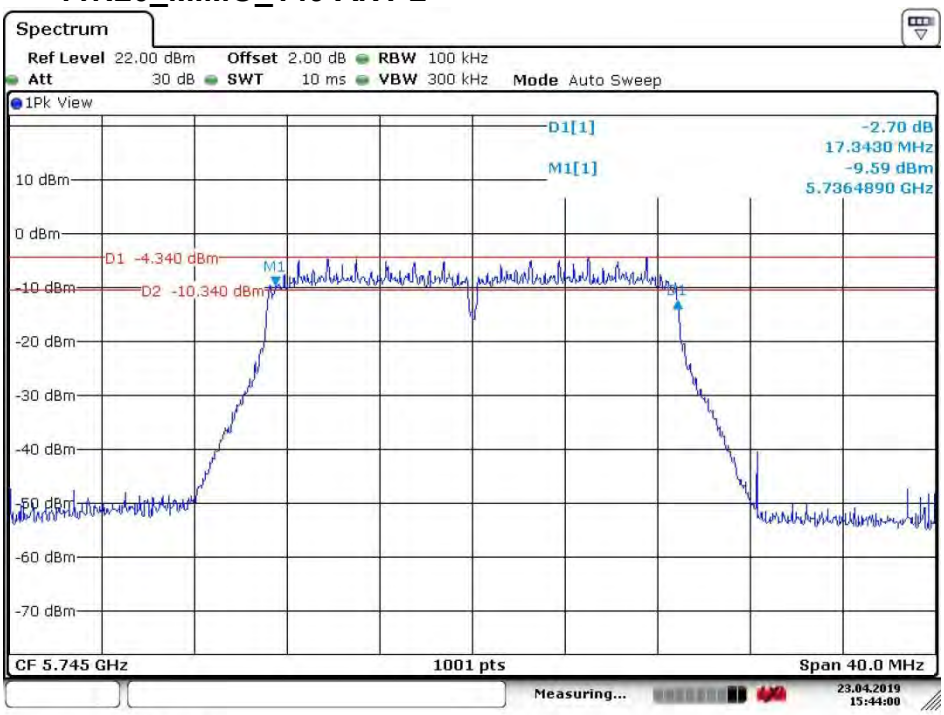
4.6.1.46 11N20_MIMO_149 ANT 2



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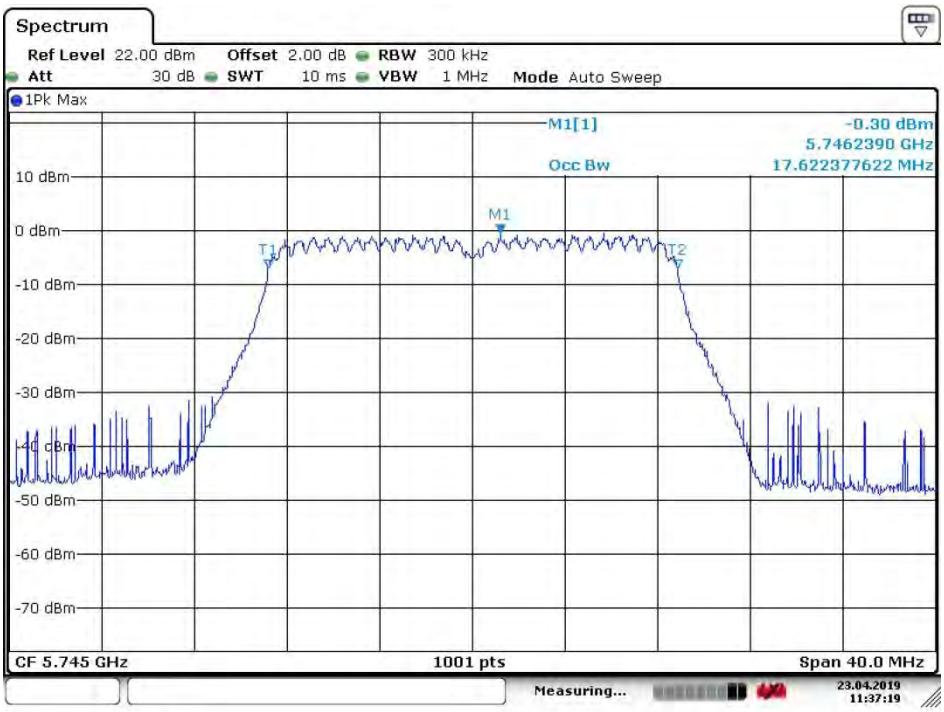

Date: 23.APR.2019 11:37:19

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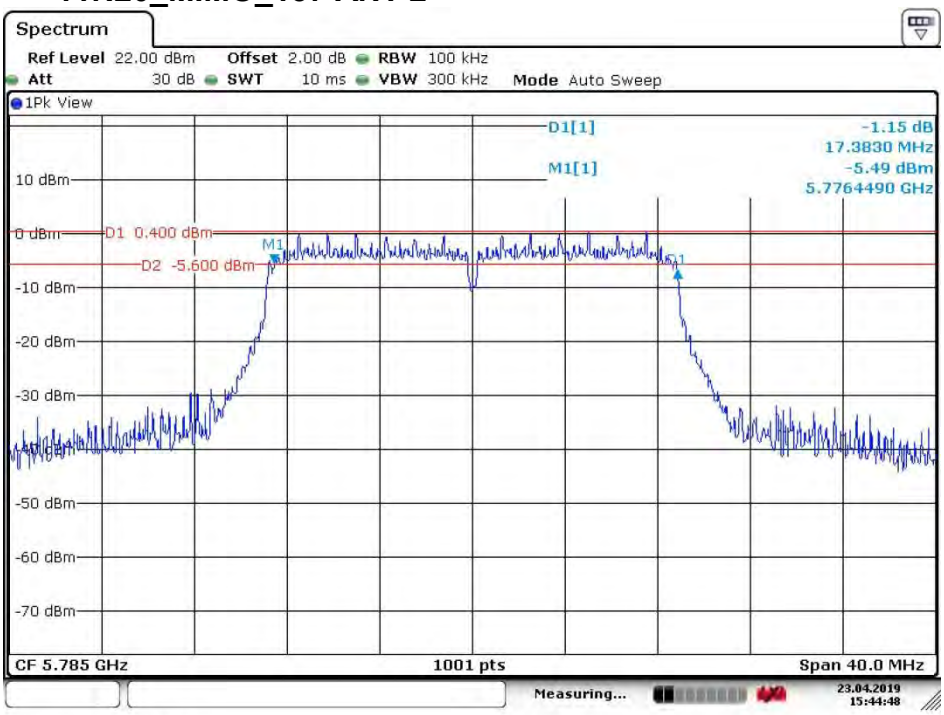
4.6.1.47 11N20_MIMO_157 ANT 2



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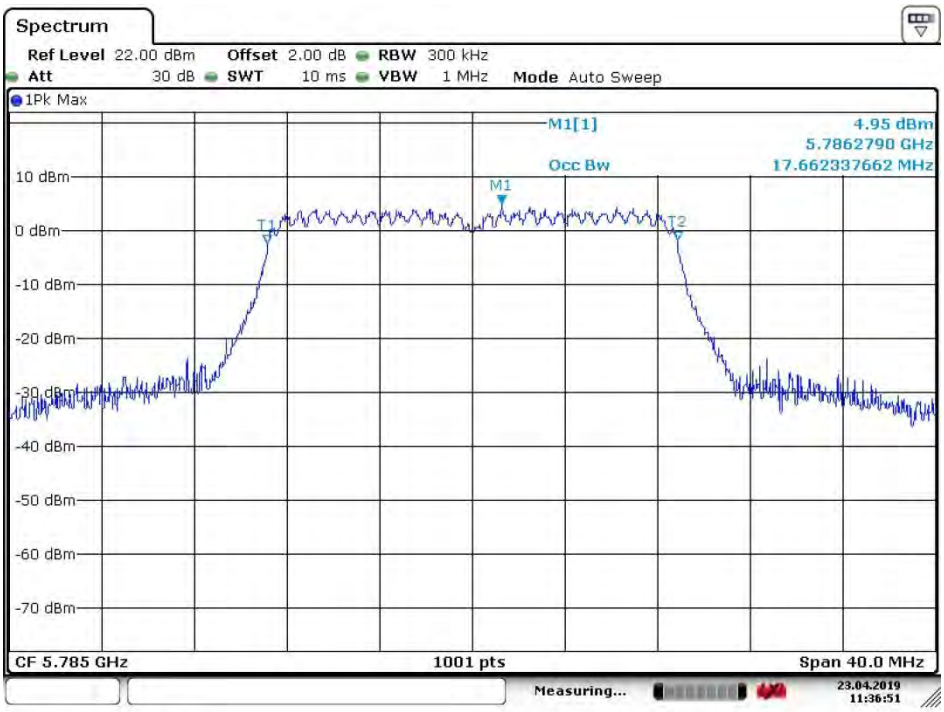

Date: 23.APR.2019 11:36:52

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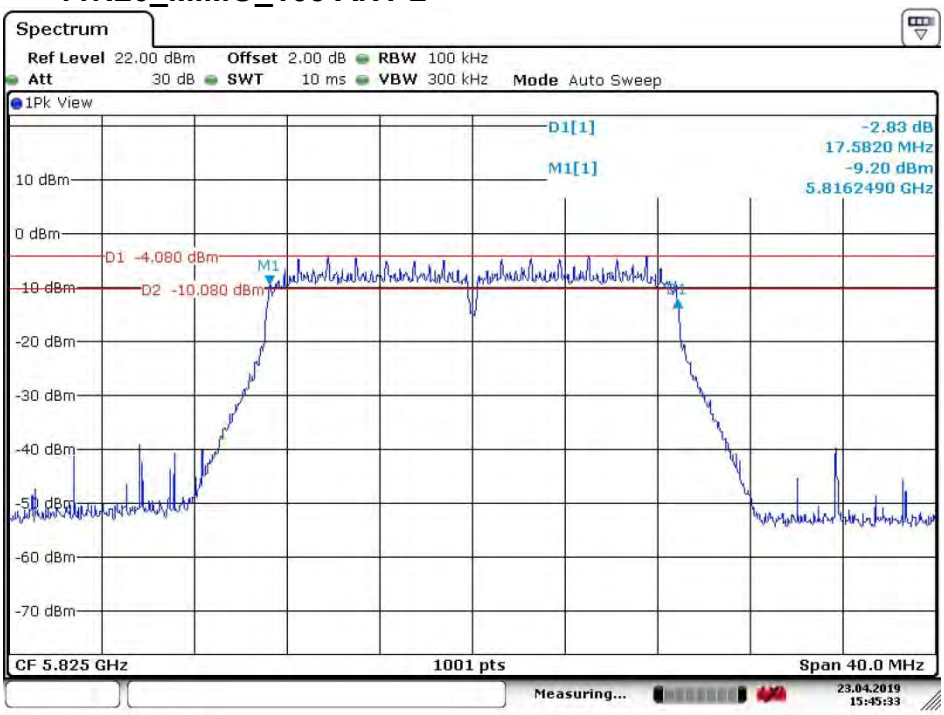
4.6.1.48 11N20_MIMO_165 ANT 2



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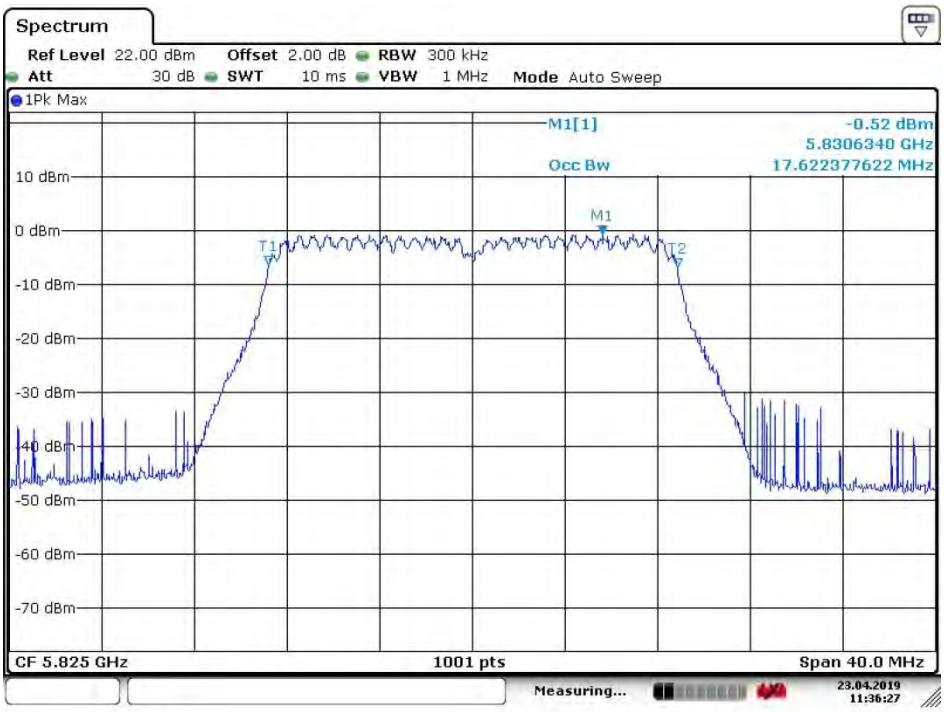

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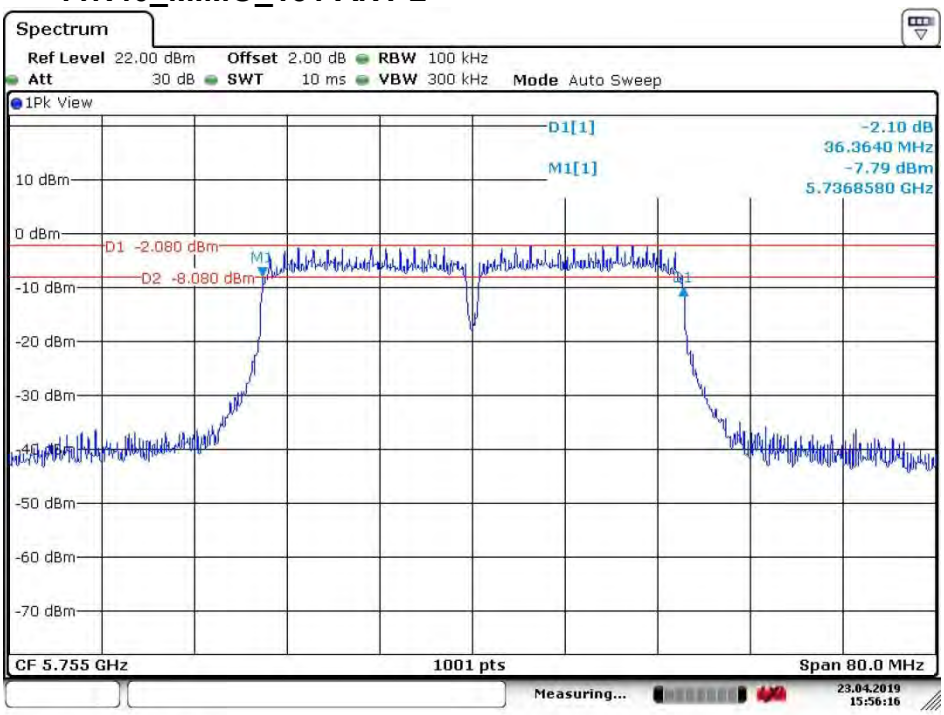
4.6.1.49 11N40_MIMO_151 ANT 2



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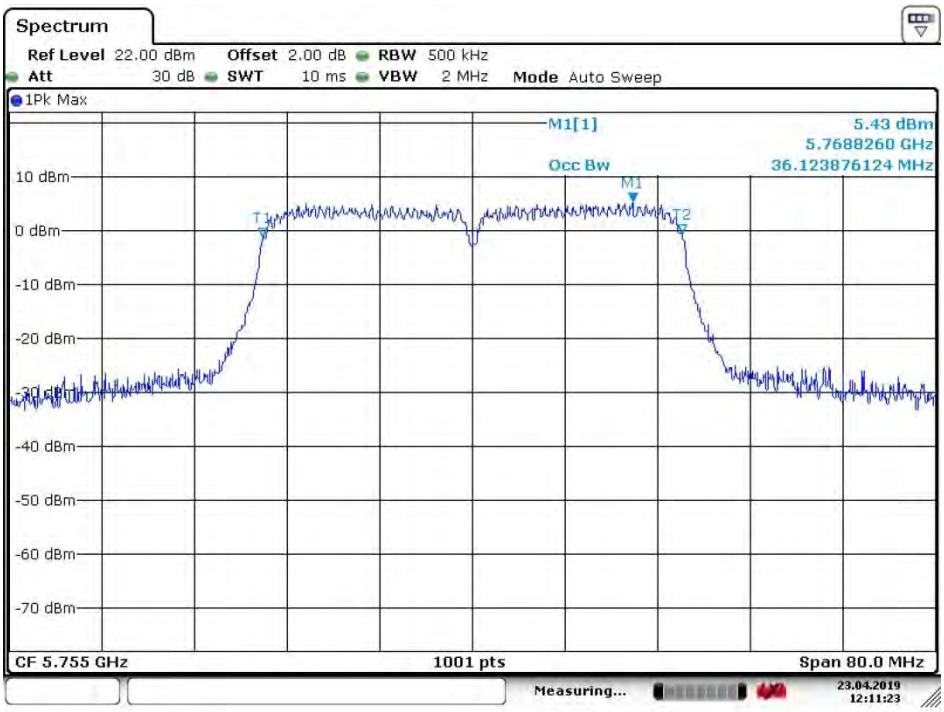

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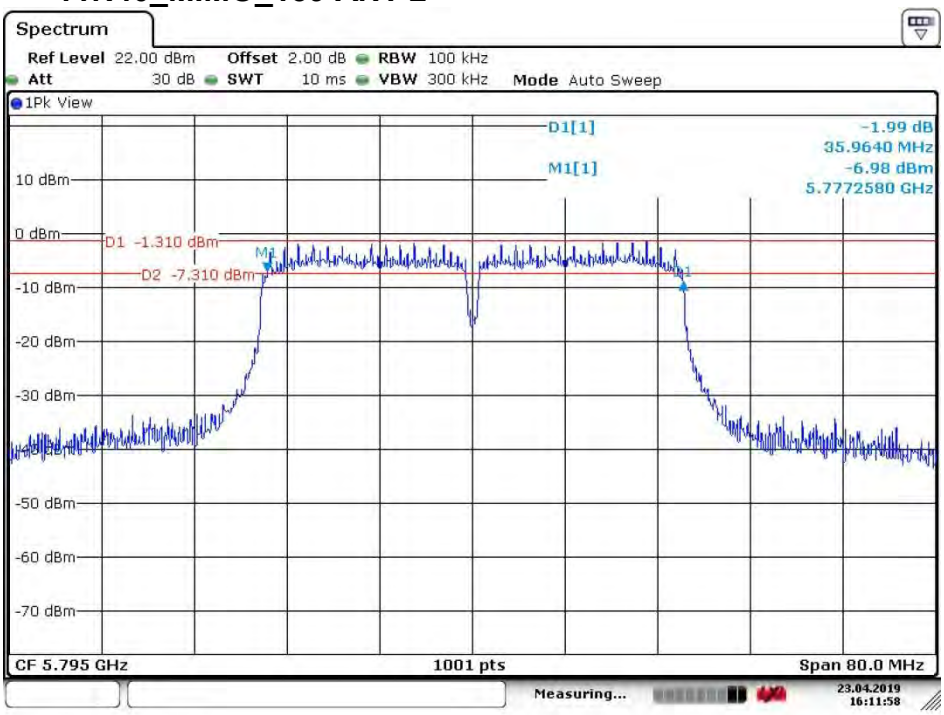
4.6.1.50 11N40_MIMO_159 ANT 2



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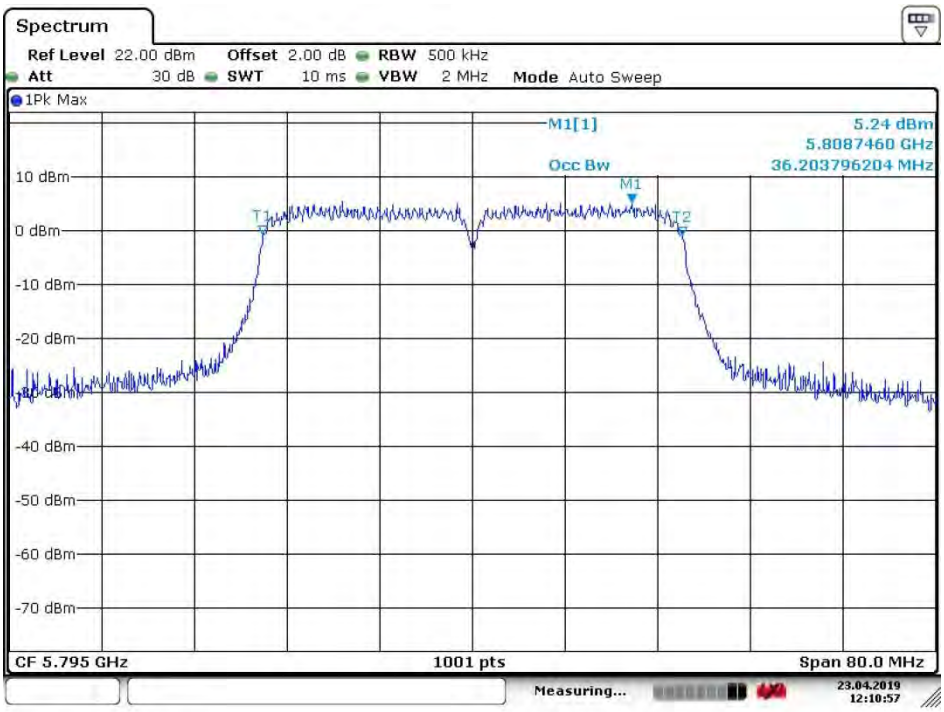

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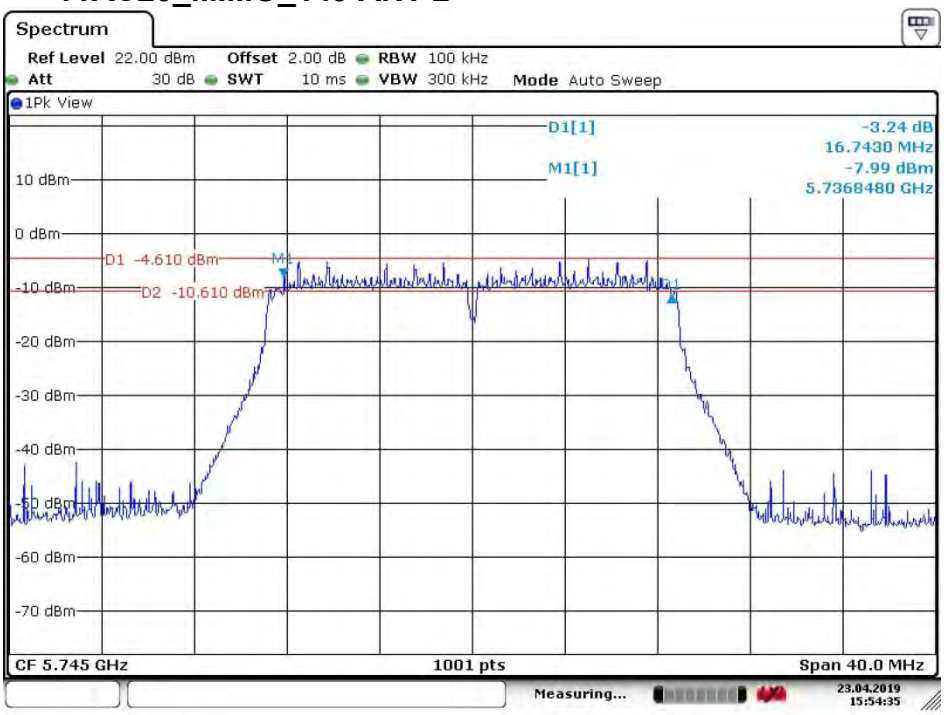
4.6.1.51 11AC20_MIMO_149 ANT 2



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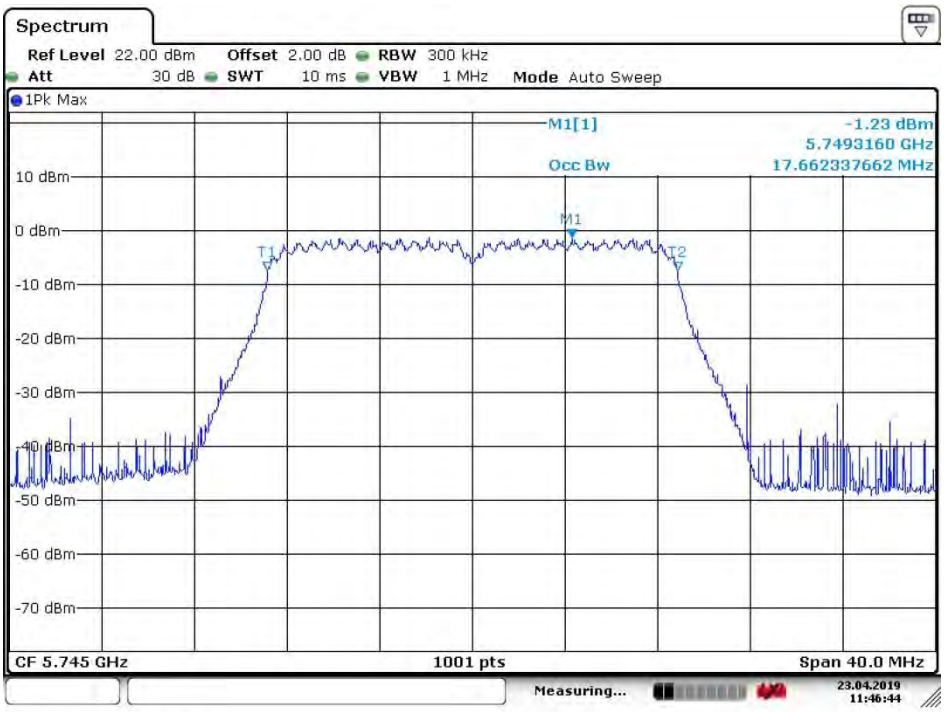

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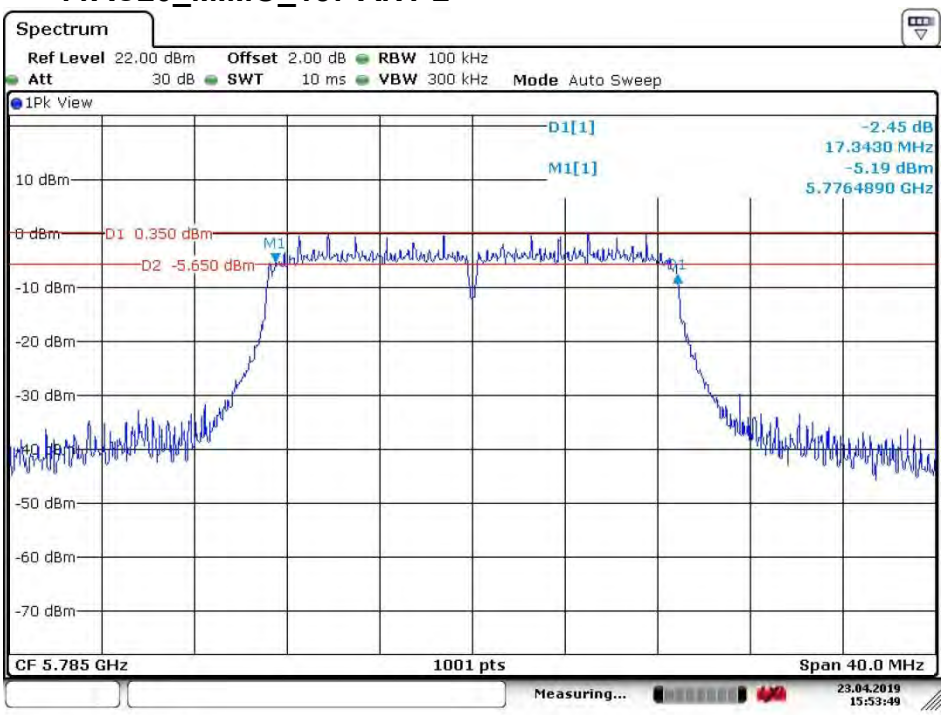
4.6.1.52 11AC20_MIMO_157 ANT 2



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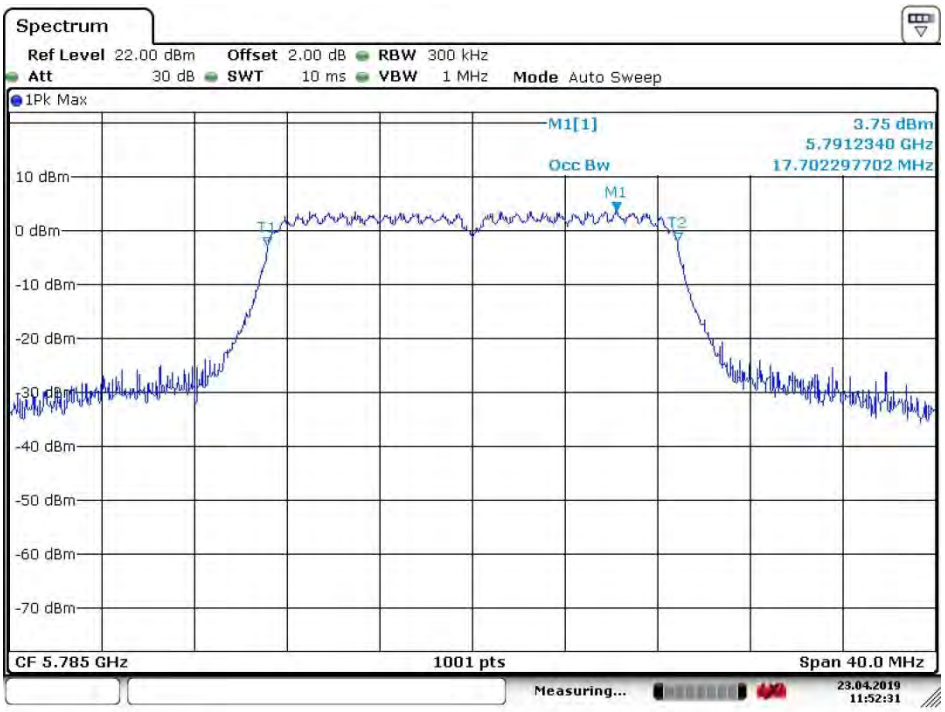

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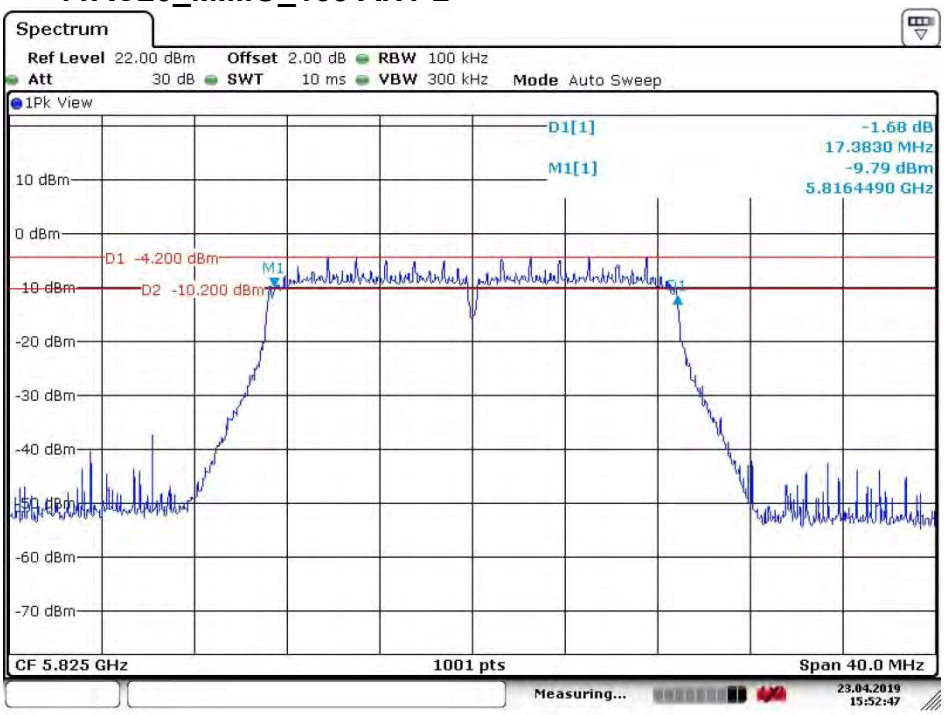
4.6.1.53 11AC20_MIMO_165 ANT 2



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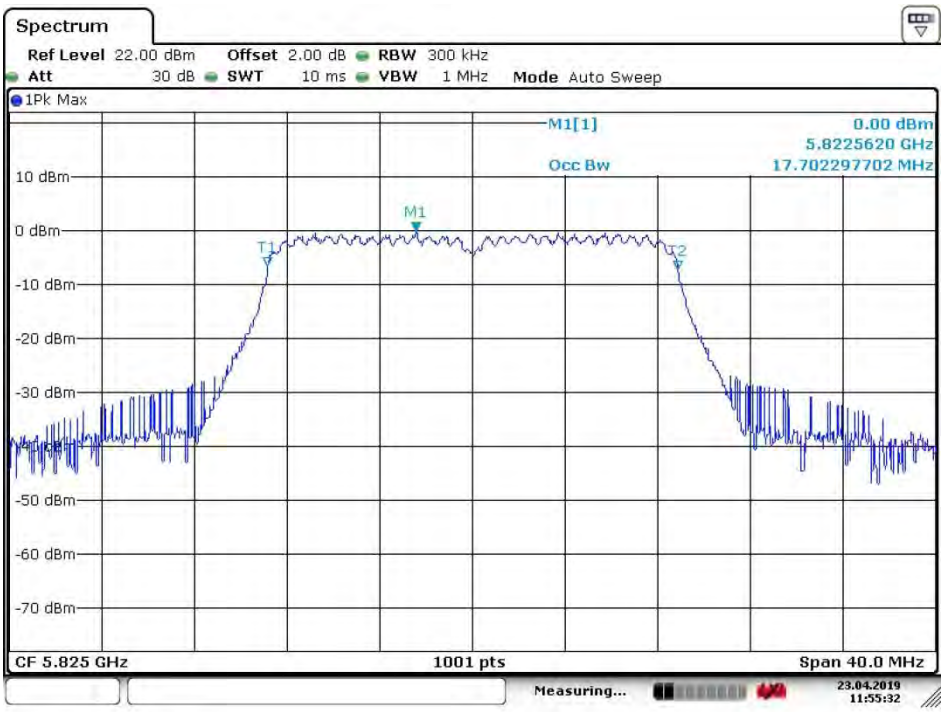

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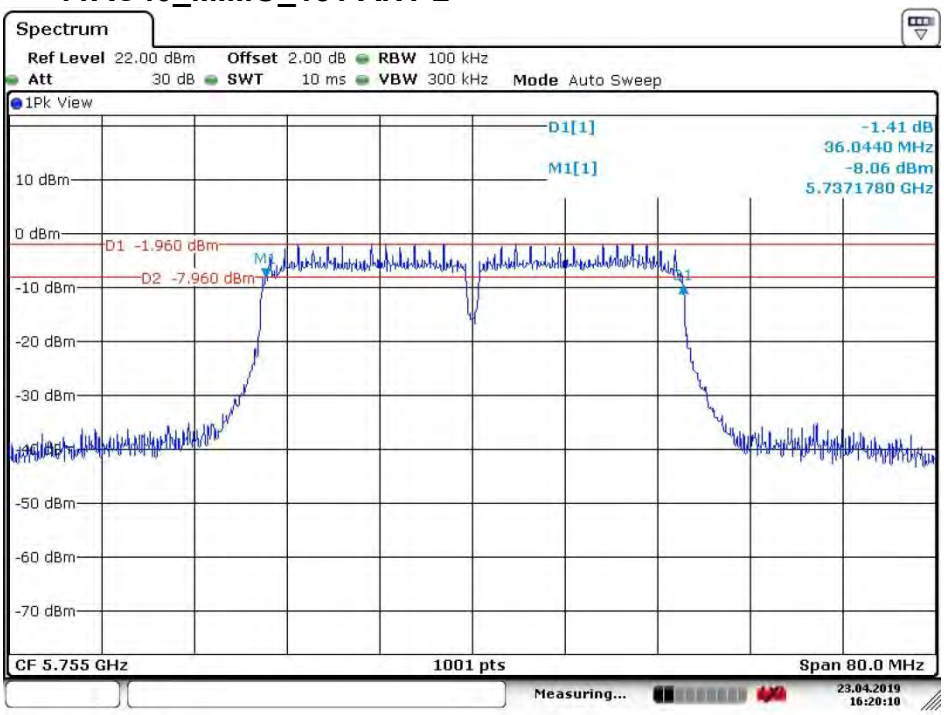
4.6.1.54 11AC40_MIMO_151 ANT 2



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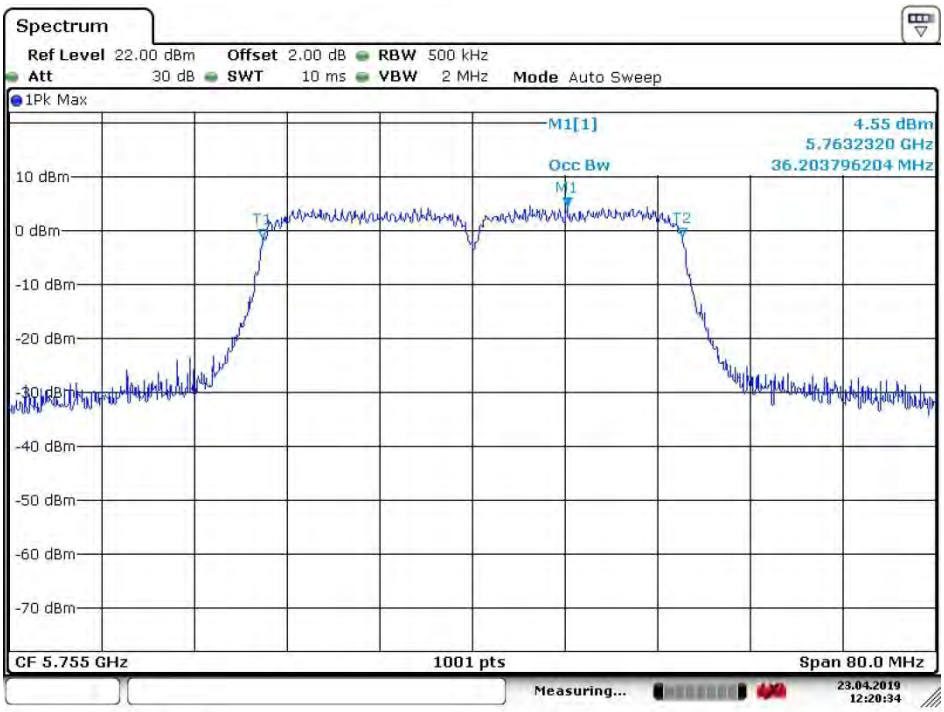

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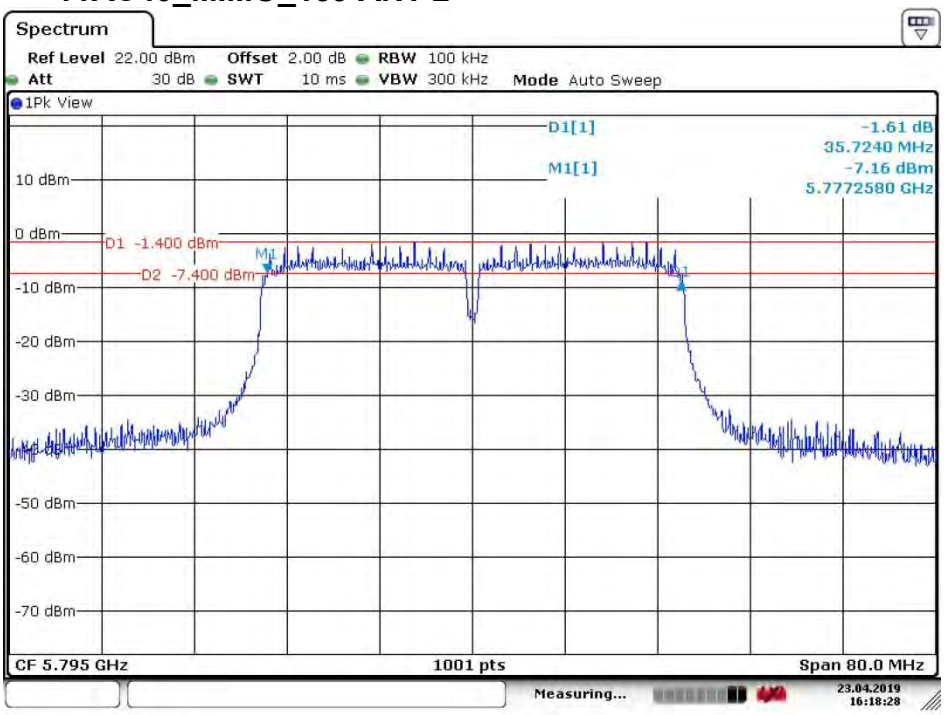
4.6.1.55 11AC40_MIMO_159 ANT 2



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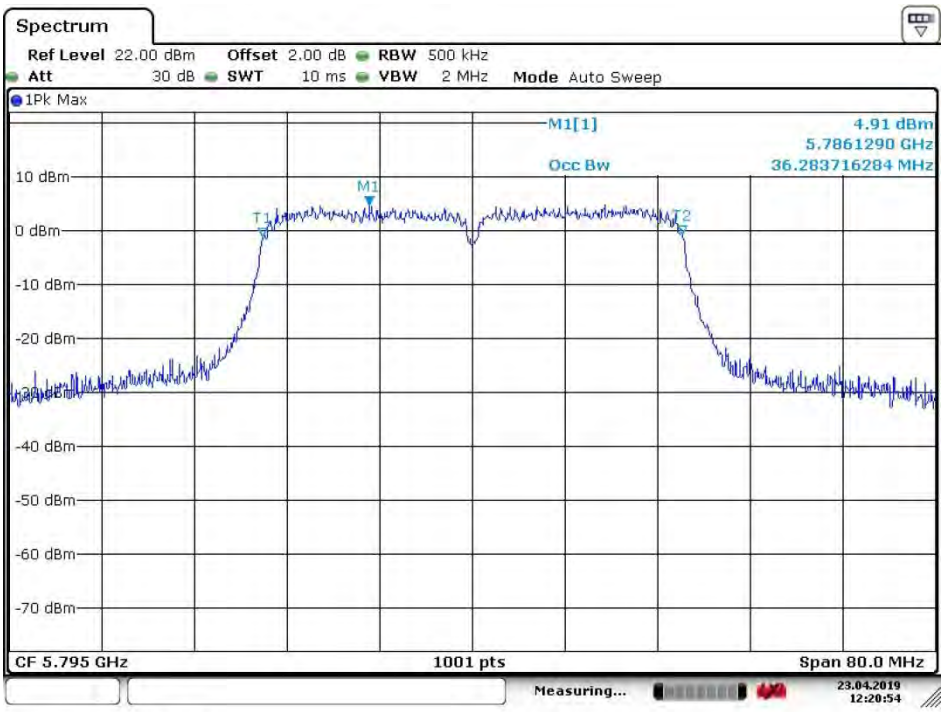

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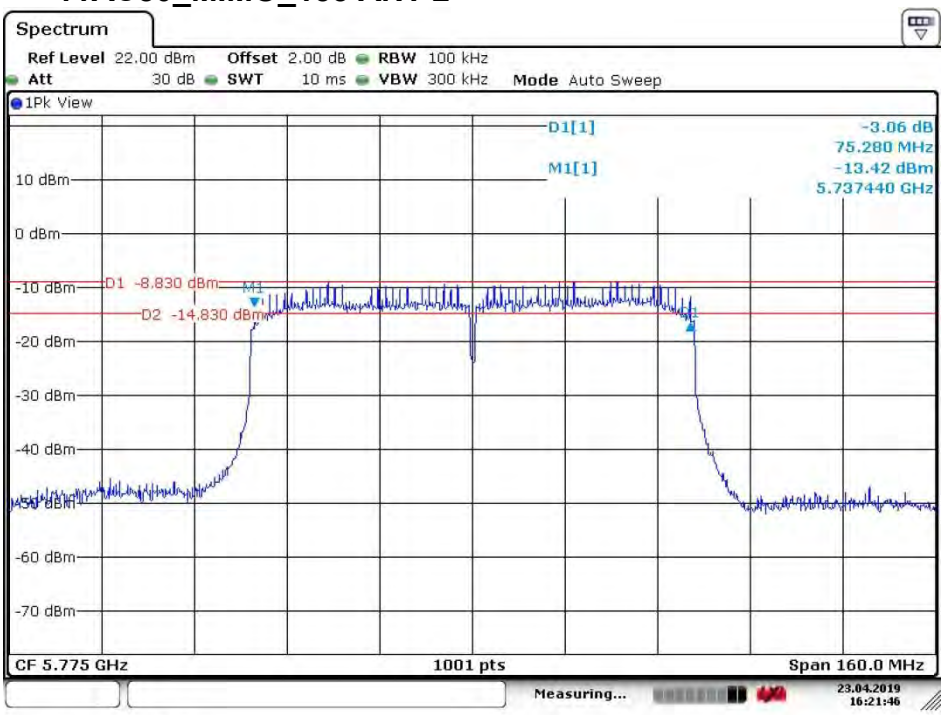
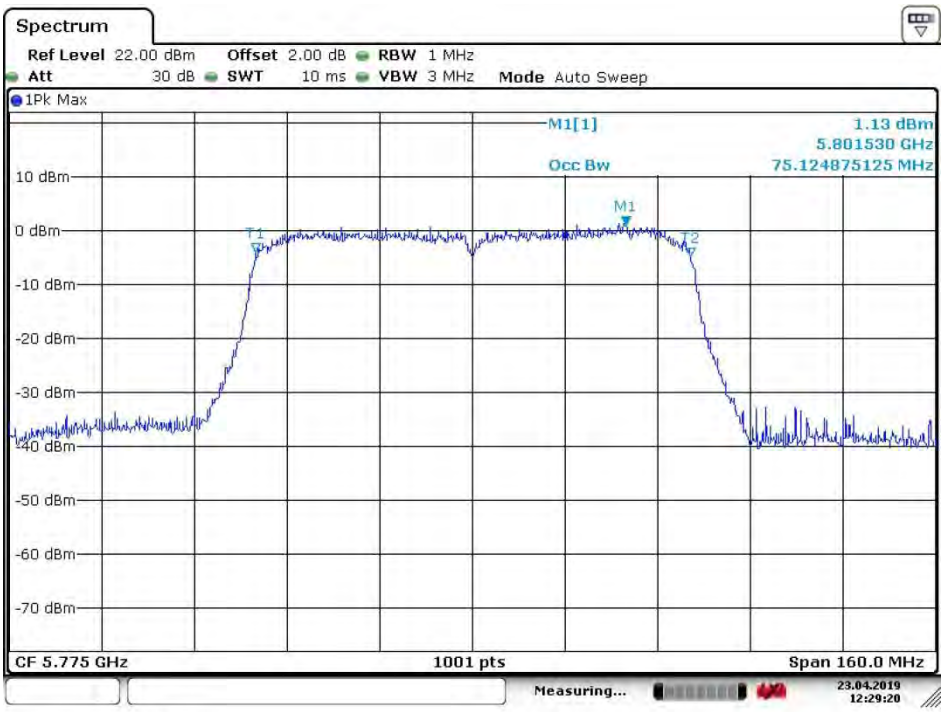
4.6.1.56 11AC80_MIMO_155 ANT 2



Date: 23.APR.2019 16:21:46



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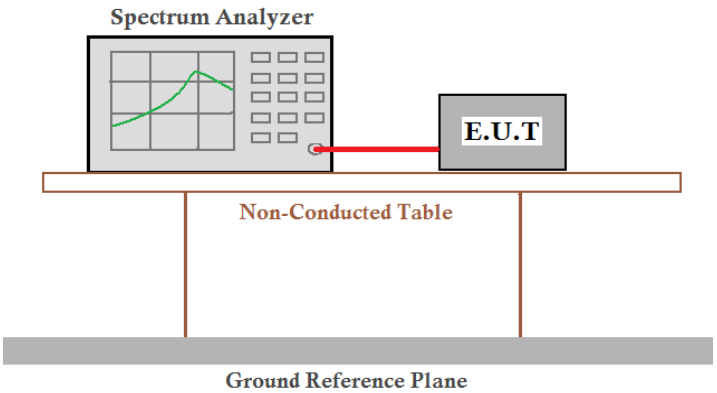
4.7 Power Spectral Density

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:	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); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80). MCSAC0 of rate is the worst case of 802.11ac(HT160). Only the worst case is recorded in the report.	
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	

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Measurement Data:

Test Mode	Test Channel	Frequency [MHz]	Meas. Level (Cond.)		Verdict
			ANT 1	ANT 2	
11A20	36	5180	-0.84	-1.37	PASS
	44	5200	4.32	3.74	PASS
	48	5240	4.21	3.92	PASS
	52	5260	4.52	4.81	PASS
	60	5280	5.27	4.64	PASS
	64	5320	0.41	-0.34	PASS
	100	5500	-0.34	-2.05	PASS
	116	5600	3.46	2.72	PASS
	140	5720	-1.05	-1.75	PASS
	149	5745	-3.63	-3.86	PASS
	157	5785	1.19	1.03	PASS
	165	5825	-3.00	-3.70	PASS
11N20	36	5180	-1.48	-1.81	PASS
	44	5200	3.68	3.40	PASS
	48	5240	4.01	3.88	PASS
	52	5260	4.49	4.39	PASS
	60	5280	4.91	4.60	PASS
	64	5320	-0.10	-0.71	PASS
	100	5500	-0.71	-2.23	PASS
	116	5600	3.22	2.36	PASS
	140	5720	-1.50	-2.15	PASS
	149	5745	-3.30	-3.58	PASS
	157	5785	1.18	1.33	PASS
	165	5825	-3.83	-3.30	PASS
11N40	38	5190	-5.71	-6.25	PASS
	46	5230	0.89	0.20	PASS
	54	5270	1.55	1.30	PASS
	62	5310	-5.55	-6.73	PASS
	102	5510	-5.23	-6.81	PASS
	110	5550	0.39	-0.63	PASS
	134	5670	-5.82	-7.41	PASS
	151	5755	-1.37	-1.73	PASS
	159	5795	-1.07	-1.41	PASS
11AC20	36	5180	-1.42	-2.03	PASS
	44	5200	3.65	3.31	PASS
	48	5240	4.11	3.52	PASS
	52	5260	4.18	4.01	PASS
	60	5280	4.62	4.49	PASS
	64	5320	-0.27	-0.44	PASS
	100	5500	-0.71	-2.39	PASS
	116	5600	3.04	2.32	PASS
	140	5720	-1.48	-1.76	PASS
	149	5745	-3.19	-3.95	PASS
	157	5785	1.29	1.36	PASS
	165	5825	-2.47	-3.35	PASS
11AC40	38	5190	-5.67	-6.33	PASS
	46	5230	0.96	0.13	PASS

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	54	5270	1.23	0.66	PASS
	62	5310	-5.64	-6.87	PASS
	102	5510	-4.91	-6.74	PASS
	110	5550	0.37	-0.11	PASS
	134	5670	-5.61	-7.22	PASS
	151	5755	-1.34	-1.88	PASS
	159	5795	-1.36	-1.47	PASS
11AC80	42	5210	-12.60	-13.12	PASS
	58	5290	-9.62	-11.98	PASS
	106	5530	-13.72	-12.94	PASS
	122	5610	-10.57	-14.62	PASS
	155	5775	-8.42	-8.56	PASS
11AC160	50	5250	-14.40	-14.69	PASS
	114	5570	-17.20	-16.26	PASS
11A20 CDD	36	5180	-0.72	-1.38	PASS
	44	5200	4.08	4.17	PASS
	48	5240	4.51	4.74	PASS
	52	5260	4.68	4.89	PASS
	60	5300	5.25	5.35	PASS
	64	5320	0.22	-0.27	PASS
	100	5500	-0.47	-1.44	PASS
	116	5580	3.51	3.54	PASS
	140	5700	-1.00	-2.85	PASS
	149	5745	-2.75	-3.87	PASS
	157	5785	1.05	0.92	PASS
	165	5825	-3.11	-4.33	PASS
11N20 MIMO	36	5180	-1.35	-1.42	PASS
	44	5200	4.24	4.91	PASS
	48	5240	4.08	4.88	PASS
	52	5260	4.90	5.41	PASS
	60	5300	4.72	5.73	PASS
	64	5320	-0.25	-0.19	PASS
	100	5500	-0.99	-1.37	PASS
	116	5580	3.44	3.61	PASS
	140	5700	-1.30	-0.75	PASS
	149	5745	-2.76	-3.52	PASS
	157	5785	1.33	1.51	PASS
	165	5825	-3.02	-3.91	PASS
11N40 MIMO	38	5190	-5.71	-5.77	PASS
	46	5230	0.59	1.28	PASS
	54	5270	1.13	2.13	PASS
	62	5310	-5.21	-5.94	PASS
	102	5510	-5.31	-6.59	PASS
	110	5550	-0.06	0.56	PASS
	134	5670	-5.85	-6.99	PASS
	151	5755	-0.75	-0.54	PASS
	159	5795	-0.51	-0.47	PASS
11AC20	36	5180	-1.03	-1.52	PASS

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MIMO	44	5200	3.84	3.75	PASS
	48	5240	4.29	4.20	PASS
	52	5260	4.38	4.82	PASS
	60	5300	4.93	5.37	PASS
	64	5320	-0.12	-0.80	PASS
	100	5500	-0.75	-2.23	PASS
	116	5580	3.27	2.87	PASS
	140	5700	-1.17	-2.39	PASS
	149	5745	-3.10	-3.63	PASS
	157	5785	1.67	0.65	PASS
	165	5825	-4.36	-4.23	PASS
11AC40 MIMO	38	5190	-5.81	-6.69	PASS
	46	5230	0.77	0.55	PASS
	54	5270	1.34	1.57	PASS
	62	5310	-5.75	-6.71	PASS
	102	5510	-5.32	-7.01	PASS
	110	5550	0.18	0.07	PASS
	134	5670	-5.77	-7.37	PASS
	151	5755	-0.56	-0.92	PASS
	159	5795	-0.81	-1.45	PASS
11AC80 MIMO	42	5210	-12.32	-12.85	PASS
	58	5290	-10.11	-10.26	PASS
	106	5530	-12.75	-13.69	PASS
	122	5610	-12.03	-12.06	PASS
	155	5775	-7.72	-8.94	PASS
11AC160 MIMO	50	5250	-14.34	-14.48	PASS
	114	5570	-16.76	-17.83	PASS

Note：CH50(5250MHz) of the full band (160MHz) both meet the requirements for 5150MHz-5250MHz and 5250MHz-5350MHz.

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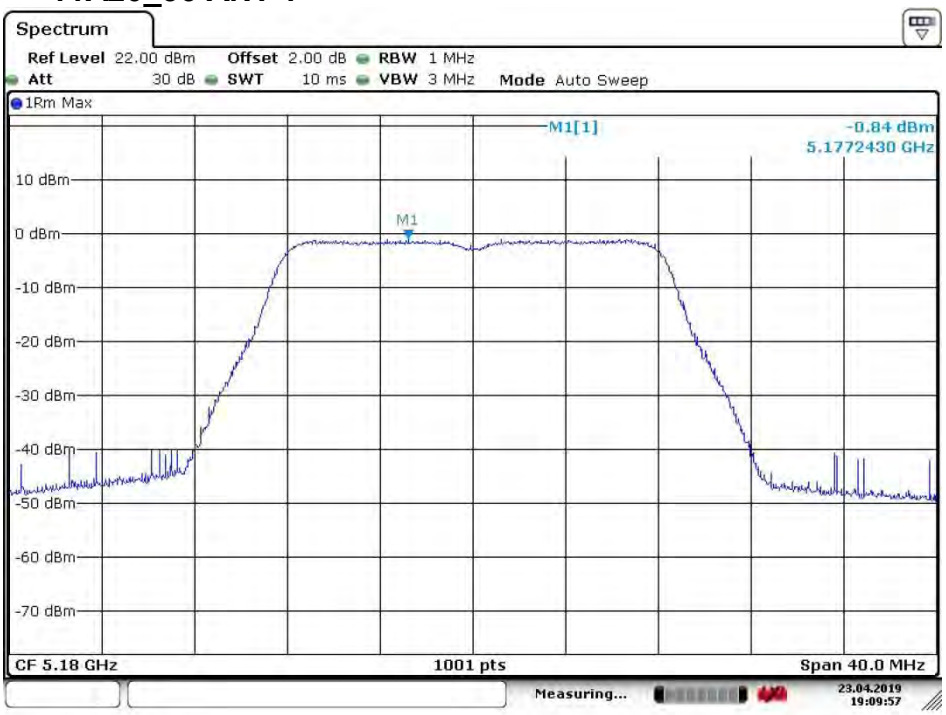
4.7.1 Test plots

4.7.1.1 11A20_36 ANT 1



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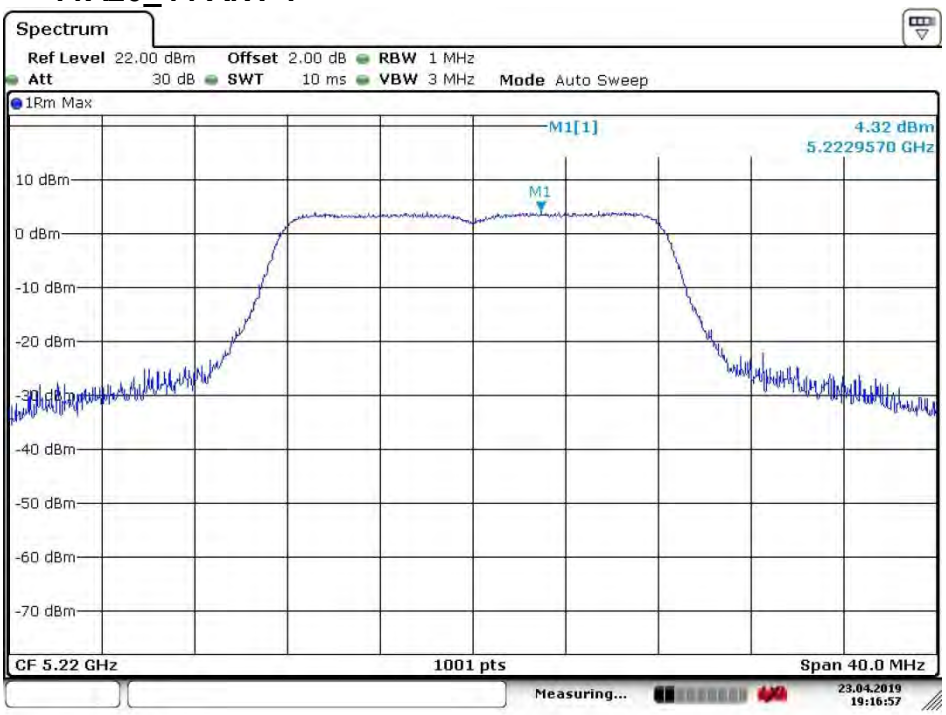
4.7.1.2 11A20_44 ANT 1



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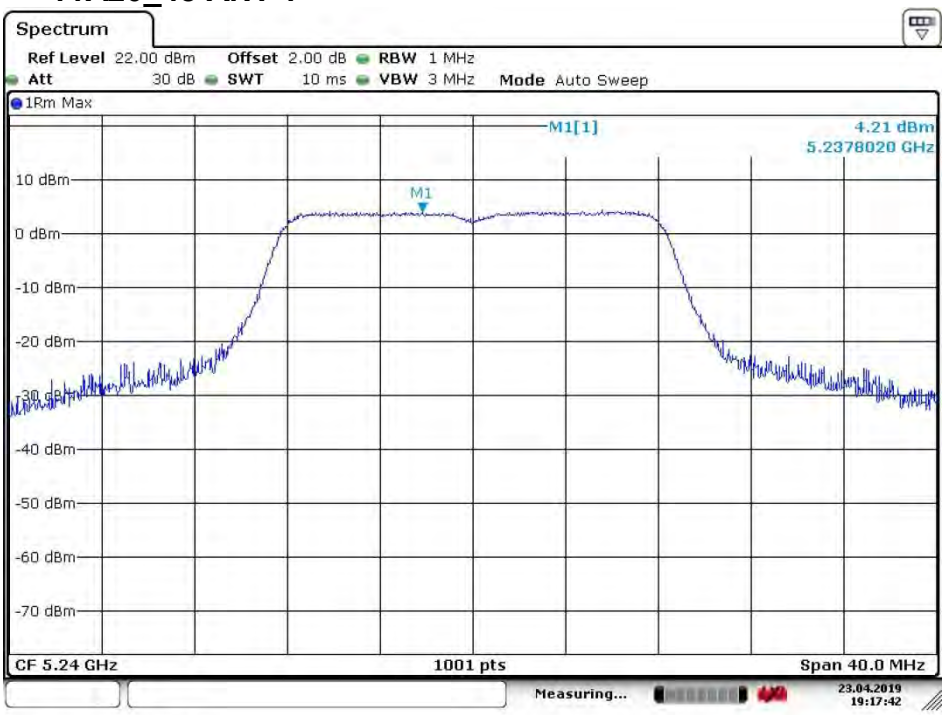
4.7.1.3 11A20_48 ANT 1



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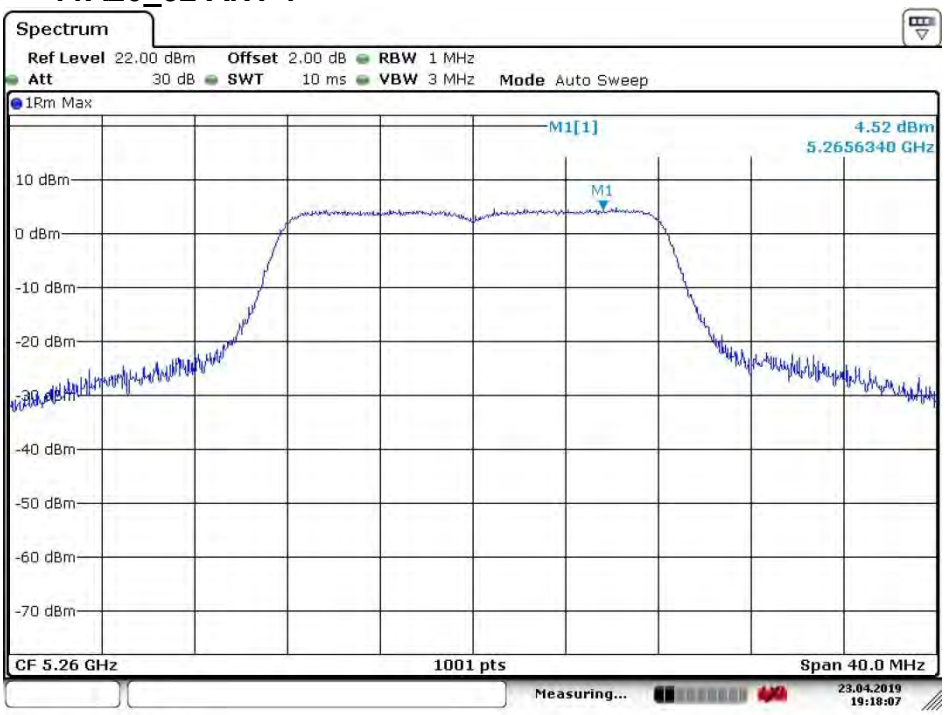
4.7.1.4 11A20_52 ANT 1



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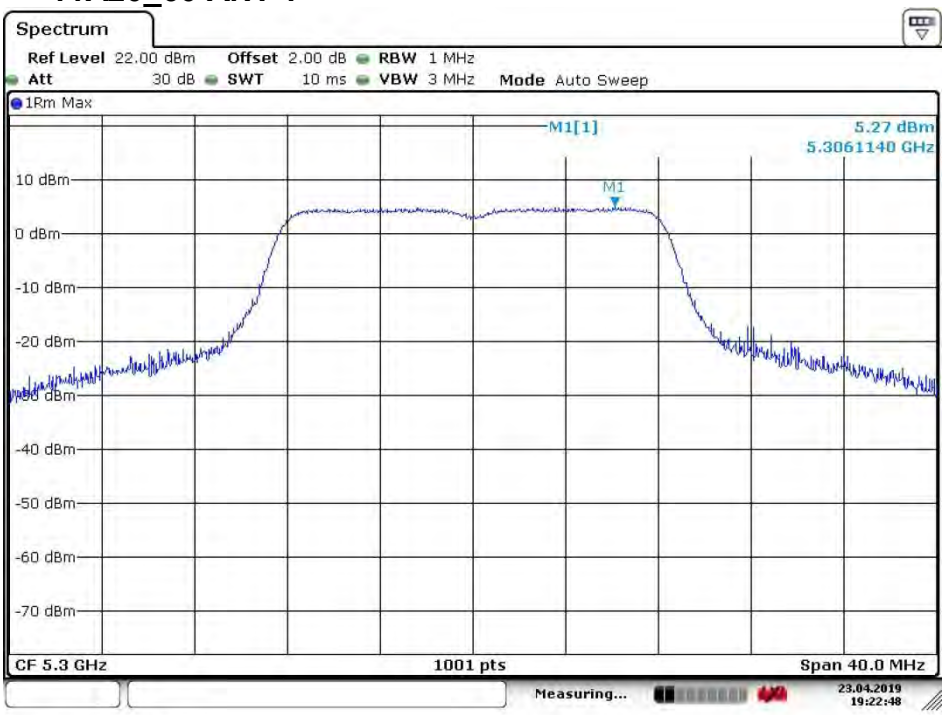
4.7.1.5 11A20_60 ANT 1



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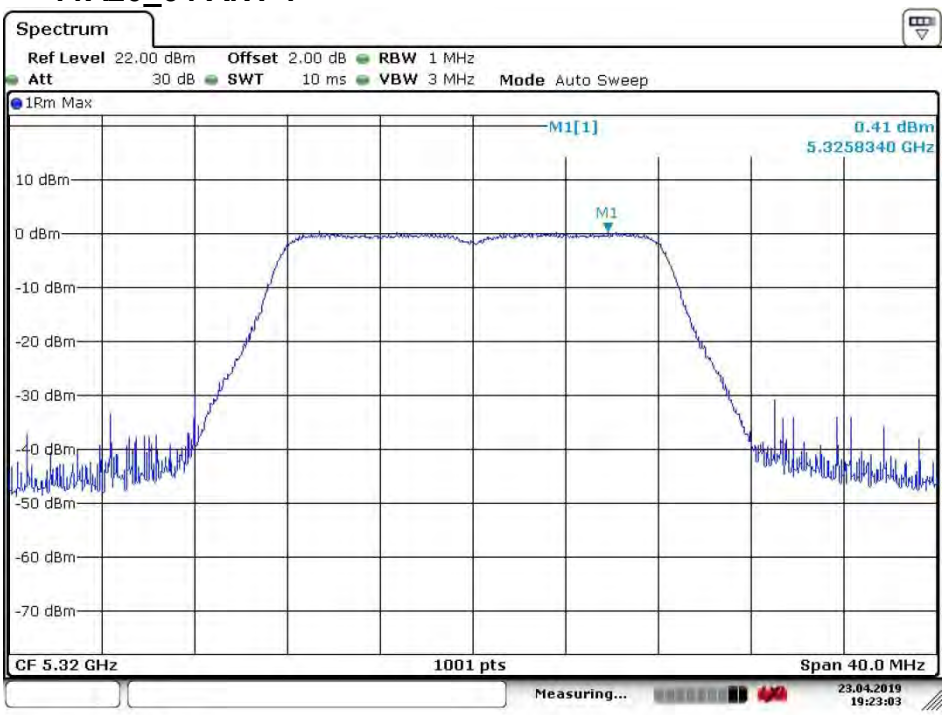
4.7.1.6 11A20_64 ANT 1



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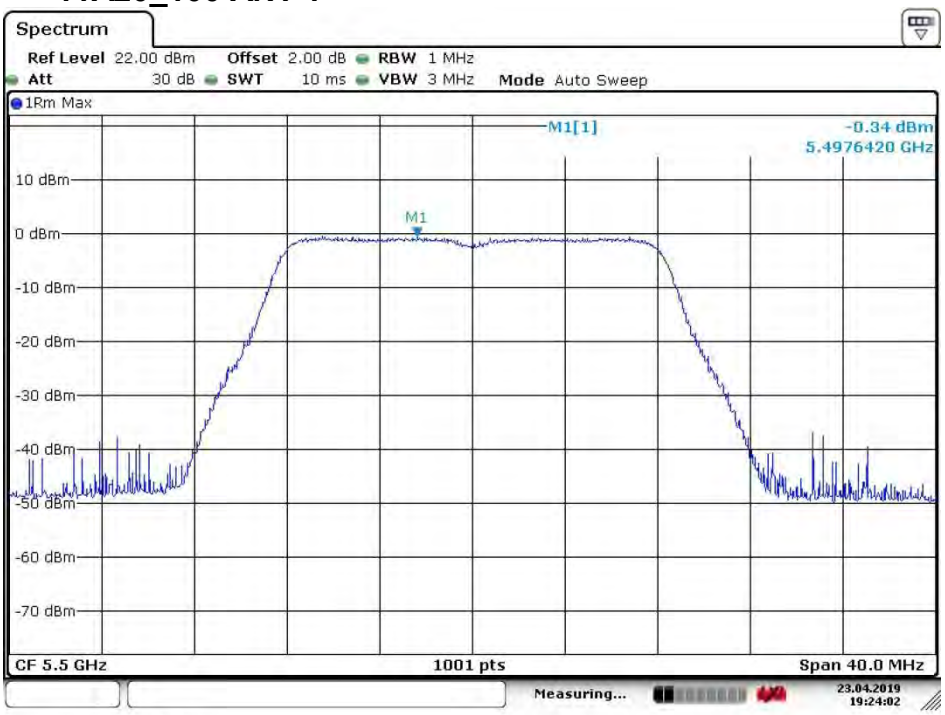
4.7.1.7 11A20_100 ANT 1



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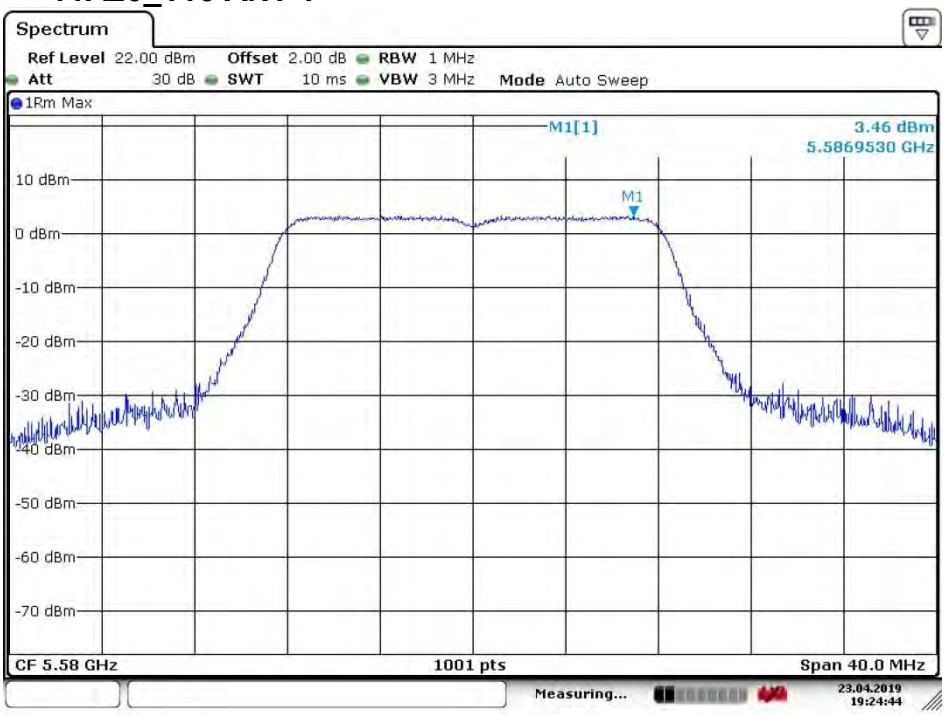
4.7.1.8 11A20_116 ANT 1



Date: 23.APR.2019 19:24:45

4.7.1.9 11A20_140 ANT 1

Date: 23.APR.2019 19:25:52

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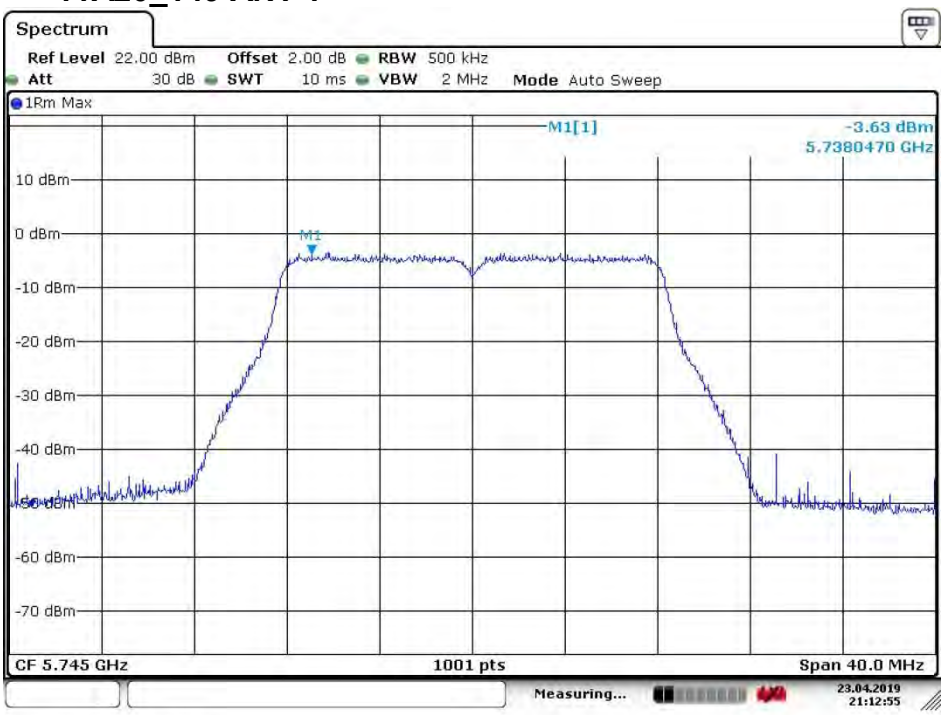
4.7.1.10 11A20_149 ANT 1



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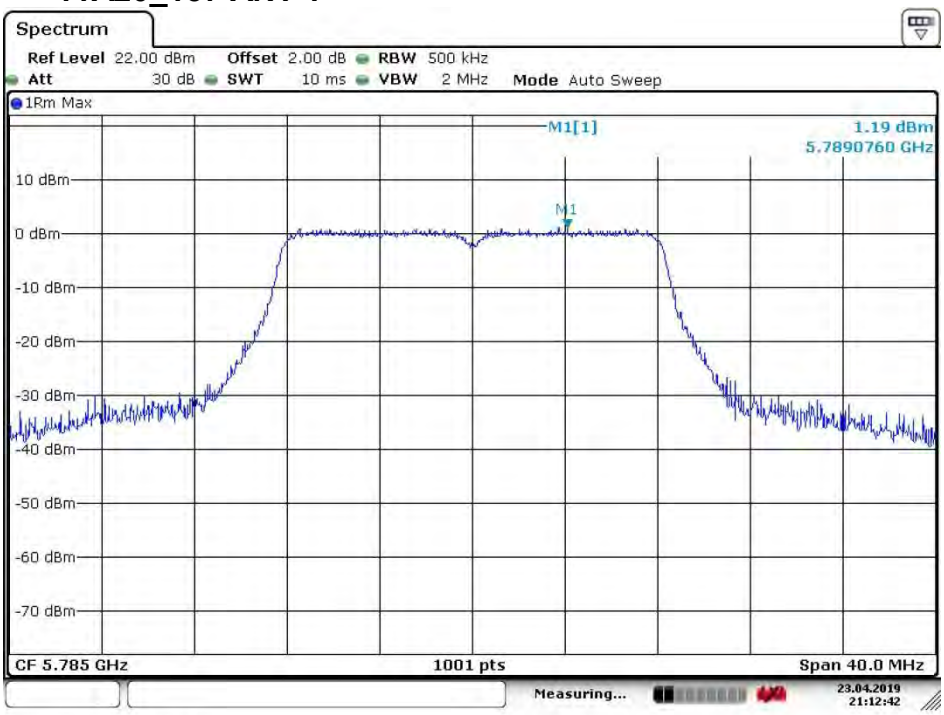
4.7.1.11 11A20_157 ANT 1



Date: 23.APR.2019 21:12:42

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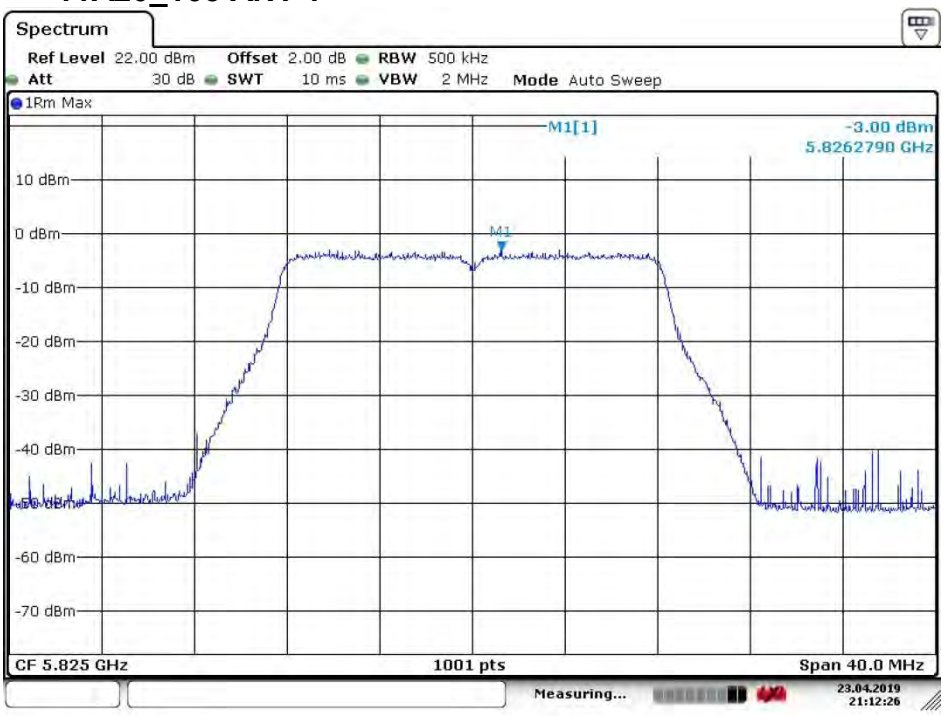
4.7.1.12 11A20_165 ANT 1



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4.7.1.13 11N20_36 ANT 1

Date: 23.APR.2019 19:26:48

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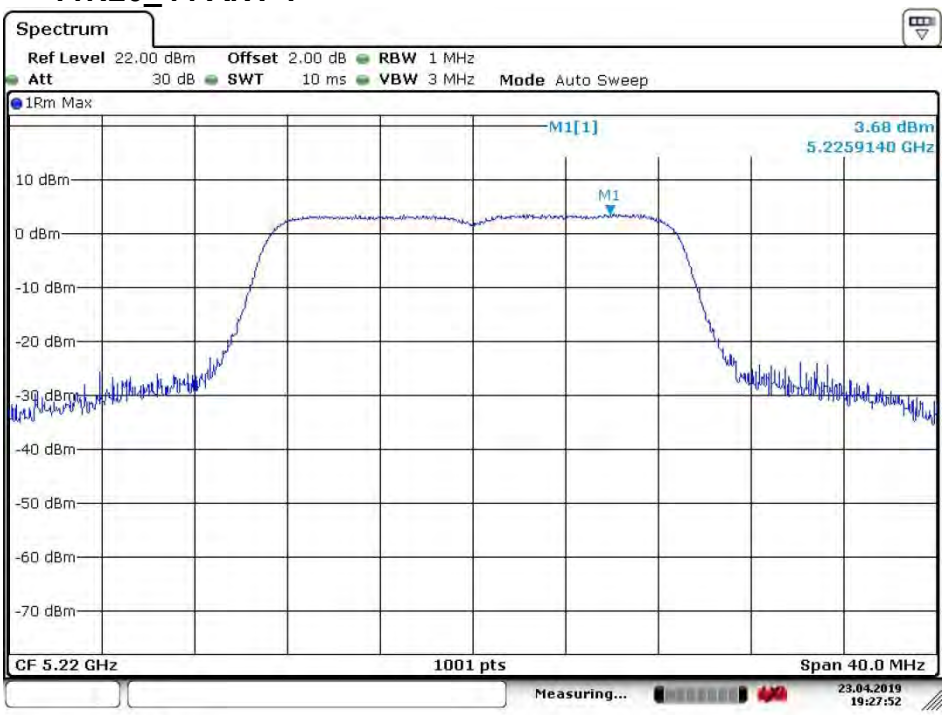
4.7.1.14 11N20_44 ANT 1



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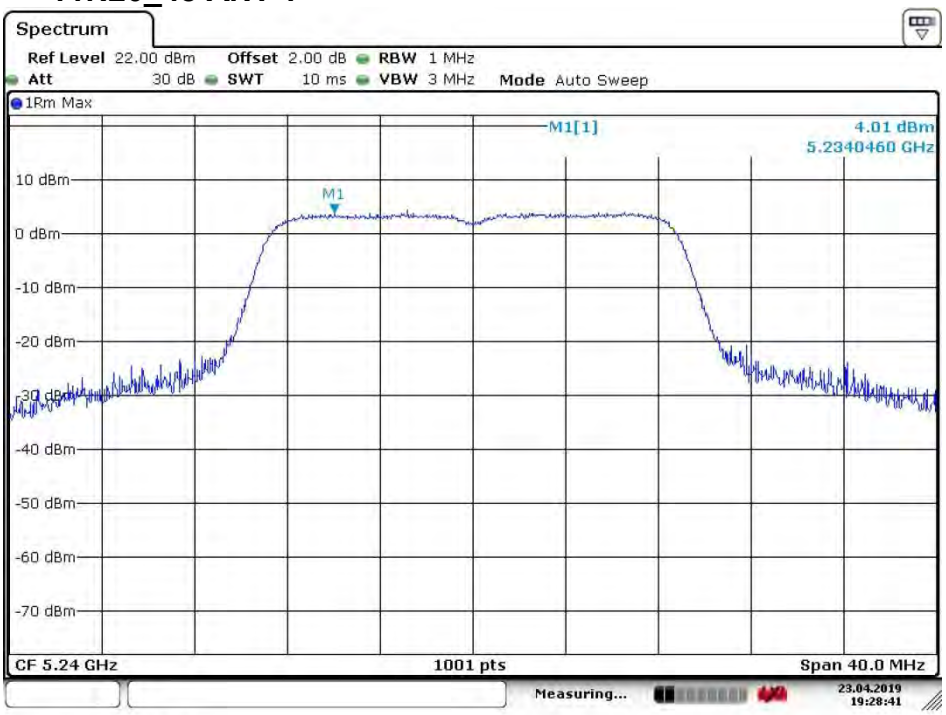
4.7.1.15 11N20_48 ANT 1



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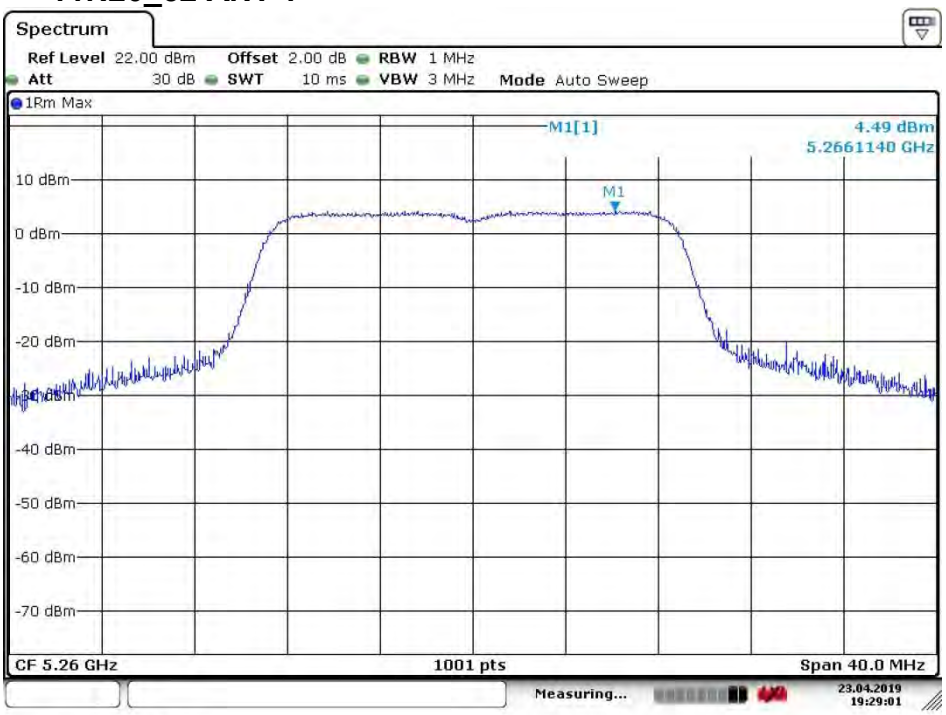
4.7.1.16 11N20_52 ANT 1



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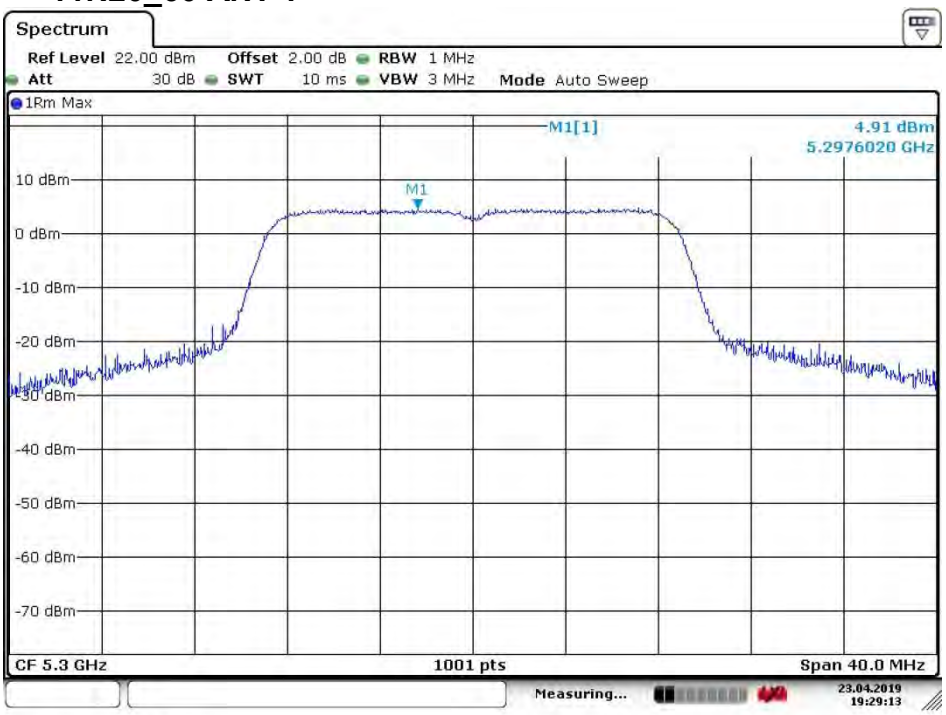
4.7.1.17 11N20_60 ANT 1



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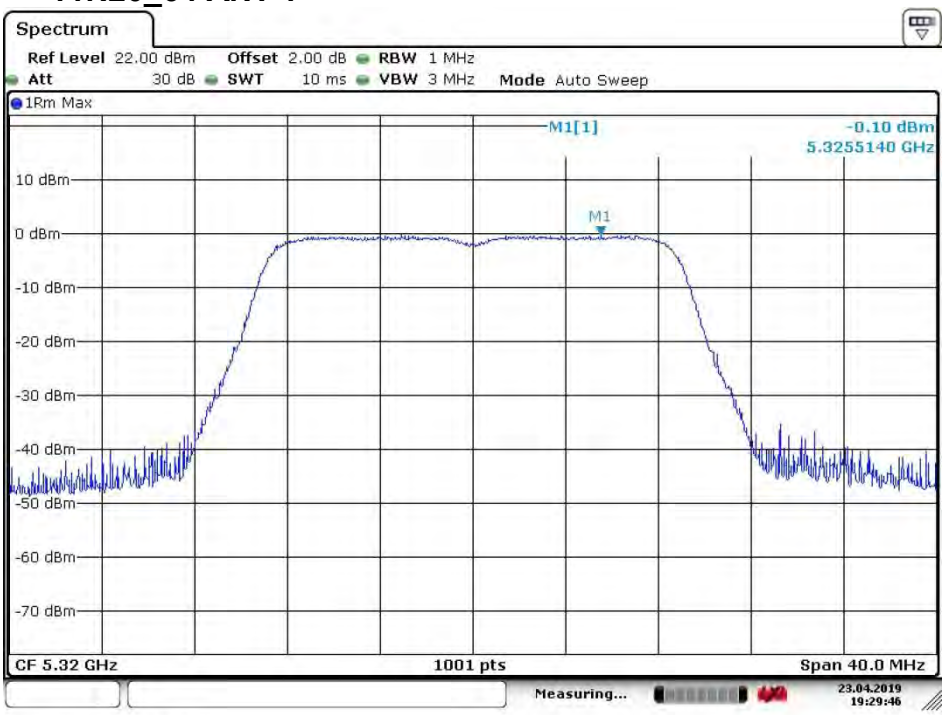
4.7.1.18 11N20_64 ANT 1



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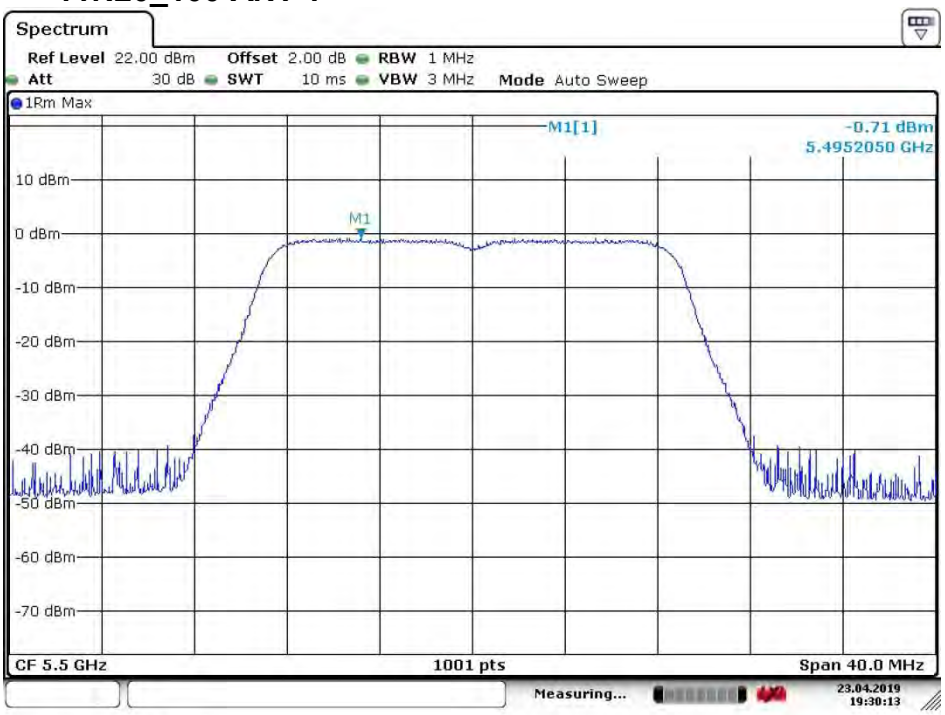
4.7.1.19 11N20_100 ANT 1



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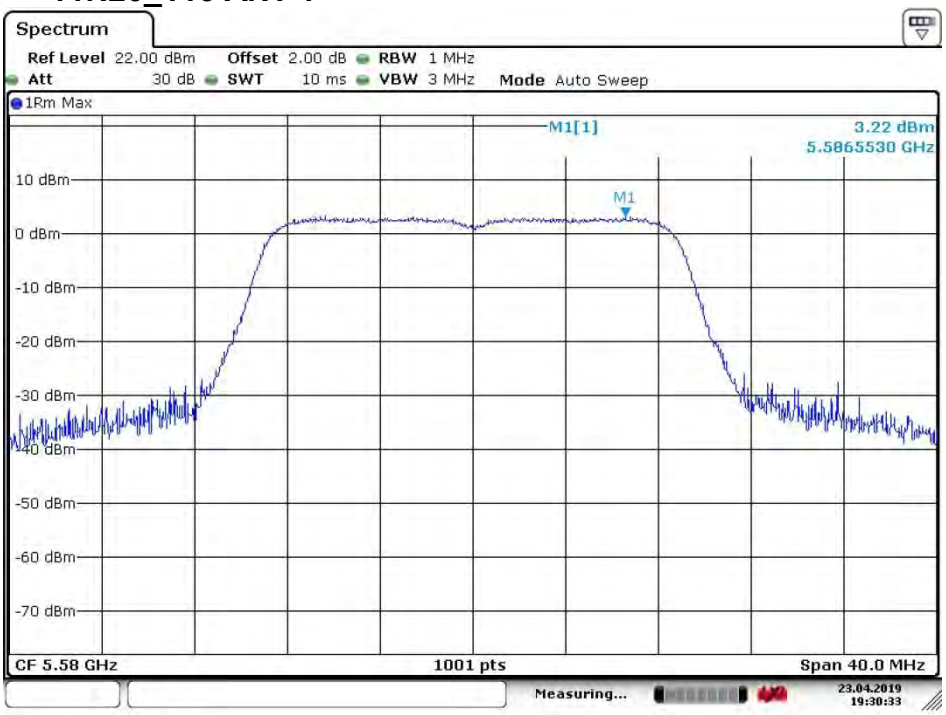
4.7.1.20 11N20_116 ANT 1



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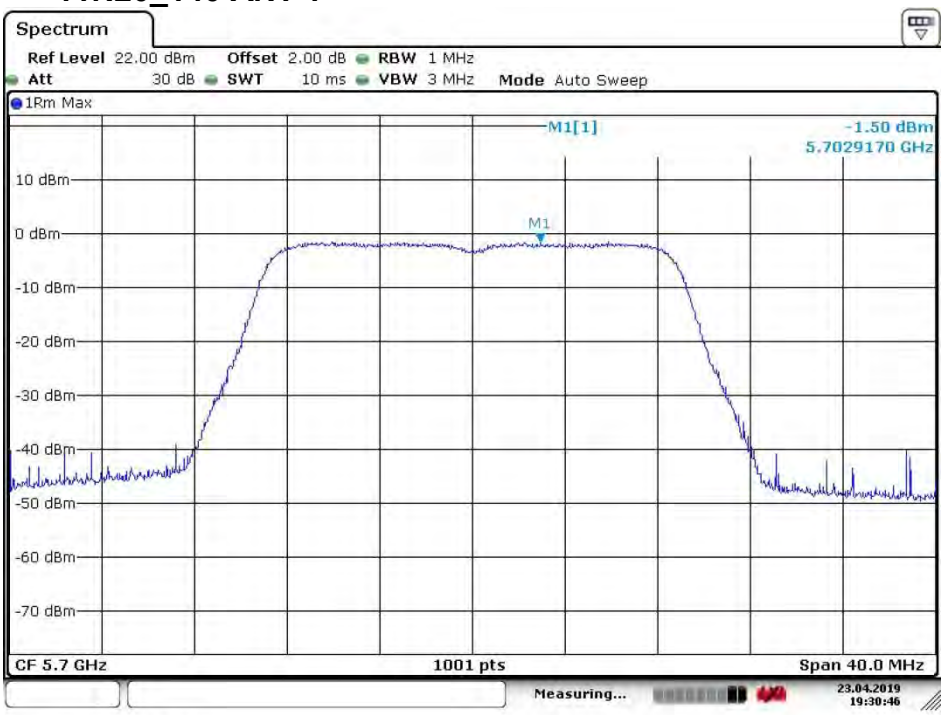
4.7.1.21 11N20_140 ANT 1



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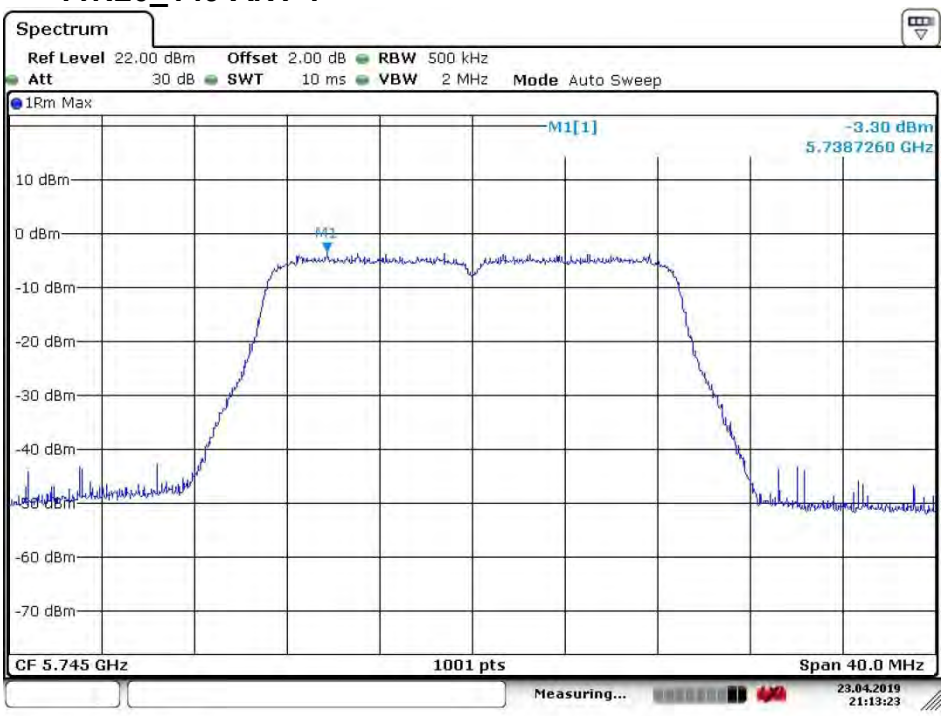
4.7.1.22 11N20_149 ANT 1



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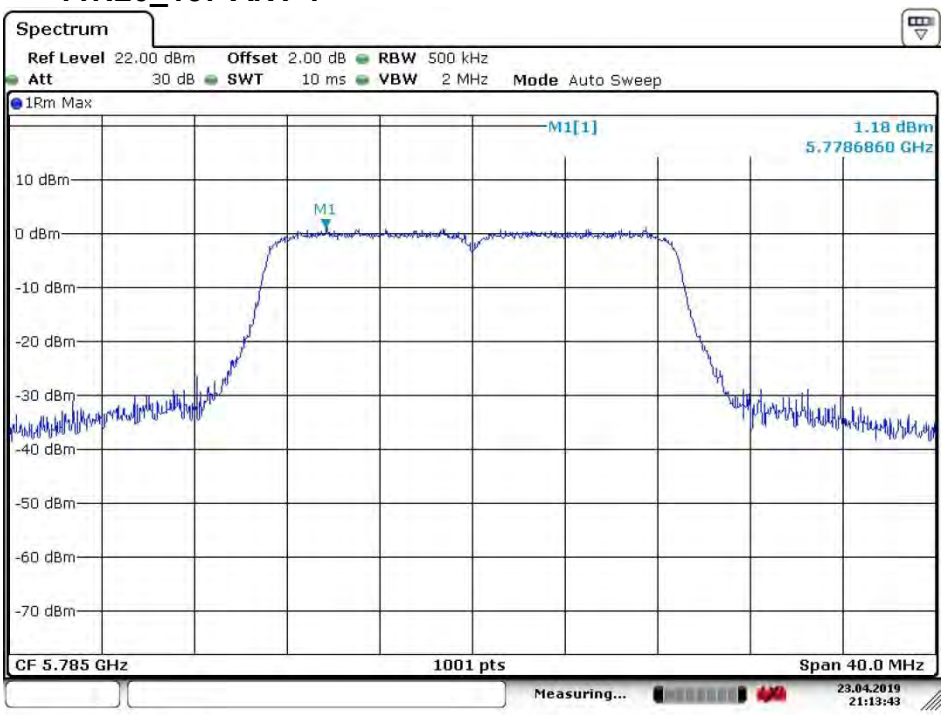

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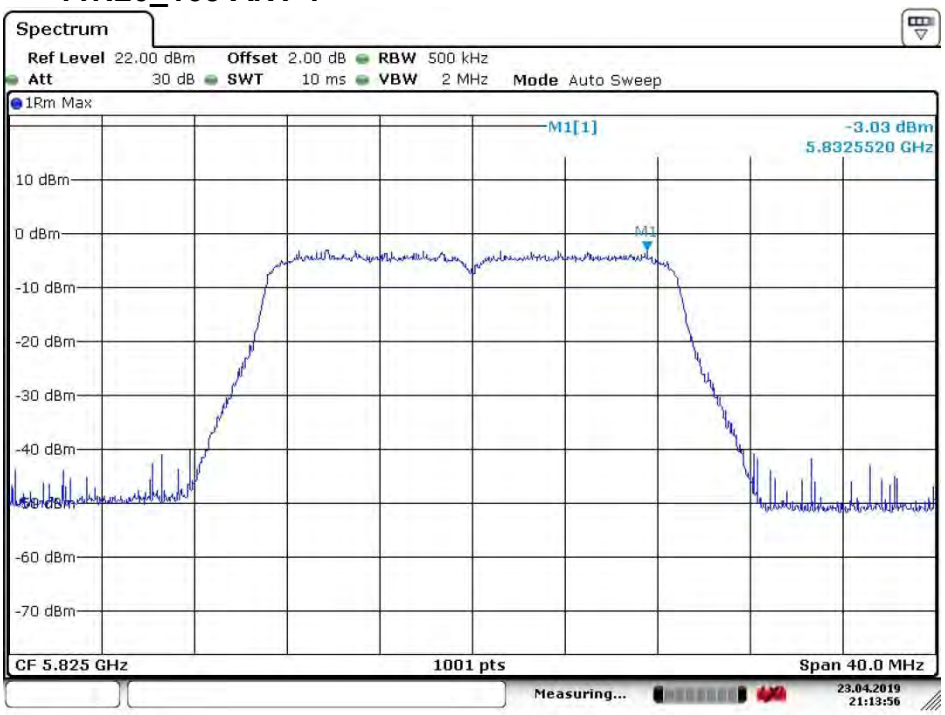
4.7.1.24 11N20_165 ANT 1



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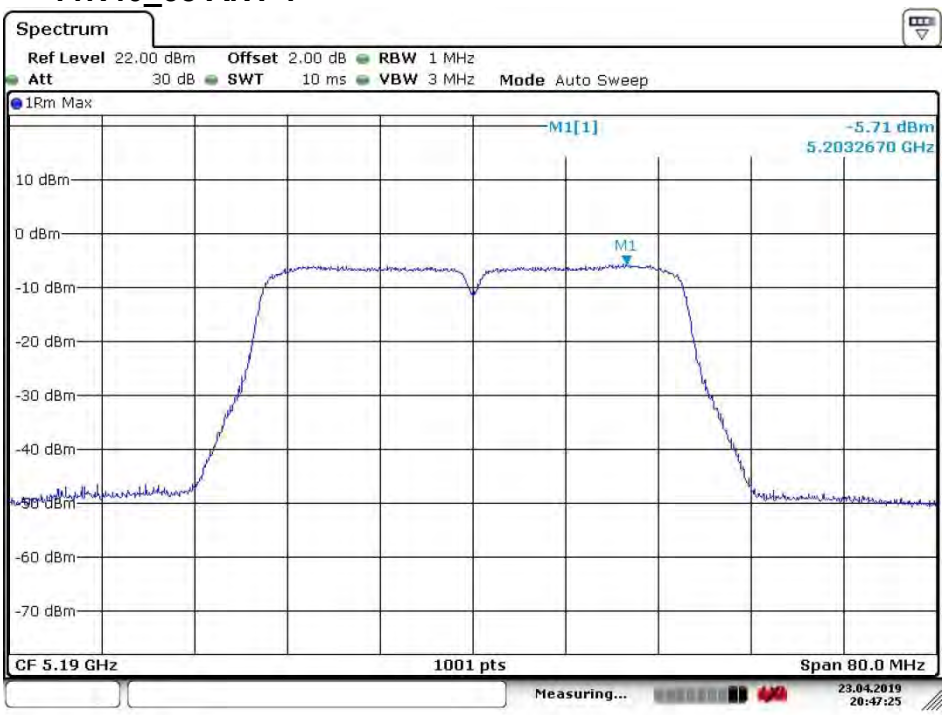
4.7.1.25 11N40_38 ANT 1



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4.7.1.26 11N40_46 ANT 1

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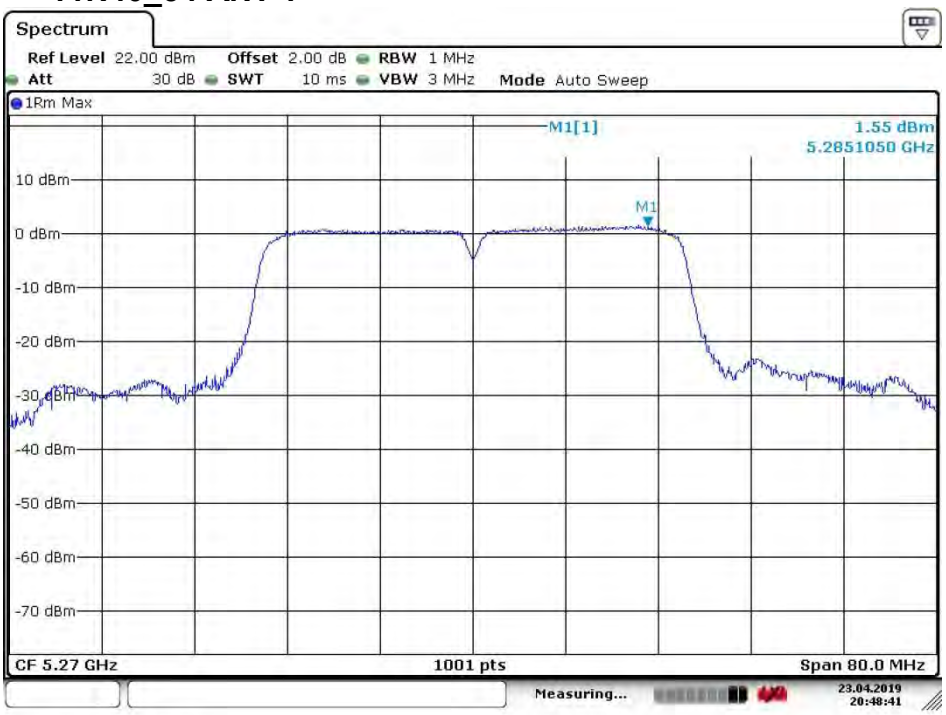
4.7.1.27 11N40_54 ANT 1



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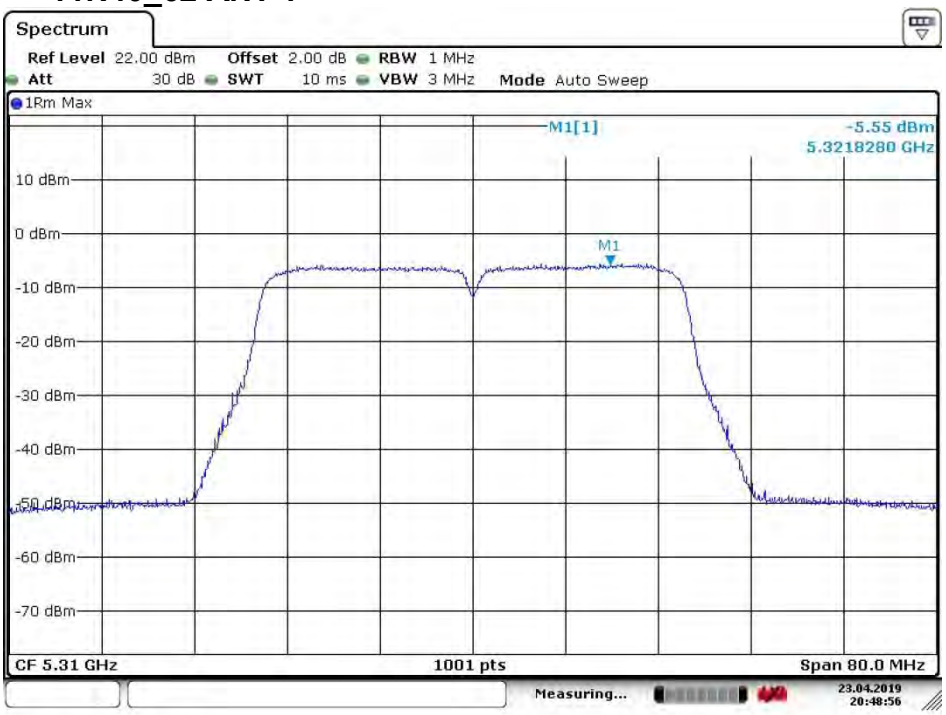
4.7.1.28 11N40_62 ANT 1



Date: 23.APR.2019 20:48:56

4.7.1.29 11N40_102 ANT 1

Date: 23.APR.2019 20:49:11

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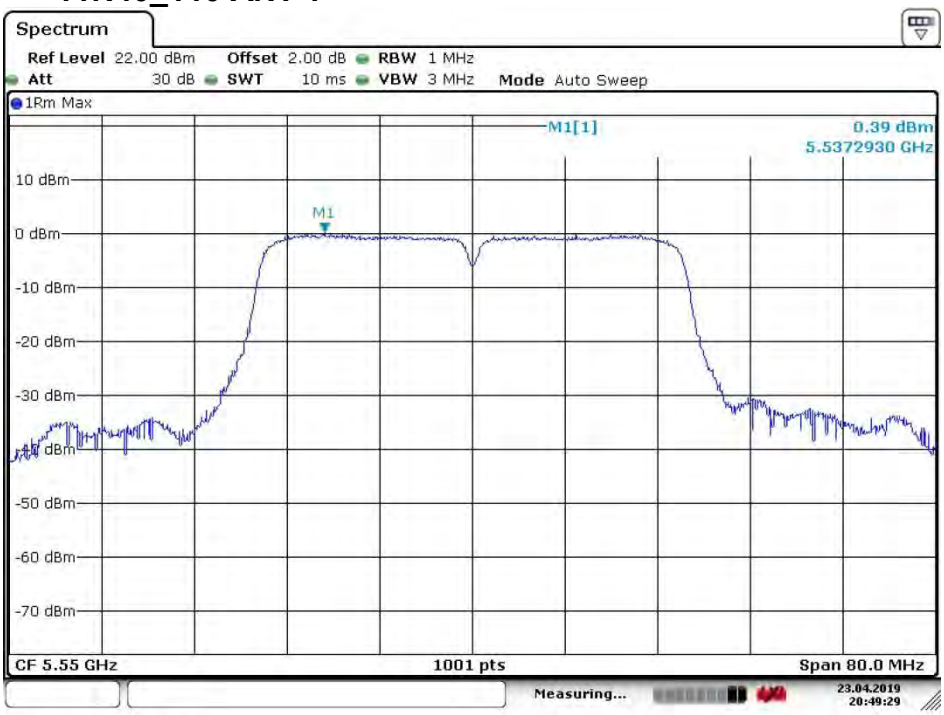
4.7.1.30 11N40_110 ANT 1



Date: 23.APR.2019 20:49:30

4.7.1.31 11N40_134 ANT 1

Date: 23.APR.2019 20:49:56

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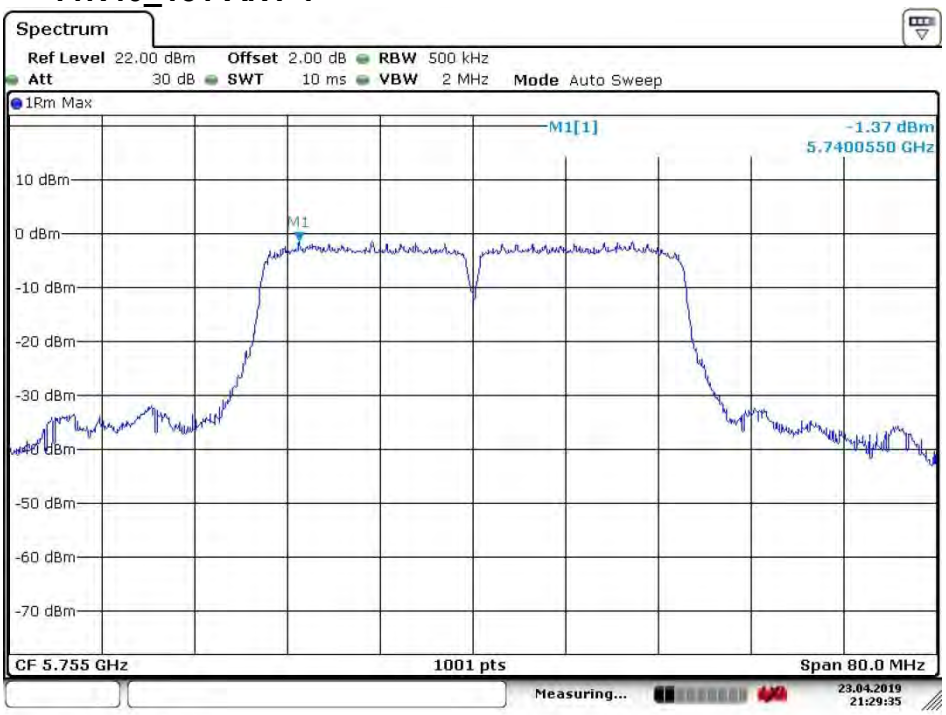
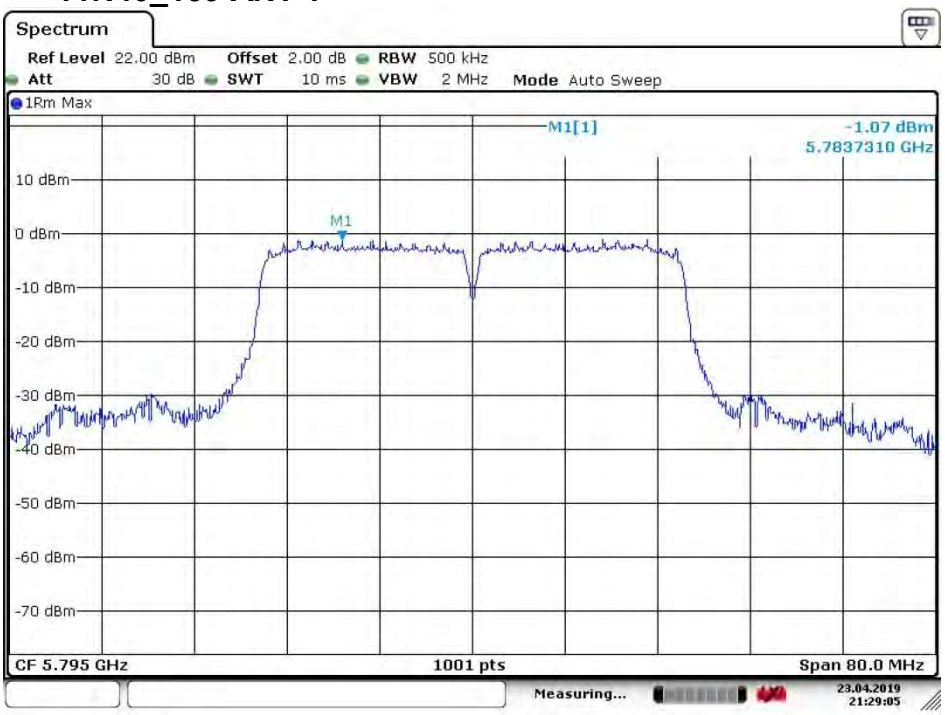
4.7.1.32 11N40_151 ANT 1



Date: 23.APR.2019 21:29:35

4.7.1.33 11N40_159 ANT 1



Date: 23.APR.2019 21:29:06

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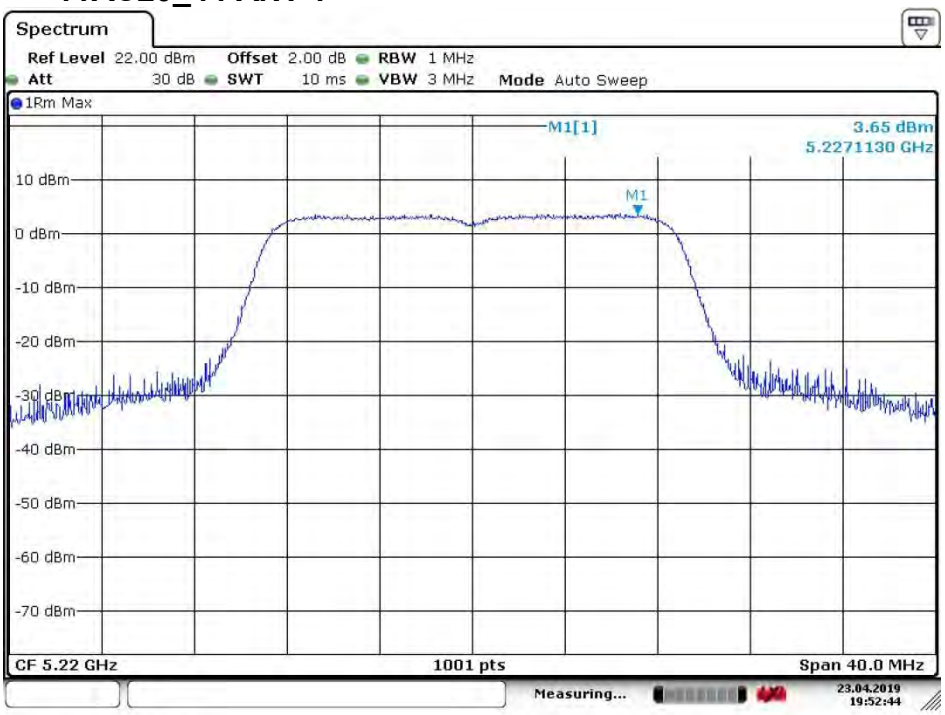
4.7.1.34 11AC20_36 ANT 1

Date: 23.APR.2019 19:52:29

4.7.1.35 11AC20_44 ANT 1



Date: 23.APR.2019 19:52:45

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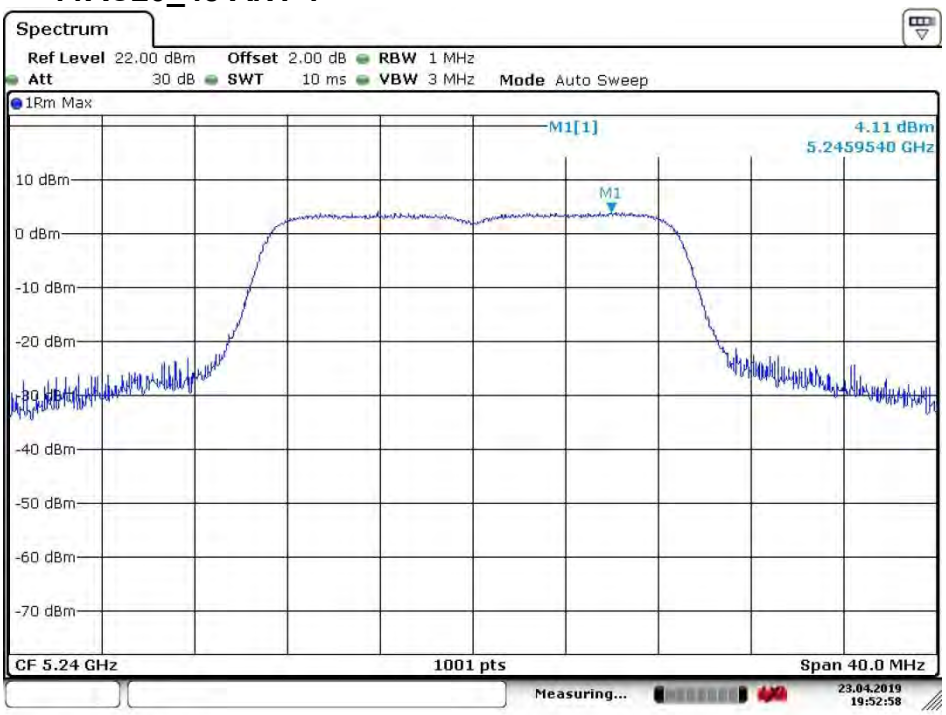
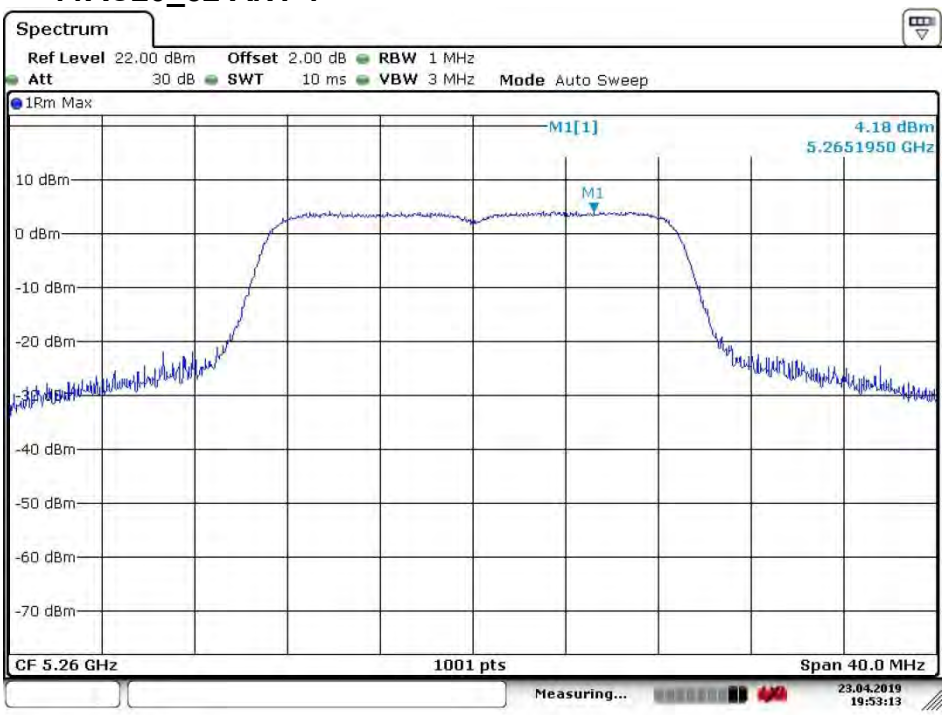
4.7.1.36 11AC20_48 ANT 1



Date: 23.APR.2019 19:52:58

4.7.1.37 11AC20_52 ANT 1



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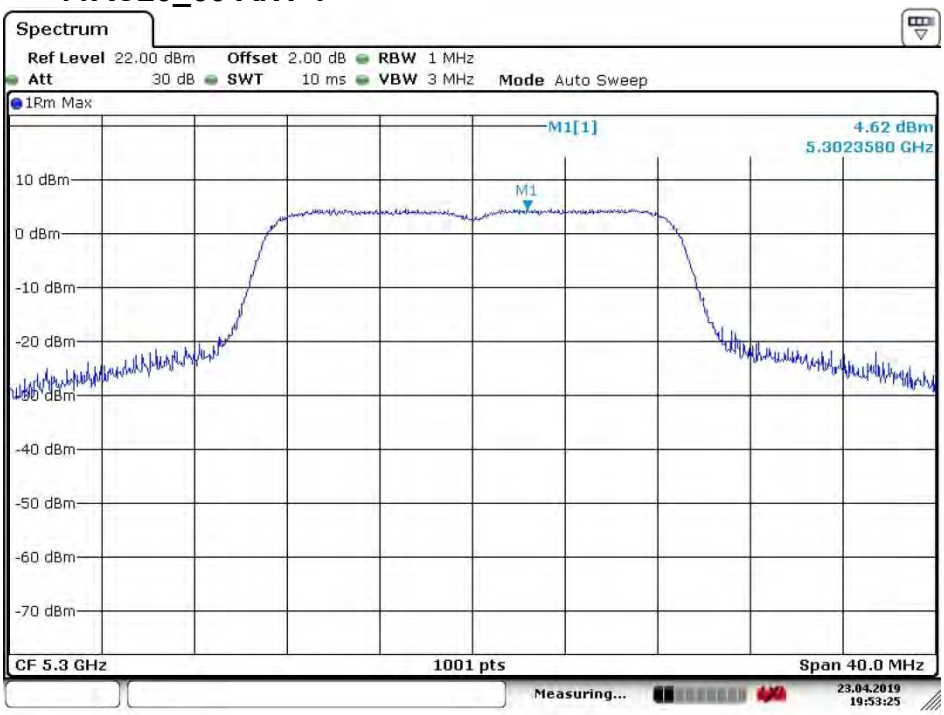
4.7.1.38 11AC20_60 ANT 1



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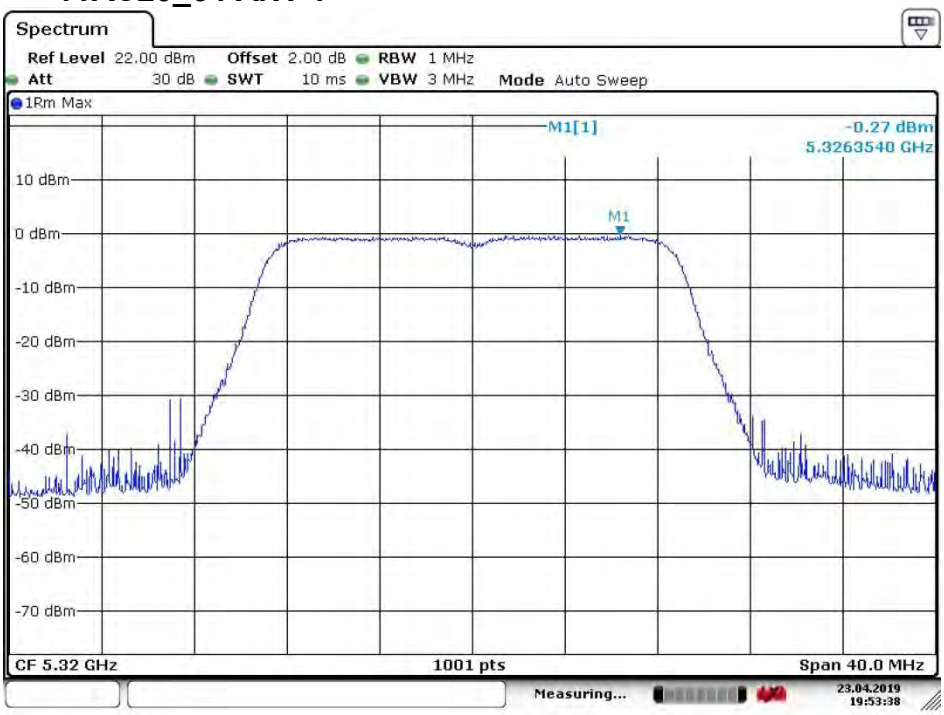
4.7.1.39 11AC20_64 ANT 1



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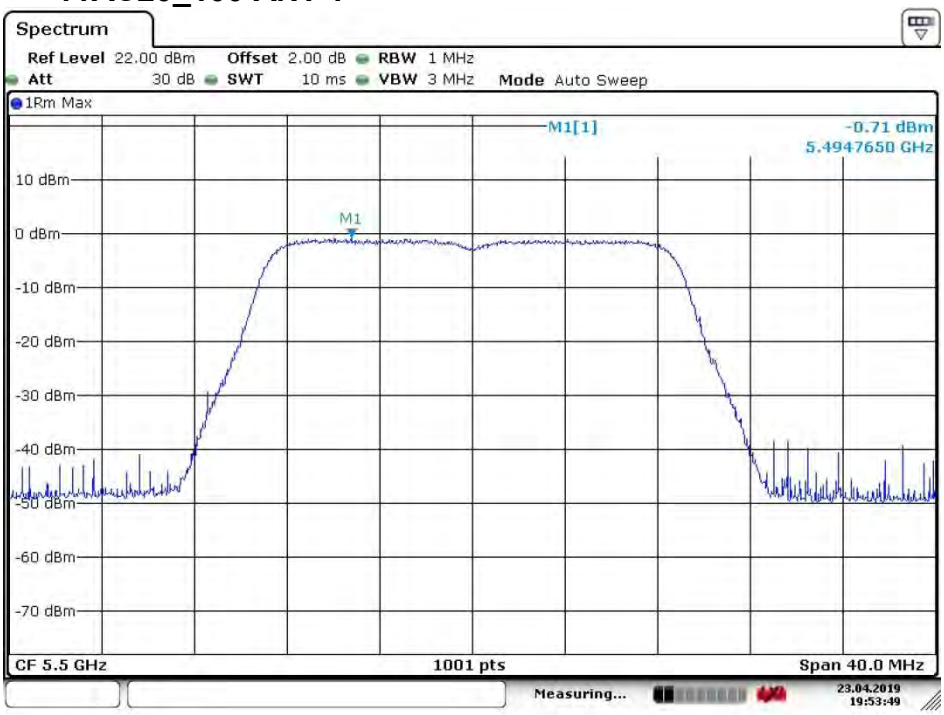
4.7.1.40 11AC20_100 ANT 1



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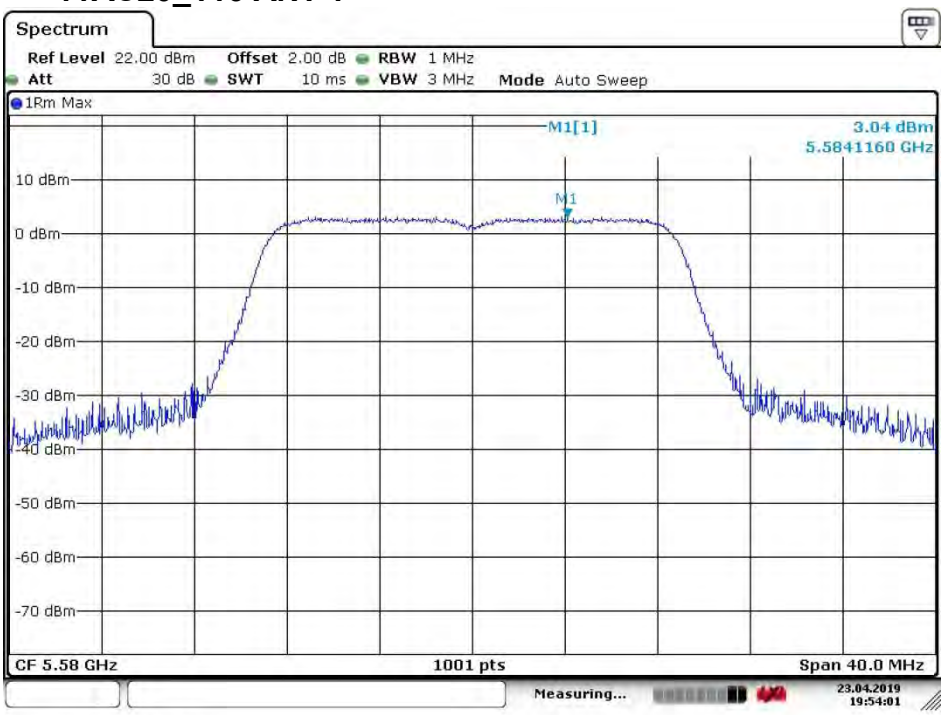
4.7.1.41 11AC20_116 ANT 1



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4.7.1.42 11AC20_140 ANT 1

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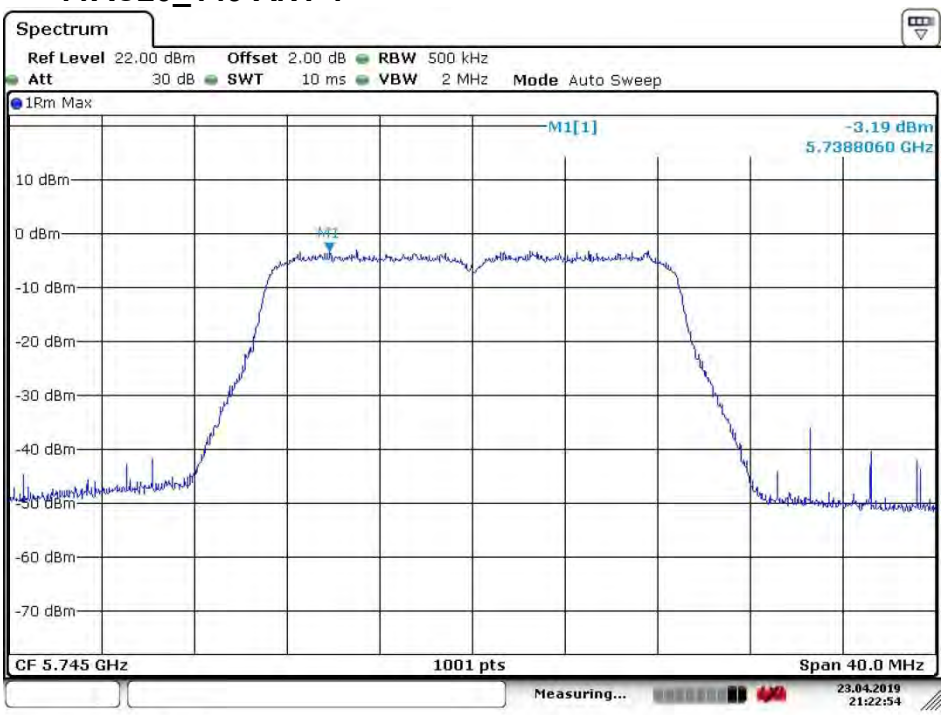
4.7.1.43 11AC20_149 ANT 1



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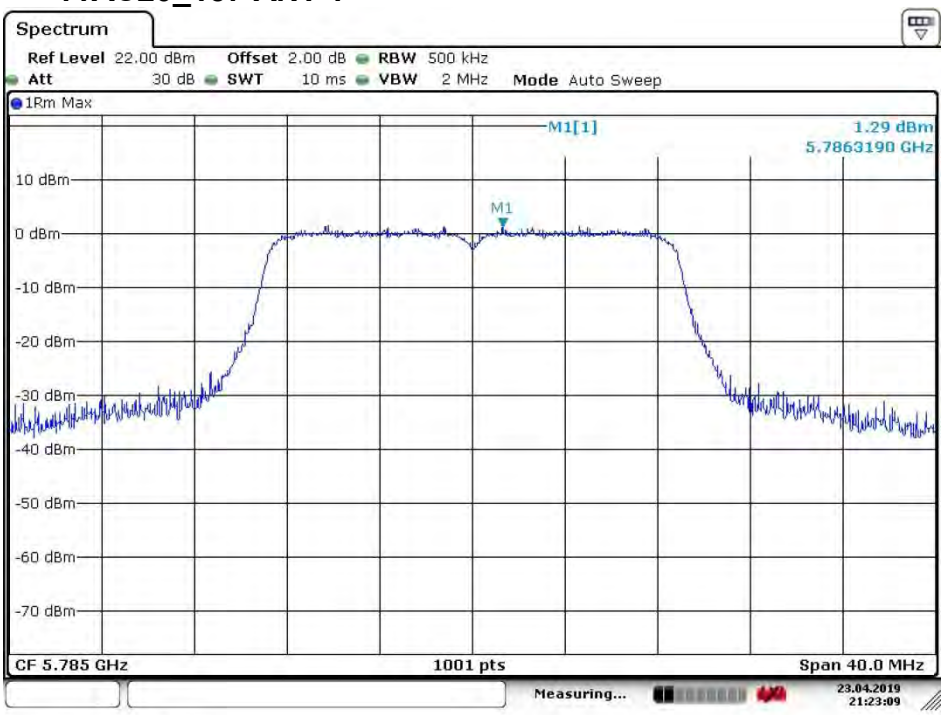
4.7.1.44 11AC20_157 ANT 1



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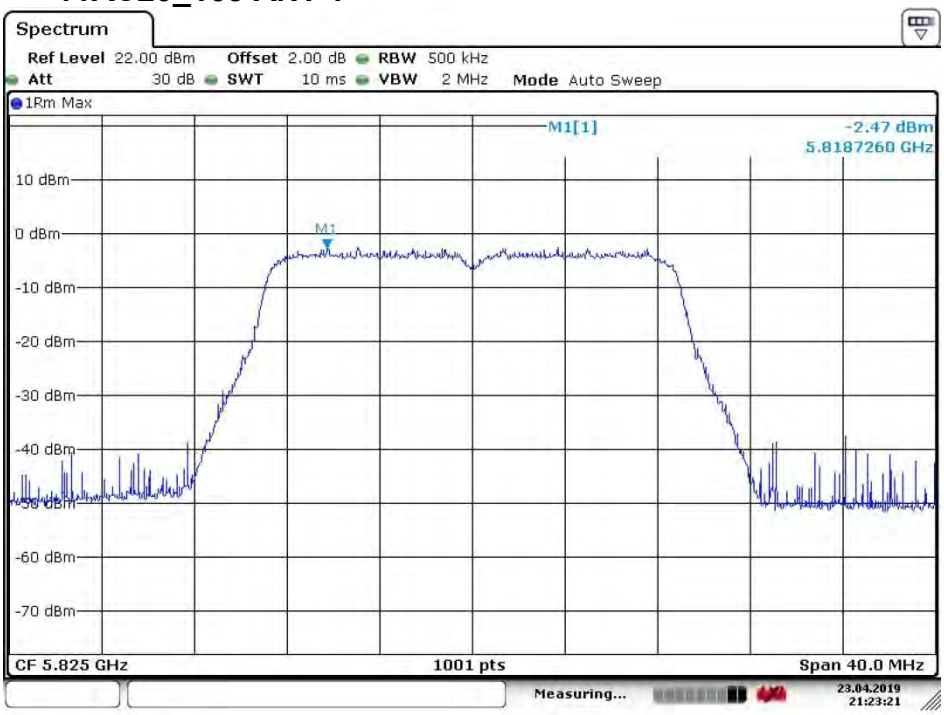

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4.7.1.46 11AC40_38 ANT 1

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4.7.1.47 11AC40_46 ANT 1

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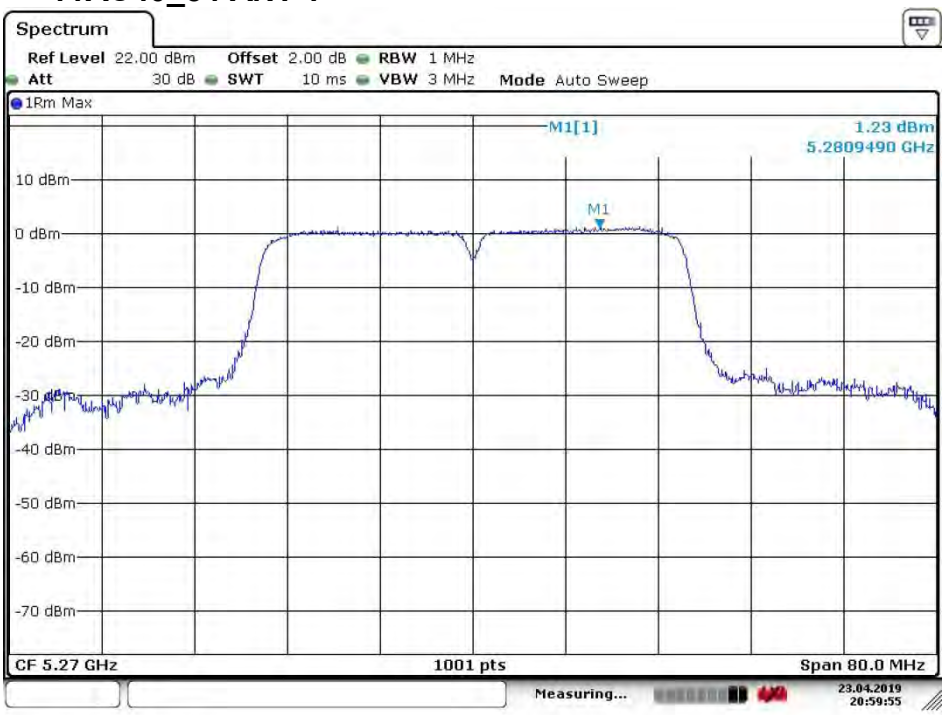
4.7.1.48 11AC40_54 ANT 1



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4.7.1.49 11AC40_62 ANT 1

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4.7.1.50 11AC40_102 ANT 1

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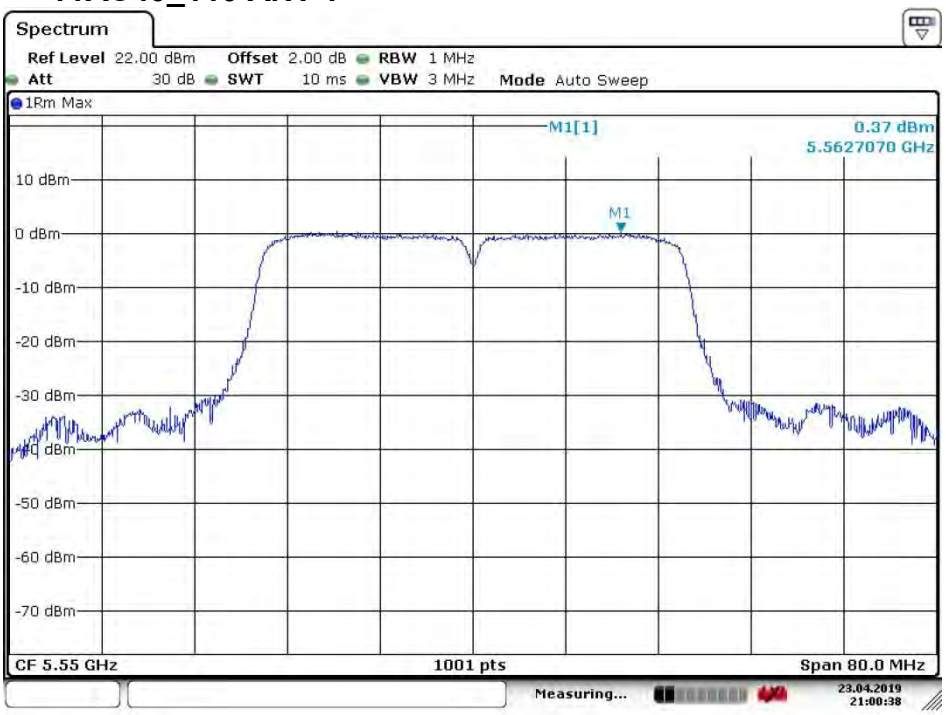
4.7.1.51 11AC40_110 ANT 1



Date: 23.APR.2019 21:00:38

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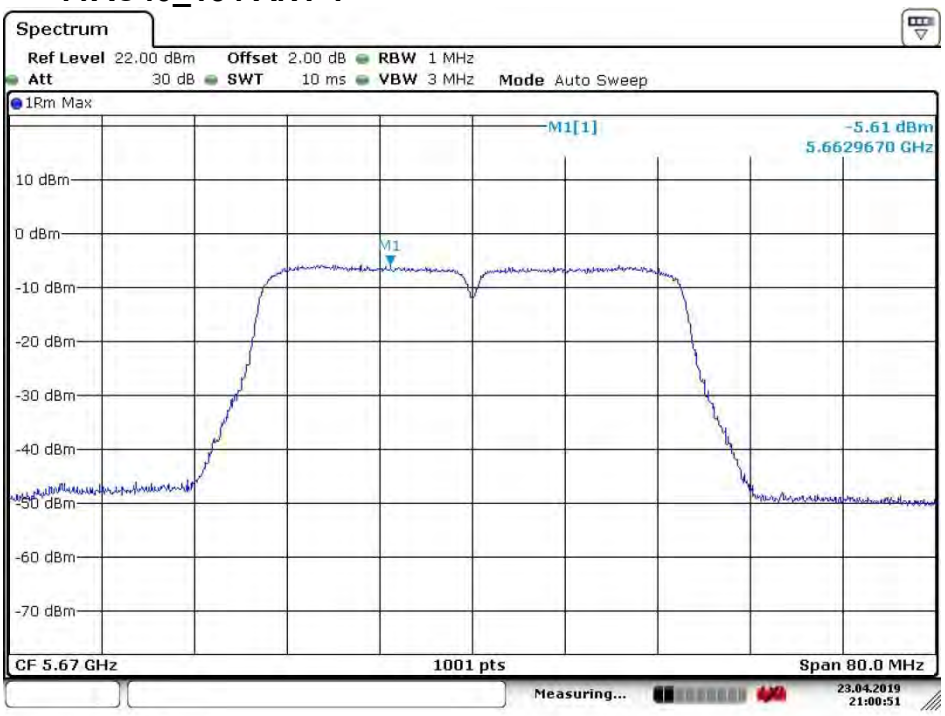
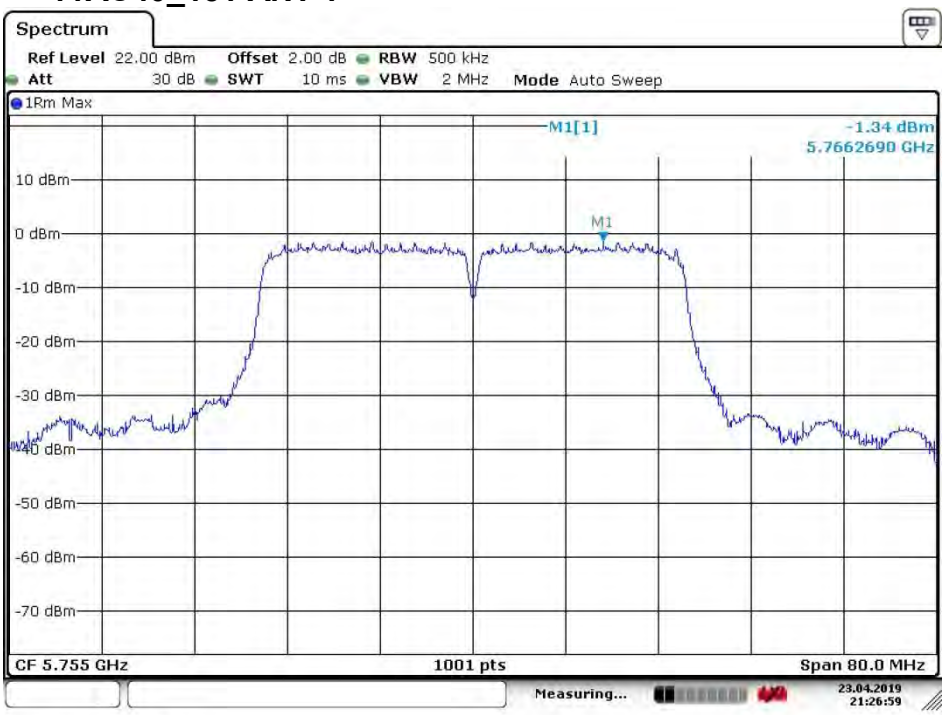
4.7.1.52 11AC40_134 ANT 1



Date: 23.APR.2019 21:00:51

4.7.1.53 11AC40_151 ANT 1



Date: 23.APR.2019 21:27:00

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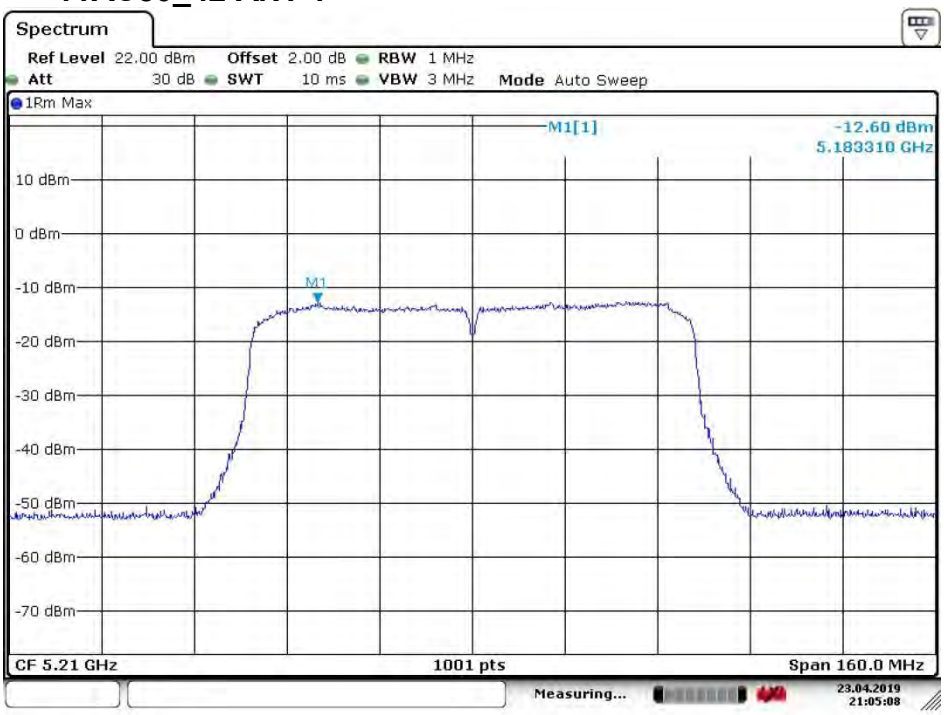
4.7.1.54 11AC40_159 ANT 1

Date: 23.APR.2019 21:27:18

4.7.1.55 11AC80_42 ANT 1



Date: 23.APR.2019 21:05:09

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4.7.1.56 11AC80_58 ANT 1

Date: 23.APR.2019 21:05:27

4.7.1.57 11AC80_106 ANT 1

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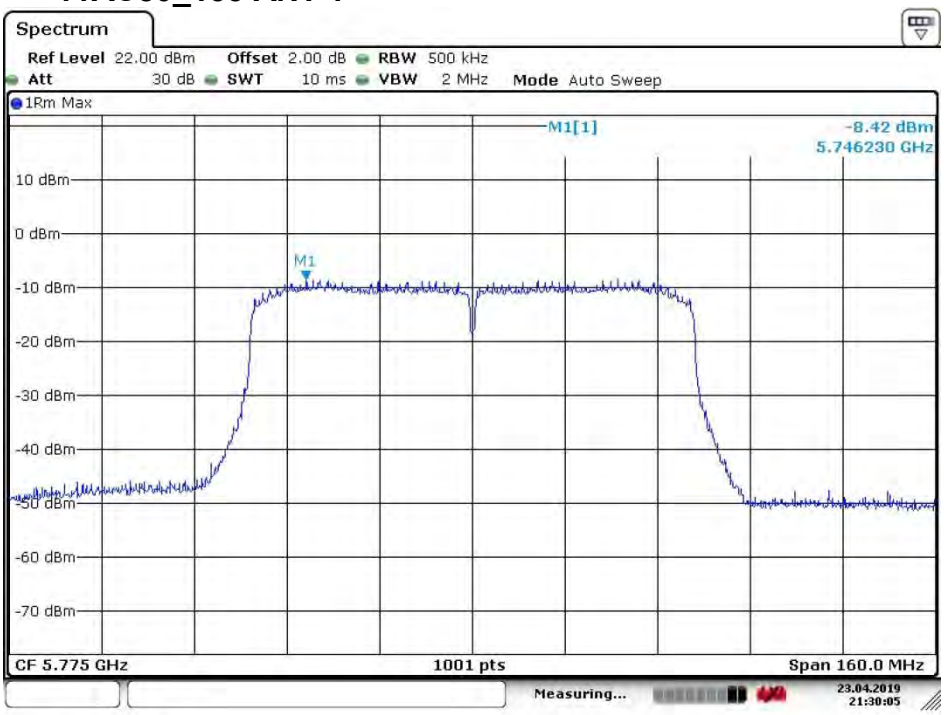
4.7.1.58 11AC80_138 ANT 1

Date: 23.APR.2019 21:05:53

4.7.1.59 11AC80_155 ANT 1



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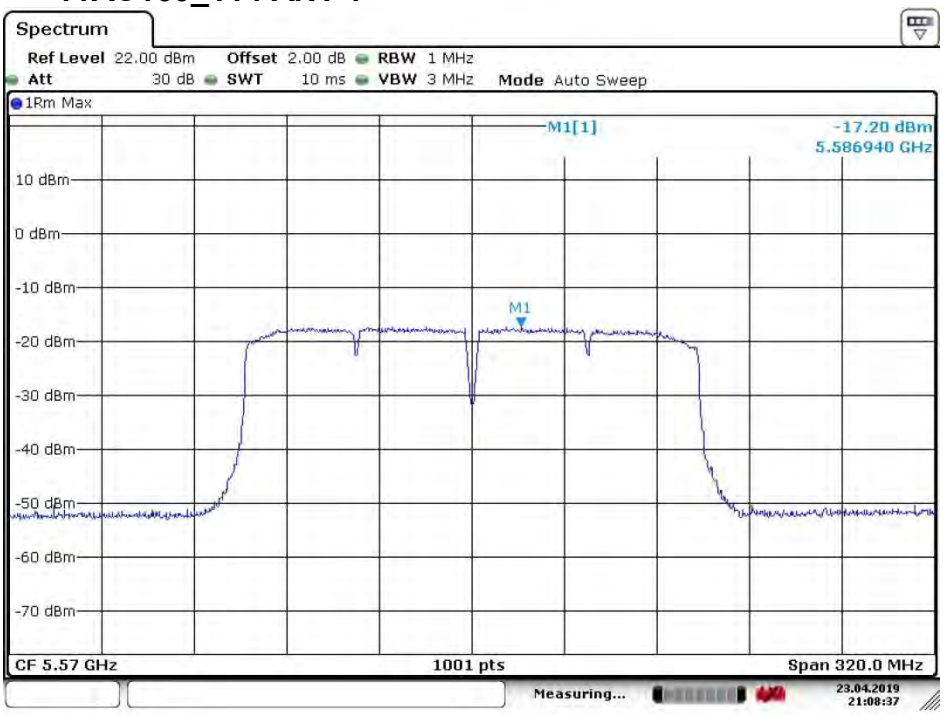
4.7.1.60 11AC160_50 ANT 1

Date: 23.APR.2019 21:08:13

4.7.1.61 11AC160_114 ANT 1



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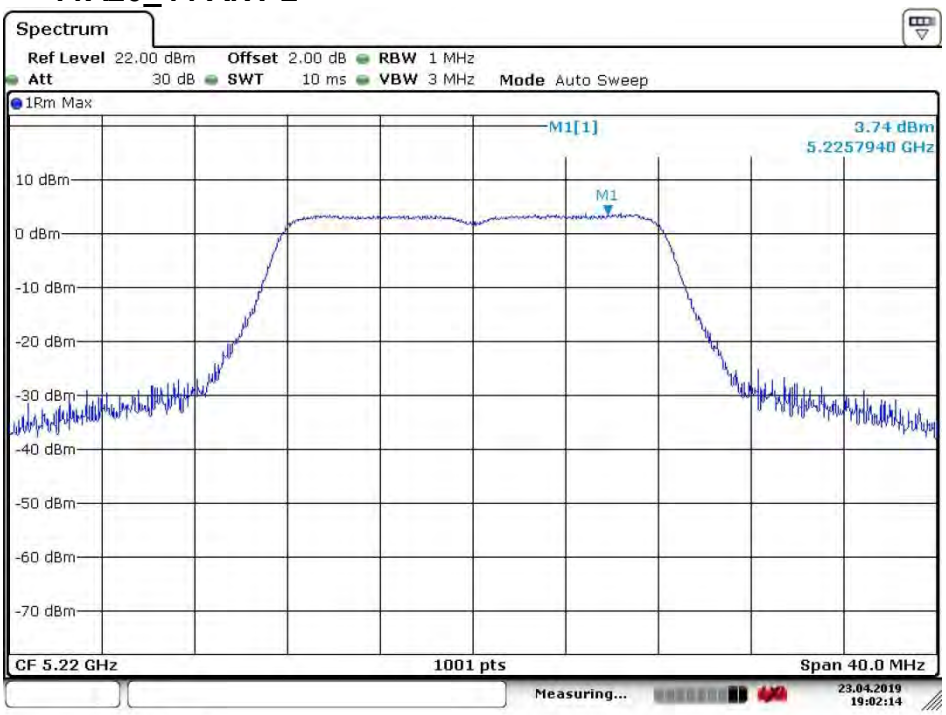
4.7.1.62 11A20_36 ANT 2

Date: 23.APR.2019 19:01:39

4.7.1.63 11A20_44 ANT 2



Date: 23.APR.2019 19:02:14

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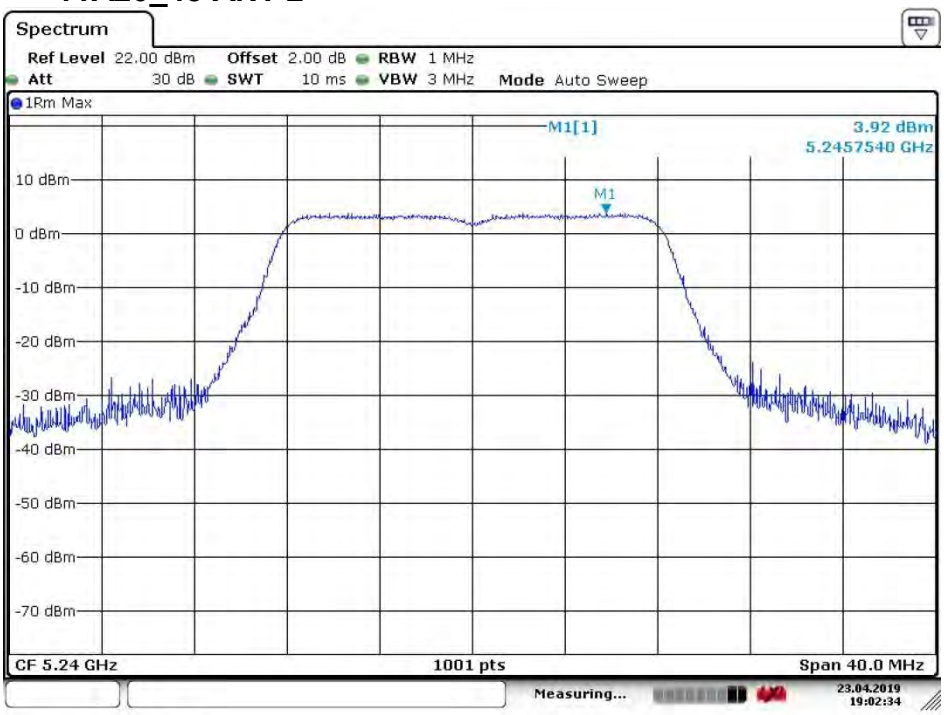
4.7.1.64 11A20_48 ANT 2



Date: 23.APR.2019 19:02:34

4.7.1.65 11A20_52 ANT 2

Date: 23.APR.2019 19:07:21

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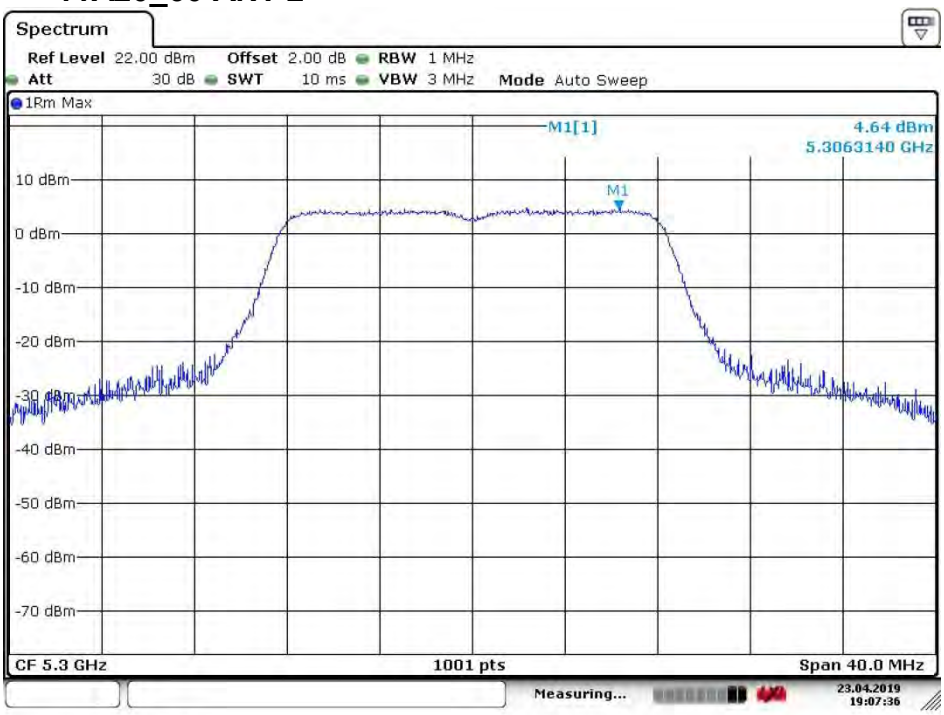
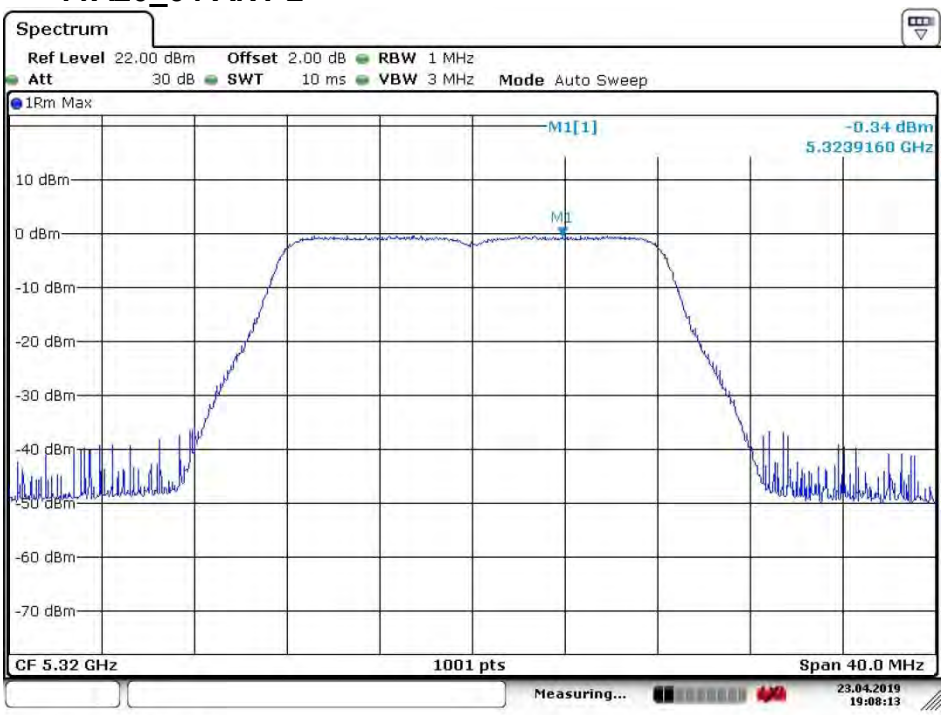
4.7.1.66 11A20_60 ANT 2



Date: 23.APR.2019 19:07:36

4.7.1.67 11A20_64 ANT 2



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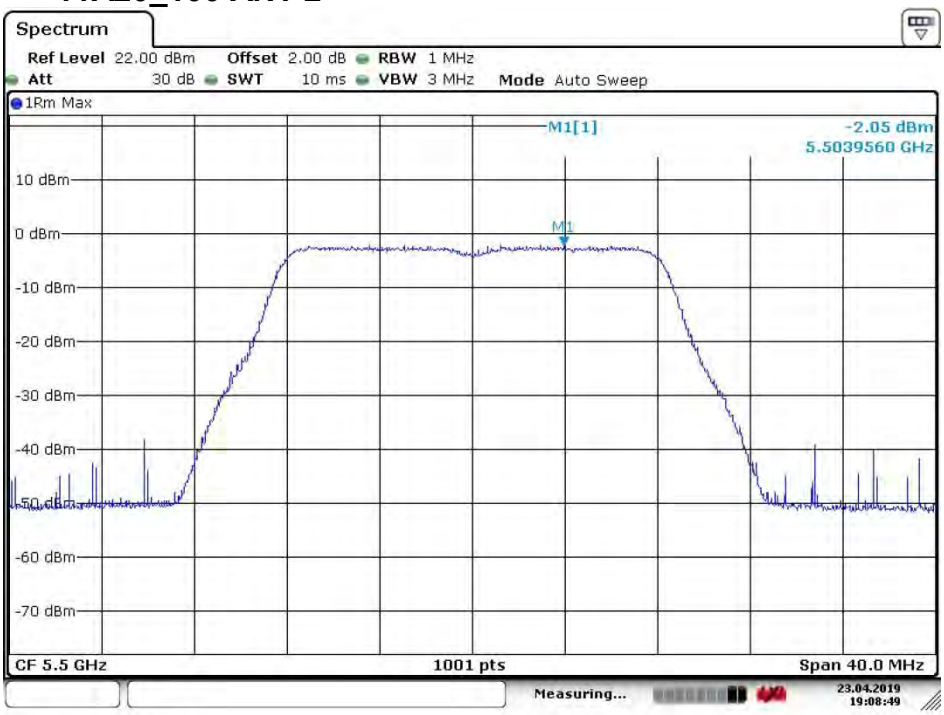
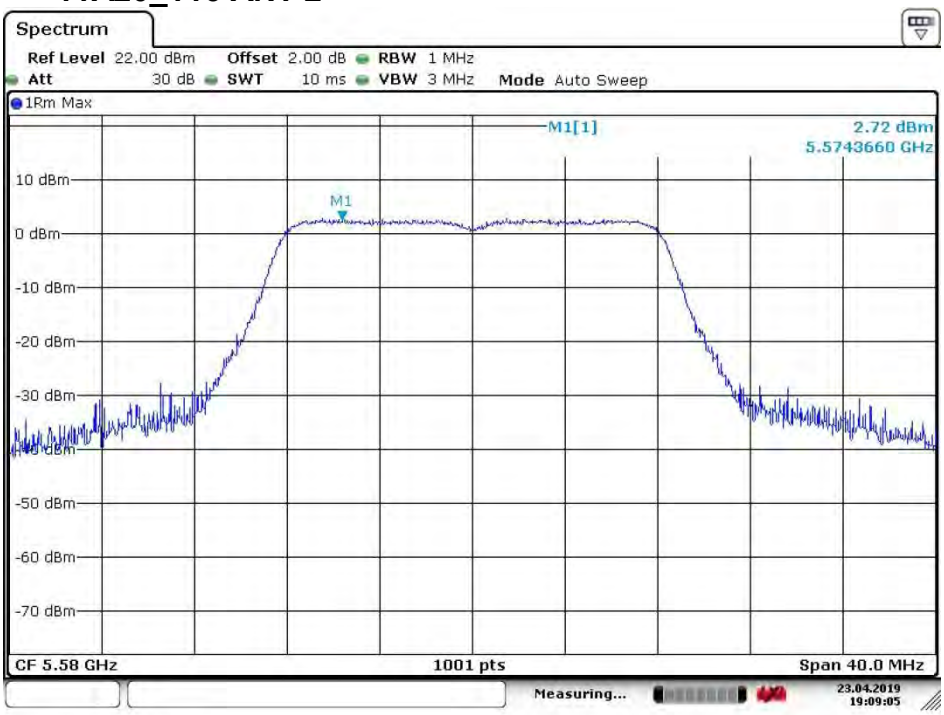
4.7.1.68 11A20_100 ANT 2



Date: 23.APR.2019 19:08:49

4.7.1.69 11A20_116 ANT 2



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4.7.1.70 11A20_140 ANT 2

Date: 23.APR.2019 19:09:27

4.7.1.71 11A20_149 ANT 2

Date: 23.APR.2019 21:11:23

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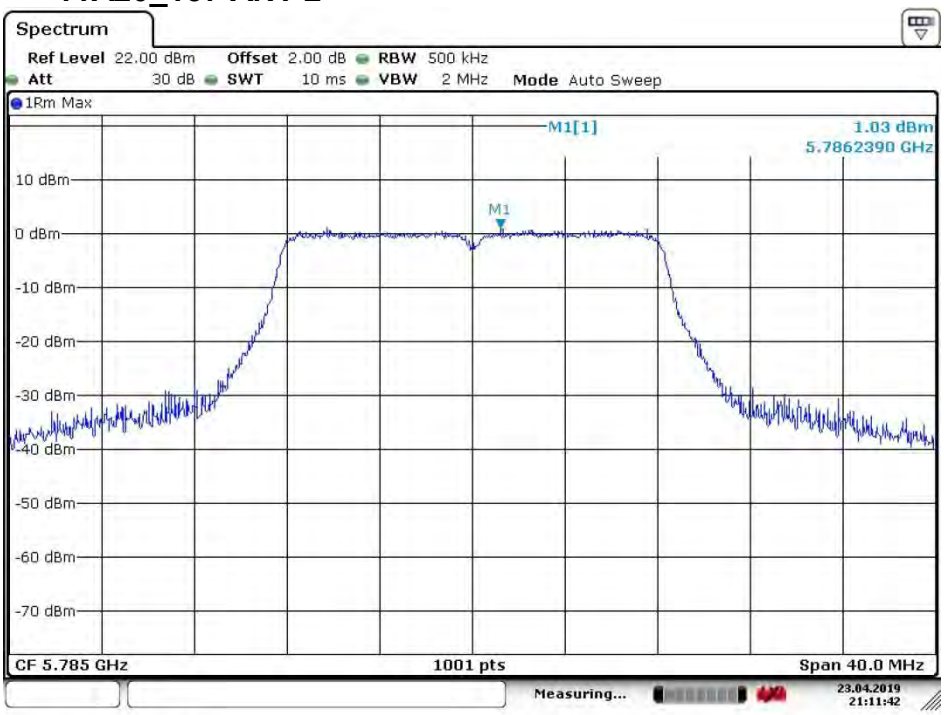
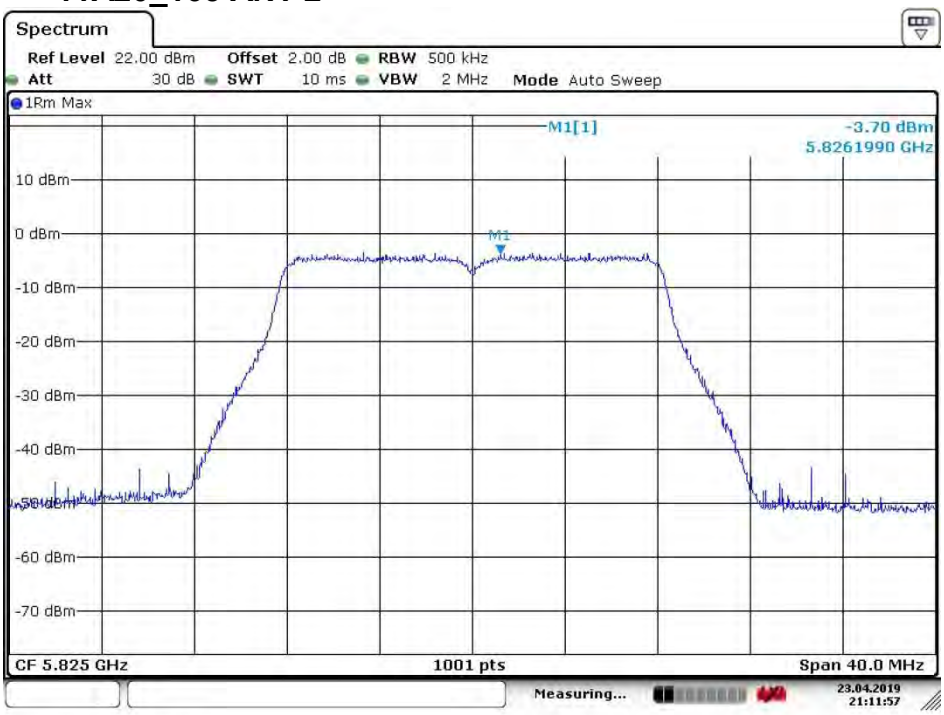
4.7.1.72 11A20_157 ANT 2



Date: 23.APR.2019 21:11:42

4.7.1.73 11A20_165 ANT 2



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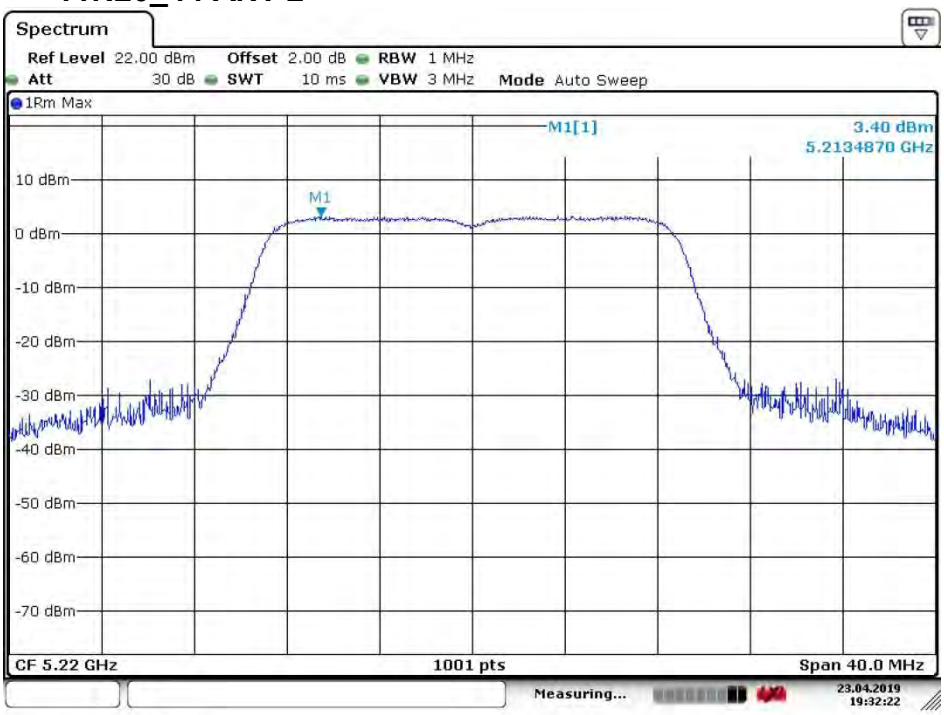
4.7.1.74 11N20_36 ANT 2

Date: 23.APR.2019 19:31:58

4.7.1.75 11N20_44 ANT 2



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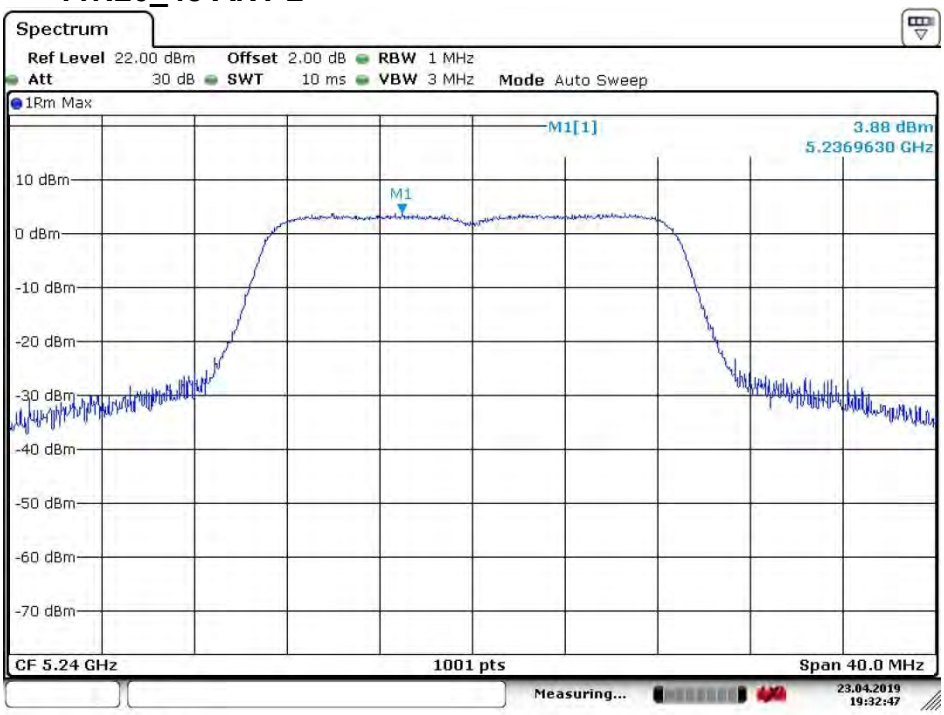
4.7.1.76 11N20_48 ANT 2



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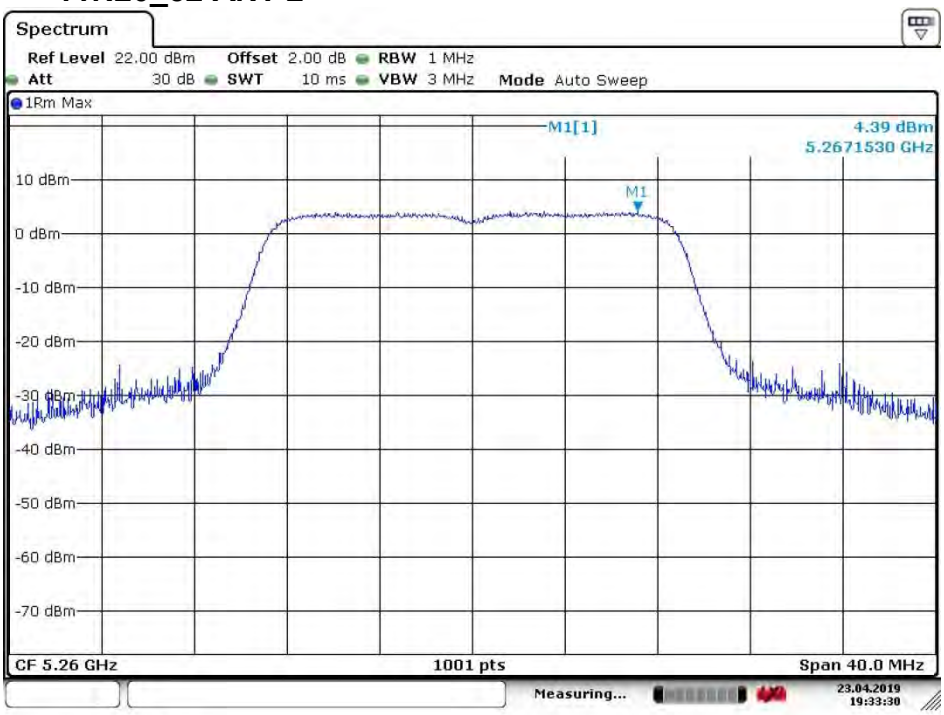

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4.7.1.78 11N20_60 ANT 2

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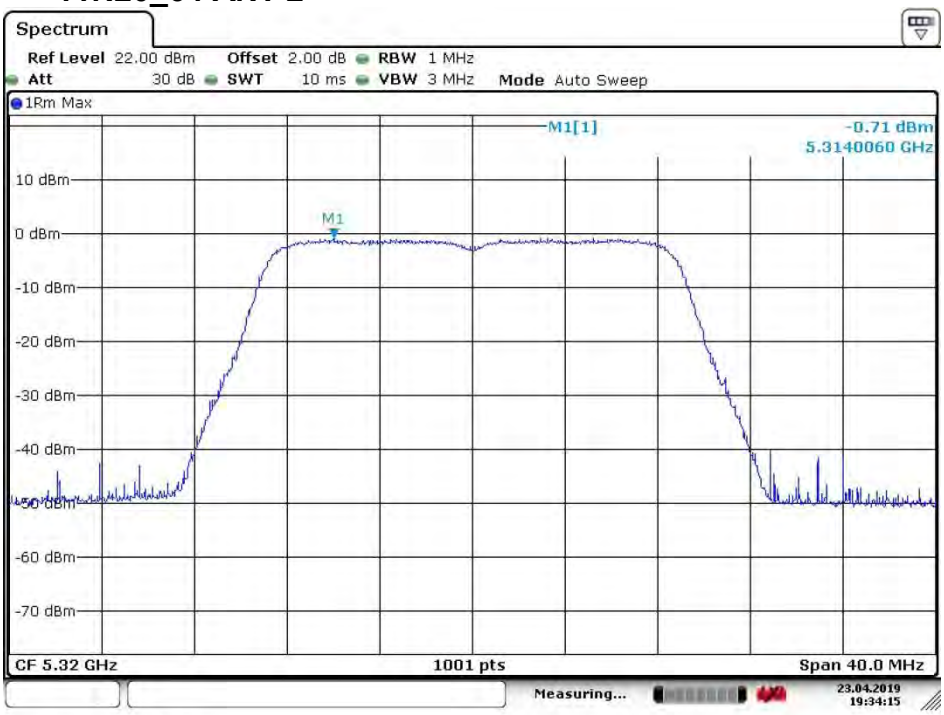

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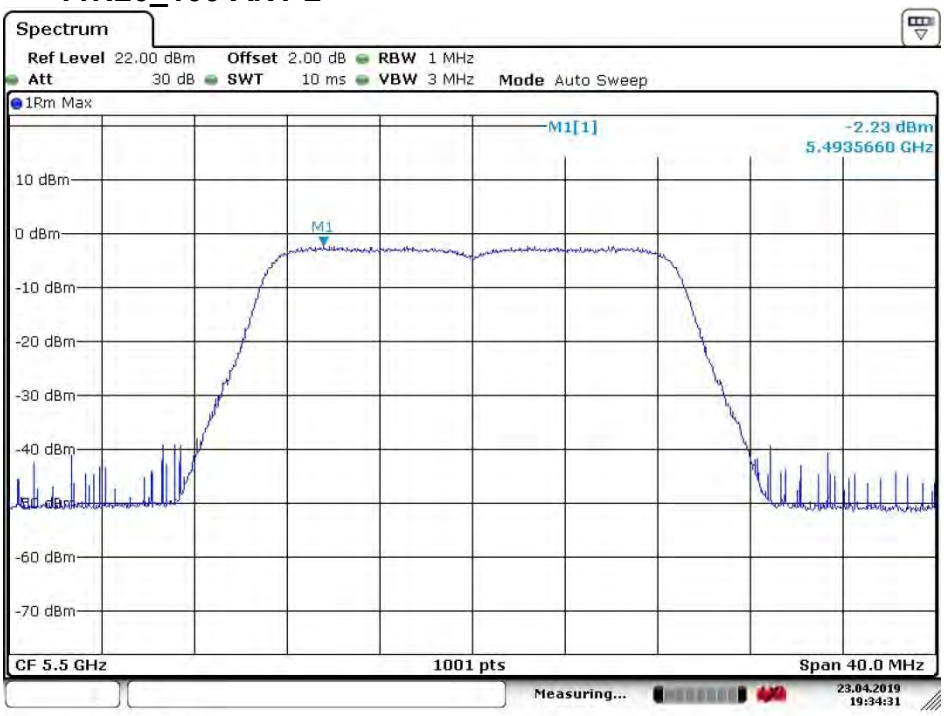
4.7.1.80 11N20_100 ANT 2



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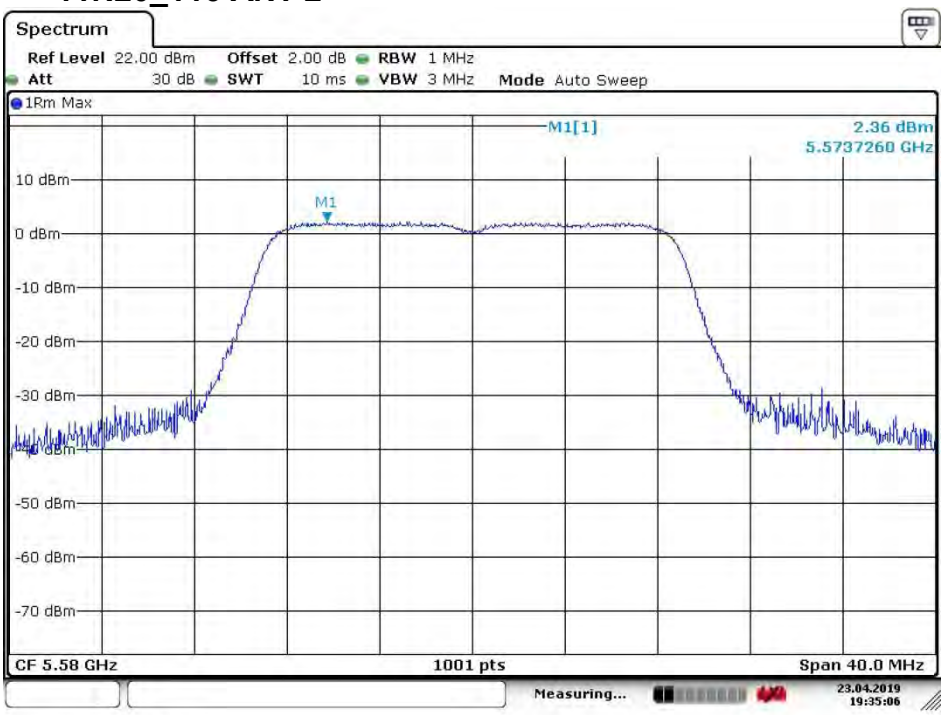

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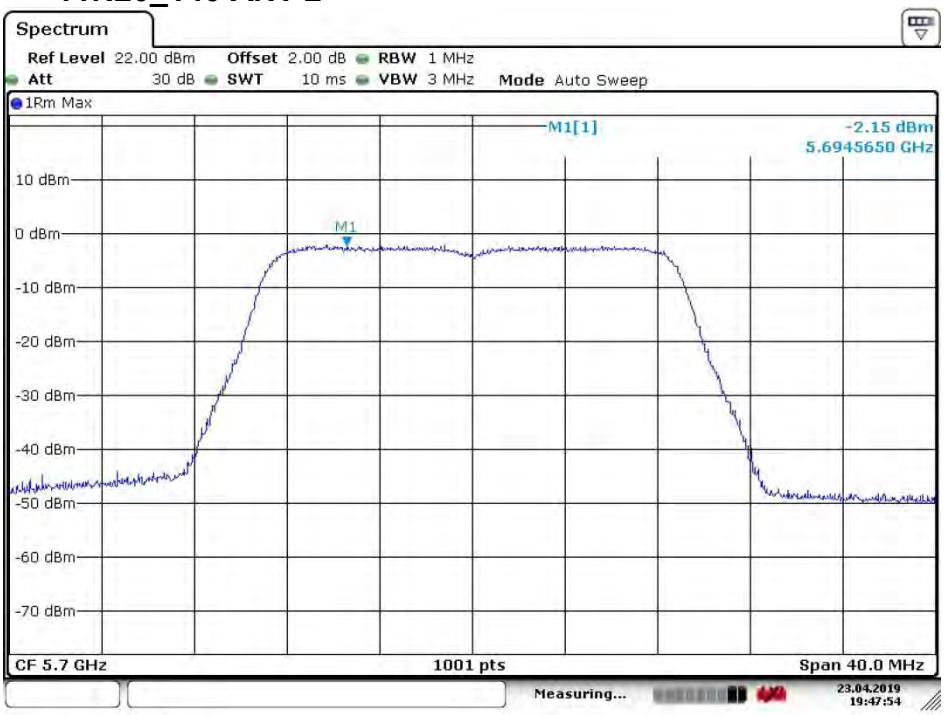
4.7.1.82 11N20_140 ANT 2



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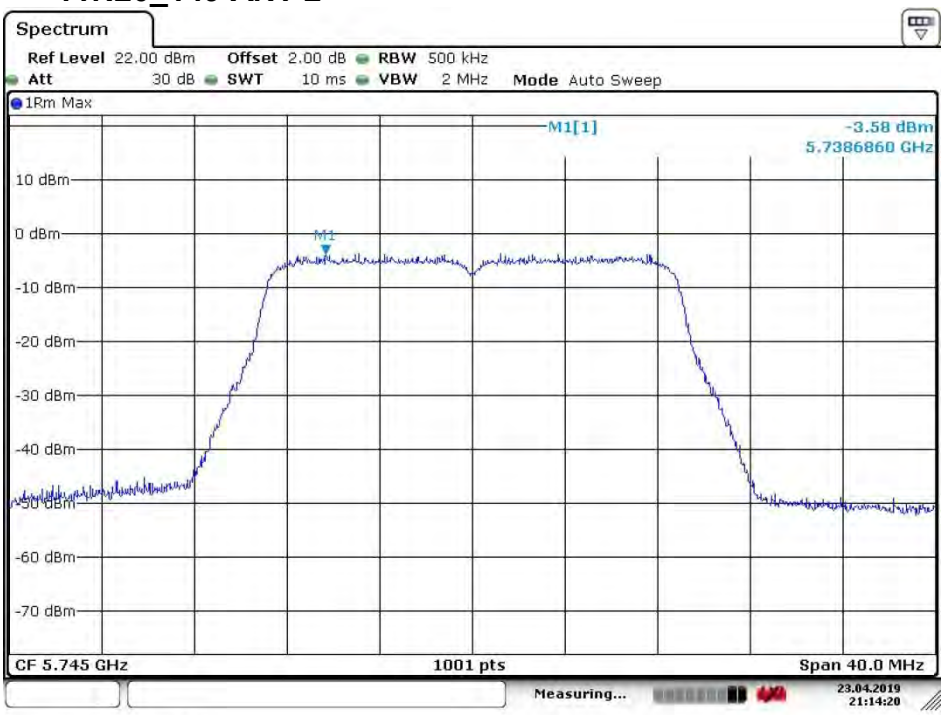

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4.7.1.84 11N20_157 ANT 2

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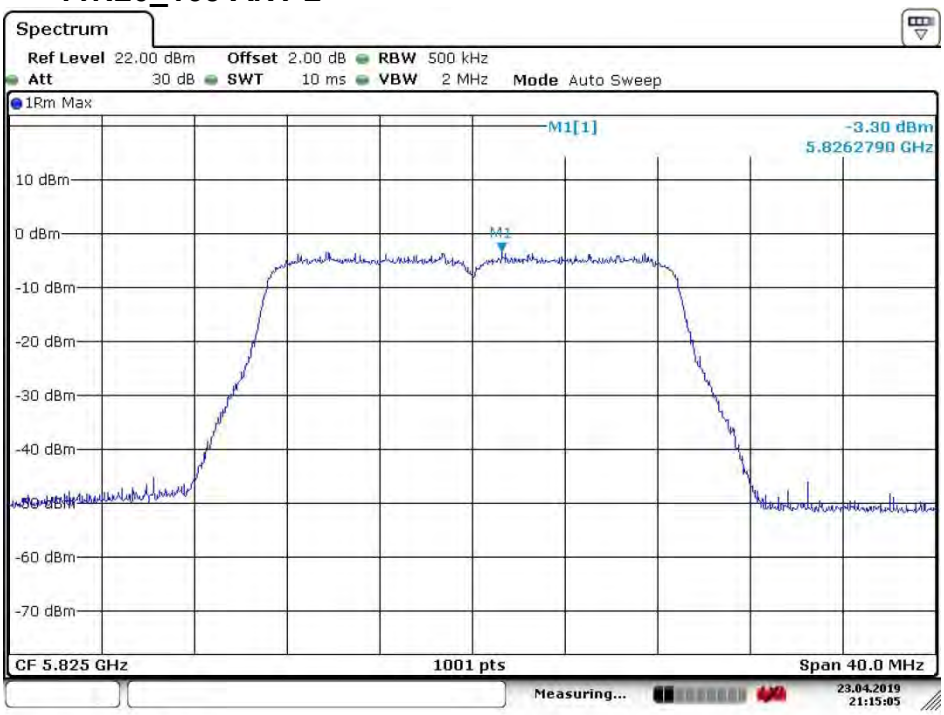
4.7.1.85 11N20_165 ANT 2



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4.7.1.86 11N40_38 ANT 2

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4.7.1.87 11N40_46 ANT 2

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4.7.1.88 11N40_54 ANT 2

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4.7.1.89 11N40_62 ANT 2

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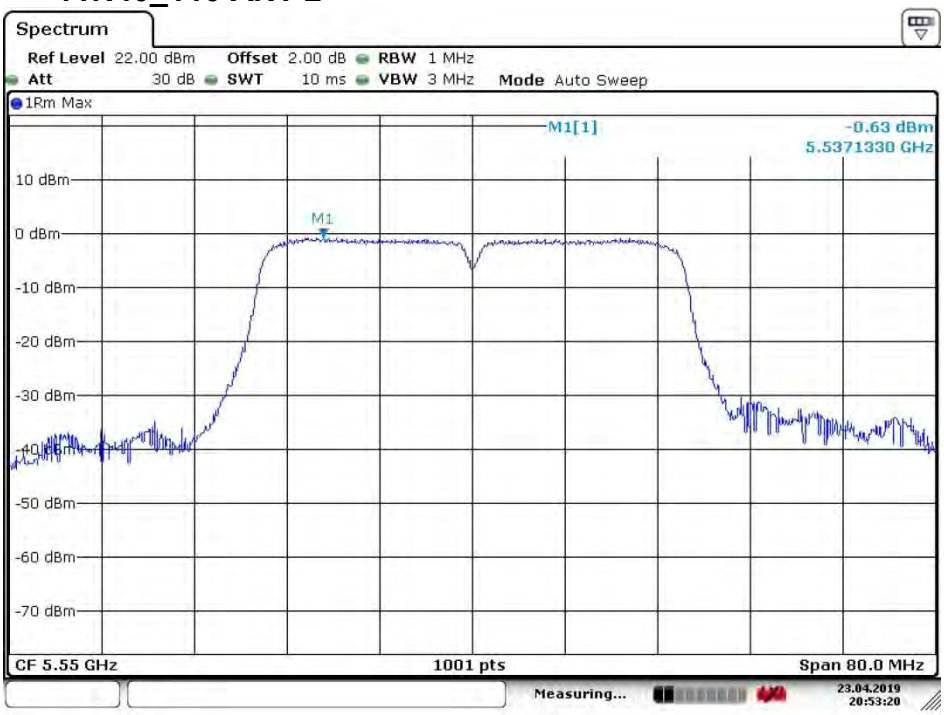

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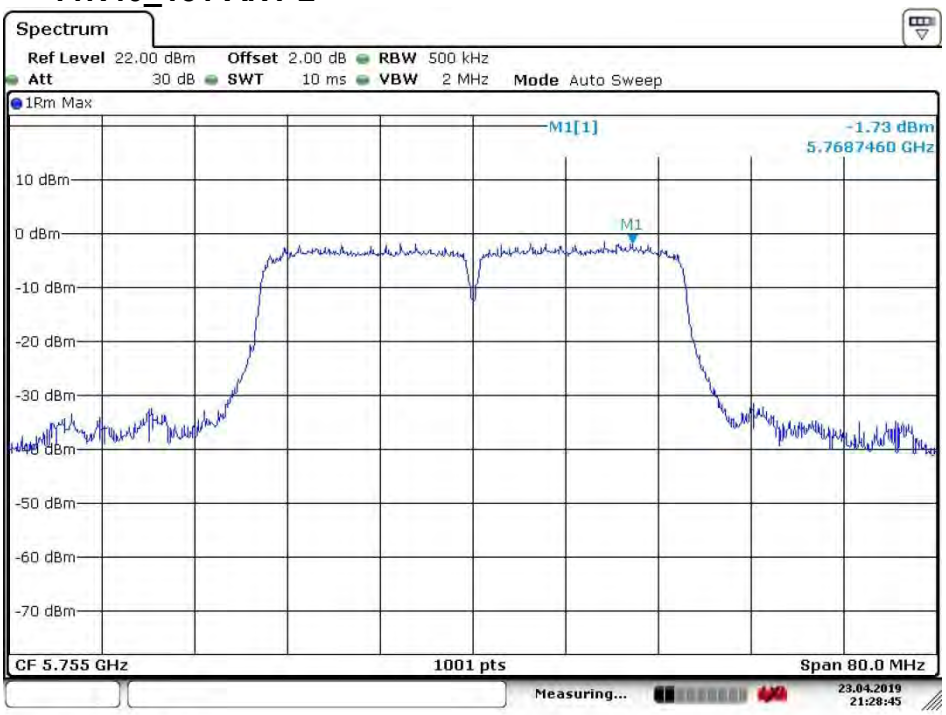

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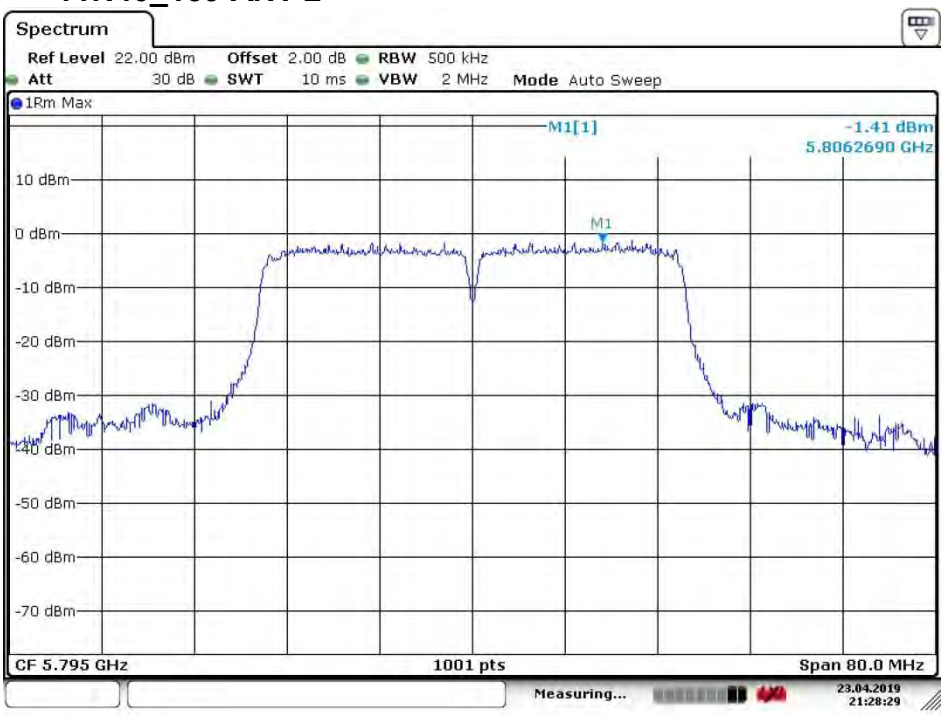

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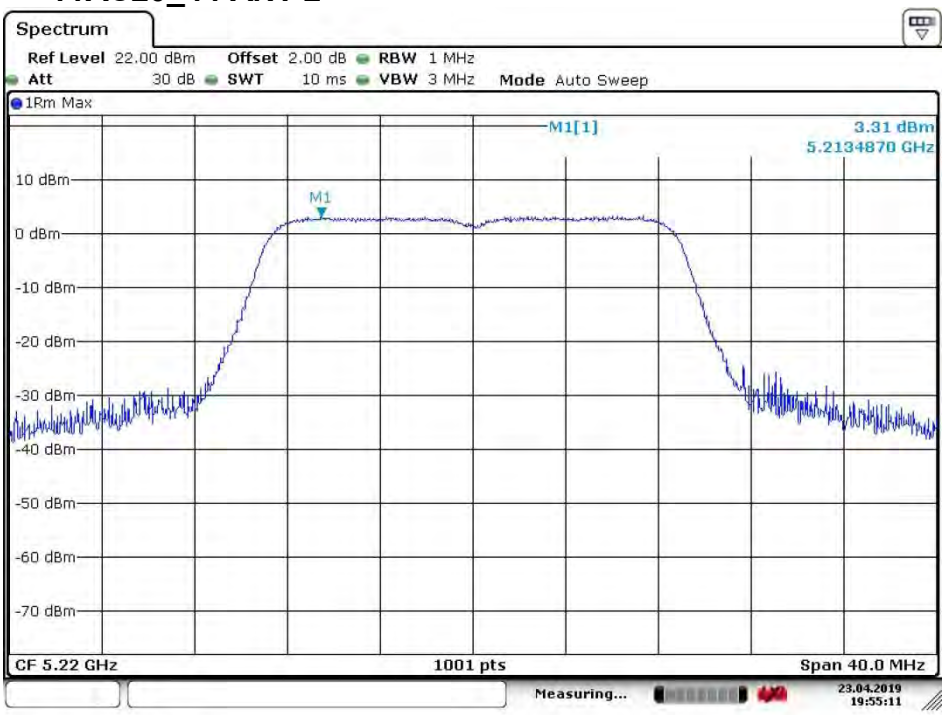

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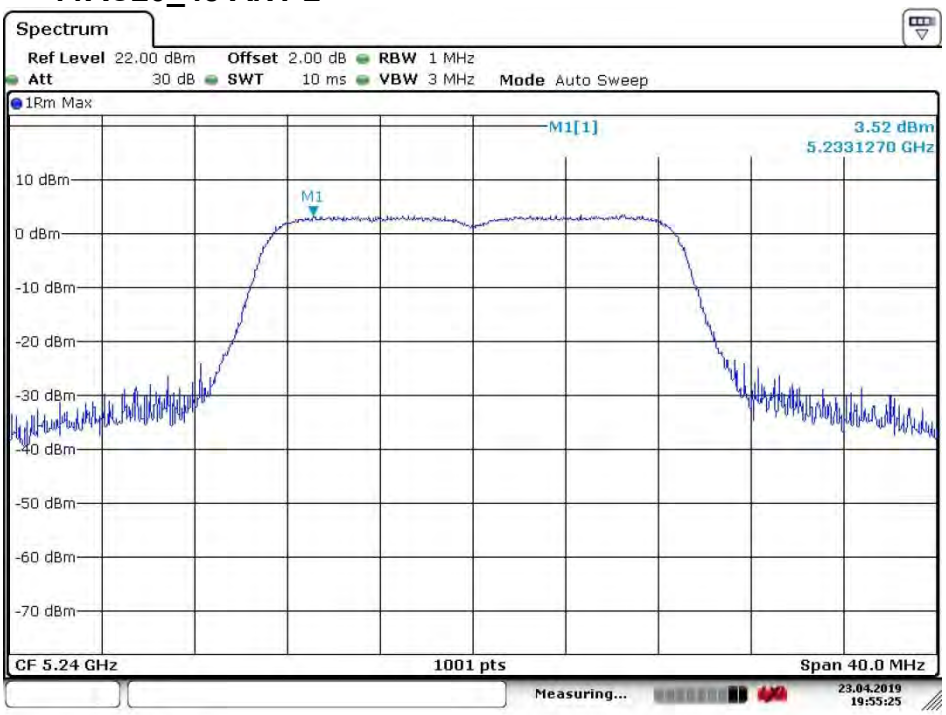

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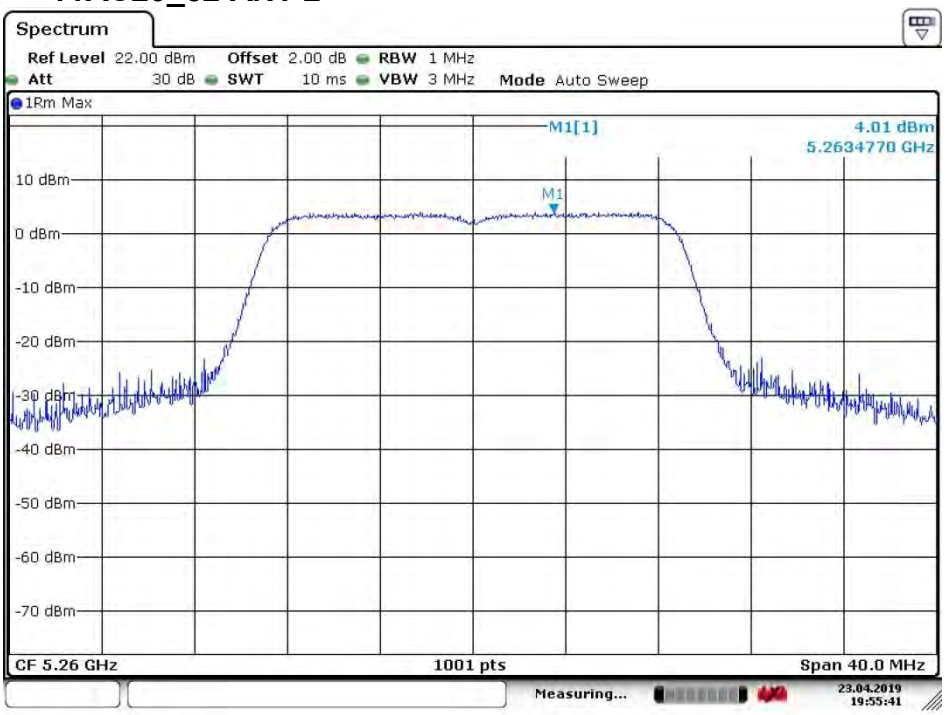
4.7.1.98 11AC20_52 ANT 2



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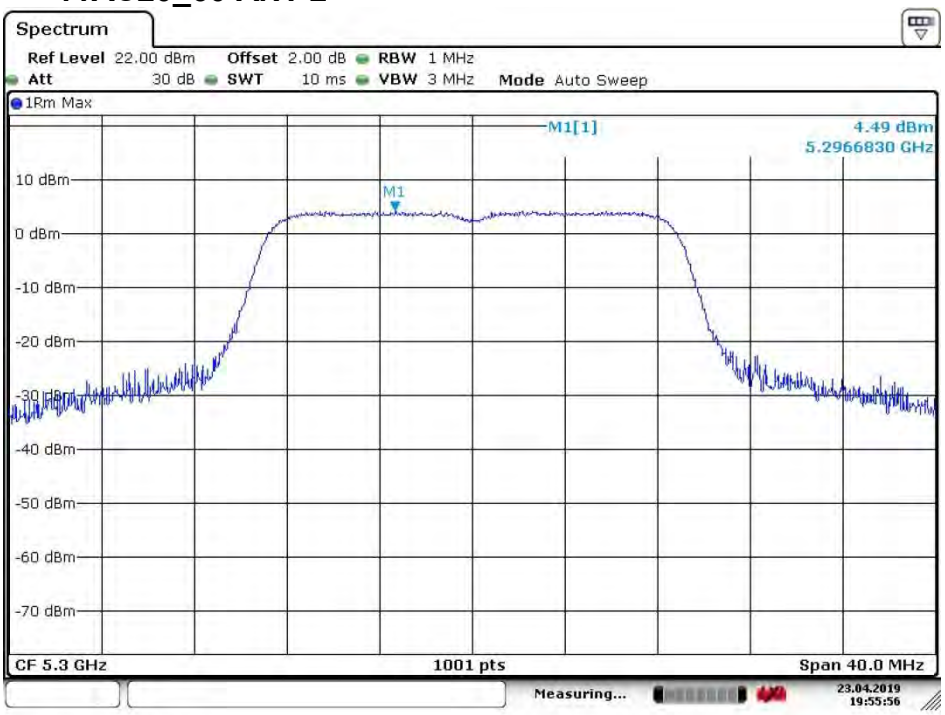
4.7.1.99 11AC20_60 ANT 2



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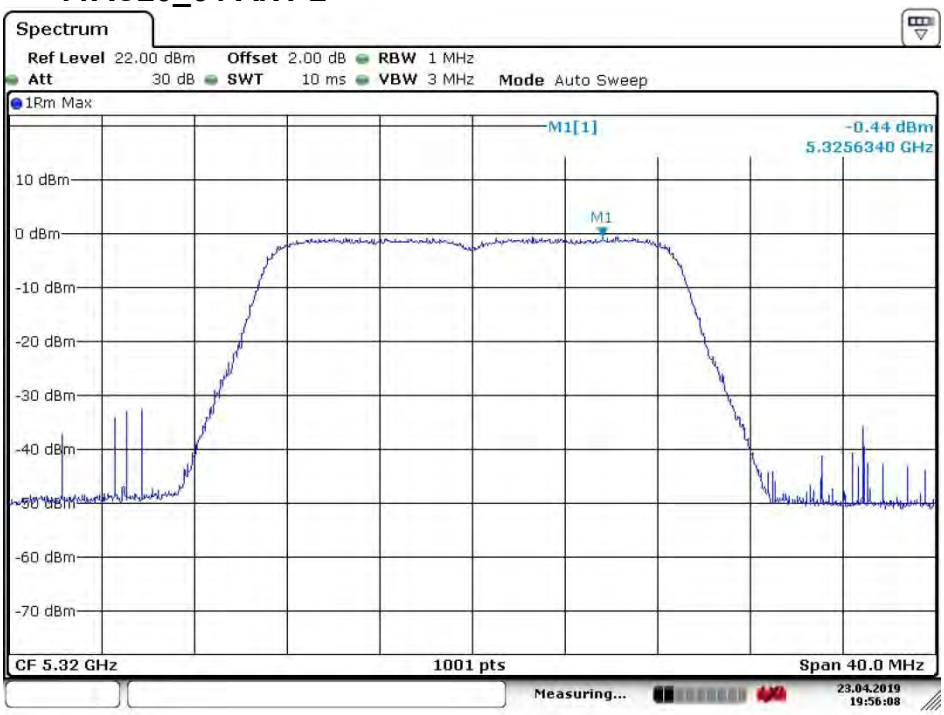
4.7.1.100 11AC20_64 ANT 2



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4.7.1.101 11AC20_100 ANT 2

Date: 23.APR.2019 19:56:19

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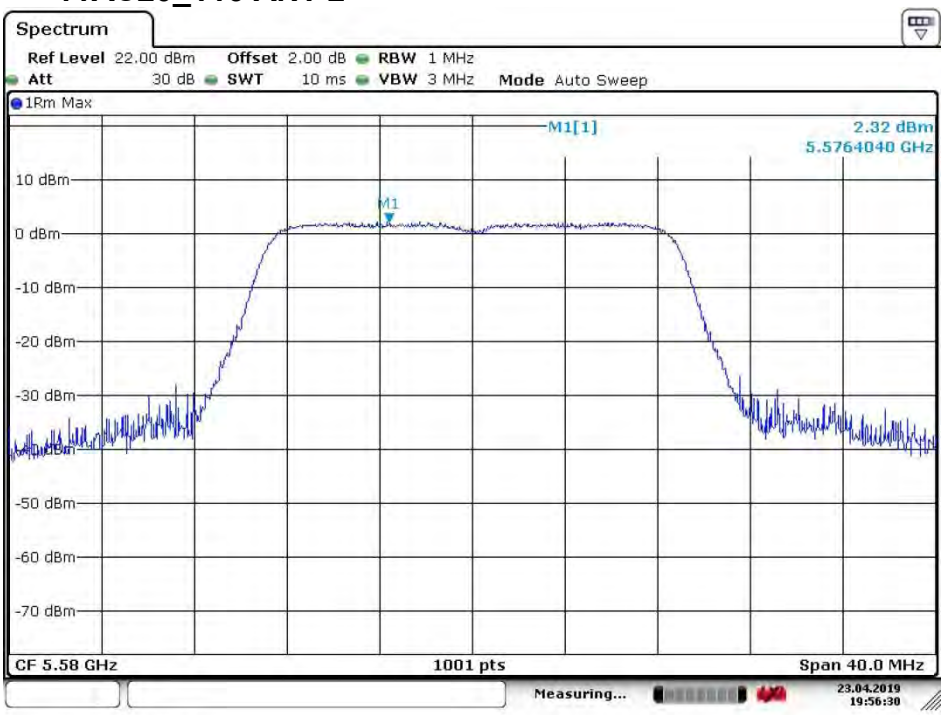
4.7.1.102 11AC20_116 ANT 2



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4.7.1.103 11AC20_140 ANT 2

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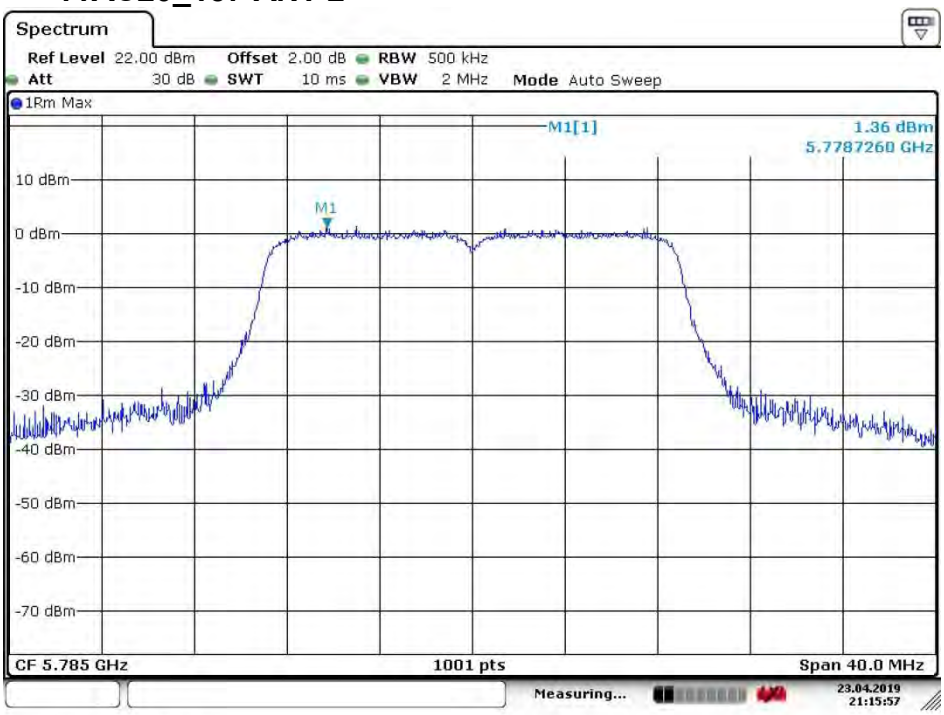
4.7.1.104 11AC20_149 ANT 2

Date: 23.APR.2019 21:15:30

4.7.1.105 11AC20_157 ANT 2



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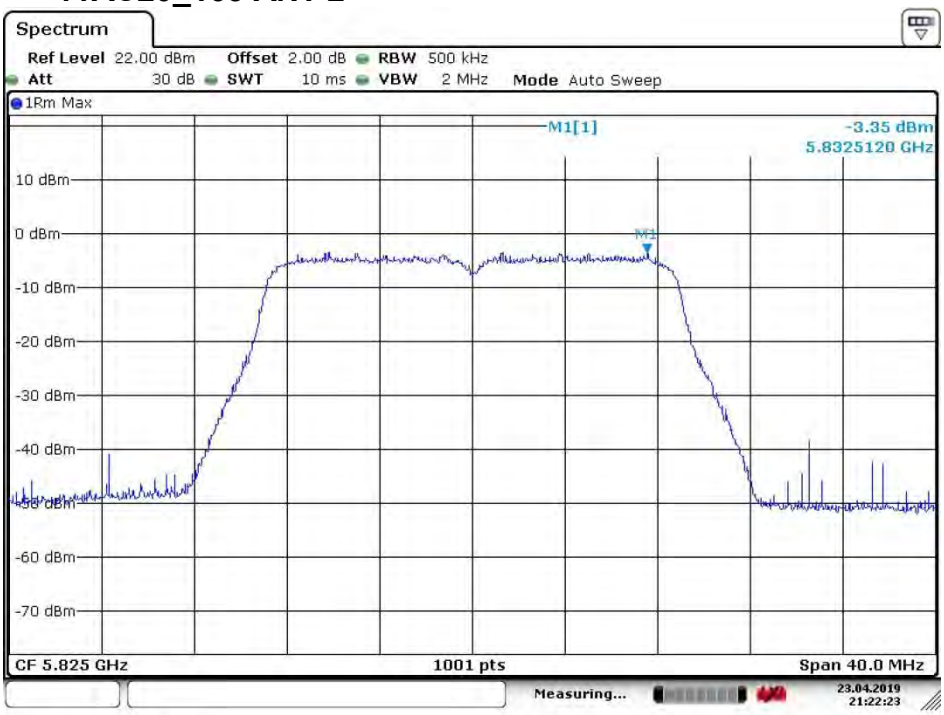
4.7.1.106 11AC20_165 ANT 2



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4.7.1.107 11AC40_38 ANT 2

Date: 23.APR.2019 21:01:19

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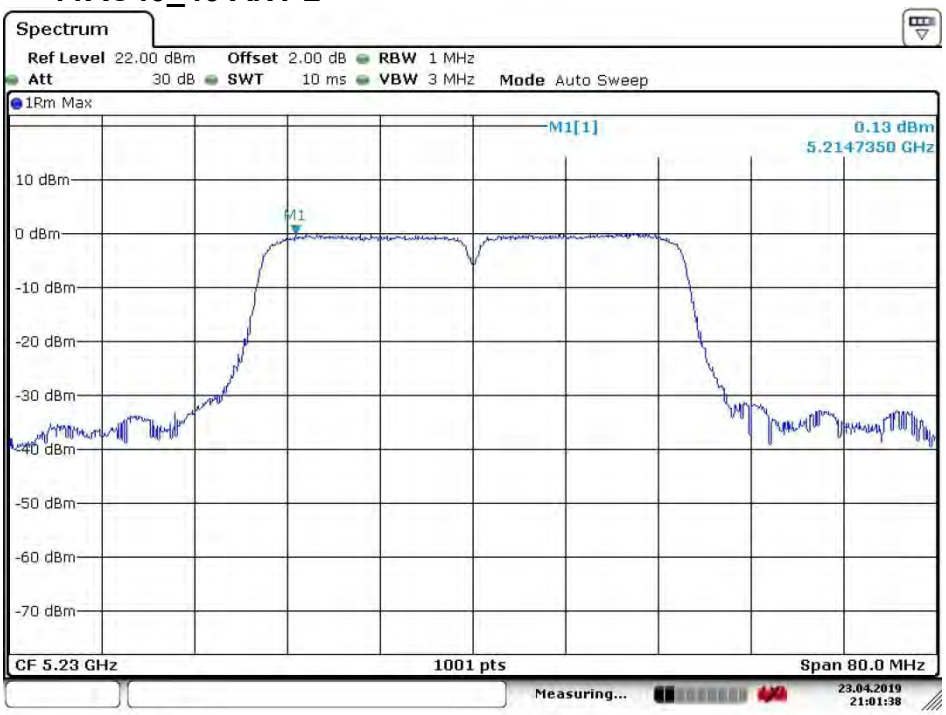
4.7.1.108 11AC40_46 ANT 2



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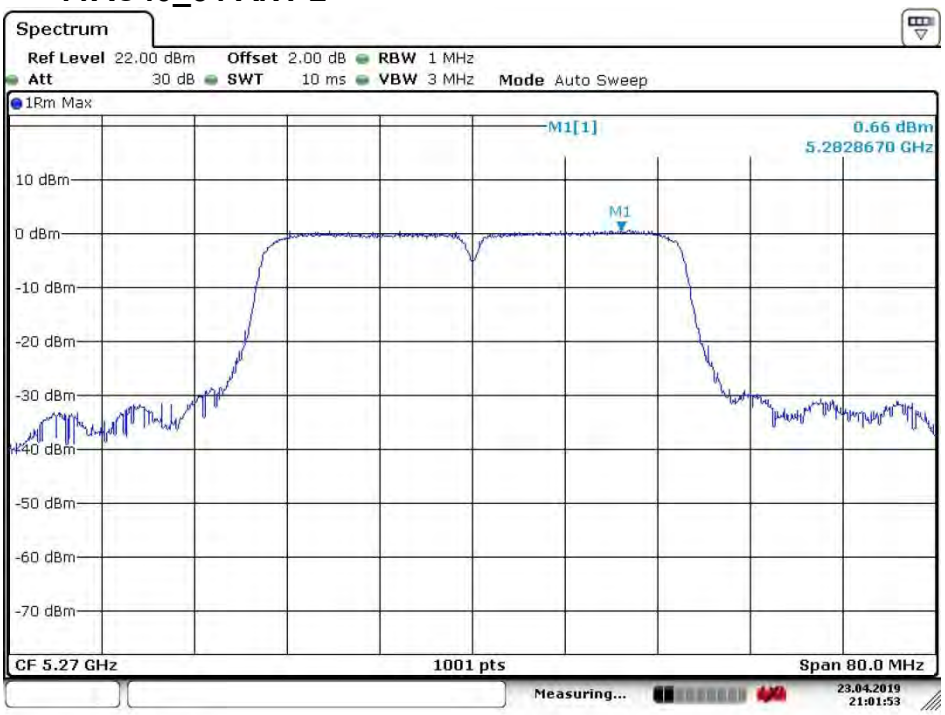
4.7.1.109 11AC40_54 ANT 2



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4.7.1.110 11AC40_62 ANT 2

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4.7.1.111 11AC40_102 ANT 2

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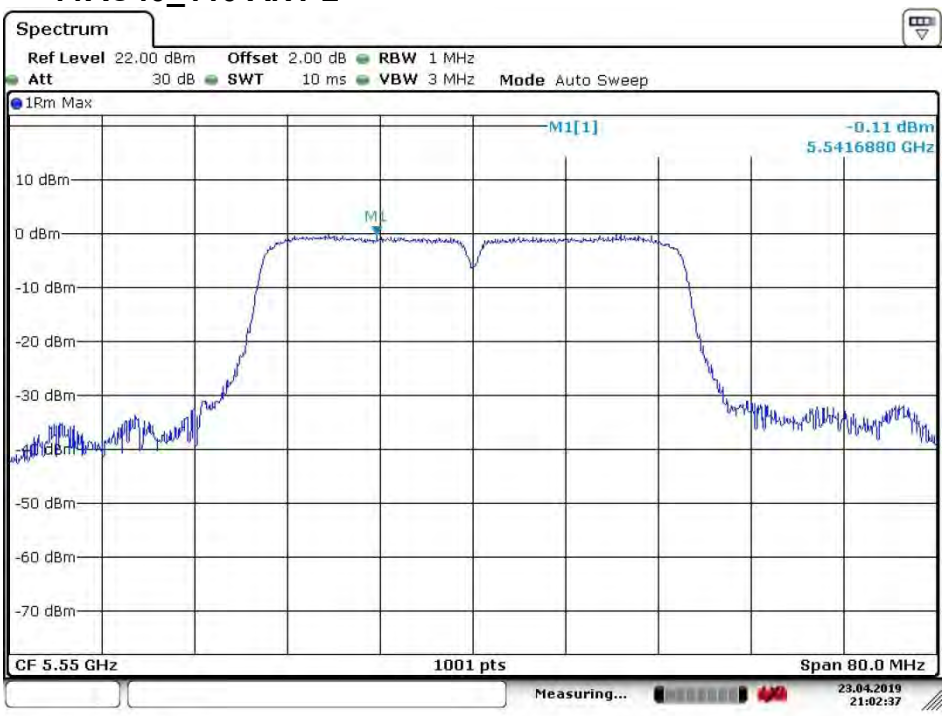
4.7.1.112 11AC40_110 ANT 2



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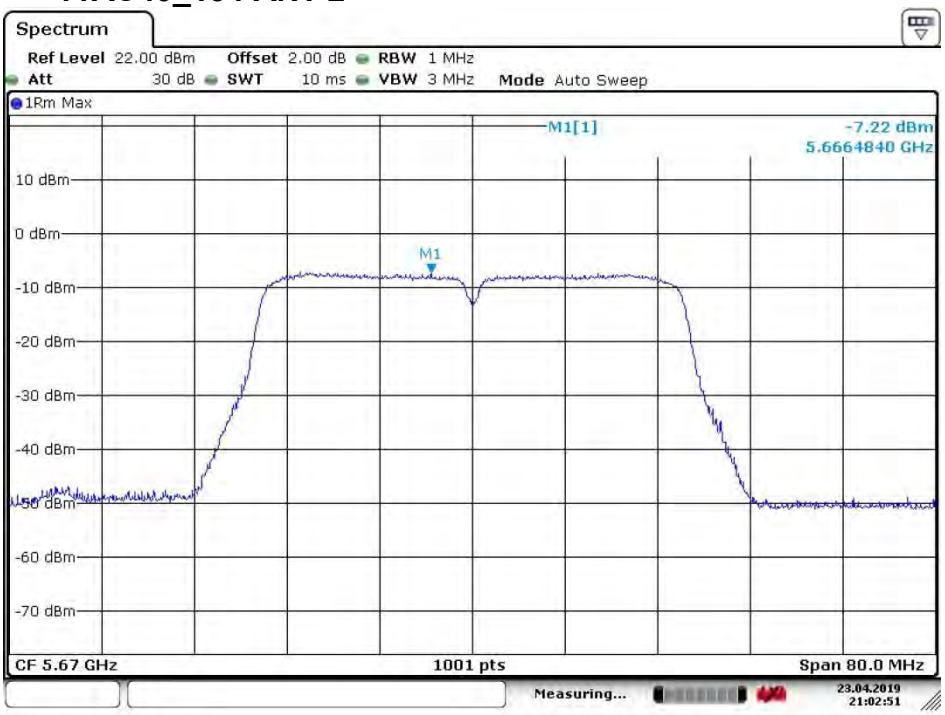
4.7.1.113 11AC40_134 ANT 2



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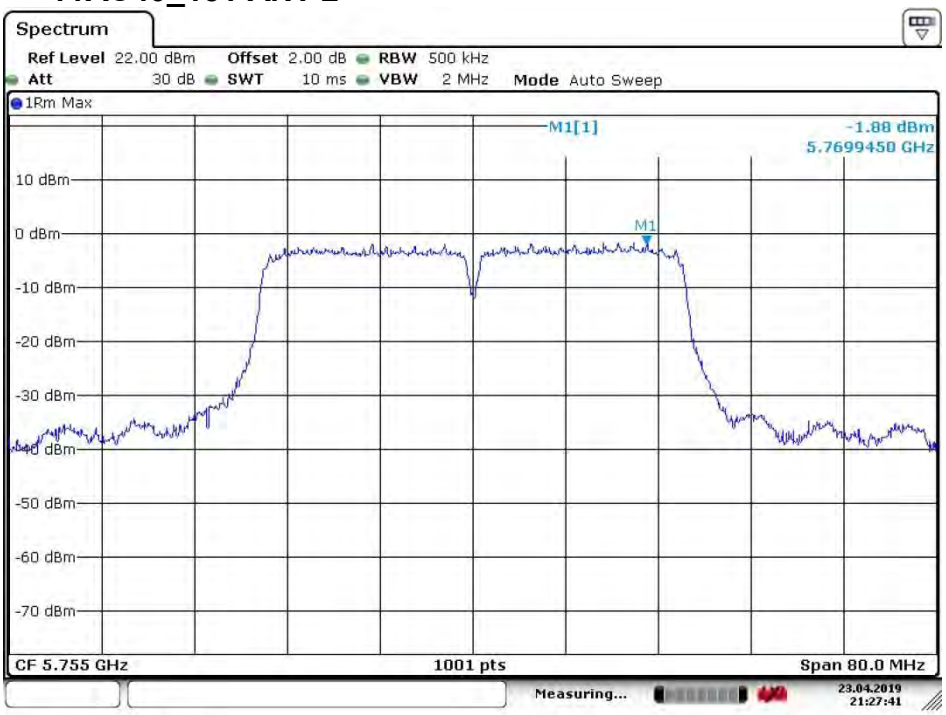
4.7.1.114 11AC40_151 ANT 2



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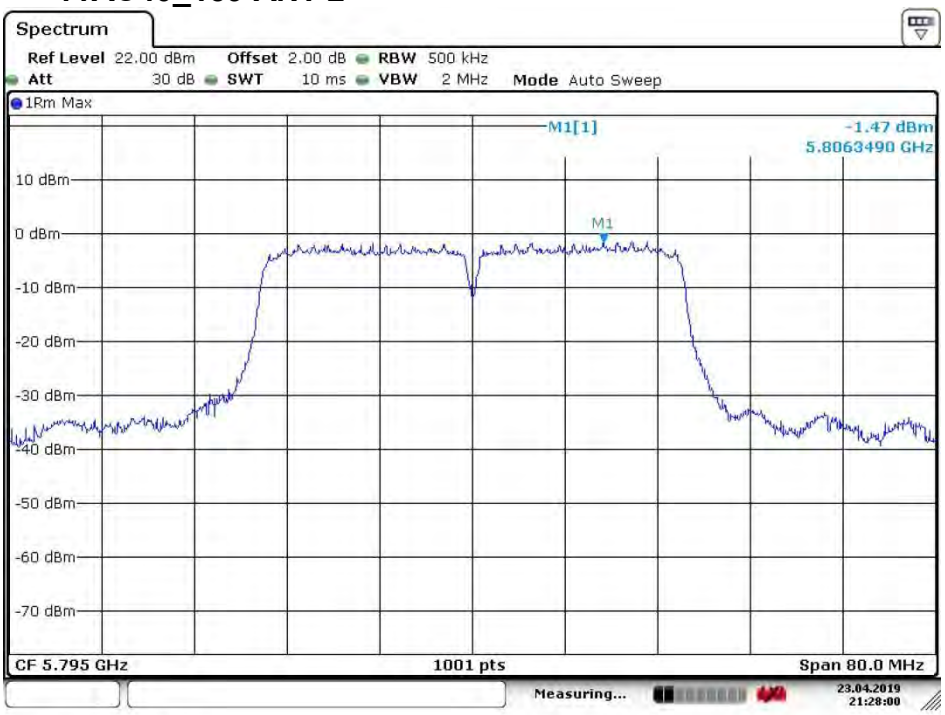

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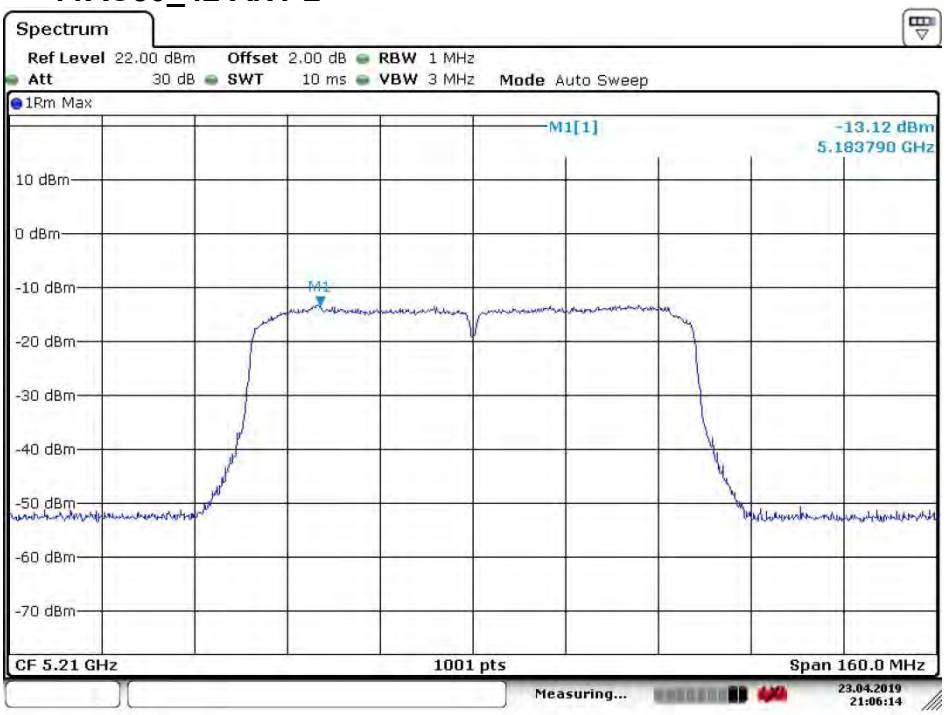
4.7.1.116 11AC80_42 ANT 2



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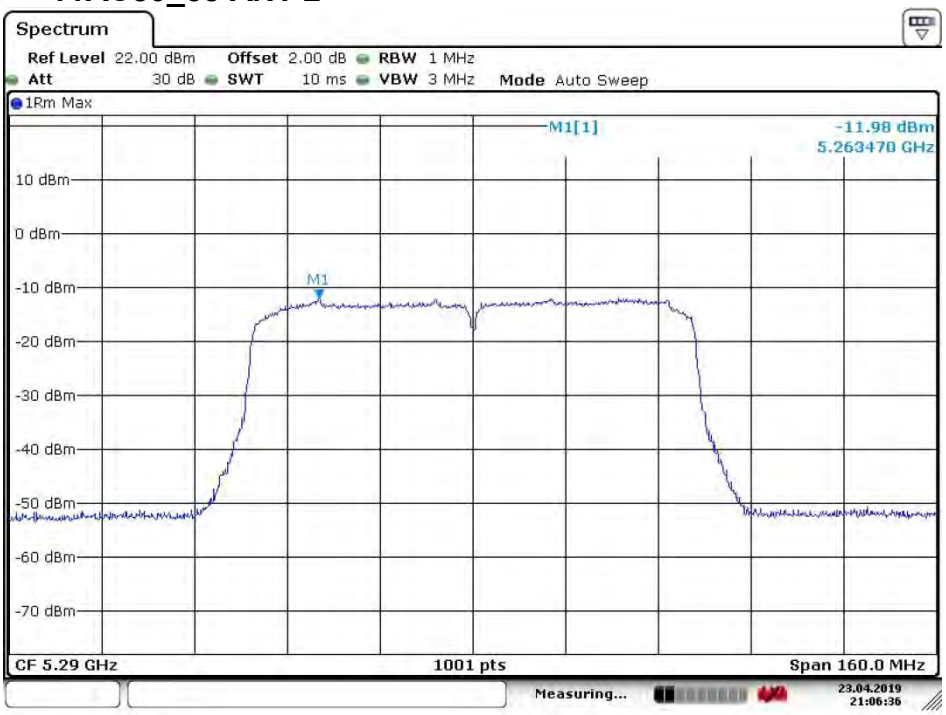
4.7.1.117 11AC80_58 ANT 2



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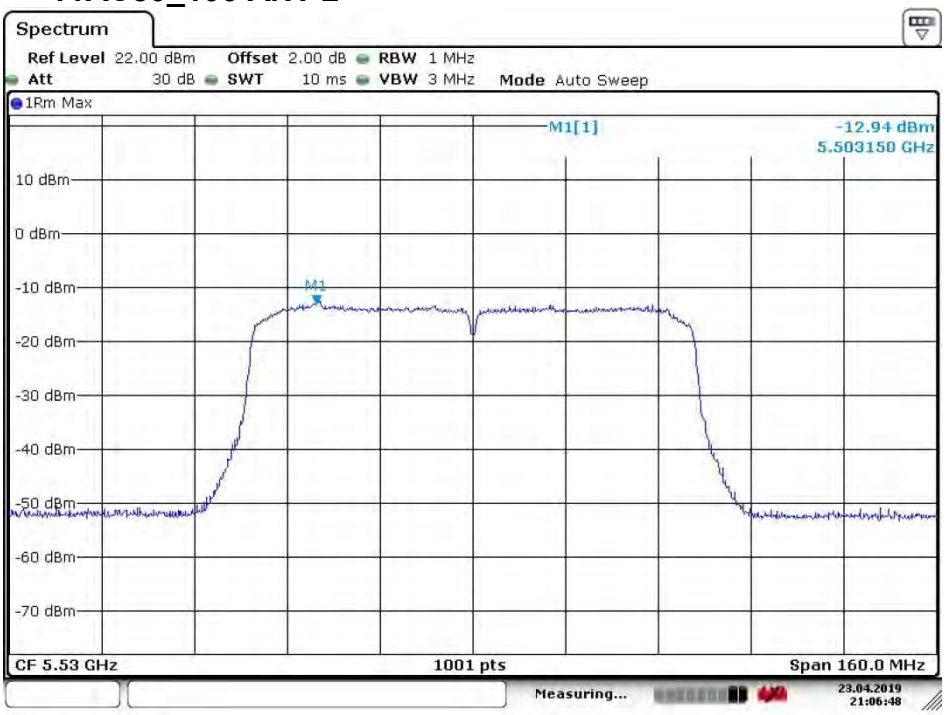
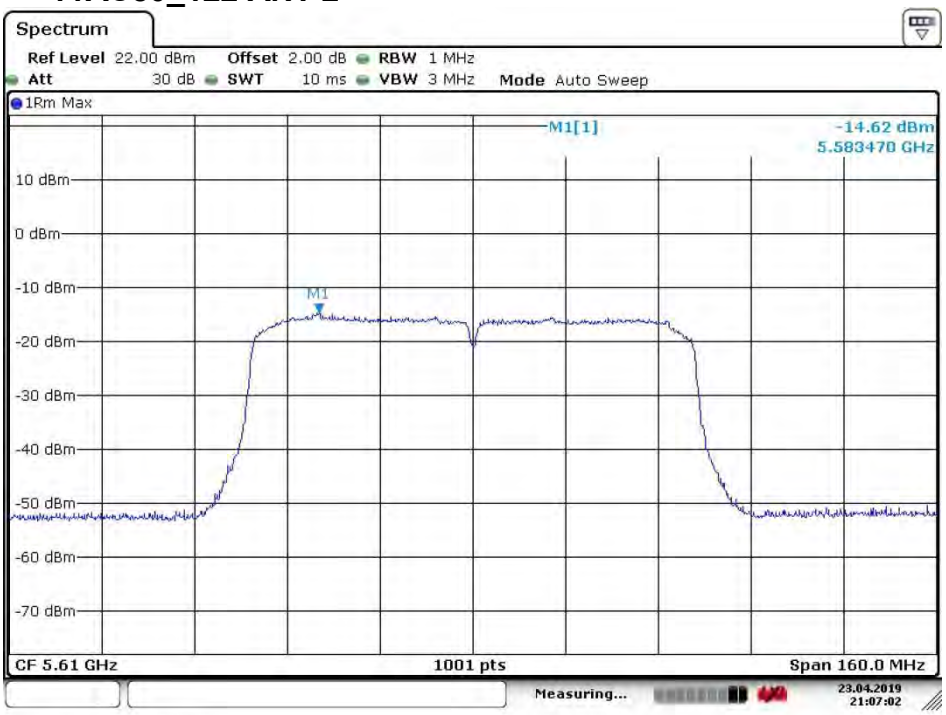
4.7.1.118 11AC80_106 ANT 2



Date: 23.APR.2019 21:06:48

4.7.1.119 11AC80_122 ANT 2



Date: 23.APR.2019 21:07:02

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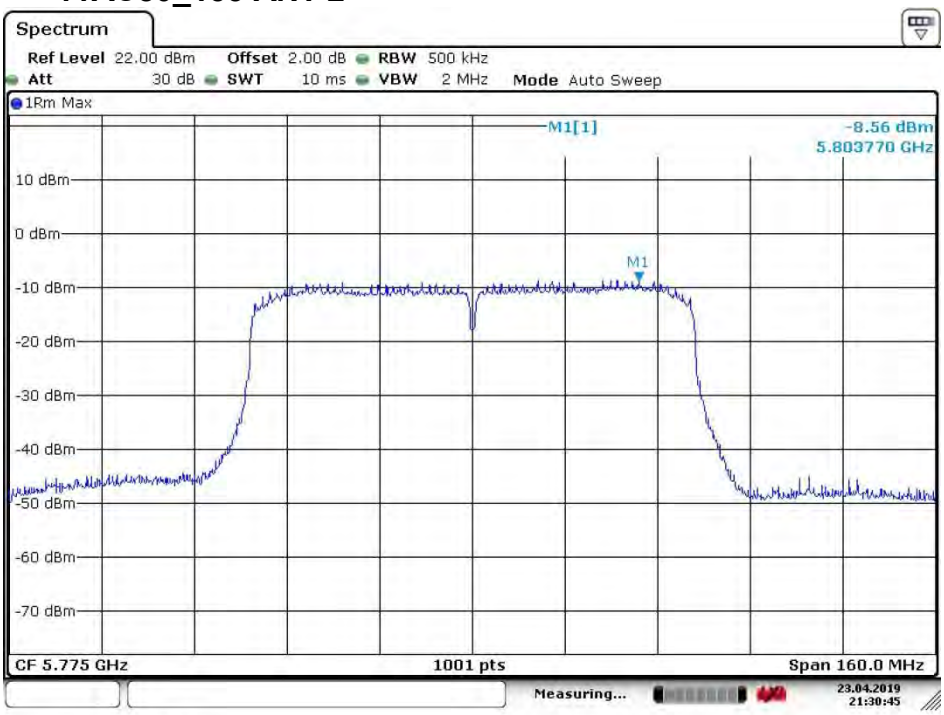
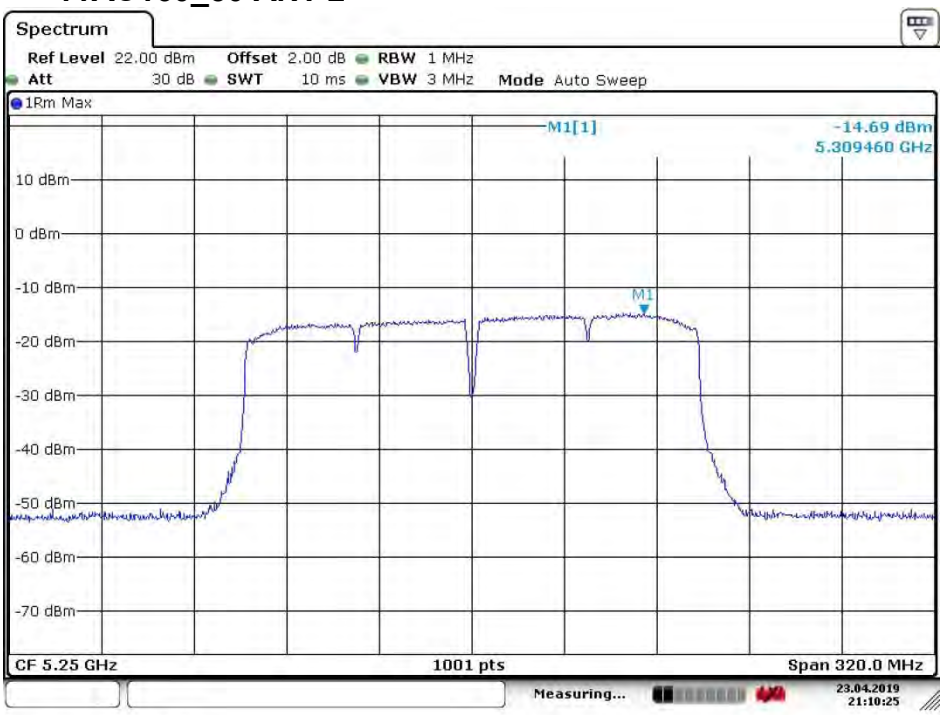
4.7.1.120 11AC80_155 ANT 2



Date: 23.APR.2019 21:30:45

4.7.1.121 11AC160_50 ANT 2



Date: 23.APR.2019 21:10:25

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