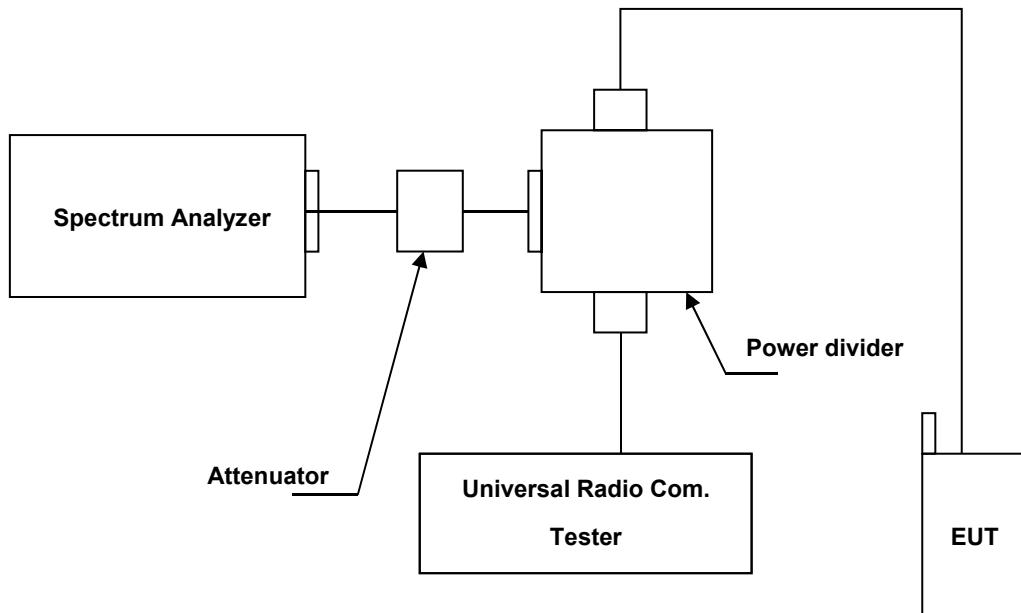


7.2. Setup

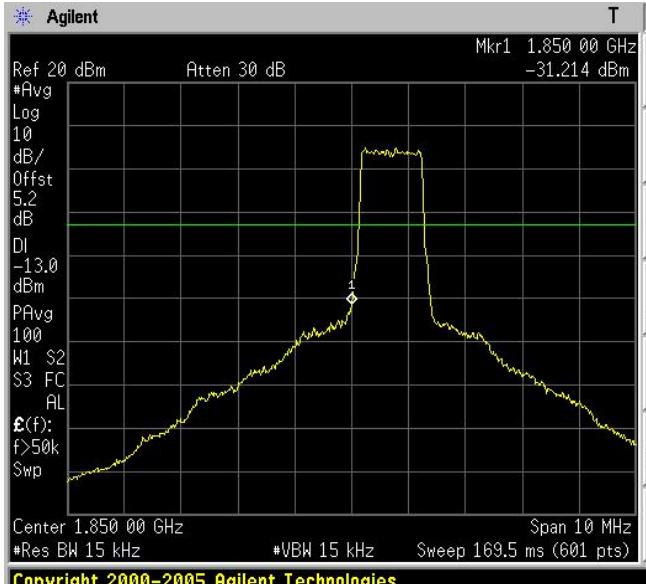
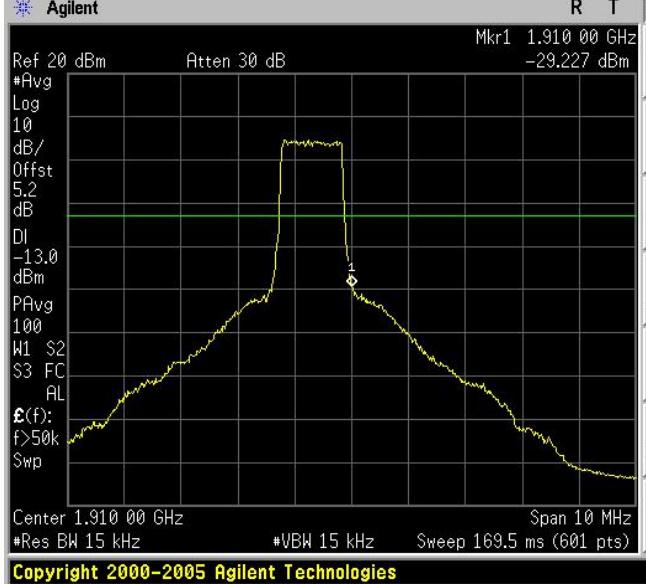


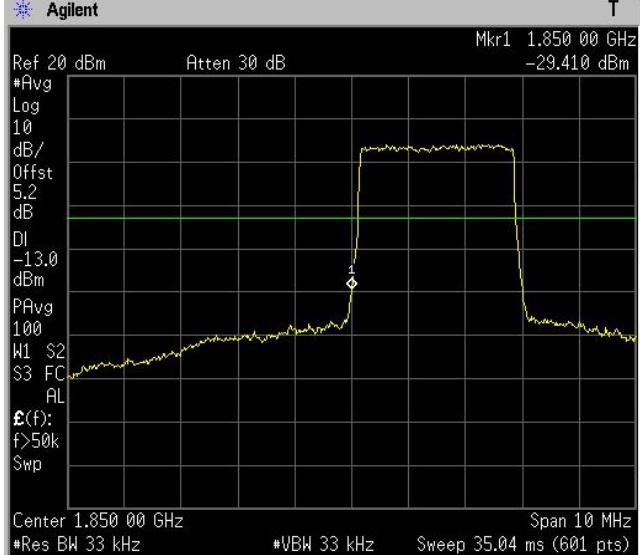
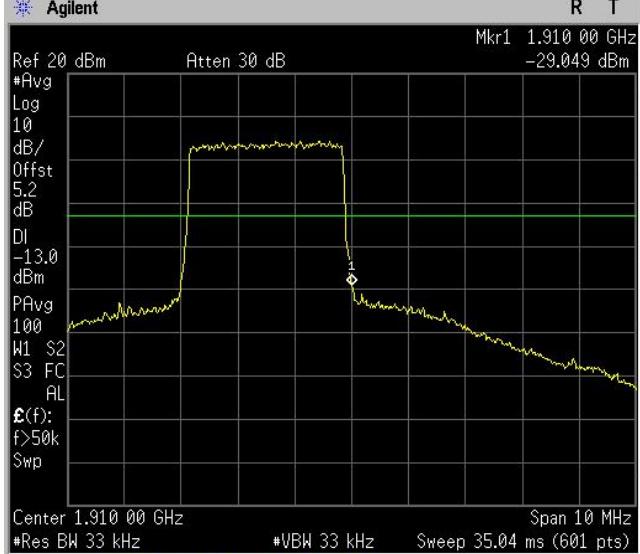
7.3. Test Procedure

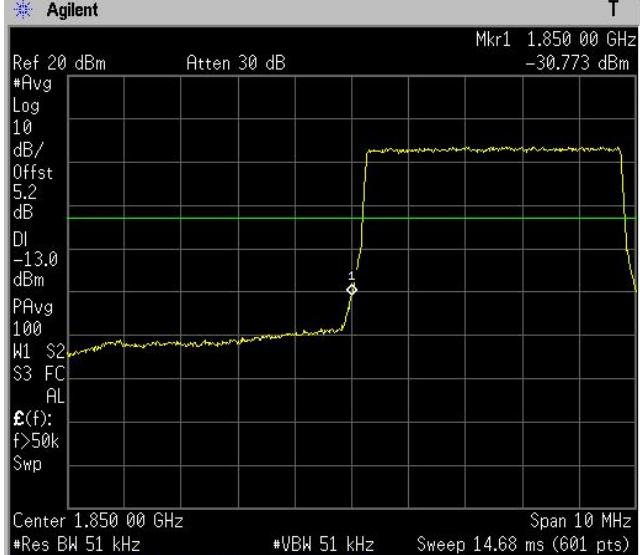
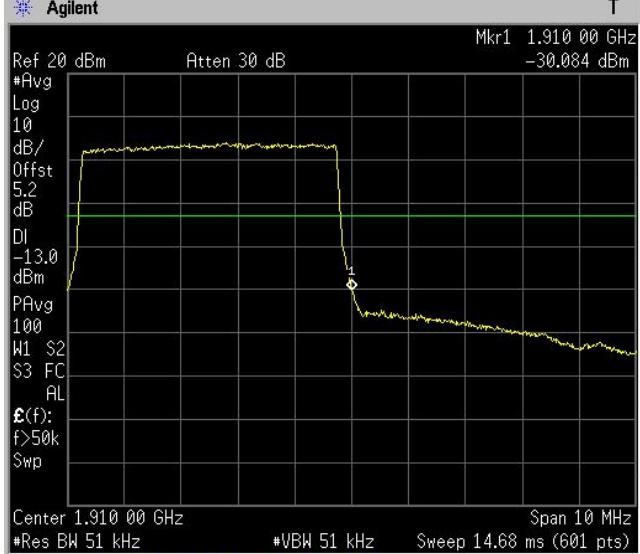
The measurement is made according to FCC rules:

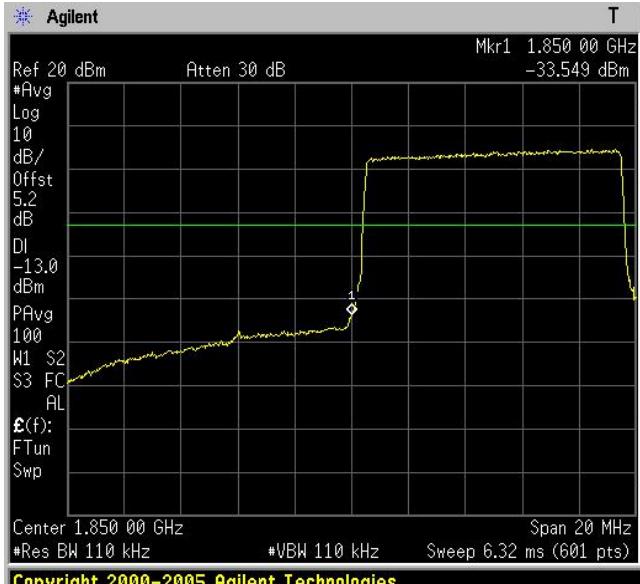
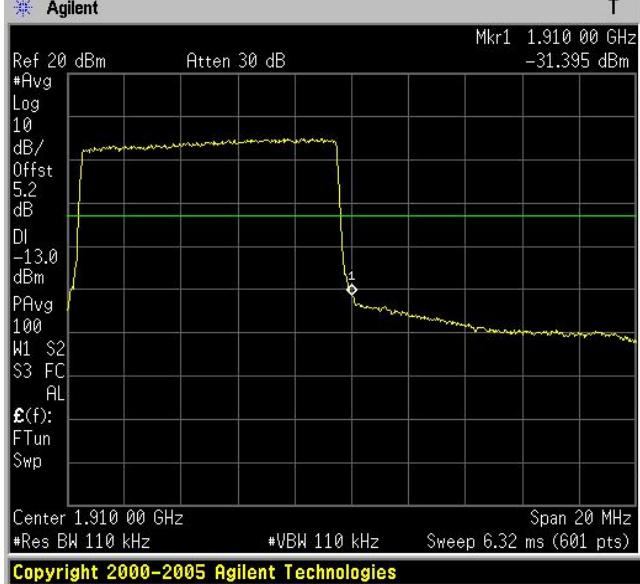
- a. The EUT was set up for the maximum peak power with LTE/WCDMA link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.)
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss are the worst loss 7.2 dB in the transmitted path track.
- c. The center frequency of spectrum is the band edge frequency and span is 10 MHz. RB of the resolution bandwidth of at least one percent of the emission bandwidth.
- d. Record the max trace plot into the test report.

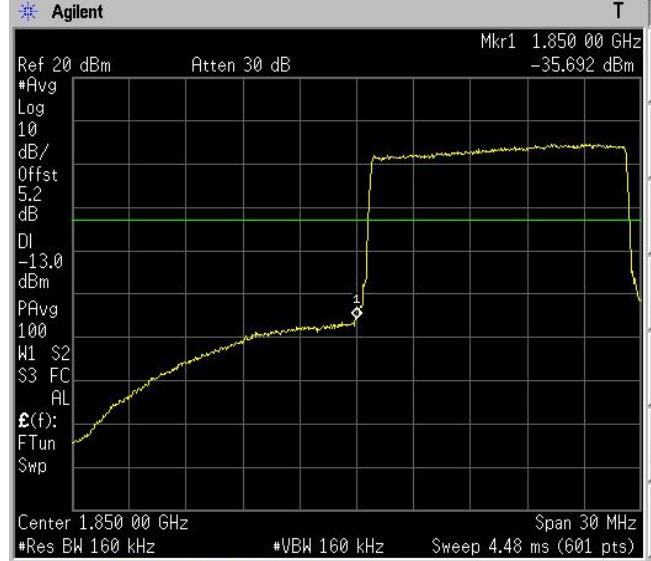
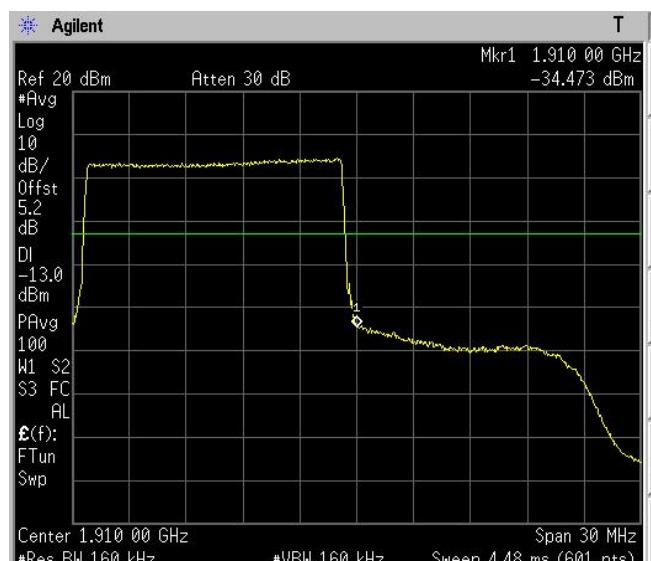
7.4. Test Result

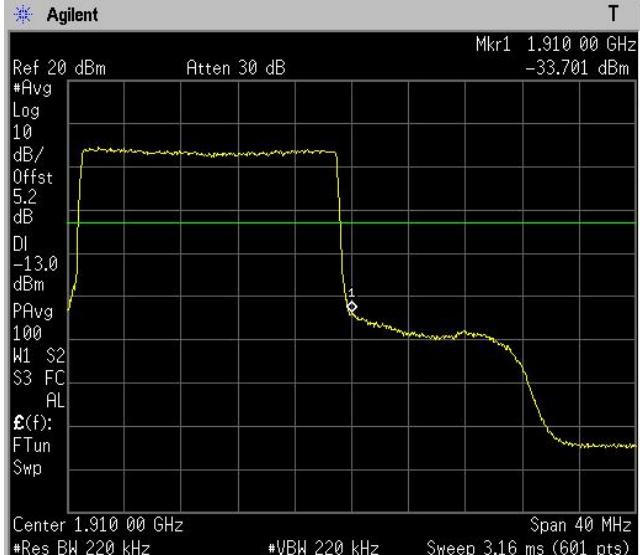
Frequency	LTE Band 2	Channel Bandwidth	1.4 MHz	RB Allocated	6								
Lower Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.850 00 GHz -31.214 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PAvg 100 W1 S2 S3 FC AL</p> <p>$\epsilon(f)$: f>50k Swp</p> <p>Center 1.850 00 GHz Span 10 MHz</p> <p>#Res BW 15 kHz *VBW 15 kHz Sweep 169.5 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<p>T</p> <table border="1"> <tr><td>Freq/Channel</td></tr> <tr><td>Center Freq 1.8500000 GHz</td></tr> <tr><td>Start Freq 1.8450000 GHz</td></tr> <tr><td>Stop Freq 1.8550000 GHz</td></tr> <tr><td>CF Step 1.0000000 MHz Auto Man</td></tr> <tr><td>Freq Offset 0.0000000 Hz</td></tr> <tr><td>Signal Track On Off</td></tr> <tr><td> </td></tr> </table>	Freq/Channel	Center Freq 1.8500000 GHz	Start Freq 1.8450000 GHz	Stop Freq 1.8550000 GHz	CF Step 1.0000000 MHz Auto Man	Freq Offset 0.0000000 Hz	Signal Track On Off		
Freq/Channel													
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Start Freq 1.8450000 GHz													
Stop Freq 1.8550000 GHz													
CF Step 1.0000000 MHz Auto Man													
Freq Offset 0.0000000 Hz													
Signal Track On Off													
Higher Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.910 00 GHz -29.227 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PAvg 100 W1 S2 S3 FC AL</p> <p>$\epsilon(f)$: f>50k Swp</p> <p>Center 1.910 00 GHz Span 10 MHz</p> <p>#Res BW 15 kHz *VBW 15 kHz Sweep 169.5 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<p>R T</p> <table border="1"> <tr><td>Freq/Channel</td></tr> <tr><td>Center Freq 1.9100000 GHz</td></tr> <tr><td>Start Freq 1.9050000 GHz</td></tr> <tr><td>Stop Freq 1.9150000 GHz</td></tr> <tr><td>CF Step 1.0000000 MHz Auto Man</td></tr> <tr><td>Freq Offset 0.0000000 Hz</td></tr> <tr><td>Signal Track On Off</td></tr> <tr><td> </td></tr> </table>	Freq/Channel	Center Freq 1.9100000 GHz	Start Freq 1.9050000 GHz	Stop Freq 1.9150000 GHz	CF Step 1.0000000 MHz Auto Man	Freq Offset 0.0000000 Hz	Signal Track On Off		
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Start Freq 1.9050000 GHz													
Stop Freq 1.9150000 GHz													
CF Step 1.0000000 MHz Auto Man													
Freq Offset 0.0000000 Hz													
Signal Track On Off													

Frequency	LTE Band 2	Channel Bandwidth	3 MHz	RB Allocated	15
Lower Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.850 00 GHz -29.410 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PrAvg 100</p> <p>W1 S2 S3 FC AL</p> <p>$\Sigma(f)$: f>50k</p> <p>Swp</p> <p>Center 1.850 00 GHz Span 10 MHz</p> <p>#Res BW 33 kHz *VBW 33 kHz Sweep 35.04 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<p>T</p> <p>Freq/Channel</p> <p>Center Freq 1.8500000 GHz</p> <p>Start Freq 1.8450000 GHz</p> <p>Stop Freq 1.8550000 GHz</p> <p>CF Step 1.0000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p>	
Higher Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.910 00 GHz -29.049 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PrAvg 100</p> <p>W1 S2 S3 FC AL</p> <p>$\Sigma(f)$: f>50k</p> <p>Swp</p> <p>Center 1.910 00 GHz Span 10 MHz</p> <p>#Res BW 33 kHz *VBW 33 kHz Sweep 35.04 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<p>R T</p> <p>Freq/Channel</p> <p>Center Freq 1.9100000 GHz</p> <p>Start Freq 1.9050000 GHz</p> <p>Stop Freq 1.9150000 GHz</p> <p>CF Step 1.0000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p>	

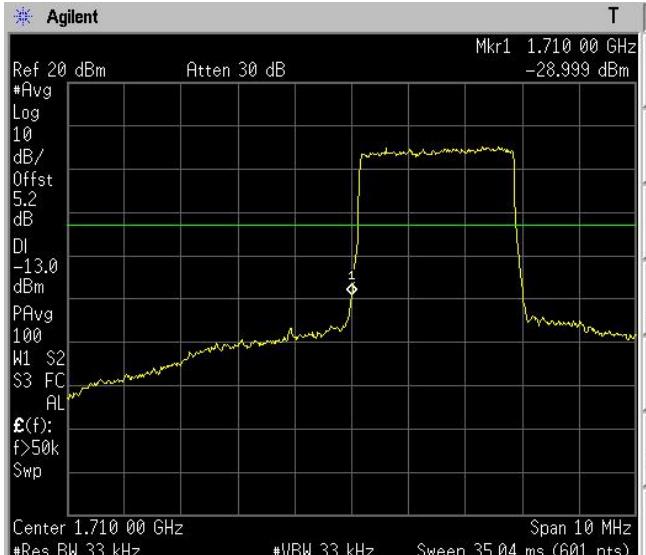
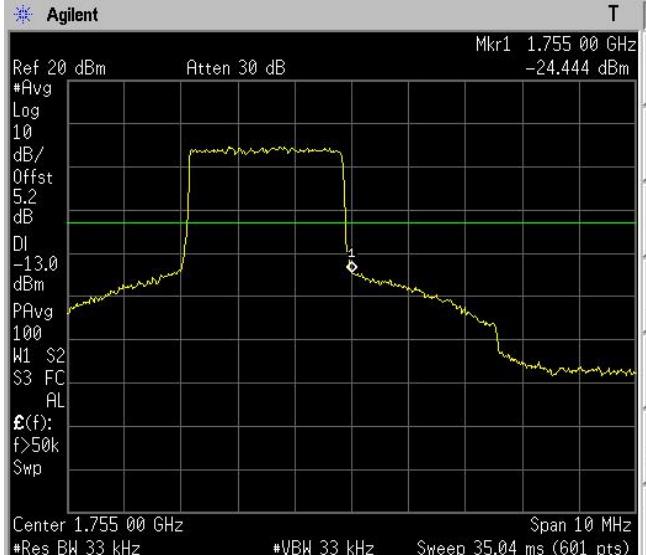
Frequency	LTE Band 2	Channel Bandwidth	5 MHz	RB Allocated	25																		
Lower Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.850 00 GHz -30.773 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PAvg 100</p> <p>W1 S2 S3 FC AL</p> <p>$\Sigma(f)$: f>50k Swp</p> <p>Center 1.850 00 GHz Span 10 MHz</p> <p>#Res BW 51 kHz *VBW 51 kHz Sweep 14.68 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td><td>1.8500000 GHz</td></tr> <tr> <td>Start Freq</td><td>1.8450000 GHz</td></tr> <tr> <td>Stop Freq</td><td>1.8550000 GHz</td></tr> <tr> <td>CF Step</td><td>1.0000000 MHz</td></tr> <tr> <td>Auto</td><td>Man</td></tr> <tr> <td>Freq Offset</td><td>0.0000000 Hz</td></tr> <tr> <td>Signal Track</td><td>On Off</td></tr> <tr> <td colspan="2"></td></tr> </tbody> </table>	Freq/Channel		Center Freq	1.8500000 GHz	Start Freq	1.8450000 GHz	Stop Freq	1.8550000 GHz	CF Step	1.0000000 MHz	Auto	Man	Freq Offset	0.0000000 Hz	Signal Track	On Off			
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Stop Freq	1.8550000 GHz																						
CF Step	1.0000000 MHz																						
Auto	Man																						
Freq Offset	0.0000000 Hz																						
Signal Track	On Off																						
Higher Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.910 00 GHz -30.084 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PAvg 100</p> <p>W1 S2 S3 FC AL</p> <p>$\Sigma(f)$: f>50k Swp</p> <p>Center 1.910 00 GHz Span 10 MHz</p> <p>#Res BW 51 kHz *VBW 51 kHz Sweep 14.68 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td><td>1.9100000 GHz</td></tr> <tr> <td>Start Freq</td><td>1.9050000 GHz</td></tr> <tr> <td>Stop Freq</td><td>1.9150000 GHz</td></tr> <tr> <td>CF Step</td><td>1.0000000 MHz</td></tr> <tr> <td>Auto</td><td>Man</td></tr> <tr> <td>Freq Offset</td><td>0.0000000 Hz</td></tr> <tr> <td>Signal Track</td><td>On Off</td></tr> <tr> <td colspan="2"></td></tr> </tbody> </table>	Freq/Channel		Center Freq	1.9100000 GHz	Start Freq	1.9050000 GHz	Stop Freq	1.9150000 GHz	CF Step	1.0000000 MHz	Auto	Man	Freq Offset	0.0000000 Hz	Signal Track	On Off			
Freq/Channel																							
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Stop Freq	1.9150000 GHz																						
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Freq Offset	0.0000000 Hz																						
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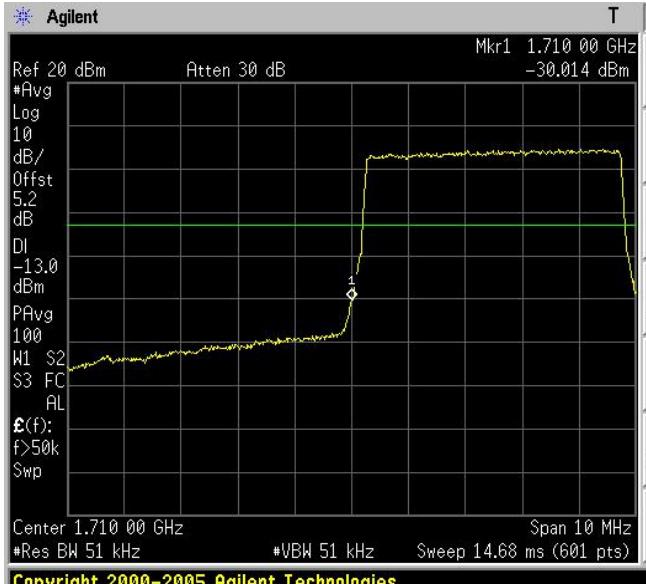
Frequency	LTE Band 2	Channel Bandwidth	10 MHz	RB Allocated	50
Lower Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.850 00 GHz -33.549 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PAvg 100</p> <p>W1 S2 S3 FC AL</p> <p>Σ(f): FTun Swp</p> <p>Center 1.850 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 6.32 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<p>Freq/Channel</p> <p>Center Freq 1.8500000 GHz</p> <p>Start Freq 1.8400000 GHz</p> <p>Stop Freq 1.8600000 GHz</p> <p>CF Step 2.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p>	
Higher Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.910 00 GHz -31.395 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PAvg 100</p> <p>W1 S2 S3 FC AL</p> <p>Σ(f): FTun Swp</p> <p>Center 1.910 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 6.32 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<p>Freq/Channel</p> <p>Center Freq 1.9100000 GHz</p> <p>Start Freq 1.9000000 GHz</p> <p>Stop Freq 1.9200000 GHz</p> <p>CF Step 2.0000000 MHz Auto Man</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p>	

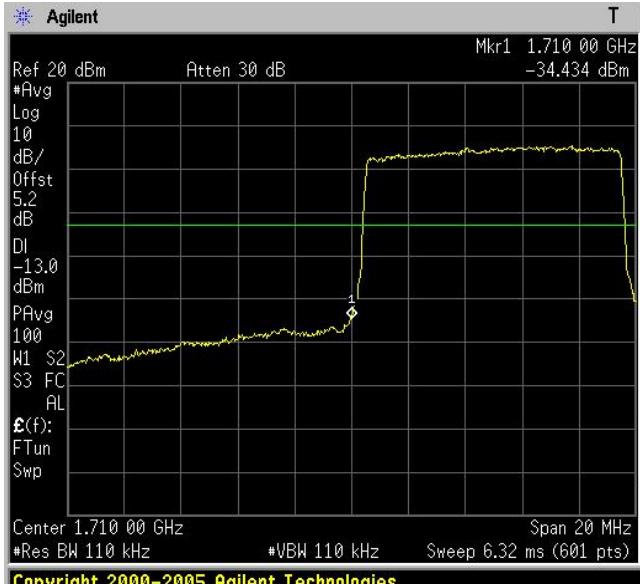
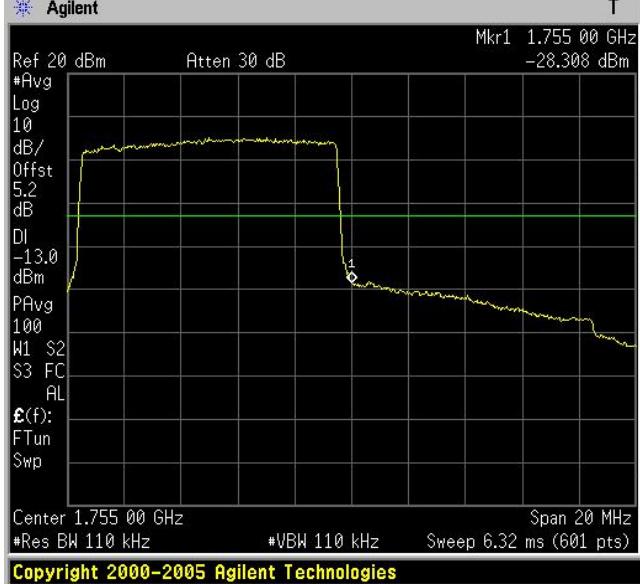
Frequency	LTE Band 2	Channel Bandwidth	15 MHz	RB Allocated	75																
Lower Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.850 00 GHz -35.692 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PAvg 100 W1 S2 S3 FC AL</p> <p>$E(f)$: FTun Swp</p> <p>Center 1.850 00 GHz #Res BW 160 kHz #VBW 160 kHz Sweep 4.48 ms (601 pts) Span 30 MHz</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td><td>1.8500000 GHz</td></tr> <tr> <td>Start Freq</td><td>1.8350000 GHz</td></tr> <tr> <td>Stop Freq</td><td>1.8650000 GHz</td></tr> <tr> <td>CF Step</td><td>3.0000000 MHz Auto Man</td></tr> <tr> <td>Freq Offset</td><td>0.0000000 Hz</td></tr> <tr> <td>Signal Track</td><td>On Off</td></tr> <tr> <td colspan="2"> </td></tr> </tbody> </table>	Freq/Channel		Center Freq	1.8500000 GHz	Start Freq	1.8350000 GHz	Stop Freq	1.8650000 GHz	CF Step	3.0000000 MHz Auto Man	Freq Offset	0.0000000 Hz	Signal Track	On Off			
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Stop Freq	1.8650000 GHz																				
CF Step	3.0000000 MHz Auto Man																				
Freq Offset	0.0000000 Hz																				
Signal Track	On Off																				
Higher Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.910 00 GHz -34.473 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PAvg 100 W1 S2 S3 FC AL</p> <p>$E(f)$: FTun Swp</p> <p>Center 1.910 00 GHz #Res BW 160 kHz #VBW 160 kHz Sweep 4.48 ms (601 pts) Span 30 MHz</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td><td>1.9100000 GHz</td></tr> <tr> <td>Start Freq</td><td>1.8950000 GHz</td></tr> <tr> <td>Stop Freq</td><td>1.9250000 GHz</td></tr> <tr> <td>CF Step</td><td>3.0000000 MHz Auto Man</td></tr> <tr> <td>Freq Offset</td><td>0.0000000 Hz</td></tr> <tr> <td>Signal Track</td><td>On Off</td></tr> <tr> <td colspan="2"> </td></tr> </tbody> </table>	Freq/Channel		Center Freq	1.9100000 GHz	Start Freq	1.8950000 GHz	Stop Freq	1.9250000 GHz	CF Step	3.0000000 MHz Auto Man	Freq Offset	0.0000000 Hz	Signal Track	On Off			
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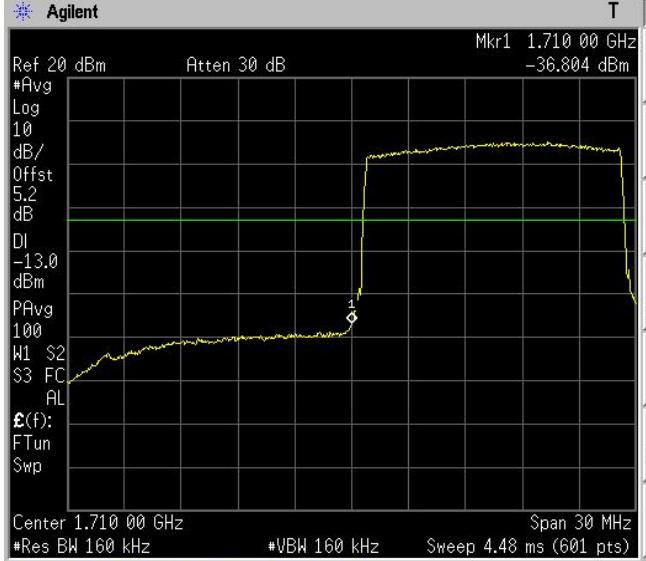
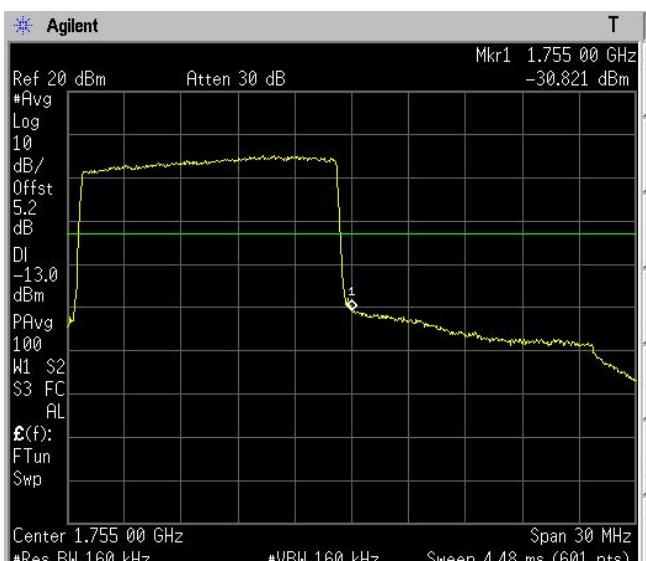
Frequency	LTE Band 2	Channel Bandwidth	20 MHz	RB Allocated	100																		
Lower Band Edge	 <p>Agilent Spectrum Analyzer Plot showing a signal at 1.850 GHz. The plot includes a legend for parameters like Ref 20 dBm, Atten 30 dB, #Avg, Log, dB/Offst, 5.2 dB, DI, -13.0 dBm, PAvg, 100, W1 S2, S3 FC, AL, E(f), FTun, and Swp. The plot shows a signal rising from -36.623 dBm to a plateau around -36 dBm. The center frequency is 1.850 00 GHz, and the span is 40 MHz.</p>			<table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td><td>1.8500000 GHz</td></tr> <tr> <td>Start Freq</td><td>1.8300000 GHz</td></tr> <tr> <td>Stop Freq</td><td>1.8700000 GHz</td></tr> <tr> <td>CF Step</td><td>4.0000000 MHz</td></tr> <tr> <td>Auto</td><td>Man</td></tr> <tr> <td>Freq Offset</td><td>0.0000000 Hz</td></tr> <tr> <td>Signal Track</td><td>On Off</td></tr> <tr> <td></td><td></td></tr> </tbody> </table>	Freq/Channel		Center Freq	1.8500000 GHz	Start Freq	1.8300000 GHz	Stop Freq	1.8700000 GHz	CF Step	4.0000000 MHz	Auto	Man	Freq Offset	0.0000000 Hz	Signal Track	On Off			
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Auto	Man																						
Freq Offset	0.0000000 Hz																						
Signal Track	On Off																						
Higher Band Edge	 <p>Agilent Spectrum Analyzer Plot showing a signal at 1.910 GHz. The plot includes a legend for parameters like Ref 20 dBm, Atten 30 dB, #Avg, Log, dB/Offst, 5.2 dB, DI, -13.0 dBm, PAvg, 100, W1 S2, S3 FC, AL, E(f), FTun, and Swp. The plot shows a signal rising from -33.701 dBm to a plateau around -33 dBm. The center frequency is 1.910 00 GHz, and the span is 40 MHz.</p>			<table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td><td>1.9100000 GHz</td></tr> <tr> <td>Start Freq</td><td>1.8900000 GHz</td></tr> <tr> <td>Stop Freq</td><td>1.9300000 GHz</td></tr> <tr> <td>CF Step</td><td>4.0000000 MHz</td></tr> <tr> <td>Auto</td><td>Man</td></tr> <tr> <td>Freq Offset</td><td>0.0000000 Hz</td></tr> <tr> <td>Signal Track</td><td>On Off</td></tr> <tr> <td></td><td></td></tr> </tbody> </table>	Freq/Channel		Center Freq	1.9100000 GHz	Start Freq	1.8900000 GHz	Stop Freq	1.9300000 GHz	CF Step	4.0000000 MHz	Auto	Man	Freq Offset	0.0000000 Hz	Signal Track	On Off			
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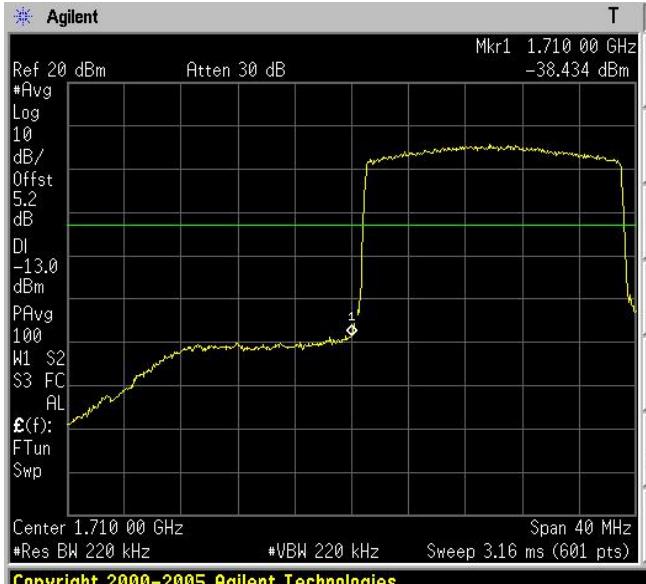
Frequency	LTE Band 4	Channel Bandwidth	1.4 MHz	RB Allocated	6														
Lower Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.710 00 GHz -30.800 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PrAvg 100</p> <p>W1 S2 S3 FC AL</p> <p>Σ(f): f>50k</p> <p>Swp</p> <p>Center 1.710 00 GHz Span 10 MHz</p> <p>#Res BW 15 kHz *VBW 15 kHz Sweep 169.5 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td><td>1.71000000 GHz</td></tr> <tr> <td>Start Freq</td><td>1.70500000 GHz</td></tr> <tr> <td>Stop Freq</td><td>1.71500000 GHz</td></tr> <tr> <td>CF Step</td><td>1.00000000 MHz</td></tr> <tr> <td>Freq Offset</td><td>0.00000000 Hz</td></tr> <tr> <td>Signal Track</td><td>On Off</td></tr> </tbody> </table>	Freq/Channel		Center Freq	1.71000000 GHz	Start Freq	1.70500000 GHz	Stop Freq	1.71500000 GHz	CF Step	1.00000000 MHz	Freq Offset	0.00000000 Hz	Signal Track	On Off	
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Signal Track	On Off																		
Higher Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.755 00 GHz -23.397 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PrAvg 100</p> <p>W1 S2 S3 FC AL</p> <p>Σ(f): f>50k</p> <p>Swp</p> <p>Center 1.755 00 GHz Span 10 MHz</p> <p>#Res BW 15 kHz *VBW 15 kHz Sweep 169.5 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td><td>1.75500000 GHz</td></tr> <tr> <td>Start Freq</td><td>1.75000000 GHz</td></tr> <tr> <td>Stop Freq</td><td>1.76000000 GHz</td></tr> <tr> <td>CF Step</td><td>1.00000000 MHz</td></tr> <tr> <td>Freq Offset</td><td>0.00000000 Hz</td></tr> <tr> <td>Signal Track</td><td>On Off</td></tr> </tbody> </table>	Freq/Channel		Center Freq	1.75500000 GHz	Start Freq	1.75000000 GHz	Stop Freq	1.76000000 GHz	CF Step	1.00000000 MHz	Freq Offset	0.00000000 Hz	Signal Track	On Off	
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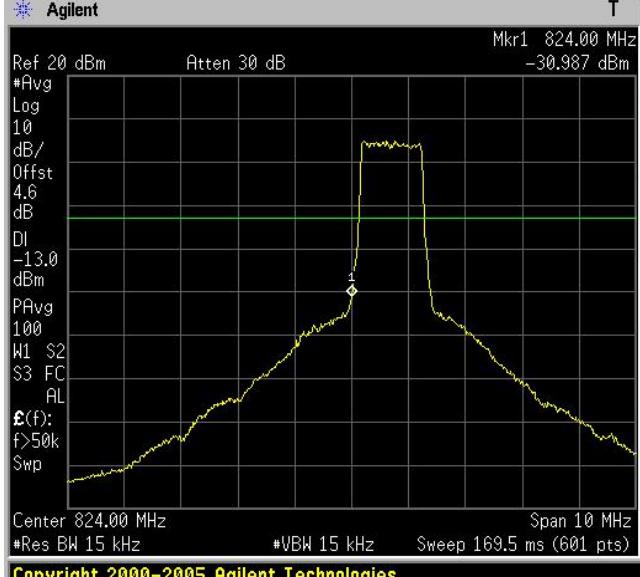
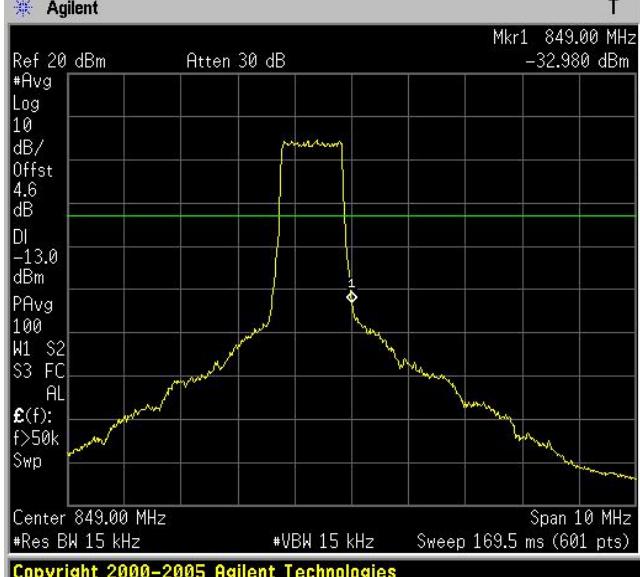
Frequency	LTE Band 4	Channel Bandwidth	3 MHz	RB Allocated	15																
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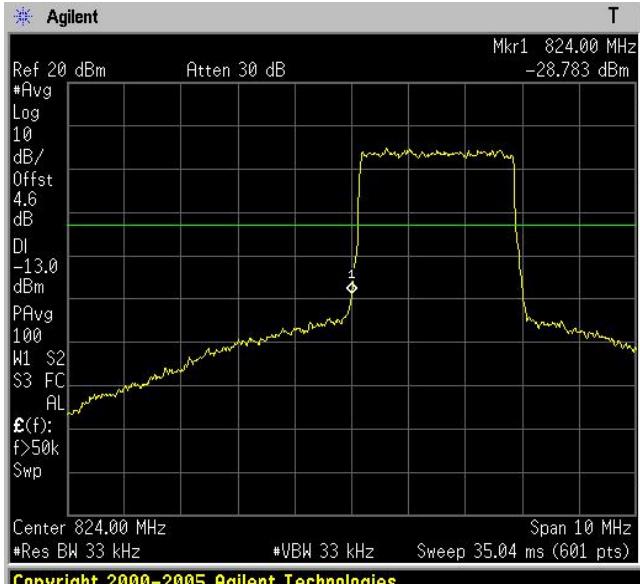
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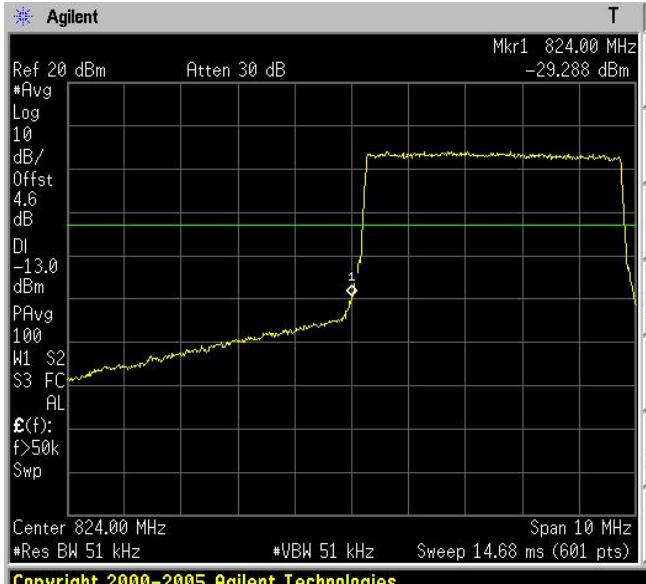
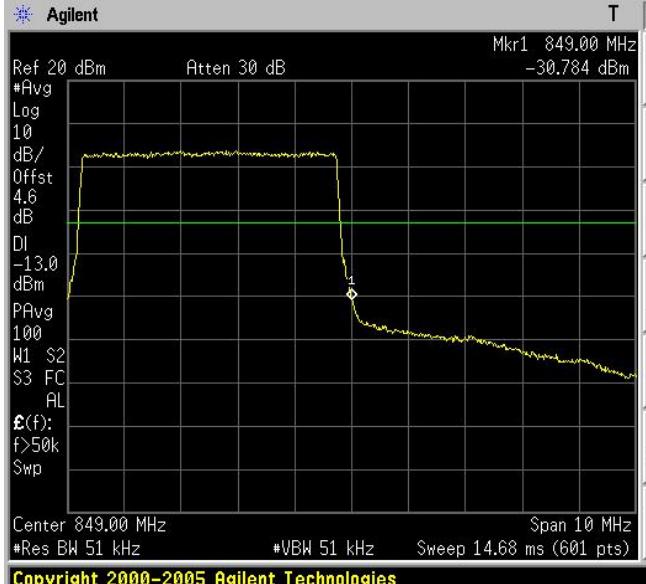
Frequency	LTE Band 4	Channel Bandwidth	10 MHz	RB Allocated	50																		
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Higher Band Edge	 <p>Agilent Spectrum Analysis Plot</p> <p>Ref 20 dBm Atten 30 dB</p> <p>Mkr1 1.755 00 GHz -28.308 dBm</p> <p>#Avg Log 10 dB/Offst 5.2 dB</p> <p>DI -13.0 dBm PAvg 100</p> <p>W1 S2 S3 FC AL</p> <p>$\Sigma(f)$: FTun Swp</p> <p>Center 1.755 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 6.32 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td><td>1.75500000 GHz</td></tr> <tr> <td>Start Freq</td><td>1.74500000 GHz</td></tr> <tr> <td>Stop Freq</td><td>1.76500000 GHz</td></tr> <tr> <td>CF Step</td><td>2.00000000 MHz</td></tr> <tr> <td>Auto</td><td>Man</td></tr> <tr> <td>Freq Offset</td><td>0.00000000 Hz</td></tr> <tr> <td>Signal Track</td><td>On Off</td></tr> <tr> <td colspan="2"></td></tr> </tbody> </table>	Freq/Channel		Center Freq	1.75500000 GHz	Start Freq	1.74500000 GHz	Stop Freq	1.76500000 GHz	CF Step	2.00000000 MHz	Auto	Man	Freq Offset	0.00000000 Hz	Signal Track	On Off			
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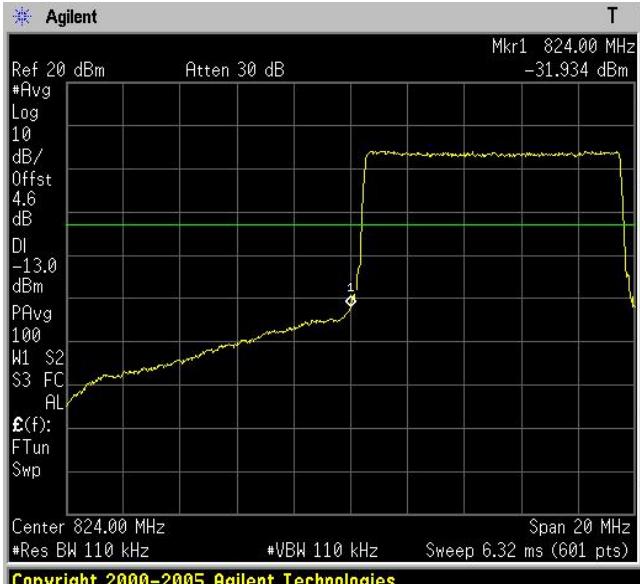
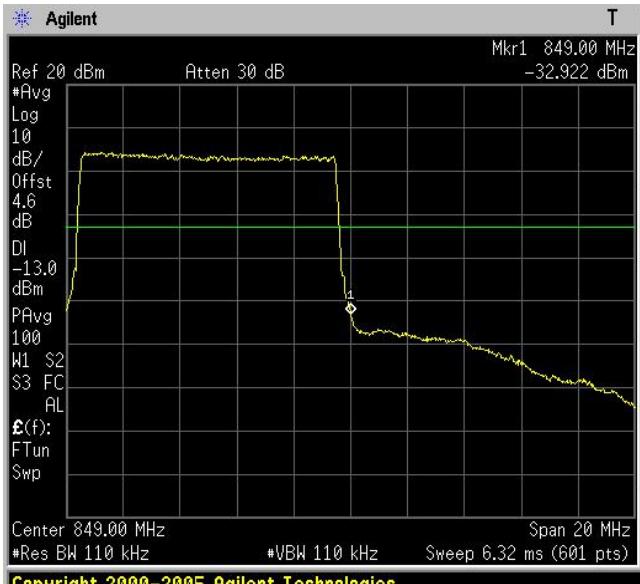
Frequency	LTE Band 5	Channel Bandwidth	15 MHz	RB Allocated	75																
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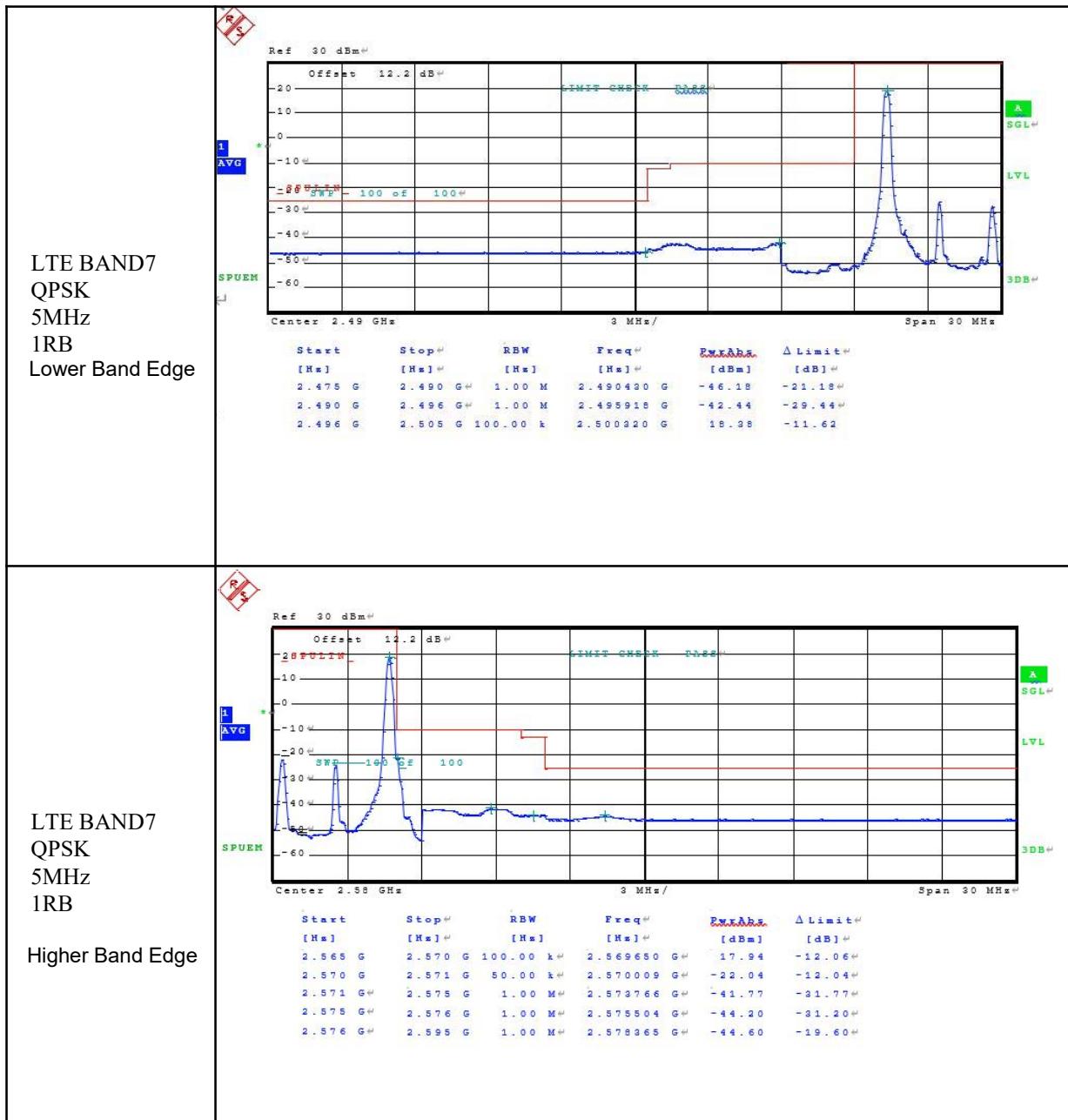
Frequency	LTE Band 4	Channel Bandwidth	20 MHz	RB Allocated	100																
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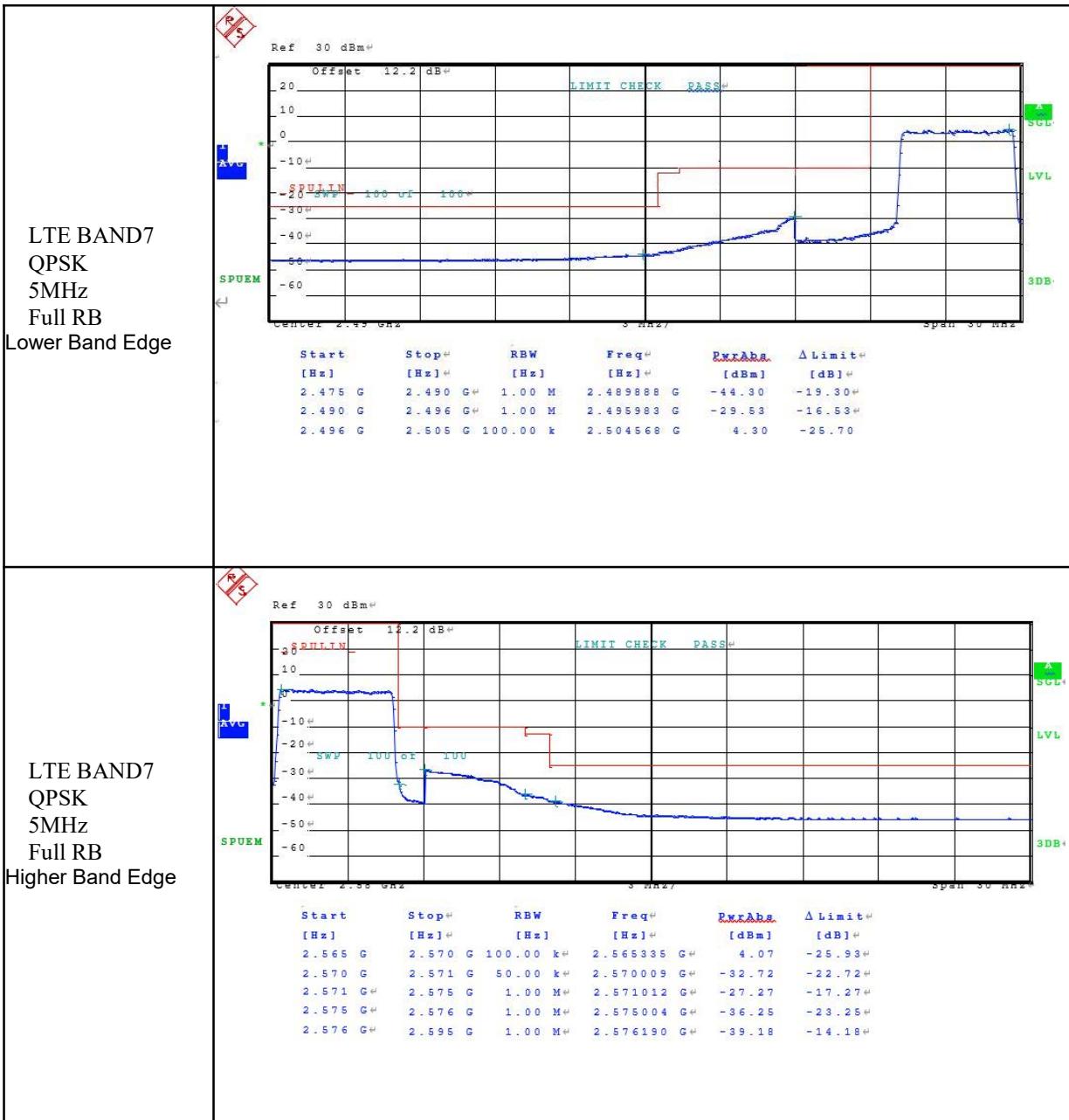
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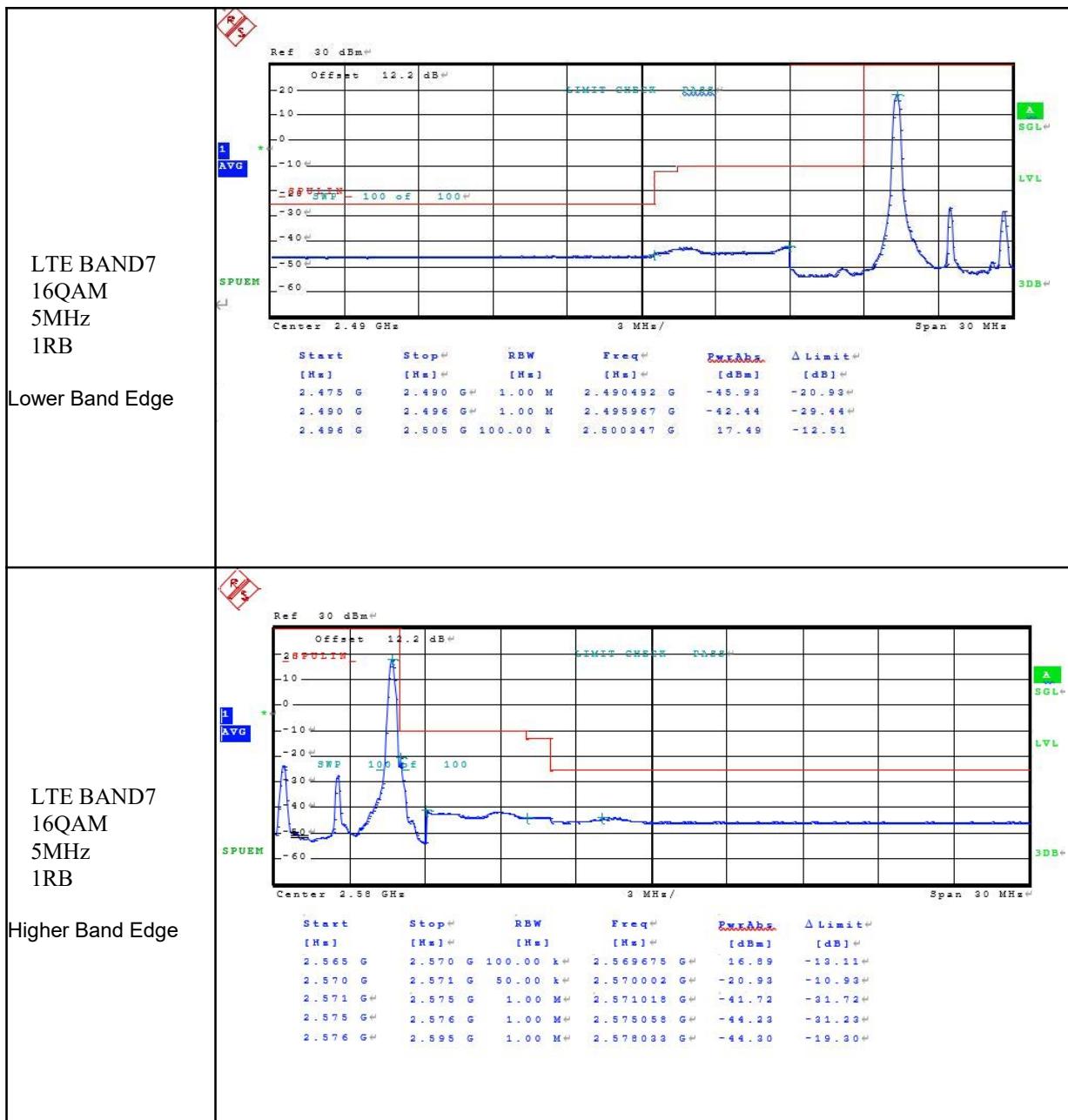
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Higher Band Edge	 <p>Agilent</p> <p>Ref 20 dBm Atten 30 dB Mkr1 849.00 MHz -29.549 dBm</p> <p>#Avg Log 10 dB/ Offst 4.6 dB</p> <p>DI -13.0 dBm PrAvg 100</p> <p>W1 S2 S3 FC AL</p> <p>Σ(f): f>50k Swp</p> <p>Center 849.00 MHz Span 10 MHz</p> <p>#Res BW 33 kHz *VBW 33 kHz Sweep 35.04 ms (601 pts)</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td><td>849.000000 MHz</td></tr> <tr> <td>Start Freq</td><td>844.000000 MHz</td></tr> <tr> <td>Stop Freq</td><td>854.000000 MHz</td></tr> <tr> <td>CF Step</td><td>1.00000000 MHz</td></tr> <tr> <td>Auto</td><td>Man</td></tr> <tr> <td>Freq Offset</td><td>0.00000000 Hz</td></tr> <tr> <td>Signal Track</td><td>On Off</td></tr> <tr> <td colspan="2"></td></tr> </tbody> </table>	Freq/Channel		Center Freq	849.000000 MHz	Start Freq	844.000000 MHz	Stop Freq	854.000000 MHz	CF Step	1.00000000 MHz	Auto	Man	Freq Offset	0.00000000 Hz	Signal Track	On Off			
Freq/Channel																							
Center Freq	849.000000 MHz																						
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Stop Freq	854.000000 MHz																						
CF Step	1.00000000 MHz																						
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Freq Offset	0.00000000 Hz																						
Signal Track	On Off																						

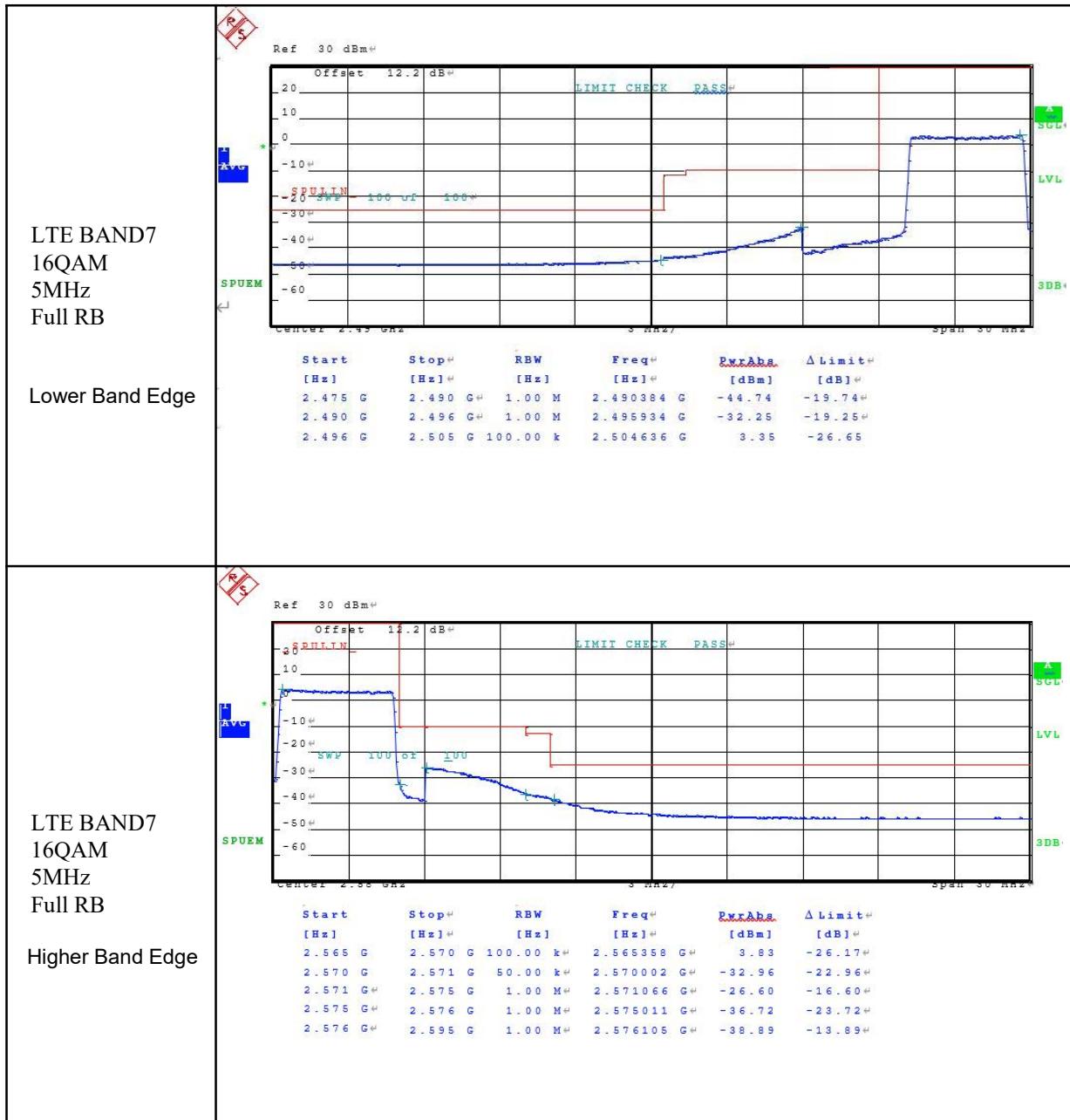
Frequency	LTE Band 5	Channel Bandwidth	5 MHz	RB Allocated	25																		
Lower Band Edge	 <p>Agilent Spectrum Analyzer Trace for Lower Band Edge. The trace shows a signal with a sharp peak at 824.00 MHz. The plot includes a legend for W1, S2, S3, FC, and AL. The right panel displays the following parameters:</p> <table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td> <td>824.000000 MHz</td> </tr> <tr> <td>Start Freq</td> <td>819.000000 MHz</td> </tr> <tr> <td>Stop Freq</td> <td>829.000000 MHz</td> </tr> <tr> <td>CF Step</td> <td>1.00000000 MHz</td> </tr> <tr> <td>Auto</td> <td>Man</td> </tr> <tr> <td>Freq Offset</td> <td>0.00000000 Hz</td> </tr> <tr> <td>Signal Track</td> <td>On</td> </tr> <tr> <td></td> <td>Off</td> </tr> </tbody> </table> <p>Copyright 2000-2005 Agilent Technologies</p>	Freq/Channel		Center Freq	824.000000 MHz	Start Freq	819.000000 MHz	Stop Freq	829.000000 MHz	CF Step	1.00000000 MHz	Auto	Man	Freq Offset	0.00000000 Hz	Signal Track	On		Off				
Freq/Channel																							
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Stop Freq	829.000000 MHz																						
CF Step	1.00000000 MHz																						
Auto	Man																						
Freq Offset	0.00000000 Hz																						
Signal Track	On																						
	Off																						
Higher Band Edge	 <p>Agilent Spectrum Analyzer Trace for Higher Band Edge. The trace shows a signal with a sharp peak at 849.00 MHz. The plot includes a legend for W1, S2, S3, FC, and AL. The right panel displays the following parameters:</p> <table border="1"> <thead> <tr> <th colspan="2">Freq/Channel</th> </tr> </thead> <tbody> <tr> <td>Center Freq</td> <td>849.000000 MHz</td> </tr> <tr> <td>Start Freq</td> <td>844.000000 MHz</td> </tr> <tr> <td>Stop Freq</td> <td>854.000000 MHz</td> </tr> <tr> <td>CF Step</td> <td>1.00000000 MHz</td> </tr> <tr> <td>Auto</td> <td>Man</td> </tr> <tr> <td>Freq Offset</td> <td>0.00000000 Hz</td> </tr> <tr> <td>Signal Track</td> <td>On</td> </tr> <tr> <td></td> <td>Off</td> </tr> </tbody> </table> <p>Copyright 2000-2005 Agilent Technologies</p>	Freq/Channel		Center Freq	849.000000 MHz	Start Freq	844.000000 MHz	Stop Freq	854.000000 MHz	CF Step	1.00000000 MHz	Auto	Man	Freq Offset	0.00000000 Hz	Signal Track	On		Off				
Freq/Channel																							
Center Freq	849.000000 MHz																						
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Stop Freq	854.000000 MHz																						
CF Step	1.00000000 MHz																						
Auto	Man																						
Freq Offset	0.00000000 Hz																						
Signal Track	On																						
	Off																						

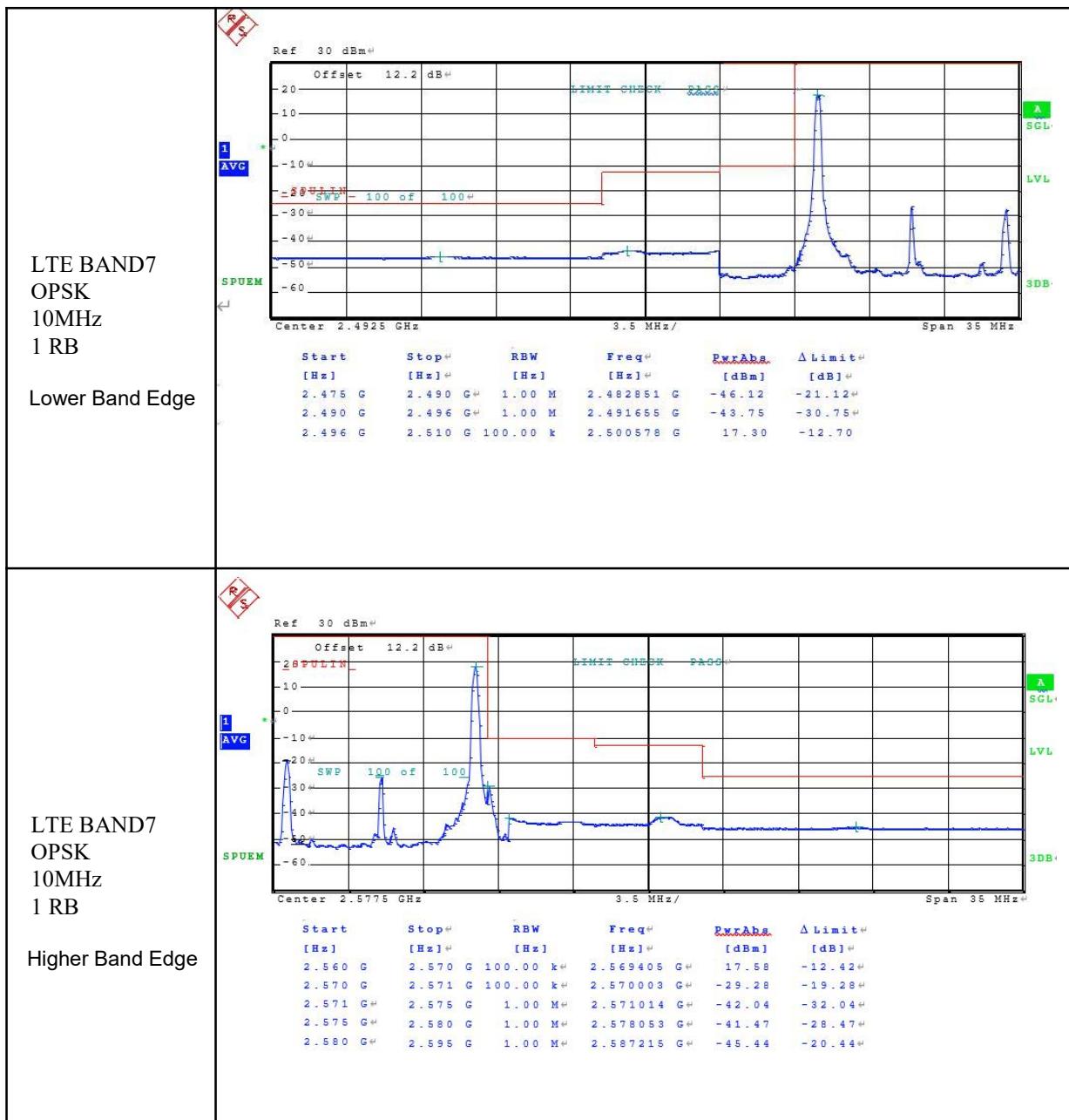
Frequency	LTE Band 5	Channel Bandwidth	10 MHz	RB Allocated	50
Lower Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB Mkr1 824.00 MHz -31.934 dBm</p> <p>#Avg Log 10 dB/Offst 4.6 dB</p> <p>D1 -13.0 dBm PAvg 100 W1 S2 S3 FC AL</p> <p>ε(f): FTun Swp</p> <p>Center 824.00 MHz #Res BW 110 kHz #VBW 110 kHz Sweep 6.32 ms (601 pts) Span 20 MHz</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<p>Freq/Channel</p> <p>Center Freq 824.000000 MHz</p> <p>Start Freq 814.000000 MHz</p> <p>Stop Freq 834.000000 MHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>	
Higher Band Edge	 <p>Agilent Spectrum Analyzer Plot</p> <p>Ref 20 dBm Atten 30 dB Mkr1 849.00 MHz -32.922 dBm</p> <p>#Avg Log 10 dB/Offst 4.6 dB</p> <p>D1 -13.0 dBm PAvg 100 W1 S2 S3 FC AL</p> <p>ε(f): FTun Swp</p> <p>Center 849.00 MHz #Res BW 110 kHz #VBW 110 kHz Sweep 6.32 ms (601 pts) Span 20 MHz</p> <p>Copyright 2000-2005 Agilent Technologies</p>			<p>Freq/Channel</p> <p>Center Freq 849.000000 MHz</p> <p>Start Freq 839.000000 MHz</p> <p>Stop Freq 859.000000 MHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>	

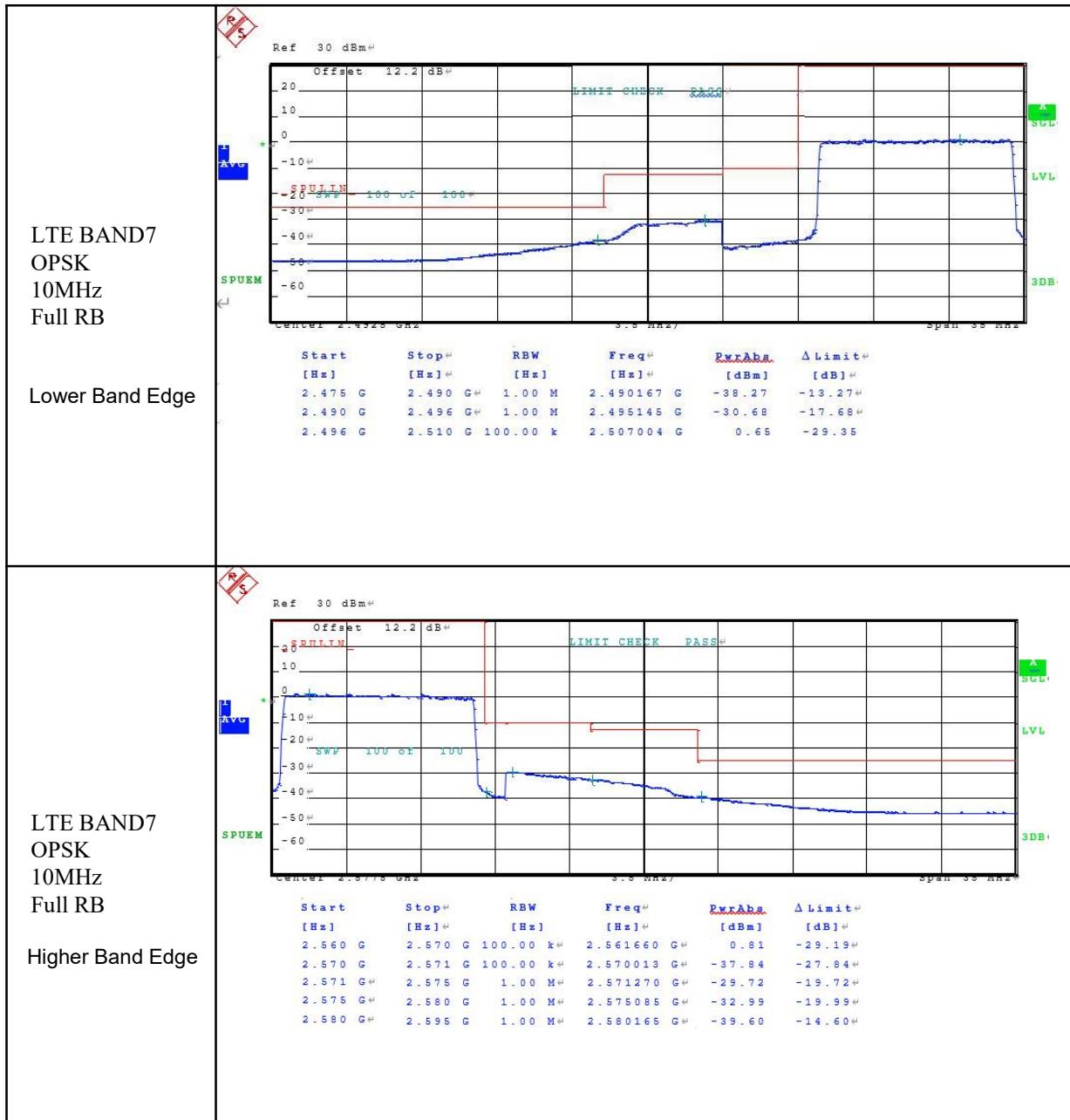


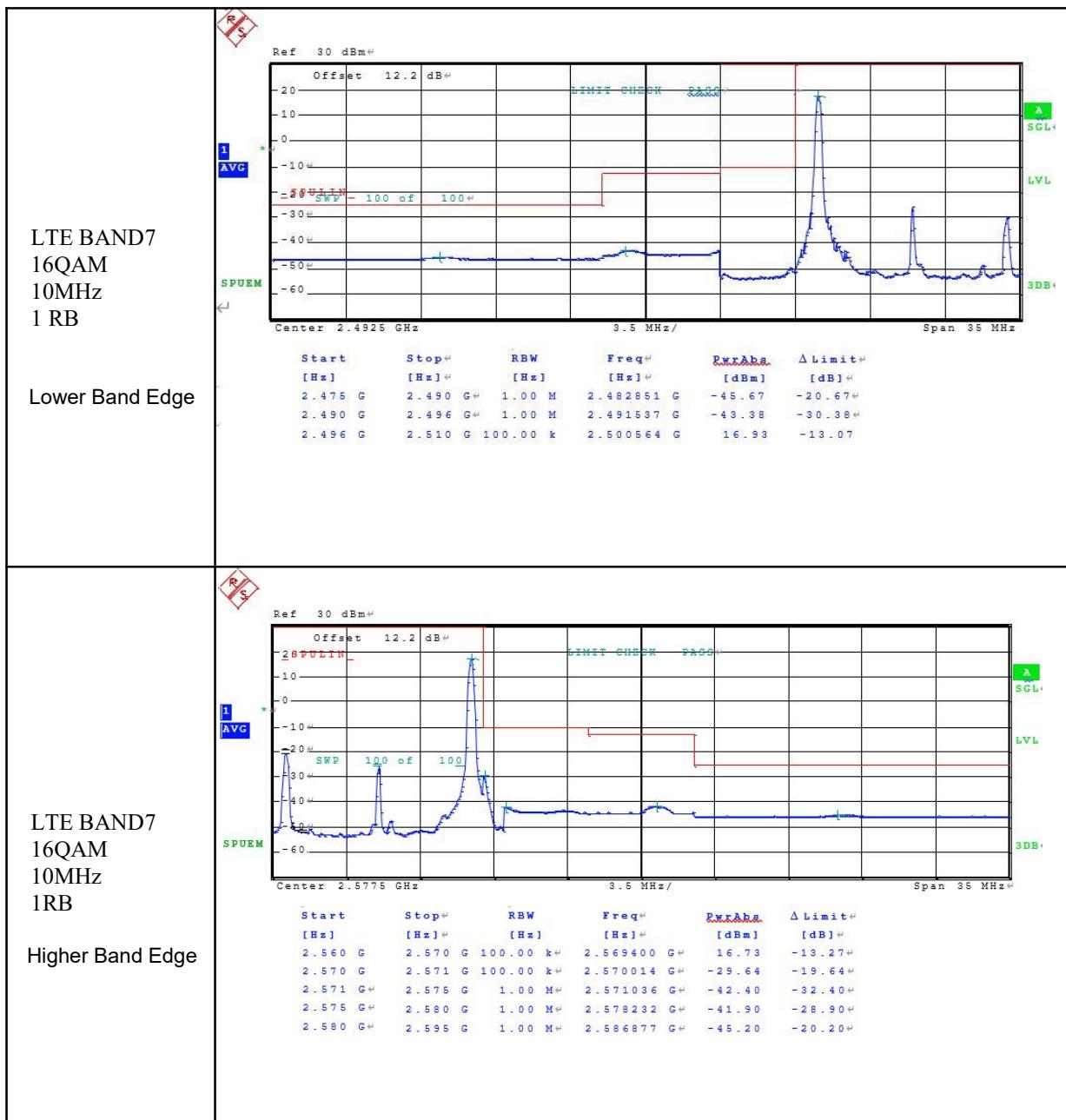














LTE BAND7
16QAM
10MHz
Full RB

Lower Band Edge

Ref 30 dBm

Start Stop RBW Freq PwrAbs. Δ Limit

[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dBm]
2.475 G	2.490 G	1.00 M	2.490430 G	-32.53	-13.53
2.490 G	2.496 G	1.00 M	2.495876 G	-30.65	-17.65
2.496 G	2.510 G	100.00 k	2.508922 G	0.08	-29.92

Center 2.4925 GHz Span 3.5 MHz

LTE BAND7
16QAM
10MHz
Full RB

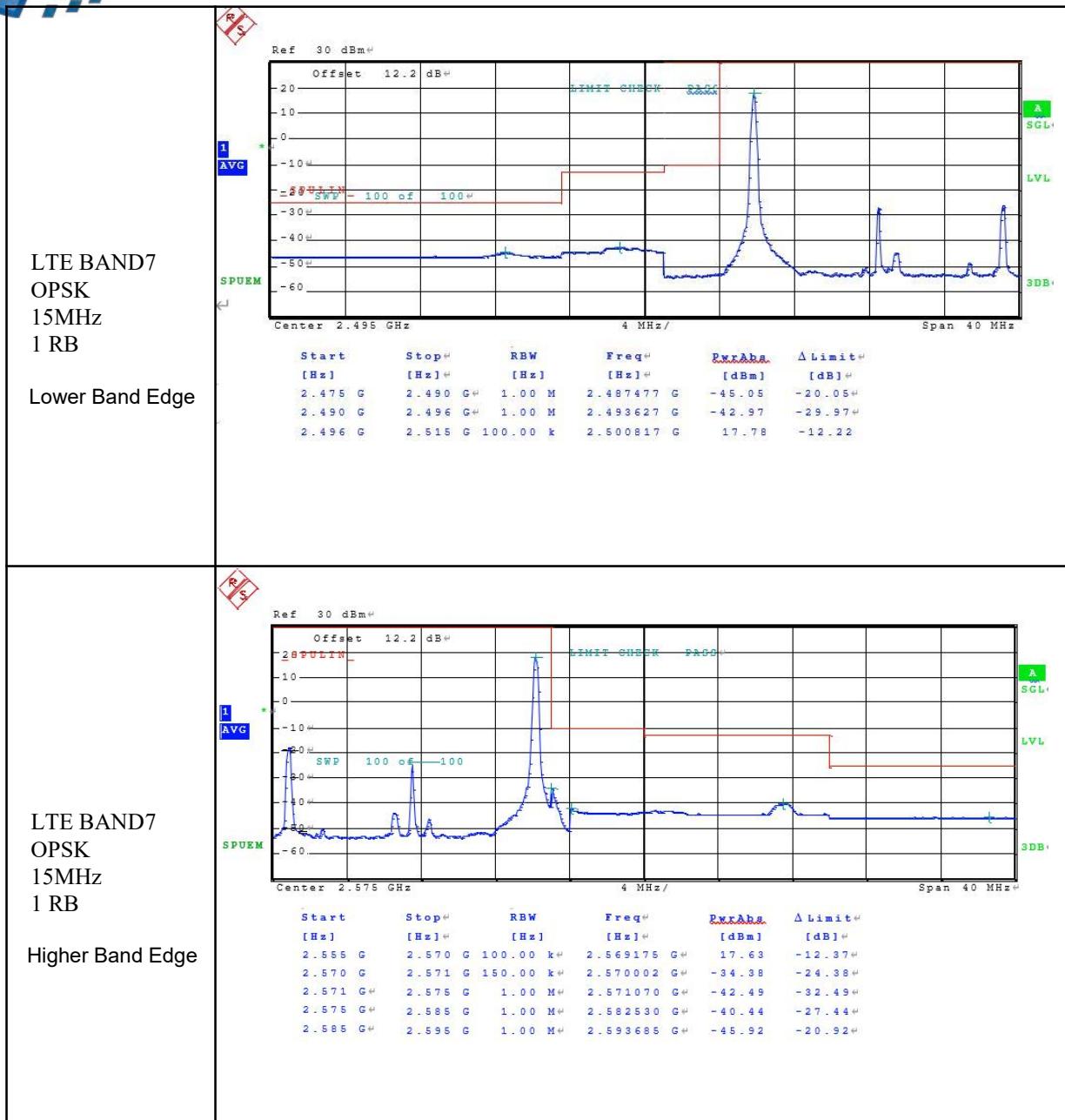
Higher Band Edge

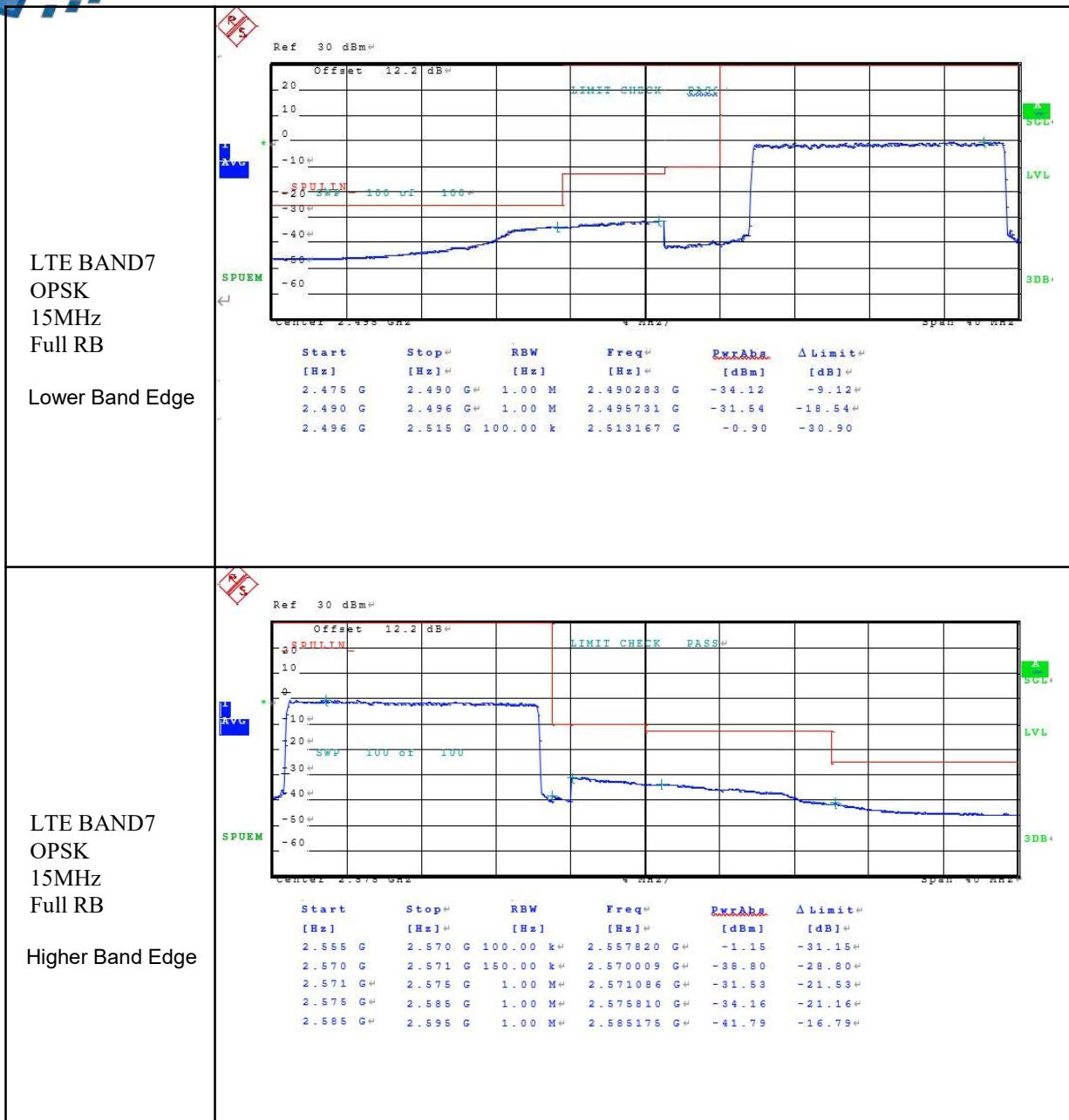
Ref 30 dBm

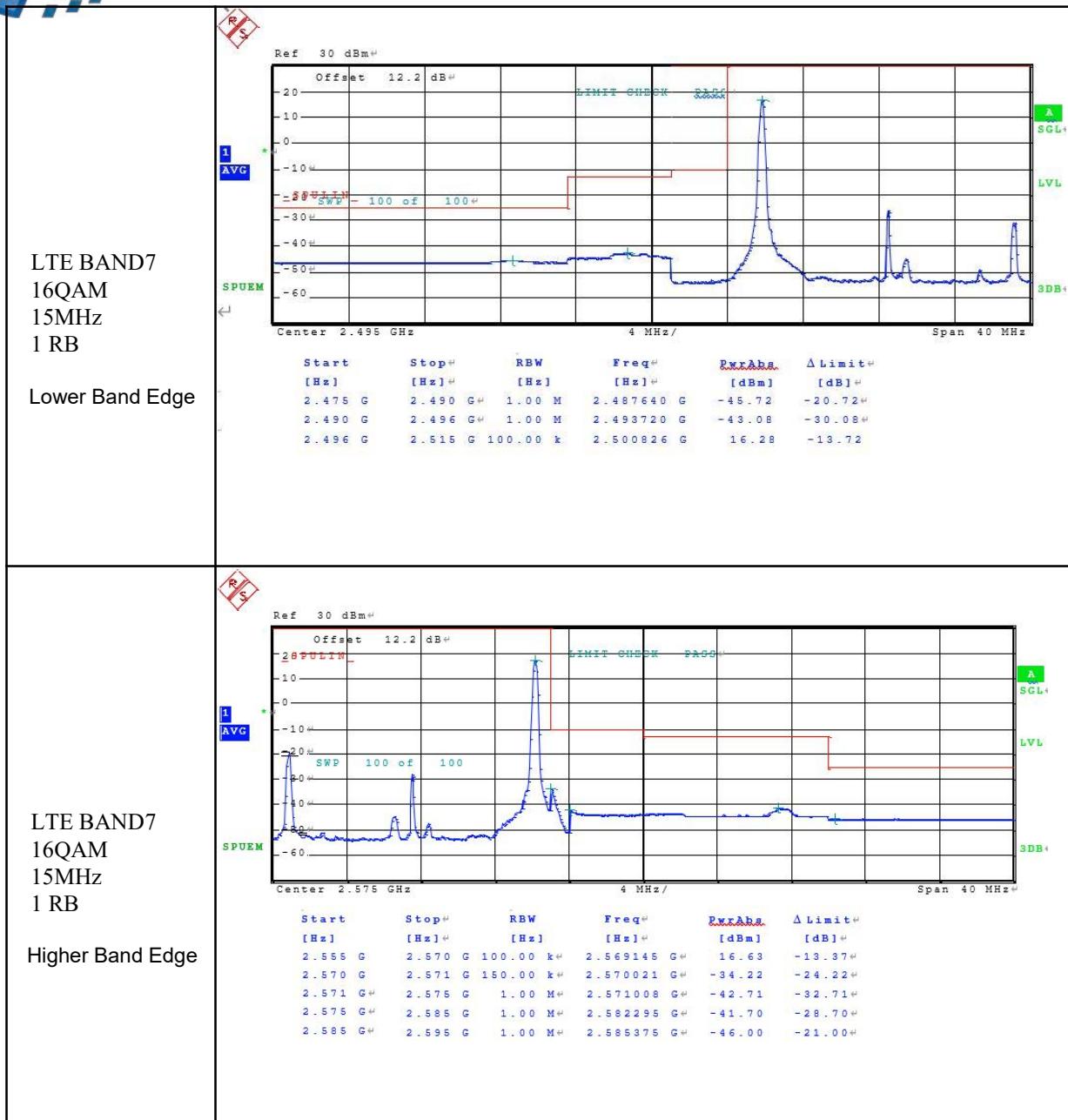
Start Stop RBW Freq PwrAbs. Δ Limit

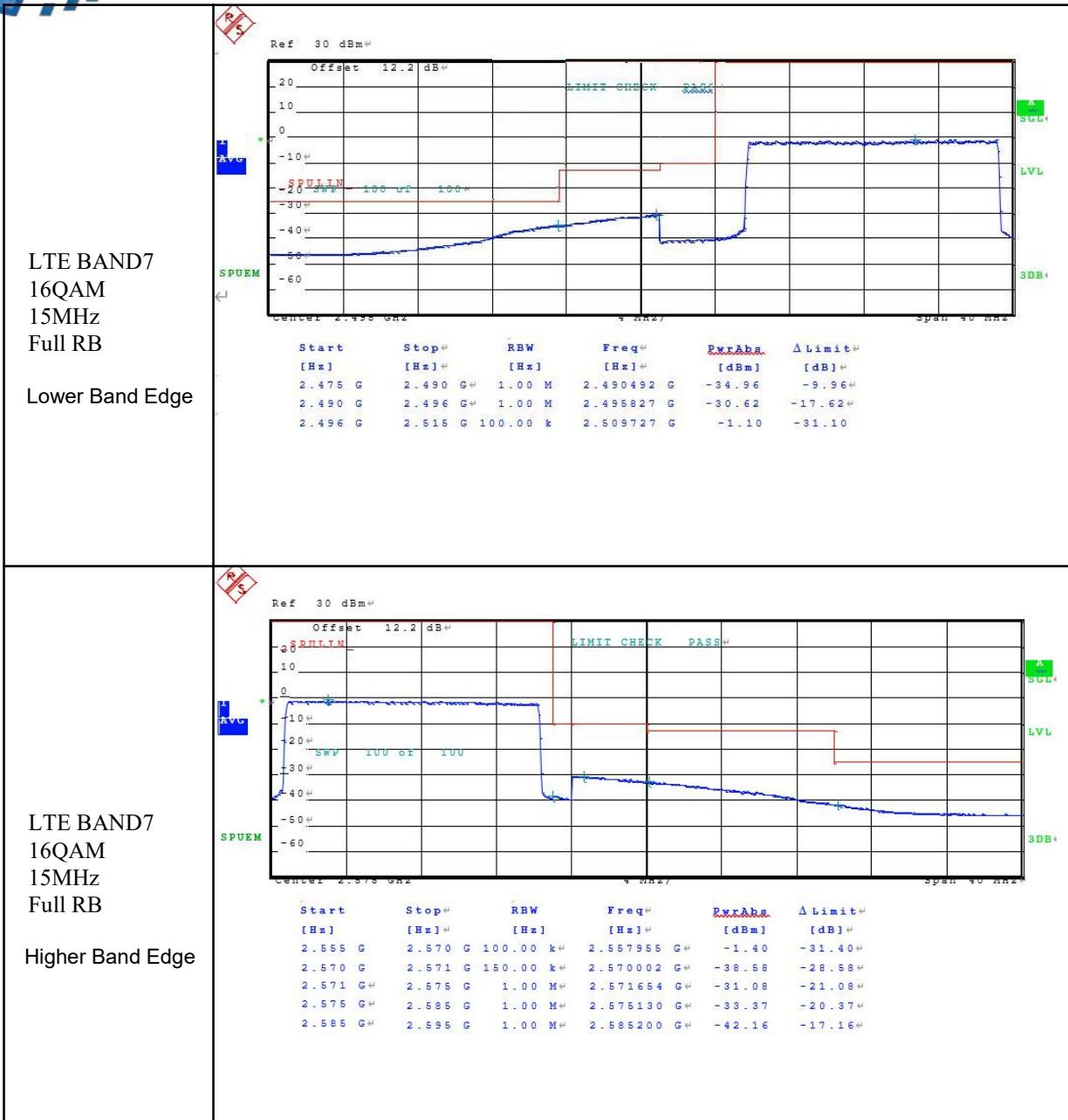
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dBm]
2.560 G	2.570 G	100.00 k	2.563270 G	0.33	-29.67
2.570 G	2.571 G	100.00 k	2.570003 G	-37.17	-27.17
2.571 G	2.575 G	1.00 M	2.571072 G	-29.69	-19.69
2.575 G	2.580 G	1.00 M	2.575015 G	-32.93	-19.93
2.580 G	2.595 G	1.00 M	2.580007 G	-40.32	-15.32

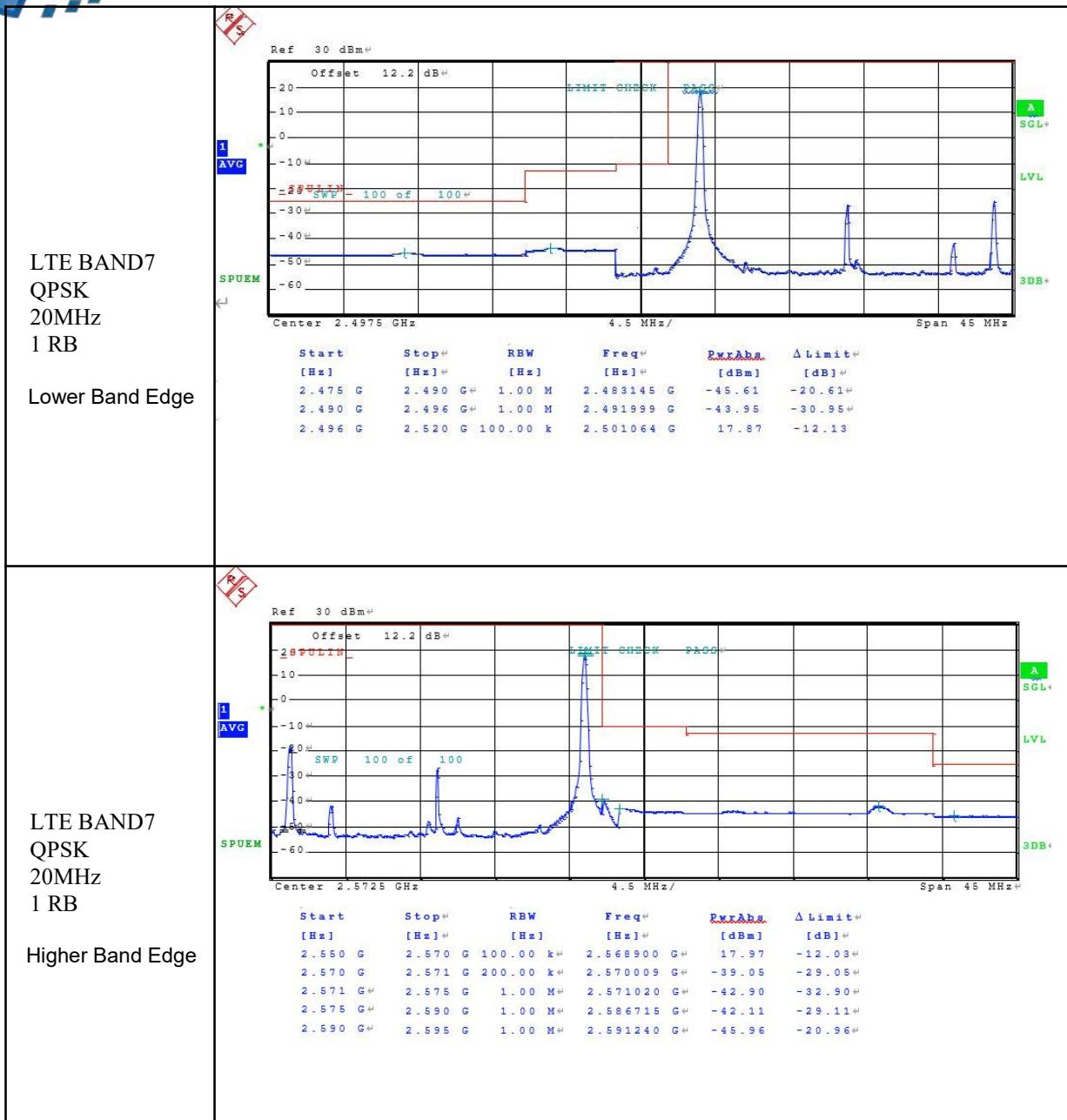
Center 2.5775 GHz Span 3.5 MHz

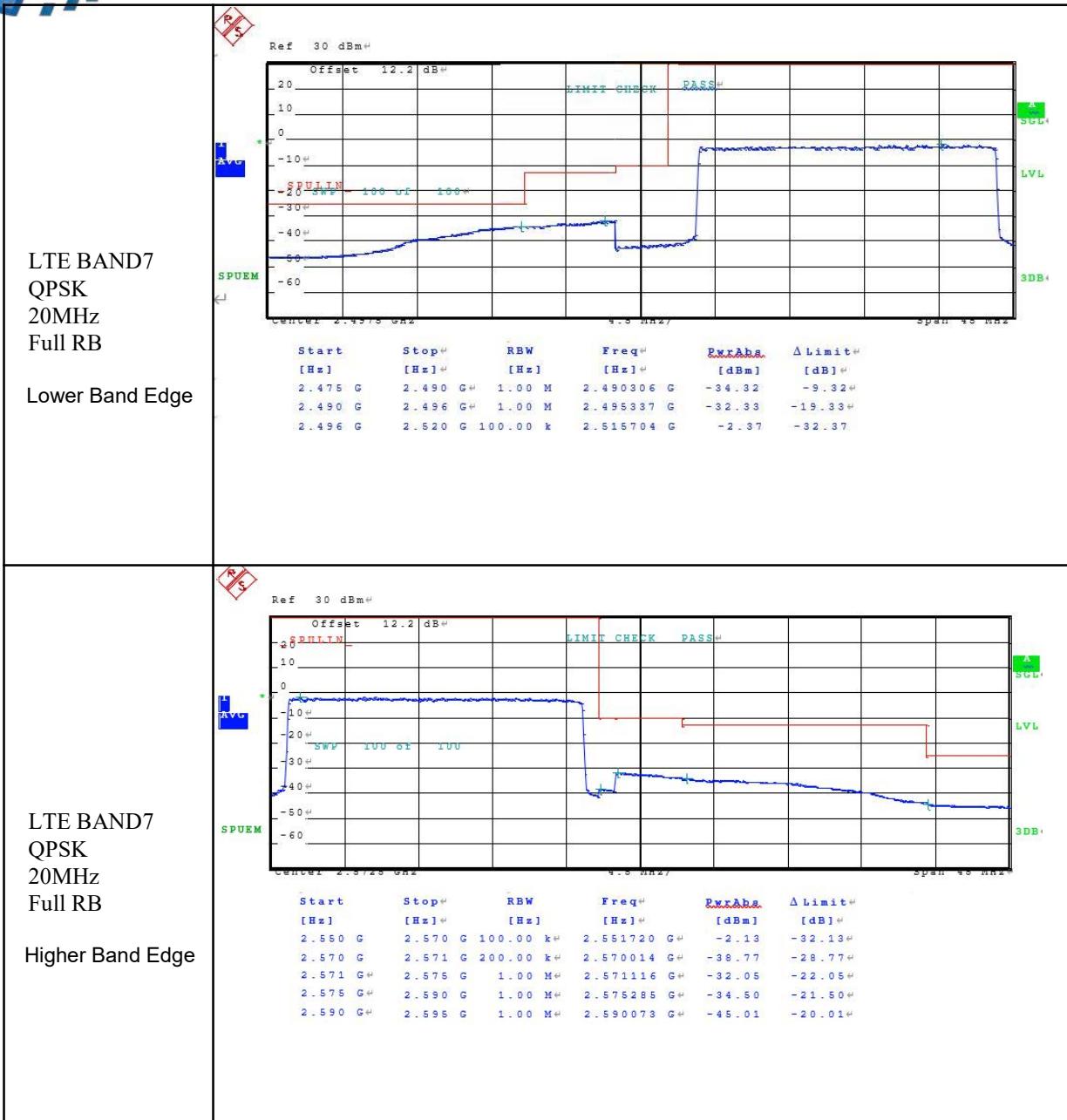


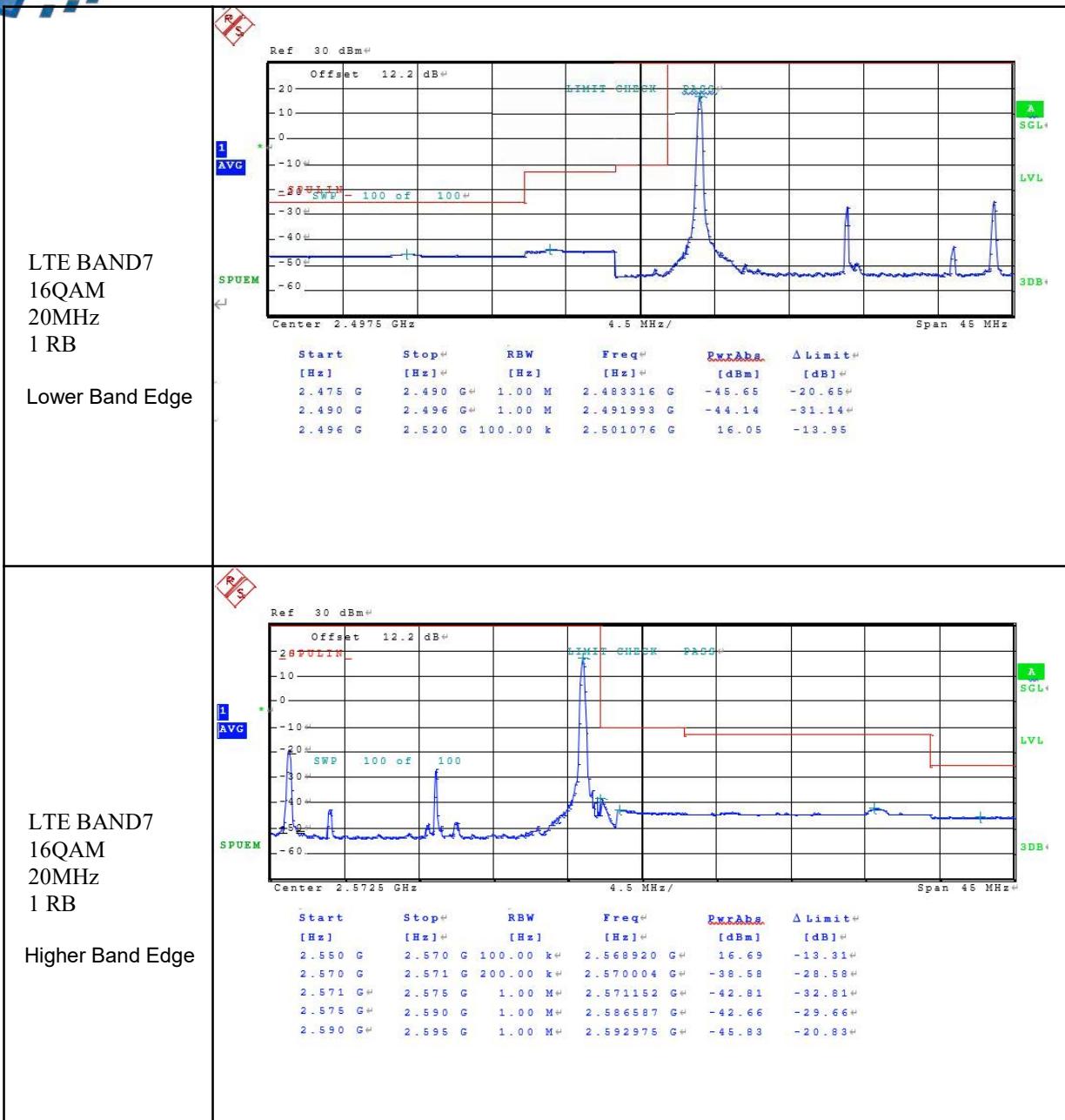


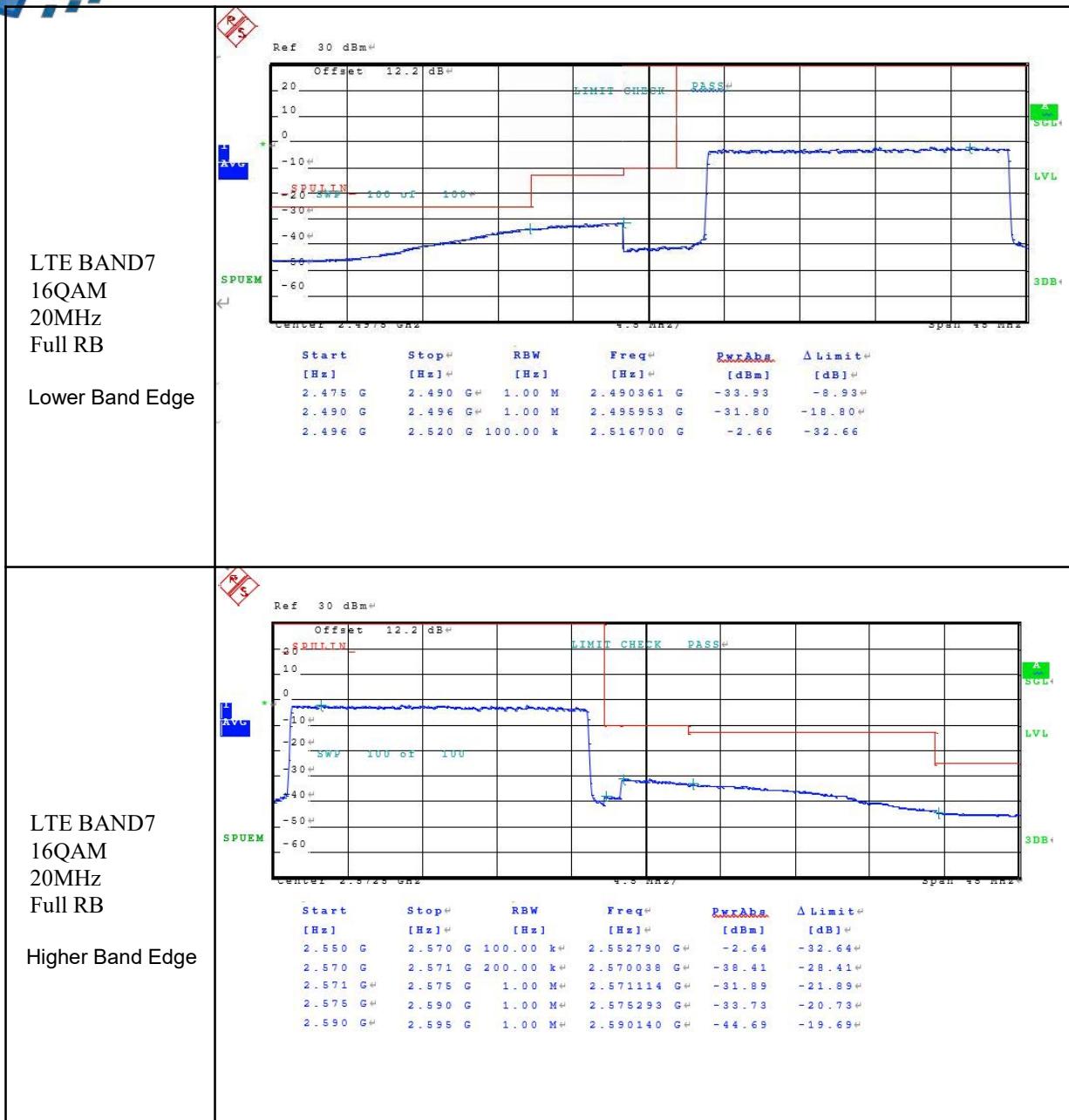












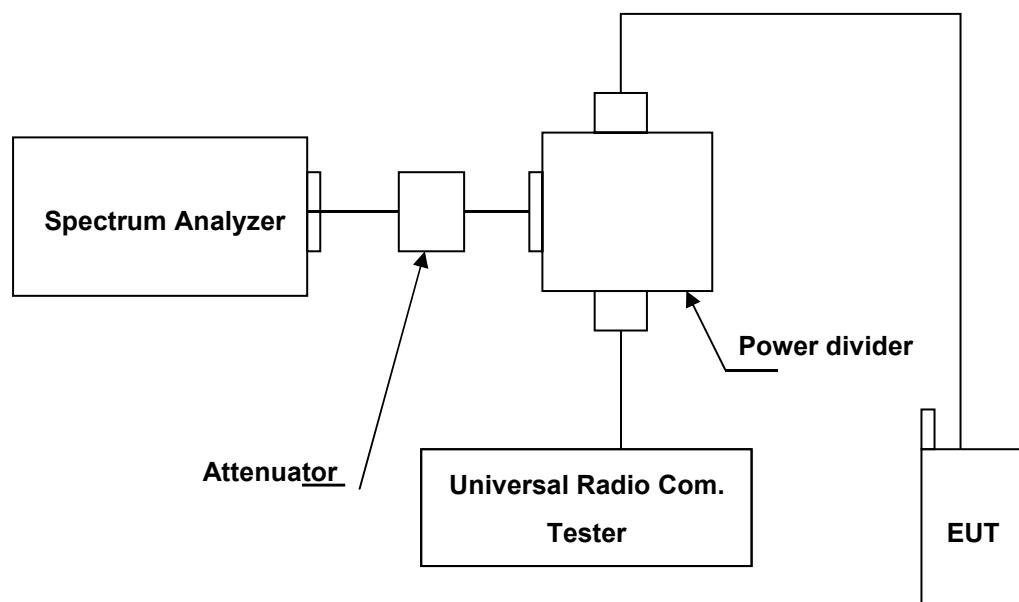
8 Conducted Spurious Emission Test

8.1. Limit

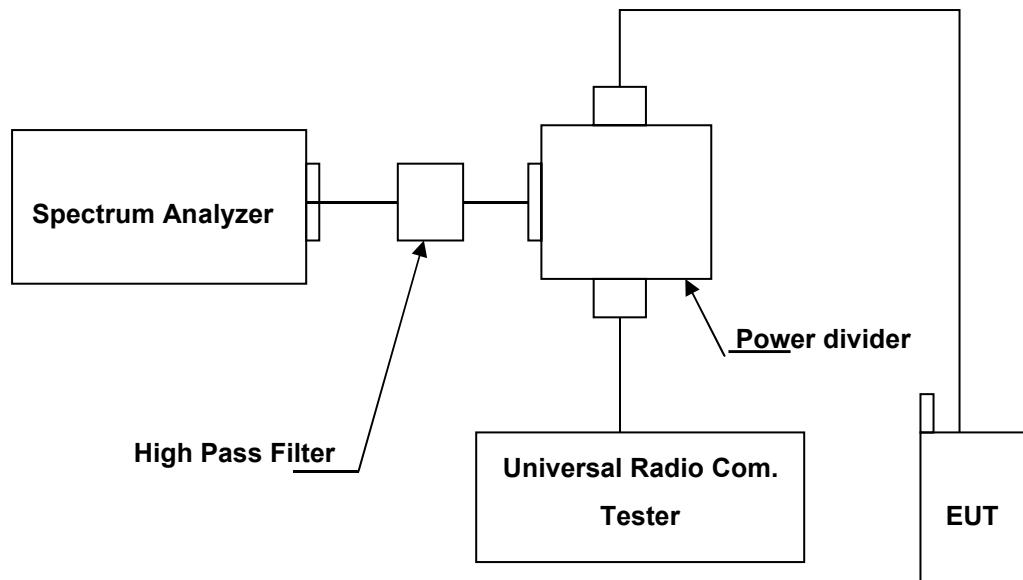
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

8.2. Setup

Below 2.8GHz



Above 2.8GHz

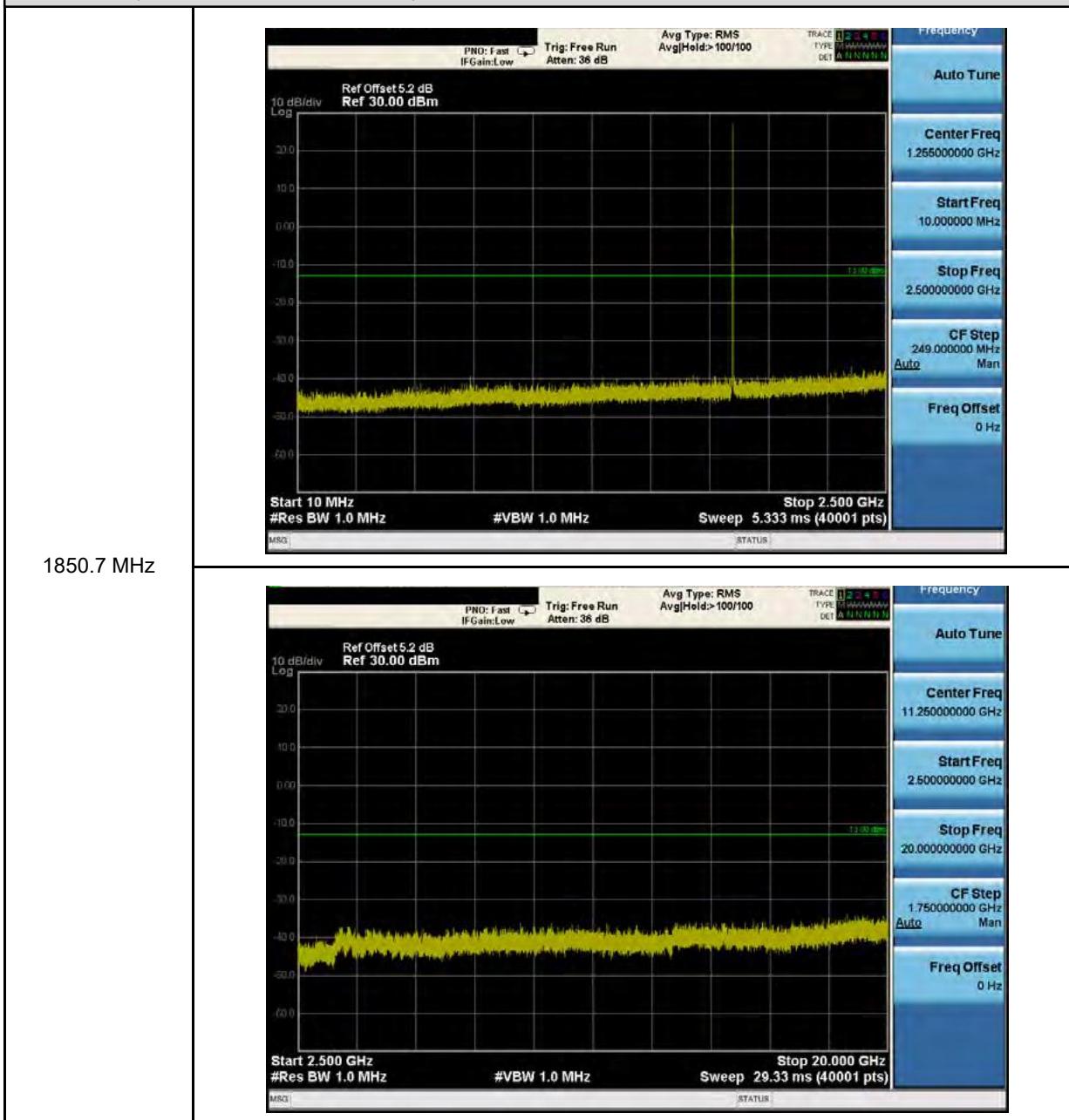


8.3. Test Procedure

- The EUT was set up for the maximum peak power with LTE / WCDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).
- The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- When the spectrum scanned from 30MHz to 3GHz, it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.
- When the spectrum scanned from 3GHz to 20GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.

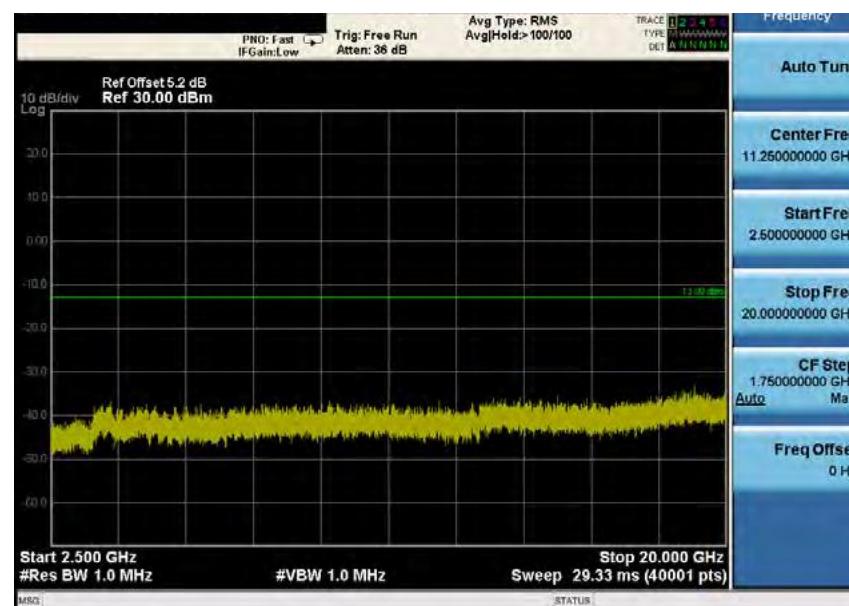
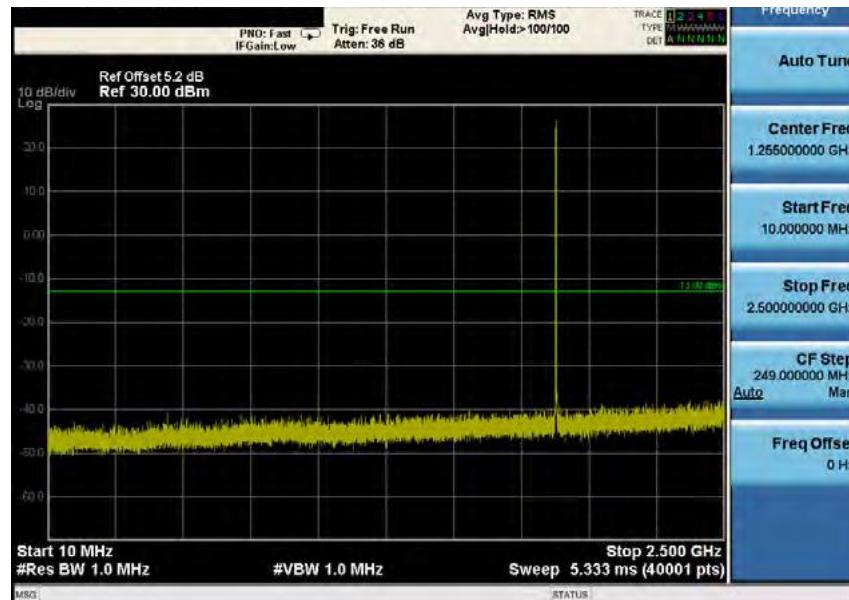
8.4. Test Graphs

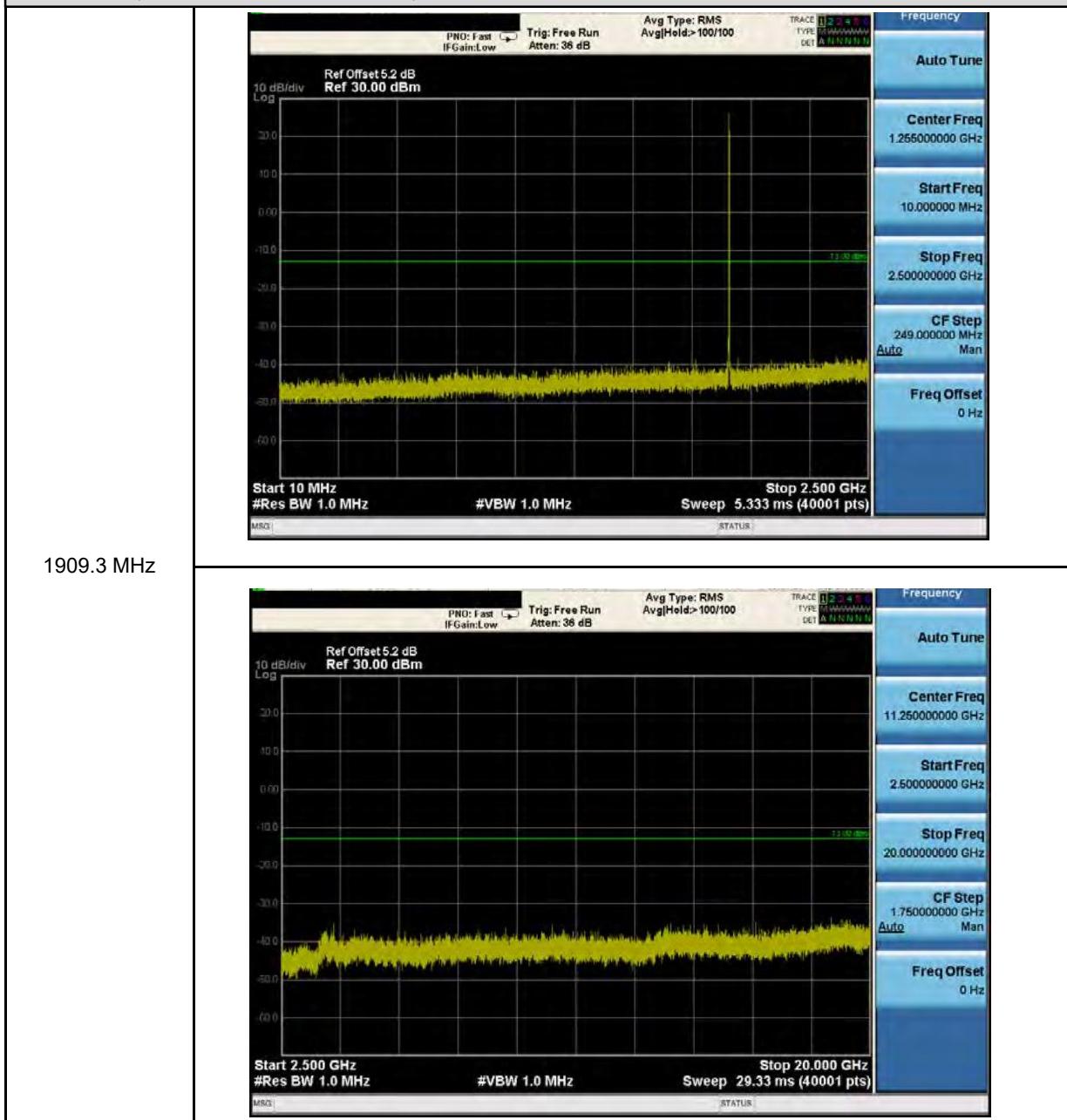
LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ QPSK

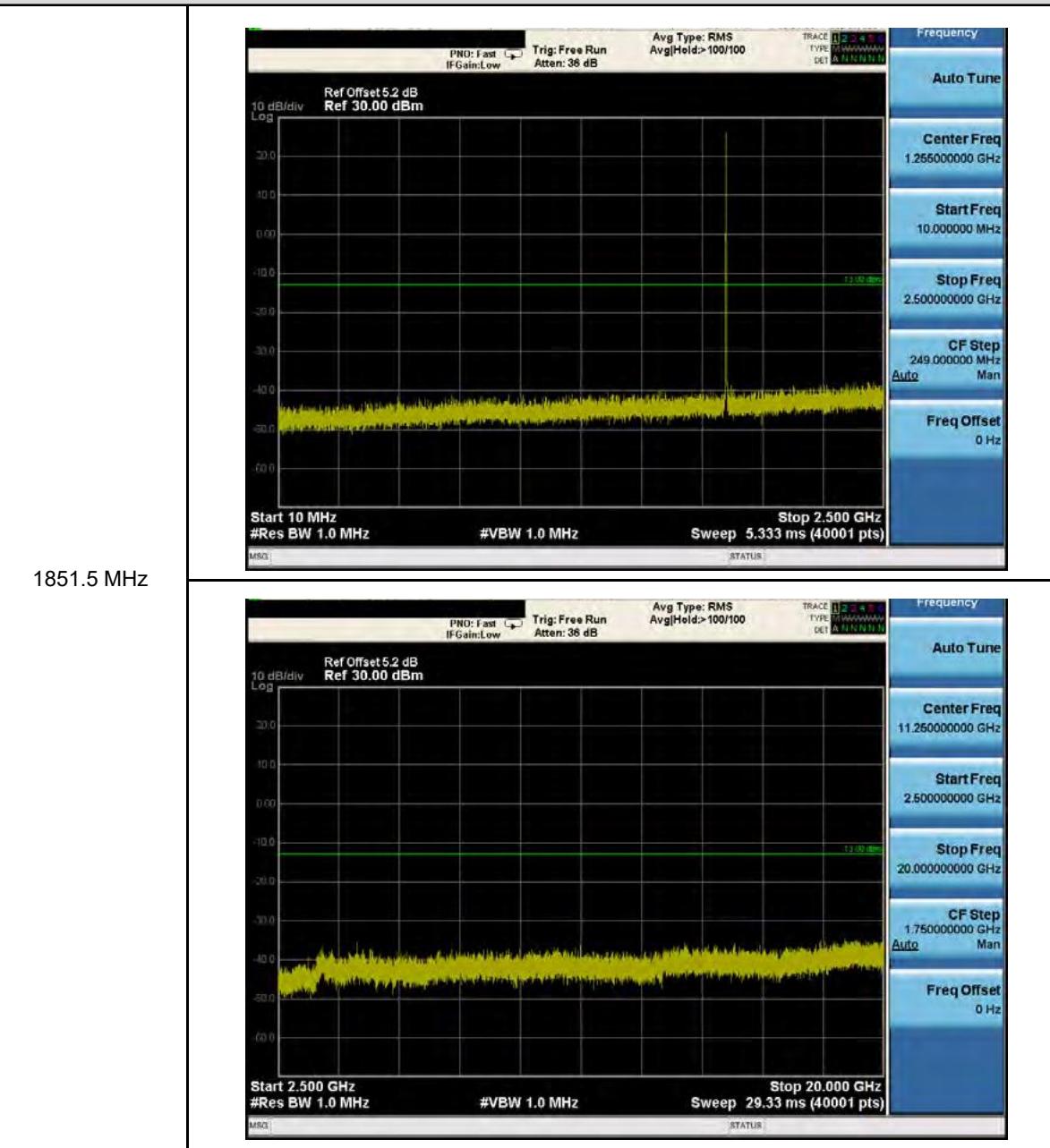


LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ QPSK

1880.0 MHz

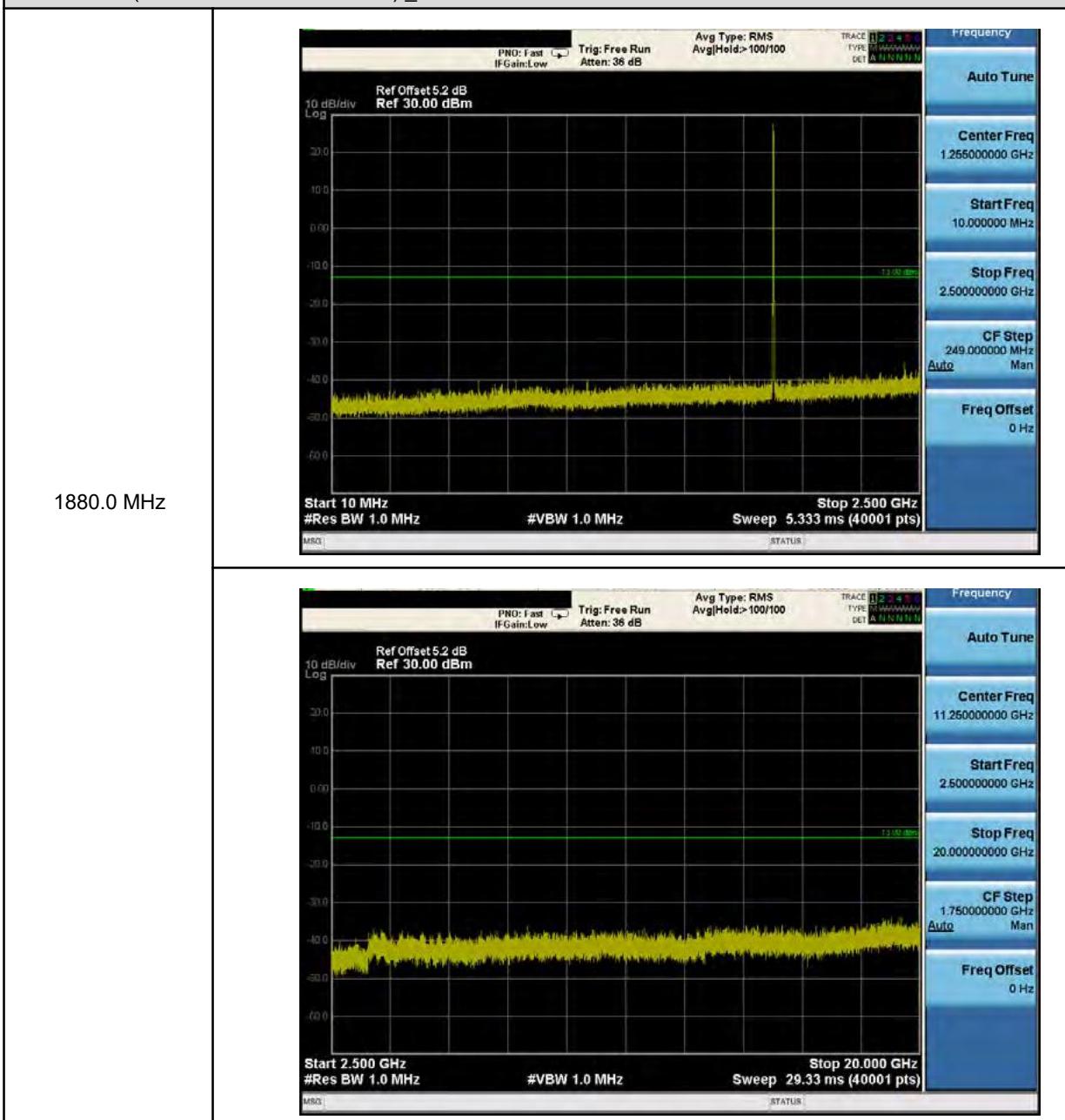


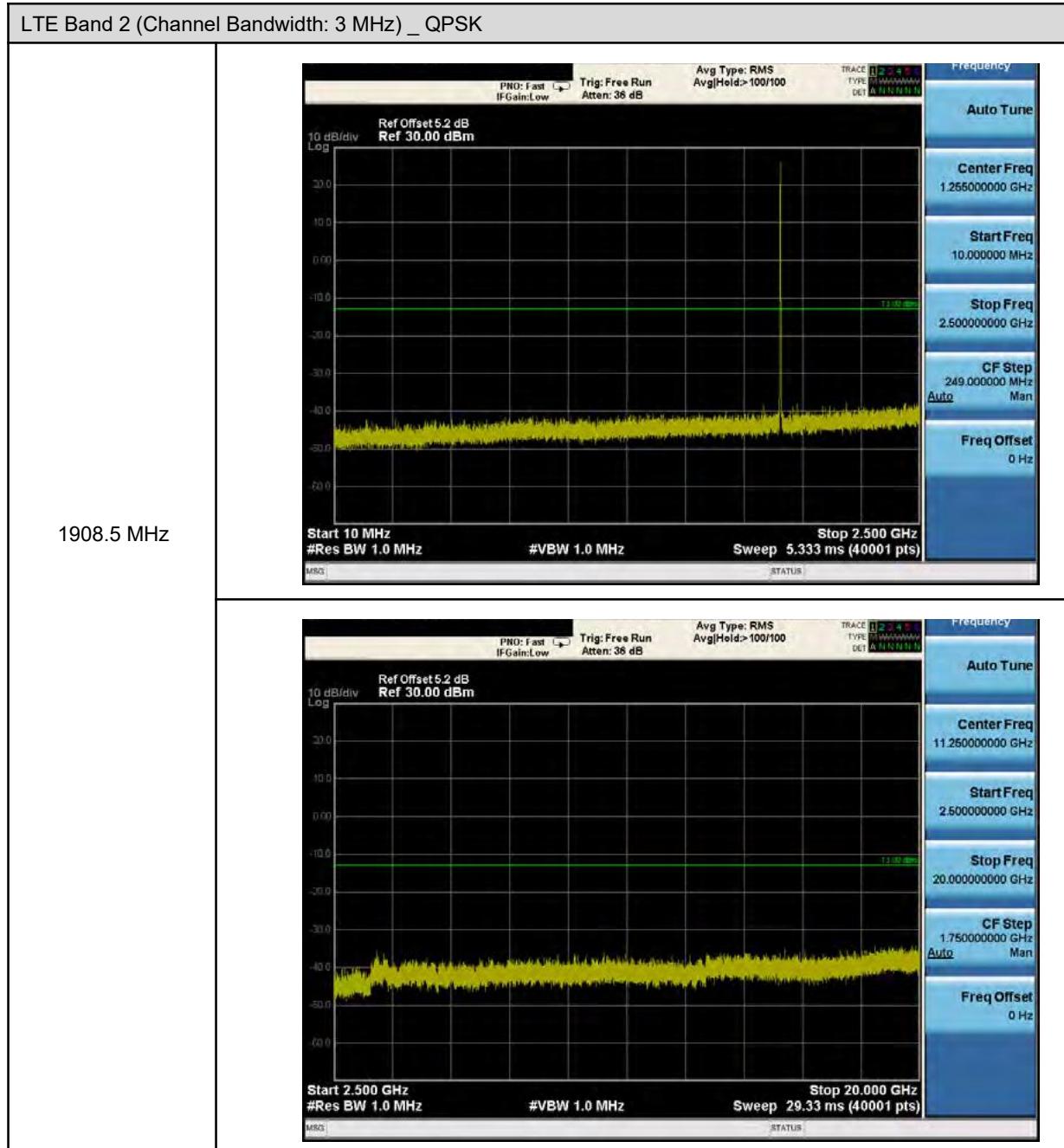
LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ QPSK


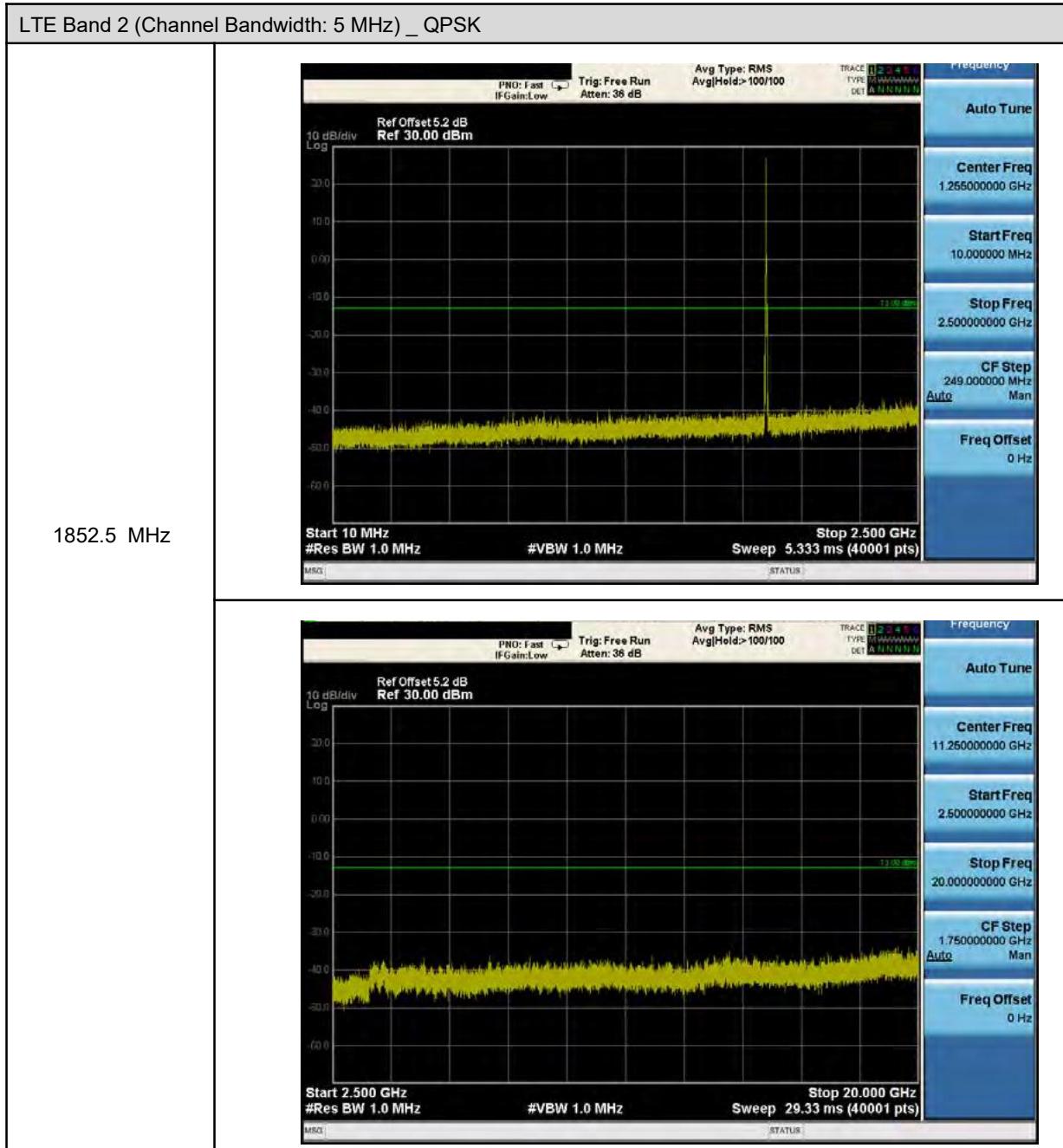
LTE Band 2 (Channel Bandwidth: 3 MHz) _ QPSK


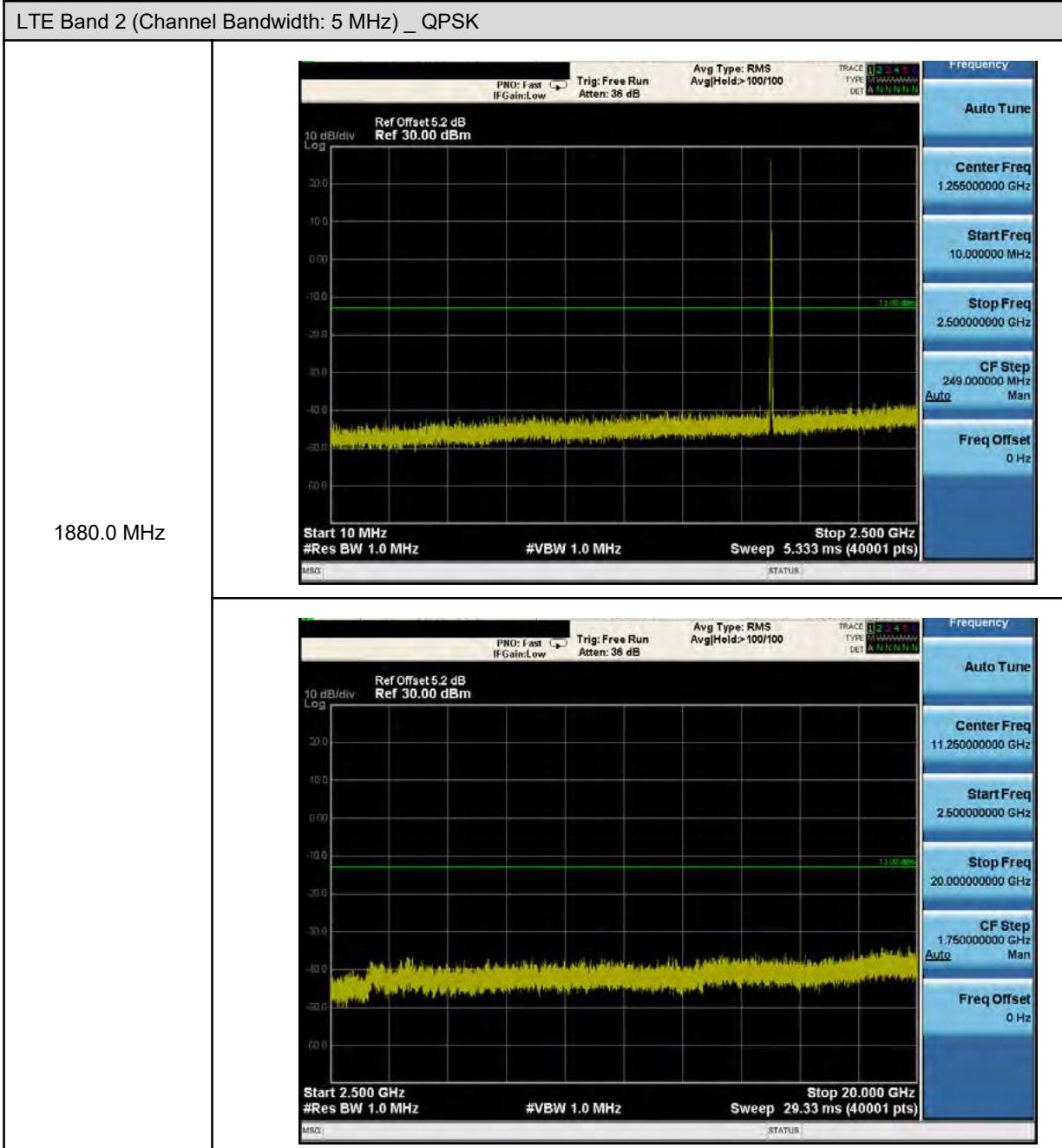


LTE Band 2 (Channel Bandwidth: 3 MHz) _ QPSK

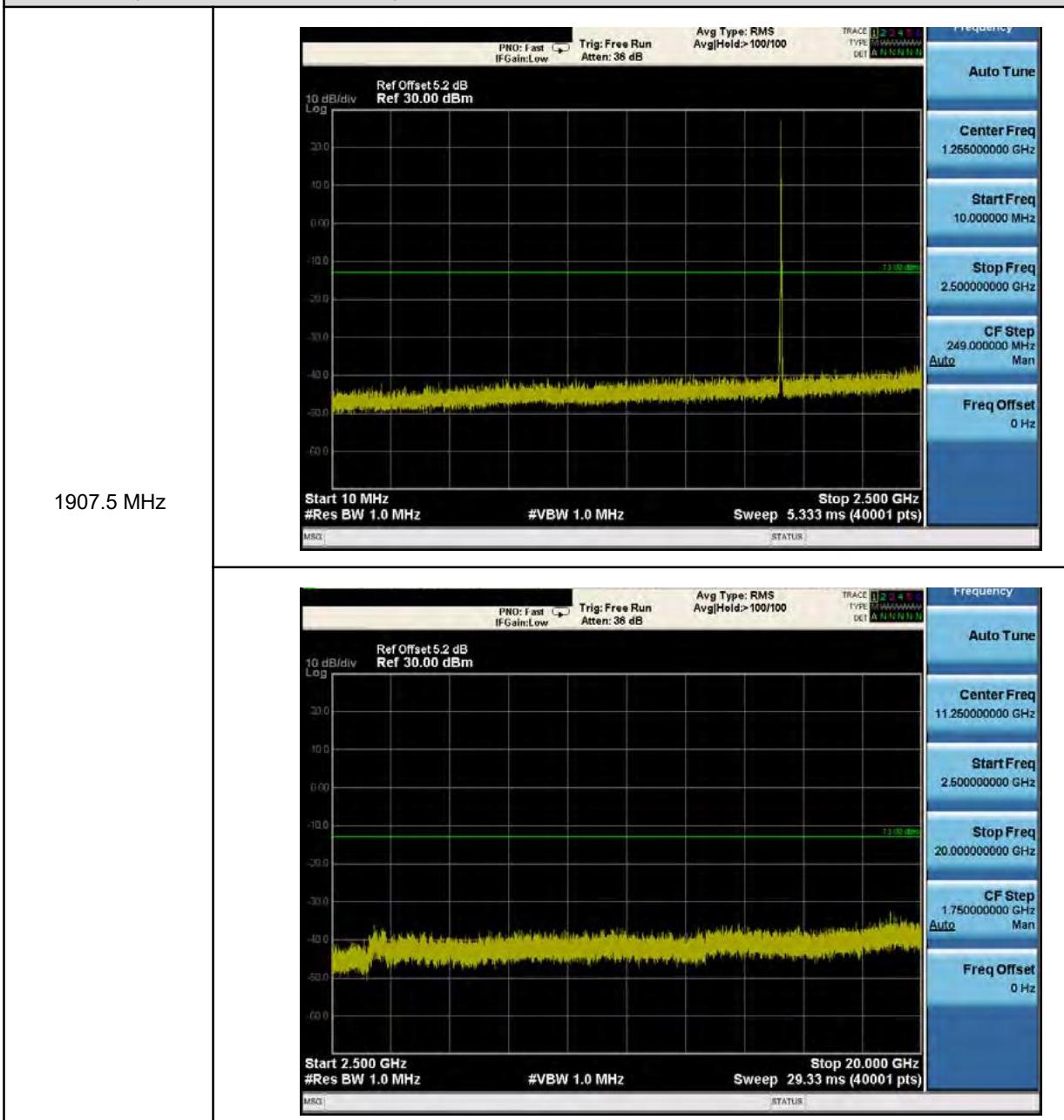


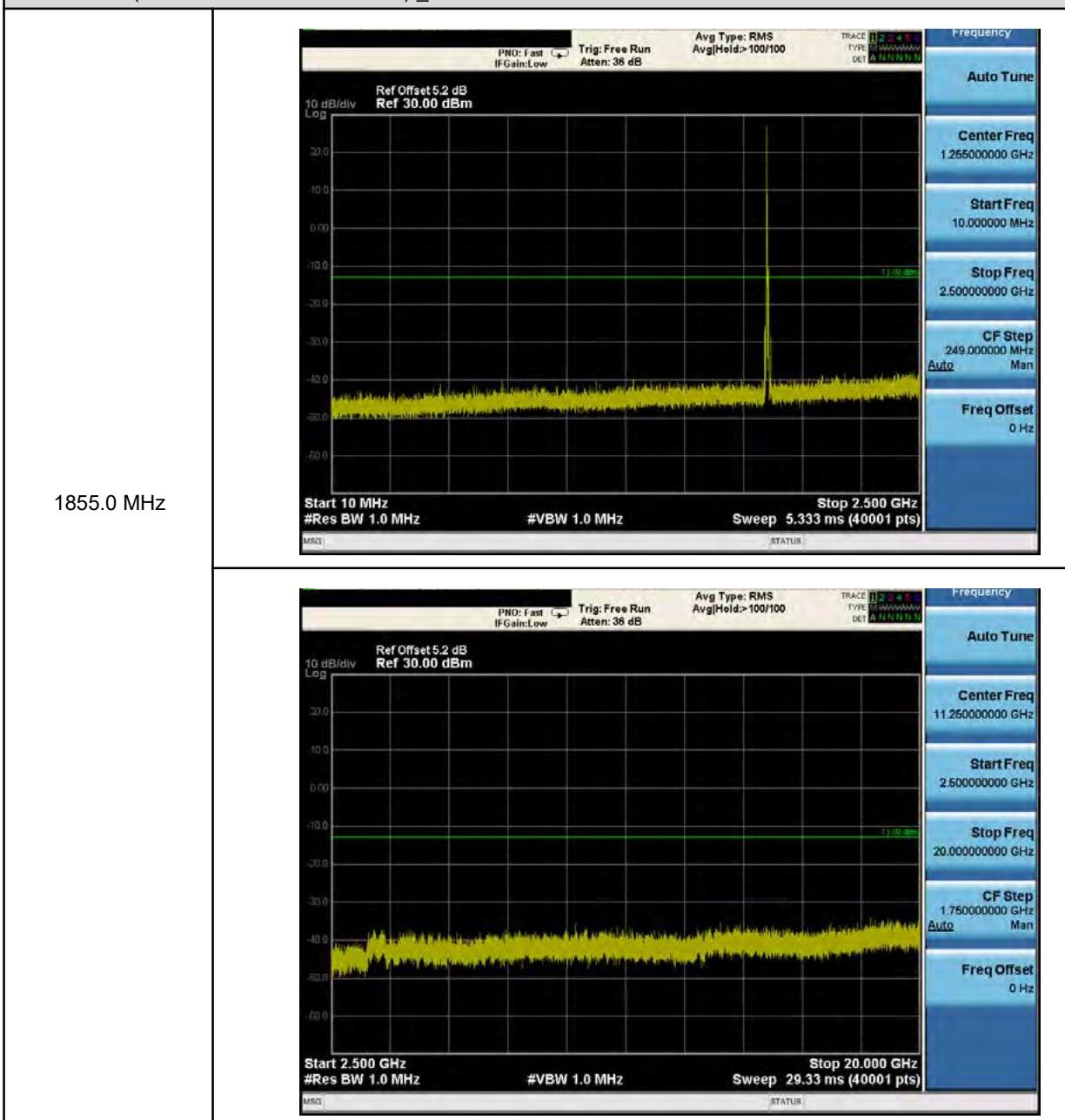






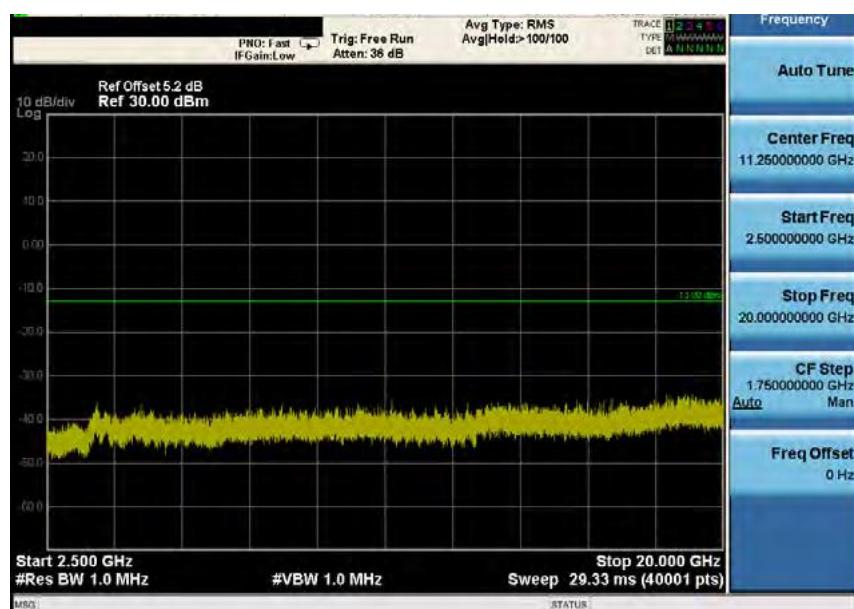
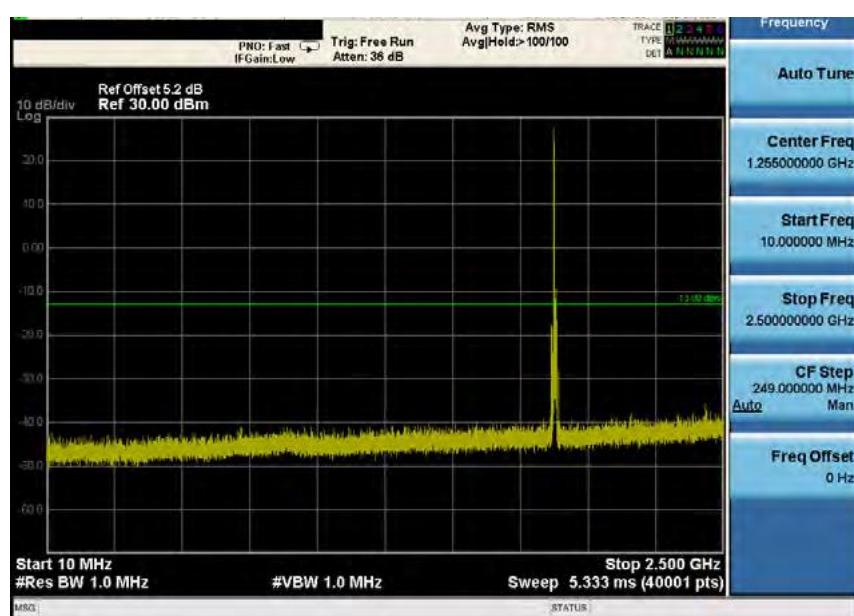
LTE Band 2 (Channel Bandwidth: 5 MHz) _ QPSK



LTE Band 2 (Channel Bandwidth: 10 MHz) _ QPSK


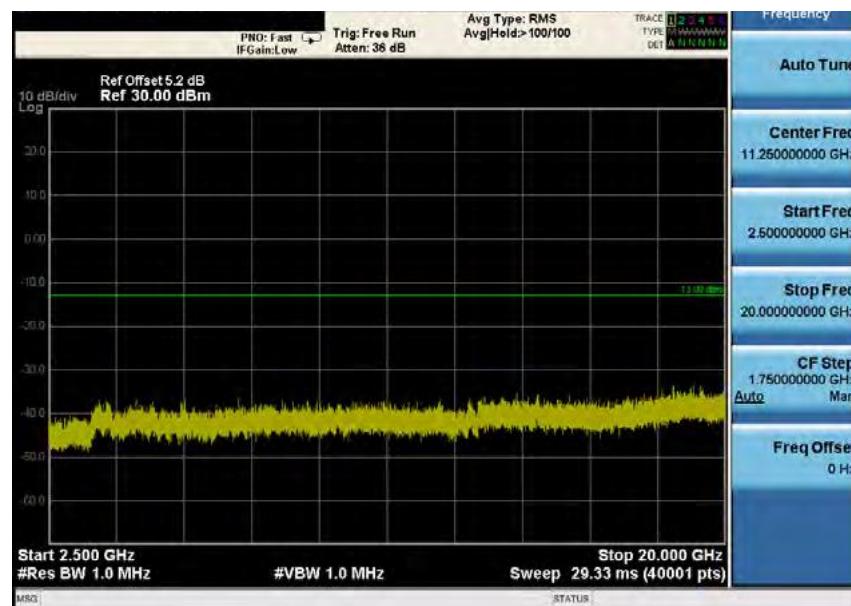
LTE Band 2 (Channel Bandwidth: 10 MHz) _ QPSK

1880.0 MHz



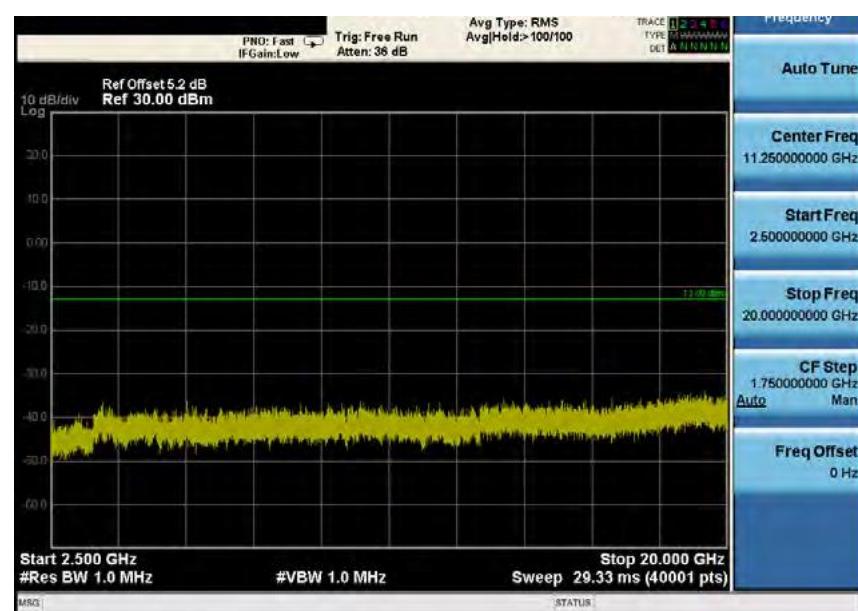
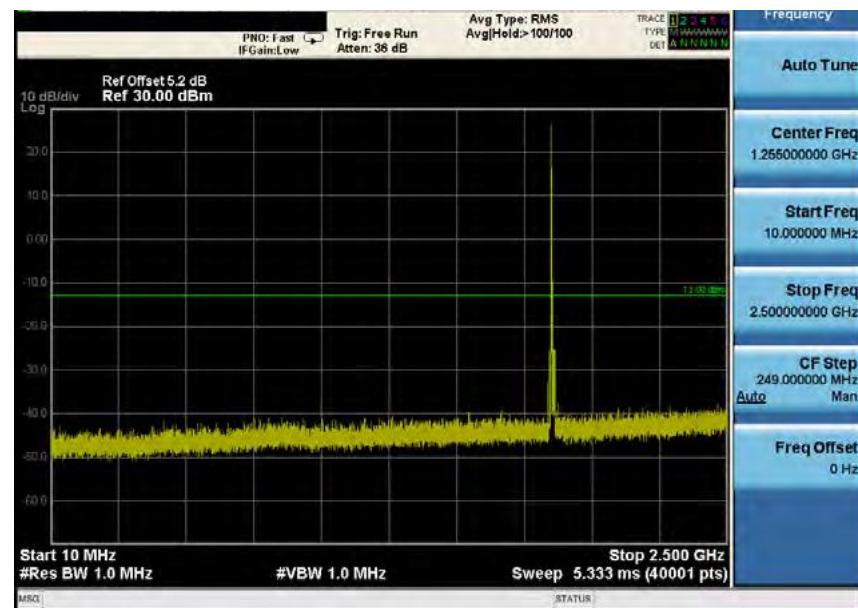
LTE Band 2 (Channel Bandwidth: 10 MHz) _ QPSK

1905.0 MHz



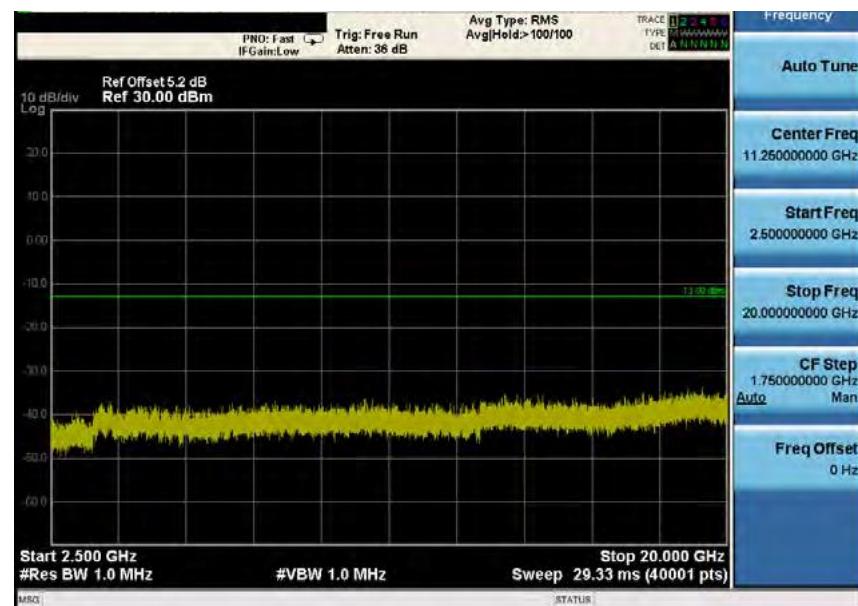
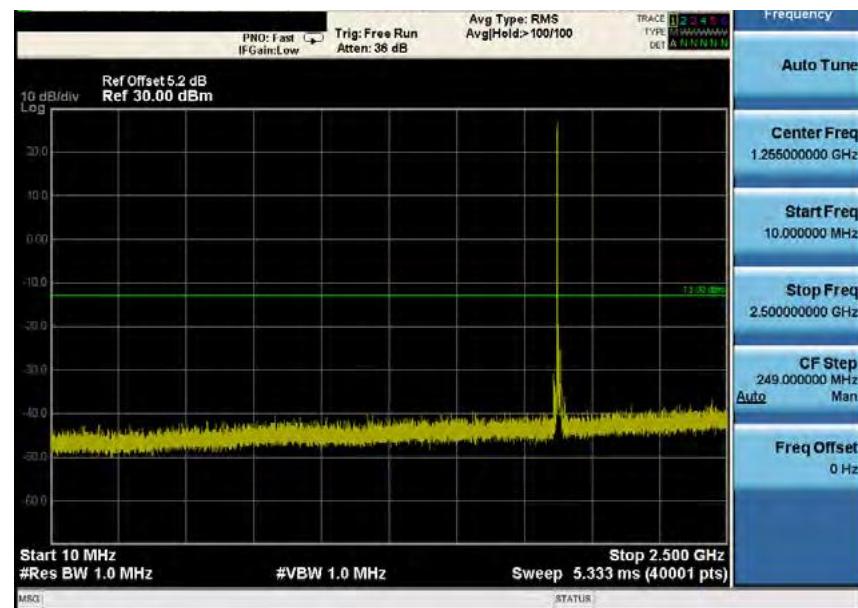
LTE Band 2 (Channel Bandwidth: 15 MHz) _ QPSK

1857.5 MHz



LTE Band 2 (Channel Bandwidth: 15 MHz) _ QPSK

1880.0 MHz



LTE Band 2 (Channel Bandwidth: 15 MHz) _ QPSK

1902.5 MHz

