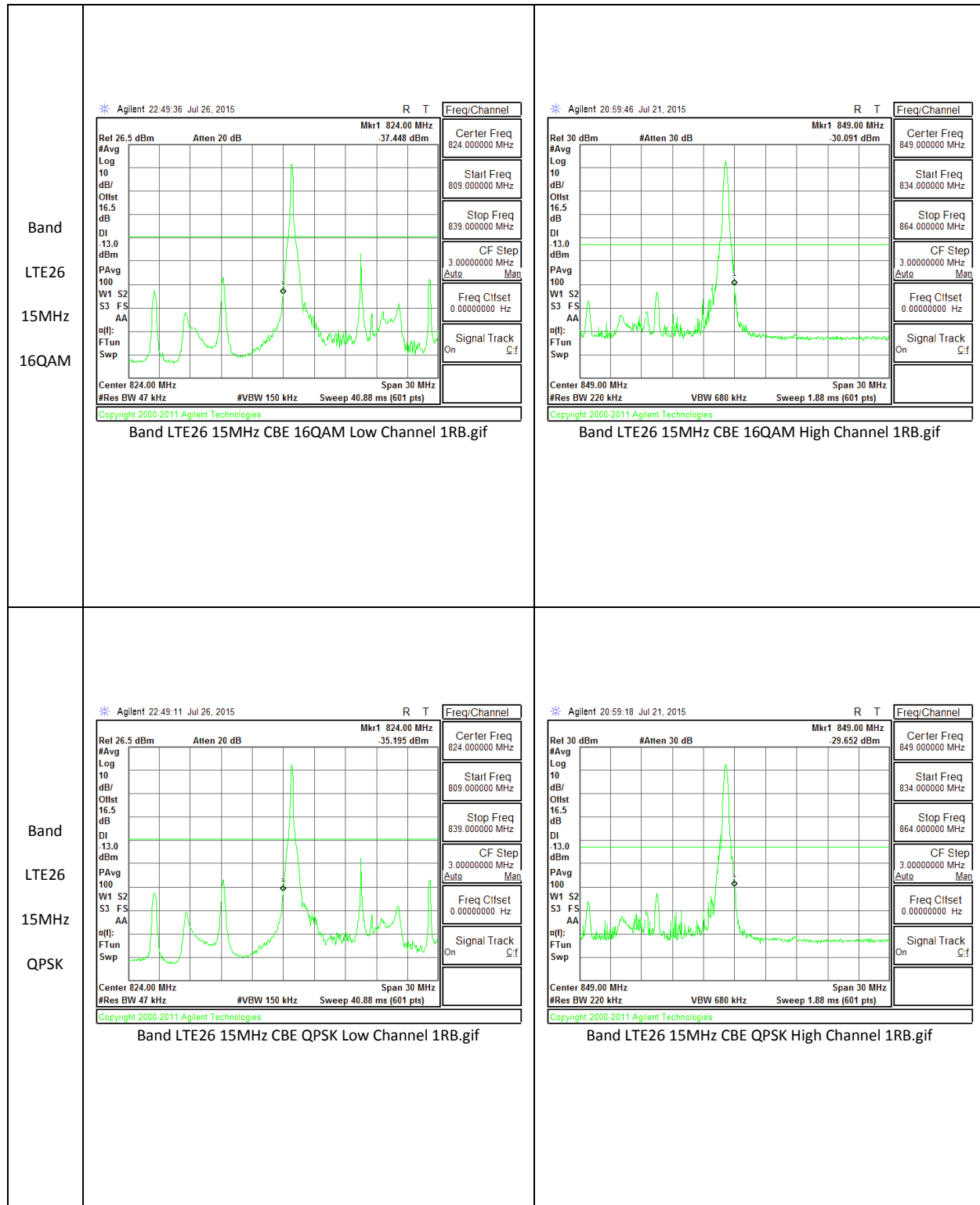


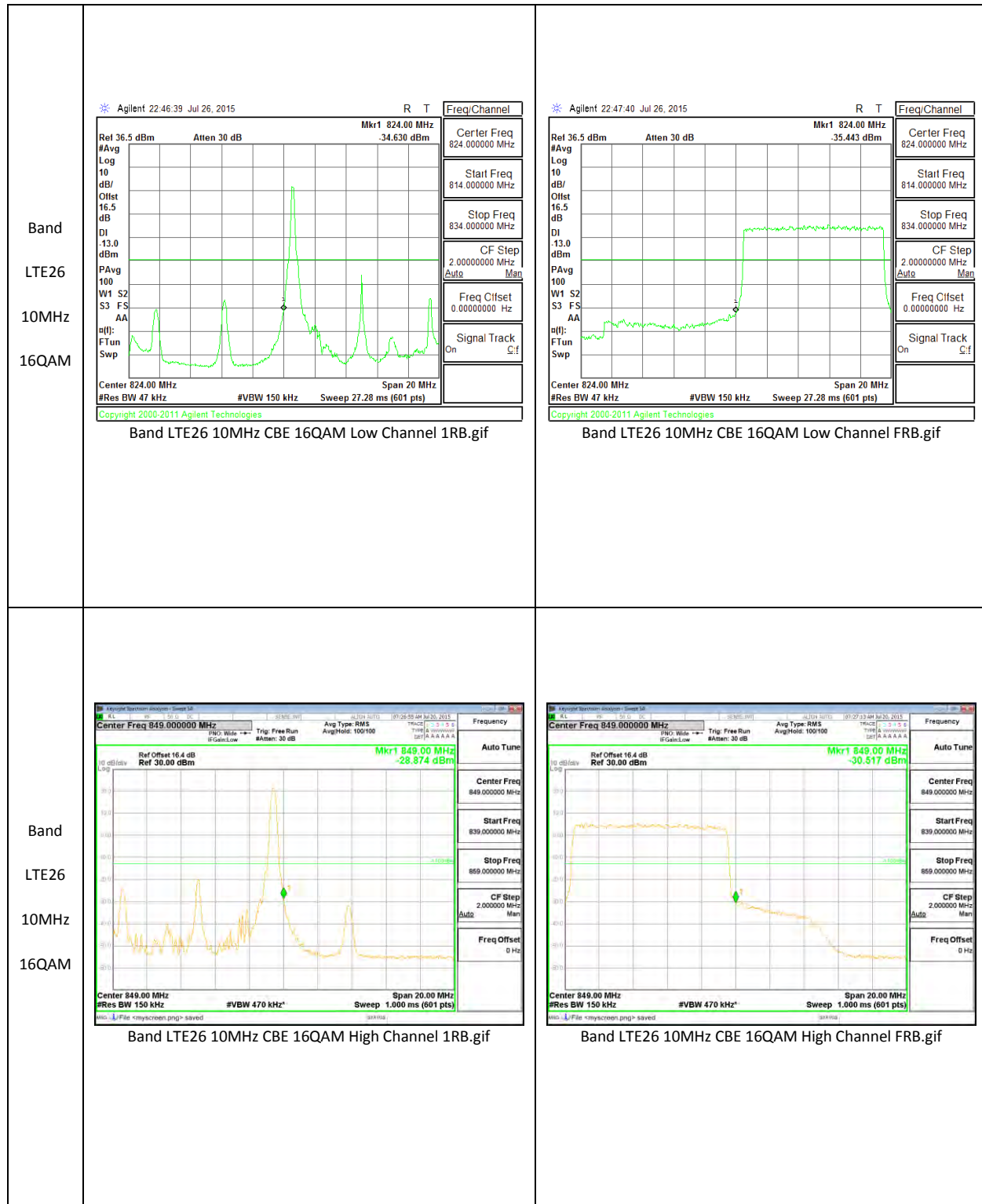


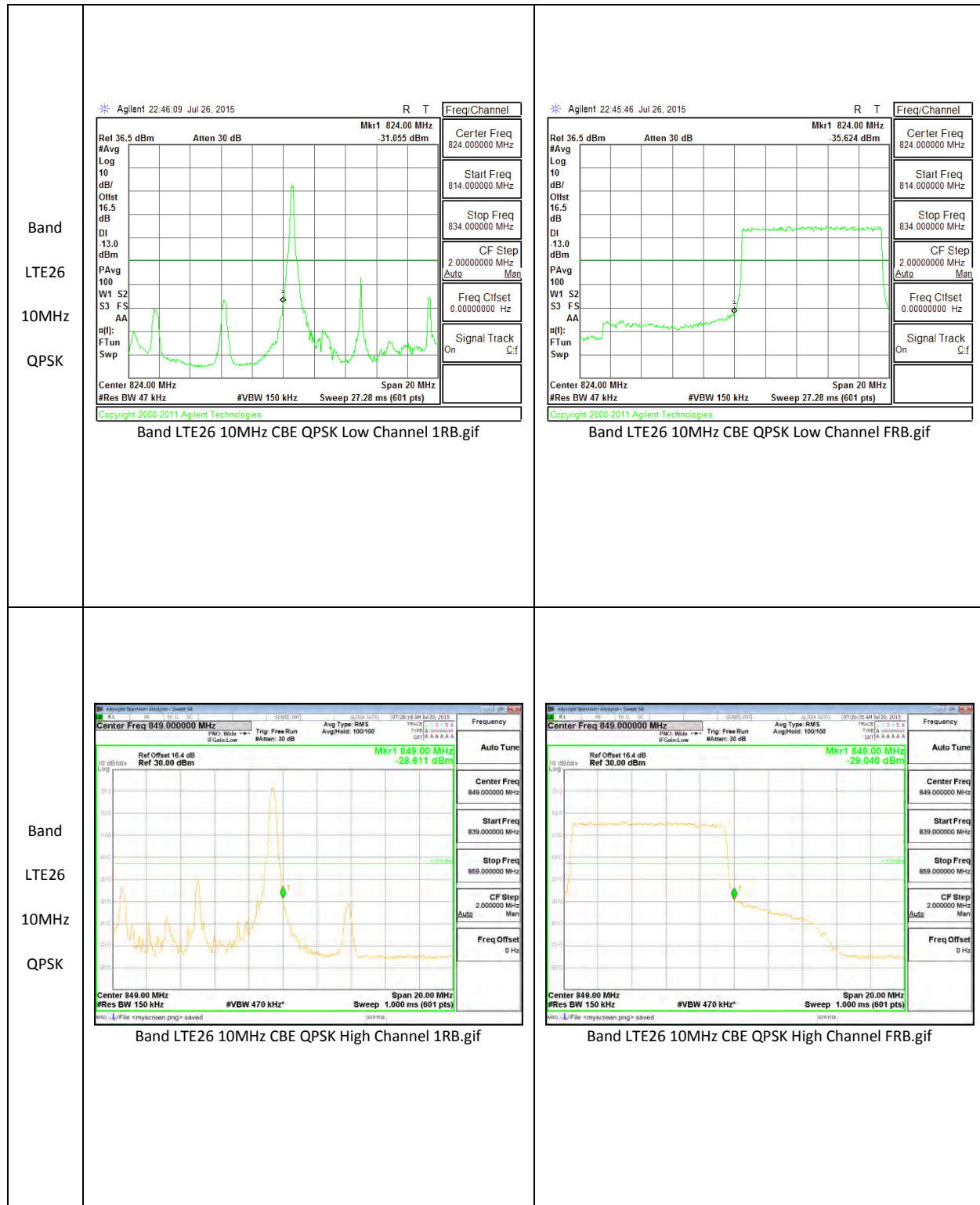
<p>Band LTE25 1.4MHz QPSK</p>	 <p>Band LTE25 1.4MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Band LTE25 1.4MHz CBE QPSK Low Channel FRB.gif</p>
<p>Band LTE25 1.4MHz QPSK</p>	 <p>Band LTE25 1.4MHz CBE QPSK High Channel 1RB.gif</p>	 <p>Band LTE25 1.4MHz CBE QPSK High Channel FRB.gif</p>

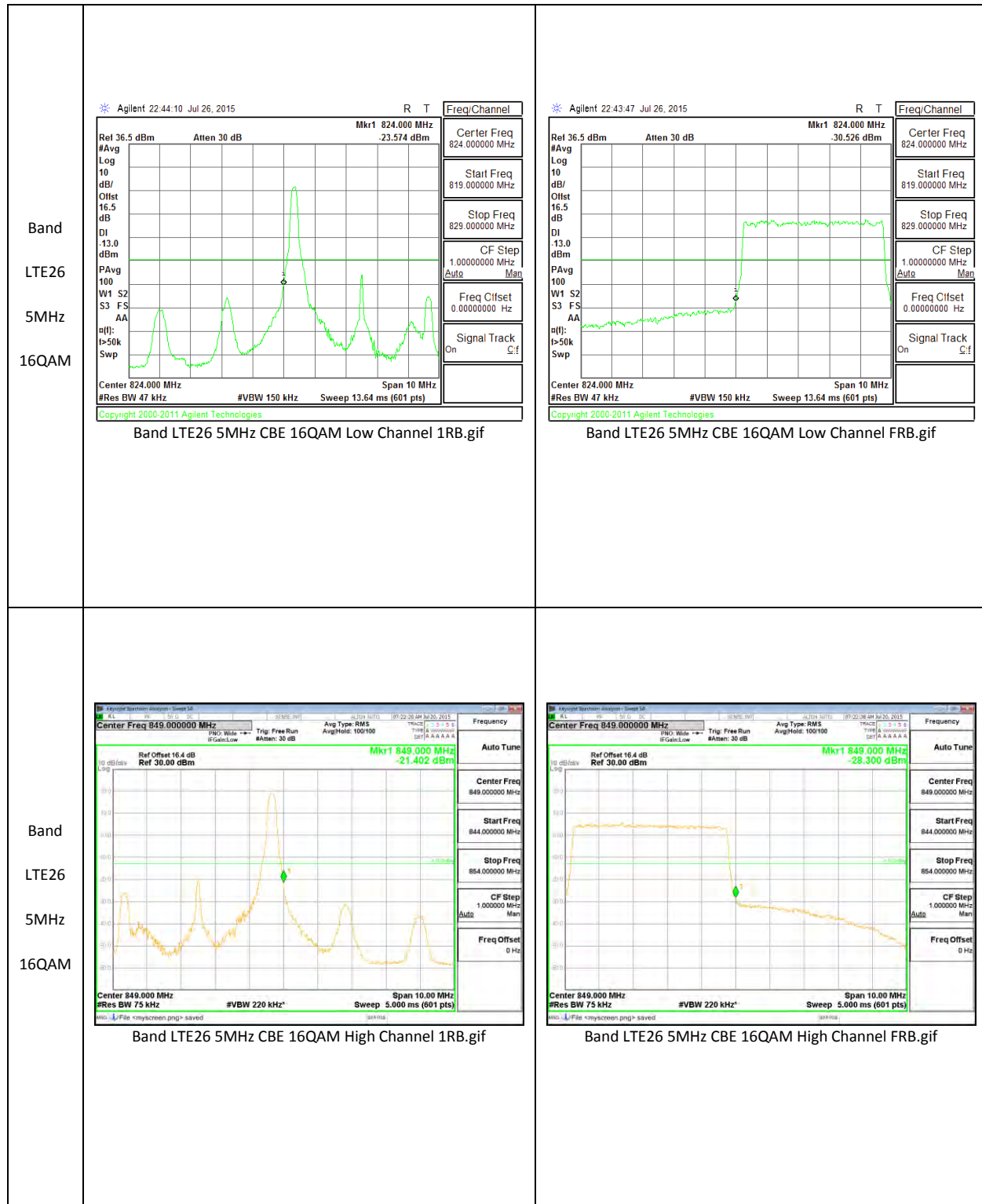
LTE Band 26

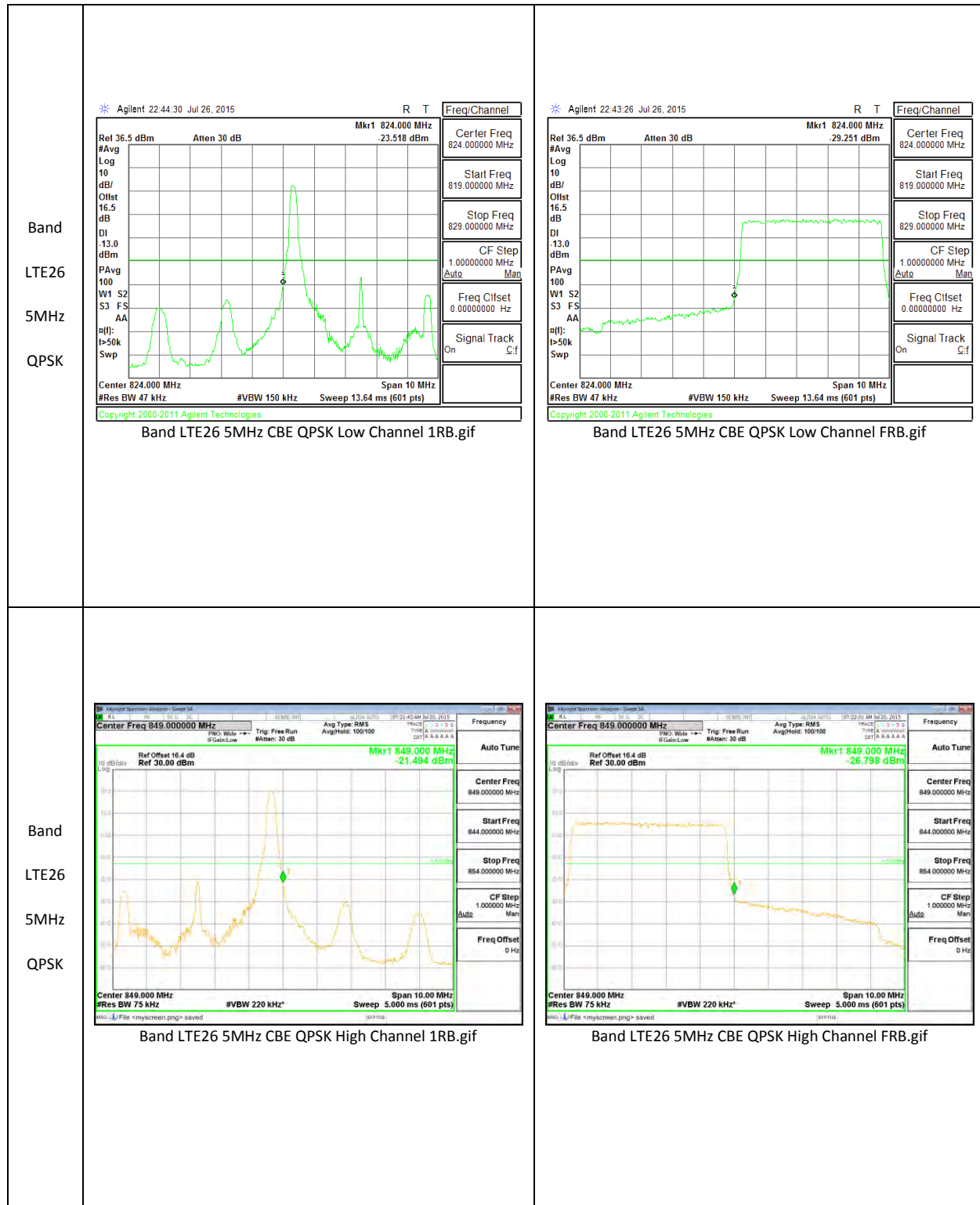


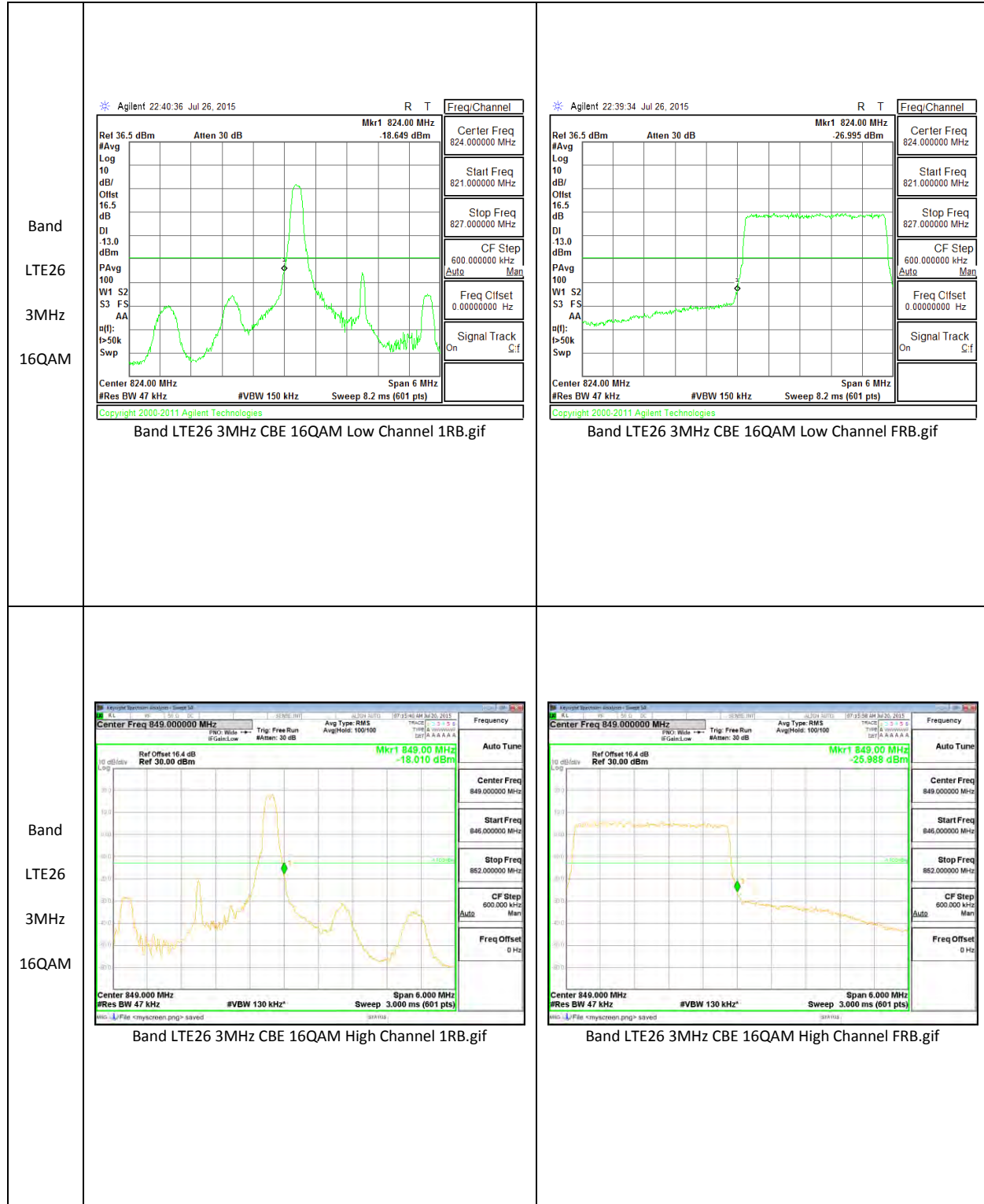


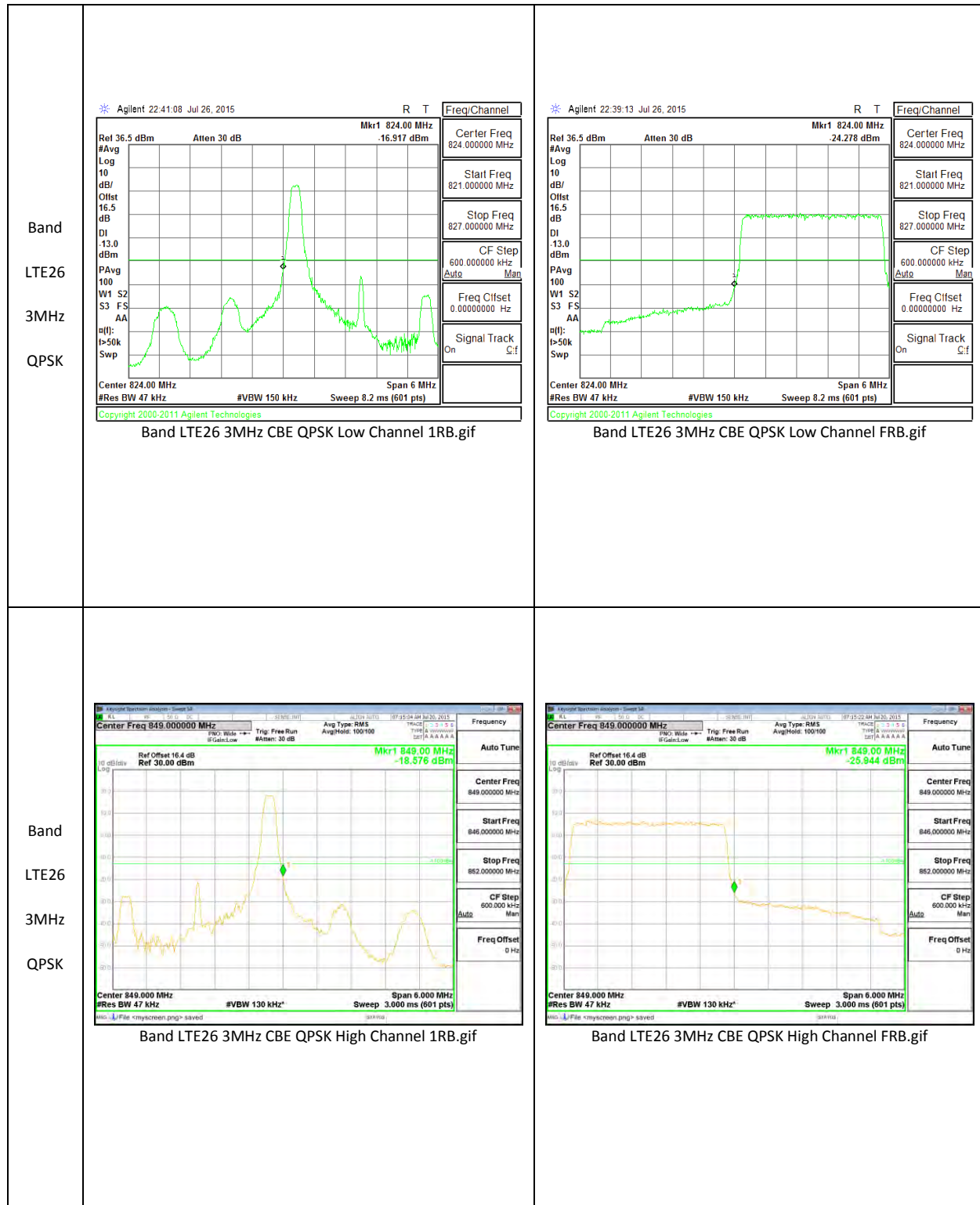


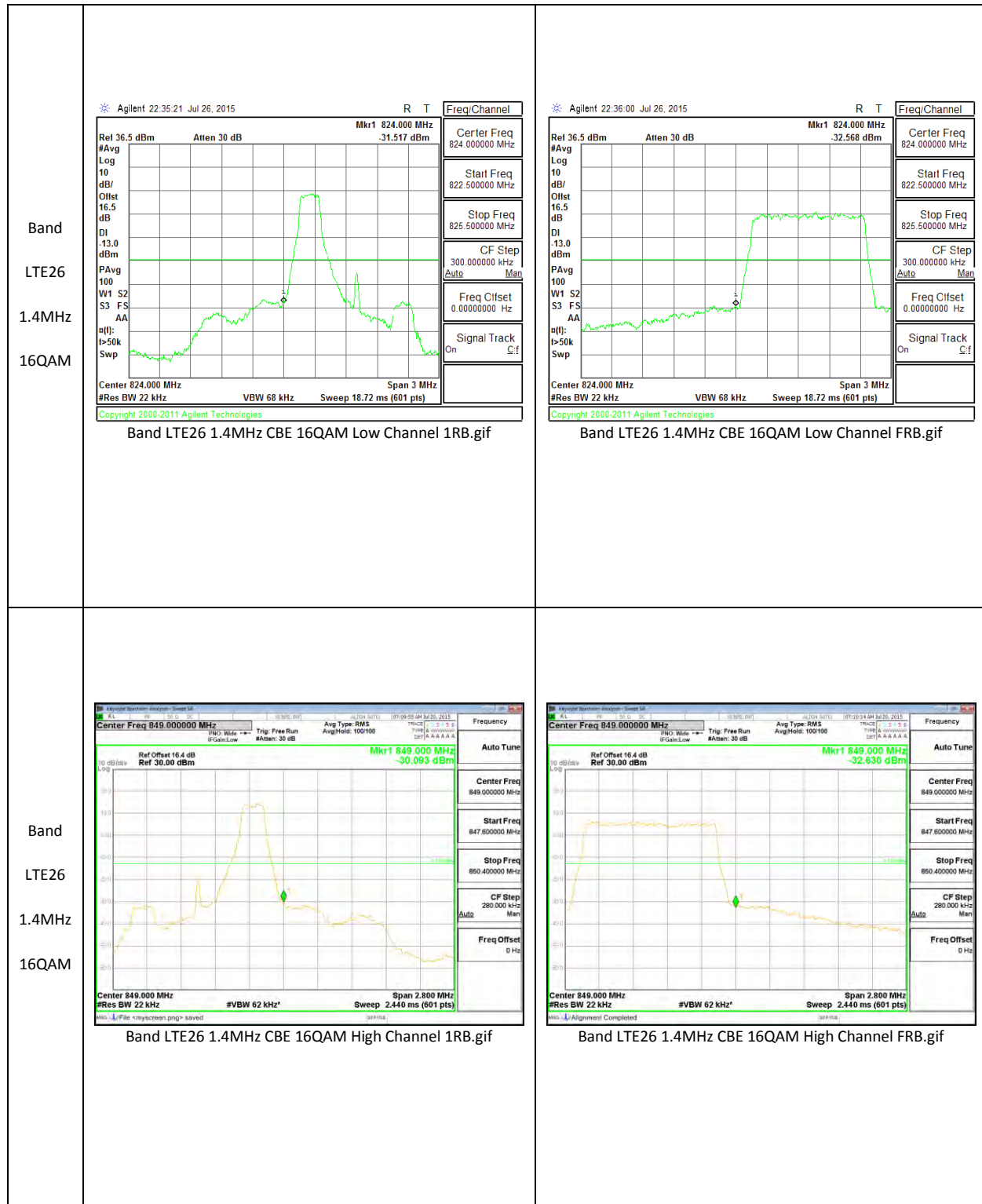








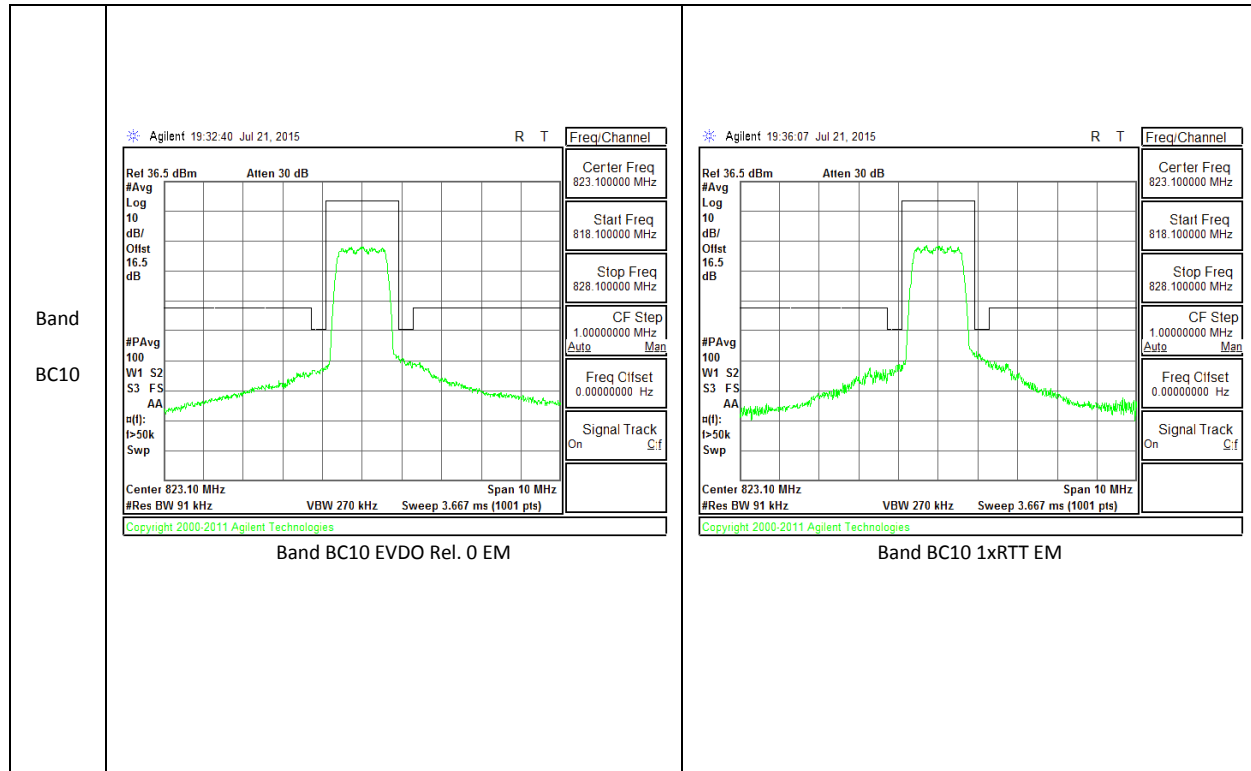






10.2.2. EMISSION MASK PLOTS

CDMA BC10



LTE Band 7

<p>Band LTE7 20MHz 16QAM</p>	<thead> <tr> <th>RMS Results</th> <th>Freq</th> <th>Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBm</th> <th>dBc</th> <th>Upper</th> <th>dBm</th> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>-69.02</td> <td>-46.69</td> <td>-75.69</td> <td>-53.36</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Carrier Power</td> <td>22.33 dBm / 14.50 MHz</td> <td>1.000 MHz</td> <td>-74.93</td> <td>-52.60</td> <td>-75.34</td> <td>-53.01</td> <td></td> <td></td> <td></td> </tr> </tbody>	RMS Results	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm	Carrier Power	12.00 MHz	1.000 MHz	-69.02	-46.69	-75.69	-53.36				Carrier Power	22.33 dBm / 14.50 MHz	1.000 MHz	-74.93	-52.60	-75.34	-53.01			
RMS Results	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm																						
Carrier Power	12.00 MHz	1.000 MHz	-69.02	-46.69	-75.69	-53.36																									
Carrier Power	22.33 dBm / 14.50 MHz	1.000 MHz	-74.93	-52.60	-75.34	-53.01																									

 | RMS Results | Freq | Offset | Ref BW | dBc | Lower | dBm | dBc | Upper | dBm | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Carrier Power | 12.00 MHz | 1.000 MHz | -50.77 | -28.85 | -50.89 | -28.97 | | | | | Carrier Power | 21.92 dBm / 14.50 MHz | 1.000 MHz | -51.91 | -29.99 | -49.69 | -27.77 | | | | || Band LTE7 20MHz QPSK | | RMS Results | Freq | Offset | Ref BW | dBc | Lower | dBm | dBc | Upper | dBm | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Carrier Power | 12.00 MHz | 1.000 MHz | -65.58 | -41.71 | -78.58 | -54.71 | | | | | Carrier Power | 23.87 dBm / 14.50 MHz | 1.000 MHz | -74.83 | -50.96 | -78.06 | -54.18 | | | | | | RMS Results | Freq | Offset | Ref BW | dBc | Lower | dBm | dBc | Upper | dBm | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Carrier Power | 12.00 MHz | 1.000 MHz | -50.90 | -28.99 | -52.99 | -30.47 | | | | | Carrier Power | 21.92 dBm / 14.50 MHz | 1.000 MHz | -54.25 | -32.33 | -51.88 | -29.96 | | | | |

