

RF Test Data for 5G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	AC1600 DOCSIS3.0 24x8 EMTA, AC1600 WiFi Cable Modem Router, EMTA, Cable Modem
Test Model:	NE1611B
Sample ID:	20211124-01-1#
Environmental Conditions	
Temperature:	22.8℃
Relative Humidity:	46%
Test Voltage:	DC 12V
Test Engineer:	Huangjianpin
Note: For a more detailed features description, please refer to the report TB-FCC186357. The report only show the worst case data.	

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1. Emission Bandwidth

1.1. Test Result

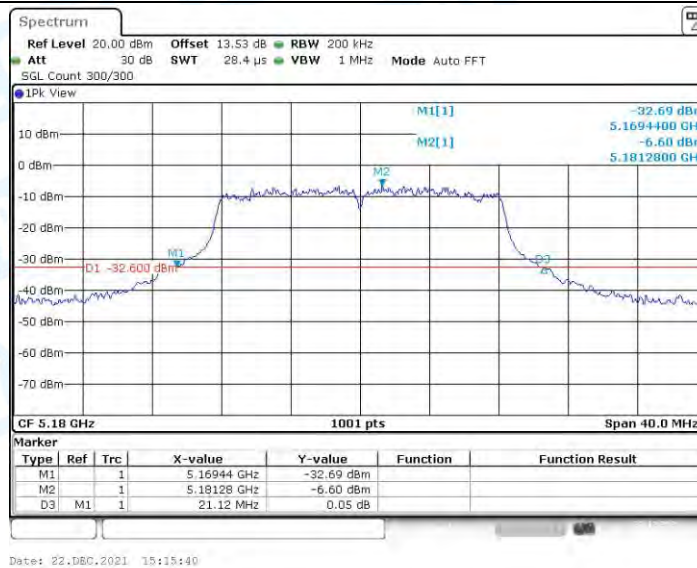
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.12	5169.44	5190.56	---	PASS
	Ant2	5180	20.88	5169.56	5190.44	---	PASS
	Ant3	5180	20.60	5169.76	5190.36	---	PASS
	Ant1	5220	21.52	5209.08	5230.60	---	PASS
	Ant2	5220	21.92	5208.76	5230.68	---	PASS
	Ant3	5220	21.12	5209.00	5230.12	---	PASS
	Ant1	5240	21.24	5229.16	5250.40	---	PASS
	Ant2	5240	21.28	5229.28	5250.56	---	PASS
	Ant3	5240	21.56	5228.88	5250.44	---	PASS
	Ant1	5260	21.68	5248.68	5270.36	---	PASS
	Ant2	5260	21.48	5248.84	5270.32	---	PASS
	Ant3	5260	21.32	5249.28	5270.60	---	PASS
	Ant1	5300	21.52	5288.76	5310.28	---	PASS
	Ant2	5300	21.16	5289.20	5310.36	---	PASS
	Ant3	5300	20.20	5289.84	5310.04	---	PASS
	Ant1	5320	21.60	5308.84	5330.44	---	PASS
	Ant2	5320	21.48	5309.56	5331.04	---	PASS
	Ant3	5320	21.56	5309.48	5331.04	---	PASS
	Ant1	5500	20.00	5490.04	5510.04	---	PASS
	Ant2	5500	21.84	5488.92	5510.76	---	PASS
	Ant3	5500	22.68	5488.88	5511.56	---	PASS
	Ant1	5580	21.44	5569.28	5590.72	---	PASS
	Ant2	5580	25.88	5567.08	5592.96	---	PASS
	Ant3	5580	27.32	5565.56	5592.88	---	PASS
	Ant1	5700	21.84	5688.96	5710.80	---	PASS
	Ant2	5700	21.00	5689.40	5710.40	---	PASS
	Ant3	5700	20.88	5689.48	5710.36	---	PASS
11N20MIMO	Ant1	5180	22.44	5168.44	5190.88	---	PASS
	Ant2	5180	22.32	5168.64	5190.96	---	PASS
	Ant3	5180	21.72	5168.88	5190.60	---	PASS
	Ant1	5220	22.12	5208.76	5230.88	---	PASS
	Ant2	5220	22.96	5208.00	5230.96	---	PASS
	Ant3	5220	22.00	5208.72	5230.72	---	PASS
	Ant1	5240	23.12	5228.28	5251.40	---	PASS
	Ant2	5240	22.12	5228.76	5250.88	---	PASS
	Ant3	5240	21.68	5229.08	5250.76	---	PASS
	Ant1	5260	22.64	5248.28	5270.92	---	PASS
	Ant2	5260	22.04	5249.00	5271.04	---	PASS
	Ant3	5260	22.60	5248.44	5271.04	---	PASS
	Ant1	5300	22.36	5288.72	5311.08	---	PASS
	Ant2	5300	22.08	5289.00	5311.08	---	PASS

	Ant3	5300	22.24	5288.68	5310.92	---	PASS
	Ant1	5320	22.60	5308.44	5331.04	---	PASS
	Ant2	5320	22.76	5308.56	5331.32	---	PASS
	Ant3	5320	21.56	5309.32	5330.88	---	PASS
	Ant1	5500	22.68	5488.40	5511.08	---	PASS
	Ant2	5500	22.92	5488.40	5511.32	---	PASS
	Ant3	5500	21.80	5489.00	5510.80	---	PASS
	Ant1	5580	26.44	5566.24	5592.68	---	PASS
	Ant2	5580	22.32	5568.64	5590.96	---	PASS
	Ant3	5580	21.92	5569.00	5590.92	---	PASS
	Ant1	5700	23.64	5688.04	5711.68	---	PASS
	Ant2	5700	22.44	5688.64	5711.08	---	PASS
	Ant3	5700	22.16	5688.48	5710.64	---	PASS
11N40MIMO	Ant1	5190	45.92	5167.36	5213.28	---	PASS
	Ant2	5190	44.72	5166.88	5211.60	---	PASS
	Ant3	5190	45.28	5167.52	5212.80	---	PASS
	Ant1	5230	44.00	5207.76	5251.76	---	PASS
	Ant2	5230	46.16	5206.16	5252.32	---	PASS
	Ant3	5230	44.40	5206.96	5251.36	---	PASS
	Ant1	5270	44.56	5248.32	5292.88	---	PASS
	Ant2	5270	45.04	5247.44	5292.48	---	PASS
	Ant3	5270	44.40	5247.28	5291.68	---	PASS
	Ant1	5310	44.24	5288.96	5333.20	---	PASS
	Ant2	5310	45.28	5287.12	5332.40	---	PASS
	Ant3	5310	44.64	5287.44	5332.08	---	PASS
	Ant1	5510	45.44	5487.44	5532.88	---	PASS
	Ant2	5510	45.76	5486.56	5532.32	---	PASS
	Ant3	5510	45.12	5486.96	5532.08	---	PASS
	Ant1	5550	45.20	5527.12	5572.32	---	PASS
	Ant2	5550	44.88	5526.88	5571.76	---	PASS
	Ant3	5550	44.80	5527.52	5572.32	---	PASS
	Ant1	5670	79.76	5630.24	5710.00	---	PASS
	Ant2	5670	80.00	5630.00	5710.00	---	PASS
	Ant3	5670	45.44	5647.36	5692.80	---	PASS
11AC20MIMO	Ant1	5180	21.80	5169.04	5190.84	---	PASS
	Ant2	5180	21.88	5168.88	5190.76	---	PASS
	Ant3	5180	21.60	5169.08	5190.68	---	PASS
	Ant1	5220	21.88	5208.96	5230.84	---	PASS
	Ant2	5220	22.12	5208.32	5230.44	---	PASS
	Ant3	5220	21.56	5209.24	5230.80	---	PASS
	Ant1	5240	22.24	5228.76	5251.00	---	PASS
	Ant2	5240	21.76	5229.12	5250.88	---	PASS
	Ant3	5240	21.68	5229.08	5250.76	---	PASS
	Ant1	5260	22.40	5248.96	5271.36	---	PASS
	Ant2	5260	22.92	5248.80	5271.72	---	PASS
	Ant3	5260	22.96	5248.24	5271.20	---	PASS

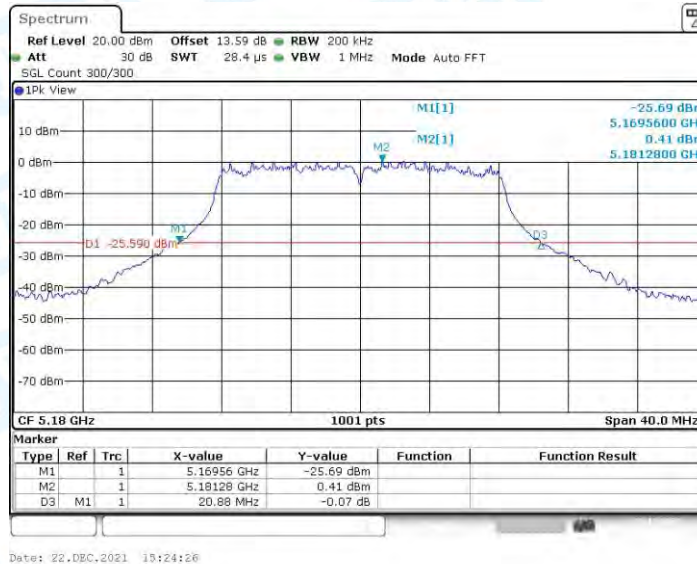
	Ant1	5300	23.60	5288.16	5311.76	---	PASS
	Ant2	5300	22.56	5288.84	5311.40	---	PASS
	Ant3	5300	21.04	5289.52	5310.56	---	PASS
	Ant1	5320	22.60	5308.68	5331.28	---	PASS
	Ant2	5320	21.92	5309.16	5331.08	---	PASS
	Ant3	5320	21.12	5309.56	5330.68	---	PASS
	Ant1	5500	22.64	5488.36	5511.00	---	PASS
	Ant2	5500	22.44	5488.72	5511.16	---	PASS
	Ant3	5500	21.68	5489.28	5510.96	---	PASS
	Ant1	5580	22.80	5568.84	5591.64	---	PASS
	Ant2	5580	22.28	5569.08	5591.36	---	PASS
	Ant3	5580	22.72	5568.48	5591.20	---	PASS
	Ant1	5700	22.92	5688.88	5711.80	---	PASS
	Ant2	5700	22.92	5688.44	5711.36	---	PASS
	Ant3	5700	22.16	5688.84	5711.00	---	PASS
11AC40MIMO	Ant1	5190	43.36	5168.64	5212.00	---	PASS
	Ant2	5190	44.32	5167.44	5211.76	---	PASS
	Ant3	5190	42.80	5168.72	5211.52	---	PASS
	Ant1	5230	42.00	5208.96	5250.96	---	PASS
	Ant2	5230	45.44	5206.40	5251.84	---	PASS
	Ant3	5230	41.76	5209.28	5251.04	---	PASS
	Ant1	5270	44.32	5246.96	5291.28	---	PASS
	Ant2	5270	44.16	5247.84	5292.00	---	PASS
	Ant3	5270	42.96	5248.64	5291.60	---	PASS
	Ant1	5310	44.40	5287.36	5331.76	---	PASS
	Ant2	5310	43.60	5288.24	5331.84	---	PASS
	Ant3	5310	44.32	5288.24	5332.56	---	PASS
	Ant1	5510	43.76	5488.40	5532.16	---	PASS
	Ant2	5510	43.04	5488.48	5531.52	---	PASS
	Ant3	5510	42.88	5488.88	5531.76	---	PASS
	Ant1	5550	44.24	5527.84	5572.08	---	PASS
	Ant2	5550	44.64	5527.92	5572.56	---	PASS
	Ant3	5550	42.48	5528.24	5570.72	---	PASS
	Ant1	5670	43.84	5648.24	5692.08	---	PASS
	Ant2	5670	44.48	5647.92	5692.40	---	PASS
	Ant3	5670	42.56	5649.36	5691.92	---	PASS
11AC80MIMO	Ant1	5210	84.16	5168.08	5252.24	---	PASS
	Ant2	5210	83.84	5167.76	5251.60	---	PASS
	Ant3	5210	86.08	5166.80	5252.88	---	PASS
	Ant1	5290	84.96	5246.64	5331.60	---	PASS
	Ant2	5290	83.52	5248.08	5331.60	---	PASS
	Ant3	5290	87.52	5245.68	5333.20	---	PASS
	Ant1	5530	86.88	5486.80	5573.68	---	PASS
	Ant2	5530	85.60	5486.32	5571.92	---	PASS
	Ant3	5530	86.88	5486.32	5573.20	---	PASS
	Ant1	5610	80.80	5569.20	5650.00	---	PASS

	Ant2	5610	84.48	5567.60	5652.08	---	PASS
	Ant3	5610	85.60	5566.96	5652.56	---	PASS

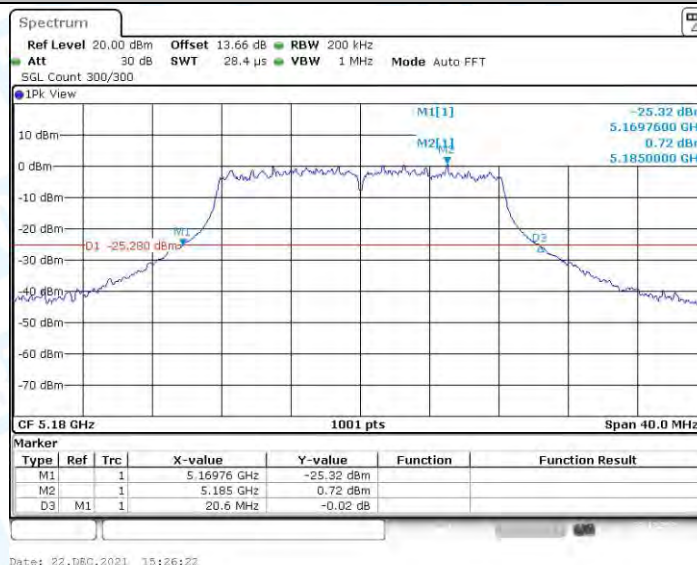
1.2. Test Graphs



11A_Ant1_5180



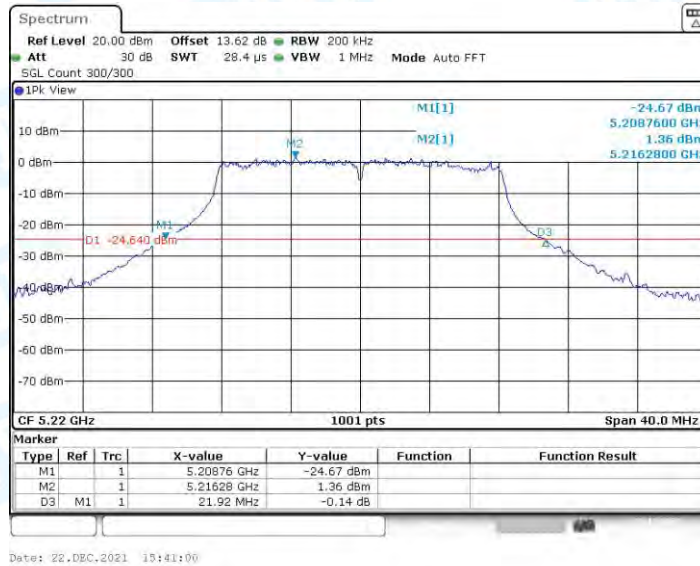
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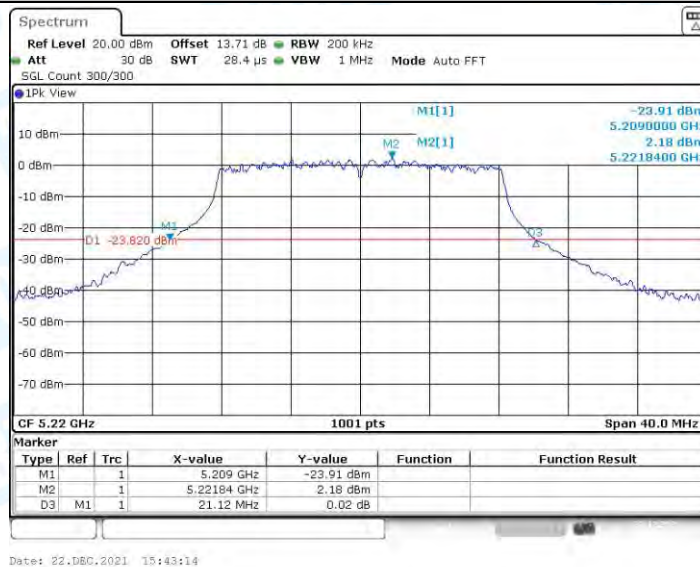
11A_Ant3_5180



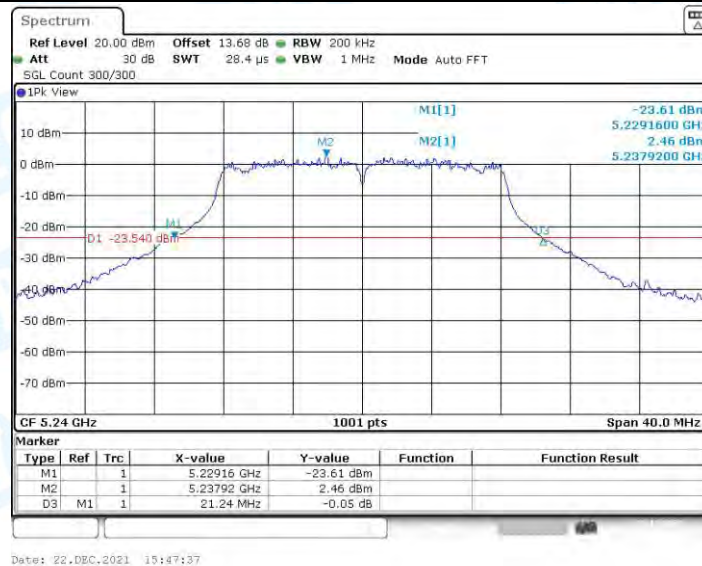
11A_Ant1_5220



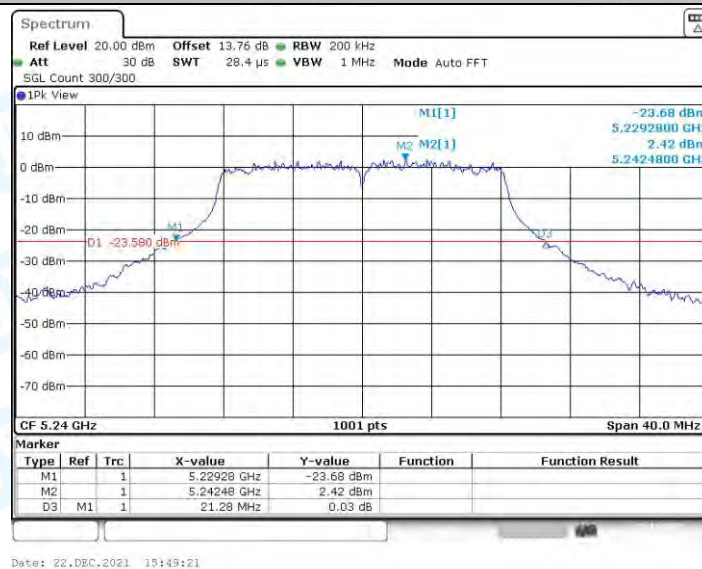
11A_Ant2_5220



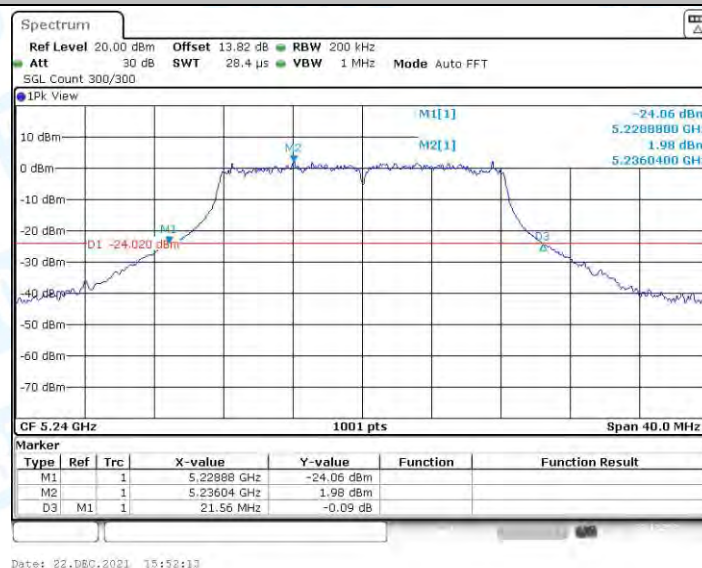
11A_Ant3_5220



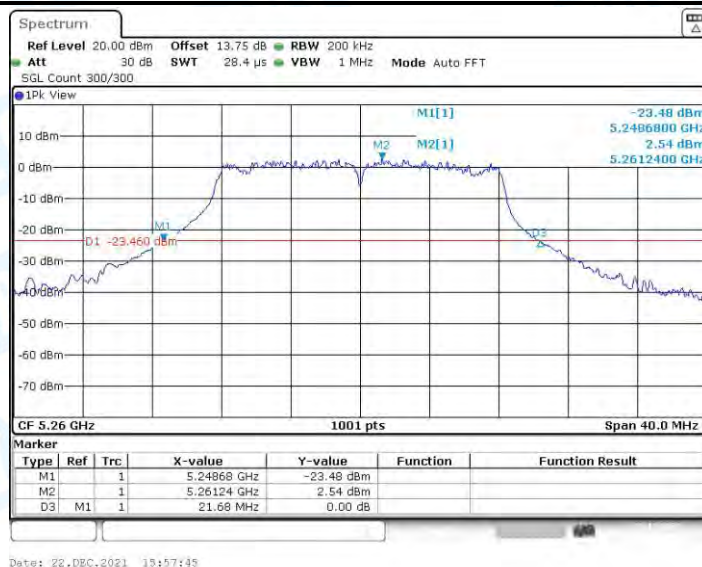
11A_Ant1_5240



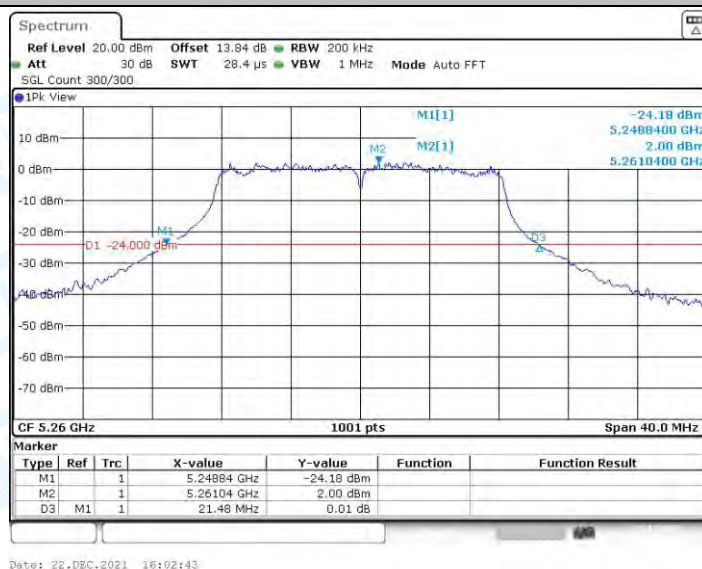
11A_Ant2_5240



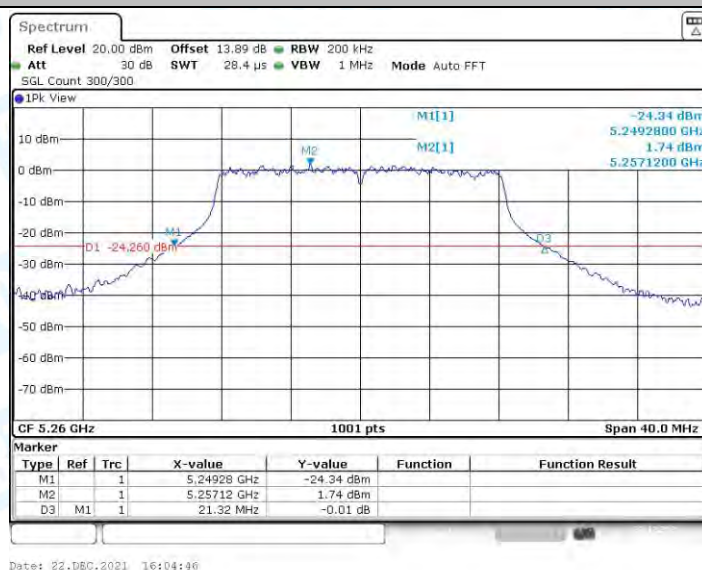
11A_Ant3_5240



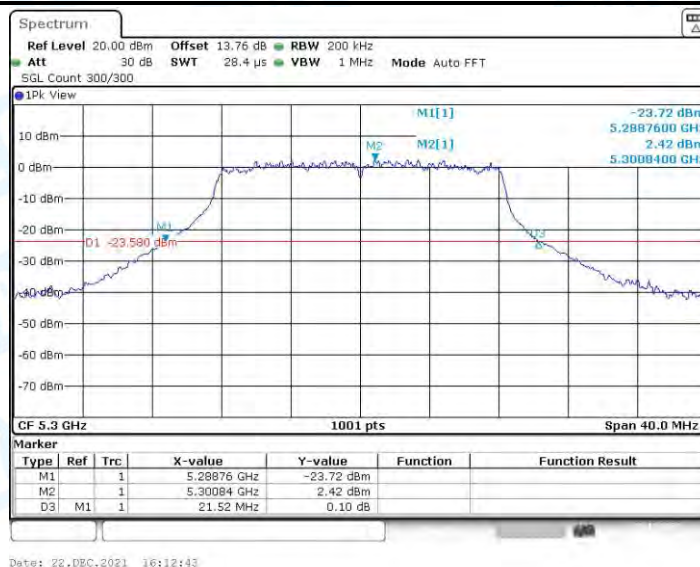
11A_Ant1_5260



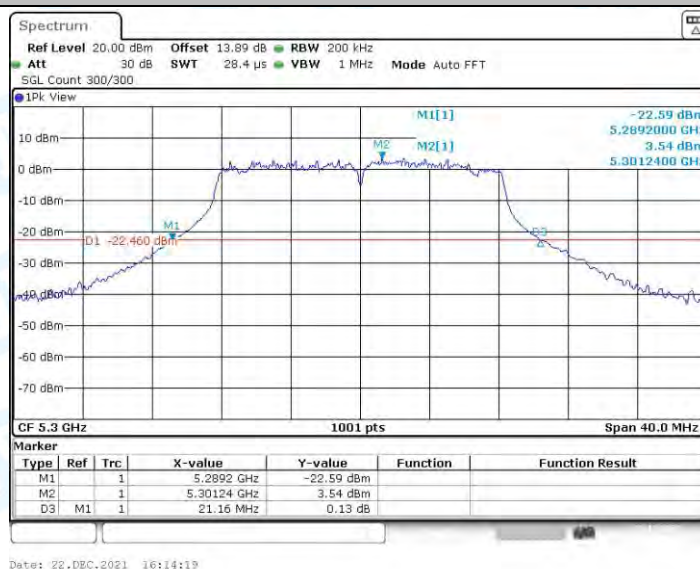
11A_Ant2_5260



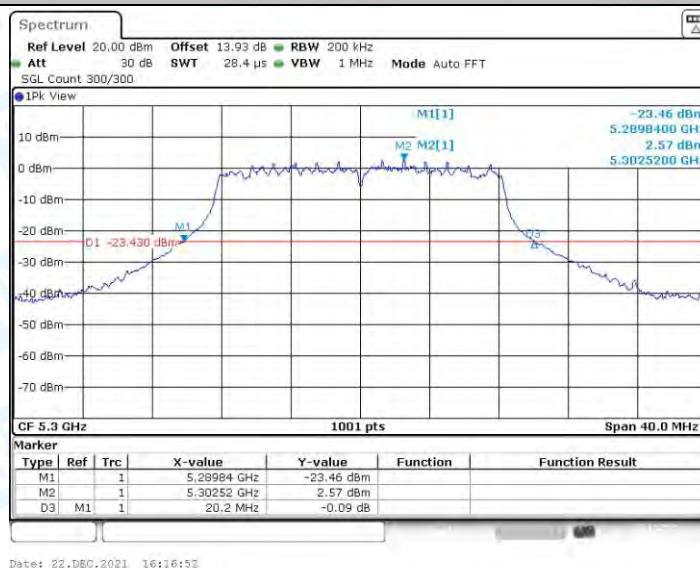
11A_Ant3_5260



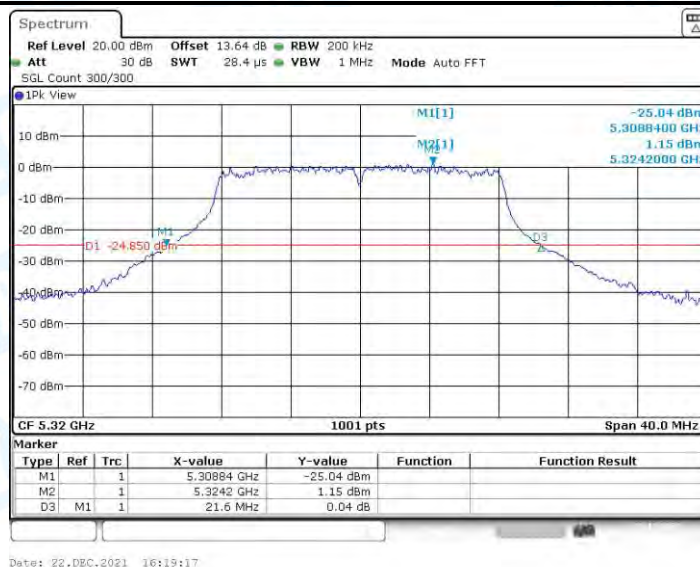
11A_Ant1_5300



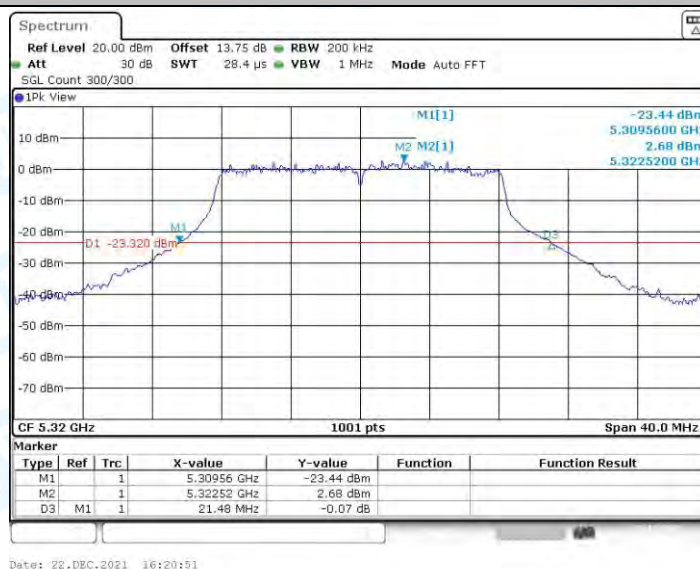
11A_Ant2_5300



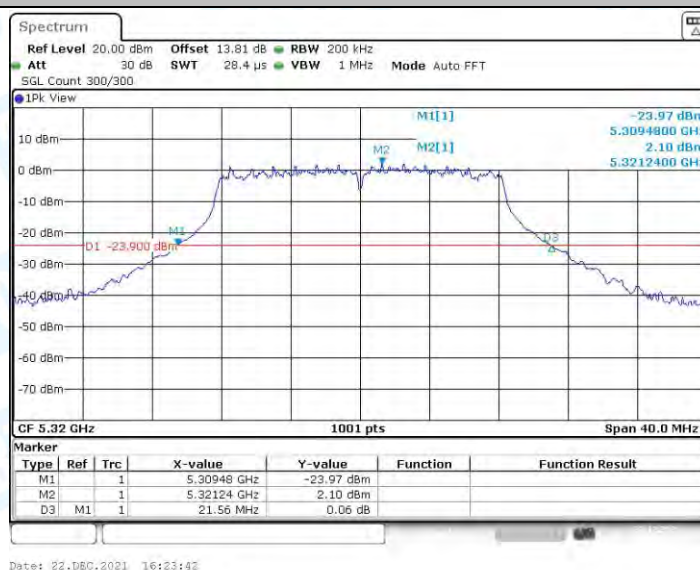
11A_Ant3_5300



11A_Ant1_5320



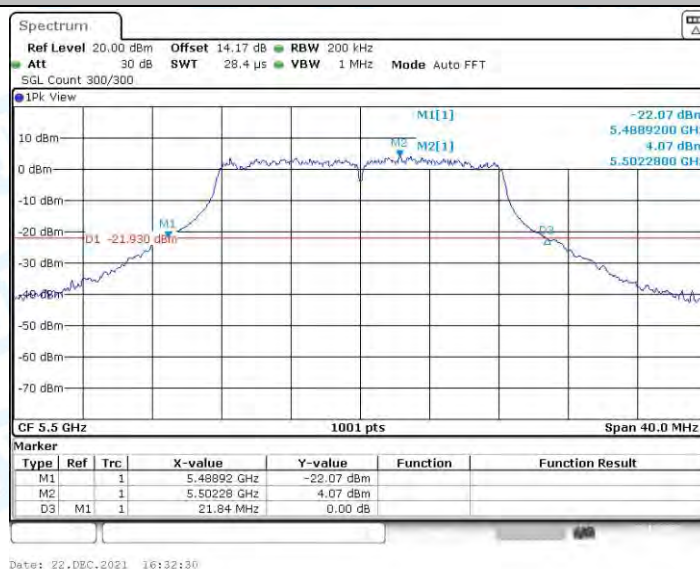
11A_Ant2_5320



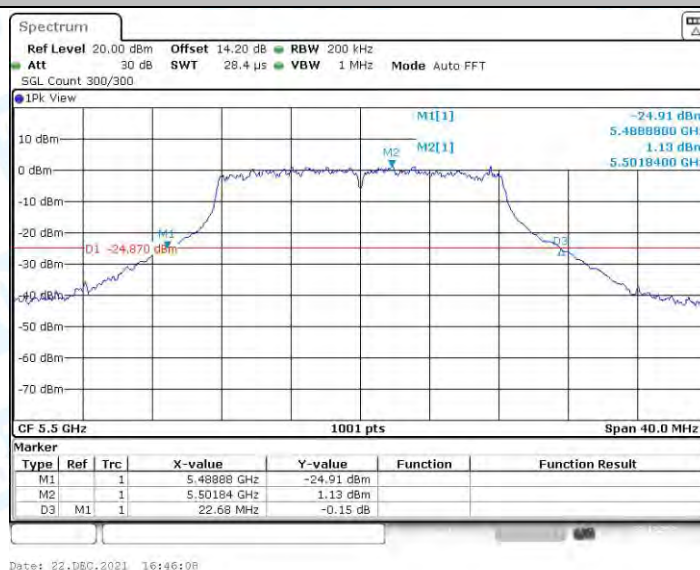
11A_Ant3_5320



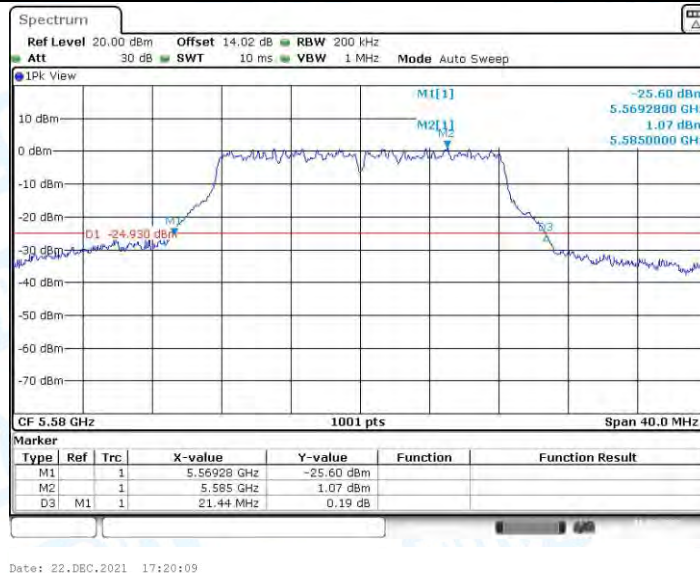
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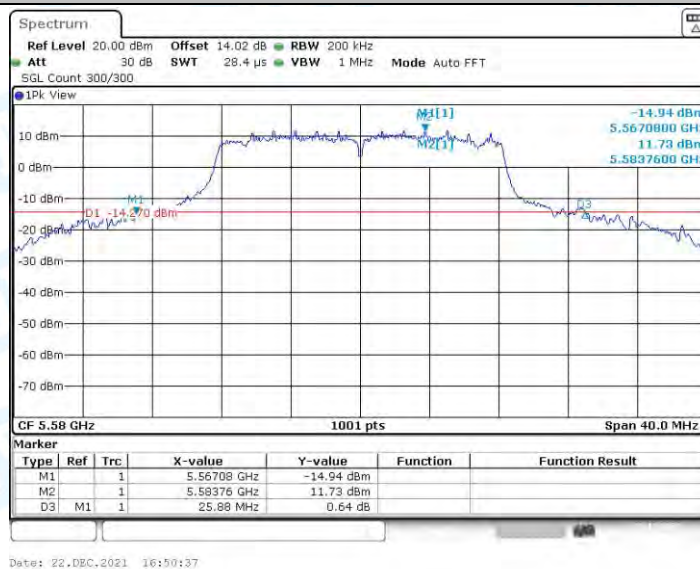
11A_Ant2_5500



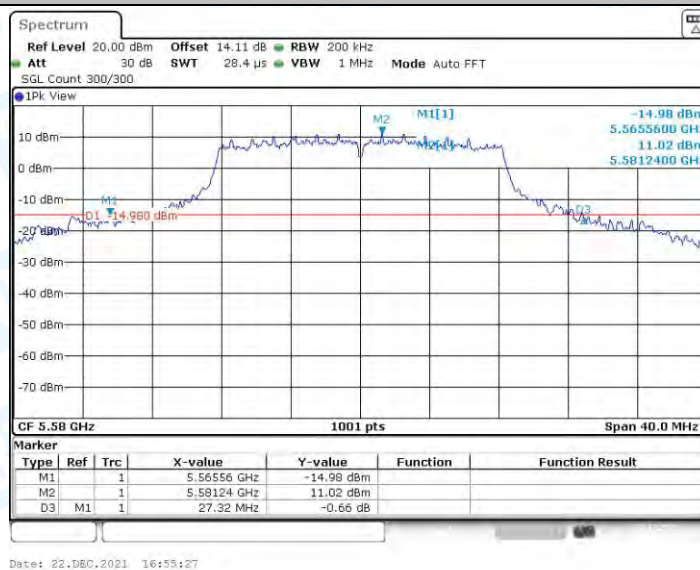
11A_Ant3_5500



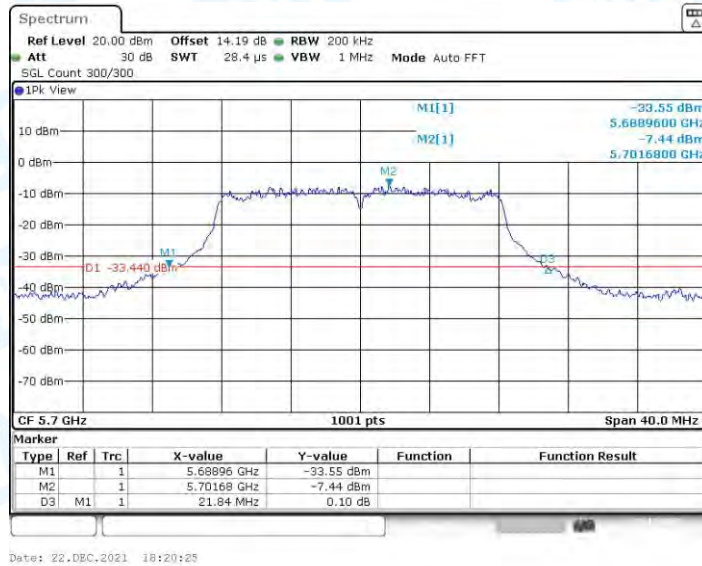
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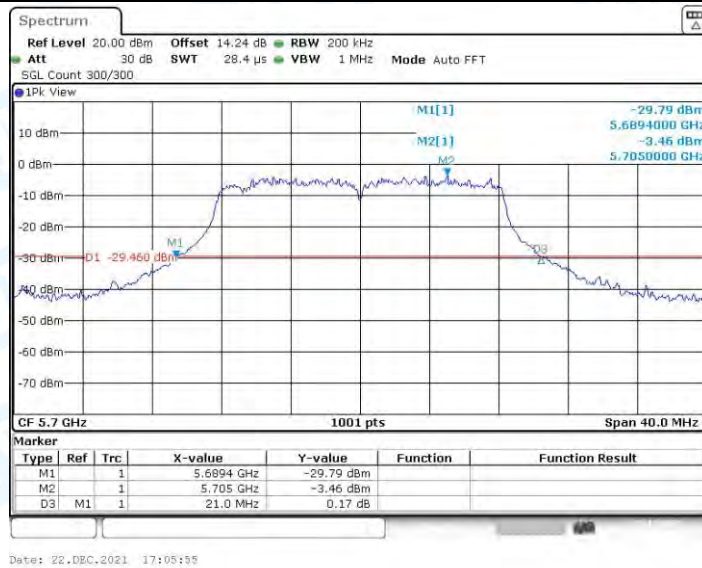
11A_Ant2_5580



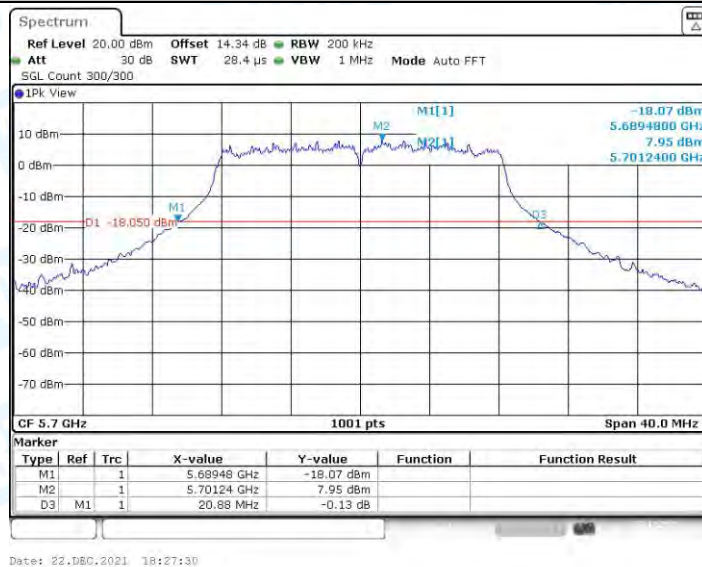
11A_Ant3_5580



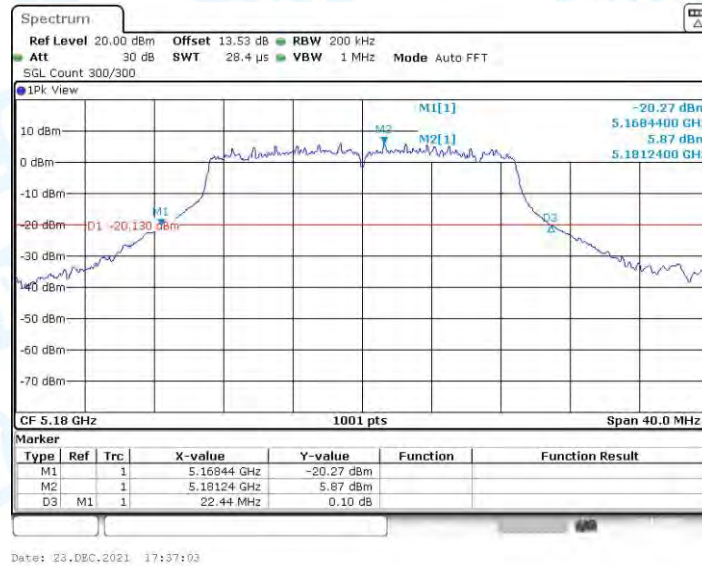
11A_Ant1_5700



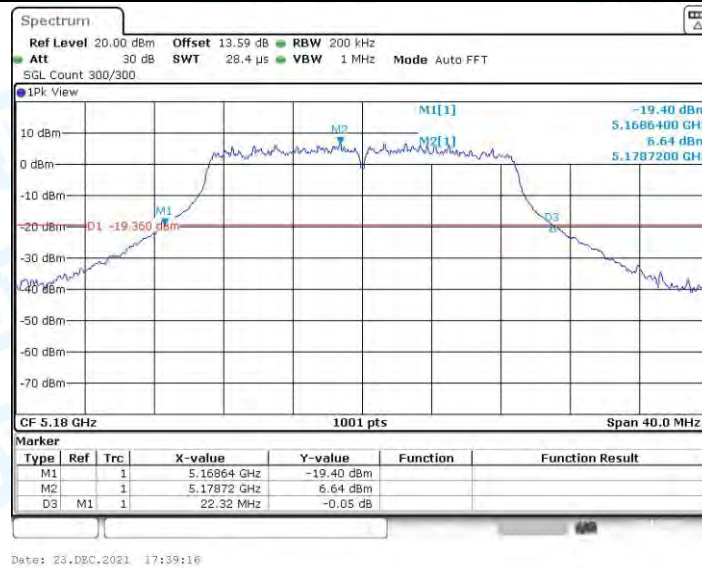
11A_Ant2_5700



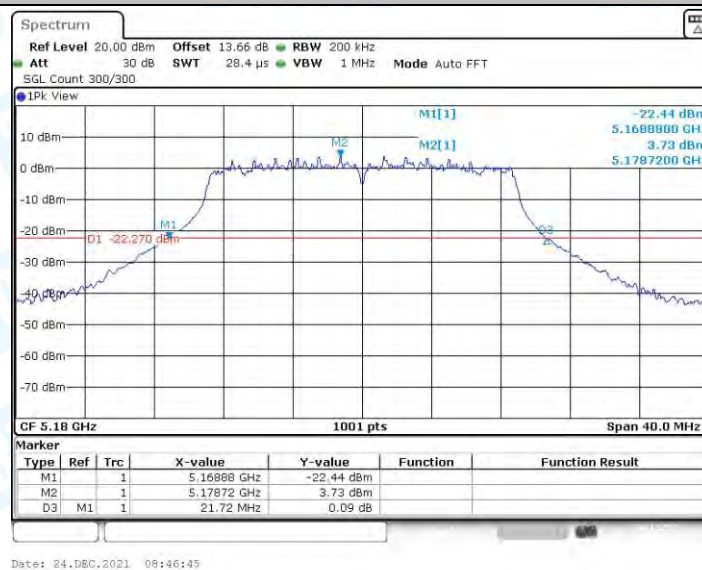
11A_Ant3_5700



11N20MIMO_Ant1_5180



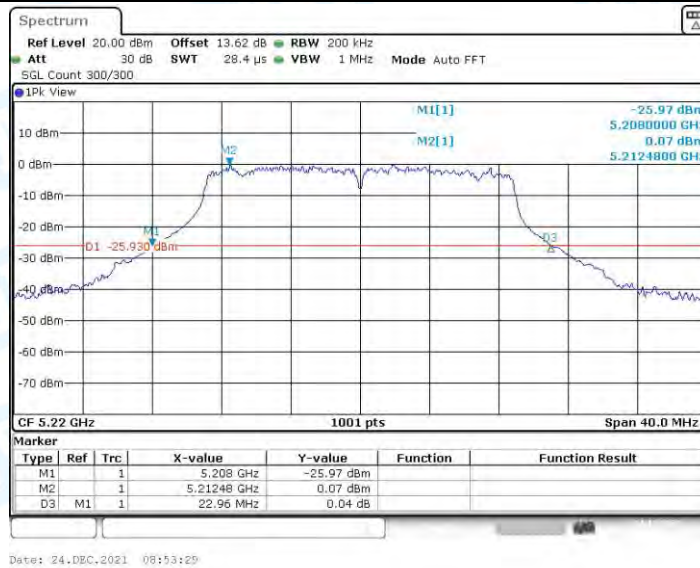
11N20MIMO_Ant2_5180



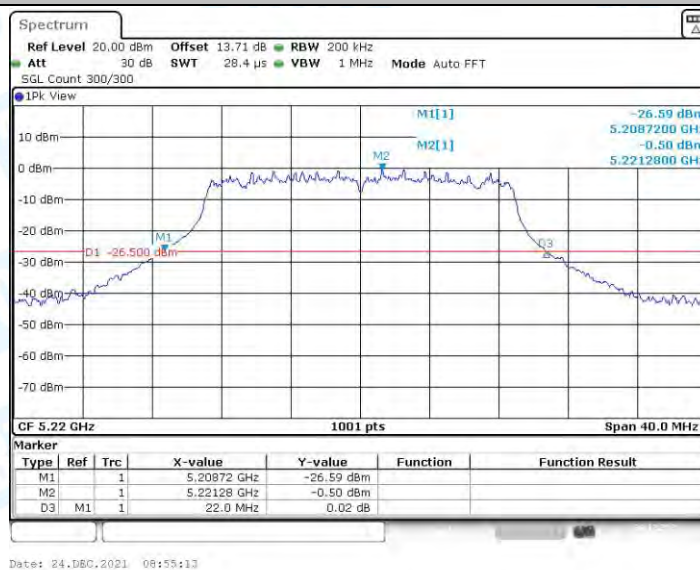
11N20MIMO_Ant3_5180



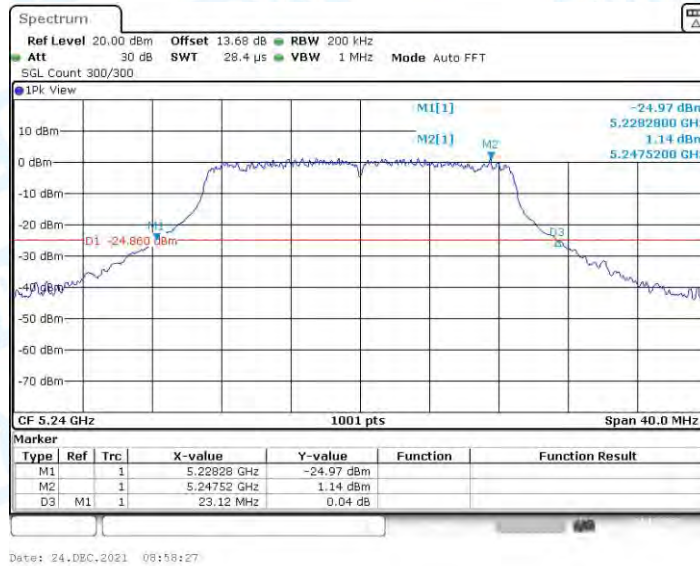
11N20MIMO_Ant1_5220



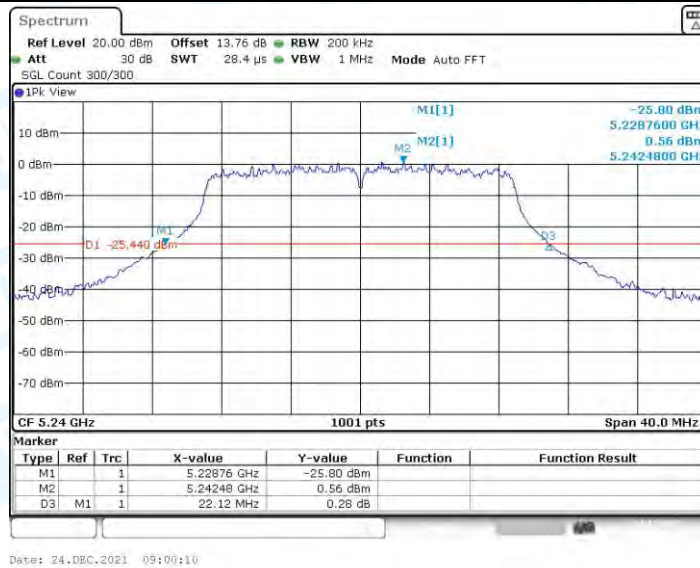
11N20MIMO_Ant2_5220



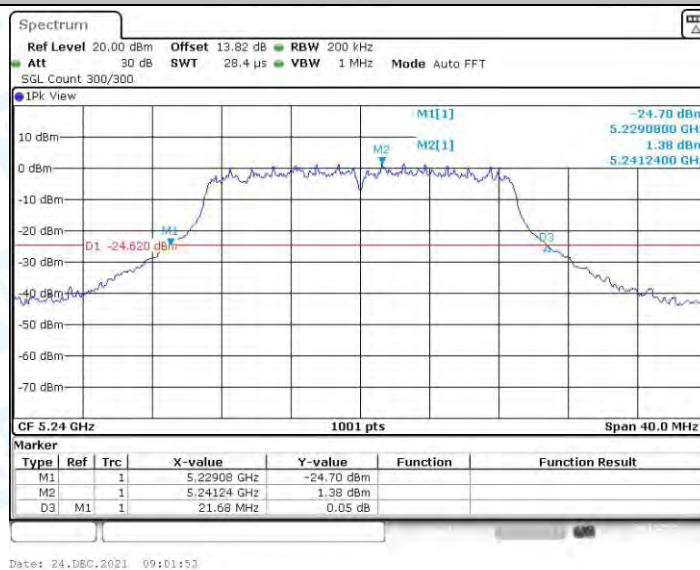
11N20MIMO_Ant3_5220



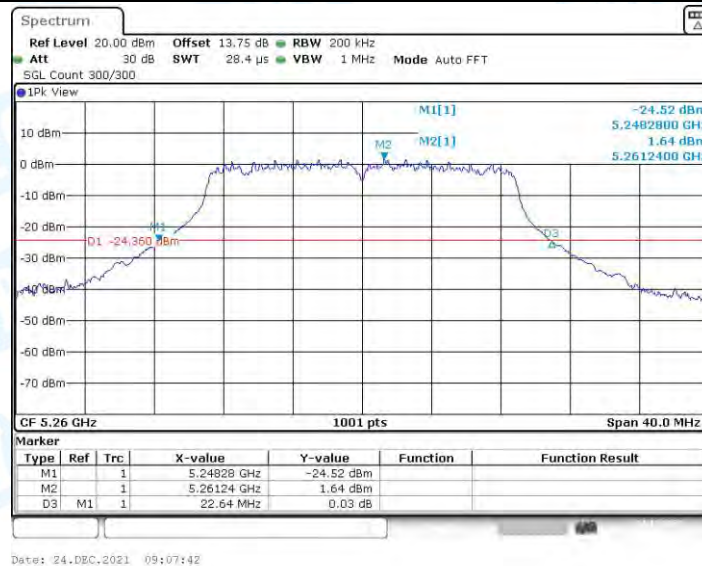
11N20MIMO_Ant1_5240



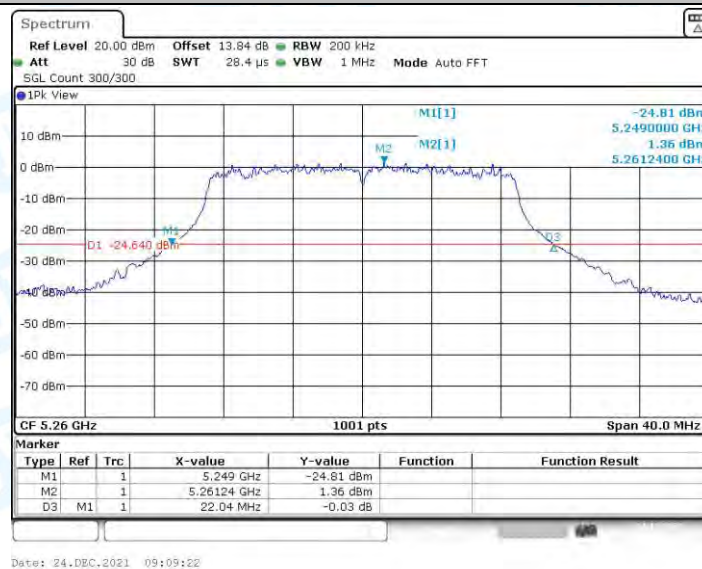
11N20MIMO_Ant2_5240



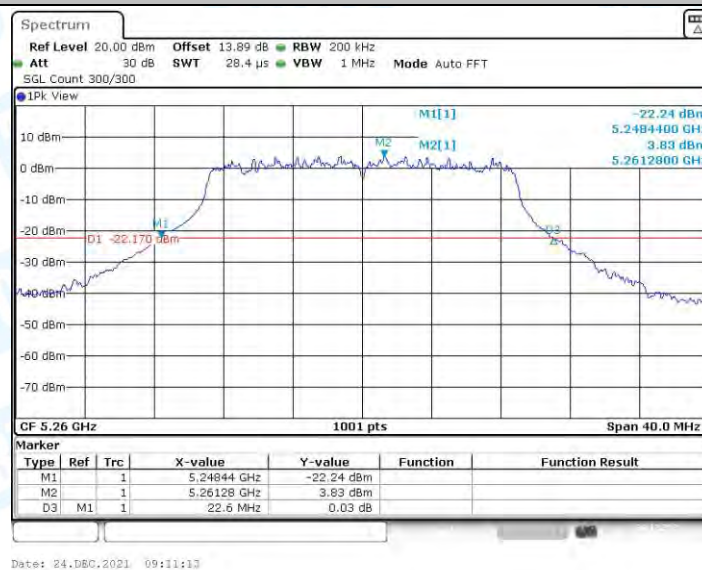
11N20MIMO_Ant3_5240



11N20MIMO_Ant1_5260



11N20MIMO_Ant2_5260



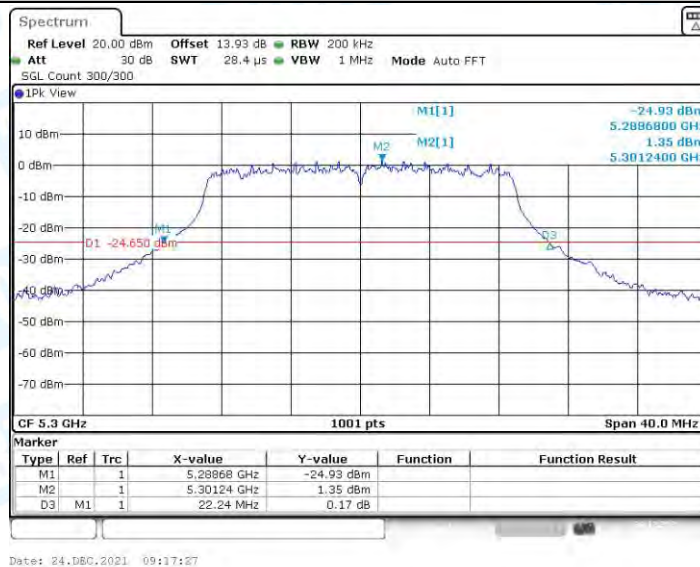
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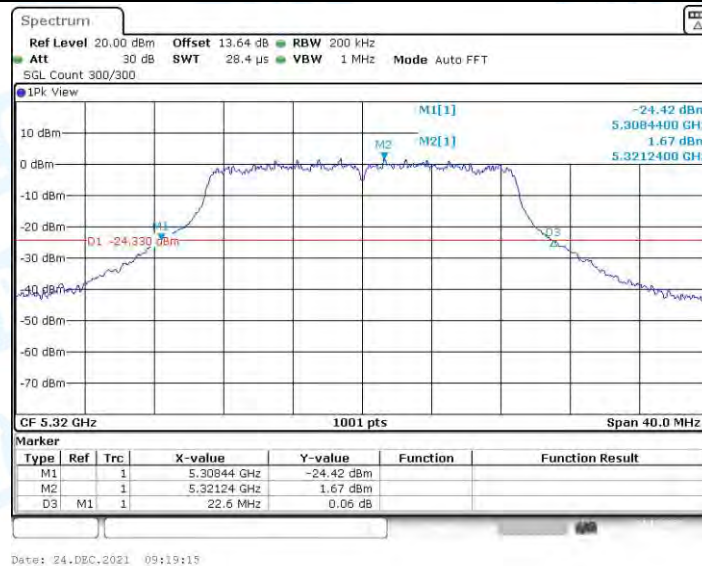
11N20MIMO_Ant1_5300



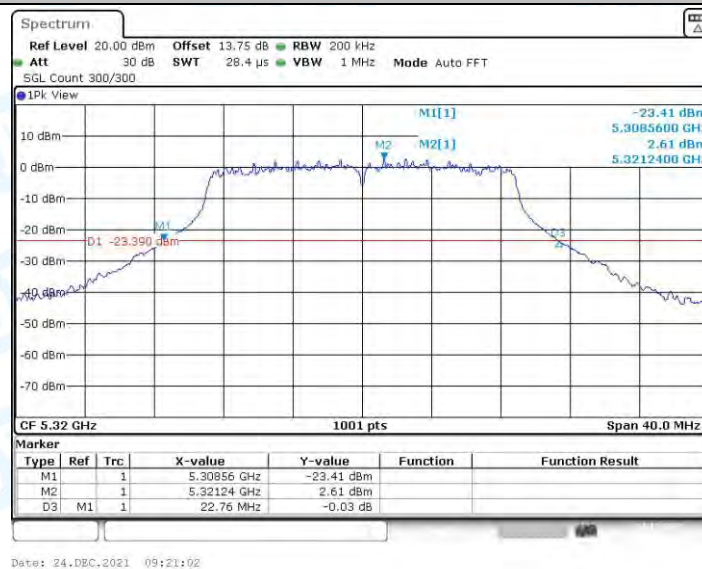
11N20MIMO_Ant2_5300



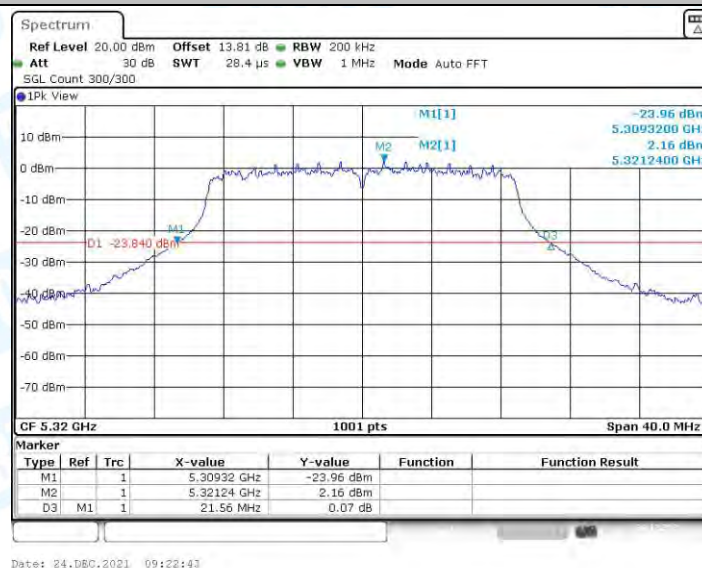
11N20MIMO_Ant3_5300



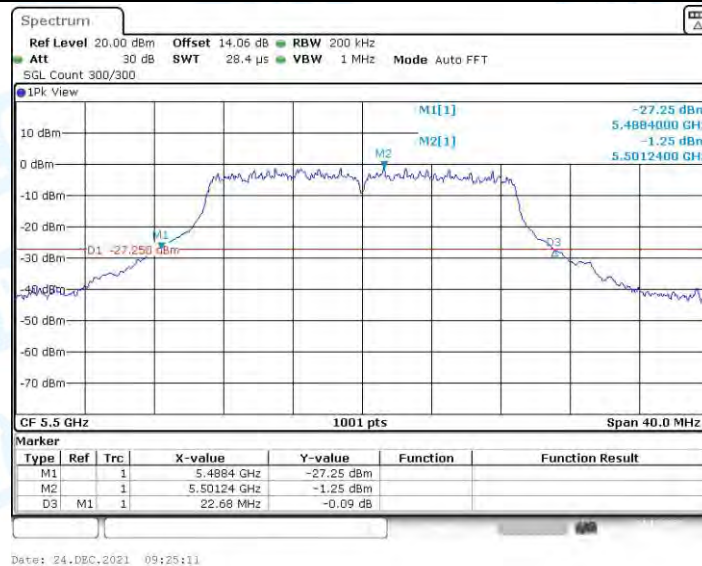
11N20MIMO_Ant1_5320



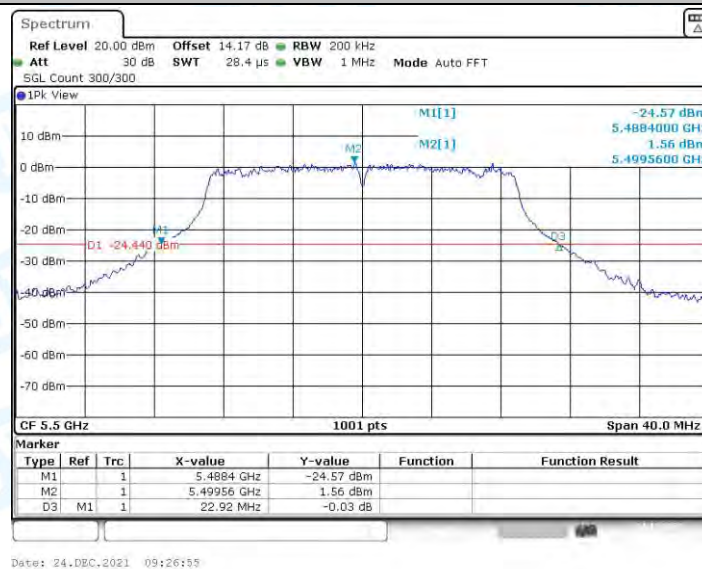
11N20MIMO_Ant2_5320



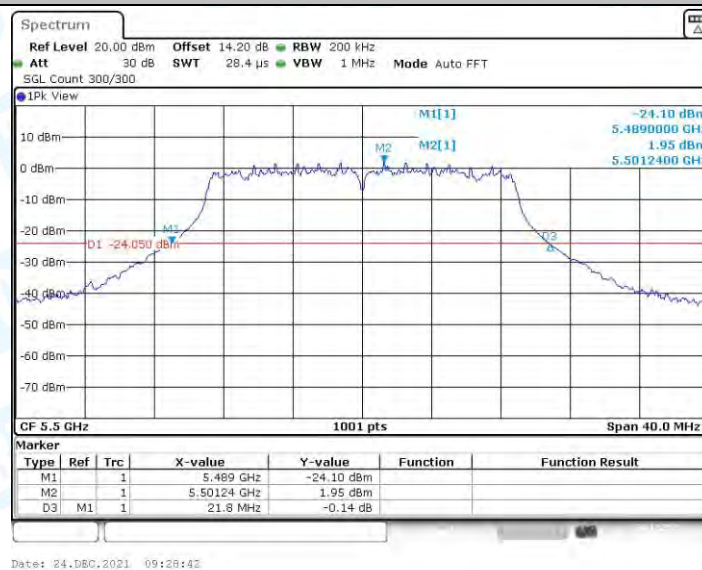
11N20MIMO_Ant3_5320



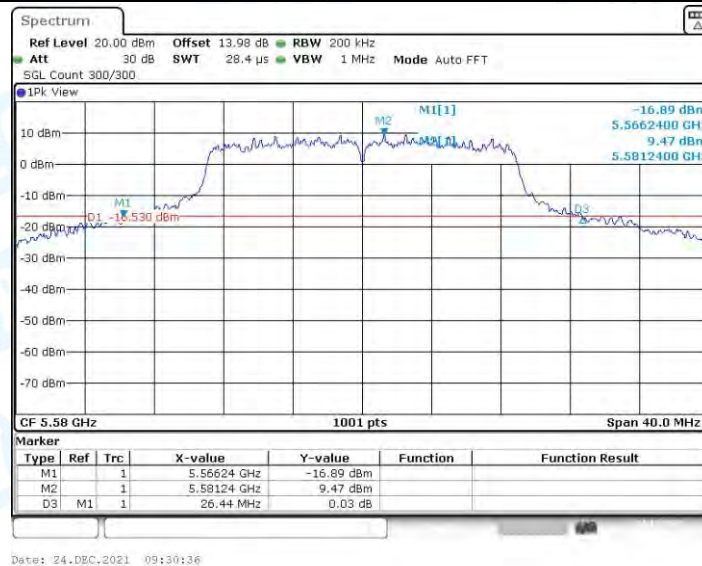
11N20MIMO_Ant1_5500



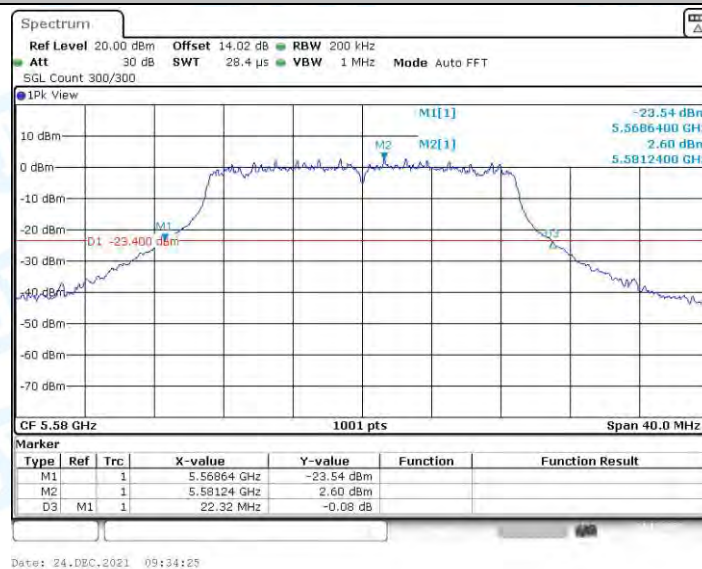
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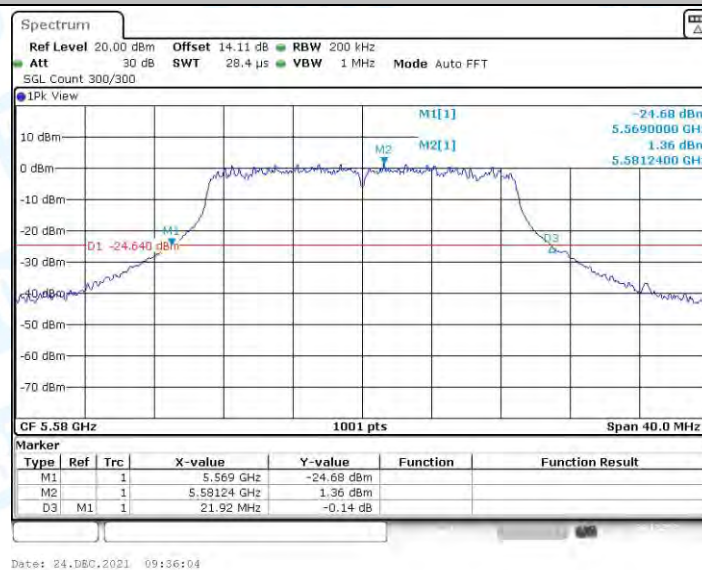
11N20MIMO_Ant3_5500



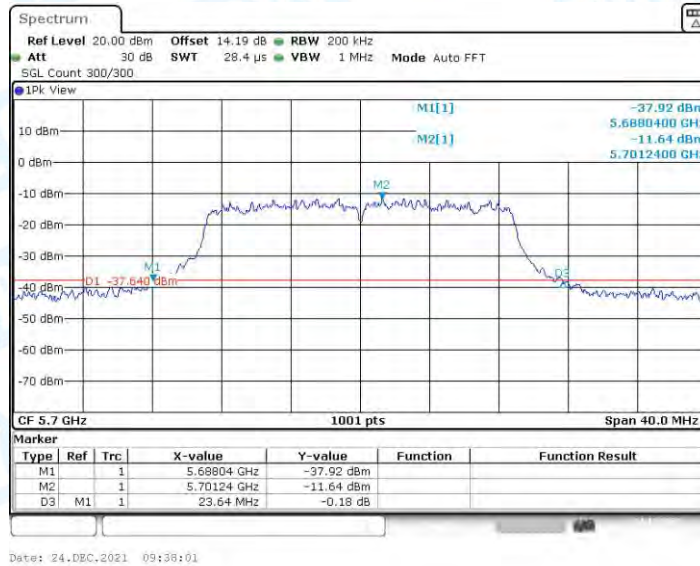
11N20MIMO_Ant1_5580



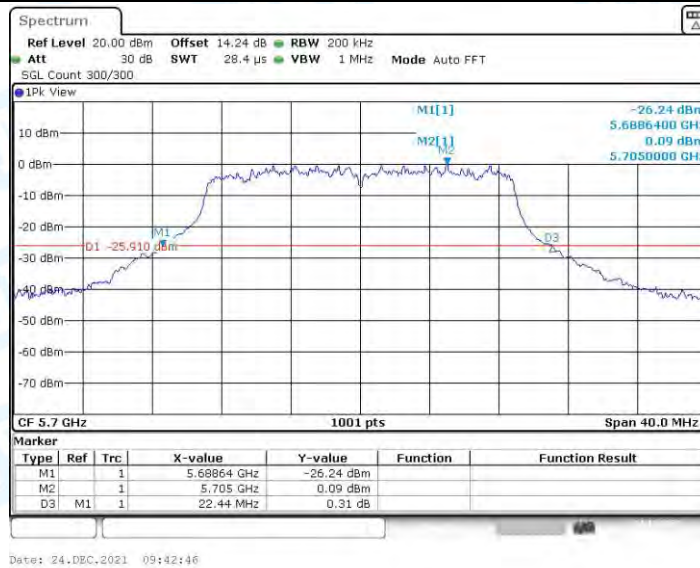
11N20MIMO_Ant2_5580



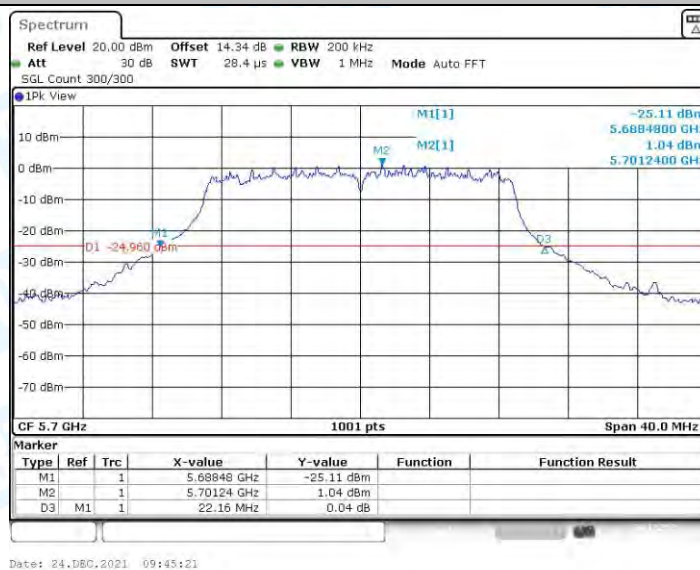
11N20MIMO_Ant3_5580



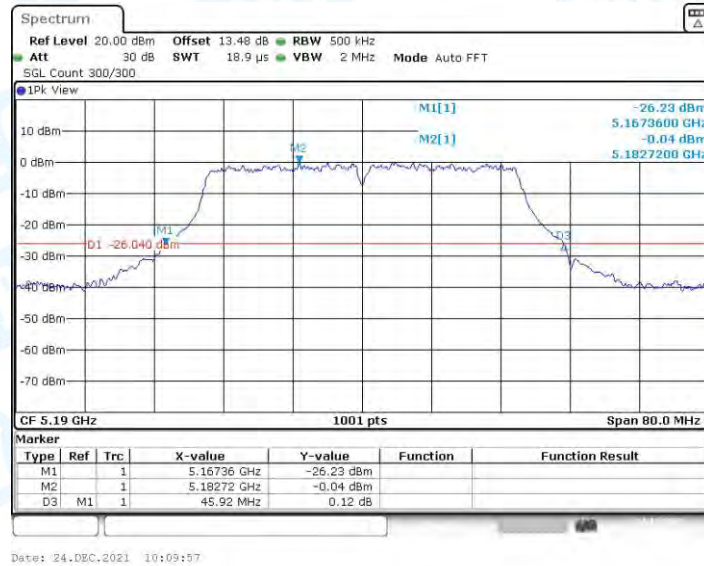
11N20MIMO_Ant1_5700



11N20MIMO_Ant2_5700



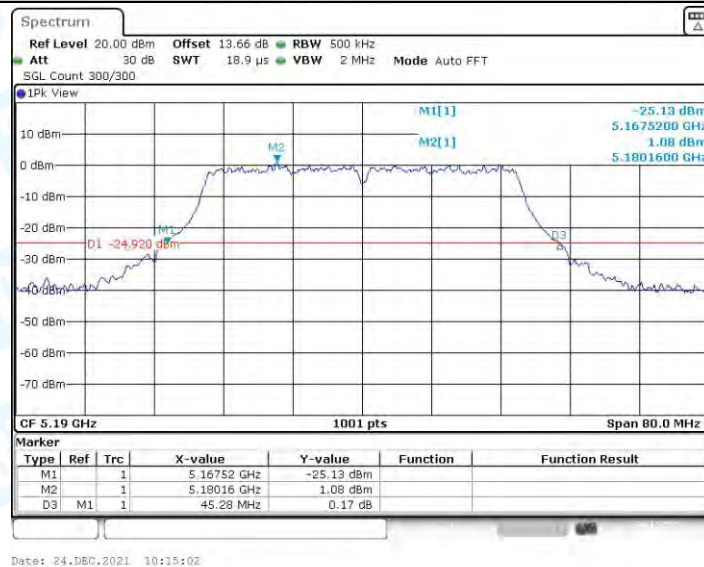
11N20MIMO_Ant3_5700



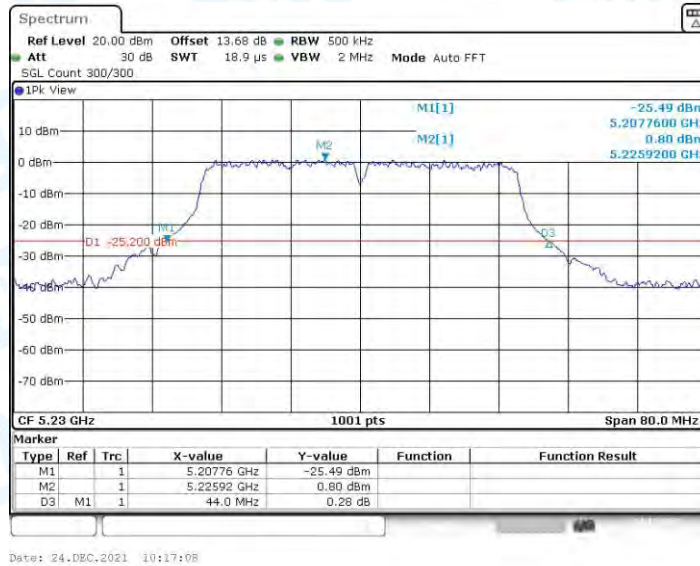
11N40MIMO_Ant1_5190



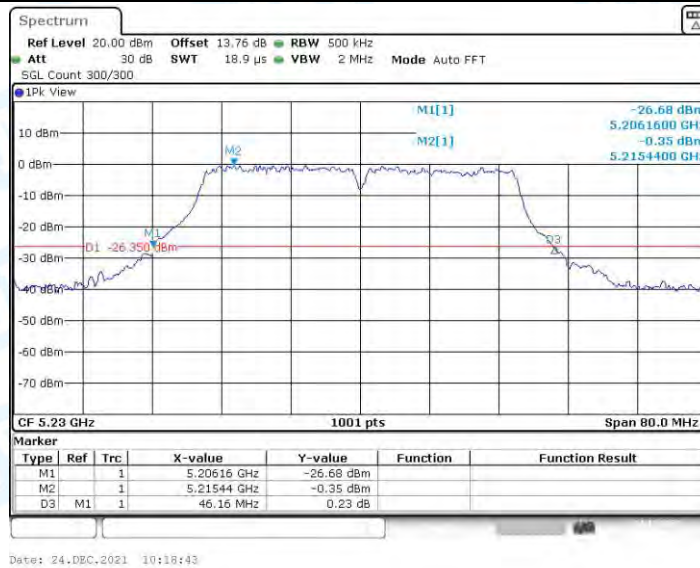
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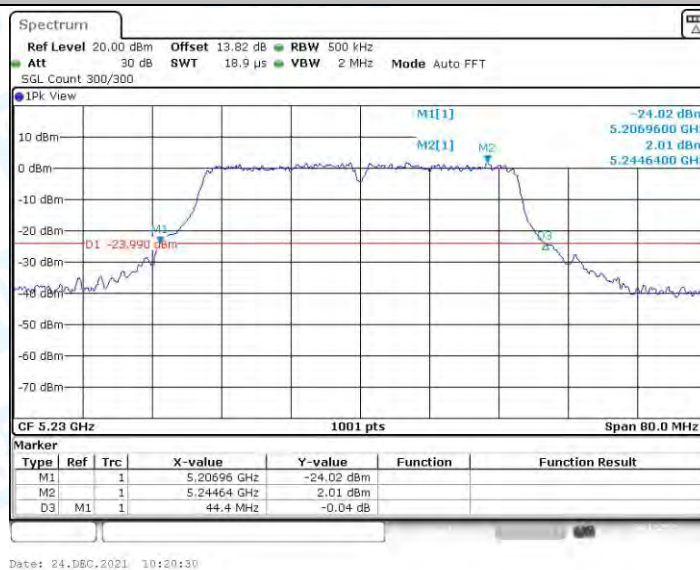
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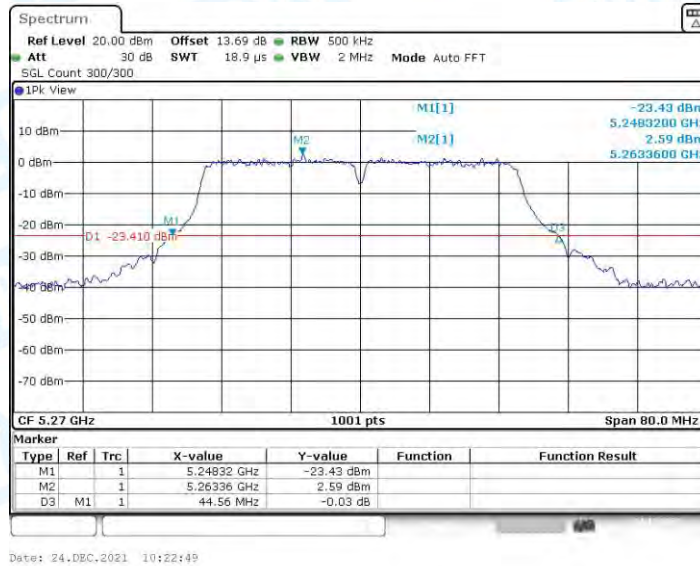
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11N40MIMO_Ant2_5230



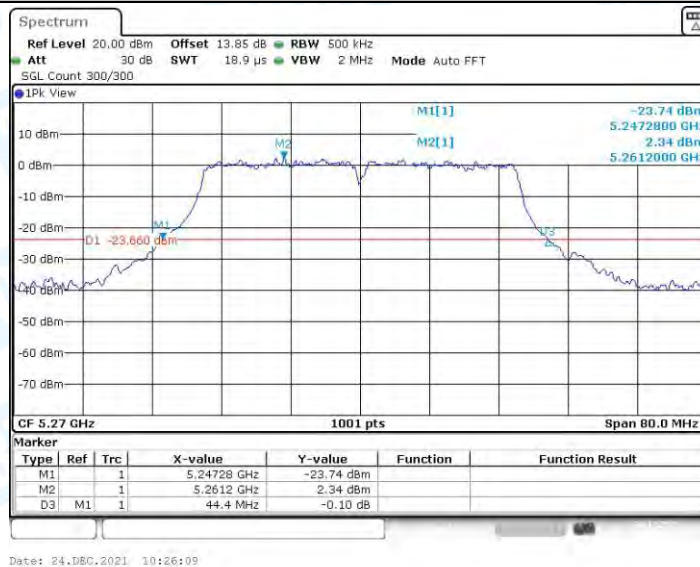
11N40MIMO_Ant3_5230



11N40MIMO_Ant1_5270



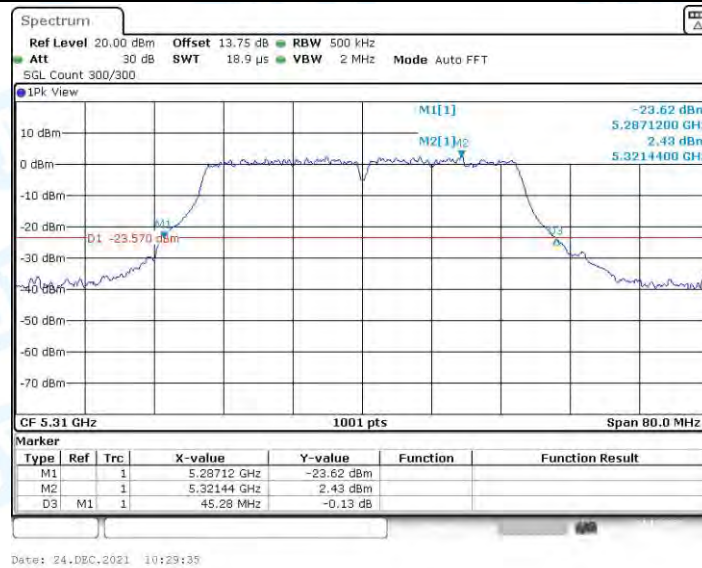
11N40MIMO_Ant2_5270



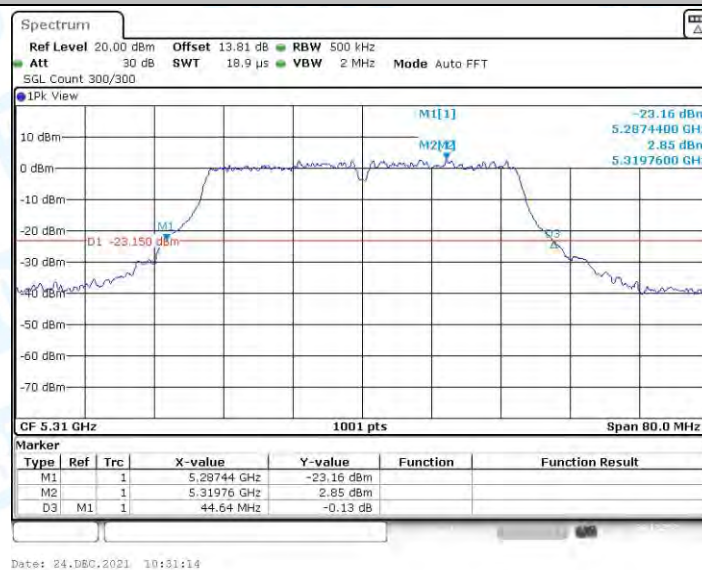
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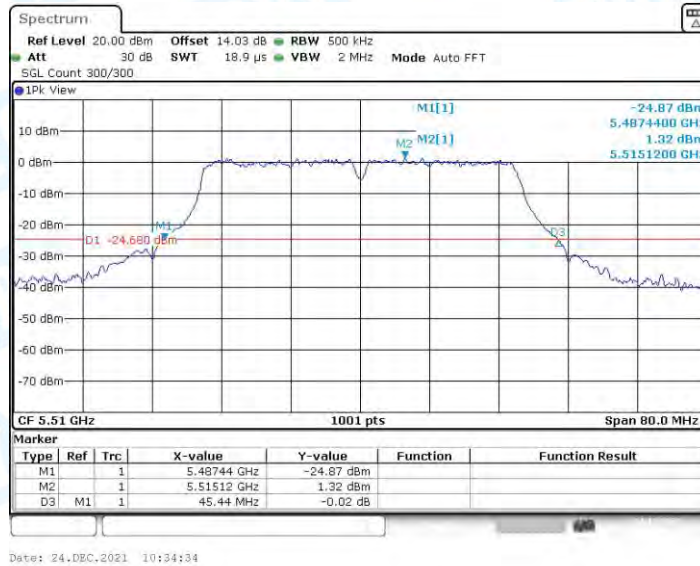
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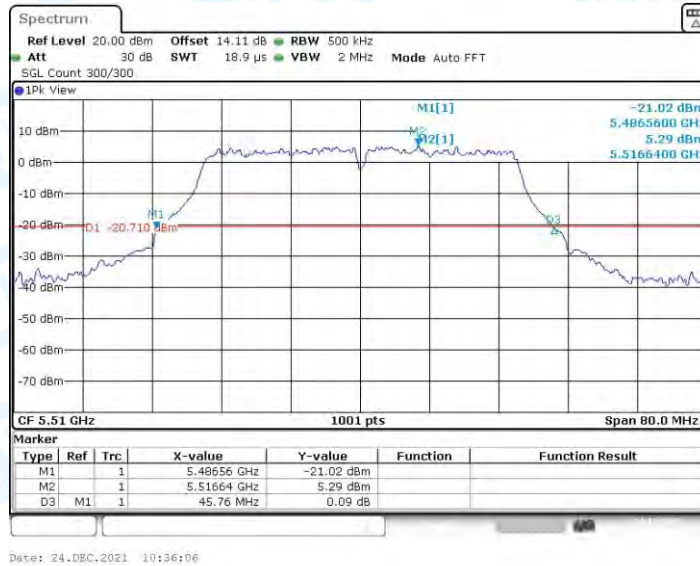
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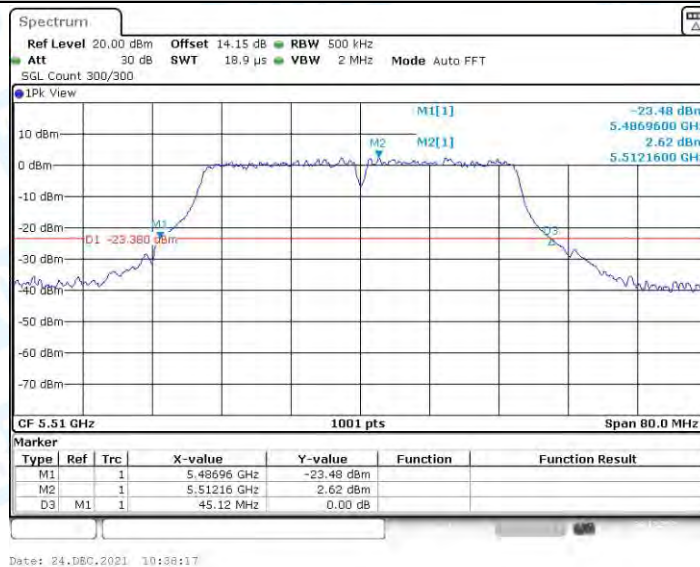
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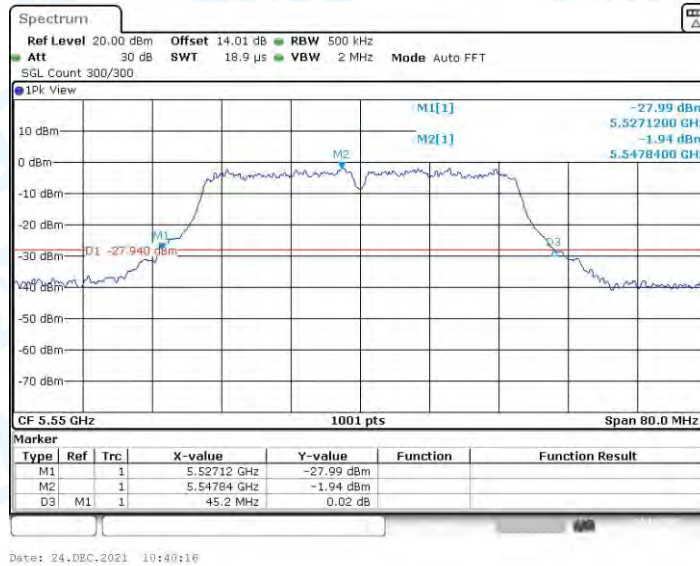
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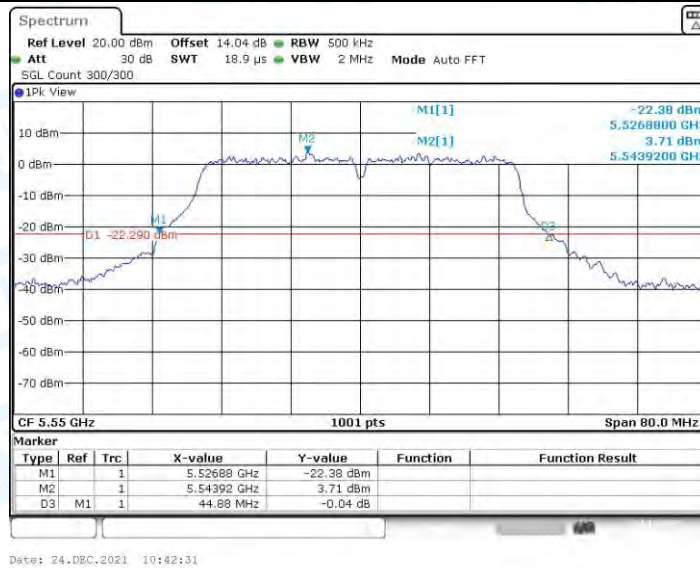
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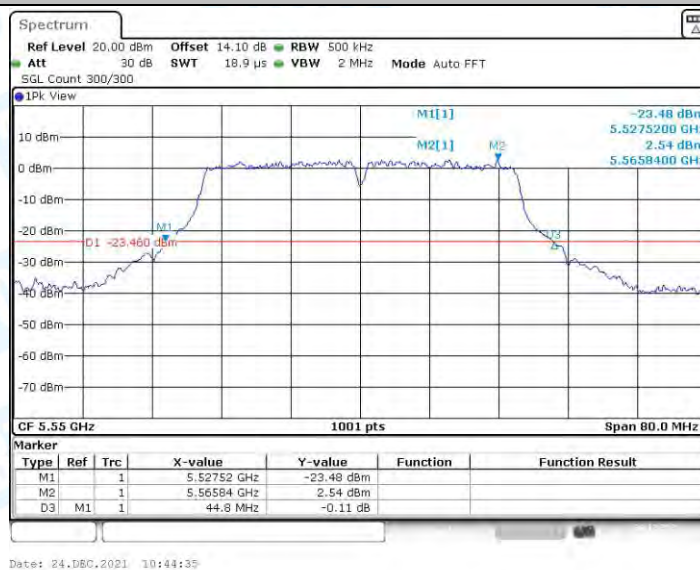
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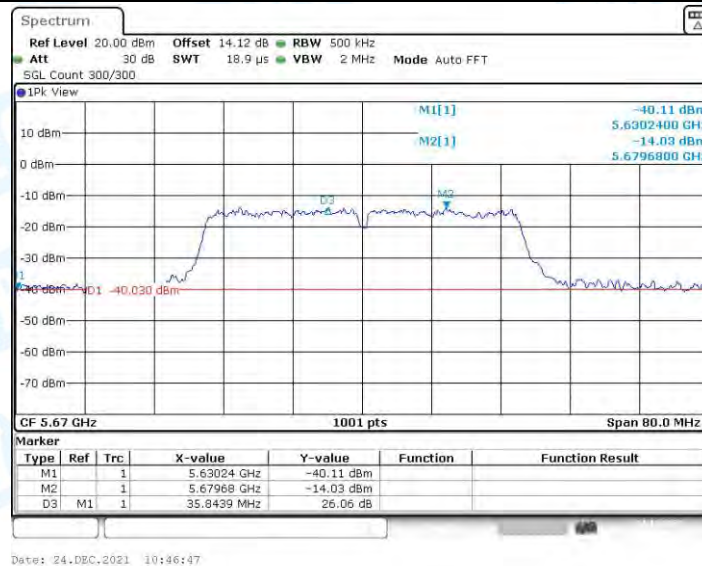
11N40MIMO_Ant1_5550



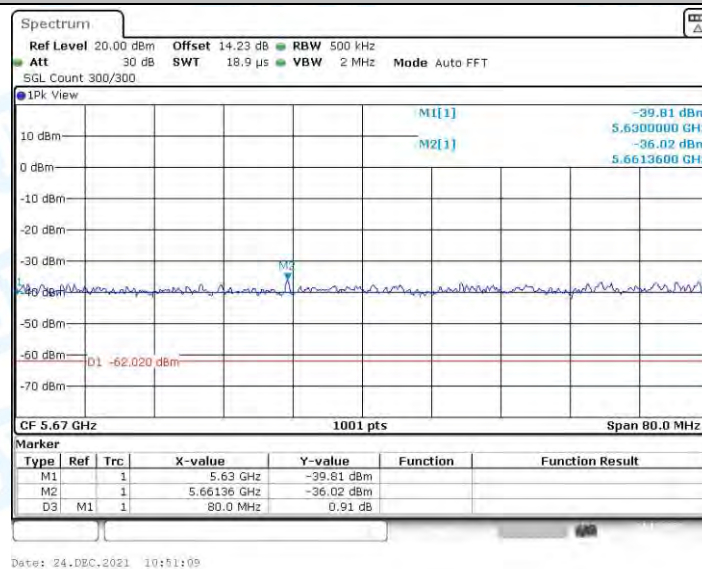
11N40MIMO_Ant2_5550



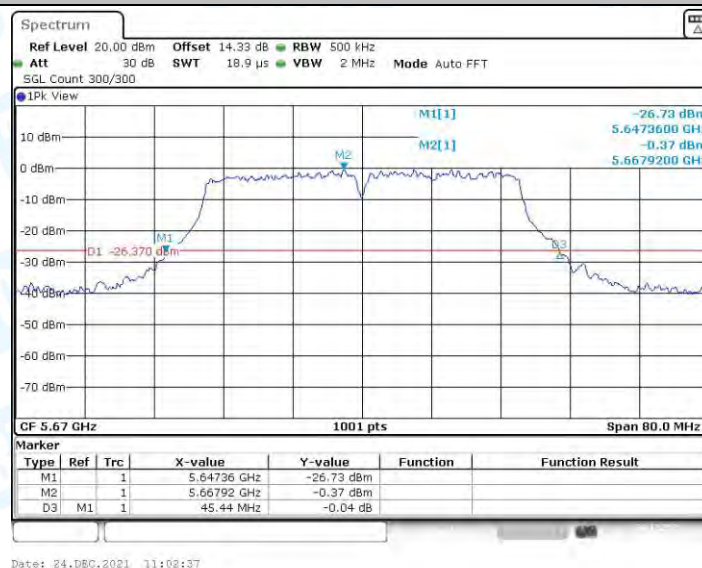
11N40MIMO_Ant3_5550



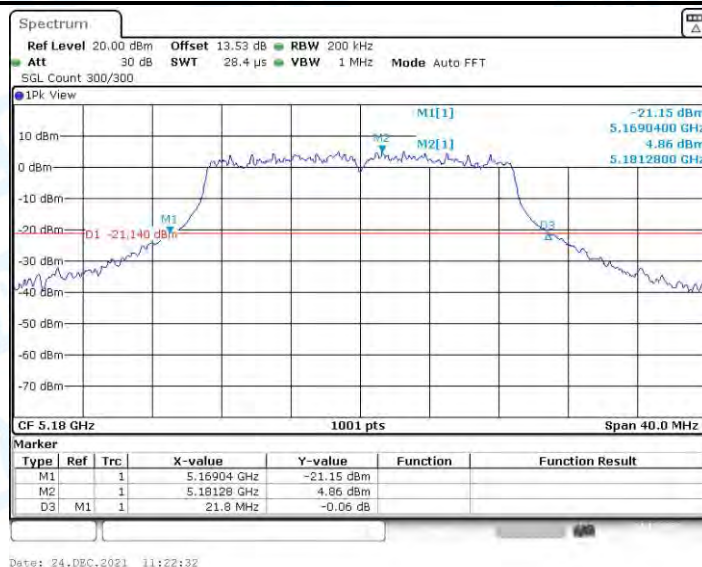
11N40MIMO_Ant1_5670



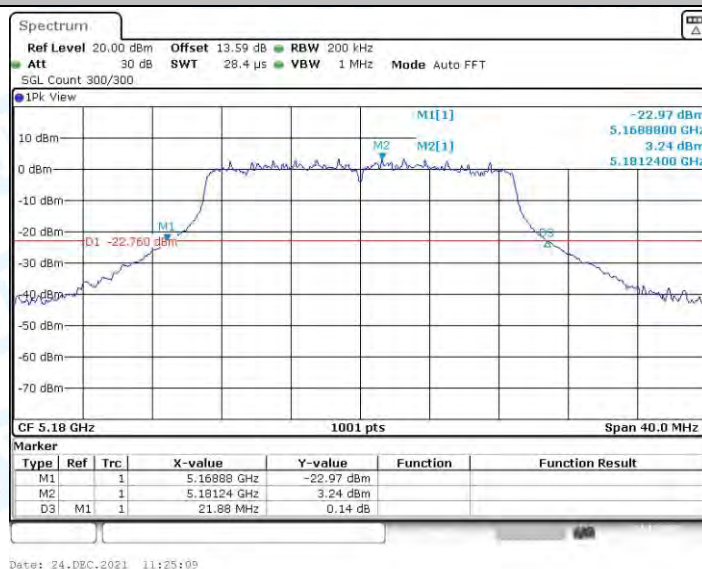
11N40MIMO_Ant2_5670



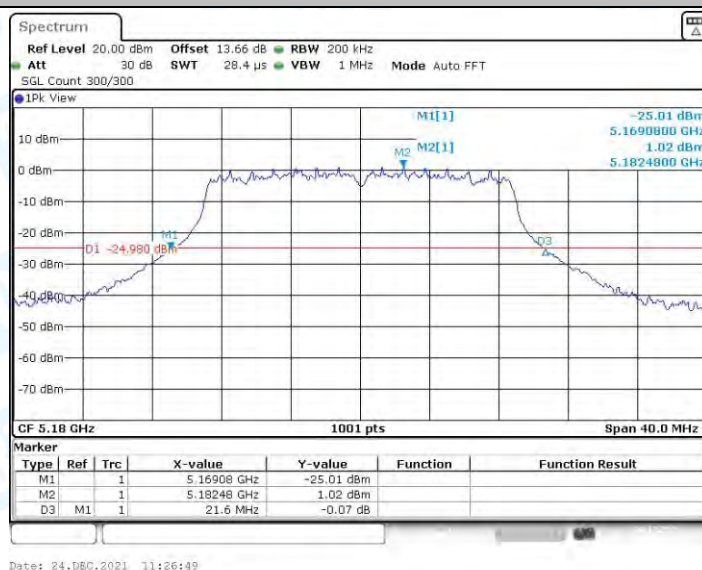
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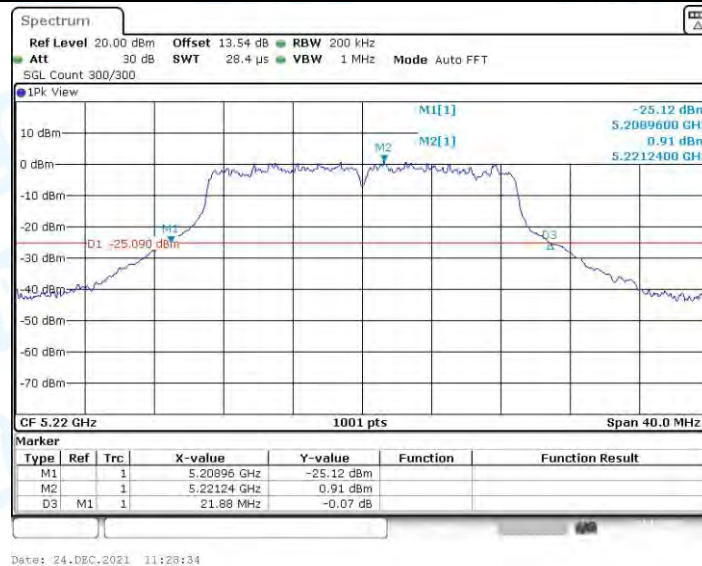
11AC20MIMO_Ant1_5180



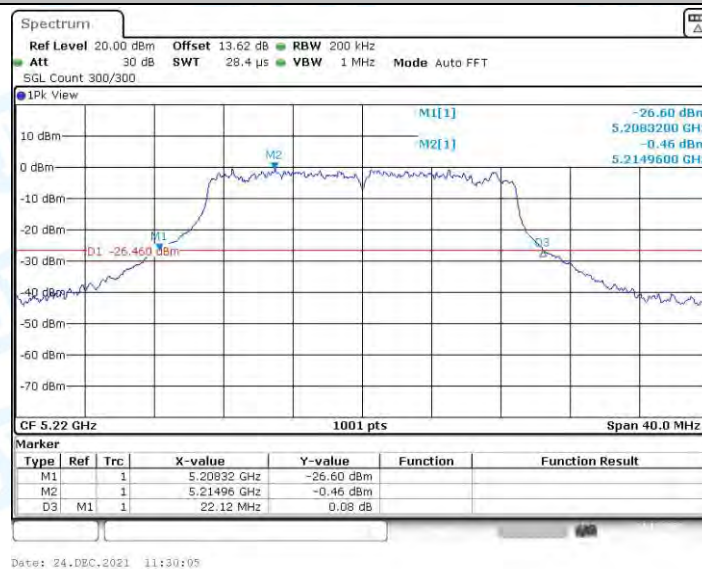
11AC20MIMO_Ant2_5180



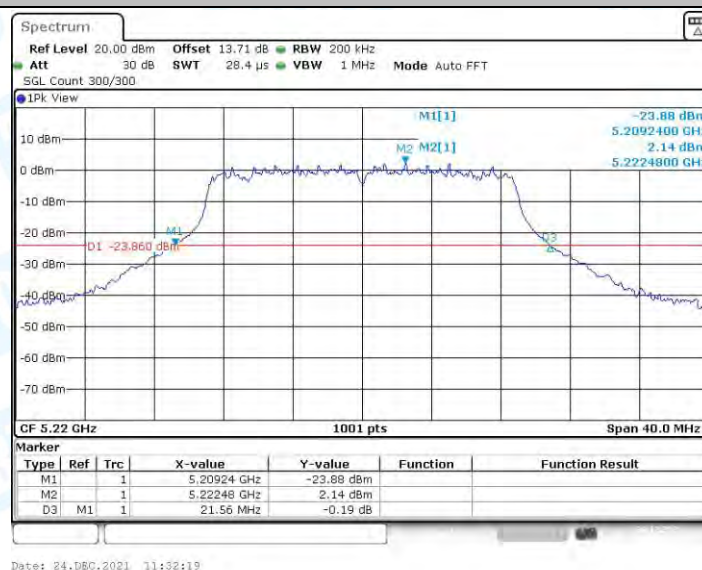
11AC20MIMO_Ant3_5180



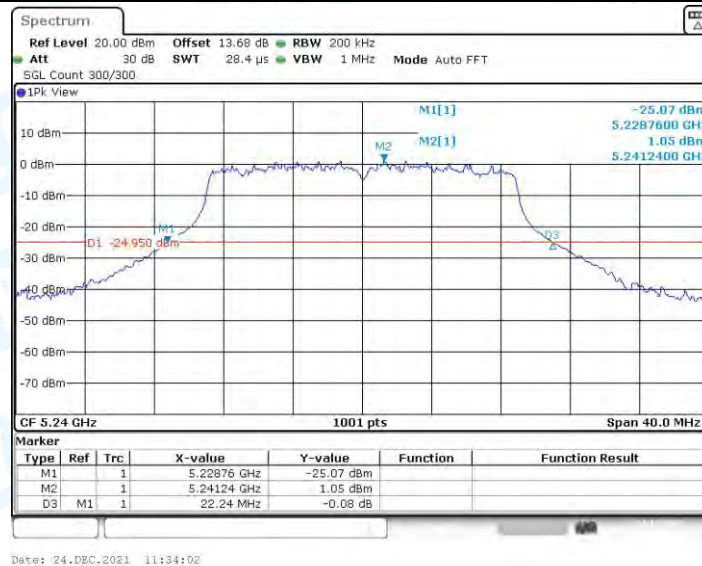
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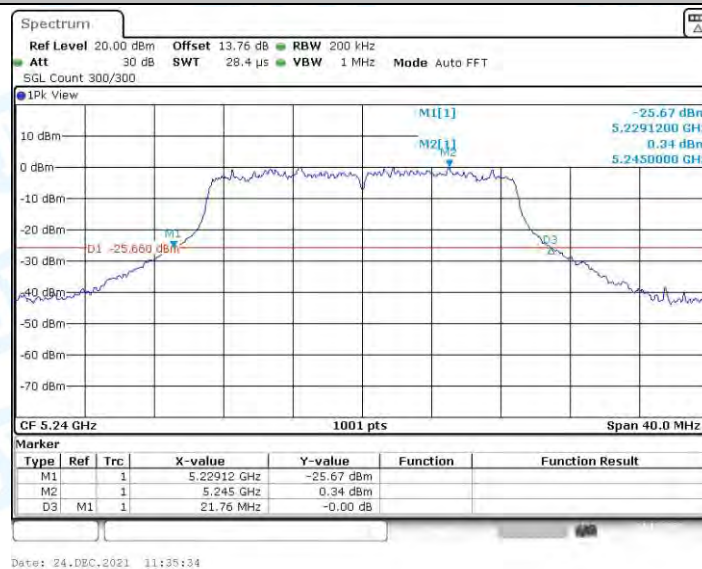
11AC20MIMO_Ant2_5220



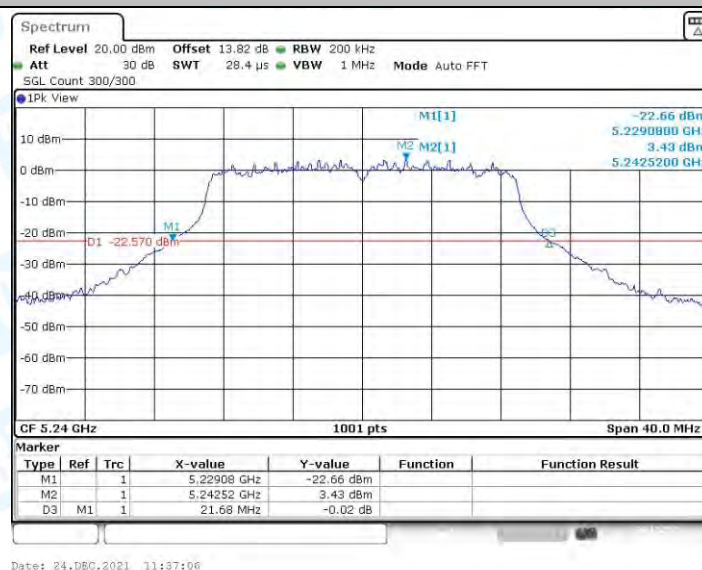
11AC20MIMO_Ant3_5220



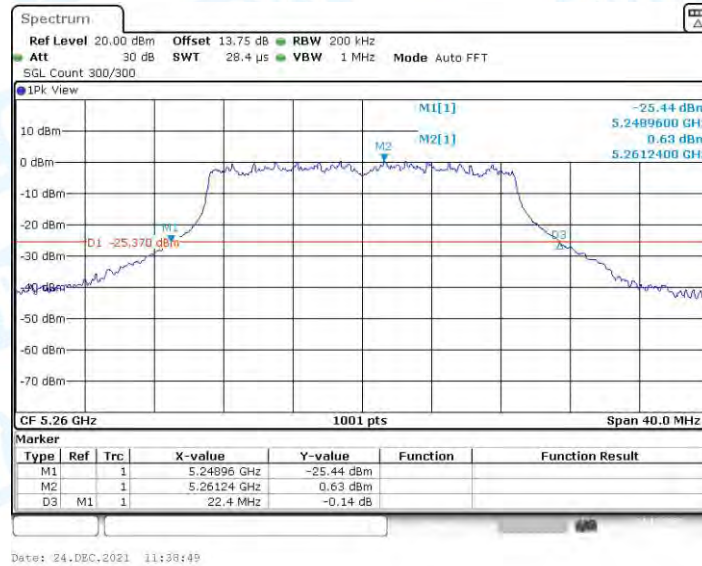
11AC20MIMO_Ant1_5240



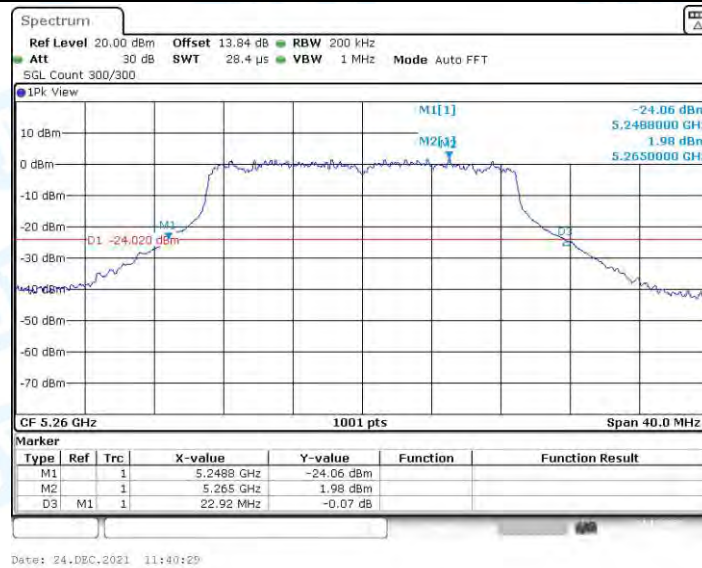
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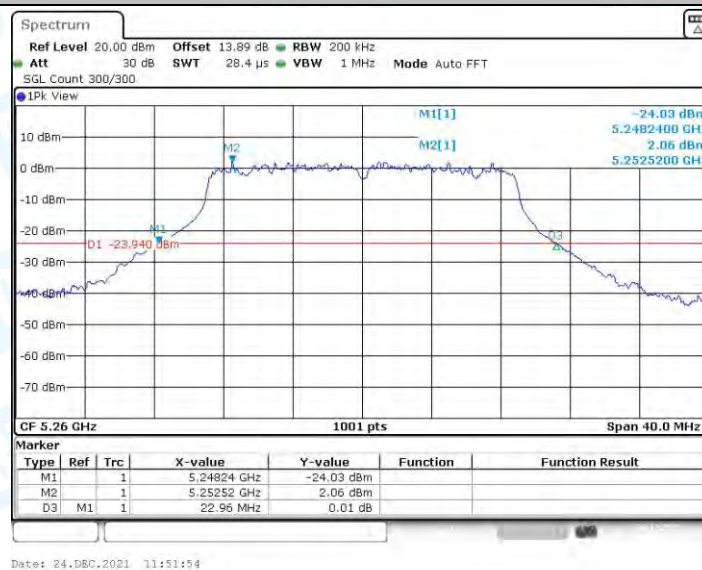
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11AC20MIMO_Ant1_5260



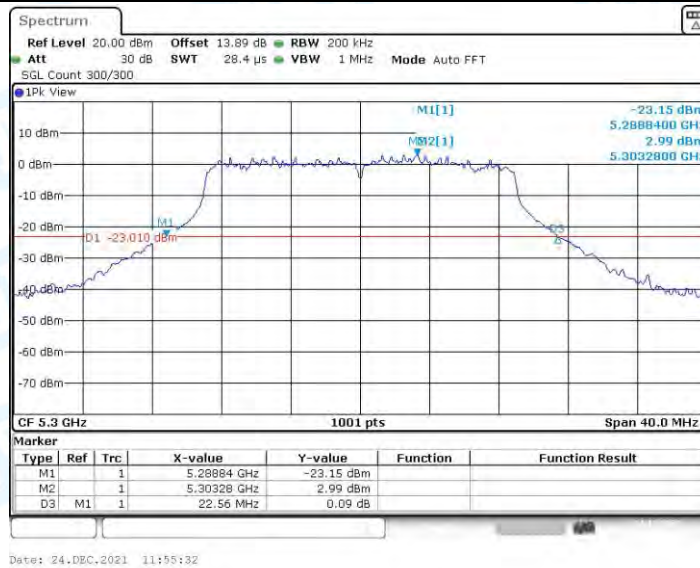
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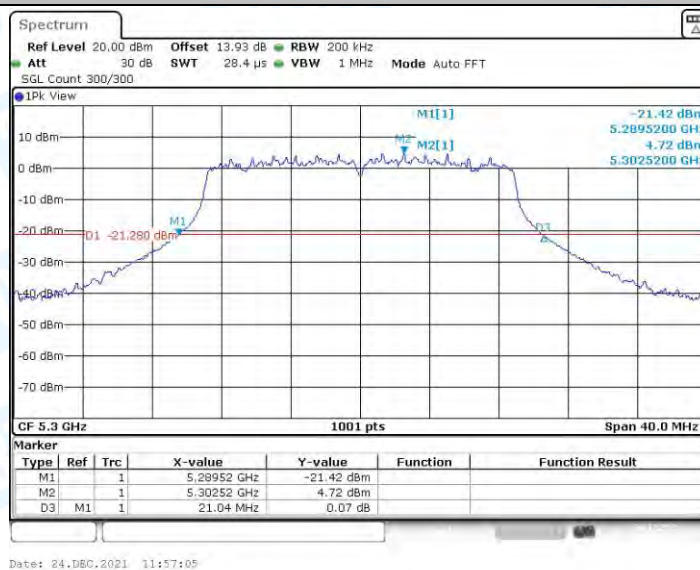
11AC20MIMO_Ant3_5260



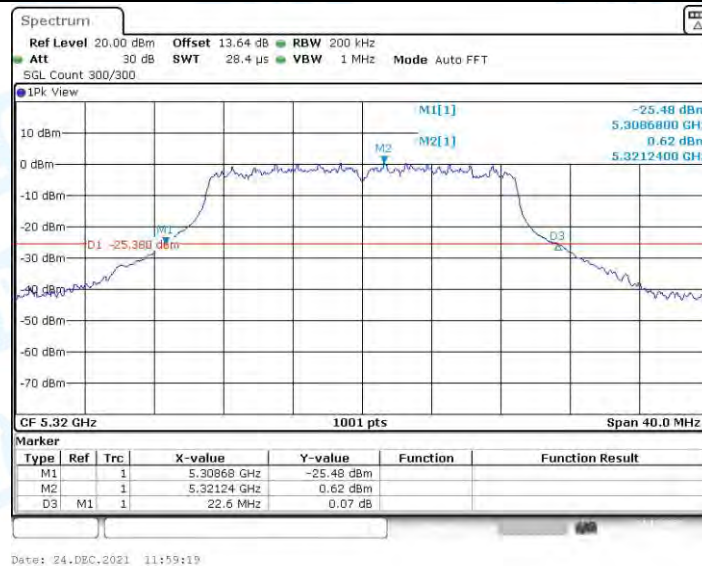
11AC20MIMO_Ant1_5300



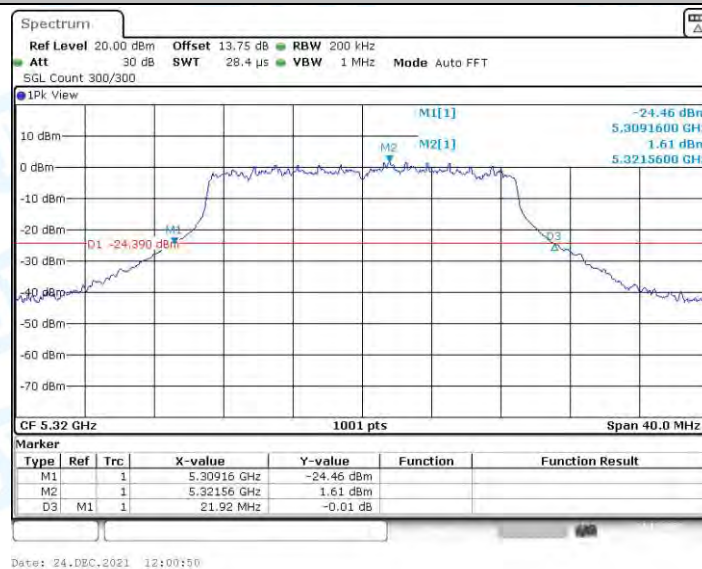
11AC20MIMO_Ant2_5300



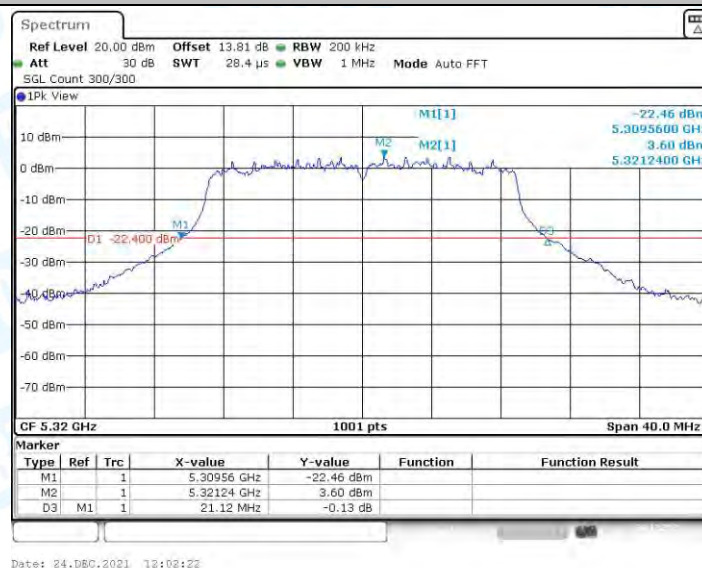
11AC20MIMO_Ant3_5300



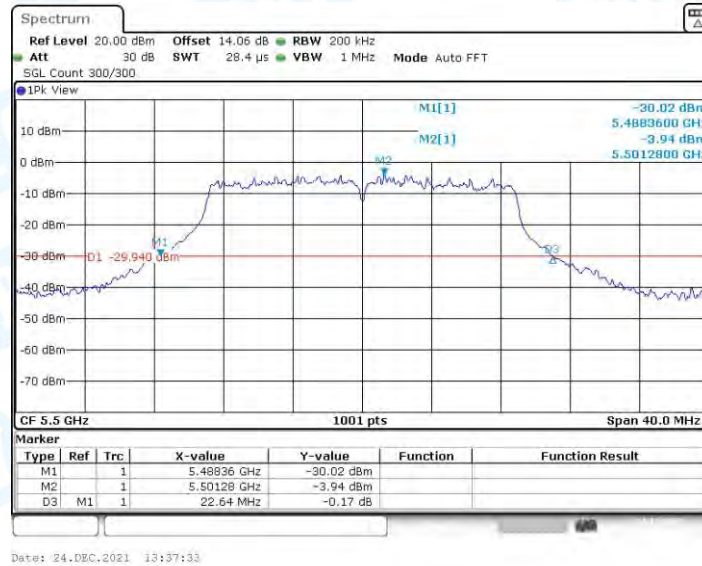
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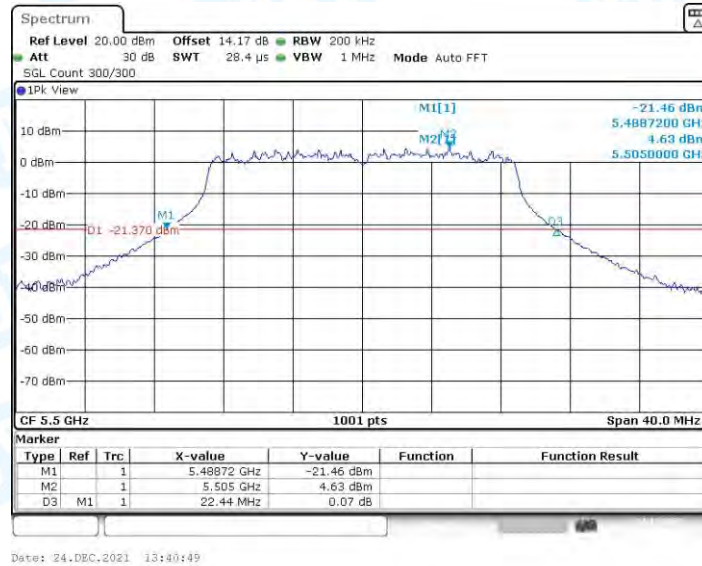
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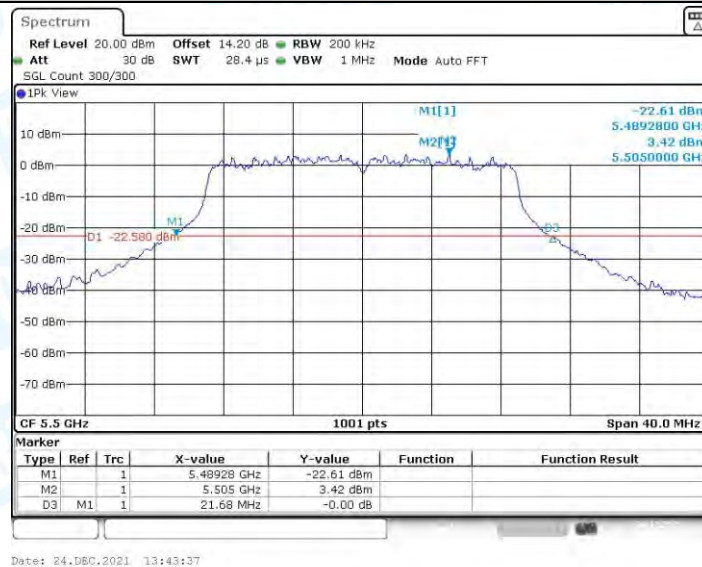
11AC20MIMO_Ant3_5320



11AC20MIMO_Ant1_5500



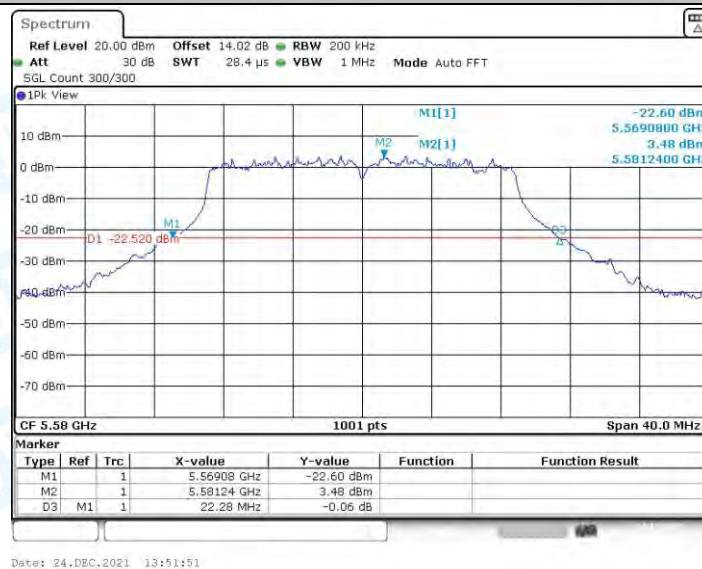
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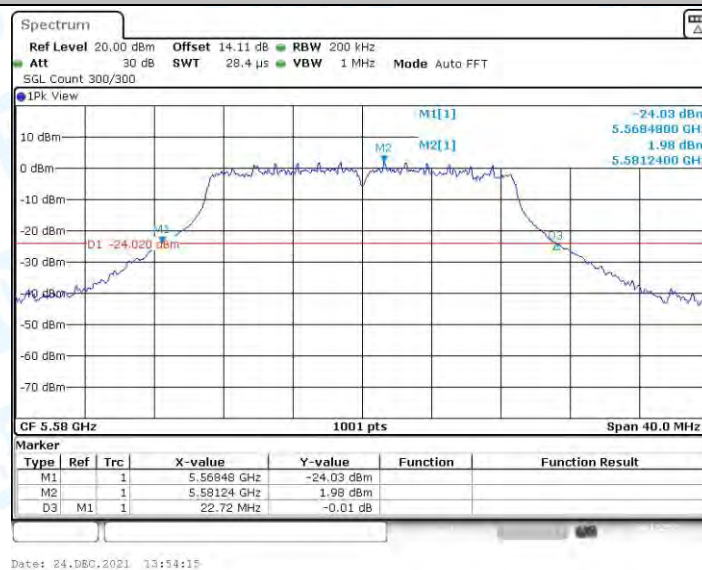
11AC20MIMO_Ant3_5500



11AC20MIMO_Ant1_5580



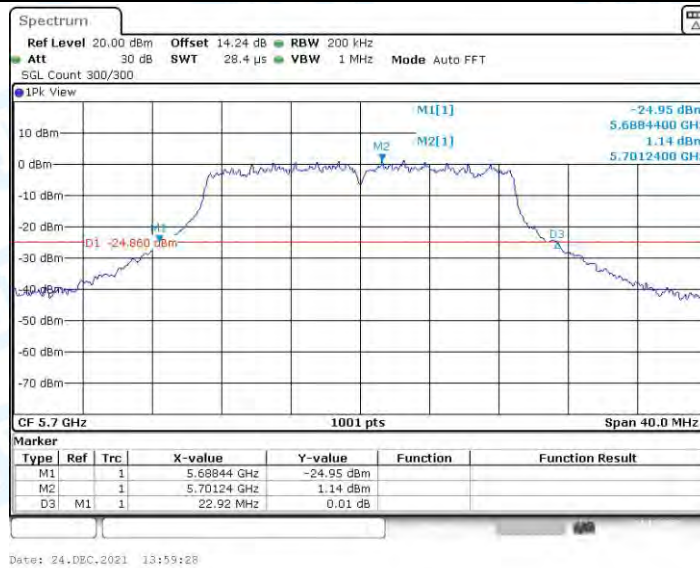
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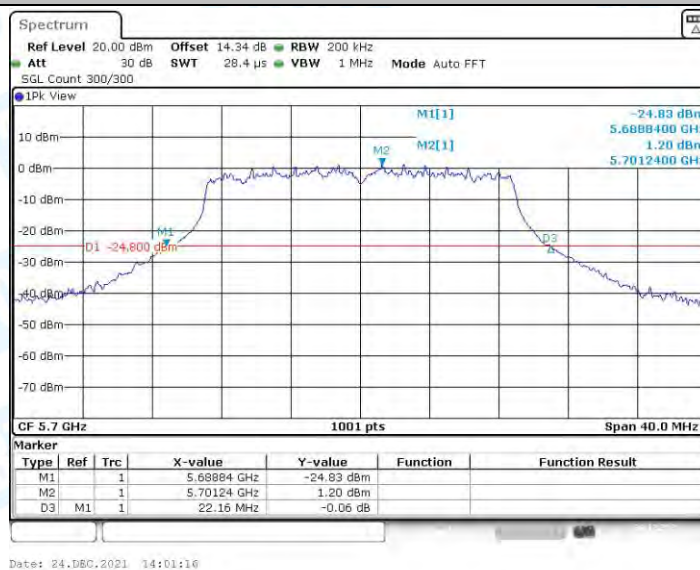
11AC20MIMO_Ant3_5580



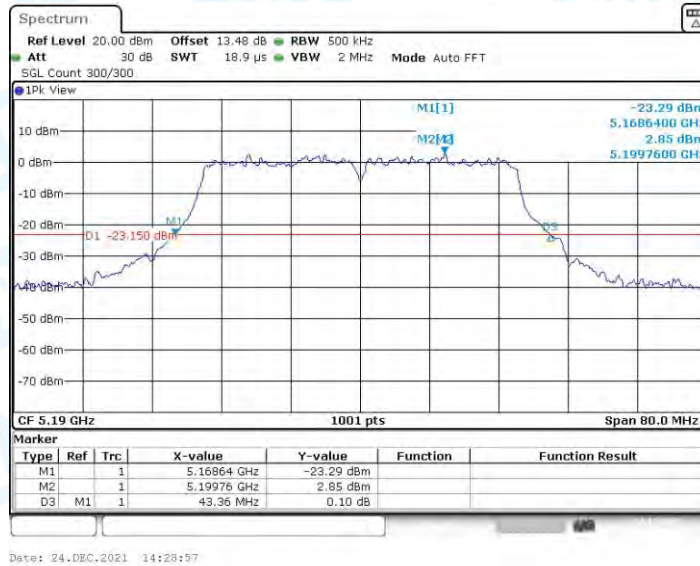
11AC20MIMO_Ant1_5700



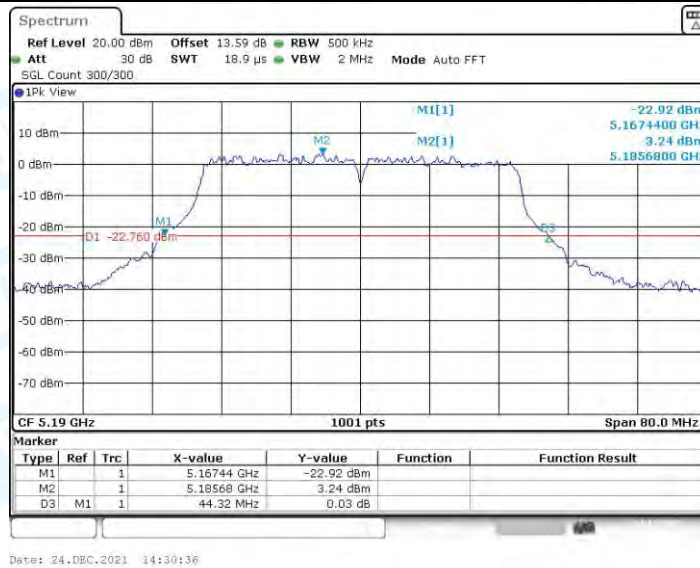
11AC20MIMO_Ant2_5700



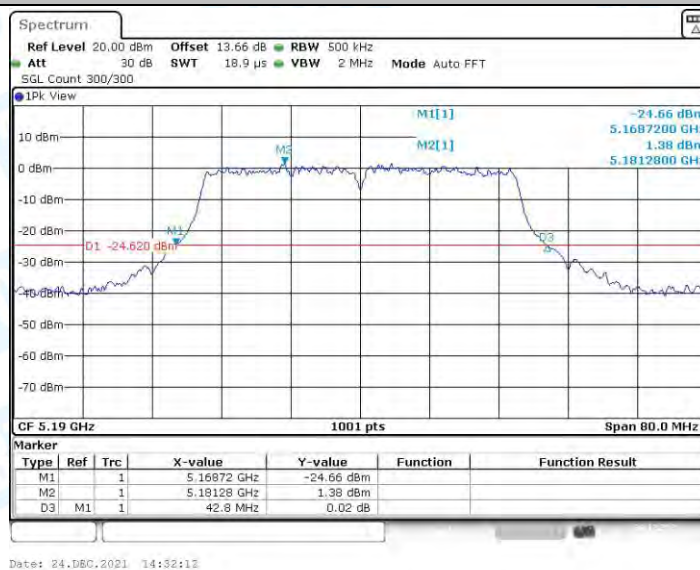
11AC20MIMO_Ant3_5700



11AC40MIMO_Ant1_5190



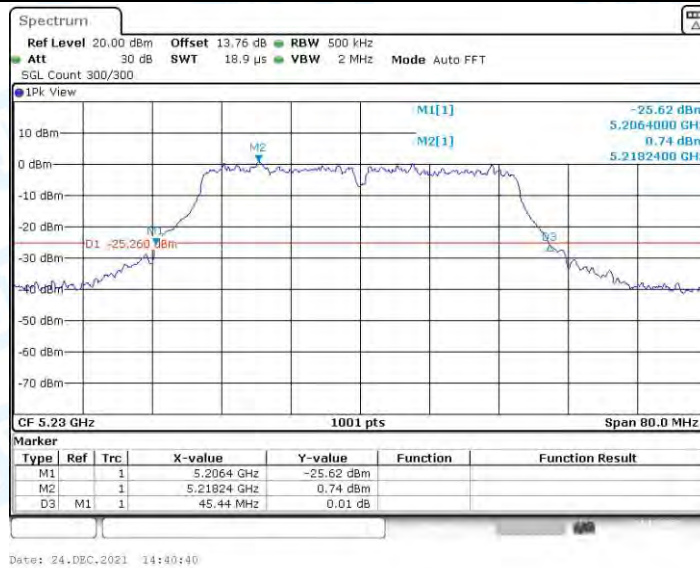
11AC40MIMO_Ant2_5190



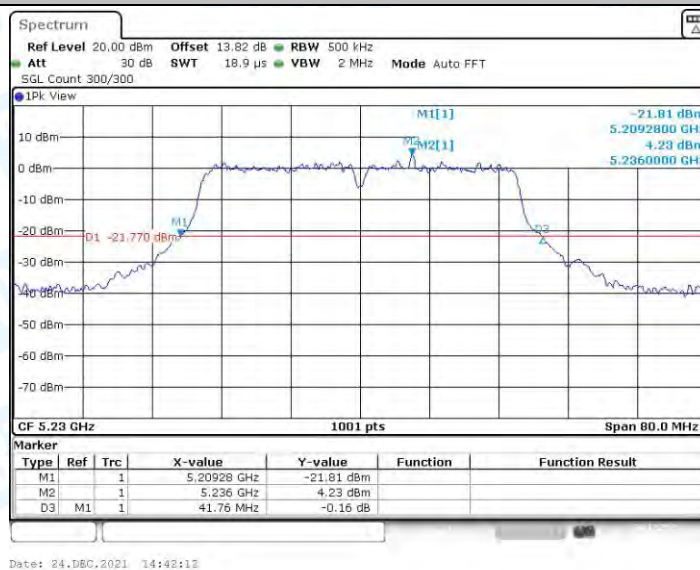
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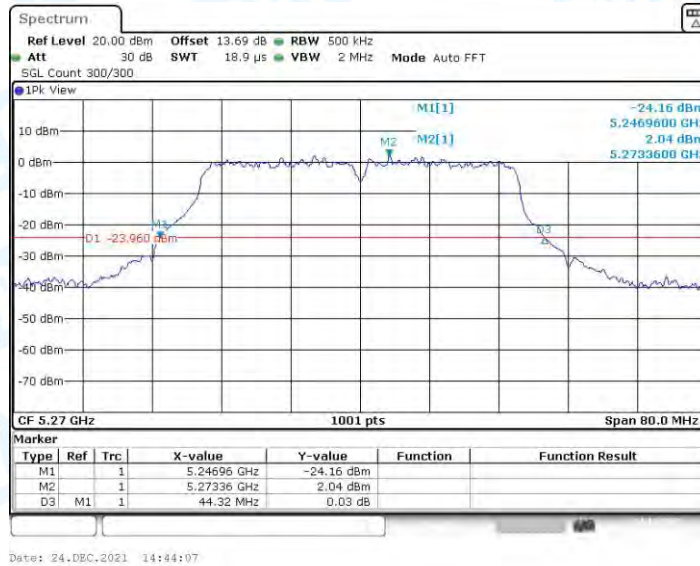
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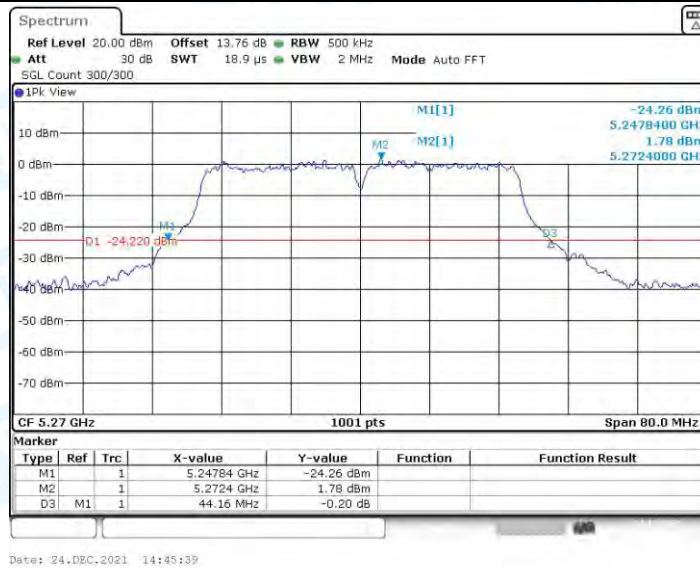
11AC40MIMO_Ant2_5230



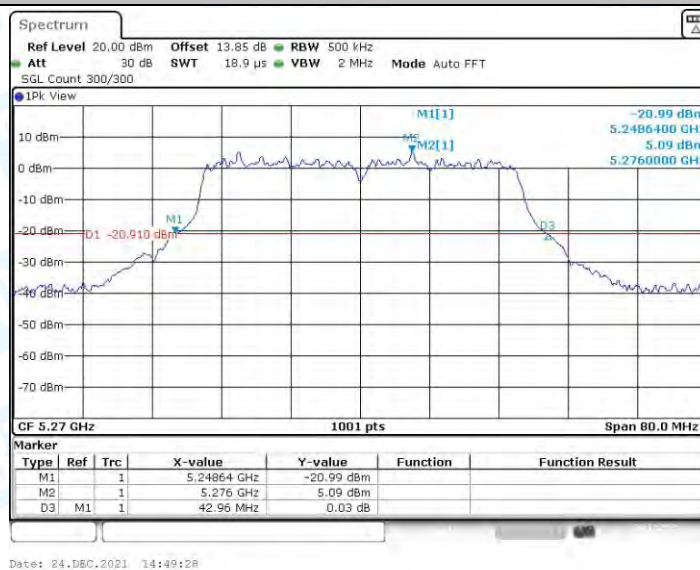
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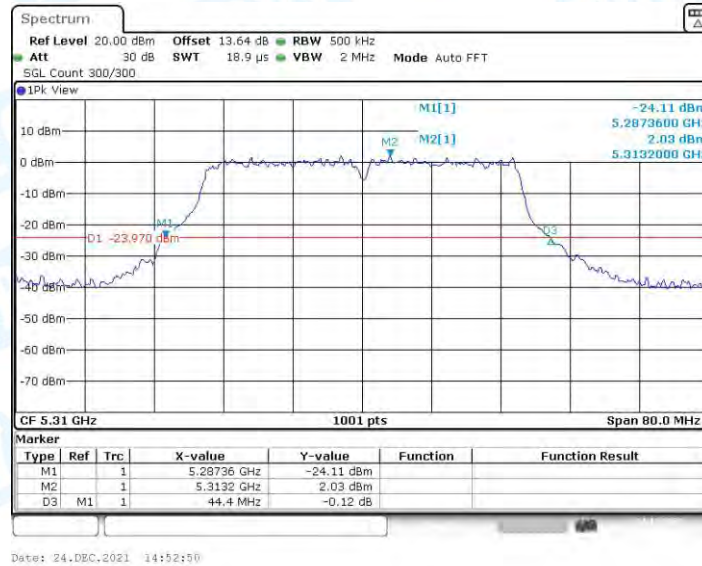
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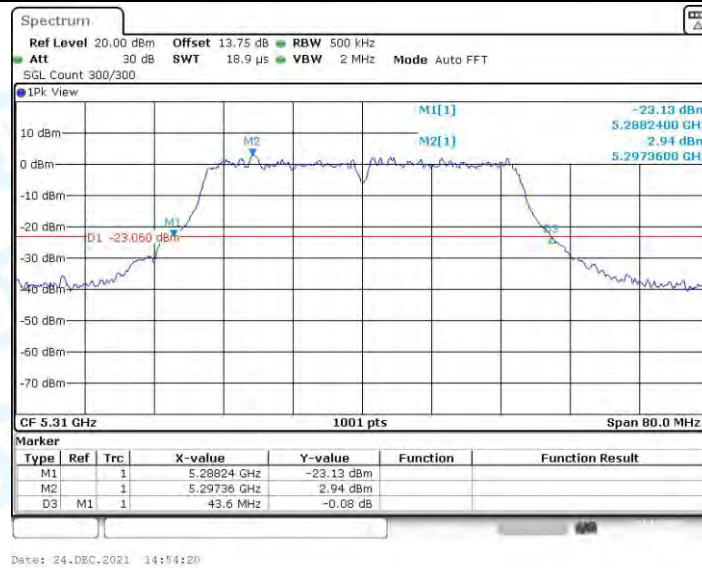
11AC40MIMO_Ant2_5270



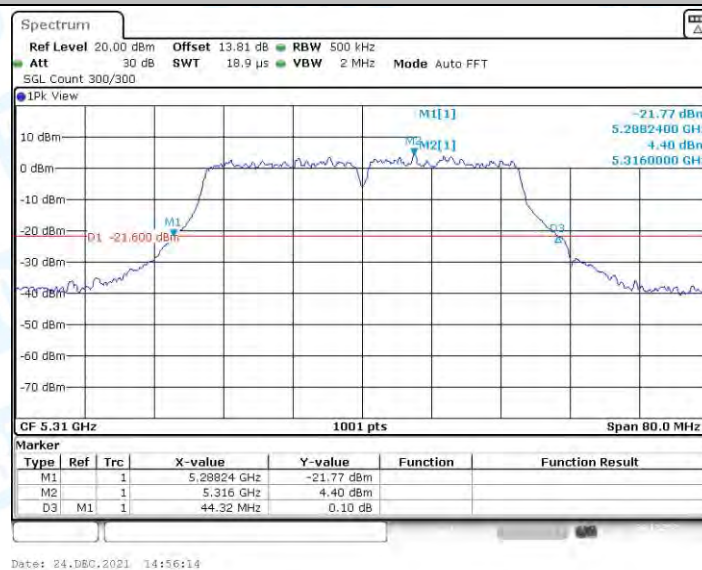
11AC40MIMO_Ant3_5270



11AC40MIMO_Ant1_5310



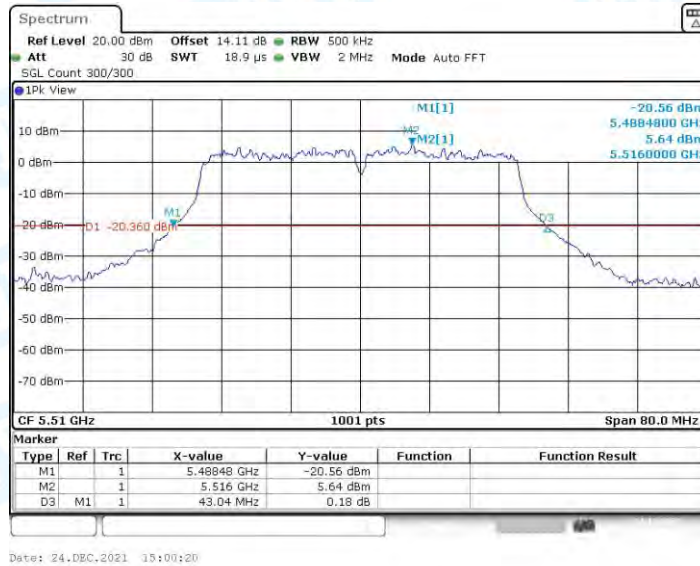
11AC40MIMO_Ant2_5310



11AC40MIMO_Ant3_5310



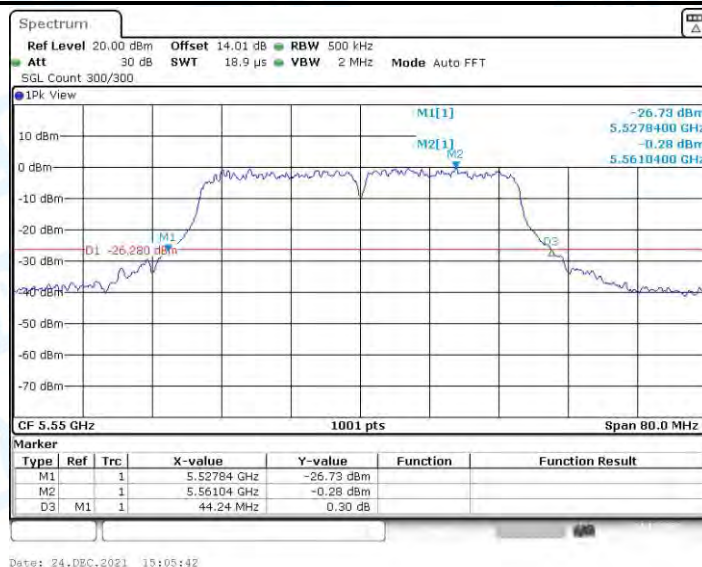
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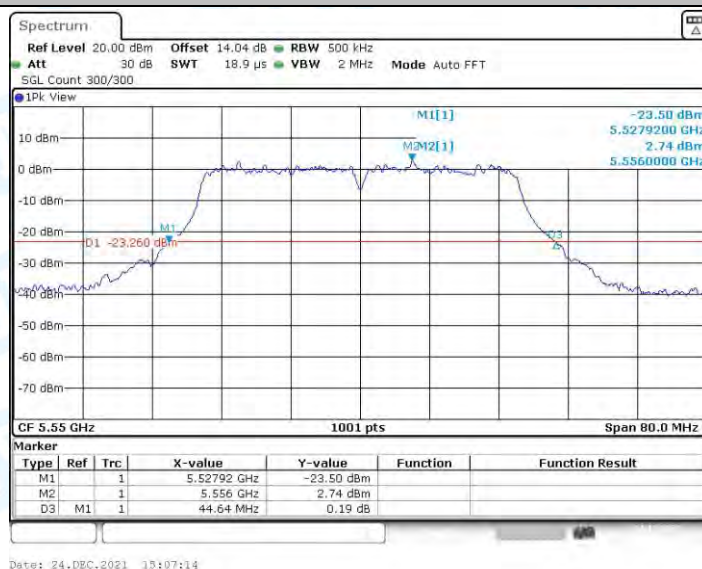
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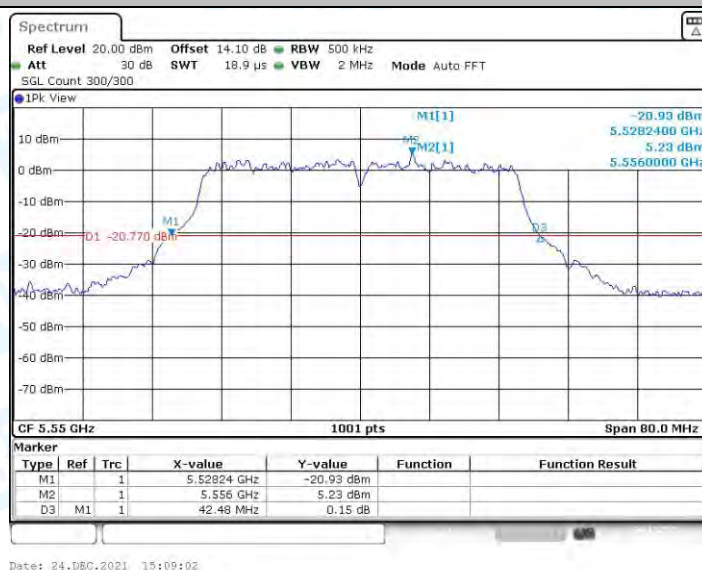
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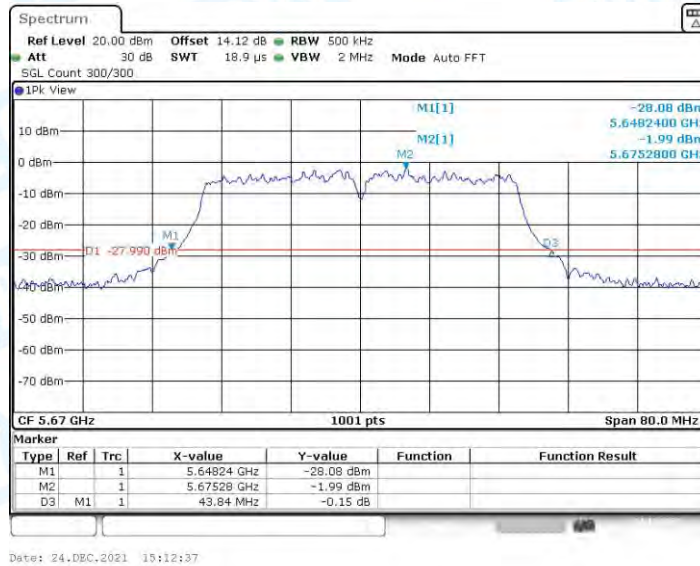
11AC40MIMO_Ant1_5550



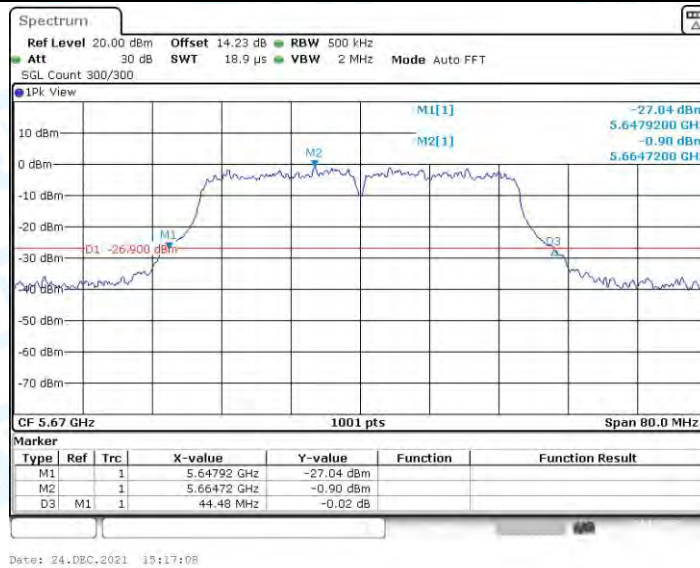
11AC40MIMO_Ant2_5550



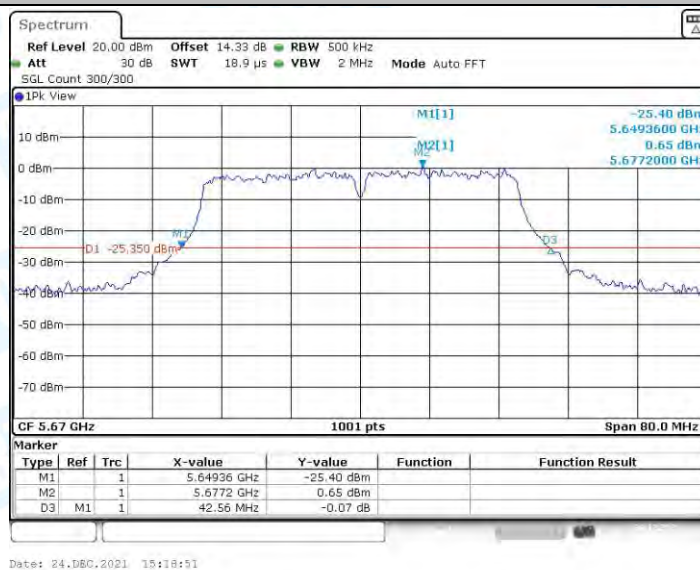
11AC40MIMO_Ant3_5550



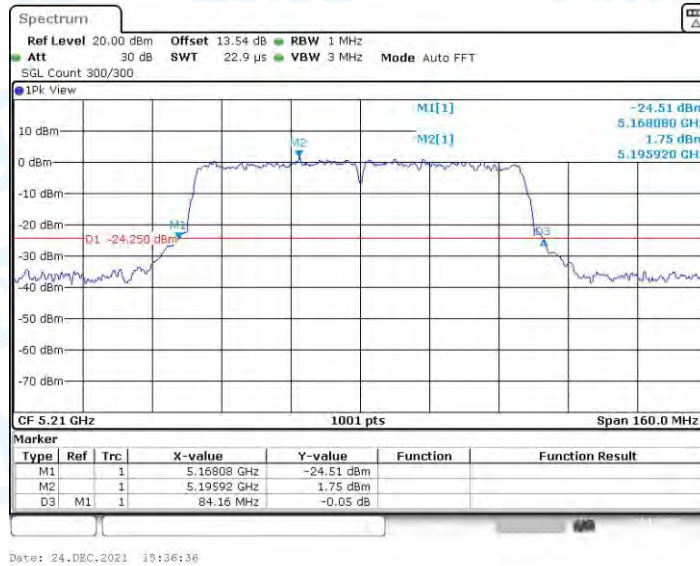
11AC40MIMO_Ant1_5670



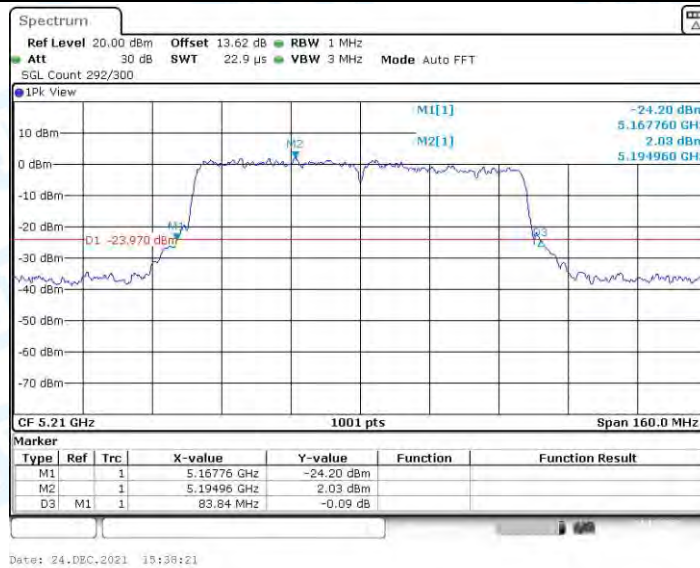
11AC40MIMO_Ant2_5670



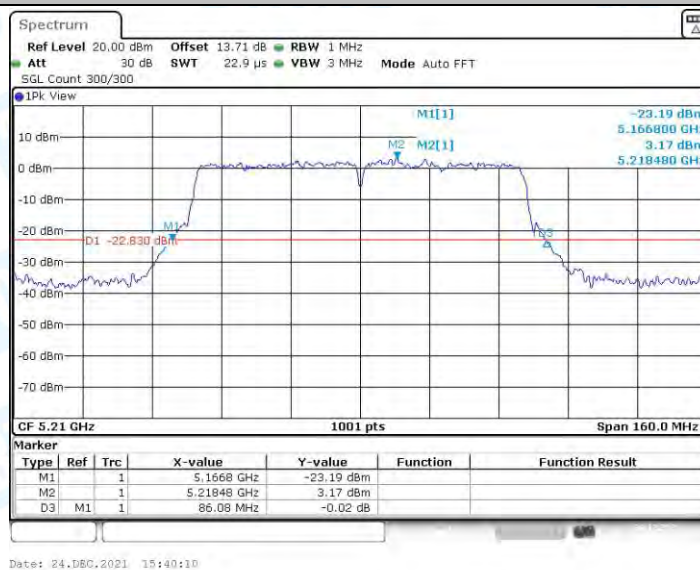
11AC40MIMO_Ant3_5670



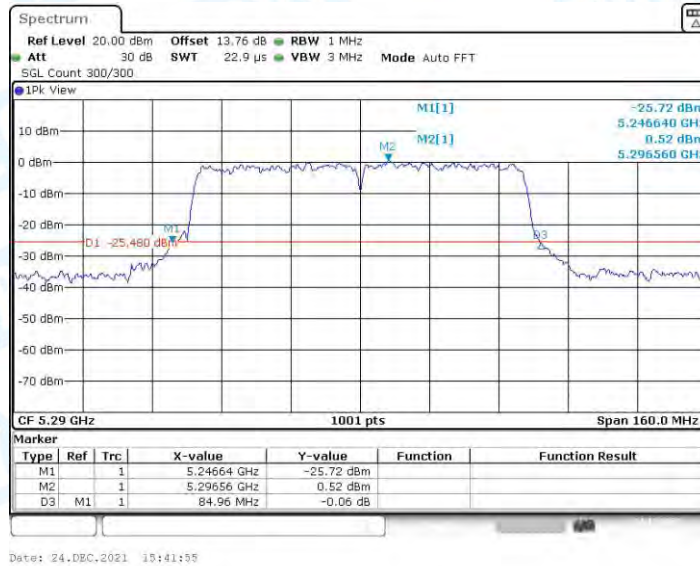
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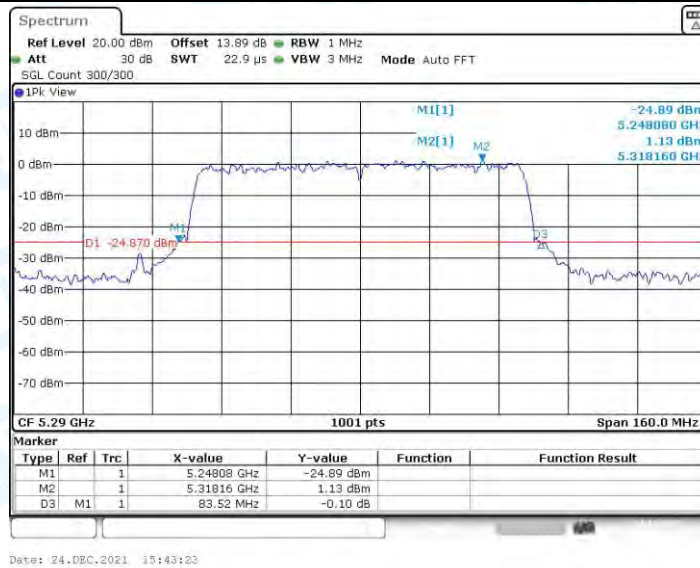
11AC80MIMO_Ant2_5210



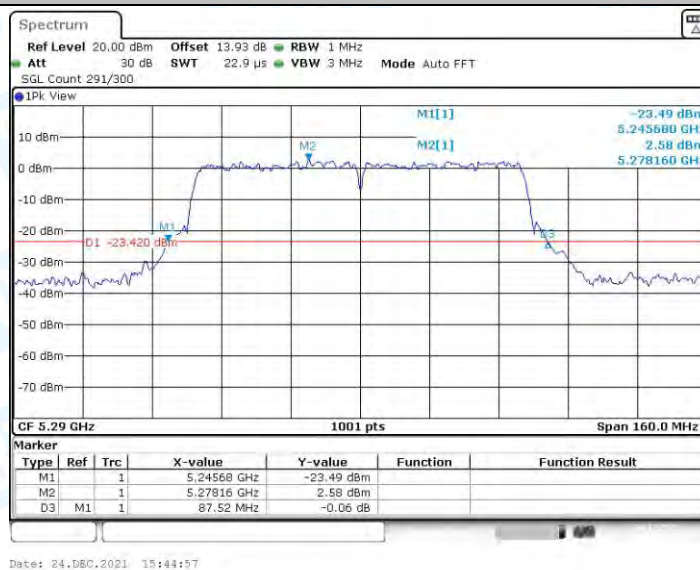
11AC80MIMO_Ant3_5210



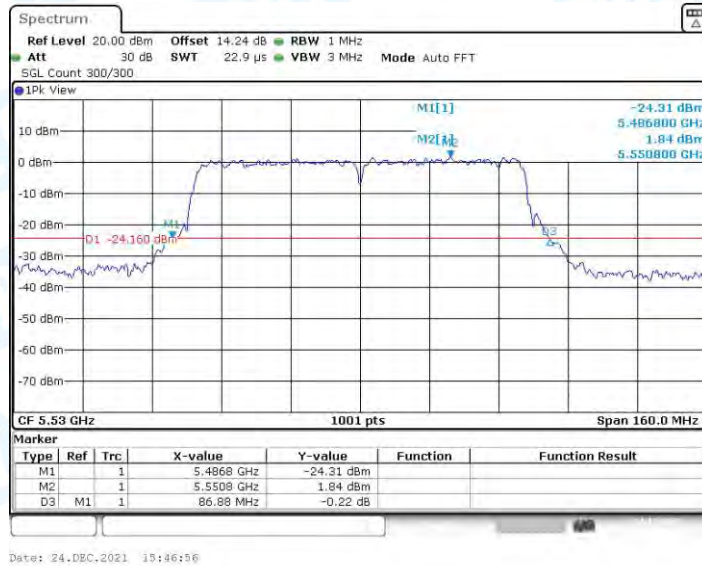
11AC80MIMO_Ant1_5290



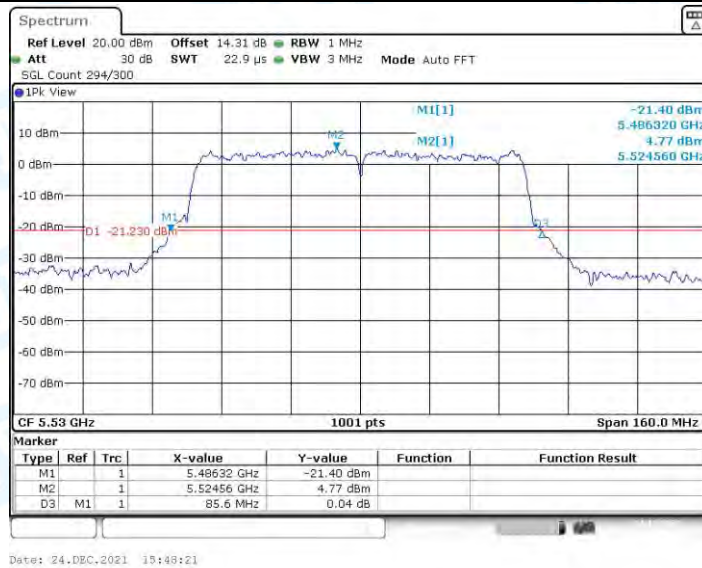
11AC80MIMO_Ant2_5290



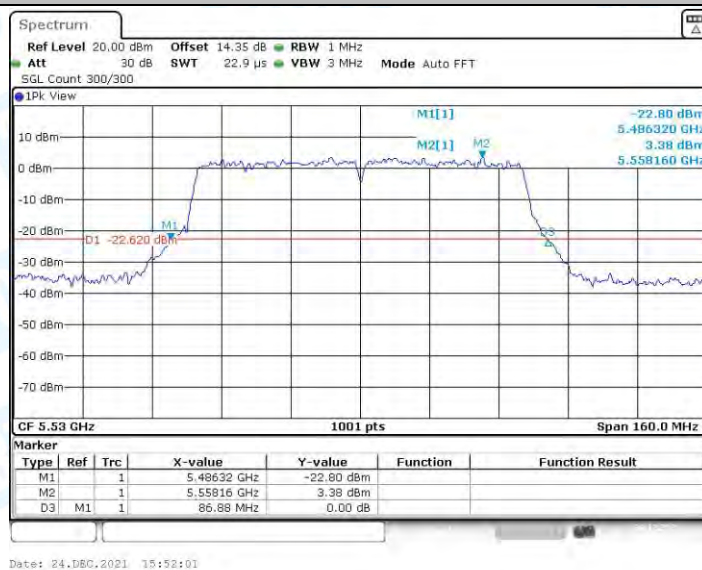
11AC80MIMO_Ant3_5290



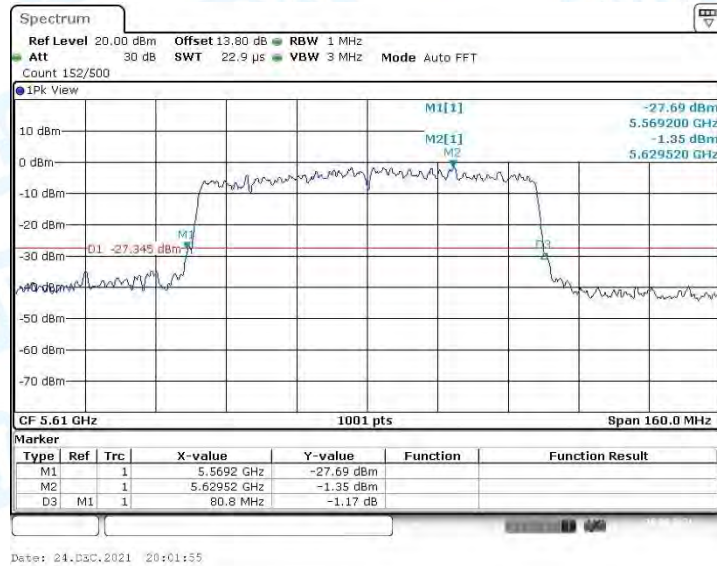
11AC80MIMO_Ant1_5530



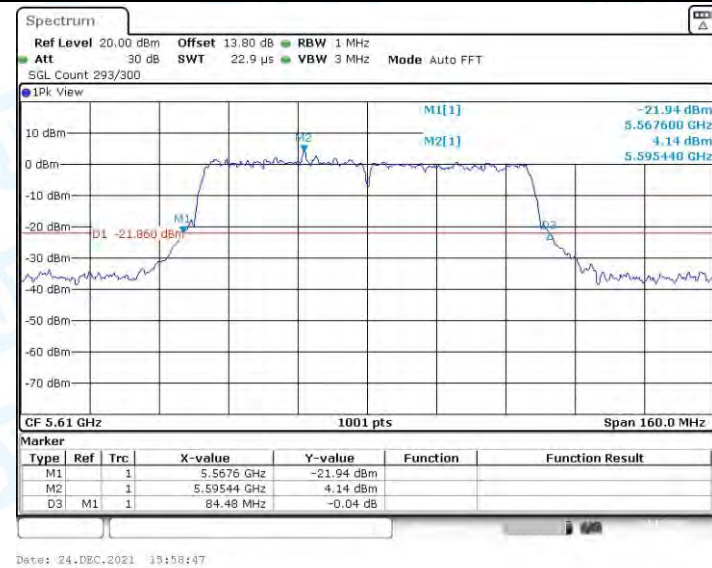
11AC80MIMO_Ant2_5530



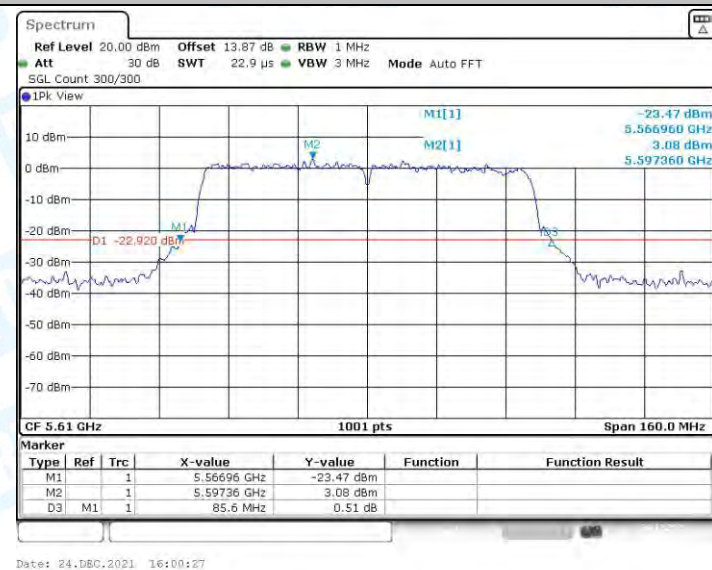
11AC80MIMO_Ant3_5530



11AC80MIMO_Ant1_5610



11AC80MIMO_Ant2_5610



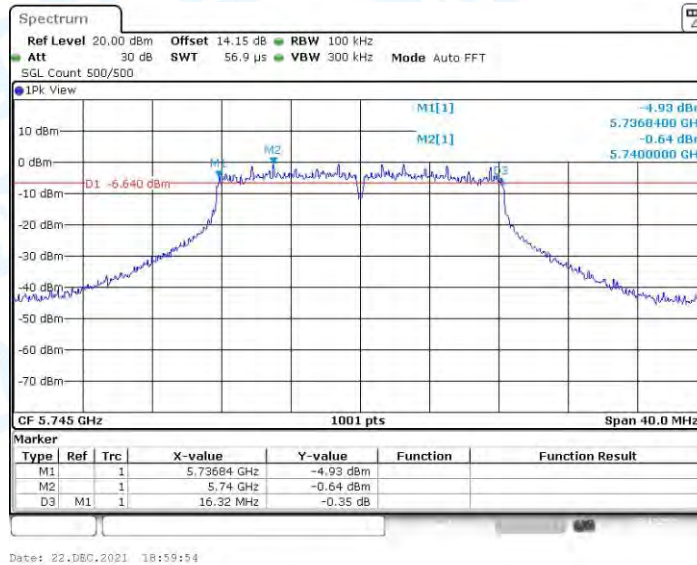
11AC80MIMO_Ant3_5610

2. Min emission bandwidth

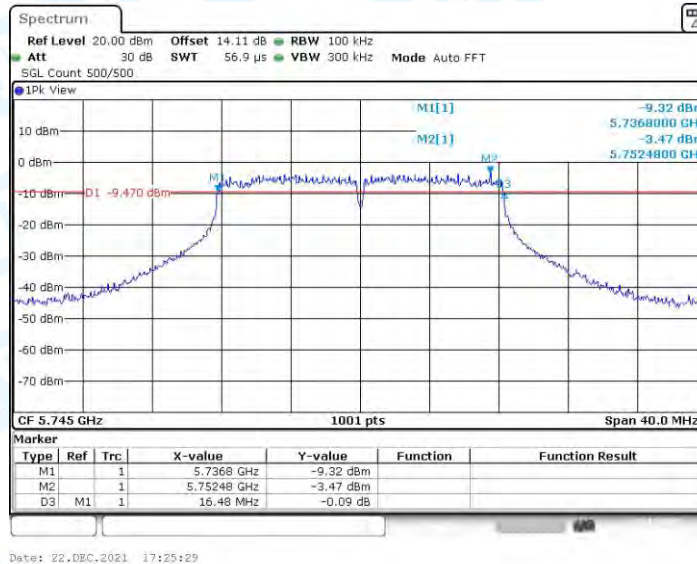
2.1. Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.32	5736.84	5753.16	0.5	PASS
	Ant2	5745	16.48	5736.80	5753.28	0.5	PASS
	Ant3	5745	16.56	5736.72	5753.28	0.5	PASS
	Ant1	5785	16.40	5776.80	5793.20	0.5	PASS
	Ant2	5785	16.32	5776.84	5793.16	0.5	PASS
	Ant3	5785	16.32	5776.84	5793.16	0.5	PASS
	Ant1	5825	16.32	5816.84	5833.16	0.5	PASS
	Ant2	5825	16.36	5816.80	5833.16	0.5	PASS
	Ant3	5825	16.36	5816.80	5833.16	0.5	PASS
11N20MIMO	Ant1	5745	17.64	5736.16	5753.80	0.5	PASS
	Ant2	5745	17.60	5736.20	5753.80	0.5	PASS
	Ant3	5745	17.60	5736.20	5753.80	0.5	PASS
	Ant1	5785	17.56	5776.20	5793.76	0.5	PASS
	Ant2	5785	17.60	5776.20	5793.80	0.5	PASS
	Ant3	5785	17.60	5776.20	5793.80	0.5	PASS
	Ant1	5825	17.60	5816.20	5833.80	0.5	PASS
	Ant2	5825	17.60	5816.20	5833.80	0.5	PASS
	Ant3	5825	17.60	5816.20	5833.80	0.5	PASS
11N40MIMO	Ant1	5755	36.32	5736.84	5773.16	0.5	PASS
	Ant2	5755	36.08	5737.08	5773.16	0.5	PASS
	Ant3	5755	36.32	5736.84	5773.16	0.5	PASS
	Ant1	5795	35.92	5777.24	5813.16	0.5	PASS
	Ant2	5795	36.32	5776.84	5813.16	0.5	PASS
	Ant3	5795	36.08	5776.84	5812.92	0.5	PASS
11AC20MIMO	Ant1	5745	17.64	5736.16	5753.80	0.5	PASS
	Ant2	5745	17.68	5736.16	5753.84	0.5	PASS
	Ant3	5745	17.64	5736.20	5753.84	0.5	PASS
	Ant1	5785	17.68	5776.16	5793.84	0.5	PASS
	Ant2	5785	17.64	5776.16	5793.80	0.5	PASS
	Ant3	5785	17.68	5776.16	5793.84	0.5	PASS
	Ant1	5825	17.72	5816.12	5833.84	0.5	PASS
	Ant2	5825	17.72	5816.12	5833.84	0.5	PASS
	Ant3	5825	17.64	5816.16	5833.80	0.5	PASS
11AC40MIMO	Ant1	5755	35.36	5737.16	5772.52	0.5	PASS
	Ant2	5755	35.60	5737.16	5772.76	0.5	PASS
	Ant3	5755	35.60	5737.16	5772.76	0.5	PASS
	Ant1	5795	36.40	5776.84	5813.24	0.5	PASS
	Ant2	5795	35.20	5777.40	5812.60	0.5	PASS
	Ant3	5795	35.44	5777.16	5812.60	0.5	PASS
11AC80MIMO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS
	Ant2	5775	75.20	5737.40	5812.60	0.5	PASS
	Ant3	5775	75.20	5737.40	5812.60	0.5	PASS

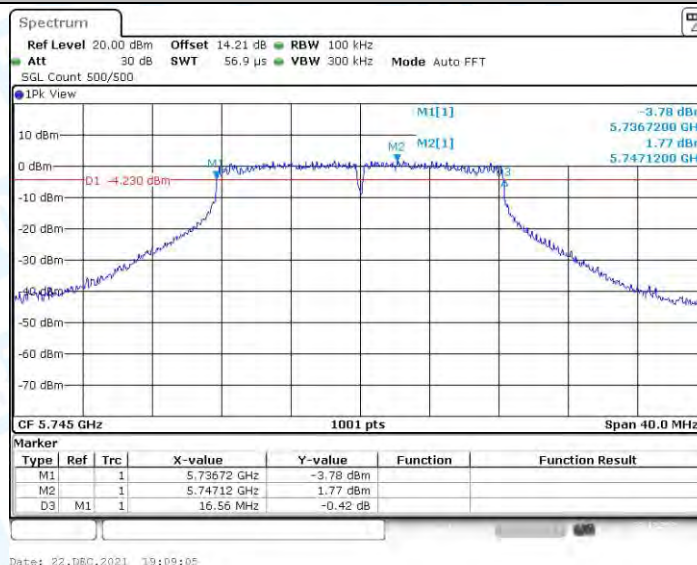
2.2. Test Graphs



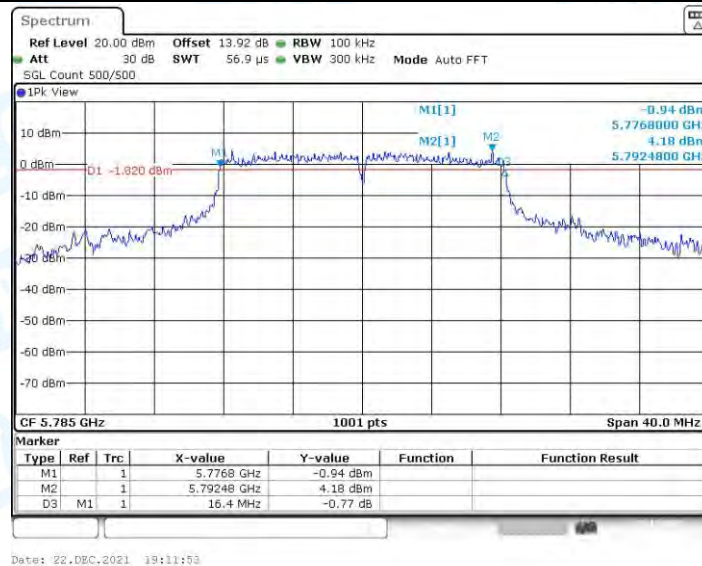
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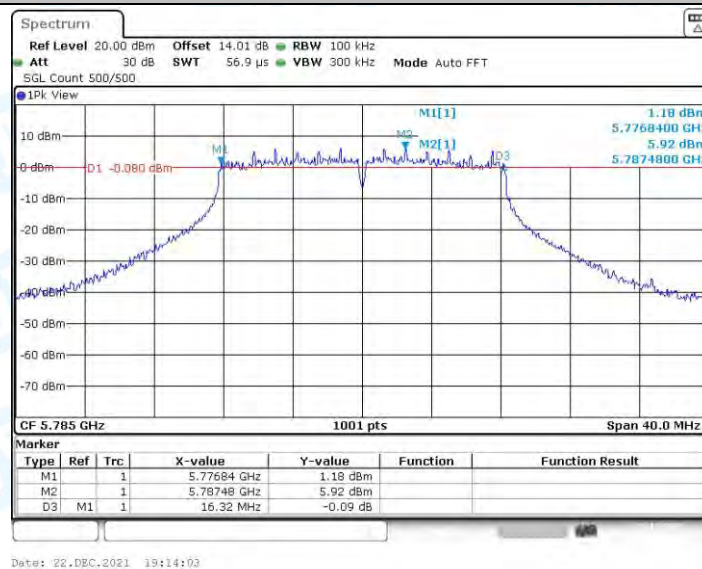
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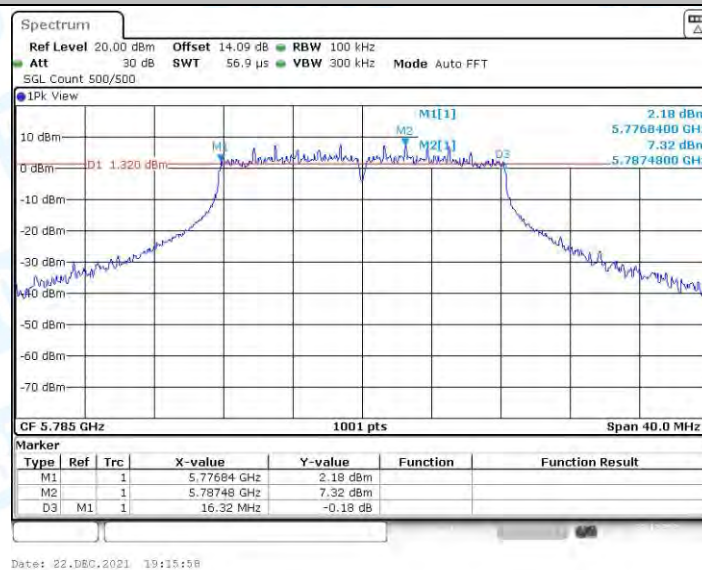
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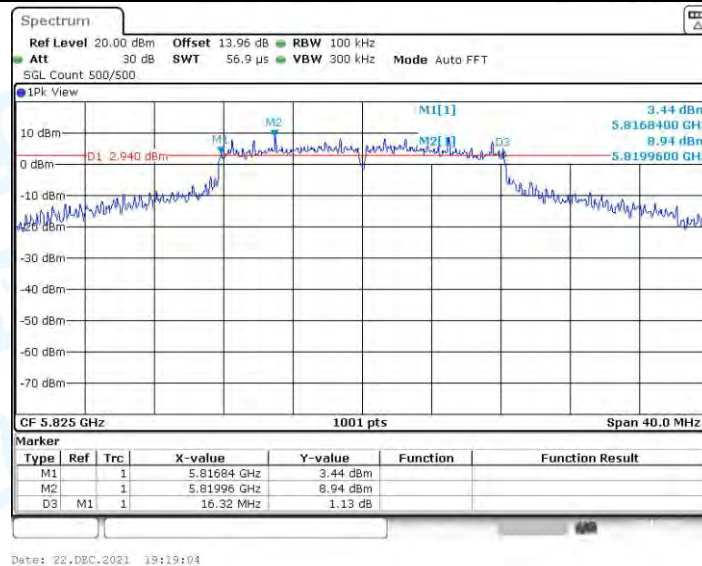
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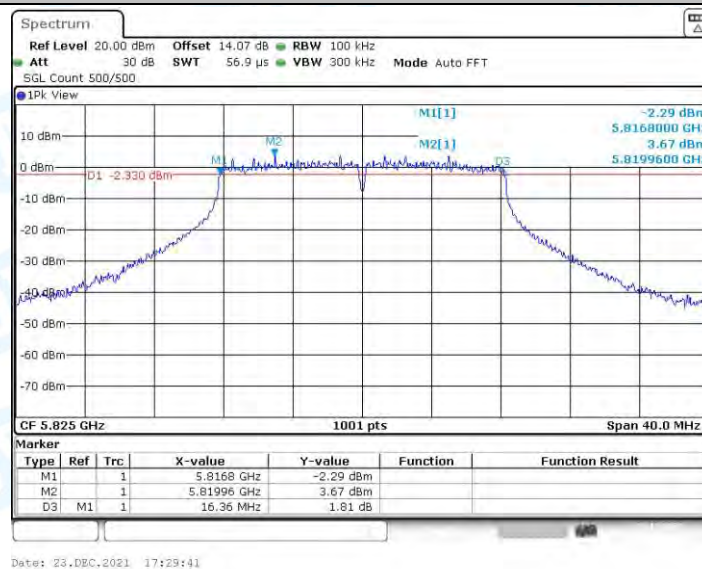
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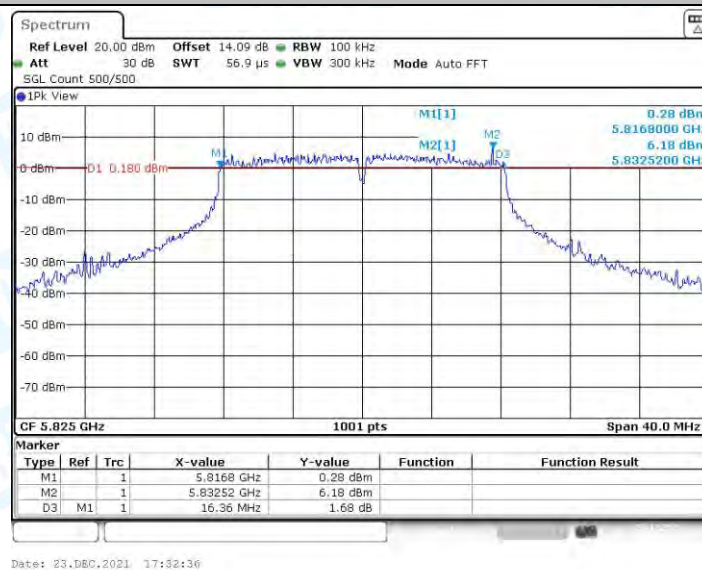
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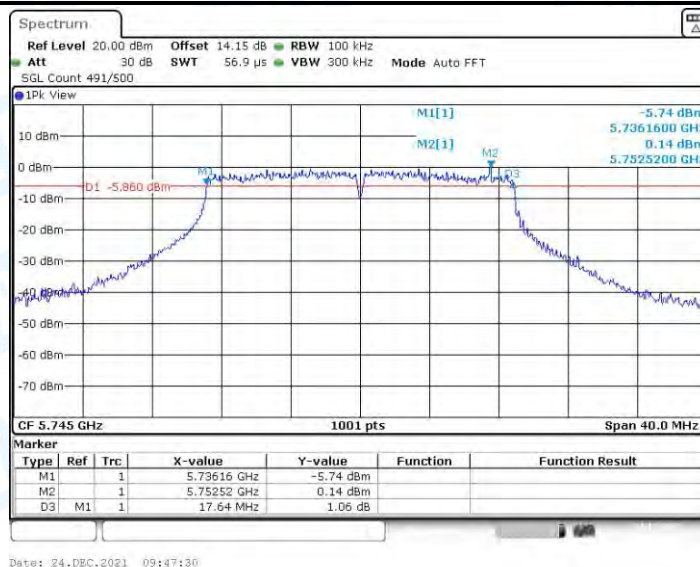
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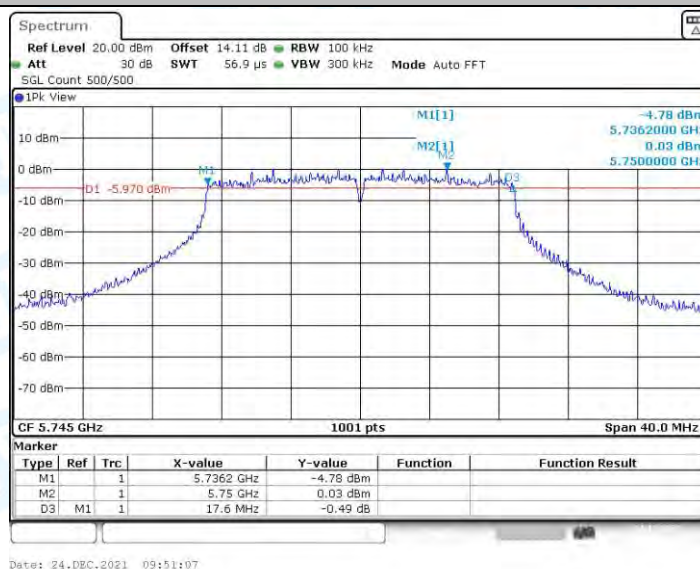
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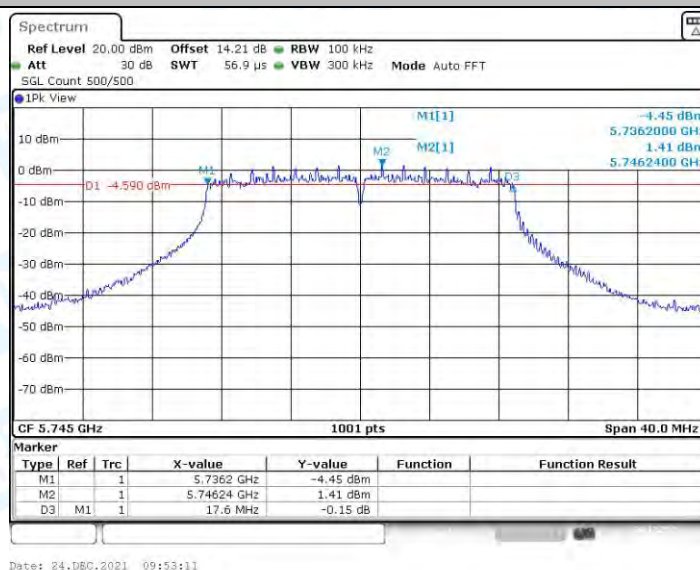
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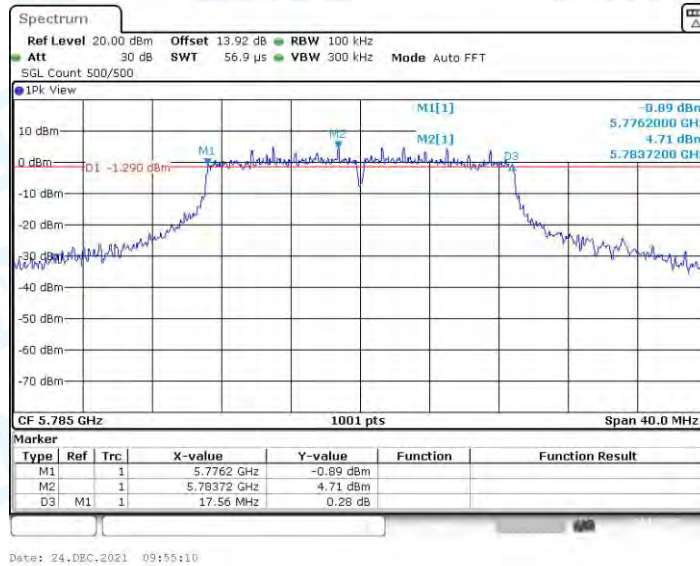
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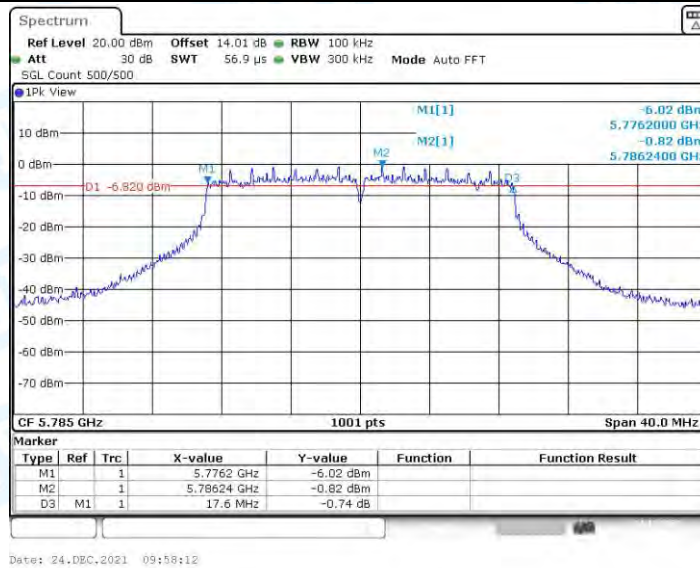
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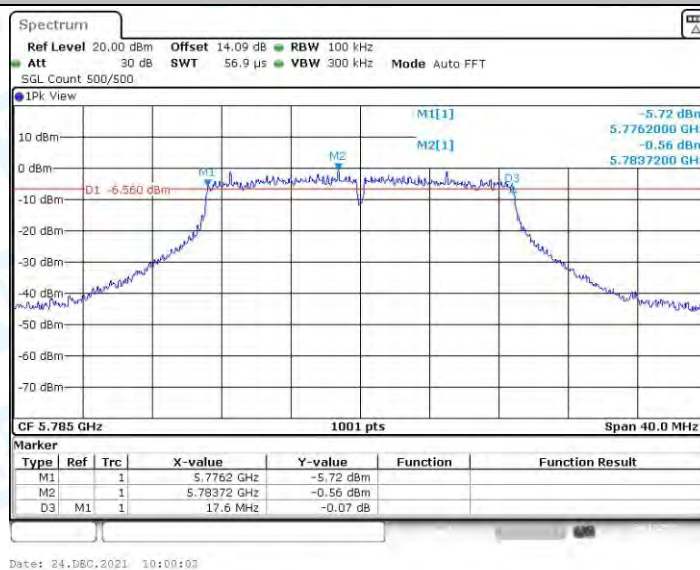
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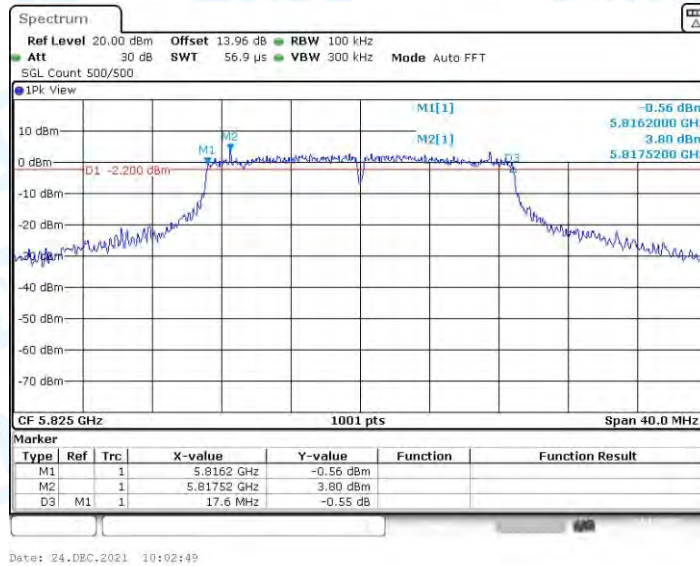
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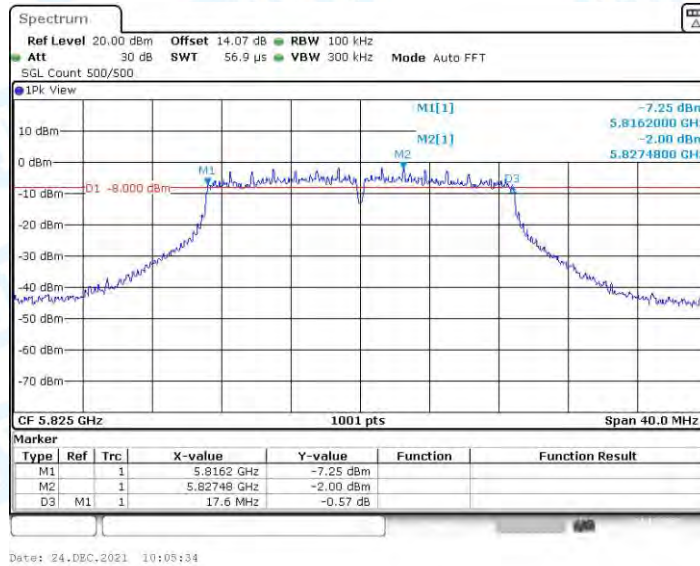
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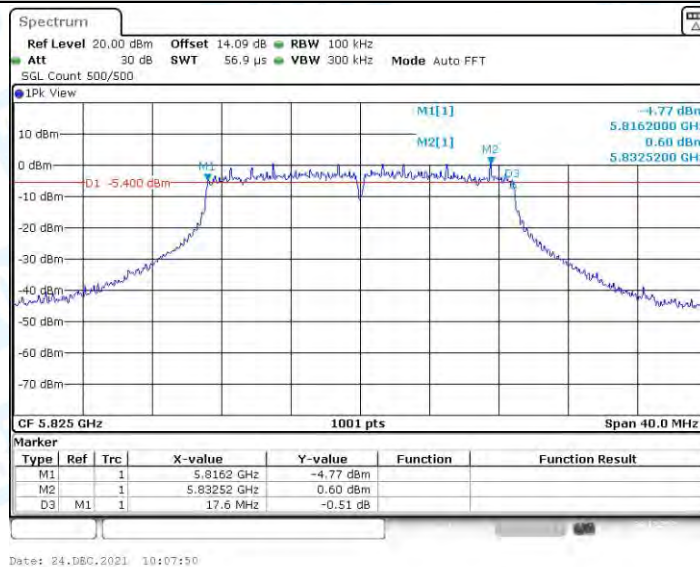
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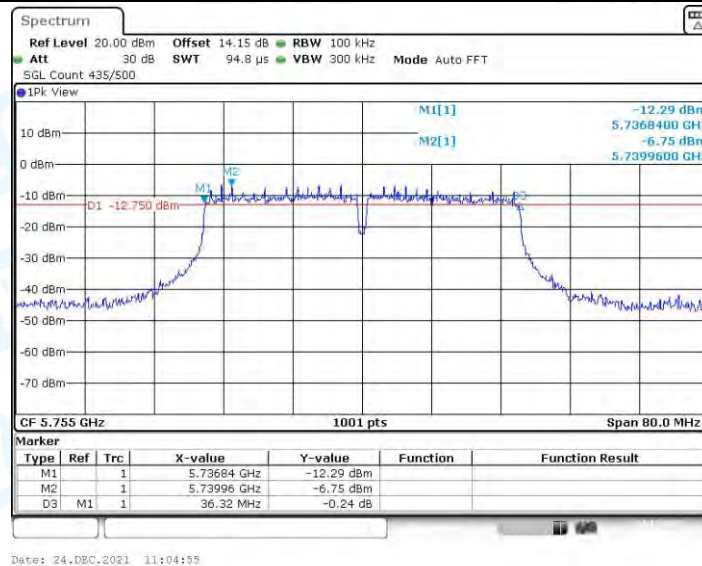
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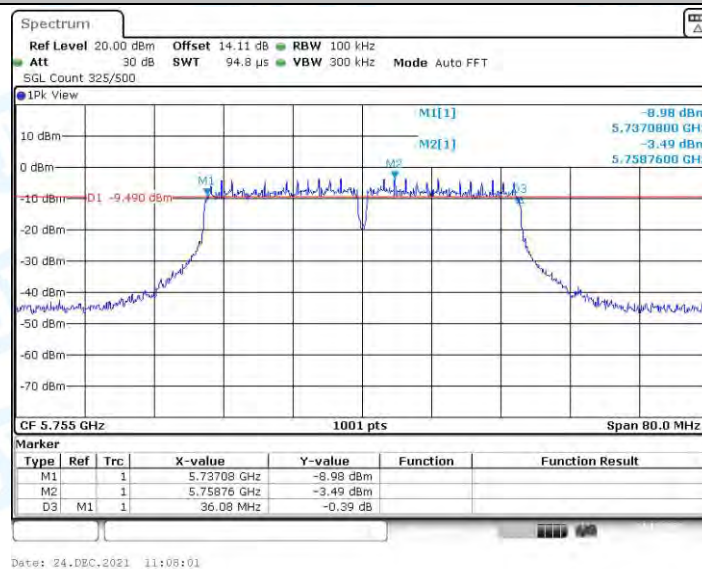
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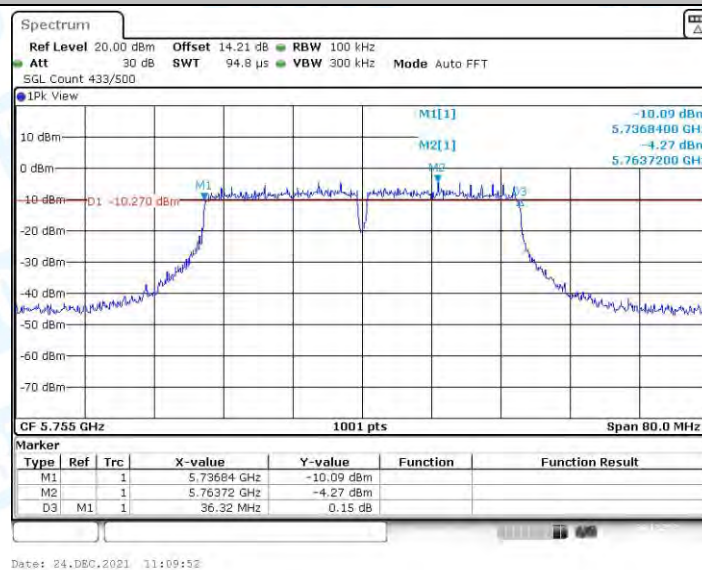
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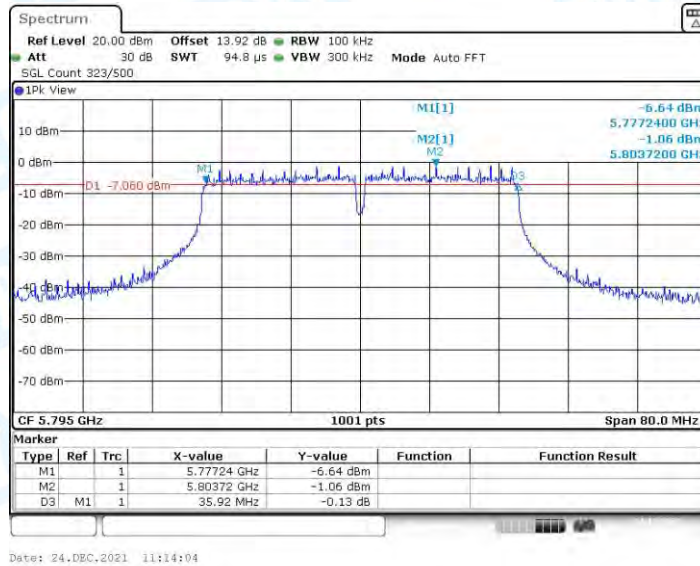
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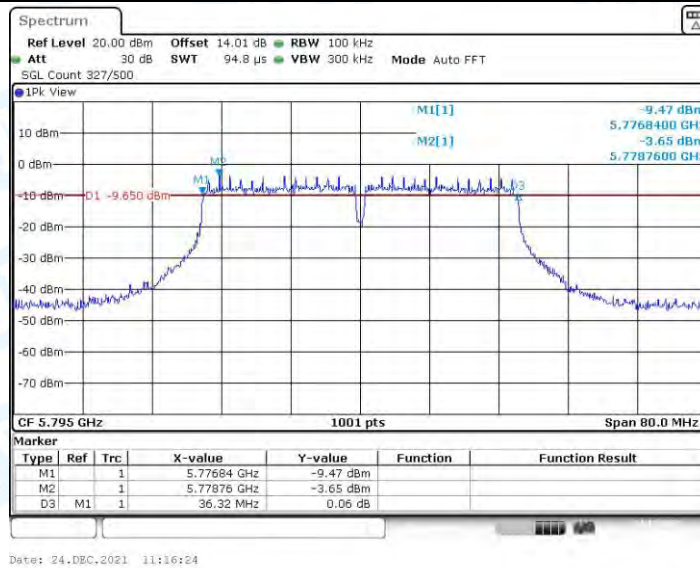
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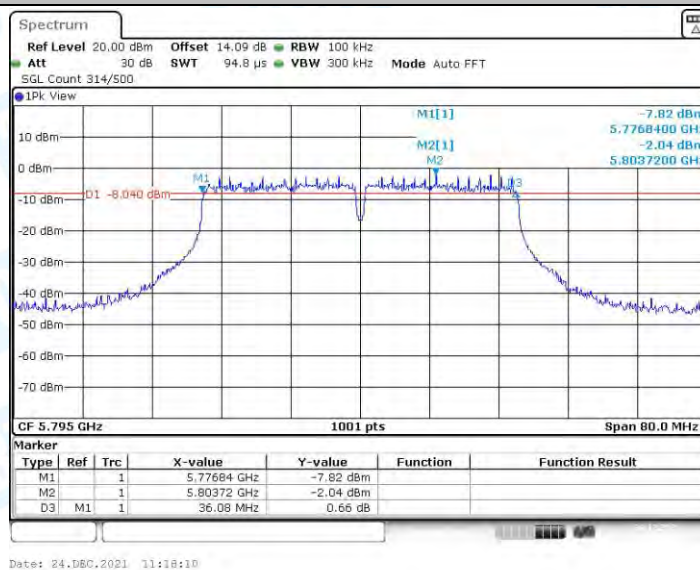
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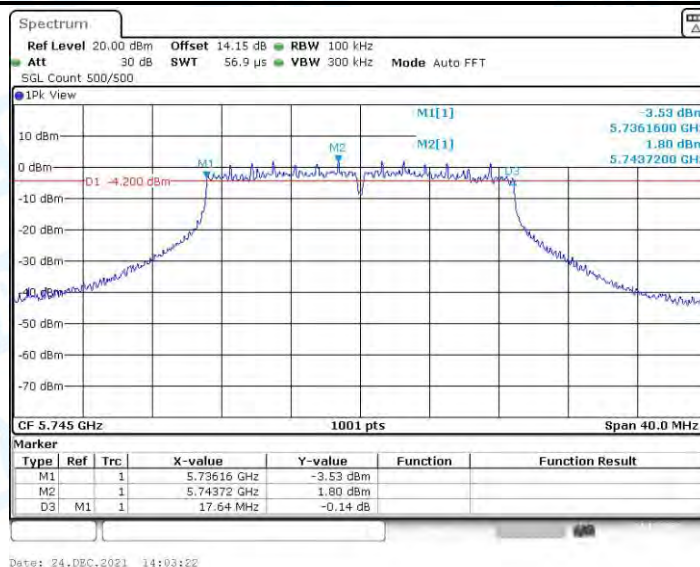
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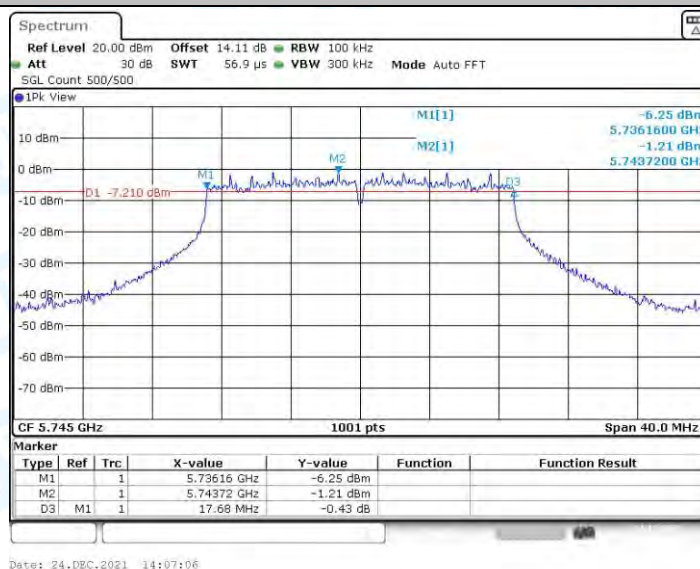
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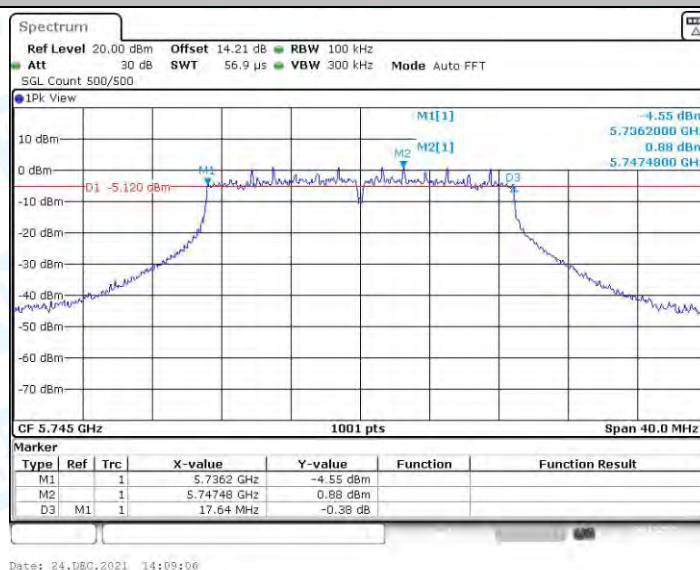
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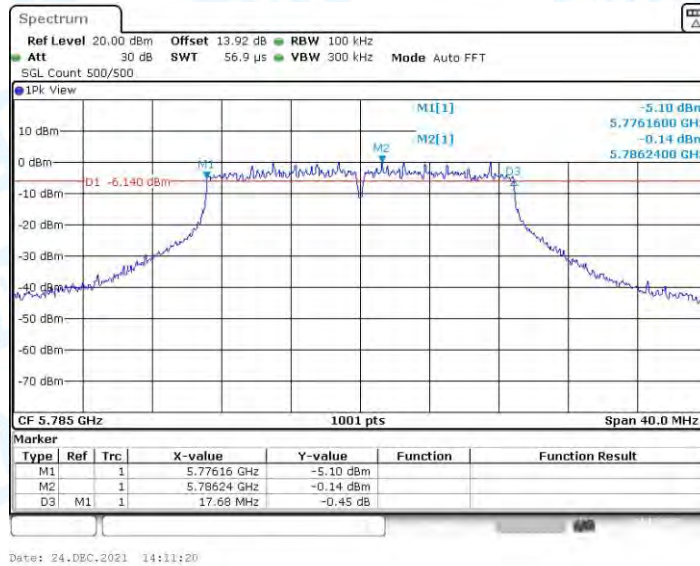
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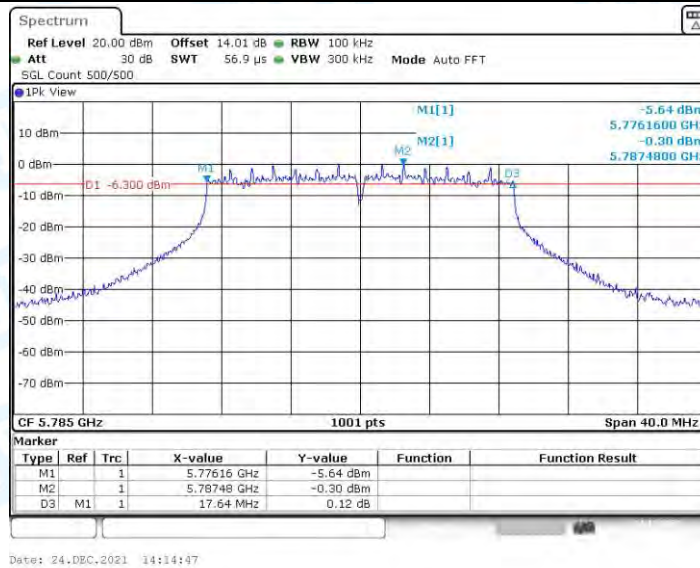
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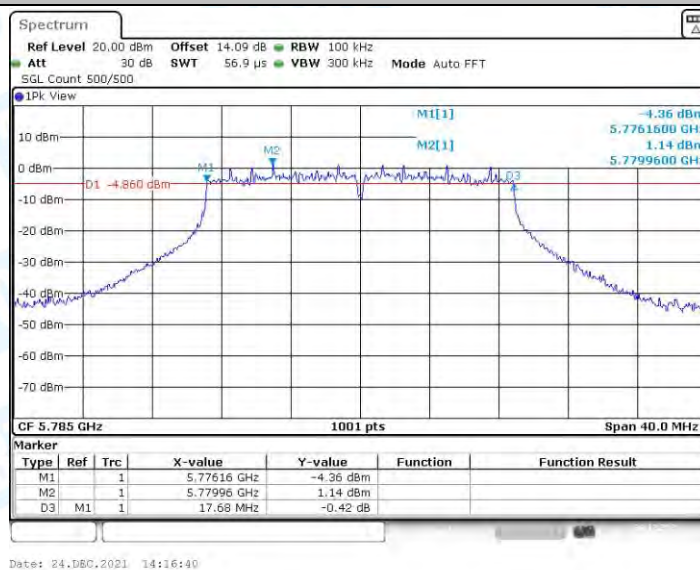
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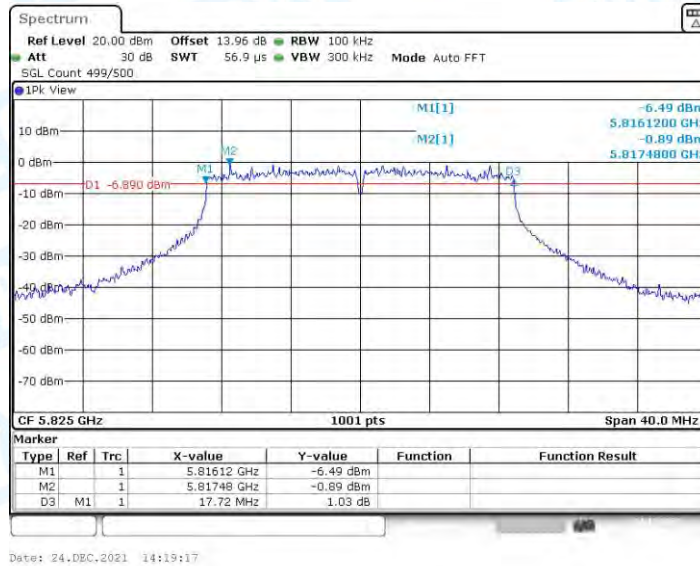
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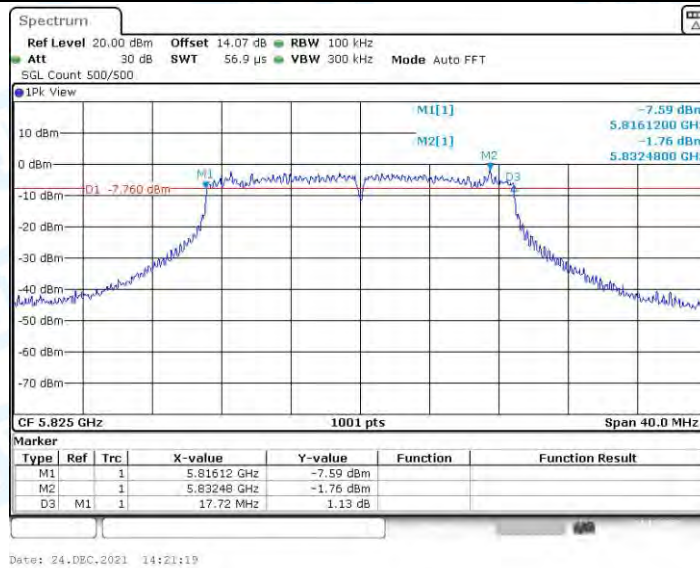
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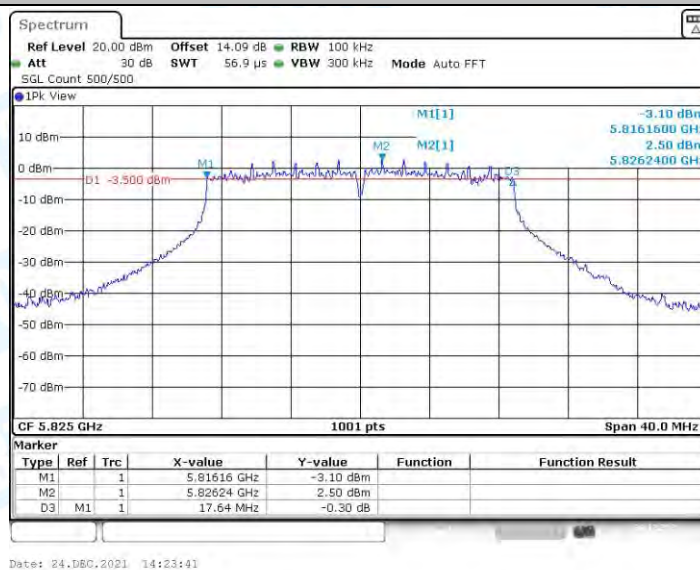
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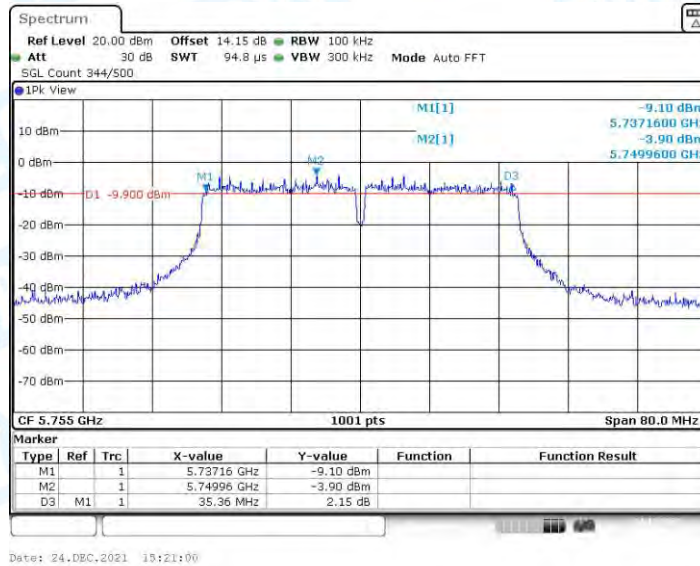
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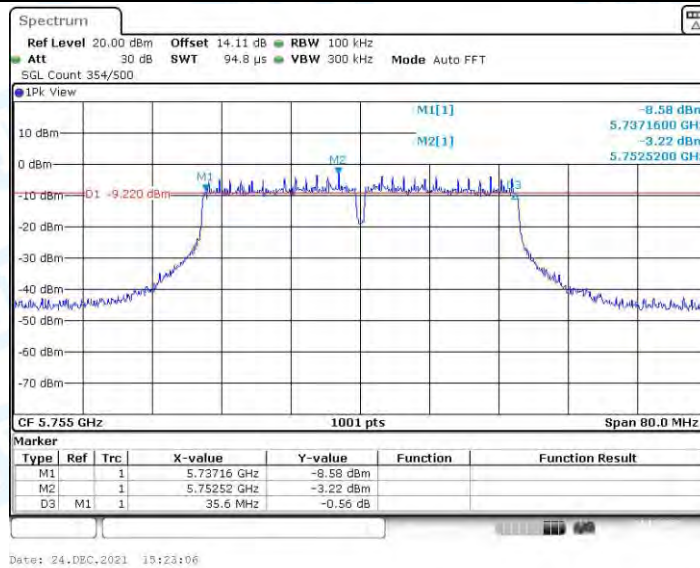
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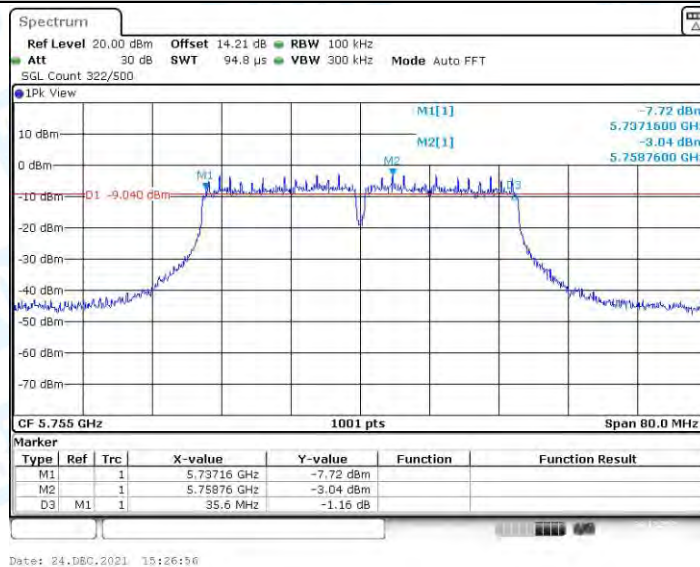
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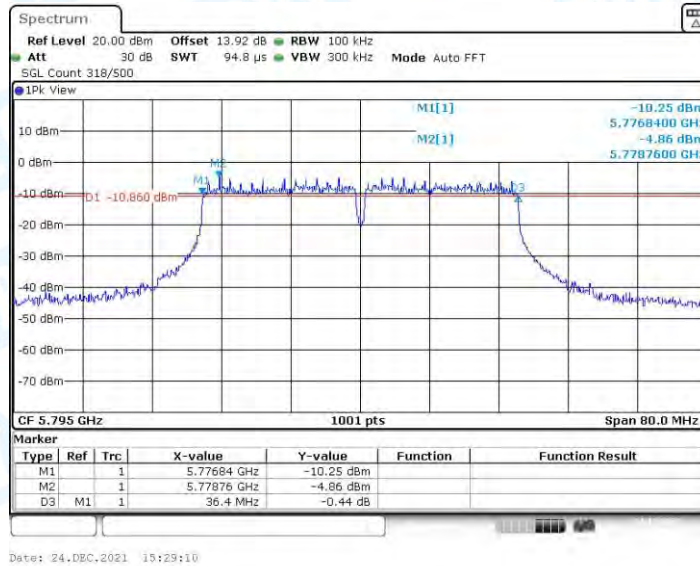
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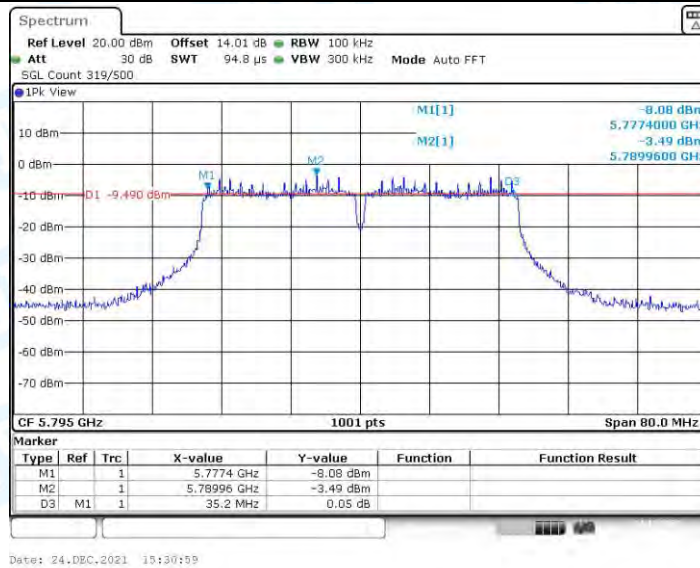
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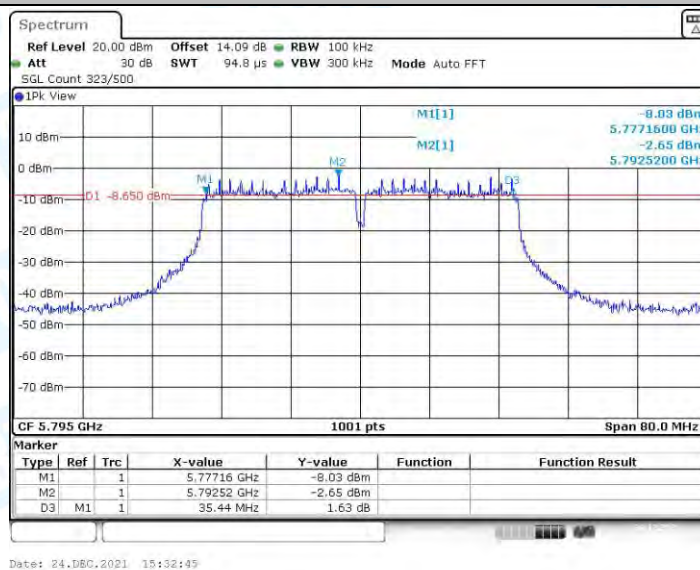
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