

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

General Description of EUT	
Product Name:	Acerone Liquid S272E4
Model:	Acerone Liquid S272E4
Sample ID:	HC-C-202410-0214-01-01#
Test Standard:	FCC Part 15.407
Environmental Conditions	
Ambient Temperature:	25°C
Ambient Humidity:	55%
Test Power Supply:	DC 3.87V
Test Engineer:	Zkn Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202410-0214-23	

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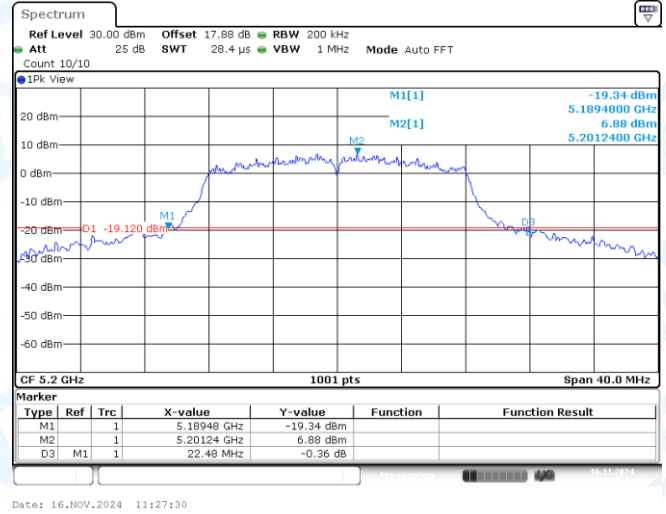
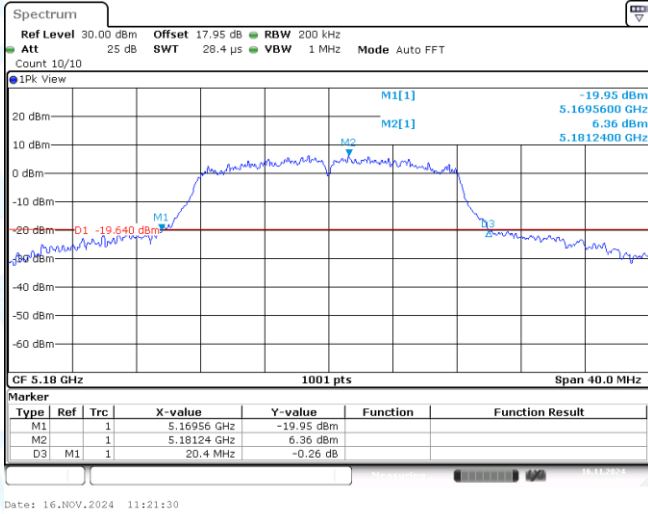
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1: Emission Bandwidth

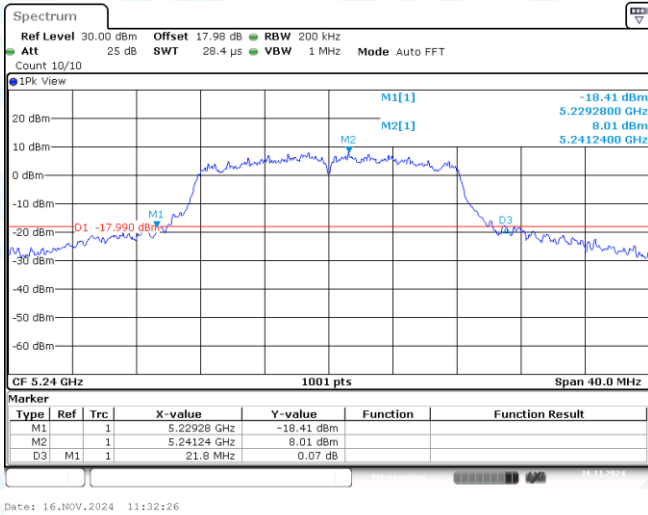
1.1 Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.40	5169.56	5189.96	---	---
11A	Ant1	5200	22.48	5189.48	5211.96	---	---
11A	Ant1	5240	21.80	5229.28	5251.08	---	---
11A	Ant1	5260	20.68	5249.56	5270.24	---	---
11A	Ant1	5280	20.84	5269.60	5290.44	---	---
11A	Ant1	5320	20.24	5309.68	5329.92	---	---
11N20SISO	Ant1	5180	23.00	5168.20	5191.20	---	---
11N20SISO	Ant1	5200	22.88	5188.16	5211.04	---	---
11N20SISO	Ant1	5240	24.48	5228.16	5252.64	---	---
11N20SISO	Ant1	5260	23.48	5248.20	5271.68	---	---
11N20SISO	Ant1	5280	21.48	5268.88	5290.36	---	---
11N20SISO	Ant1	5320	22.28	5308.16	5330.44	---	---
11N40SISO	Ant1	5190	55.68	5167.28	5222.96	---	---
11N40SISO	Ant1	5230	52.96	5200.48	5253.44	---	---
11N40SISO	Ant1	5270	47.36	5247.36	5294.72	---	---
11N40SISO	Ant1	5310	52.32	5282.48	5334.80	---	---
11AC20SISO	Ant1	5180	21.80	5168.60	5190.40	---	---
11AC20SISO	Ant1	5200	21.12	5189.64	5210.76	---	---
11AC20SISO	Ant1	5240	23.28	5229.00	5252.28	---	---
11AC20SISO	Ant1	5260	21.72	5249.56	5271.28	---	---
11AC20SISO	Ant1	5280	20.28	5269.84	5290.12	---	---
11AC20SISO	Ant1	5320	21.80	5308.32	5330.12	---	---
11AC40SISO	Ant1	5190	40.00	5170.08	5210.08	---	---
11AC40SISO	Ant1	5230	43.92	5209.36	5253.28	---	---
11AC40SISO	Ant1	5270	48.32	5247.60	5295.92	---	---
11AC40SISO	Ant1	5310	40.48	5289.60	5330.08	---	---
11AC80SISO	Ant1	5210	99.52	5170.16	5269.68	---	---
11AC80SISO	Ant1	5290	79.84	5250.16	5330.00	---	---

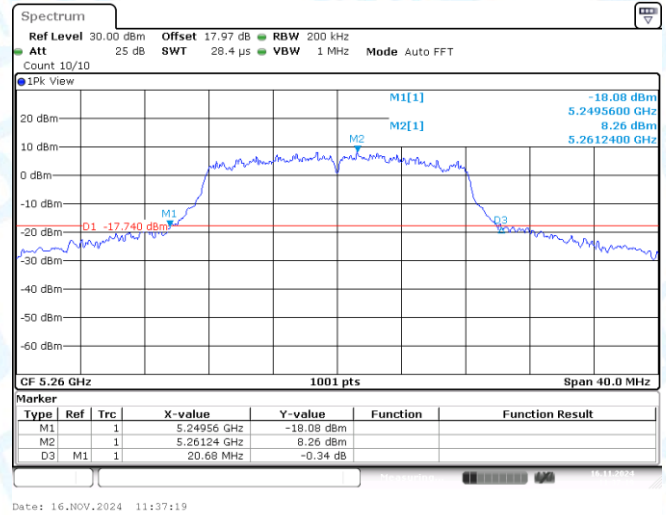
1.2 Test Graphs



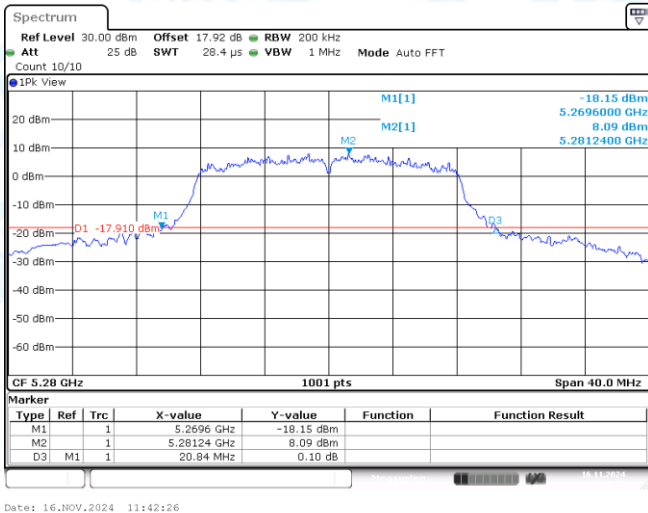
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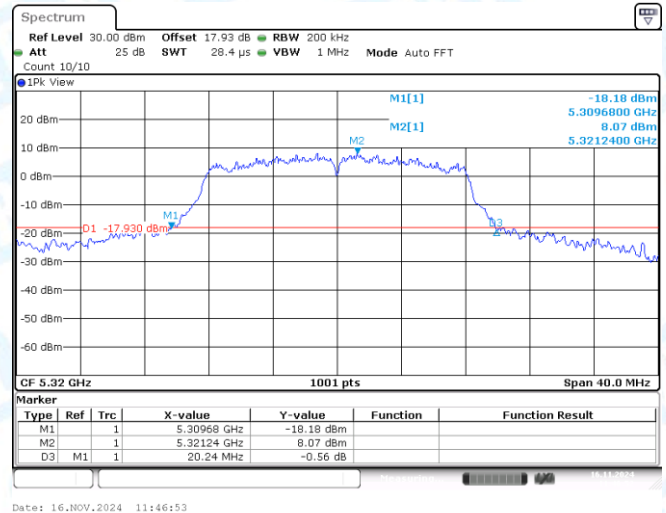
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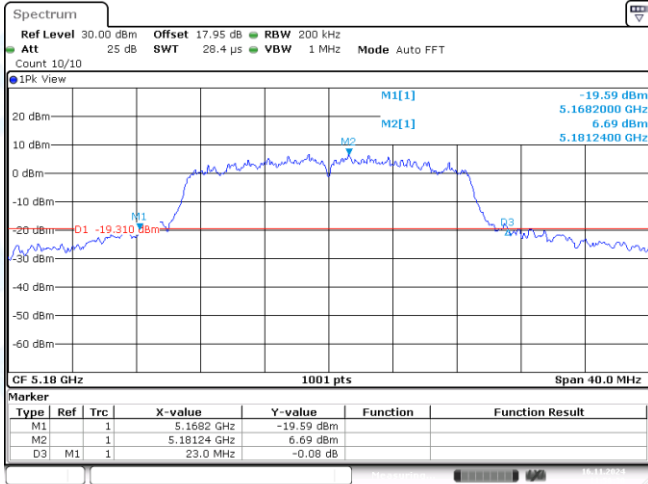


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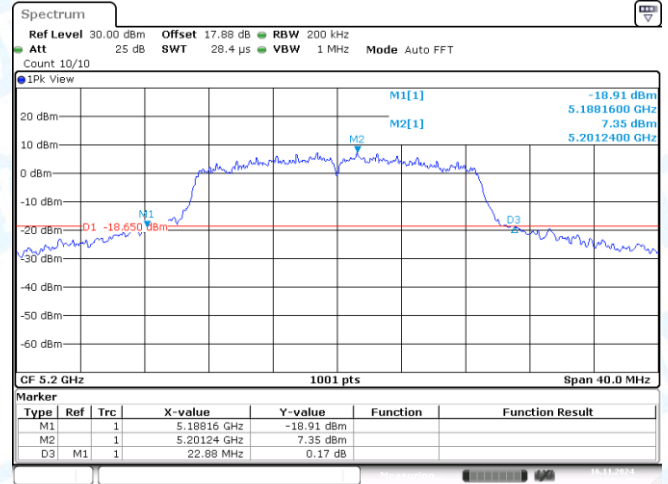


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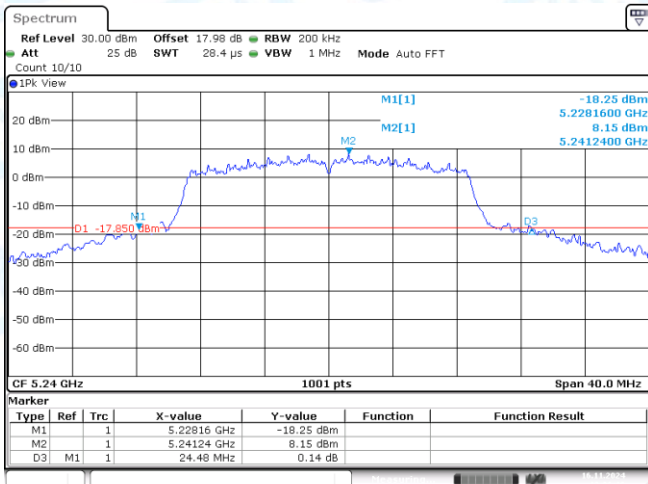
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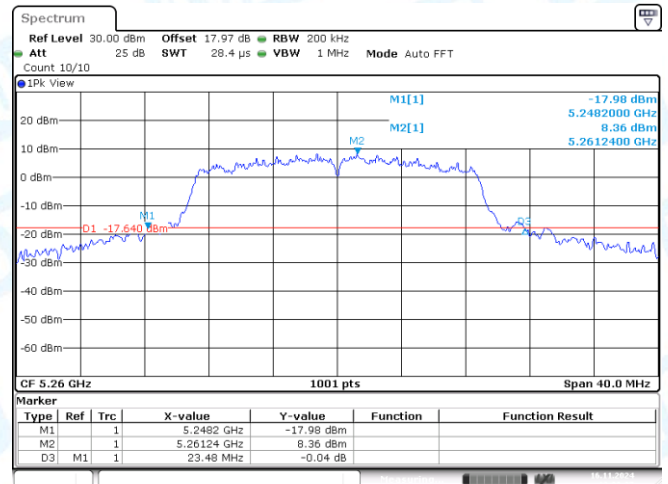
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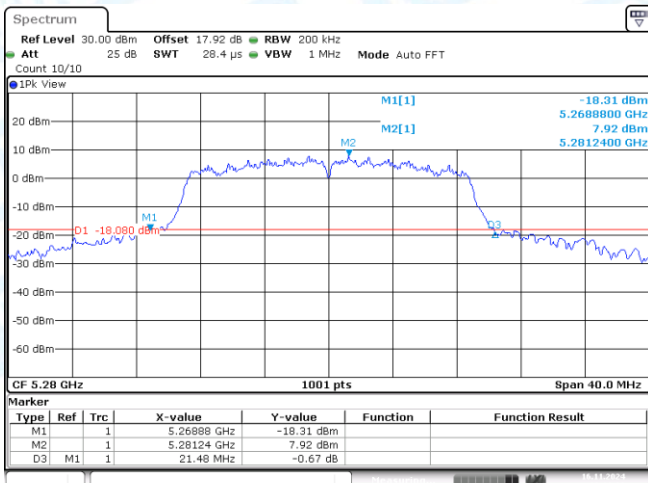
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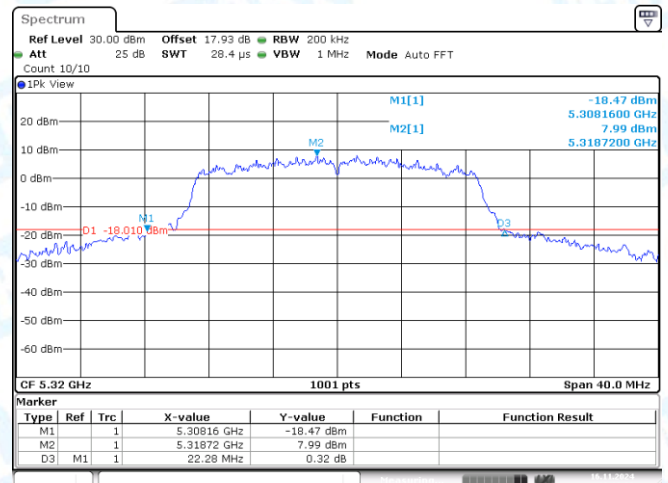
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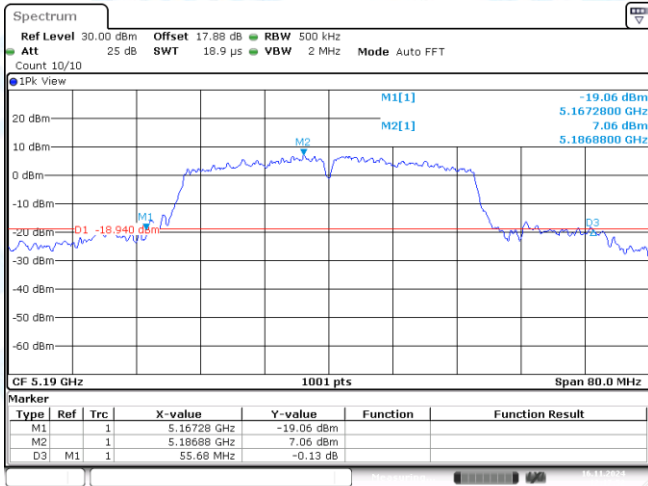
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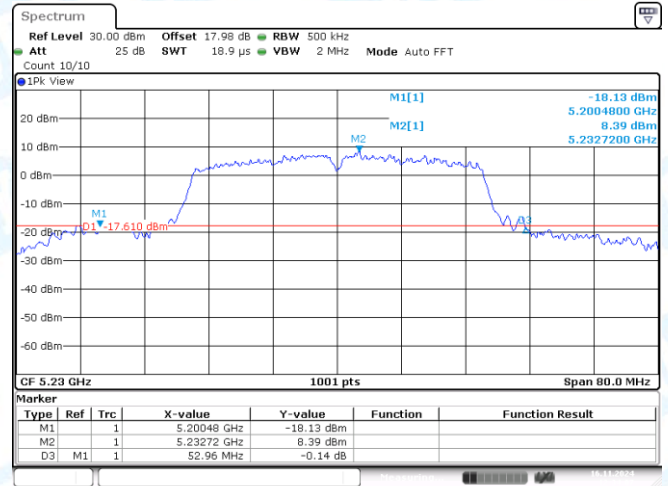
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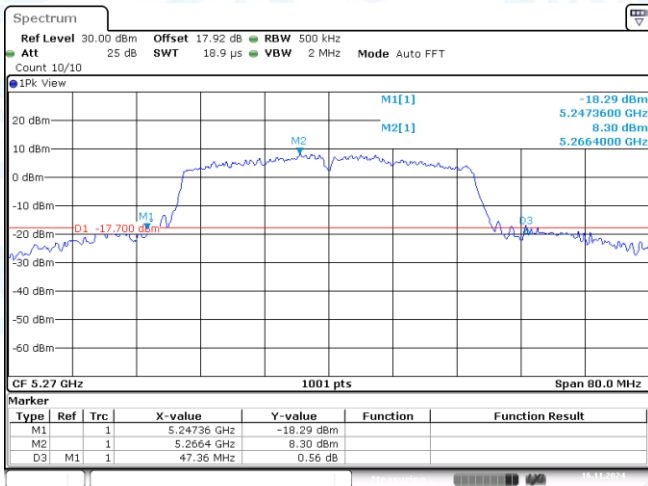
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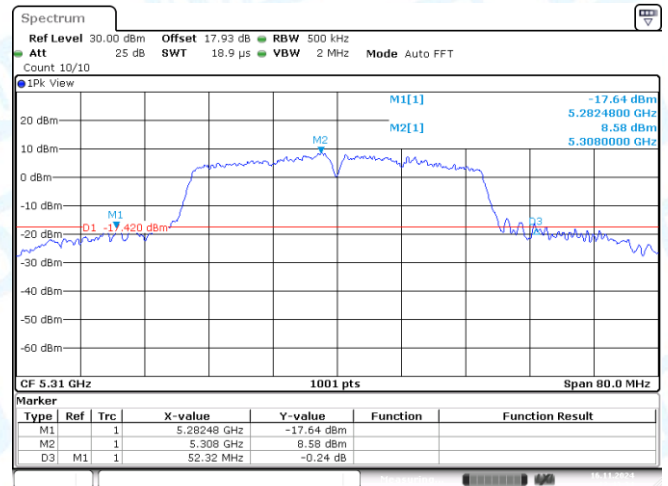
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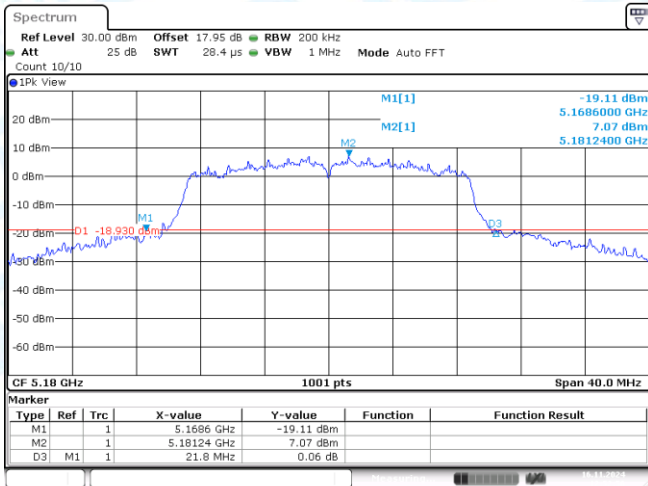
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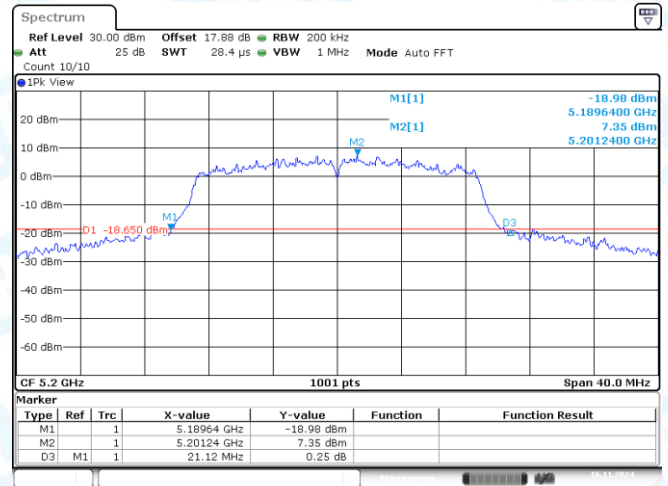
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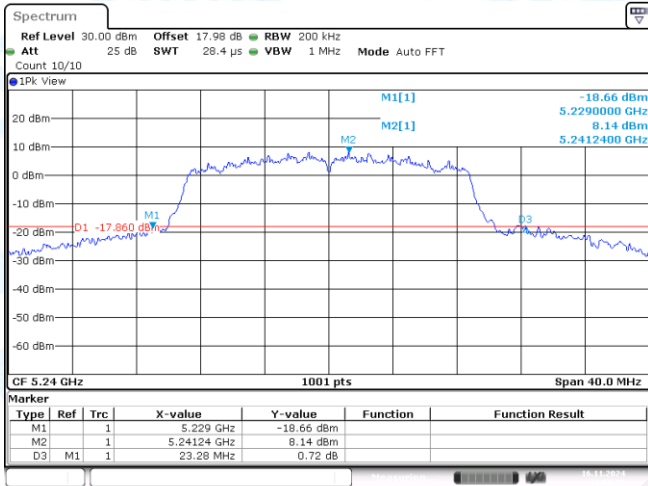
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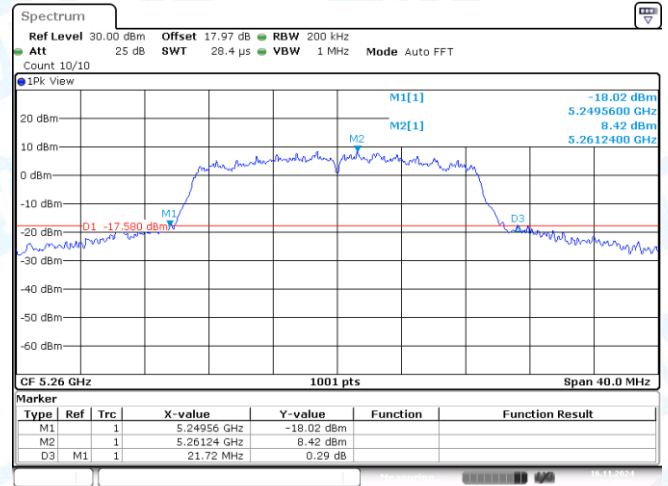
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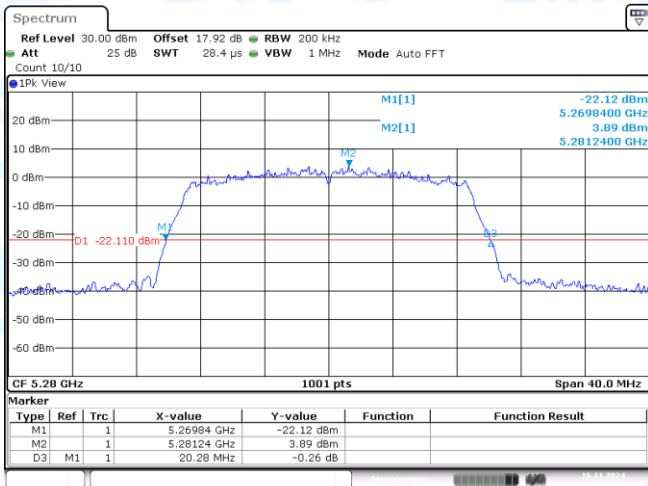
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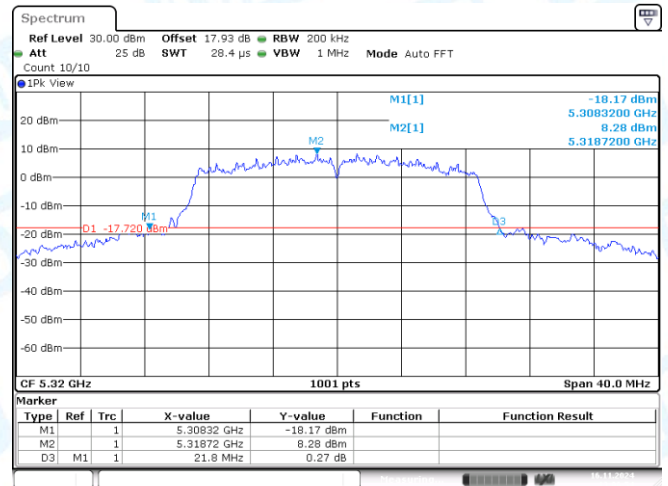
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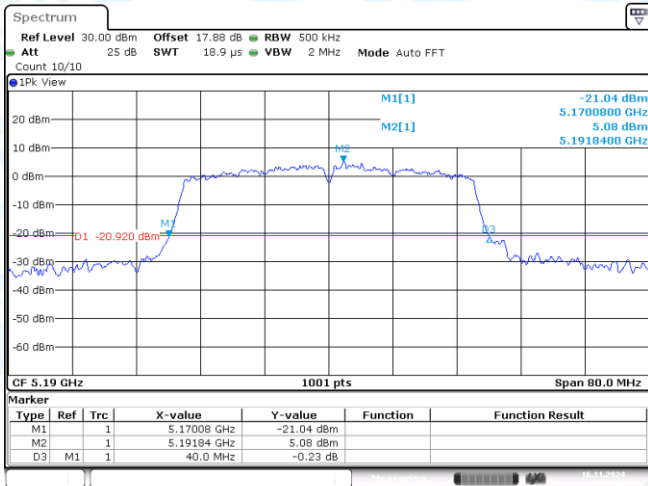
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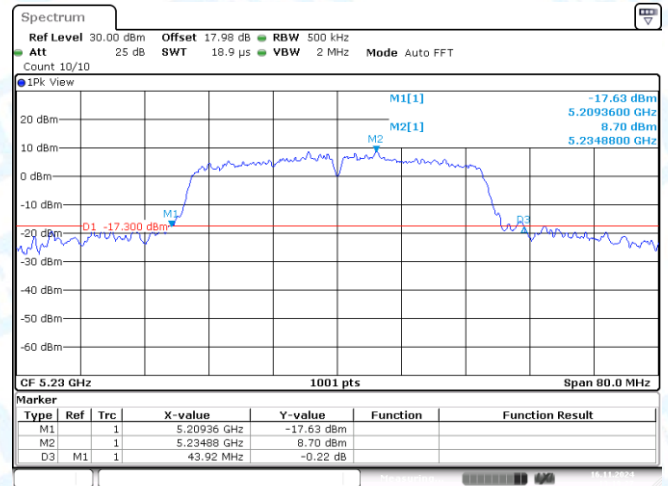
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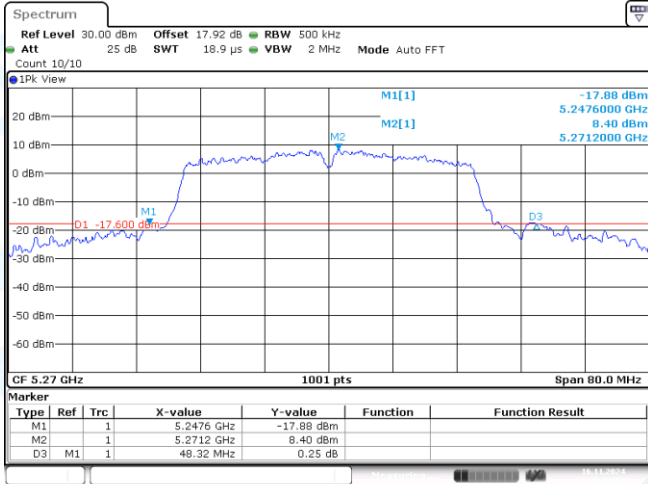
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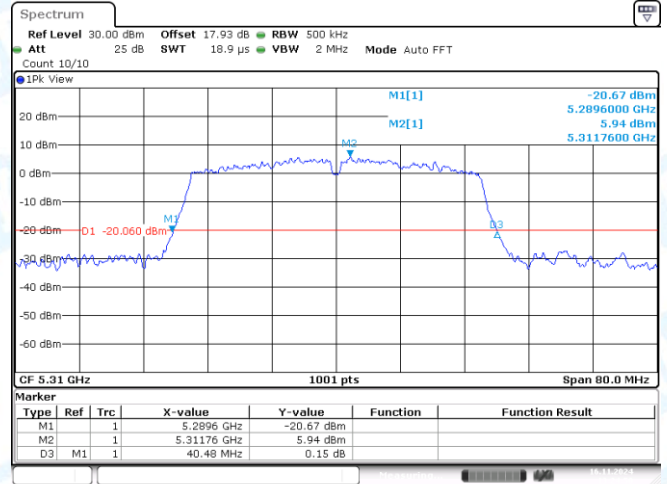
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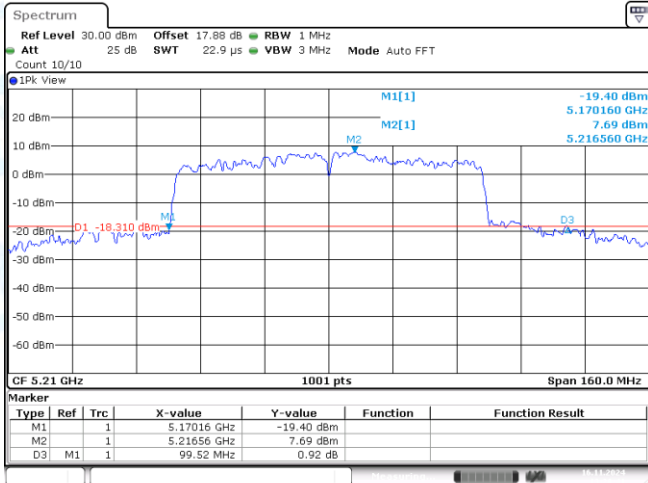
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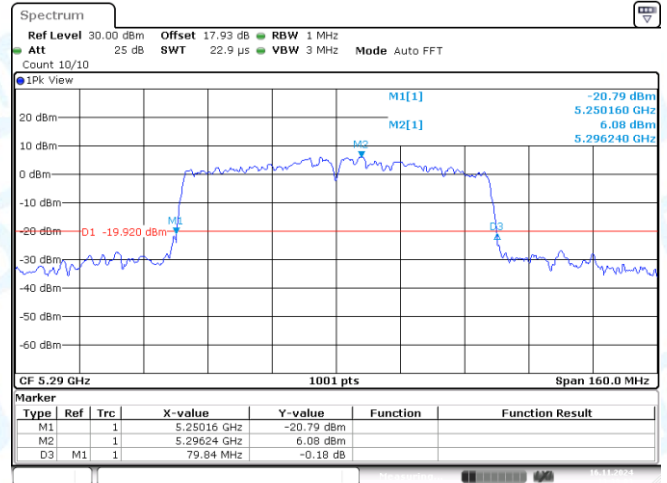
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11AC40SISO-Ant1-5310



11AC80SISO-Ant1-5210



11AC80SISO-Ant1-5290

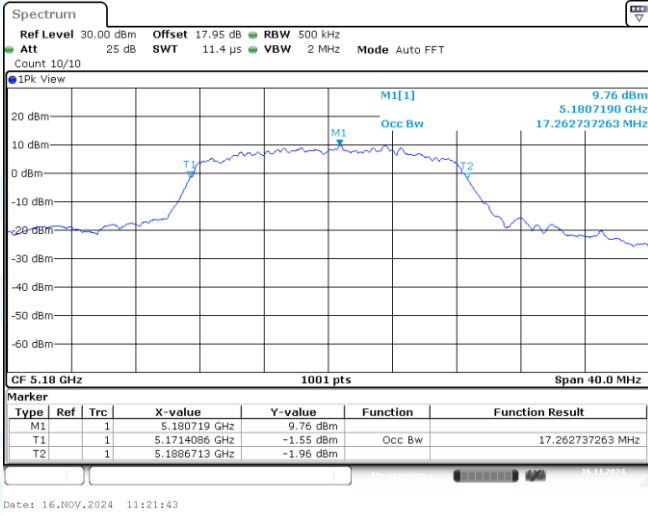
2: Occupied channel bandwidth

2.1 Test Result

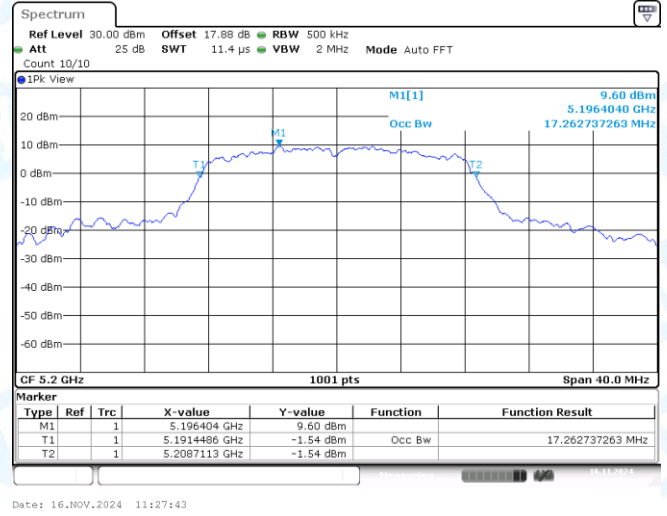
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.263	5171.4086	5188.6713	---	---
11A	Ant1	5200	17.263	5191.4486	5208.7113	---	---
11A	Ant1	5240	17.343	5231.2488	5248.5914	---	---
11A	Ant1	5260	17.183	5251.3686	5268.5514	---	---
11A	Ant1	5280	17.103	5271.2887	5288.3916	---	---
11A	Ant1	5320	17.423	5311.2887	5328.7113	---	---
11A	Ant1	5745	17.662	5736.2088	5753.8711	---	---
11A	Ant1	5785	17.622	5776.1688	5793.7912	---	---
11A	Ant1	5825	17.383	5816.2488	5833.6314	---	---
11N20SISO	Ant1	5180	18.222	5170.7692	5188.9910	---	---
11N20SISO	Ant1	5200	18.501	5190.5694	5209.0709	---	---
11N20SISO	Ant1	5240	18.422	5230.6094	5249.0310	---	---
11N20SISO	Ant1	5260	18.062	5250.9690	5269.0310	---	---
11N20SISO	Ant1	5280	18.462	5270.6893	5289.1508	---	---
11N20SISO	Ant1	5320	18.382	5310.6494	5329.0310	---	---
11N20SISO	Ant1	5745	18.422	5735.7293	5754.1508	---	---
11N20SISO	Ant1	5785	18.581	5775.5295	5794.1109	---	---
11N20SISO	Ant1	5825	18.541	5815.8092	5834.3506	---	---
11N40SISO	Ant1	5190	36.523	5171.7782	5208.3017	---	---
11N40SISO	Ant1	5230	36.683	5211.6184	5248.3017	---	---
11N40SISO	Ant1	5270	36.124	5251.8581	5287.9820	---	---
11N40SISO	Ant1	5310	36.683	5291.6983	5328.3816	---	---
11N40SISO	Ant1	5755	36.923	5736.0589	5772.9820	---	---
11N40SISO	Ant1	5795	36.523	5776.6184	5813.1419	---	---
11AC20SISO	Ant1	5180	18.142	5170.8891	5189.0310	---	---
11AC20SISO	Ant1	5200	18.102	5190.9291	5209.0310	---	---
11AC20SISO	Ant1	5240	18.262	5231.0090	5249.2707	---	---
11AC20SISO	Ant1	5260	18.182	5250.8891	5269.0709	---	---
11AC20SISO	Ant1	5280	17.902	5271.0090	5288.9111	---	---
11AC20SISO	Ant1	5320	18.262	5310.7293	5328.9910	---	---
11AC20SISO	Ant1	5745	18.222	5735.8092	5754.0310	---	---
11AC20SISO	Ant1	5785	18.222	5775.8092	5794.0310	---	---
11AC20SISO	Ant1	5825	18.262	5815.8891	5834.1508	---	---
11AC40SISO	Ant1	5190	36.284	5172.0180	5208.3017	---	---
11AC40SISO	Ant1	5230	36.284	5211.8581	5248.1419	---	---
11AC40SISO	Ant1	5270	36.284	5251.9381	5288.2218	---	---
11AC40SISO	Ant1	5310	35.964	5291.9381	5327.9021	---	---
11AC40SISO	Ant1	5755	36.683	5736.6184	5773.3017	---	---
11AC40SISO	Ant1	5795	36.603	5776.4585	5813.0619	---	---
11AC80SISO	Ant1	5210	76.244	5172.1179	5248.3616	---	---
11AC80SISO	Ant1	5290	75.764	5252.1179	5327.8821	---	---

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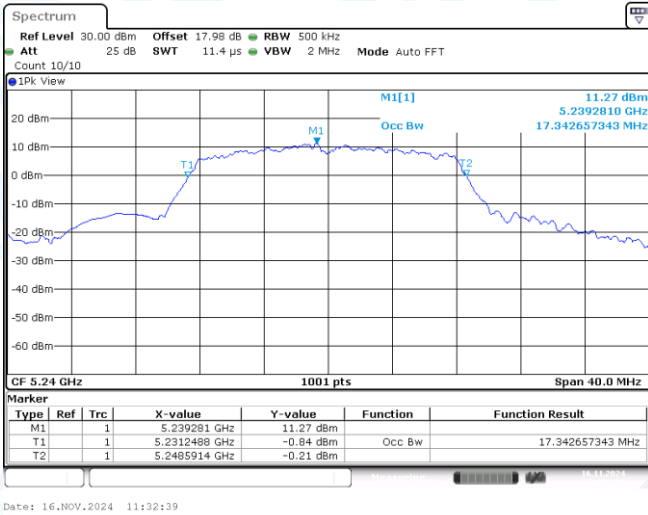
2.2 Test Graphs



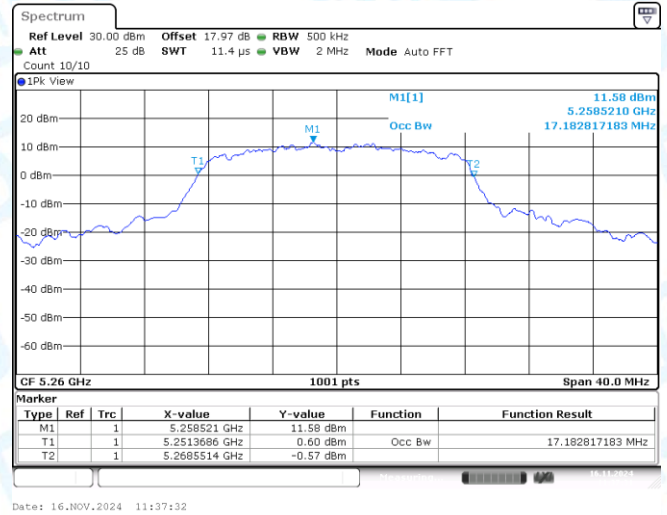
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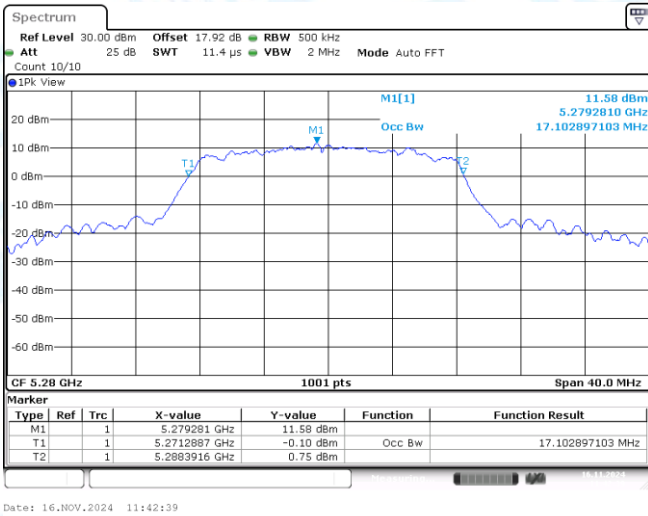
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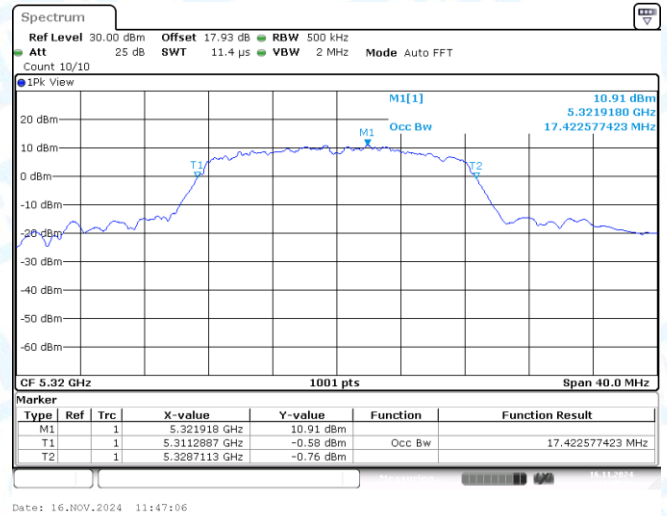
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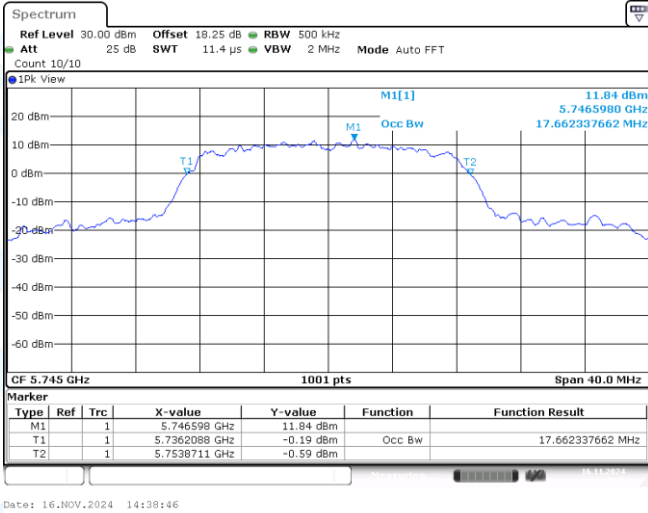
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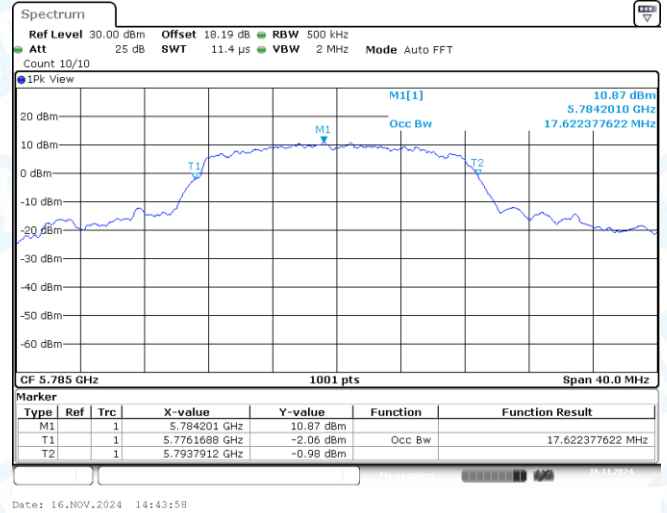
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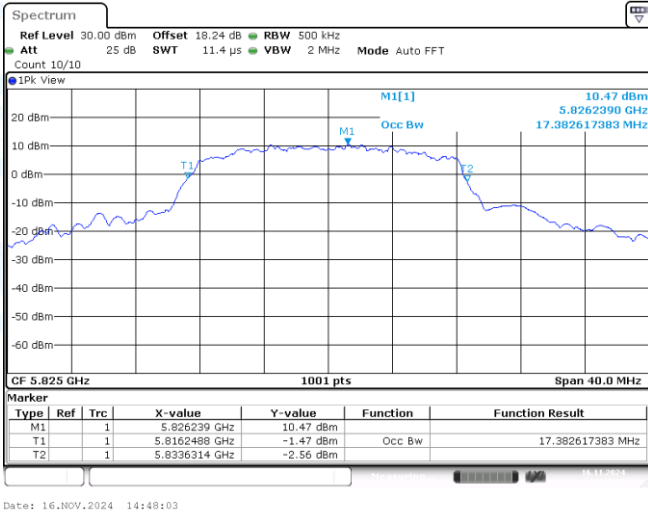
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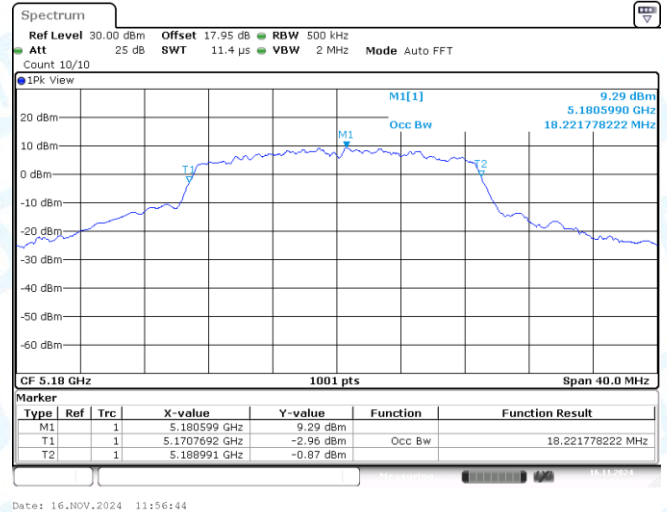
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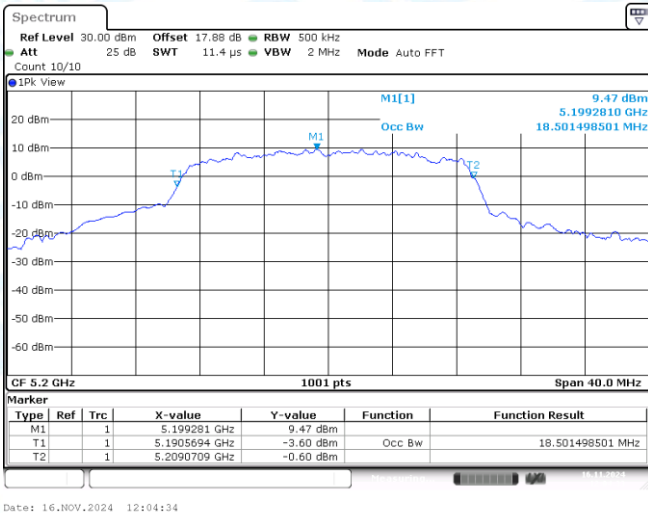
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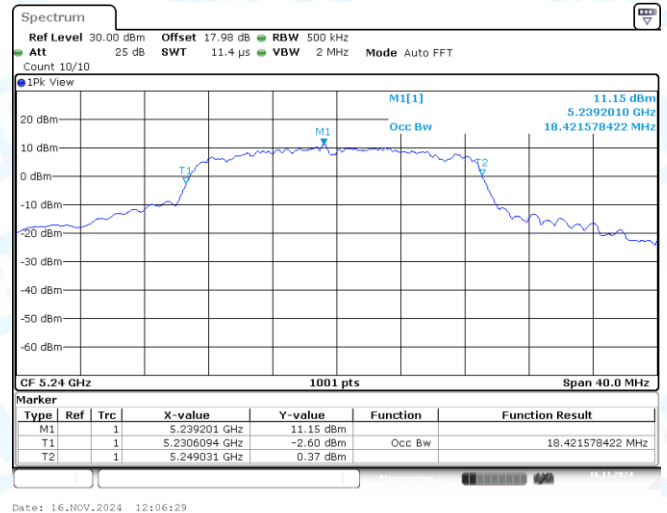
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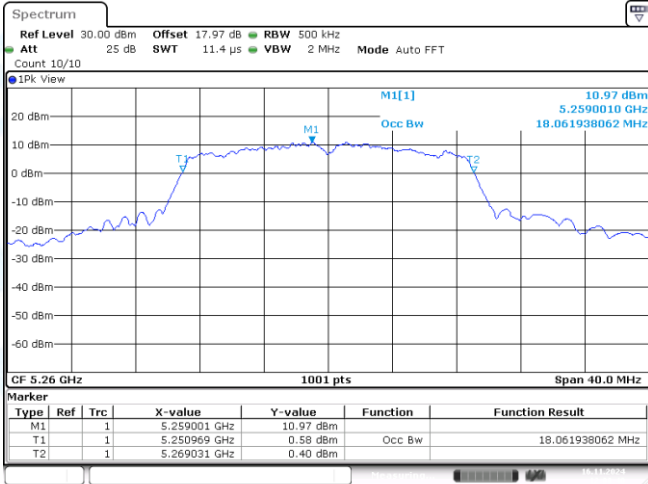
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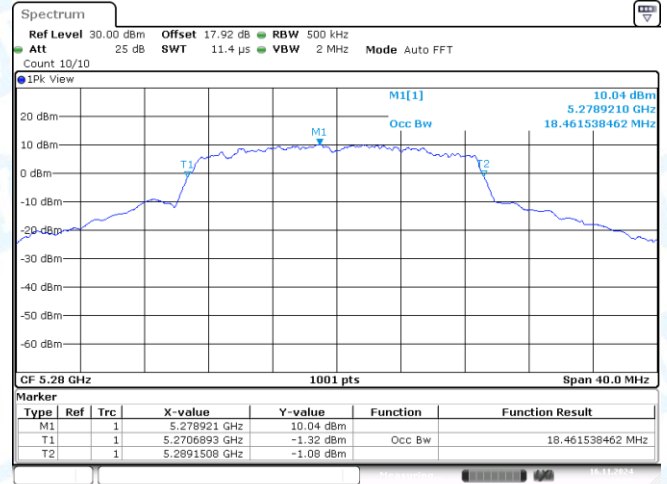
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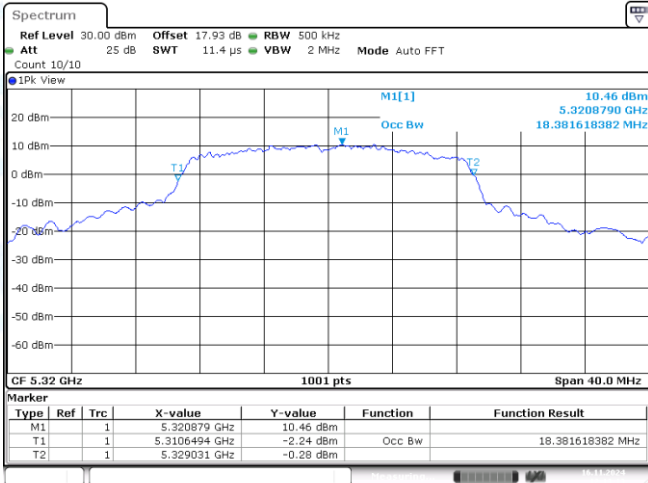
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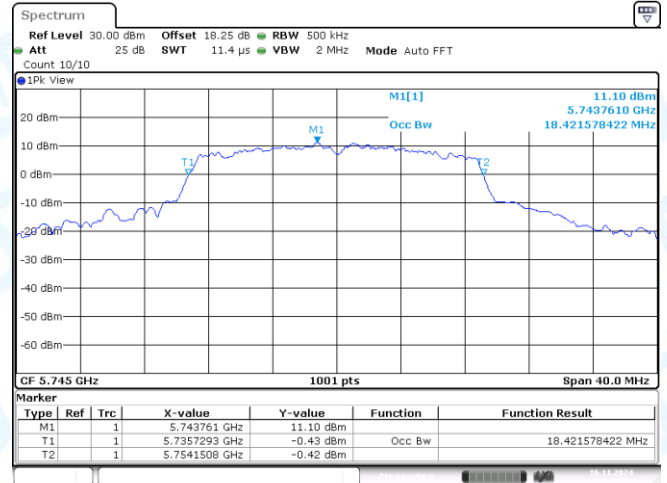
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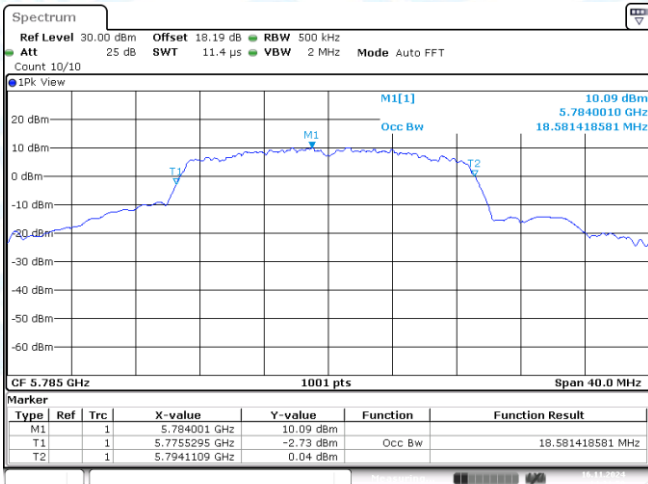
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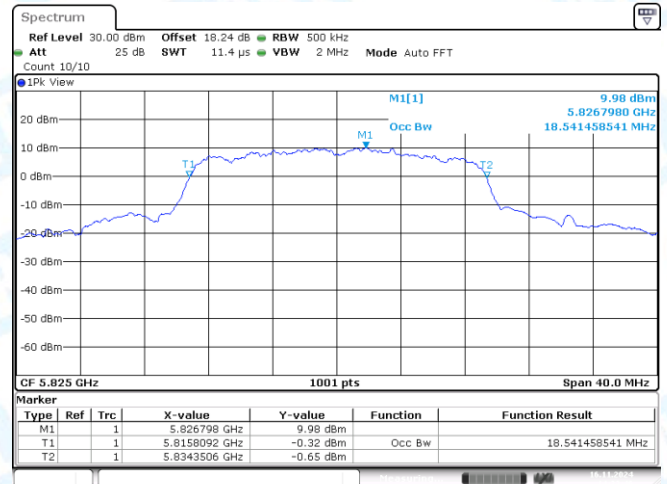
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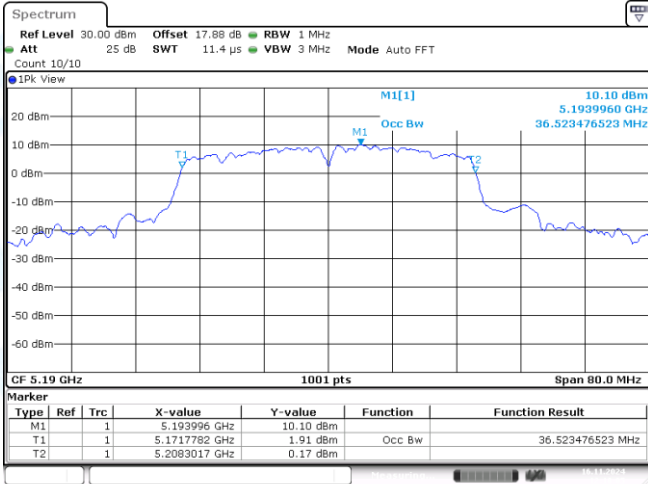
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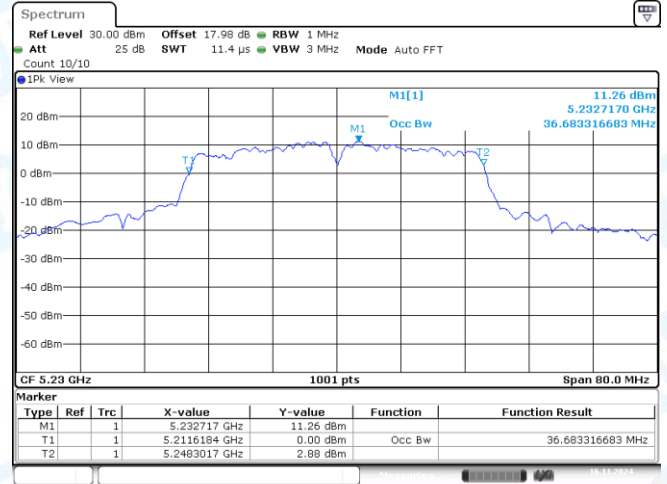
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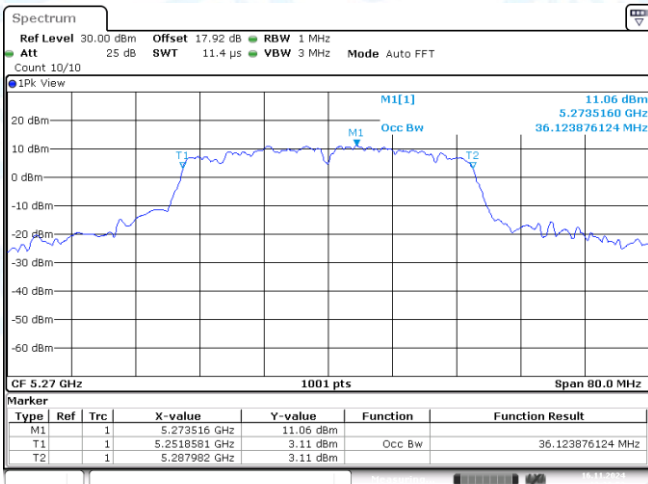
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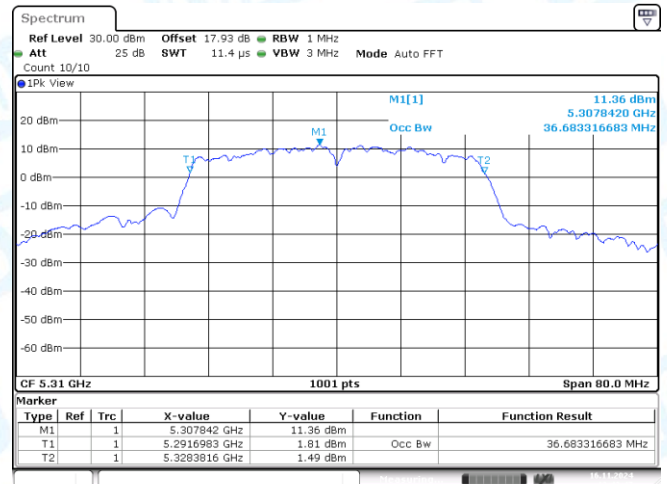
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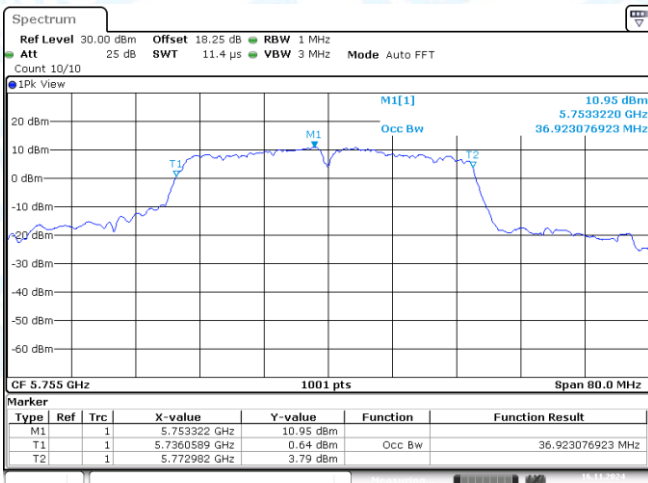
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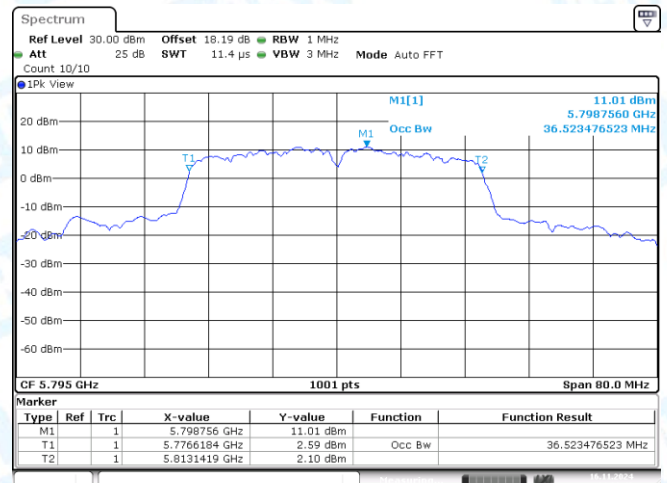
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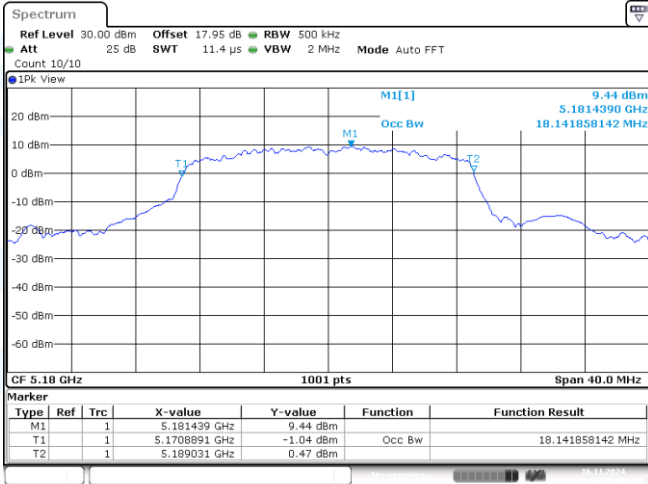
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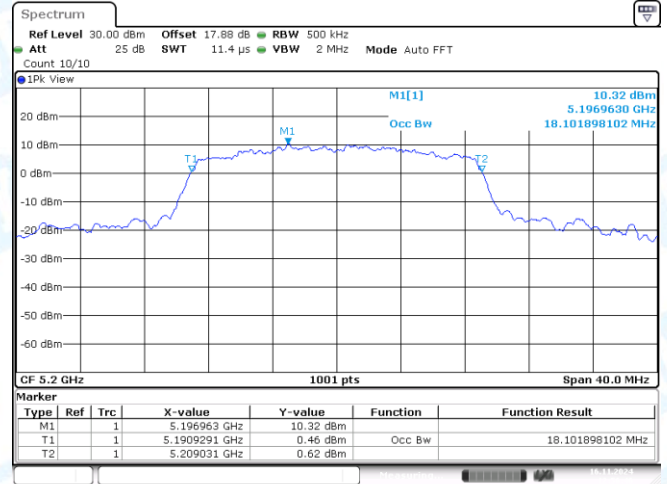
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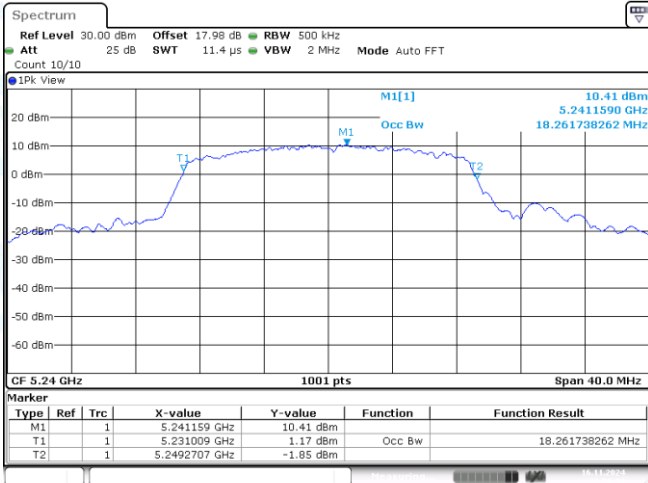
11N40SISO-Ant1-5795



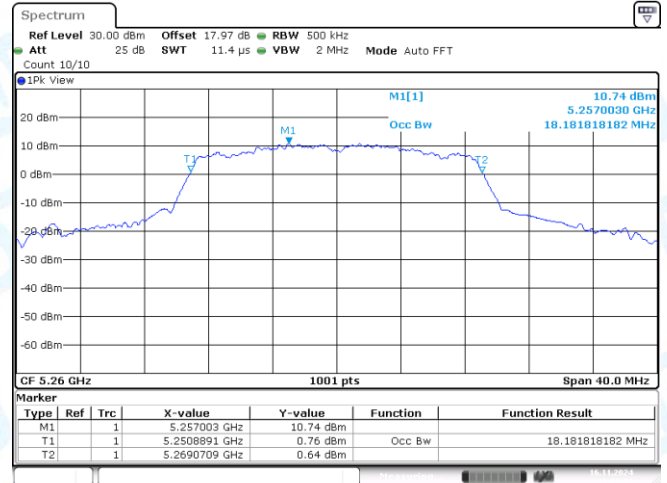
11AC20SISO-Ant1-5180



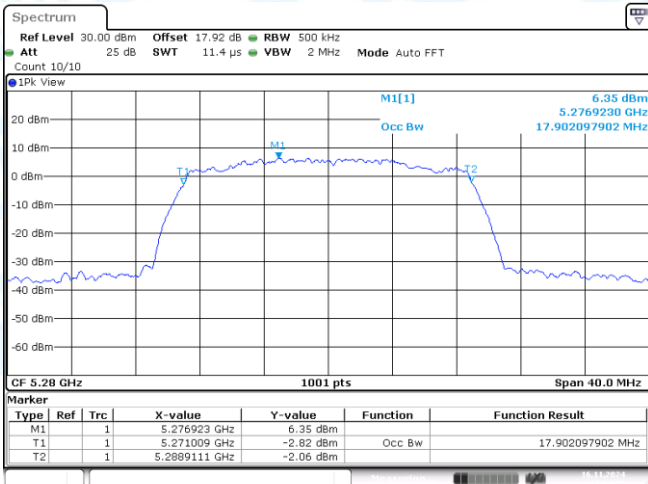
11AC20SISO-Ant1-5200



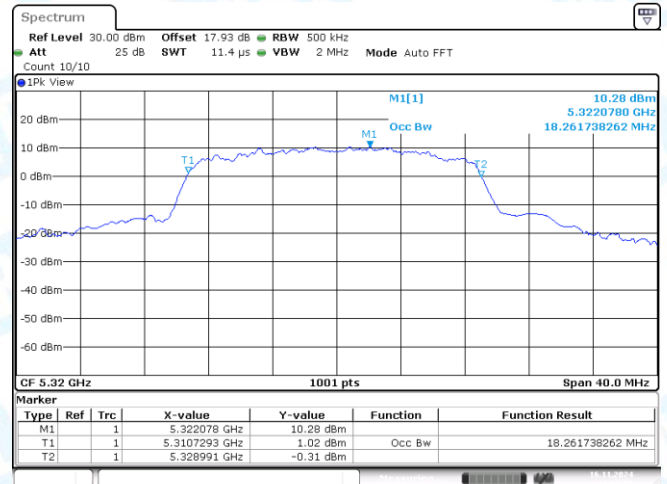
11AC20SISO-Ant1-5240



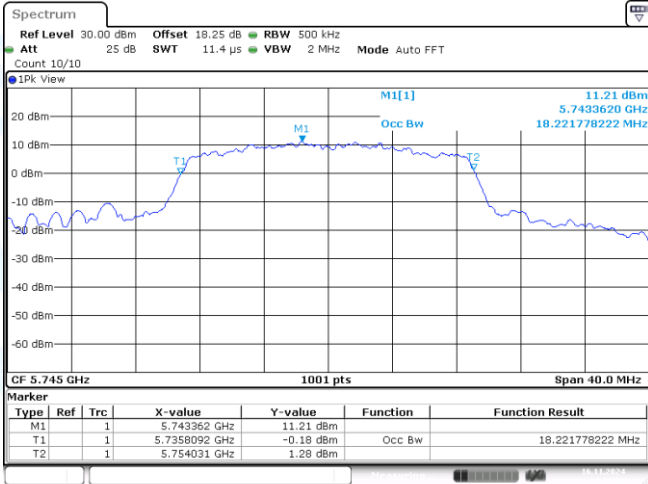
11AC20SISO-Ant1-5260



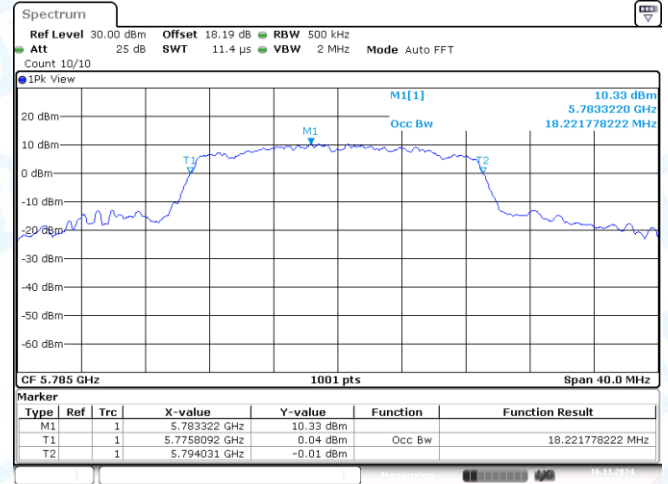
11AC20SISO-Ant1-5280



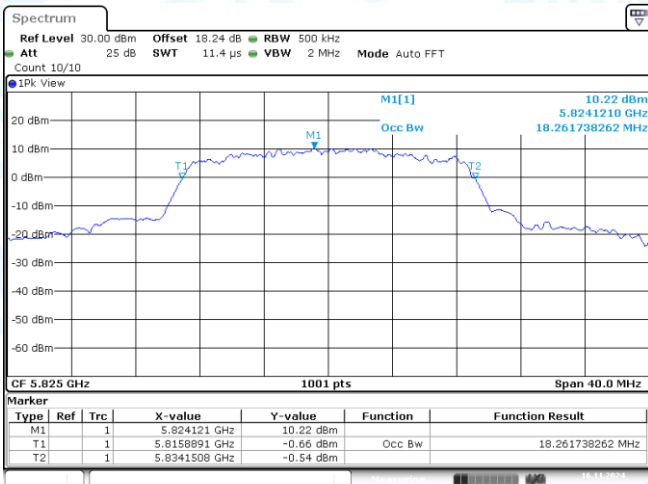
11AC20SISO-Ant1-5320



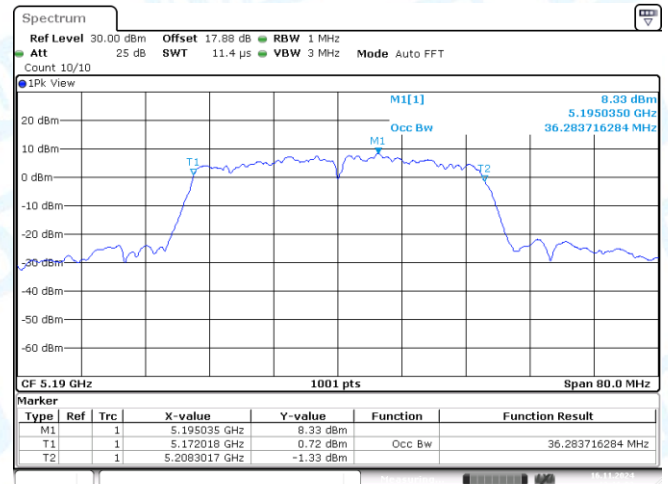
11AC20SISO-Ant1-5745



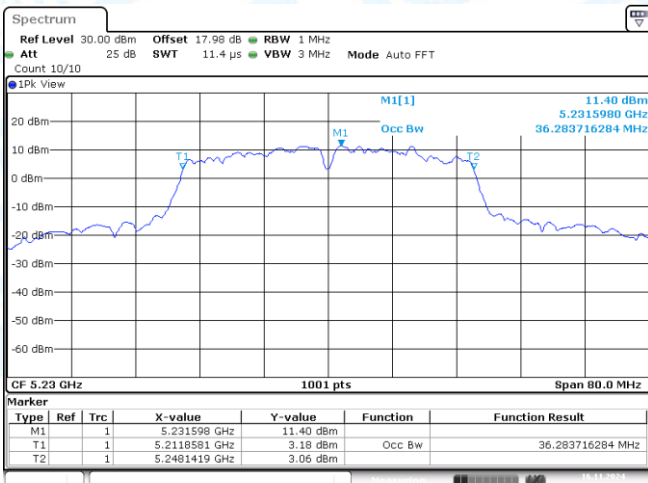
11AC20SISO-Ant1-5785



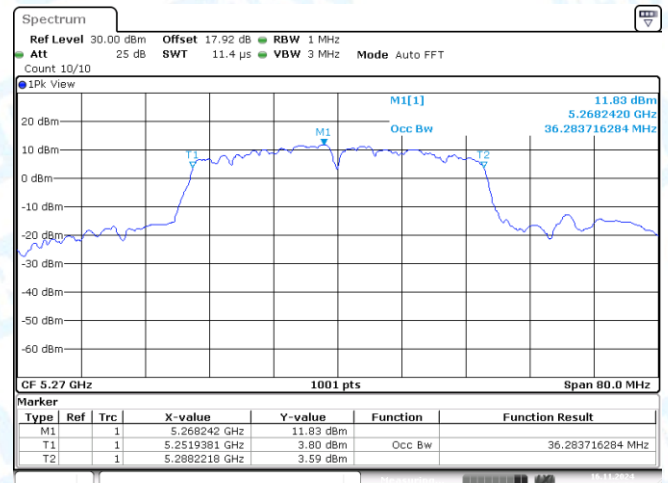
11AC20SISO-Ant1-5825



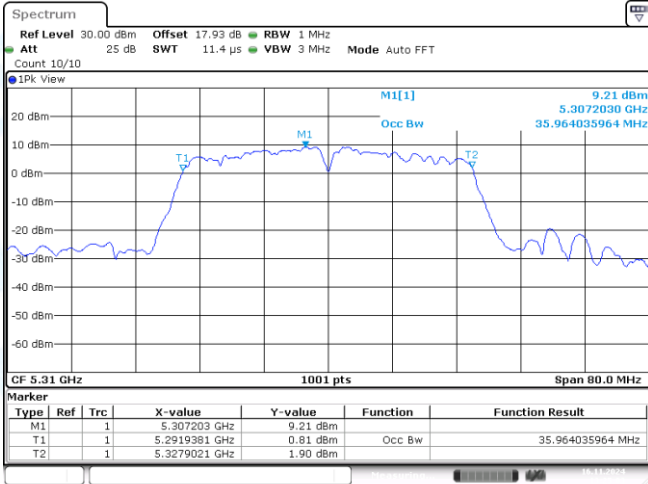
11AC40SISO-Ant1-5190



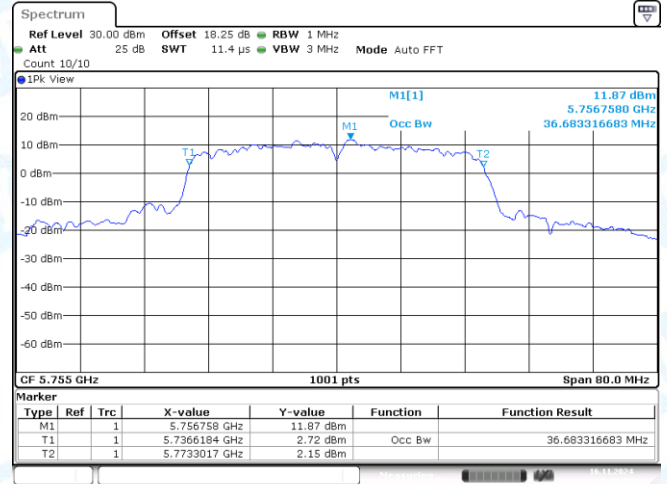
11AC40SISO-Ant1-5230



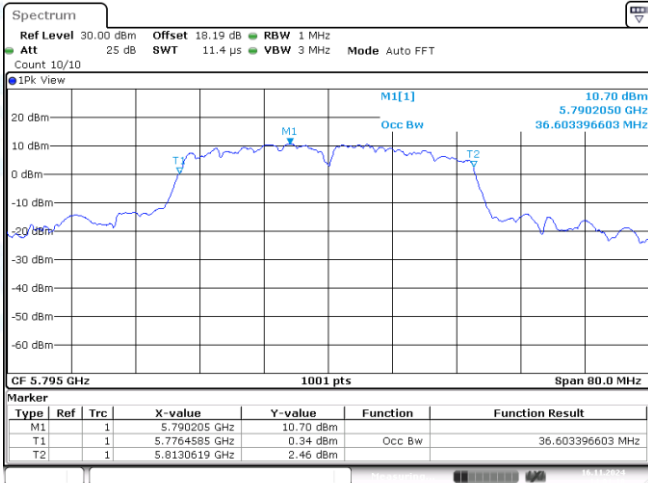
11AC40SISO-Ant1-5270



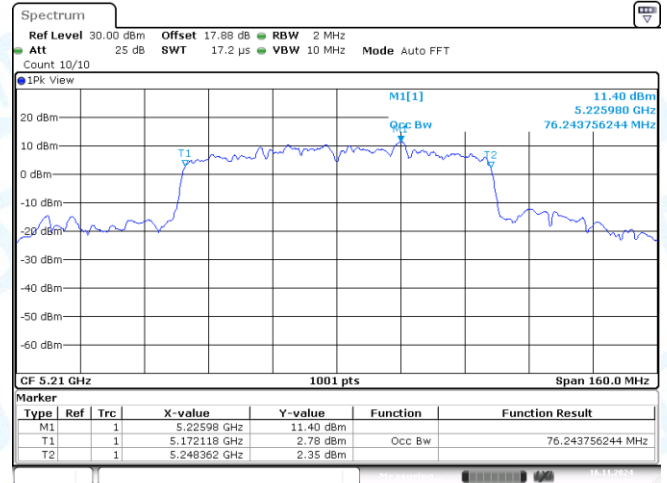
11AC40SISO-Ant1-5310



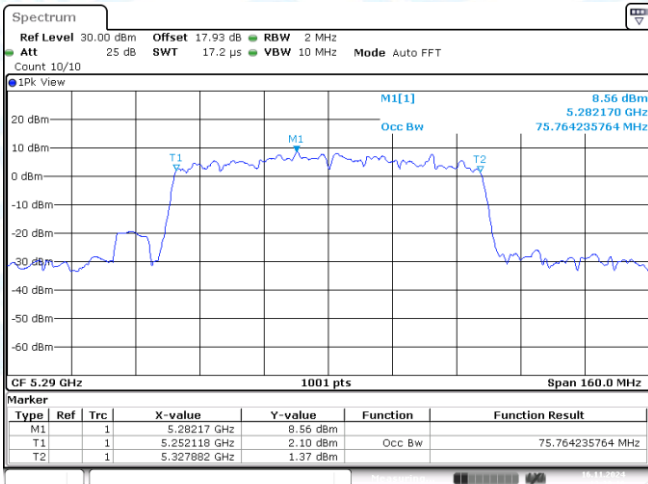
11AC40SISO-Ant1-5755



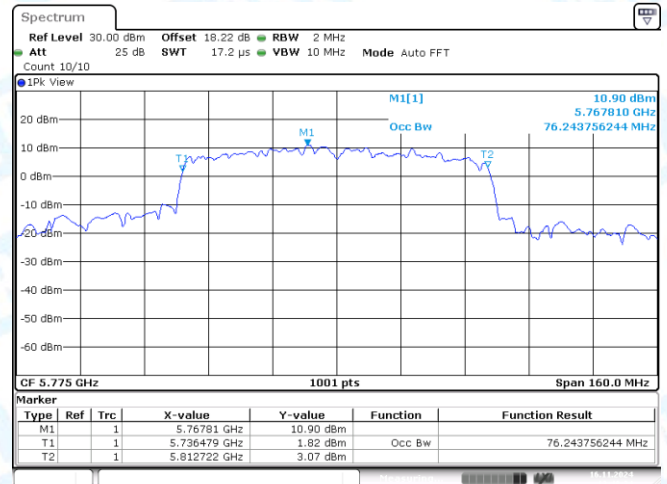
11AC40SISO-Ant1-5795



11AC80SISO-Ant1-5210



11AC80SISO-Ant1-5290



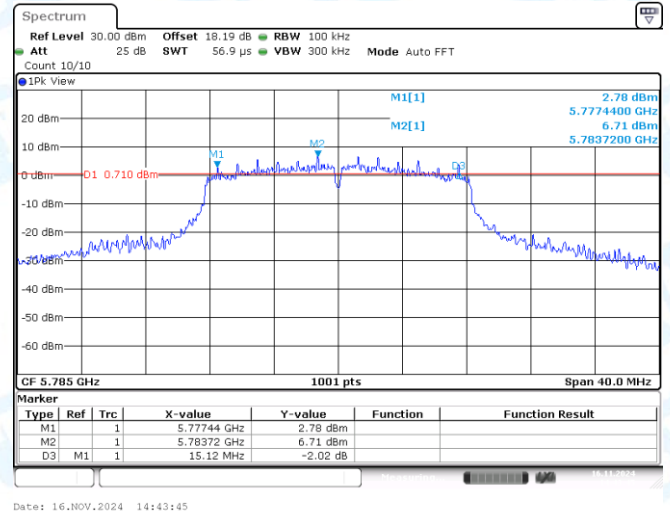
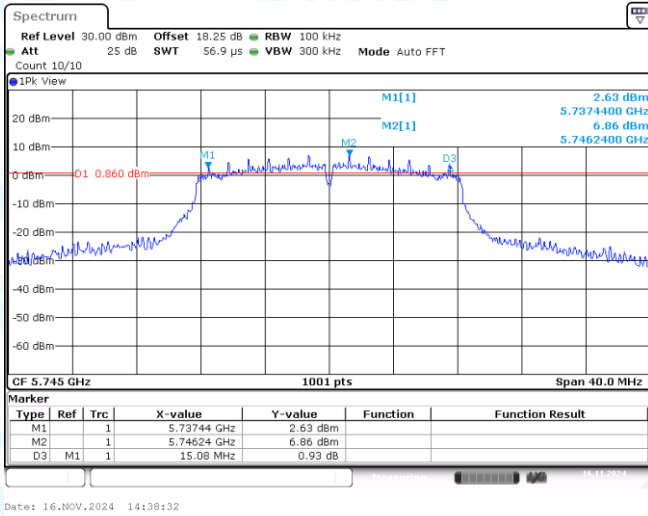
11AC80SISO-Ant1-5775

3: Min emission bandwidth

3.1 Test Result-B4

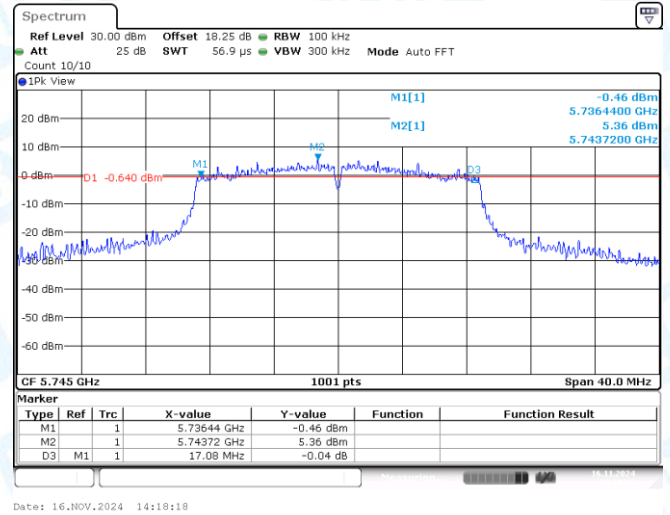
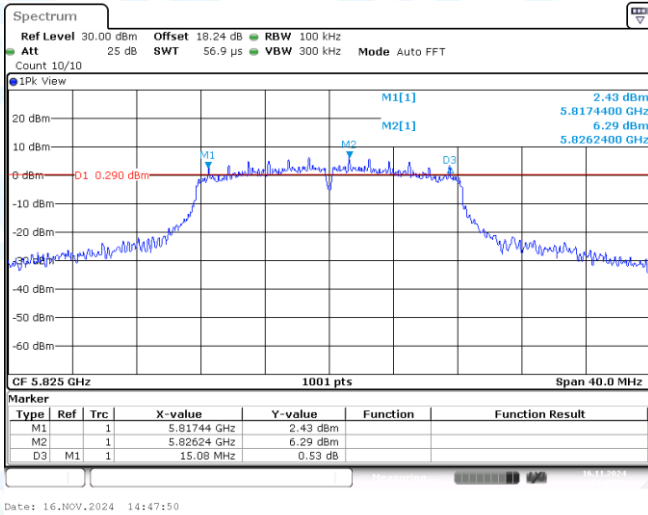
TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.08	5737.44	5752.52	0.5	PASS
11A	Ant1	5785	15.12	5777.44	5792.56	0.5	PASS
11A	Ant1	5825	15.08	5817.44	5832.52	0.5	PASS
11N20SISO	Ant1	5745	17.08	5736.44	5753.52	0.5	PASS
11N20SISO	Ant1	5785	13.92	5778.64	5792.56	0.5	PASS
11N20SISO	Ant1	5825	15.12	5817.44	5832.56	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
11N40SISO	Ant1	5795	35.12	5777.40	5812.52	0.5	PASS
11AC20SISO	Ant1	5745	16.64	5736.84	5753.48	0.5	PASS
11AC20SISO	Ant1	5785	13.88	5778.64	5792.52	0.5	PASS
11AC20SISO	Ant1	5825	15.12	5817.40	5832.52	0.5	PASS
11AC40SISO	Ant1	5755	30.08	5742.44	5772.52	0.5	PASS
11AC40SISO	Ant1	5795	35.12	5777.40	5812.52	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

3.2 Test Graphs-B4



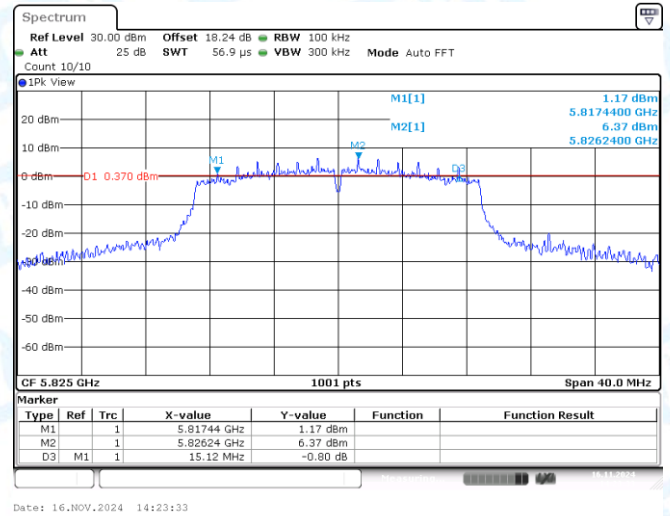
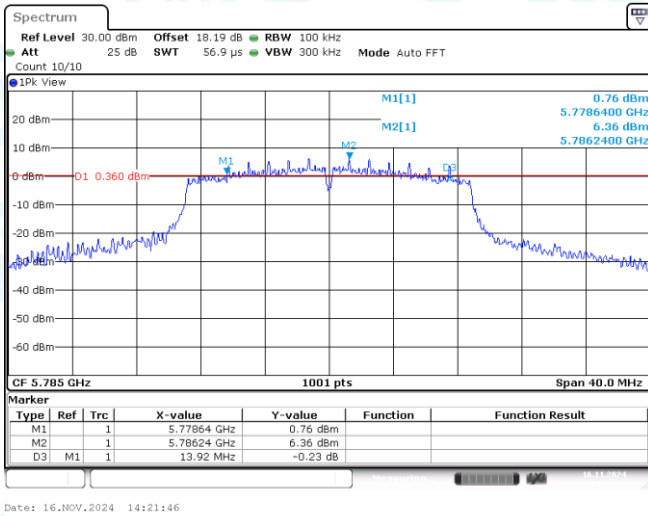
11A-Ant1-5745-PASS

11A-Ant1-5785-PASS



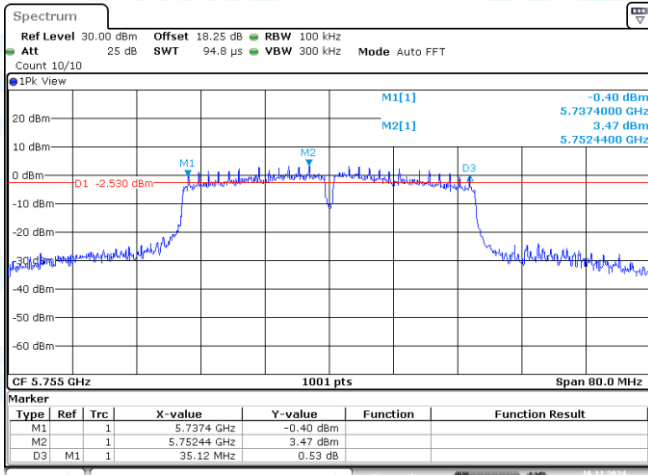
11A-Ant1-5825-PASS

11N20SISO-Ant1-5745-PASS



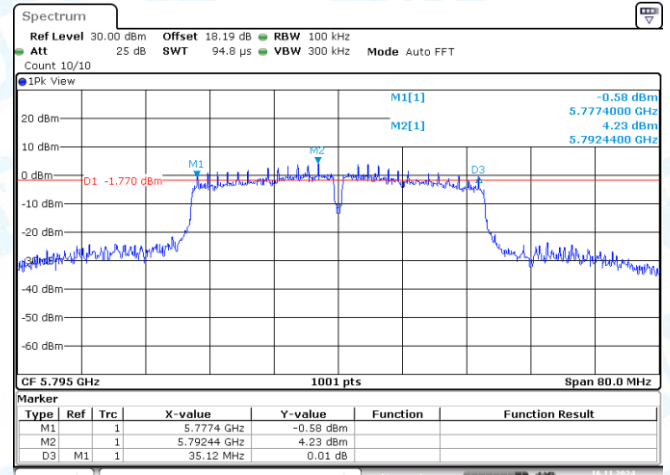
11N20SISO-Ant1-5785-PASS

11N20SISO-Ant1-5825-PASS



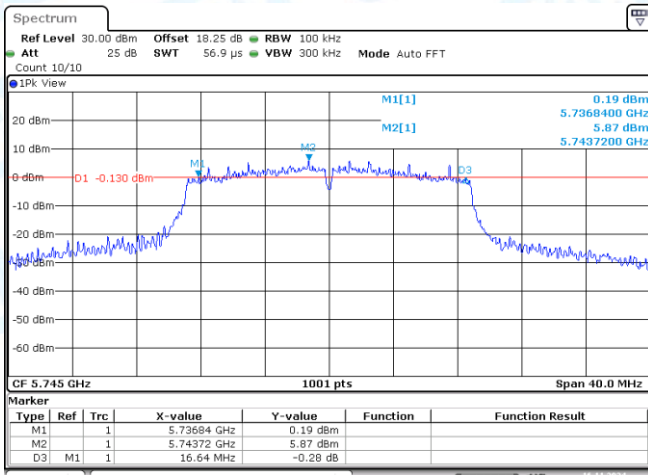
Date: 16.NOV.2024 14:26:50

11N40SISO-Ant1-5755-PASS



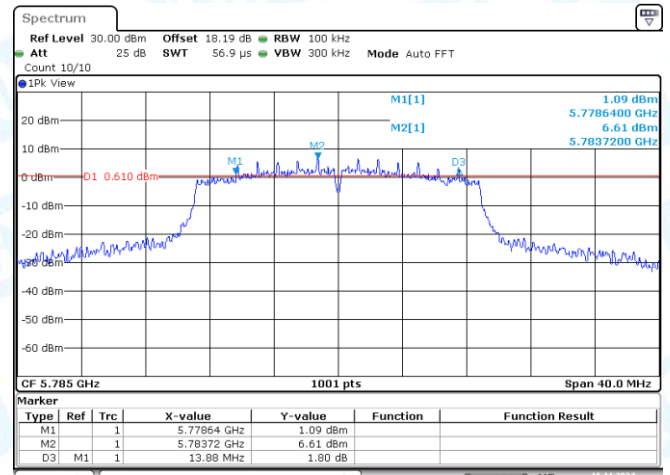
Date: 16.NOV.2024 14:32:35

11N40SISO-Ant1-5795-PASS



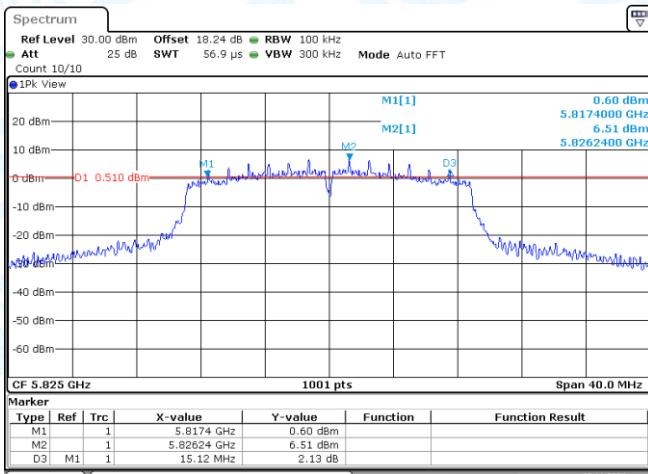
Date: 16.NOV.2024 14:06:06

11AC20SISO-Ant1-5745-PASS



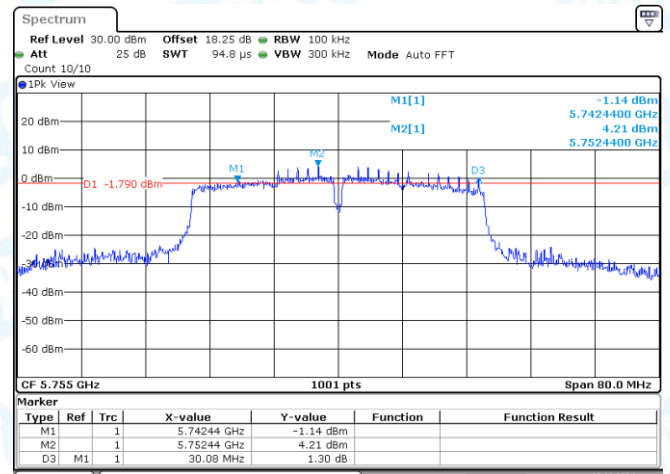
Date: 16.NOV.2024 14:09:15

11AC20SISO-Ant1-5785-PASS



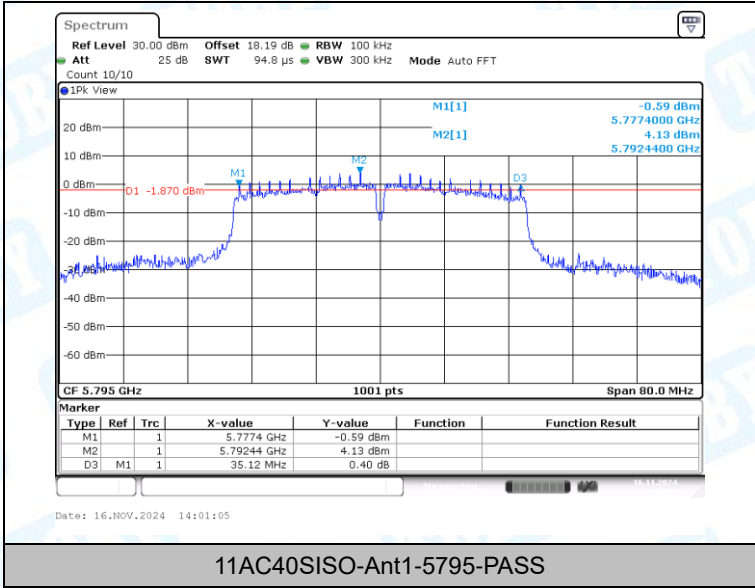
Date: 16.NOV.2024 14:12:10

11AC20SISO-Ant1-5825-PASS

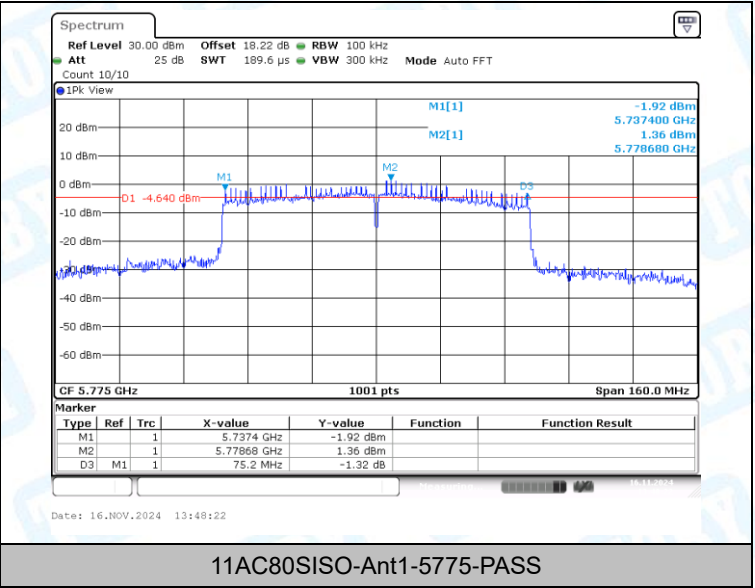


Date: 16.NOV.2024 13:56:46

11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5775-PASS

4: Duty Cycle

4.1 Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factory	1/T [kHz]
11A	Ant1	5180	1.39	1.44	96.53	0.15	0.72
11A	Ant1	5200	1.40	1.44	97.22	0.12	0.71
11A	Ant1	5240	1.39	1.44	96.53	0.15	0.72
11A	Ant1	5260	1.39	1.43	97.20	0.12	0.72
11A	Ant1	5280	1.39	1.43	97.20	0.12	0.72
11A	Ant1	5320	1.39	1.44	96.53	0.15	0.72
11A	Ant1	5745	1.40	1.44	97.22	0.12	0.71
11A	Ant1	5785	1.39	1.44	96.53	0.15	0.72
11A	Ant1	5825	1.39	1.44	96.53	0.15	0.72
11N20SISO	Ant1	5180	1.30	1.34	97.01	0.13	0.77
11N20SISO	Ant1	5200	1.30	1.35	96.30	0.16	0.77
11N20SISO	Ant1	5240	1.31	1.35	97.04	0.13	0.76
11N20SISO	Ant1	5260	1.30	1.34	97.01	0.13	0.77
11N20SISO	Ant1	5280	1.30	1.34	97.01	0.13	0.77
11N20SISO	Ant1	5320	1.30	1.34	97.01	0.13	0.77
11N20SISO	Ant1	5745	1.31	1.35	97.04	0.13	0.76
11N20SISO	Ant1	5785	1.31	1.35	97.04	0.13	0.76
11N20SISO	Ant1	5825	1.30	1.35	96.30	0.16	0.77
11N40SISO	Ant1	5190	0.65	0.69	94.20	0.26	1.54
11N40SISO	Ant1	5230	0.65	0.69	94.20	0.26	1.54
11N40SISO	Ant1	5270	0.65	0.70	92.86	0.32	1.54
11N40SISO	Ant1	5310	0.65	0.69	94.20	0.26	1.54
11N40SISO	Ant1	5755	0.64	0.69	92.75	0.33	1.56
11N40SISO	Ant1	5795	0.65	0.69	94.20	0.26	1.54
11AC20SISO	Ant1	5180	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5200	1.32	1.36	97.06	0.13	0.76
11AC20SISO	Ant1	5240	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5260	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5280	1.32	1.36	97.06	0.13	0.76
11AC20SISO	Ant1	5320	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5745	1.31	1.35	97.04	0.13	0.76
11AC20SISO	Ant1	5785	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5825	1.31	1.35	97.04	0.13	0.76
11AC40SISO	Ant1	5190	0.65	0.69	94.20	0.26	1.54
11AC40SISO	Ant1	5230	0.65	0.70	92.86	0.32	1.54
11AC40SISO	Ant1	5270	0.65	0.69	94.20	0.26	1.54
11AC40SISO	Ant1	5310	0.65	0.70	92.86	0.32	1.54
11AC40SISO	Ant1	5755	0.66	0.70	94.29	0.26	1.52
11AC40SISO	Ant1	5795	0.66	0.70	94.29	0.26	1.52
11AC80SISO	Ant1	5210	0.33	0.37	89.19	0.50	3.03

11AC80SISO	Ant1	5290	0.33	0.37	89.19	0.50	3.03
11AC80SISO	Ant1	5775	0.32	0.37	86.49	0.63	3.13

Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

2, DC Factory= $10 \times \log_{10}(1/\text{Duty Cycle})$

3, $1/T=1/\text{Transmission Duration}$