

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

General Description of EUT	
EUT Name:	projector
Model:	P4
Sample ID:	HC-C-202412-0058-01-01
Test Standard:	FCC Part 15.407
Environmental Conditions	
Ambient Temperature:	25°C
Ambient Humidity:	45%RH
Test Power Supply:	DC 15V
Test Engineer:	Rick chen
Note: For a more detailed features description, please refer to the report TBR-C-202412-0058-20	

Contents

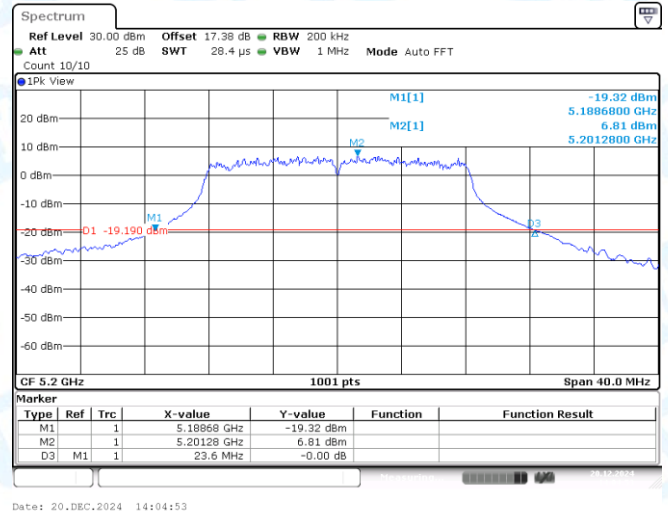
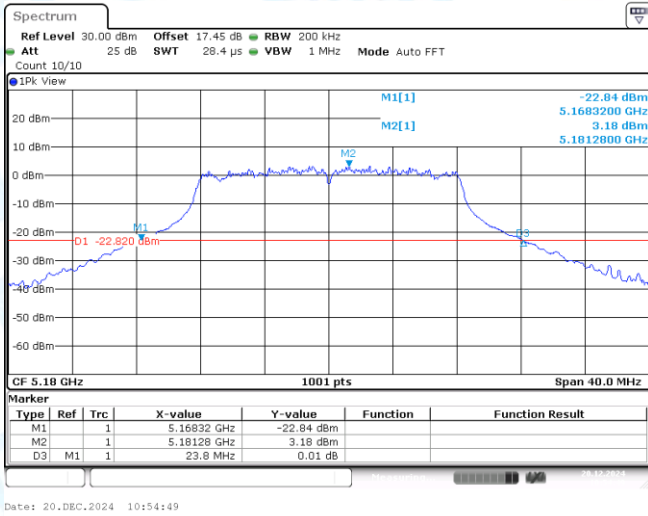
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1: Emission Bandwidth

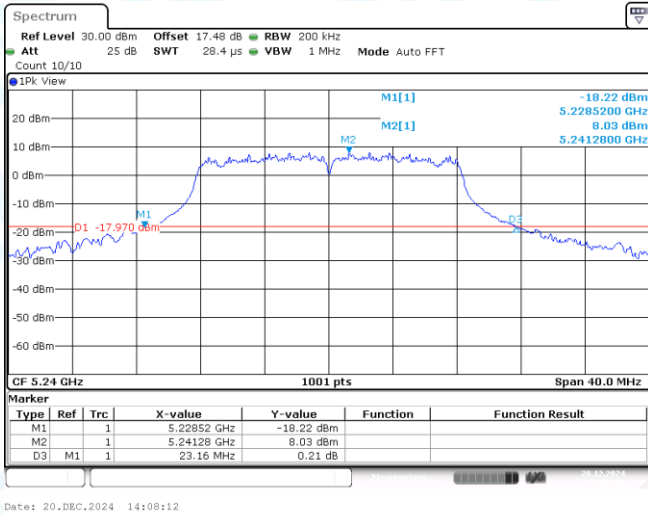
1.1 Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.80	5168.32	5192.12	---	---
11A	Ant1	5200	23.60	5188.68	5212.28	---	---
11A	Ant1	5240	23.16	5228.52	5251.68	---	---
11N20SISO	Ant1	5180	23.60	5168.76	5192.36	---	---
11N20SISO	Ant1	5200	24.44	5187.88	5212.32	---	---
11N20SISO	Ant1	5240	24.08	5227.72	5251.80	---	---
11N40SISO	Ant1	5190	44.32	5168.08	5212.40	---	---
11N40SISO	Ant1	5230	45.52	5207.60	5253.12	---	---
11AC20SISO	Ant1	5180	23.92	5168.32	5192.24	---	---
11AC20SISO	Ant1	5200	23.04	5188.92	5211.96	---	---
11AC20SISO	Ant1	5240	23.92	5228.20	5252.12	---	---
11AC40SISO	Ant1	5190	45.44	5168.16	5213.60	---	---
11AC40SISO	Ant1	5230	45.60	5207.76	5253.36	---	---
11AX20SISO	Ant1	5180	22.88	5168.84	5191.72	---	---
11AX20SISO	Ant1	5200	23.56	5188.44	5212.00	---	---
11AX20SISO	Ant1	5240	24.08	5228.16	5252.24	---	---
11AX40SISO	Ant1	5190	43.68	5168.56	5212.24	---	---
11AX40SISO	Ant1	5230	44.32	5208.24	5252.56	---	---

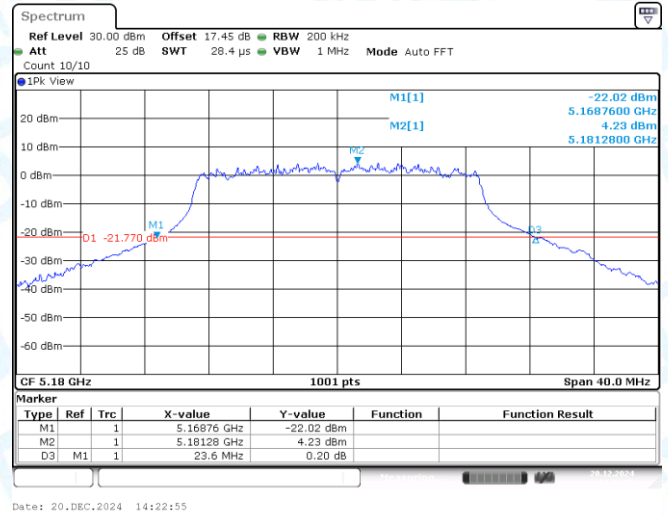
1.2 Test Graphs



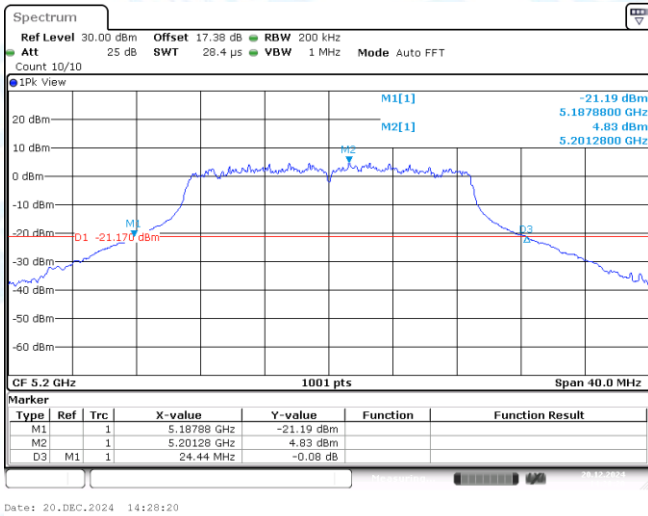
11A-Ant1-5180



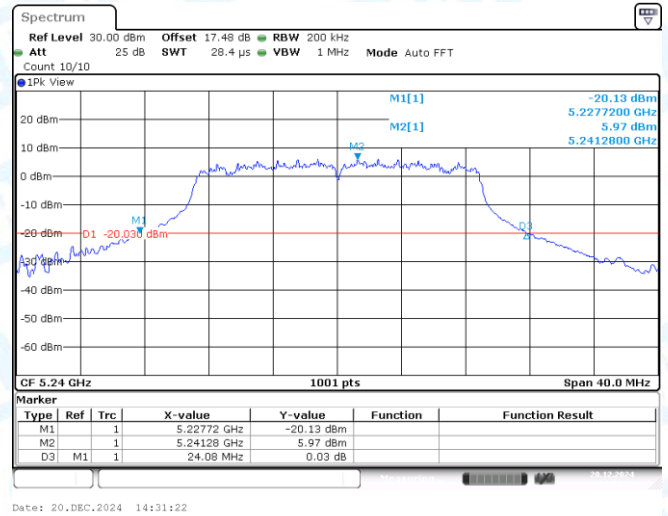
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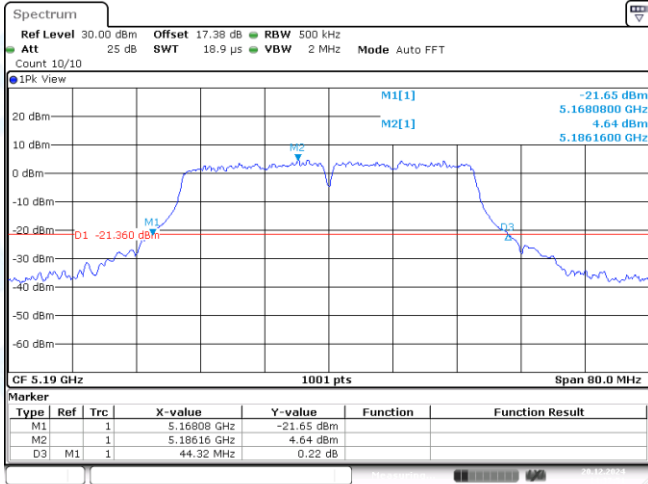
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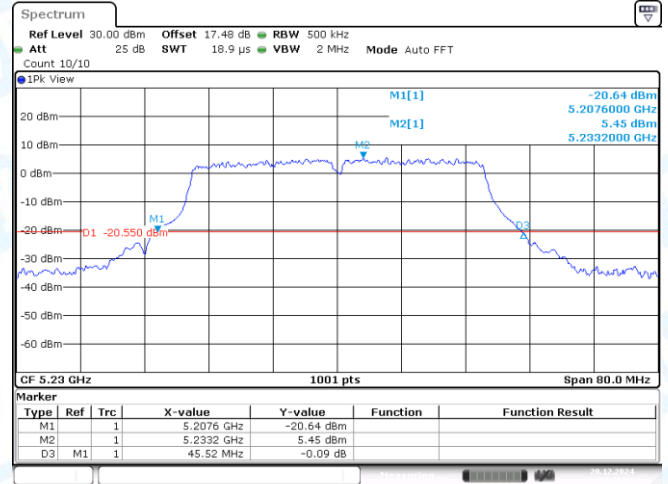
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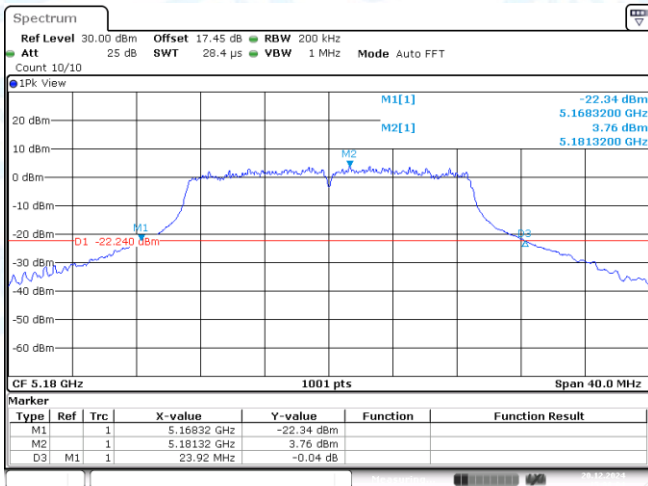
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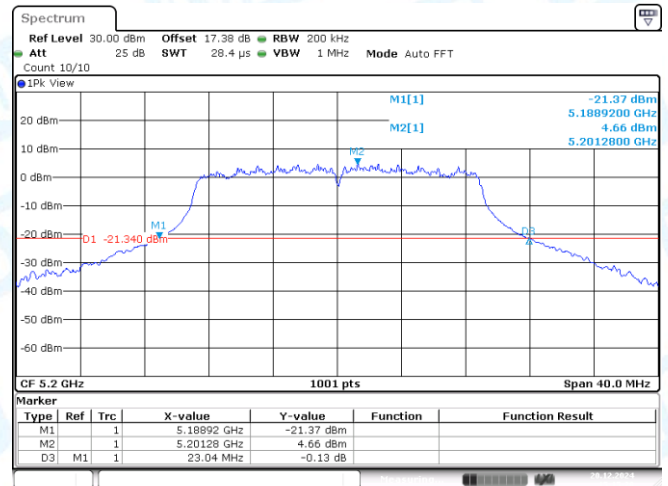
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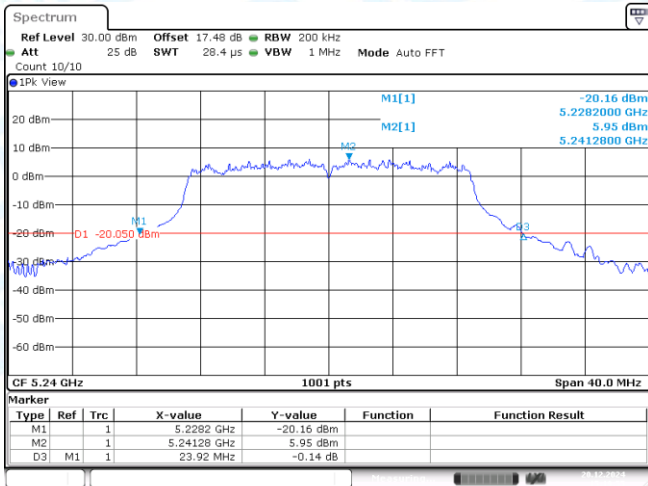
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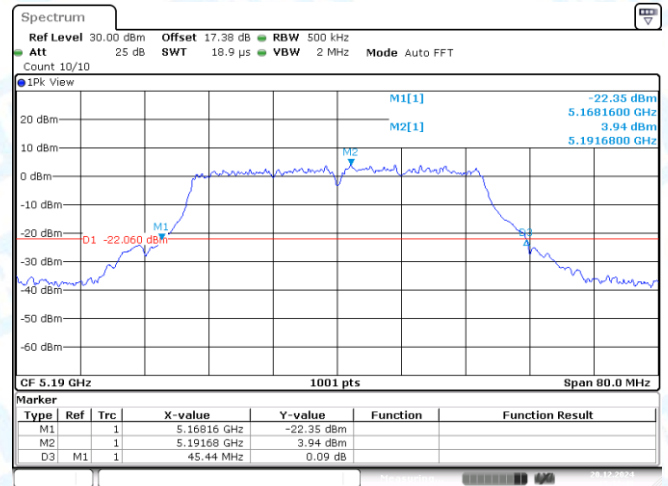
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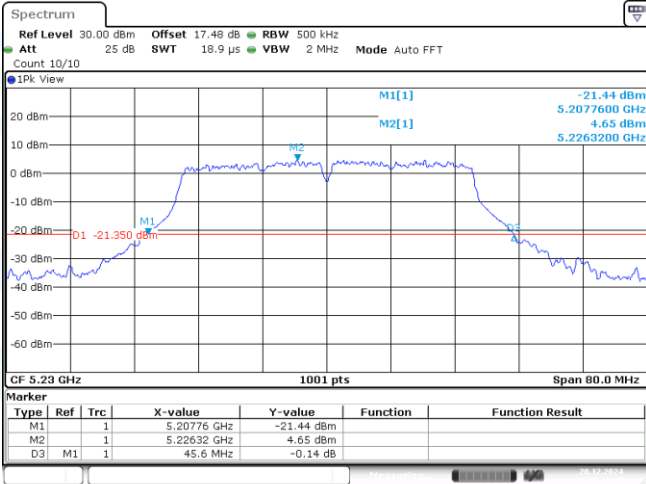
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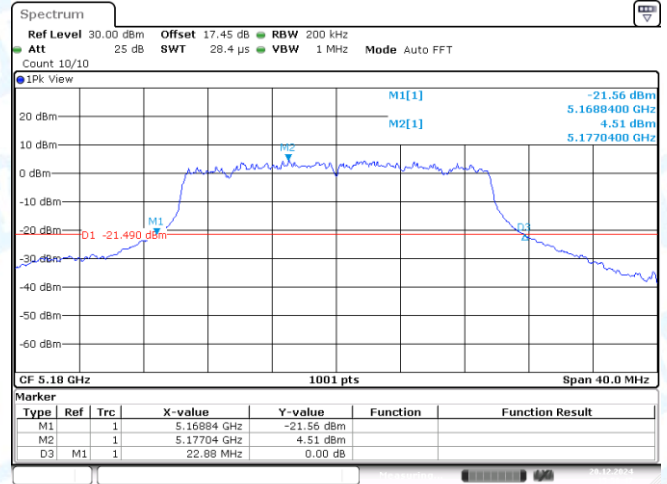
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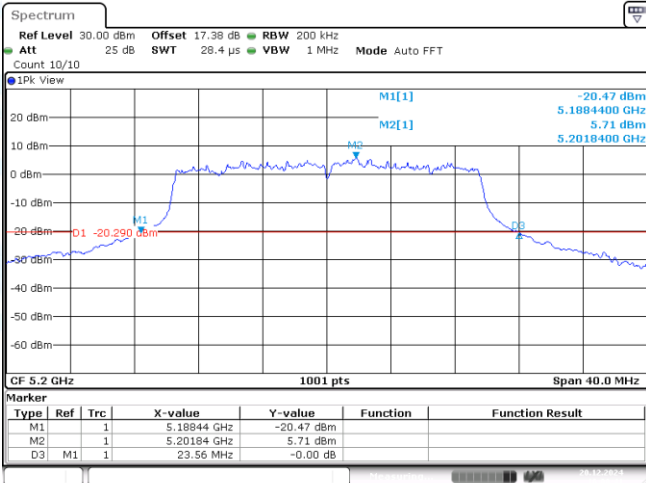
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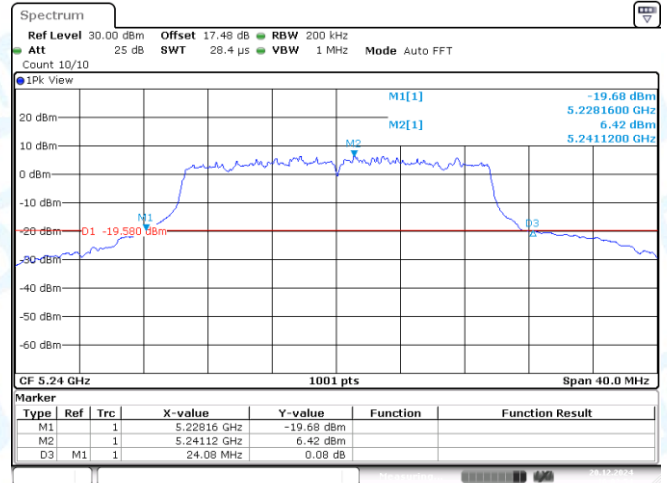
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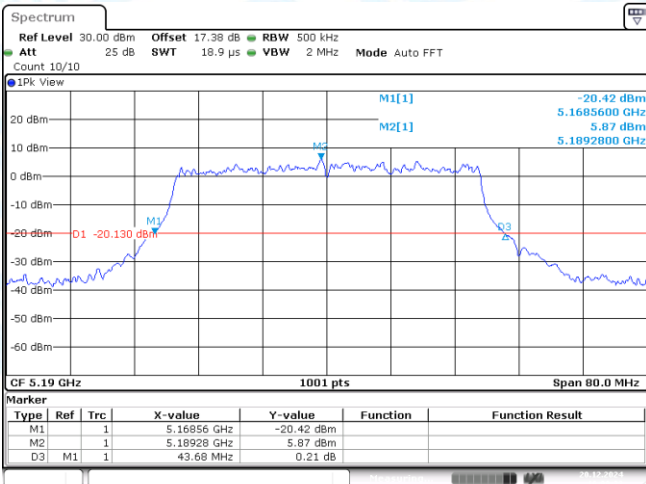
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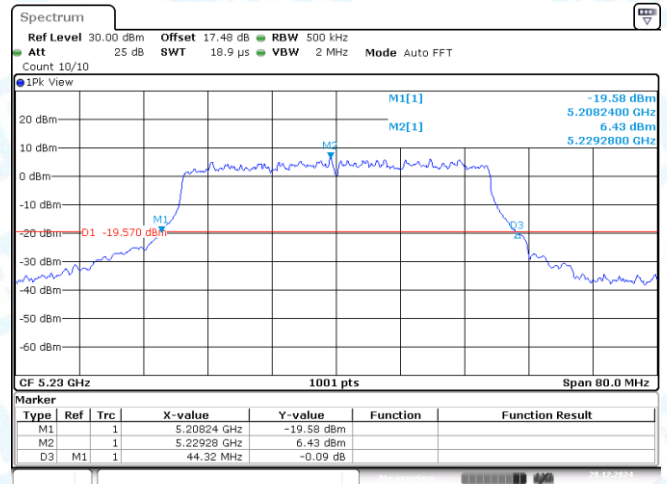
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11AX20SISO-Ant1-5240



11AX40SISO-Ant1-5190



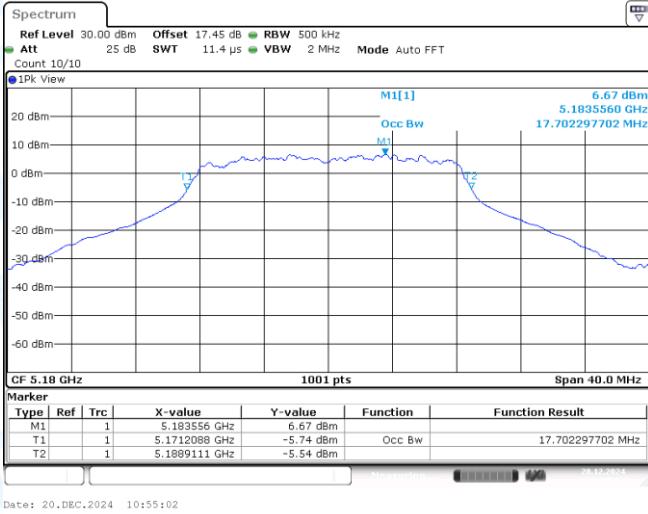
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2: Occupied channel bandwidth

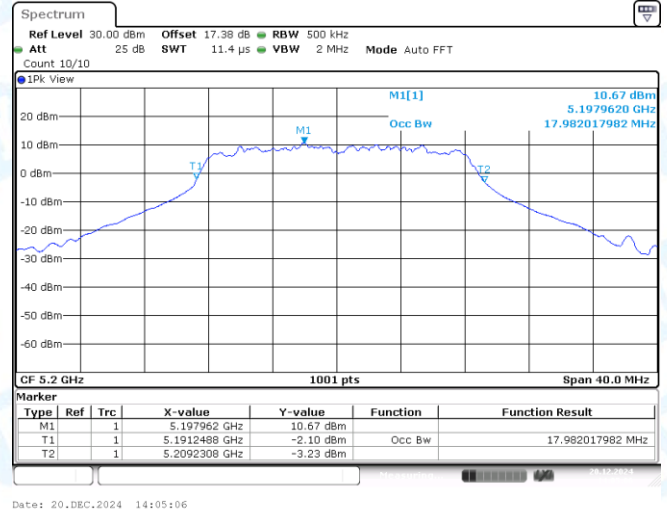
2.1 Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.702	5171.2088	5188.9111	---	---
11A	Ant1	5200	17.982	5191.2488	5209.2308	---	---
11A	Ant1	5240	17.942	5230.9291	5248.8711	---	---
11A	Ant1	5745	18.102	5735.8092	5753.9111	---	---
11A	Ant1	5785	18.581	5775.6893	5794.2707	---	---
11A	Ant1	5825	17.662	5816.2488	5833.9111	---	---
11N20SISO	Ant1	5180	18.541	5170.7293	5189.2707	---	---
11N20SISO	Ant1	5200	19.141	5190.6094	5209.7502	---	---
11N20SISO	Ant1	5240	18.941	5230.3696	5249.3107	---	---
11N20SISO	Ant1	5745	19.301	5735.2098	5754.5105	---	---
11N20SISO	Ant1	5785	19.74	5775.3696	5795.1099	---	---
11N20SISO	Ant1	5825	19.86	5814.6104	5834.4705	---	---
11N40SISO	Ant1	5190	37.083	5171.4585	5208.5415	---	---
11N40SISO	Ant1	5230	36.683	5211.6184	5248.3017	---	---
11N40SISO	Ant1	5755	37.243	5736.2987	5773.5415	---	---
11N40SISO	Ant1	5795	37.882	5775.4995	5813.3816	---	---
11AC20SISO	Ant1	5180	18.621	5170.7692	5189.3906	---	---
11AC20SISO	Ant1	5200	18.861	5190.7692	5209.6304	---	---
11AC20SISO	Ant1	5240	18.541	5230.7293	5249.2707	---	---
11AC20SISO	Ant1	5745	18.981	5735.5295	5754.5105	---	---
11AC20SISO	Ant1	5785	19.261	5775.1299	5794.3906	---	---
11AC20SISO	Ant1	5825	19.021	5815.4096	5834.4306	---	---
11AC40SISO	Ant1	5190	36.683	5171.8581	5208.5415	---	---
11AC40SISO	Ant1	5230	36.603	5211.6983	5248.3017	---	---
11AC40SISO	Ant1	5755	37.163	5736.2987	5773.4615	---	---
11AC40SISO	Ant1	5795	37.483	5775.8991	5813.3816	---	---
11AX20SISO	Ant1	5180	19.341	5170.4496	5189.7902	---	---
11AX20SISO	Ant1	5200	19.74	5190.0500	5209.7902	---	---
11AX20SISO	Ant1	5240	19.341	5230.4496	5249.7902	---	---
11AX20SISO	Ant1	5745	20.02	5734.8501	5754.8701	---	---
11AX20SISO	Ant1	5785	20.42	5774.7303	5795.1499	---	---
11AX20SISO	Ant1	5825	19.54	5815.2498	5834.7902	---	---
11AX40SISO	Ant1	5190	38.122	5171.0589	5209.1808	---	---
11AX40SISO	Ant1	5230	37.882	5211.1389	5249.0210	---	---
11AX40SISO	Ant1	5755	38.282	5735.7393	5774.0210	---	---
11AX40SISO	Ant1	5795	38.442	5775.5794	5814.0210	---	---

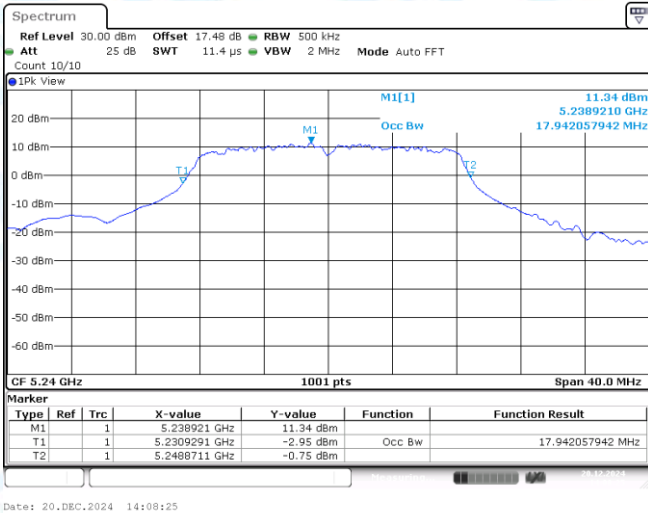
2.2 Test Graphs



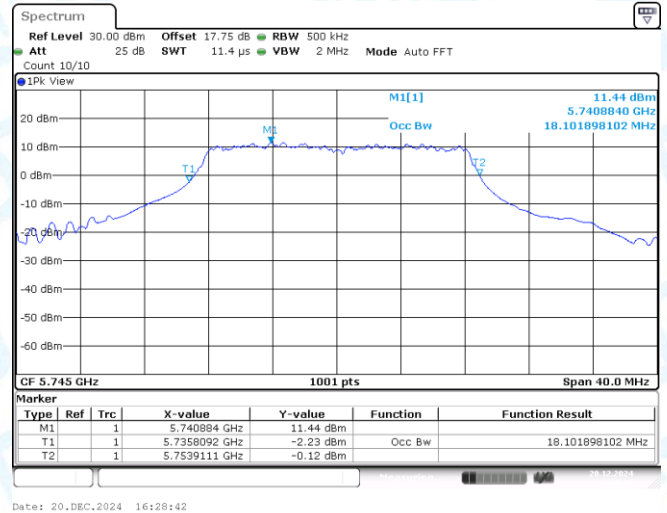
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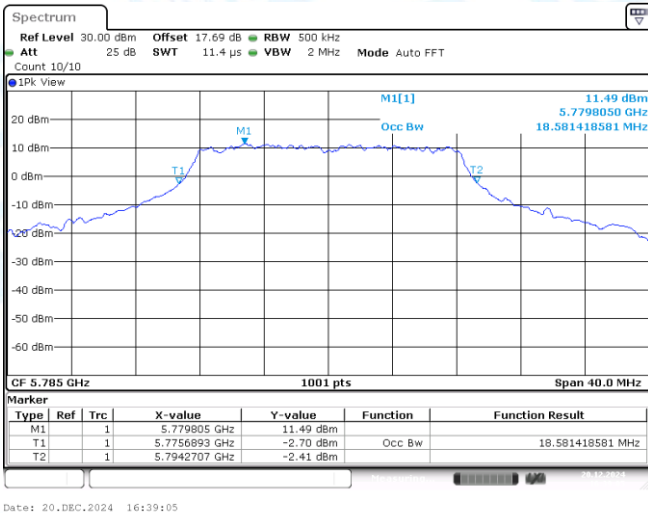
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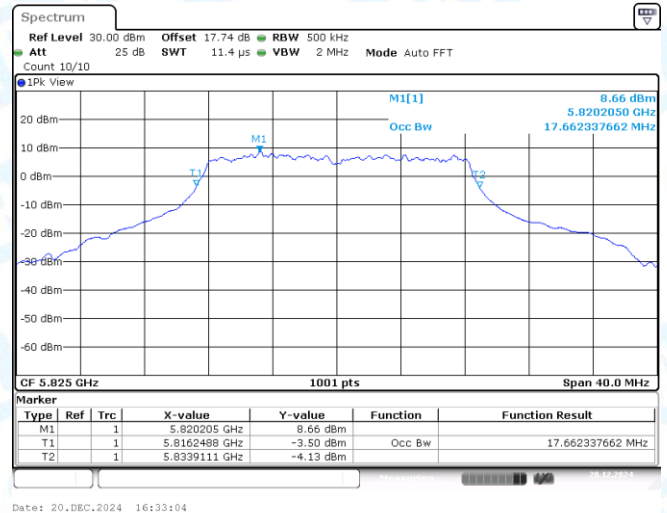
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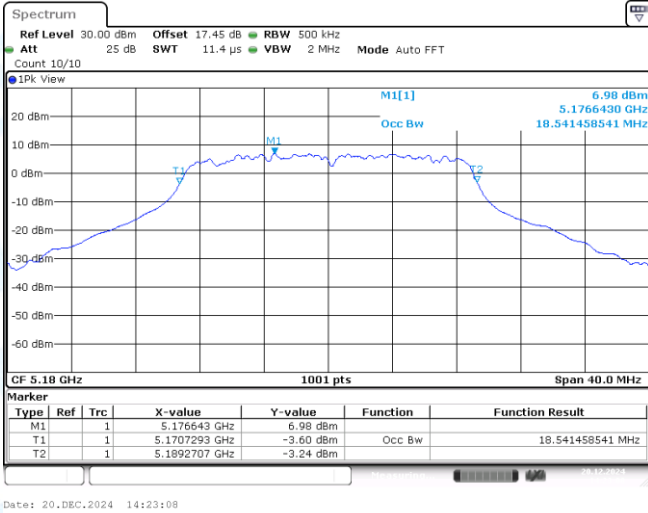
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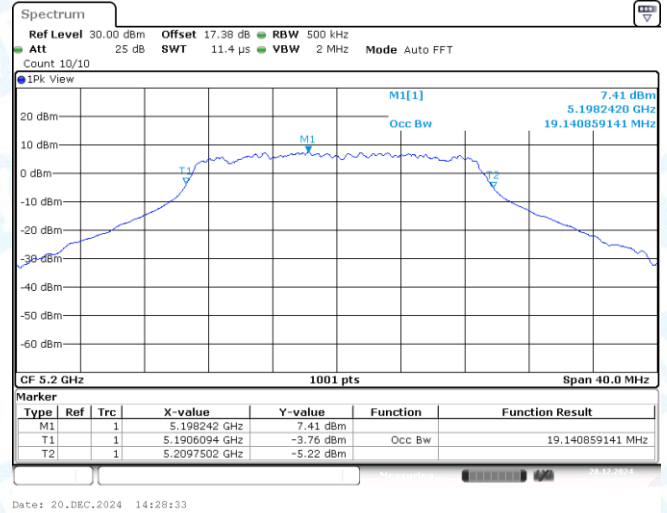
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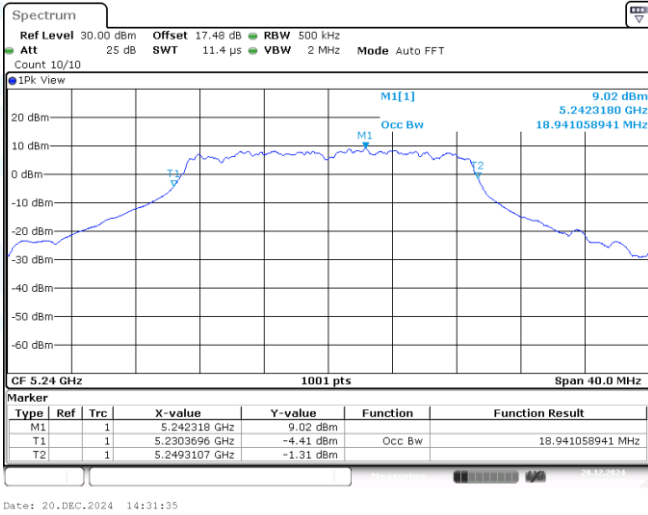
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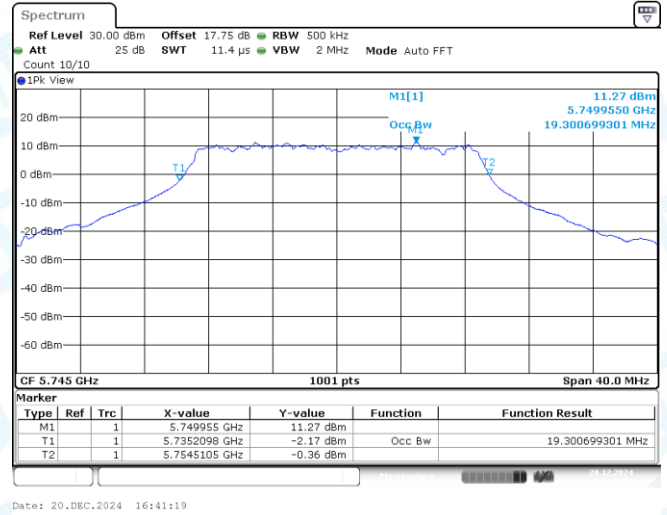
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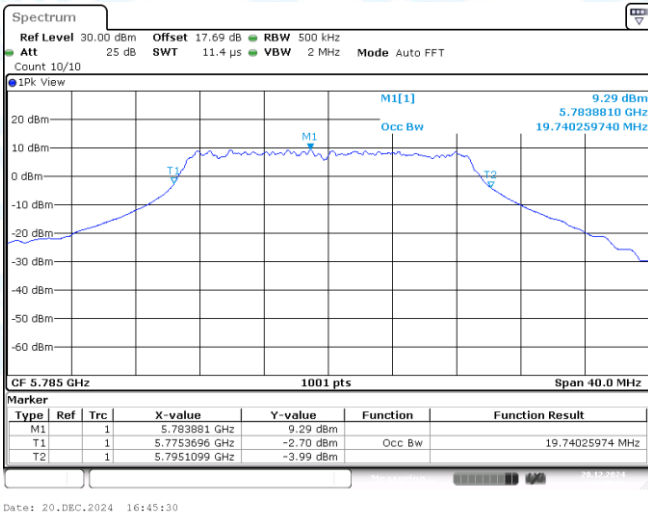
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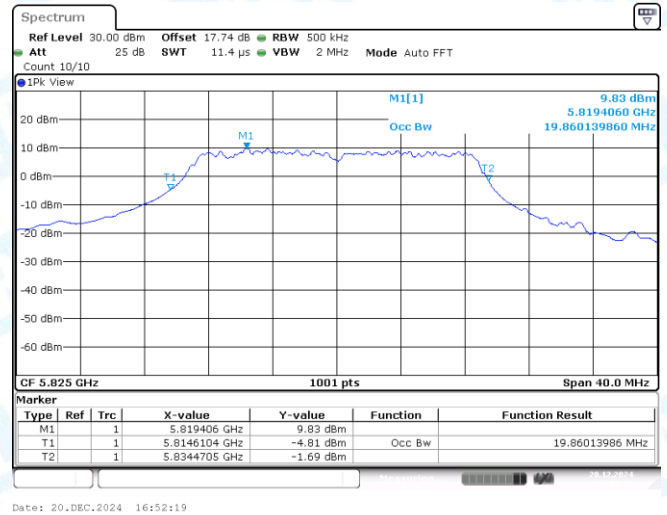
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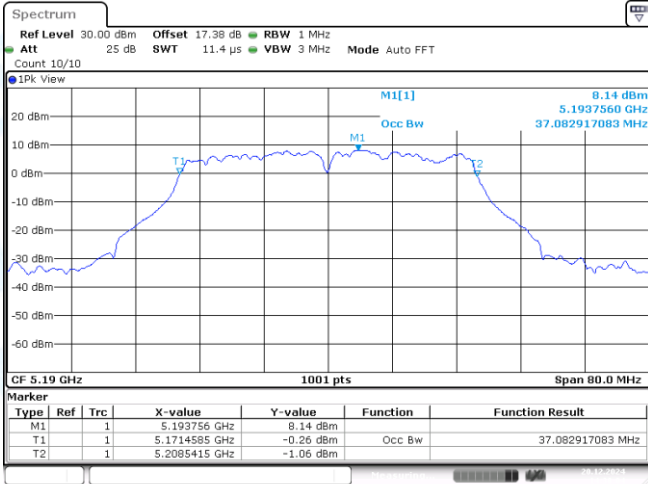
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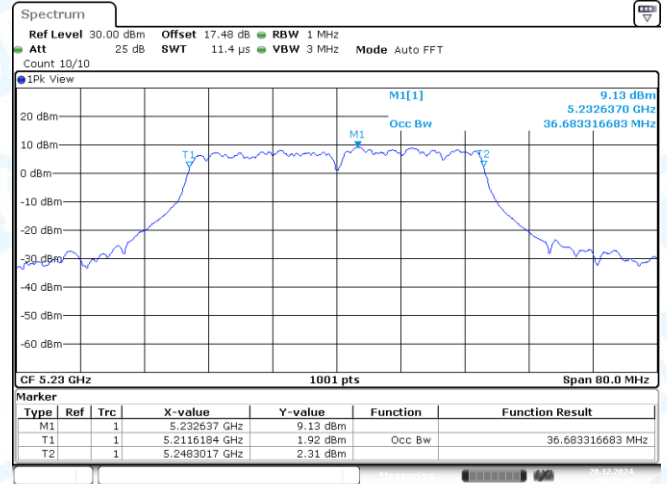
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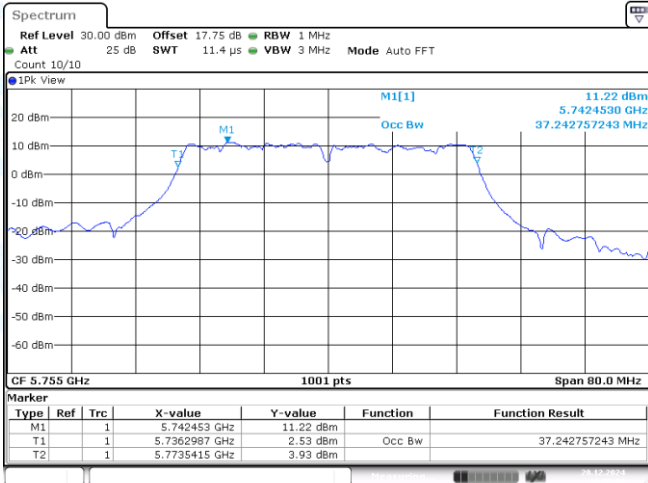
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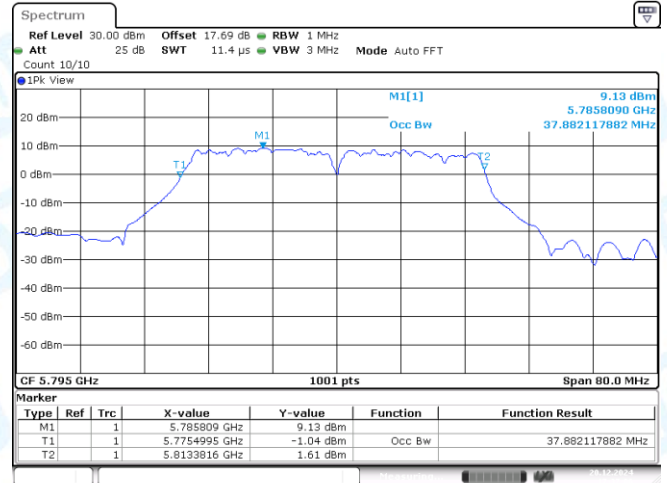
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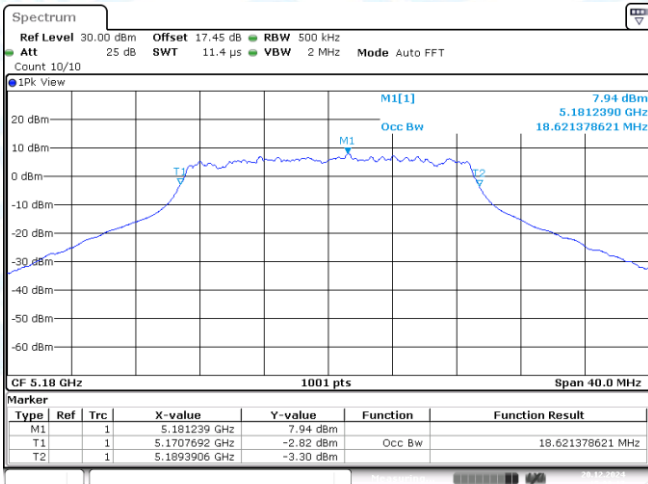
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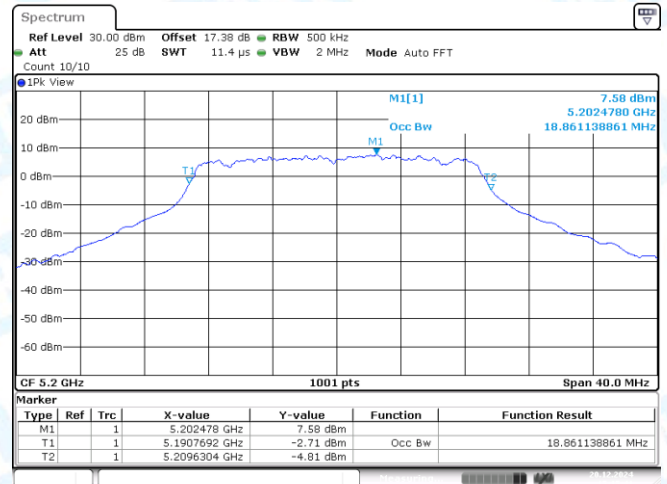
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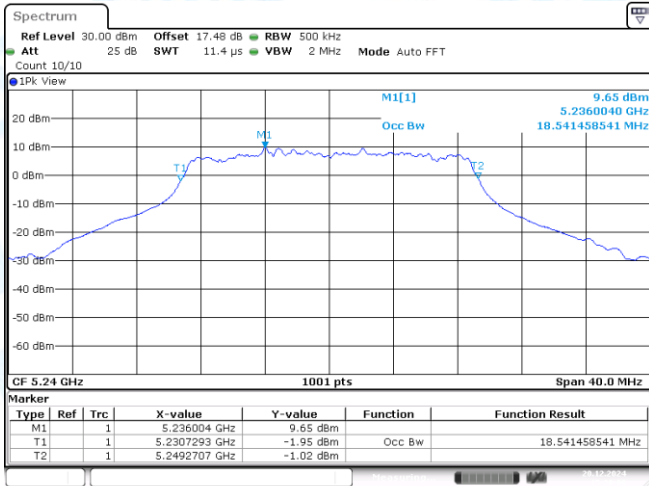
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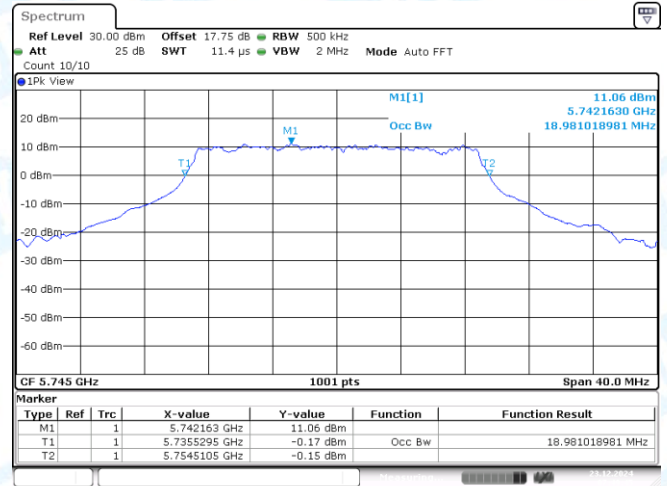
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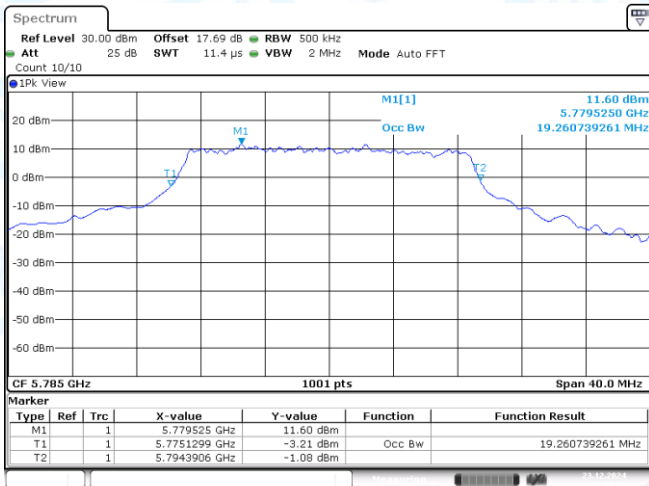
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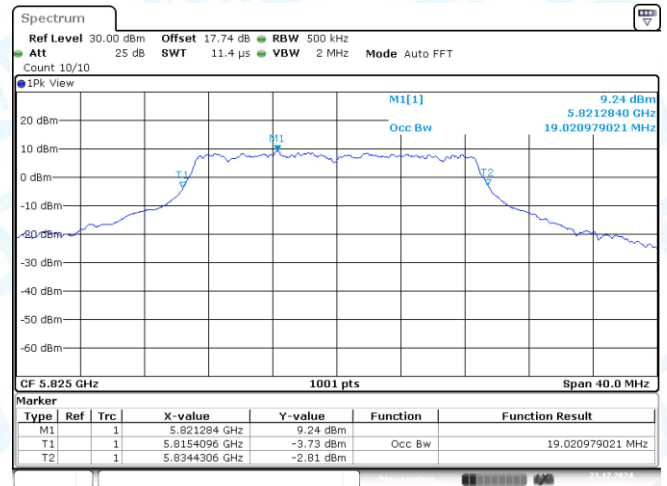
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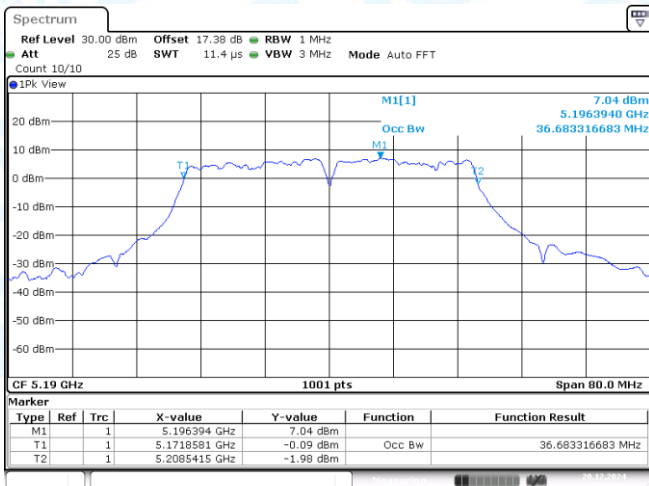
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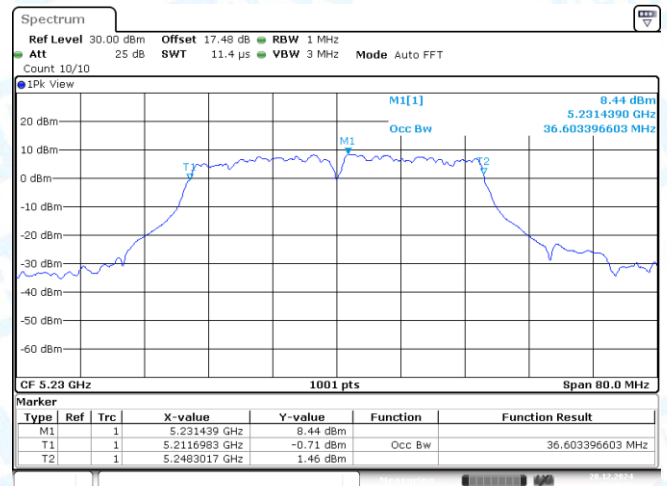
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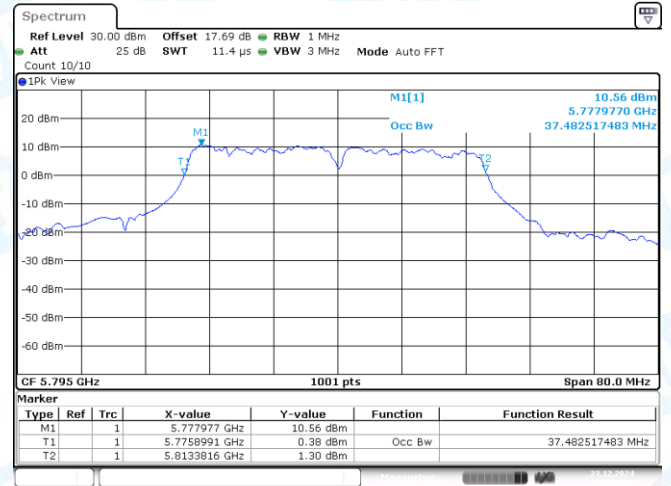
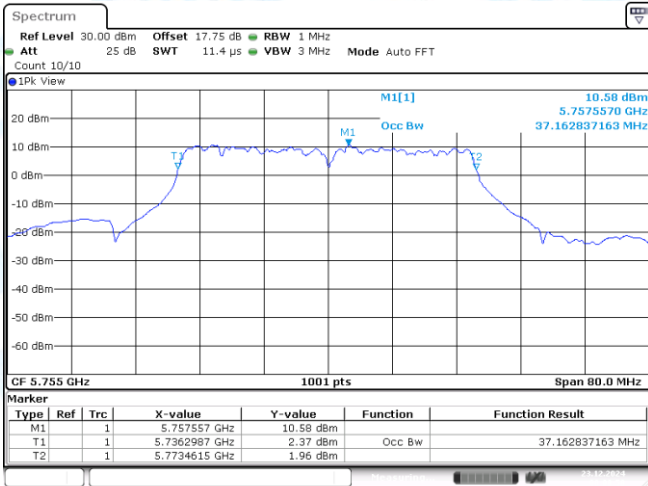
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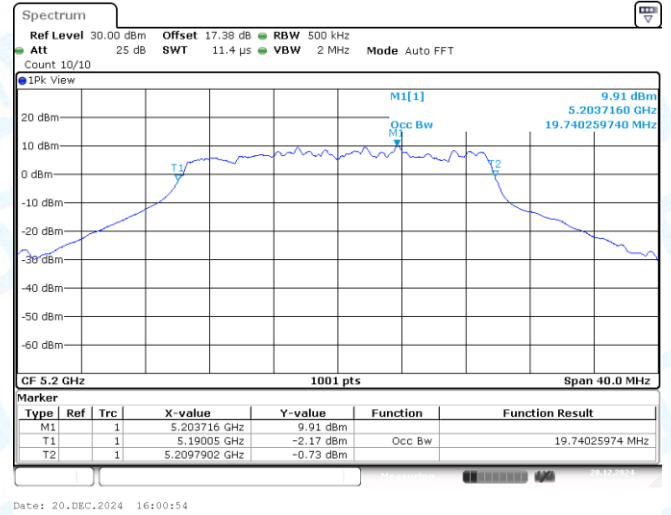
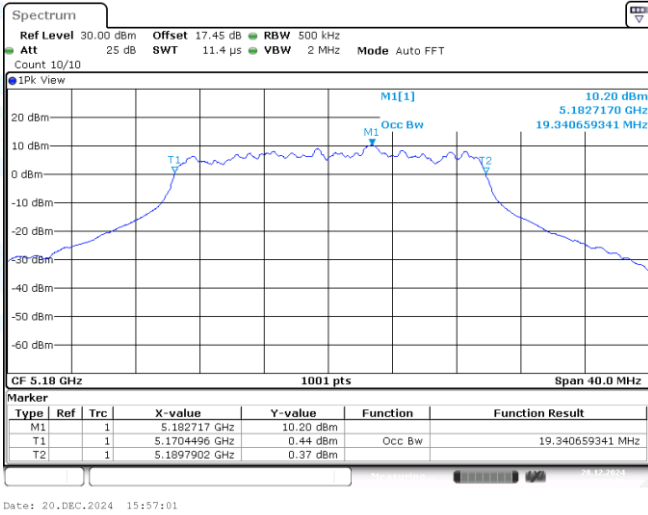


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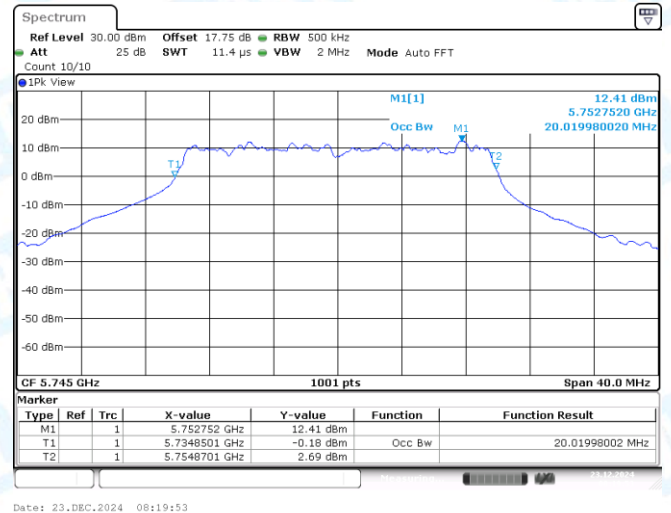
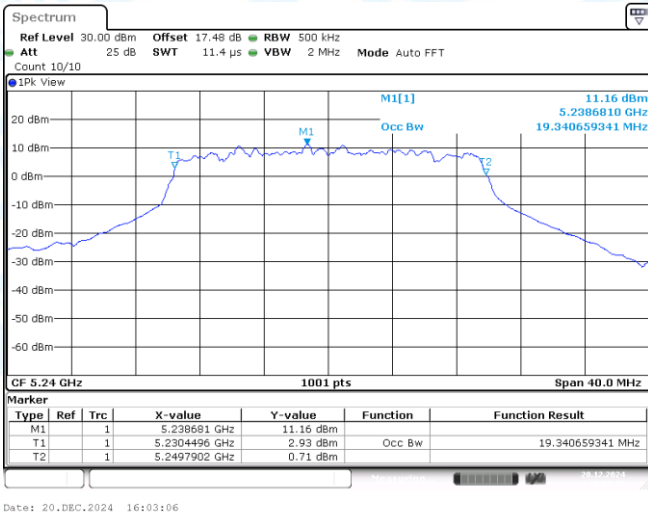
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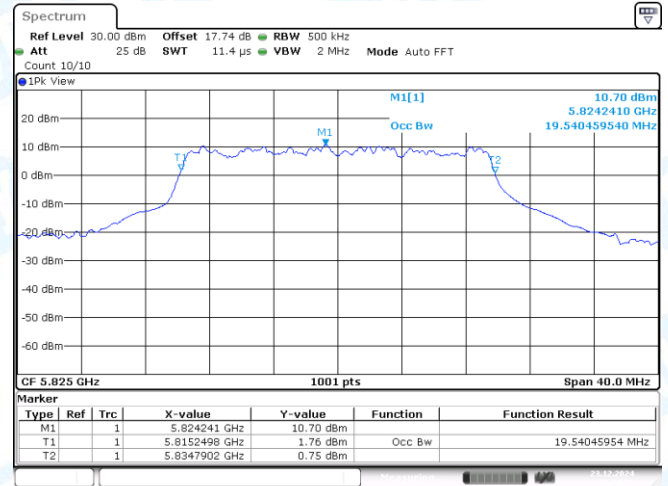
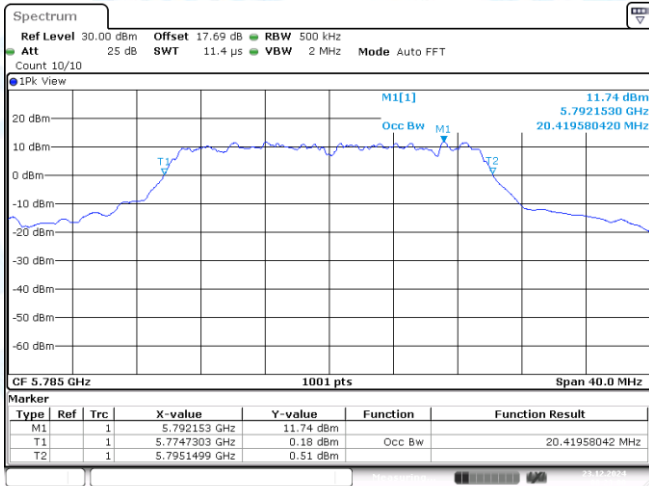
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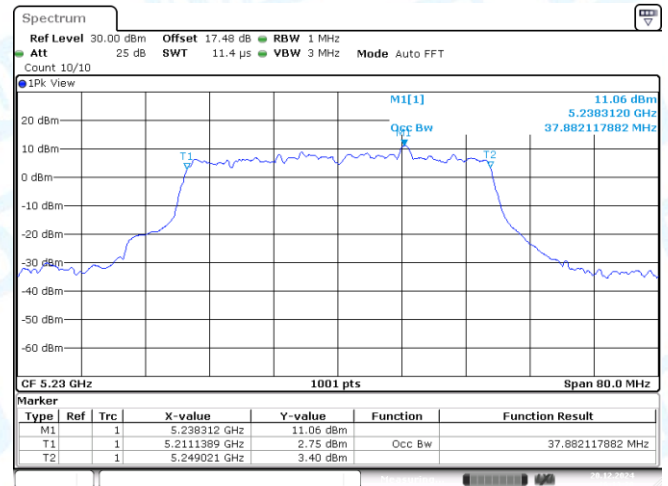
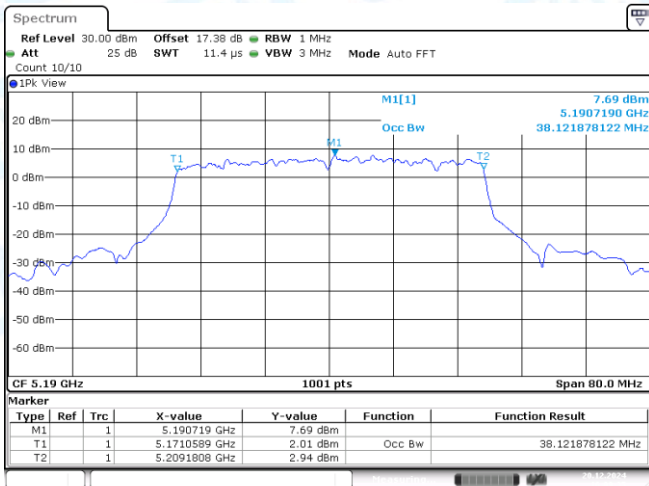
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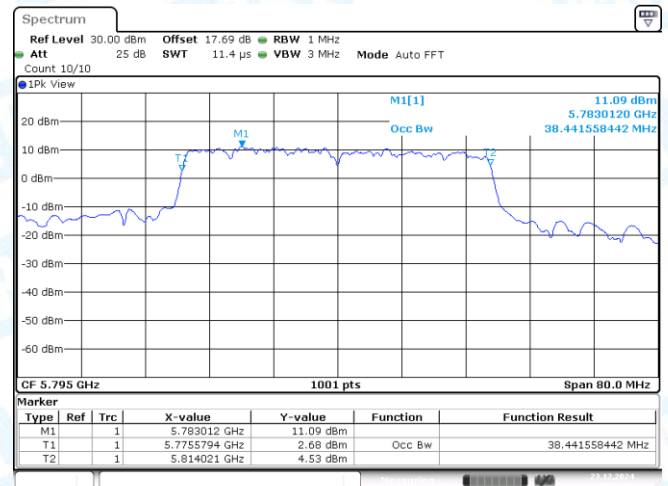
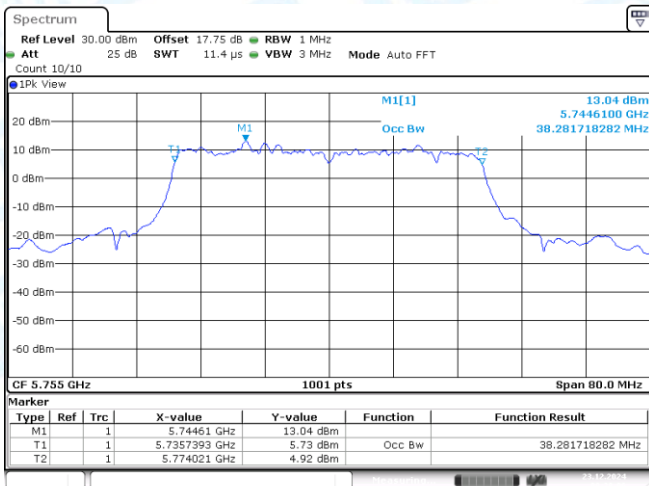
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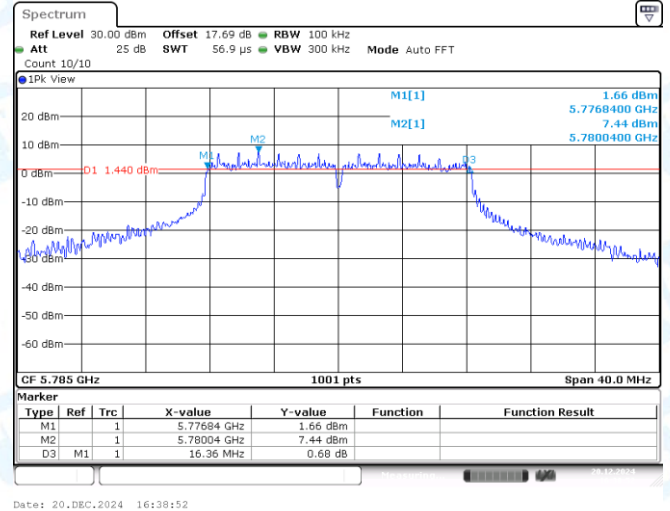
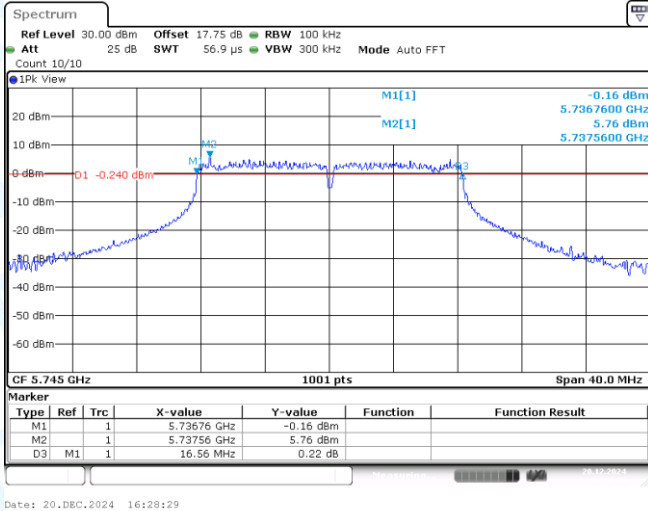
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3: Min emission bandwidth

3.1 Test Result-B4

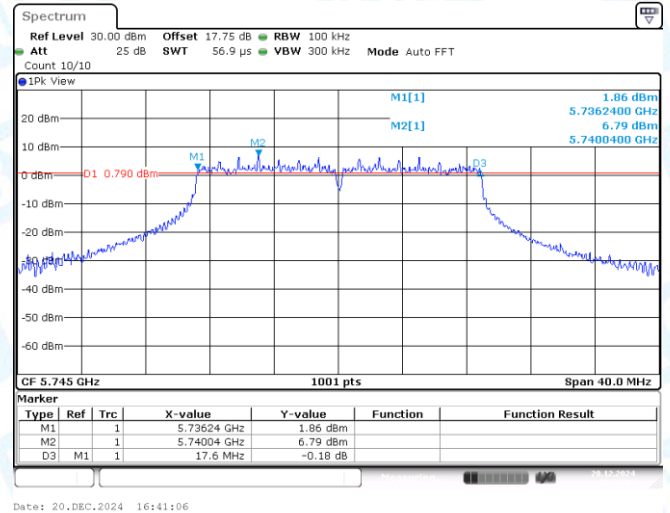
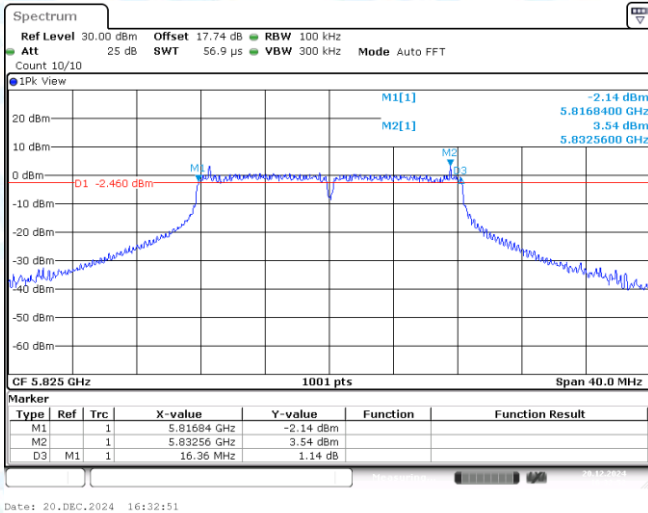
TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.56	5736.76	5753.32	0.5	PASS
11A	Ant1	5785	16.36	5776.84	5793.20	0.5	PASS
11A	Ant1	5825	16.36	5816.84	5833.20	0.5	PASS
11N20SISO	Ant1	5745	17.60	5736.24	5753.84	0.5	PASS
11N20SISO	Ant1	5785	17.60	5776.24	5793.84	0.5	PASS
11N20SISO	Ant1	5825	17.60	5816.24	5833.84	0.5	PASS
11N40SISO	Ant1	5755	36.40	5736.84	5773.24	0.5	PASS
11N40SISO	Ant1	5795	36.32	5776.84	5813.16	0.5	PASS
11AC20SISO	Ant1	5745	17.56	5736.24	5753.80	0.5	PASS
11AC20SISO	Ant1	5785	17.60	5776.20	5793.80	0.5	PASS
11AC20SISO	Ant1	5825	17.60	5816.16	5833.76	0.5	PASS
11AC40SISO	Ant1	5755	36.40	5736.76	5773.16	0.5	PASS
11AC40SISO	Ant1	5795	36.40	5776.76	5813.16	0.5	PASS
11AX20SISO	Ant1	5745	18.92	5735.48	5754.40	0.5	PASS
11AX20SISO	Ant1	5785	18.80	5775.44	5794.24	0.5	PASS
11AX20SISO	Ant1	5825	18.92	5815.52	5834.44	0.5	PASS
11AX40SISO	Ant1	5755	38.08	5735.88	5773.96	0.5	PASS
11AX40SISO	Ant1	5795	38.00	5775.96	5813.96	0.5	PASS

3.2 Test Graphs-B4



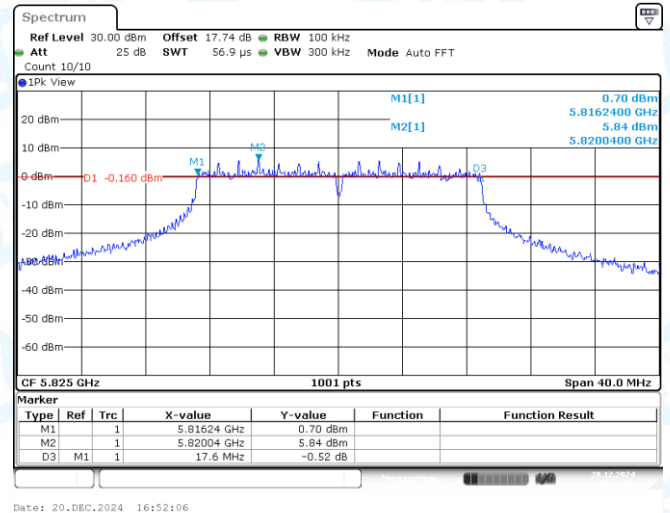
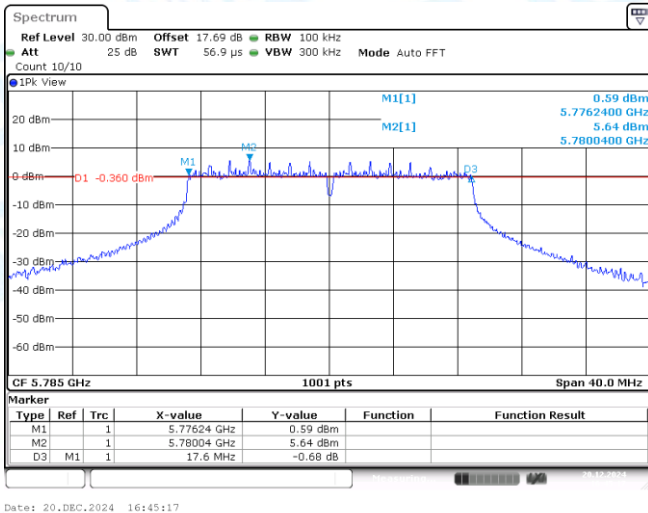
11A-Ant1-5745-PASS

11A-Ant1-5785-PASS



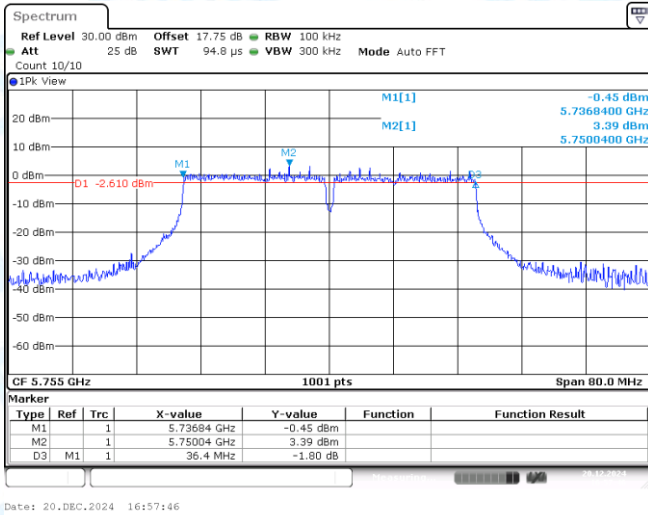
11A-Ant1-5825-PASS

11N20SISO-Ant1-5745-PASS

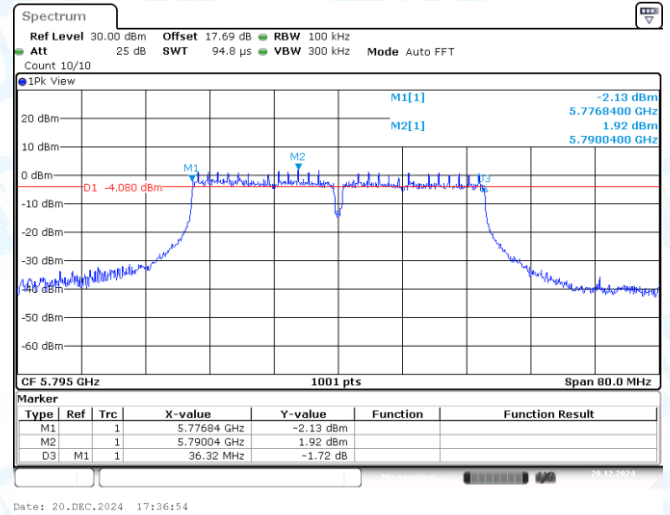


11N20SISO-Ant1-5785-PASS

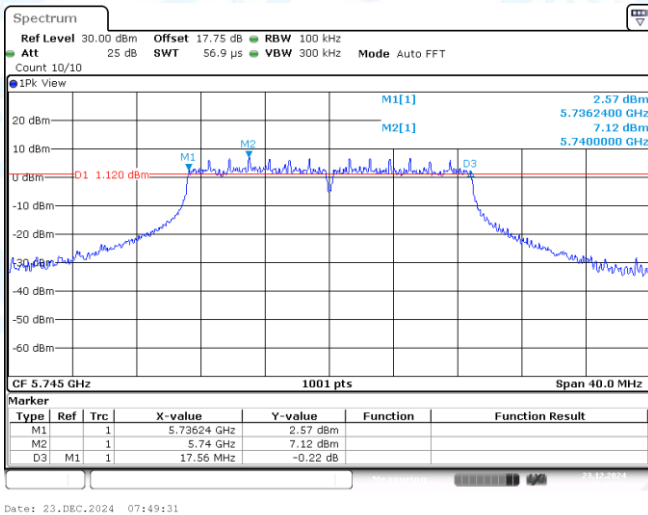
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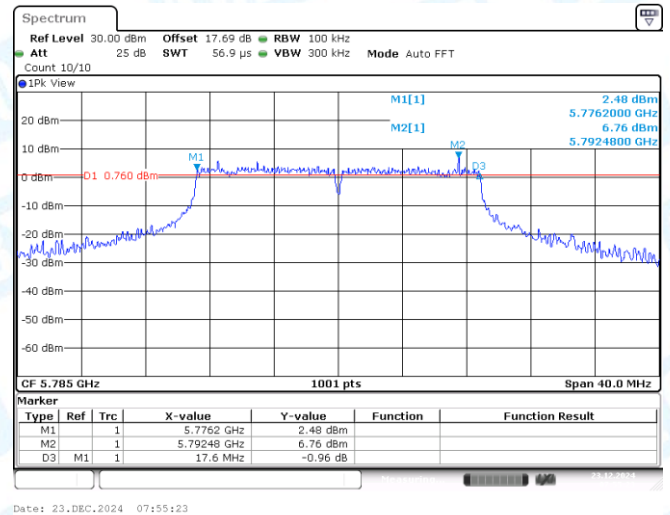
11N40SISO-Ant1-5755-PASS



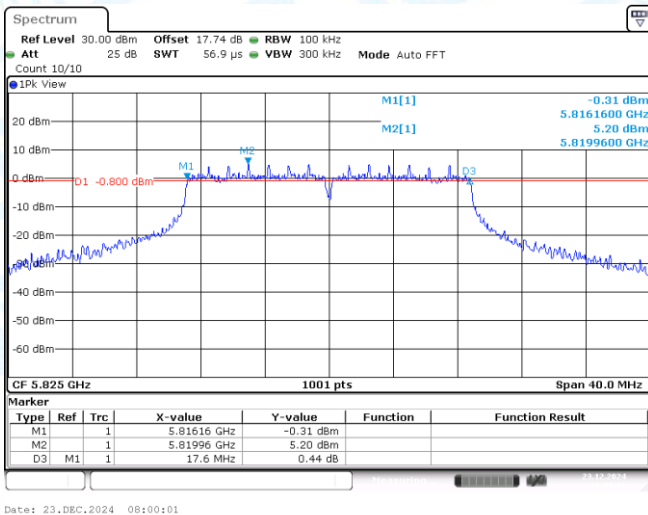
11N40SISO-Ant1-5795-PASS



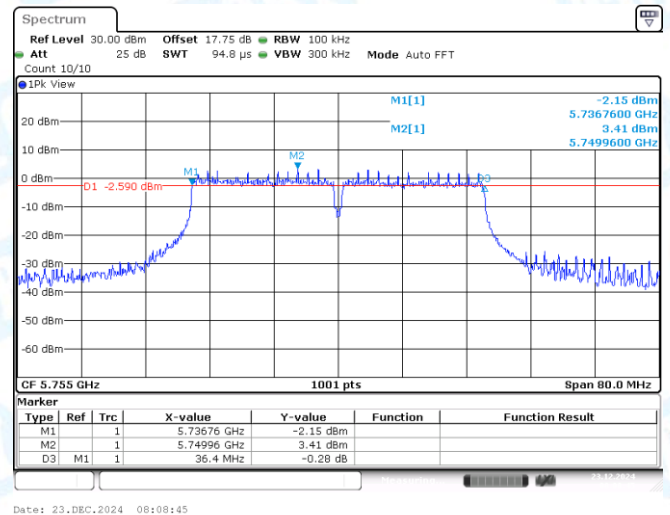
11AC20SISO-Ant1-5745-PASS



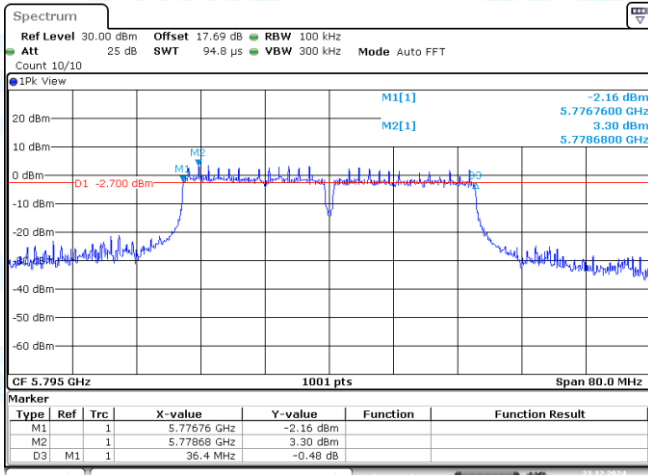
11AC20SISO-Ant1-5785-PASS



11AC20SISO-Ant1-5825-PASS

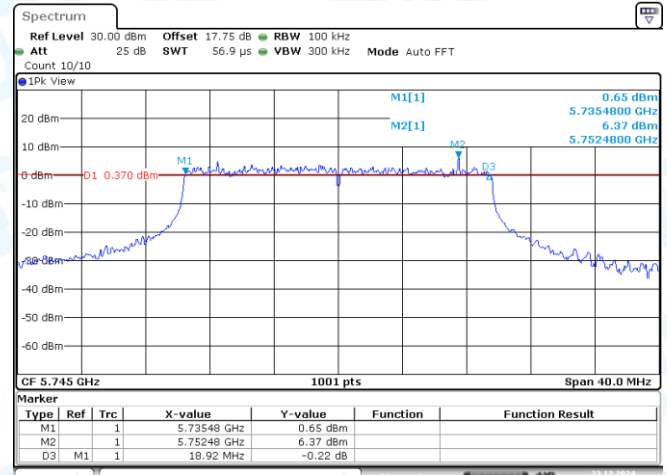


11AC40SISO-Ant1-5755-PASS



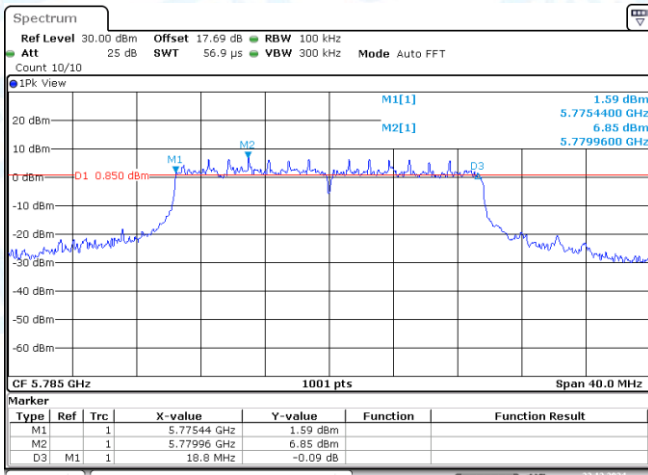
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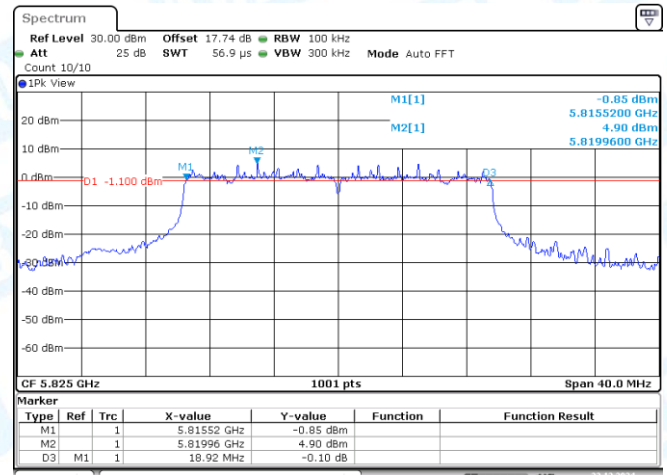
Date: 23.DEC.2024 08:19:40

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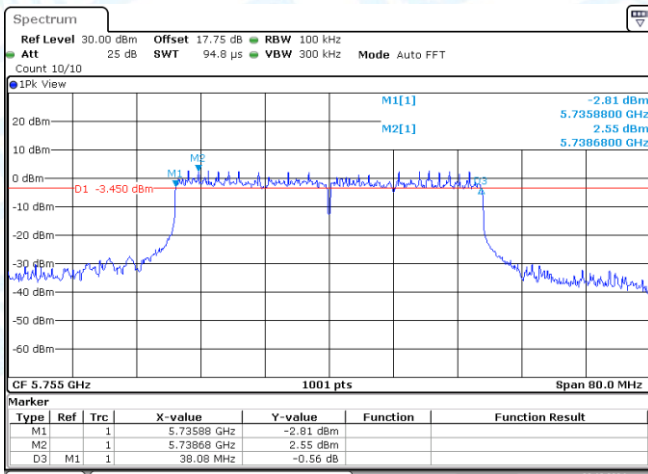
Date: 23.DEC.2024 08:22:47

11AX20SISO-Ant1-5785-PASS



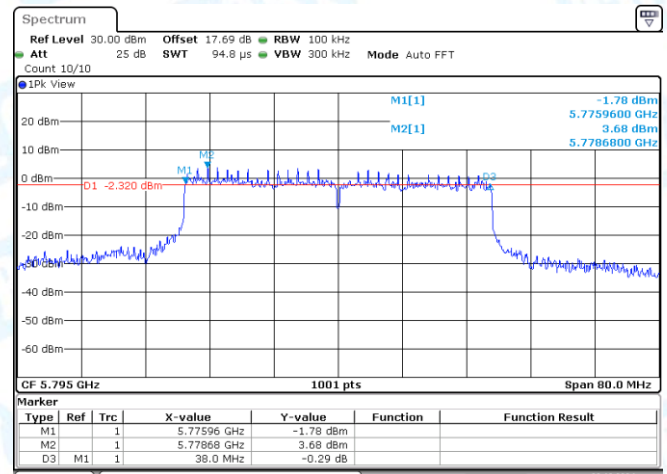
Date: 23.DEC.2024 08:24:43

11AX20SISO-Ant1-5825-PASS



Date: 23.DEC.2024 08:27:53

11AX40SISO-Ant1-5755-PASS



Date: 23.DEC.2024 08:30:52

11AX40SISO-Ant1-5795-PASS

4: Duty Cycle

4.1 Test Result

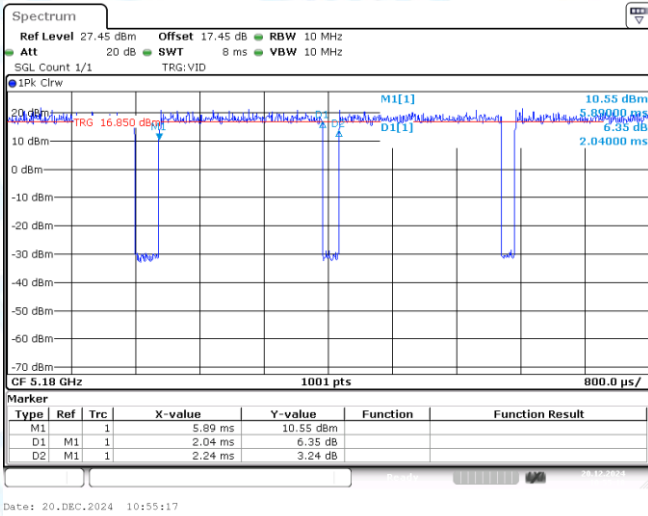
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factory	1/T [kHz]
11A	Ant1	5180	2.04	2.24	91.07	0.41	0.49
11A	Ant1	5200	2.03	2.14	94.86	0.23	0.49
11A	Ant1	5240	2.03	2.18	93.12	0.31	0.49
11A	Ant1	5745	2.03	2.21	91.86	0.37	0.49
11A	Ant1	5785	2.03	2.21	91.86	0.37	0.49
11A	Ant1	5825	2.04	2.23	91.48	0.39	0.49
11N20SISO	Ant1	5180	1.90	2.06	92.23	0.35	0.53
11N20SISO	Ant1	5200	1.89	2.04	92.65	0.33	0.53
11N20SISO	Ant1	5240	1.90	2.01	94.53	0.24	0.53
11N20SISO	Ant1	5745	1.89	1.98	95.45	0.20	0.53
11N20SISO	Ant1	5785	1.89	2.07	91.30	0.40	0.53
11N20SISO	Ant1	5825	1.90	2.07	91.79	0.37	0.53
11N40SISO	Ant1	5190	0.93	1.07	86.92	0.61	1.08
11N40SISO	Ant1	5230	0.94	1.03	91.26	0.40	1.06
11N40SISO	Ant1	5755	0.94	1.08	87.04	0.60	1.06
11N40SISO	Ant1	5795	0.93	1.10	84.55	0.73	1.08
11AC20SISO	Ant1	5180	1.91	2.10	90.95	0.41	0.52
11AC20SISO	Ant1	5200	1.90	2.07	91.79	0.37	0.53
11AC20SISO	Ant1	5240	1.91	2.07	92.27	0.35	0.52
11AC20SISO	Ant1	5745	1.90	2.06	92.23	0.35	0.53
11AC20SISO	Ant1	5785	1.91	2.02	94.55	0.24	0.52
11AC20SISO	Ant1	5825	1.90	2.05	92.68	0.33	0.53
11AC40SISO	Ant1	5190	0.94	1.12	83.93	0.76	1.06
11AC40SISO	Ant1	5230	0.93	0.99	93.94	0.27	1.08
11AC40SISO	Ant1	5755	0.94	1.47	63.95	1.94	1.06
11AC40SISO	Ant1	5795	0.94	1.05	89.52	0.48	1.06
11AX20SISO	Ant1	5180	1.46	1.60	91.25	0.40	0.68
11AX20SISO	Ant1	5200	1.47	1.55	94.84	0.23	0.68
11AX20SISO	Ant1	5240	1.46	1.60	91.25	0.40	0.68
11AX20SISO	Ant1	5745	1.47	1.56	94.23	0.26	0.68
11AX20SISO	Ant1	5785	1.46	1.64	89.02	0.51	0.68
11AX20SISO	Ant1	5825	1.47	1.52	96.71	0.15	0.68
11AX40SISO	Ant1	5190	0.77	0.92	83.70	0.77	1.30
11AX40SISO	Ant1	5230	0.77	1.01	76.24	1.18	1.30
11AX40SISO	Ant1	5755	0.76	0.94	80.85	0.92	1.32
11AX40SISO	Ant1	5795	0.76	0.98	77.55	1.10	1.32

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

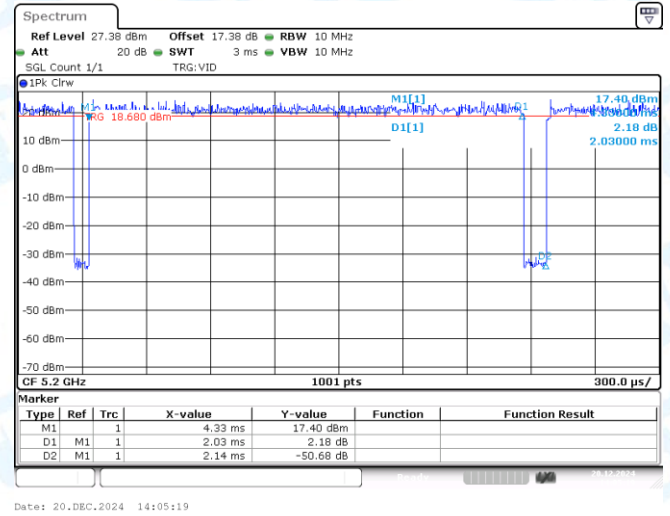
2, DC Factory=10*Log₁₀(1/Duty Cycle)

3, 1/T=1/ Transmission Duration

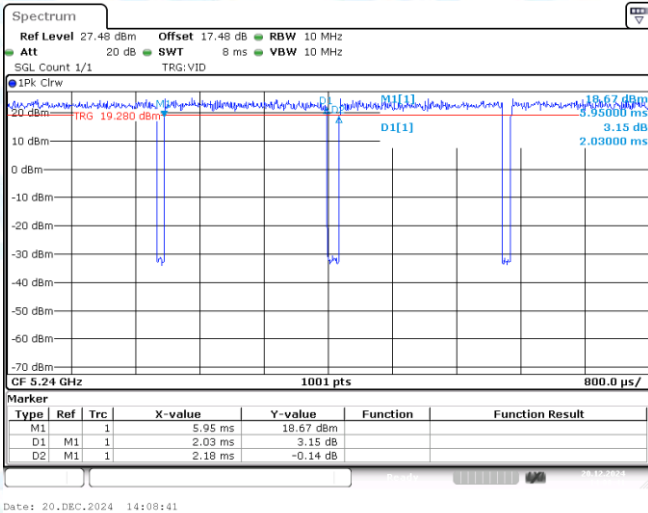
4.2 Test Graphs



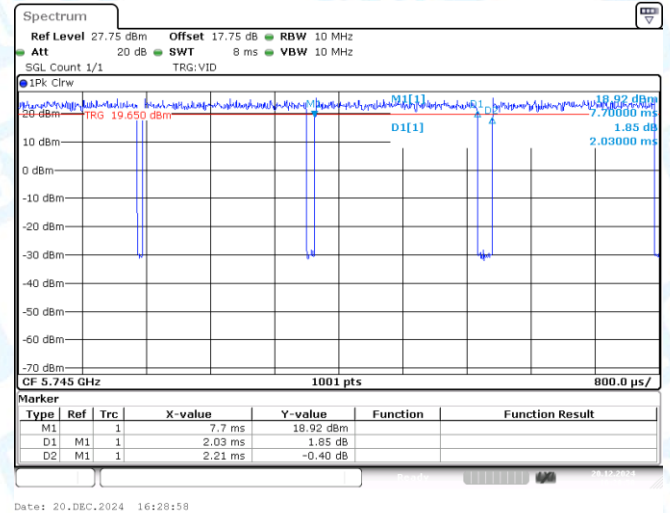
NTNV-11A-Ant1-5180



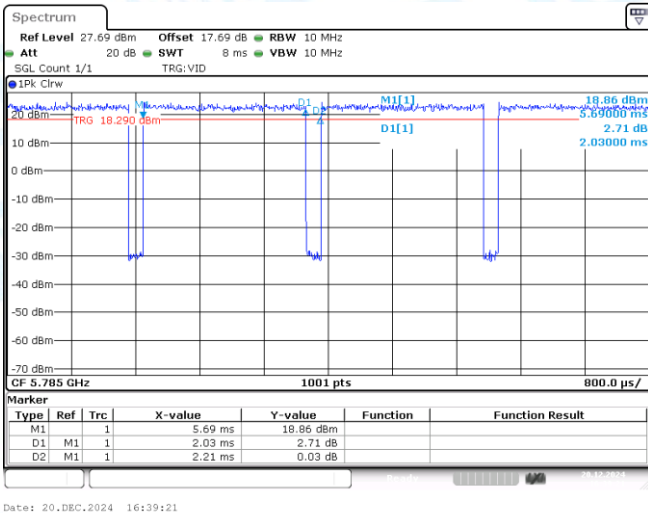
NTNV-11A-Ant1-5200



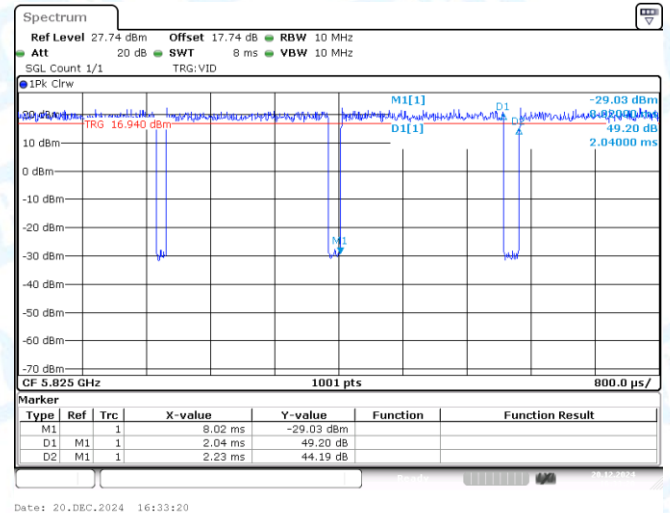
NTNV-11A-Ant1-5240



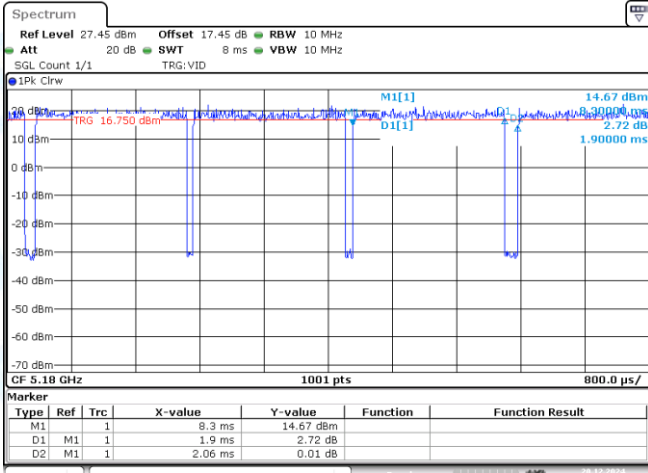
NTNV-11A-Ant1-5240



NTNV-11A-Ant1-5240

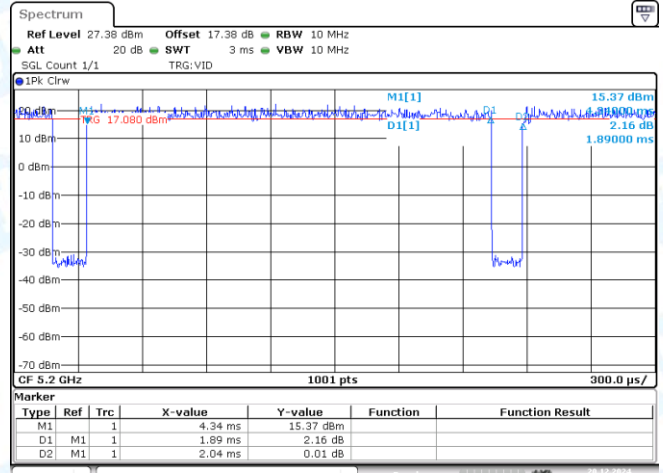


NTNV-11A-Ant1-5745



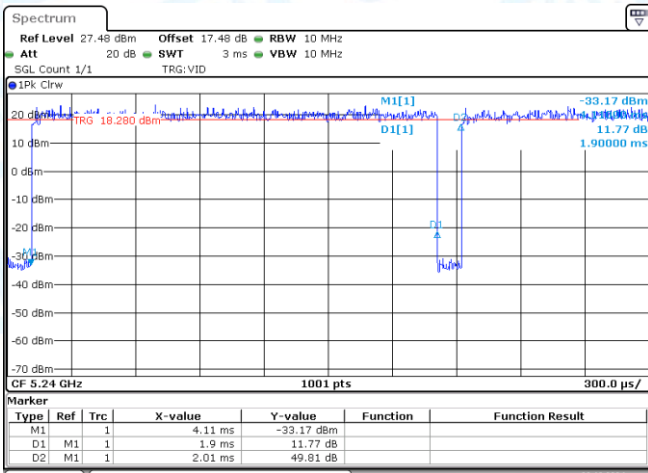
Date: 20.DEC.2024 14:23:23

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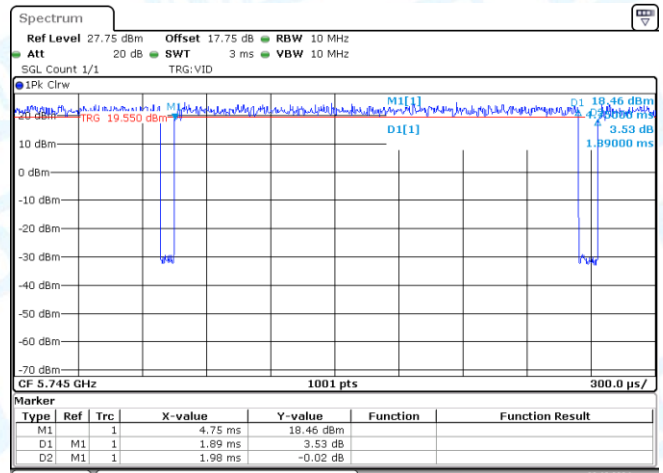
Date: 20.DEC.2024 14:28:46

NTNV-11N20SISO-Ant1-5200



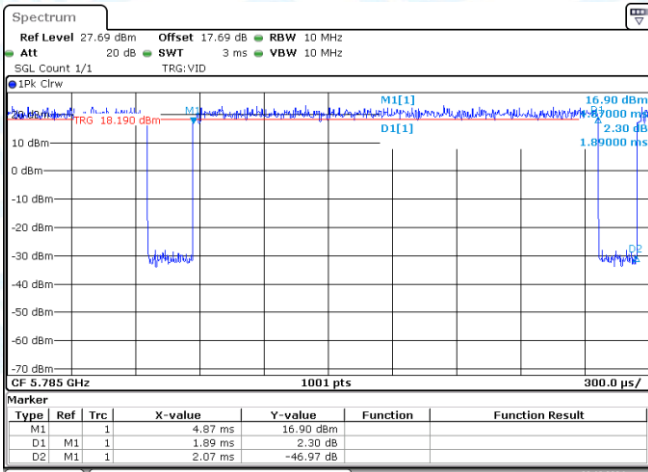
Date: 20.DEC.2024 14:31:48

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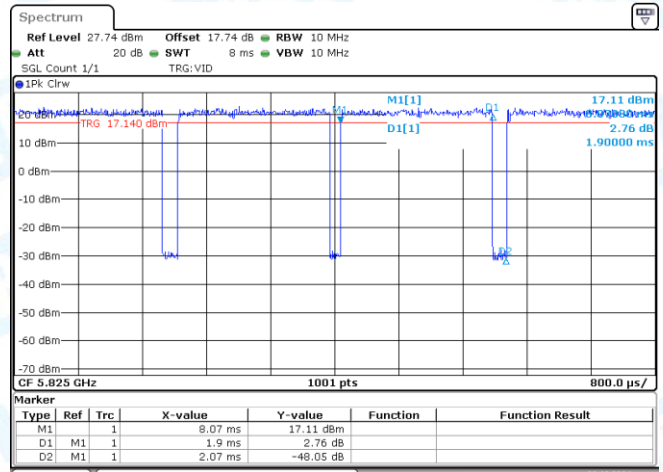
Date: 20.DEC.2024 16:41:32

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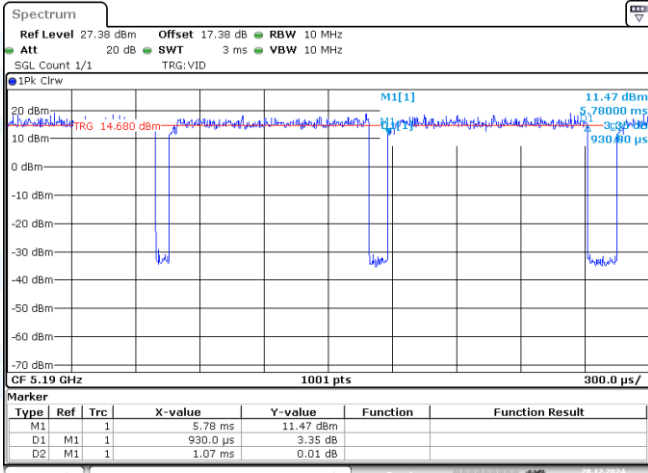
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NTNV-11N20SISO-Ant1-5785



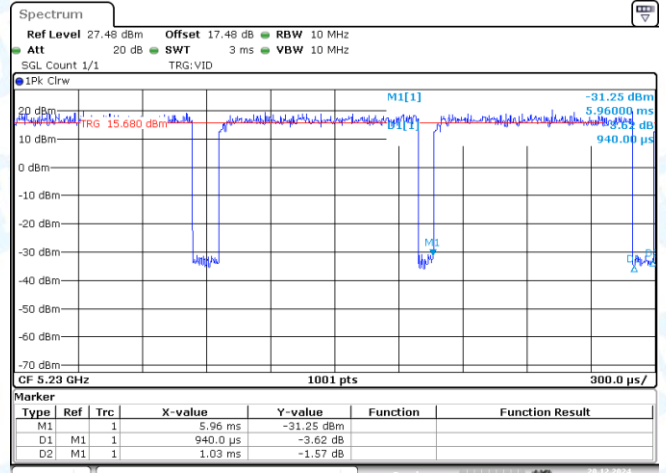
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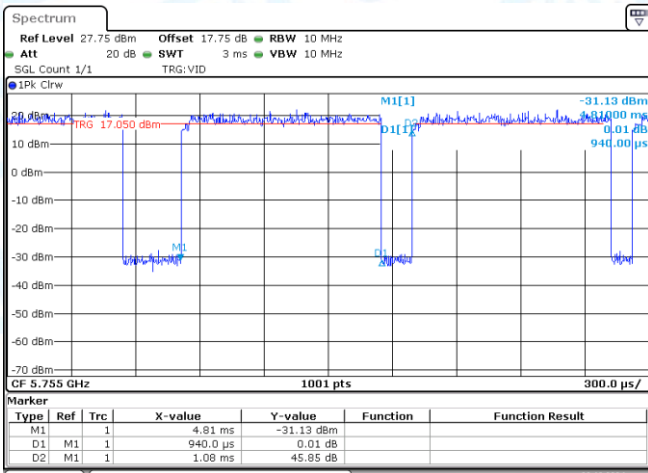
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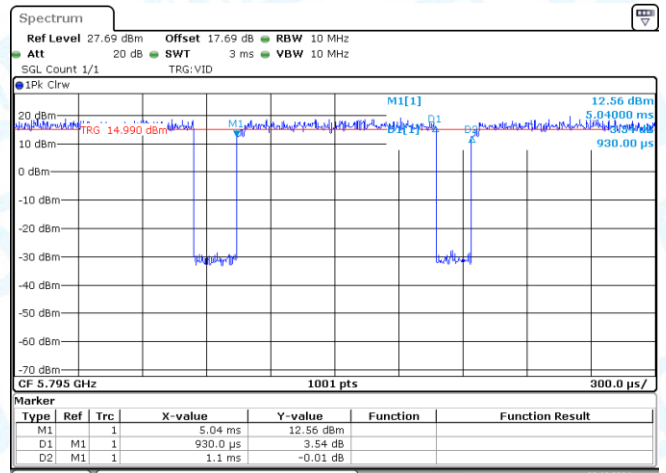
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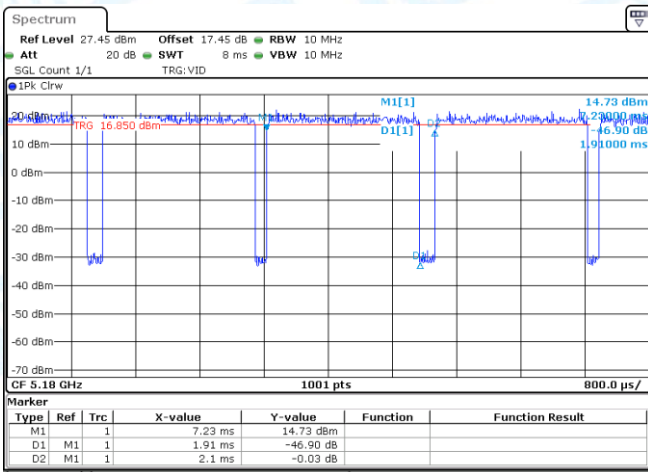
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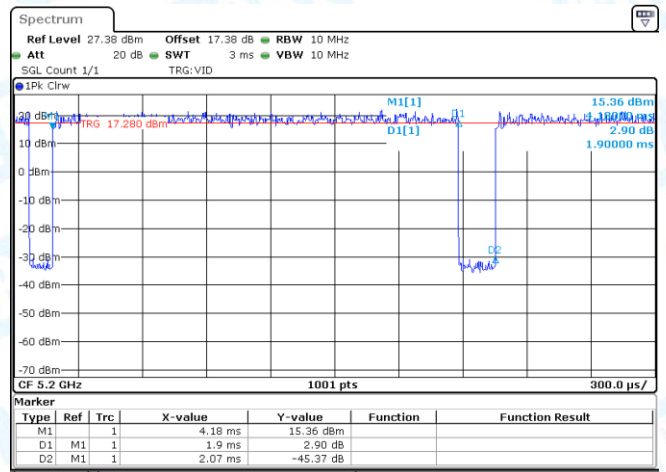
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NTNV-11N40SISO-Ant1-5795



Date: 20.DEC.2024 15:08:33

NTNV-11AC20SISO-Ant1-5180



Date: 20.DEC.2024 15:15:54

NTNV-11AC20SISO-Ant1-5200