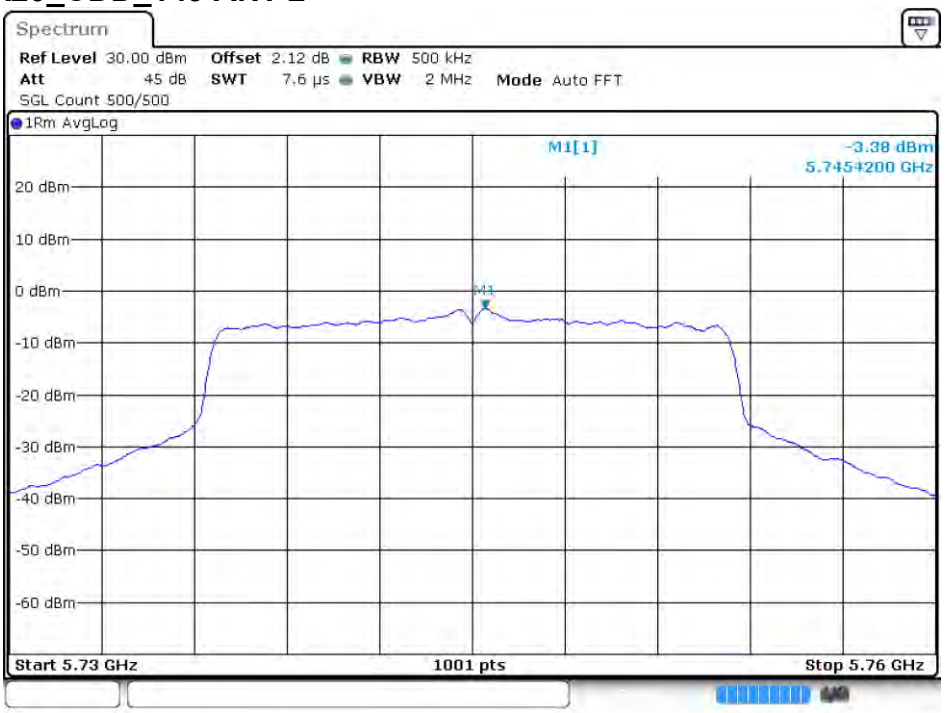
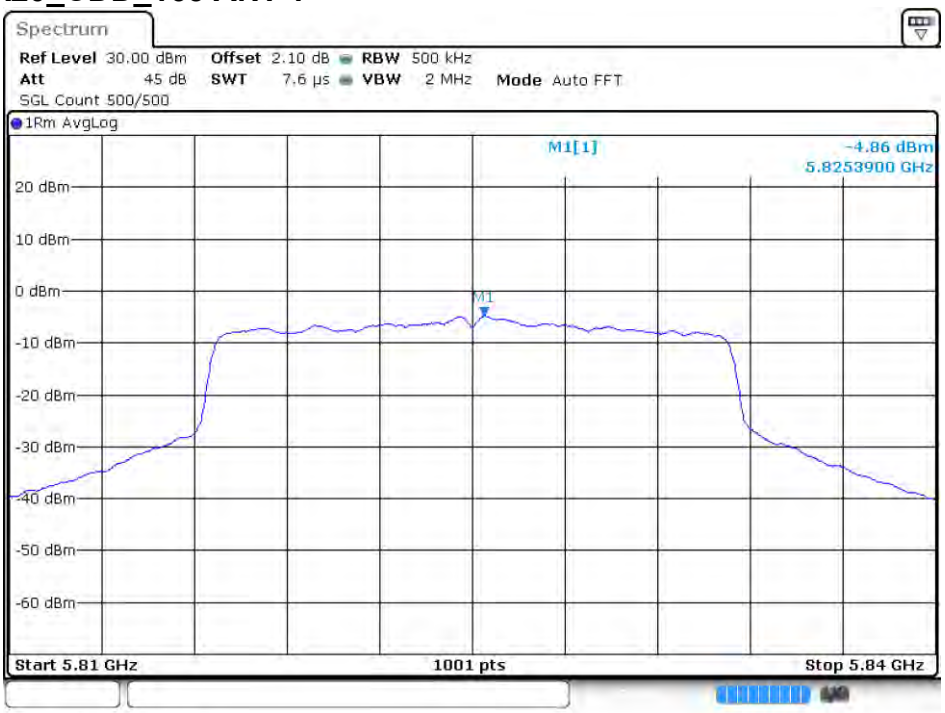
4.8.2.30 11A20_CDD_149 ANT 2



Date: 17.JAN.2020 03:18:24

4.8.2.31 11A20_CDD_165 ANT 1



Date: 17.JAN.2020 02:07:09

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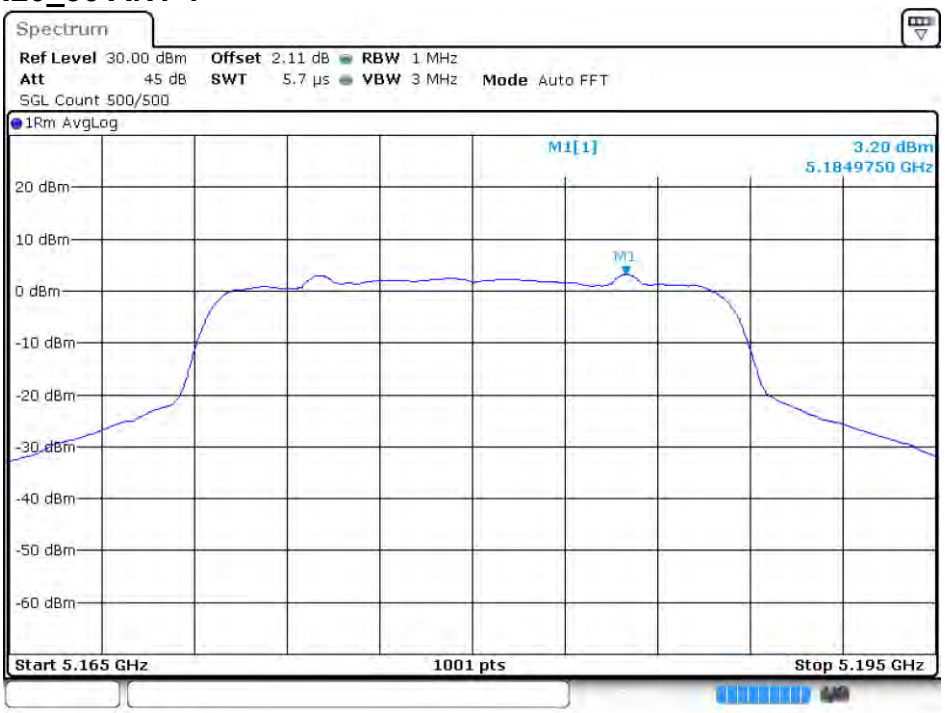
4.8.2.32 11A20_CDD_165 ANT 2

Date: 17.JAN.2020 03:19:39

4.8.2.33 11N20_36 ANT 1



Date: 16.JAN.2020 11:45:53

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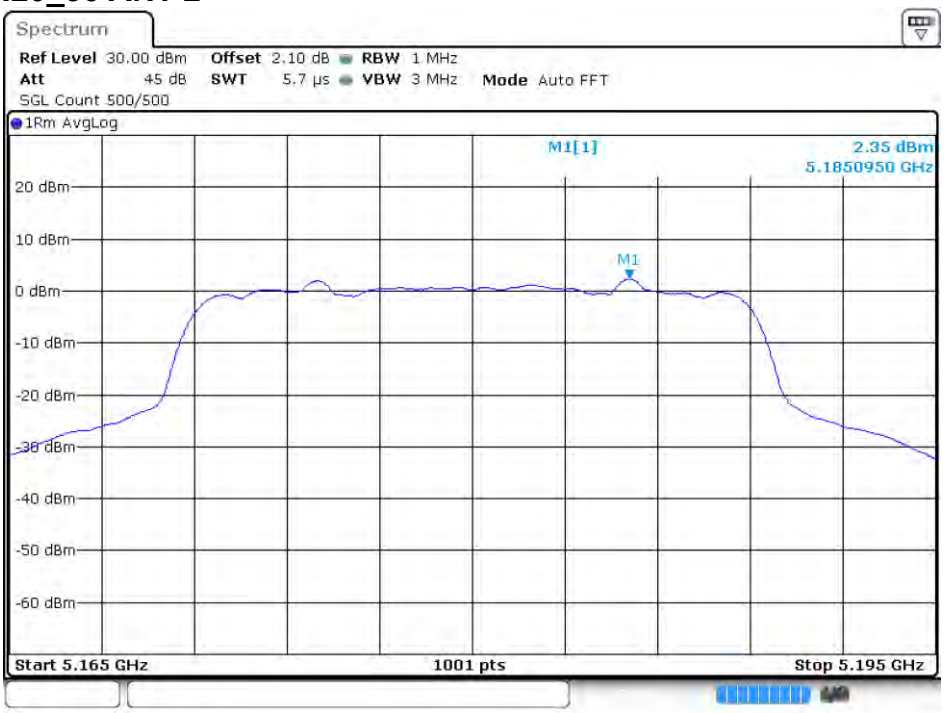
4.8.2.34 11N20_36 ANT 2



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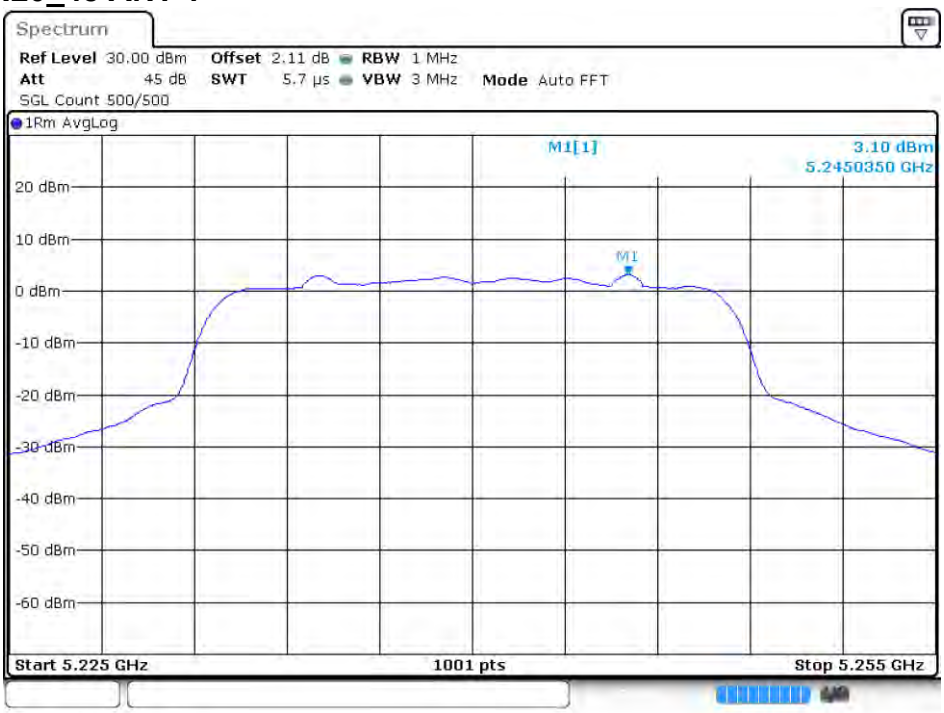
4.8.2.35 11N20_48 ANT 1



Date: 16.JAN.2020 11:46:41

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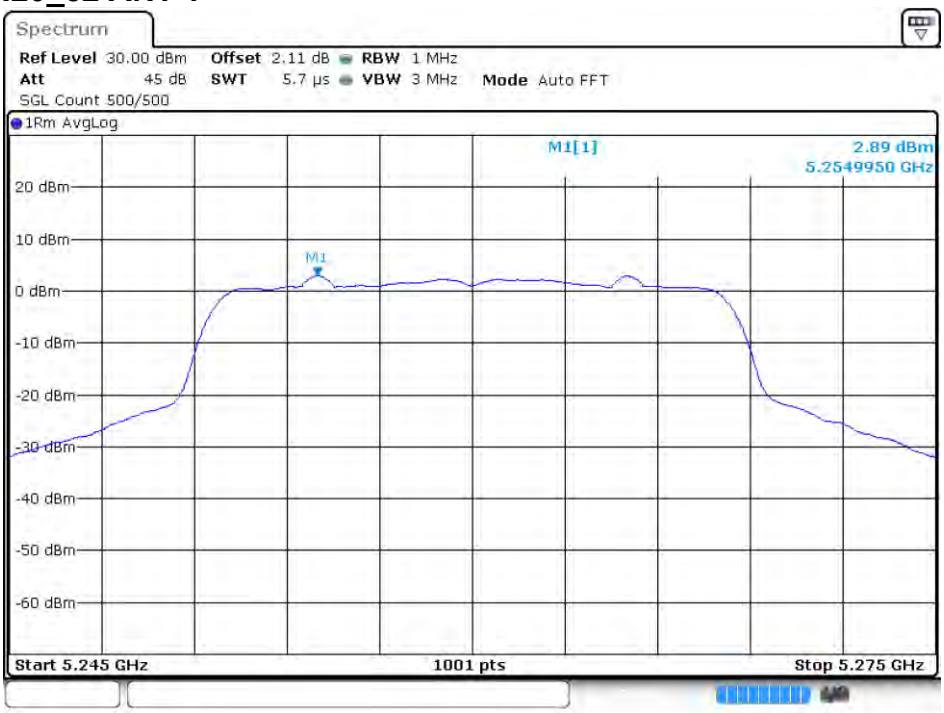
4.8.2.36 11N20_48 ANT 2

Date: 16.JAN.2020 12:41:52

4.8.2.37 11N20_52 ANT 1



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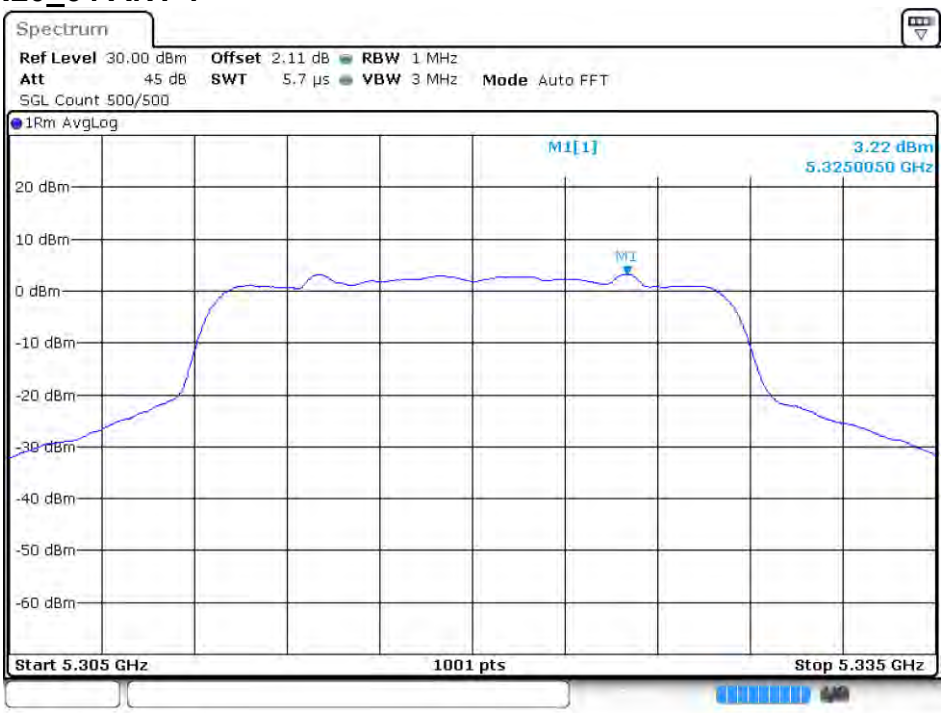
4.8.2.38 11N20_52 ANT 2

Date: 16.JAN.2020 12:42:52

4.8.2.39 11N20_64 ANT 1



Date: 16.JAN.2020 11:48:11

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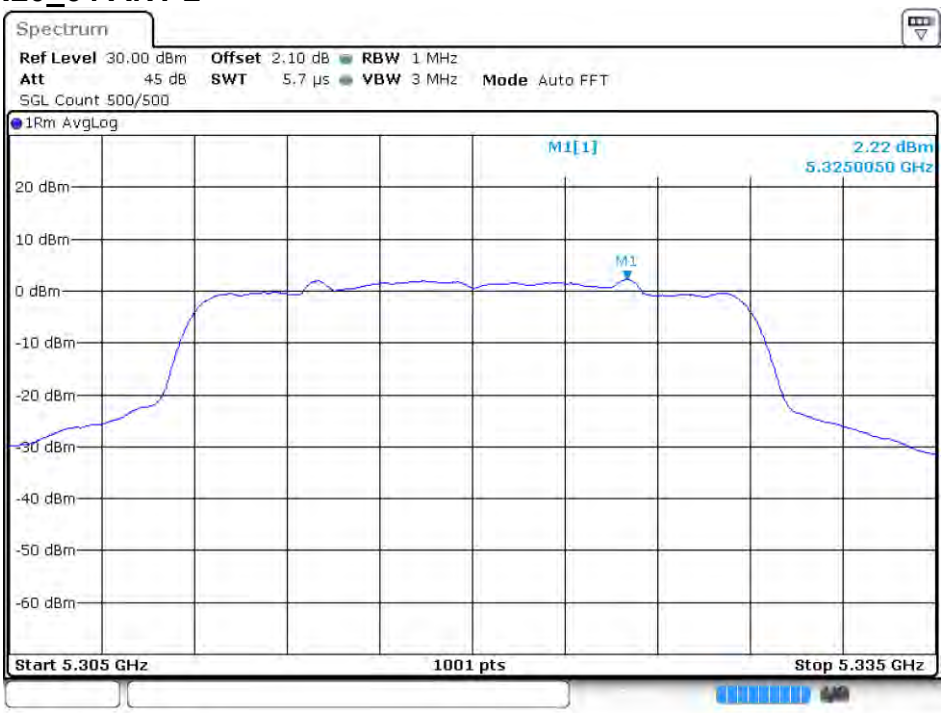
4.8.2.40 11N20_64 ANT 2



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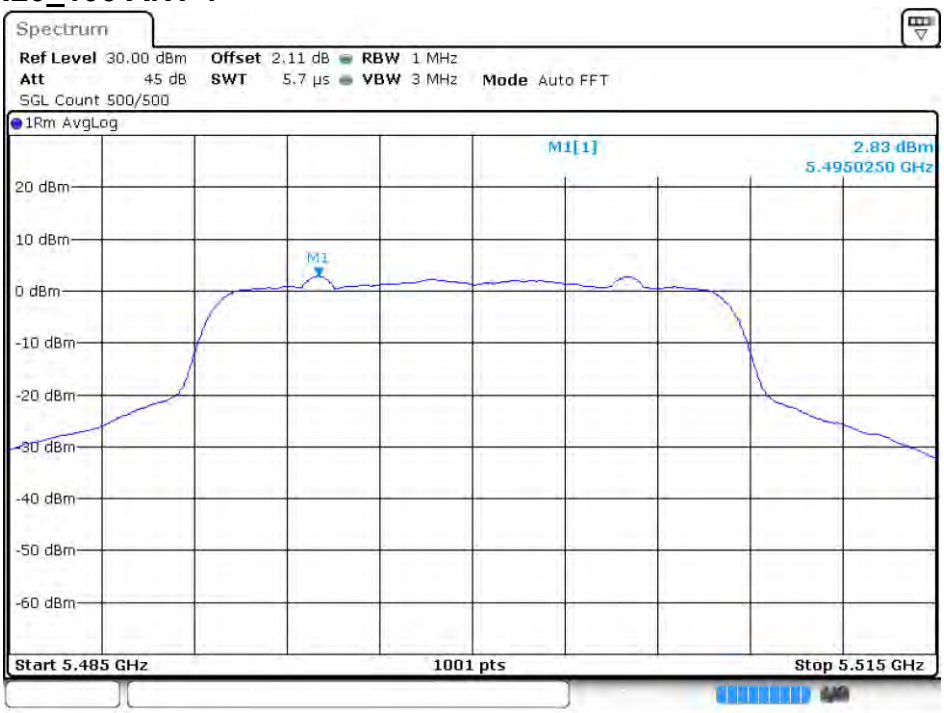

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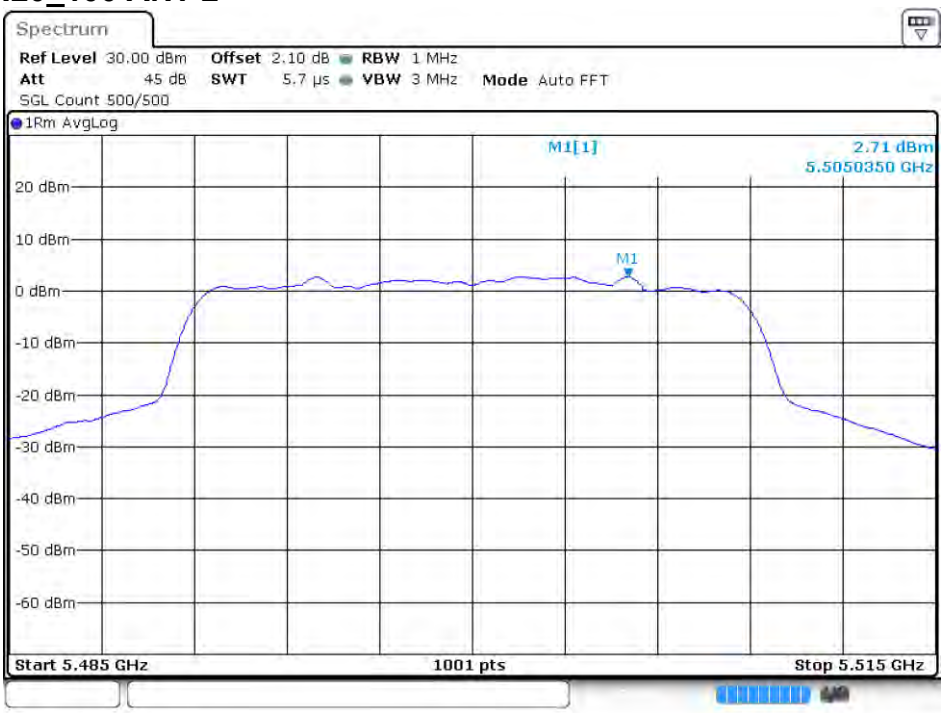

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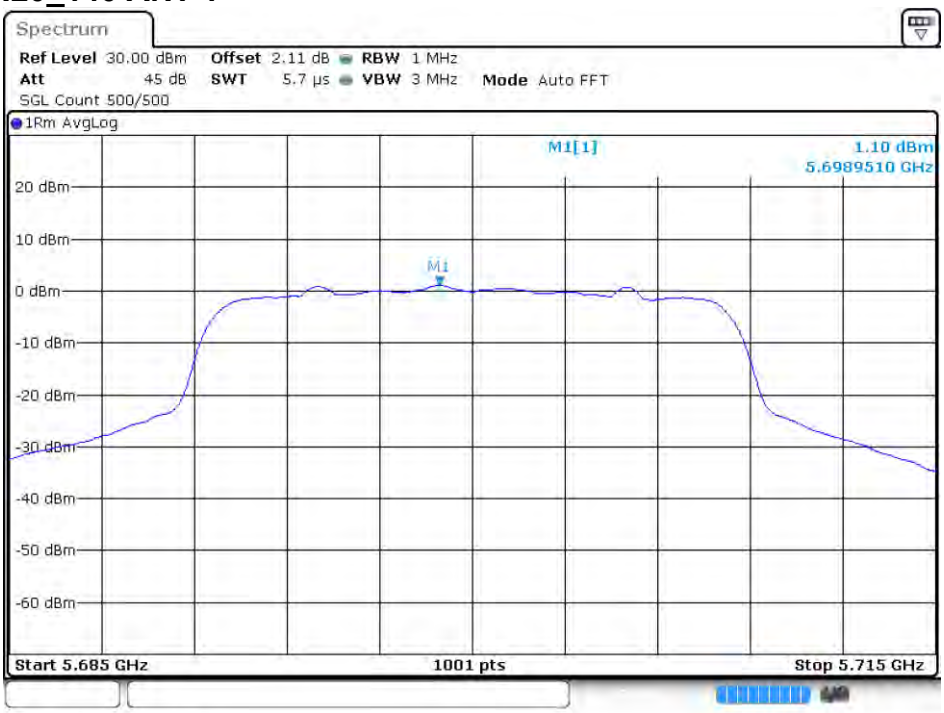

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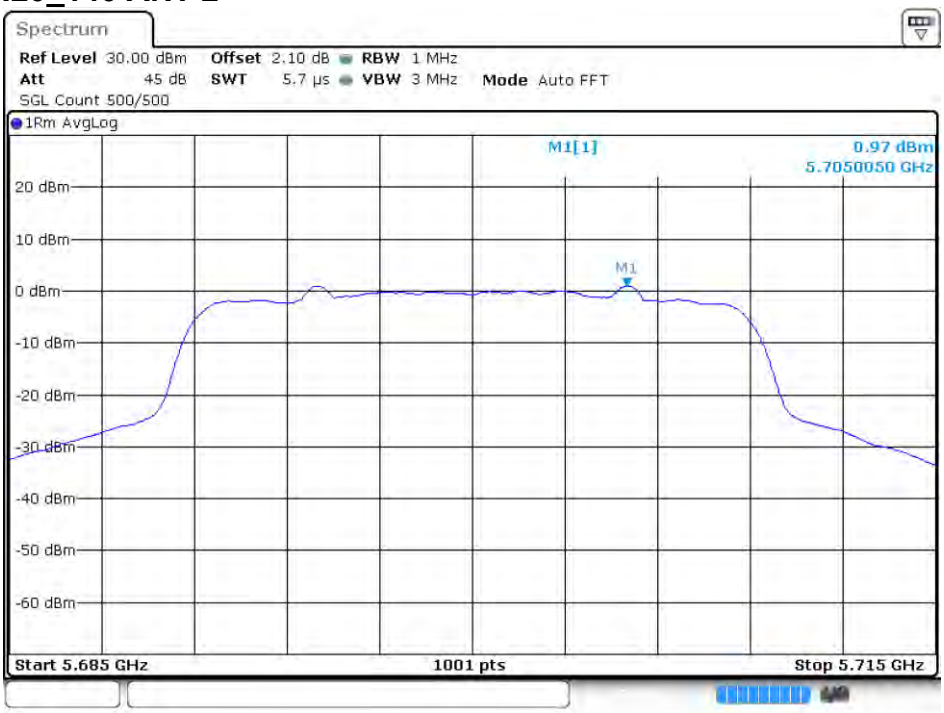

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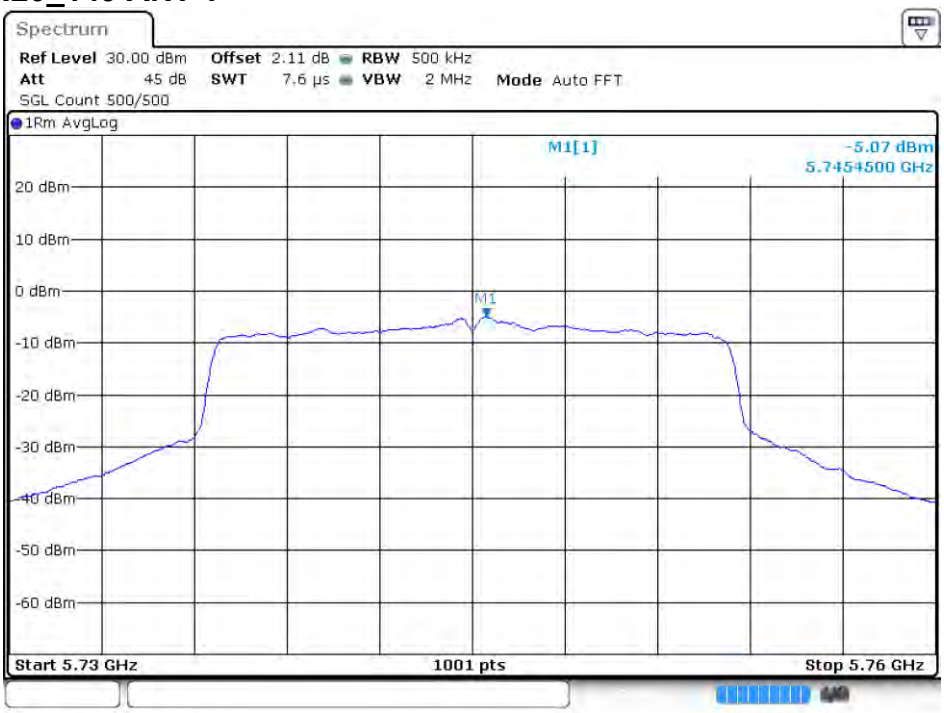

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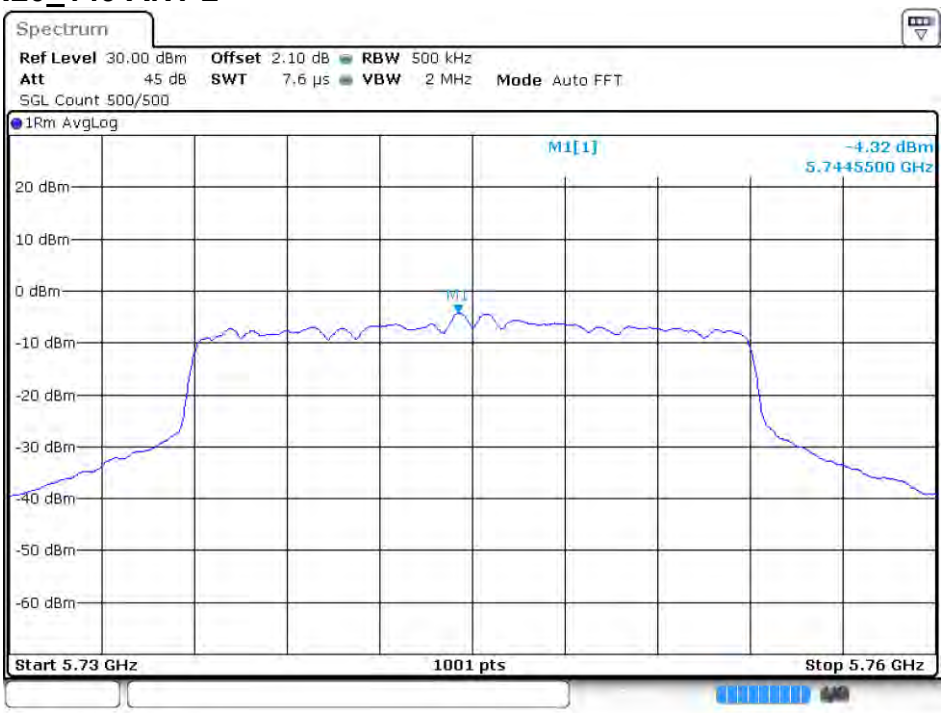
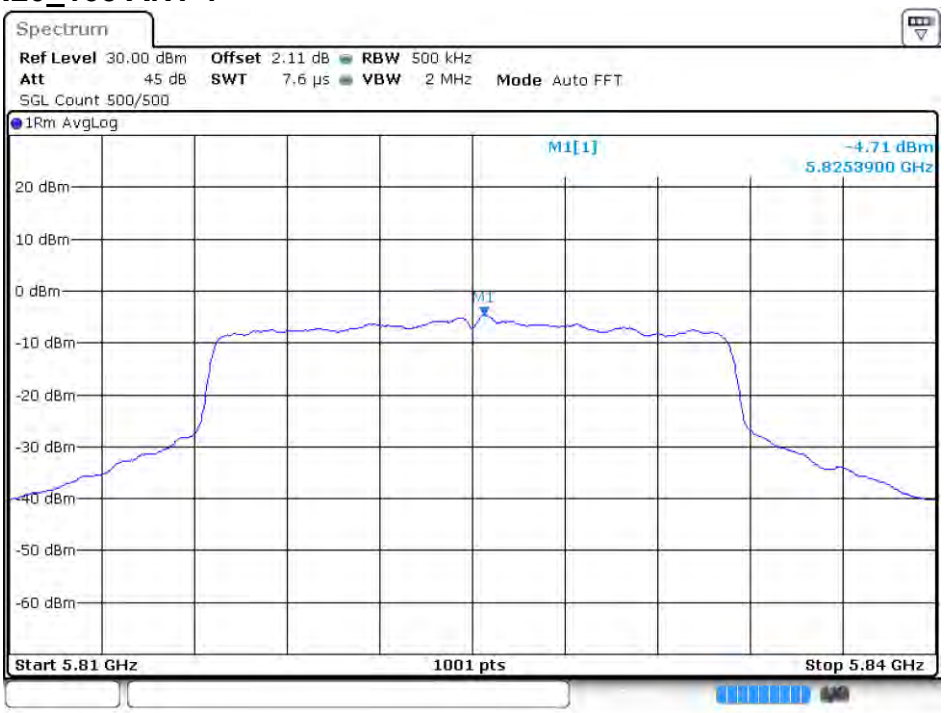
4.8.2.46 11N20_149 ANT 2



Date: 16.JAN.2020 12:30:18

4.8.2.47 11N20_165 ANT 1



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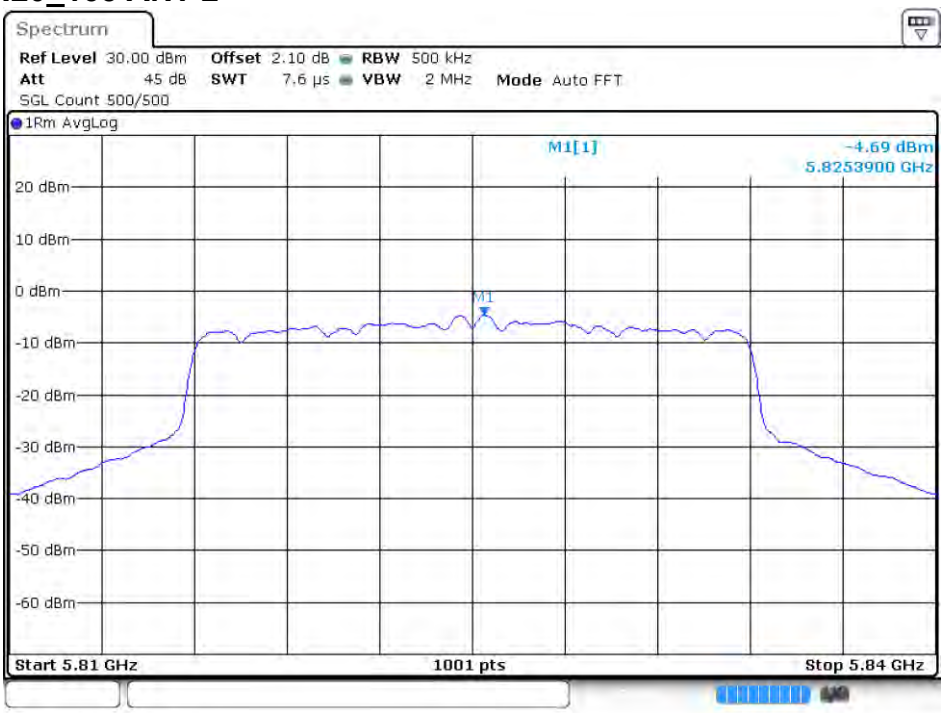
4.8.2.48 11N20_165 ANT 2



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4.8.2.49 11N20MIMO_36 ANT 1

Date: 17 JAN.2020 02:10:03

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4.8.2.50 11N20MIMO_36 ANT 2

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4.8.2.51 11N20MIMO_48 ANT 1

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4.8.2.52 11N20MIMO_48 ANT 2

Date: 17 JAN.2020 03:22:52

4.8.2.53 11N20MIMO_52 ANT 1

Date: 17 JAN.2020 02:13:41

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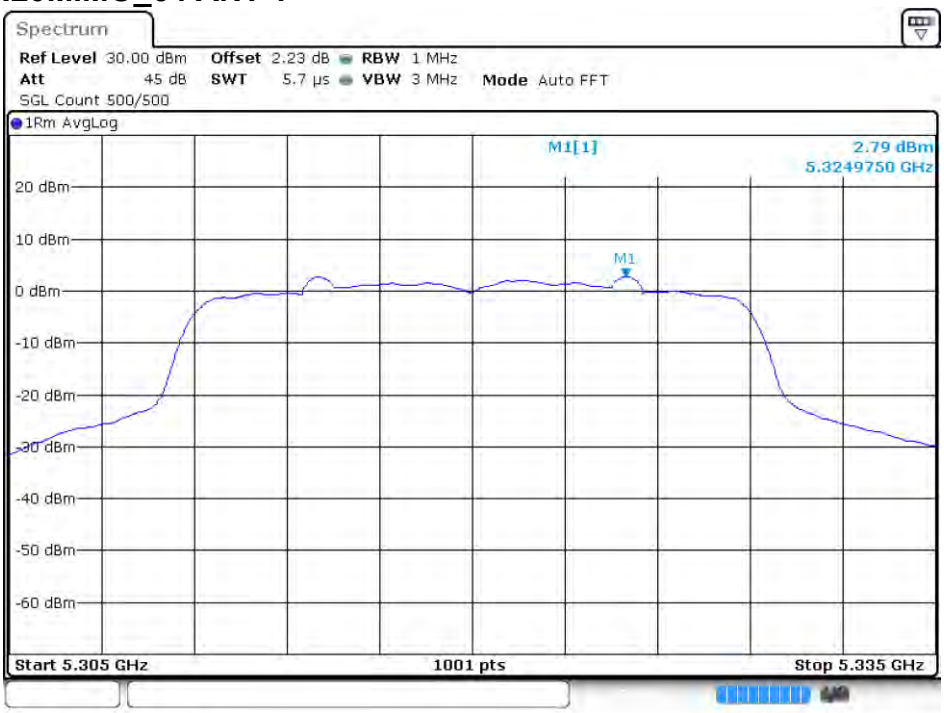
4.8.2.54 11N20MIMO_52 ANT 2

Date: 17 JAN.2020 03:23:59

4.8.2.55 11N20MIMO_64 ANT 1



Date: 17 JAN.2020 02:14:33

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4.8.2.56 11N20MIMO_64 ANT 2

Date: 17 JAN.2020 03:24:37

4.8.2.57 11N20MIMO_100 ANT 1

Date: 17 JAN.2020 02:15:31

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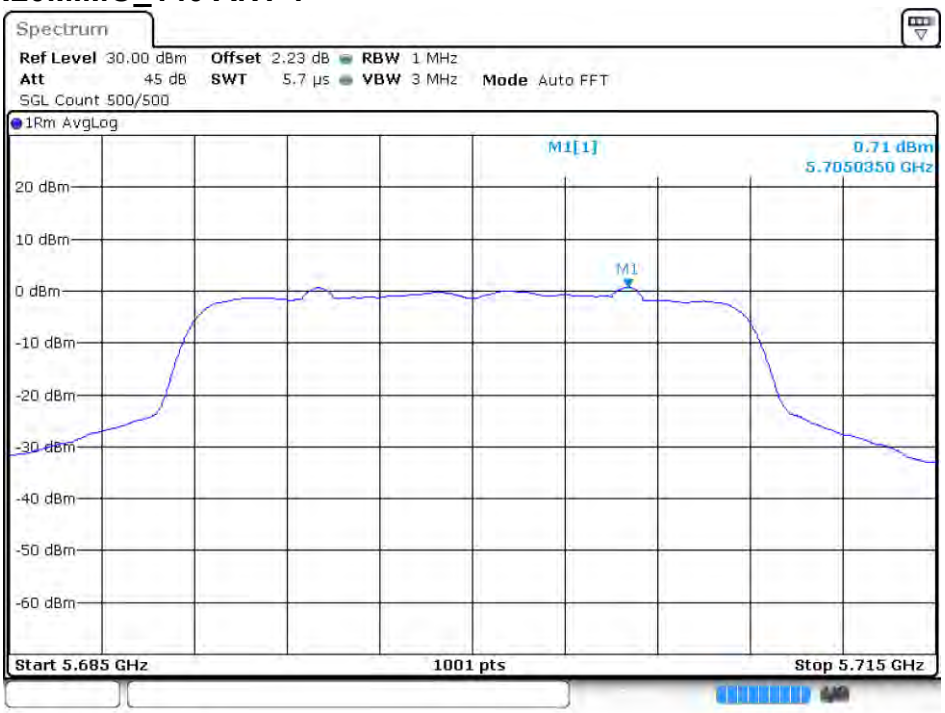
4.8.2.58 11N20MIMO_100 ANT 2

Date: 17 JAN.2020 03:25:36

4.8.2.59 11N20MIMO_140 ANT 1



Date: 17 JAN.2020 02:16:36

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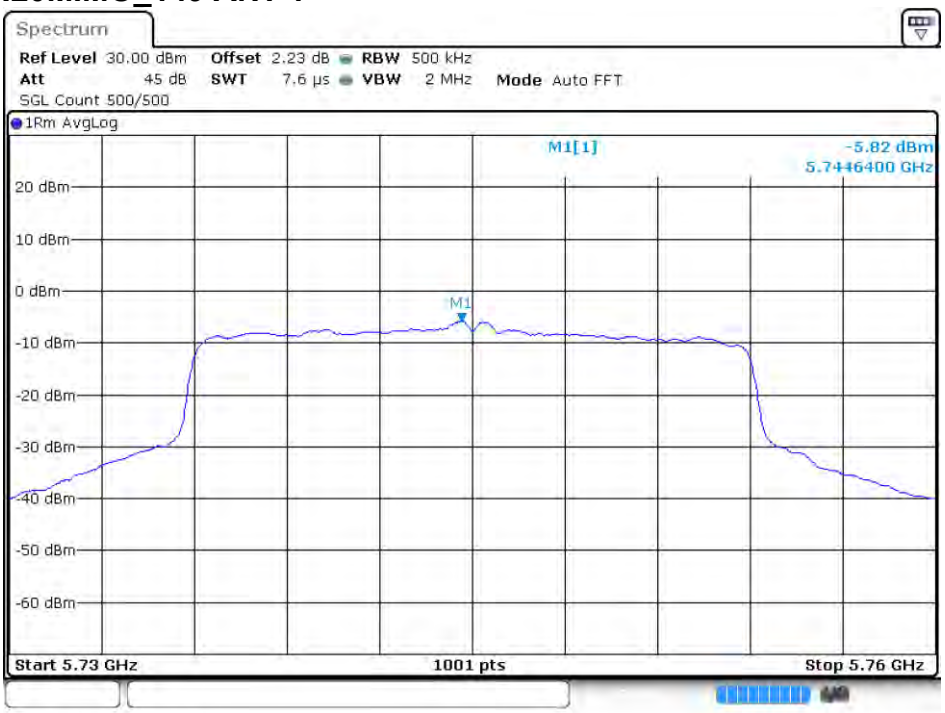
4.8.2.60 11N20MIMO_140 ANT 2

Date: 17 JAN.2020 03:26:35

4.8.2.61 11N20MIMO_149 ANT 1



Date: 17 JAN.2020 02:18:22

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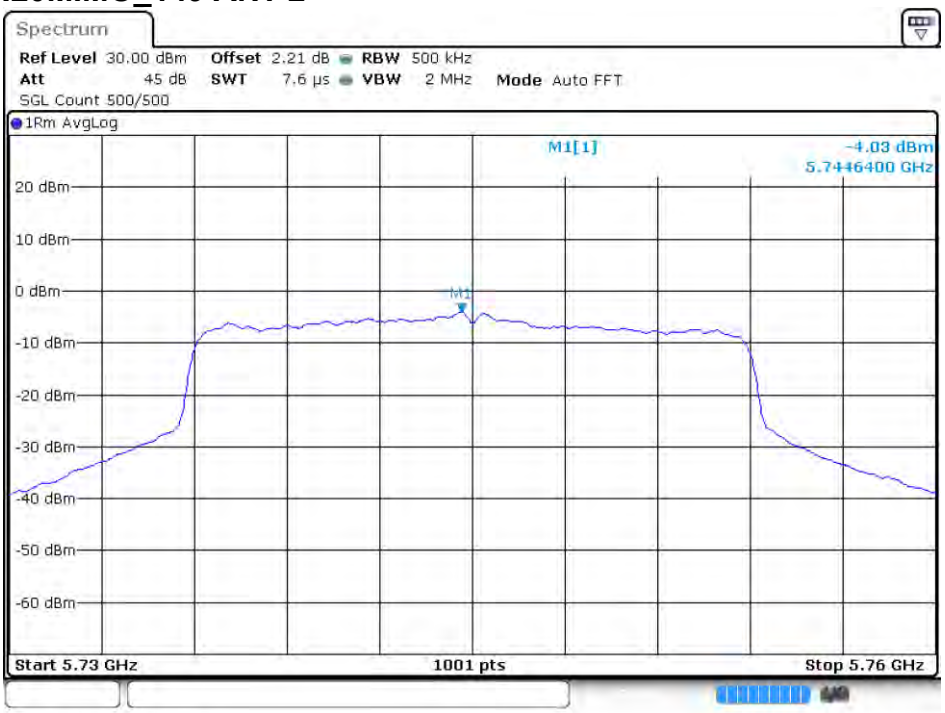
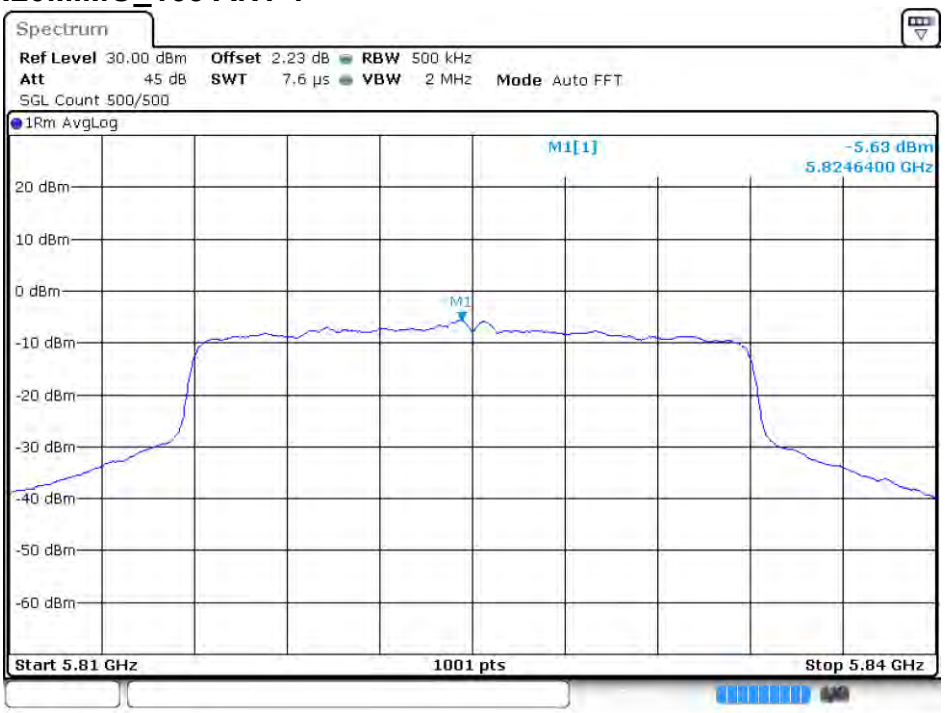
4.8.2.62 11N20MIMO_149 ANT 2



Date: 17 JAN.2020 03:32:04

4.8.2.63 11N20MIMO_165 ANT 1



Date: 17 JAN.2020 02:19:43

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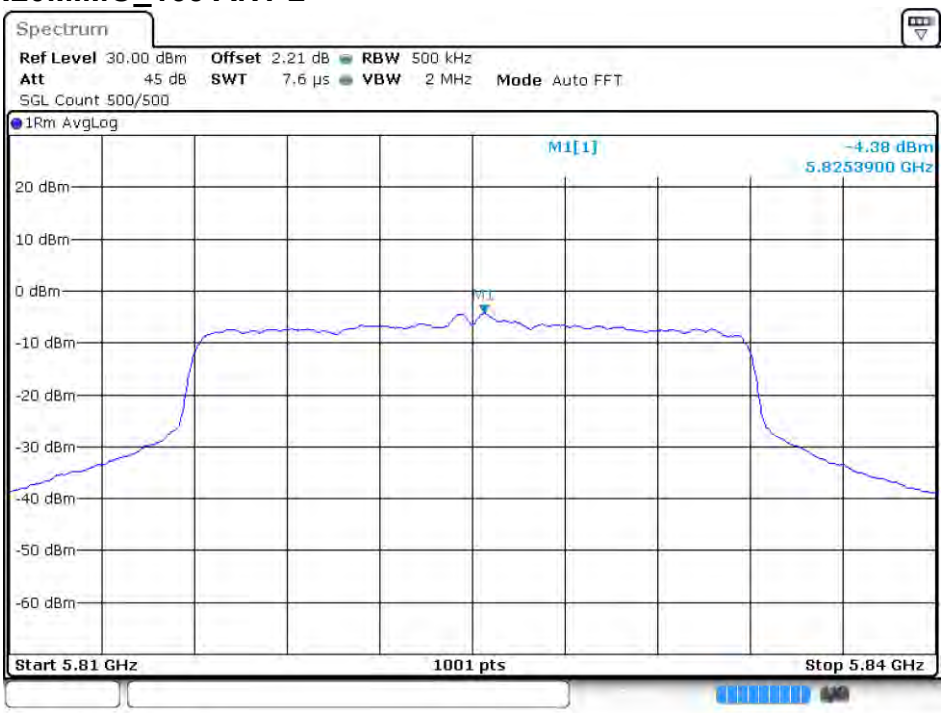
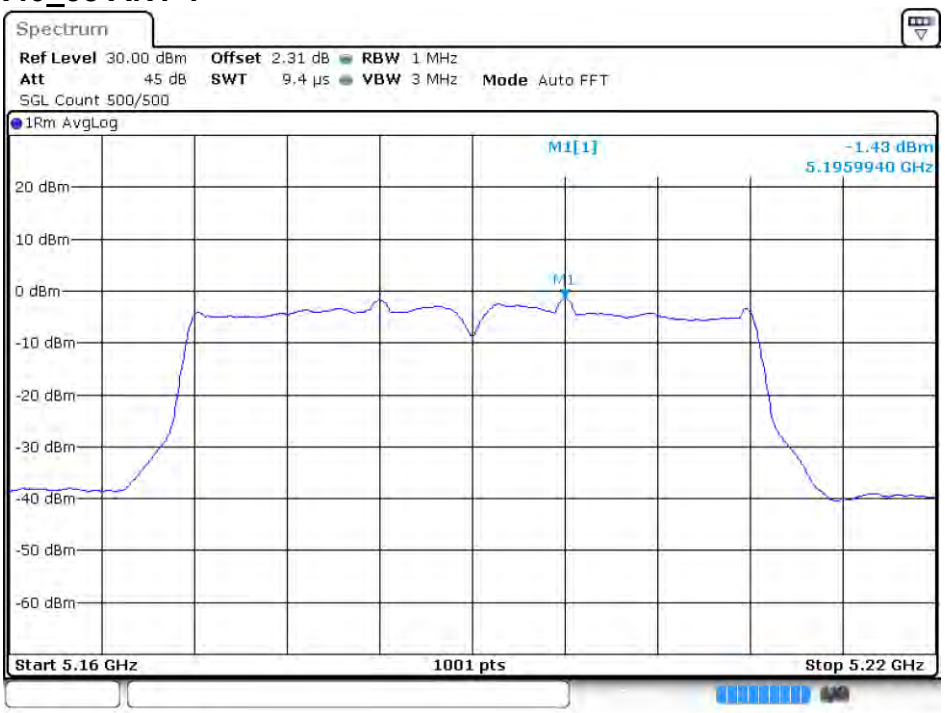
4.8.2.64 11N20MIMO_165 ANT 2



Date: 17.JAN.2020 03:33:01

4.8.2.65 11N40_38 ANT 1



Date: 17.JAN.2020 01:12:36

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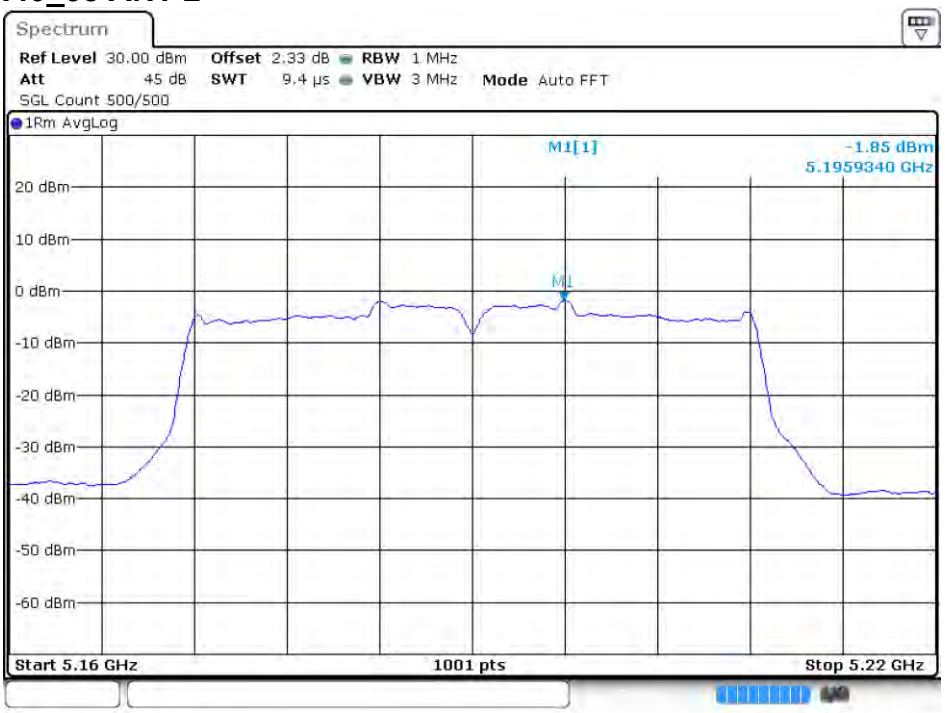
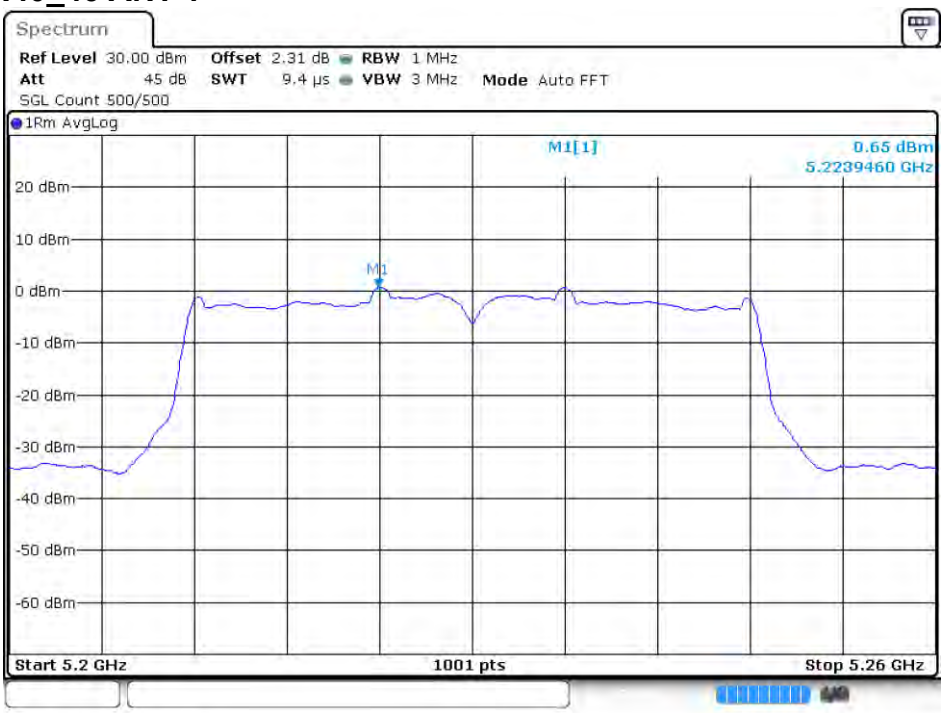
4.8.2.66 11N40_38 ANT 2



Date: 16.JAN.2020 12:55:46

4.8.2.67 11N40_46 ANT 1



Date: 17.JAN.2020 01:13:55

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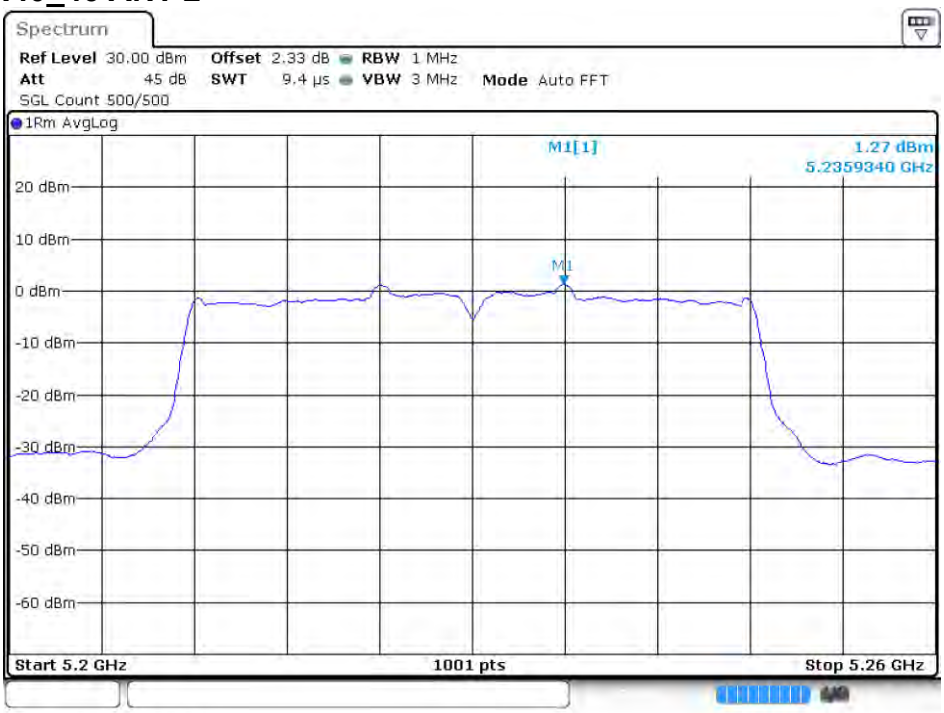
4.8.2.68 11N40_46 ANT 2



Date: 16.JAN.2020 12:56:49

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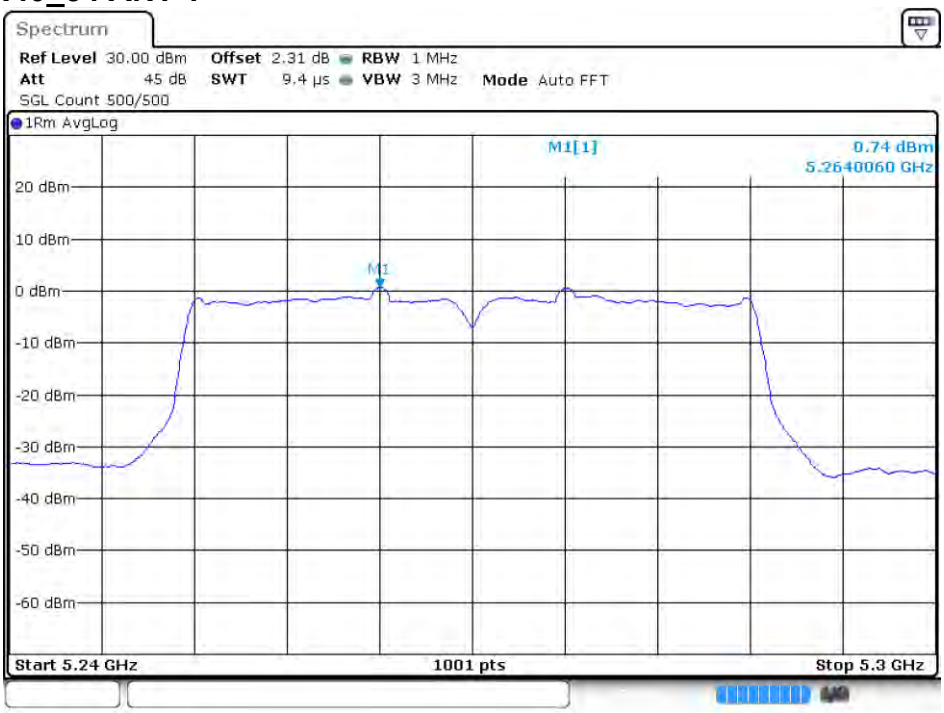

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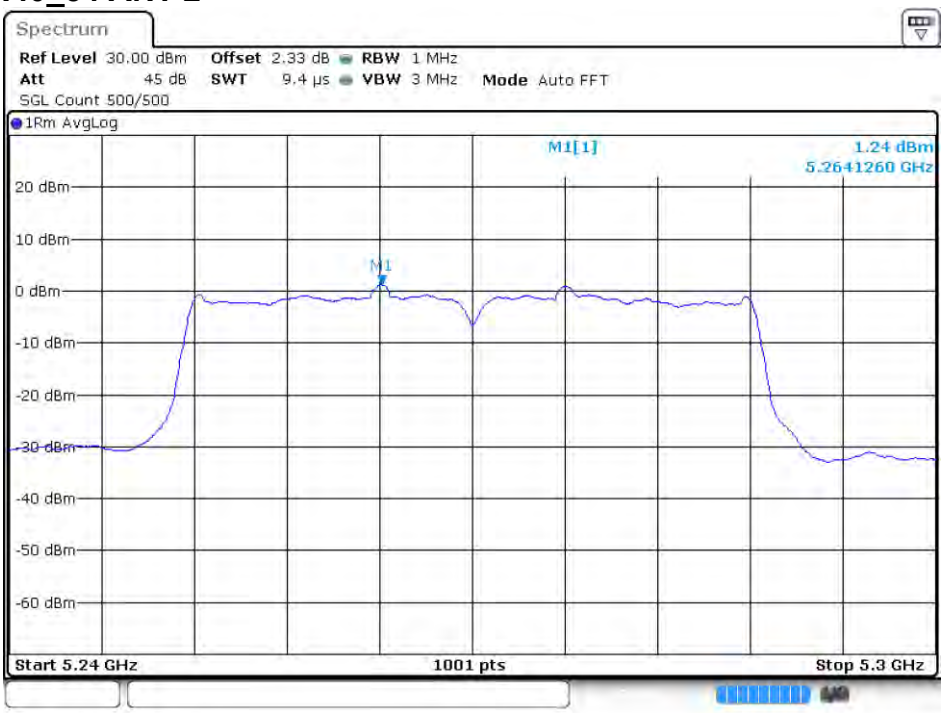
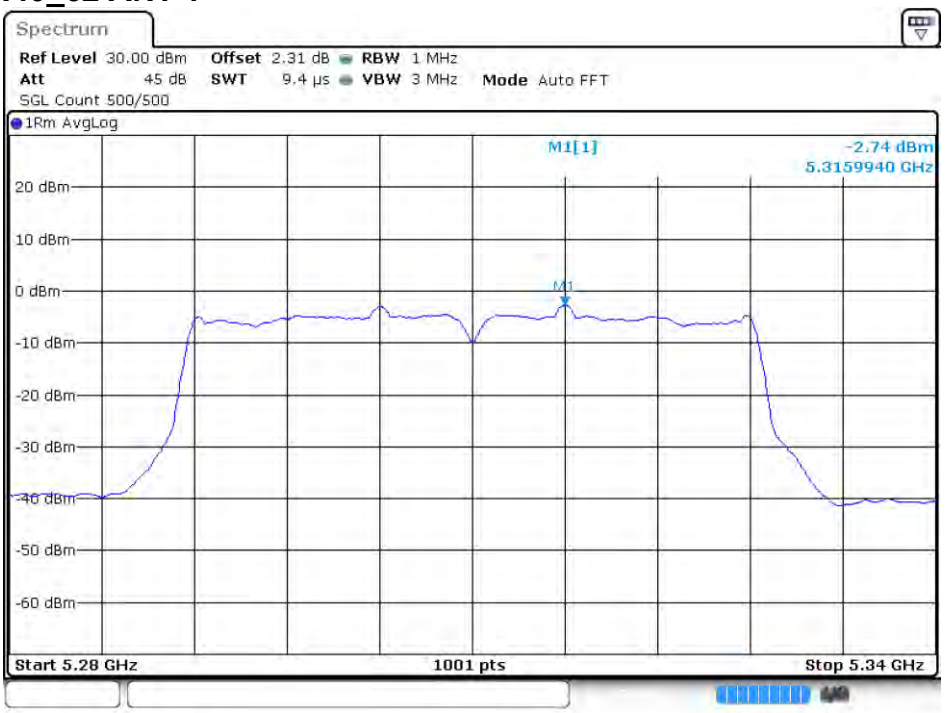
4.8.2.70 11N40_54 ANT 2



Date: 16.JAN.2020 12:58:18

4.8.2.71 11N40_62 ANT 1



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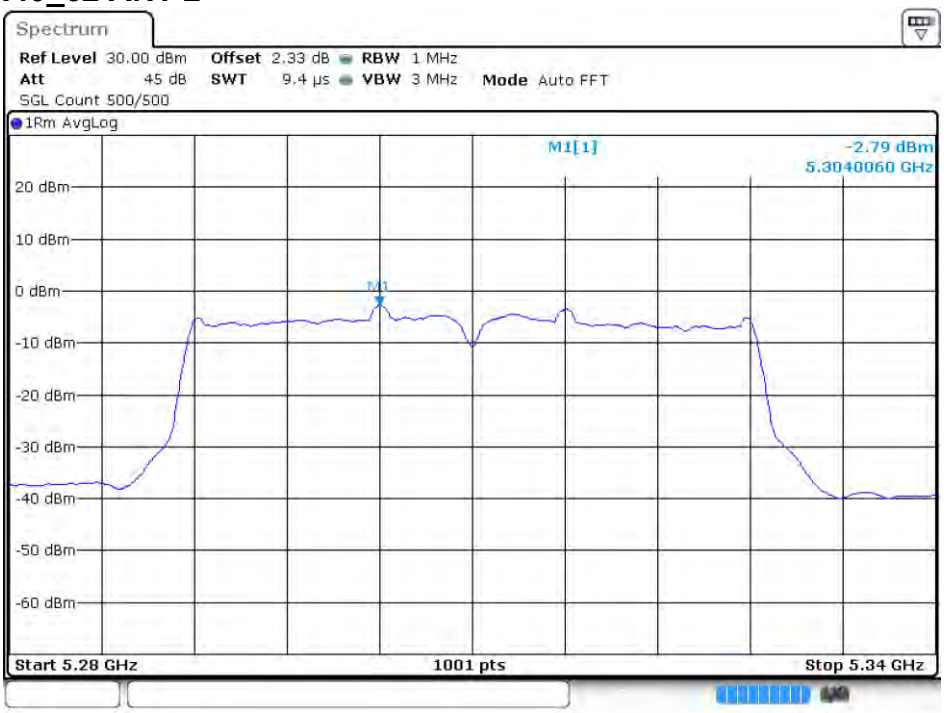
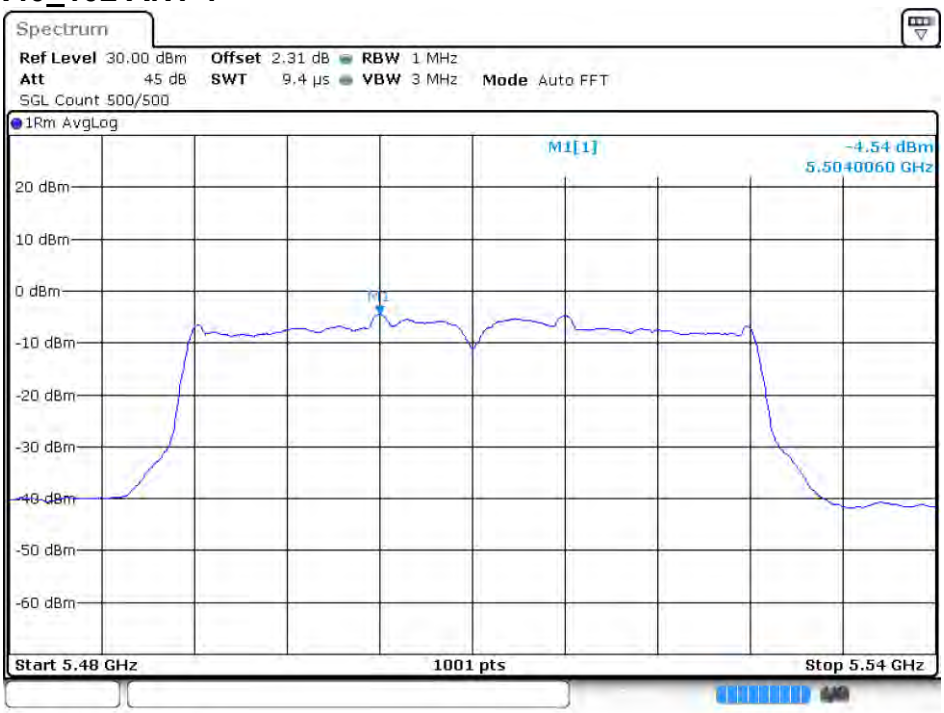
4.8.2.72 11N40_62 ANT 2



Date: 16.JAN.2020 12:59:04

4.8.2.73 11N40_102 ANT 1



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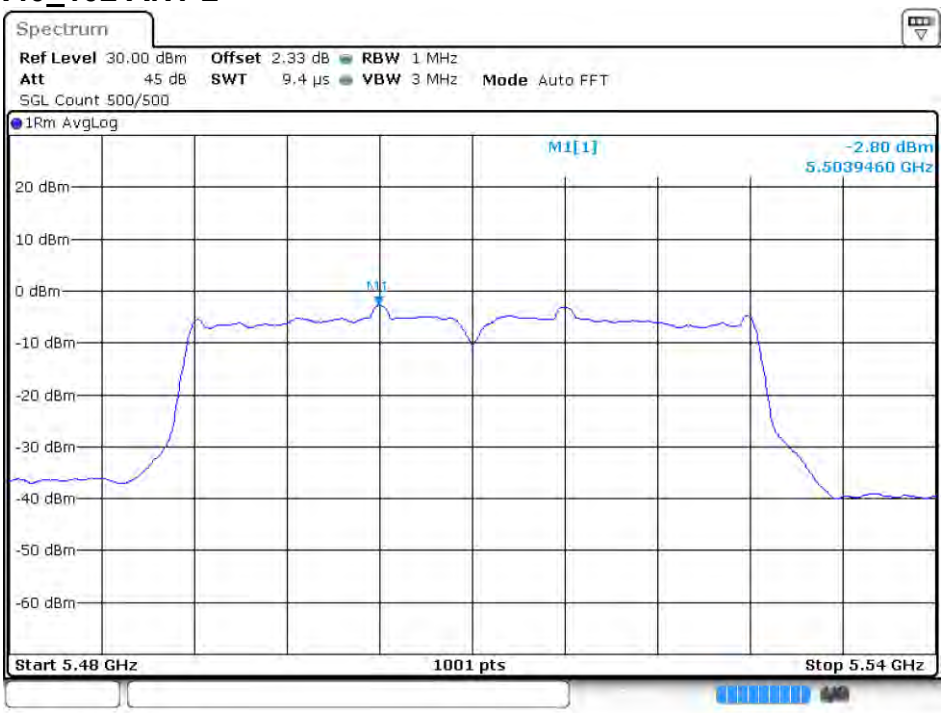

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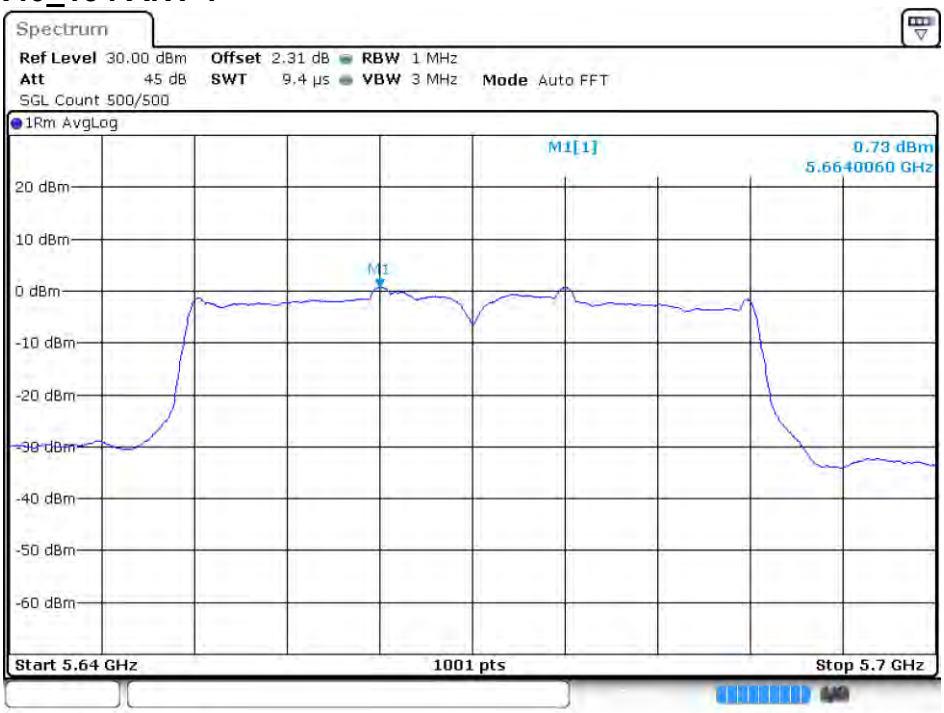

Date: 17.JAN.2020 01:22:30

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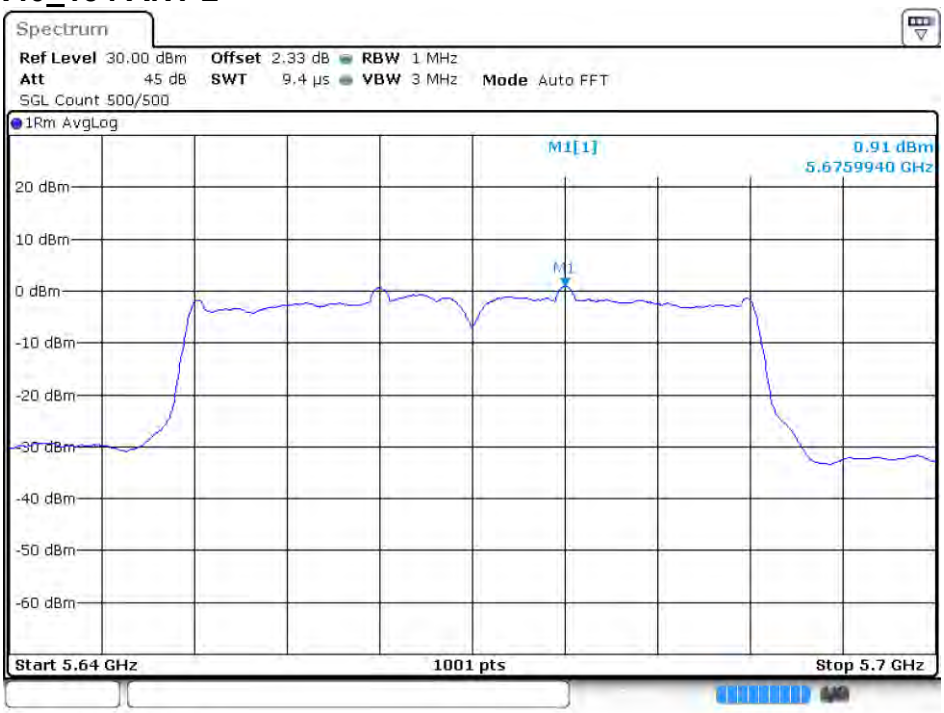
4.8.2.76 11N40_134 ANT 2



Date: 16.JAN.2020 13:03:48

4.8.2.77 11N40_151 ANT 1

Date: 17.JAN.2020 01:24:13

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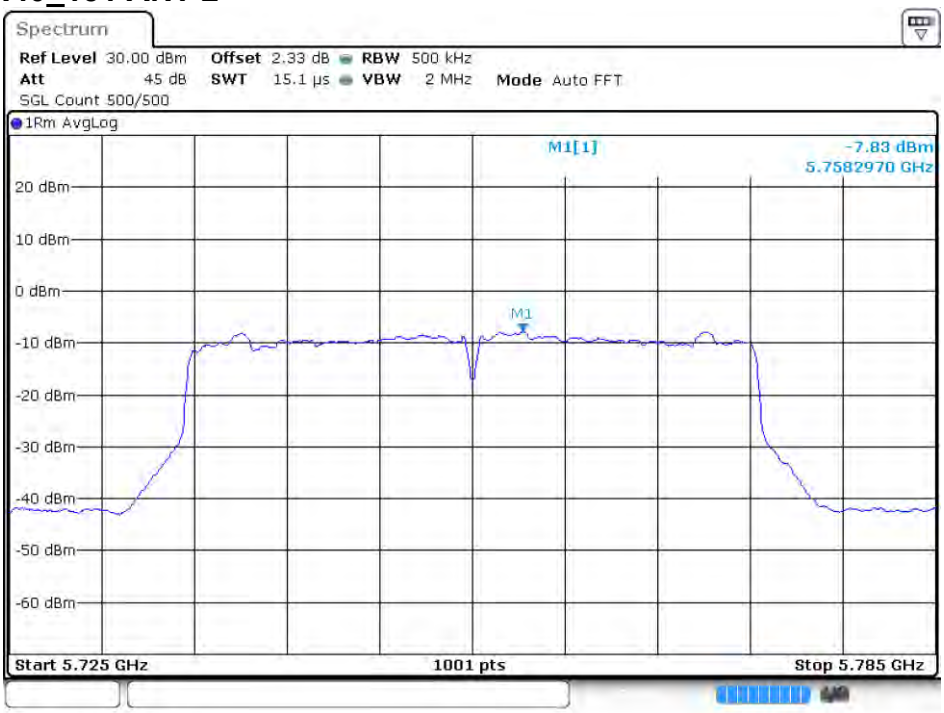
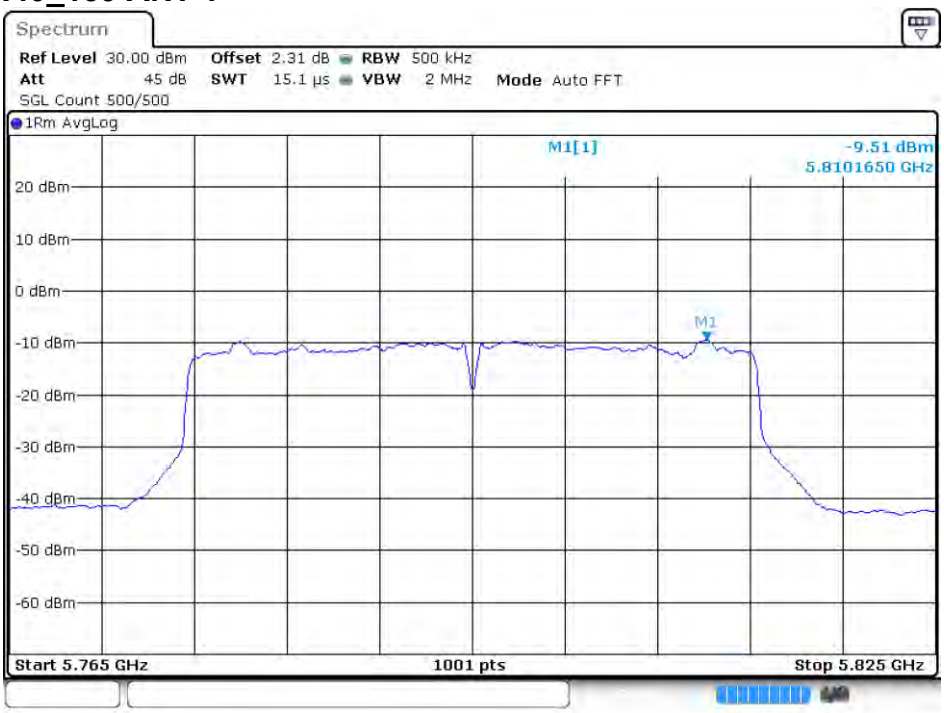
4.8.2.78 11N40_151 ANT 2



Date: 16.JAN.2020 13:05:10

4.8.2.79 11N40_159 ANT 1



Date: 17.JAN.2020 01:25:00

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4.8.2.80 11N40_159 ANT 2

Date: 16.JAN.2020 13:06:08

4.8.2.81 11N40MIMO_38 ANT 1

Date: 17.JAN.2020 02:33:05

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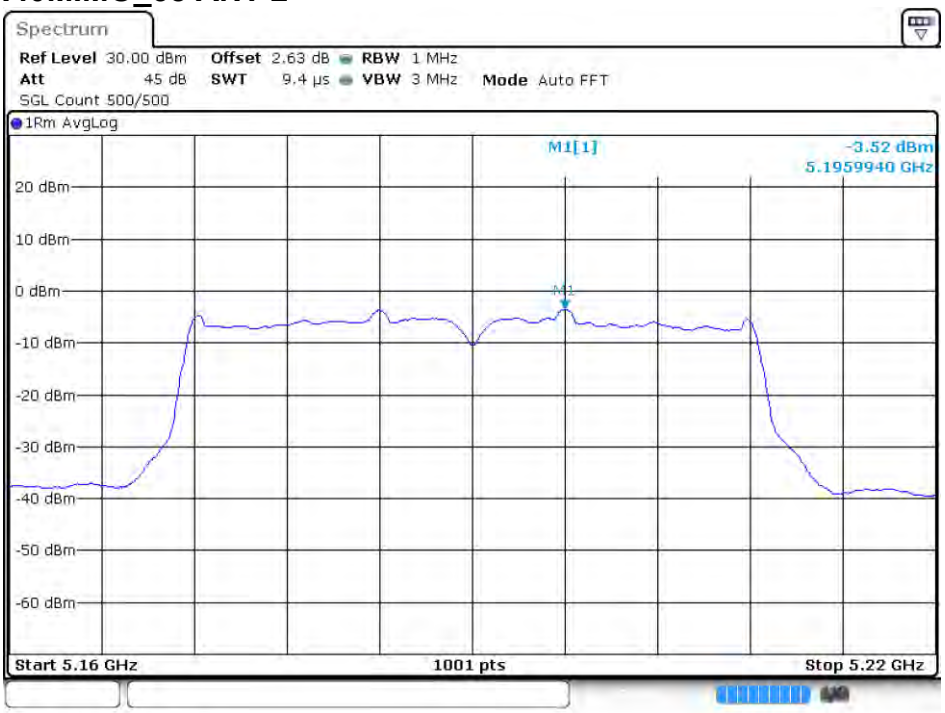
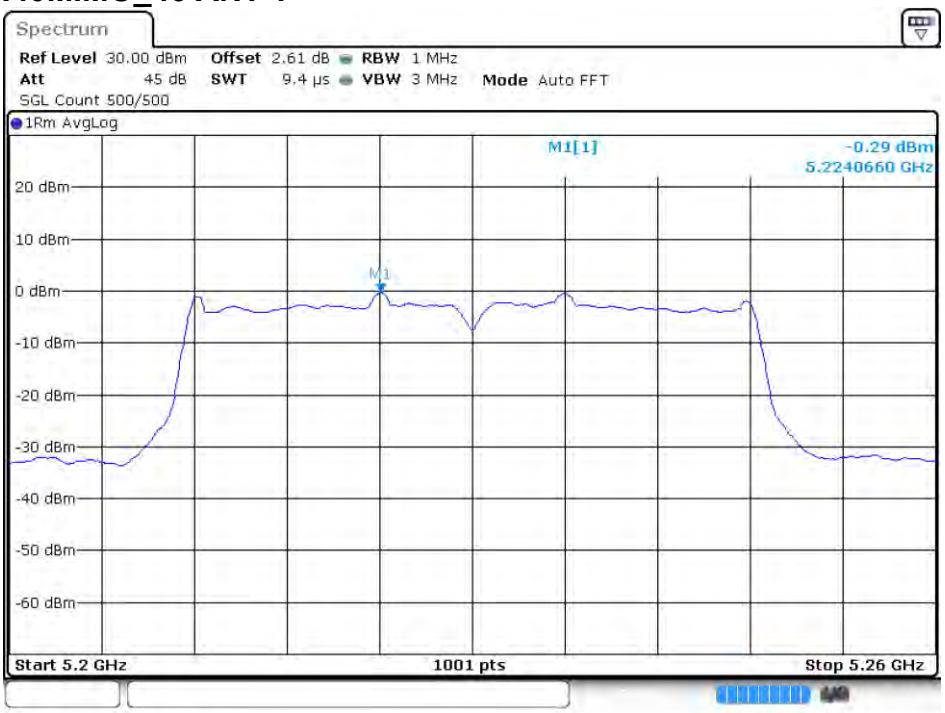
4.8.2.82 11N40MIMO_38 ANT 2



Date: 17.JAN.2020 05:46:51

4.8.2.83 11N40MIMO_46 ANT 1



Date: 17.JAN.2020 02:34:08

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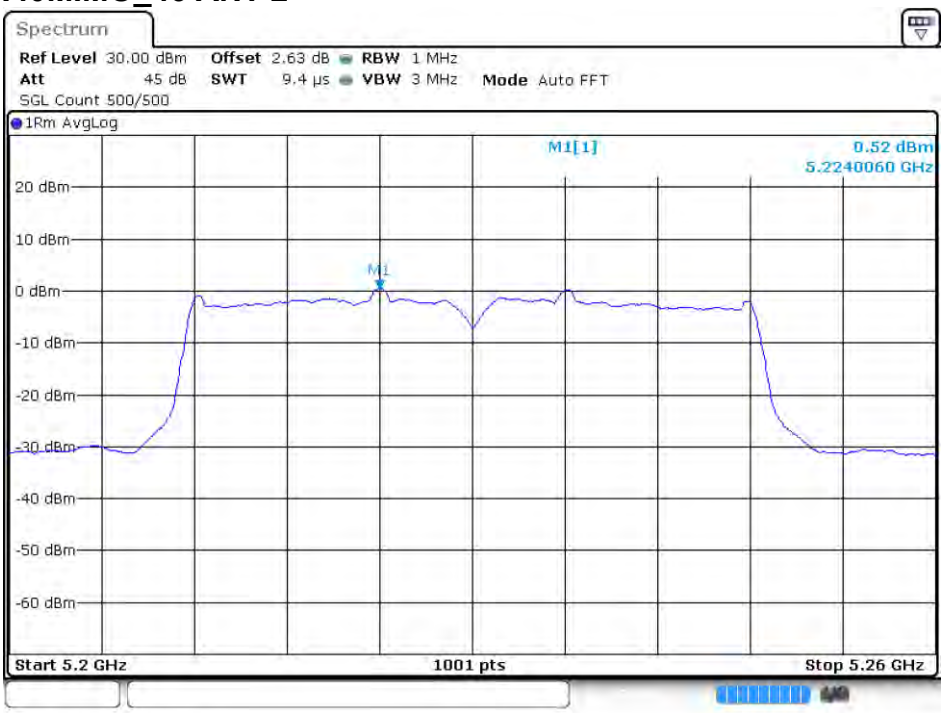
4.8.2.84 11N40MIMO_46 ANT 2



Date: 17 JAN.2020 05:48:48

4.8.2.85 11N40MIMO_54 ANT 1

Date: 17 JAN.2020 02:35:43

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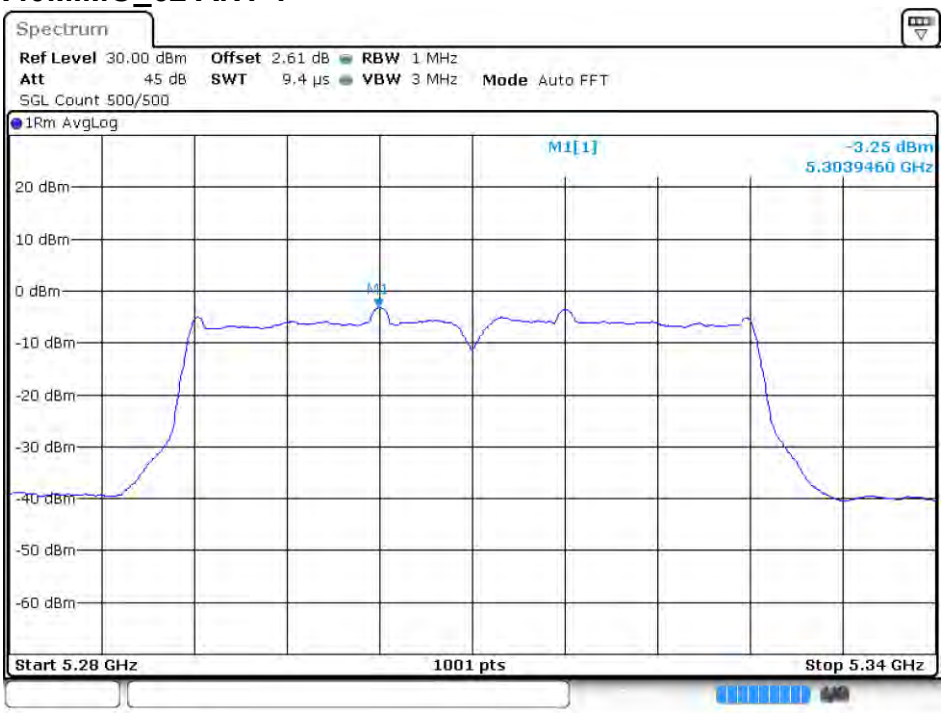
4.8.2.86 11N40MIMO_54 ANT 2

Date: 17 JAN.2020 05:50:34

4.8.2.87 11N40MIMO_62 ANT 1



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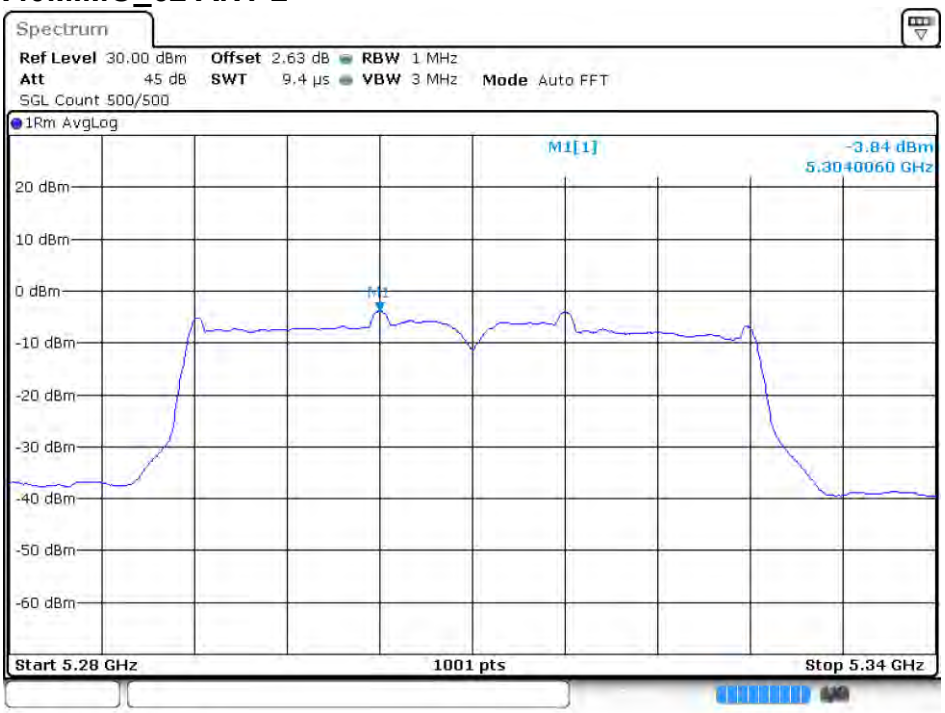
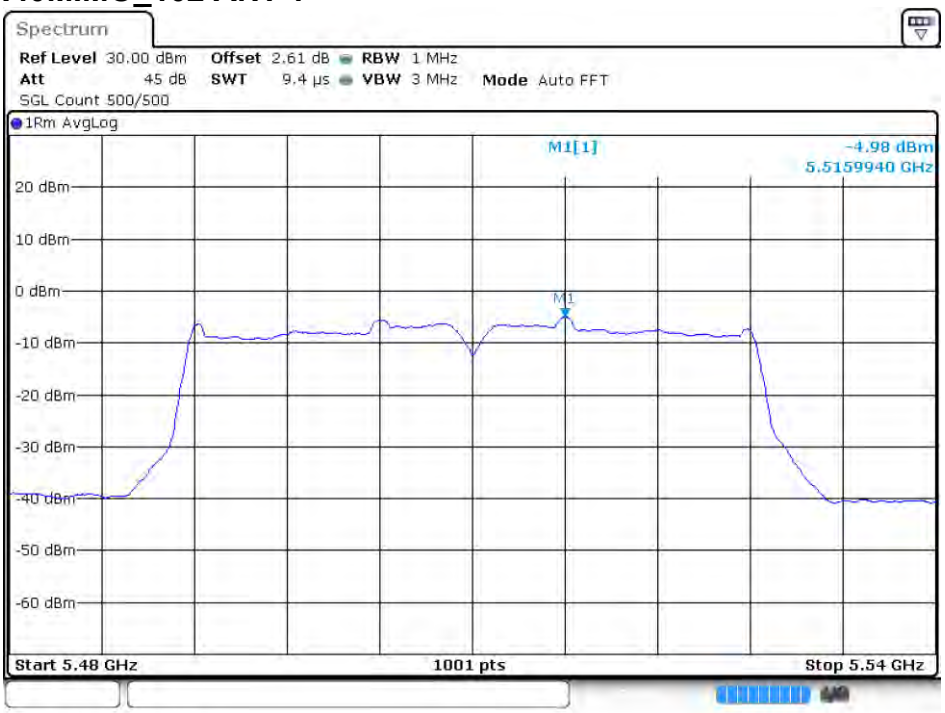
4.8.2.88 11N40MIMO_62 ANT 2



Date: 17 JAN.2020 05:52:30

4.8.2.89 11N40MIMO_102 ANT 1



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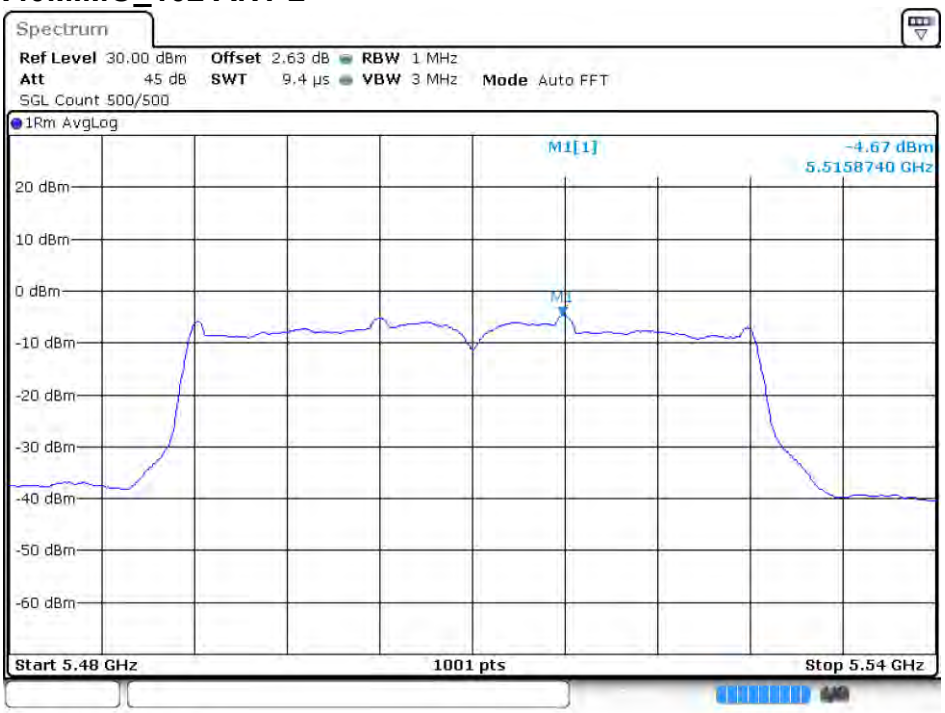
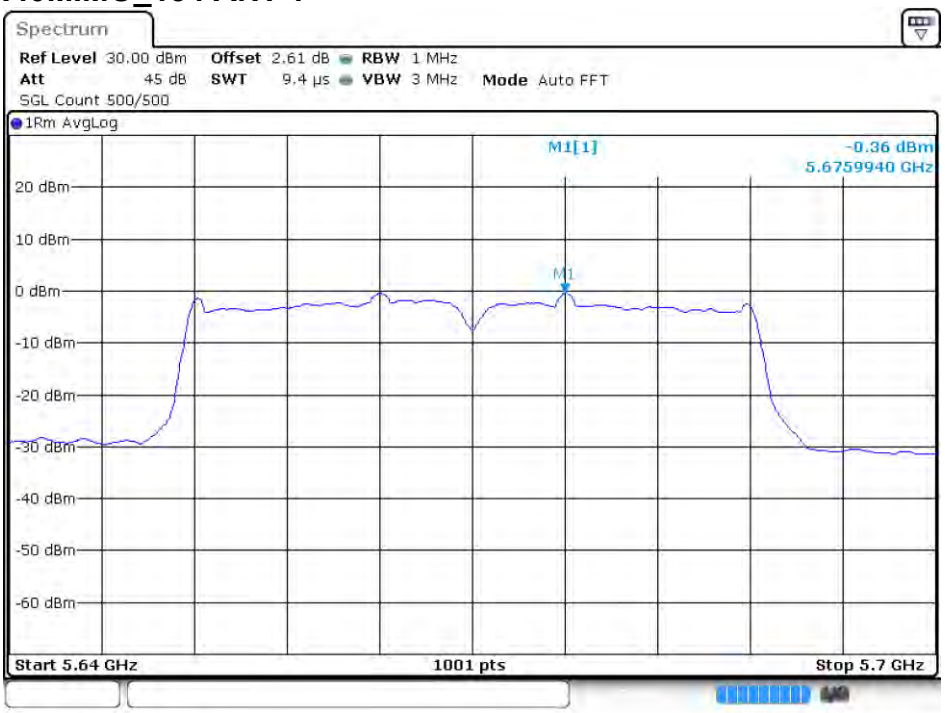
4.8.2.90 11N40MIMO_102 ANT 2



Date: 17.JAN.2020 05:54:07

4.8.2.91 11N40MIMO_134 ANT 1



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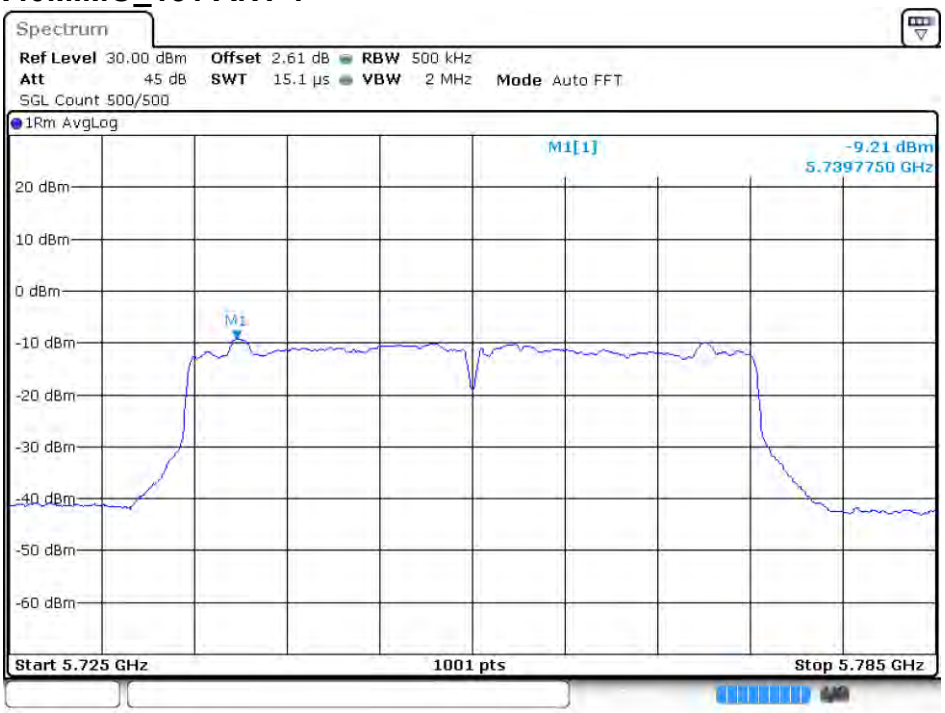
4.8.2.92 11N40MIMO_134 ANT 2

Date: 17 JAN.2020 05:55:12

4.8.2.93 11N40MIMO_151 ANT 1



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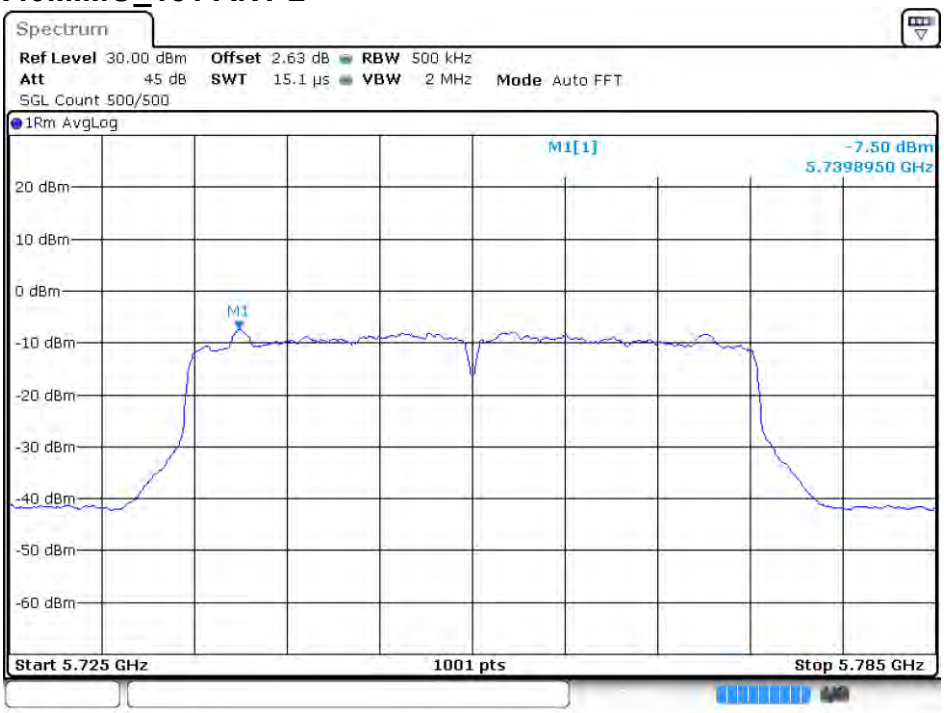
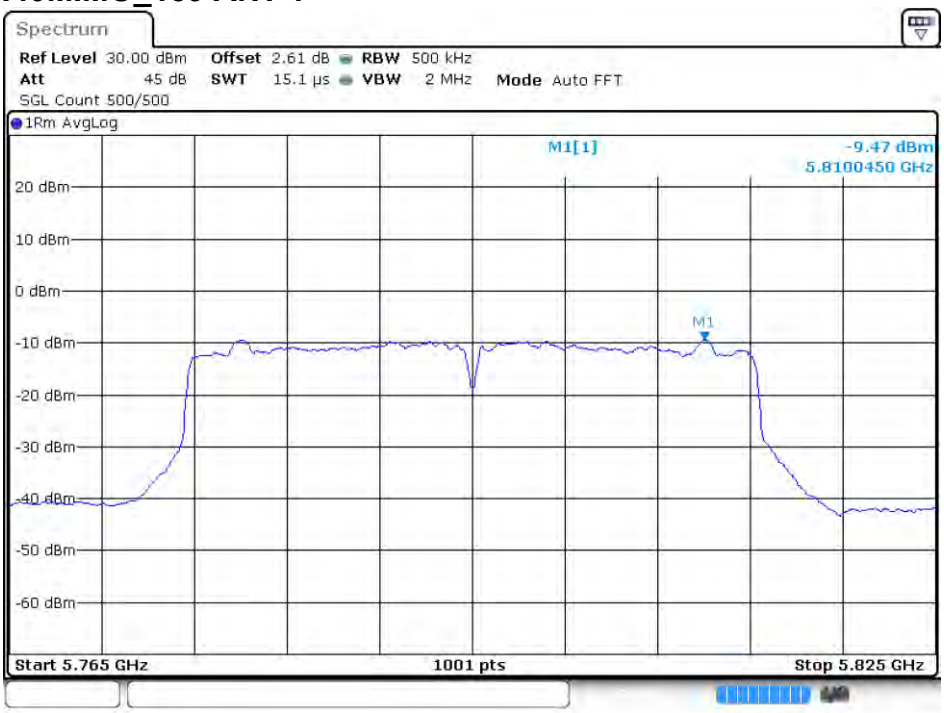
4.8.2.94 11N40MIMO_151 ANT 2



Date: 17.JAN.2020 05:57:53

4.8.2.95 11N40MIMO_159 ANT 1



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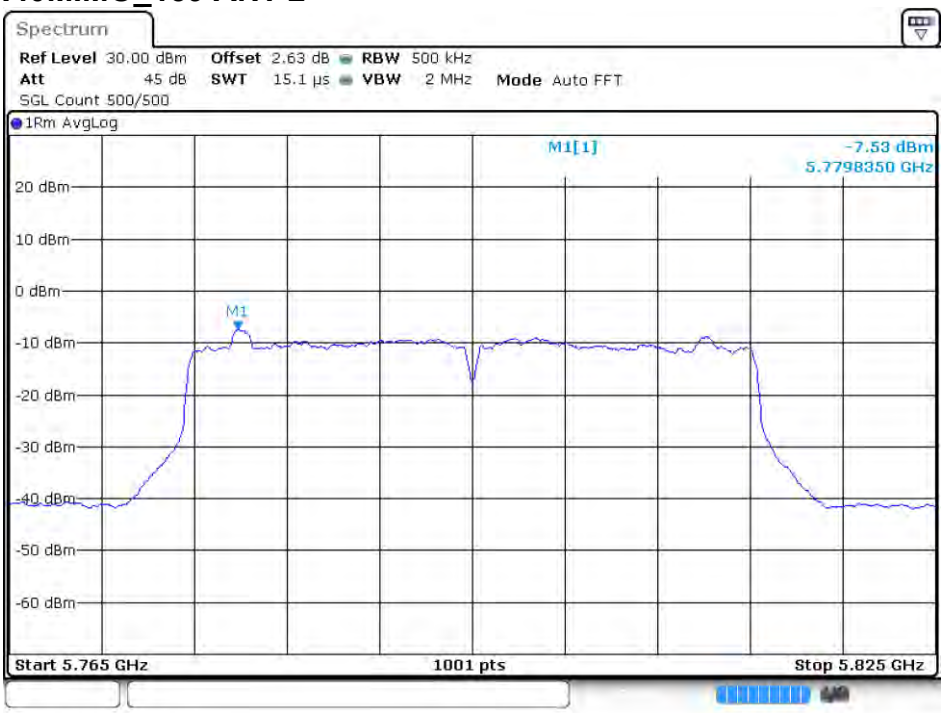
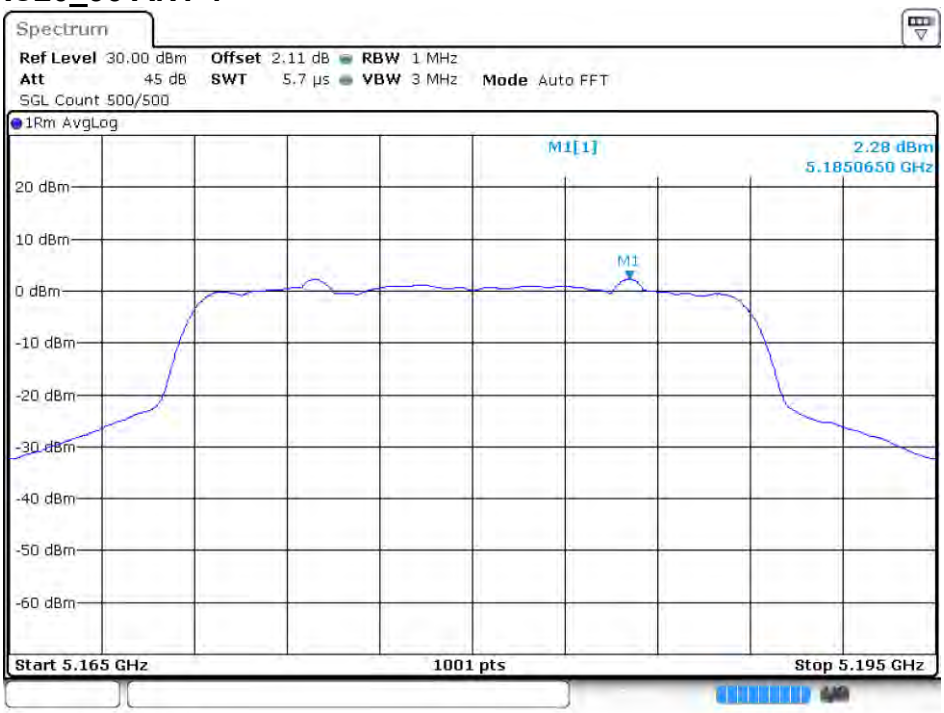
4.8.2.96 11N40MIMO_159 ANT 2



Date: 17.JAN.2020 05:59:54

4.8.2.97 11AC20_36 ANT 1



Date: 16.JAN.2020 12:05:25

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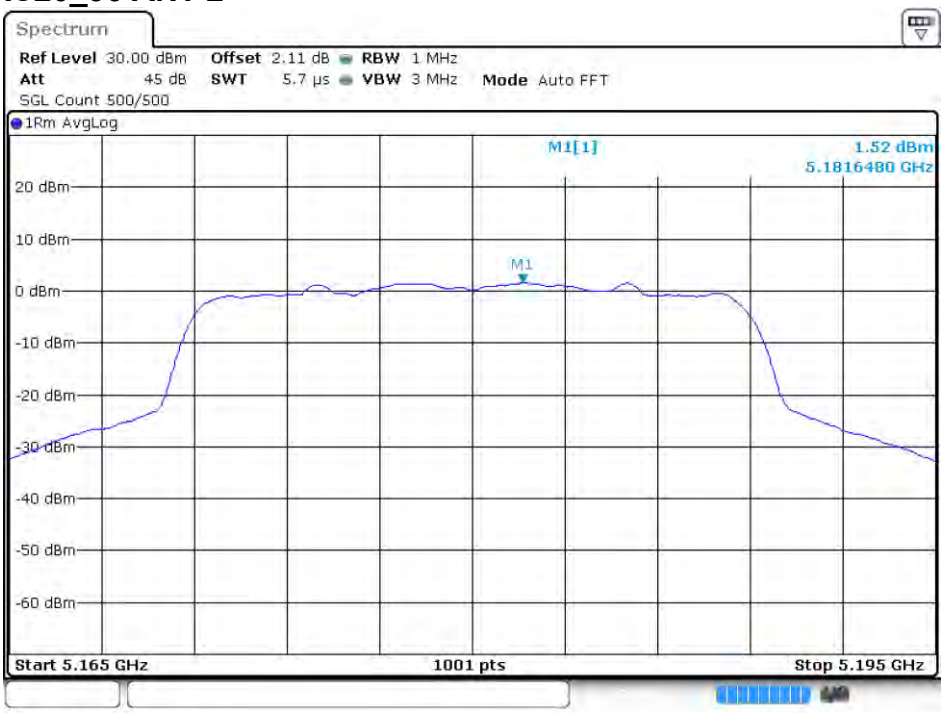
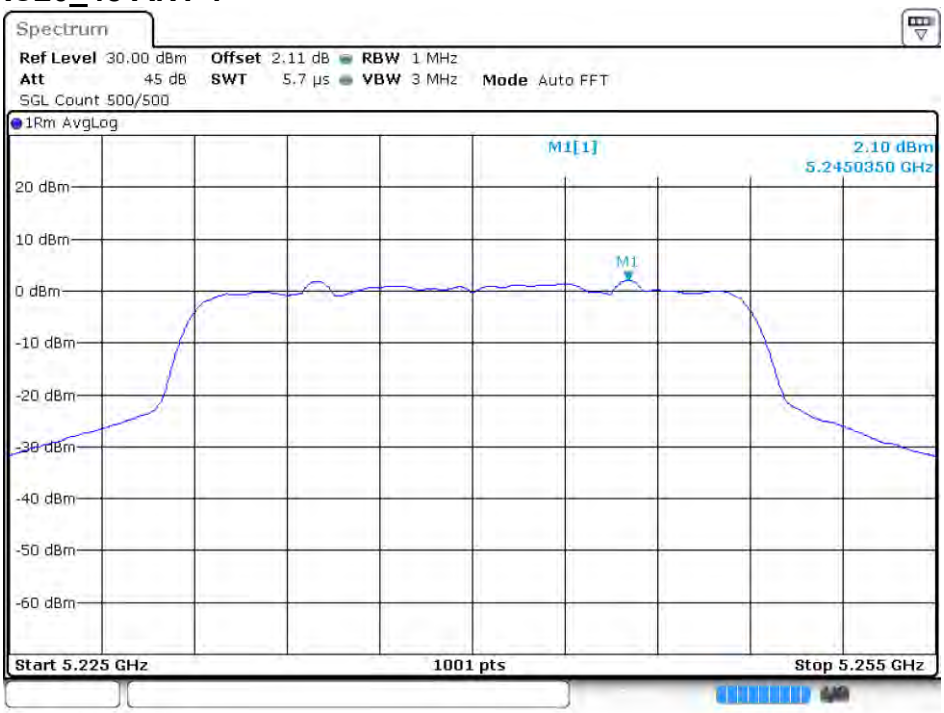
4.8.2.98 11AC20_36 ANT 2



Date: 16.JAN.2020 12:47:35

4.8.2.99 11AC20_48 ANT 1



Date: 16.JAN.2020 12:05:59

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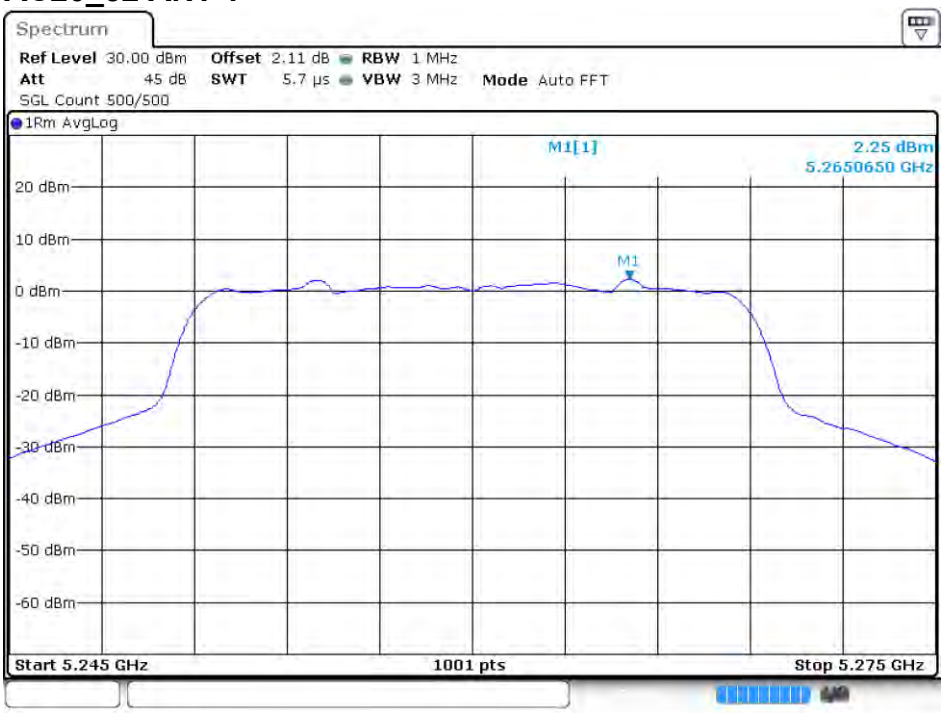
4.8.2.100 11AC20_48 ANT 2

Date: 16.JAN.2020 12:49:07

4.8.2.101 11AC20_52 ANT 1



Date: 16.JAN.2020 12:06:49

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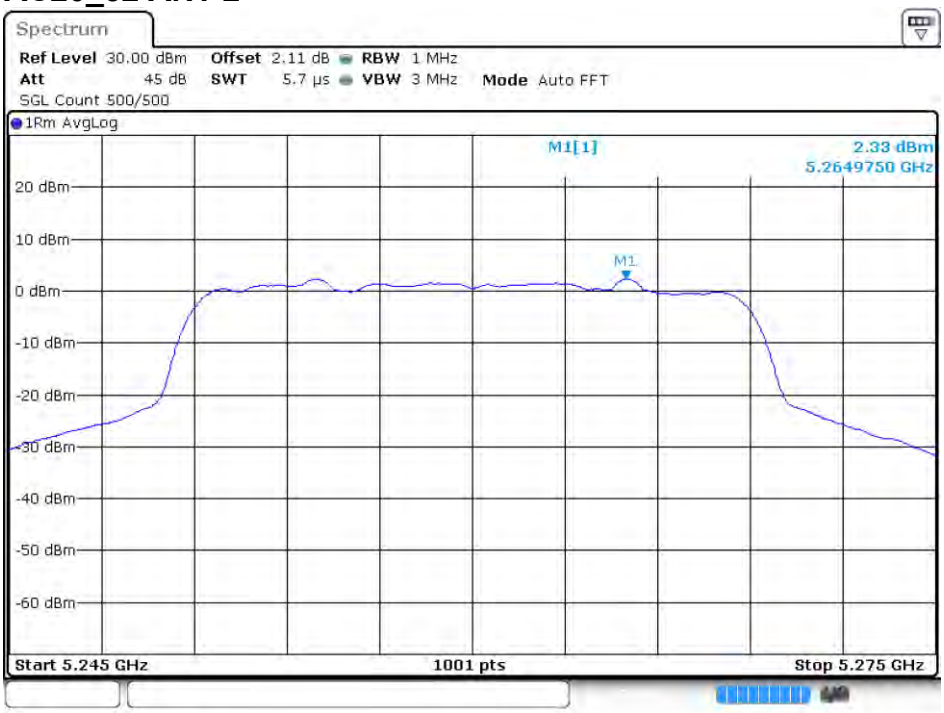
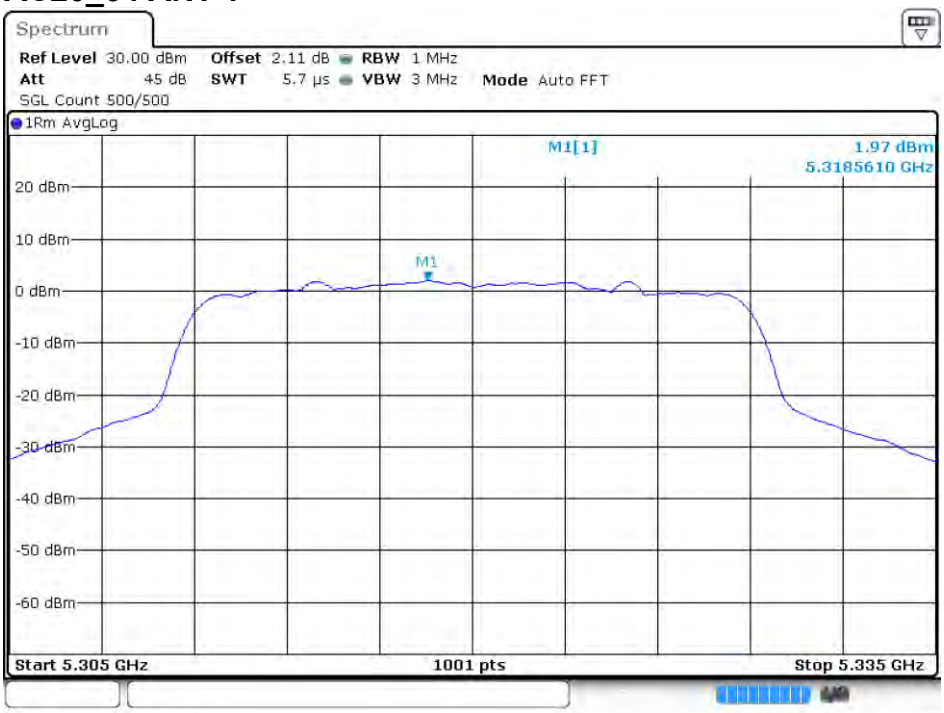
4.8.2.102 11AC20_52 ANT 2



Date: 16.JAN.2020 12:49:58

4.8.2.103 11AC20_64 ANT 1



Date: 16.JAN.2020 12:07:27

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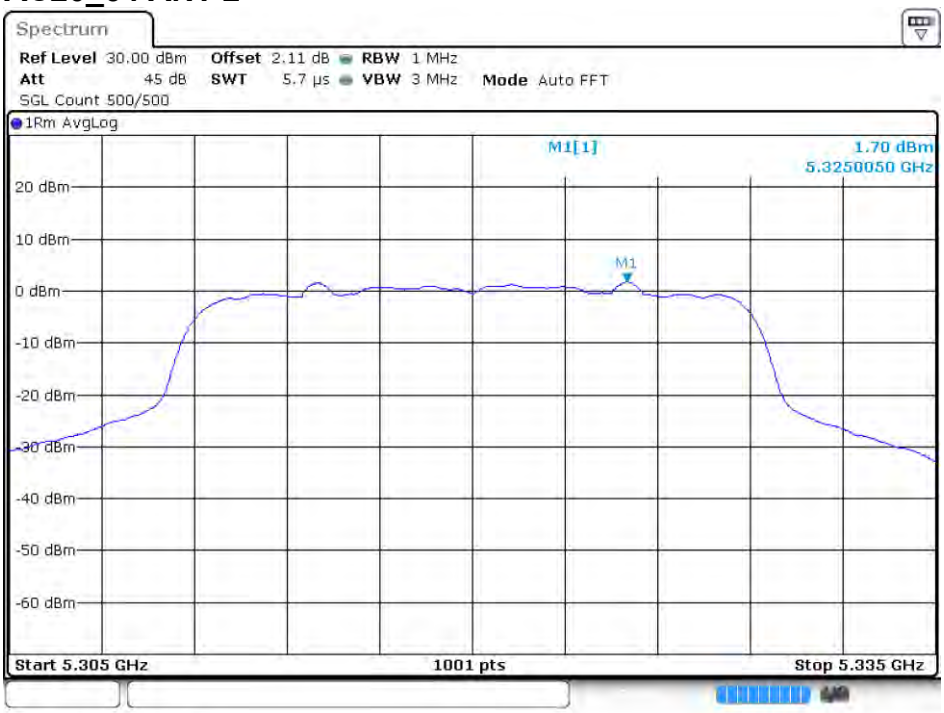
4.8.2.104 11AC20_64 ANT 2



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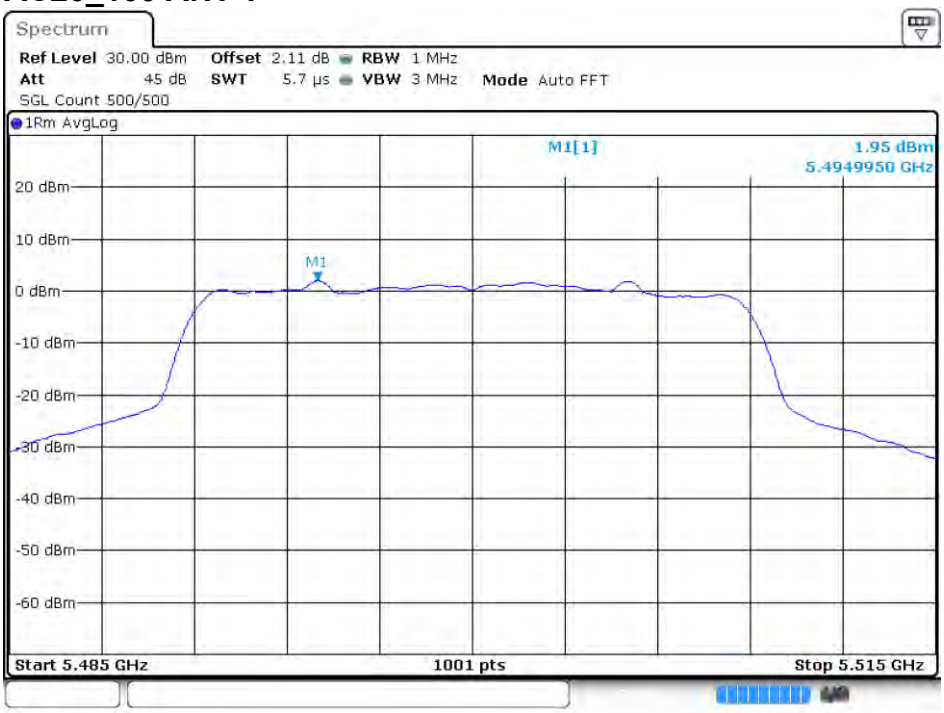
4.8.2.105 11AC20_100 ANT 1



Date: 16.JAN.2020 12:08:26

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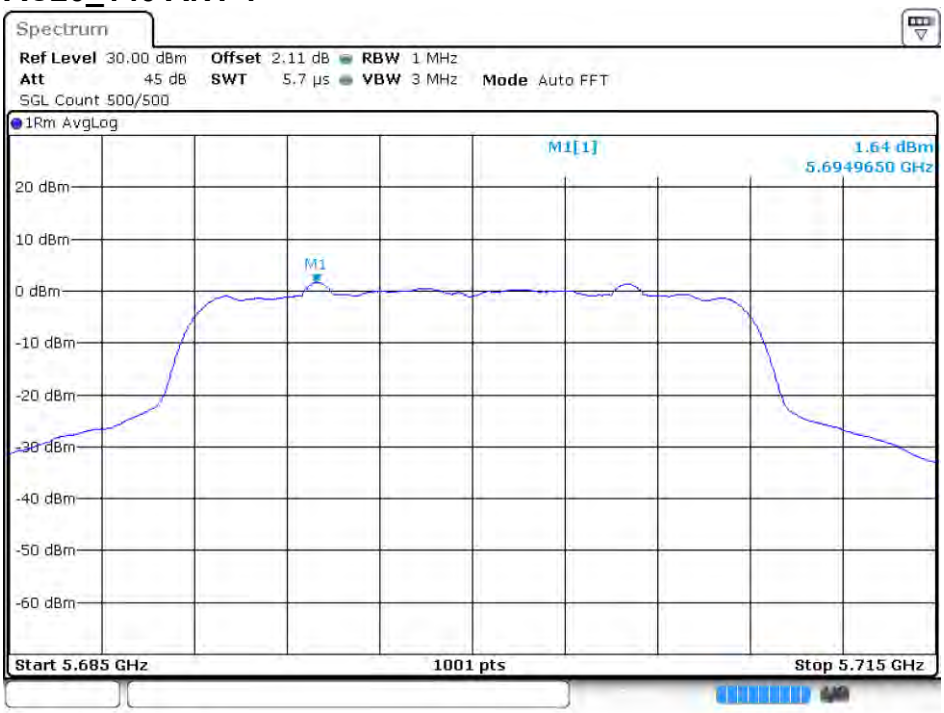
4.8.2.106 11AC20_100 ANT 2

Date: 16.JAN.2020 12:51:37

4.8.2.107 11AC20_140 ANT 1



Date: 16.JAN.2020 12:09:08

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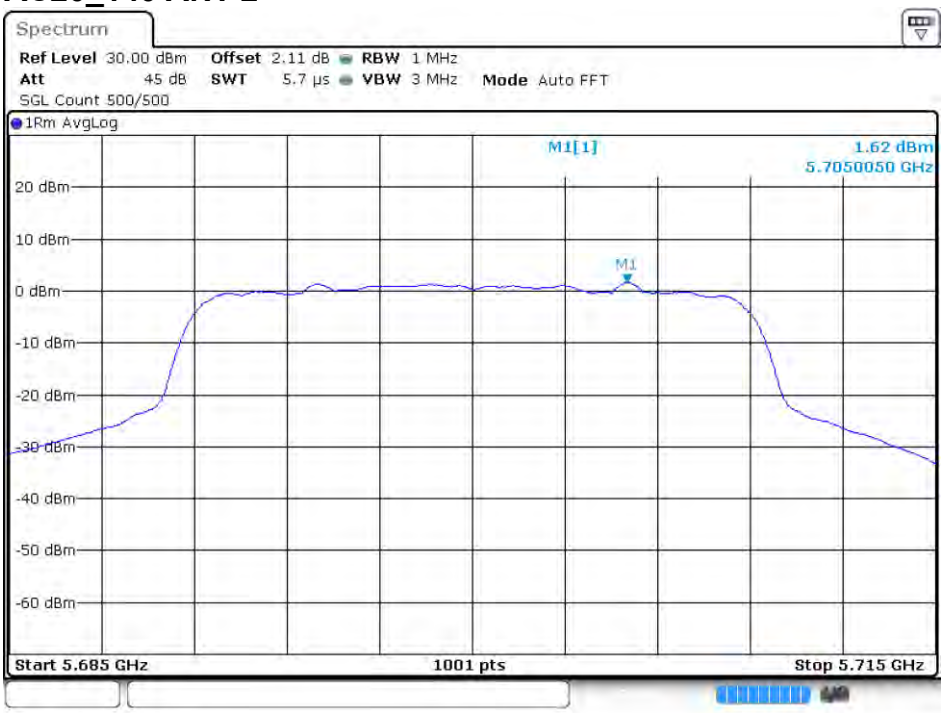
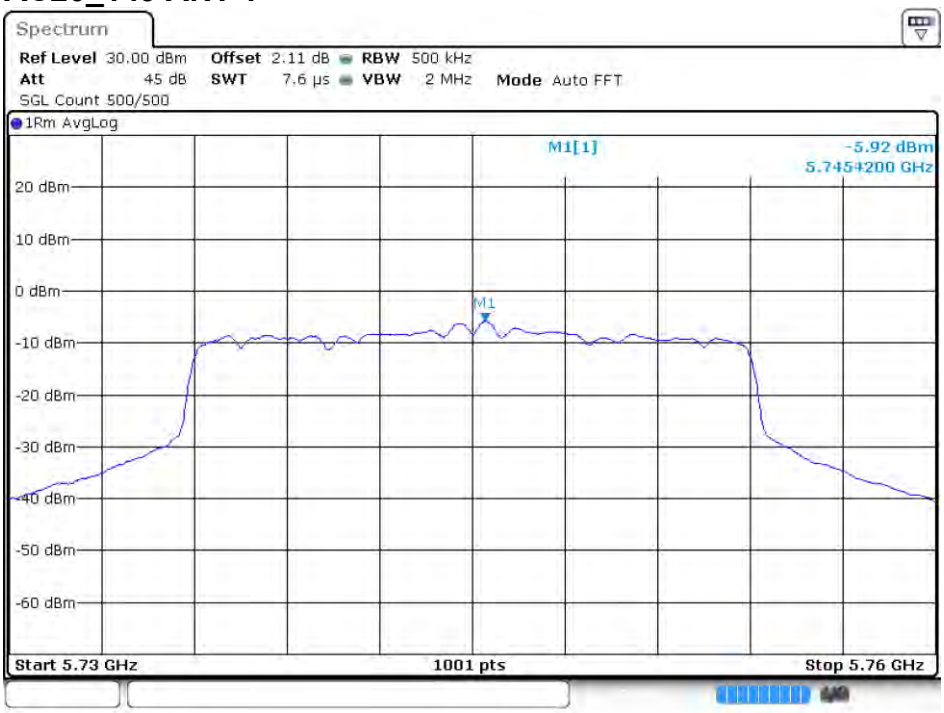
4.8.2.108 11AC20_140 ANT 2



Date: 16.JAN.2020 12:52:17

4.8.2.109 11AC20_149 ANT 1



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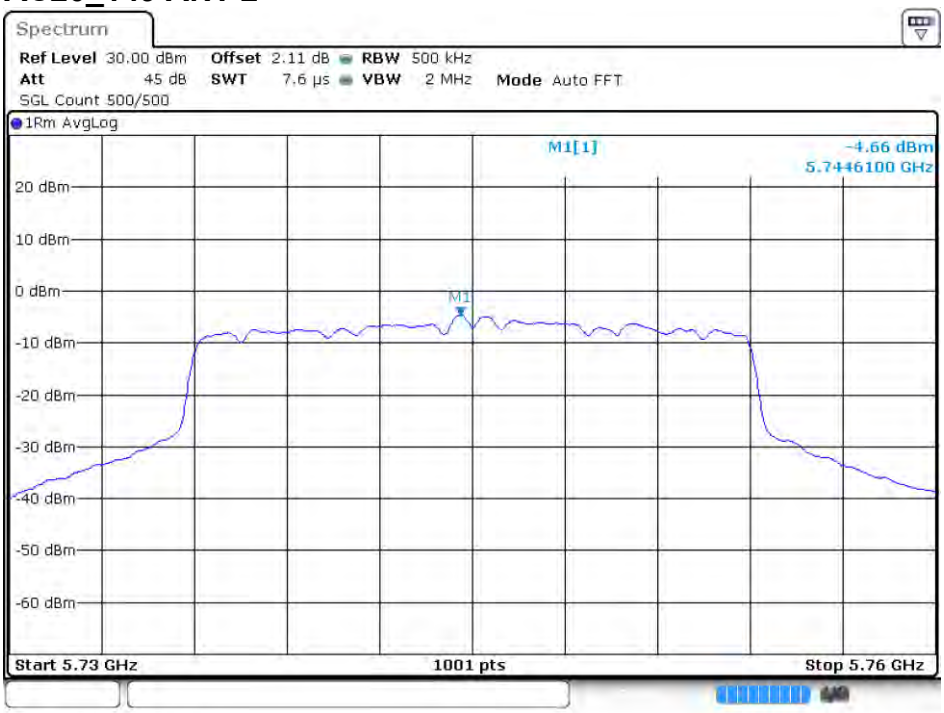
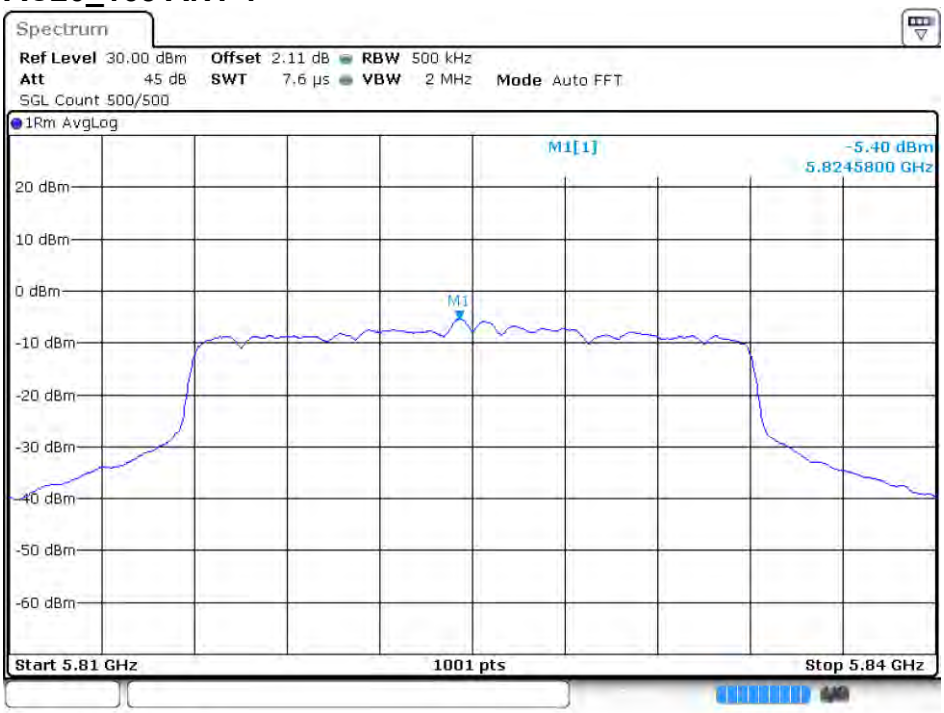


Date: 16.JAN.2020 12:53:13

4.8.2.111 11AC20_165 ANT 1



Date: 16.JAN.2020 12:11:03

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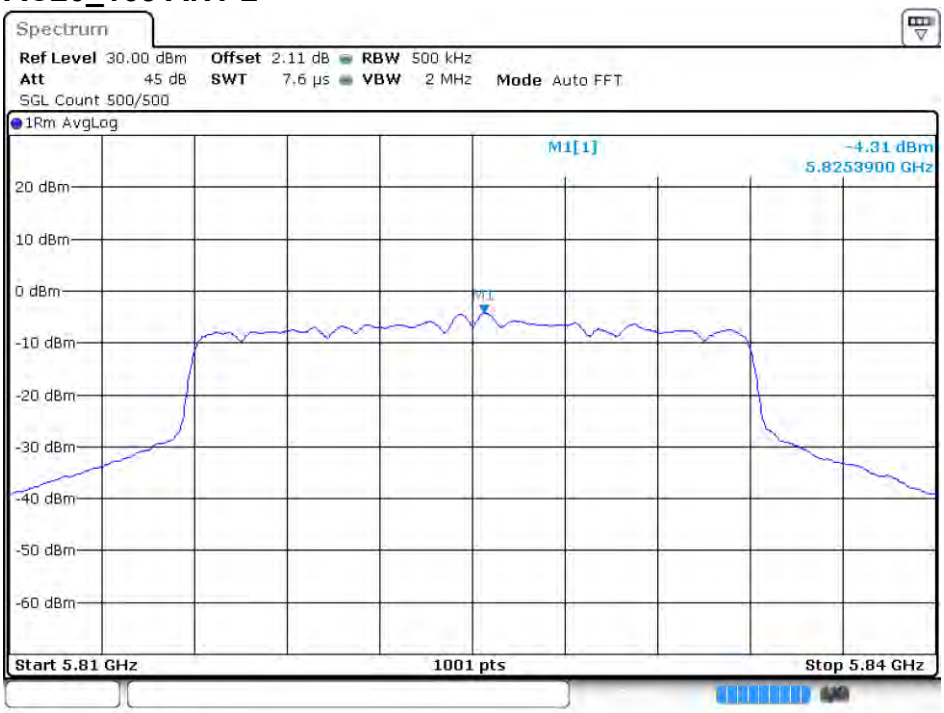
4.8.2.112 11AC20_165 ANT 2



Date: 16.JAN.2020 12:54:03

4.8.2.113 11AC20MIMO_36 ANT 1

Date: 17 JAN.2020 02:22:07

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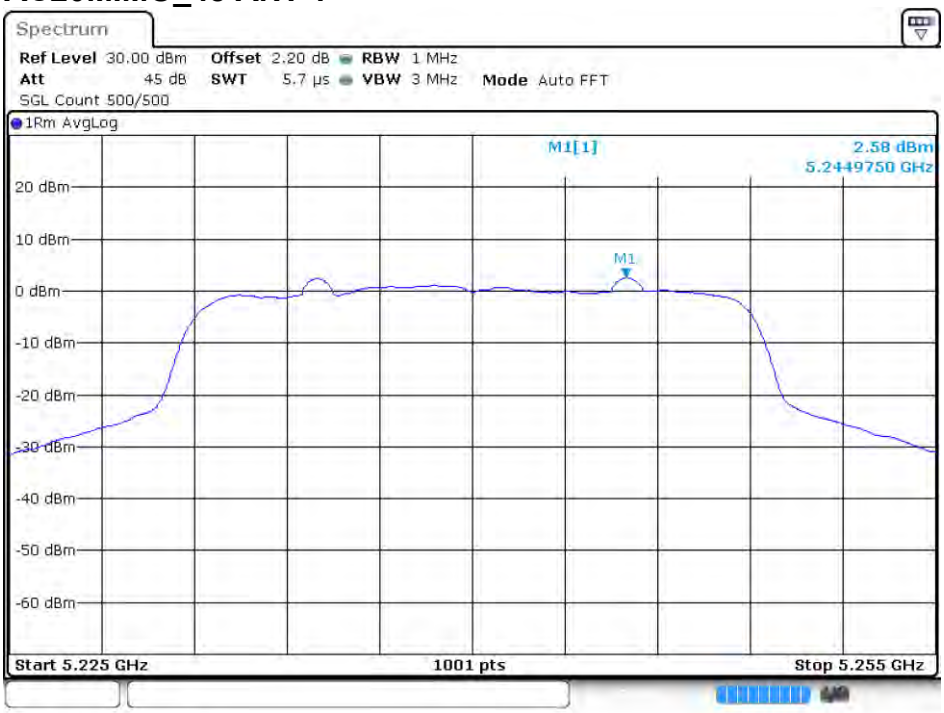
4.8.2.114 11AC20MIMO_36 ANT 2

Date: 17 JAN.2020 03:35:16

4.8.2.115 11AC20MIMO_48 ANT 1



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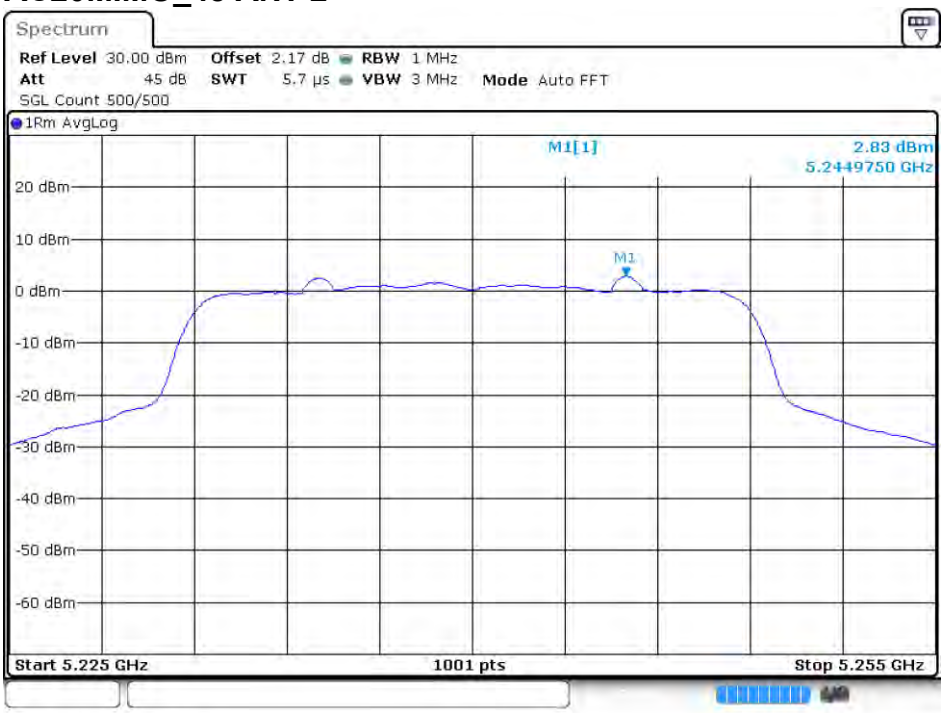
4.8.2.116 11AC20MIMO_48 ANT 2



Date: 17 JAN.2020 03:36:01

4.8.2.117 11AC20MIMO_52 ANT 1

Date: 17 JAN.2020 02:24:44

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4.8.2.118 11AC20MIMO_52 ANT 2

Date: 17 JAN.2020 03:37:19

4.8.2.119 11AC20MIMO_64 ANT 1

Date: 17 JAN.2020 02:25:17

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4.8.2.120 11AC20MIMO_64 ANT 2

Date: 17 JAN.2020 03:39:16

4.8.2.121 11AC20MIMO_100 ANT 1

Date: 17 JAN.2020 02:26:46

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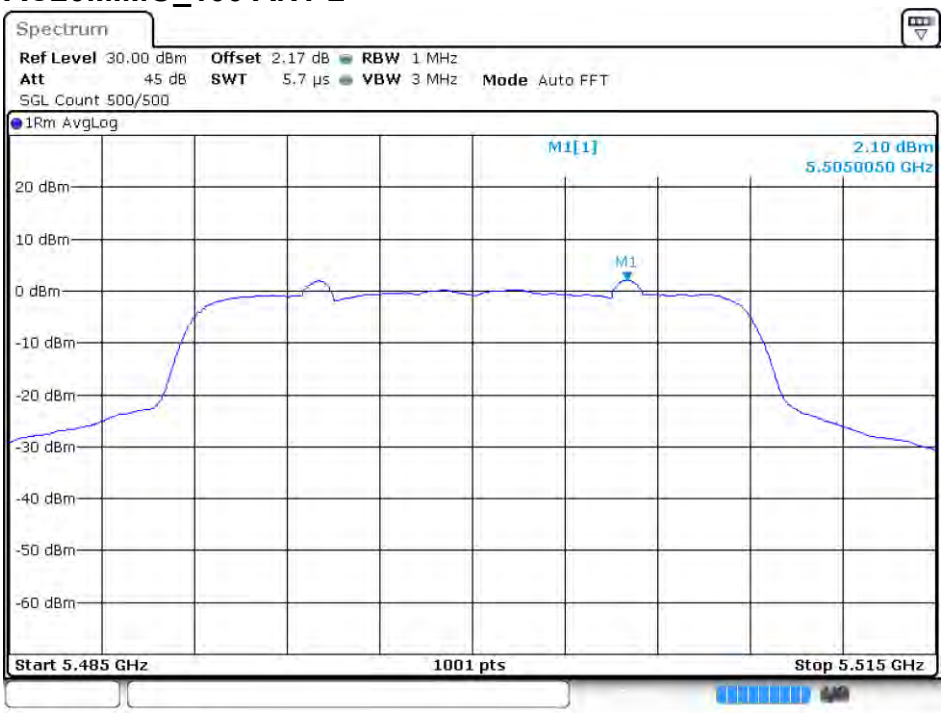
4.8.2.122 11AC20MIMO_100 ANT 2



Date: 17 JAN.2020 03:40:35

4.8.2.123 11AC20MIMO_140 ANT 1

Date: 17 JAN.2020 02:28:35

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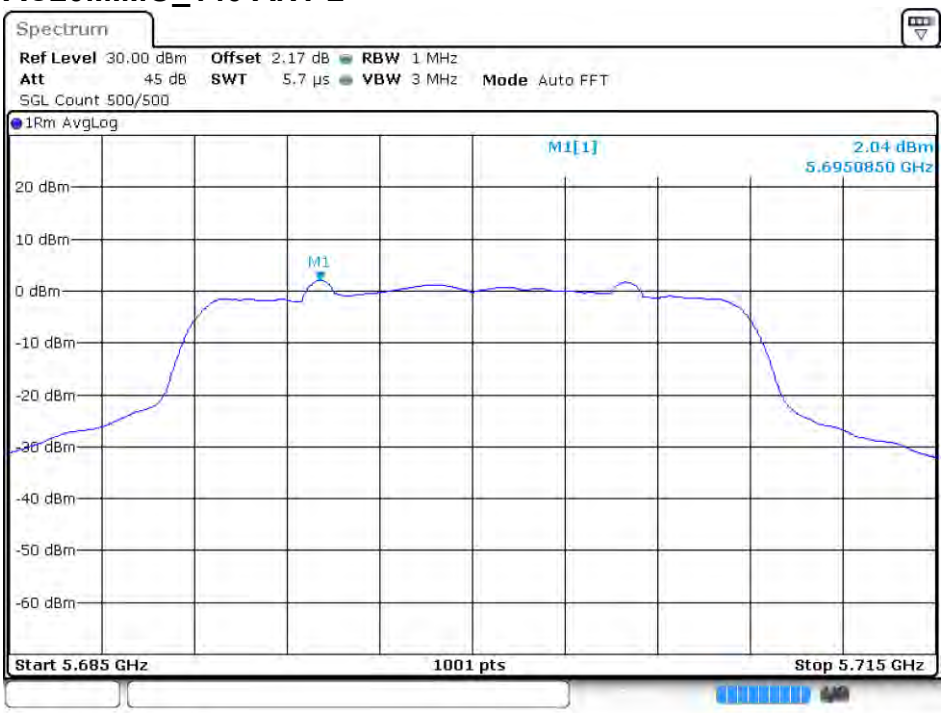
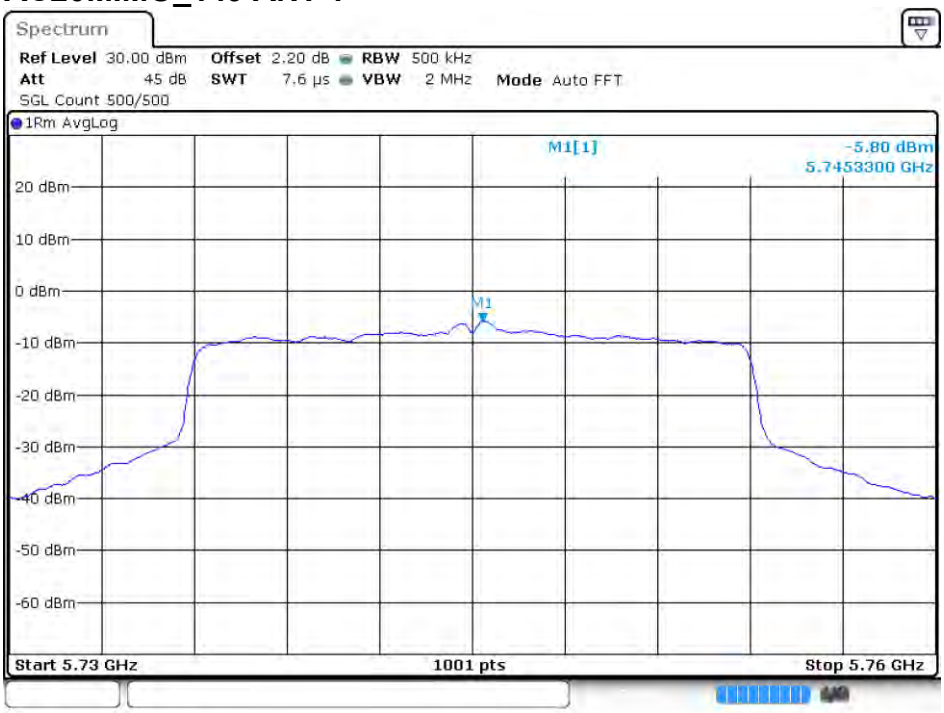
4.8.2.124 11AC20MIMO_140 ANT 2



Date: 17 JAN.2020 03:41:51

4.8.2.125 11AC20MIMO_149 ANT 1



Date: 17 JAN.2020 02:30:00

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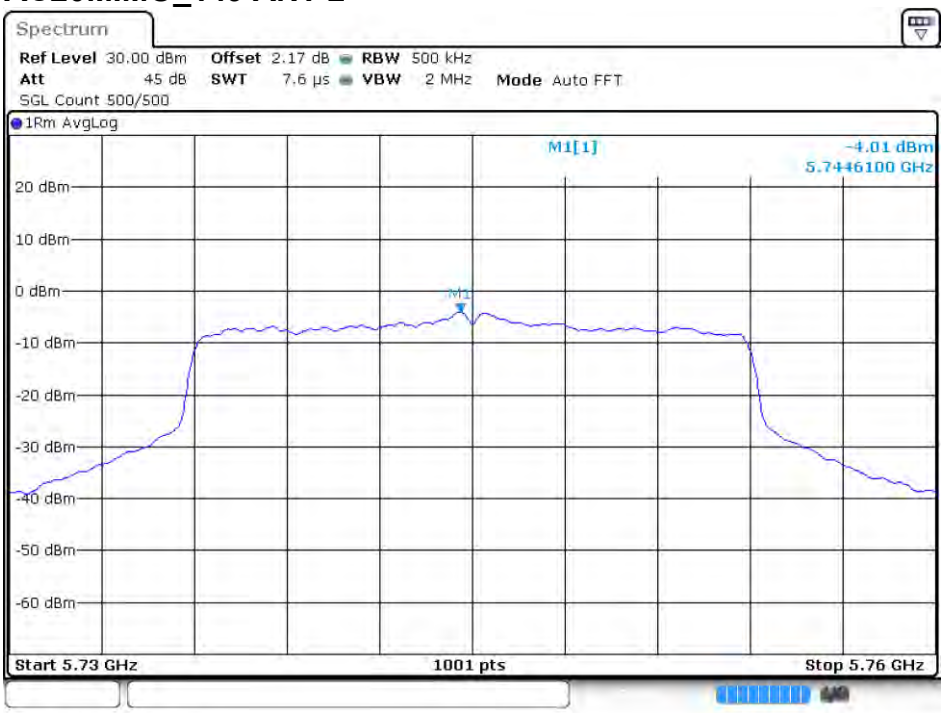
4.8.2.126 11AC20MIMO_149 ANT 2



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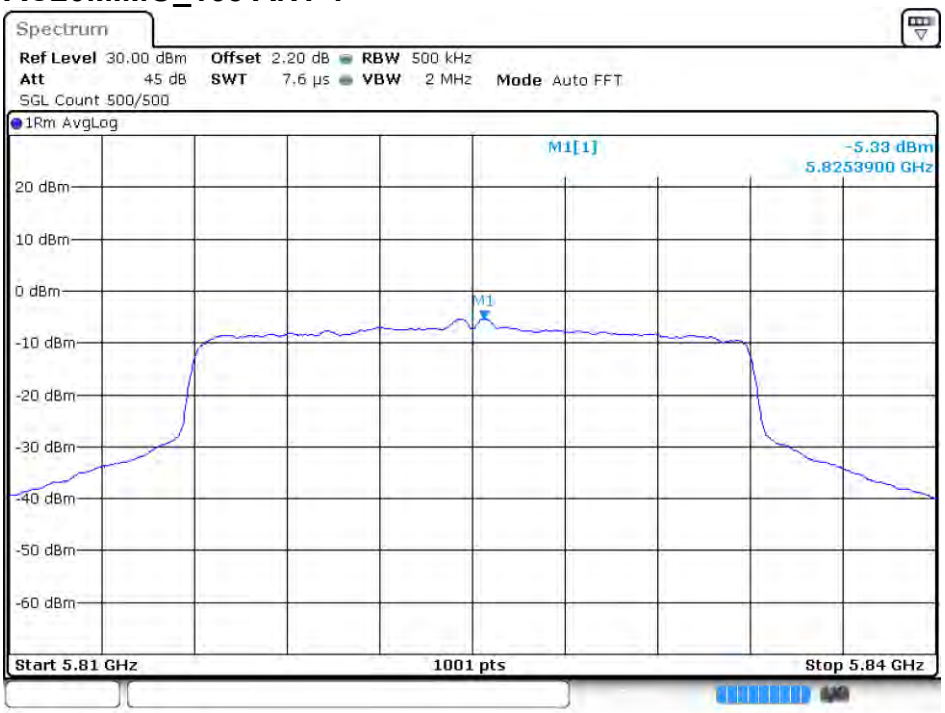
4.8.2.127 11AC20MIMO_165 ANT 1



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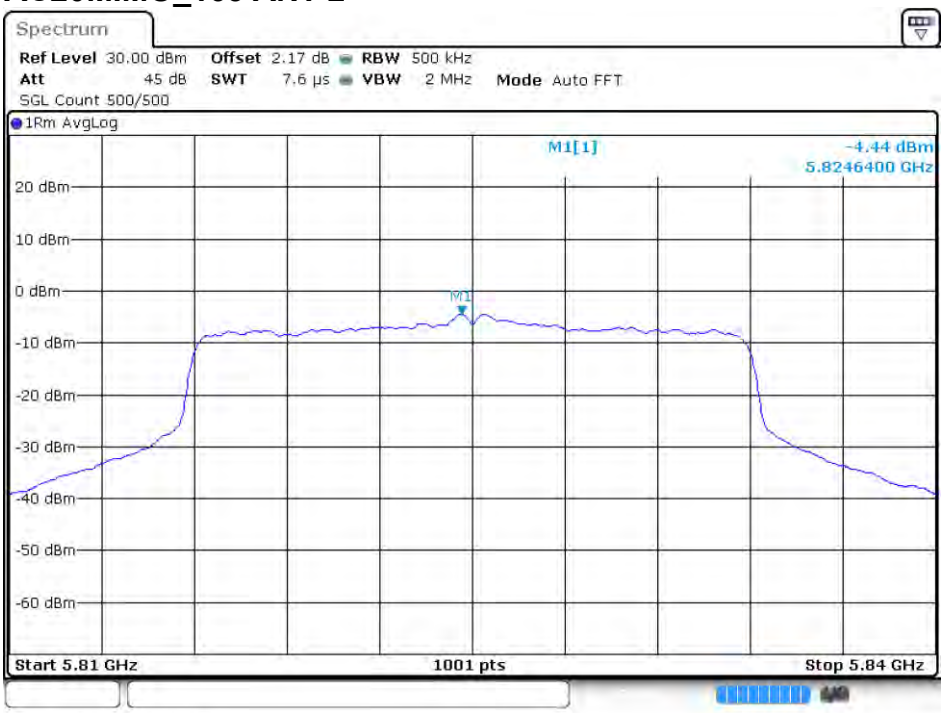
4.8.2.128 11AC20MIMO_165 ANT 2



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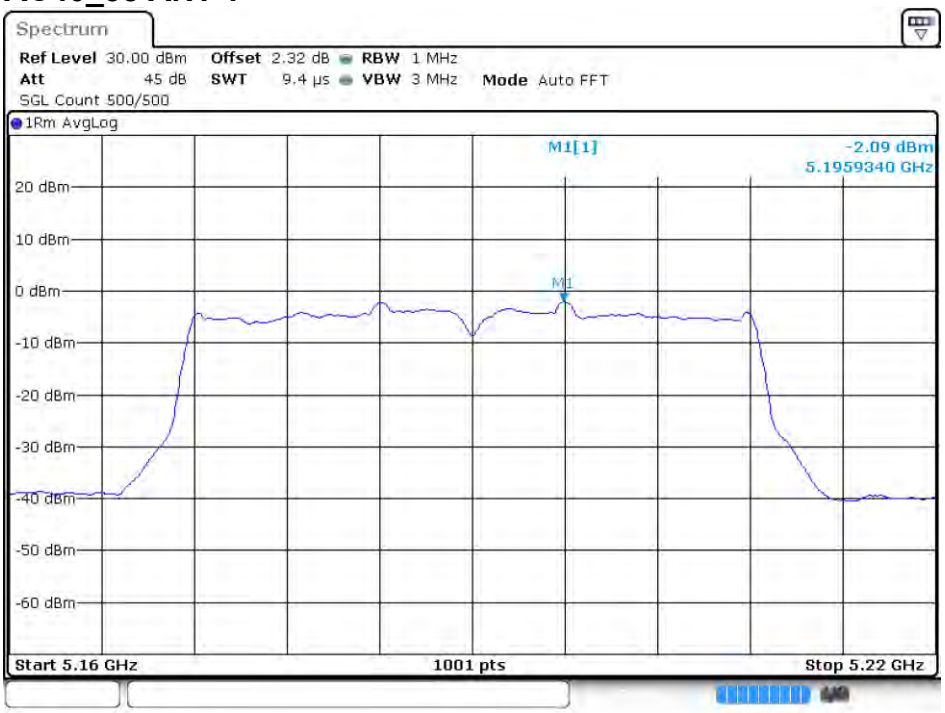
4.8.2.129 11AC40_38 ANT 1



Date: 17.JAN.2020 01:27:54

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4.8.2.130 11AC40_38 ANT 2

Date: 17.JAN.2020 00:42:02

4.8.2.131 11AC40_46 ANT 1

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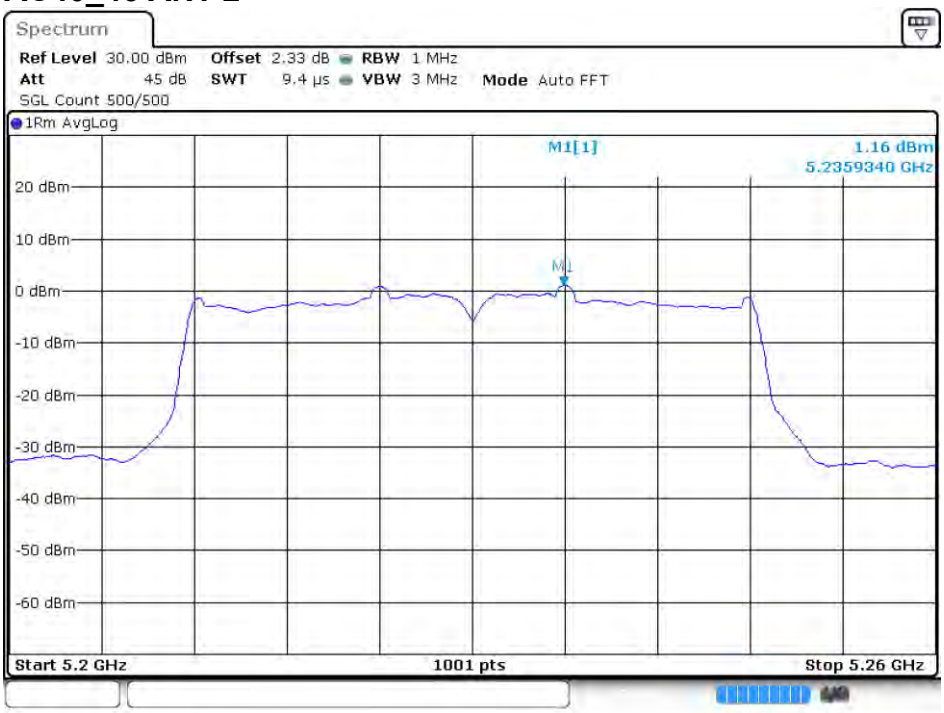
4.8.2.132 11AC40_46 ANT 2



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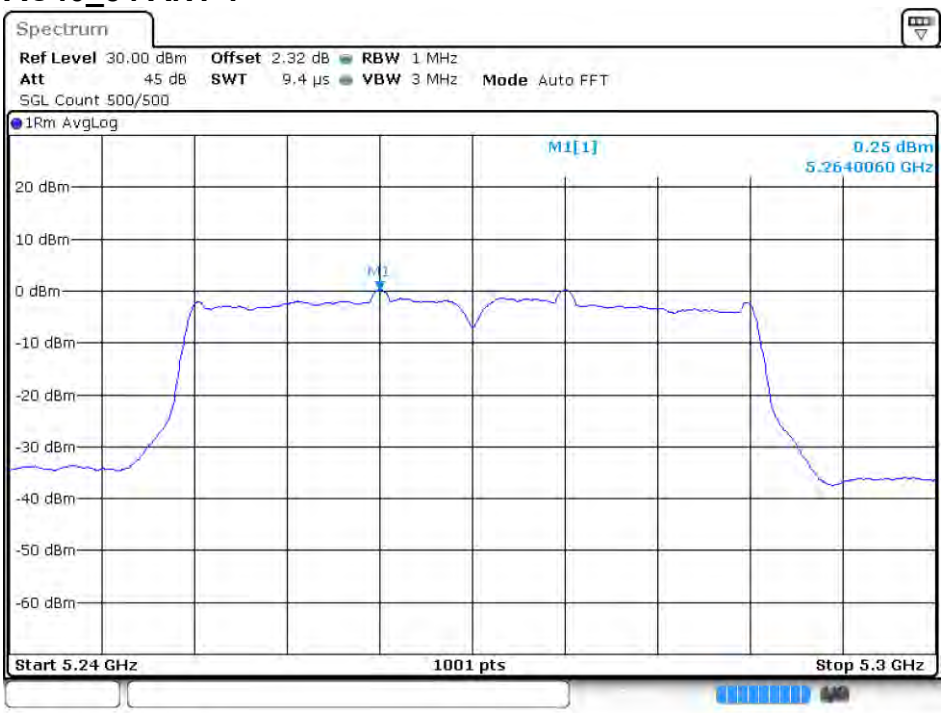
4.8.2.133 11AC40_54 ANT 1



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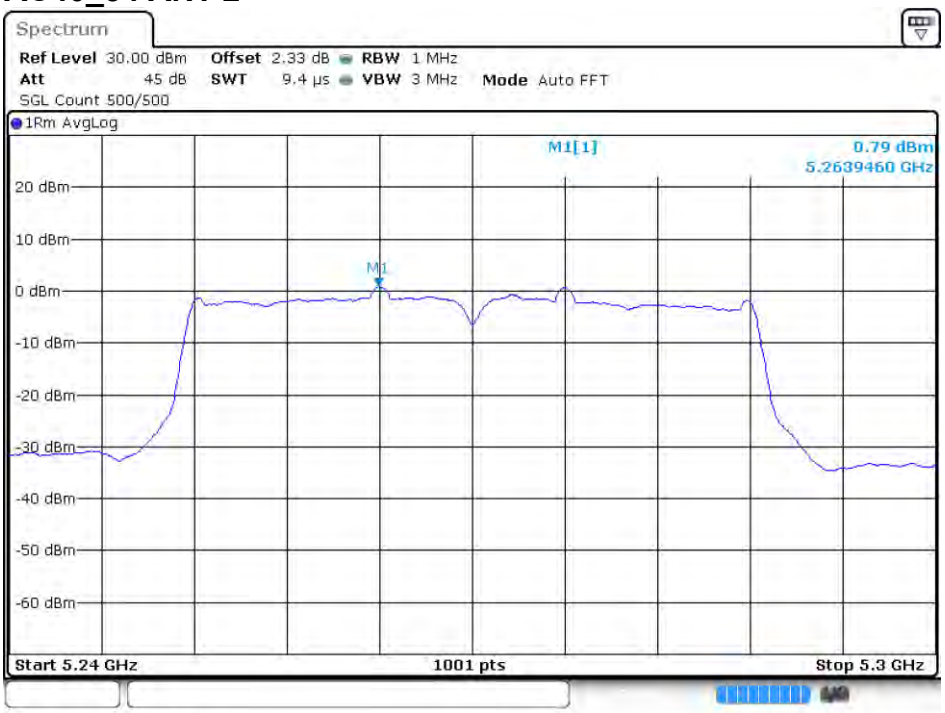
4.8.2.134 11AC40_54 ANT 2



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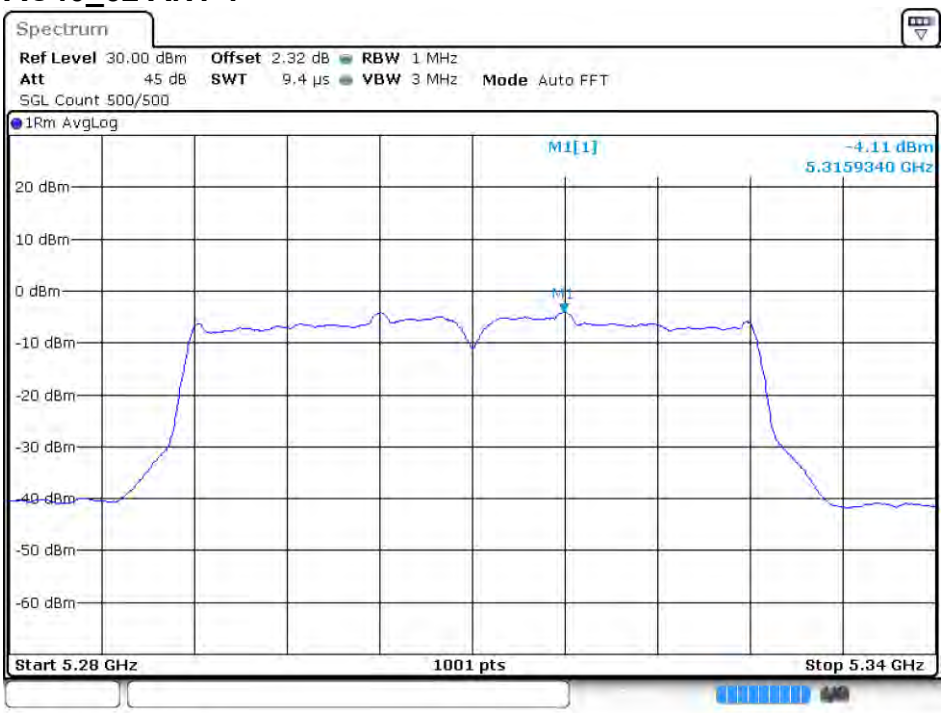

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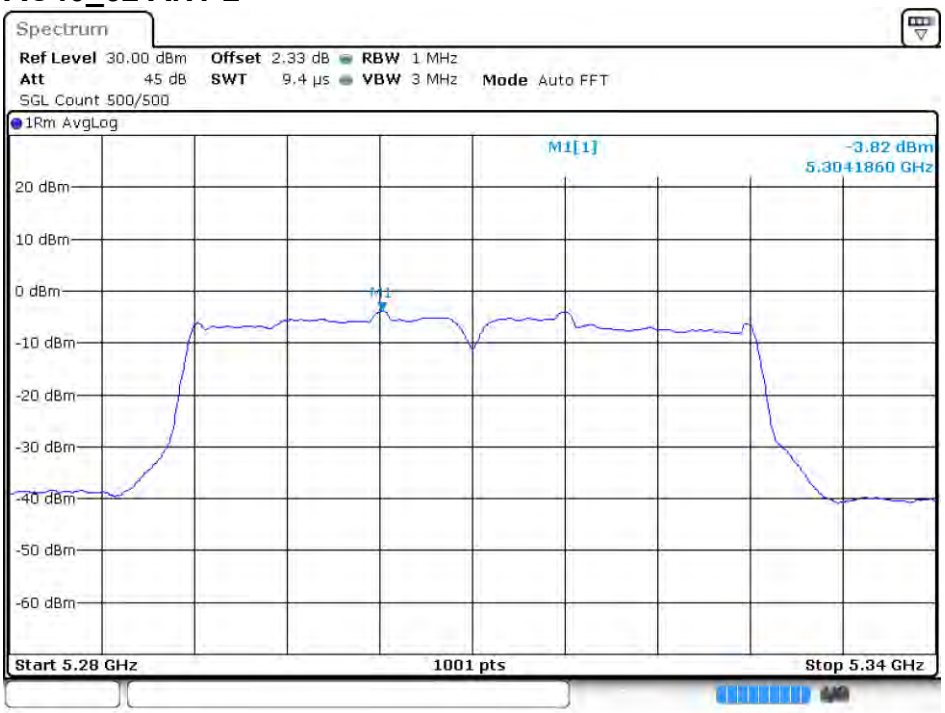

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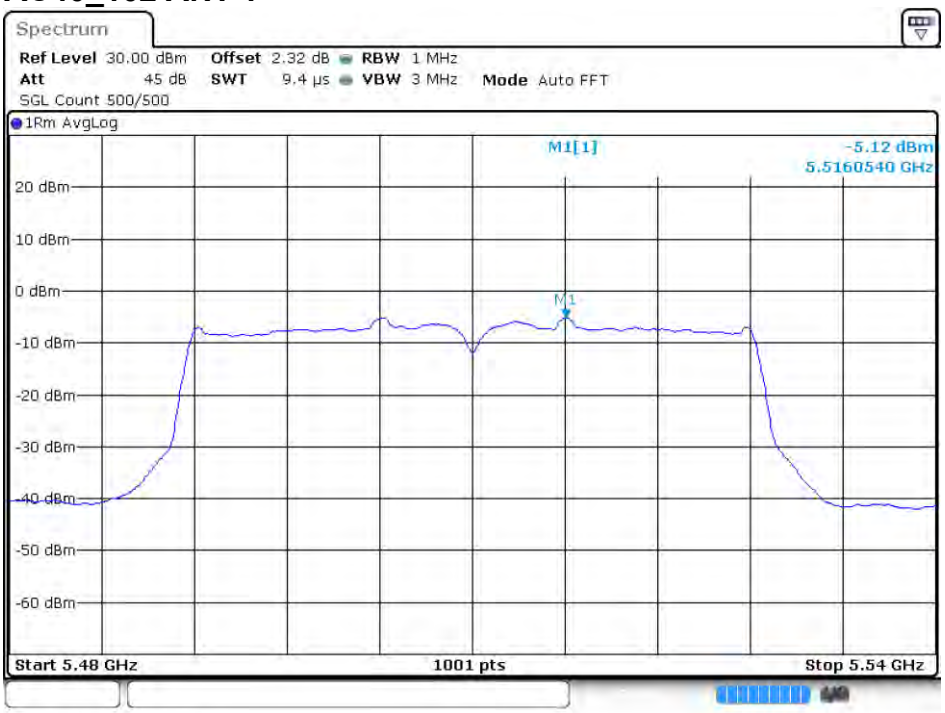

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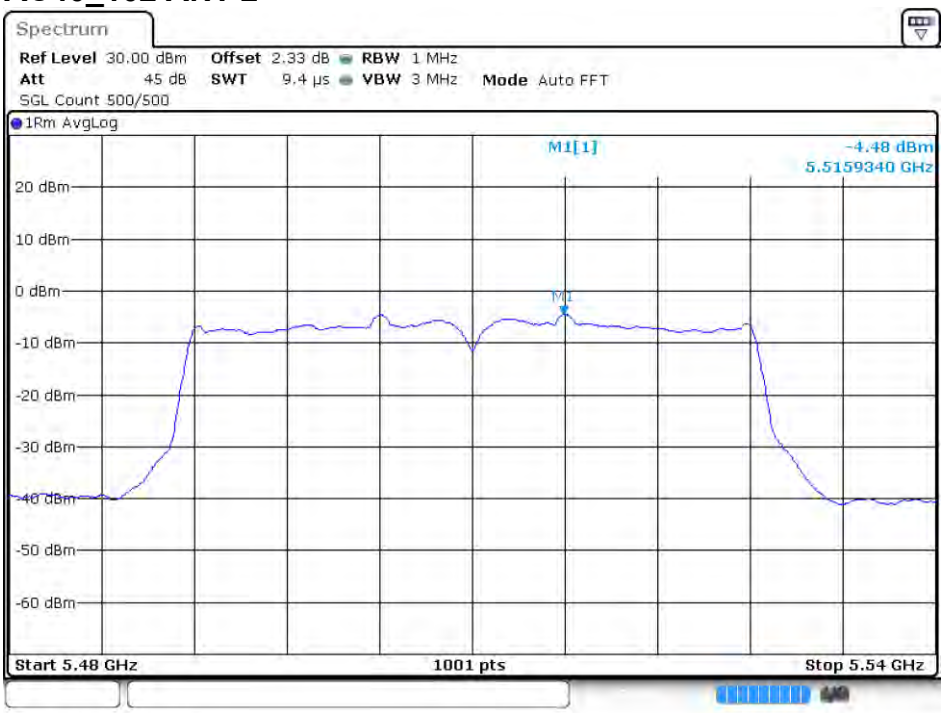
4.8.2.138 11AC40_102 ANT 2



Date: 17.JAN.2020 00:47:42

4.8.2.139 11AC40_134 ANT 1

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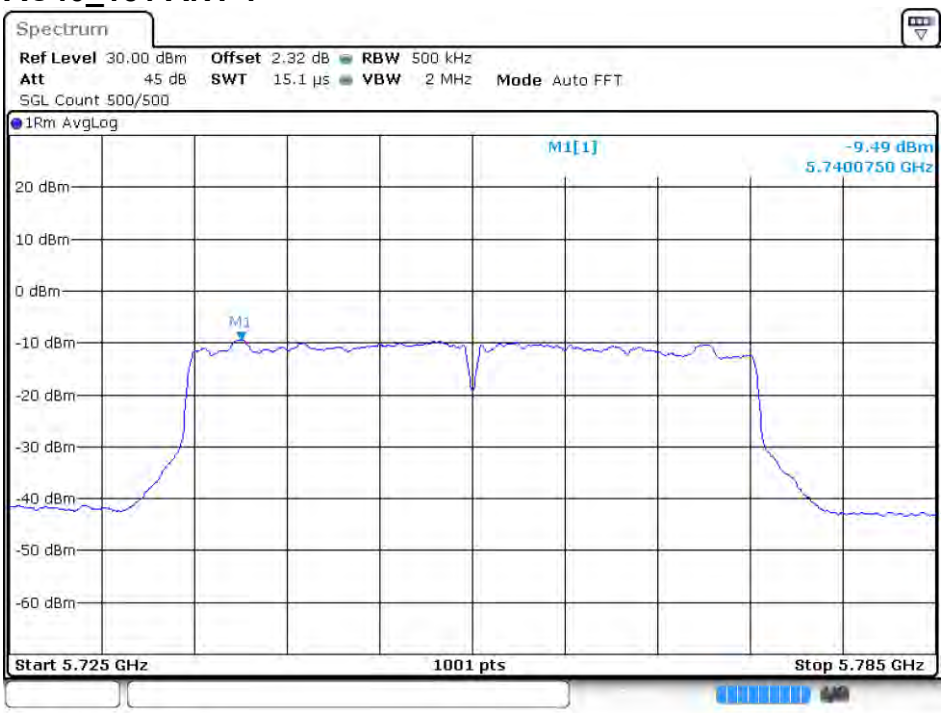
4.8.2.140 11AC40_134 ANT 2

Date: 17.JAN.2020 00:50:32

4.8.2.141 11AC40_151 ANT 1



Date: 17.JAN.2020 01:35:38

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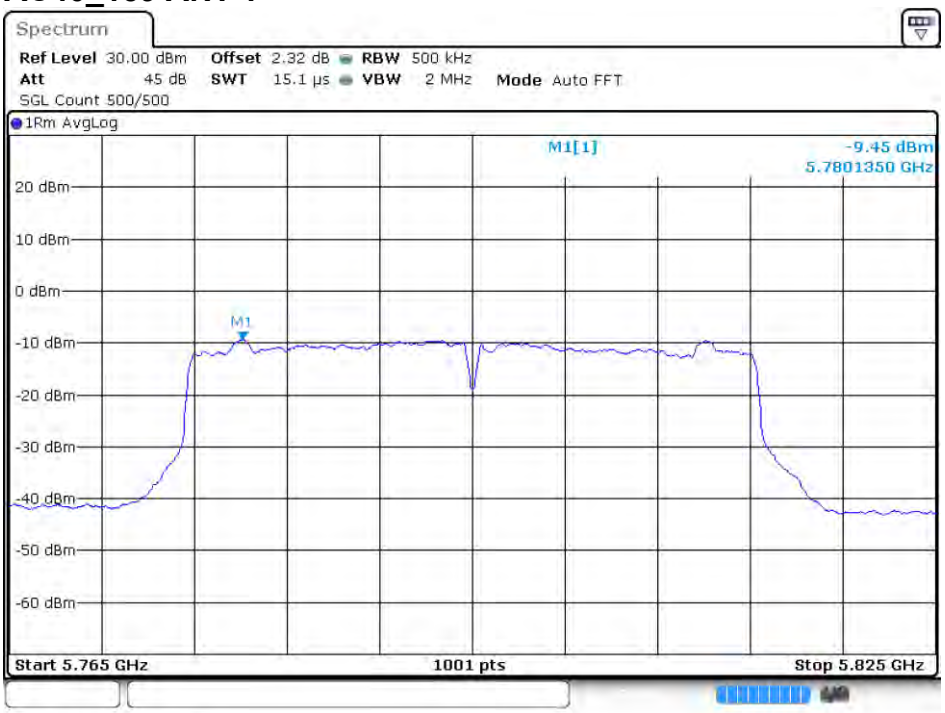
4.8.2.142 11AC40_151 ANT 2

Date: 17.JAN.2020 00:56:20

4.8.2.143 11AC40_159 ANT 1



Date: 17.JAN.2020 01:36:27

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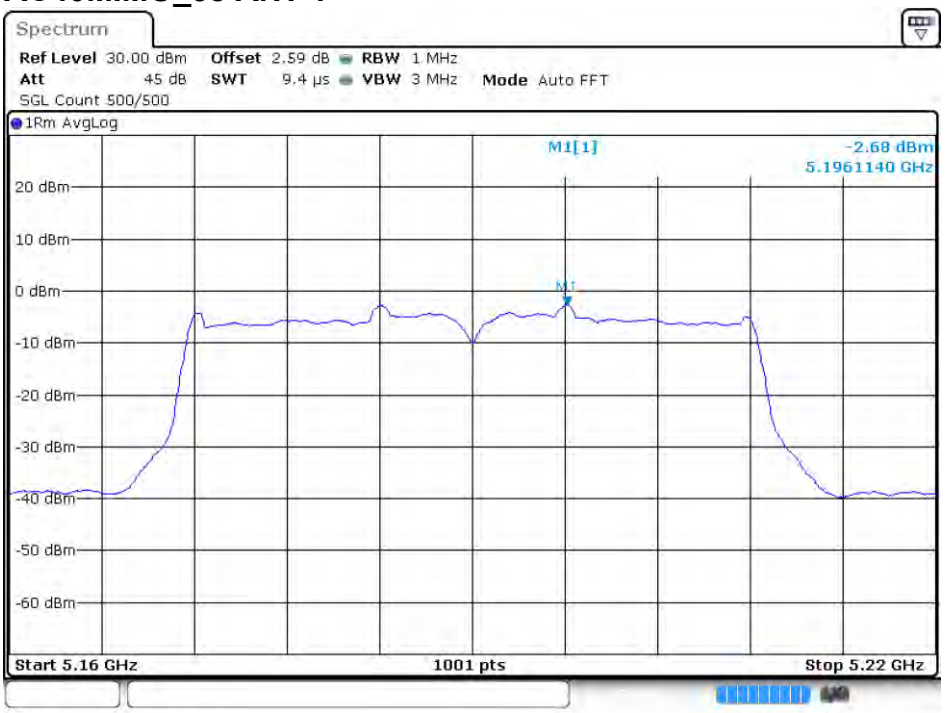
4.8.2.144 11AC40_159 ANT 2

Date: 17.JAN.2020 00:57:10

4.8.2.145 11AC40MIMO_38 ANT 1



Date: 17.JAN.2020 02:47:46

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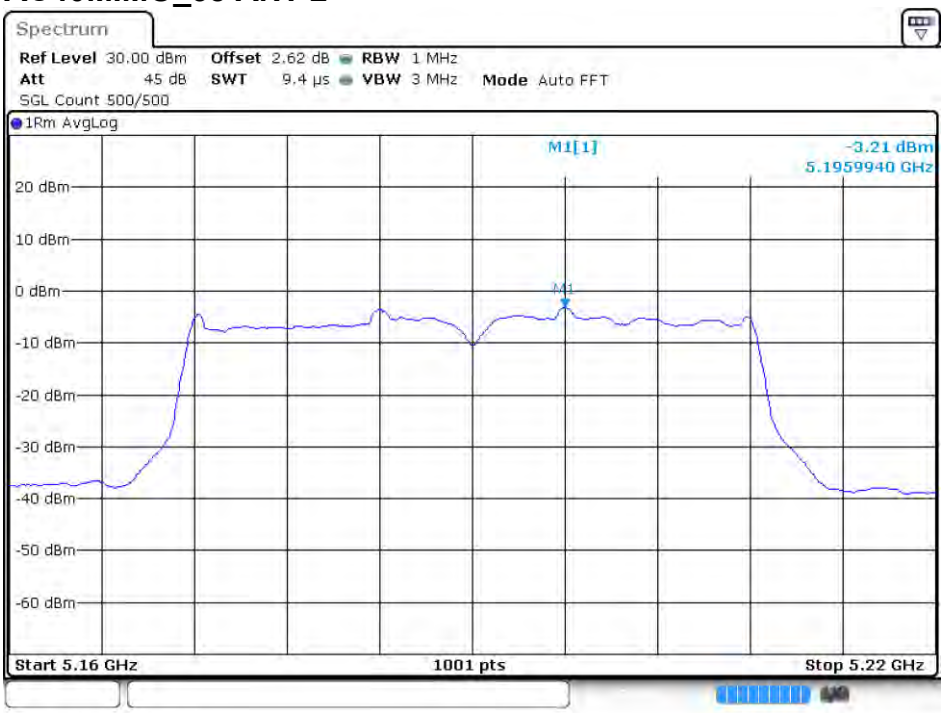
4.8.2.146 11AC40MIMO_38 ANT 2



Date: 17.JAN.2020 06:03:26

4.8.2.147 11AC40MIMO_46 ANT 1

Date: 17.JAN.2020 02:49:19

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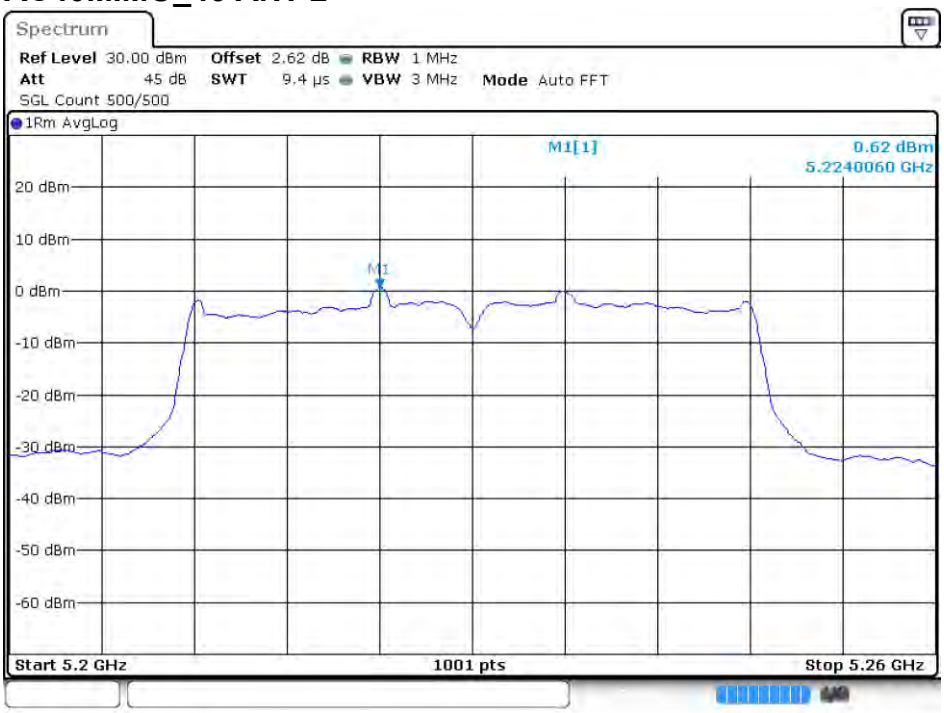
4.8.2.148 11AC40MIMO_46 ANT 2



Date: 17 JAN.2020 06:04:21

4.8.2.149 11AC40MIMO_54 ANT 1

Date: 17 JAN.2020 02:50:23

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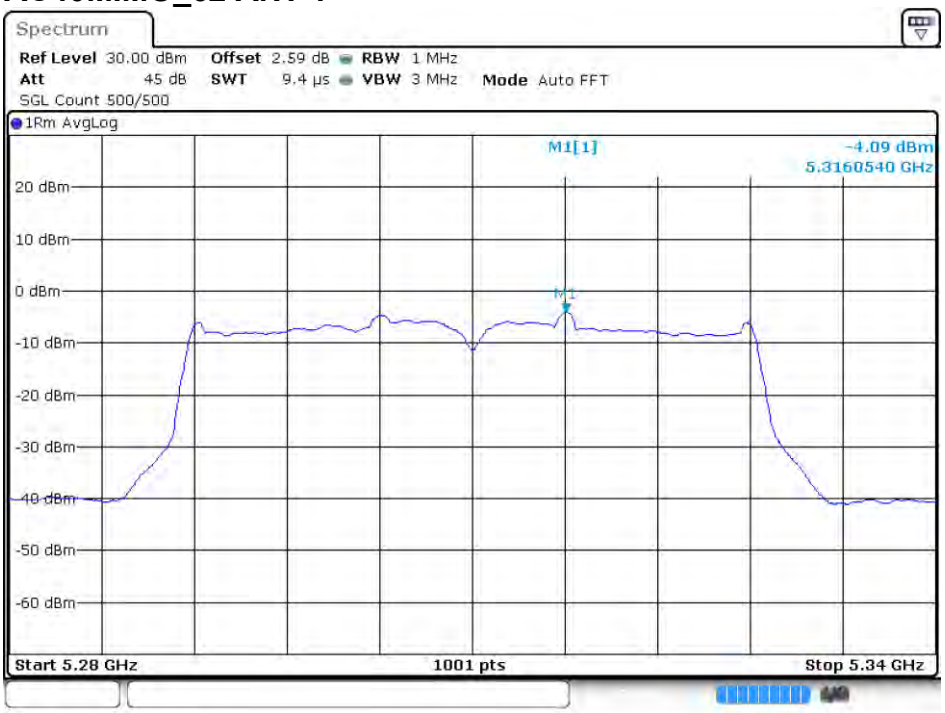
4.8.2.150 11AC40MIMO_54 ANT 2

Date: 17 JAN.2020 06:05:56

4.8.2.151 11AC40MIMO_62 ANT 1



Date: 17 JAN.2020 02:51:11

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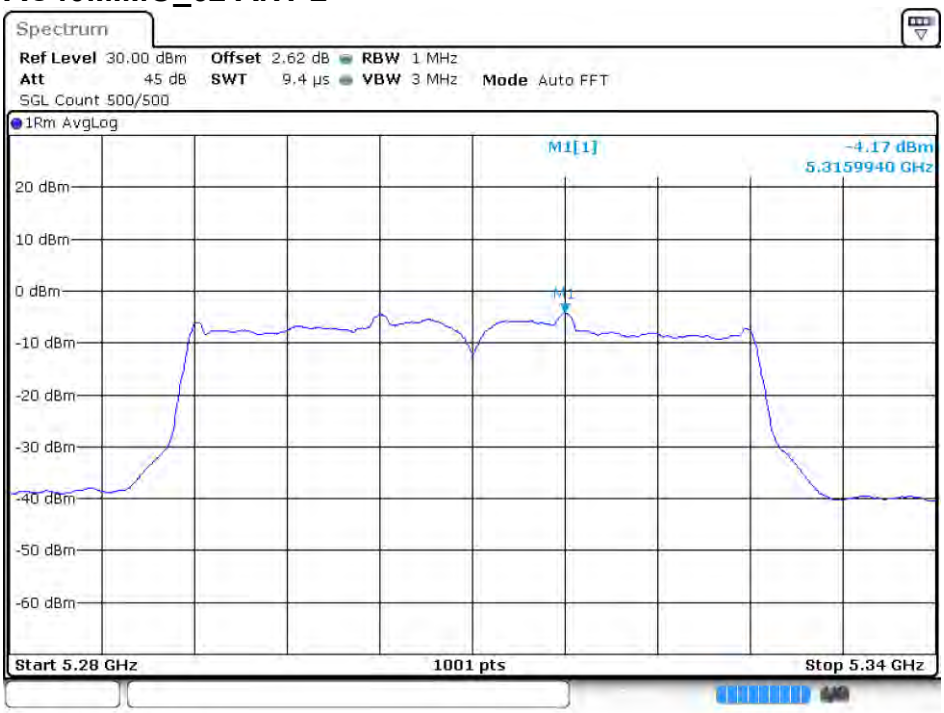
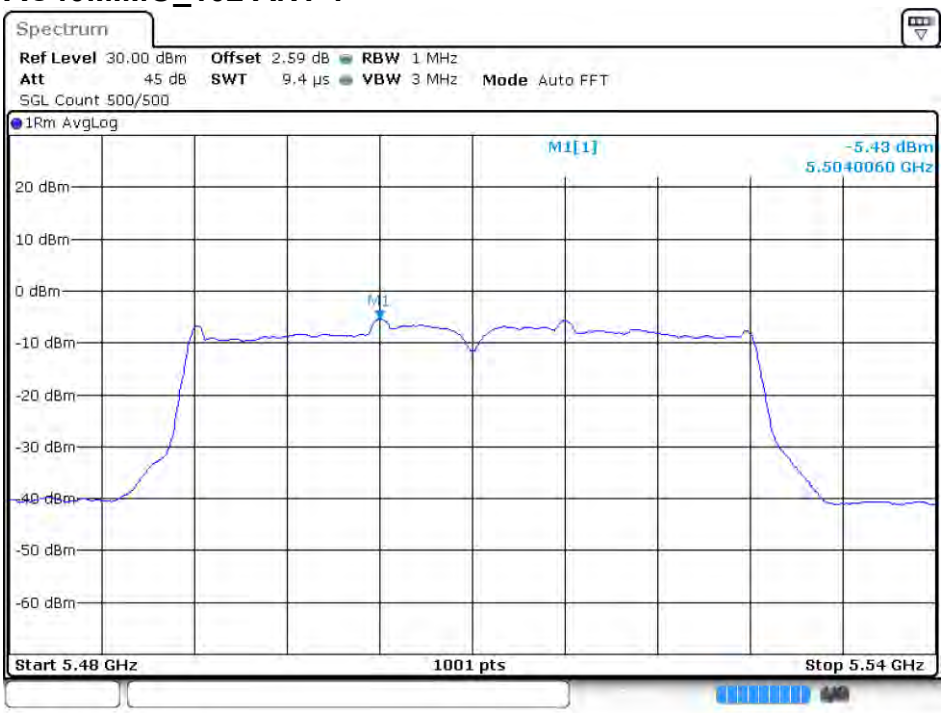
4.8.2.152 11AC40MIMO_62 ANT 2



Date: 17.JAN.2020 06:06:44

4.8.2.153 11AC40MIMO_102 ANT 1



Date: 17.JAN.2020 02:52:24

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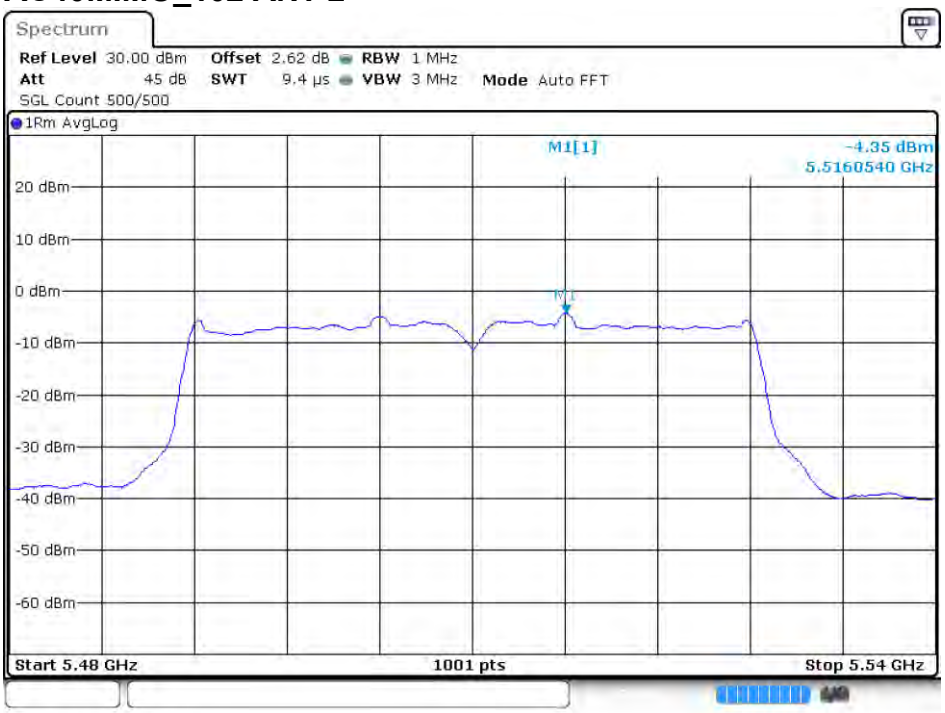
4.8.2.154 11AC40MIMO_102 ANT 2



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4.8.2.155 11AC40MIMO_134 ANT 1

Date: 17.JAN.2020 02:53:28

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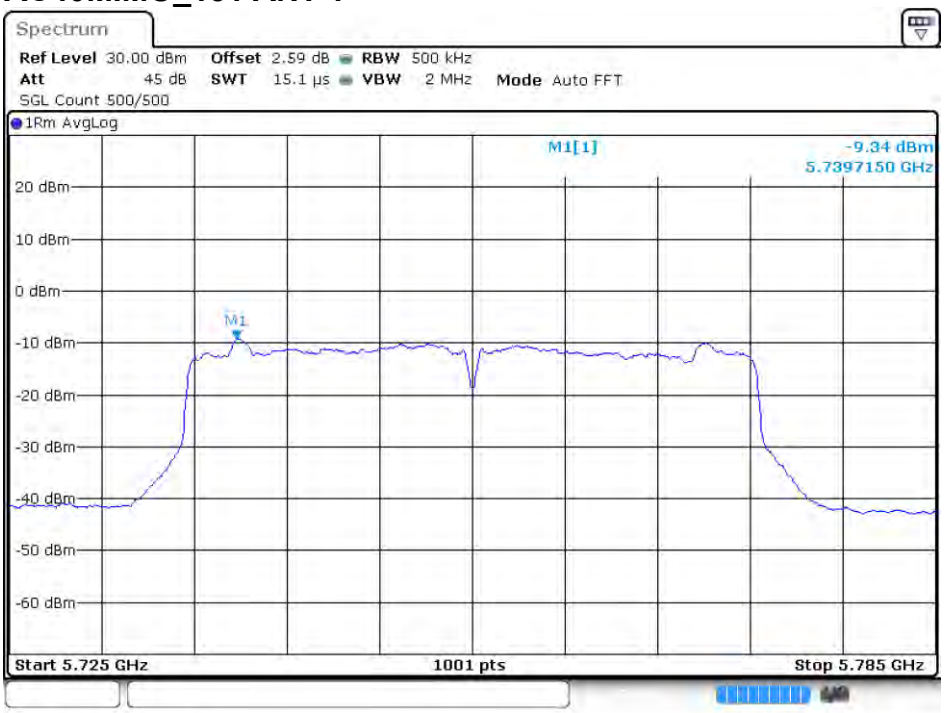
4.8.2.156 11AC40MIMO_134 ANT 2

Date: 17.JAN.2020 06:08:24

4.8.2.157 11AC40MIMO_151 ANT 1



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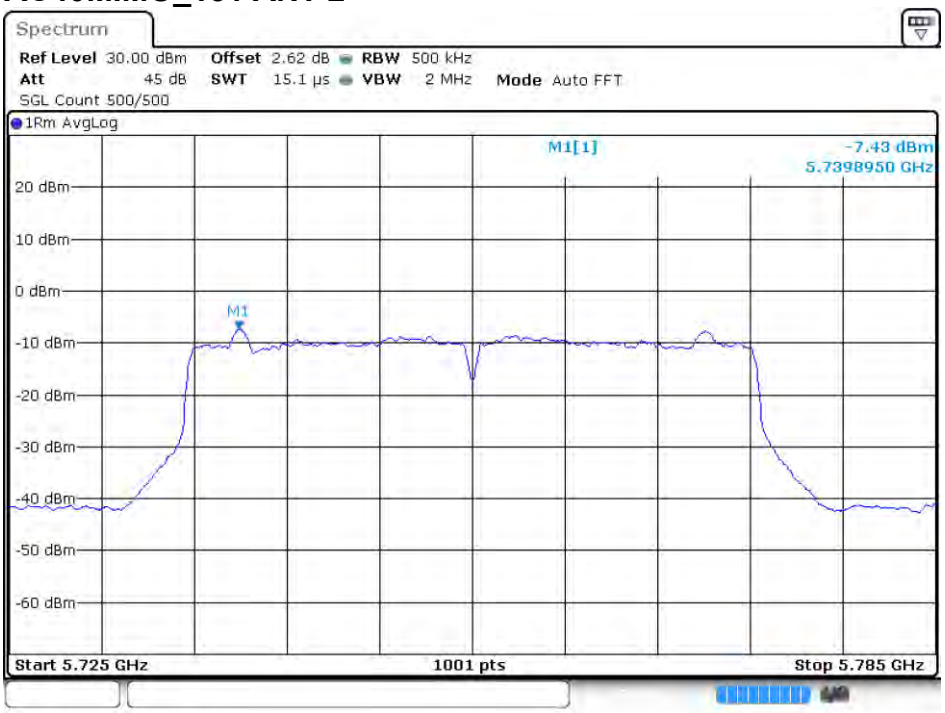
4.8.2.158 11AC40MIMO_151 ANT 2



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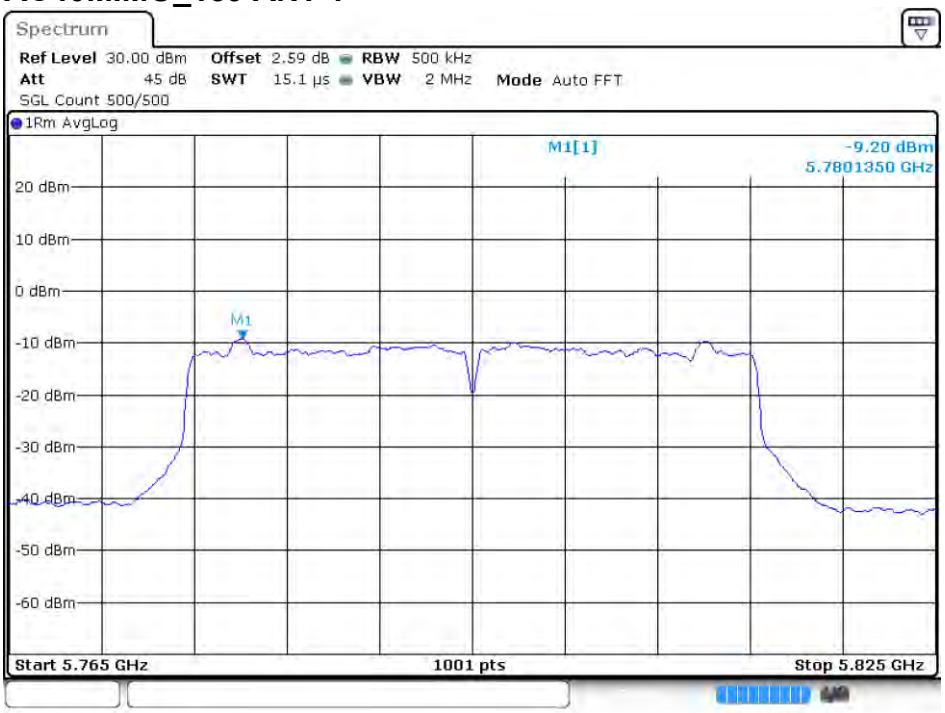
4.8.2.159 11AC40MIMO_159 ANT 1



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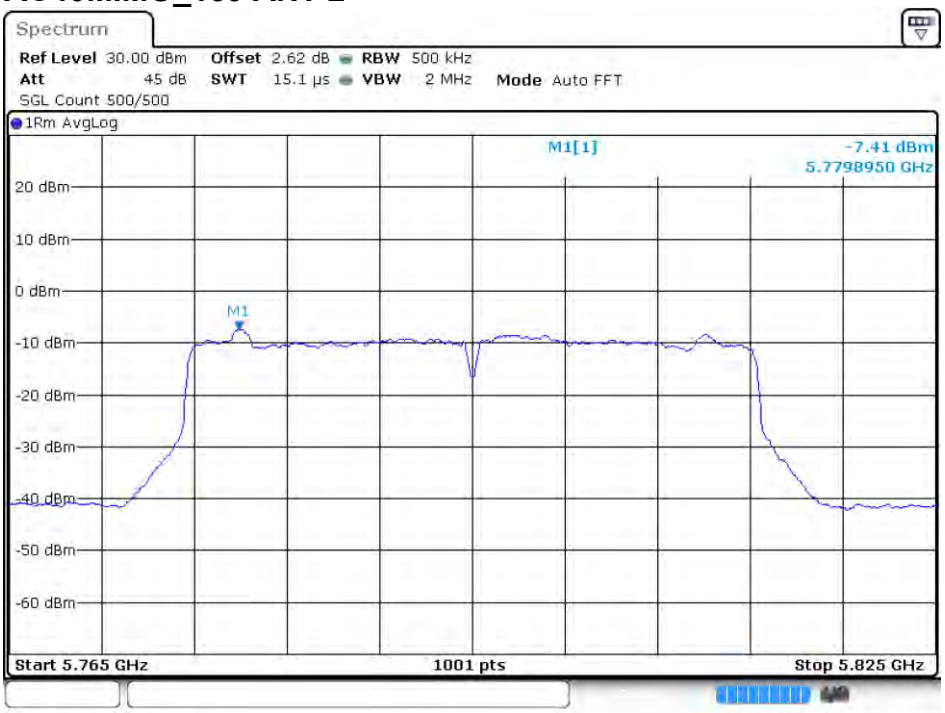
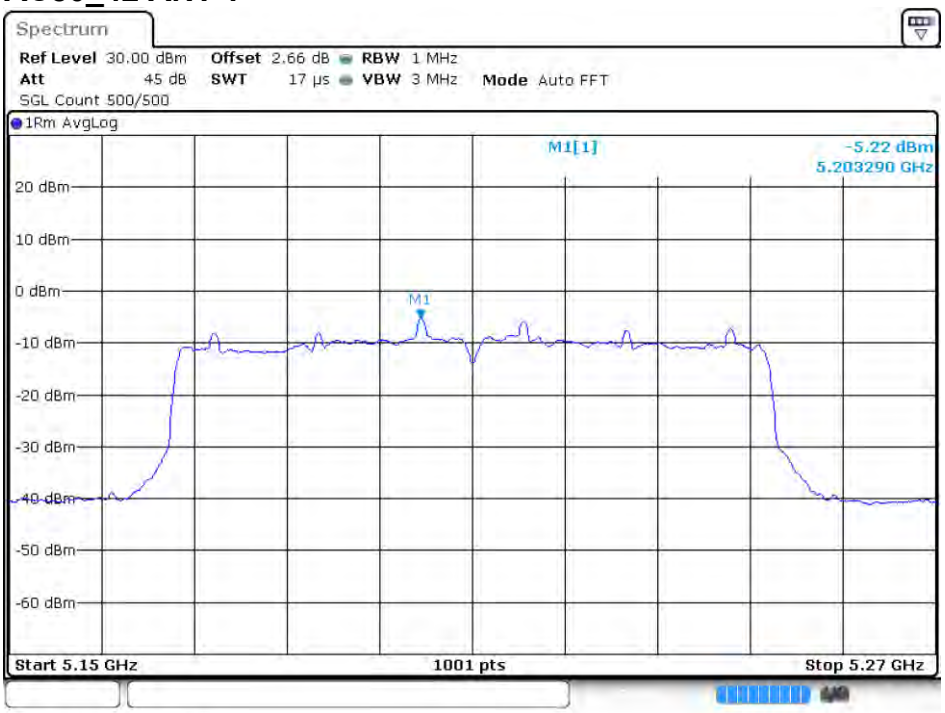
4.8.2.160 11AC40MIMO_159 ANT 2



Date: 17.JAN.2020 06:10:57

4.8.2.161 11AC80_42 ANT 1



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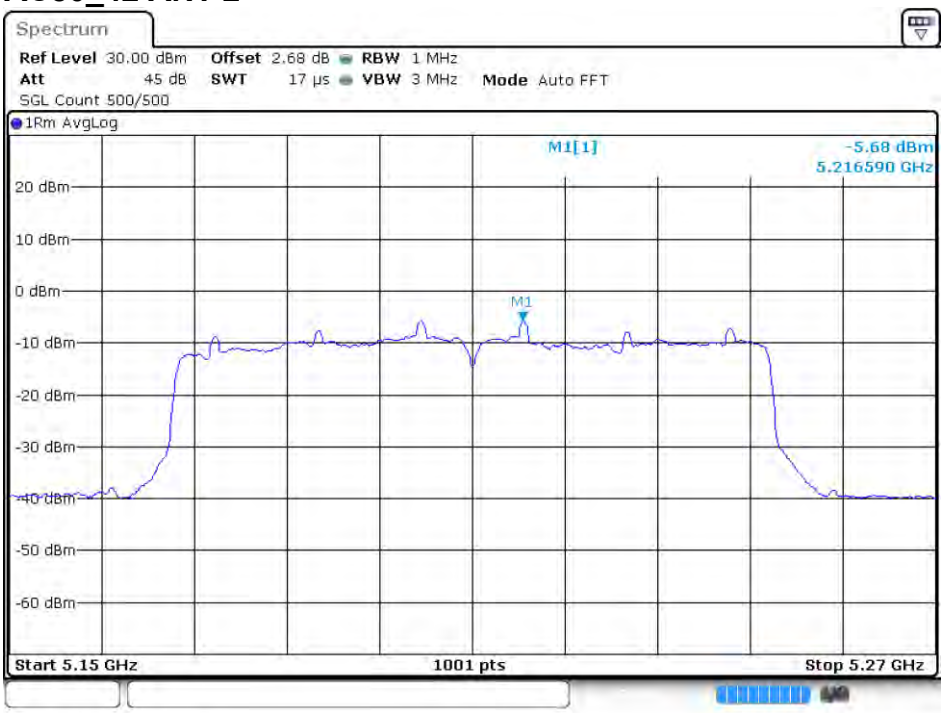
4.8.2.162 11AC80_42 ANT 2



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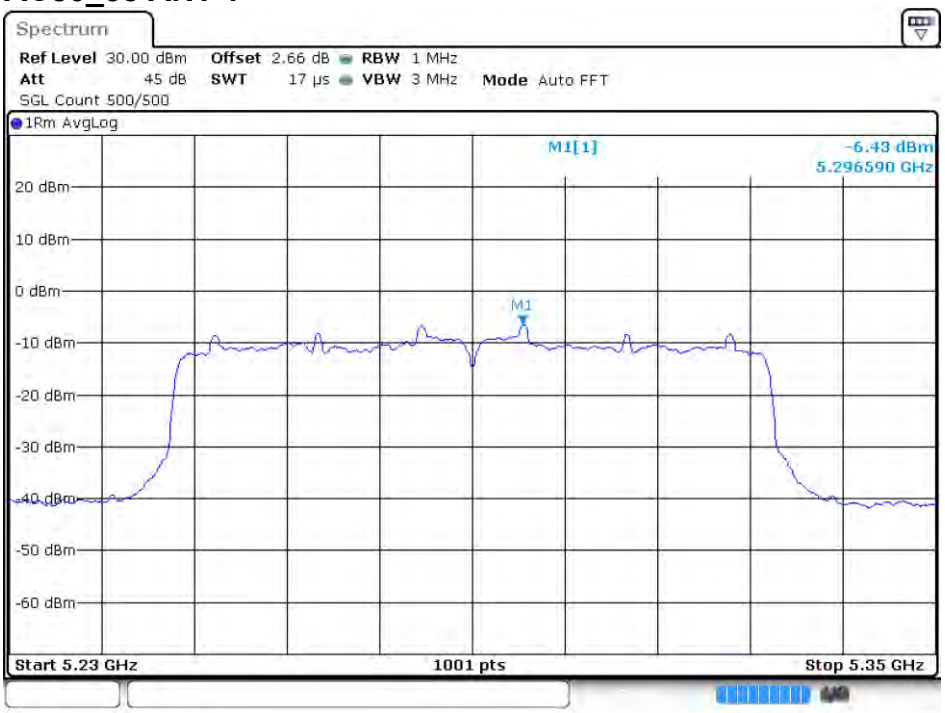

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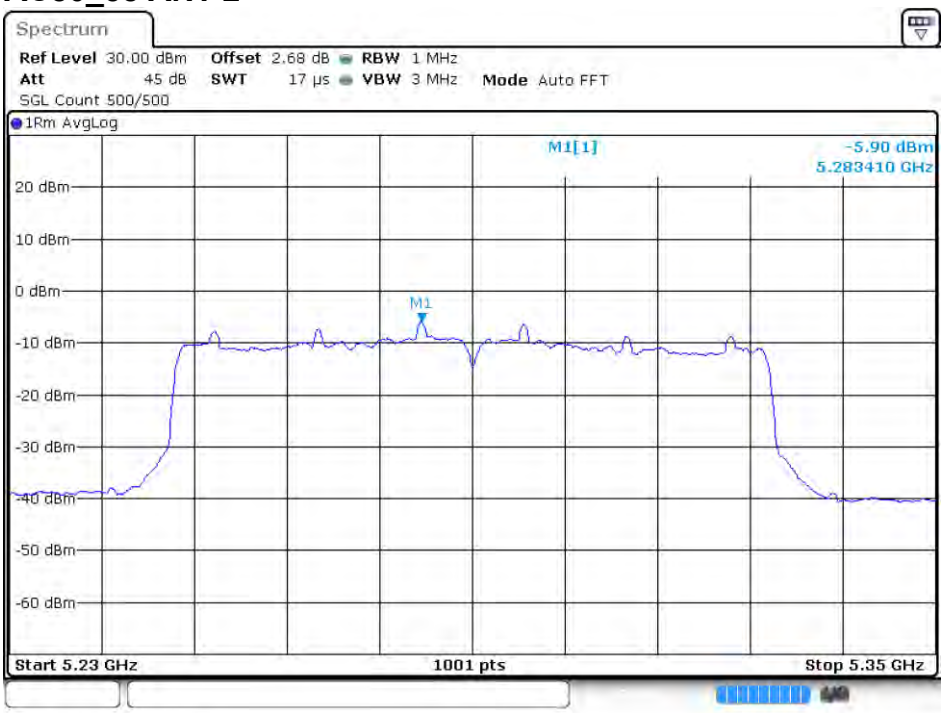
4.8.2.164 11AC80_58 ANT 2



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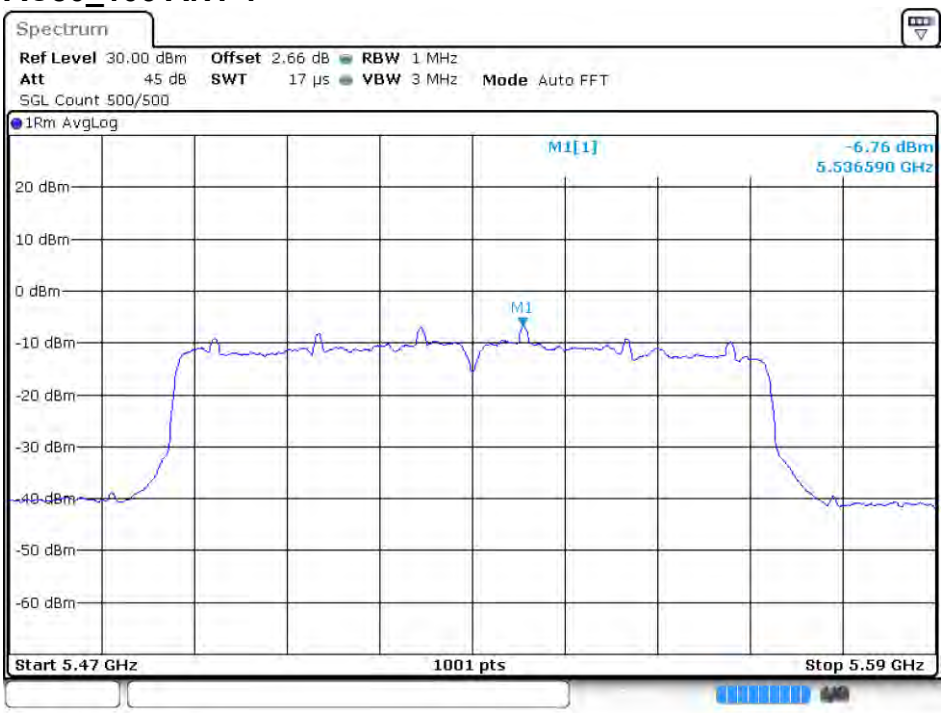

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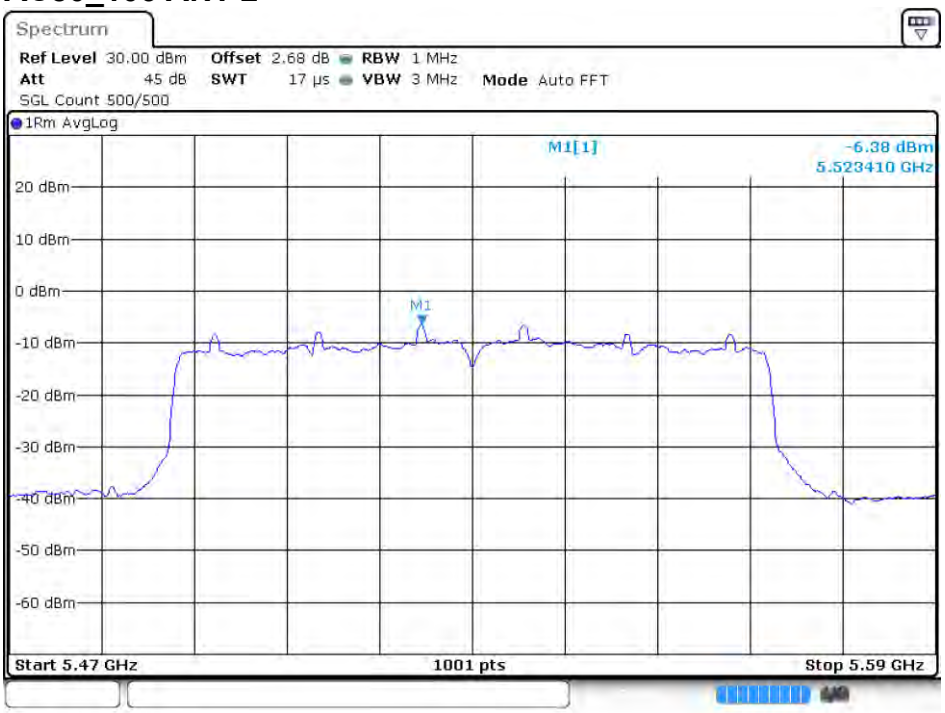

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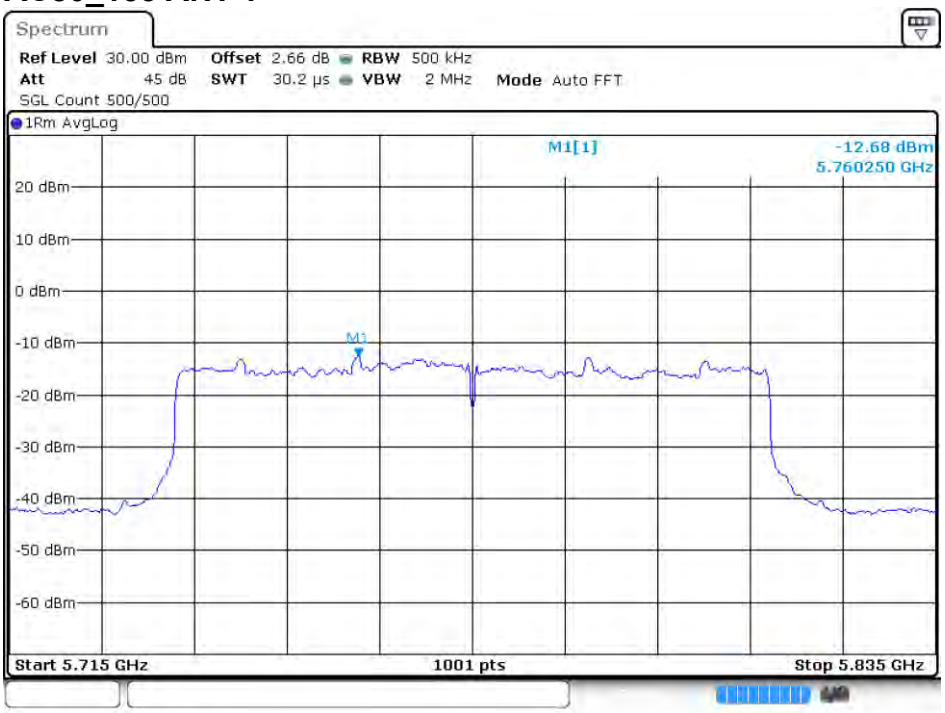
4.8.2.167 11AC80_155 ANT 1



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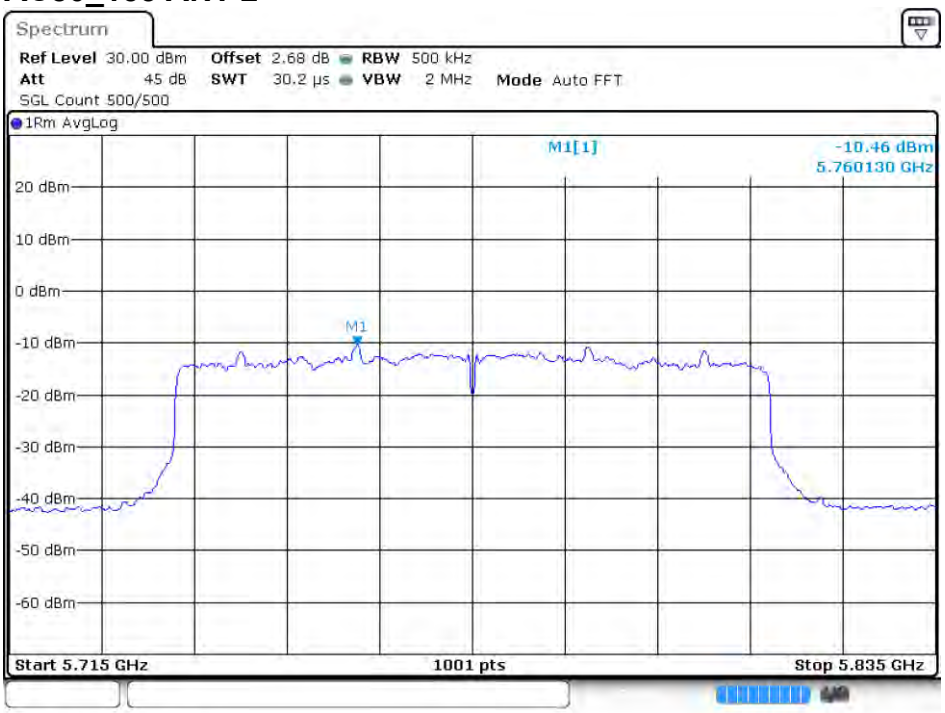

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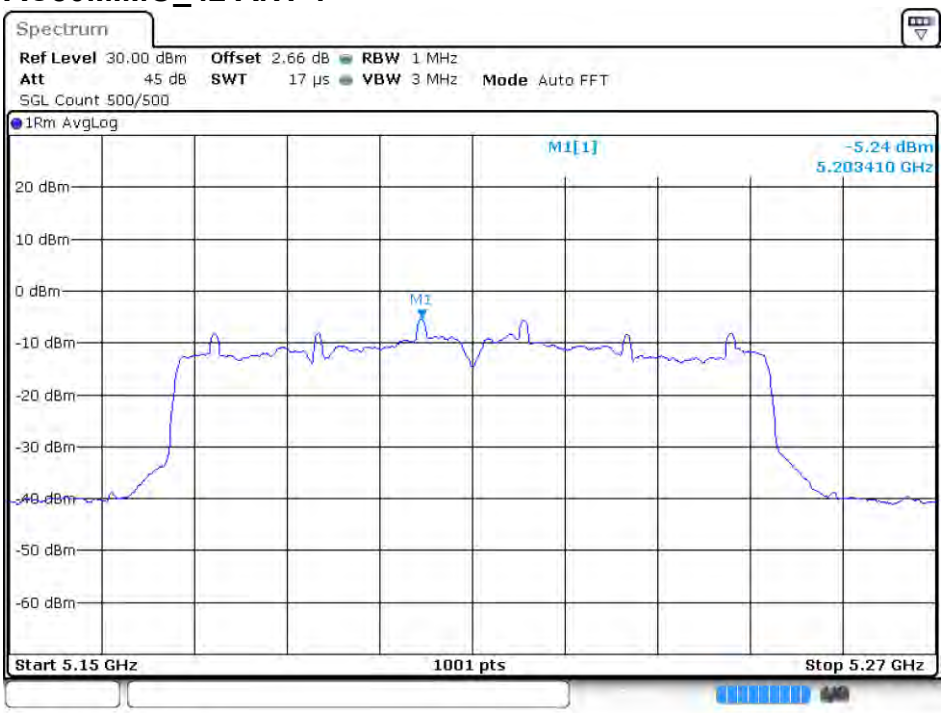
4.8.2.169 11AC80MIMO_42 ANT 1



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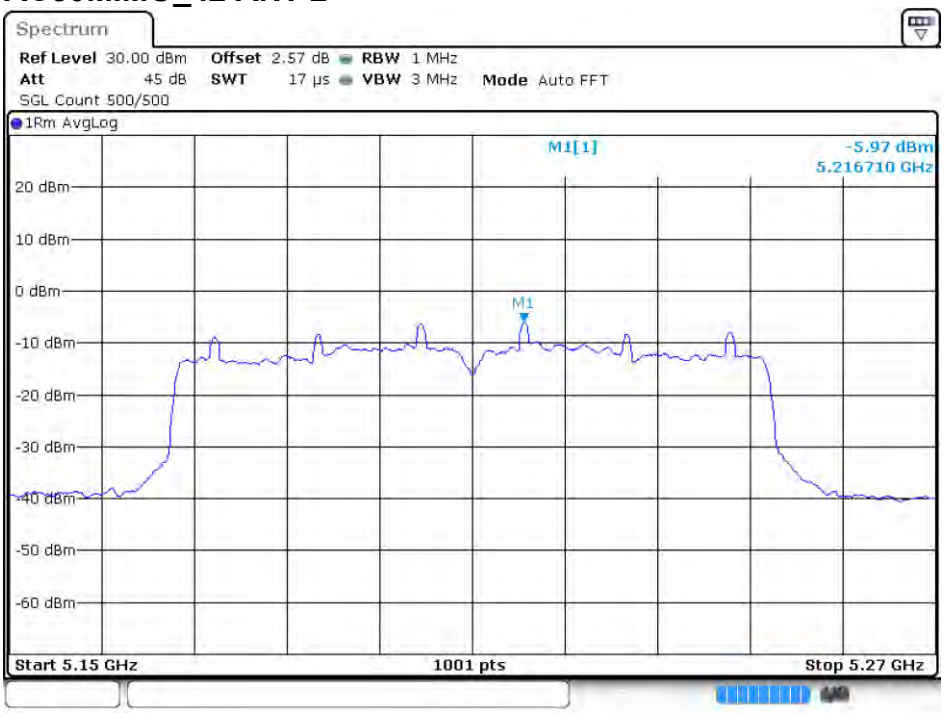

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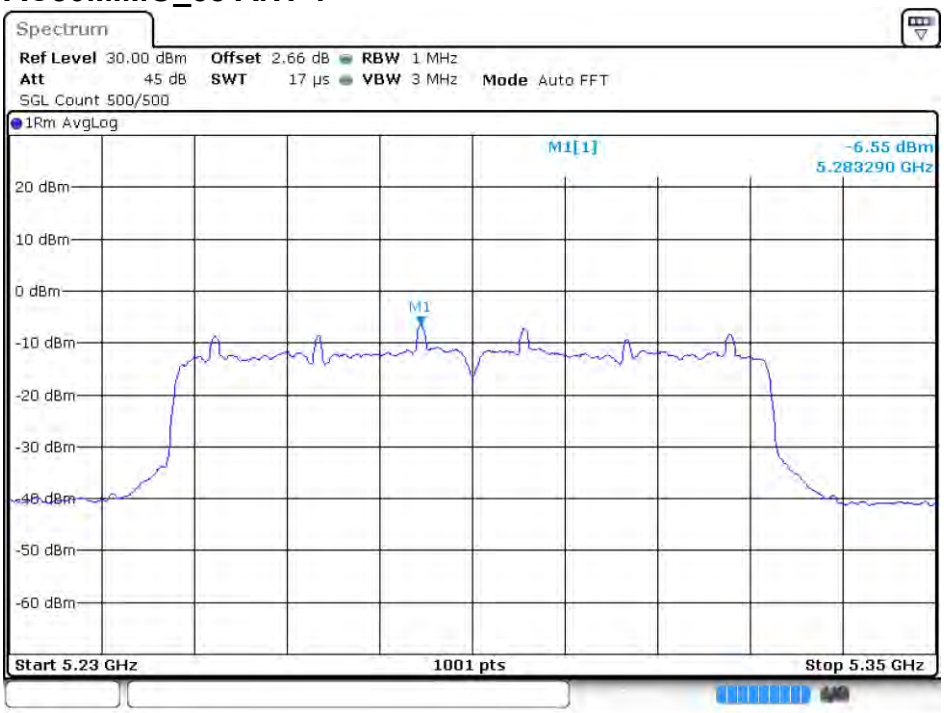

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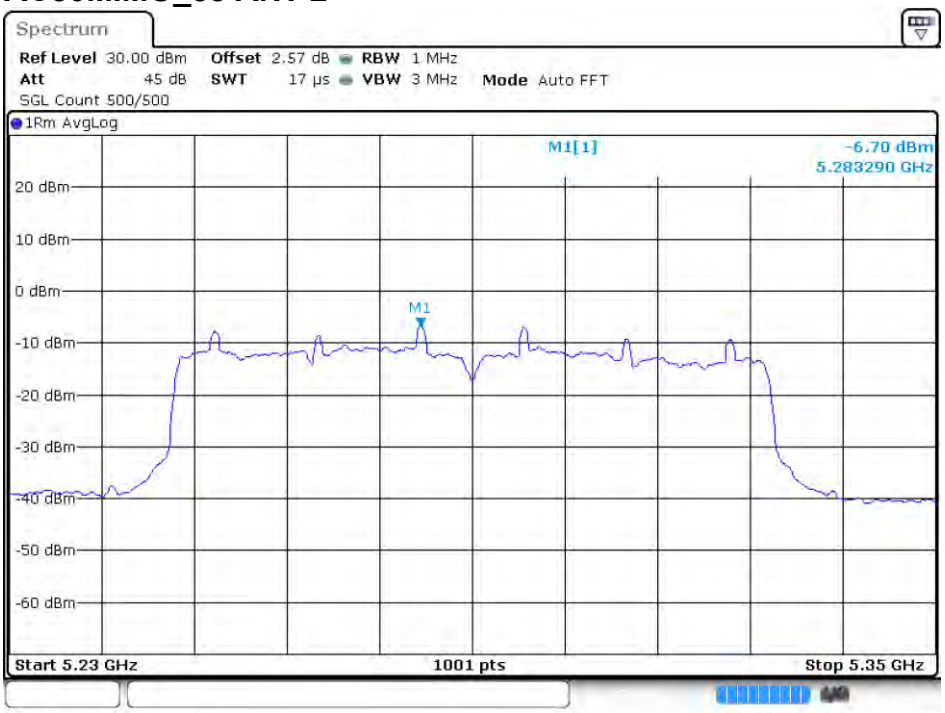

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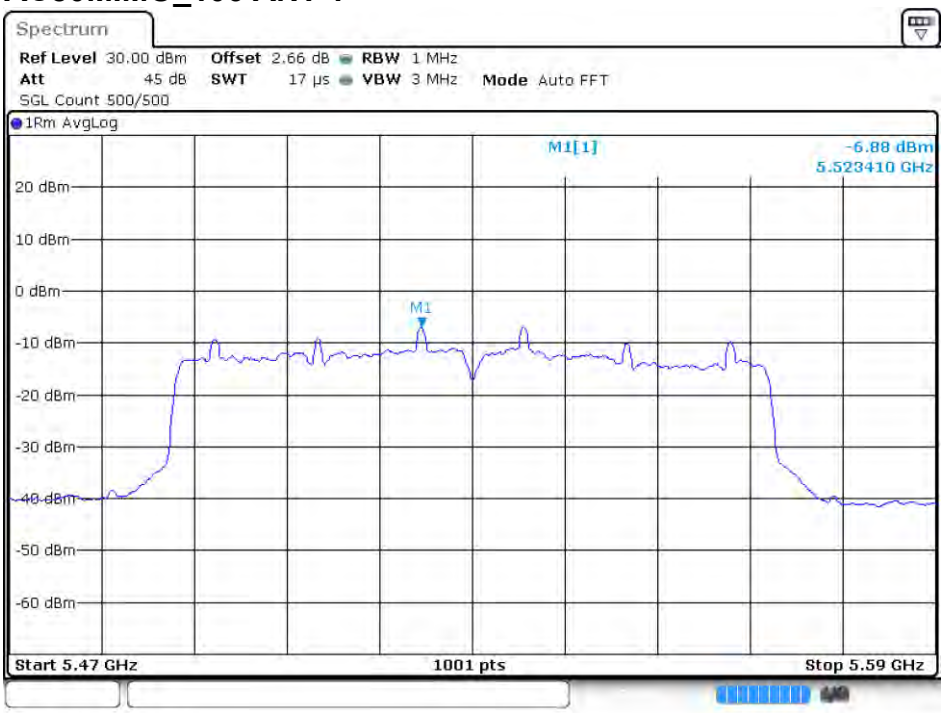

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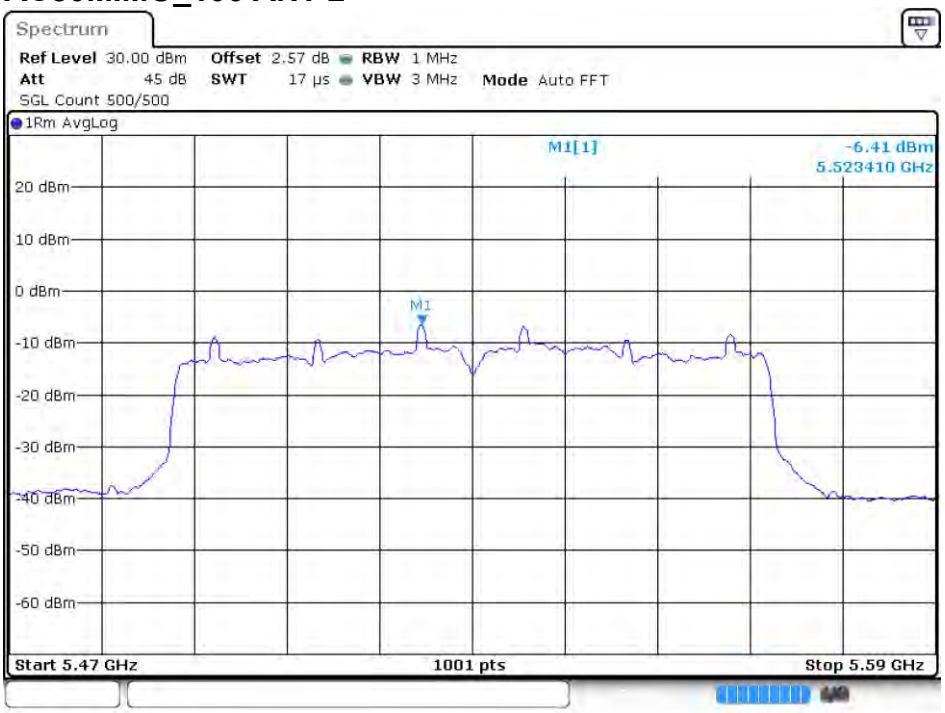

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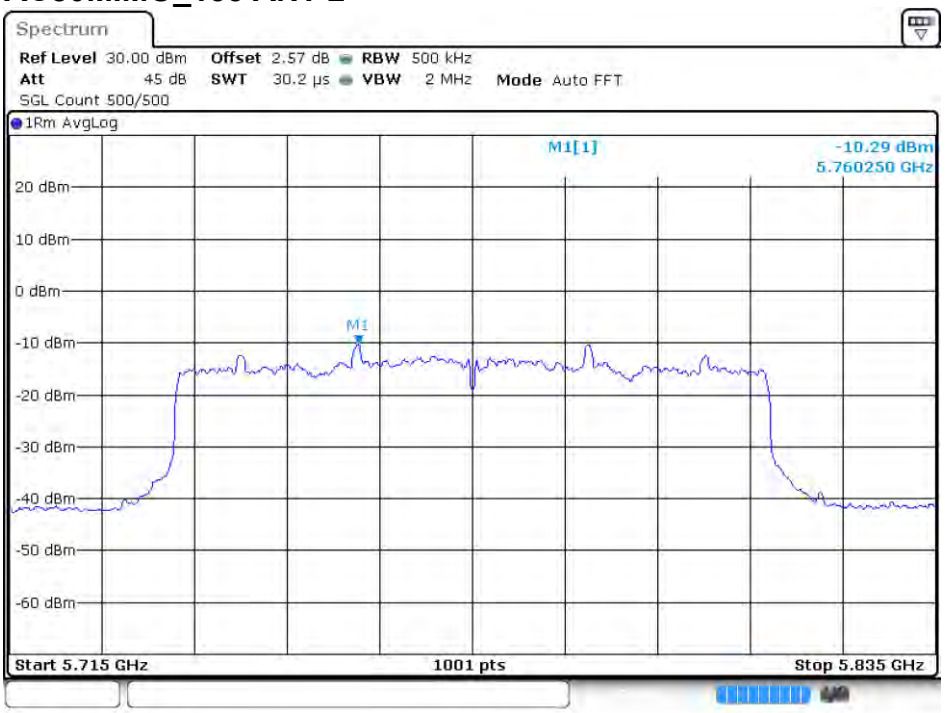

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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

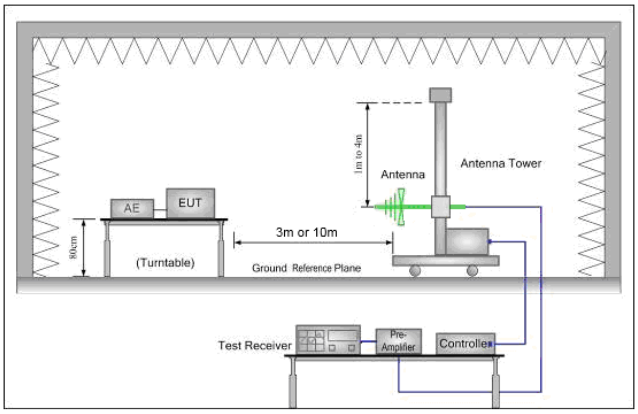

Figure 1. 30MHz to 1GHz

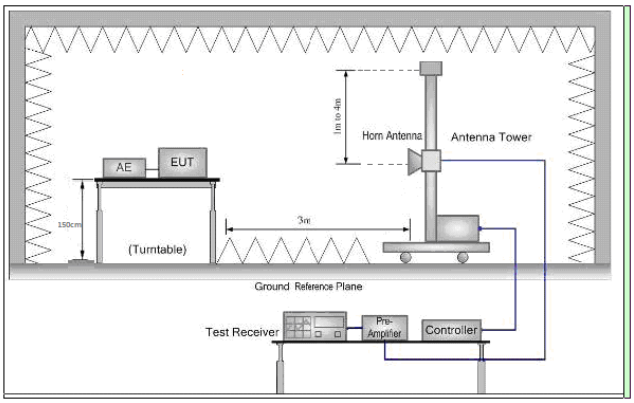

Figure 2. Above 1 GHz

Test Procedure:	a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time = N 1 *L 1 +N 2 *L 2 +...+N n-1 *LN n-1 +N n *L n Where N 1 is number of type 1 pulses, L 1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle) f. For each suspected emission, the EUT was arranged to its worst case and

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	then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. h. Test the EUT in the outermost channels. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	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) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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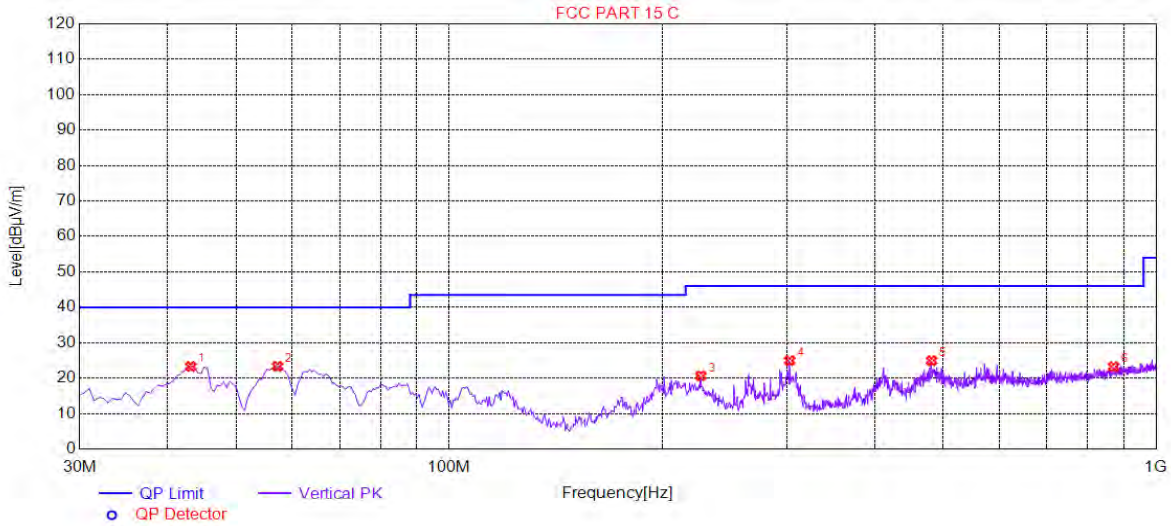
4.9.1 Radiated emission below 1GHz

30MHz~1GHz（QP）		
Test mode:	Transmitting	Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.1016	23.29	-30.57	40.00	16.71	231	185	Vertical
2	57.1736	23.35	-31.24	40.00	16.65	208	0	Vertical
3	227.0085	20.66	-30.07	46.00	25.34	224	122	Vertical
4	303.1916	24.93	-27.76	46.00	21.07	242	48	Vertical
5	481.2756	24.92	-23.18	46.00	21.08	259	60	Vertical
6	870.9255	23.21	-15.70	46.00	22.79	189	278	Vertical

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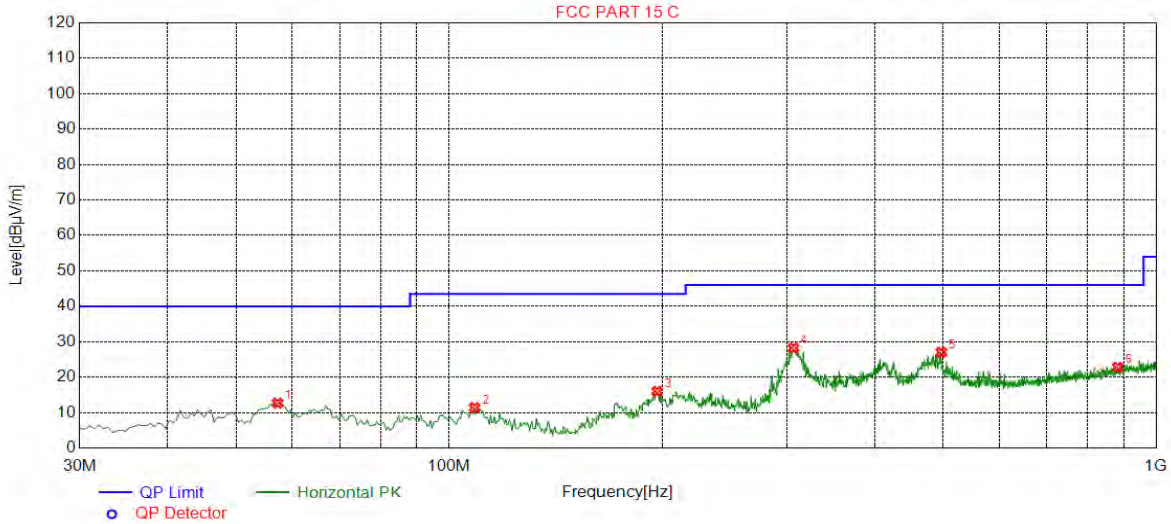
Test mode:	Transmitting	Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.1736	12.66	-31.24	40.00	27.34	162	332	Horizontal
2	108.6093	11.39	-31.69	43.50	32.11	237	347	Horizontal
3	196.9235	16.01	-31.14	43.50	27.49	204	31	Horizontal
4	307.0735	28.25	-27.65	46.00	17.75	150	339	Horizontal
5	496.8034	27.03	-22.76	46.00	18.97	240	16	Horizontal
6	882.5713	22.81	-15.51	46.00	23.19	119	16	Horizontal

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