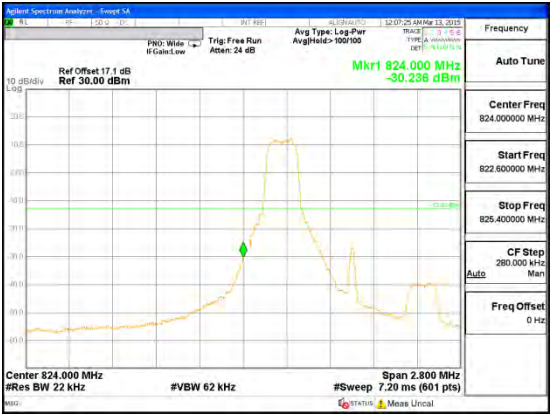
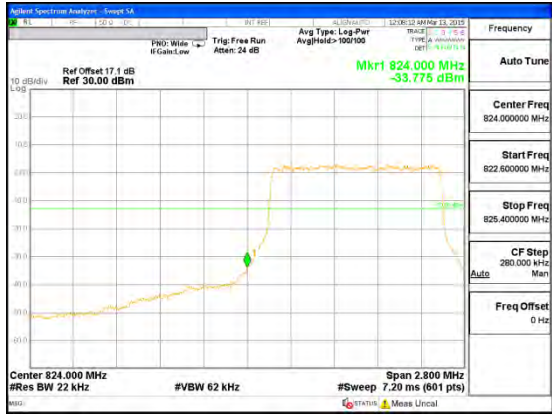
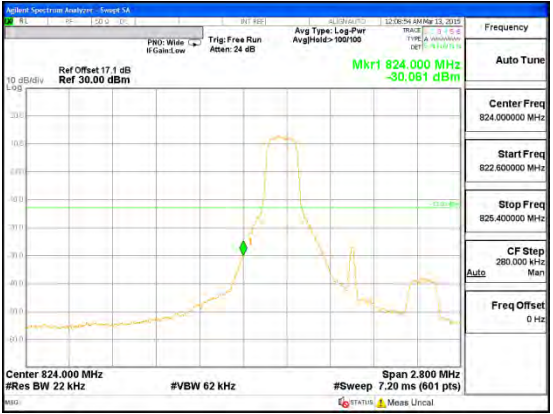
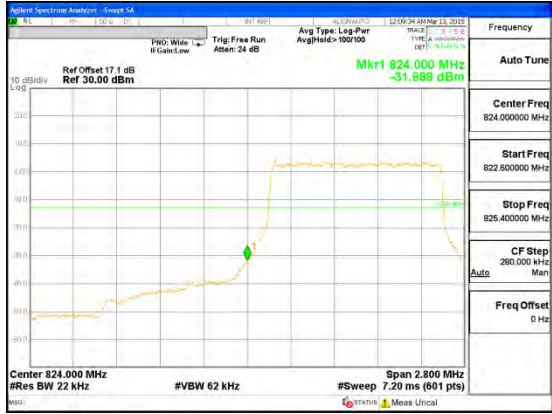
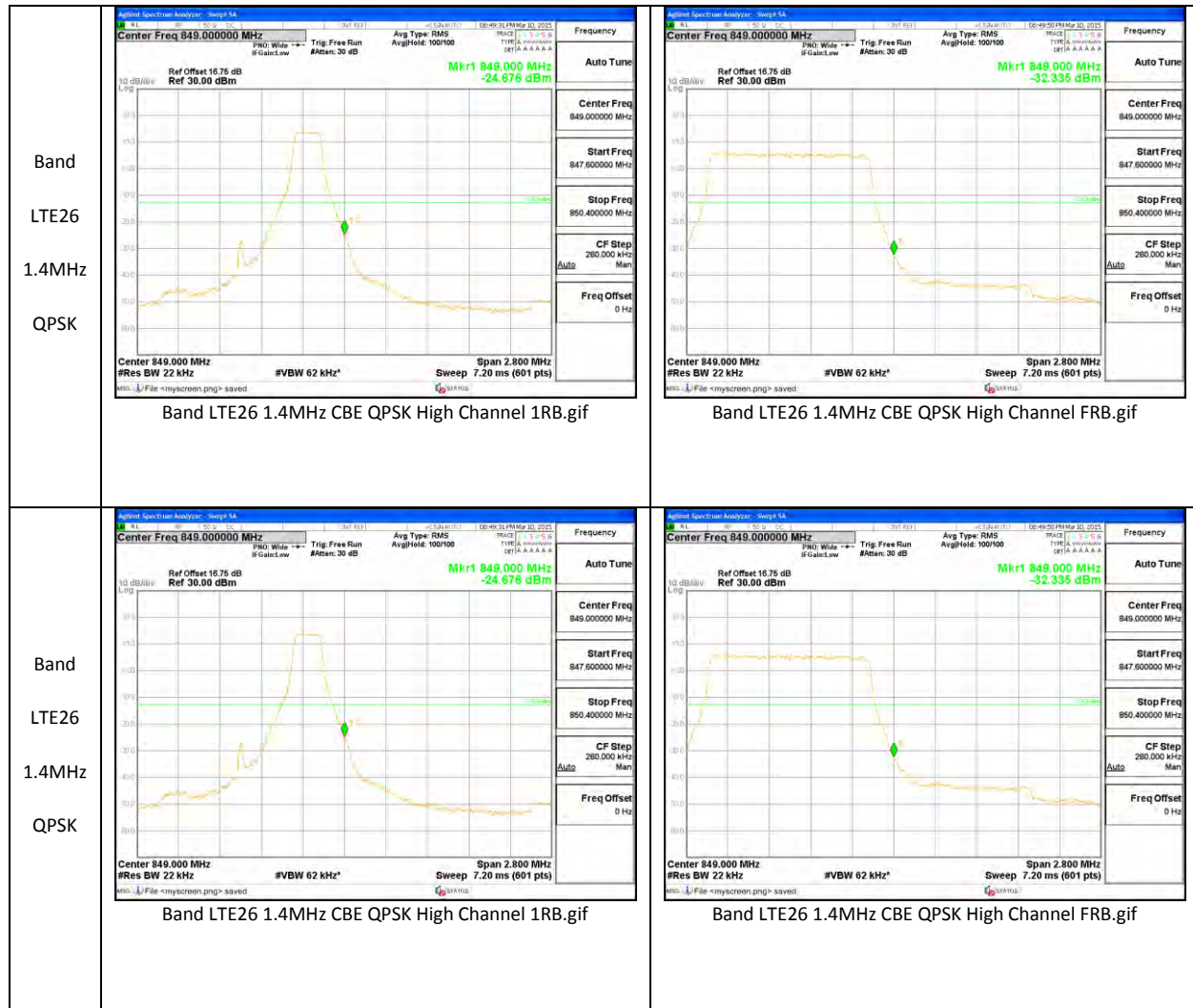
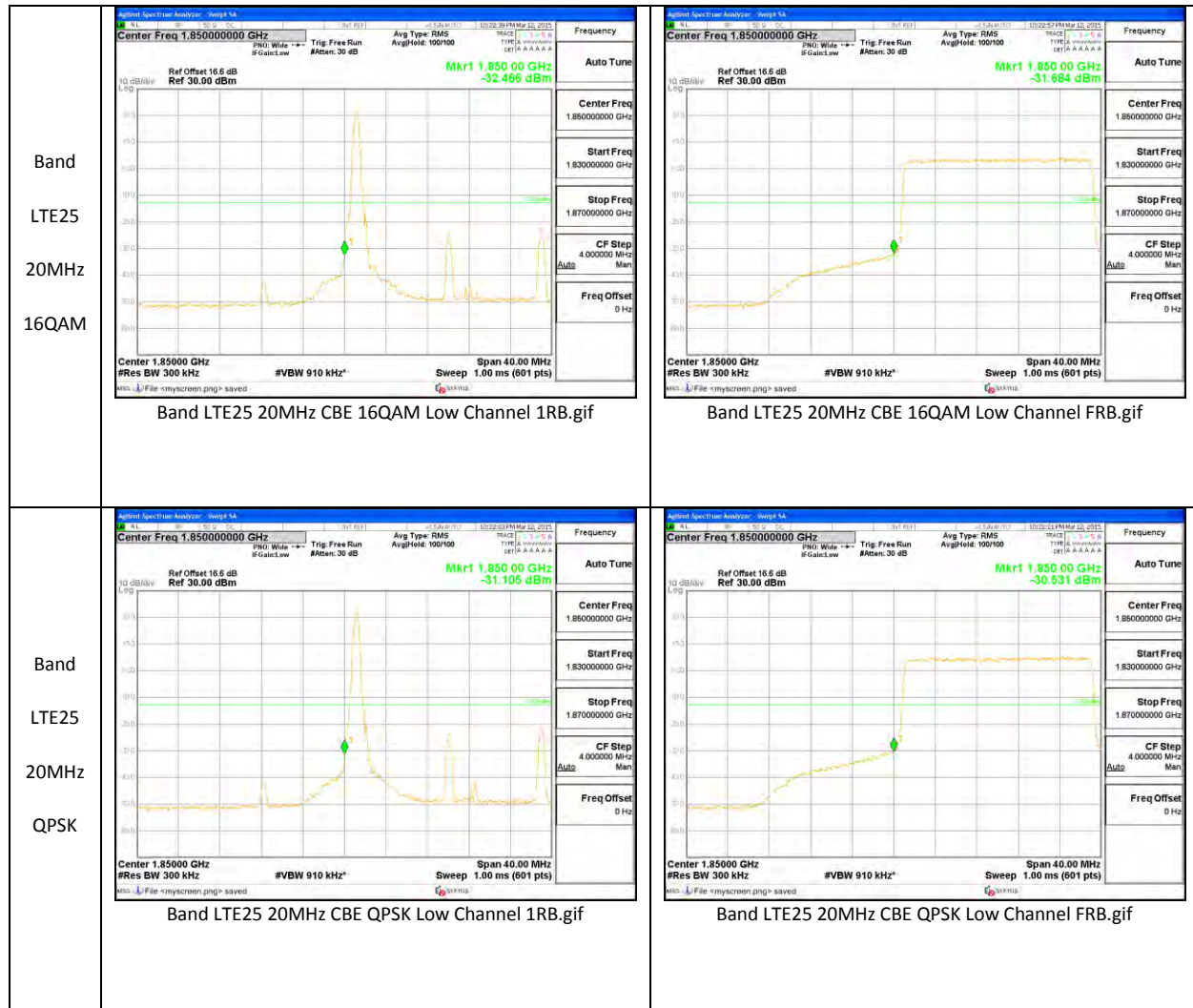


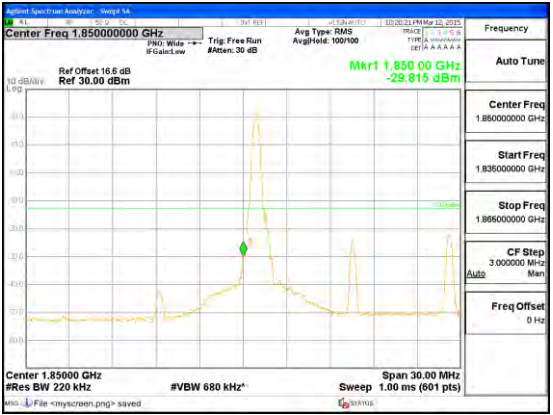
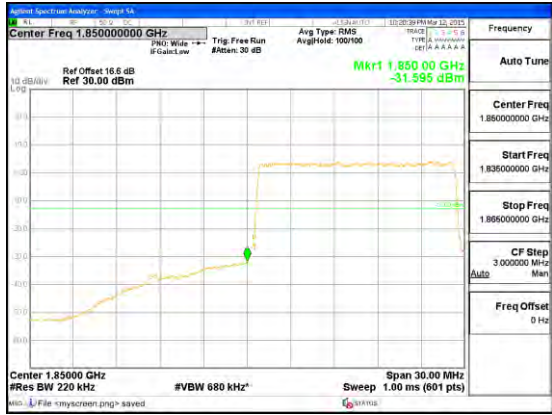
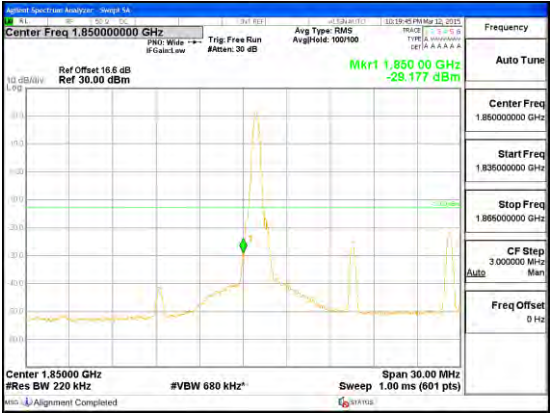
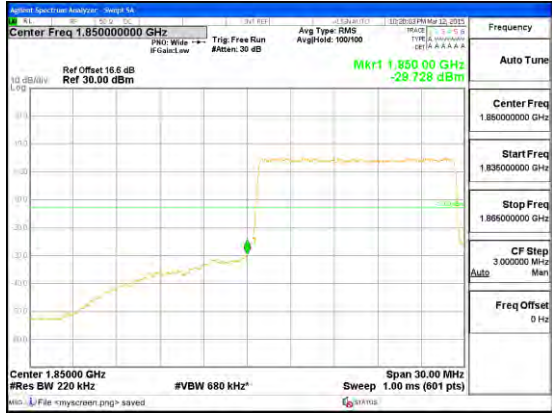
<p>Band                  LTE26                  1.4MHz                  16QAM</p>	 <p>Band LTE26 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band                  LTE26                  1.4MHz                  QPSK</p>	 <p>Band LTE26 1.4MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Band LTE26 1.4MHz CBE QPSK Low Channel FRB.gif</p>

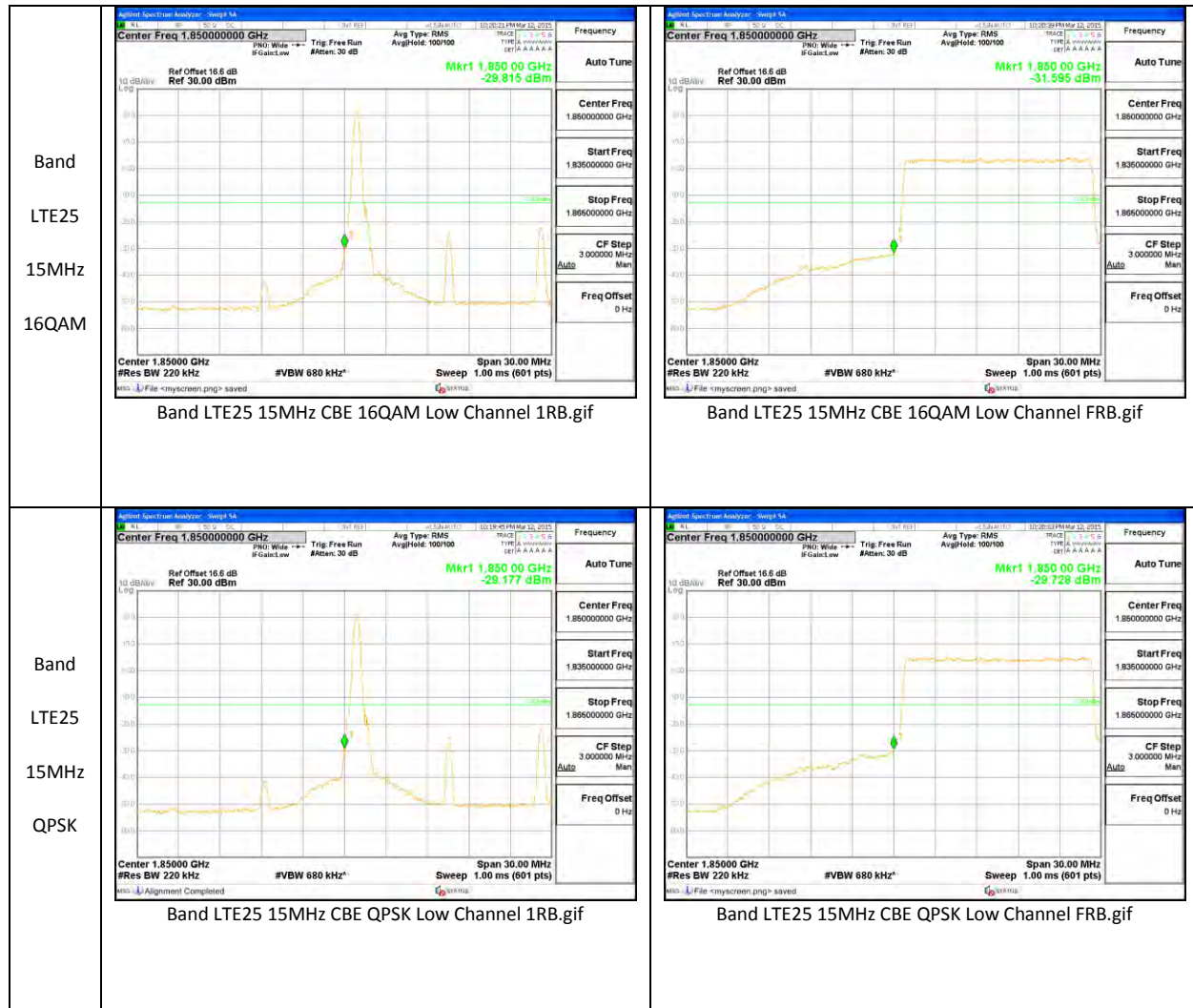


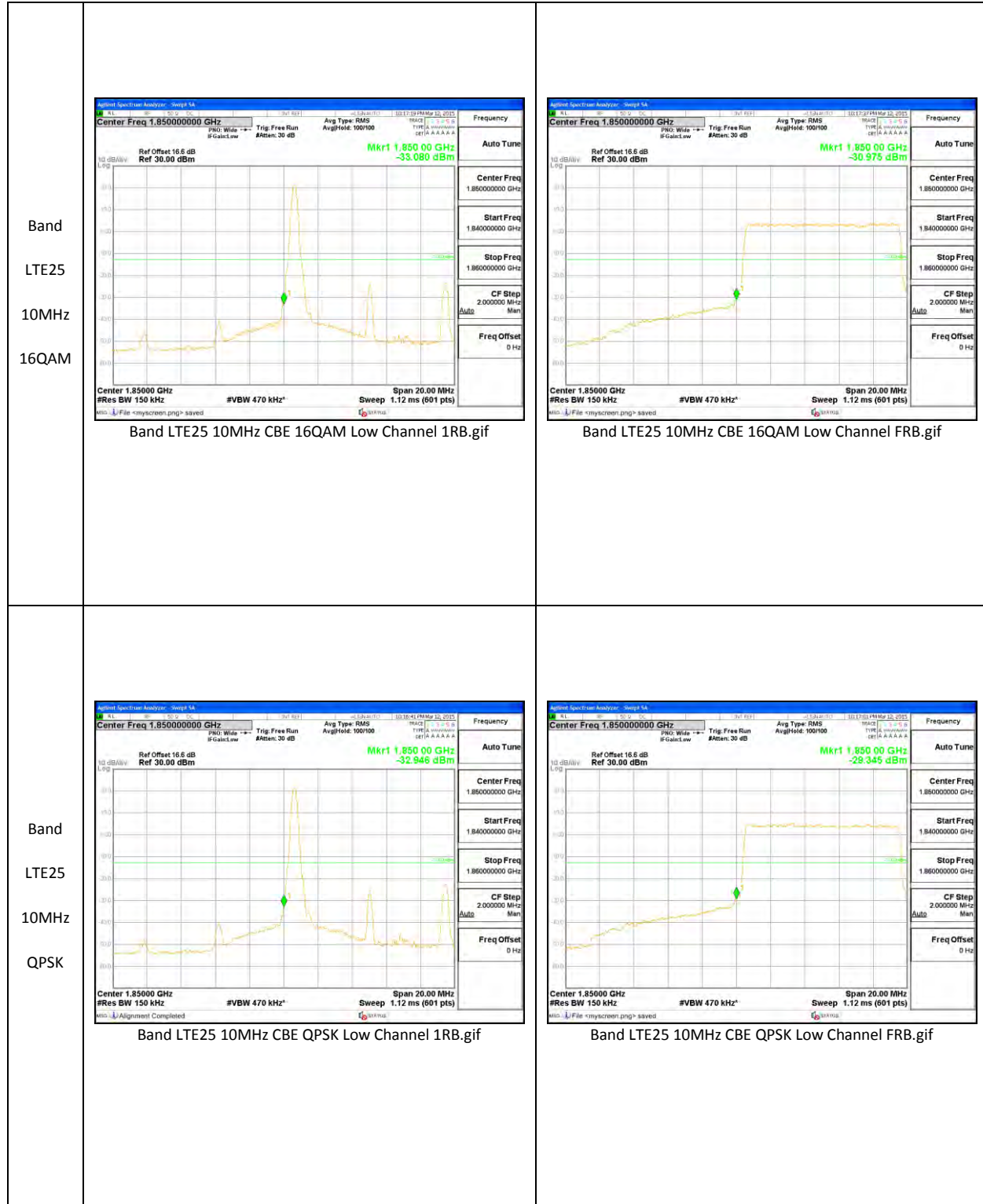
**LTE Band 25**

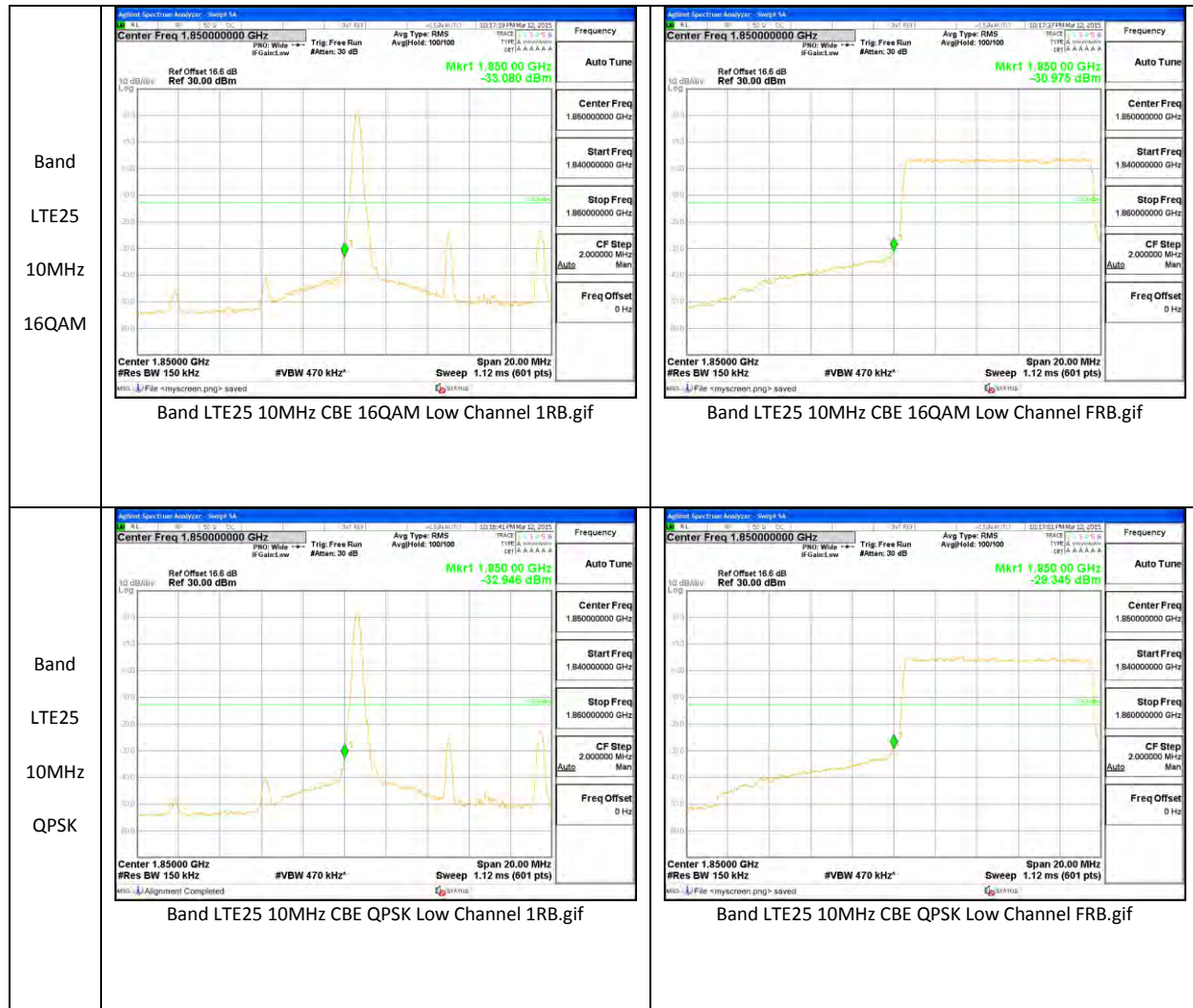
<p>Band LTE25 20MHz 16QAM</p>	<p>Band LTE25 20MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Band LTE25 20MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE25 20MHz QPSK</p>	<p>Band LTE25 20MHz CBE QPSK Low Channel 1RB.gif</p>	<p>Band LTE25 20MHz CBE QPSK Low Channel FRB.gif</p>



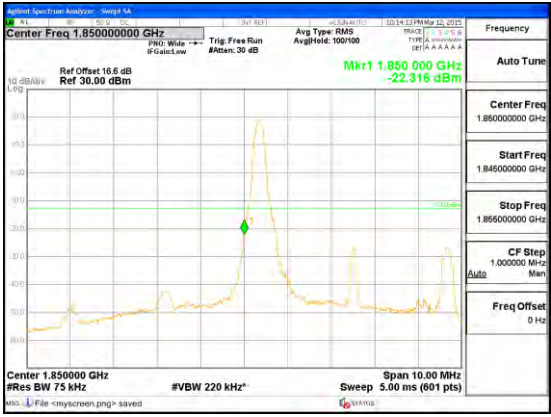
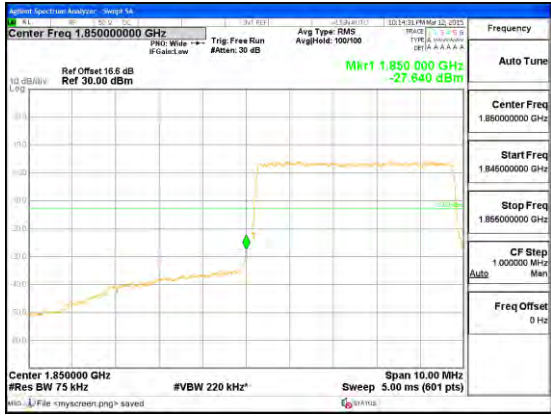
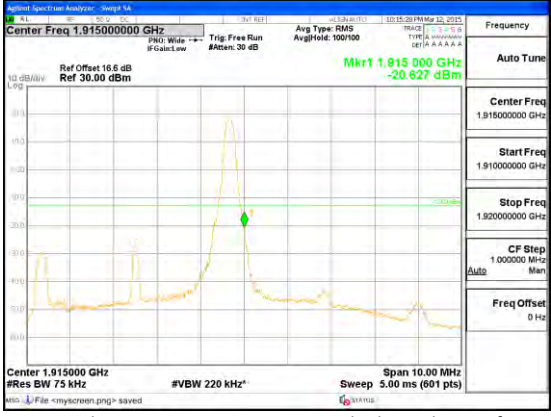
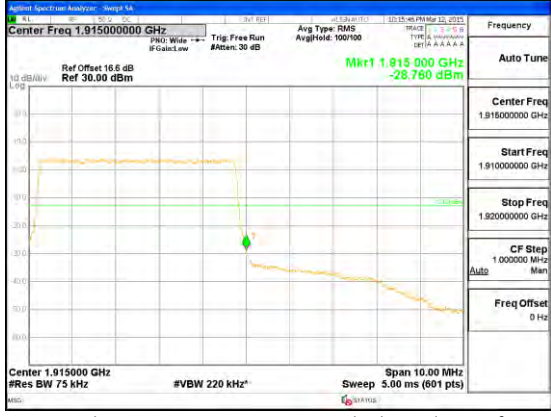
<p>Band LTE25 15MHz 16QAM</p>	 <p>Band LTE25 15MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE25 15MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE25 15MHz QPSK</p>	 <p>Band LTE25 15MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Band LTE25 15MHz CBE QPSK Low Channel FRB.gif</p>

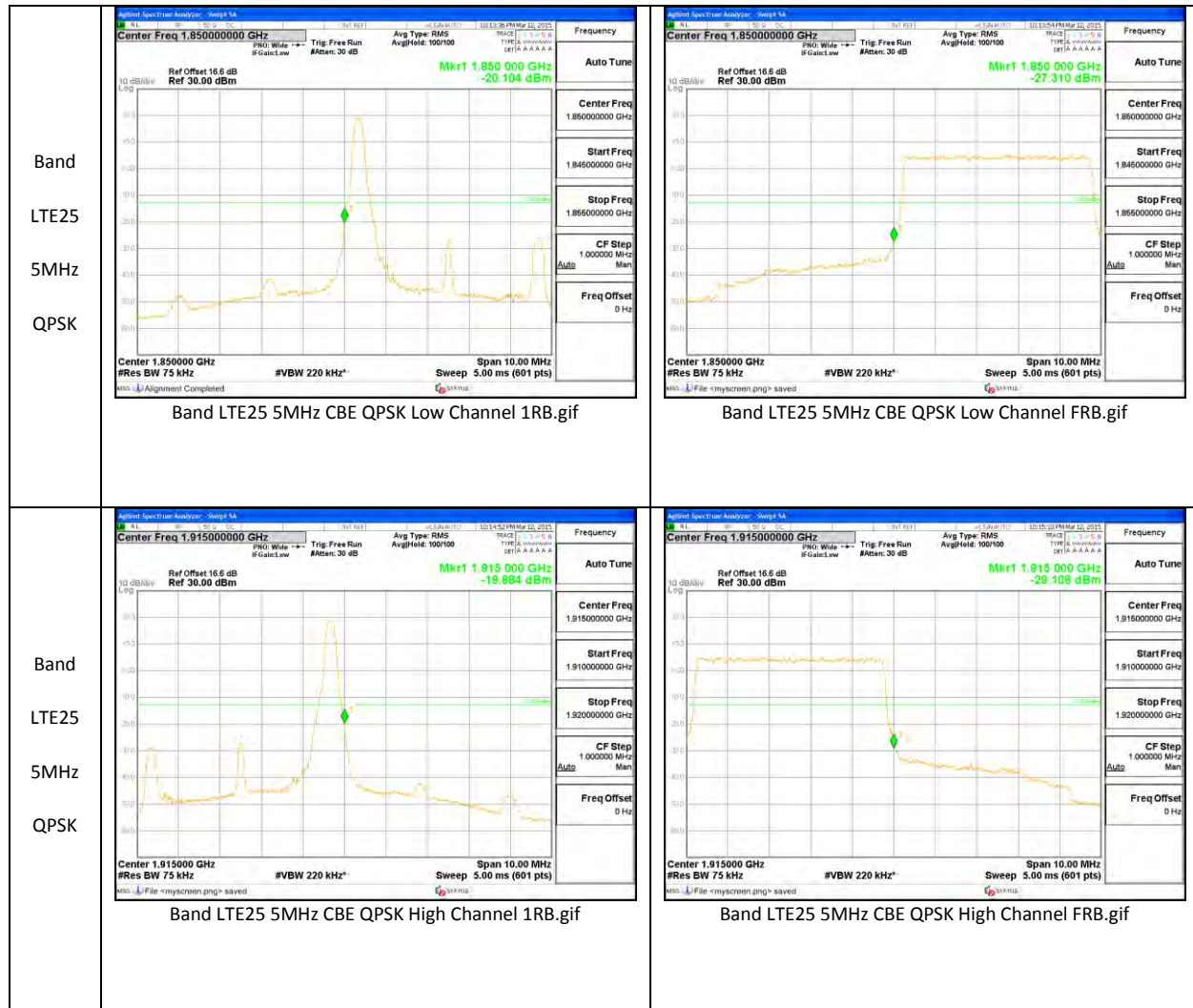


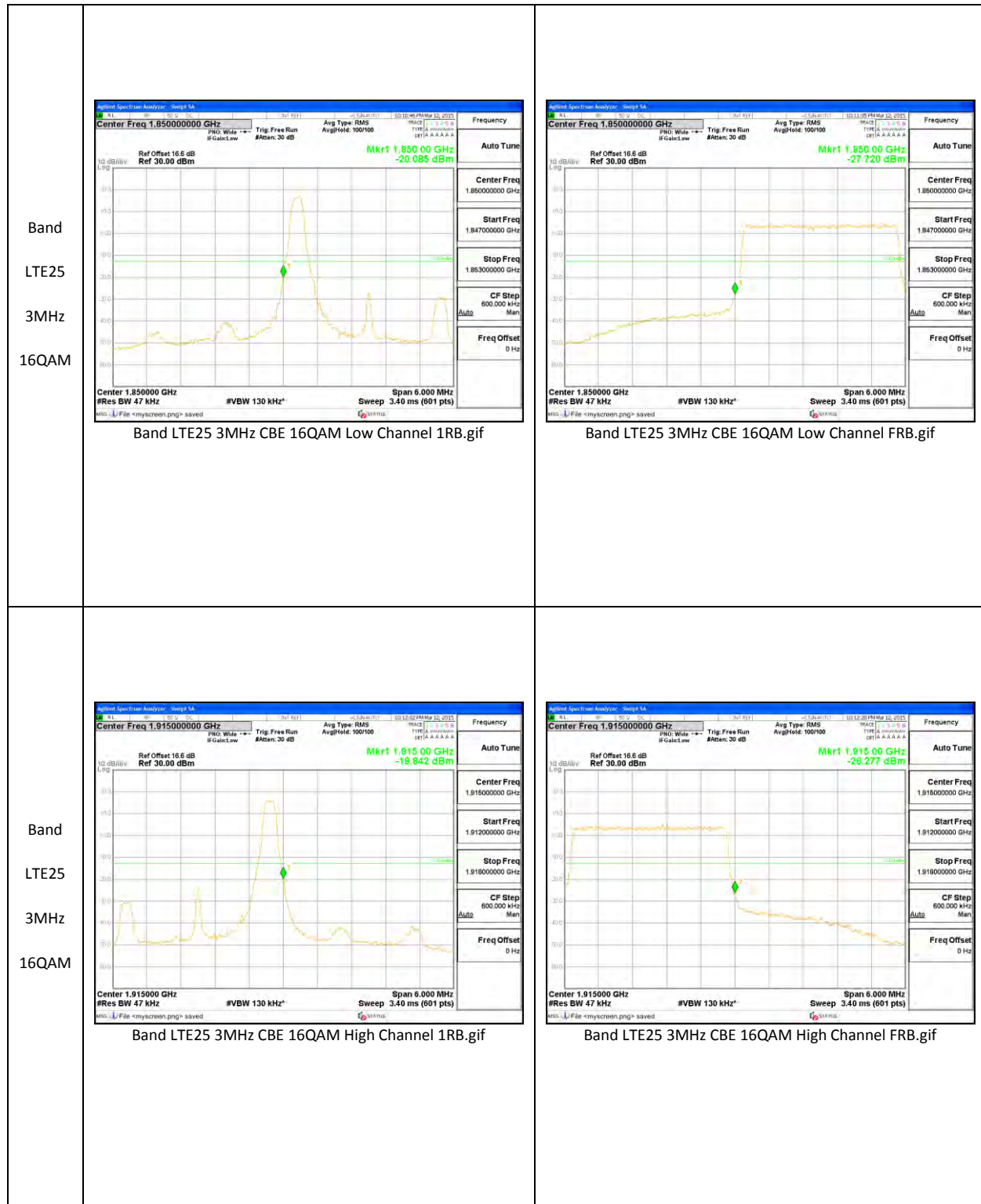


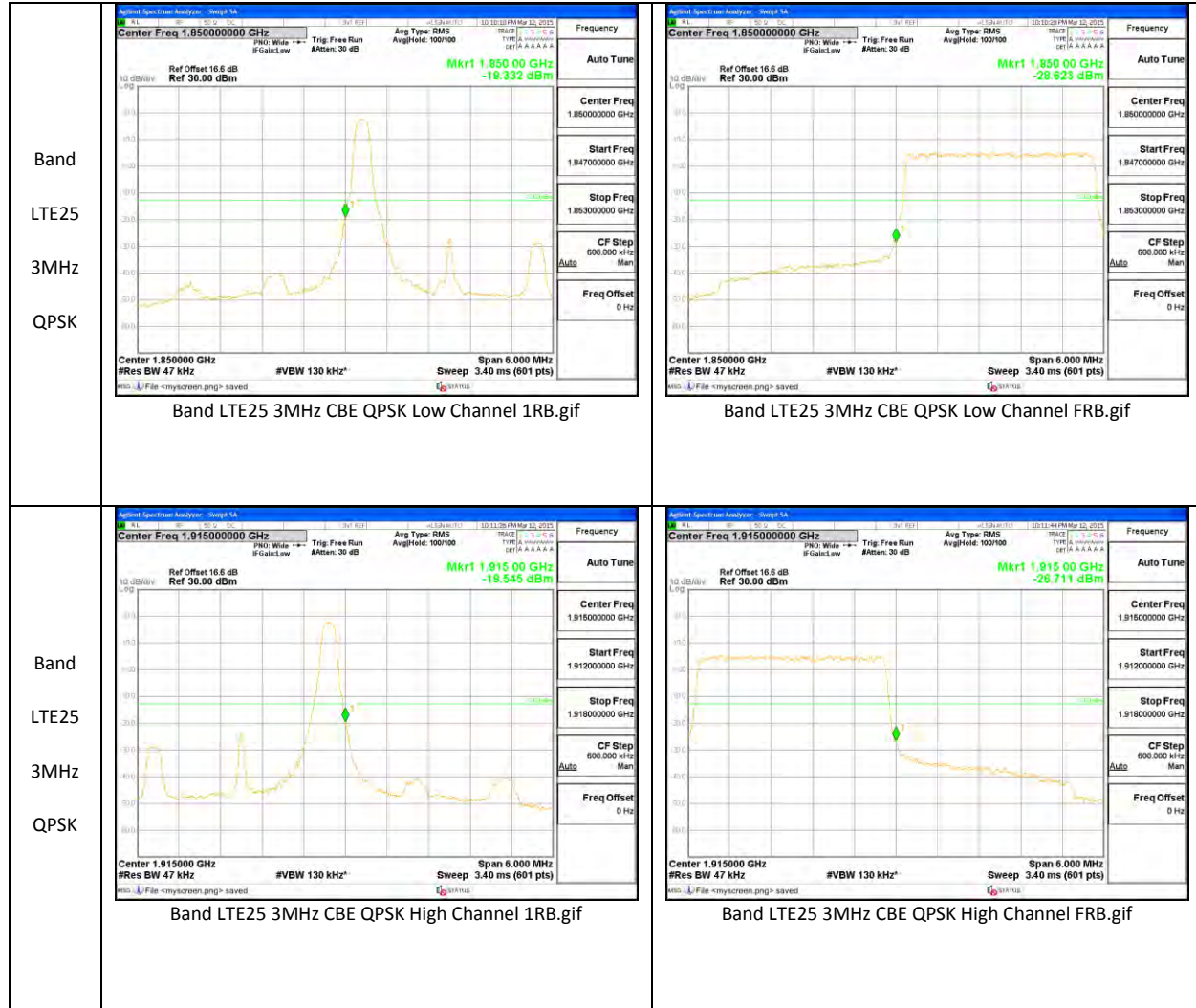


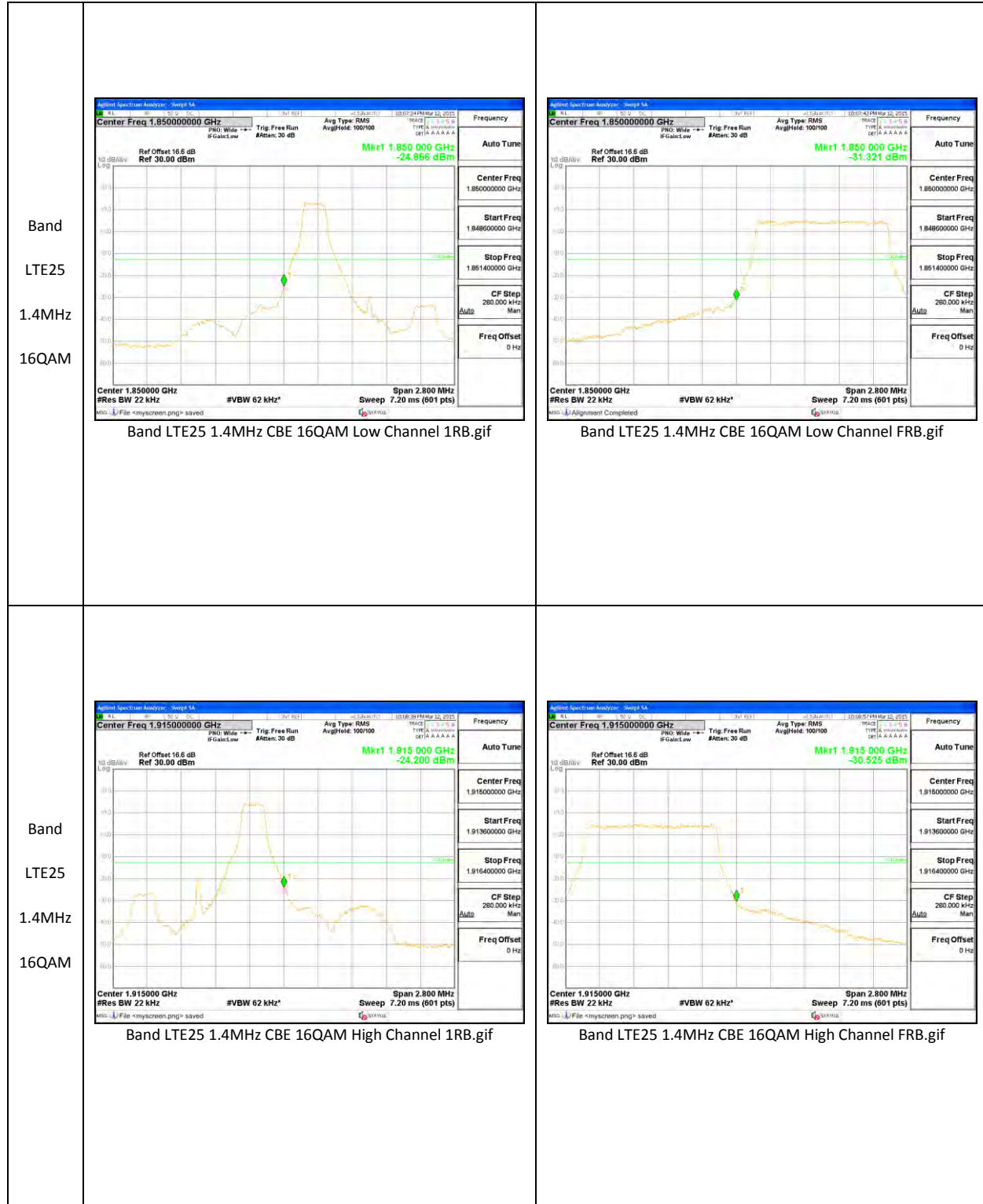


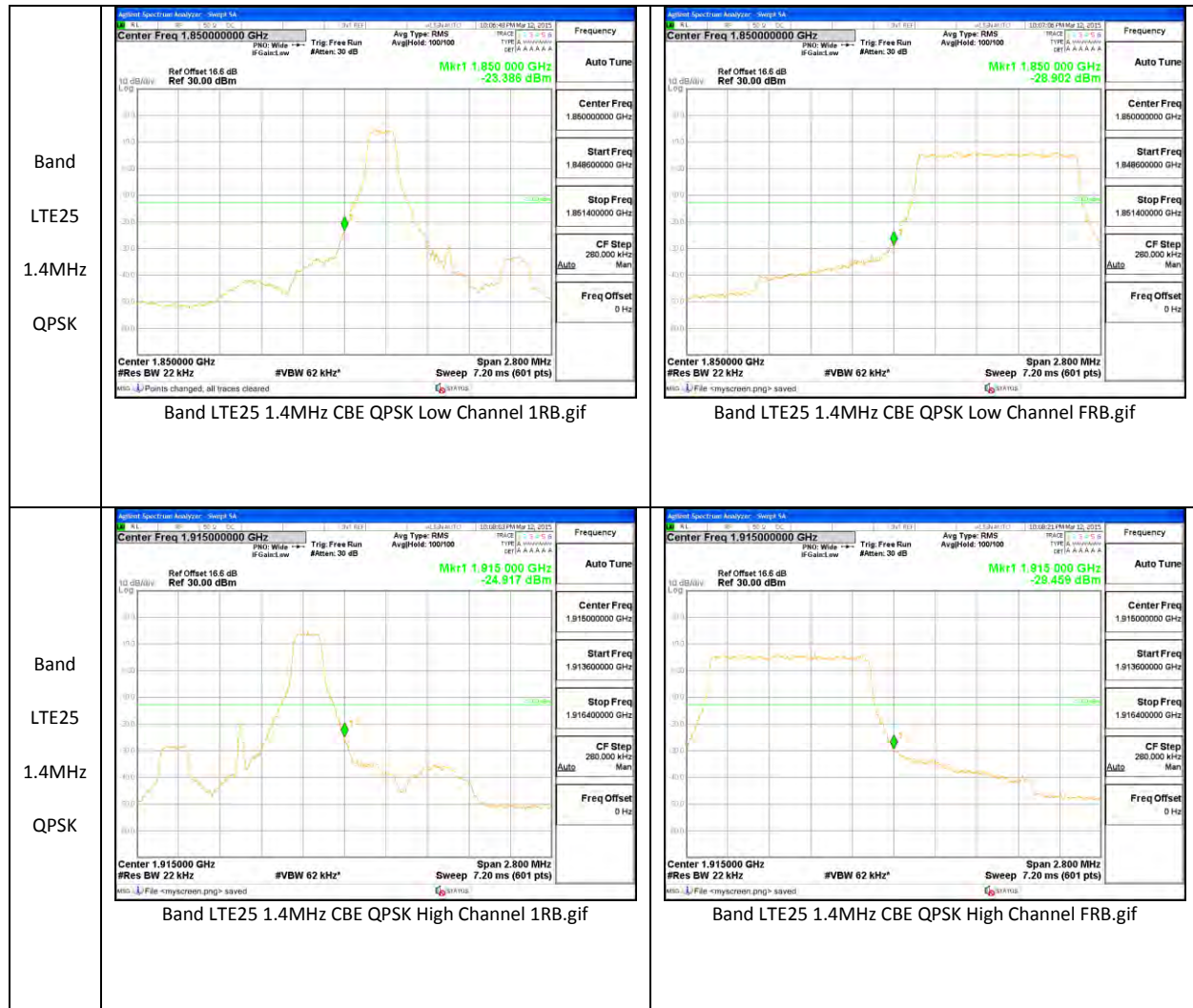
<p>Band LTE25 5MHz 16QAM</p>	 <p>Band LTE25 5MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE25 5MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE25 5MHz 16QAM</p>	 <p>Band LTE25 5MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE25 5MHz CBE 16QAM High Channel FRB.gif</p>



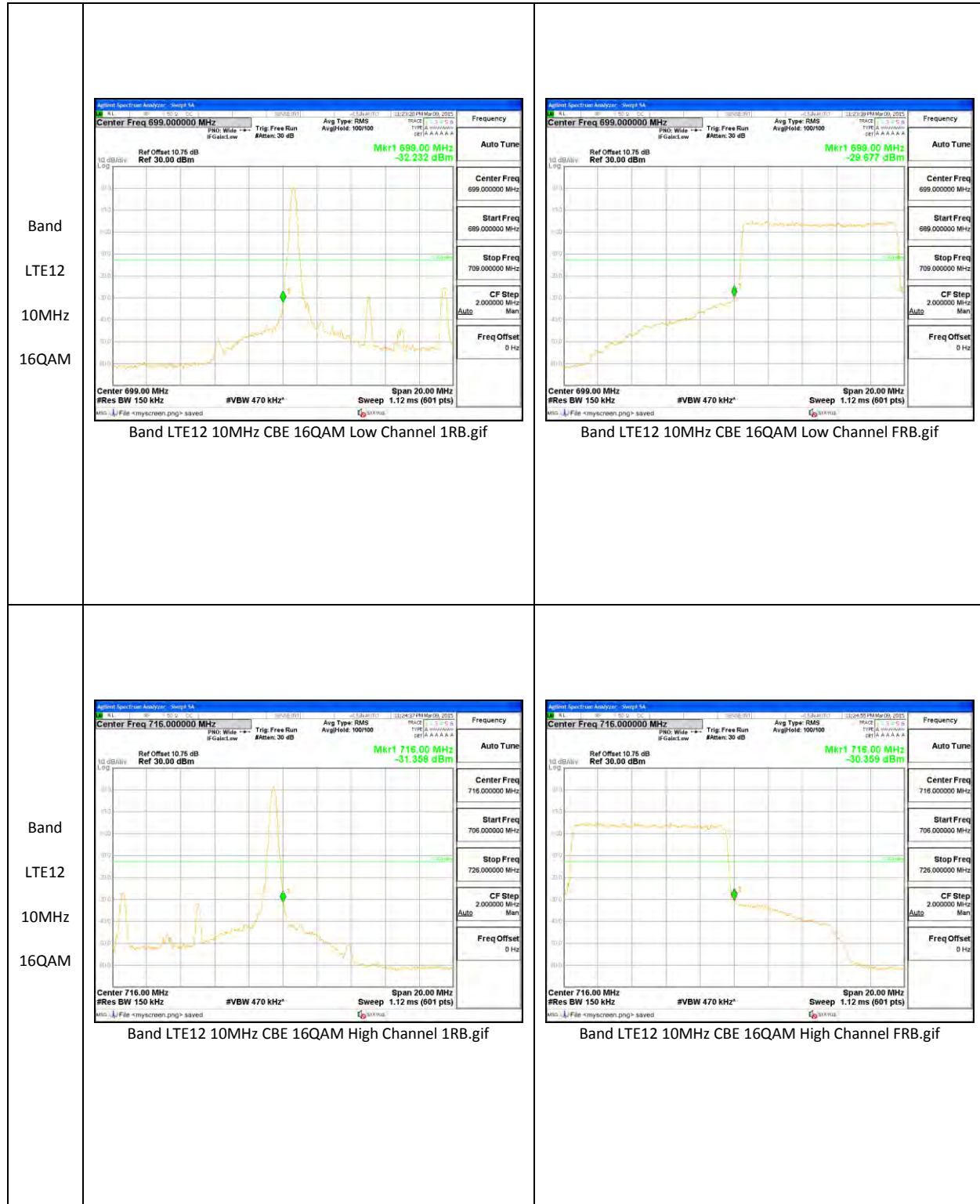


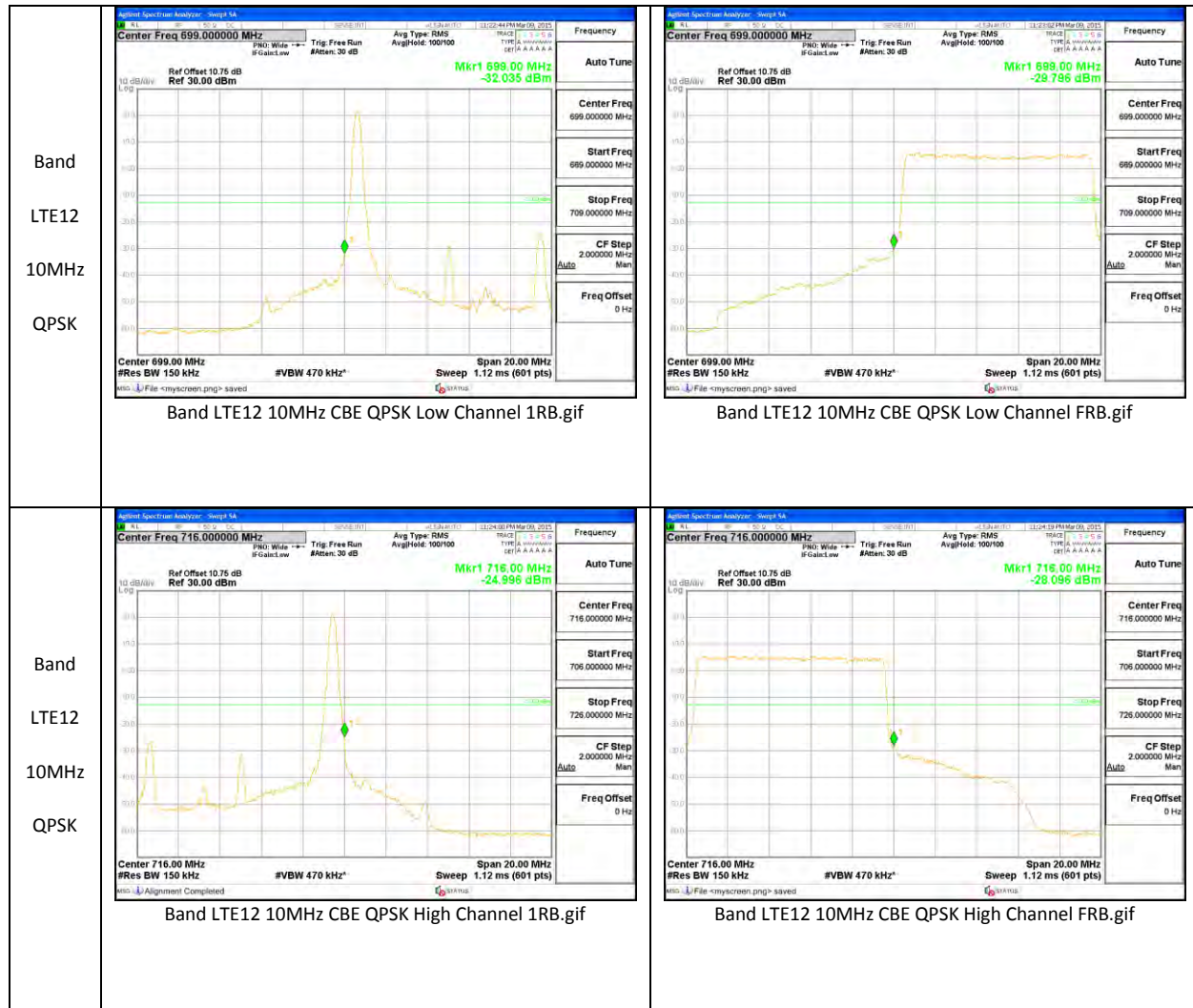




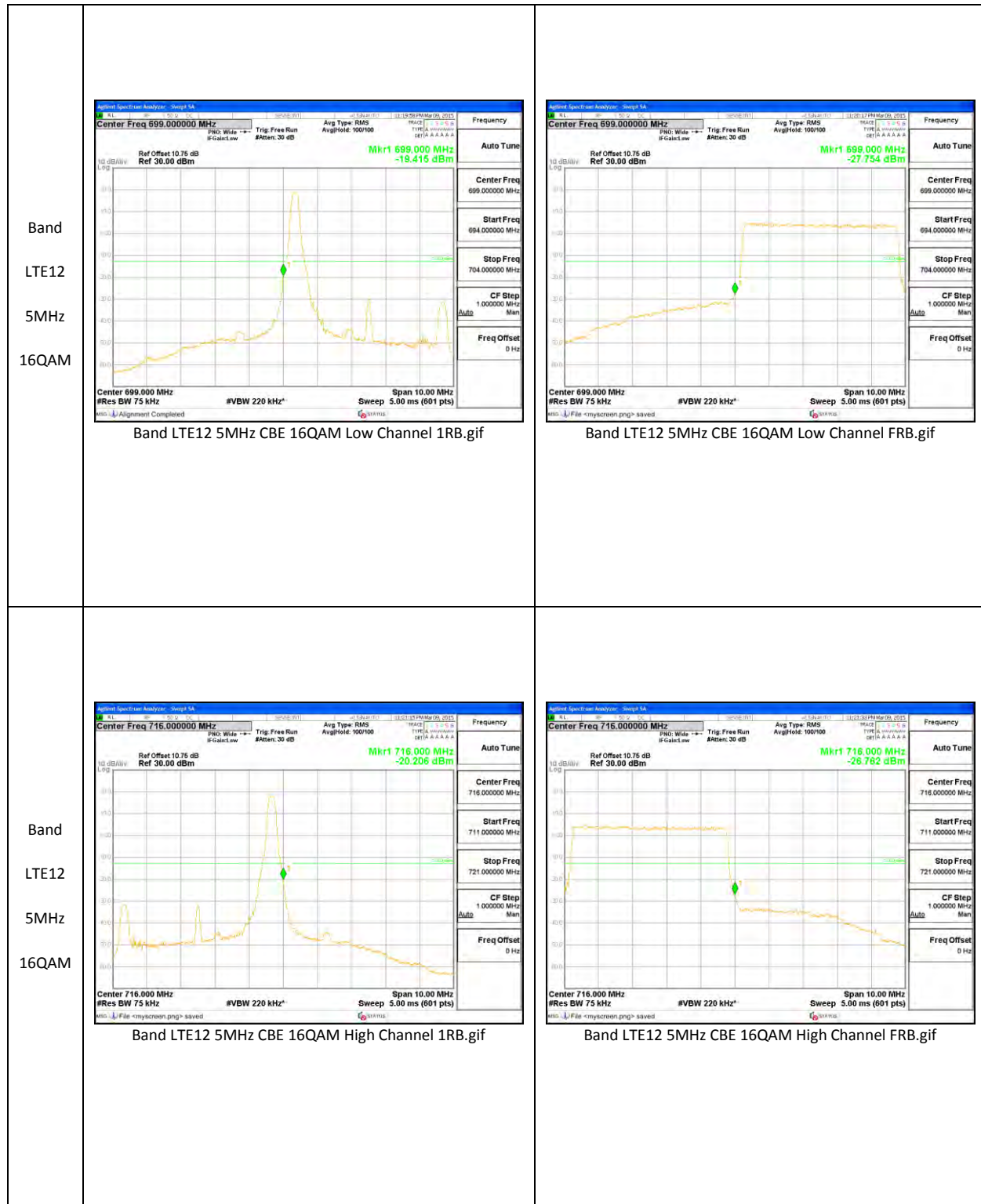


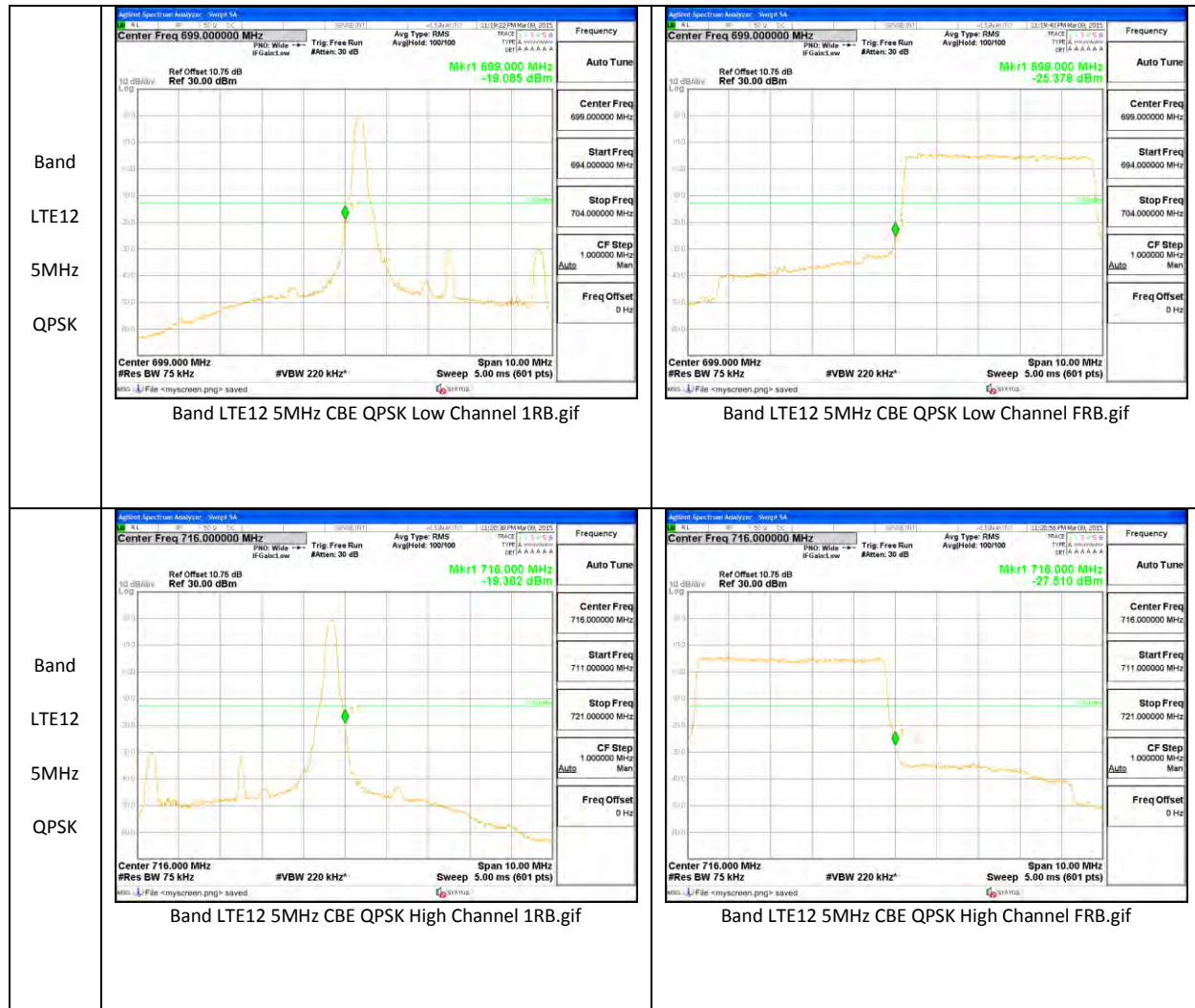
**LTE Band 12**

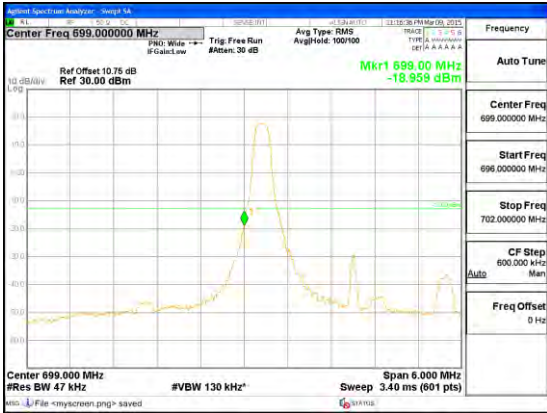

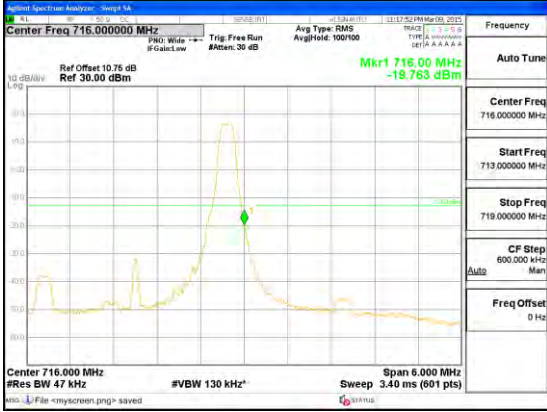



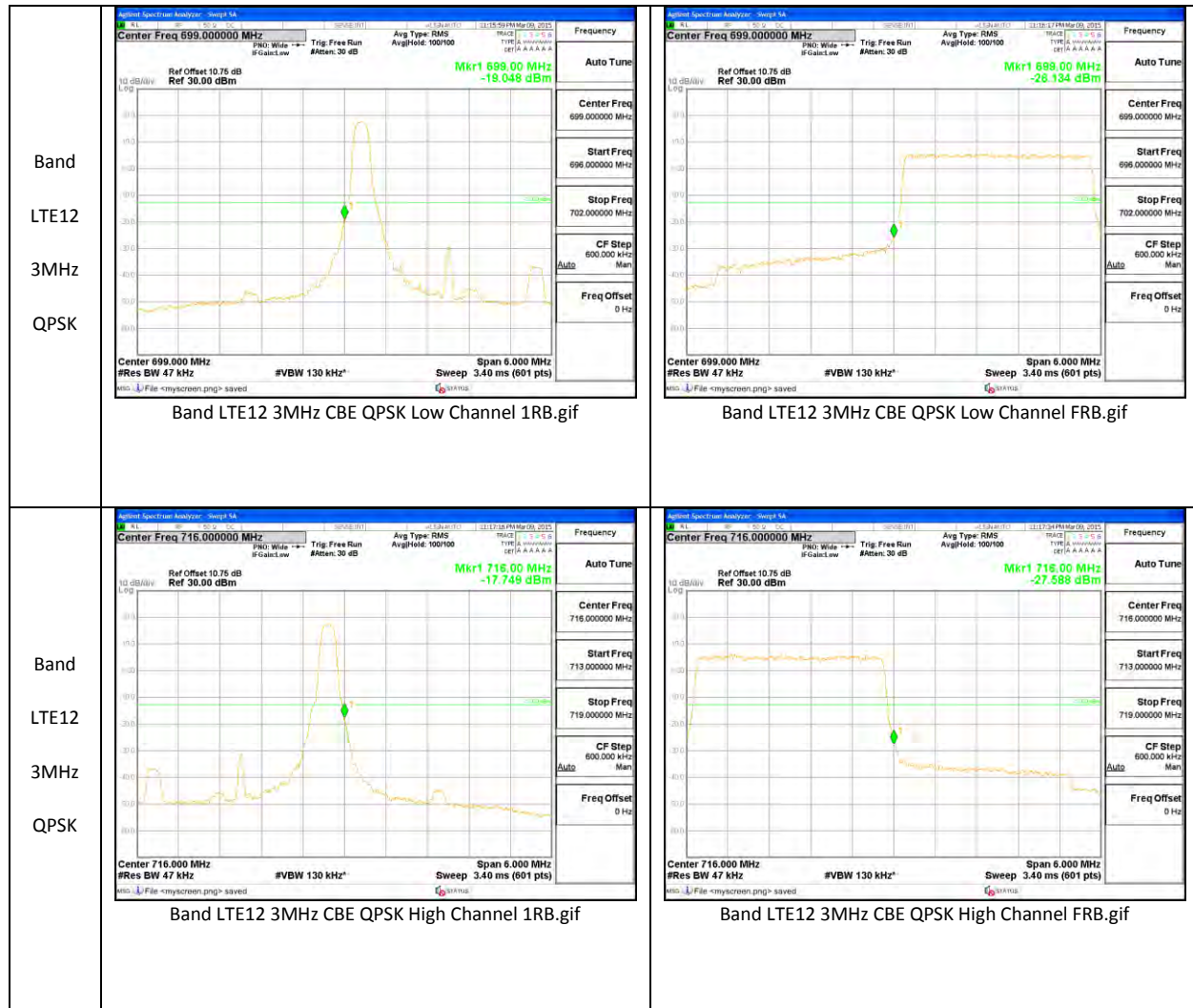


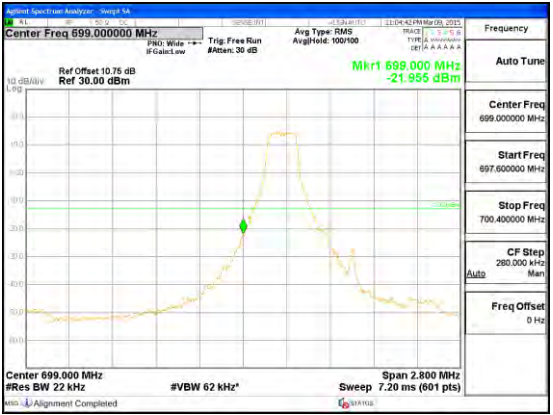
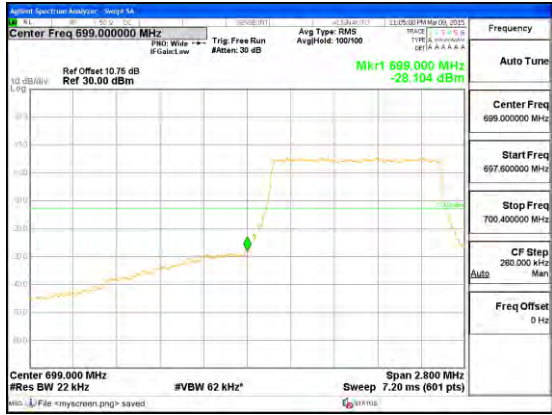
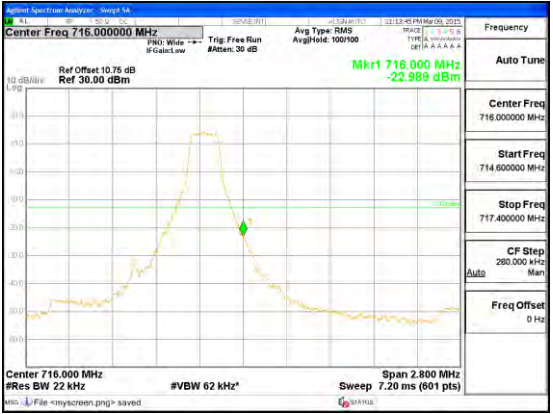
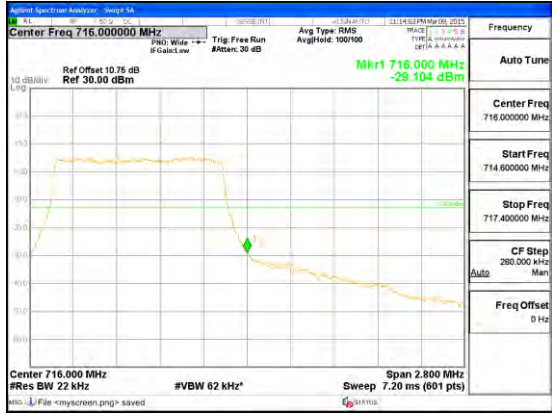


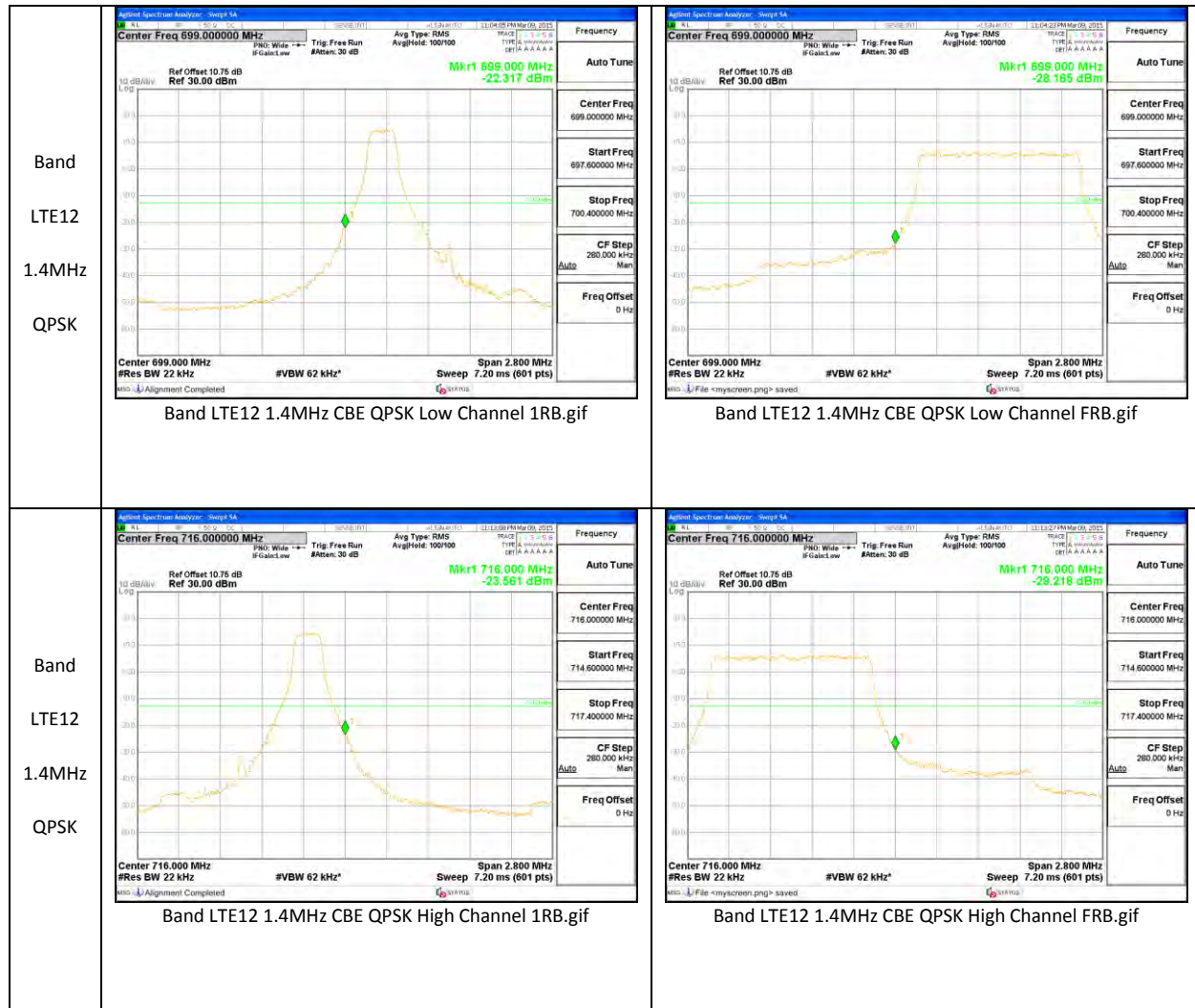




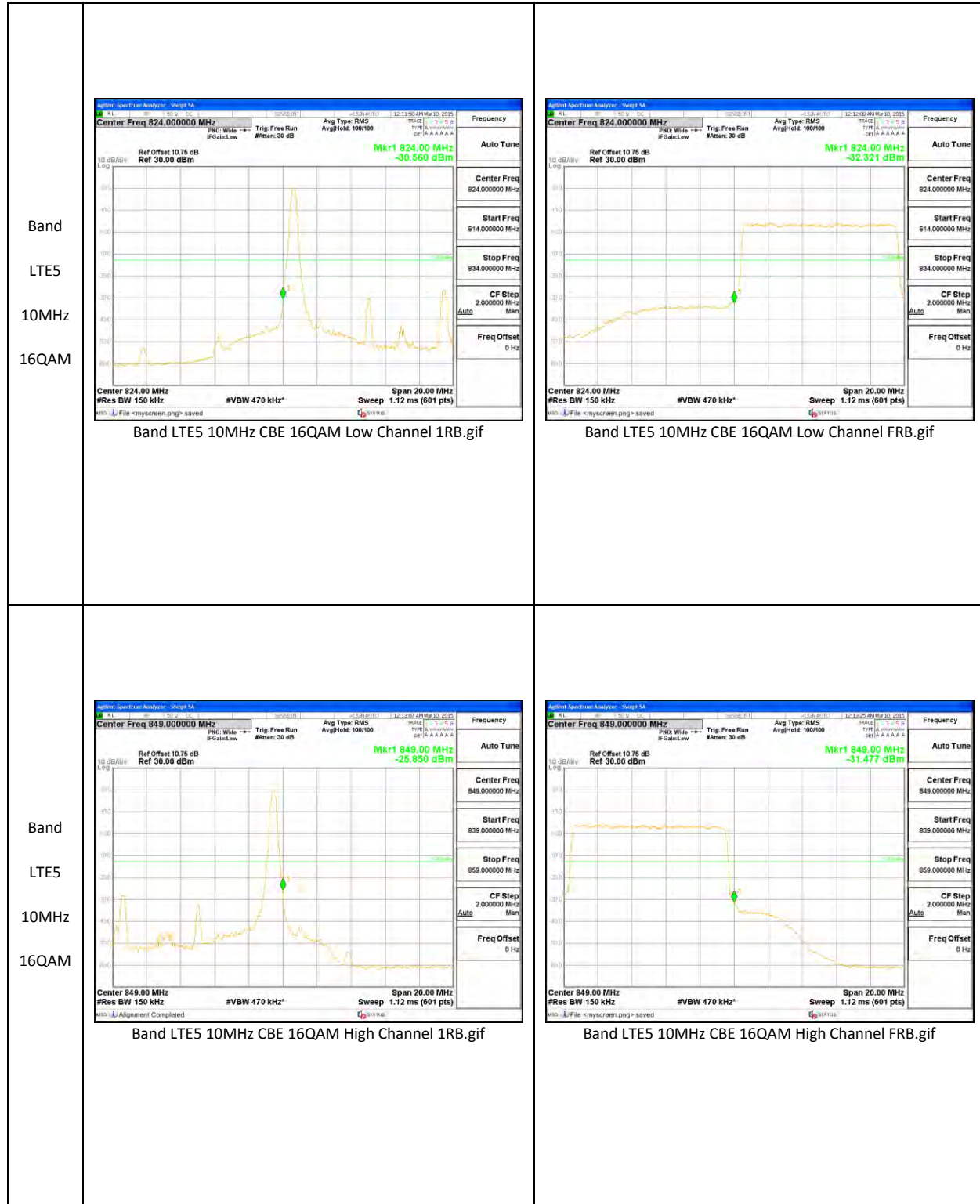
<p>Band LTE12 3MHz 16QAM</p>	 <p>Band LTE12 3MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE12 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE12 3MHz 16QAM</p>	 <p>Band LTE12 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE12 3MHz CBE 16QAM High Channel FRB.gif</p>

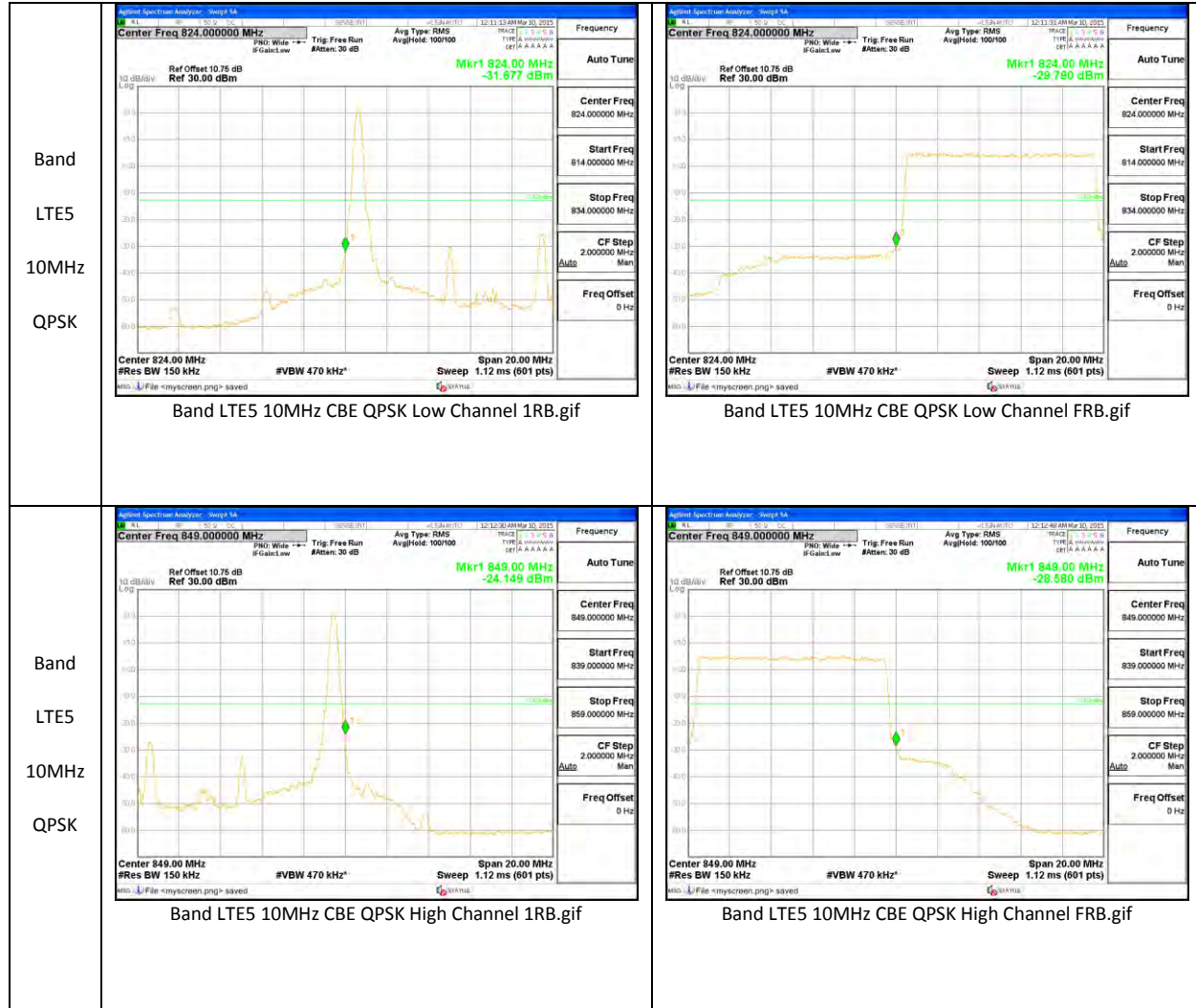


<p>Band LTE12 1.4MHz 16QAM</p>	 <p>Band LTE12 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE12 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE12 1.4MHz 16QAM</p>	 <p>Band LTE12 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE12 1.4MHz CBE 16QAM High Channel FRB.gif</p>

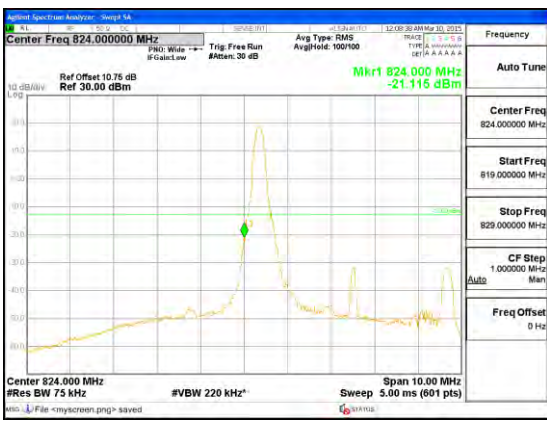

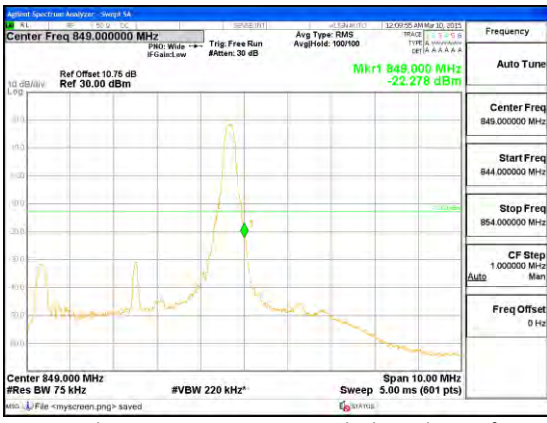
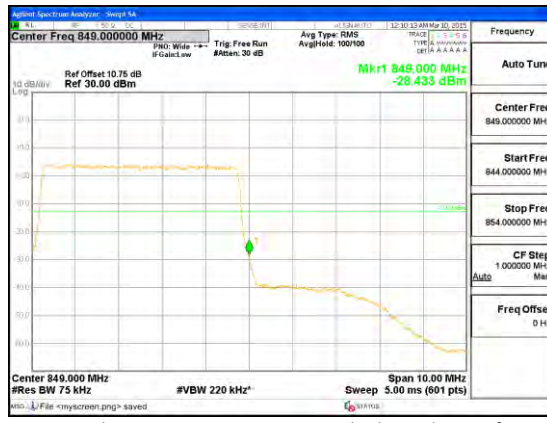


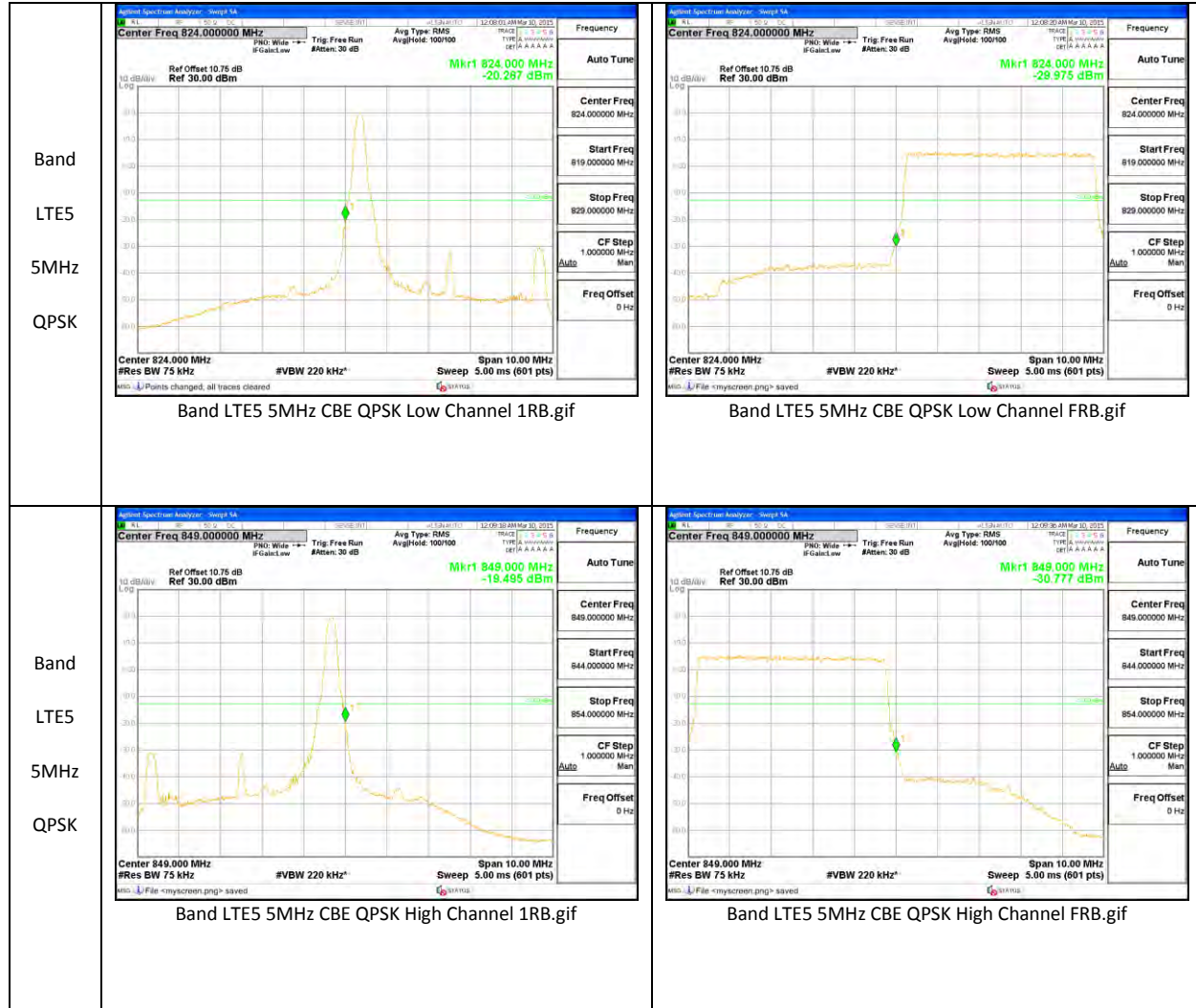
**LTE Band 5**

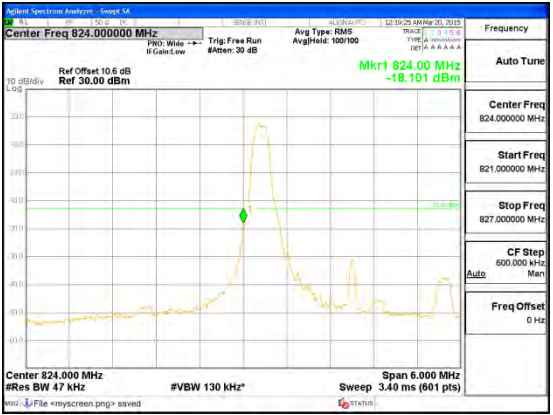
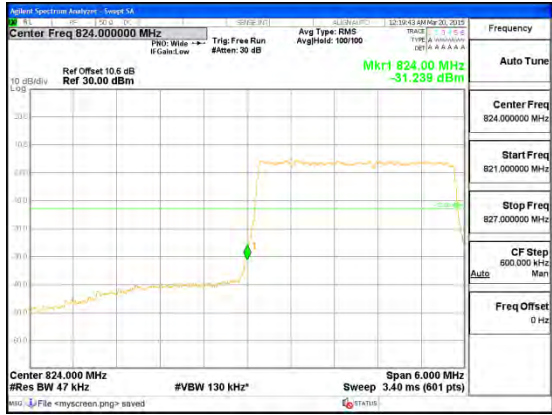
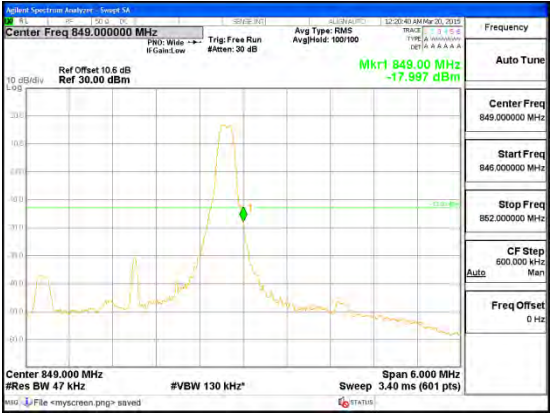



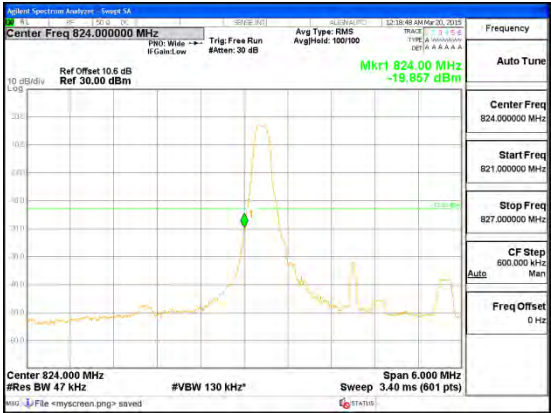

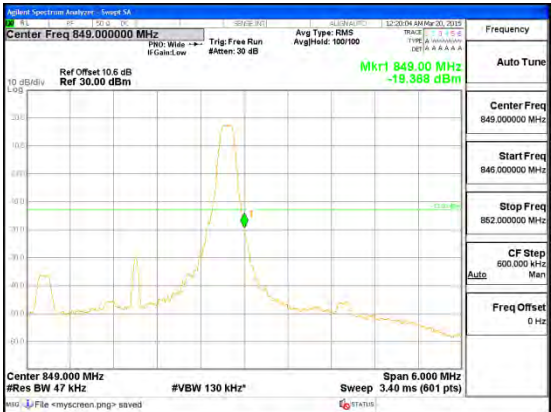
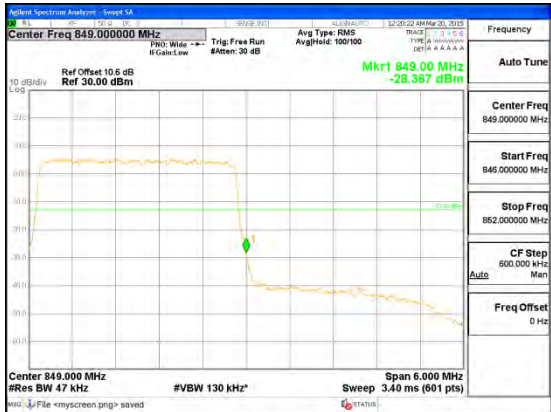


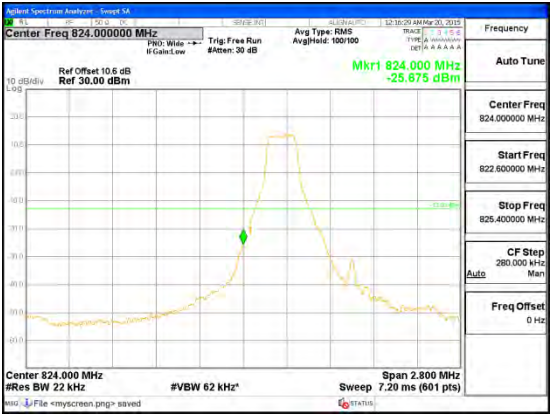
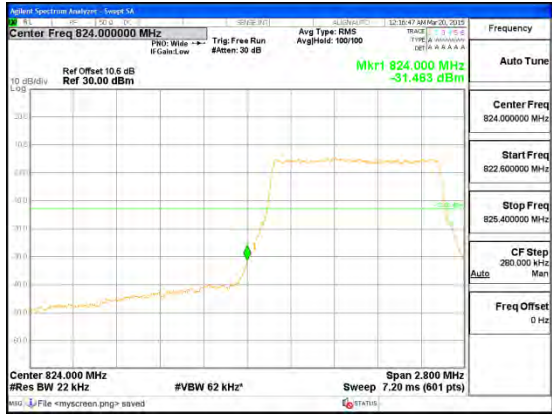
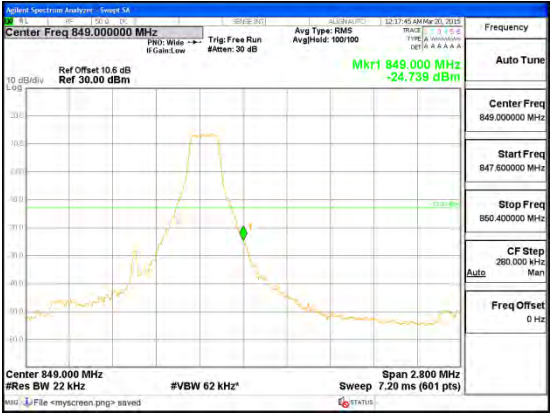
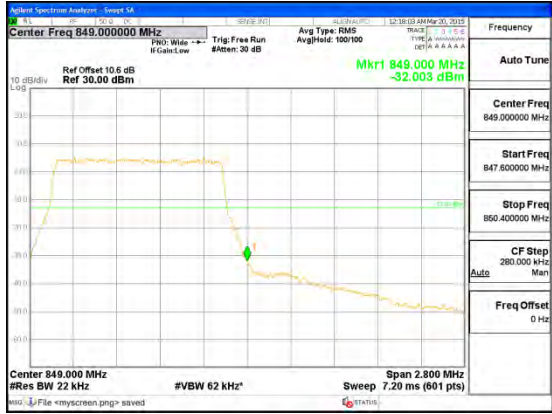


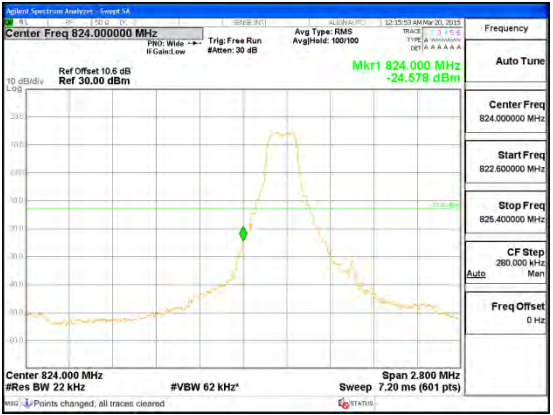
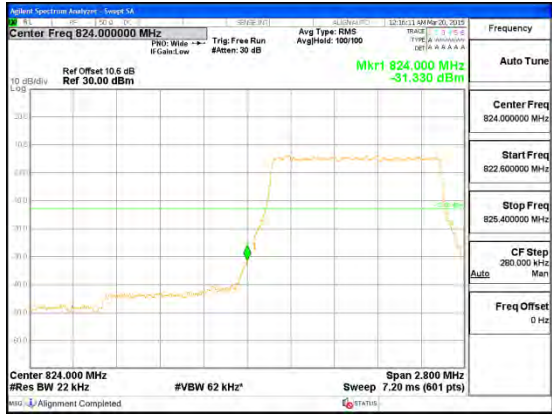
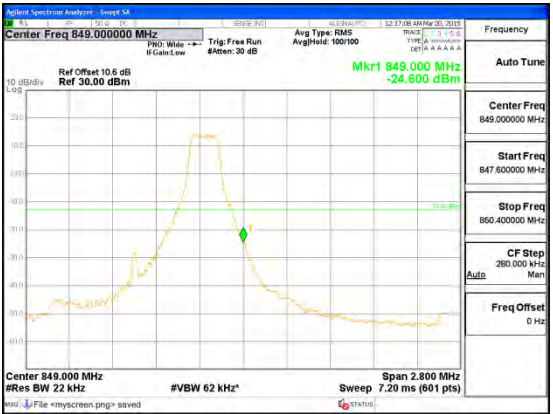
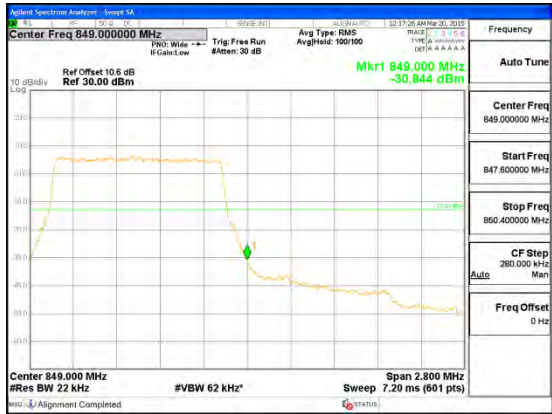
<p>Band LTE5 5MHz 16QAM</p>	 <p>Band LTE5 5MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE5 5MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE5 5MHz 16QAM</p>	 <p>Band LTE5 5MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE5 5MHz CBE 16QAM High Channel FRB.gif</p>



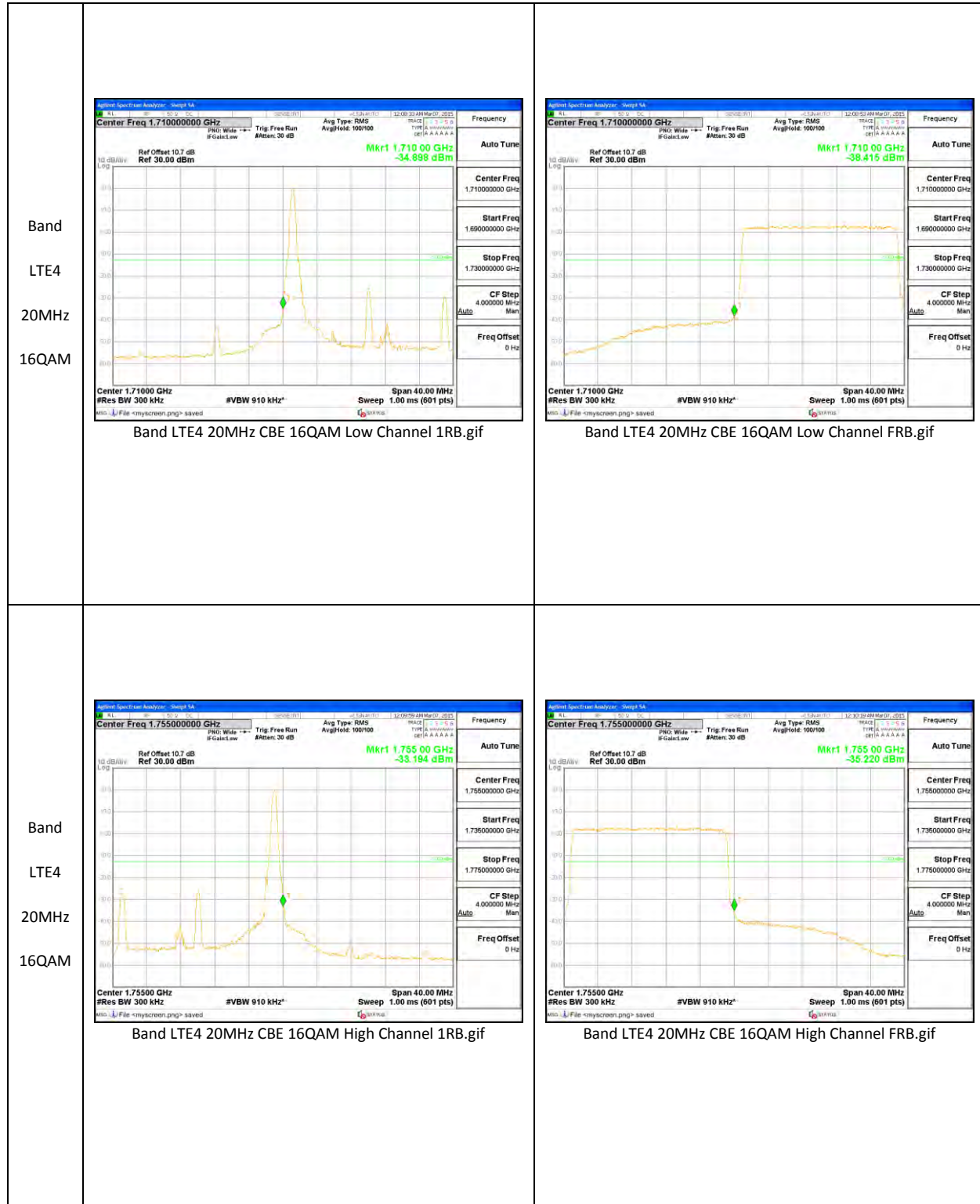
<p>Band LTE5 3MHz 16QAM</p>	 <p>Band LTE5 3MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE5 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE5 3MHz 16QAM</p>	 <p>Band LTE5 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE5 3MHz CBE 16QAM High Channel FRB.gif</p>

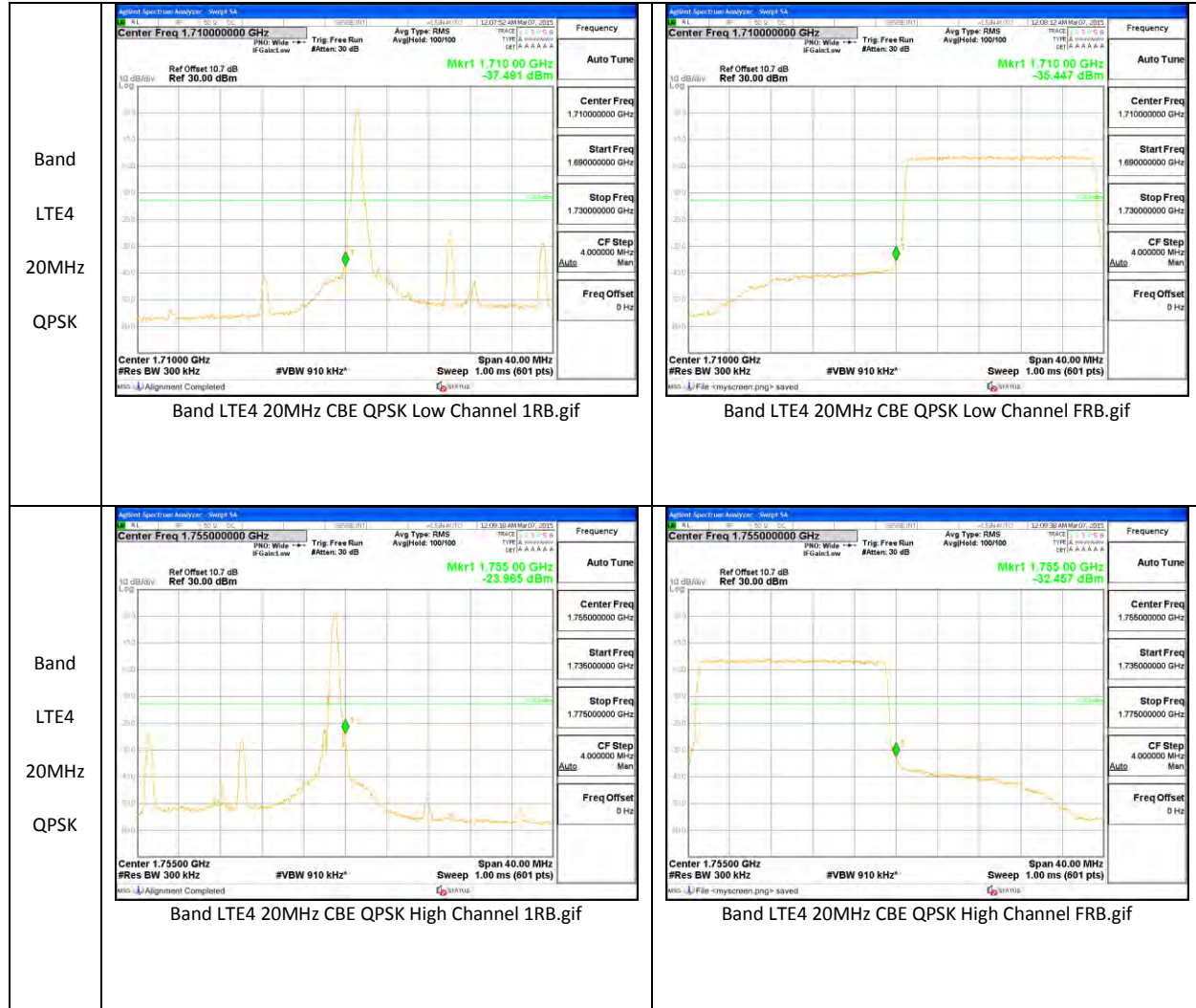
<p>Band LTE5 3MHz QPSK</p>	 <p>Band LTE5 3MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Band LTE5 3MHz CBE QPSK Low Channel FRB.gif</p>
<p>Band LTE5 3MHz QPSK</p>	 <p>Band LTE5 3MHz CBE QPSK High Channel 1RB.gif</p>	 <p>Band LTE5 3MHz CBE QPSK High Channel FRB.gif</p>

<p>Band                  LTE5                  1.4MHz                  16QAM</p>	 <p>Center Freq 824.000000 MHz                  Mkr1 824.000 MHz                  -25.675 dBm                  #VBW 62 kHz*                  Span 2.900 MHz                  Sweep 7.20 ms (601 pts)</p> <p>Band LTE5 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Center Freq 824.000000 MHz                  Mkr1 824.000 MHz                  -31.463 dBm                  #VBW 62 kHz*                  Span 2.900 MHz                  Sweep 7.20 ms (601 pts)</p> <p>Band LTE5 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band                  LTE5                  1.4MHz                  16QAM</p>	 <p>Center Freq 849.000000 MHz                  Mkr1 849.000 MHz                  -24.739 dBm                  #VBW 62 kHz*                  Span 2.900 MHz                  Sweep 7.20 ms (601 pts)</p> <p>Band LTE5 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Center Freq 849.000000 MHz                  Mkr1 849.000 MHz                  -32.003 dBm                  #VBW 62 kHz*                  Span 2.900 MHz                  Sweep 7.20 ms (601 pts)</p> <p>Band LTE5 1.4MHz CBE 16QAM High Channel FRB.gif</p>

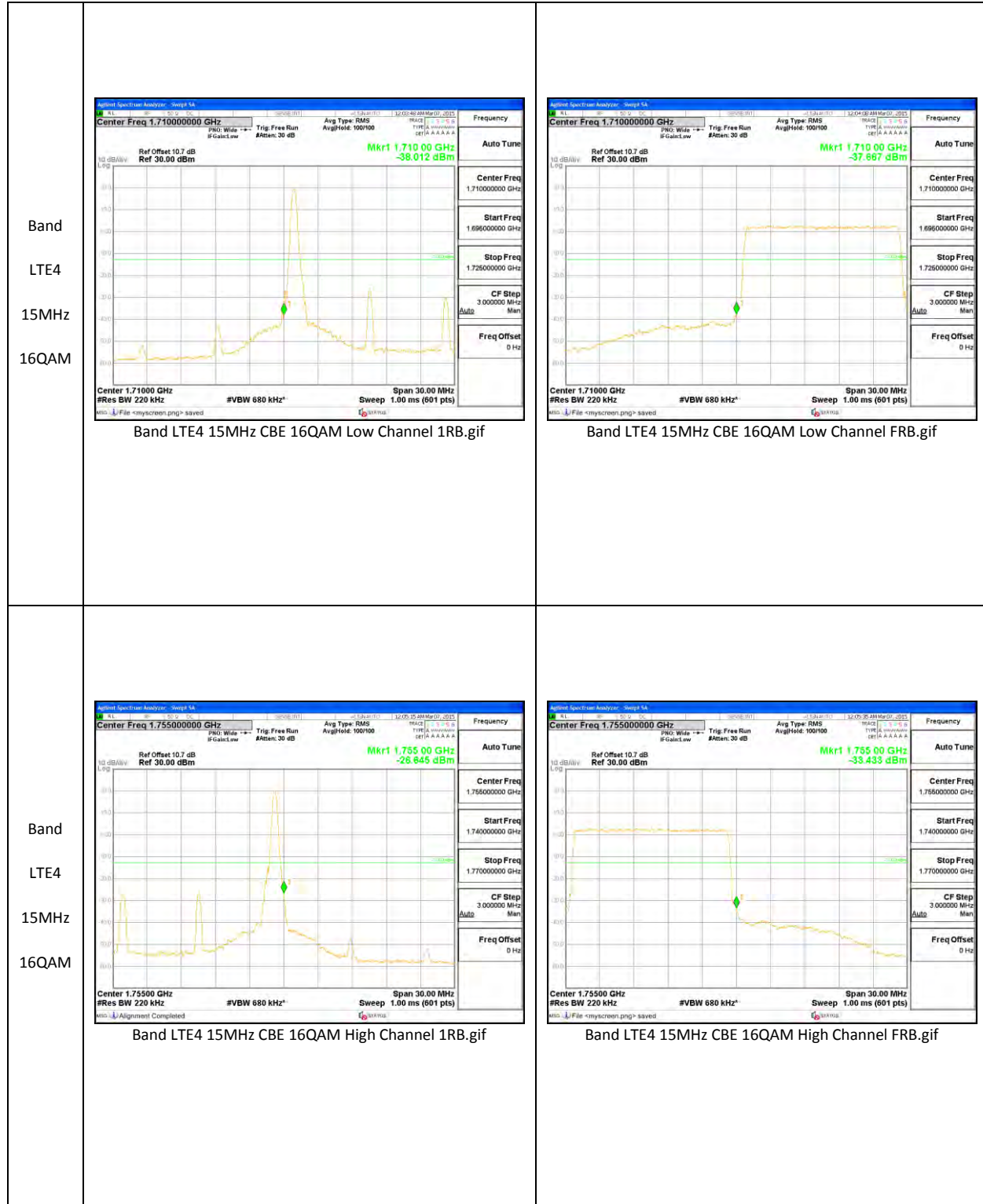
<p>Band                  LTE5                  1.4MHz                  QPSK</p>	 <p>Center Freq 824.000000 MHz                  Mkr1 824.000 MHz                  -24.578 dBm                  Center Freq 824.000000 MHz                  Start Freq 822.800000 MHz                  Stop Freq 825.400000 MHz                  CF Step 280.000 MHz                  Freq Offset 0 Hz                  Center 824.000 MHz                  #VBW 62 kHz*                  Span 2.800 MHz                  #Res BW 22 kHz                  Sweep 7.20 ms (601 pts)</p> <p>Band LTE5 1.4MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Center Freq 824.000000 MHz                  Mkr1 824.000 MHz                  -31.330 dBm                  Center Freq 824.000000 MHz                  Start Freq 822.800000 MHz                  Stop Freq 825.400000 MHz                  CF Step 280.000 MHz                  Freq Offset 0 Hz                  Center 824.000 MHz                  #VBW 62 kHz*                  Span 2.800 MHz                  #Res BW 22 kHz                  Sweep 7.20 ms (601 pts)</p> <p>Band LTE5 1.4MHz CBE QPSK Low Channel FRB.gif</p>
<p>Band                  LTE5                  1.4MHz                  QPSK</p>	 <p>Center Freq 849.000000 MHz                  Mkr1 849.000 MHz                  -24.800 dBm                  Center Freq 849.000000 MHz                  Start Freq 847.800000 MHz                  Stop Freq 850.400000 MHz                  CF Step 280.000 MHz                  Freq Offset 0 Hz                  Center 849.000 MHz                  #VBW 62 kHz*                  Span 2.800 MHz                  #Res BW 22 kHz                  Sweep 7.20 ms (601 pts)</p> <p>Band LTE5 1.4MHz CBE QPSK High Channel 1RB.gif</p>	 <p>Center Freq 849.000000 MHz                  Mkr1 849.000 MHz                  -30.844 dBm                  Center Freq 849.000000 MHz                  Start Freq 847.800000 MHz                  Stop Freq 850.400000 MHz                  CF Step 280.000 MHz                  Freq Offset 0 Hz                  Center 849.000 MHz                  #VBW 62 kHz*                  Span 2.800 MHz                  #Res BW 22 kHz                  Sweep 7.20 ms (601 pts)</p> <p>Band LTE5 1.4MHz CBE QPSK High Channel FRB.gif</p>

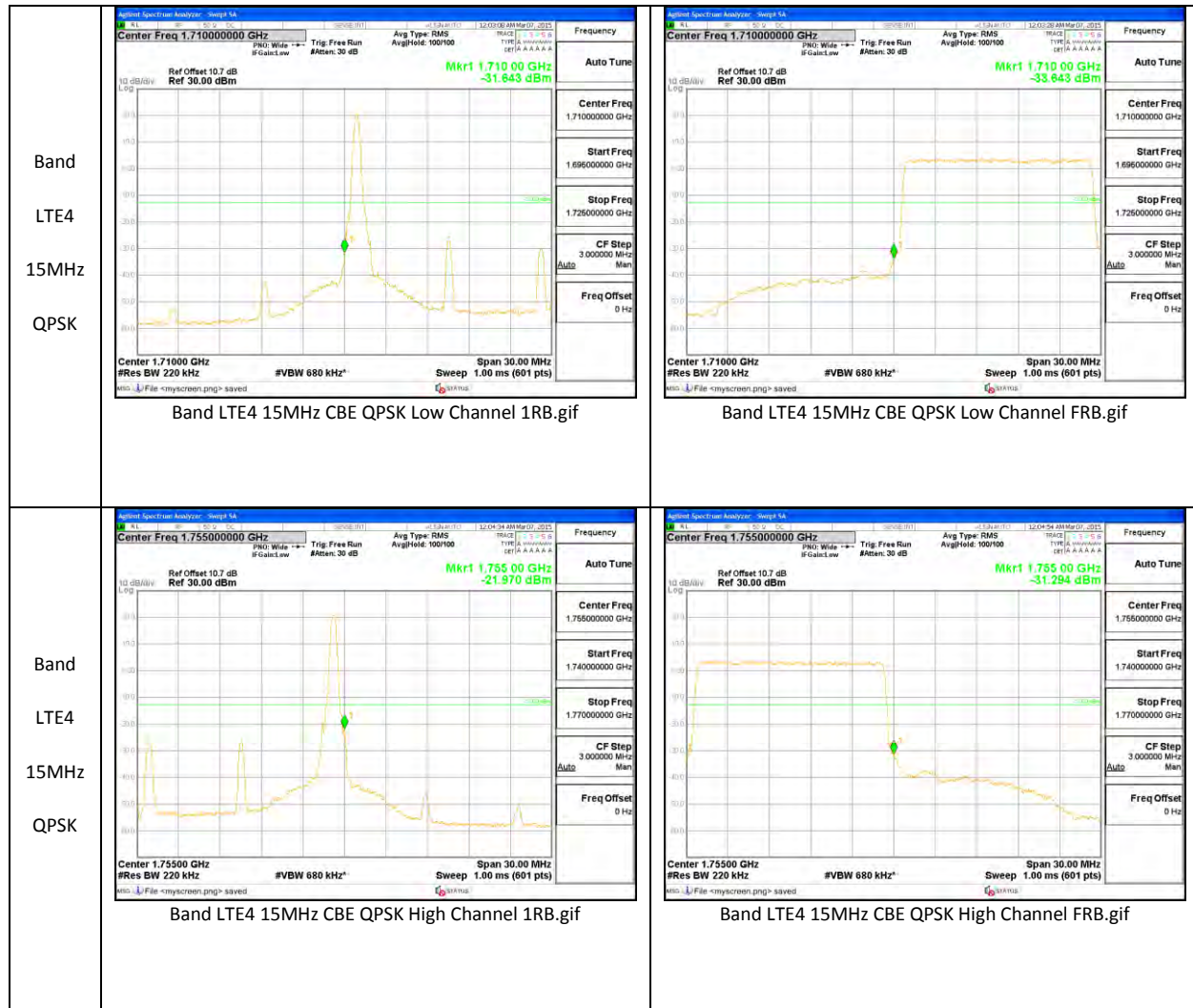
**LTE Band 4**

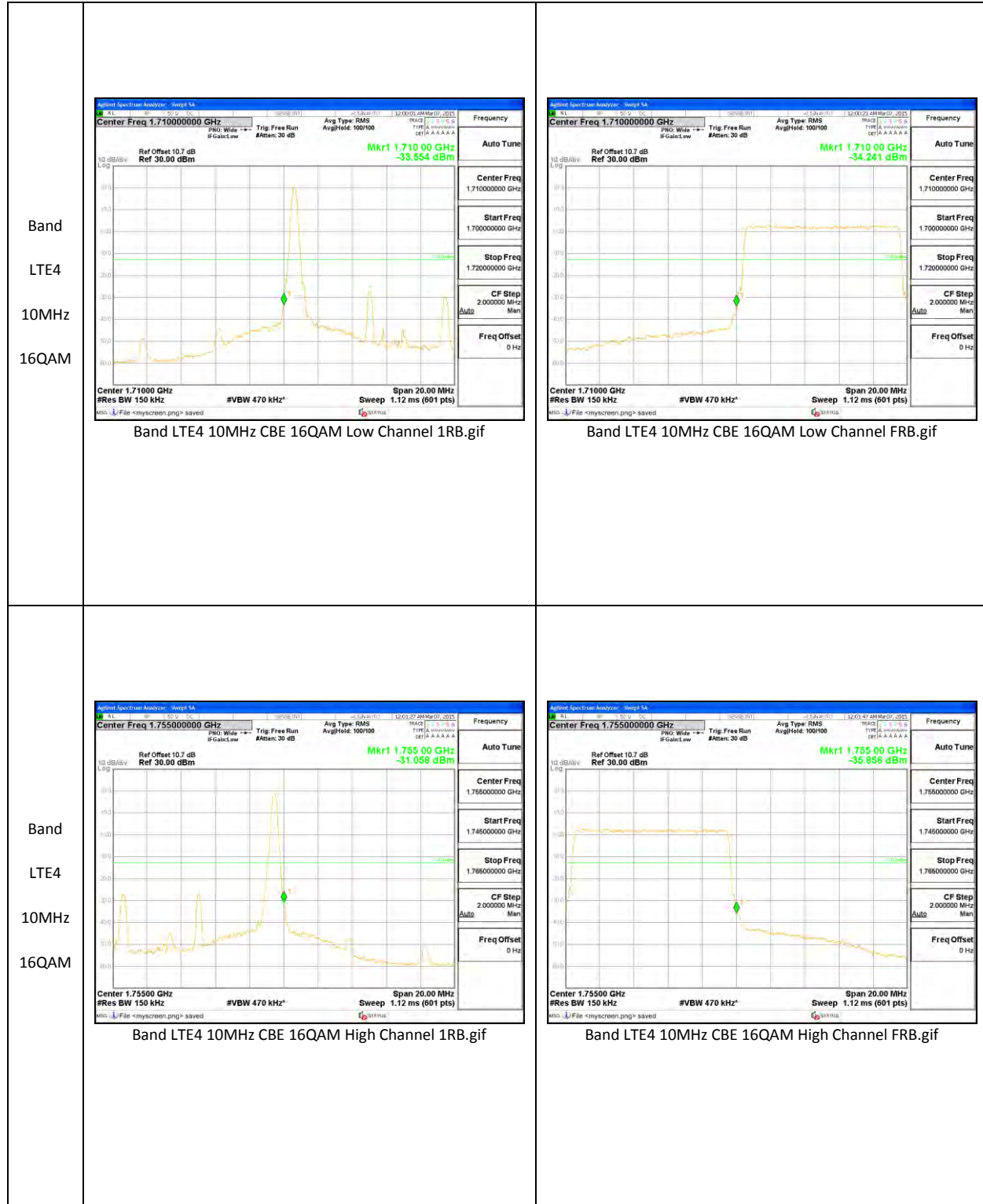


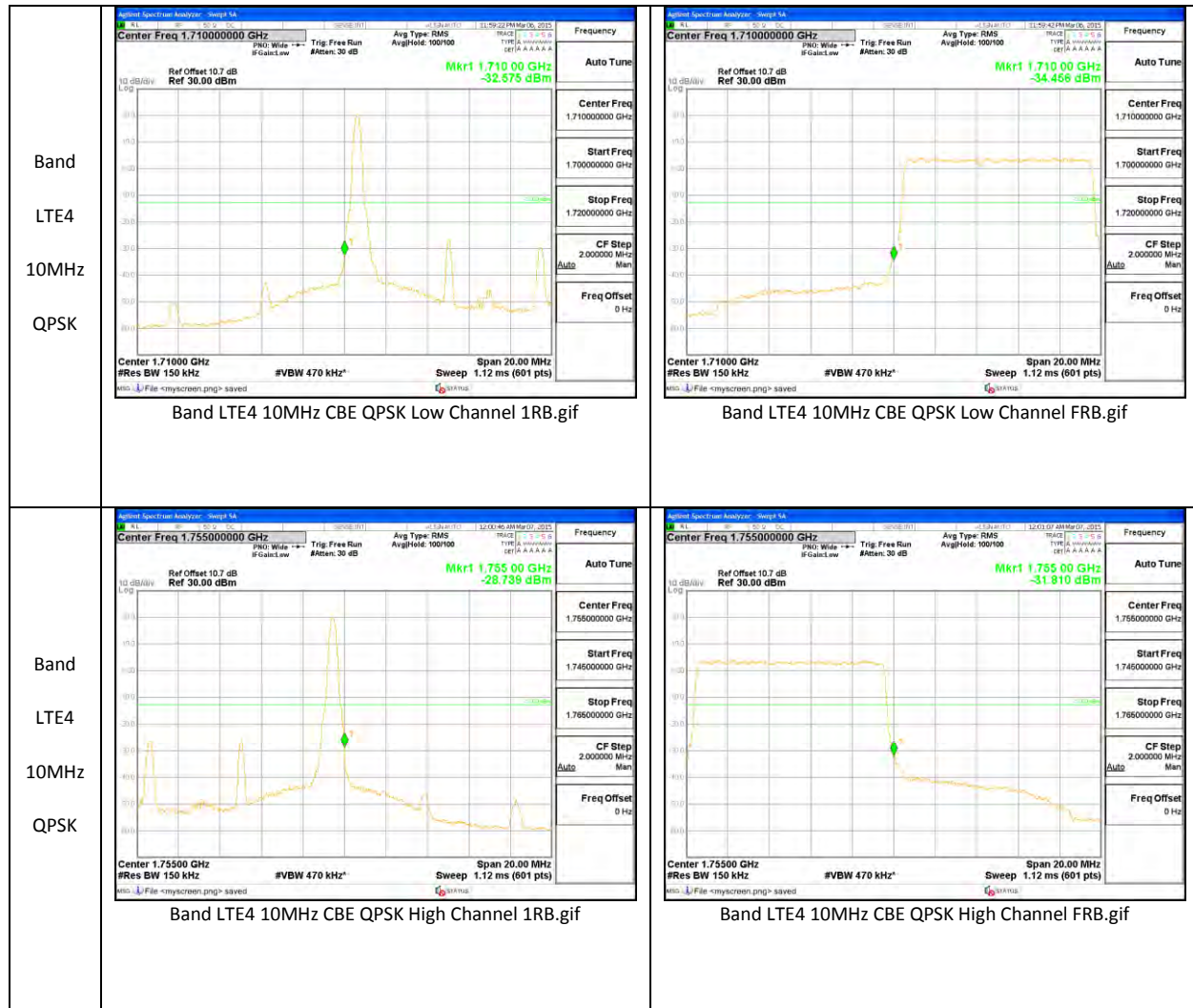


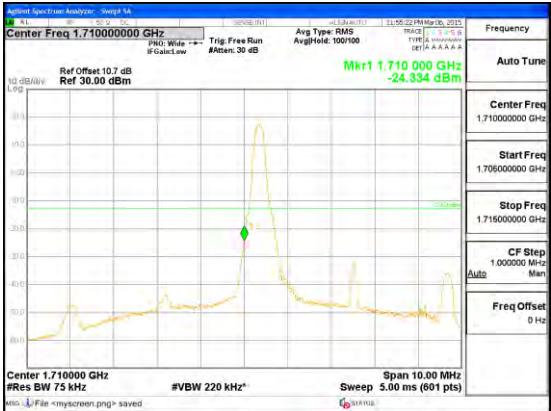
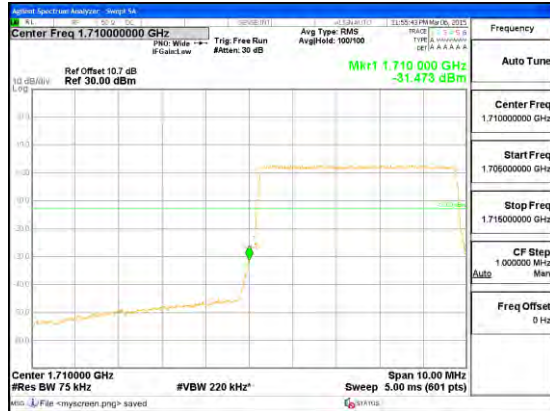
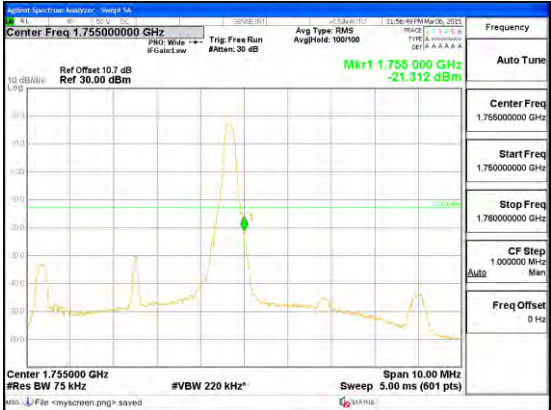



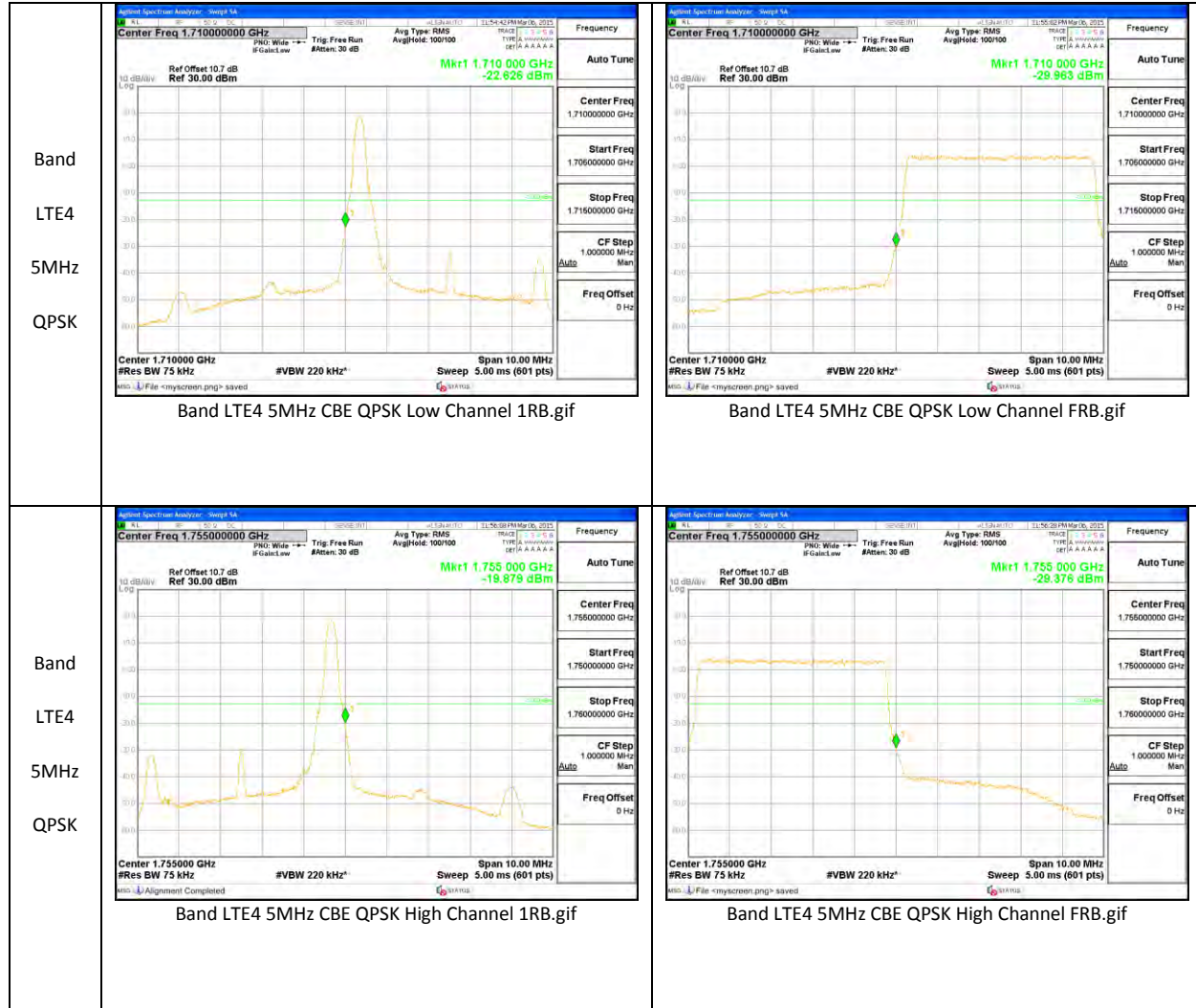


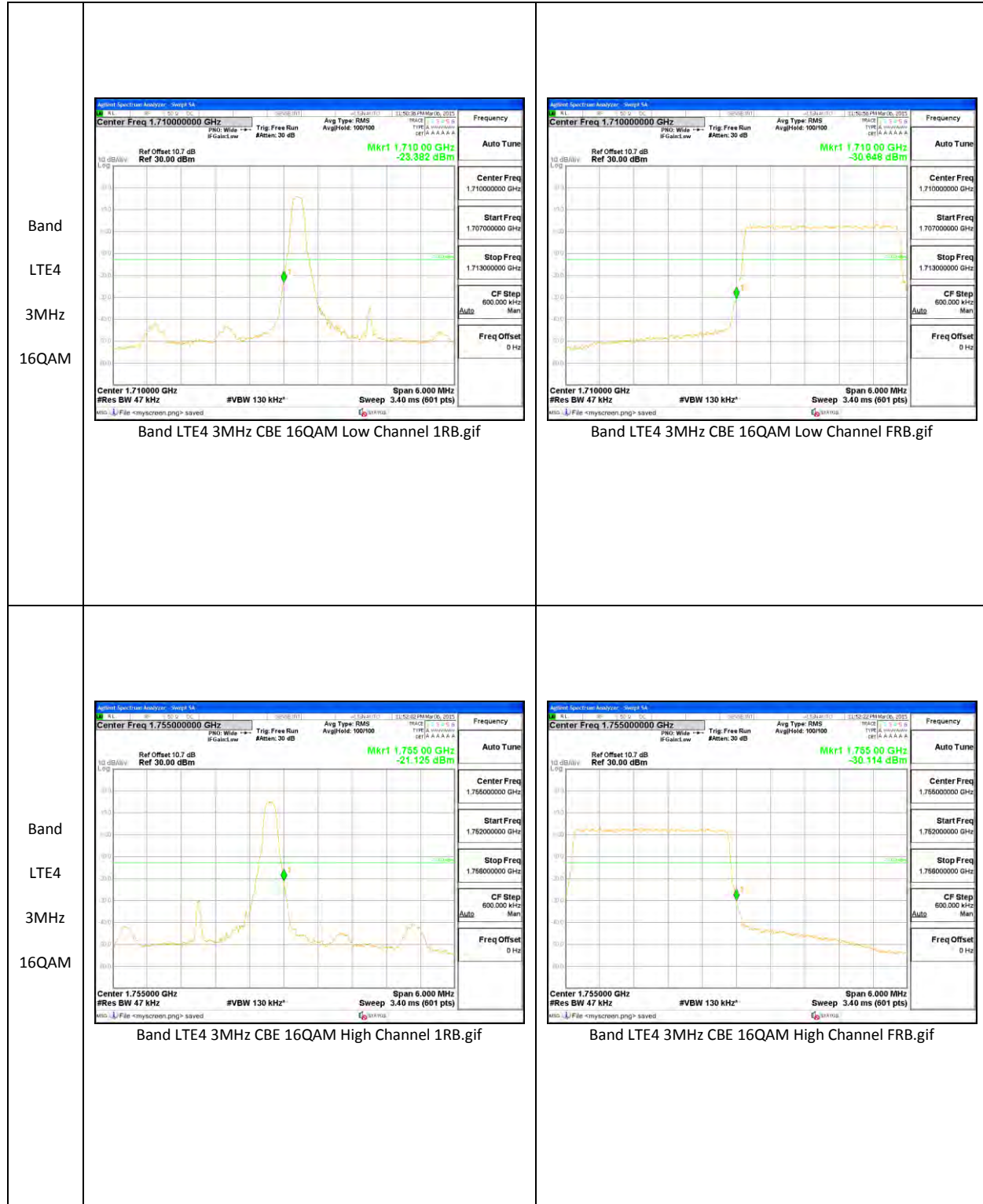


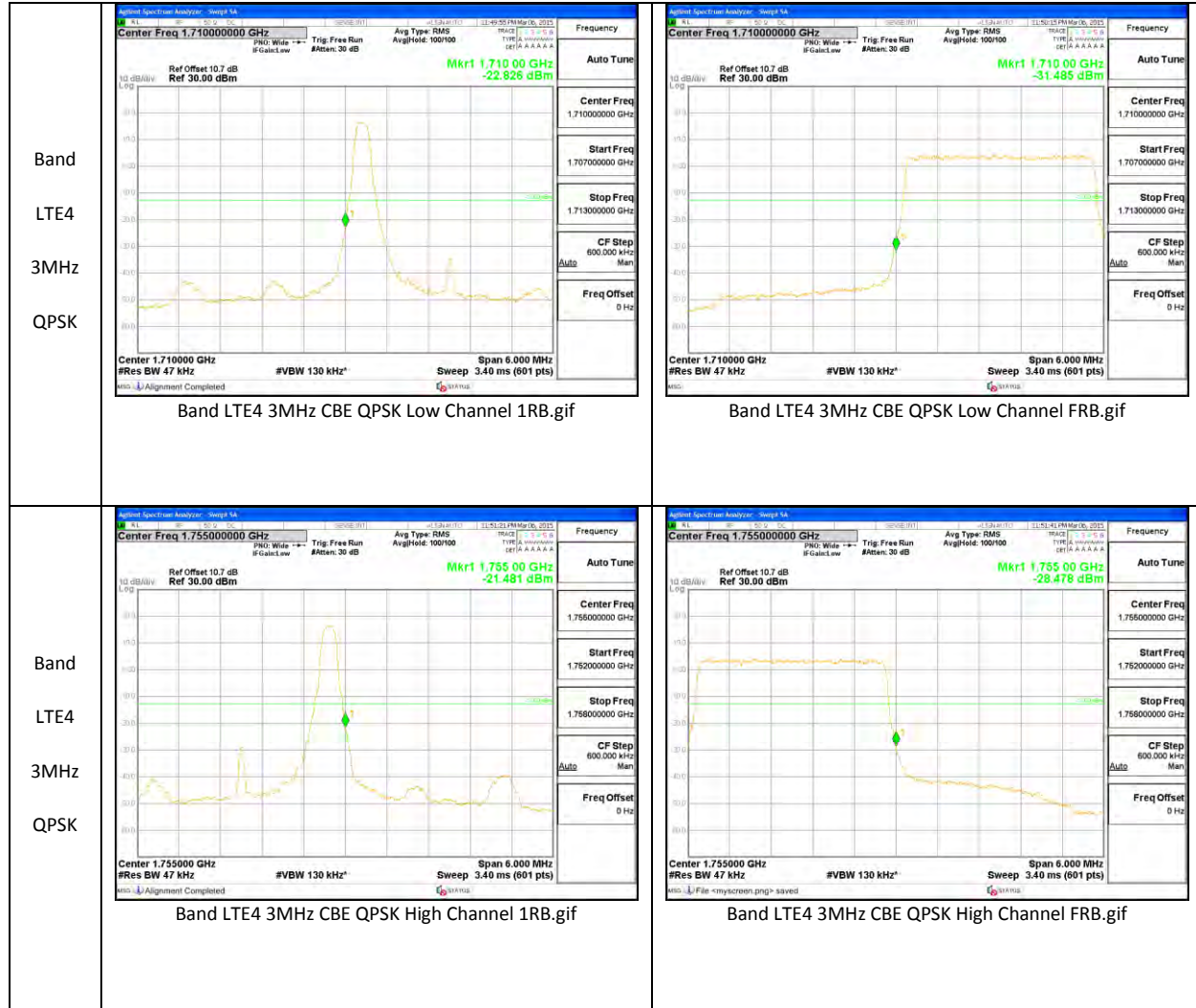




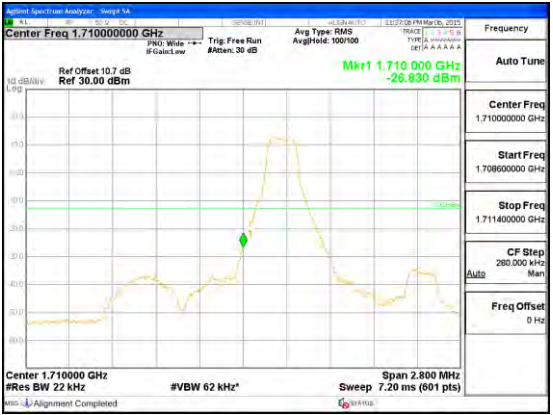
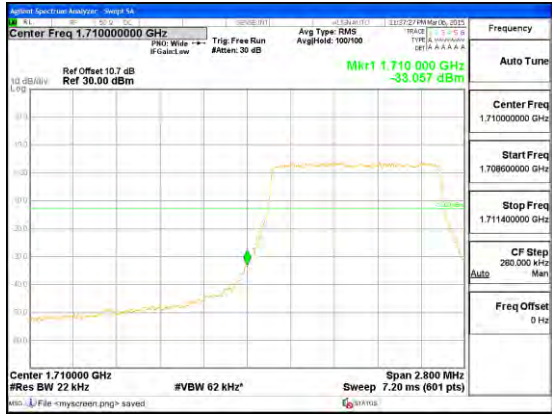
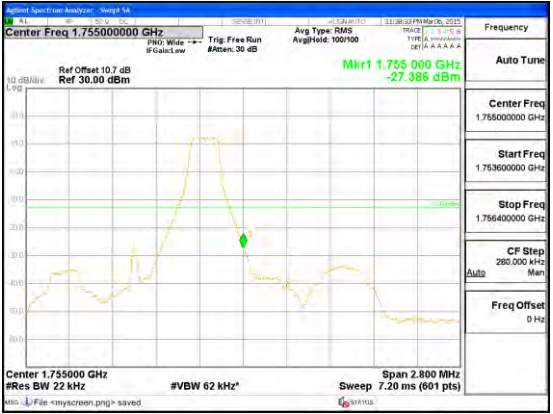
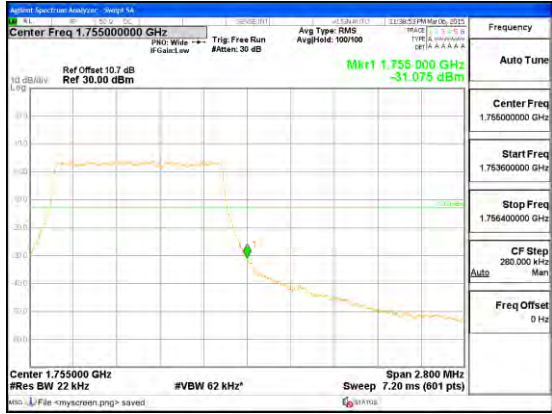
<p>Band LTE4 5MHz 16QAM</p>	 <p>Band LTE4 5MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE4 5MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE4 5MHz 16QAM</p>	 <p>Band LTE4 5MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE4 5MHz CBE 16QAM High Channel FRB.gif</p>

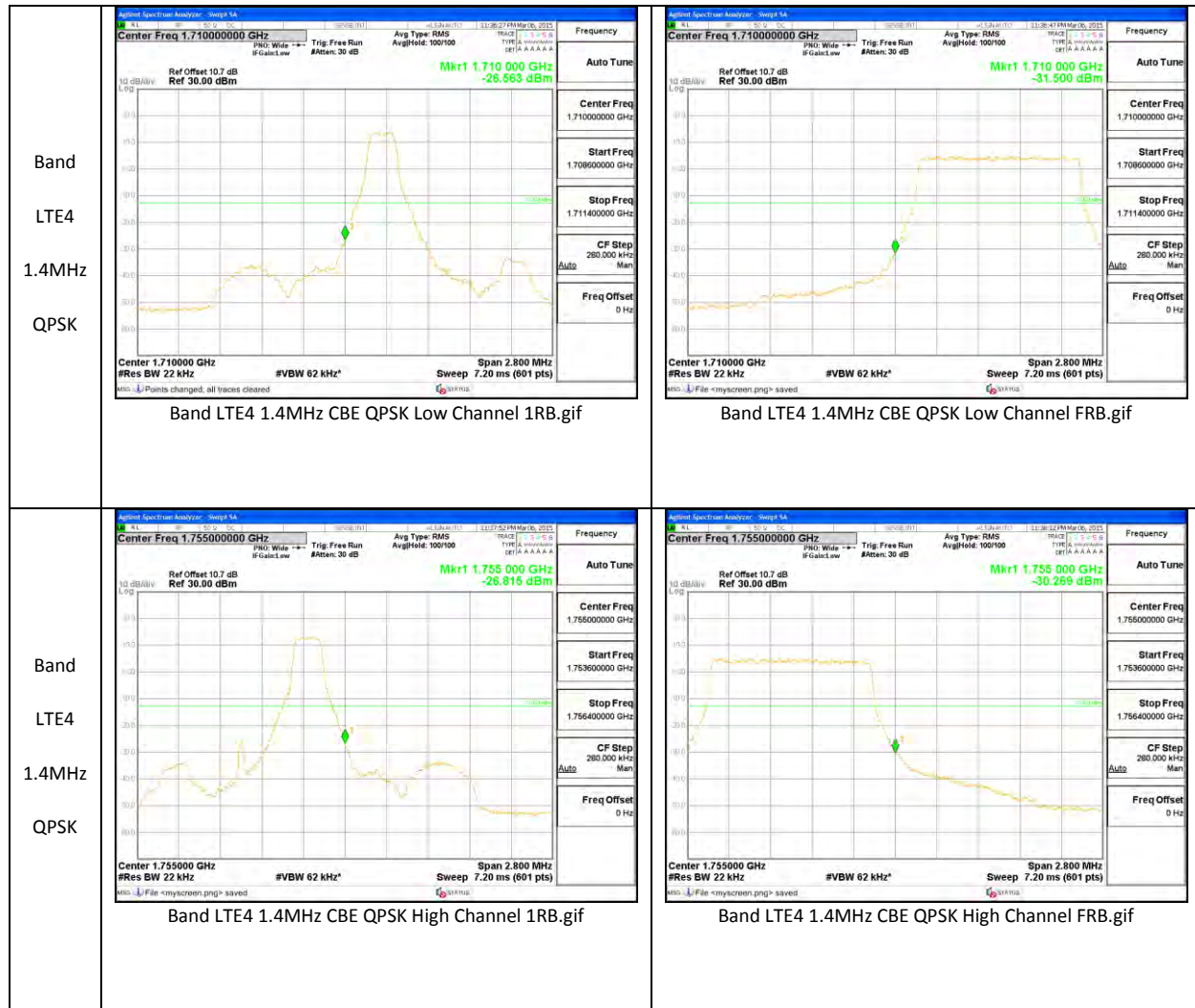




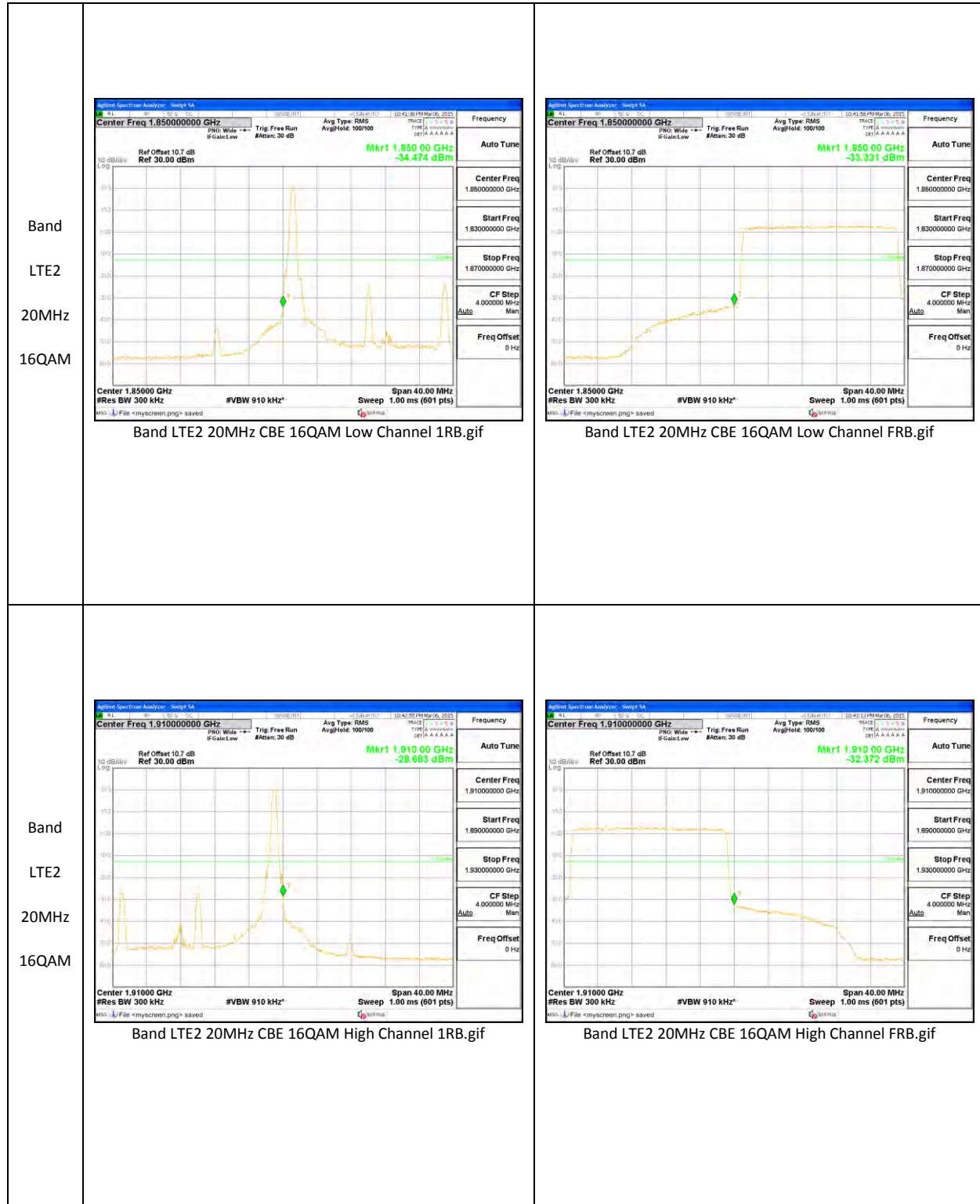


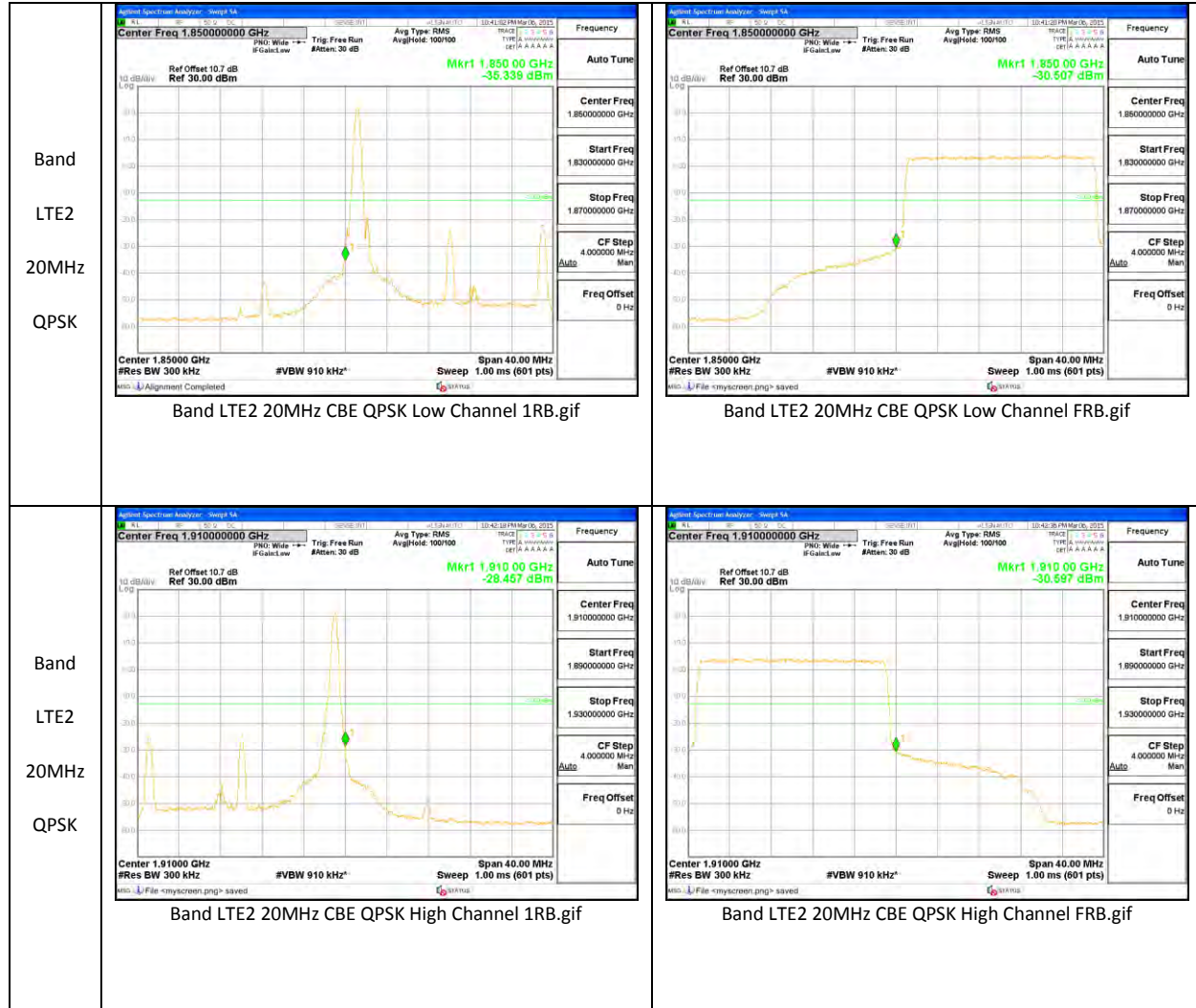


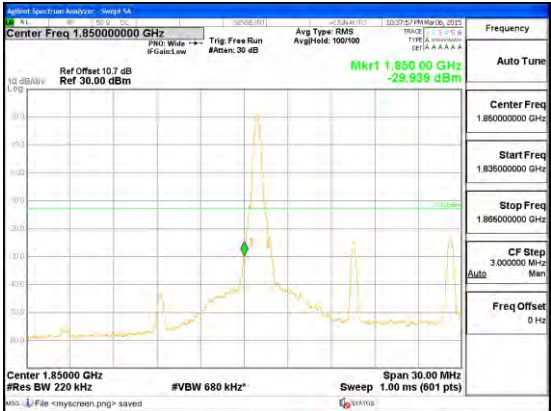
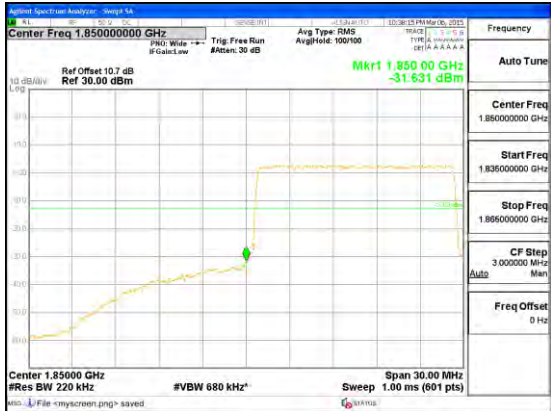
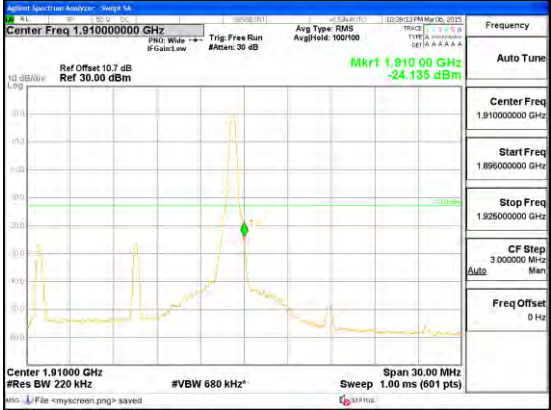

<p>Band LTE4 1.4MHz 16QAM</p>	 <p>Band LTE4 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE4 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE4 1.4MHz 16QAM</p>	 <p>Band LTE4 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE4 1.4MHz CBE 16QAM High Channel FRB.gif</p>

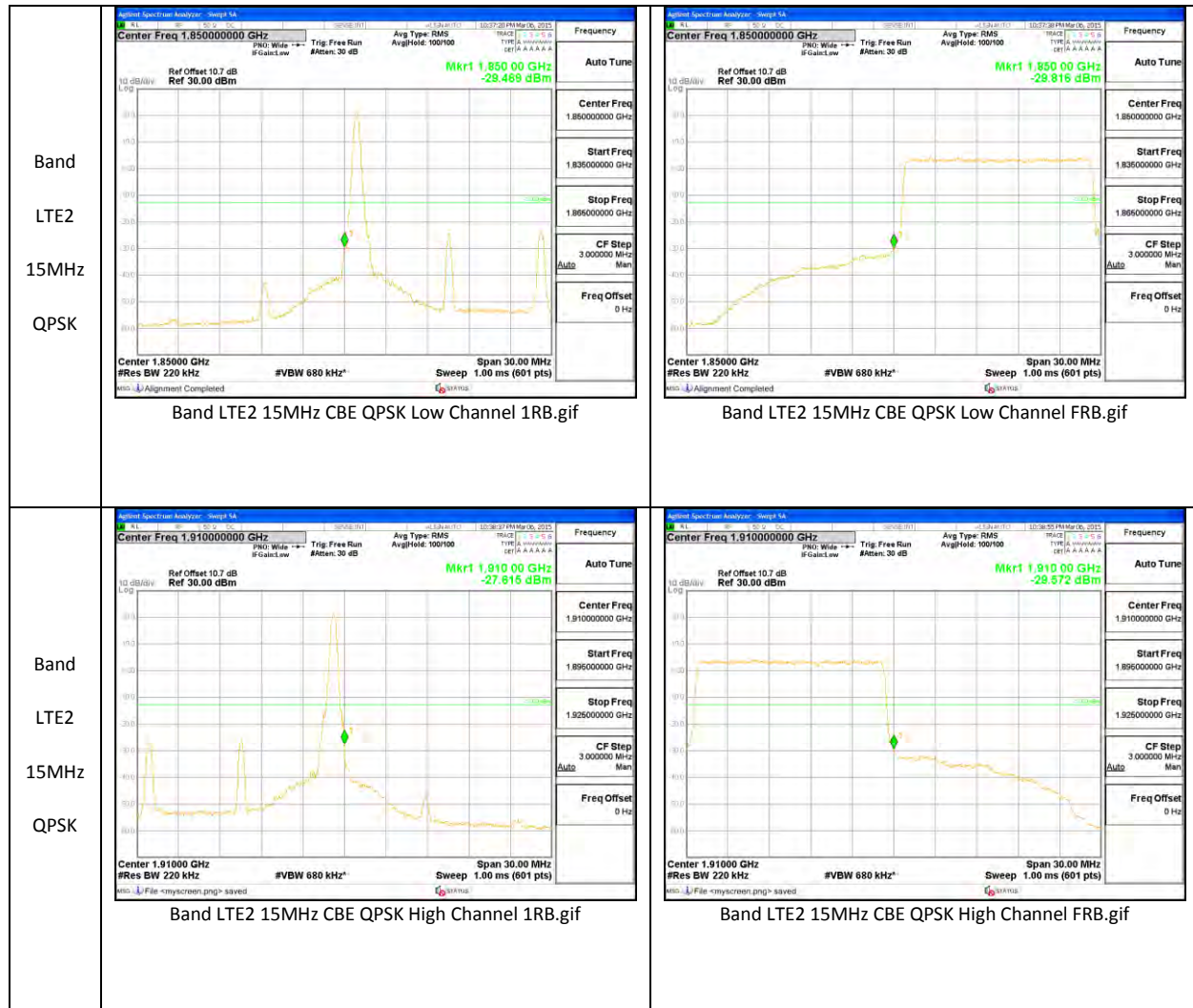


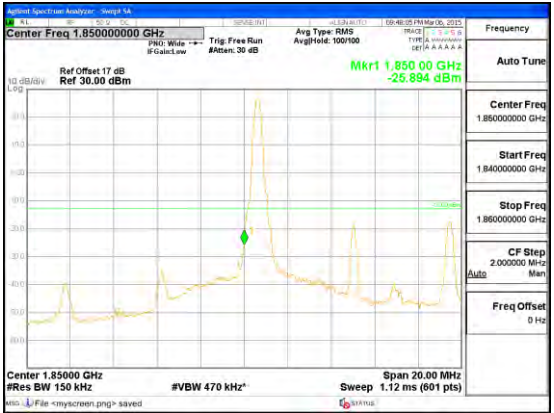

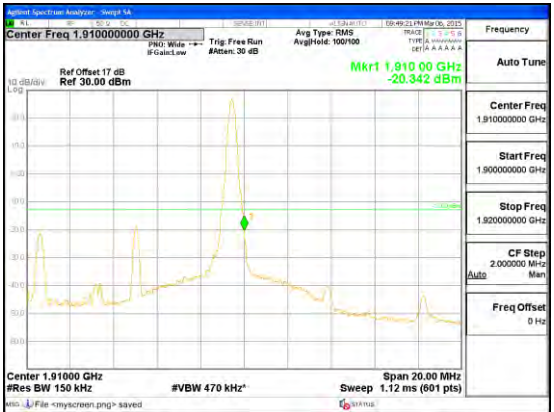

**LTE Band 2**

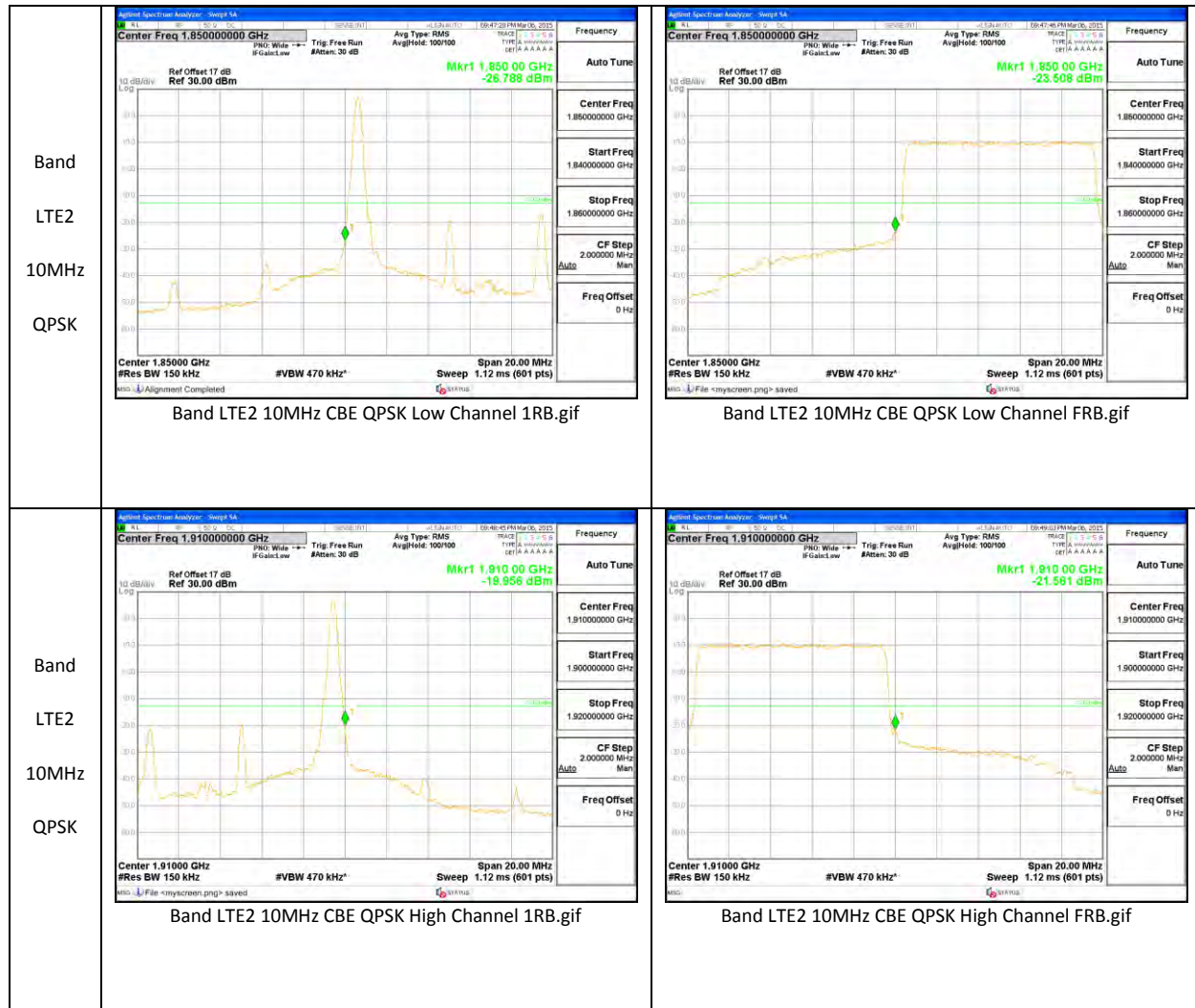




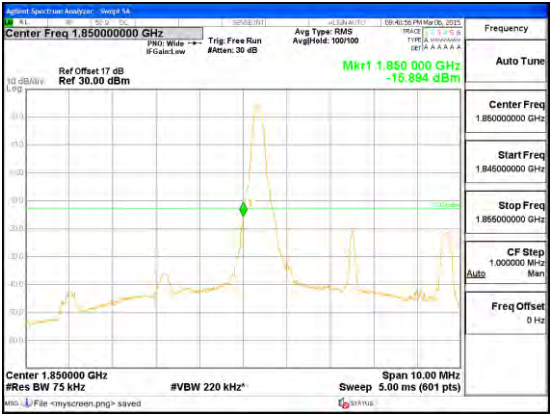
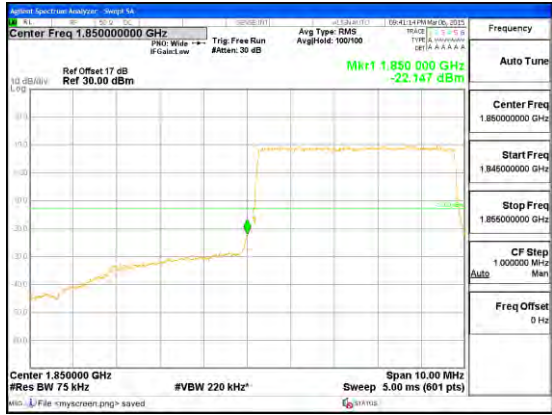
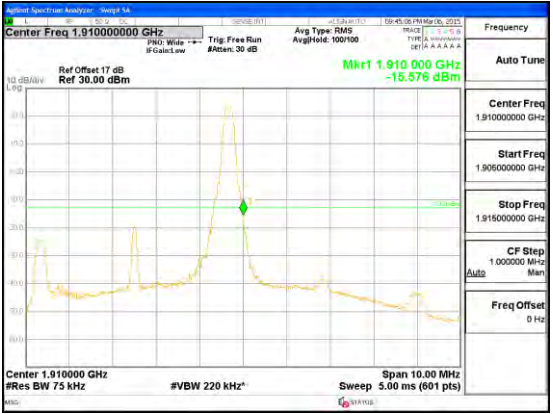

<p>Band LTE2 15MHz 16QAM</p>	 <p>Band LTE2 15MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE2 15MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE2 15MHz 16QAM</p>	 <p>Band LTE2 15MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE2 15MHz CBE 16QAM High Channel FRB.gif</p>

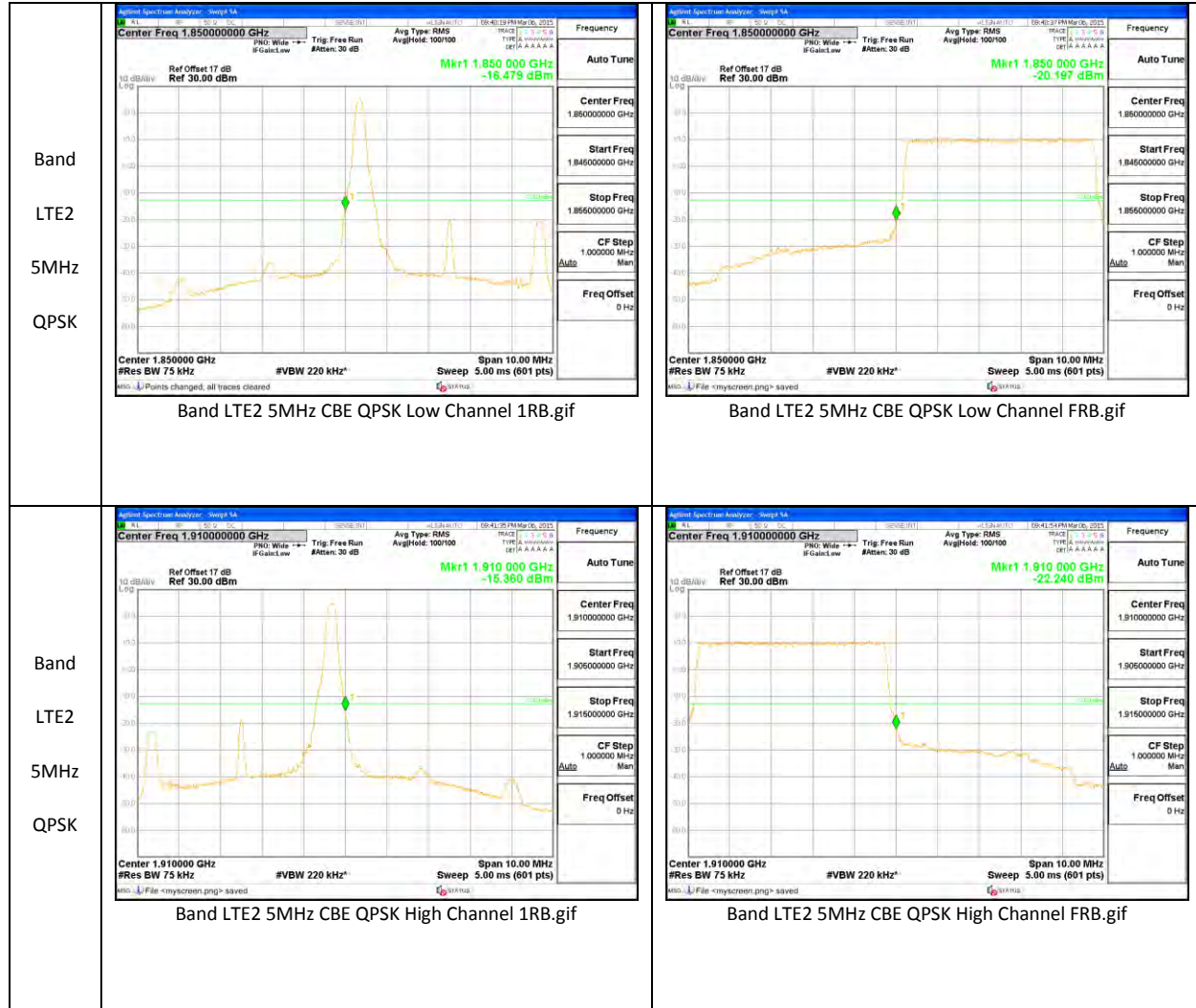


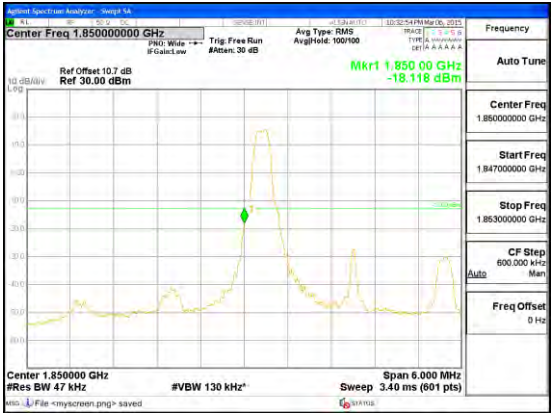
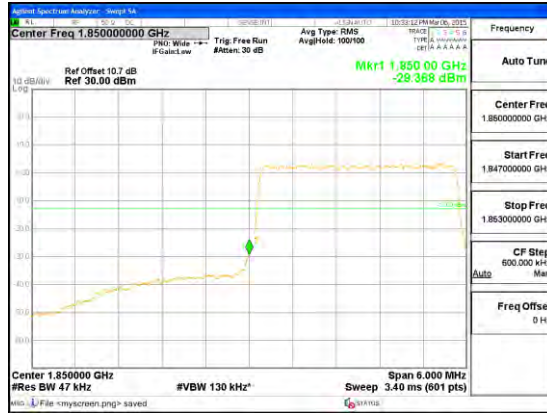
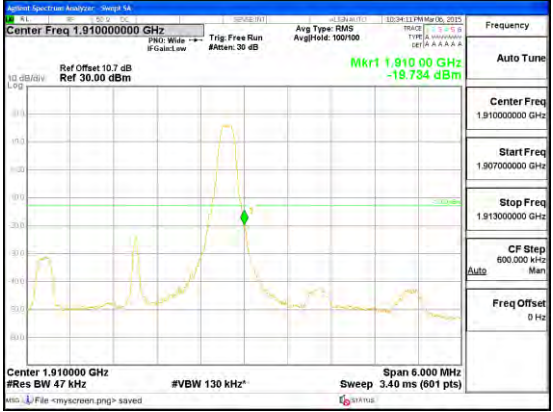

<p>Band LTE2 10MHz 16QAM</p>	 <p>Band LTE2 10MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE2 10MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE2 10MHz 16QAM</p>	 <p>Band LTE2 10MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE2 10MHz CBE 16QAM High Channel FRB.gif</p>

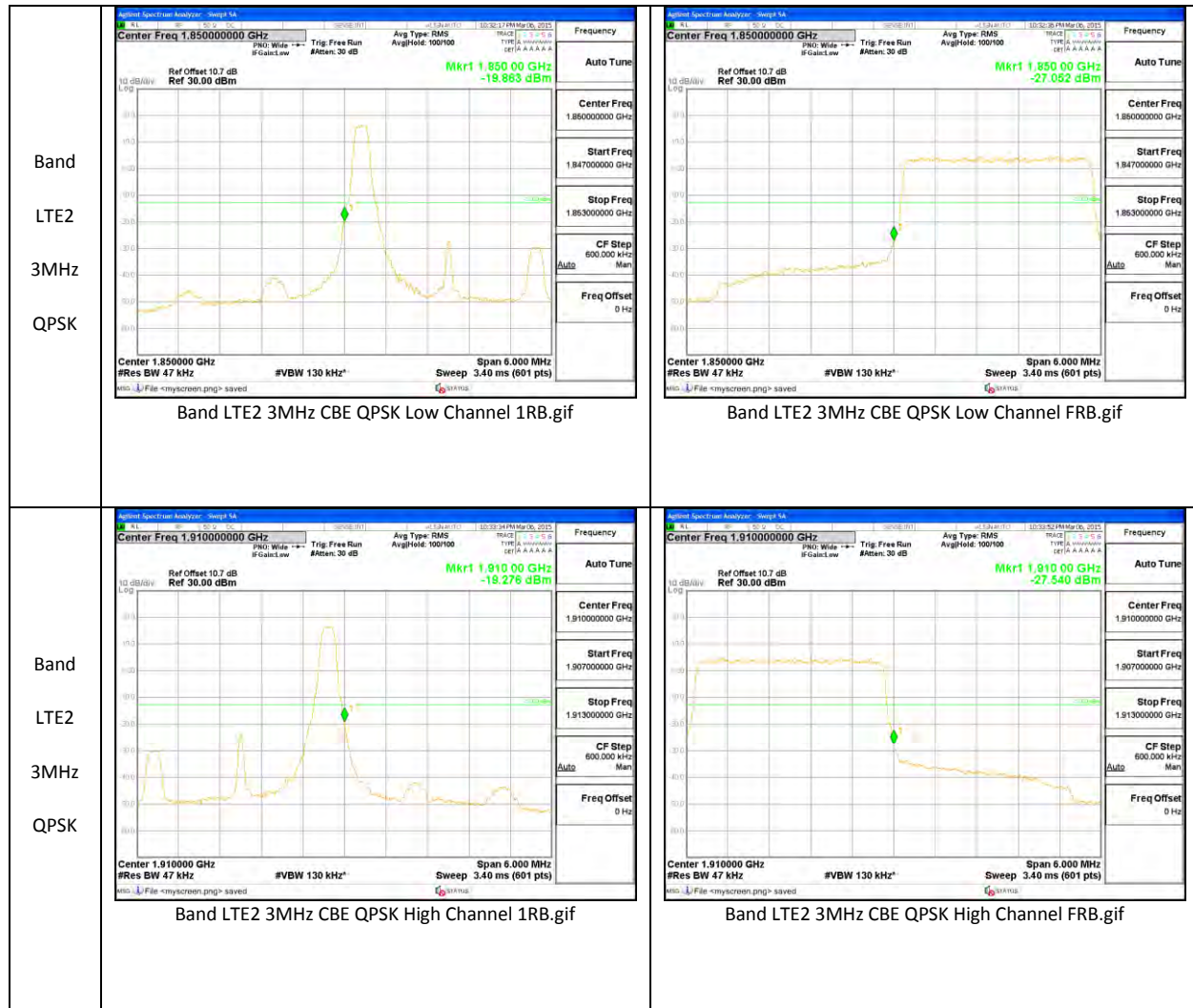


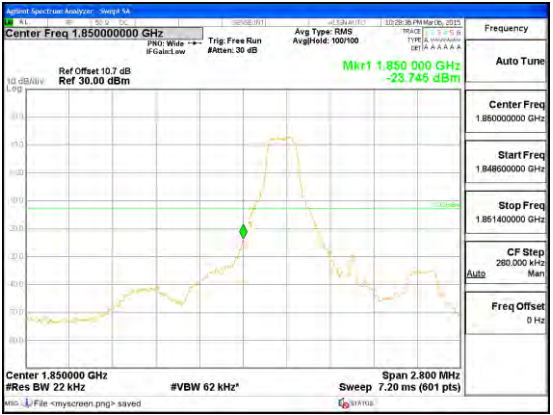
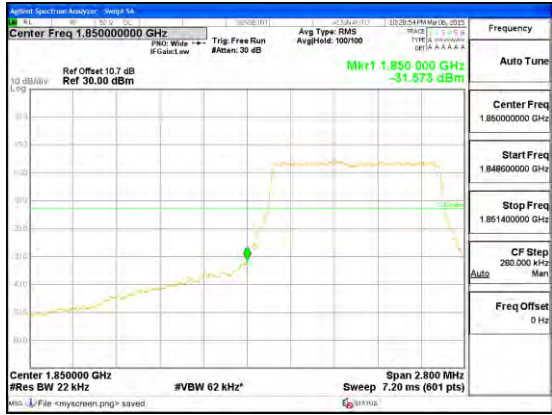
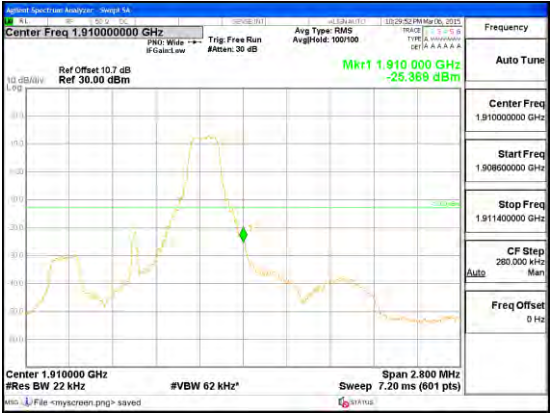
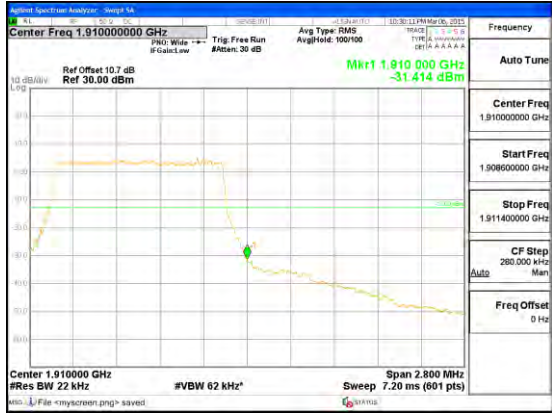


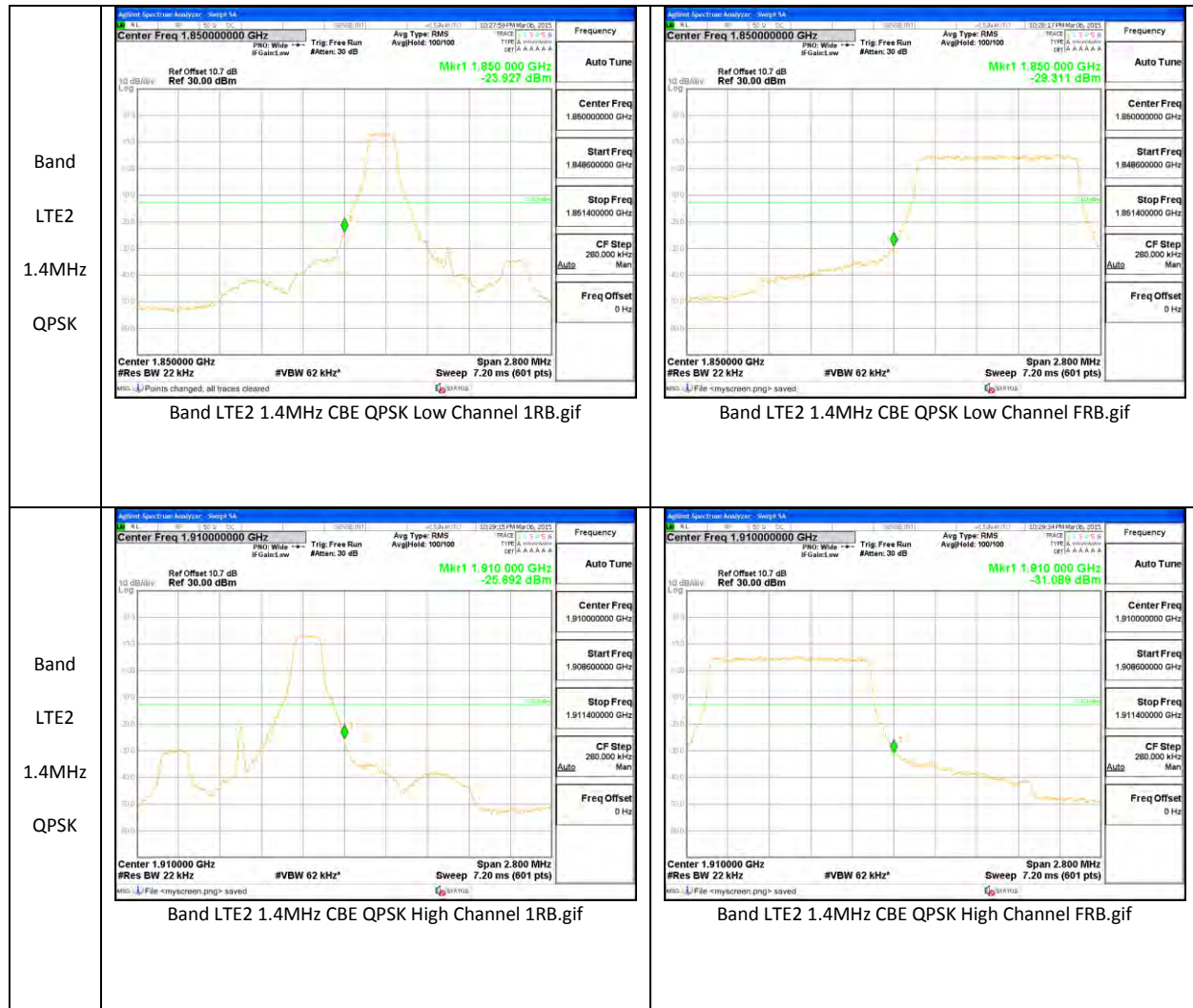
<p>Band LTE2 5MHz 16QAM</p>	 <p>Band LTE2 5MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE2 5MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE2 5MHz 16QAM</p>	 <p>Band LTE2 5MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE2 5MHz CBE 16QAM High Channel FRB.gif</p>



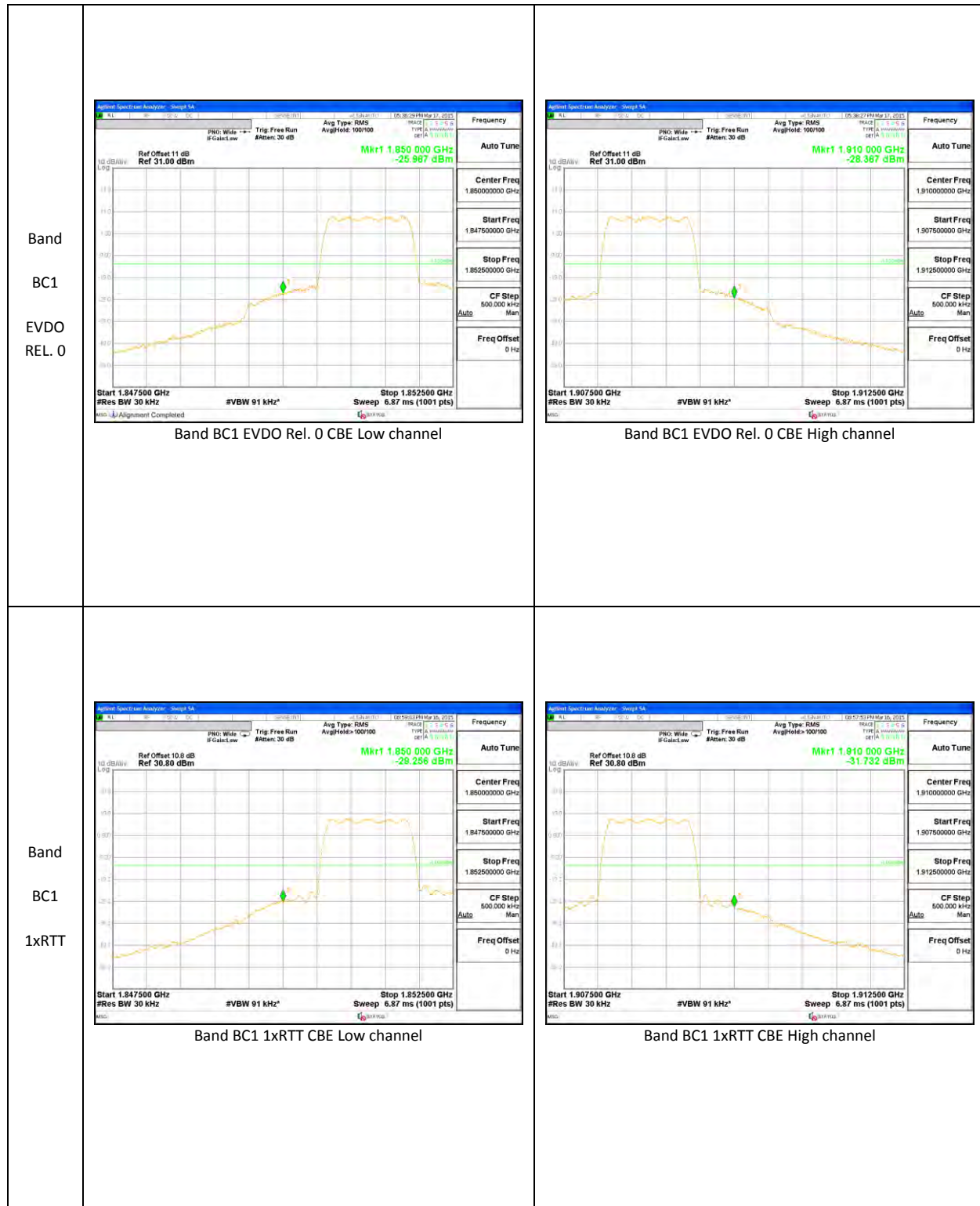
<p>Band LTE2 3MHz 16QAM</p>	 <p>Band LTE2 3MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE2 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE2 3MHz 16QAM</p>	 <p>Band LTE2 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE2 3MHz CBE 16QAM High Channel FRB.gif</p>



<p>Band LTE2 1.4MHz 16QAM</p>	 <p>Band LTE2 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE2 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE2 1.4MHz 16QAM</p>	 <p>Band LTE2 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE2 1.4MHz CBE 16QAM High Channel FRB.gif</p>

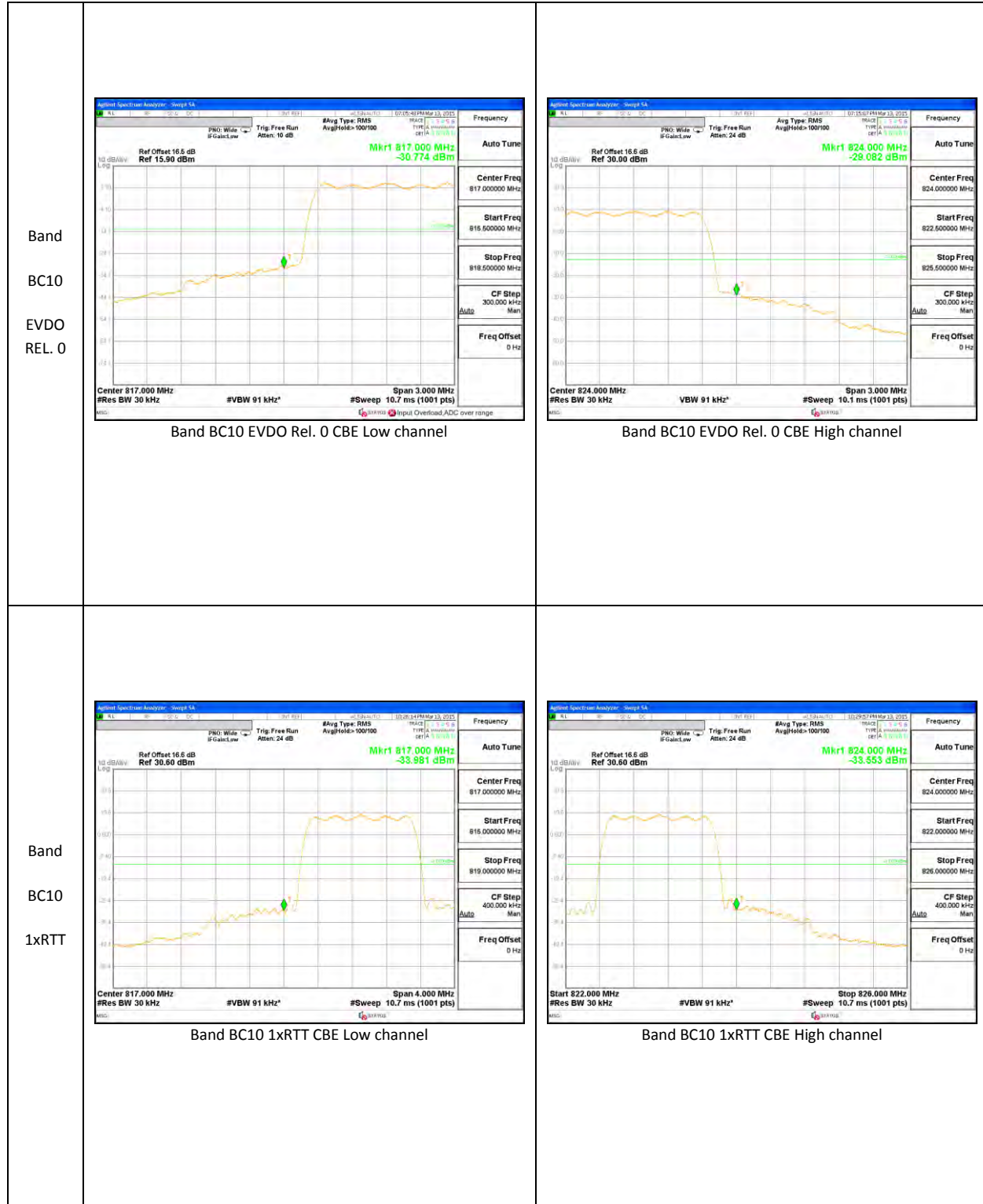


**CDMA**









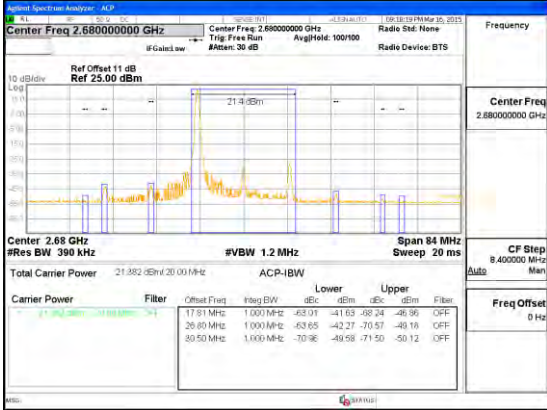
### 10.2.2. EMISSION MASK PLOTS

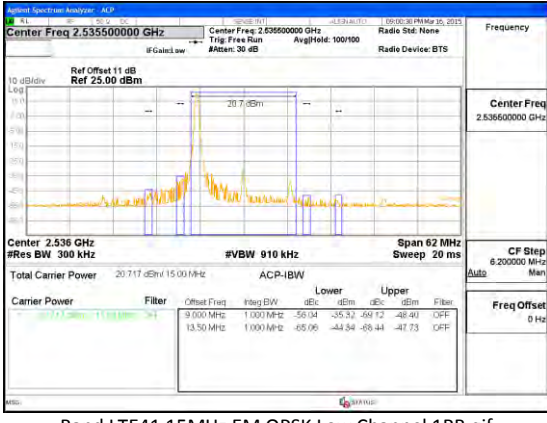
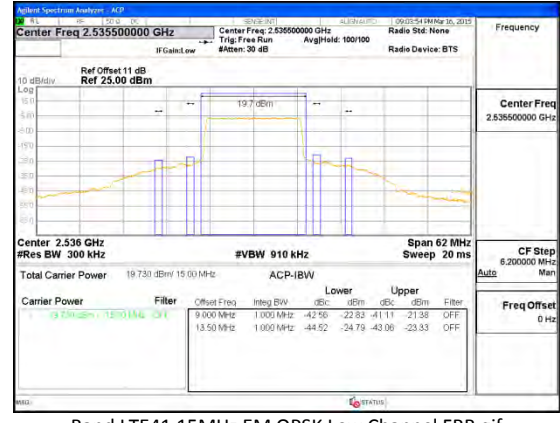
#### LTE Band 41

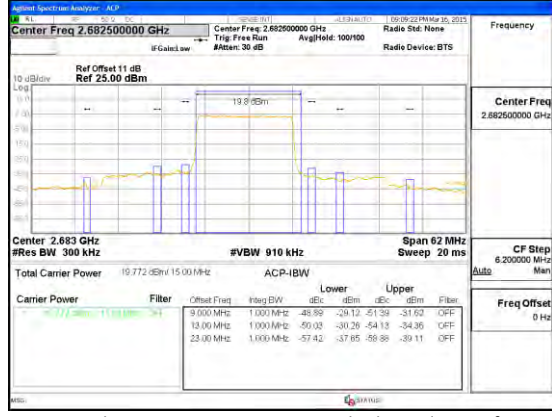
<p>Band LTE41 20MHz 16QAM</p>	<thead> <tr> <th>Carrier Power</th> <th>Filter</th> <th>Offset Freq</th> <th>Insig BW</th> <th>Lower</th> <th>Upper</th> <th>Filter</th> </tr> </thead> <tbody> <tr> <td>12.00 MHz</td> <td>1000 MHz</td> <td>-59.12</td> <td>-38.42</td> <td>-59.90</td> <td>-48.19</td> <td>OFF</td> </tr> <tr> <td>16.00 MHz</td> <td>1000 MHz</td> <td>-65.63</td> <td>-44.92</td> <td>-64.92</td> <td>-49.21</td> <td>OFF</td> </tr> </tbody>	Carrier Power	Filter	Offset Freq	Insig BW	Lower	Upper	Filter	12.00 MHz	1000 MHz	-59.12	-38.42	-59.90	-48.19	OFF	16.00 MHz	1000 MHz	-65.63	-44.92	-64.92	-49.21	OFF
Carrier Power	Filter	Offset Freq	Insig BW	Lower	Upper	Filter																
12.00 MHz	1000 MHz	-59.12	-38.42	-59.90	-48.19	OFF																
16.00 MHz	1000 MHz	-65.63	-44.92	-64.92	-49.21	OFF																

Band LTE41 20MHz EM 16QAM Low Channel 1RB.gif

 | Carrier Power | Filter | Offset Freq | Insig BW | Lower | Upper | Filter | | --- | --- | --- | --- | --- | --- | --- | | 12.00 MHz | 1000 MHz | -51.44 | -32.64 | -53.77 | -34.97 | OFF | | 16.00 MHz | 1000 MHz | -53.68 | -34.87 | -55.09 | -39.29 | OFF |  Band LTE41 20MHz EM 16QAM Low Channel FRB.gif || Band LTE41 20MHz QPSK | | Carrier Power | Filter | Offset Freq | Insig BW | Lower | Upper | Filter | | --- | --- | --- | --- | --- | --- | --- | | 12.00 MHz | 1000 MHz | -57.40 | -36.68 | -60.96 | -49.24 | OFF | | 16.00 MHz | 1000 MHz | -67.09 | -46.36 | -69.77 | -49.05 | OFF |  Band LTE41 20MHz EM QPSK Low Channel 1RB.gif | | Carrier Power | Filter | Offset Freq | Insig BW | Lower | Upper | Filter | | --- | --- | --- | --- | --- | --- | --- | | 12.00 MHz | 1000 MHz | -51.44 | -32.64 | -53.77 | -34.97 | OFF | | 16.00 MHz | 1000 MHz | -53.68 | -34.87 | -55.09 | -39.29 | OFF |  Band LTE41 20MHz EM QPSK Low Channel FRB.gif |

<p>Band LTE41 20MHz 16QAM</p>	 <p>Center Freq 2.68000000 GHz          #Res BW 390 kHz          #VBW 1.2 MHz          Span 84 MHz          Sweep 20 ms          Total Carrier Power 19.404 dBm 20.00 MHz          ACP-IBW          Lower Upper          Carrier Power Filter Offset Freq Integ BW dEb dEm dEb dEm Filter          11.50 MHz 1.000 MHz -56.41 -37.00 -59.07 -49.67 OFF          15.50 MHz 1.000 MHz -44.71 -45.31 -49.26 -49.89 OFF          30.50 MHz 1.000 MHz -69.06 -49.85 -69.46 -50.05 OFF</p>	 <p>Center Freq 2.68000000 GHz          #Res BW 390 kHz          #VBW 1.2 MHz          Span 84 MHz          Sweep 20 ms          Total Carrier Power 18.764 dBm 20.00 MHz          ACP-IBW          Lower Upper          Carrier Power Filter Offset Freq Integ BW dEb dEm dEb dEm Filter          11.50 MHz 1.000 MHz -48.94 -30.19 -50.88 -32.21 OFF          15.50 MHz 1.000 MHz -49.65 -30.68 -52.61 -33.95 OFF          30.50 MHz 1.000 MHz -55.99 -40.23 -60.26 -41.49 OFF</p>
<p>Band LTE41 20MHz QPSK</p>	 <p>Center Freq 2.68000000 GHz          #Res BW 390 kHz          #VBW 1.2 MHz          Span 84 MHz          Sweep 20 ms          Total Carrier Power 21.382 dBm 20.00 MHz          ACP-IBW          Lower Upper          Carrier Power Filter Offset Freq Integ BW dEb dEm dEb dEm Filter          17.81 MHz 1.000 MHz -63.01 -41.63 -58.24 -46.96 OFF          26.00 MHz 1.000 MHz -63.65 -42.21 -70.57 -48.19 OFF          30.50 MHz 1.000 MHz -70.96 -49.58 -71.50 -50.12 OFF</p>	 <p>Center Freq 2.68000000 GHz          #Res BW 390 kHz          #VBW 1.2 MHz          Span 84 MHz          Sweep 20 ms          Total Carrier Power 19.771 dBm 20.00 MHz          ACP-IBW          Lower Upper          Carrier Power Filter Offset Freq Integ BW dEb dEm dEb dEm Filter          11.50 MHz 1.000 MHz -50.74 -30.97 -50.60 -32.83 OFF          15.50 MHz 1.000 MHz -51.98 -32.22 -53.92 -34.15 OFF          30.50 MHz 1.000 MHz -61.11 -41.84 -61.51 -41.74 OFF</p>

<p>Band LTE41 15MHz 16QAM</p>	 <p>Band LTE41 15MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE41 15MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 15MHz QPSK</p>	 <p>Band LTE41 15MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE41 15MHz EM QPSK Low Channel FRB.gif</p>

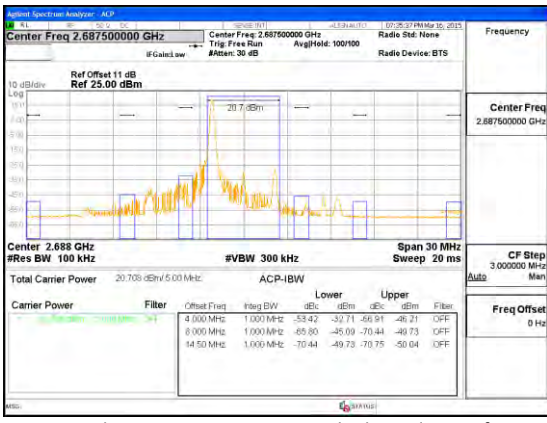
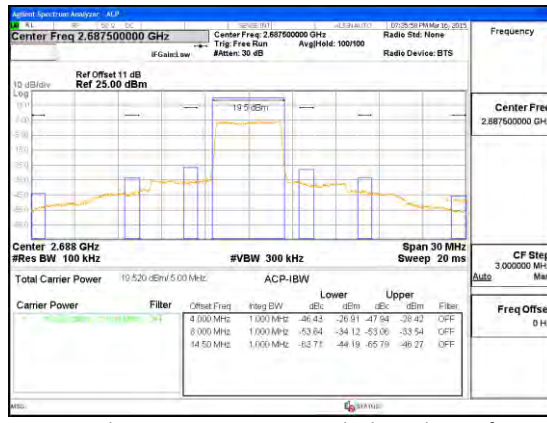
<p>Band LTE41 15MHz 16QAM</p>	 <p>Band LTE41 15MHz EM 16QAM High Channel 1RB.gif</p>	 <p>Band LTE41 15MHz EM 16QAM High Channel FRB.gif</p>
<p>Band LTE41 15MHz QPSK</p>	 <p>Band LTE41 15MHz EM QPSK High Channel 1RB.gif</p>	 <p>Band LTE41 15MHz EM QPSK High Channel FRB.gif</p>



<p>Band LTE41 10MHz 16QAM</p>	 <p>Center Freq 2.68500000 GHz              #Res BW 200 kHz              #VBW 620 kHz              Span 52 MHz              Sweep 20 ms              Total Carrier Power 19.630 dBm 10.00 MHz              ACP-IBW              Lower Upper              Carrier Power Filter Offset Freq Integ BW dE C dE C dE Filter Freq Offset</p> <table border="1"> <tr> <td>5.944 MHz</td> <td>1.000 MHz</td> <td>-60.29</td> <td>-40.66</td> <td>-57.71</td> <td>-48.68</td> <td>OFF</td> <td></td> </tr> <tr> <td>13.21 MHz</td> <td>1.000 MHz</td> <td>-64.15</td> <td>-44.53</td> <td>-65.32</td> <td>-45.69</td> <td>OFF</td> <td></td> </tr> <tr> <td>15.50 MHz</td> <td>1.000 MHz</td> <td>-69.40</td> <td>-49.77</td> <td>-69.77</td> <td>-50.14</td> <td>OFF</td> <td></td> </tr> </table>	5.944 MHz	1.000 MHz	-60.29	-40.66	-57.71	-48.68	OFF		13.21 MHz	1.000 MHz	-64.15	-44.53	-65.32	-45.69	OFF		15.50 MHz	1.000 MHz	-69.40	-49.77	-69.77	-50.14	OFF		 <p>Center Freq 2.68500000 GHz              #Res BW 200 kHz              #VBW 620 kHz              Span 52 MHz              Sweep 20 ms              Total Carrier Power 18.651 dBm 10.00 MHz              ACP-IBW              Lower Upper              Carrier Power Filter Offset Freq Integ BW dE C dE C dE Filter Freq Offset</p> <table border="1"> <tr> <td>5.944 MHz</td> <td>1.000 MHz</td> <td>-45.95</td> <td>-27.29</td> <td>-47.95</td> <td>-29.30</td> <td>OFF</td> <td></td> </tr> <tr> <td>10.50 MHz</td> <td>1.000 MHz</td> <td>-49.48</td> <td>-30.83</td> <td>-50.04</td> <td>-31.39</td> <td>OFF</td> <td></td> </tr> <tr> <td>15.50 MHz</td> <td>1.000 MHz</td> <td>-55.41</td> <td>-36.76</td> <td>-55.01</td> <td>-37.25</td> <td>OFF</td> <td></td> </tr> </table>	5.944 MHz	1.000 MHz	-45.95	-27.29	-47.95	-29.30	OFF		10.50 MHz	1.000 MHz	-49.48	-30.83	-50.04	-31.39	OFF		15.50 MHz	1.000 MHz	-55.41	-36.76	-55.01	-37.25	OFF	
5.944 MHz	1.000 MHz	-60.29	-40.66	-57.71	-48.68	OFF																																												
13.21 MHz	1.000 MHz	-64.15	-44.53	-65.32	-45.69	OFF																																												
15.50 MHz	1.000 MHz	-69.40	-49.77	-69.77	-50.14	OFF																																												
5.944 MHz	1.000 MHz	-45.95	-27.29	-47.95	-29.30	OFF																																												
10.50 MHz	1.000 MHz	-49.48	-30.83	-50.04	-31.39	OFF																																												
15.50 MHz	1.000 MHz	-55.41	-36.76	-55.01	-37.25	OFF																																												
<p>Band LTE41 10MHz QPSK</p>	 <p>Center Freq 2.68500000 GHz              #Res BW 200 kHz              #VBW 620 kHz              Span 52 MHz              Sweep 20 ms              Total Carrier Power 20.928 dBm 10.00 MHz              ACP-IBW              Lower Upper              Carrier Power Filter Offset Freq Integ BW dE C dE C dE Filter Freq Offset</p> <table border="1"> <tr> <td>5.944 MHz</td> <td>1.000 MHz</td> <td>-60.66</td> <td>-39.85</td> <td>-58.31</td> <td>-47.50</td> <td>OFF</td> <td></td> </tr> <tr> <td>13.20 MHz</td> <td>1.000 MHz</td> <td>-62.83</td> <td>-42.12</td> <td>-64.36</td> <td>-43.58</td> <td>OFF</td> <td></td> </tr> <tr> <td>15.50 MHz</td> <td>1.000 MHz</td> <td>-70.51</td> <td>-49.71</td> <td>-71.02</td> <td>-50.21</td> <td>OFF</td> <td></td> </tr> </table>	5.944 MHz	1.000 MHz	-60.66	-39.85	-58.31	-47.50	OFF		13.20 MHz	1.000 MHz	-62.83	-42.12	-64.36	-43.58	OFF		15.50 MHz	1.000 MHz	-70.51	-49.71	-71.02	-50.21	OFF		 <p>Center Freq 2.68500000 GHz              #Res BW 200 kHz              #VBW 620 kHz              Span 52 MHz              Sweep 20 ms              Total Carrier Power 19.847 dBm 10.00 MHz              ACP-IBW              Lower Upper              Carrier Power Filter Offset Freq Integ BW dE C dE C dE Filter Freq Offset</p> <table border="1"> <tr> <td>5.944 MHz</td> <td>1.000 MHz</td> <td>-45.61</td> <td>-28.76</td> <td>-50.52</td> <td>-30.67</td> <td>OFF</td> <td></td> </tr> <tr> <td>10.50 MHz</td> <td>1.000 MHz</td> <td>-46.96</td> <td>-30.12</td> <td>-51.59</td> <td>-31.75</td> <td>OFF</td> <td></td> </tr> <tr> <td>15.50 MHz</td> <td>1.000 MHz</td> <td>-57.01</td> <td>-37.17</td> <td>-56.68</td> <td>-38.84</td> <td>OFF</td> <td></td> </tr> </table>	5.944 MHz	1.000 MHz	-45.61	-28.76	-50.52	-30.67	OFF		10.50 MHz	1.000 MHz	-46.96	-30.12	-51.59	-31.75	OFF		15.50 MHz	1.000 MHz	-57.01	-37.17	-56.68	-38.84	OFF	
5.944 MHz	1.000 MHz	-60.66	-39.85	-58.31	-47.50	OFF																																												
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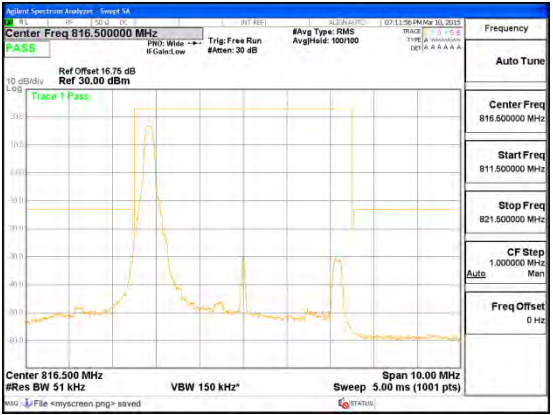
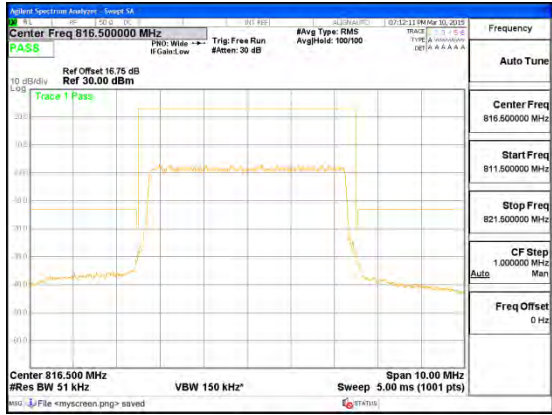
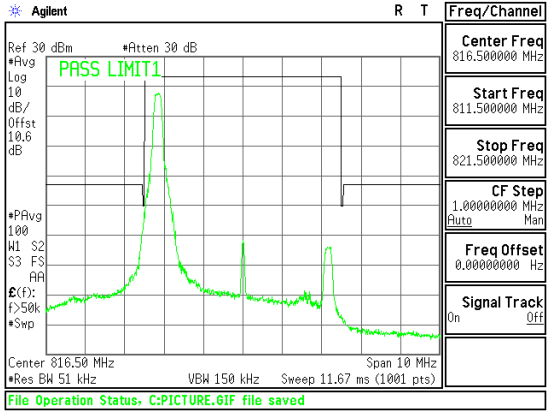
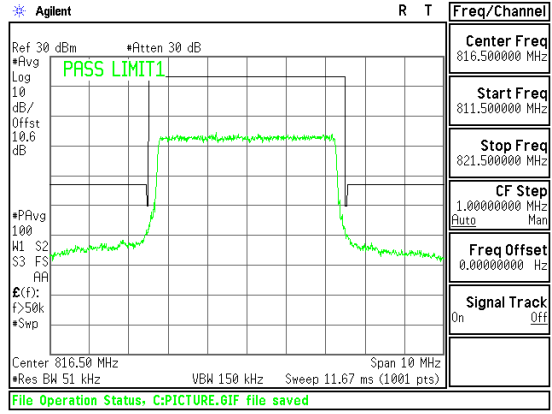
<p>Band LTE41 5MHz 16QAM</p>	<p>Band LTE41 5MHz EM 16QAM Low Channel 1RB.gif</p>	<p>Band LTE41 5MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 5MHz QPSK</p>	<p>Band LTE41 5MHz EM QPSK Low Channel 1RB.gif</p>	<p>Band LTE41 5MHz EM QPSK Low Channel FRB.gif</p>

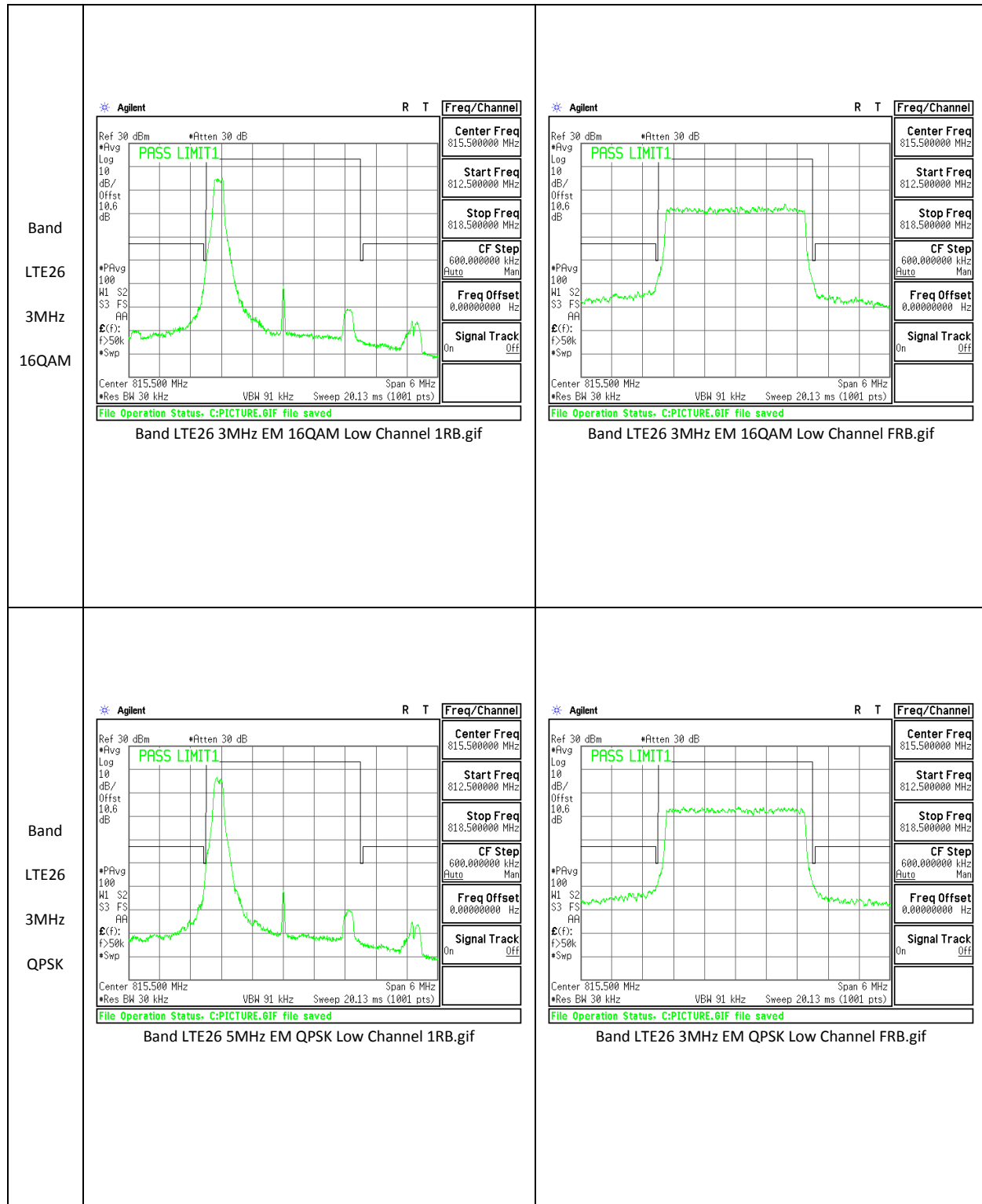


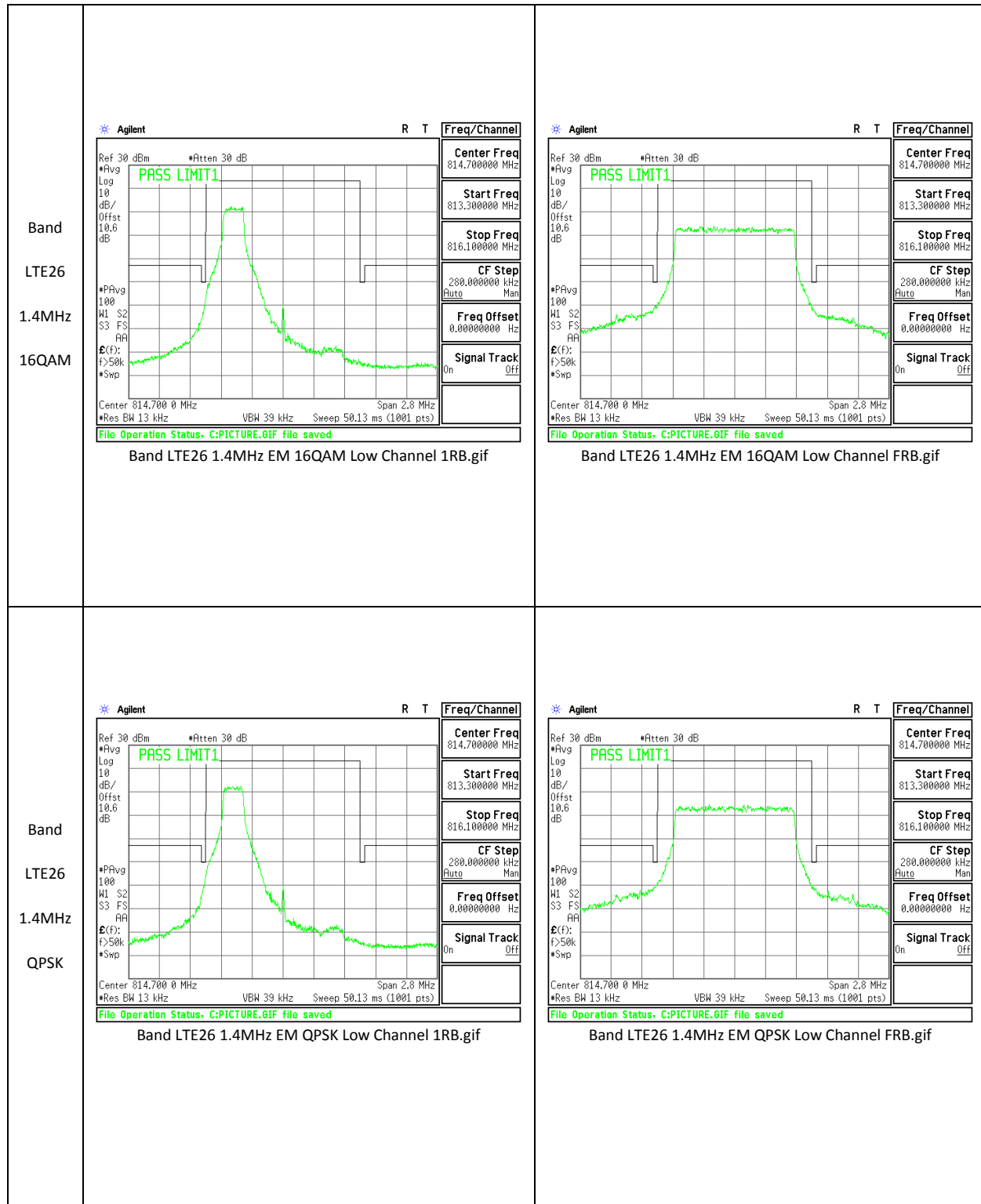
<p>Band LTE41 5MHz 16QAM</p>	 <p>Band LTE41 5MHz EM 16QAM High Channel 1RB.gif</p>	 <p>Band LTE41 5MHz EM 16QAM High Channel FRB.gif</p>
<p>Band LTE41 5MHz QPSK</p>	 <p>Band LTE41 5MHz EM QPSK High Channel 1RB.gif</p>	 <p>Band LTE41 5MHz EM QPSK High Channel FRB.gif</p>

**LTE Band 26**

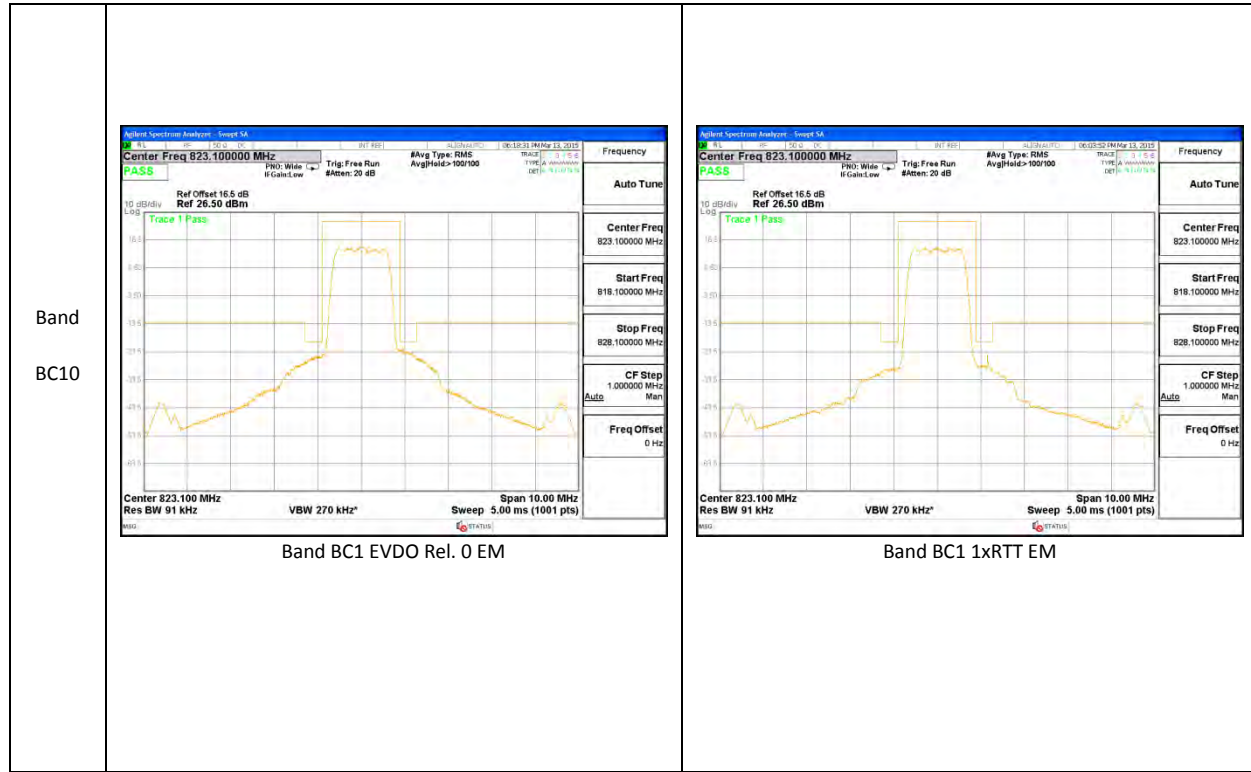
<p>Band                  LTE26                  10MHz                  16QAM</p>	<p>Band LTE26 10MHz EM 16QAM Low Channel 1RB.gif</p>	<p>Band LTE26 10MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band                  LTE26                  10MHz                  QPSK</p>	<p>Band LTE26 10MHz EM QPSK Low Channel 1RB.gif</p>	<p>Band LTE26 10MHz EM QPSK Low Channel FRB.gif</p>

<p>Band LTE26 5MHz 16QAM</p>	 <p>Band LTE26 5MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 5MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 5MHz QPSK</p>	 <p>Band LTE26 5MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE26 5MHz EM QPSK Low Channel FRB.gif</p>





**CDMA BC10**



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

### TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems 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.

### **SOP**

For each out of band emissions measurement:

- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

### MODES TESTED

LTE and CDMA

### RESULTS

**10.3.1. OUT OF BAND EMISSIONS RESULT**

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE41	20	QPSK	2506	-37.302	-25	-12.302
			2593	-37.694	-25	-12.694
			2680	-36.963	-25	-11.963
		16QAM	2506	-37.738	-25	-12.738
			2593	-37.649	-25	-12.649
			2680	-37.297	-25	-12.297
	15	QPSK	2503.5	-38.355	-25	-13.355
			2593	-37.556	-25	-12.556
			2682.5	-38.245	-25	-13.245
		16QAM	2503.5	-37.775	-25	-12.775
			2593	-38.224	-25	-13.224
			2682.5	-37.058	-25	-12.058
	10	QPSK	2501	-38.004	-25	-13.004
			2593	-37.066	-25	-12.066
			2685	-37.383	-25	-12.383
		16QAM	2501	-37.206	-25	-12.206
			2593	-37.932	-25	-12.932
			2685	-37.706	-25	-12.706
	5	QPSK	2498.5	-39.377	-25	-14.377
			2593	-37.81	-25	-12.81
			2687.5	-37.265	-25	-12.265
		16QAM	2498.5	-38.047	-25	-13.047
			2593	-37.629	-25	-12.629
			2687.5	-37.972	-25	-12.972



Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE26	15	QPSK	821.5	-27.87	-13	-14.87
			831.5	-27.63	-13	-14.63
			841.5	-27.62	-13	-14.62
		16QAM	821.5	-27.41	-13	-14.41
			831.5	-27.49	-13	-14.49
			841.5	-27.07	-13	-14.07
	10	QPSK	819	-21.25	-13	-8.25
			831.5	-20.79	-13	-7.79
			844	-21.00	-13	-8.00
		16QAM	819	-22.03	-13	-9.03
			831.5	-21.13	-13	-8.13
			844	-21.00	-13	-8.00
	5	QPSK	816.5	-21.25	-13	-8.25
			831.5	-20.79	-13	-7.79
			846.5	-21.00	-13	-8.00
		16QAM	816.5	-19.43	-13	-6.43
			831.5	-20.95	-13	-7.95
			846.5	-20.74	-13	-7.74
	3	QPSK	815.5	-21.78	-13	-8.78
			831.5	-21.39	-13	-8.39
			847.5	-22.00	-13	-9.00
		16QAM	815.5	-21.17	-13	-8.17
			831.5	-21.76	-13	-8.76
			847.5	-21.13	-13	-8.13
	1.4	QPSK	814.7	-21.54	-13	-8.54
			831.5	-21.93	-13	-8.93
			848.3	-22.24	-13	-9.24
16QAM		814.7	-21.69	-13	-8.69	
		831.5	-21.45	-13	-8.45	
		848.3	-21.49	-13	-8.49	

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	20	QPSK	1860	-21.35	-13	-8.35
			1882.5	-22.12	-13	-9.12
			1905	-21.51	-13	-8.51
		16QAM	1860	-22.33	-13	-9.33
			1882.5	-22.35	-13	-9.35
			1905	-20.64	-13	-7.64
	15	QPSK	1857.5	-21.61	-13	-8.61
			1882.5	-21.52	-13	-8.52
			1907.5	-21.82	-13	-8.82
		16QAM	1857.5	-22.19	-13	-9.19
			1882.5	-21.97	-13	-8.97
			1907.5	-21.07	-13	-8.07
	10	QPSK	1855	-21.90	-13	-8.90
			1882.5	-22.10	-13	-9.10
			1910	-17.08	-13	-4.08
		16QAM	1855	-22.38	-13	-9.38
			1882.5	-21.96	-13	-8.96
			1910	-17.08	-13	-4.08

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	5	QPSK	1852.5	-21.71	-13	-8.71
			1882.5	-22.25	-13	-9.25
			1912.5	-19.33	-13	-6.33
		16QAM	1852.5	-21.32	-13	-8.32
			1882.5	-21.81	-13	-8.81
			1912.5	-19.33	-13	-6.33
	3	QPSK	1851.5	-21.91	-13	-8.91
			1882.5	-21.72	-13	-8.72
			1913.5	-21.80	-13	-8.80
		16QAM	1851.5	-21.87	-13	-8.87
			1882.5	-21.68	-13	-8.68
			1913.5	-21.63	-13	-8.63
	1.4	QPSK	1850.7	-21.53	-13	-8.53
			1882.5	-21.40	-13	-8.40
			1914.3	-21.53	-13	-8.53
		16QAM	1850.7	-21.09	-13	-8.09
			1882.5	-22.35	-13	-9.35
			1914.3	-22.08	-13	-9.08

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE12	10	QPSK	704	-27.96	-13	-14.96
			707.5	-27.32	-13	-14.32
			711	-35.09	-13	-22.09
		16QAM	704	-27.48	-13	-14.48
			707.5	-27.69	-13	-14.69
			711	-33.99	-13	-20.99
	5	QPSK	701.5	-27.69	-13	-14.69
			707.5	-27.59	-13	-14.59
			713.5	-32.95	-13	-19.95
		16QAM	701.5	-27.61	-13	-14.61
			707.5	-27.29	-13	-14.29
			713.5	-32.45	-13	-19.45
	3	QPSK	700.5	-27.99	-13	-14.99
			707.5	-27.68	-13	-14.68
			714.5	-26.79	-13	-13.79
		16QAM	700.5	-27.37	-13	-14.37
			707.5	-26.60	-13	-13.60
			714.5	-27.69	-13	-14.69
	1.4	QPSK	699.7	-28.06	-13	-15.06
			707.5	-27.31	-13	-14.31
			715.3	-28.09	-13	-15.09
		16QAM	699.7	-28.00	-13	-15.00
			707.5	-27.21	-13	-14.21
			715.3	-27.34	-13	-14.34

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	10	QPSK	829	-27.65	-13	-14.65
			836.5	-25.61	-13	-12.61
			844	-33.31	-13	-20.31
		16QAM	829	-27.12	-13	-14.12
			836.5	-26.88	-13	-13.88
			844	-34.14	-13	-21.14
	5	QPSK	826.5	-27.43	-13	14.43
			836.5	-27.89	-13	-14.83
			846.5	-27.33	-13	14.33
		16QAM	826.5	-27.90	-13	-14.90
			836.5	-28.07	-13	-15.07
			846.5	-29.54	-13	16.54
	3	QPSK	825.5	-27.95	-13	-14.95
			836.5	-27.28	-13	-14.28
			847.5	-27.91	-13	-14.91
		16QAM	825.5	-27.34	-13	-14.34
			836.5	-27.63	-13	-14.63
			847.5	-27.60	-13	-14.6
	1.4	QPSK	824.7	-27.26	-13	-14.26
			836.5	-28.20	-13	-15.2
			848.3	-27.76	-13	-14.76
		16QAM	824.7	-27.37	-13	-14.37
			836.5	-27.18	-13	-14.18
			848.3	-28.08	-13	-15.08

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	20	QPSK	1720	-22.271	-13	-9.271
			1732.5	-23.377	-13	-10.377
			1745	-23.428	-13	-10.428
		16QAM	1720	-22.066	-13	-9.066
			1732.5	-23.231	-13	-10.231
			1745	-24.094	-13	-11.094
	15	QPSK	1717.5	-23.223	-13	-10.223
			1732.5	-22.457	-13	-9.457
			1747.5	-23.942	-13	-10.942
		16QAM	1717.5	-22.429	-13	-9.429
			1732.5	-23.049	-13	-10.049
			1747.5	-24.417	-13	-11.417
	10	QPSK	1715	-21.997	-13	-8.997
			1732.5	-18.076	-13	-5.076
			1750	-22.889	-13	-9.889
		16QAM	1715	-22.946	-13	-9.946
			1732.5	-23.282	-13	-10.282
			1750	-23.744	-13	-10.744

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	5	QPSK	1712.5	-21.264	-13	-8.264
			1732.5	-20.419	-13	-7.419
			1752.5	-27.633	-13	-14.633
		16QAM	1712.5	-23.613	-13	-10.613
			1732.5	-24.91	-13	-11.91
			1752.5	-20.963	-13	-7.963
	3	QPSK	1711.5	-27.386	-13	-14.386
			1732.5	-28.014	-13	-15.014
			1753.5	-27.809	-13	-14.809
		16QAM	1711.5	-27.199	-13	-14.199
			1732.5	-27.25	-13	-14.25
			1753.5	-27.897	-13	-14.897
	1.4	QPSK	1710.7	-27.751	-13	-14.751
			1732.5	-27.879	-13	-14.879
			1754.3	-27.4	-13	-14.4
		16QAM	1710.7	-27.707	-13	-14.707
			1732.5	-27.612	-13	-14.612
			1754.3	-27.018	-13	-14.018

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	20	QPSK	1860	-27.95	-13	-14.95
			1880	-27.93	-13	-14.93
			1900	-28.09	-13	-15.09
		16QAM	1860	-27.08	-13	-14.08
			1880	-27.74	-13	-14.74
			1900	-27.37	-13	-14.37
	15	QPSK	1857.5	-27.82	-13	-14.82
			1880	-27.74	-13	-14.74
			1902.5	-27.37	-13	-14.37
		16QAM	1857.5	-26.96	-13	-13.96
			1880	-27.87	-13	-14.87
			1902.5	-27.48	-13	-14.48
	10	QPSK	1855	-21.55	-13	-8.55
			1880	-21.39	-13	-8.39
			1905	-21.30	-13	-8.30
		16QAM	1855	-21.77	-13	-8.77
			1880	-20.82	-13	-7.82
			1905	-21.95	-13	-8.95



Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	5	QPSK	1852.5	-19.65	-13	-6.65
			1880	-21.38	-13	-8.38
			1907.5	-21.55	-13	-8.55
		16QAM	1852.5	-21.49	-13	-8.49
			1880	-20.32	-13	-7.32
			1907.5	-22.26	-13	-9.26
	3	QPSK	1851.5	-27.47	-13	-14.47
			1880	-27.41	-13	-14.41
			1908.5	-28.03	-13	-15.03
		16QAM	1851.5	-27.66	-13	-14.66
			1880	-27.78	-13	-14.78
			1908.5	-27.58	-13	-14.58
	1.4	QPSK	1850.7	-27.80	-13	-14.80
			1880	-27.48	-13	-14.48
			1909.3	-28.28	-13	-15.28
		16QAM	1850.7	-27.56	-13	-14.56
			1880	-27.69	-13	-14.69
			1909.3	-27.68	-13	-14.68

**CDMA**

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
BC10	RTT	817.9	-35.80	-13	-22.80
		820.5	-35.46	-13	-22.46
		823.1	-34.48	-13	-21.48
BC10	EVDO REL. 0	817.9	-34.85	-13	-21.85
		820.5	-34.49	-13	-21.49
		823.1	-35.45	-13	-22.45
BC0	RTT	824.7	-28.64	-13	-15.64
		836.52	-29.42	-13	-16.42
		848.31	-28.92	-13	-15.92
BC0	EVDO REL. 0	824.7	-29.93	-13	-16.93
		836.52	-28.92	-13	-15.92
		848.31	-28.74	-13	-15.74
BC1	RTT	1851.25	-34.88	-13	-21.88
		1880	-34.95	-13	-21.95
		1908.75	-35.03	-13	-22.03
BC1	EVDO REL. 0	1851.25	-34.94	-13	-21.94
		1880	-34.79	-13	-21.79
		1908.75	-34.09	-13	-21.09

### 10.3.2. OUT OF BAND EMISSIONS PLOTS

#### LTE Band 41

