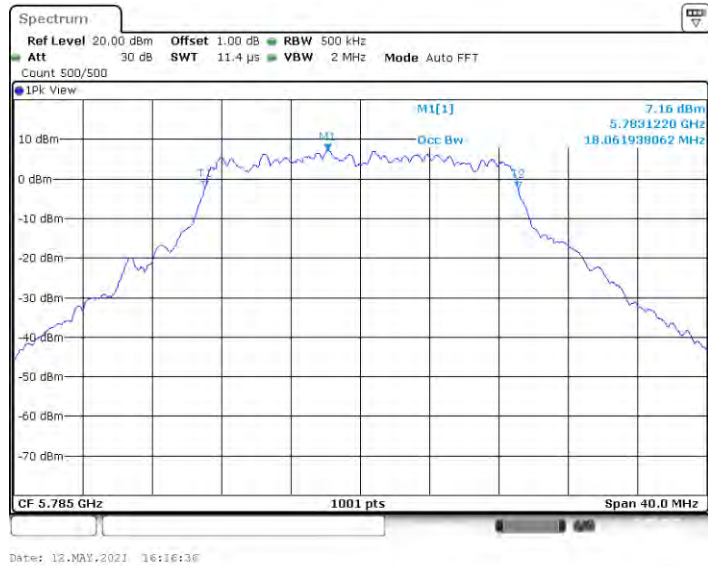
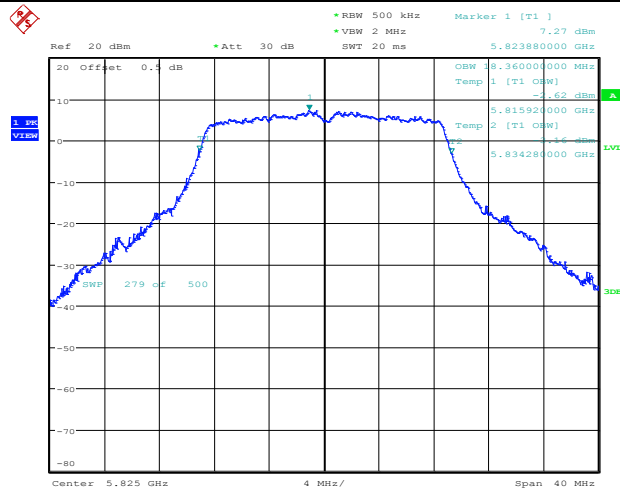




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11AC20MIMO_Ant1_5825



Date: 24.NOV.2020 14:44:05

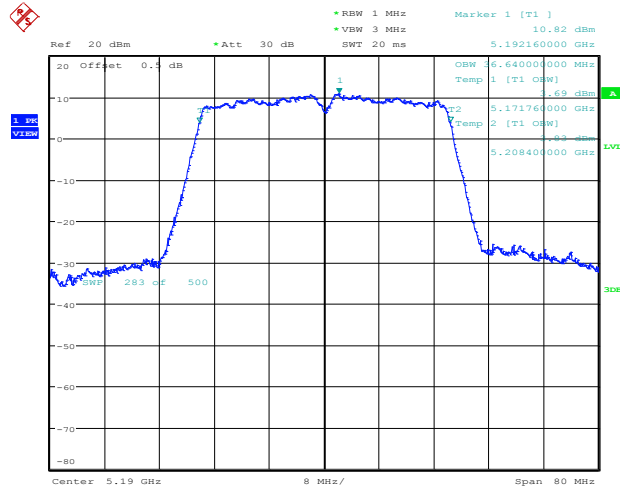
11AC20MIMO_Ant2_5825





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11AC40MIMO_Ant1_5190



Date: 24.NOV.2020 14:47:09

11AC40MIMO_Ant2_5190

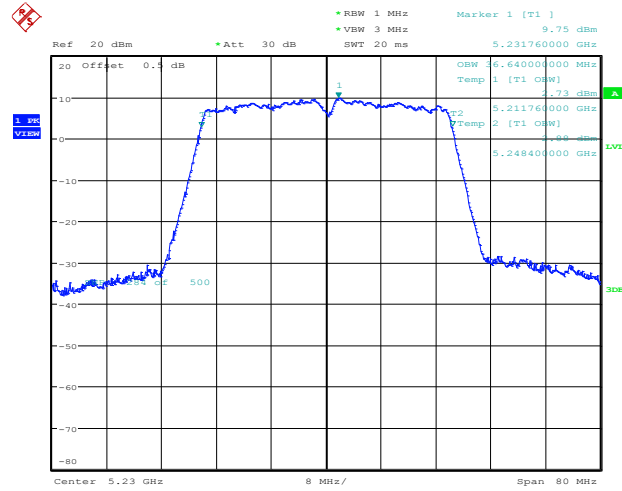


Date: 12.MAY.2021 16:20:22

11AC40MIMO_Ant1_5230

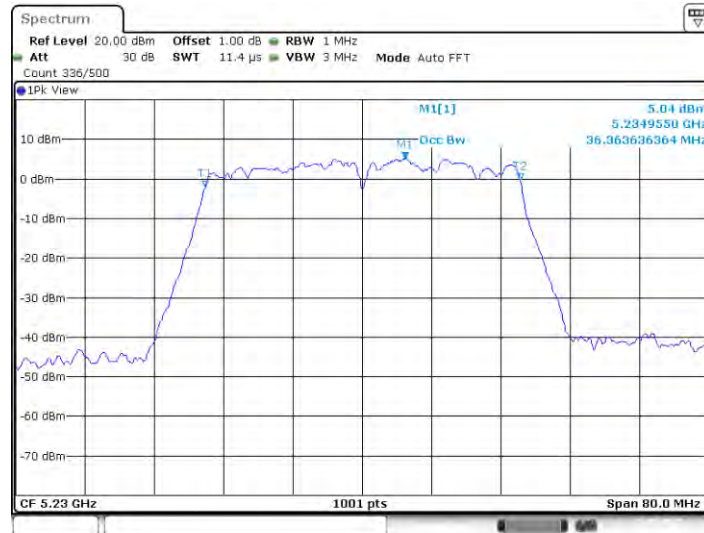


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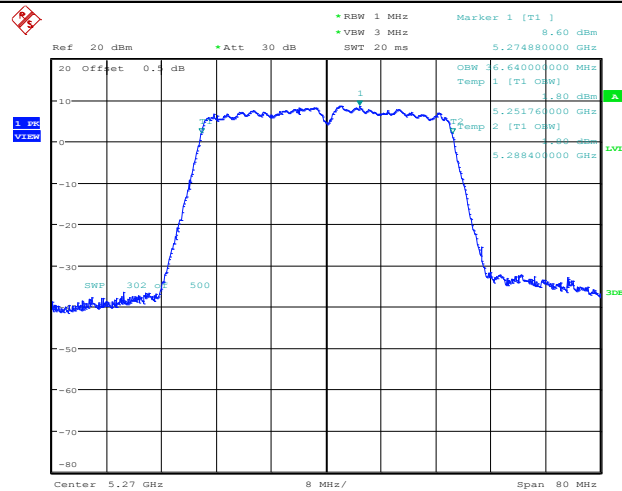
Date: 24.NOV.2020 14:50:54

11AC40MIMO_Ant2_5230



Date: 12.MAY.2021 16:21:32

11AC40MIMO_Ant1_5270

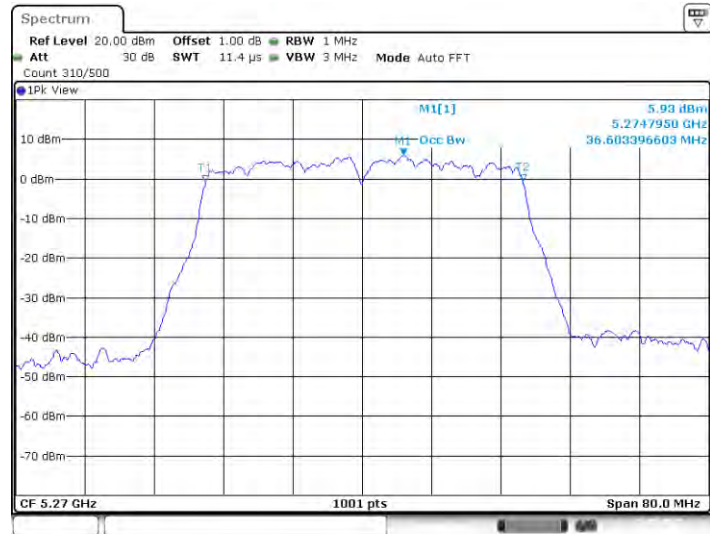


Date: 24.NOV.2020 14:52:40



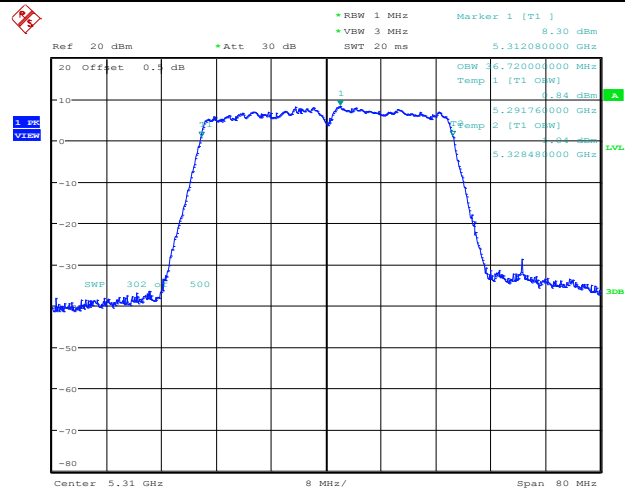
CTC Laboratories, Inc.

11AC40MIMO_Ant2_5270



Date: 12.MAY.2021 16:33:18

11AC40MIMO_Ant1_5310



Date: 24.NOV.2020 14:54:23

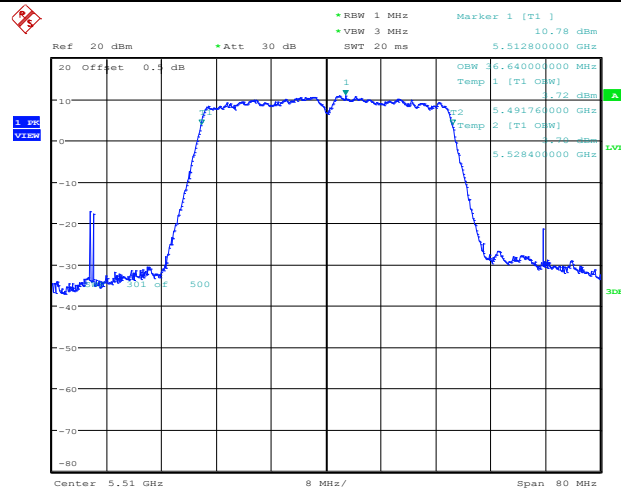
11AC40MIMO_Ant2_5310



CTC Laboratories, Inc.



11AC40MIMO_Ant1_5510



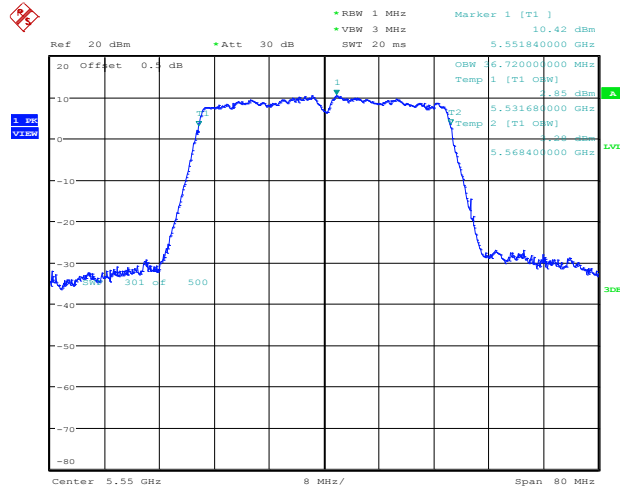
11AC40MIMO_Ant2_5510





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11AC40MIMO_Ant1_5550



Date: 24.NOV.2020 15:00:22

11AC40MIMO_Ant2_5550

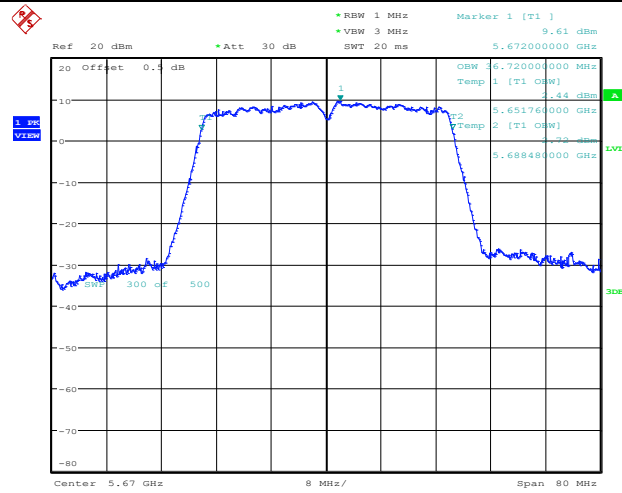


Date: 12.MAY.2021 16:28:06

11AC40MIMO_Ant1_5670

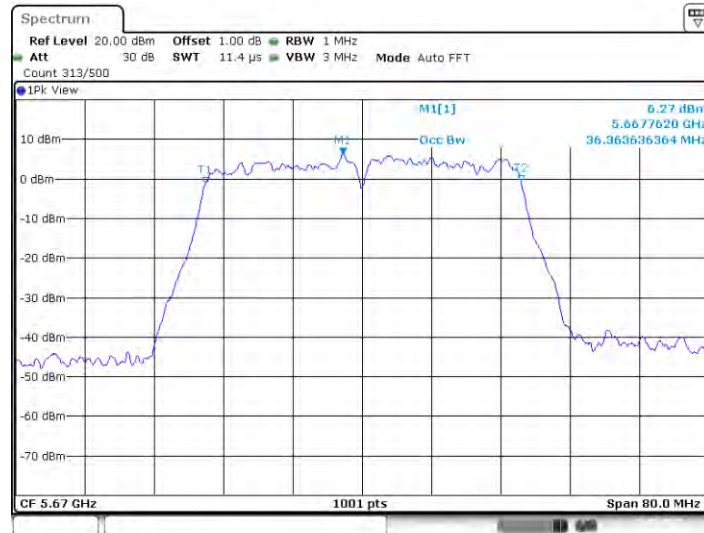


CTC Laboratories, Inc.



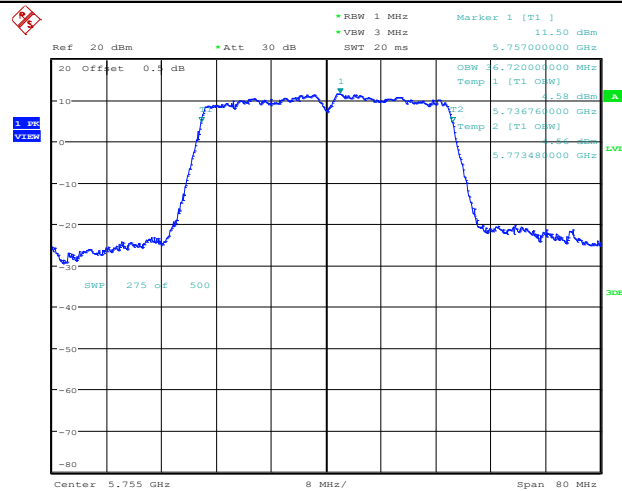
Date: 24.NOV.2020 15:02:08

11AC40MIMO_Ant2_5670



Date: 12.MAY.2021 16:29:52

11AC40MIMO_Ant1_5755



Date: 24.NOV.2020 15:05:38



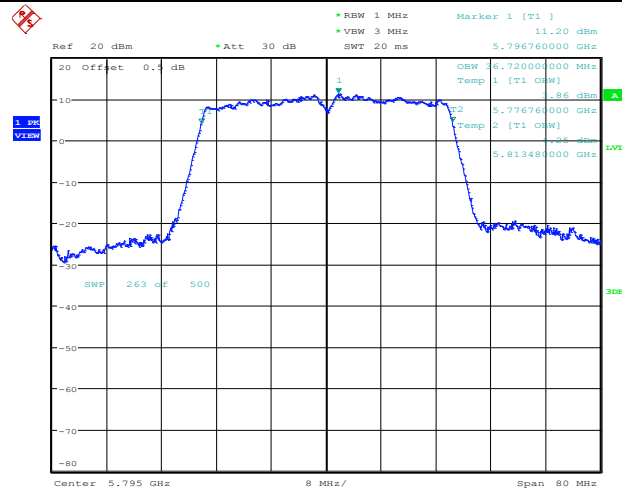
CTC Laboratories, Inc.

11AC40MIMO_Ant2_5755



Date: 12.MAY.2021 16:31:50

11AC40MIMO_Ant1_5795

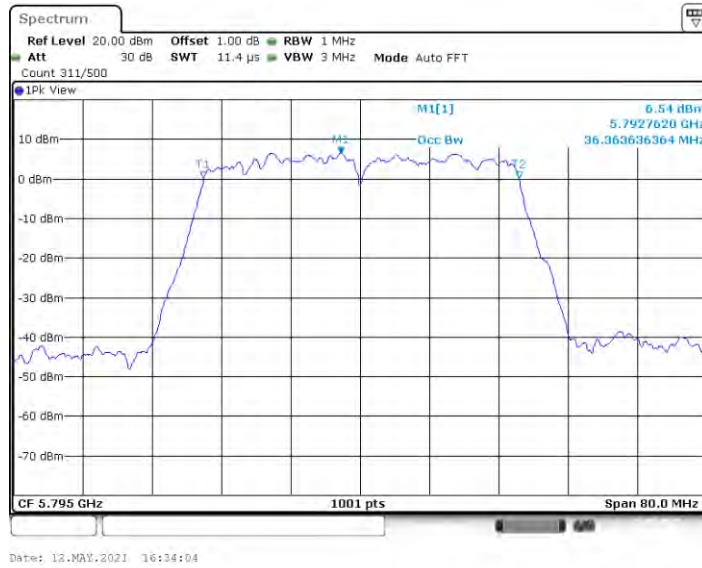


Date: 24.NOV.2020 15:09:01

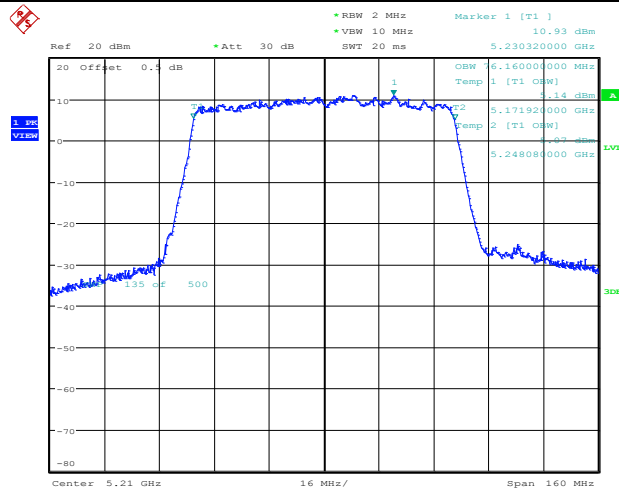
11AC40MIMO_Ant2_5795



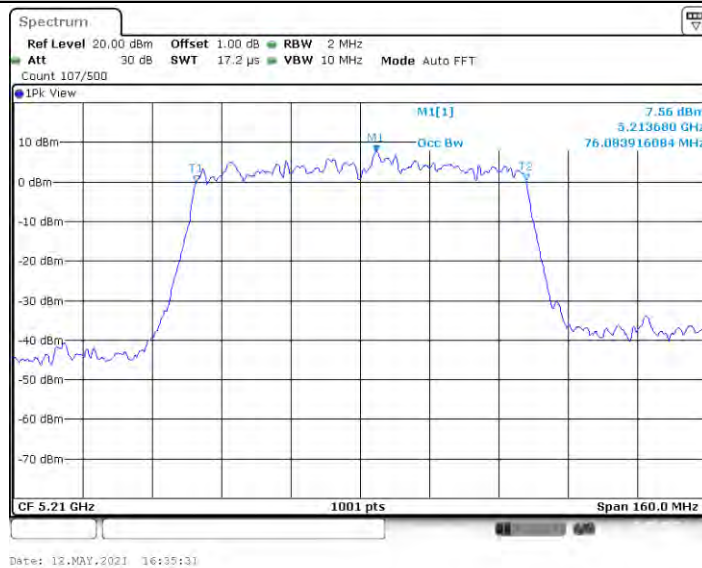
CTC Laboratories, Inc.



11AC80MIMO_Ant1_5210



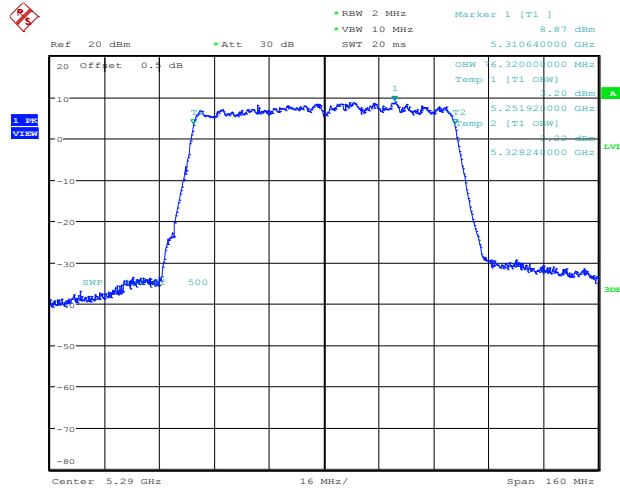
11AC80MIMO_Ant2_5210





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11AC80MIMO_Ant1_5290



Date: 24.NOV.2020 15:15:48

11AC80MIMO_Ant2_5290

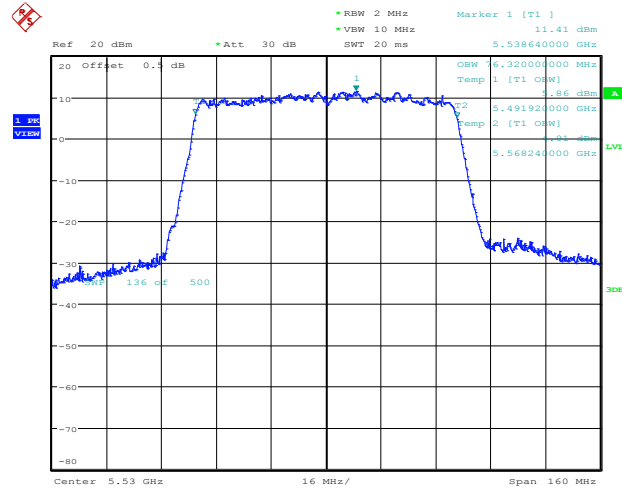


Date: 12.MAY.2021 16:36:58

11AC80MIMO_Ant1_5530

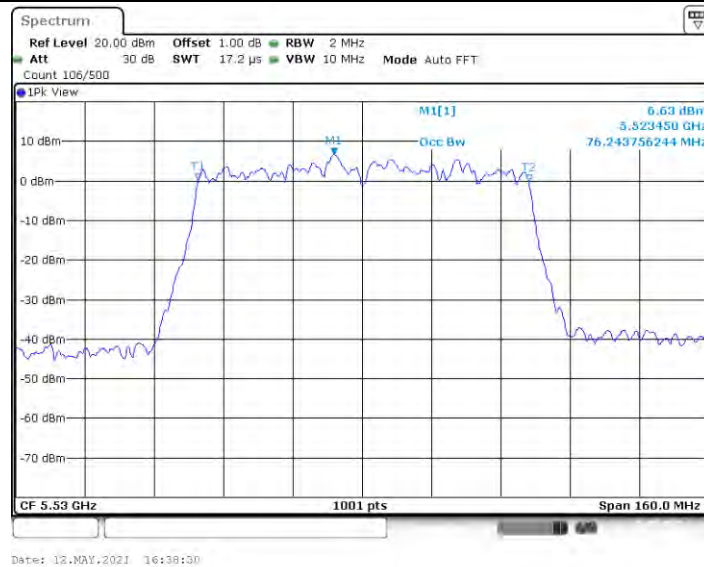


CTC Laboratories, Inc.

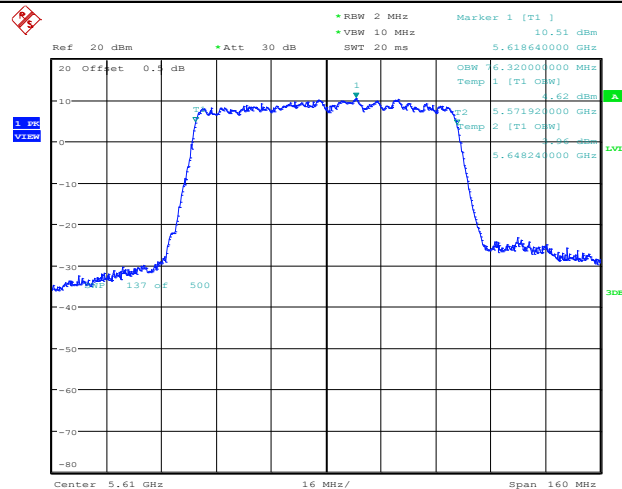


Date: 24.NOV.2020 15:18:48

11AC80MIMO_Ant2_5530



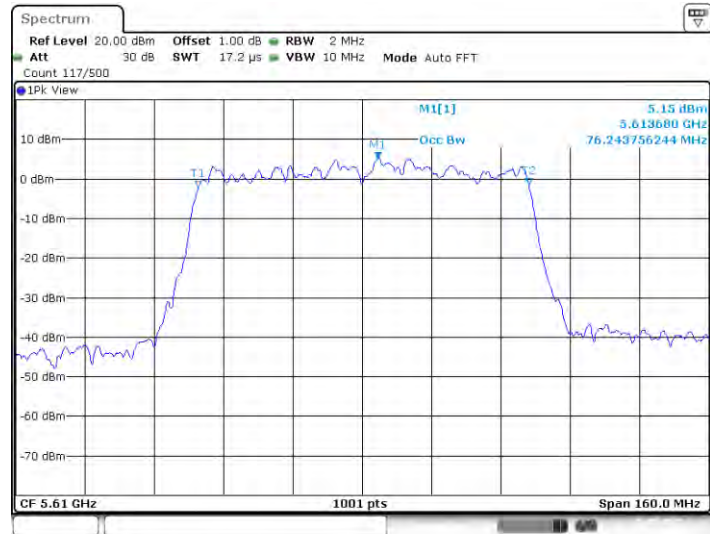
11AC80MIMO_Ant1_5610



Date: 24.NOV.2020 15:22:00

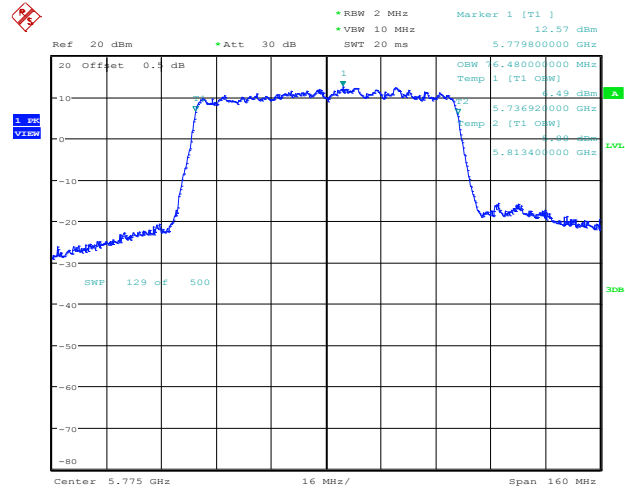


11AC80MIMO_Ant2_5610



Date: 12.MAY.2021 16:39:55

11AC80MIMO_Ant1_5775

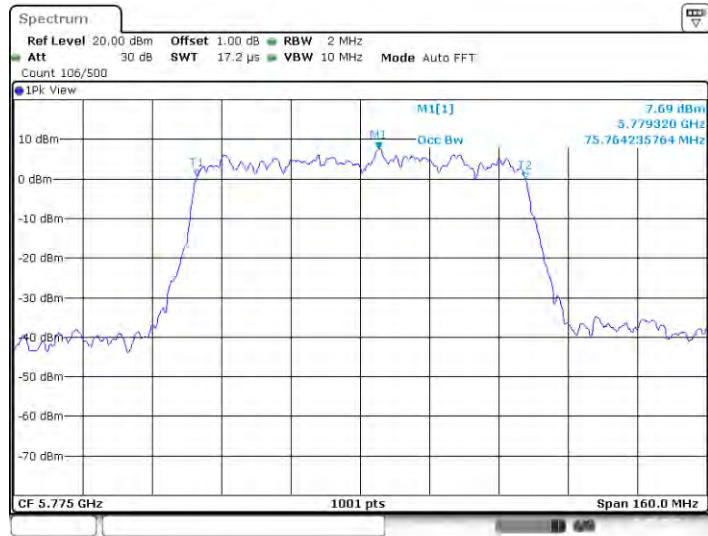


Date: 24.NOV.2020 15:25:31

11AC80MIMO_Ant2_5775



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Date: 12.MAY.2021 16:41:59



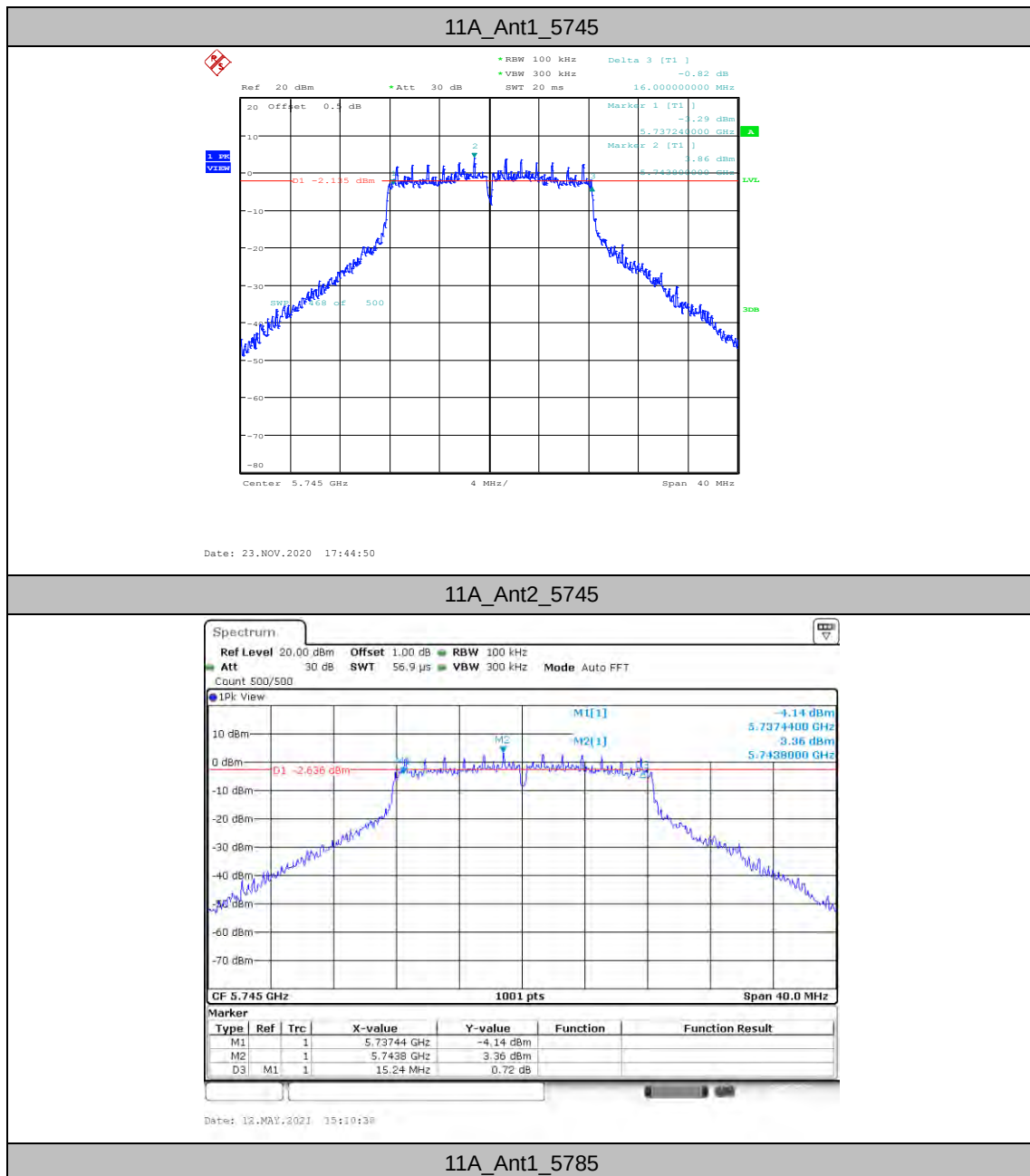
Appendix A3: Min Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency (MHz)	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.000	5737.240	5753.240	0.5	PASS
	Ant2	5745	15.240	5737.440	5752.680	0.5	PASS
	Ant1	5785	15.960	5777.280	5793.240	0.5	PASS
	Ant2	5785	16.000	5777.240	5793.240	0.5	PASS
	Ant1	5825	15.760	5817.240	5833.000	0.5	PASS
	Ant2	5825	15.200	5817.440	5832.640	0.5	PASS
11N20MIMO	Ant1	5745	16.840	5736.640	5753.480	0.5	PASS
	Ant2	5745	15.800	5737.440	5753.240	0.5	PASS
	Ant1	5785	16.880	5776.600	5793.480	0.5	PASS
	Ant2	5785	16.600	5776.640	5793.240	0.5	PASS
	Ant1	5825	16.880	5816.640	5833.520	0.5	PASS
	Ant2	5825	16.600	5816.640	5833.240	0.5	PASS
11N40MIMO	Ant1	5755	35.920	5737.400	5773.320	0.5	PASS
	Ant2	5755	36.480	5736.840	5773.320	0.5	PASS
	Ant1	5795	35.360	5777.400	5812.760	0.5	PASS
	Ant2	5795	36.080	5777.240	5813.320	0.5	PASS
11AC20MIMO	Ant1	5745	15.760	5737.240	5753.000	0.5	PASS
	Ant2	5745	16.400	5736.880	5753.280	0.5	PASS
	Ant1	5785	15.560	5777.440	5793.000	0.5	PASS
	Ant2	5785	16.600	5776.880	5793.480	0.5	PASS
	Ant1	5825	15.720	5817.280	5833.000	0.5	PASS
	Ant2	5825	17.640	5816.240	5833.880	0.5	PASS
11AC40MIMO	Ant1	5755	35.360	5737.400	5772.760	0.5	PASS
	Ant2	5755	35.920	5736.840	5772.760	0.5	PASS
	Ant1	5795	35.920	5777.400	5813.320	0.5	PASS
	Ant2	5795	35.920	5777.400	5813.320	0.5	PASS
11AC80MIMO	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS
	Ant2	5775	75.520	5737.240	5812.760	0.5	PASS

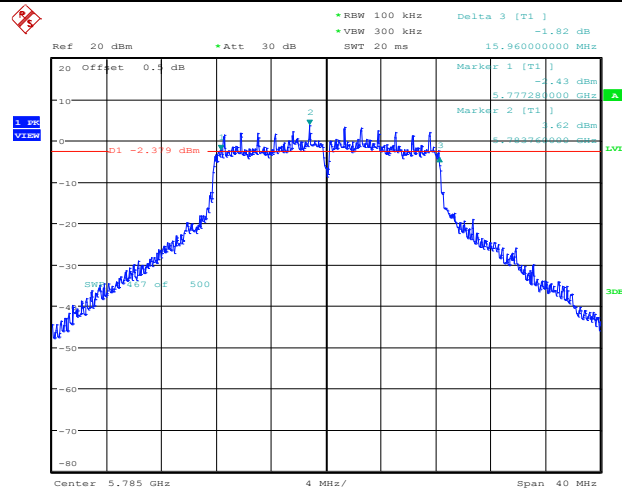


Test Graphs



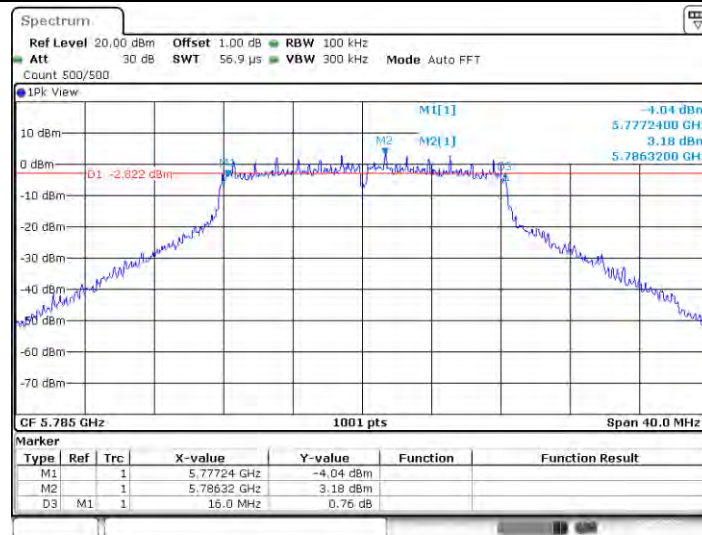


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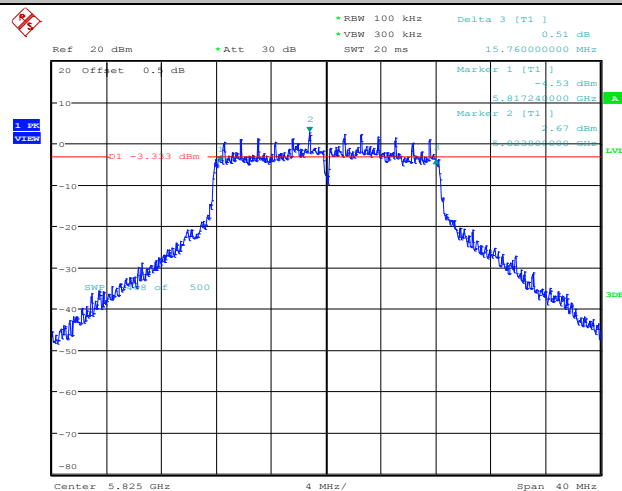
Date: 23.NOV.2020 17:48:17

11A_Ant2_5785



Date: 12.MAY.2021 15:12:27

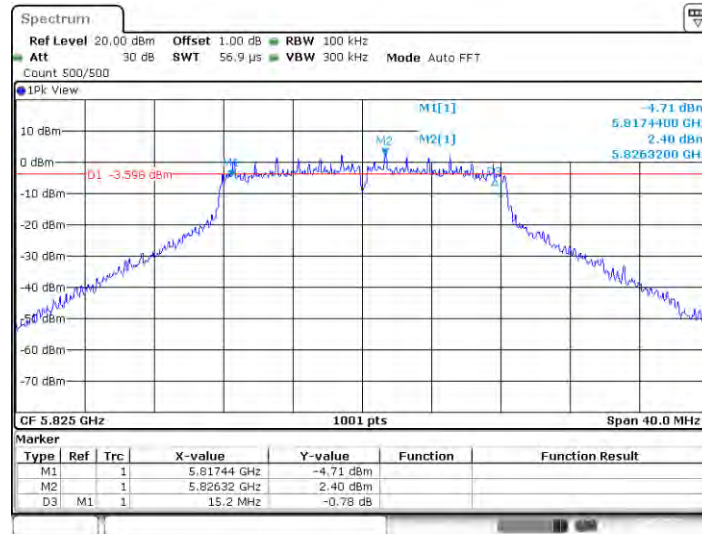
11A_Ant1_5825



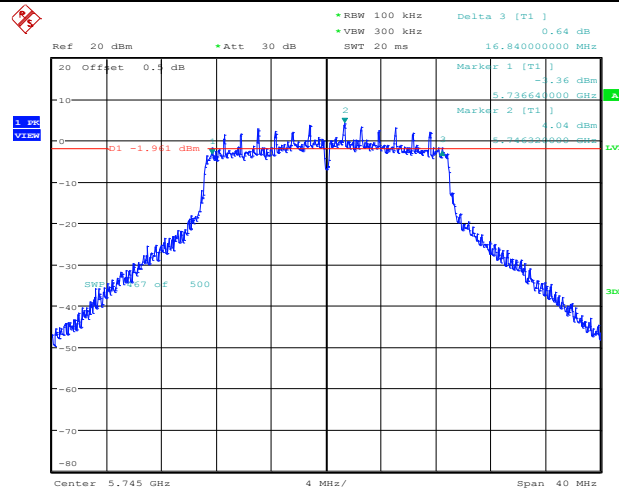
Date: 23.NOV.2020 17:50:35



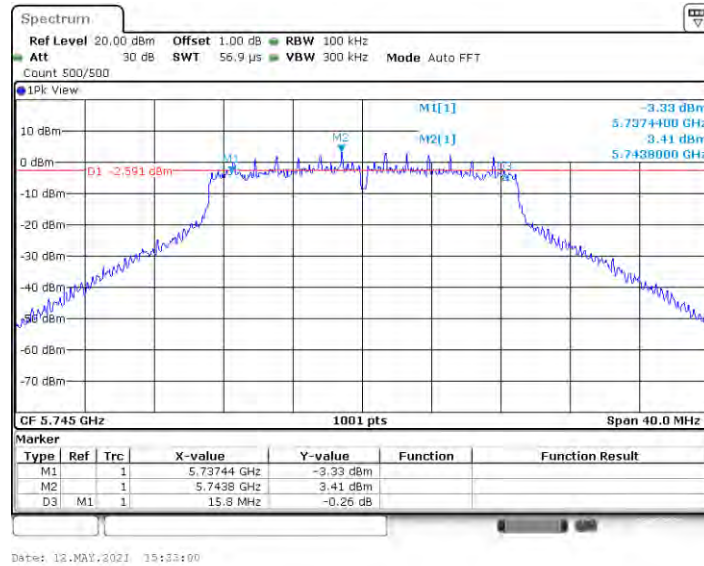
11A_Ant2_5825



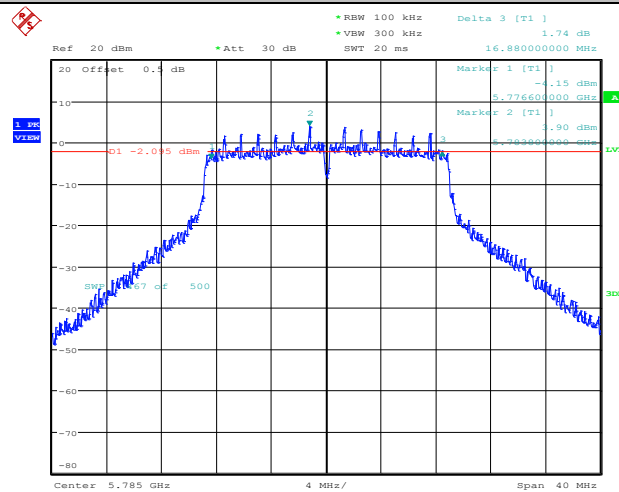
11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745

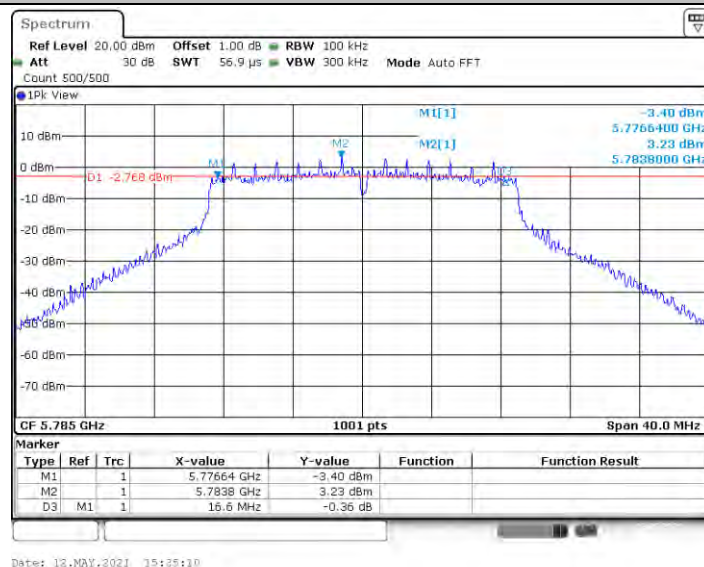


11N20MIMO_Ant1_5785



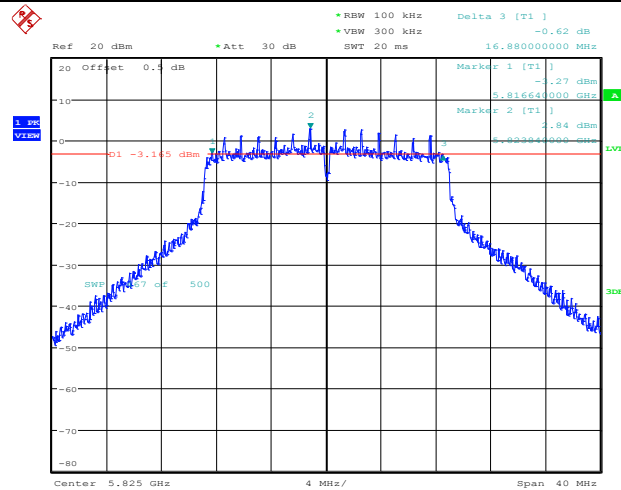
Date: 24.NOV.2020 11:56:39

11N20MIMO_Ant2_5785



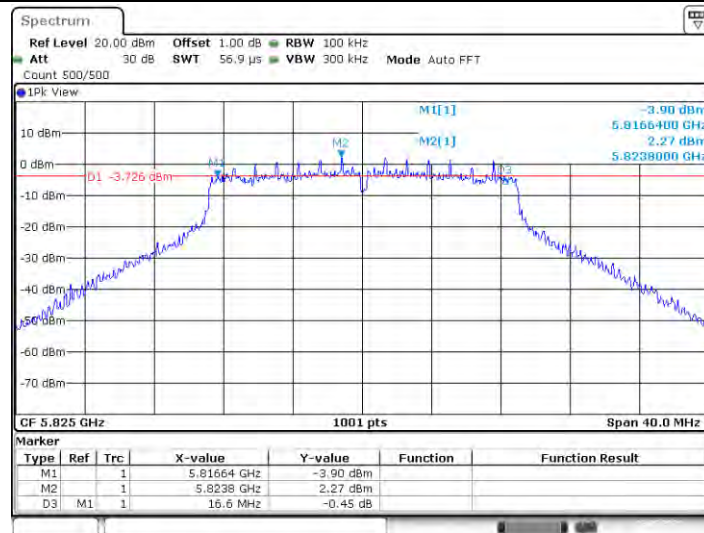


11N20MIMO_Ant1_5825



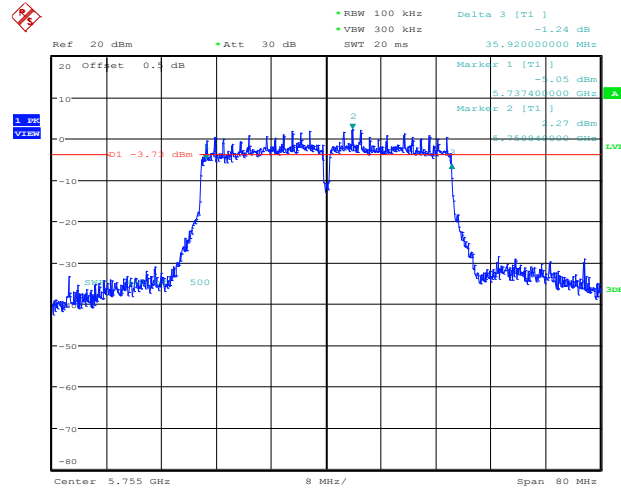
Date: 24.NOV.2020 11:59:44

11N20MIMO_Ant2_5825



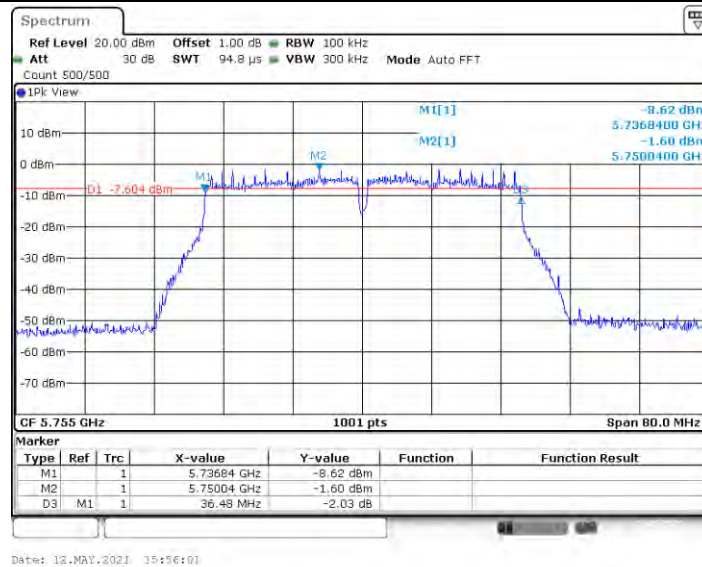
Date: 12.MAY.2021 15:36:54

11N40MIMO_Ant1_5755

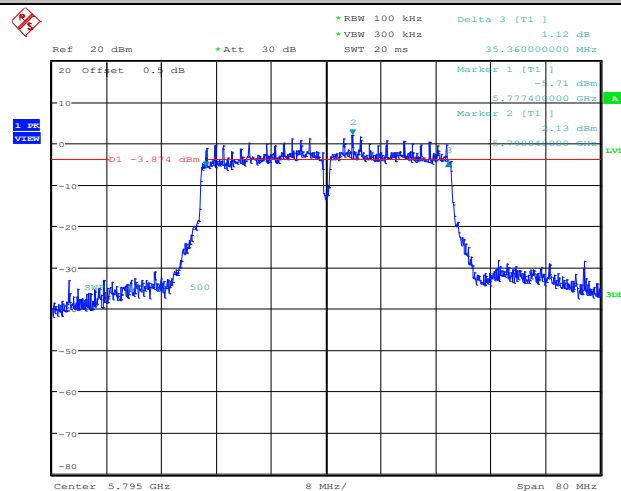


Date: 24.NOV.2020 14:04:19

11N40MIMO_Ant2_5755



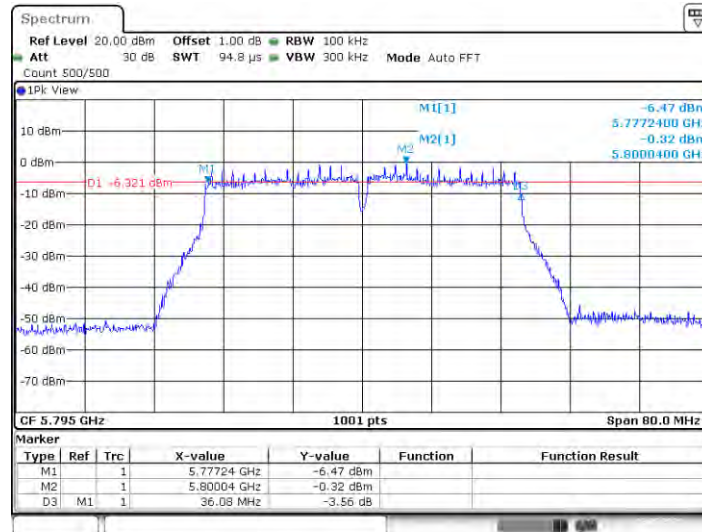
11N40MIMO_Ant1_5795



Date: 24.NOV.2020 14:08:12

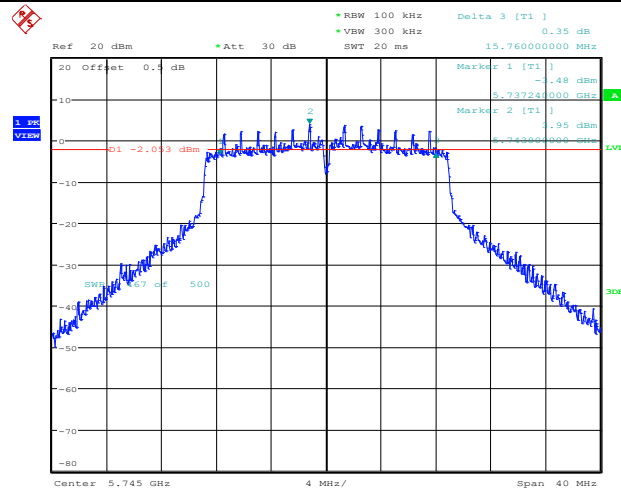


11N40MIMO_Ant2_5795



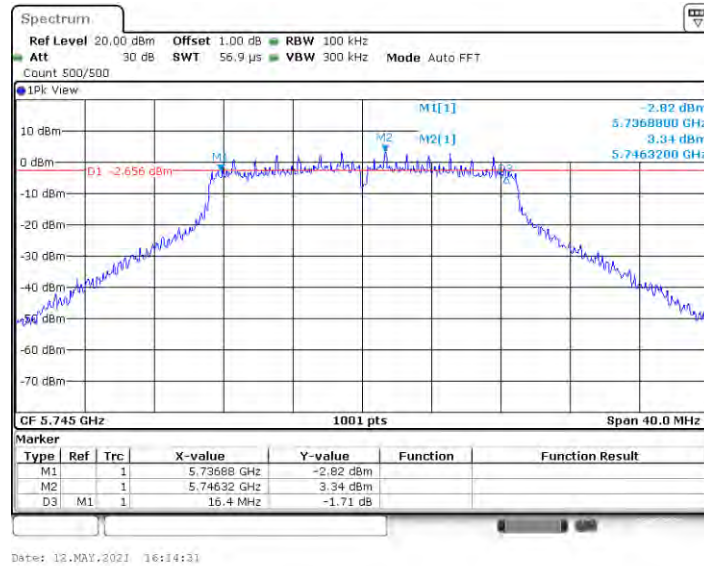
Date: 12.MAY.2021 15:57:53

11AC20MIMO_Ant1_5745

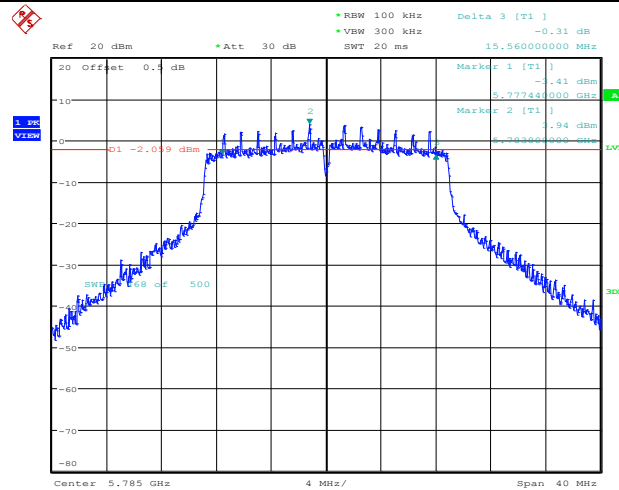


Date: 24.NOV.2020 14:37:06

11AC20MIMO_Ant2_5745

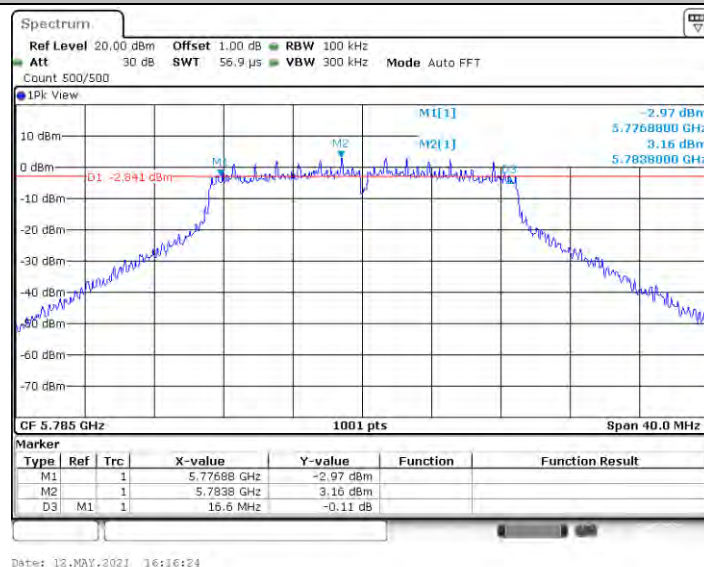


11AC20MIMO_Ant1_5785



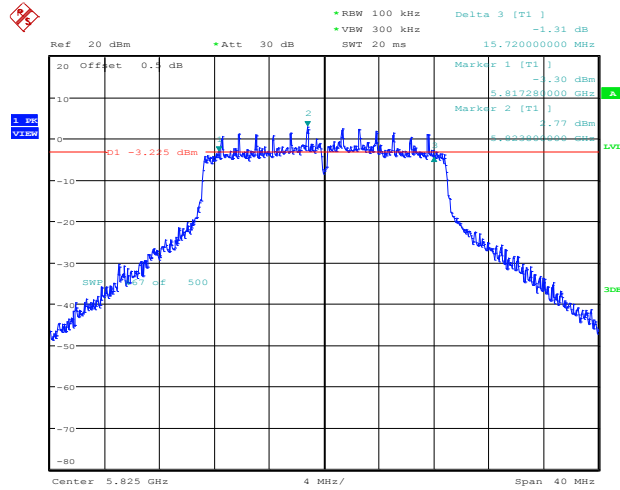
Date: 24.NOV.2020 14:40:31

11AC20MIMO_Ant2_5785



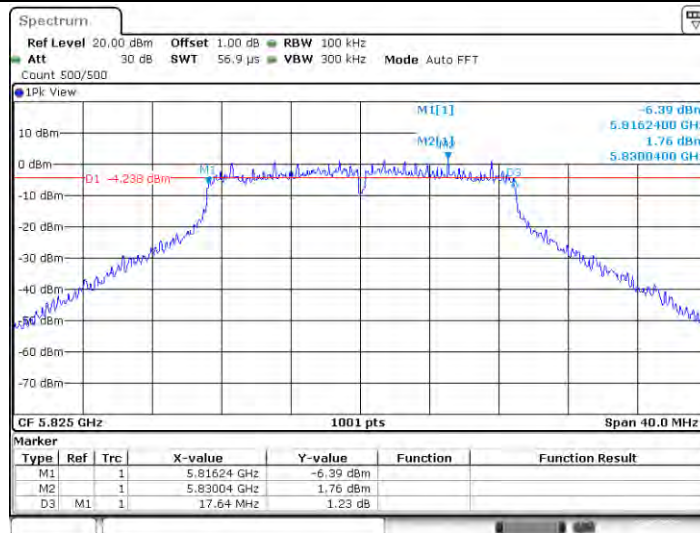


11AC20MIMO_Ant1_5825

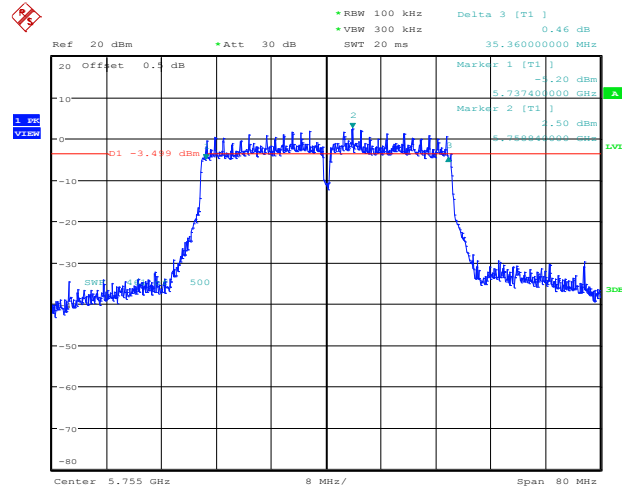


Date: 24.NOV.2020 14:43:43

11AC20MIMO_Ant2_5825

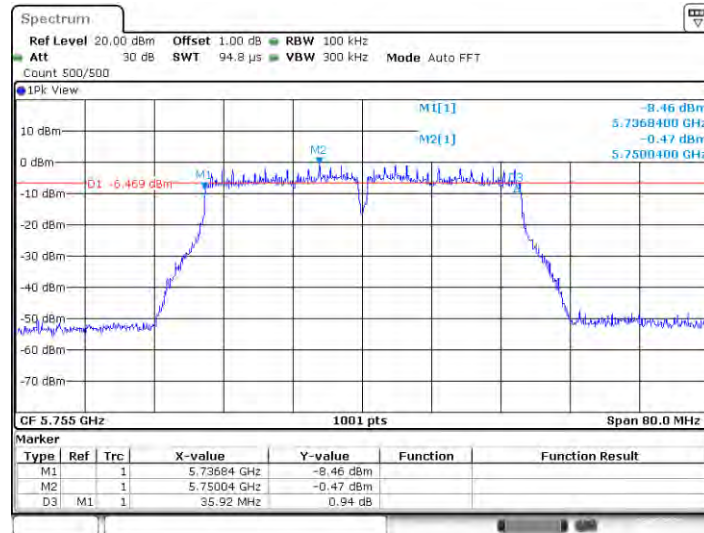


11AC40MIMO_Ant1_5755



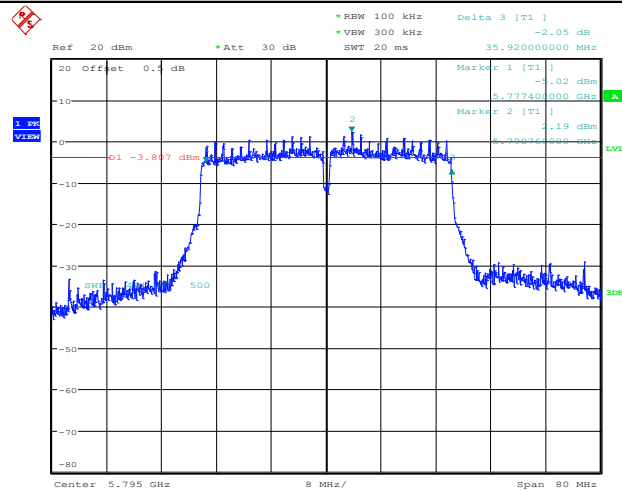
Date: 24.NOV.2020 15:05:16

11AC40MIMO_Ant2_5755



Date: 12.MAY.2021 16:31:38

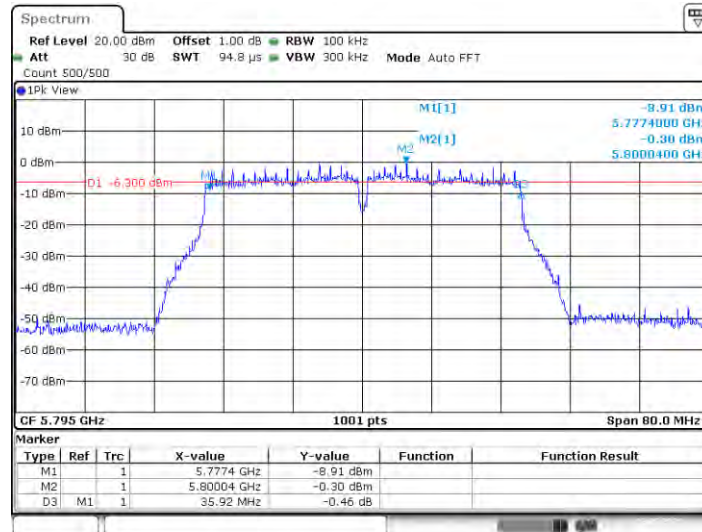
11AC40MIMO_Ant1_5795



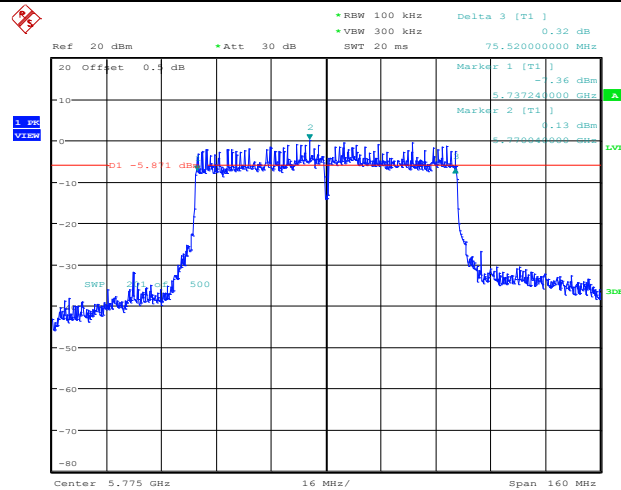
Date: 24.NOV.2020 15:08:39



11AC40MIMO_Ant2_5795



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



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Date: 12.MAY.2021 16:41:46



Appendix B: Maximum Conducted Output Power

Test Result

Test Mode	Antenna	Frequency (MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	12.5	<=24.0	PASS
	Ant2	5180	13.3	<=24.0	PASS
	Ant1	5200	11.6	<=24.0	PASS
	Ant2	5200	13.0	<=24.0	PASS
	Ant1	5240	11.3	<=24.0	PASS
	Ant2	5240	12.0	<=24.0	PASS
	Ant1	5260	11.1	<=24.0	PASS
	Ant2	5260	12.2	<=24.0	PASS
	Ant1	5280	11.0	<=24.0	PASS
	Ant2	5280	13.2	<=24.0	PASS
	Ant1	5320	11.0	<=24.0	PASS
	Ant2	5320	13.7	<=24.0	PASS
	Ant1	5500	12.4	<=24.0	PASS
	Ant2	5500	12.7	<=24.0	PASS
	Ant1	5580	10.3	<=24.0	PASS
	Ant2	5580	11.0	<=24.0	PASS
	Ant1	5700	12.4	<=24.0	PASS
	Ant2	5700	12.9	<=24.0	PASS
	Ant1	5745	13.7	<=30.0	PASS
	Ant2	5745	13.4	<=30.0	PASS
	Ant1	5785	13.7	<=30.0	PASS
	Ant2	5785	13.6	<=30.0	PASS
	Ant1	5825	12.3	<=30.0	PASS
	Ant2	5825	12.6	<=30.0	PASS
11N20MIMO	Ant1	5180	12.3	<=24.0	PASS
	Ant2	5180	13.2	<=24.0	PASS
	total	5180	15.8	<=24.0	PASS
	Ant1	5200	11.4	<=24.0	PASS
	Ant2	5200	12.8	<=24.0	PASS
	total	5200	15.2	<=24.0	PASS
	Ant1	5240	11.1	<=24.0	PASS
	Ant2	5240	11.9	<=24.0	PASS
	total	5240	14.5	<=24.0	PASS
	Ant1	5260	10.9	<=24.0	PASS
	Ant2	5260	12.0	<=24.0	PASS
	total	5260	14.5	<=24.0	PASS
	Ant1	5280	10.9	<=24.0	PASS



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	Ant2	5280	12.1	<=24.0	PASS
	total	5280	14.6	<=24.0	PASS
	Ant1	5320	10.8	<=24.0	PASS
	Ant2	5320	12.5	<=24.0	PASS
	total	5320	14.7	<=24.0	PASS
	Ant1	5500	12.2	<=24.0	PASS
	Ant2	5500	12.6	<=24.0	PASS
	total	5500	15.4	<=24.0	PASS
	Ant1	5580	10.1	<=24.0	PASS
	Ant2	5580	10.9	<=24.0	PASS
	total	5580	13.5	<=24.0	PASS
	Ant1	5700	12.2	<=24.0	PASS
	Ant2	5700	12.9	<=24.0	PASS
	total	5700	15.6	<=24.0	PASS
	Ant1	5745	13.6	<=30.0	PASS
	Ant2	5745	13.2	<=30.0	PASS
	total	5745	16.4	<=30.0	PASS
	Ant1	5785	13.5	<=30.0	PASS
	Ant2	5785	13.4	<=30.0	PASS
	total	5785	16.5	<=30.0	PASS
	Ant1	5825	12.2	<=30.0	PASS
	Ant2	5825	12.5	<=30.0	PASS
	total	5825	15.4	<=30.0	PASS
11N40MIMO	Ant1	5190	12.1	<=24.0	PASS
	Ant2	5190	12.4	<=24.0	PASS
	total	5190	15.3	<=24.0	PASS
	Ant1	5230	11.2	<=24.0	PASS
	Ant2	5230	11.2	<=24.0	PASS
	total	5230	14.2	<=24.0	PASS
	Ant1	5270	11.0	<=24.0	PASS
	Ant2	5270	11.6	<=24.0	PASS
	total	5270	14.3	<=24.0	PASS
	Ant1	5310	10.9	<=24.0	PASS
	Ant2	5310	12.0	<=24.0	PASS
	total	5310	14.5	<=24.0	PASS
	Ant1	5510	11.6	<=24.0	PASS
	Ant2	5510	11.8	<=24.0	PASS
	total	5510	14.7	<=24.0	PASS
	Ant1	5550	10.4	<=24.0	PASS
	Ant2	5550	10.6	<=24.0	PASS
	total	5550	13.5	<=24.0	PASS
	Ant1	5670	11.3	<=24.0	PASS
	Ant2	5670	11.8	<=24.0	PASS



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	total	5670	14.6	<=24.0	PASS
	Ant1	5755	13.3	<=30.0	PASS
	Ant2	5755	13.1	<=30.0	PASS
	total	5755	16.2	<=30.0	PASS
	Ant1	5795	13.1	<=30.0	PASS
	Ant2	5795	12.7	<=30.0	PASS
	total	5795	15.9	<=30.0	PASS
11AC20MIMO	Ant1	5180	12.3	<=24.0	PASS
	Ant2	5180	13.2	<=24.0	PASS
	total	5180	15.8	<=24.0	PASS
	Ant1	5200	11.5	<=24.0	PASS
	Ant2	5200	12.9	<=24.0	PASS
	total	5200	15.3	<=24.0	PASS
	Ant1	5240	11.1	<=24.0	PASS
	Ant2	5240	11.9	<=24.0	PASS
	total	5240	14.5	<=24.0	PASS
	Ant1	5260	10.9	<=24.0	PASS
	Ant2	5260	12.0	<=24.0	PASS
	total	5260	14.5	<=24.0	PASS
	Ant1	5280	10.9	<=24.0	PASS
	Ant2	5280	12.1	<=24.0	PASS
	total	5280	14.6	<=24.0	PASS
	Ant1	5320	10.8	<=24.0	PASS
	Ant2	5320	12.5	<=24.0	PASS
	total	5320	14.7	<=24.0	PASS
	Ant1	5500	12.3	<=24.0	PASS
	Ant2	5500	12.6	<=24.0	PASS
	total	5500	15.5	<=24.0	PASS
	Ant1	5580	10.1	<=24.0	PASS
	Ant2	5580	10.8	<=24.0	PASS
	total	5580	13.5	<=24.0	PASS
	Ant1	5700	12.2	<=24.0	PASS
	Ant2	5700	12.8	<=24.0	PASS
	total	5700	15.5	<=24.0	PASS
	Ant1	5745	13.6	<=30.0	PASS
	Ant2	5745	13.2	<=30.0	PASS
	total	5745	16.4	<=30.0	PASS
	Ant1	5785	13.5	<=30.0	PASS
	Ant2	5785	13.4	<=30.0	PASS
	total	5785	16.5	<=30.0	PASS
	Ant1	5825	12.1	<=30.0	PASS
	Ant2	5825	12.6	<=30.0	PASS
	total	5825	15.4	<=30.0	PASS



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11AC40MIMO	Ant1	5190	12.1	≤ 24.0	PASS
	Ant2	5190	13.4	≤ 24.0	PASS
	total	5190	15.8	≤ 24.0	PASS
	Ant1	5230	11.2	≤ 24.0	PASS
	Ant2	5230	11.3	≤ 24.0	PASS
	total	5230	14.5	≤ 24.0	PASS
	Ant1	5270	10.9	≤ 24.0	PASS
	Ant2	5270	11.6	≤ 24.0	PASS
	total	5270	14.3	≤ 24.0	PASS
	Ant1	5310	10.9	≤ 24.0	PASS
	Ant2	5310	12.0	≤ 24.0	PASS
	total	5310	14.5	≤ 24.0	PASS
	Ant1	5510	11.5	≤ 24.0	PASS
	Ant2	5510	11.8	≤ 24.0	PASS
	total	5510	14.7	≤ 24.0	PASS
	Ant1	5550	10.4	≤ 24.0	PASS
	Ant2	5550	10.6	≤ 24.0	PASS
	total	5550	13.5	≤ 24.0	PASS
	Ant1	5670	11.3	≤ 24.0	PASS
	Ant2	5670	11.8	≤ 24.0	PASS
	total	5670	14.6	≤ 24.0	PASS
	Ant1	5755	12.3	≤ 30.0	PASS
	Ant2	5755	12.8	≤ 30.0	PASS
	total	5755	15.6	≤ 30.0	PASS
	Ant1	5795	12.1	≤ 30.0	PASS
	Ant2	5795	12.8	≤ 30.0	PASS
	total	5795	15.6	≤ 30.0	PASS
11AC80MIMO	Ant1	5210	10.9	≤ 24.0	PASS
	Ant2	5210	12.1	≤ 24.0	PASS
	total	5210	14.6	≤ 24.0	PASS
	Ant1	5290	10.7	≤ 24.0	PASS
	Ant2	5290	11.7	≤ 24.0	PASS
	total	5290	14.2	≤ 24.0	PASS
	Ant1	5530	11.0	≤ 24.0	PASS
	Ant2	5530	11.4	≤ 24.0	PASS
	total	5530	14.2	≤ 24.0	PASS
	Ant1	5610	10.3	≤ 24.0	PASS
	Ant2	5610	11.1	≤ 24.0	PASS
	total	5610	13.7	≤ 24.0	PASS
	Ant1	5775	12.1	≤ 30.0	PASS
	Ant2	5775	12.9	≤ 30.0	PASS
	total	5775	15.5	≤ 30.0	PASS

Note: The Duty Cycle Factor is compensated in the graph.



Appendix C: Maximum Power Spectral Density

Test Result

TestMode	Antenna	Frequency (MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.29	<=11	PASS
	Ant2	5180	1.46	<=11	PASS
	Ant1	5200	0.46	<=11	PASS
	Ant2	5200	1.27	<=11	PASS
	Ant1	5240	0.15	<=11	PASS
	Ant2	5240	0.55	<=11	PASS
	Ant1	5260	-0.19	<=11	PASS
	Ant2	5260	0.60	<=11	PASS
	Ant1	5280	-0.17	<=11	PASS
	Ant2	5280	0.86	<=11	PASS
	Ant1	5320	0.14	<=11	PASS
	Ant2	5320	1.32	<=11	PASS
	Ant1	5500	1.01	<=11	PASS
	Ant2	5500	0.99	<=11	PASS
	Ant1	5580	-1.00	<=11	PASS
	Ant2	5580	-0.70	<=11	PASS
	Ant1	5700	1.13	<=11	PASS
	Ant2	5700	1.58	<=11	PASS
	Ant1	5745	-0.27	<=30	PASS
	Ant2	5745	-0.73	<=30	PASS
	Ant1	5785	-0.40	<=30	PASS
	Ant2	5785	-0.78	<=30	PASS
	Ant1	5825	-1.39	<=30	PASS
	Ant2	5825	-1.47	<=30	PASS
11N20MIMO	Ant1	5180	0.37	<=11	PASS
	Ant2	5180	0.63	<=11	PASS
	total	5180	3.51	11	PASS
	Ant1	5200	-0.43	<=11	PASS
	Ant2	5200	0.49	<=11	PASS
	total	5200	3.06	11	PASS
	Ant1	5240	-0.86	<=11	PASS
	Ant2	5240	-0.11	<=11	PASS
	total	5240	2.54	11	PASS
	Ant1	5260	-0.58	<=11	PASS
	Ant2	5260	0.20	<=11	PASS
	total	5260	2.84	11	PASS
	Ant1	5280	-0.62	<=11	PASS



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	Ant2	5280	0.34	<=11	PASS
	total	5280	2.90	11	PASS
	Ant1	5320	-1.14	<=11	PASS
	Ant2	5320	0.79	<=11	PASS
	total	5320	2.94	11	PASS
	Ant1	5500	0.28	<=11	PASS
	Ant2	5500	0.69	<=11	PASS
	total	5500	3.50	11	PASS
	Ant1	5580	-1.66	<=11	PASS
	Ant2	5580	-1.15	<=11	PASS
	total	5580	1.61	11	PASS
	Ant1	5700	0.08	<=11	PASS
	Ant2	5700	0.97	<=11	PASS
	total	5700	3.56	11	PASS
	Ant1	5745	-0.68	<=30	PASS
	Ant2	5745	-1.50	<=30	PASS
	total	5745	1.94	30	PASS
	Ant1	5785	-0.77	<=30	PASS
	Ant2	5785	-1.50	<=30	PASS
	total	5785	1.89	30	PASS
	Ant1	5825	-2.49	<=30	PASS
	Ant2	5825	-2.41	<=30	PASS
	total	5825	0.56	30	PASS
11N40MIMO	Ant1	5190	-2.36	<=11	PASS
	Ant2	5190	-2.27	<=11	PASS
	total	5190	0.70	11	PASS
	Ant1	5230	-3.07	<=11	PASS
	Ant2	5230	-3.18	<=11	PASS
	total	5230	-0.11	11	PASS
	Ant1	5270	-3.49	<=11	PASS
	Ant2	5270	-2.81	<=11	PASS
	total	5270	-0.13	11	PASS
	Ant1	5310	-3.27	<=11	PASS
	Ant2	5310	-2.16	<=11	PASS
	total	5310	0.33	11	PASS
	Ant1	5510	-2.78	<=11	PASS
	Ant2	5510	-2.75	<=11	PASS
	total	5510	0.25	11	PASS
	Ant1	5550	-3.77	<=11	PASS
	Ant2	5550	-3.75	<=11	PASS
	total	5550	-0.75	11	PASS
	Ant1	5670	-2.72	<=11	PASS
	Ant2	5670	-2.46	<=11	PASS



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	total	5670	0.42	11	PASS
	Ant1	5755	-3.80	<=30	PASS
	Ant2	5755	-4.60	<=30	PASS
	total	5755	-1.17	30	PASS
	Ant1	5795	-3.65	<=30	PASS
	Ant2	5795	-4.25	<=30	PASS
	total	5795	-0.93	30	PASS
11AC20MIMO	Ant1	5180	0.59	<=11	PASS
	Ant2	5180	1.03	<=11	PASS
	total	5180	3.83	11	PASS
	Ant1	5200	-0.34	<=11	PASS
	Ant2	5200	1.03	<=11	PASS
	total	5200	3.41	11	PASS
	Ant1	5240	-0.47	<=11	PASS
	Ant2	5240	0.31	<=11	PASS
	total	5240	2.95	11	PASS
	Ant1	5260	-0.71	<=11	PASS
	Ant2	5260	0.32	<=11	PASS
	total	5260	2.85	11	PASS
	Ant1	5280	-0.75	<=11	PASS
	Ant2	5280	0.48	<=11	PASS
	total	5280	2.92	11	PASS
	Ant1	5320	-0.45	<=11	PASS
	Ant2	5320	1.02	<=11	PASS
	total	5320	3.36	11	PASS
	Ant1	5500	0.66	<=11	PASS
	Ant2	5500	0.82	<=11	PASS
	total	5500	3.75	11	PASS
	Ant1	5580	-1.49	<=11	PASS
	Ant2	5580	-0.79	<=11	PASS
	total	5580	1.88	11	PASS
	Ant1	5700	0.79	<=11	PASS
	Ant2	5700	0.98	<=11	PASS
	total	5700	3.90	11	PASS
	Ant1	5745	-0.68	<=30	PASS
	Ant2	5745	-1.15	<=30	PASS
	total	5745	2.10	30	PASS
	Ant1	5785	-0.79	<=30	PASS
	Ant2	5785	-1.28	<=30	PASS
	total	5785	1.98	30	PASS
	Ant1	5825	-2.03	<=30	PASS
	Ant2	5825	-1.87	<=30	PASS
	total	5825	1.06	30	PASS



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11AC40MIMO	Ant1	5190	-2.19	≤ 11	PASS
	Ant2	5190	-2.17	≤ 11	PASS
	total	5190	0.83	11	PASS
	Ant1	5230	-2.76	≤ 11	PASS
	Ant2	5230	-3.09	≤ 11	PASS
	total	5230	0.09	11	PASS
	Ant1	5270	-3.18	≤ 11	PASS
	Ant2	5270	-2.82	≤ 11	PASS
	total	5270	0.01	11	PASS
	Ant1	5310	-2.98	≤ 11	PASS
	Ant2	5310	-2.07	≤ 11	PASS
	total	5310	0.51	11	PASS
	Ant1	5510	-2.57	≤ 11	PASS
	Ant2	5510	-2.53	≤ 11	PASS
	total	5510	0.46	11	PASS
	Ant1	5550	-3.51	≤ 11	PASS
	Ant2	5550	-3.55	≤ 11	PASS
	total	5550	-0.52	11	PASS
	Ant1	5670	-2.66	≤ 11	PASS
	Ant2	5670	-2.39	≤ 11	PASS
	total	5670	0.49	11	PASS
	Ant1	5755	-3.58	≤ 30	PASS
	Ant2	5755	-4.39	≤ 30	PASS
	total	5755	-0.96	30	PASS
	Ant1	5795	-3.77	≤ 30	PASS
	Ant2	5795	-4.40	≤ 30	PASS
	total	5795	-1.06	30	PASS
11AC80MIMO	Ant1	5210	-6.65	≤ 11	PASS
	Ant2	5210	-5.79	≤ 11	PASS
	total	5210	-3.19	11	PASS
	Ant1	5290	-6.63	≤ 11	PASS
	Ant2	5290	-6.03	≤ 11	PASS
	total	5290	-3.31	11	PASS
	Ant1	5530	-6.66	≤ 11	PASS
	Ant2	5530	-6.54	≤ 11	PASS
	total	5530	-3.59	11	PASS
	Ant1	5610	-7.70	≤ 11	PASS
	Ant2	5610	-7.25	≤ 11	PASS
	total	5610	-4.46	11	PASS
	Ant1	5775	-7.13	≤ 30	PASS
	Ant2	5775	-7.36	≤ 30	PASS
	total	5775	-4.23	30	PASS

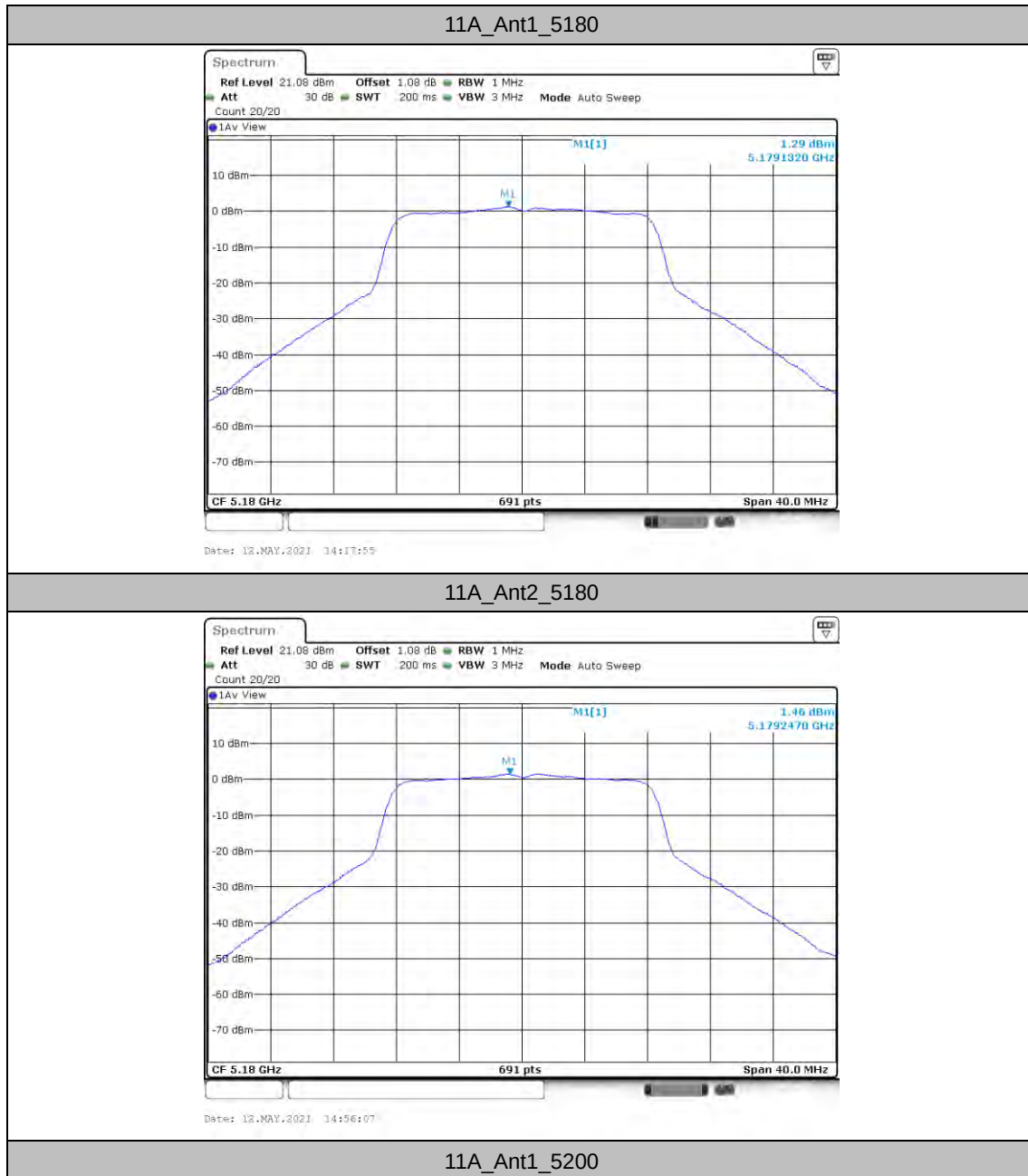


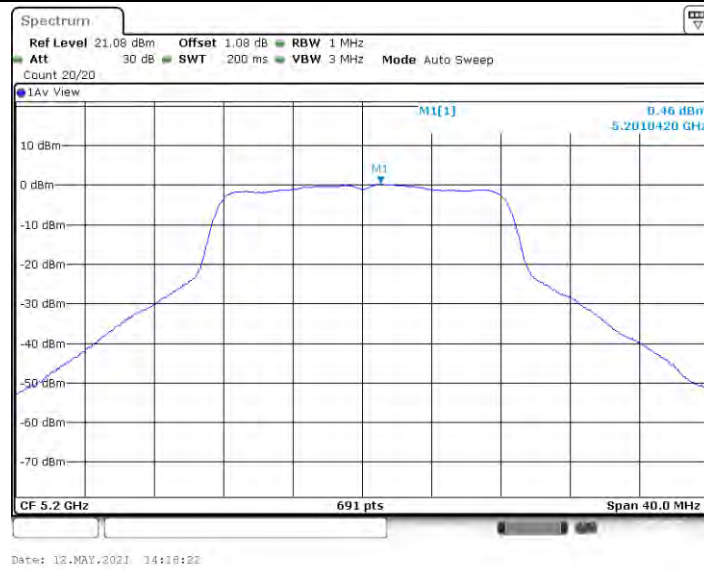
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Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs





11A_Ant2_5200



11A_Ant1_5240





11A_Ant2_5240



11A_Ant1_5260



11A_Ant2_5260



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11A_Ant1_5280

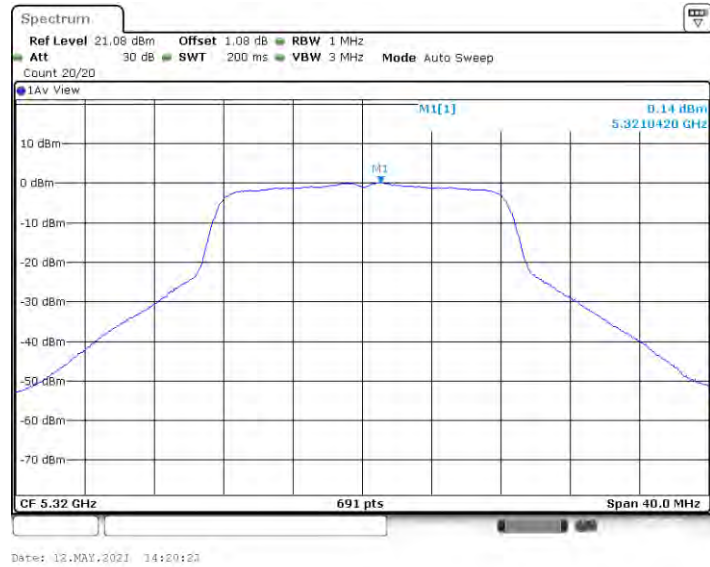


11A_Ant2_5280





11A_Ant1_5320



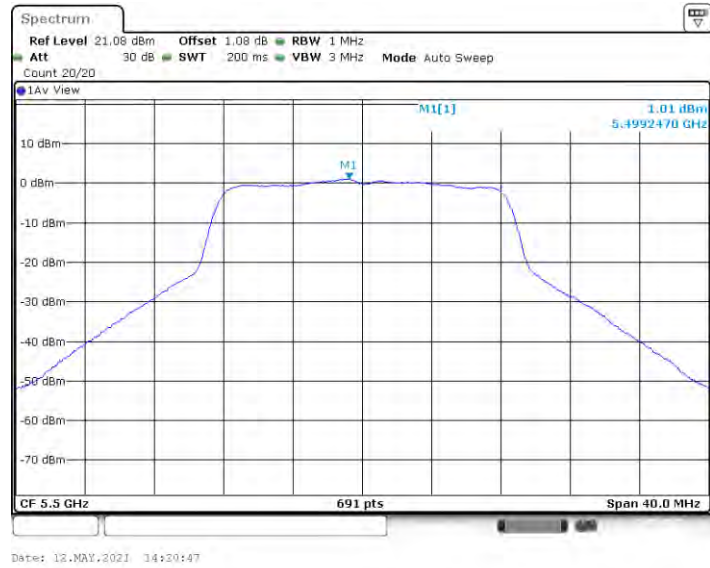
11A_Ant2_5320



11A_Ant1_5500



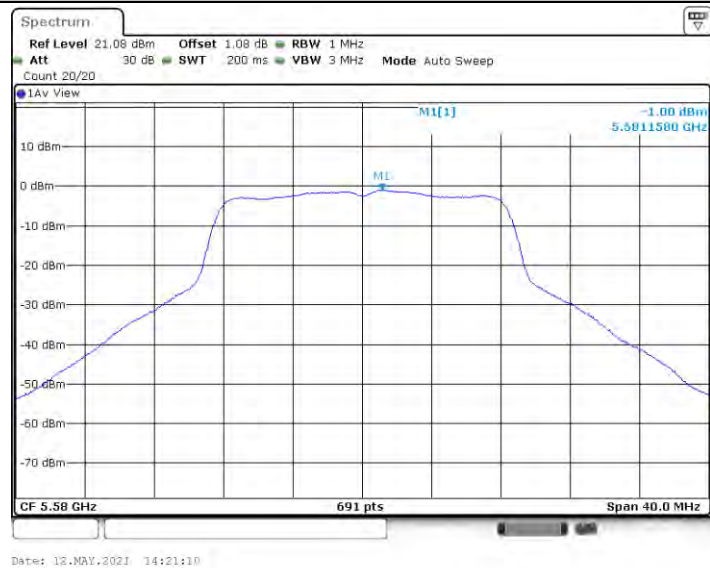
CTC Laboratories, Inc.



11A_Ant2_5500

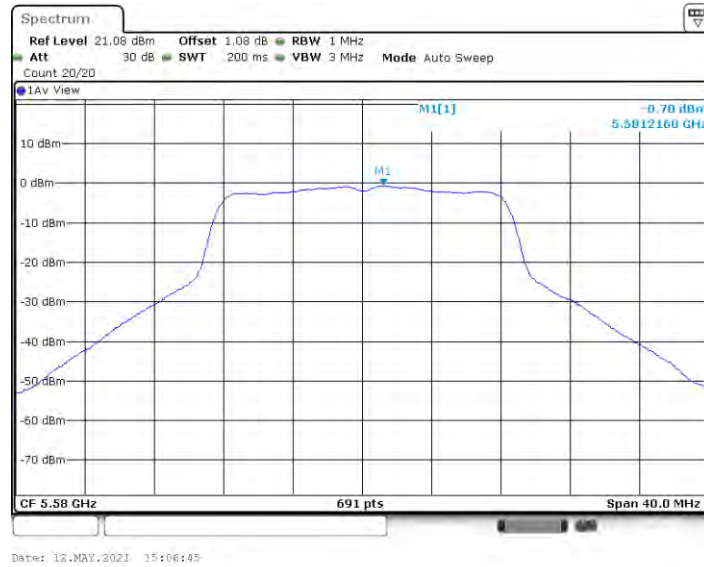


11A_Ant1_5580





11A_Ant2_5580



11A_Ant1_5700



11A_Ant2_5700



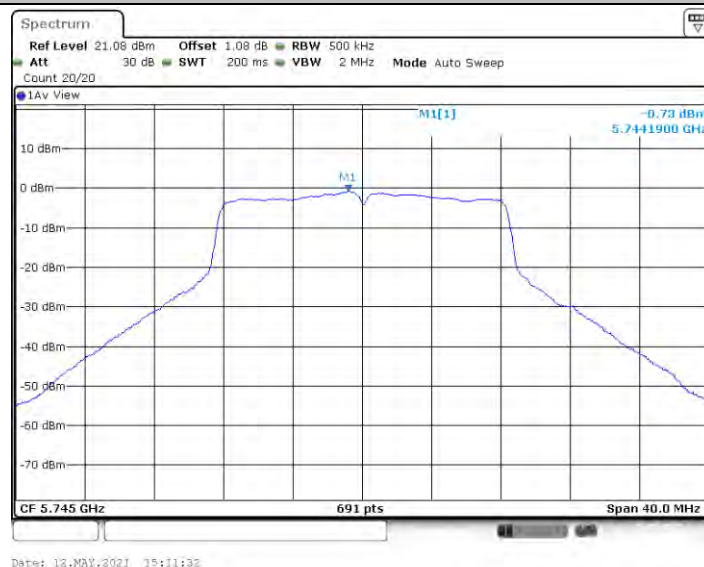
CTC Laboratories, Inc.



11A_Ant1_5745

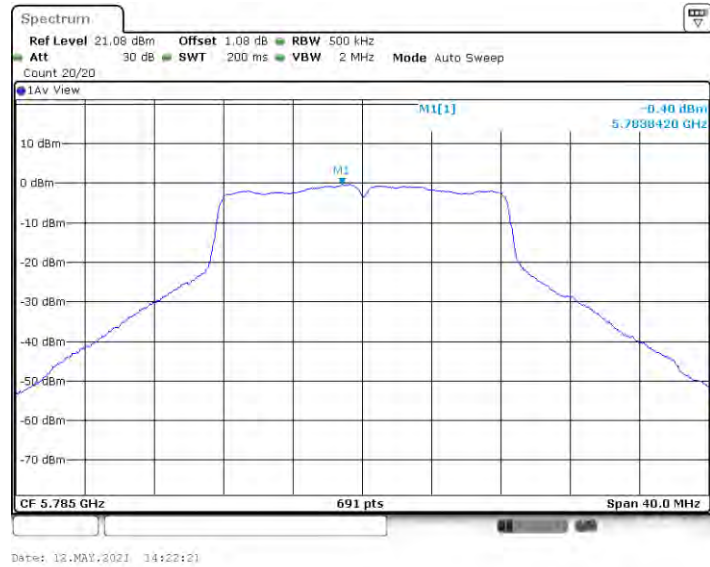


11A_Ant2_5745





11A_Ant1_5785



11A_Ant2_5785



11A_Ant1_5825



11A_Ant2_5825

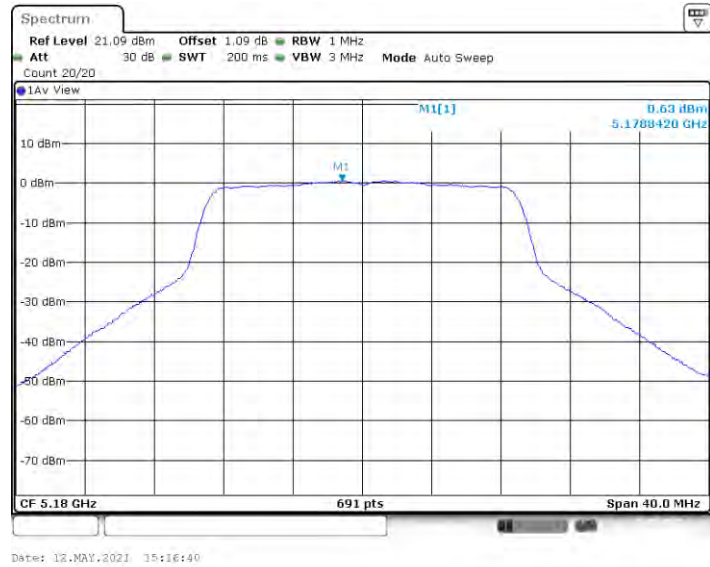


11N20MIMO_Ant1_5180

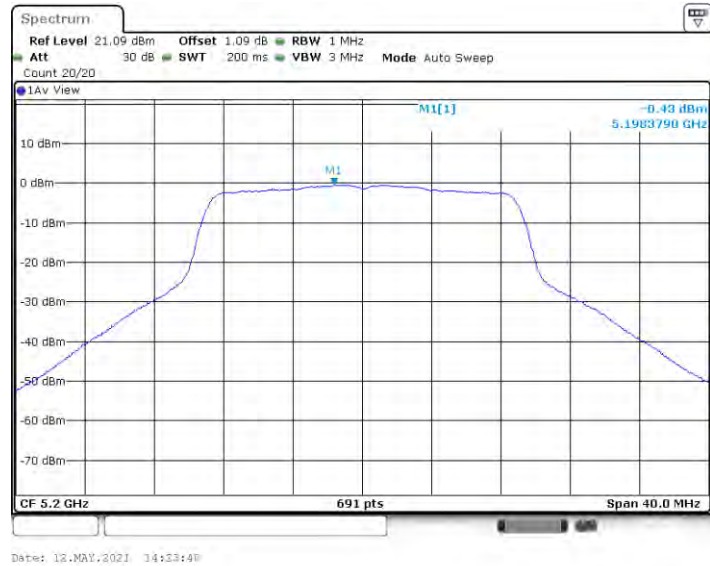




11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



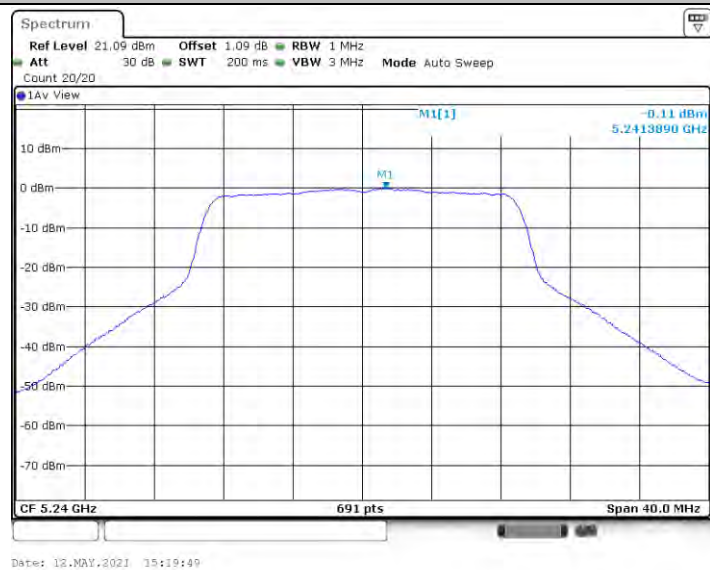
11N20MIMO_Ant2_5200



11N20MIMO_Ant1_5240

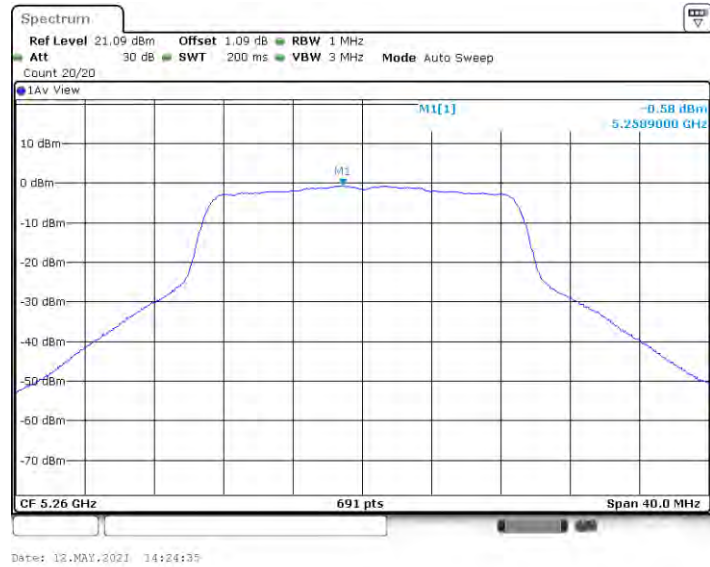


11N20MIMO_Ant2_5240





11N20MIMO_Ant1_5260



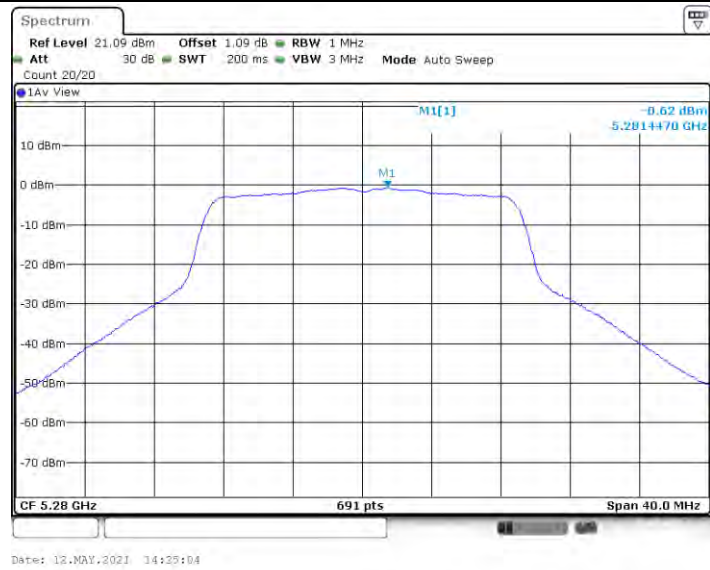
11N20MIMO_Ant2_5260



11N20MIMO_Ant1_5280



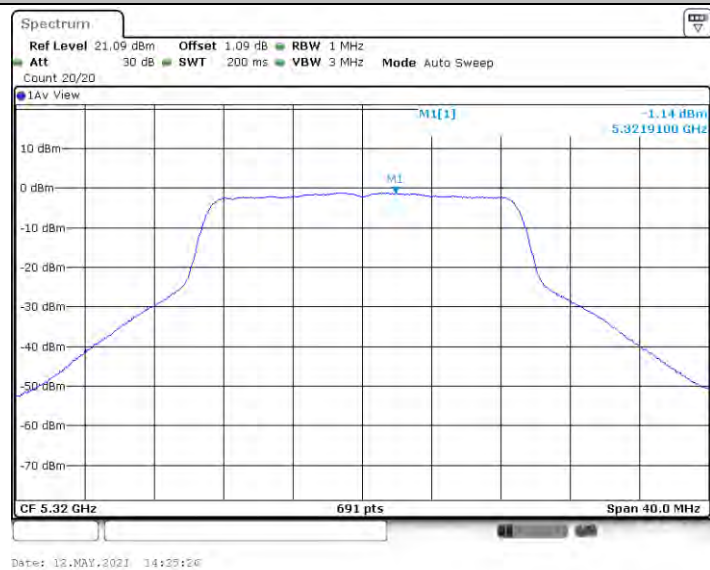
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11N20MIMO_Ant2_5280



11N20MIMO_Ant1_5320





11N20MIMO_Ant2_5320



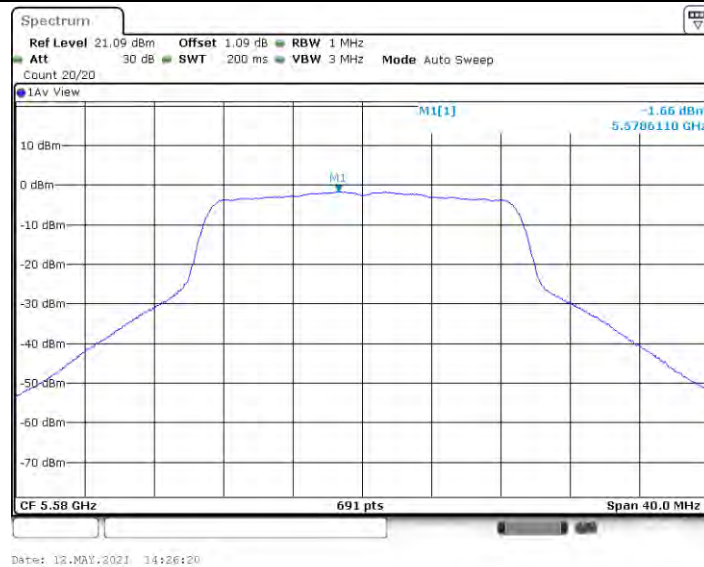
11N20MIMO_Ant1_5500



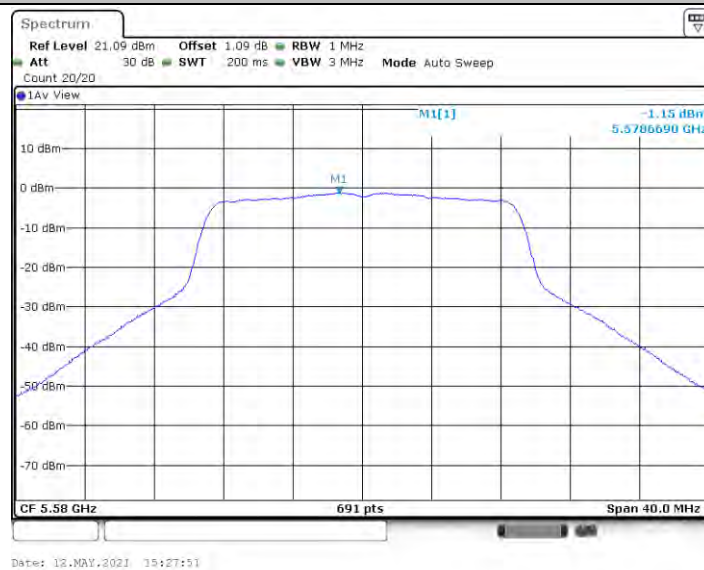
11N20MIMO_Ant2_5500



11N20MIMO_Ant1_5580



11N20MIMO_Ant2_5580

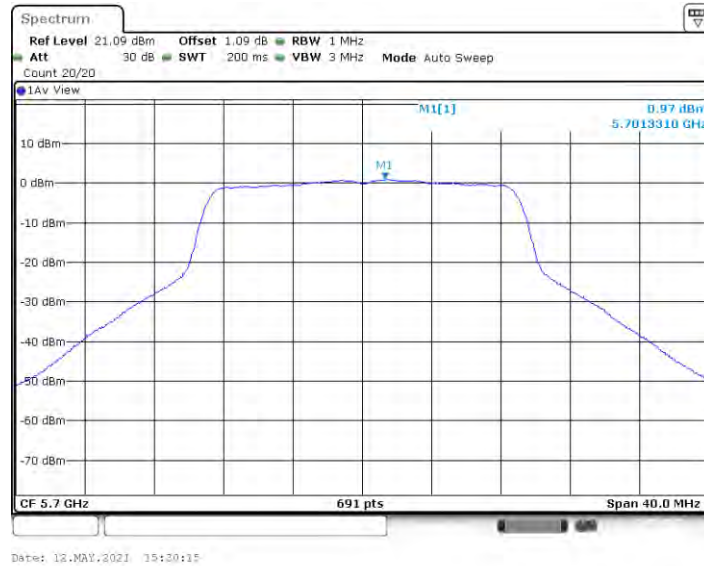




11N20MIMO_Ant1_5700



11N20MIMO_Ant2_5700



11N20MIMO_Ant1_5745



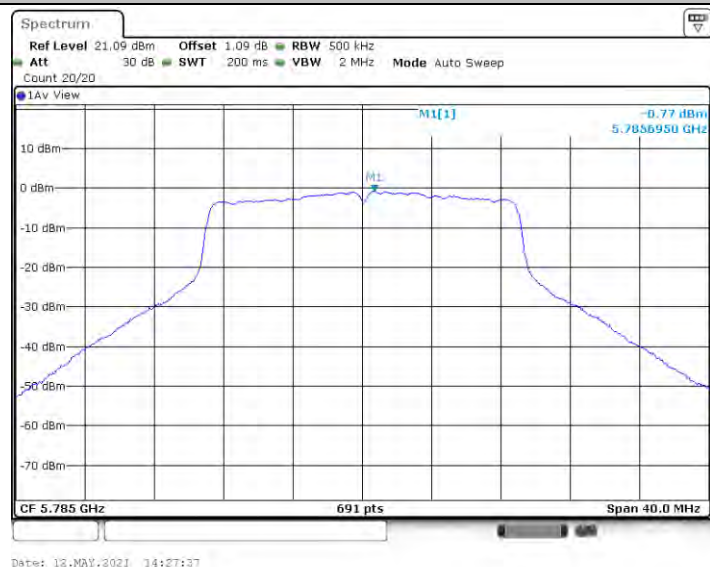
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11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785





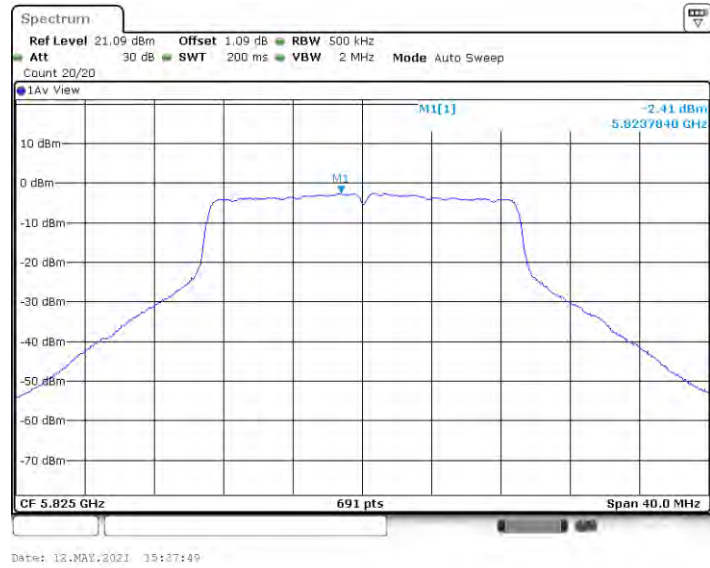
11N20MIMO_Ant2_5785



11N20MIMO_Ant1_5825



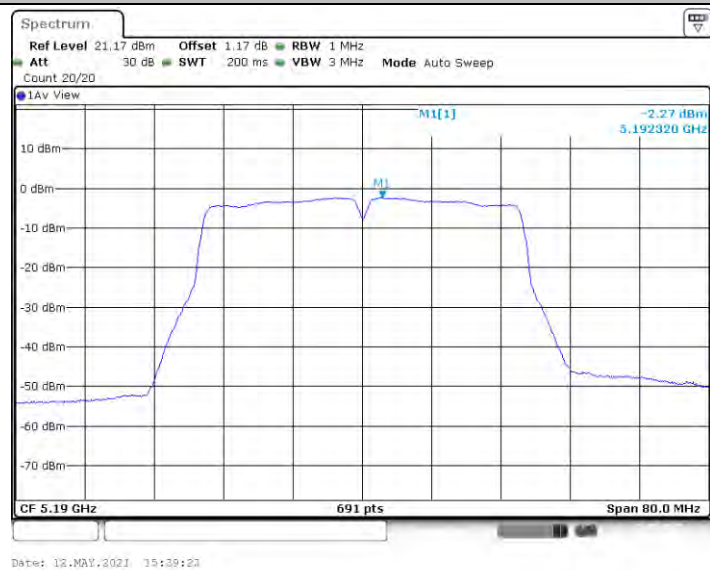
11N20MIMO_Ant2_5825



11N40MIMO_Ant1_5190

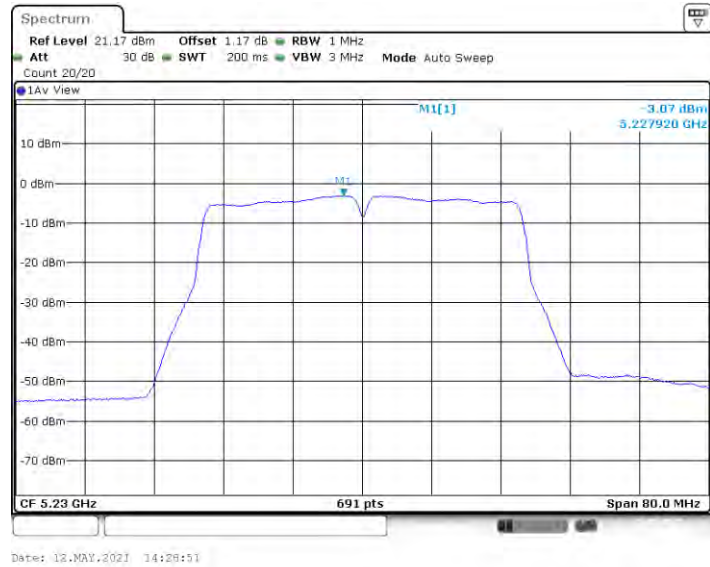


11N40MIMO_Ant2_5190





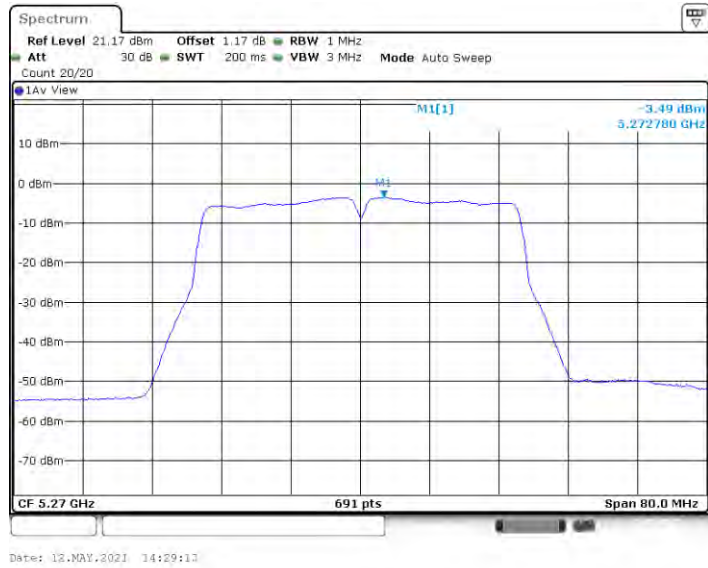
11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230



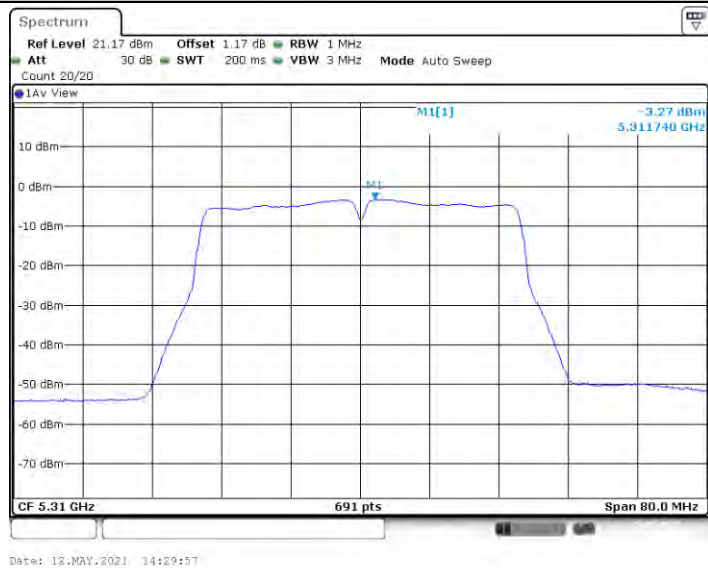
11N40MIMO_Ant1_5270



11N40MIMO_Ant2_5270

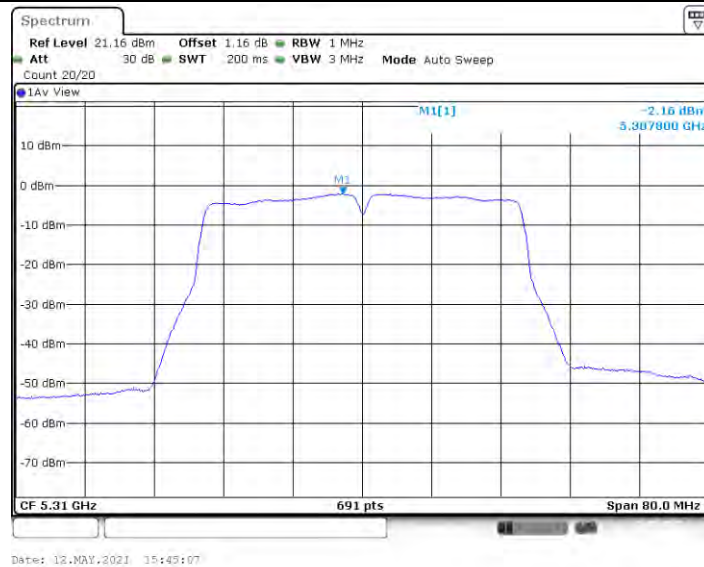


11N40MIMO_Ant1_5310





11N40MIMO_Ant2_5310



11N40MIMO_Ant1_5510



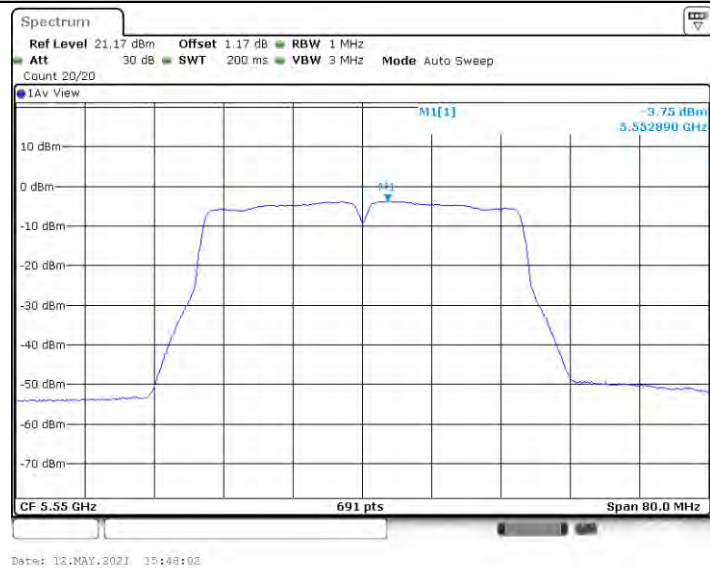
11N40MIMO_Ant2_5510



11N40MIMO_Ant1_5550

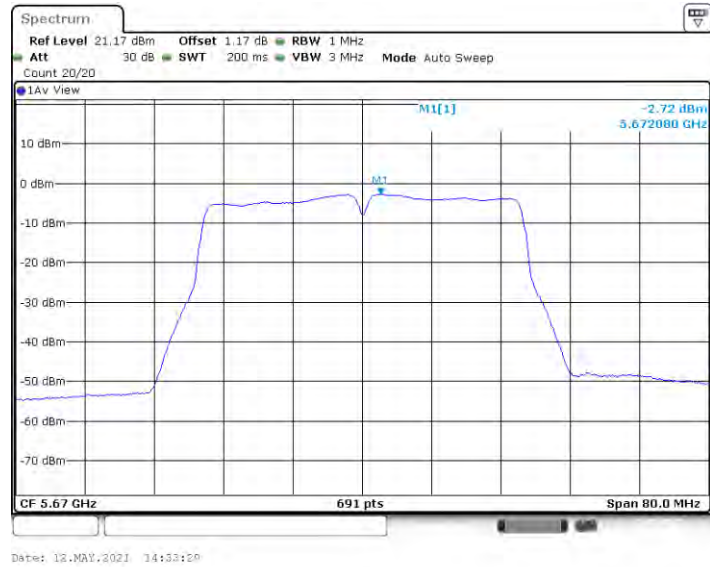


11N40MIMO_Ant2_5550





11N40MIMO_Ant1_5670



11N40MIMO_Ant2_5670



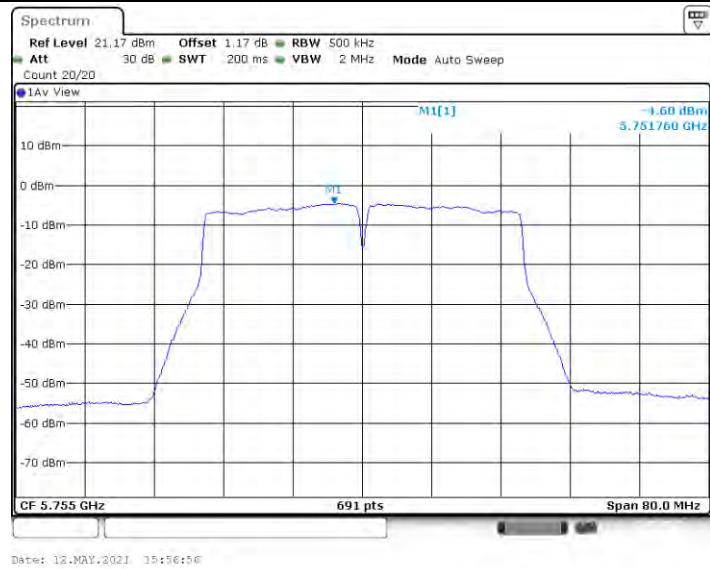
11N40MIMO_Ant1_5755



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11N40MIMO_Ant2_5755

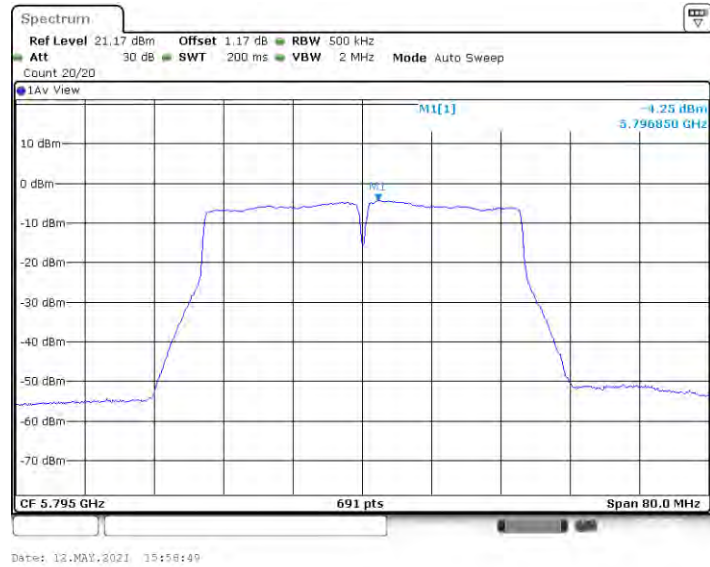


11N40MIMO_Ant1_5795

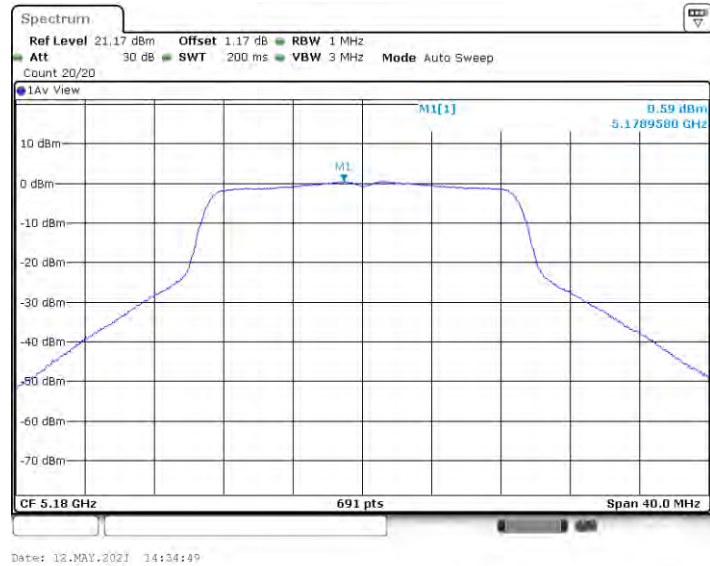




11N40MIMO_Ant2_5795



11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180



11AC20MIMO_Ant1_5200



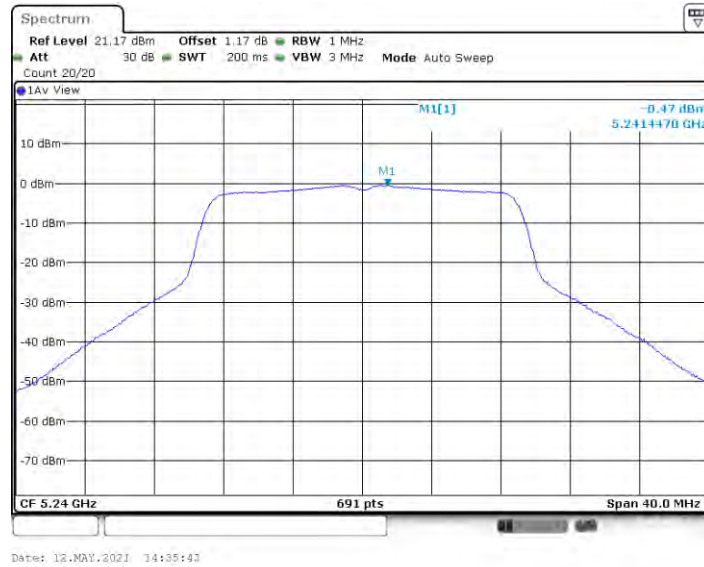
11AC20MIMO_Ant2_5200





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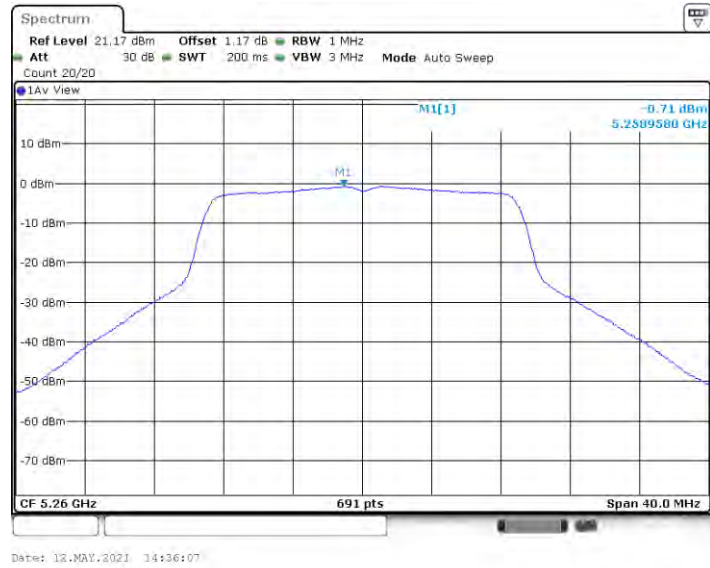
11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240



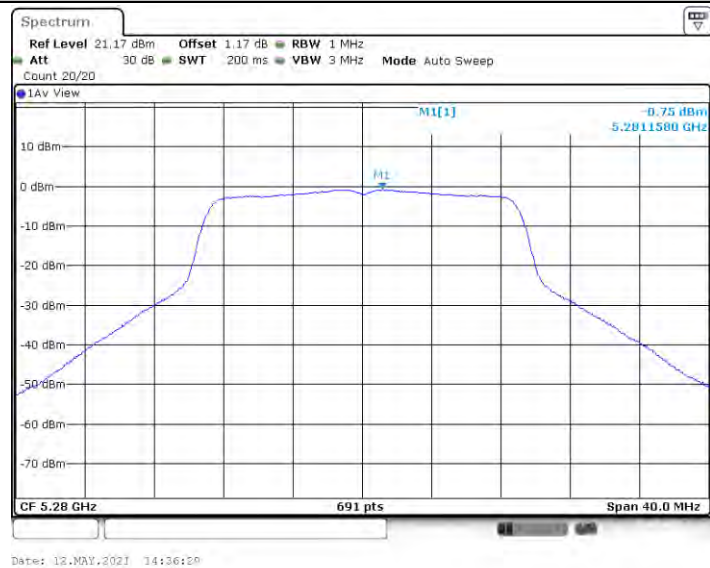
11AC20MIMO_Ant1_5260



11AC20MIMO_Ant2_5260



11AC20MIMO_Ant1_5280





11AC20MIMO_Ant2_5280



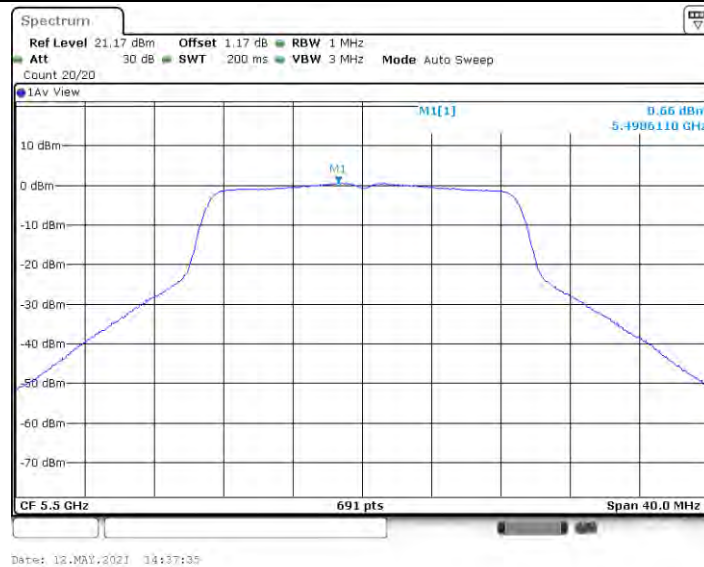
11AC20MIMO_Ant1_5320



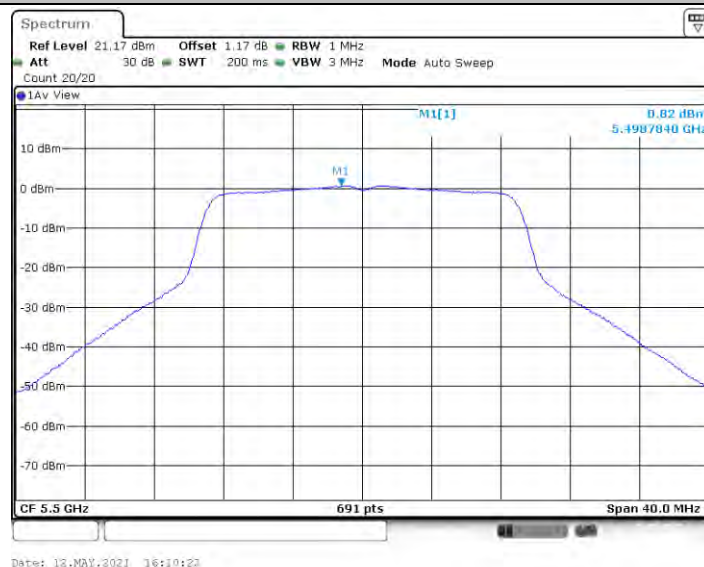
11AC20MIMO_Ant2_5320



11AC20MIMO_Ant1_5500

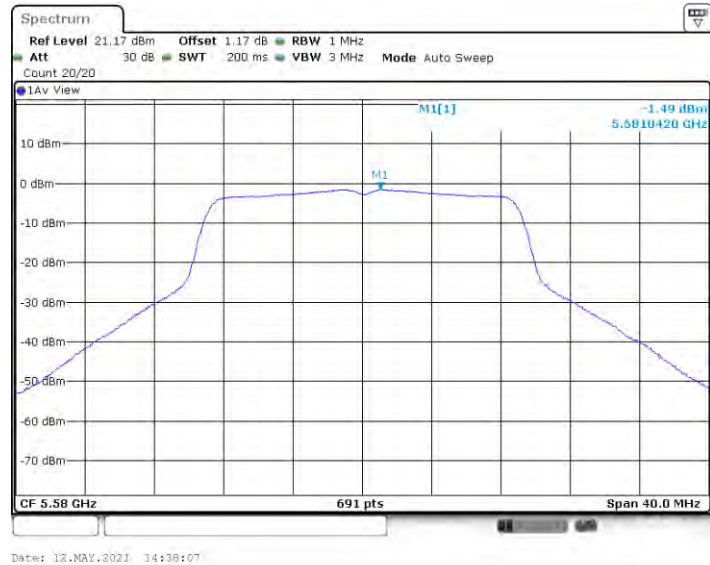


11AC20MIMO_Ant2_5500





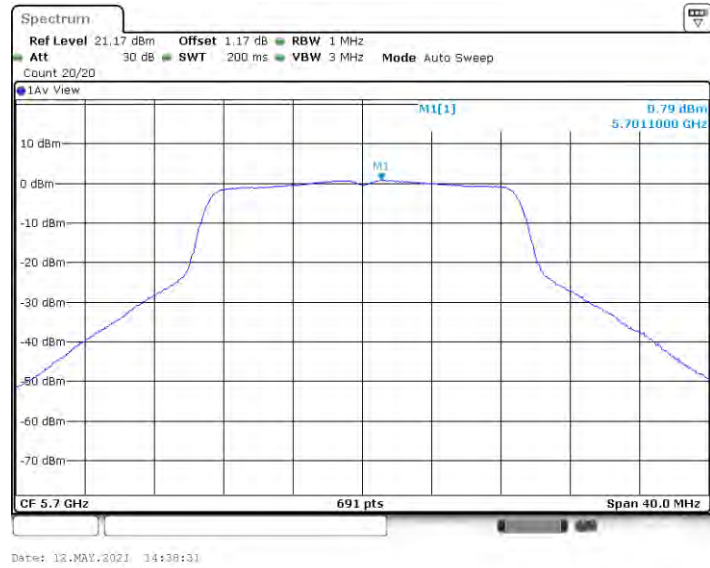
11AC20MIMO_Ant1_5580



11AC20MIMO_Ant2_5580



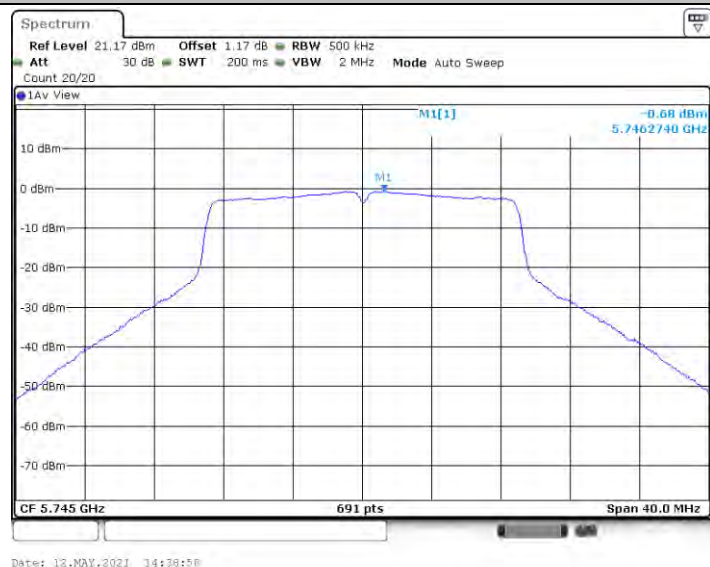
11AC20MIMO_Ant1_5700



11AC20MIMO_Ant2_5700



11AC20MIMO_Ant1_5745





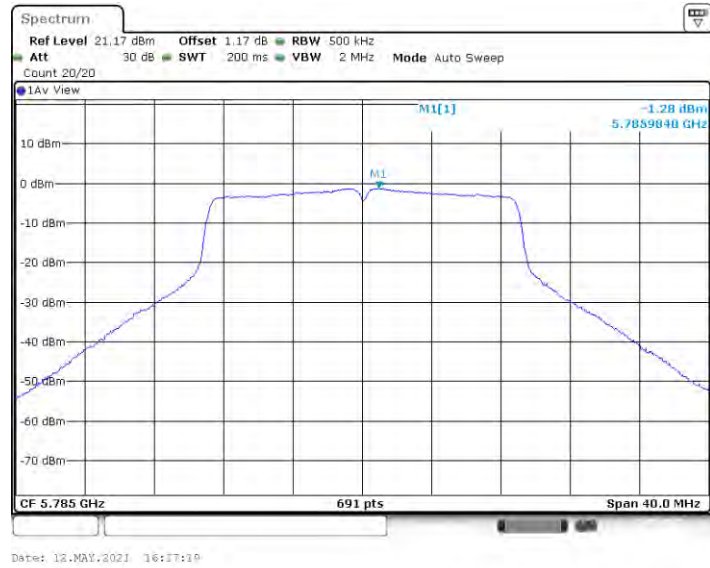
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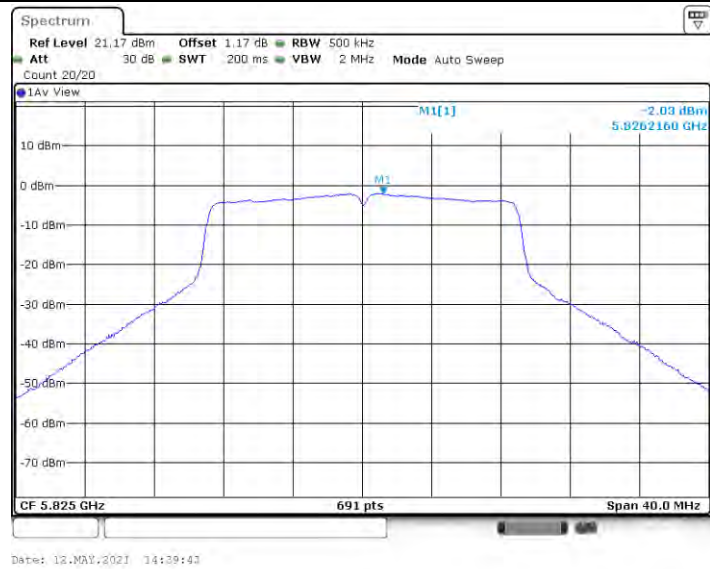
11AC20MIMO_Ant1_5785



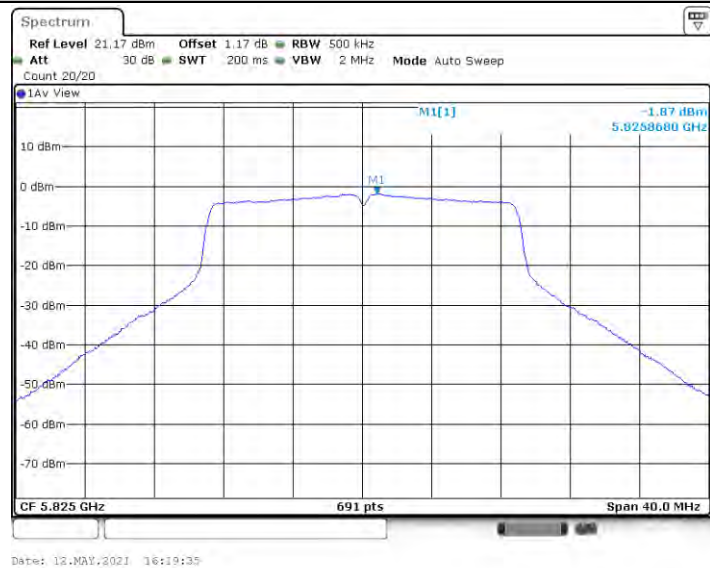
11AC20MIMO_Ant2_5785



11AC20MIMO_Ant1_5825



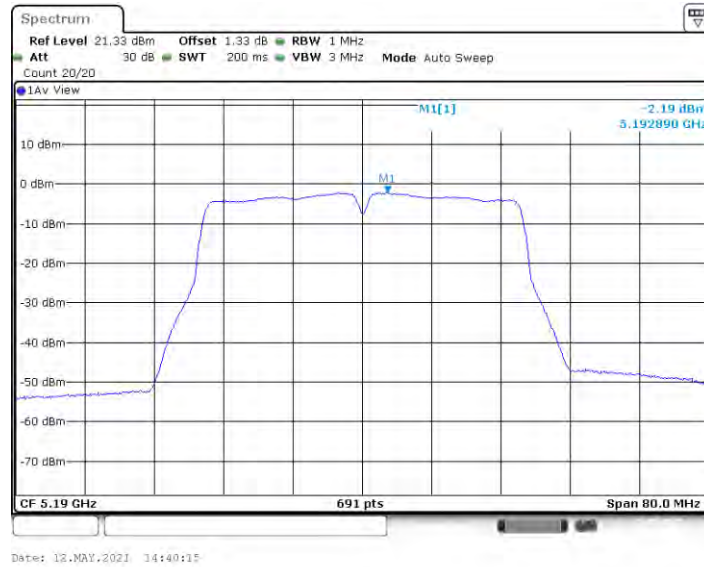
11AC20MIMO_Ant2_5825



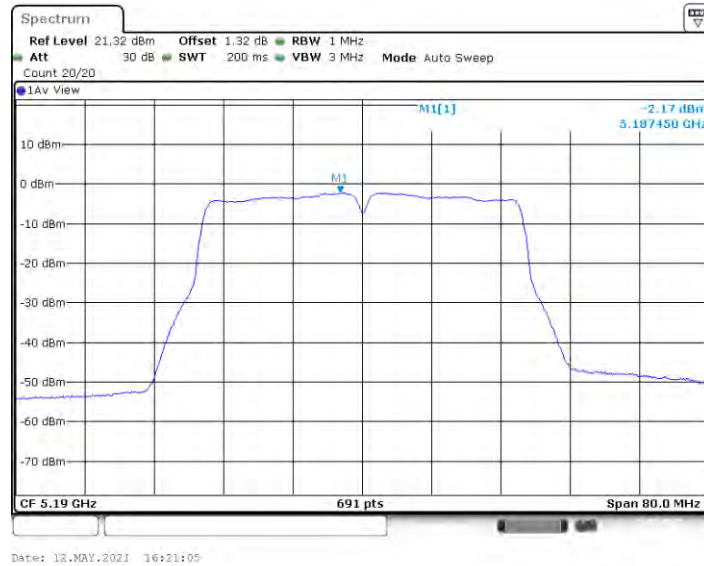


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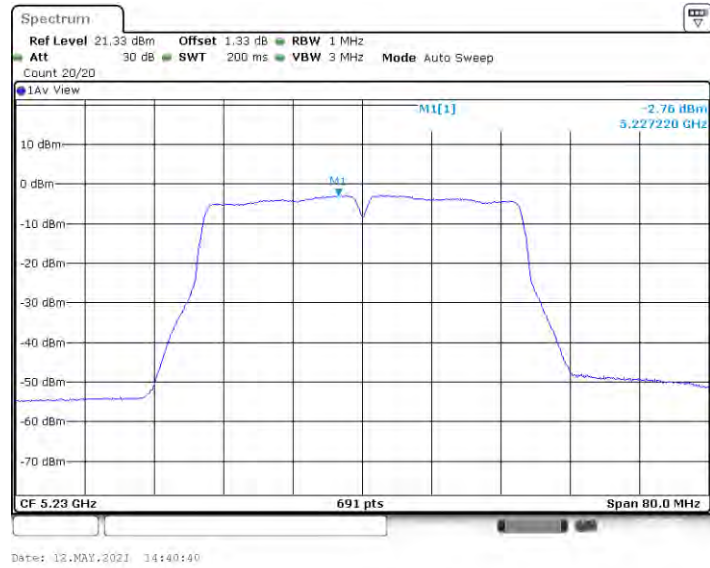
11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190



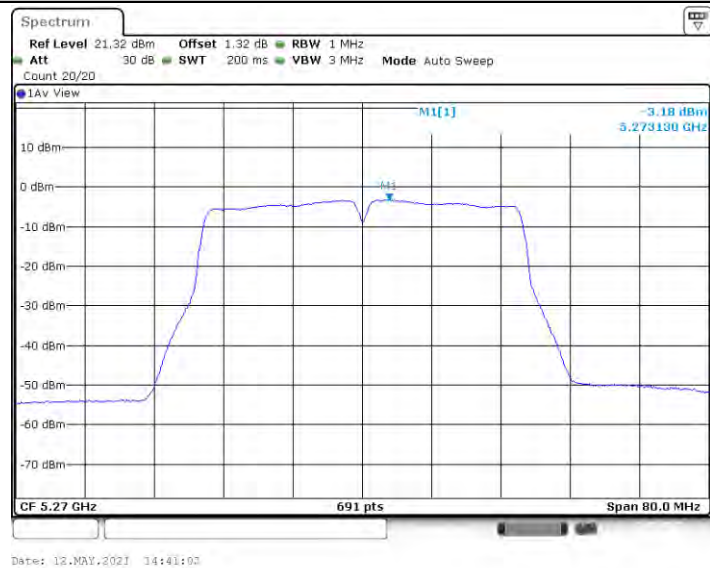
11AC40MIMO_Ant1_5230



11AC40MIMO_Ant2_5230

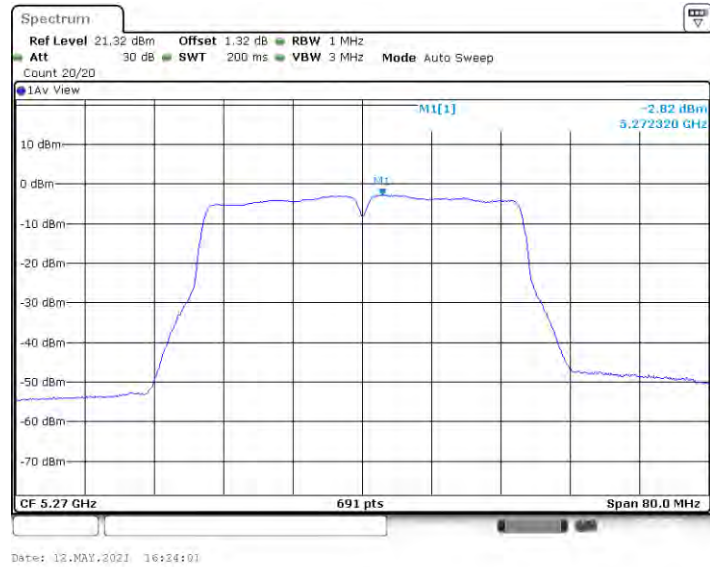


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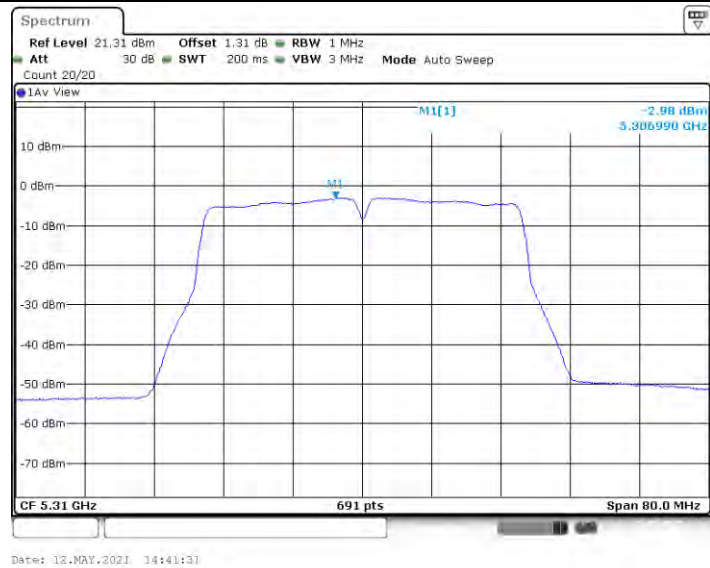




11AC40MIMO_Ant2_5270



11AC40MIMO_Ant1_5310



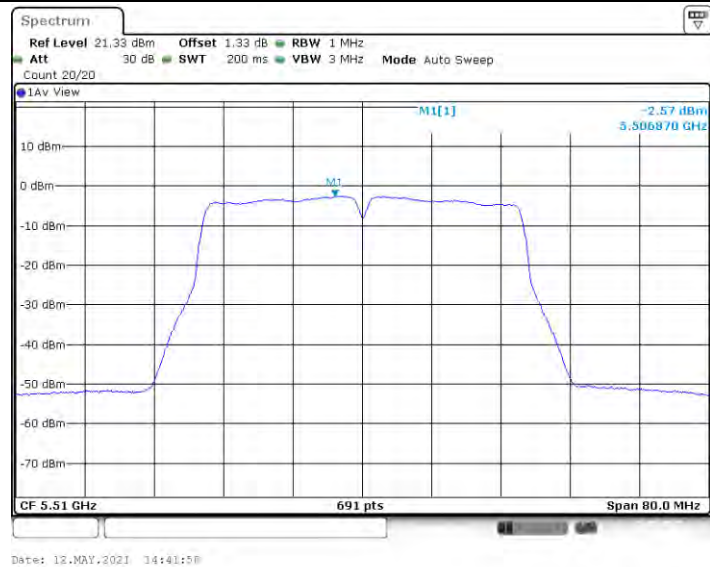
11AC40MIMO_Ant2_5310



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11AC40MIMO_Ant1_5510

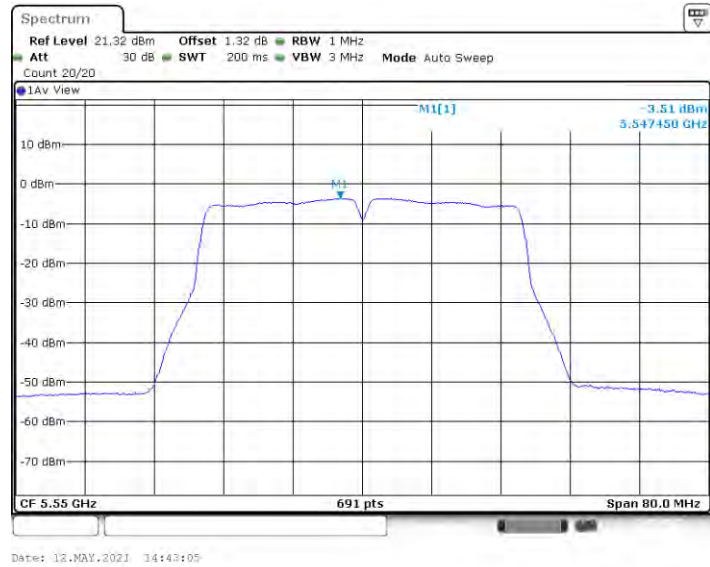


11AC40MIMO_Ant2_5510

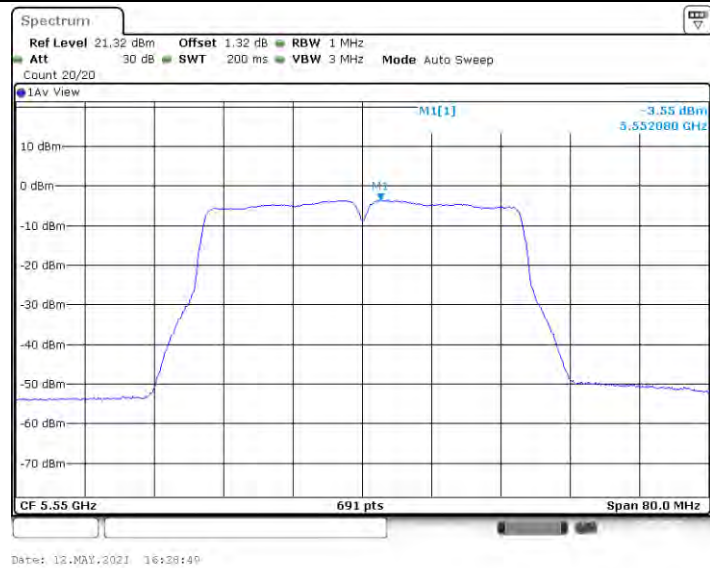




11AC40MIMO_Ant1_5550



11AC40MIMO_Ant2_5550



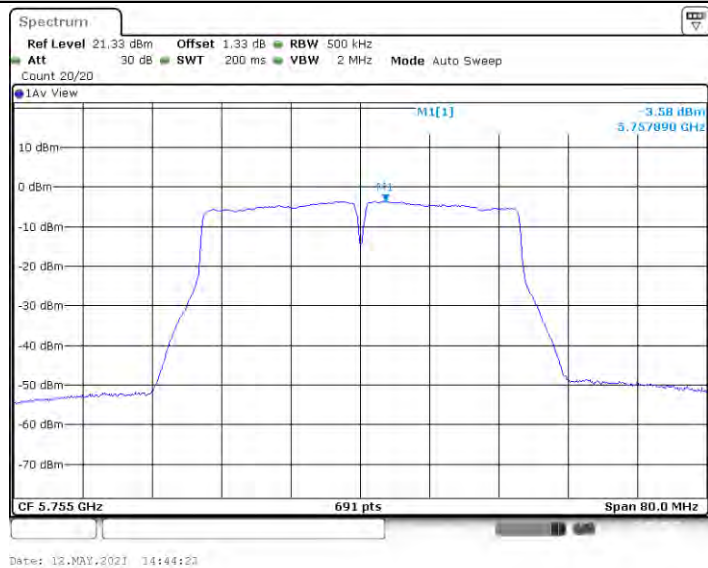
11AC40MIMO_Ant1_5670



11AC40MIMO_Ant2_5670



11AC40MIMO_Ant1_5755





11AC40MIMO_Ant2_5755



11AC40MIMO_Ant1_5795



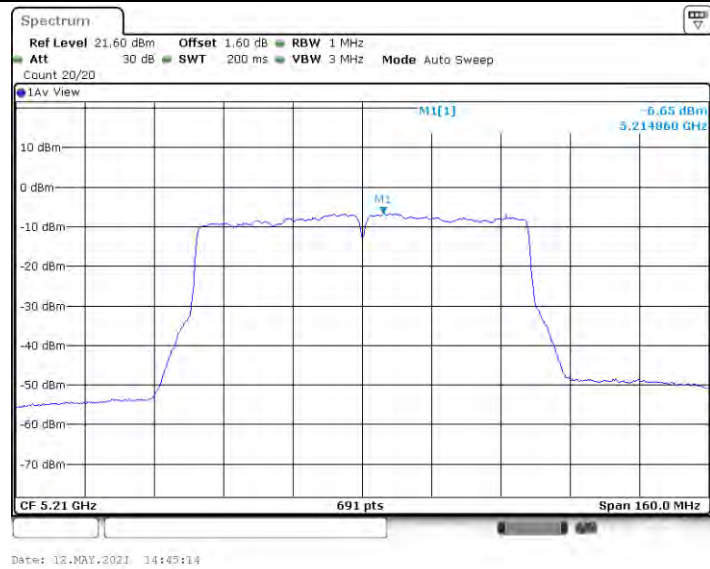
11AC40MIMO_Ant2_5795



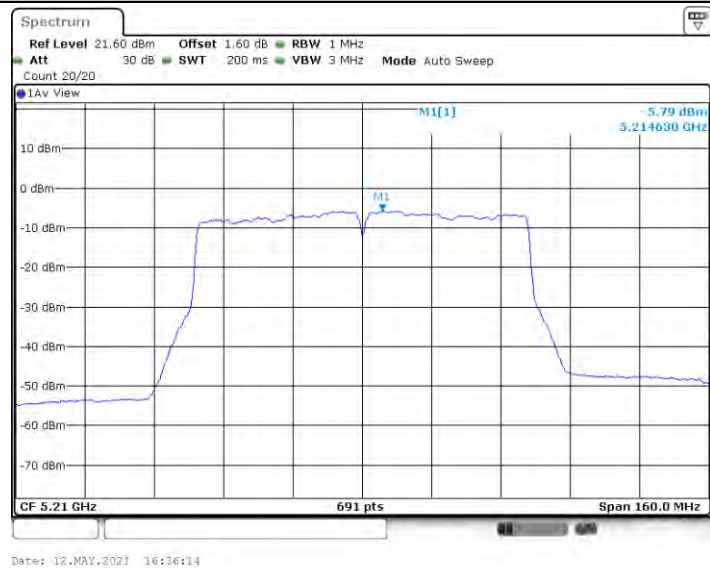
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11AC80MIMO_Ant1_5210

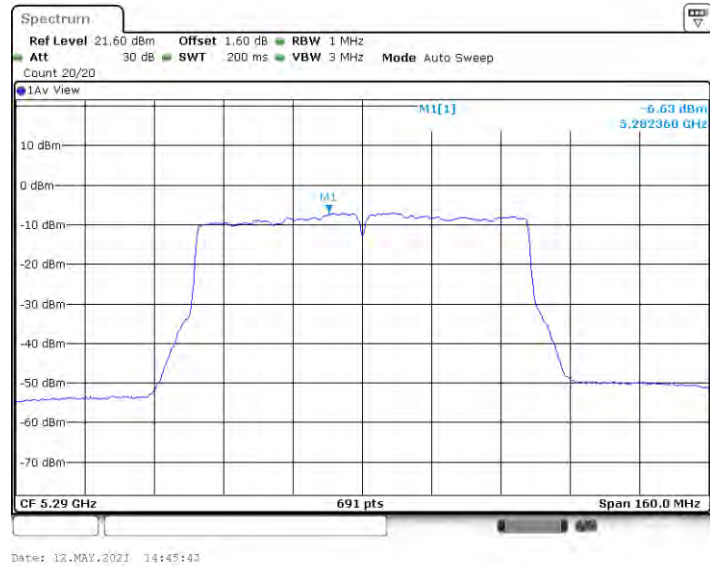


11AC80MIMO_Ant2_5210

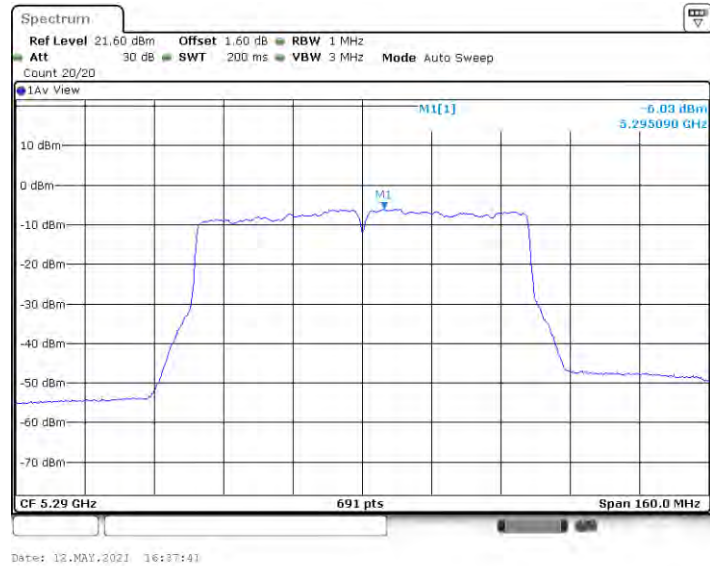




11AC80MIMO_Ant1_5290



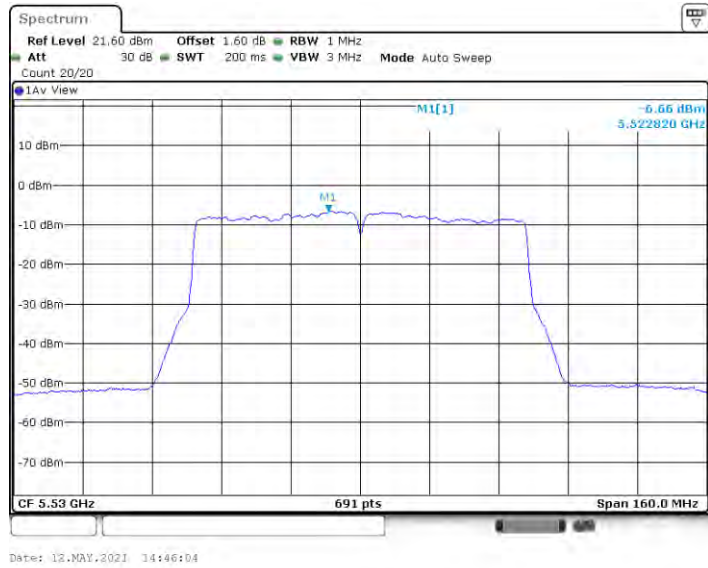
11AC80MIMO_Ant2_5290



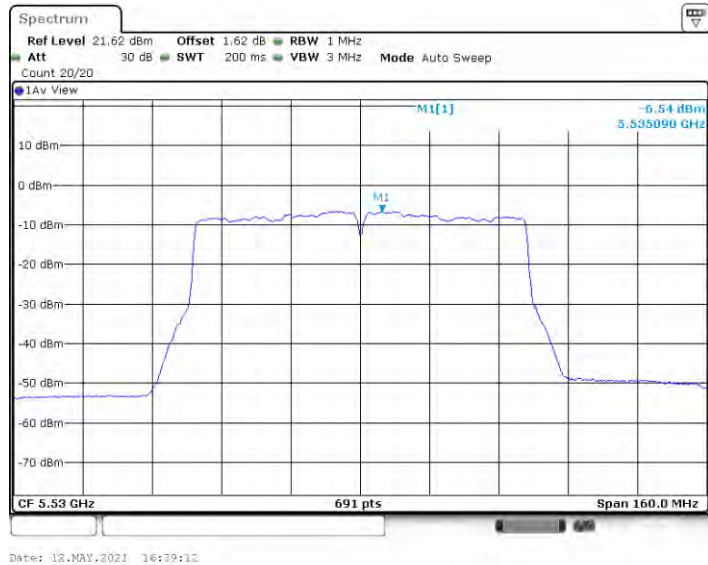
11AC80MIMO_Ant1_5530



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11AC80MIMO_Ant2_5530

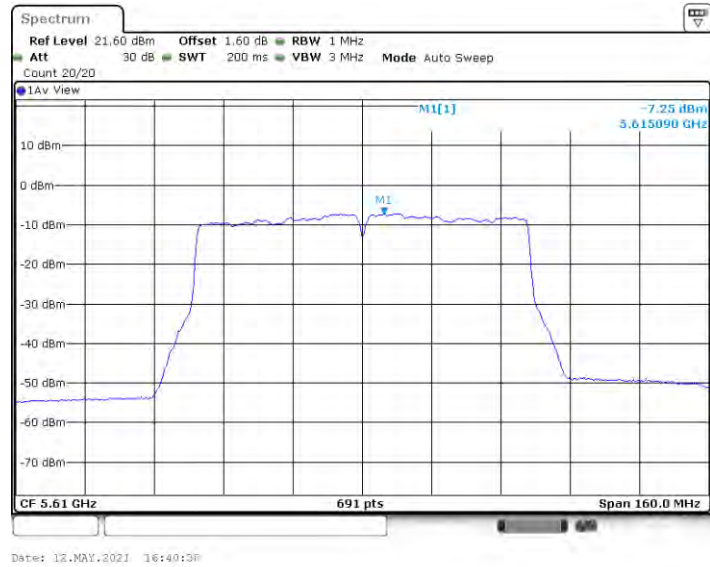


11AC80MIMO_Ant1_5610





11AC80MIMO_Ant2_5610



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



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Date: 12.MAY.2021 16:42:41



Appendix D: Frequency Stability

Test Result

Voltage								
Test Mode	Antenna	Freq (MHz)	Voltage [Vdc]	Temp (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20M IMO	Ant2	5180	NV	NT	59900	11.563707	20	PASS
			LV	NT	61900	11.949807	20	PASS
			HV	NT	61900	11.949807	20	PASS
		5200	NV	NT	68900	13.250000	20	PASS
			LV	NT	68900	13.250000	20	PASS
			HV	NT	68900	13.250000	20	PASS
		5240	NV	NT	70900	13.530534	20	PASS
			LV	NT	70900	13.530534	20	PASS
			HV	NT	70900	13.530534	20	PASS
		5260	NV	NT	71900	13.669202	20	PASS
			LV	NT	72900	13.859316	20	PASS
			HV	NT	71900	13.669202	20	PASS
		5280	NV	NT	70900	13.428030	20	PASS
			LV	NT	71900	13.617424	20	PASS
			HV	NT	70900	13.428030	20	PASS
		5320	NV	NT	73900	13.890977	20	PASS
			LV	NT	72900	13.703008	20	PASS
			HV	NT	71900	13.515038	20	PASS
		5500	NV	NT	73900	13.436364	20	PASS
			LV	NT	74900	13.618182	20	PASS
			HV	NT	73900	13.436364	20	PASS
		5580	NV	NT	76900	13.781362	20	PASS
			LV	NT	75900	13.602151	20	PASS
			HV	NT	75900	13.602151	20	PASS
		5700	NV	NT	78900	13.842105	20	PASS
			LV	NT	77900	13.666667	20	PASS
			HV	NT	77900	13.666667	20	PASS
		5745	NV	NT	77900	13.559617	20	PASS
			LV	NT	77900	13.559617	20	PASS
			HV	NT	76900	13.385553	20	PASS
		5785	NV	NT	94900	16.404494	20	PASS
			LV	NT	91900	15.885912	20	PASS
			HV	NT	90900	15.713051	20	PASS
		5825	NV	NT	87900	15.090129	20	PASS
			LV	NT	87900	15.090129	20	PASS
			HV	NT	87900	15.090129	20	PASS



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11AC40M IMO	Ant2	5190	NV	NT	77900	15.009634	20	PASS
			LV	NT	77900	15.009634	20	PASS
			HV	NT	76900	14.816956	20	PASS
		5230	NV	NT	78900	15.086042	20	PASS
			LV	NT	79900	15.277247	20	PASS
			HV	NT	79900	15.277247	20	PASS
		5270	NV	NT	79900	15.161290	20	PASS
			LV	NT	79900	15.161290	20	PASS
			HV	NT	78900	14.971537	20	PASS
		5310	NV	NT	84900	15.988701	20	PASS
			LV	NT	83900	15.800377	20	PASS
			HV	NT	81900	15.423729	20	PASS
		5510	NV	NT	84900	15.408348	20	PASS
			LV	NT	84900	15.408348	20	PASS
			HV	NT	83900	15.226860	20	PASS
		5550	NV	NT	83900	15.117117	20	PASS
			LV	NT	83900	15.117117	20	PASS
			HV	NT	84900	15.297297	20	PASS
		5670	NV	NT	86900	15.326279	20	PASS
			LV	NT	84900	14.973545	20	PASS
			HV	NT	85900	15.149912	20	PASS
		5755	NV	NT	87900	15.273675	20	PASS
			LV	NT	87900	15.273675	20	PASS
			HV	NT	88900	15.447437	20	PASS
		5795	NV	NT	87900	15.168248	20	PASS
			LV	NT	86900	14.995686	20	PASS
			HV	NT	86900	14.995686	20	PASS
11AC80M IMO	Ant2	5210	NV	NT	78900	15.143954	20	PASS
			LV	NT	78900	15.143954	20	PASS
			HV	NT	79900	15.335893	20	PASS
		5290	NV	NT	80900	15.293006	20	PASS
			LV	NT	78900	14.914934	20	PASS
			HV	NT	78900	14.914934	20	PASS
		5530	NV	NT	83900	15.171790	20	PASS
			LV	NT	83900	15.171790	20	PASS
			HV	NT	83900	15.171790	20	PASS
		5610	NV	NT	76900	13.707665	20	PASS
			LV	NT	77900	13.885918	20	PASS
			HV	NT	76900	13.707665	20	PASS
		5775	NV	NT	77900	13.489177	20	PASS
			LV	NT	78900	13.662338	20	PASS
			HV	NT	78900	13.662338	20	PASS



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Temperature								
Test Mode	Antenna	Freq (MHz)	Voltage [Vdc]	Temp (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20M IMO	Ant2	5180	NV	-25	63900	12.335907	20	PASS
			NV	-20	65900	12.722008	20	PASS
			NV	-10	64900	12.528958	20	PASS
			NV	0	66900	12.915058	20	PASS
			NV	10	66900	12.915058	20	PASS
			NV	20	67900	13.108108	20	PASS
			NV	30	67900	13.108108	20	PASS
			NV	40	67900	13.108108	20	PASS
			NV	45	68900	13.301158	20	PASS
		5200	NV	-25	68900	13.250000	20	PASS
			NV	-20	69900	13.442308	20	PASS
			NV	-10	69900	13.442308	20	PASS
			NV	0	69900	13.442308	20	PASS
			NV	10	69900	13.442308	20	PASS
			NV	20	69900	13.442308	20	PASS
			NV	30	69900	13.442308	20	PASS
			NV	40	69900	13.442308	20	PASS
			NV	45	69900	13.442308	20	PASS
		5240	NV	-25	70900	13.530534	20	PASS
			NV	-20	70900	13.530534	20	PASS
			NV	-10	71900	13.721374	20	PASS
			NV	0	71900	13.721374	20	PASS
			NV	10	71900	13.721374	20	PASS
			NV	20	71900	13.721374	20	PASS
			NV	30	71900	13.721374	20	PASS
			NV	40	71900	13.721374	20	PASS
			NV	45	71900	13.721374	20	PASS
		5260	NV	-25	71900	13.669202	20	PASS
			NV	-20	72900	13.859316	20	PASS
			NV	-10	72900	13.859316	20	PASS
			NV	0	70900	13.479087	20	PASS
			NV	10	71900	13.669202	20	PASS
			NV	20	71900	13.669202	20	PASS
			NV	30	70900	13.479087	20	PASS
			NV	40	71900	13.669202	20	PASS
			NV	45	70900	13.479087	20	PASS
		5280	NV	-25	70900	13.428030	20	PASS
			NV	-20	71900	13.617424	20	PASS
			NV	-10	70900	13.428030	20	PASS
			NV	0	71900	13.617424	20	PASS



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			NV	10	70900	13.428030	20	PASS
			NV	20	71900	13.617424	20	PASS
			NV	30	71900	13.617424	20	PASS
			NV	40	71900	13.617424	20	PASS
			NV	45	71900	13.617424	20	PASS
		5320	NV	-25	71900	13.515038	20	PASS
			NV	-20	70900	13.327068	20	PASS
			NV	-10	70900	13.327068	20	PASS
			NV	0	71900	13.515038	20	PASS
			NV	10	69900	13.139098	20	PASS
			NV	20	69900	13.139098	20	PASS
			NV	30	70900	13.327068	20	PASS
			NV	40	70900	13.327068	20	PASS
			NV	45	68900	12.951128	20	PASS
		5500	NV	-25	73900	13.436364	20	PASS
			NV	-20	73900	13.436364	20	PASS
			NV	-10	73900	13.436364	20	PASS
			NV	0	75900	13.800000	20	PASS
			NV	10	74900	13.618182	20	PASS
			NV	20	74900	13.618182	20	PASS
			NV	30	74900	13.618182	20	PASS
			NV	40	74900	13.618182	20	PASS
			NV	45	74900	13.618182	20	PASS
		5580	NV	-25	75900	13.602151	20	PASS
			NV	-20	75900	13.602151	20	PASS
			NV	-10	76900	13.781362	20	PASS
			NV	0	76900	13.781362	20	PASS
			NV	10	76900	13.781362	20	PASS
			NV	20	75900	13.602151	20	PASS
			NV	30	75900	13.602151	20	PASS
			NV	40	76900	13.781362	20	PASS
			NV	45	76900	13.781362	20	PASS
		5700	NV	-25	77900	13.666667	20	PASS
			NV	-20	78900	13.842105	20	PASS
			NV	-10	77900	13.666667	20	PASS
			NV	0	77900	13.666667	20	PASS
			NV	10	77900	13.666667	20	PASS
			NV	20	77900	13.666667	20	PASS
			NV	30	76900	13.491228	20	PASS
			NV	40	77900	13.666667	20	PASS
			NV	45	77900	13.666667	20	PASS
		5745	NV	-25	76900	13.385553	20	PASS
			NV	-20	77900	13.559617	20	PASS



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			NV	-10	76900	13.385553	20	PASS
			NV	0	76900	13.385553	20	PASS
			NV	10	77900	13.559617	20	PASS
			NV	20	77900	13.559617	20	PASS
			NV	30	76900	13.385553	20	PASS
			NV	40	77900	13.559617	20	PASS
			NV	45	77900	13.559617	20	PASS
		5785	NV	-25	90900	15.713051	20	PASS
			NV	-20	89900	15.540190	20	PASS
			NV	-10	88900	15.367329	20	PASS
			NV	0	88900	15.367329	20	PASS
			NV	10	88900	15.367329	20	PASS
			NV	20	86900	15.021608	20	PASS
			NV	30	86900	15.021608	20	PASS
			NV	40	86900	15.021608	20	PASS
			NV	45	86900	15.021608	20	PASS
		5825	NV	-25	86900	14.918455	20	PASS
			NV	-20	86900	14.918455	20	PASS
			NV	-10	87900	15.090129	20	PASS
			NV	0	85900	14.746781	20	PASS
			NV	10	87900	15.090129	20	PASS
			NV	20	87900	15.090129	20	PASS
			NV	30	86900	14.918455	20	PASS
NV	40		87900	15.090129	20	PASS		
NV	45		87900	15.090129	20	PASS		
11AC40M IMO	Ant2	5190	NV	-25	77900	15.009634	20	PASS
			NV	-20	76900	14.816956	20	PASS
			NV	-10	77900	15.009634	20	PASS
			NV	0	77900	15.009634	20	PASS
			NV	10	77900	15.009634	20	PASS
			NV	20	77900	15.009634	20	PASS
			NV	30	77900	15.009634	20	PASS
			NV	40	77900	15.009634	20	PASS
			NV	45	77900	15.009634	20	PASS
		5230	NV	-25	78900	15.086042	20	PASS
			NV	-20	77900	14.894837	20	PASS
			NV	-10	78900	15.086042	20	PASS
			NV	0	78900	15.086042	20	PASS
			NV	10	78900	15.086042	20	PASS
			NV	20	78900	15.086042	20	PASS
			NV	30	79900	15.277247	20	PASS
			NV	40	79900	15.277247	20	PASS
NV	45	78900	15.086042	20	PASS			



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		5270	NV	-25	79900	15.161290	20	PASS
			NV	-20	78900	14.971537	20	PASS
			NV	-10	78900	14.971537	20	PASS
			NV	0	78900	14.971537	20	PASS
			NV	10	79900	15.161290	20	PASS
			NV	20	78900	14.971537	20	PASS
			NV	30	78900	14.971537	20	PASS
			NV	40	78900	14.971537	20	PASS
			NV	45	78900	14.971537	20	PASS
		5310	NV	-25	81900	15.423729	20	PASS
			NV	-20	81900	15.423729	20	PASS
			NV	-10	80900	15.235405	20	PASS
			NV	0	80900	15.235405	20	PASS
			NV	10	80900	15.235405	20	PASS
			NV	20	80900	15.235405	20	PASS
			NV	30	79900	15.047081	20	PASS
			NV	40	80900	15.235405	20	PASS
			NV	45	80900	15.235405	20	PASS
		5510	NV	-25	82900	15.045372	20	PASS
			NV	-20	82900	15.045372	20	PASS
			NV	-10	82900	15.045372	20	PASS
			NV	0	82900	15.045372	20	PASS
			NV	10	83900	15.226860	20	PASS
			NV	20	82900	15.045372	20	PASS
			NV	30	82900	15.045372	20	PASS
			NV	40	82900	15.045372	20	PASS
			NV	45	81900	14.863884	20	PASS
		5550	NV	-25	83900	15.117117	20	PASS
			NV	-20	85900	15.477477	20	PASS
			NV	-10	84900	15.297297	20	PASS
			NV	0	84900	15.297297	20	PASS
			NV	10	84900	15.297297	20	PASS
			NV	20	84900	15.297297	20	PASS
			NV	30	84900	15.297297	20	PASS
			NV	40	83900	15.117117	20	PASS
			NV	45	84900	15.297297	20	PASS
		5670	NV	-25	85900	15.149912	20	PASS
			NV	-20	85900	15.149912	20	PASS
			NV	-10	84900	14.973545	20	PASS
			NV	0	84900	14.973545	20	PASS
			NV	10	85900	15.149912	20	PASS
			NV	20	86900	15.326279	20	PASS
			NV	30	85900	15.149912	20	PASS



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			NV	40	84900	14.973545	20	PASS
			NV	45	84900	14.973545	20	PASS
		5755	NV	-25	89900	15.621199	20	PASS
			NV	-20	89900	15.621199	20	PASS
			NV	-10	88900	15.447437	20	PASS
			NV	0	88900	15.447437	20	PASS
			NV	10	87900	15.273675	20	PASS
			NV	20	87900	15.273675	20	PASS
			NV	30	87900	15.273675	20	PASS
			NV	40	86900	15.099913	20	PASS
			NV	45	87900	15.273675	20	PASS
		5795	NV	-25	87900	15.168248	20	PASS
			NV	-20	87900	15.168248	20	PASS
			NV	-10	87900	15.168248	20	PASS
			NV	0	87900	15.168248	20	PASS
			NV	10	88900	15.340811	20	PASS
			NV	20	88900	15.340811	20	PASS
			NV	30	86900	14.995686	20	PASS
			NV	40	87900	15.168248	20	PASS
			NV	45	86900	14.995686	20	PASS
11AC80M IMO	Ant2	5210	NV	-25	78900	15.143954	20	PASS
			NV	-20	78900	15.143954	20	PASS
			NV	-10	78900	15.143954	20	PASS
			NV	0	78900	15.143954	20	PASS
			NV	10	79900	15.335893	20	PASS
			NV	20	79900	15.335893	20	PASS
			NV	30	78900	15.143954	20	PASS
			NV	40	78900	15.143954	20	PASS
			NV	45	78900	15.143954	20	PASS
		5290	NV	-25	79900	15.103970	20	PASS
			NV	-20	80900	15.293006	20	PASS
			NV	-10	79900	15.103970	20	PASS
			NV	0	79900	15.103970	20	PASS
			NV	10	80900	15.293006	20	PASS
			NV	20	79900	15.103970	20	PASS
			NV	30	79900	15.103970	20	PASS
			NV	40	80900	15.293006	20	PASS
			NV	45	79900	15.103970	20	PASS
		5530	NV	-25	80900	14.629295	20	PASS
			NV	-20	79900	14.448463	20	PASS
			NV	-10	79900	14.448463	20	PASS
			NV	0	77900	14.086799	20	PASS
			NV	10	77900	14.086799	20	PASS



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			NV	20	77900	14.086799	20	PASS
			NV	30	76900	13.905967	20	PASS
			NV	40	76900	13.905967	20	PASS
			NV	45	76900	13.905967	20	PASS
		5610	NV	-25	76900	13.707665	20	PASS
			NV	-20	76900	13.707665	20	PASS
			NV	-10	77900	13.885918	20	PASS
			NV	0	75900	13.529412	20	PASS
			NV	10	76900	13.707665	20	PASS
			NV	20	75900	13.529412	20	PASS
			NV	30	76900	13.707665	20	PASS
			NV	40	76900	13.707665	20	PASS
			NV	45	75900	13.529412	20	PASS
		5775	NV	-25	78900	13.662338	20	PASS
			NV	-20	78900	13.662338	20	PASS
			NV	-10	77900	13.489177	20	PASS
			NV	0	78900	13.662338	20	PASS
			NV	10	77900	13.489177	20	PASS
			NV	20	77900	13.489177	20	PASS
			NV	30	78900	13.662338	20	PASS
			NV	40	78900	13.662338	20	PASS
			NV	45	78900	13.662338	20	PASS