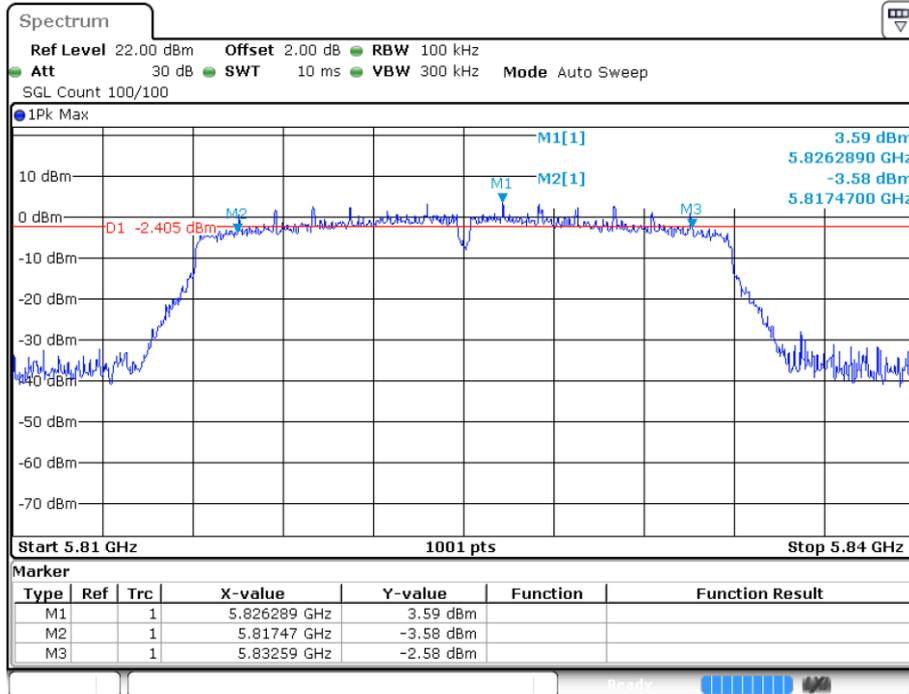
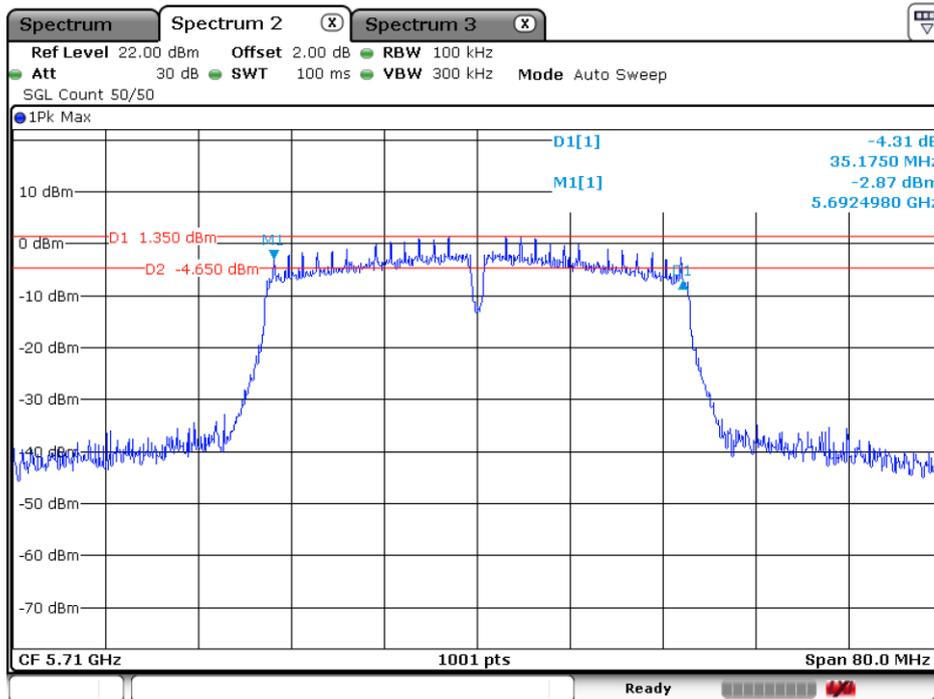


4.6.2.12 11AC20_165 ANT 1



Date: 2.NOV.2019 00:59:49

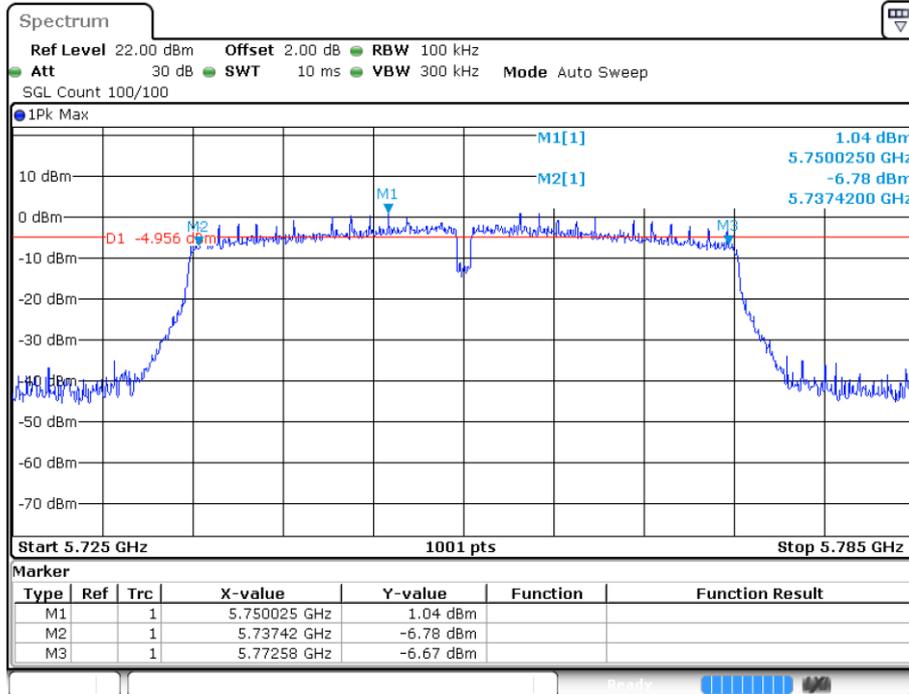
4.6.2.13 11AC40_142 ANT 1



Date: 14.DEC.2019 05:56:54

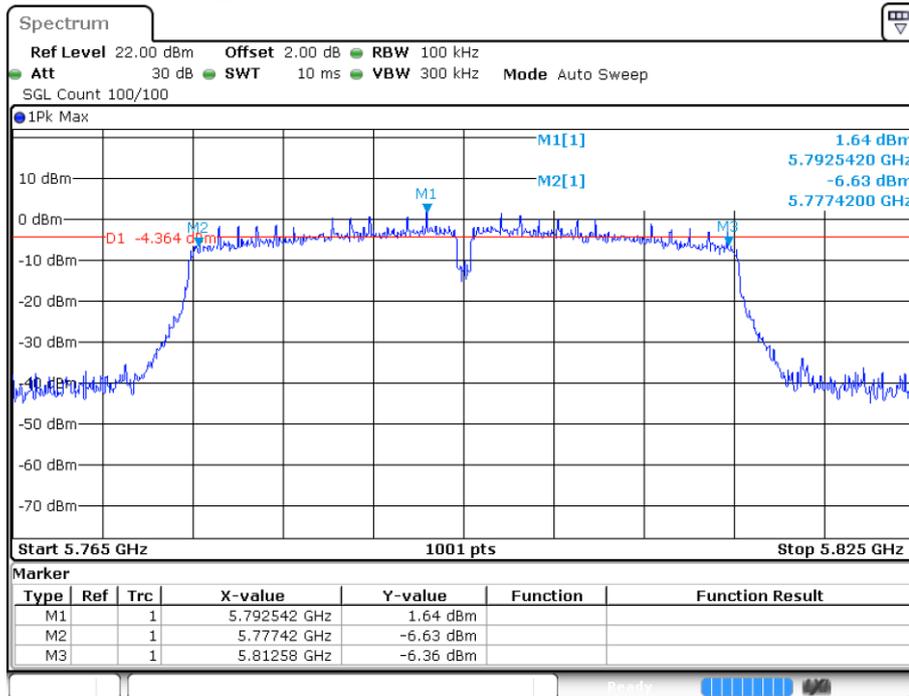


4.6.2.14 11AC40_151 ANT 1



Date: 2.NOV.2019 04:48:37

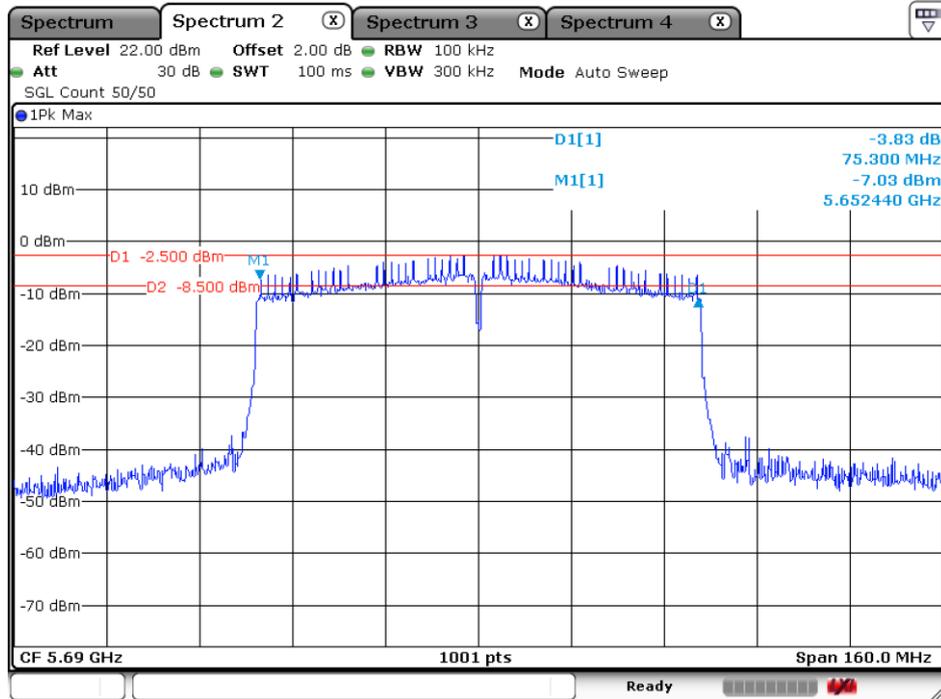
4.6.2.15 11AC40_159 ANT 1



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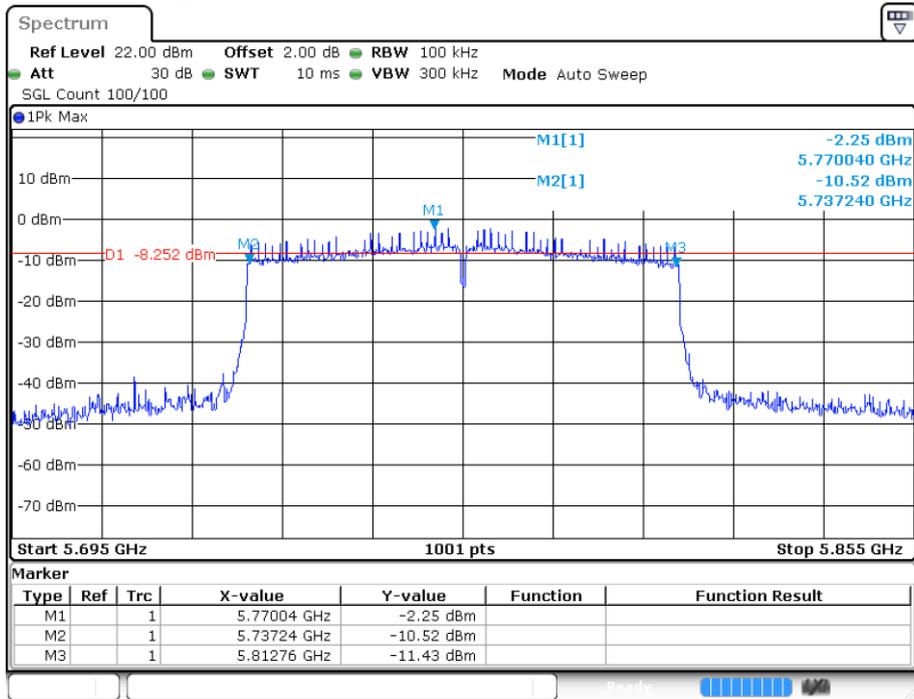


4.6.2.16 11AC80_138 ANT 1



Date: 14.DEC.2019 06:11:43

4.6.2.17 11AC80_155 ANT 1



Date: 2.NOV.2019 04:59:45



4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)					
Test Method:	ANSI C63.10: 2013					
Test Setup:						
Test Instruments:	Refer to section 5.10 for details					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates					
Final Test Mode:	<p>Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.</p>					
Limit:	<table border="1"> <tr> <th>Frequency Band</th> <th>Limit</th> </tr> <tr> <td>5725-5850MHz</td> <td>At lease 500kHz</td> </tr> </table>	Frequency Band	Limit	5725-5850MHz	At lease 500kHz	
Frequency Band	Limit					
5725-5850MHz	At lease 500kHz					
Test Results:	Pass					



4.7.1 Test Results for 99% Occupied Bandwidth

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	16.6933	PASS
	48	5240	ANT 1	16.6633	PASS
	52	5260	ANT 1	16.6933	PASS
	64	5320	ANT 1	16.6633	PASS
	100	5500	ANT 1	16.6933	PASS
	140	5700	ANT 1	16.6933	PASS
	144	5720	ANT 1	16.9030	PASS
	149	5745	ANT 1	16.6933	PASS
	165	5825	ANT 1	16.7233	PASS
11N20	36	5180	ANT 1	17.7123	PASS
	48	5240	ANT 1	17.7123	PASS
	52	5260	ANT 1	17.7123	PASS
	64	5320	ANT 1	17.7423	PASS
	100	5500	ANT 1	17.6823	PASS
	140	5700	ANT 1	17.7123	PASS
	144	5720	ANT 1	17.9450	PASS
	149	5745	ANT 1	17.7423	PASS
	165	5825	ANT 1	17.7423	PASS
11N40	38	5190	ANT 1	36.2038	PASS
	46	5230	ANT 1	36.1439	PASS
	54	5270	ANT 1	36.1439	PASS
	62	5310	ANT 1	36.1439	PASS
	102	5510	ANT 1	36.0839	PASS
	134	5670	ANT 1	36.0839	PASS
	142	5720	ANT 1	36.2373	PASS
	151	5755	ANT 1	36.0839	PASS
	159	5795	ANT 1	36.1439	PASS
11AC20	36	5180	ANT 1	17.6823	PASS
	48	5240	ANT 1	17.6823	PASS
	52	5260	ANT 1	17.6823	PASS
	64	5320	ANT 1	17.7123	PASS
	100	5500	ANT 1	17.6823	PASS
	140	5700	ANT 1	17.7123	PASS
	144	5720	ANT 1	17.9450	PASS
	149	5745	ANT 1	17.6523	PASS
	165	5825	ANT 1	17.6823	PASS
11AC40	38	5190	ANT 1	36.0839	PASS
	46	5230	ANT 1	36.0839	PASS
	54	5270	ANT 1	36.0839	PASS
	62	5310	ANT 1	36.0839	PASS
	102	5510	ANT 1	36.0839	PASS
	134	5670	ANT 1	36.0839	PASS
	142	5720	ANT 1	36.1216	PASS
	151	5755	ANT 1	36.1439	PASS
	159	5795	ANT 1	36.0839	PASS



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11AC80	42	5210	ANT 1	75.1648	PASS
	58	5290	ANT 1	75.1648	PASS
	106	5530	ANT 1	75.1648	PASS
	138	5690	ANT 1	75.0217	PASS
	155	5775	ANT 1	75.1648	PASS

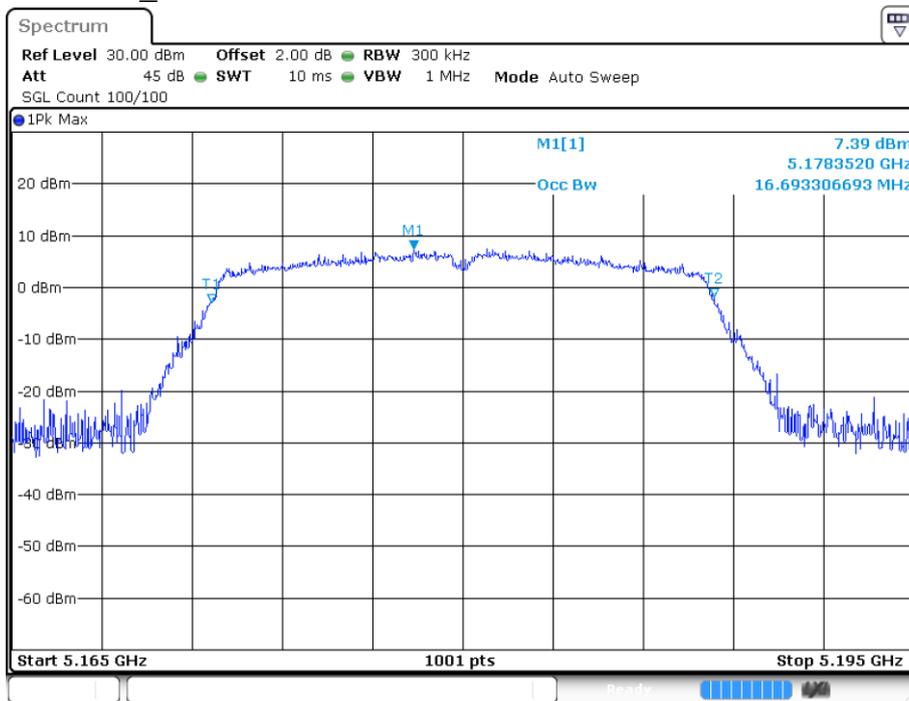


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4.7.2 Plots for 99% Occupied Bandwidth

4.7.2.1 11A20_36 ANT 1

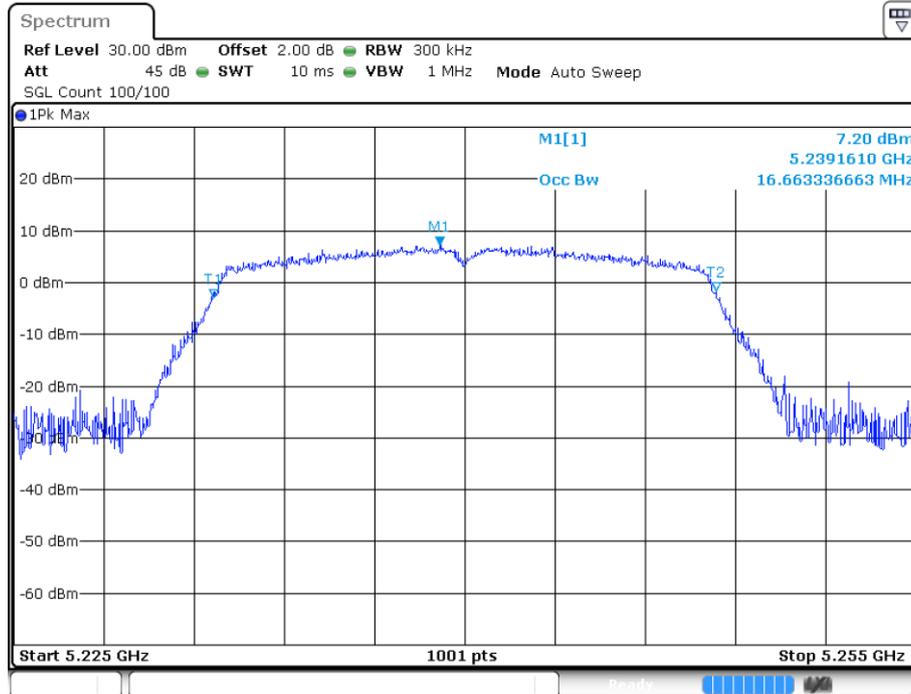


Date: 2.NOV.2019 00:26:18



4.7.2.2

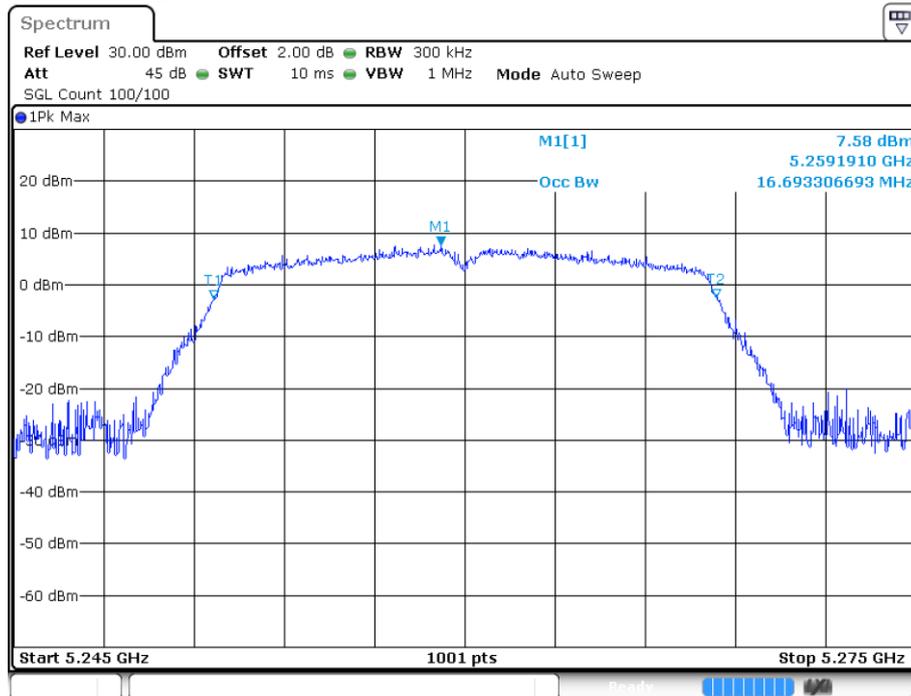
11A20_48 ANT 1



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4.7.2.3

11A20_52 ANT 1

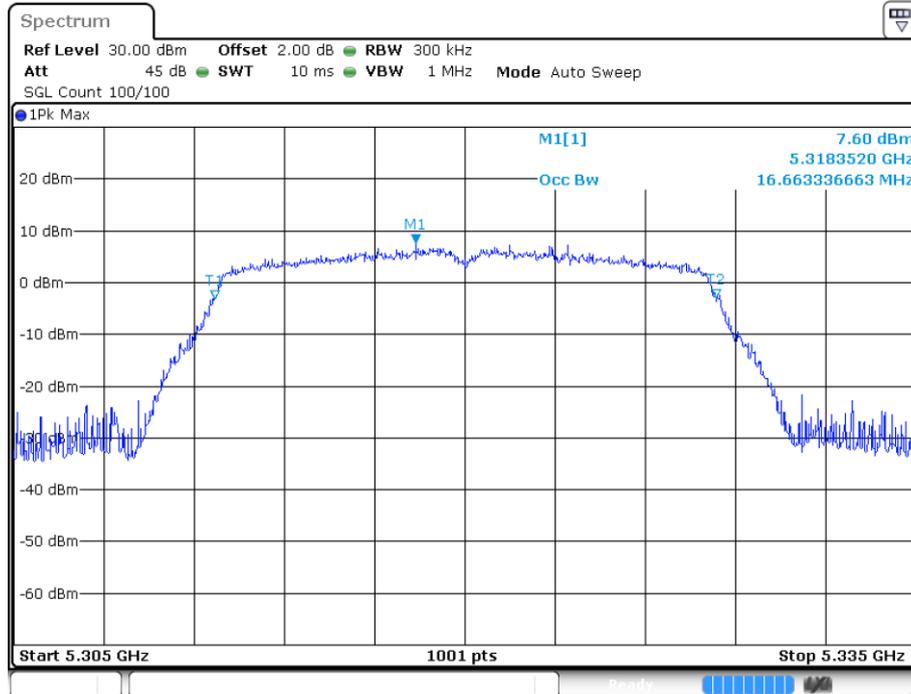


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4.7.2.4

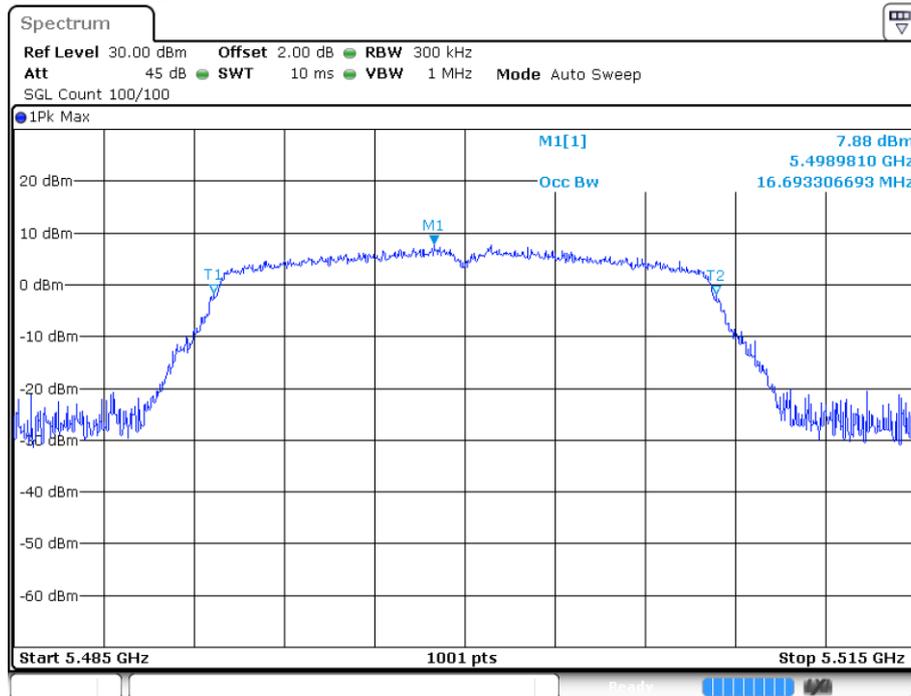
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4.7.2.5

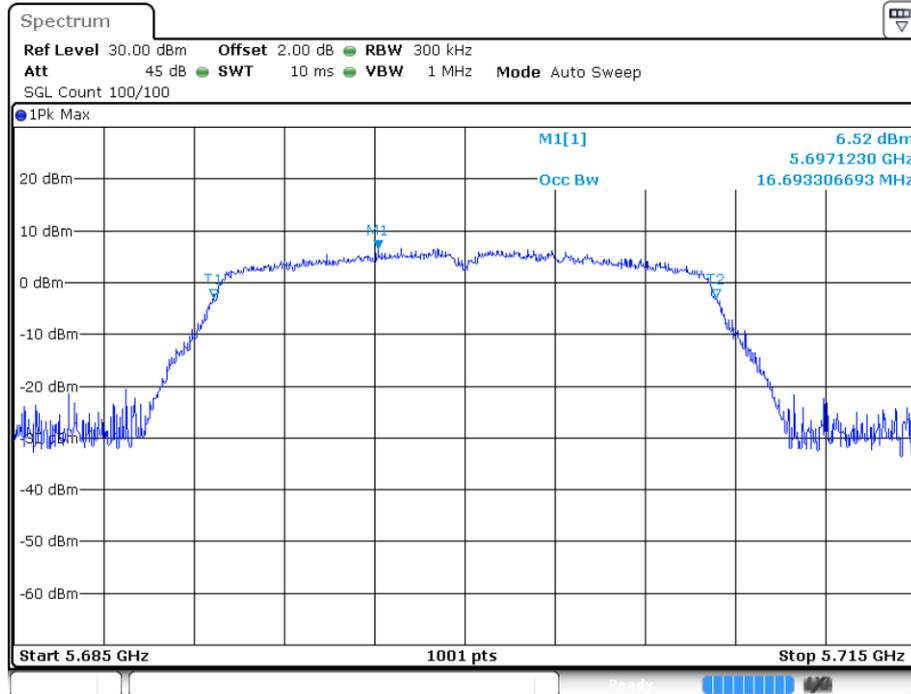
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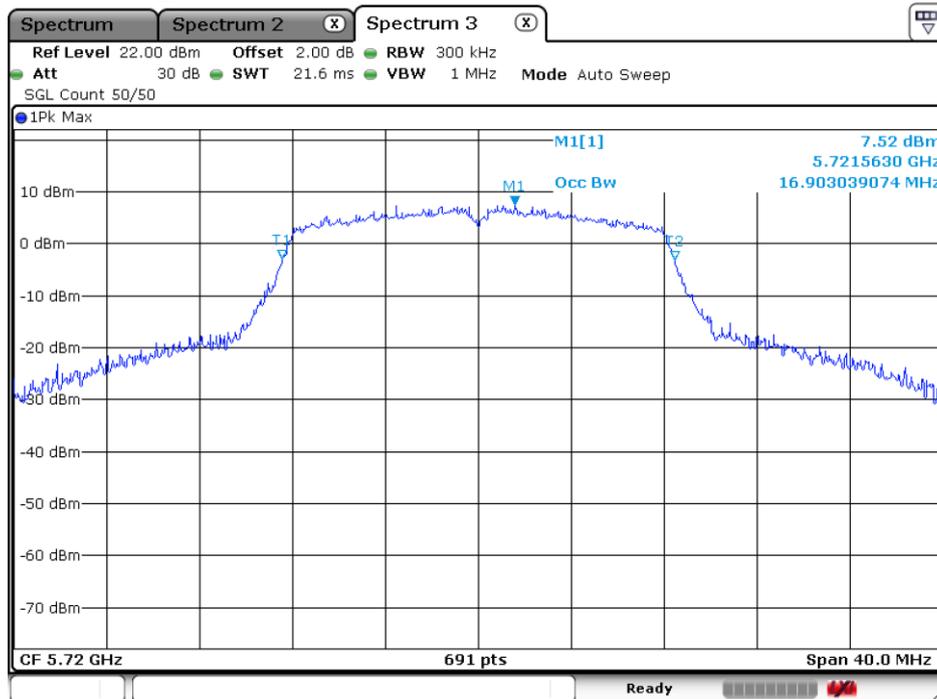


4.7.2.6 11A20_140 ANT 1



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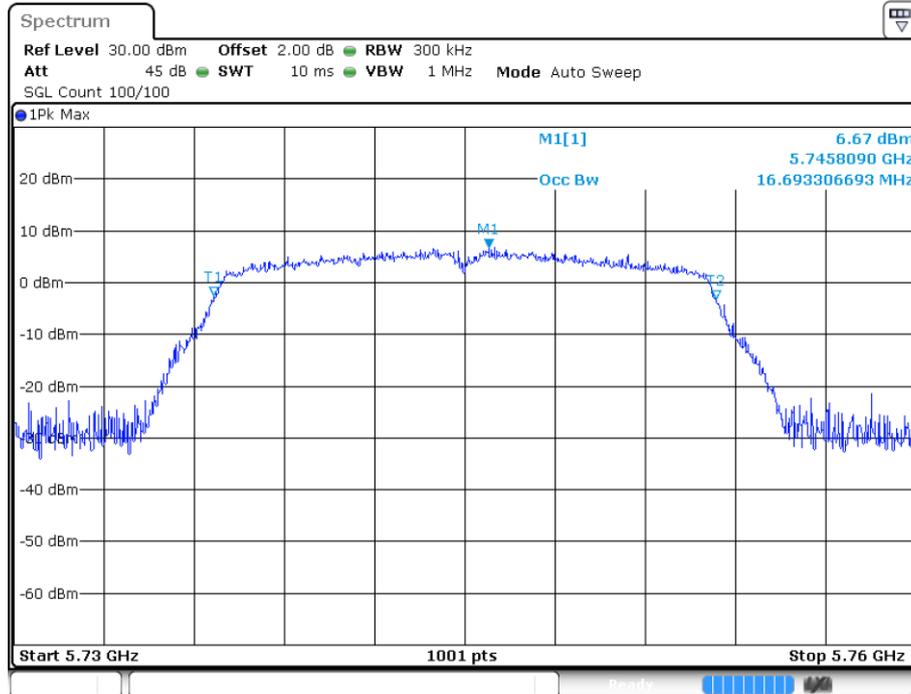
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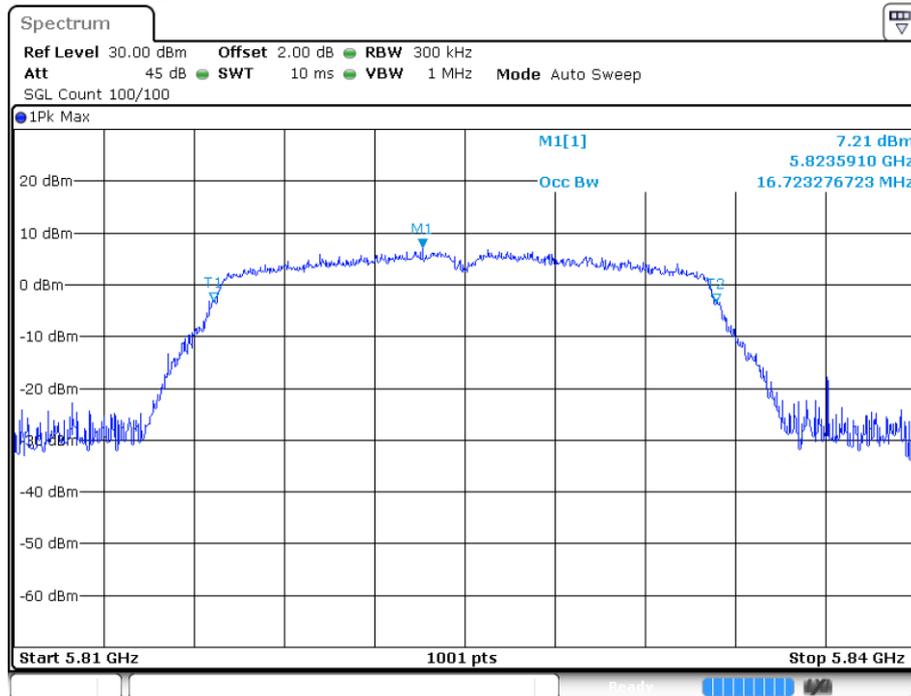


4.7.2.8 11A20_149 ANT 1



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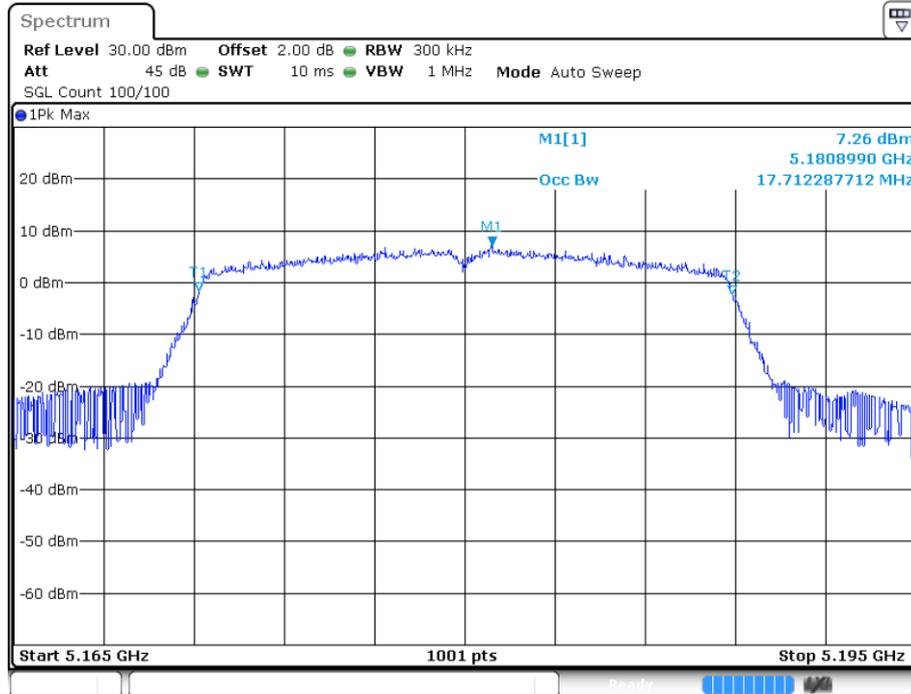
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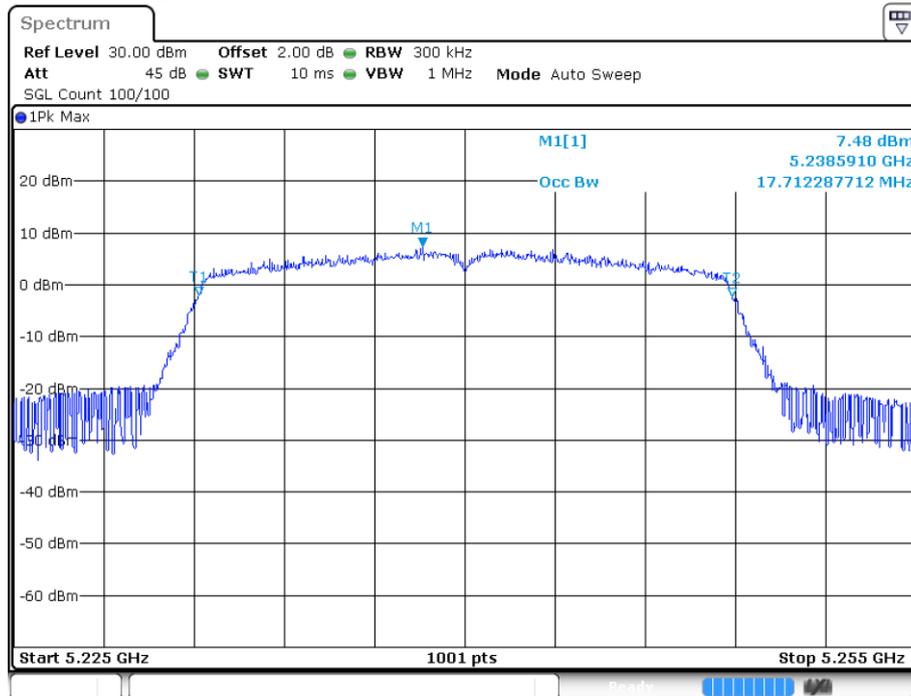


4.7.2.10 11N20_36 ANT 1



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4.7.2.11 11N20_48 ANT 1

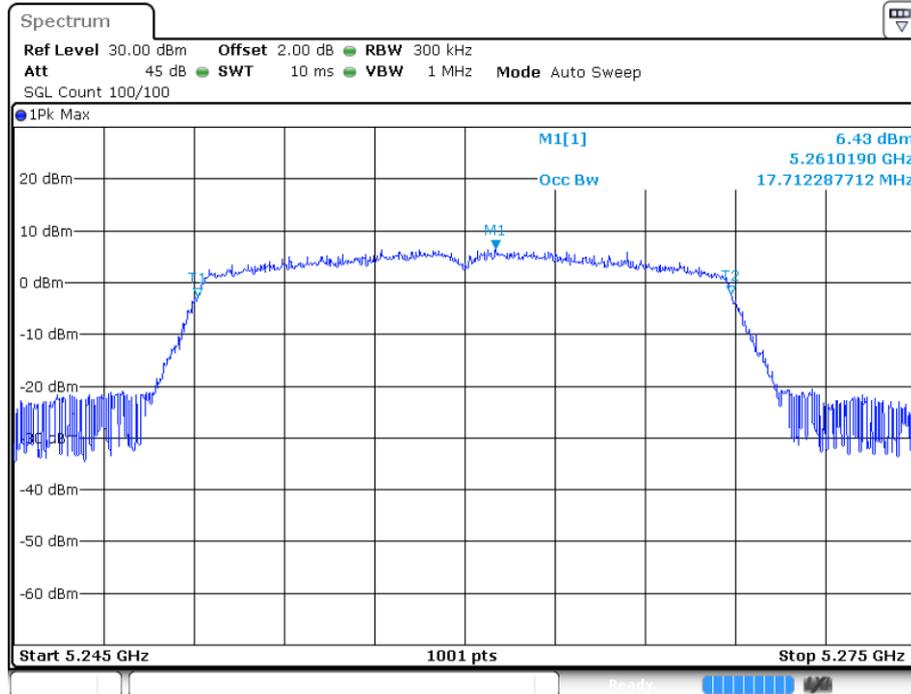


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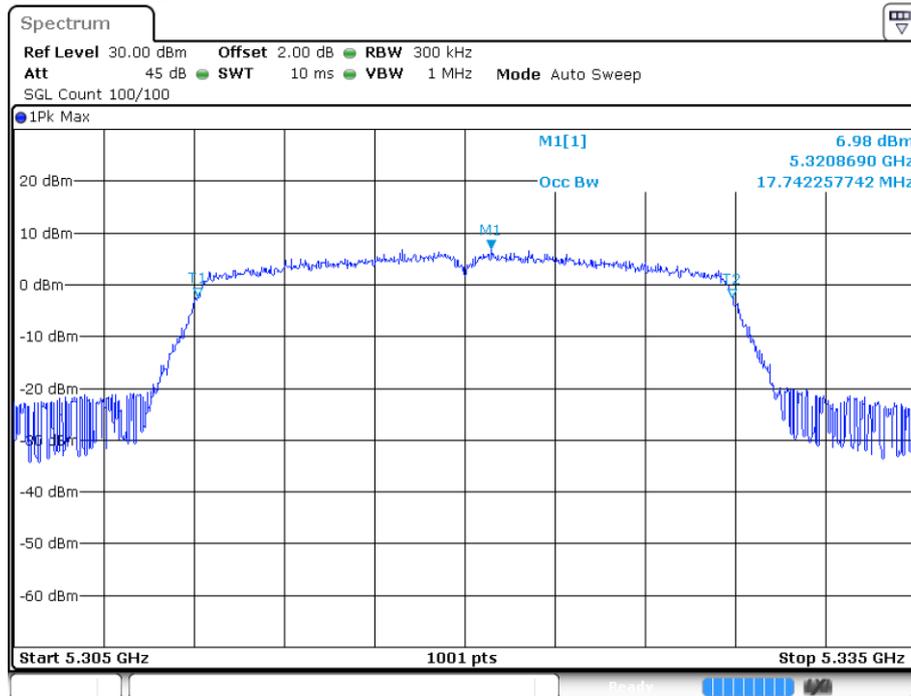
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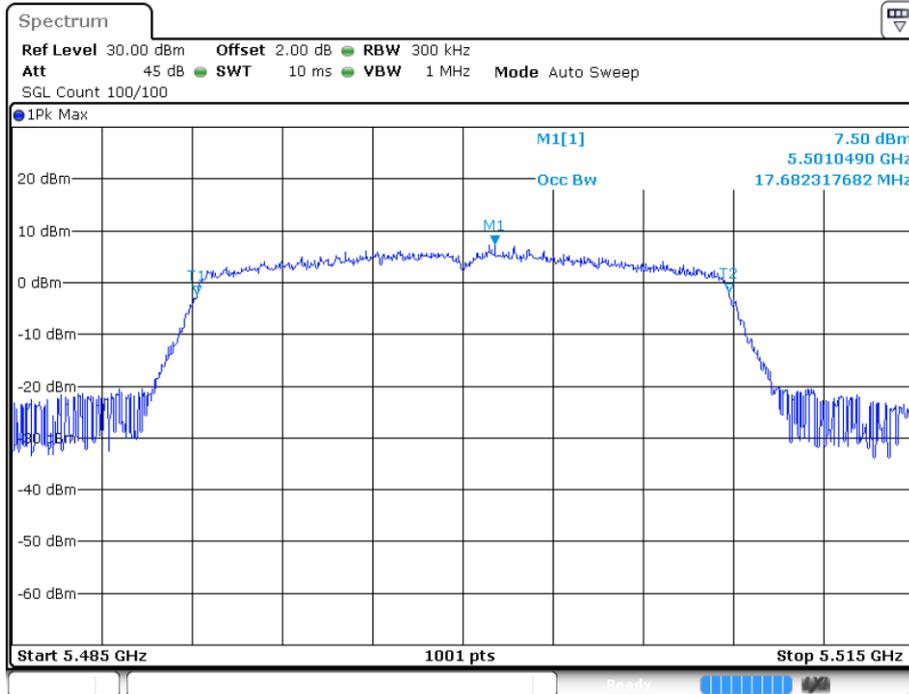
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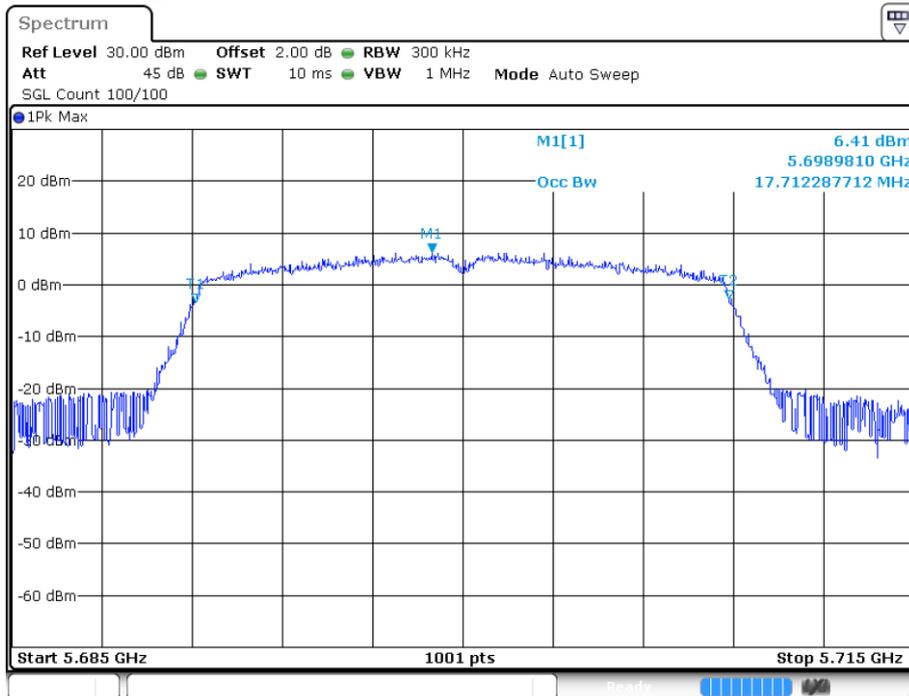


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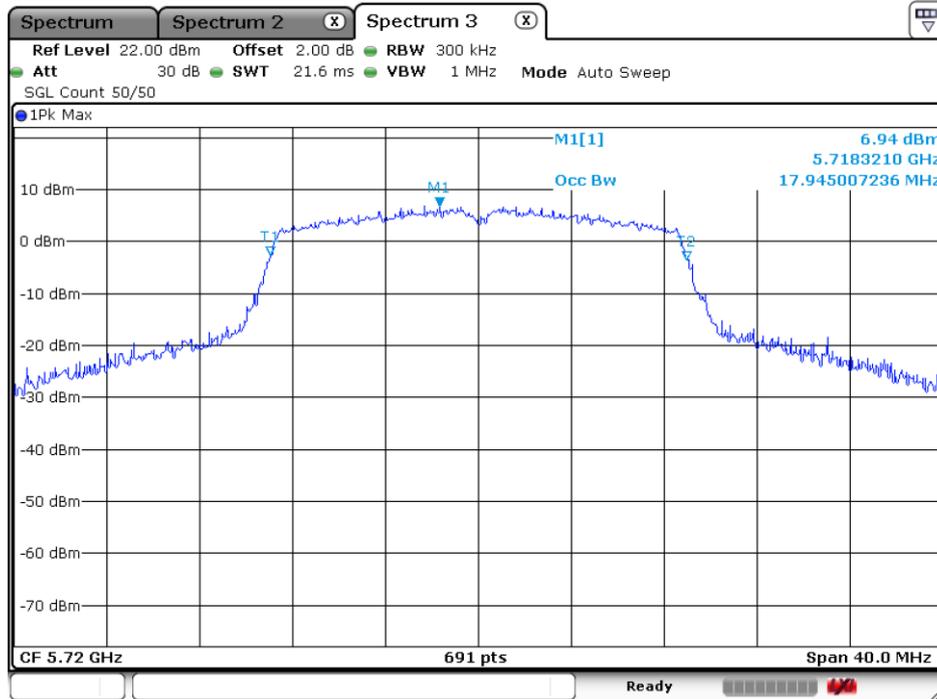
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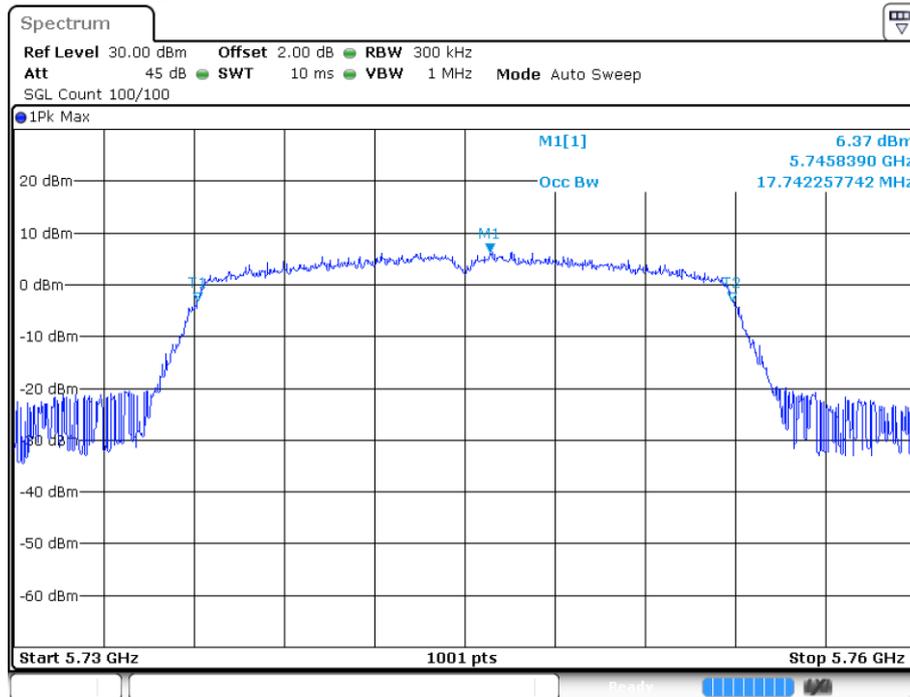


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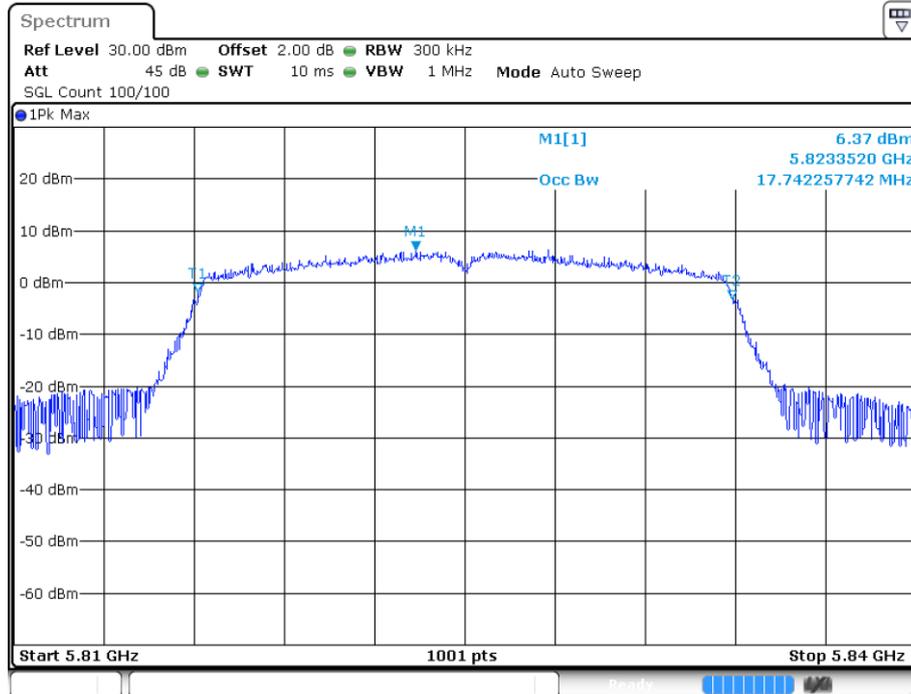
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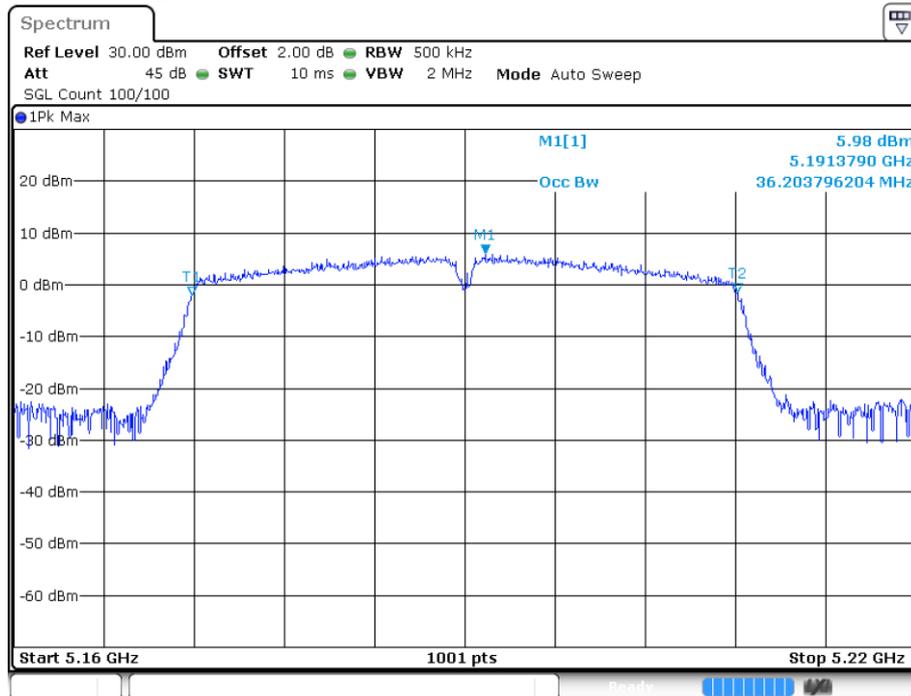


4.7.2.18 11N20_165 ANT 1



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4.7.2.19 11N40_38 ANT 1

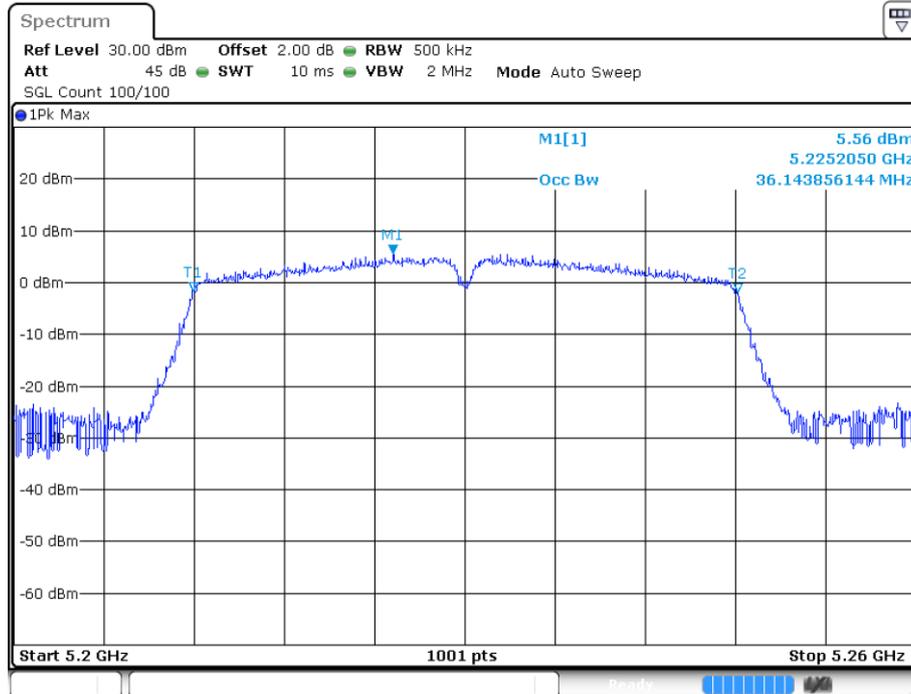


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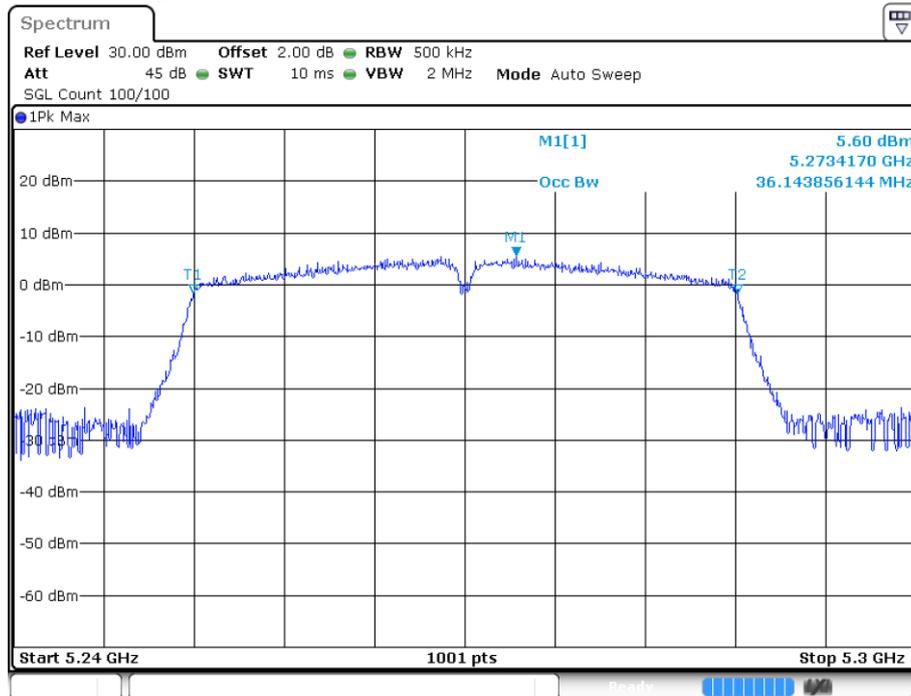
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4.7.2.21

11N40_54 ANT 1



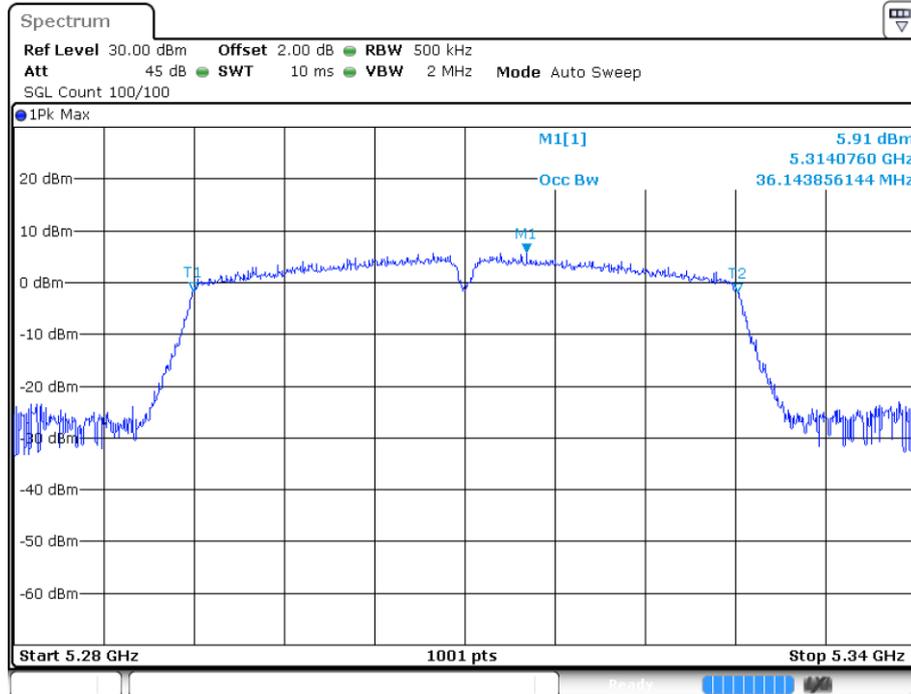
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4.7.2.22

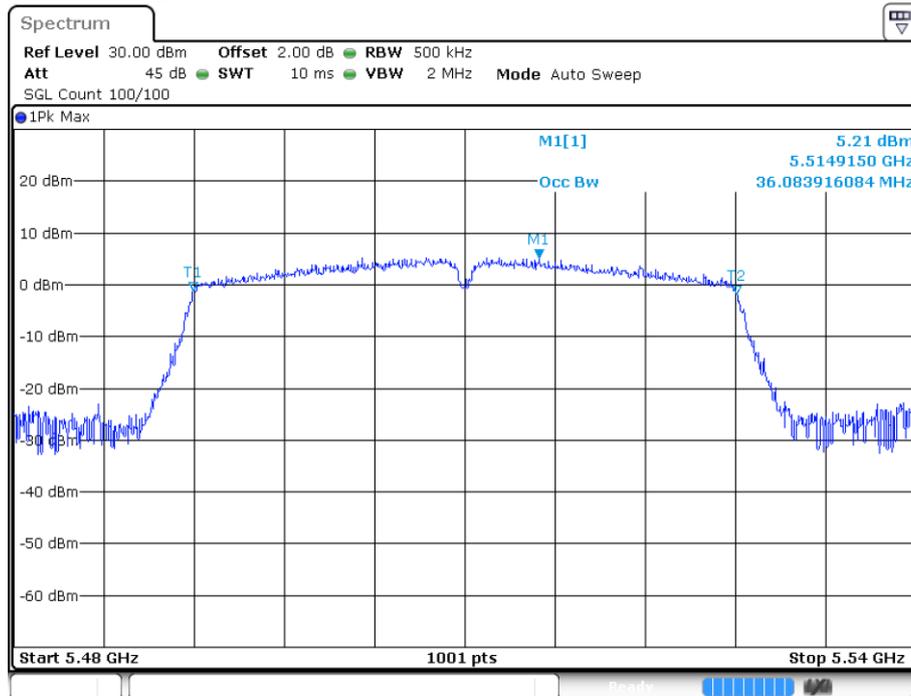
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4.7.2.23

11N40_102 ANT 1

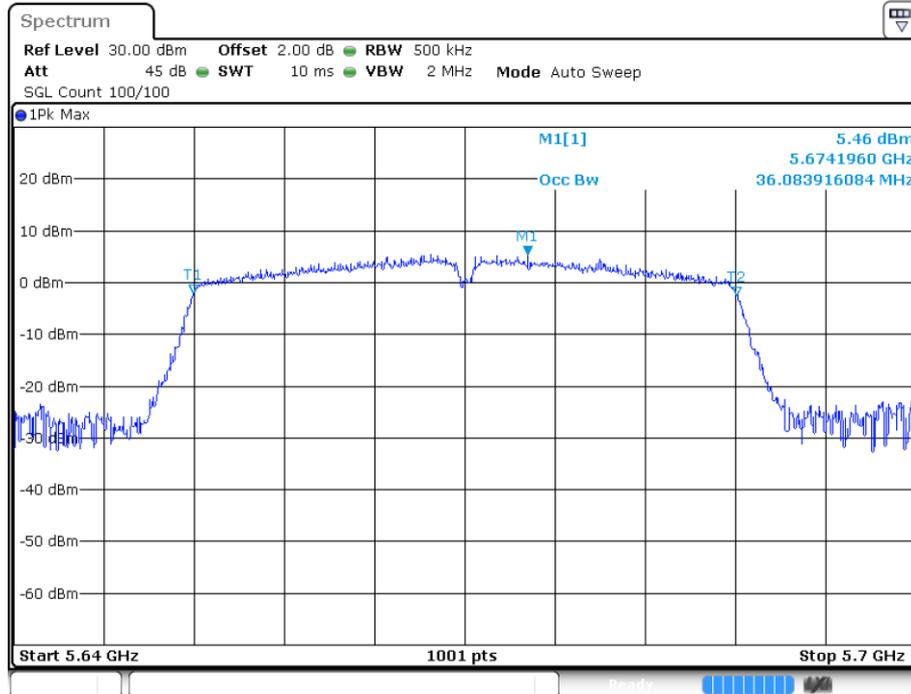


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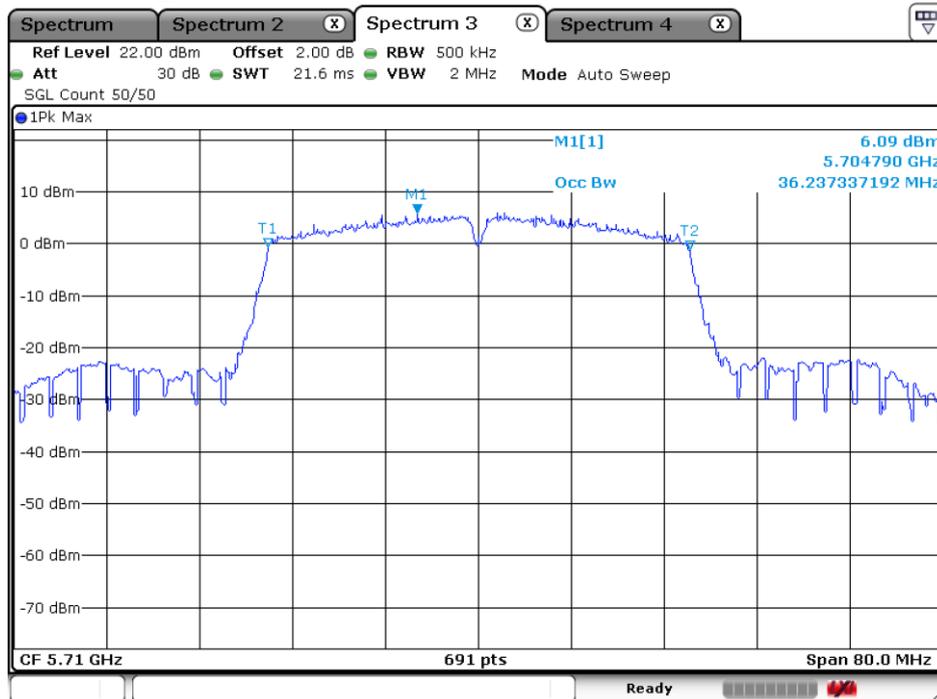
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4.7.2.24 11N40_134 ANT 1



Date: 2.NOV.2019 01:11:50

4.7.2.25 11N40_142 ANT 1

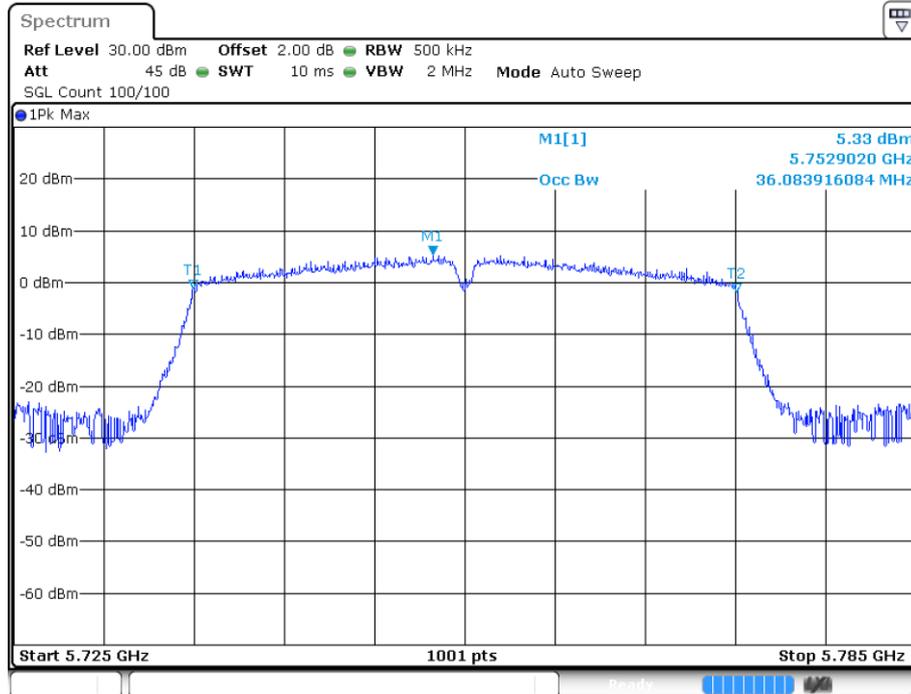


Date: 14.DEC.2019 06:08:21



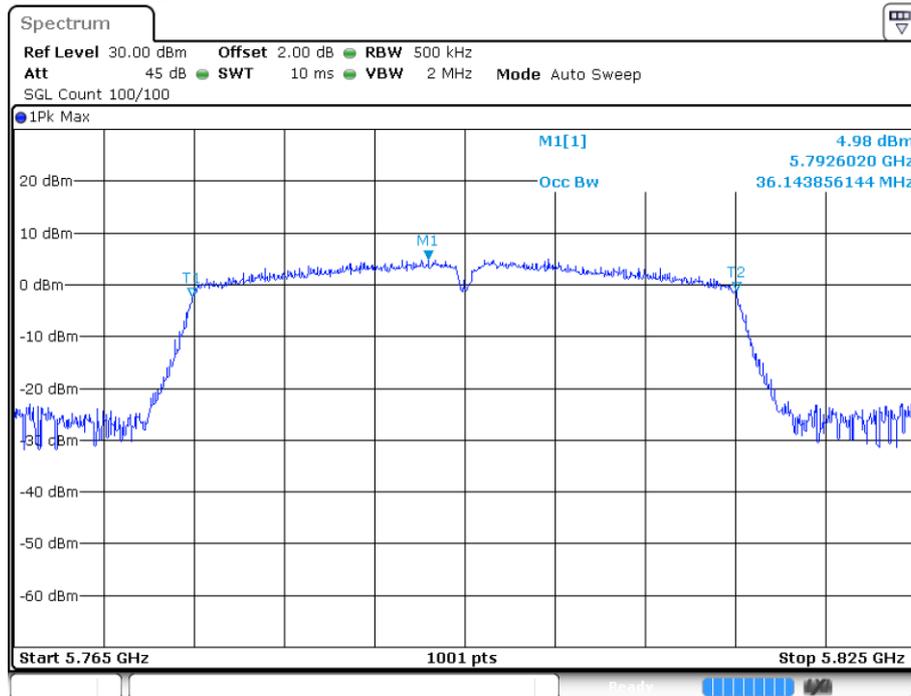
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4.7.2.26 11N40_151 ANT 1



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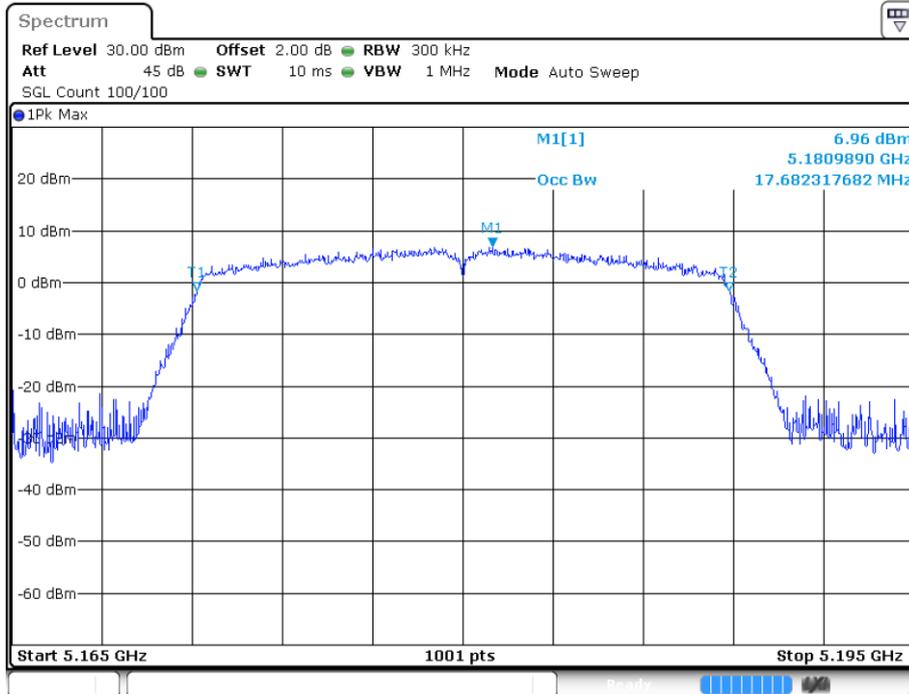
4.7.2.27 11N40_159 ANT 1



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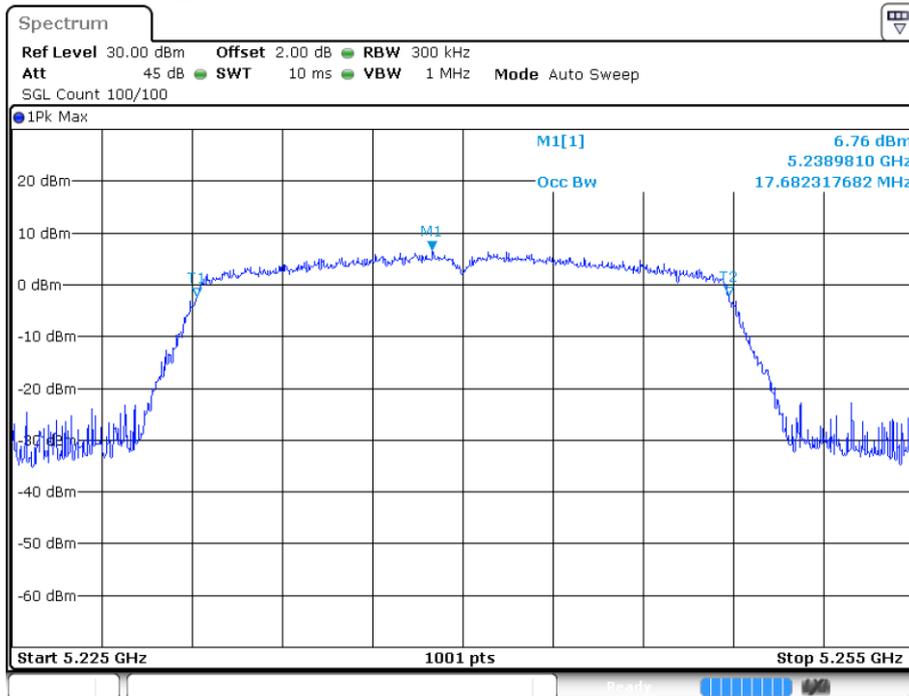


4.7.2.28 11AC20_36 ANT 1



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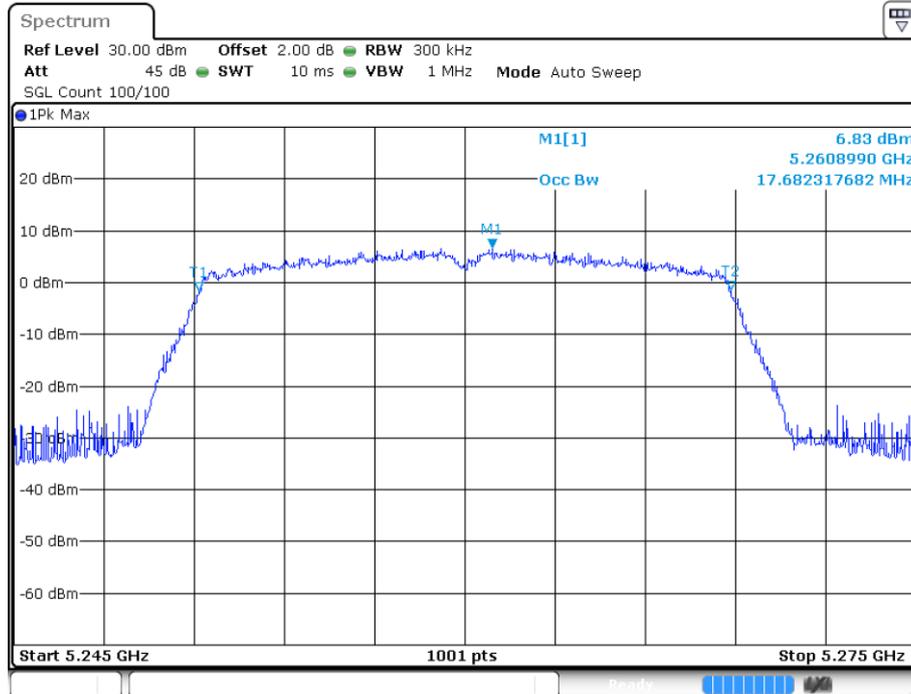
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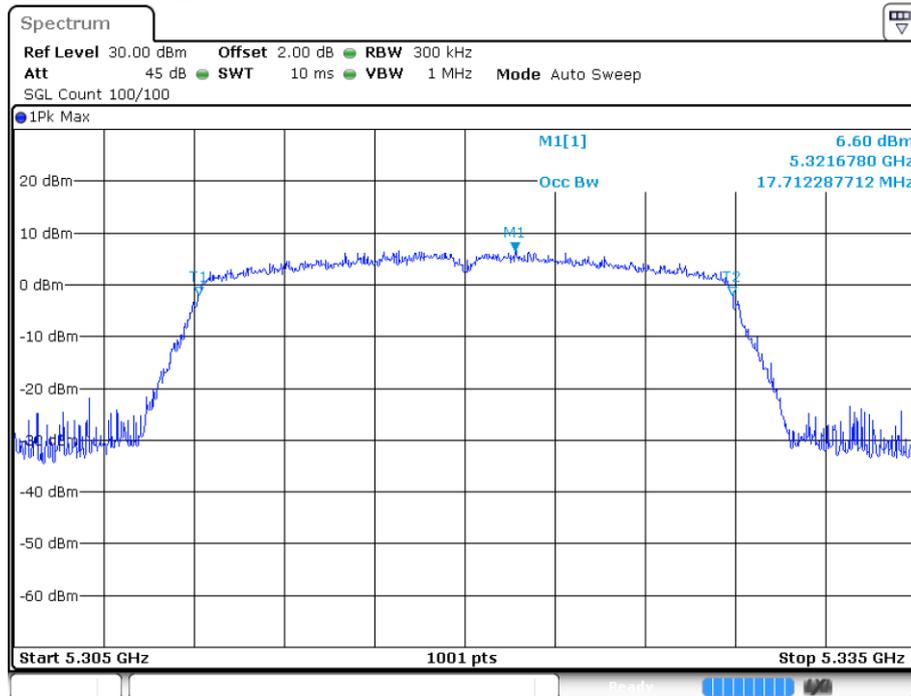


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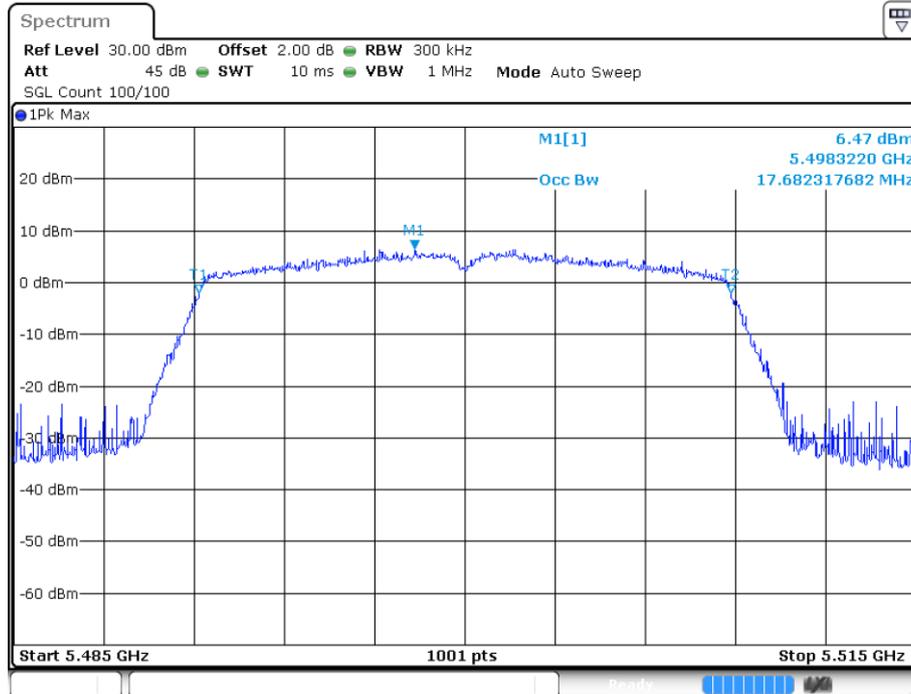
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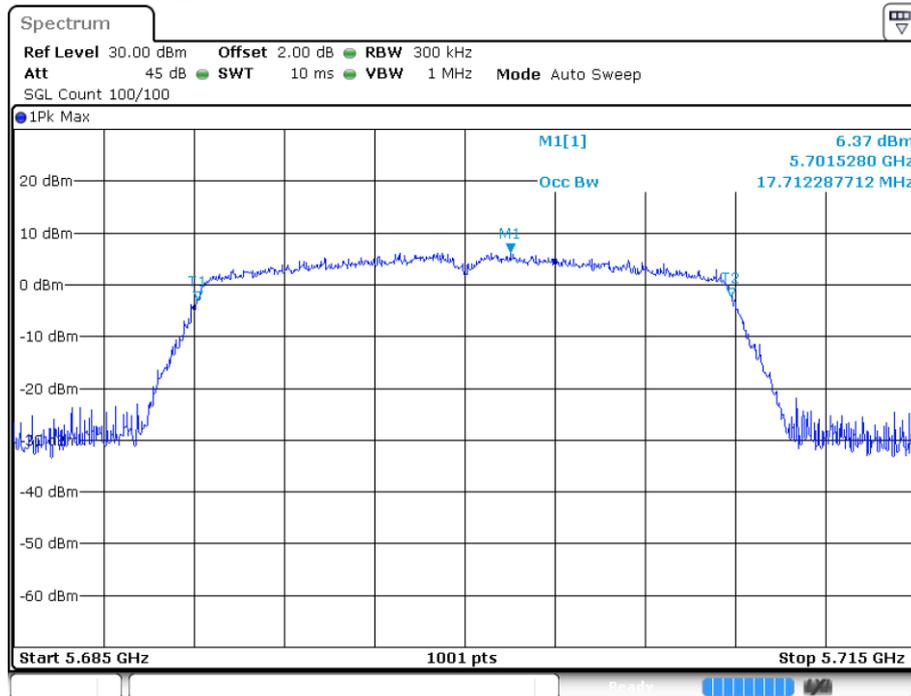


4.7.2.32 11AC20_100 ANT 1



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4.7.2.33 11AC20_140 ANT 1

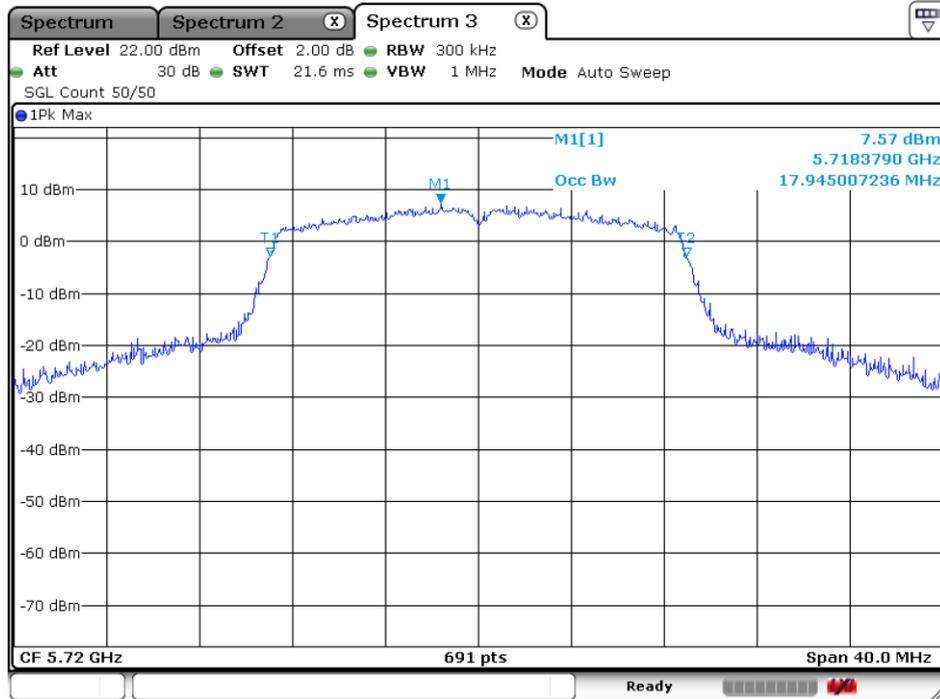


Date: 2.NOV.2019 00:57:24



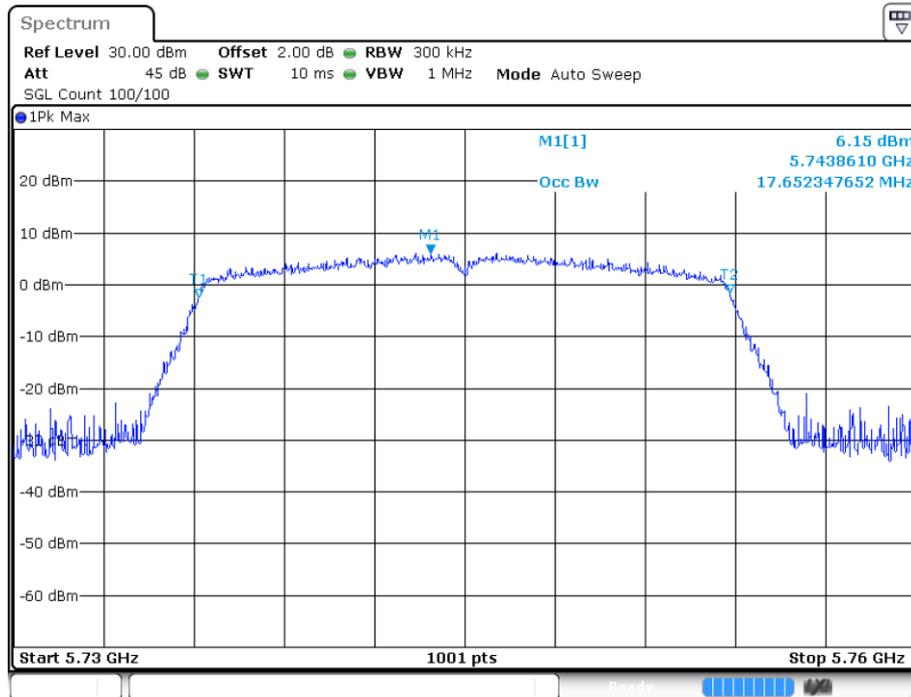
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4.7.2.34 11AC20_144 ANT 1



Date: 14.DEC.2019 03:47:58

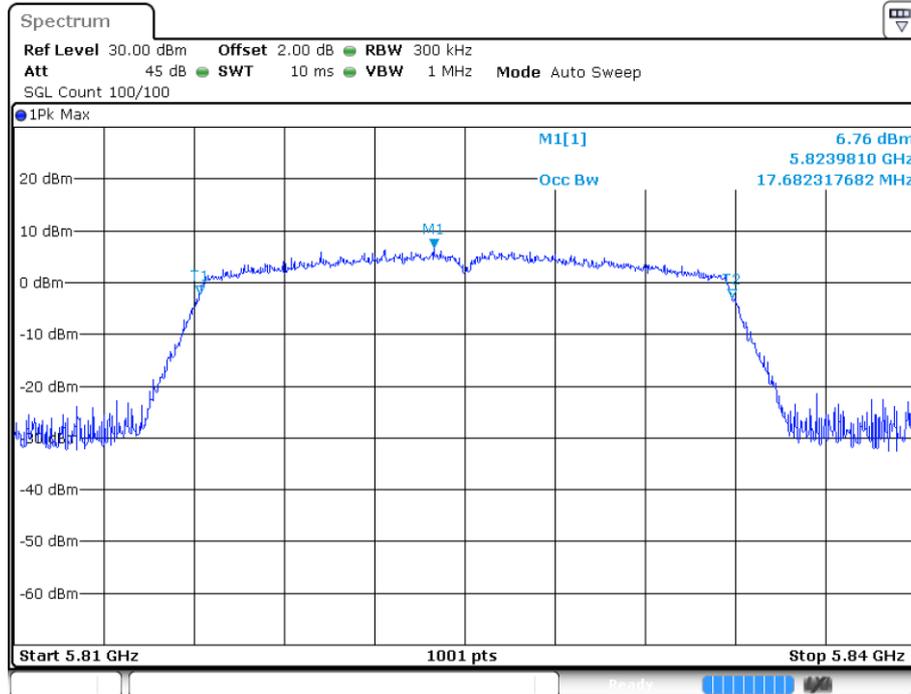
4.7.2.35 11AC20_149 ANT 1



Date: 2.NOV.2019 00:58:53

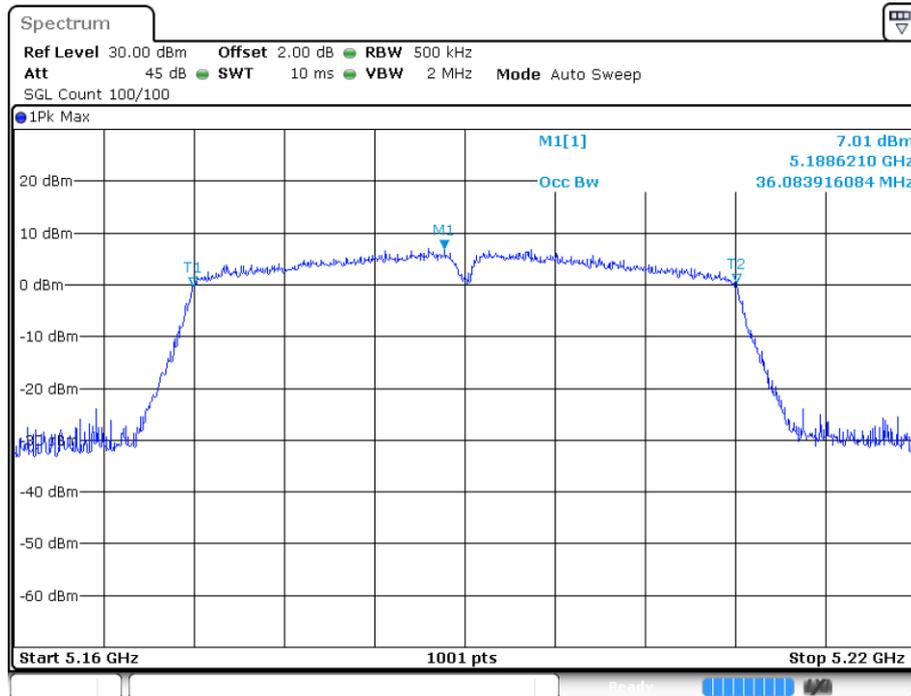


4.7.2.36 11AC20_165 ANT 1



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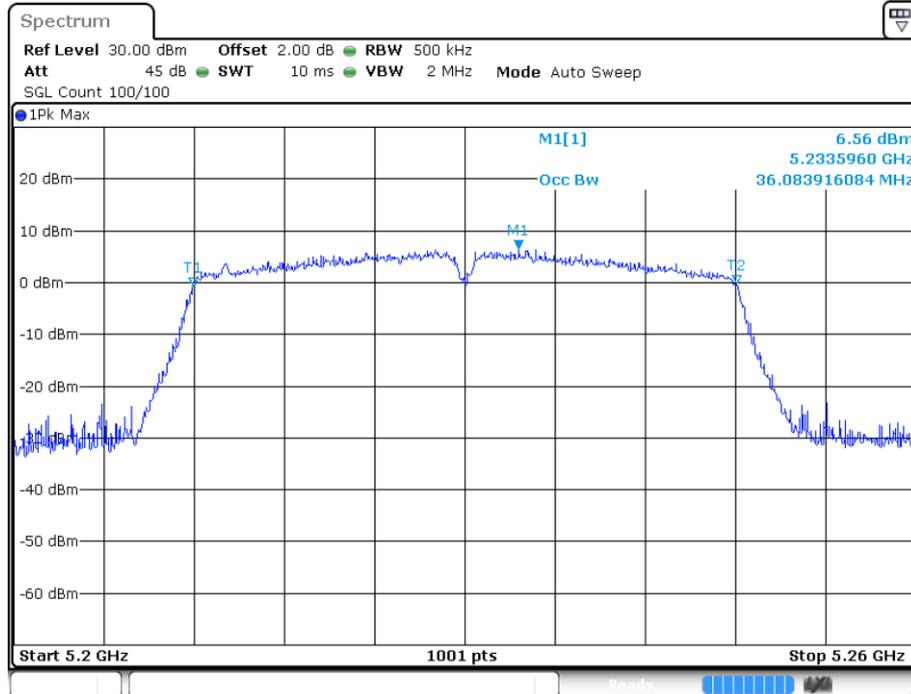
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Date: 2.NOV.2019 04:39:44

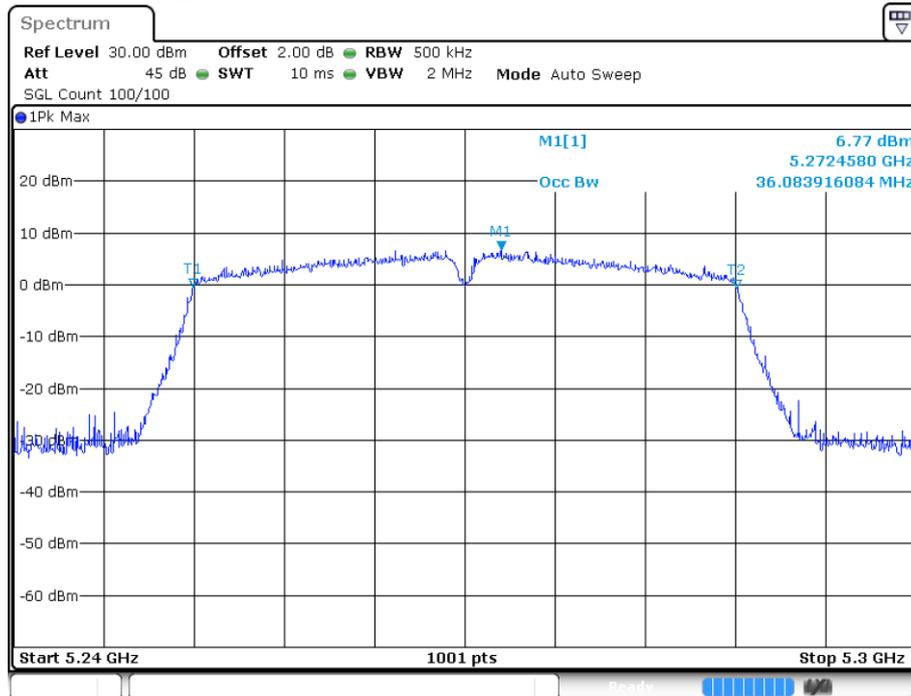


4.7.2.38 11AC40_46 ANT 1



Date: 2.NOV.2019 04:40:44

4.7.2.39 11AC40_54 ANT 1

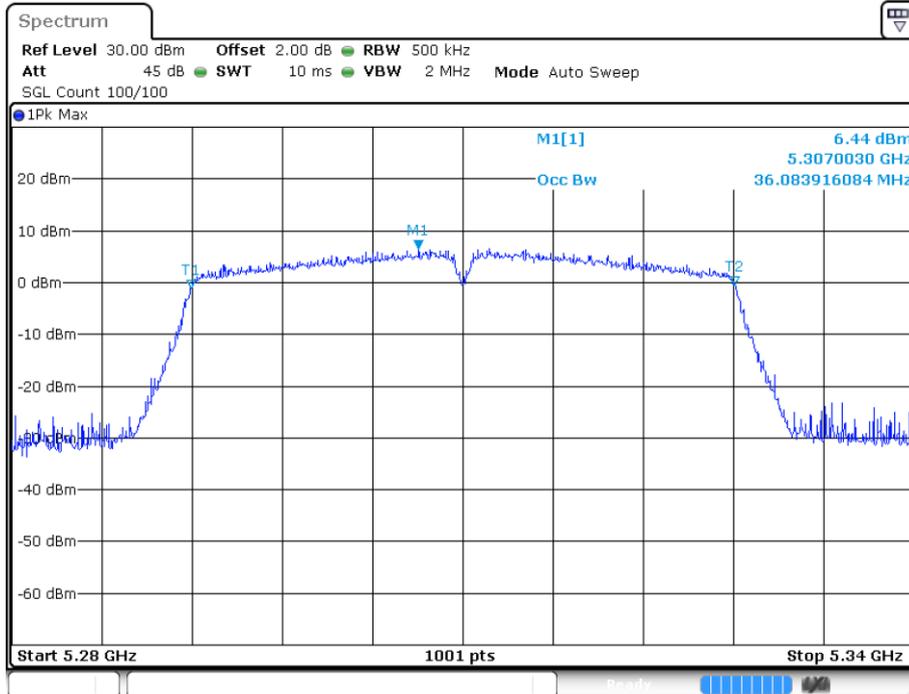


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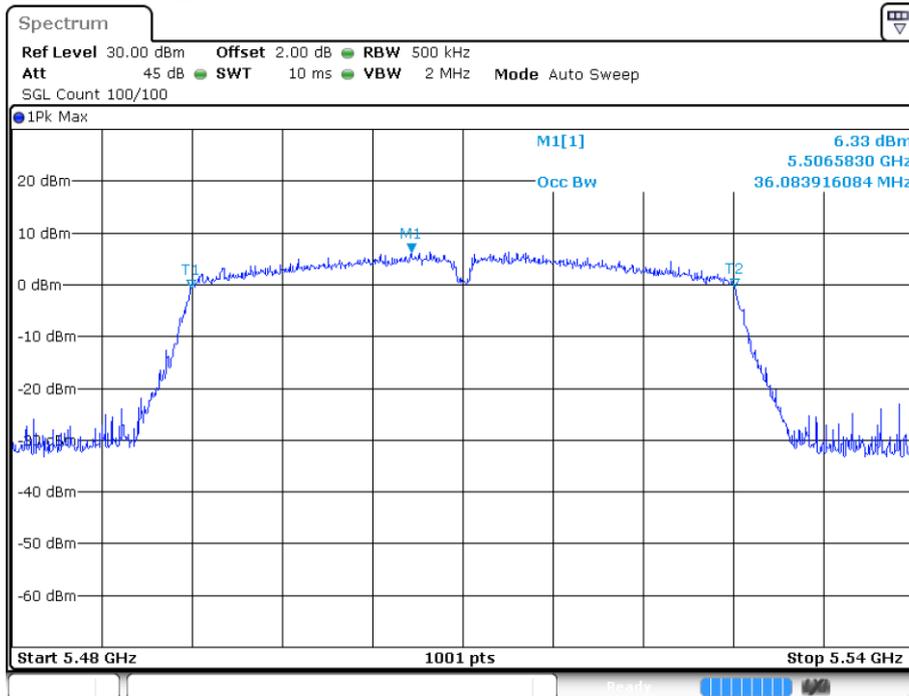
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4.7.2.40 11AC40_62 ANT 1



Date: 2.NOV.2019 04:42:47

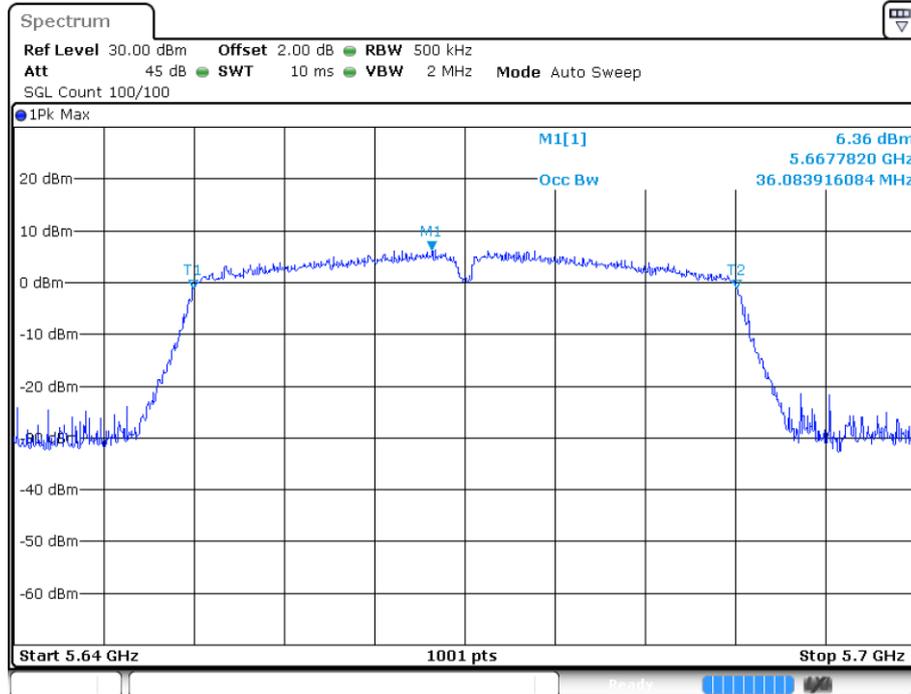
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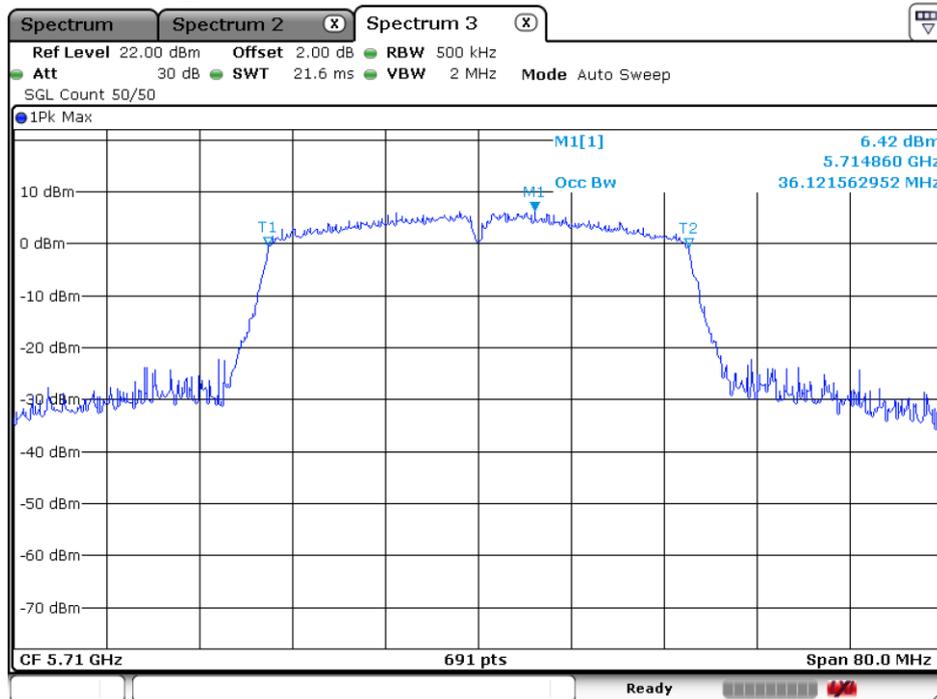


4.7.2.42 11AC40_134 ANT 1



Date: 2.NOV.2019 04:46:18

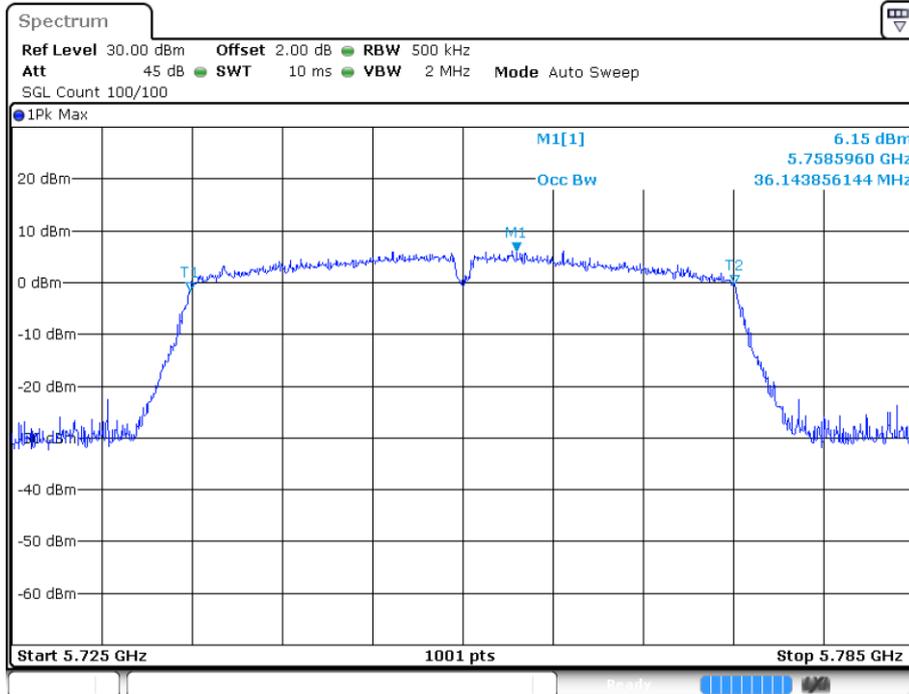
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Date: 14.DEC.2019 05:57:21

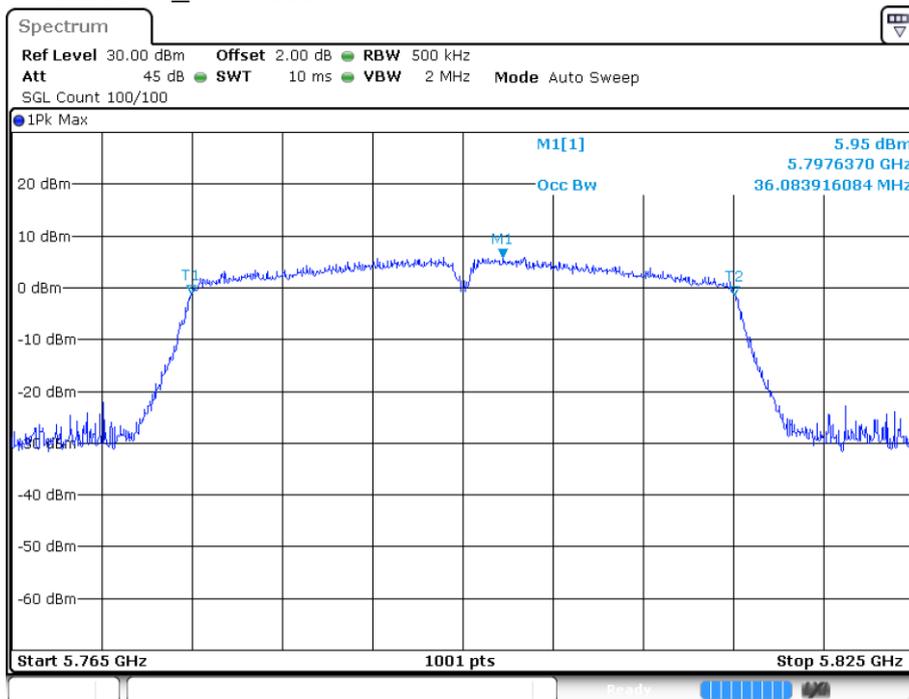


4.7.2.44 11AC40_151 ANT 1



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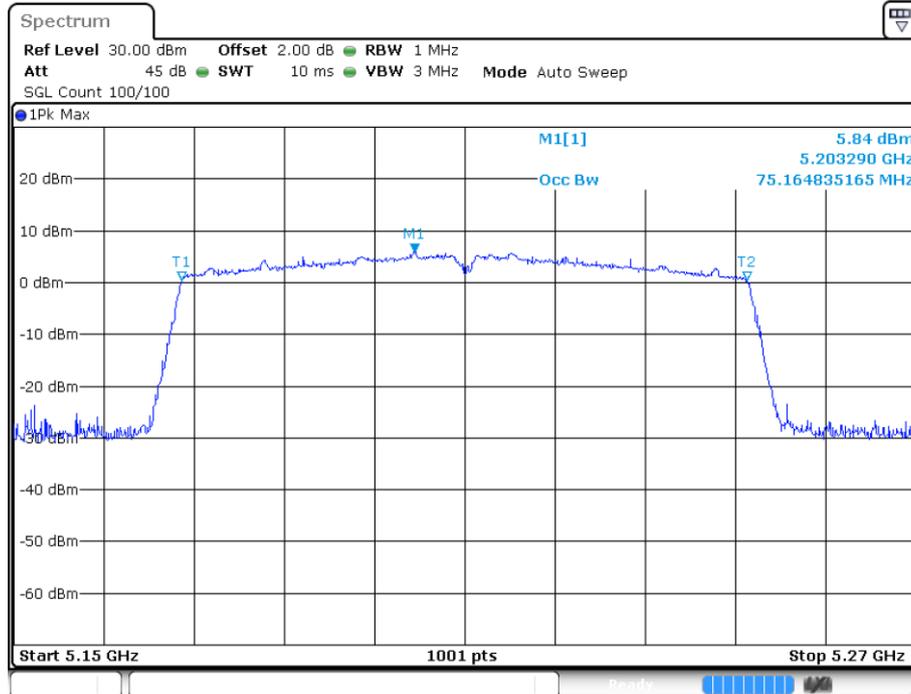
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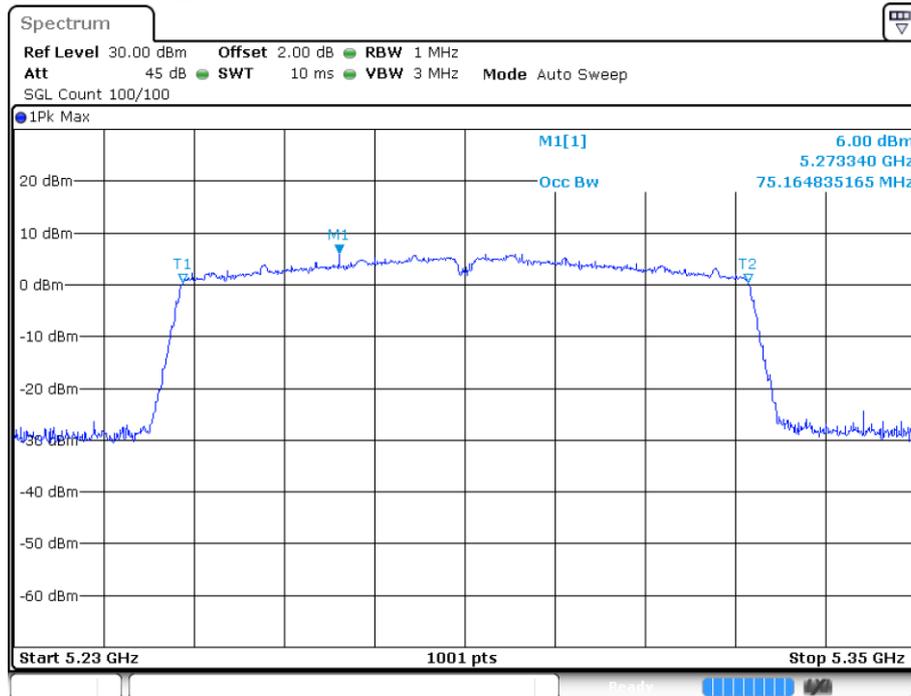


4.7.2.46 11AC80_42 ANT 1



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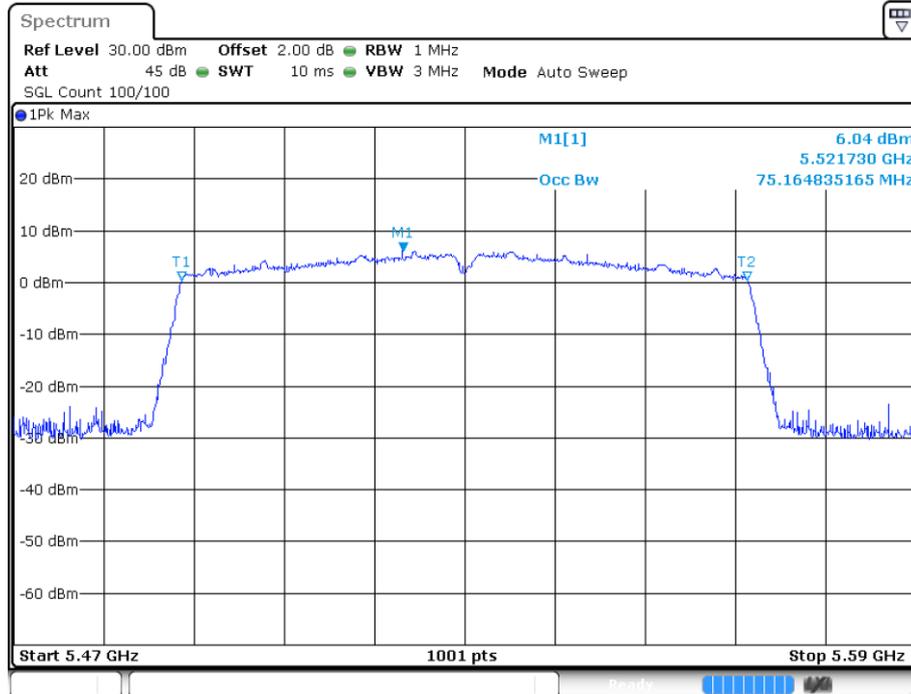
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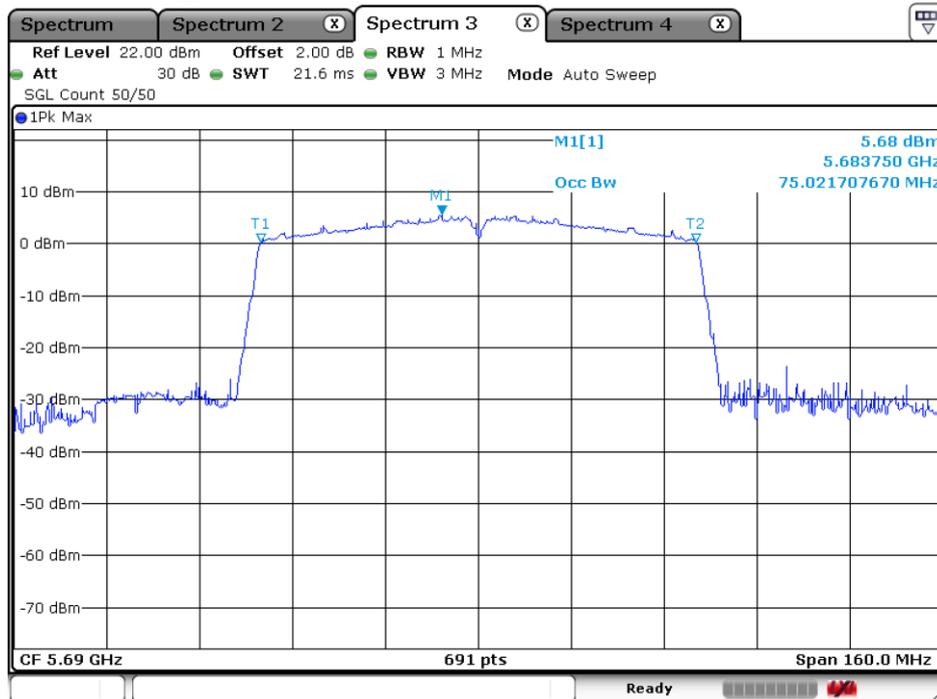


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4.7.2.49 11AC80_138 ANT 1

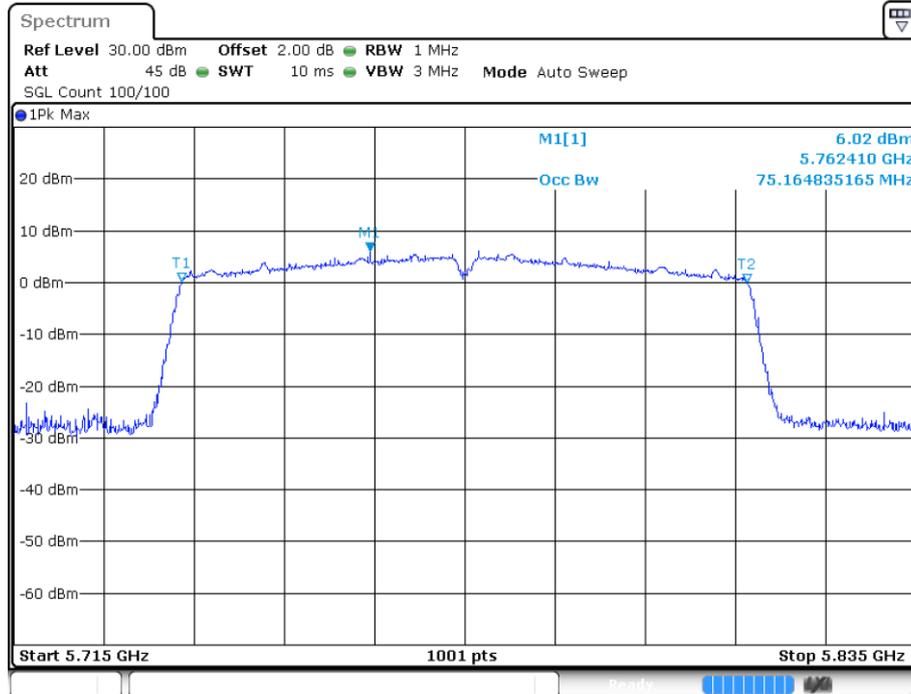


Date: 14.DEC.2019 06:12:21



4.7.2.50

11AC80_155 ANT 1



Date: 2.NOV.2019 04:59:52



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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20);</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT20);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT80).</p> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	





4.8.1 Test Results For Power Density

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.)	Unit	Verdict
11A20	36	5180	ANT 1	6.54	dBm/MHz	PASS
	48	5240	ANT 1	6.31	dBm/MHz	PASS
	52	5260	ANT 1	6.43	dBm/MHz	PASS
	64	5320	ANT 1	6.09	dBm/MHz	PASS
	100	5500	ANT 1	6.36	dBm/MHz	PASS
	140	5700	ANT 1	5.64	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	5.29	dBm/MHz	PASS
	144(BandIII)	5720	ANT 1	0.29	dBm/500KHz	PASS
	149	5745	ANT 1	4.26	dBm/500KHz	PASS
	165	5825	ANT 1	4.16	dBm/500KHz	PASS
11N20	36	5180	ANT 1	6.32	dBm/MHz	PASS
	48	5240	ANT 1	6.04	dBm/MHz	PASS
	52	5260	ANT 1	5.52	dBm/MHz	PASS
	64	5320	ANT 1	6.17	dBm/MHz	PASS
	100	5500	ANT 1	5.48	dBm/MHz	PASS
	140	5700	ANT 1	5.54	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	4.89	dBm/MHz	PASS
	144(BandIII)	5720	ANT 1	0.53	dBm/500KHz	PASS
	149	5745	ANT 1	4.28	dBm/500KHz	PASS
	165	5825	ANT 1	4.21	dBm/500KHz	PASS
11N40	38	5190	ANT 1	3	dBm/MHz	PASS
	46	5230	ANT 1	2.36	dBm/MHz	PASS
	54	5270	ANT 1	2.17	dBm/MHz	PASS
	62	5310	ANT 1	2.44	dBm/MHz	PASS
	102	5510	ANT 1	2.32	dBm/MHz	PASS
	134	5670	ANT 1	2.25	dBm/MHz	PASS
	144(BandII-C)	5710	ANT 1	1.62	dBm/MHz	PASS
	144(BandIII)	5710	ANT 1	-4.62	dBm/500KHz	PASS
	151	5755	ANT 1	1.14	dBm/500KHz	PASS
	159	5795	ANT 1	0.63	dBm/500KHz	PASS
11AC20	36	5180	ANT 1	6.23	dBm/MHz	PASS
	48	5240	ANT 1	5.78	dBm/MHz	PASS
	52	5260	ANT 1	5.69	dBm/MHz	PASS
	64	5320	ANT 1	6.16	dBm/MHz	PASS
	100	5500	ANT 1	5.85	dBm/MHz	PASS
	140	5700	ANT 1	5.43	dBm/MHz	PASS
	142(BandII-C)	5720	ANT 1	4.88	dBm/MHz	PASS
	142(BandIII)	5720	ANT 1	0.56	dBm/500KHz	PASS
	149	5745	ANT 1	4.12	dBm/500KHz	PASS
	165	5825	ANT 1	4.14	dBm/500KHz	PASS
11AC40	38	5190	ANT 1	3.58	dBm/MHz	PASS
	46	5230	ANT 1	3.28	dBm/MHz	PASS



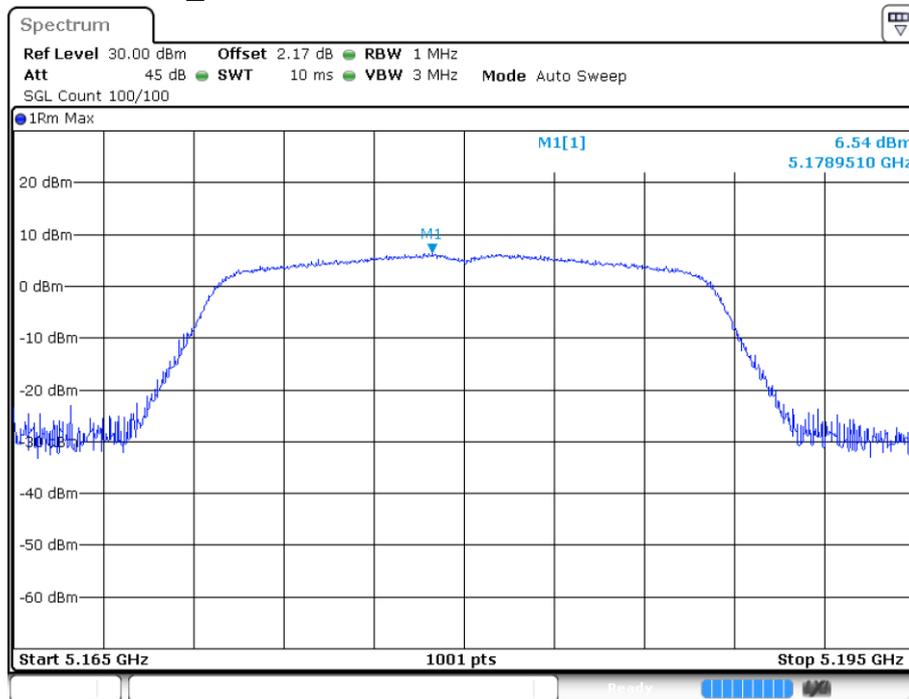
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	54	5270	ANT 1	3.41	dBm/MHz	PASS
	62	5310	ANT 1	3.47	dBm/MHz	PASS
	102	5510	ANT 1	3.44	dBm/MHz	PASS
	134	5670	ANT 1	3.11	dBm/MHz	PASS
	142(BandII-C)	5710	ANT 1	4.88	dBm/MHz	PASS
	142(BandIII)	5710	ANT 1	0.56	dBm/500KHz	PASS
	151	5755	ANT 1	1.75	dBm/500KHz	PASS
	159	5795	ANT 1	1.61	dBm/500KHz	PASS
11AC80	42	5210	ANT 1	-0.34	dBm/MHz	PASS
	58	5290	ANT 1	-0.68	dBm/MHz	PASS
	106	5530	ANT 1	-0.3	dBm/MHz	PASS
	138(BandII-C)	5690	ANT 1	-2.75	dBm/MHz	PASS
	138(BandIII)	5690	ANT 1	-9.22	dBm/500KHz	PASS
	155	5775	ANT 1	-2.14	dBm/500KHz	PASS

4.8.2 Test plots For Power Density

4.8.2.1 11A20_36 ANT 1



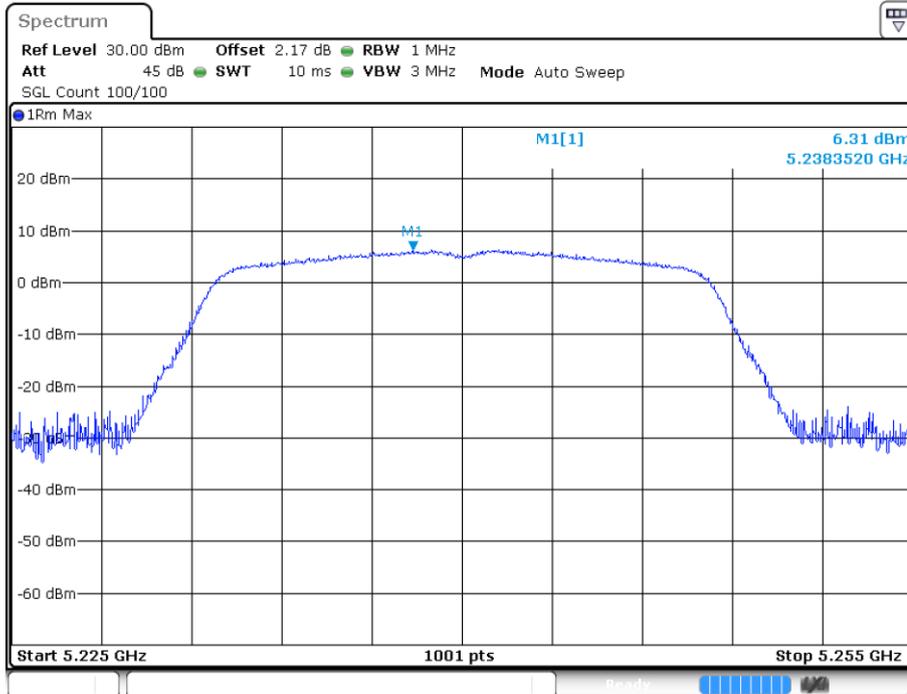
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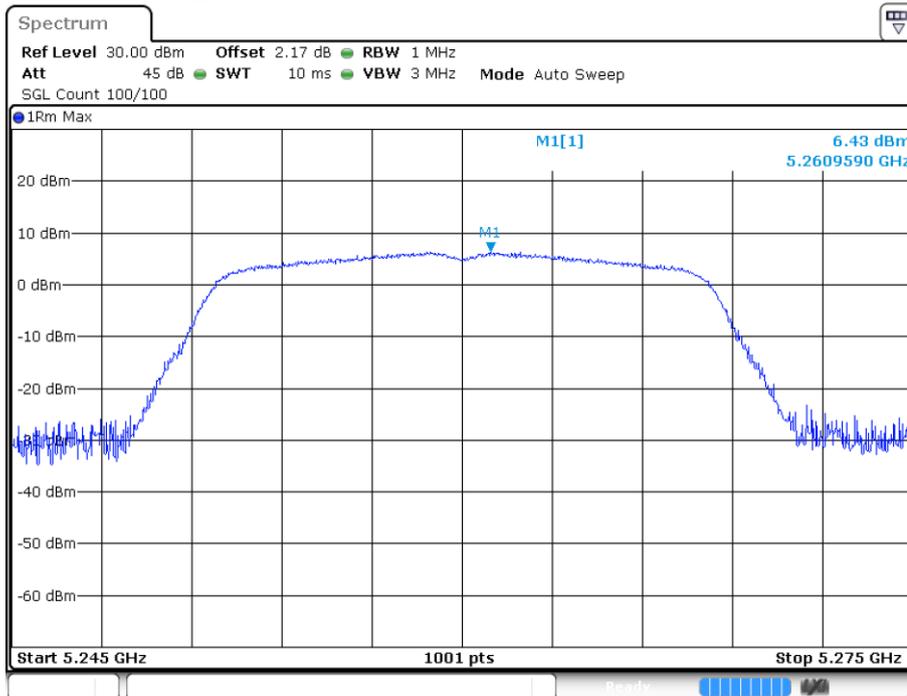
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4.8.2.2 11A20_48 ANT 1



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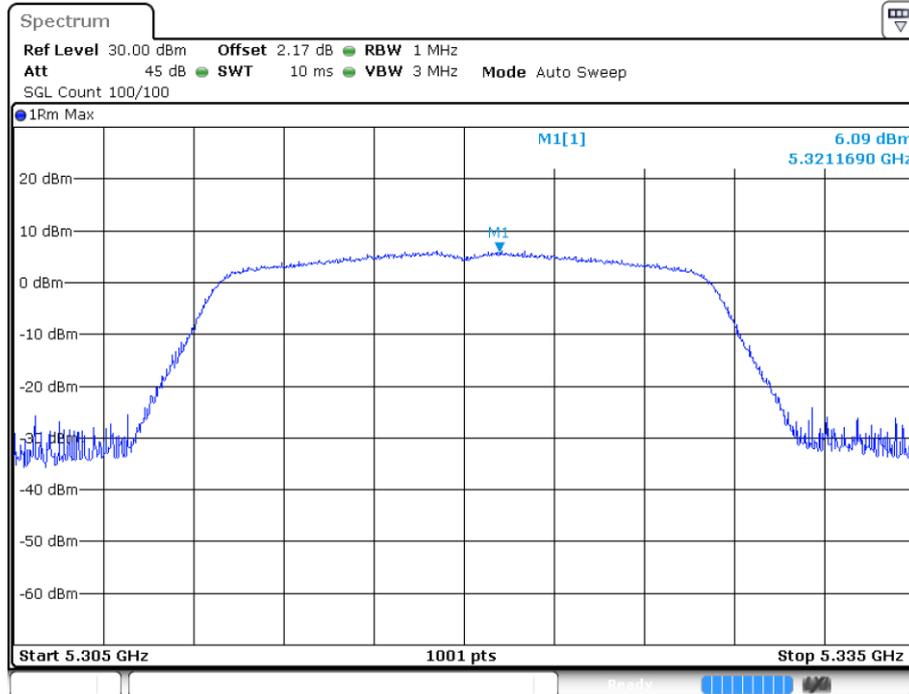
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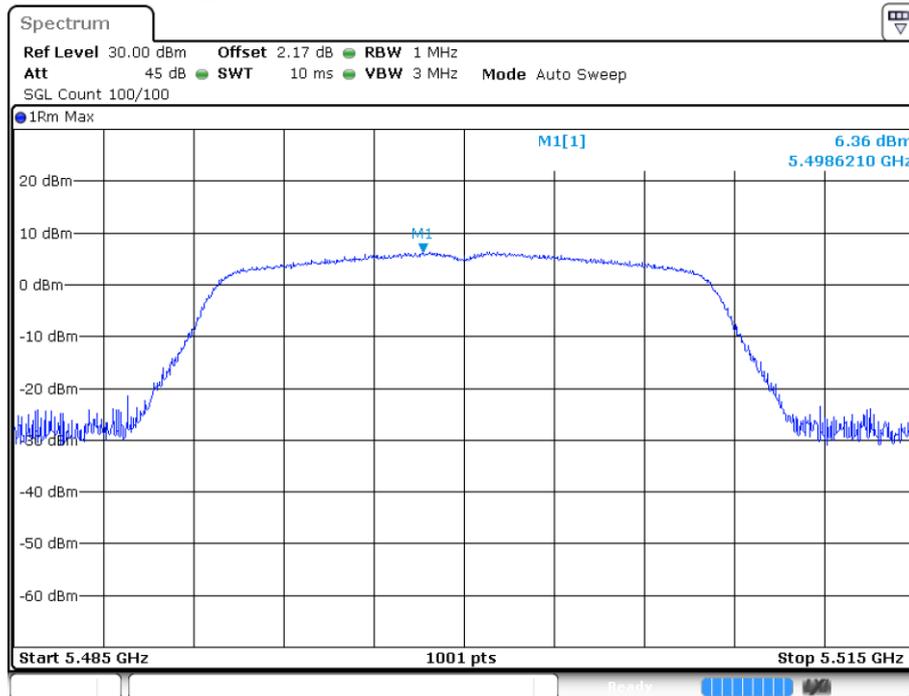


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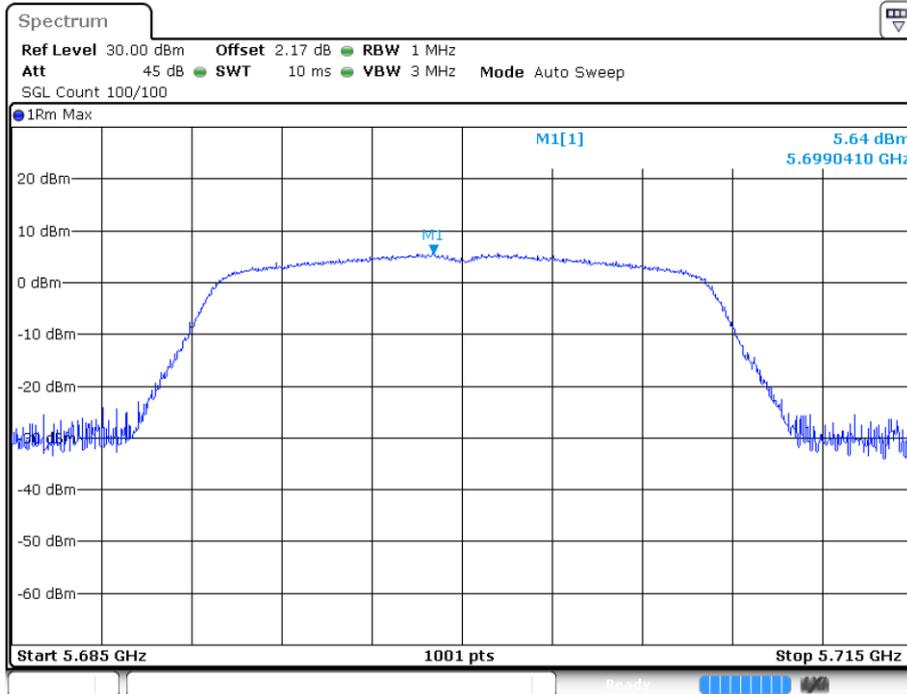
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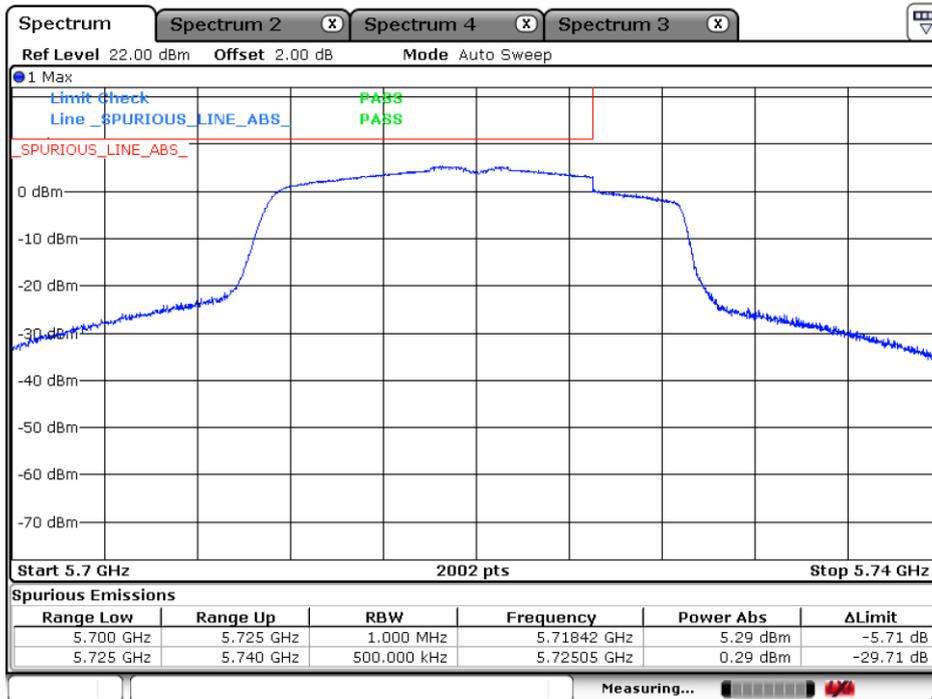


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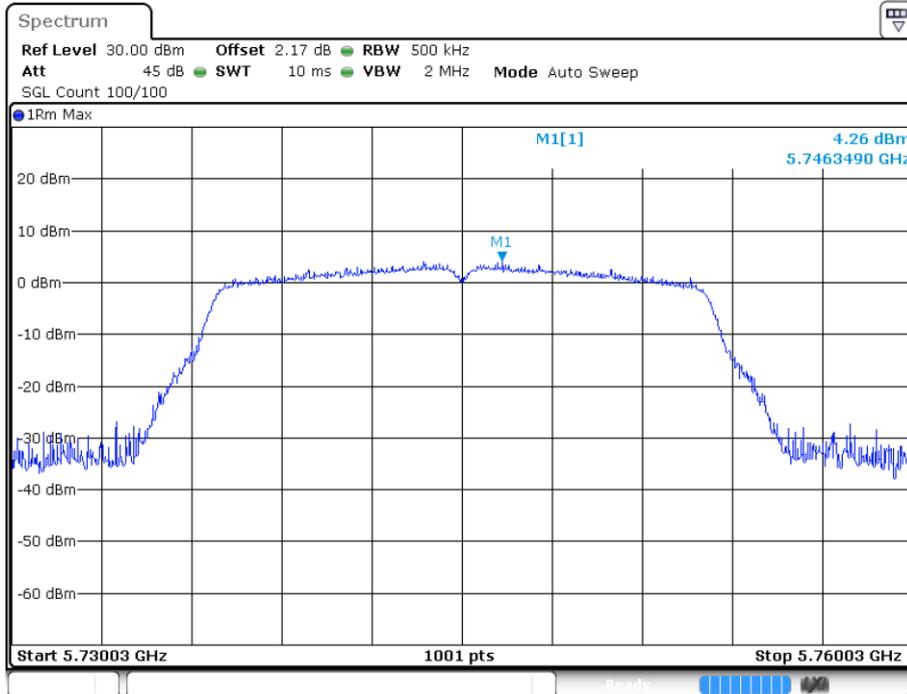
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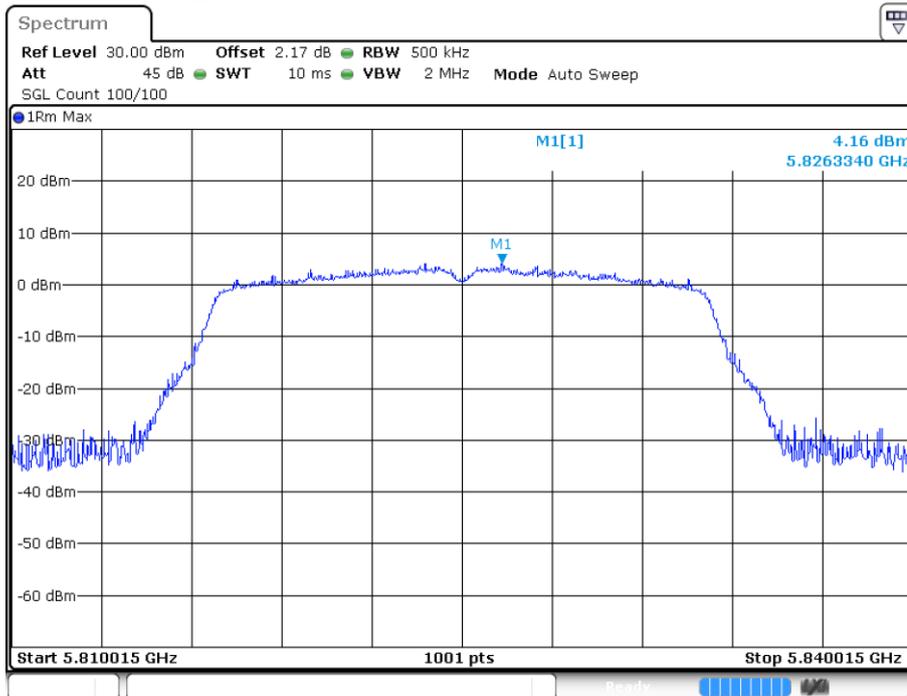


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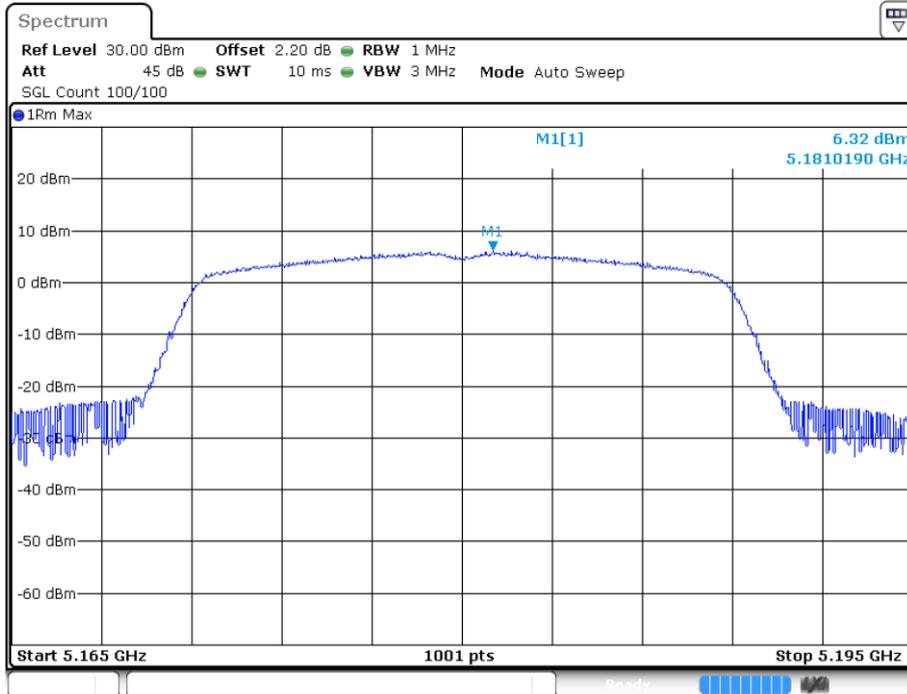


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4.8.2.10

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4.8.2.11

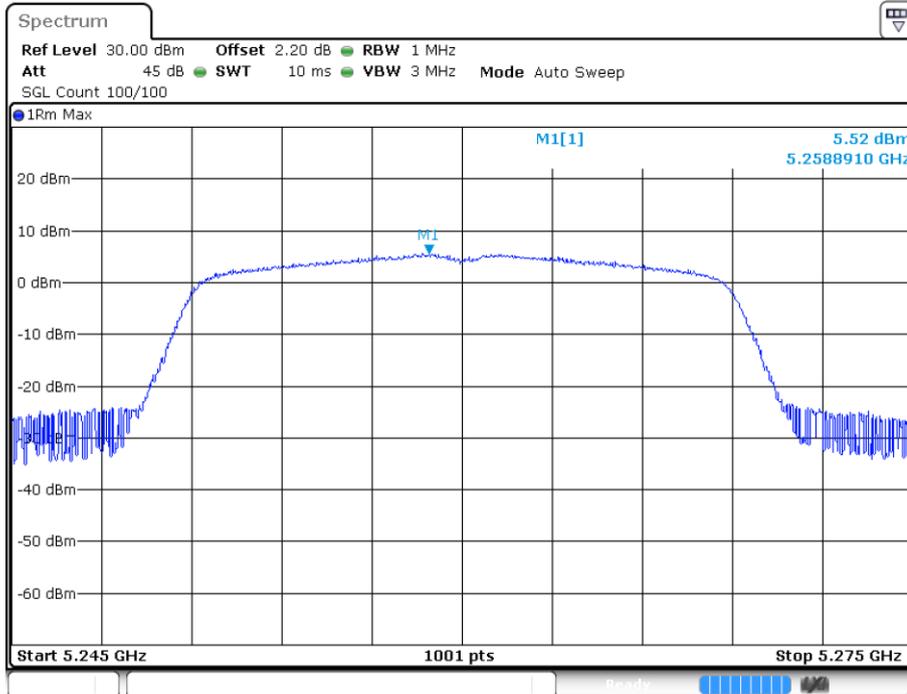
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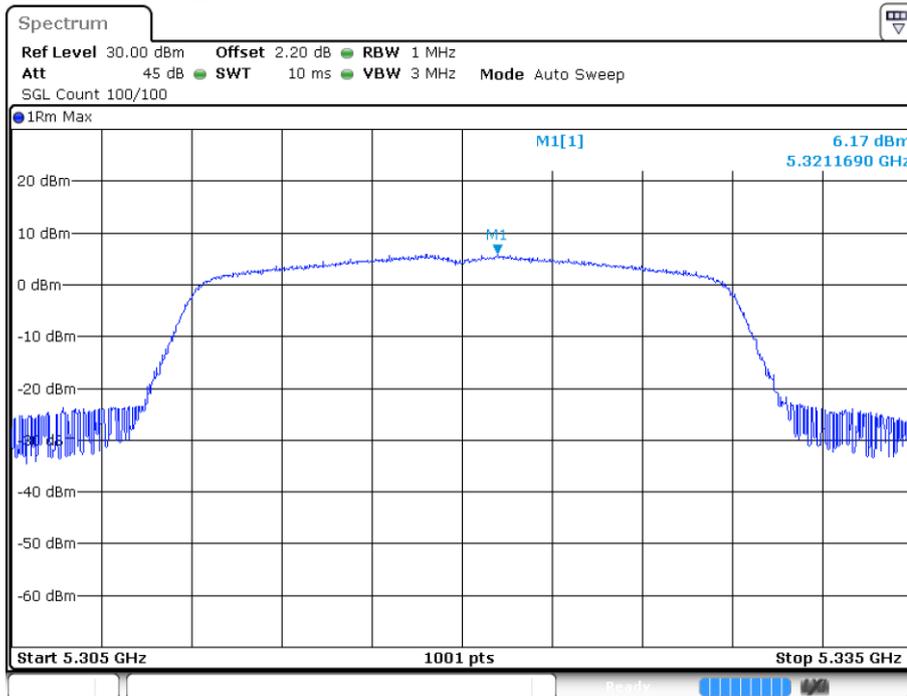


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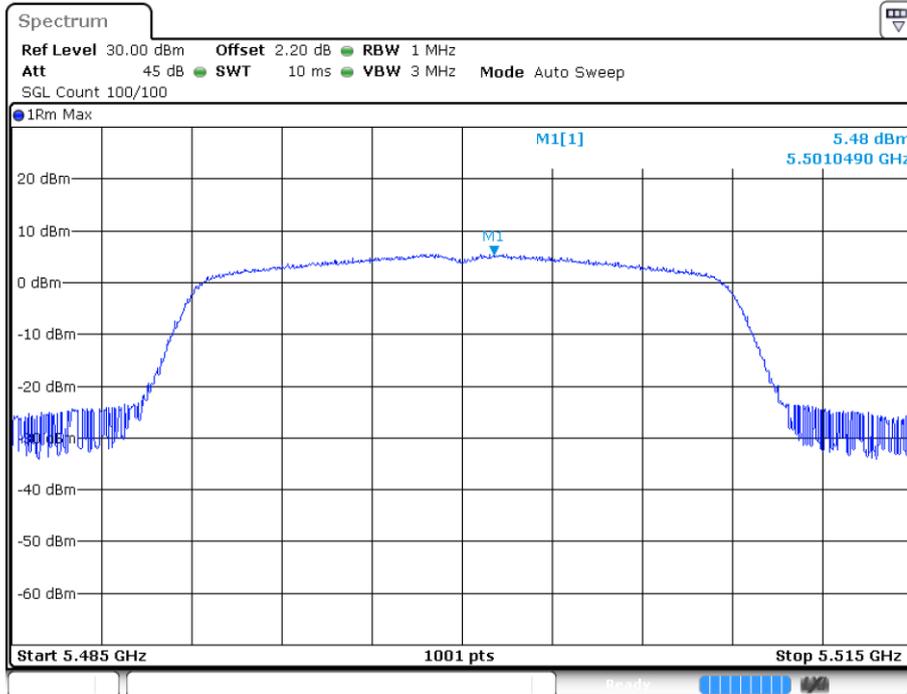
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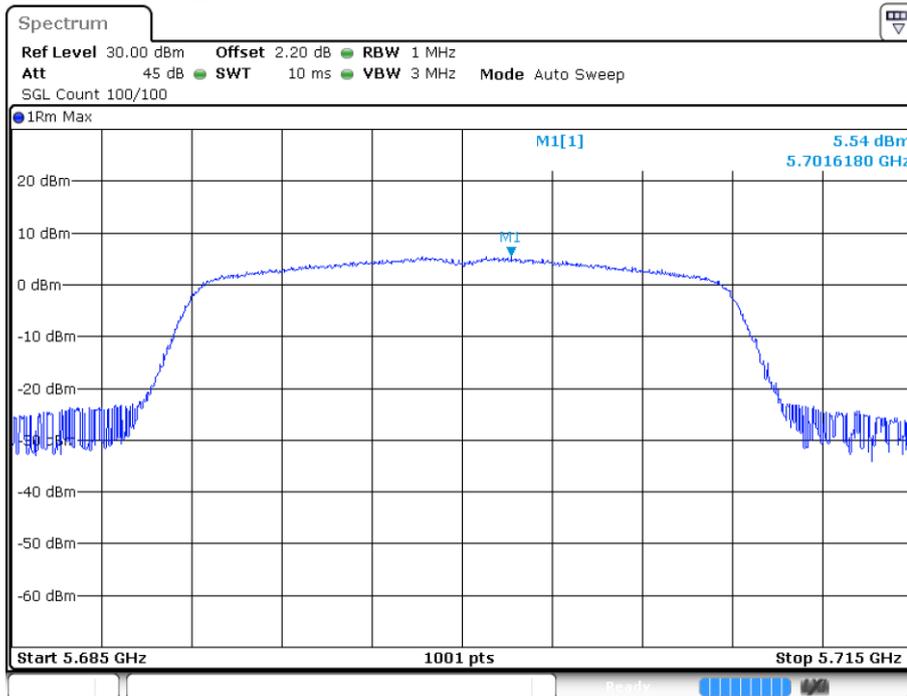
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4.8.2.14 11N20_100 ANT 1



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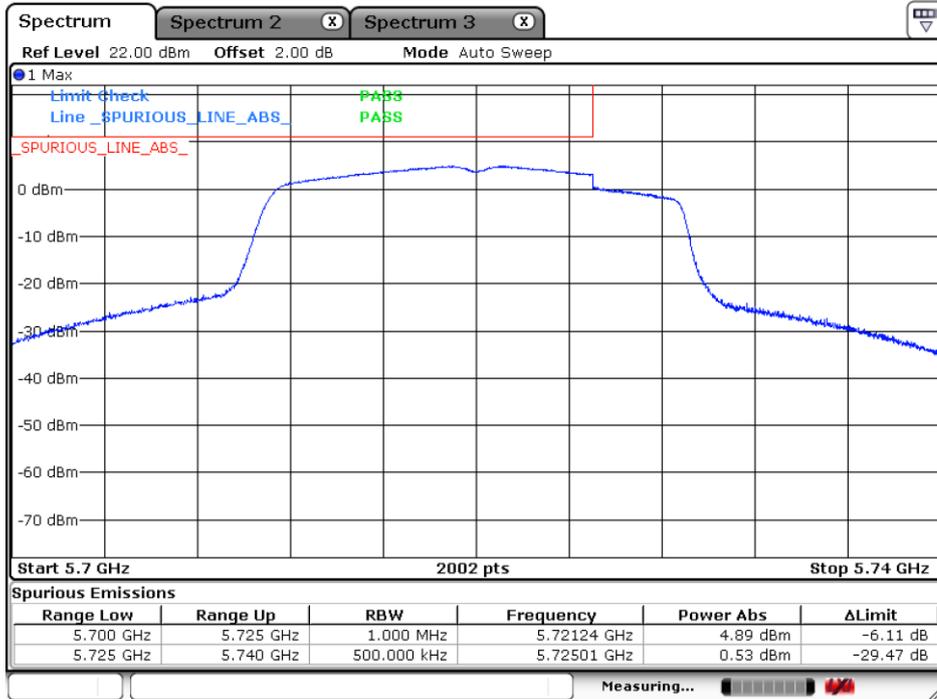
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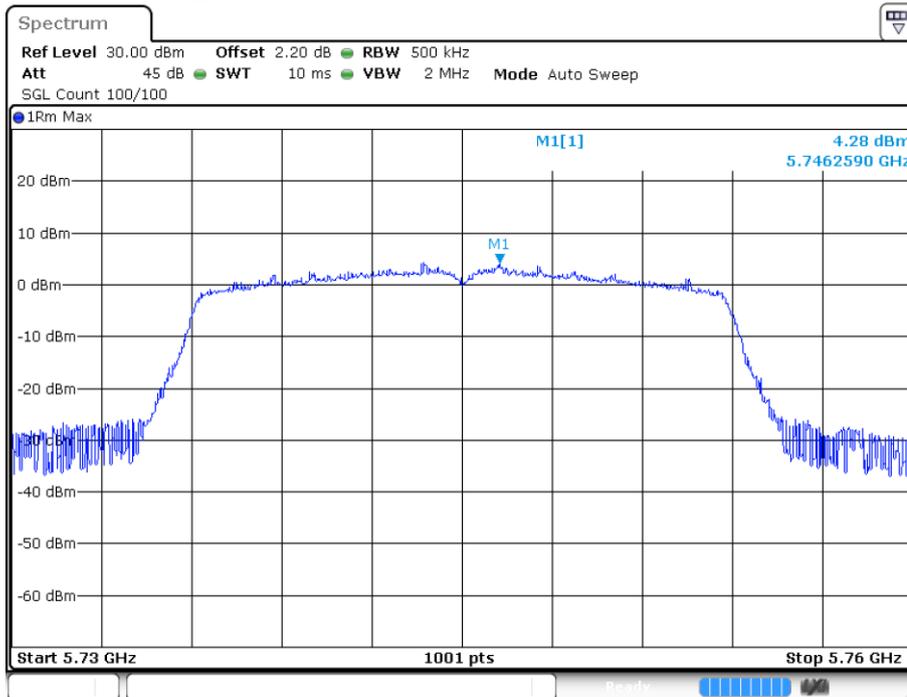


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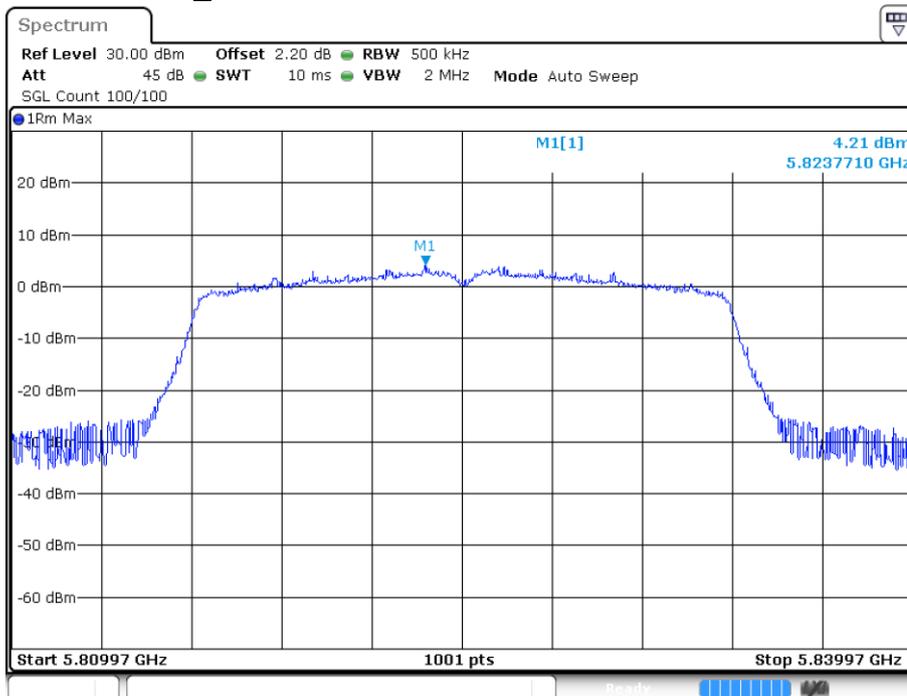
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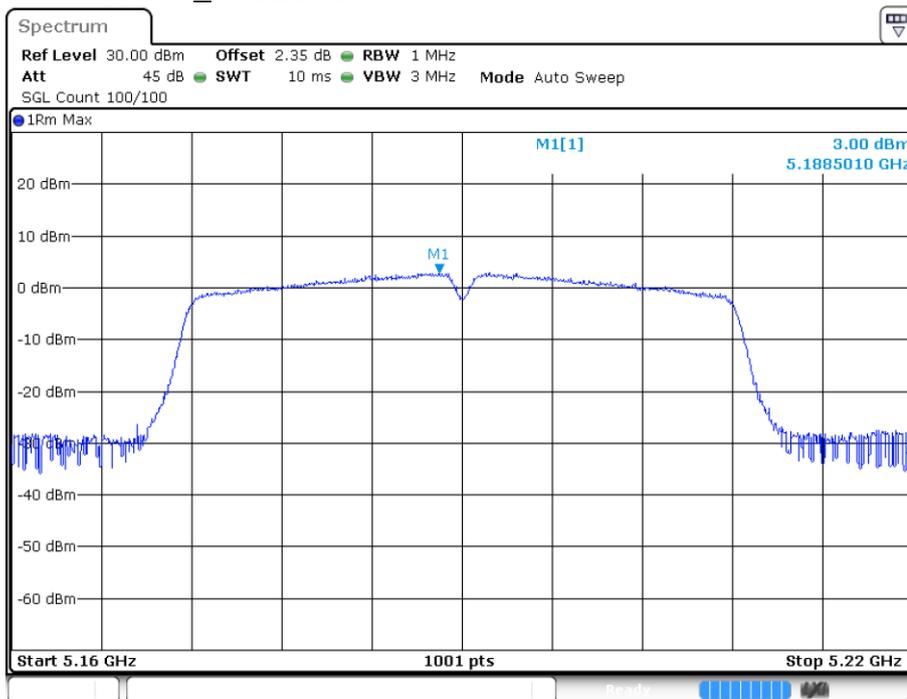


4.8.2.18 11N20_165 ANT 1



Date: 2.NOV.2019 00:47:07

4.8.2.19 11N40_38 ANT 1



Date: 2.NOV.2019 01:03:09

