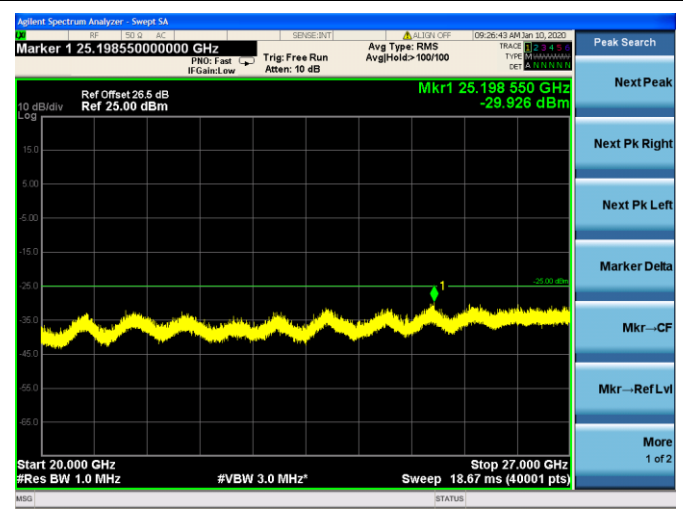
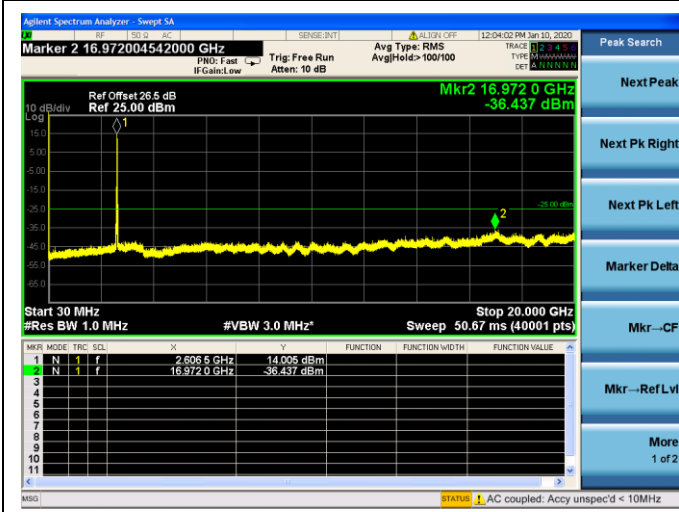
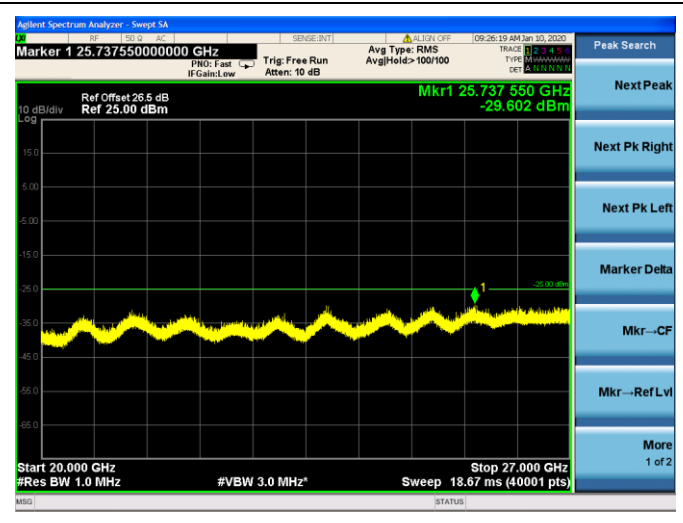
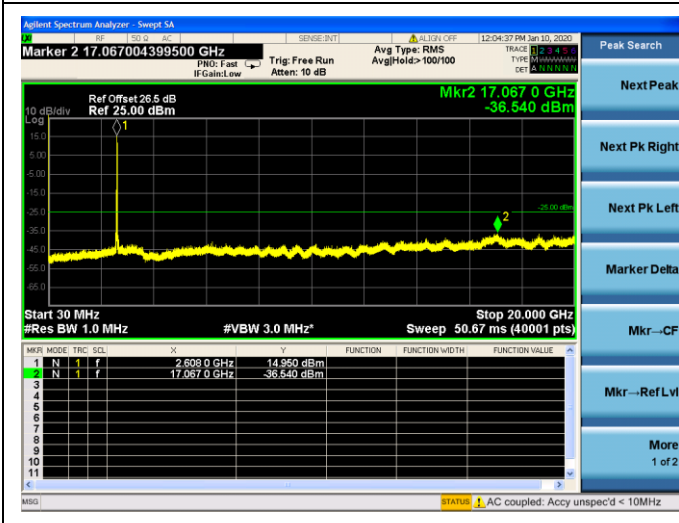




15MHz/QPSK/Mid CH

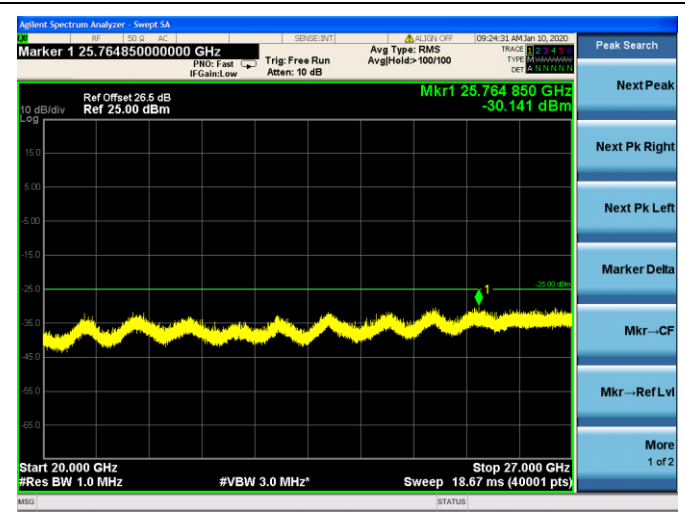
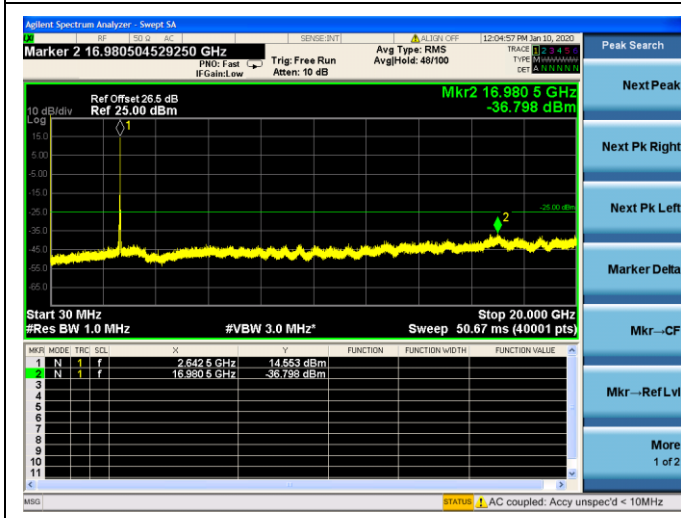


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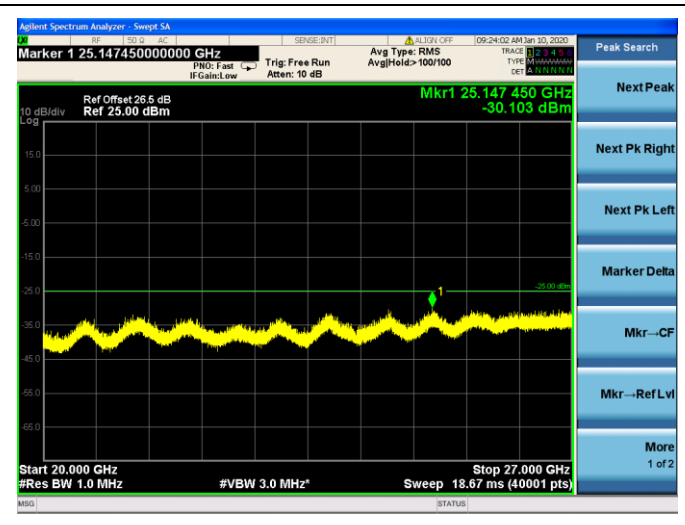
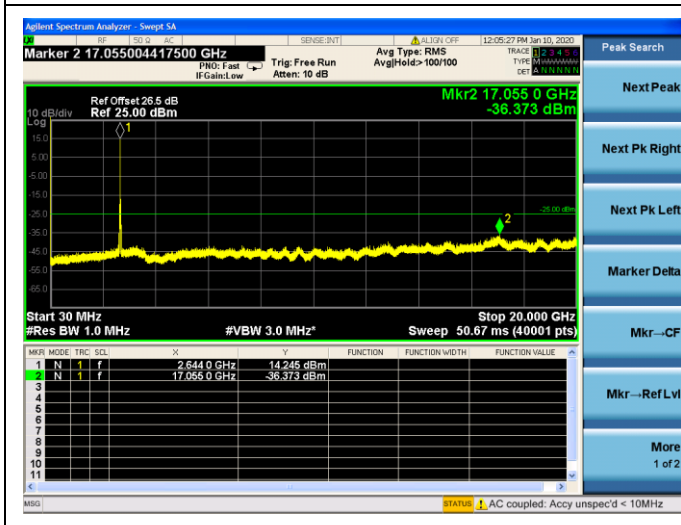




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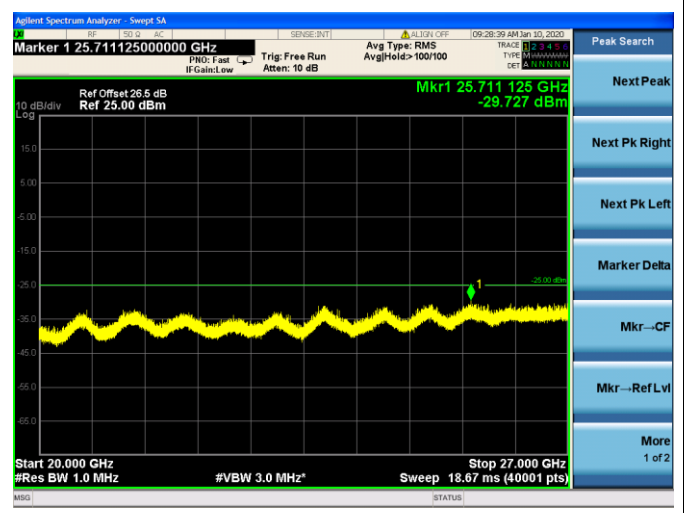
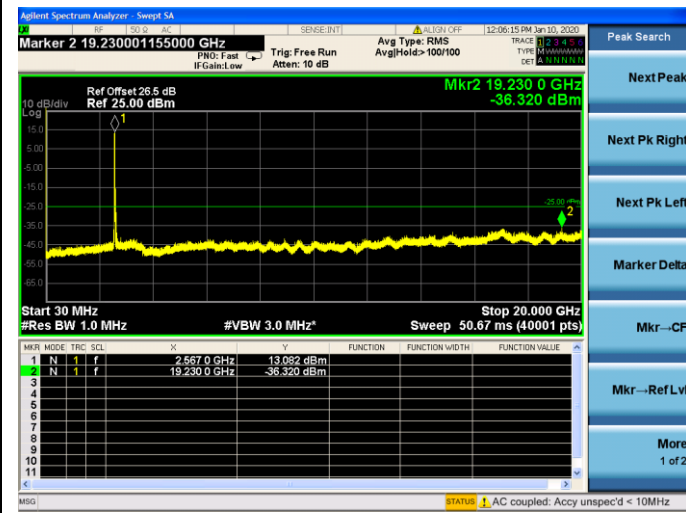


15MHz/16QAM/High CH

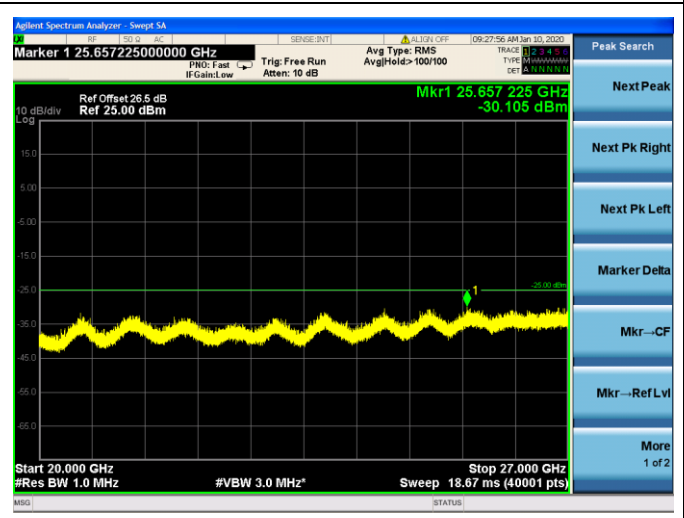
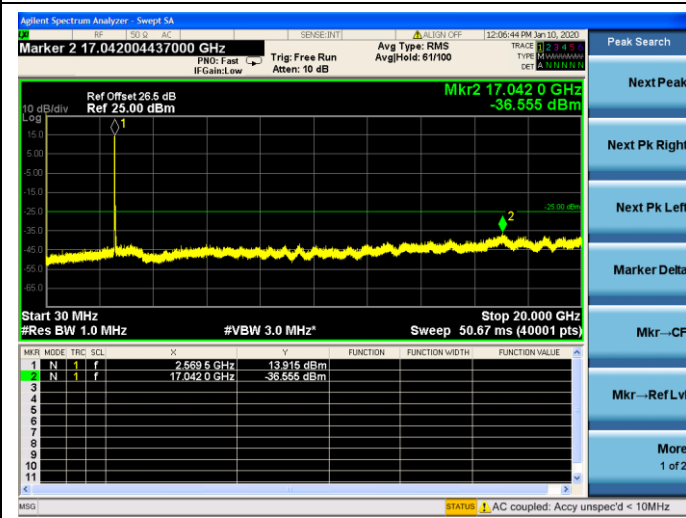




20MHz/QPSK/Low CH

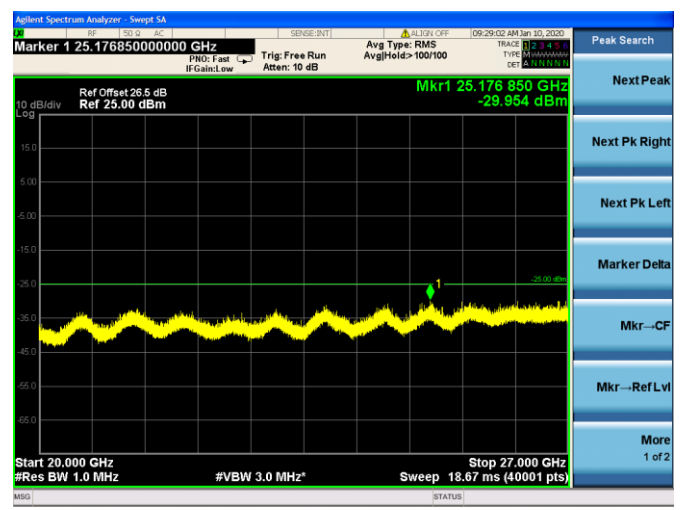
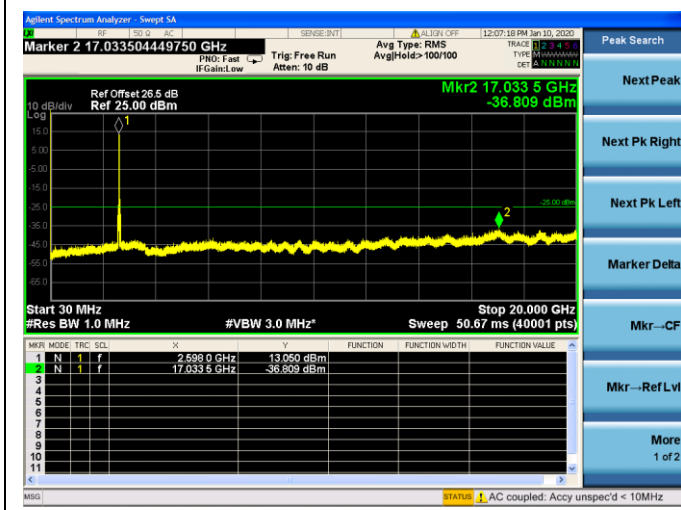


20MHz/16QAM/Low CH

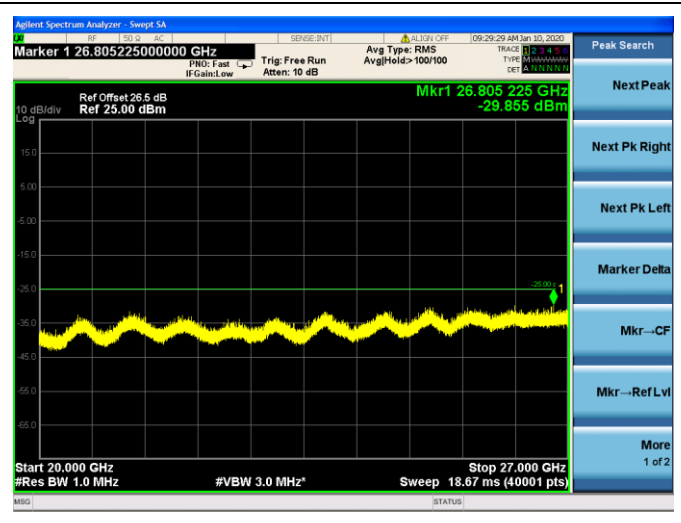
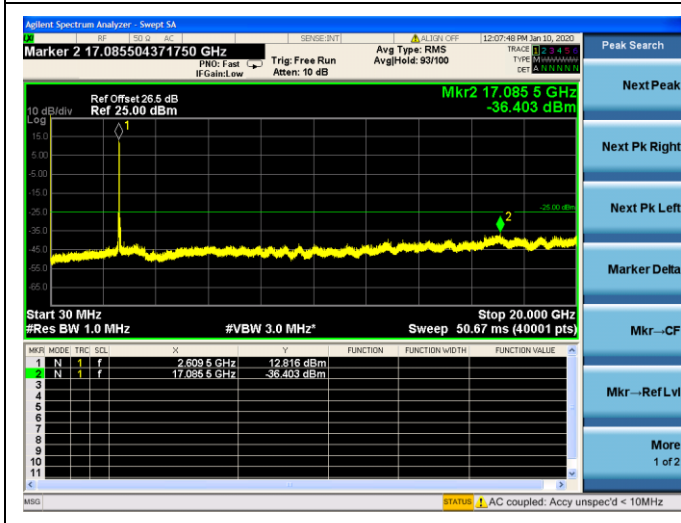




20MHz/QPSK/Mid CH

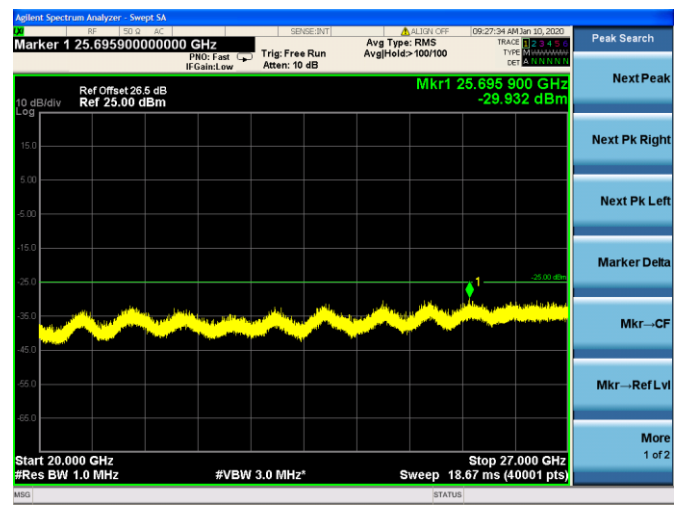
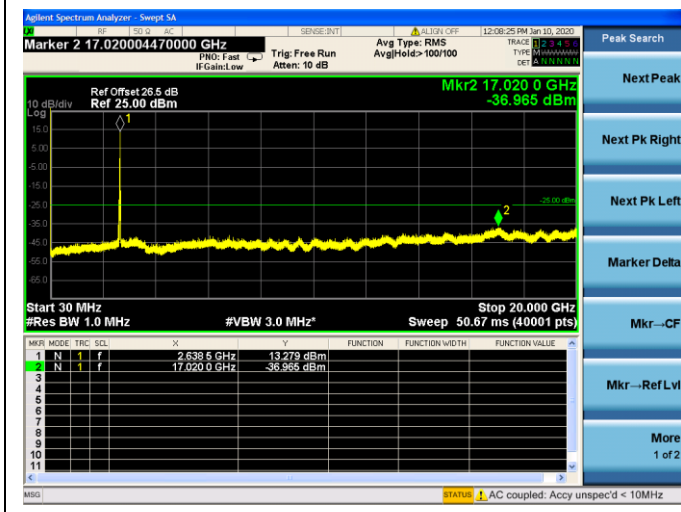


20MHz/16QAM/Mid CH

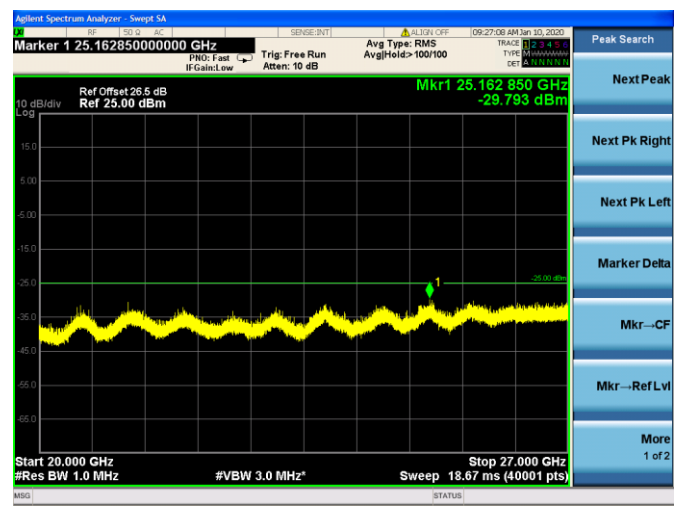
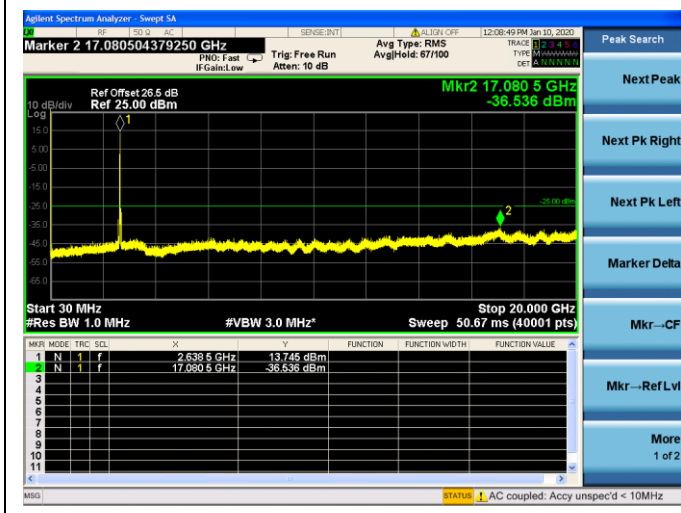




20MHz/QPSK/High CH



20MHz/16QAM/High CH





2.6. Band Edge

2.6.1. Requirement

According to FCC section 22.917(a), 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.

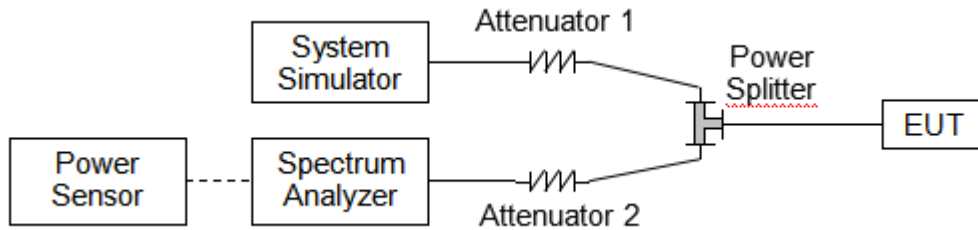
According to FCC section 24.238(a), The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 27.53(g), For operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC section 27.53(h), For operations in the 1710–1755MHz bands, 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.

According to FCC section 27.53(m) (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.

2.6.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.6.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.6.4. Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.



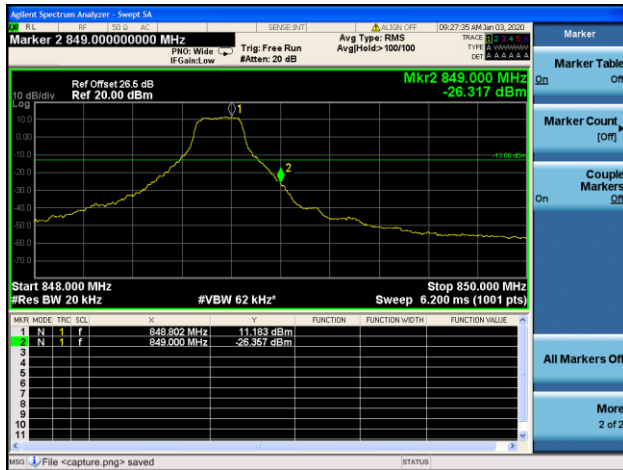
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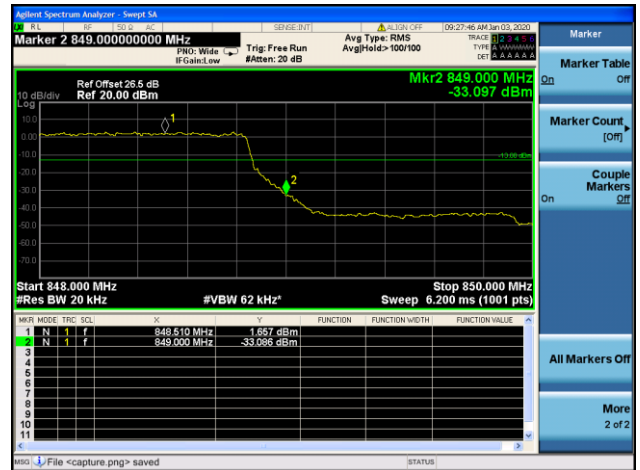
Band5 / 1.4MHz / Low CH / QPSK / FULL RB



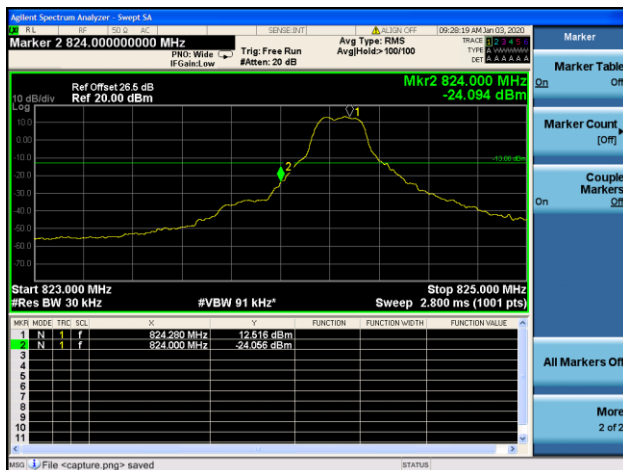
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Band5 / 1.4MHz / High CH / QPSK / FULL RB



Band5 / 3MHz / Low CH / QPSK / 1 RB

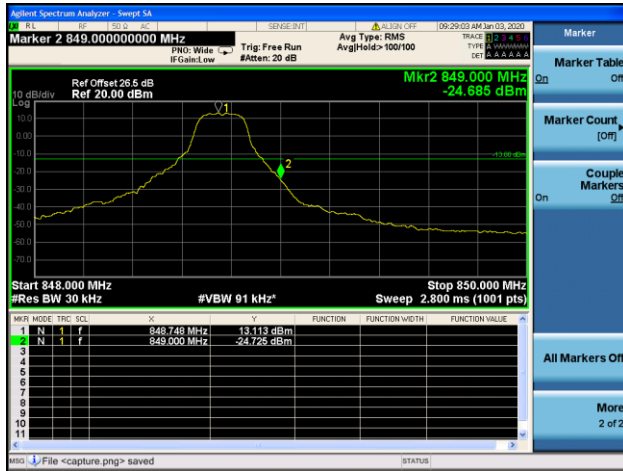


Band5 / 3MHz / Low CH / QPSK / FULL RB

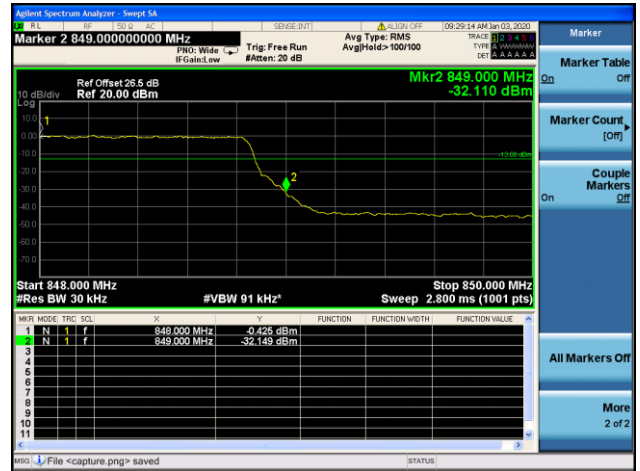




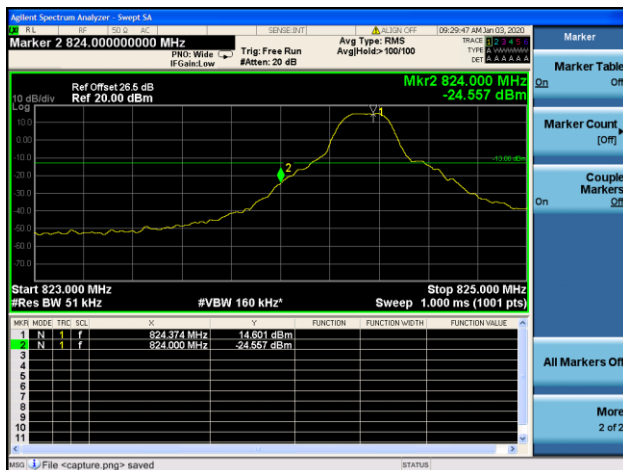
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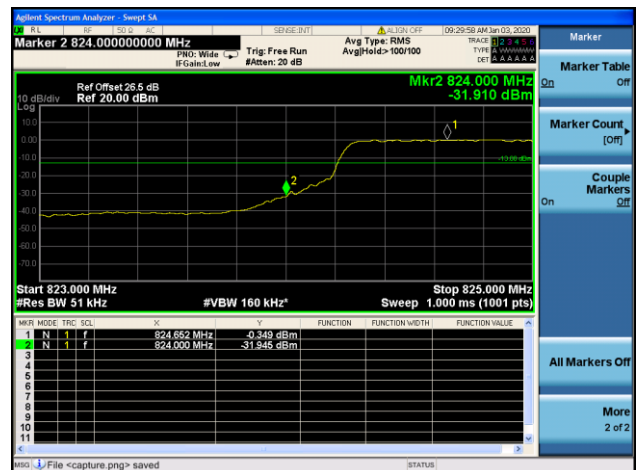
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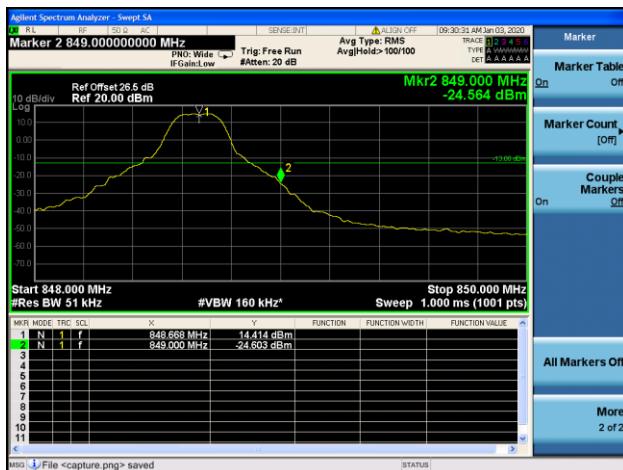
Band5 / 5MHz / Low CH / QPSK / 1 RB



Band5 / 5MHz / Low CH / QPSK / FULL RB



Band5 / 5MHz / High CH / QPSK / 1 RB



Band5 / 5MHz / High CH / QPSK / FULL RB





Band5 / 10MHz / Low CH / QPSK / 1 RB



Band5 / 10MHz / Low CH / QPSK / FULL RB



Band5 / 10MHz / High CH / QPSK / 1 RB



Band5 / 10MHz / High CH / QPSK / FULL RB





LTE Band 7

Channel Bandwidth: 5MHz

Channel	20775	1RB	Channel	20775	FULL RB																																																																																																
<table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>Δ Limit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>2.4750 GHz</td> <td>2.4940 GHz</td> <td>1.000 MHz</td> <td>2.491973333 GHz</td> <td>-49.34 dBm</td> <td>-24.34 dB</td> </tr> <tr> <td>2</td> <td>2</td> <td>2.4940 GHz</td> <td>2.4950 GHz</td> <td>1.000 MHz</td> <td>2.494635000 GHz</td> <td>-48.96 dBm</td> <td>-35.96 dB</td> </tr> <tr> <td>3</td> <td>3</td> <td>2.4950 GHz</td> <td>2.4990 GHz</td> <td>1.000 MHz</td> <td>2.498908000 GHz</td> <td>-42.63 dBm</td> <td>-2.333 dB</td> </tr> <tr> <td>4</td> <td>4</td> <td>2.4990 GHz</td> <td>2.5000 GHz</td> <td>120.0 kHz</td> <td>2.499616667 GHz</td> <td>-22.98 dBm</td> <td>-57.98 dB</td> </tr> <tr> <td>5</td> <td>5</td> <td>2.5000 GHz</td> <td>2.5050 GHz</td> <td>100.0 kHz</td> <td>2.500341667 GHz</td> <td>-11.89 dBm</td> <td>-23.11 dB</td> </tr> </tbody> </table>			Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit	1	1	2.4750 GHz	2.4940 GHz	1.000 MHz	2.491973333 GHz	-49.34 dBm	-24.34 dB	2	2	2.4940 GHz	2.4950 GHz	1.000 MHz	2.494635000 GHz	-48.96 dBm	-35.96 dB	3	3	2.4950 GHz	2.4990 GHz	1.000 MHz	2.498908000 GHz	-42.63 dBm	-2.333 dB	4	4	2.4990 GHz	2.5000 GHz	120.0 kHz	2.499616667 GHz	-22.98 dBm	-57.98 dB	5	5	2.5000 GHz	2.5050 GHz	100.0 kHz	2.500341667 GHz	-11.89 dBm	-23.11 dB	<table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>Δ Limit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>2.4750 GHz</td> <td>2.4940 GHz</td> <td>1.000 MHz</td> <td>2.491435000 GHz</td> <td>-58.16 dBm</td> <td>-33.16 dB</td> </tr> <tr> <td>2</td> <td>2</td> <td>2.4940 GHz</td> <td>2.4950 GHz</td> <td>1.000 MHz</td> <td>2.494635000 GHz</td> <td>-48.38 dBm</td> <td>-35.38 dB</td> </tr> <tr> <td>3</td> <td>3</td> <td>2.4950 GHz</td> <td>2.4990 GHz</td> <td>1.000 MHz</td> <td>2.498880000 GHz</td> <td>-23.16 dBm</td> <td>-13.16 dB</td> </tr> <tr> <td>4</td> <td>4</td> <td>2.4990 GHz</td> <td>2.5000 GHz</td> <td>120.0 kHz</td> <td>2.499300000 GHz</td> <td>-32.24 dBm</td> <td>-67.24 dB</td> </tr> <tr> <td>5</td> <td>5</td> <td>2.5000 GHz</td> <td>2.5050 GHz</td> <td>100.0 kHz</td> <td>2.500750000 GHz</td> <td>-1.432 dBm</td> <td>-33.57 dB</td> </tr> </tbody> </table>			Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit	1	1	2.4750 GHz	2.4940 GHz	1.000 MHz	2.491435000 GHz	-58.16 dBm	-33.16 dB	2	2	2.4940 GHz	2.4950 GHz	1.000 MHz	2.494635000 GHz	-48.38 dBm	-35.38 dB	3	3	2.4950 GHz	2.4990 GHz	1.000 MHz	2.498880000 GHz	-23.16 dBm	-13.16 dB	4	4	2.4990 GHz	2.5000 GHz	120.0 kHz	2.499300000 GHz	-32.24 dBm	-67.24 dB	5	5	2.5000 GHz	2.5050 GHz	100.0 kHz	2.500750000 GHz	-1.432 dBm	-33.57 dB
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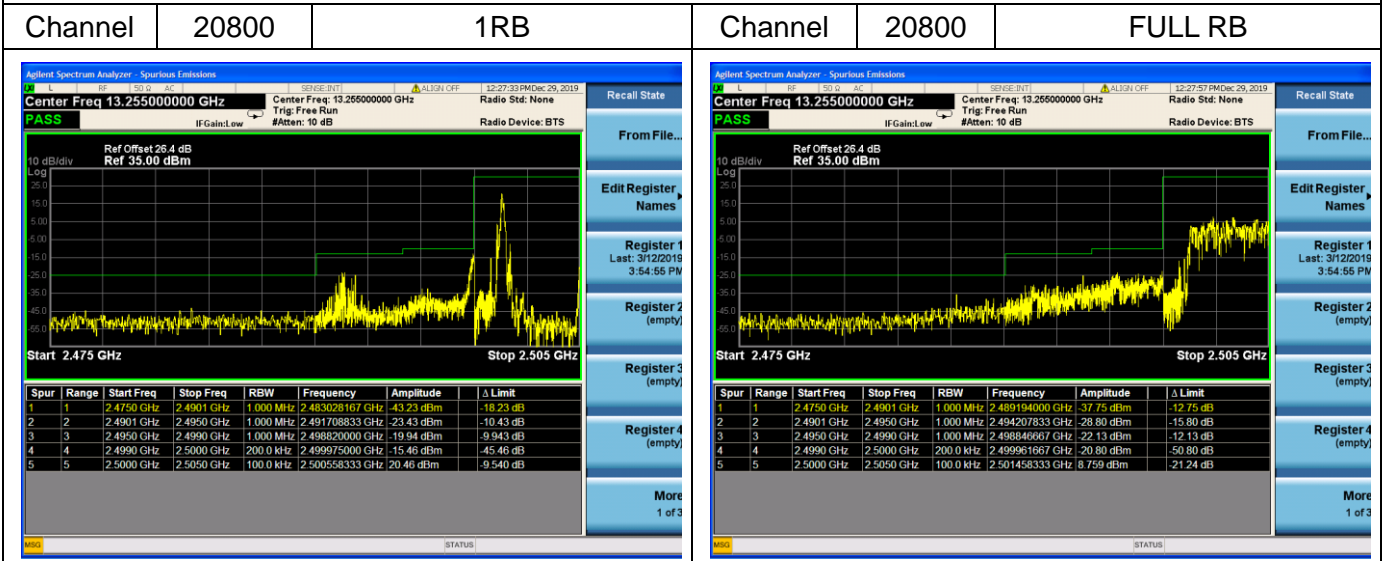
Channel Bandwidth: 5MHz

Channel	21425	1RB	Channel	21425	FULL RB																																																																																																
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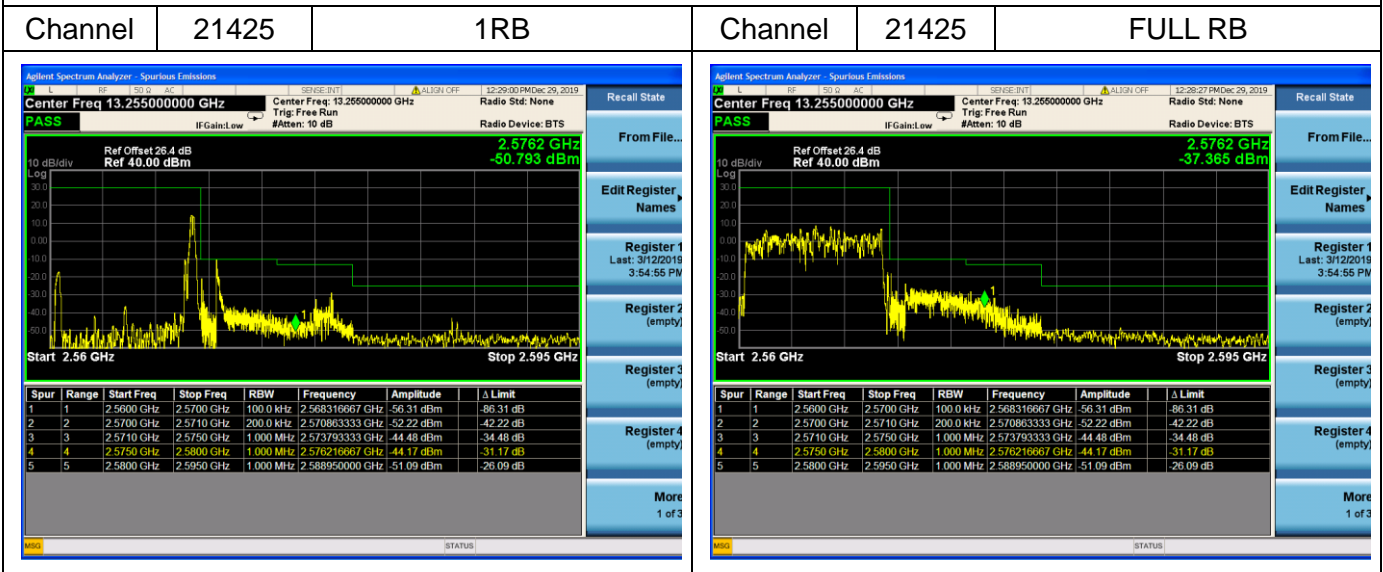


LTE Band 7

Channel Bandwidth: 10MHz



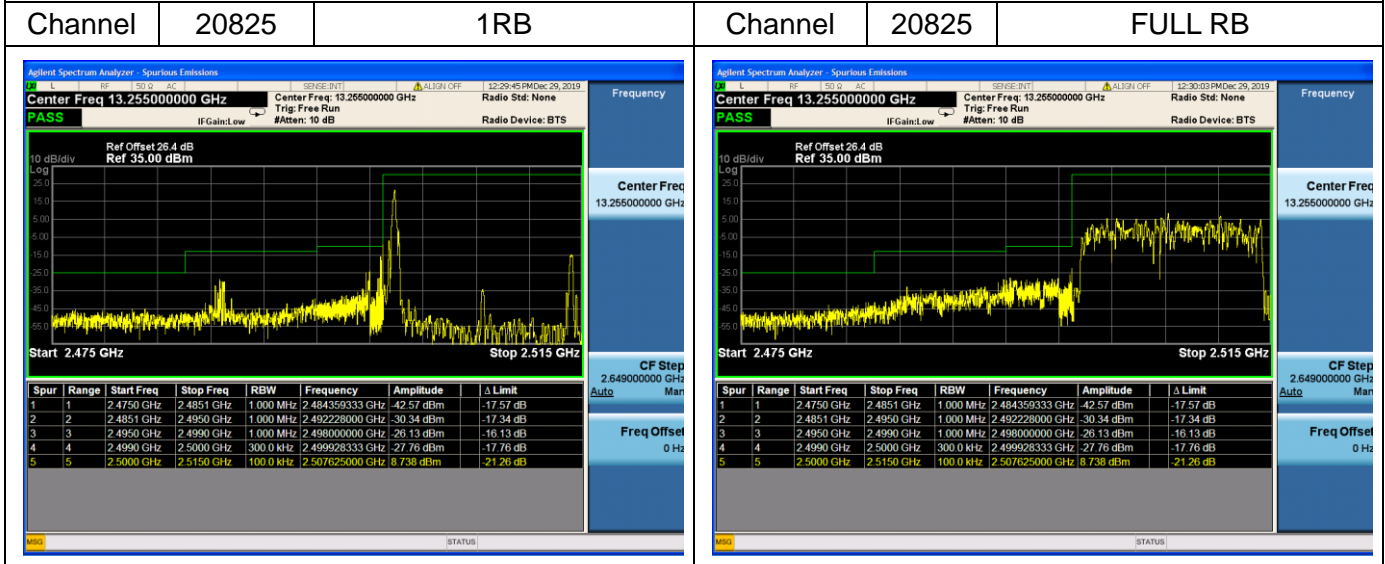
Channel Bandwidth: 10MHz



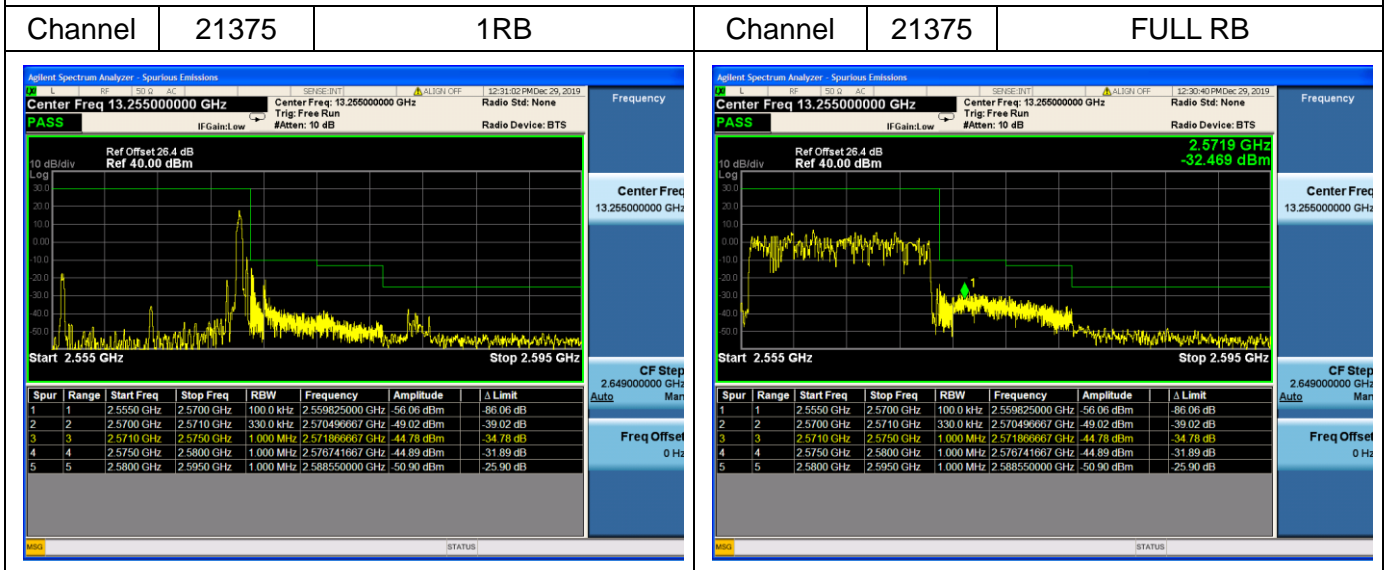


LTE Band 7

Channel Bandwidth: 15MHz



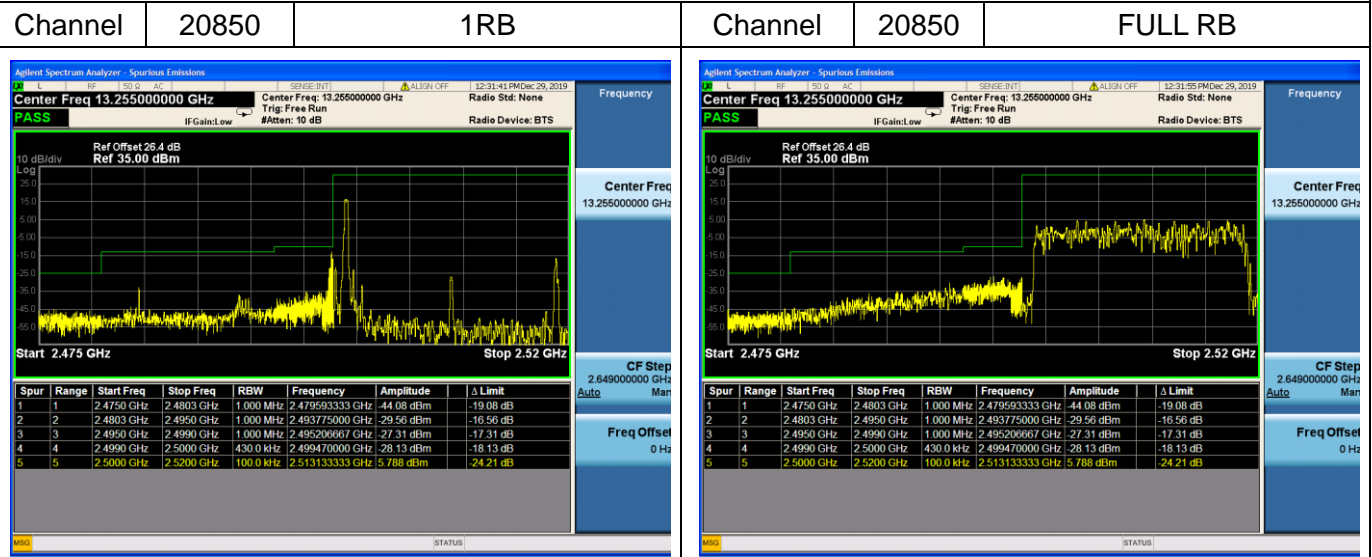
Channel Bandwidth: 15MHz





LTE Band 7

Channel Bandwidth: 20MHz



Channel Bandwidth: 20MHz

