



FCC TEST REPORT
FCC ID: 2AF2V-MOTICAM

On Behalf of

Motic China Group Co., Ltd.

Moticam

Model No.: Moticam 4000X, Moticam 4000X BMH

Prepared for : Motic China Group Co., Ltd.
Address : No 810 Fangshan Nan Road, XiangAn, Xiamen 361101, P.R.
China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District,
518103, Shenzhen, Guangdong, China

Report Number : A2312080-C01-R10
Date of Receipt : December 18, 2024
Date of Test : December 18, 2024 - March 9, 2024
Date of Report : March 9, 2024
Version Number : V0
Result Pass

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TEST REPORT DECLARATION

Applicant : Motic China Group Co., Ltd.
Address : No 810 Fangshan Nan Road, XiangAn, Xiamen 361101, P.R. China
Manufacturer : Motic China Group Co., Ltd.
Address : No 810 Fangshan Nan Road, XiangAn, Xiamen 361101, P.R. China
EUT Description : Moticam
(A) Model No. : Moticam 4000X, Moticam 4000X BMH
(B) Trademark : N/A

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart E

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:	Yannis Wen Project Engineer	
Approved by (name + signature).....:	Reak Yang Project Manager	
Date of issue.....:	March 9, 2024	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	March 9, 2024	Initial released Issue	Yannis Wen

1 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	Section 15.203 Section 7.1.4	PASS
AC Power Line Conducted Emission	Section 15.207 Section 7.2.4	PASS
Peak Transmit Power	Section 15.407(a)	PASS
Power Spectral Density	Section 15.407(a)	PASS
Undesirable Emission	Section 15.407(b)	PASS
26dB/6dB&99% Bandwidth	Section 15.407	PASS
Radiated Emission	Section 15.407(b)&15.209 Section 5.5	PASS
Band Edge	15.205, ANSI C63.10	PASS
Frequency Stability	15.407(f)	PASS

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Frequency Stability: The manufacturer stated in the user's manual.
3. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

1.1 Measurement Uncertainty

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	1.63dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.74dB(Polarize: V)
	3.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for radio frequency	5.06×10^{-8} GHz
Uncertainty for conducted RF Power	0.40dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2 General Information

2.1 General Description of EUT

EUT Name	: Moticam
Model No.	: Moticam 4000X, Moticam 4000X BMH
DIFF.	: The Moticam 4000X BMH adds a display screen and a display connection bracket on top of the Moticam 4000X, making the camera part completely identical. So all the test were performed on the model Moticam 4000X BMH.
Power supply	: DC 12V from adapter

Radio Technology	: 5G WIFI
Operation Frequency	: 802.11a/n(HT20)/ac(VHT20): 5180~5240MHz; 5260-5320MHz; 5500-5700MHz; 5745~5825MHz 802.11n(HT40)/ac(VHT40): 5190~5230MHz; 5270-5310MHz; 5510-5670MHz; 5755~5795MHz 802.11ac(VHT80): 5210MHz, 5290MHz, 5530MHz, 5775MHz
Channel separation	: 20MHz for 802.11a/ 802.11ac(VHT20)/ 802.11n(HT20) 40MHz for 802.11ac(VHT40)/ 802.11n(HT40) 80MHz for 802.11ac(VHT80)
Modulation technology:	: IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Type	: Rod antenna 1, max gain 5dBi Rod antenna 2, max gain 5dBi The antenna MIMO combining gain is 8.01dBi. (Antenna information is provided by applicant.)
Software version	: MC988M-MAIN-A2248A11
Hardware version	: V224
Intend use environment	: Residential, commercial and light industrial environment

1. The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 5G Wi-Fi function, and there is no other transmitter involved.

2.2 Test mode

Transmitting mode Keep the EUT in transmitting with modulation.
EUT was test with 99% duty cycle at its maximum power control level.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

2.3 Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 25, 2017 Certificated by IC
Registration Number: 12135A

2.4 Description of Support Units

Accessories1 : Power Supply
Manufacturer : Shen Zhen Shi Yingyuan Electronics Co.,Ltd ,
Model : ICP301-120-2500
Input : 100-240V~50/60Hz 0.8A
Output : 12.0 = 2.5A 30.0W

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

2.8 Additional instructions

Software (Used for test) from client

Channel	Power level
Lowest	Default
Middle	Default
Highest	Default

3 Test Instruments list

Equipment	Manufacture	Model No.	Firmware version	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2022.05.17	3Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2023.08.16	1Year
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2023.08.16	1Year
Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2023.08.16	1Year
Receiver	R&S	ESCI	4.42 SP1	101165	2023.08.16	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	/	VULB 9168#627	2023.08.28	1Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2023.08.19	1Year
Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00128	2023.08.19	1Year
RF Cable	Resenberger	Cable 1	/	RE1	2023.08.16	1Year
RF Cable	Resenberger	Cable 2	/	RE2	2023.08.16	1Year
RF Cable	Resenberger	Cable 3	/	CE1	2023.08.16	1Year
Pre-amplifier	HP	HP8347A	/	2834A00455	2023.08.16	1Year
Pre-amplifier	Agilent	8449B	/	3008A02664	2023.08.16	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	/	8126-466	2023.08.16	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2023.08.16	1Year
Horn Antenna	SCHWARZBECK	BBHA 9170	/	00946	2023.08.19	1Year
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2023.08.16	1 Year
Power Meter	Agilent	E9300A	/	MY41496628	2023.08.16	1 Year
Power Sensor	DARE	RPR3006W	/	15100041SNO91	2023.08.16	1 Year
Temp. & Humid. Chamber	Teelong	TL-HW408S	/	TL-20191205-01	2023.07.25	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2023.08.16	1 Year
Adjustable attenuator	MWRFTest	N/A	/	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A

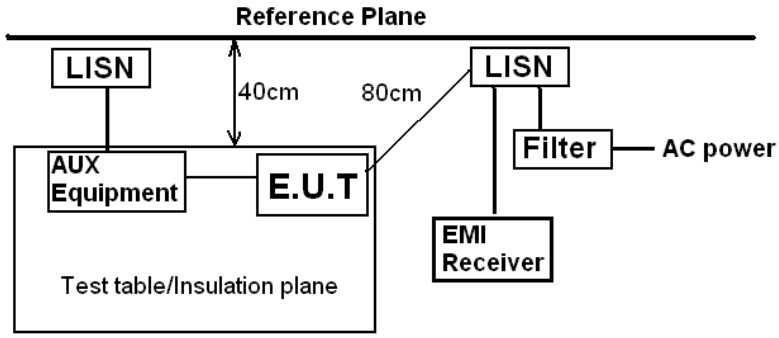
Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	EZ	Alpha-3A1
CE	EZ-EMC	EZ	Alpha-3A1
RF-CE	MTS 8310	MW	V2.0.0.0

4 Test results and Measurement Data

4.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
The antenna is Rod antenna. The best case gain of the antenna is 3.73dBi, for 5180~5240MHz; 5260-5320MHz; 5500-5700MHz; 5745~5825MHz	

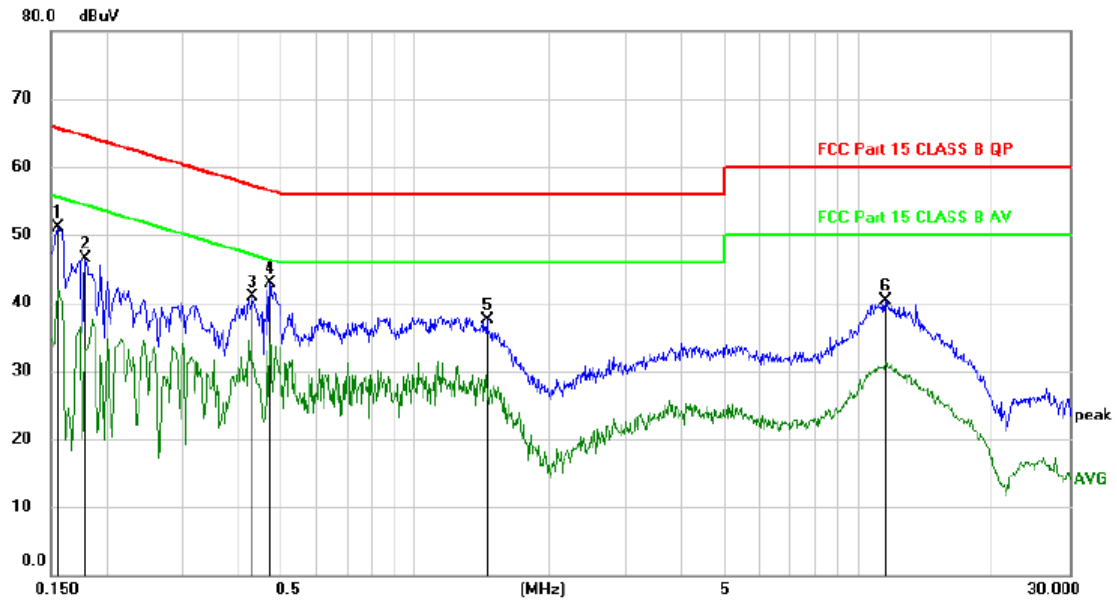
4.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.20		
Test Method:	ANSI C63.10:2013		
Test Frequency Range:	150KHz to 30MHz		
Class Severity:	Class B		
Class B			
Receiver setup:	RBW=9KHz, VBW=30KHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.		
Test setup:	 Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.10 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data

An initial pre-scan was performed on the line and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Line:

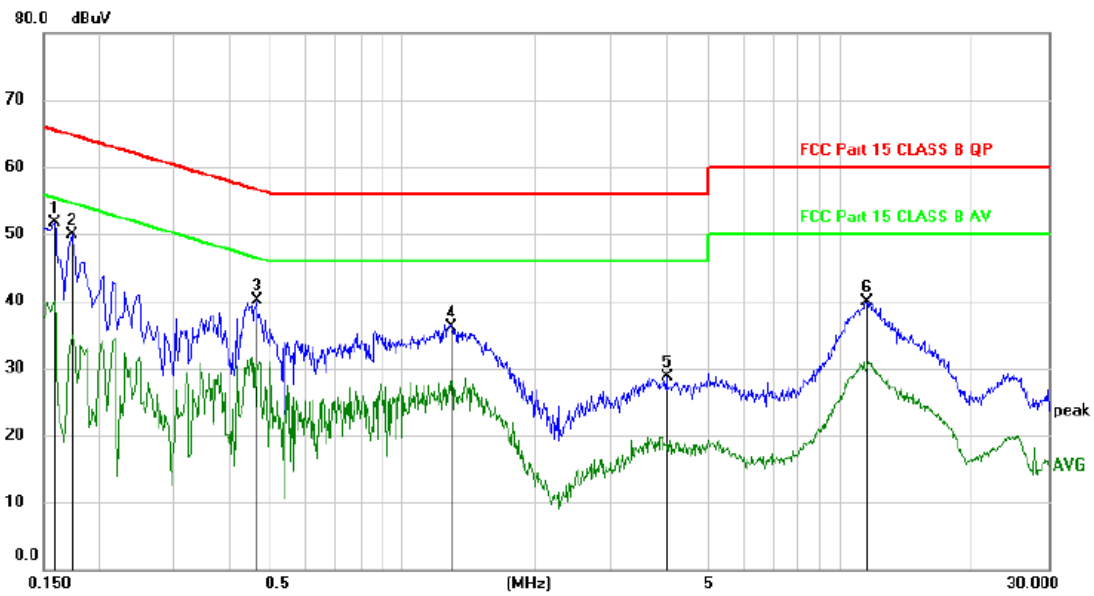


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1559	41.15	9.94	51.09	65.68	-14.59	peak	
2		0.1800	36.54	9.93	46.47	64.49	-18.02	peak	
3		0.4289	30.94	9.95	40.89	57.27	-16.38	peak	
4	*	0.4707	32.86	9.95	42.81	56.50	-13.69	peak	
5		1.4516	27.60	9.89	37.49	56.00	-18.51	peak	
6		11.5259	30.09	10.25	40.34	60.00	-19.66	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Neutral:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1	*	0.1590	41.82	9.94	51.76	65.52	-13.76	peak	
2		0.1737	39.95	9.93	49.88	64.78	-14.90	peak	
3		0.4620	30.10	9.95	40.05	56.66	-16.61	peak	
4		1.2959	26.21	9.89	36.10	56.00	-19.90	peak	
5		4.0140	18.81	9.97	28.78	56.00	-27.22	peak	
6		11.5106	29.74	10.25	39.99	60.00	-20.01	peak	

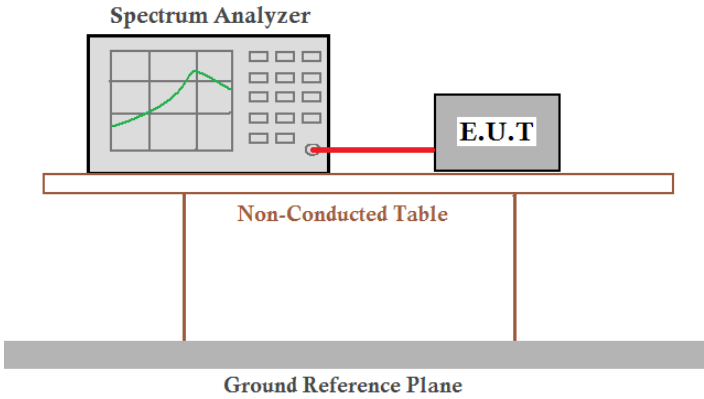
*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Note: All modes and channels have been tested and only the A 5180MHz mode with the worst data is listed.

4.3 Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	>500kHz for 6 dB bandwidth
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green trace, is connected to an E.U.T (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T are positioned on a Non-Conducted Table, which is a rectangular platform supported by two vertical legs. Below the table, a thick gray horizontal bar represents the Ground Reference Plane.
Test procedure:	According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

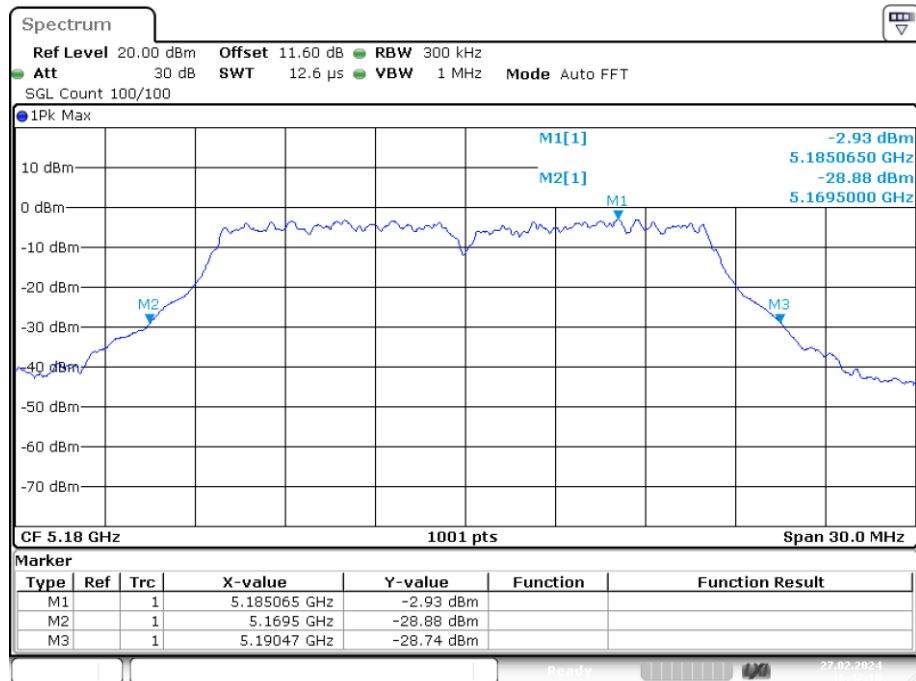
Measurement Data:

Band 1 (5150-5250 MHz):

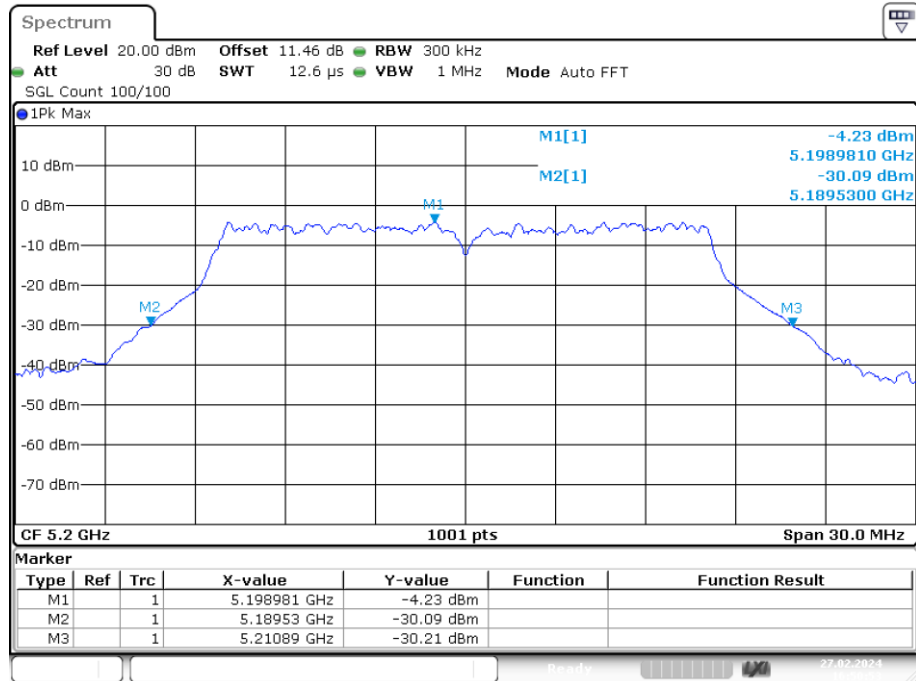
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant A	20.97	Pass
NVNT	a	5200	Ant A	21.36	Pass
NVNT	a	5240	Ant A	20.91	Pass
NVNT	ac20	5180	Ant A	21.12	Pass
NVNT	ac20	5200	Ant A	22.08	Pass
NVNT	ac20	5240	Ant A	20.88	Pass
NVNT	ac40	5190	Ant A	41.58	Pass
NVNT	ac40	5230	Ant A	39.54	Pass
NVNT	ac80	5210	Ant A	78.84	Pass
NVNT	n20	5180	Ant A	21.48	Pass
NVNT	n20	5200	Ant A	21.27	Pass
NVNT	n20	5240	Ant A	21.69	Pass
NVNT	n40	5190	Ant A	41.04	Pass
NVNT	n40	5230	Ant A	40.44	Pass

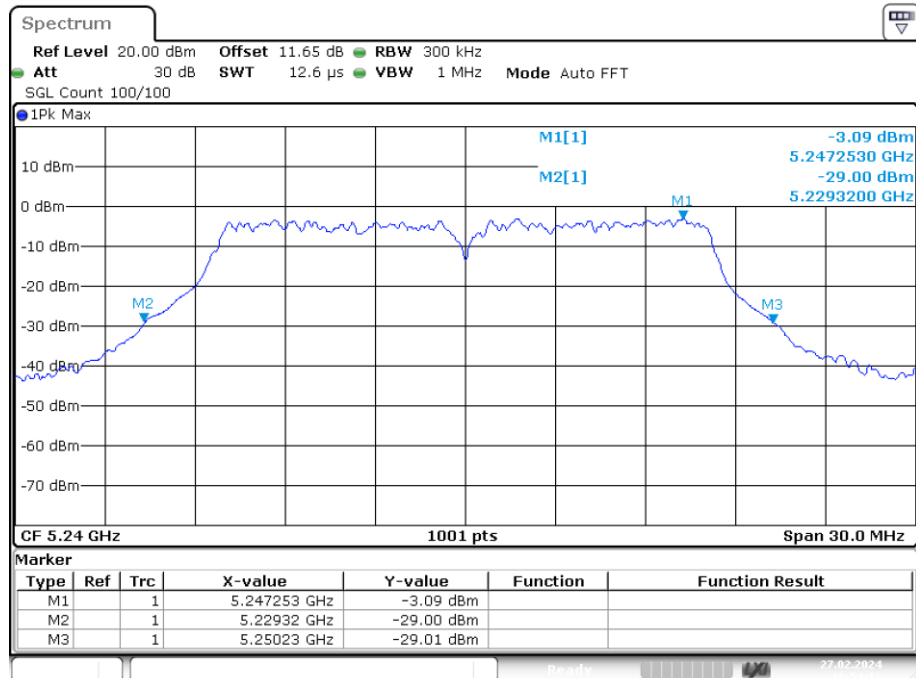
-26dB Bandwidth NVNT a 5180MHz Ant A



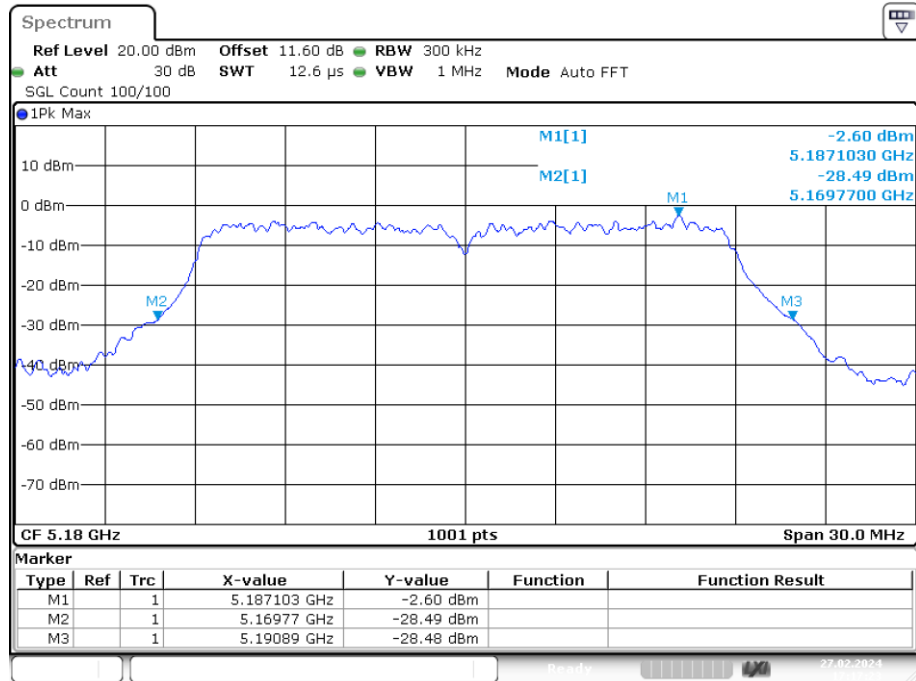
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-26dB Bandwidth NVNT a 5200MHz Ant A

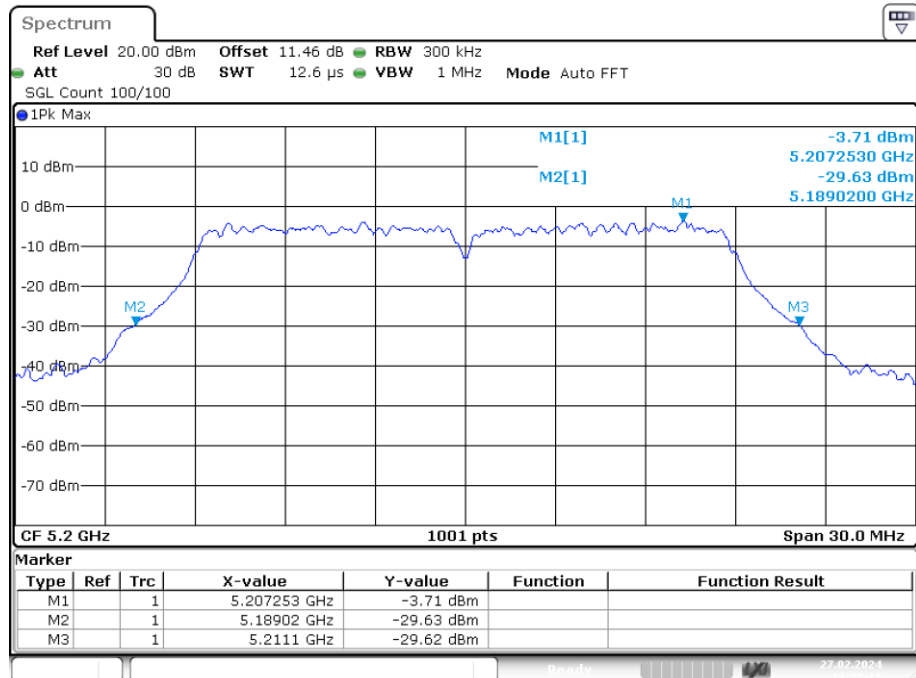
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-26dB Bandwidth NVNT a 5240MHz Ant A

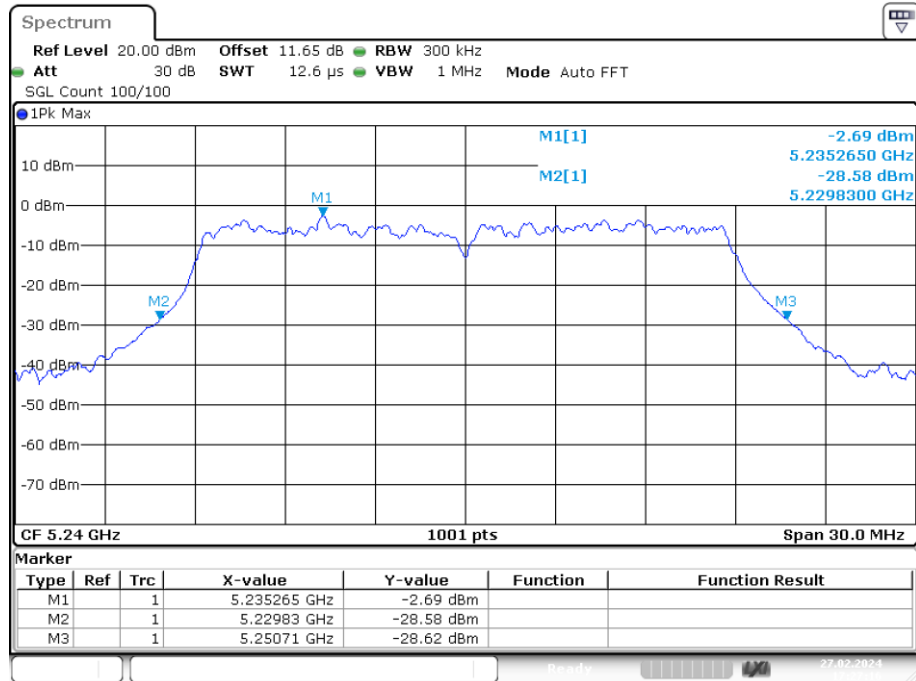
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-26dB Bandwidth NVNT ac20 5180MHz Ant A

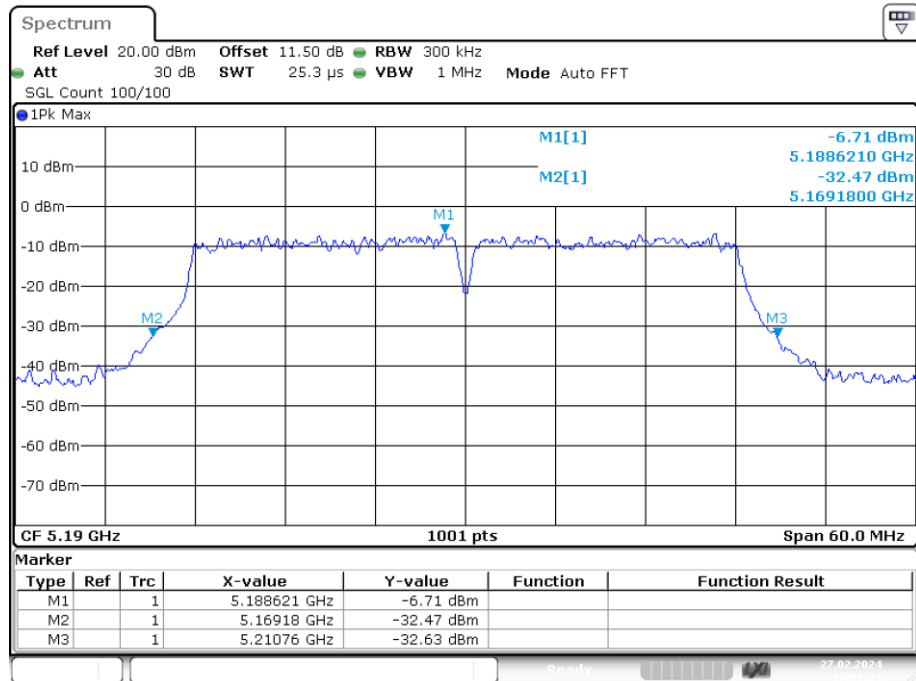
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-26dB Bandwidth NVNT ac20 5200MHz Ant A

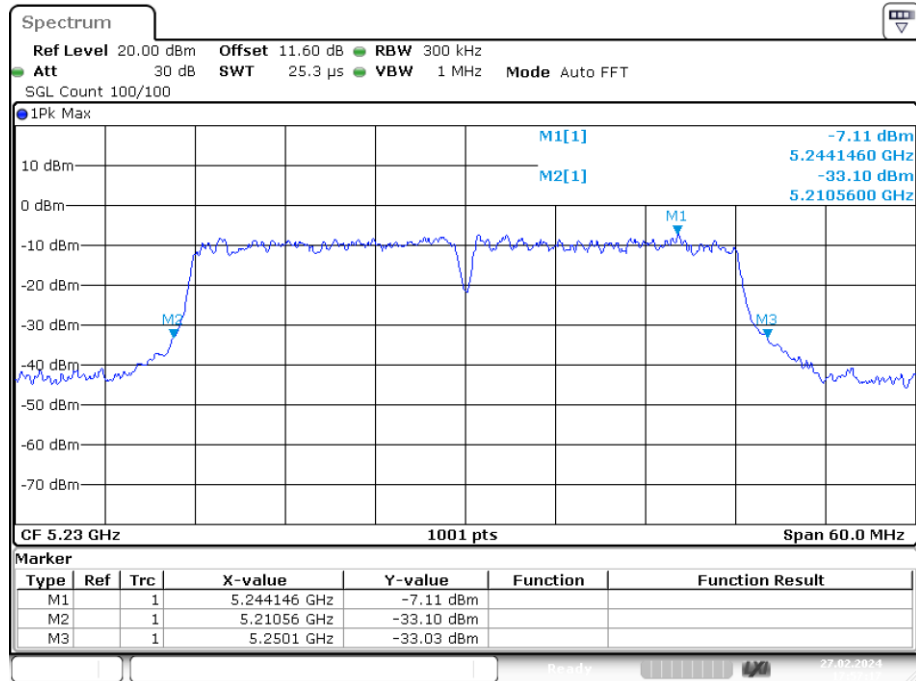
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-26dB Bandwidth NVNT ac20 5240MHz Ant A

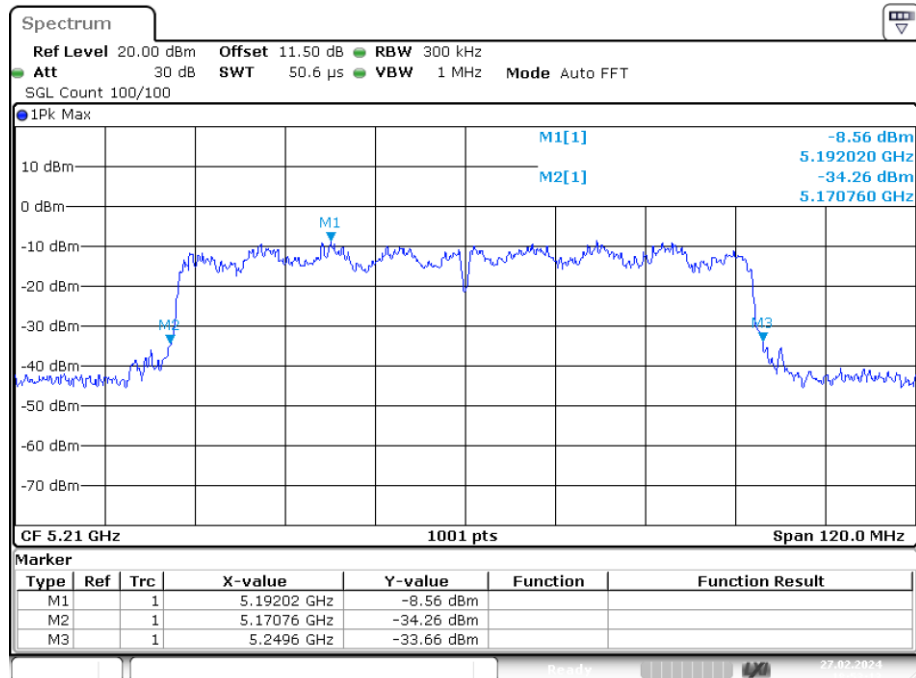
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-26dB Bandwidth NVNT ac40 5190MHz Ant A

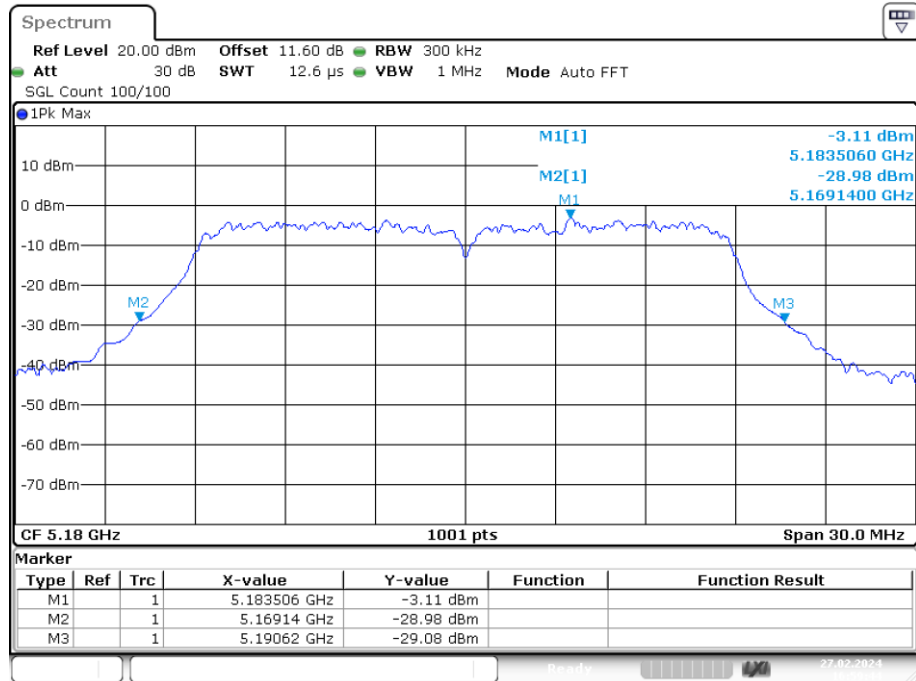
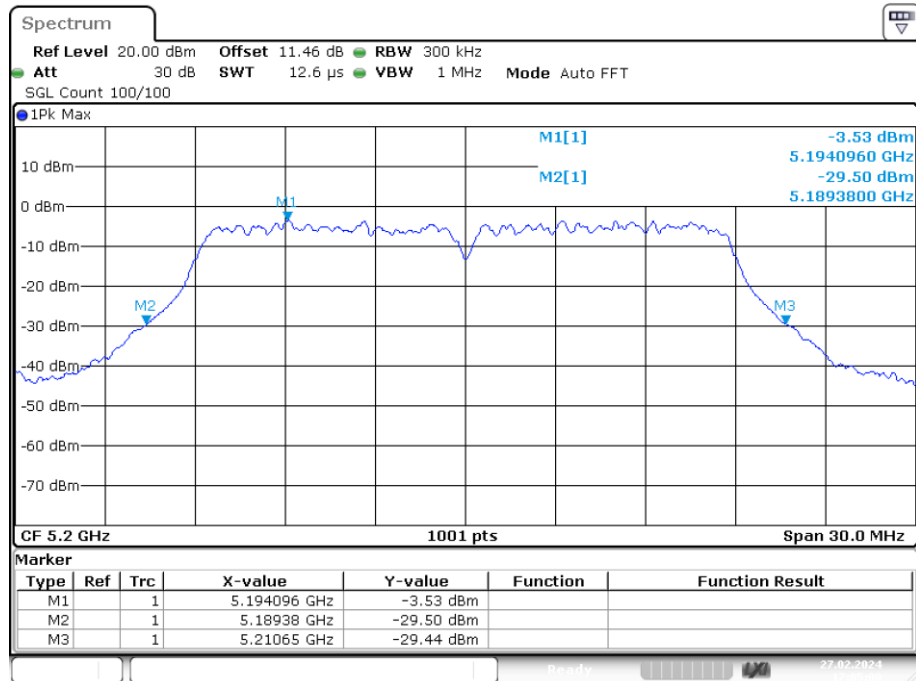
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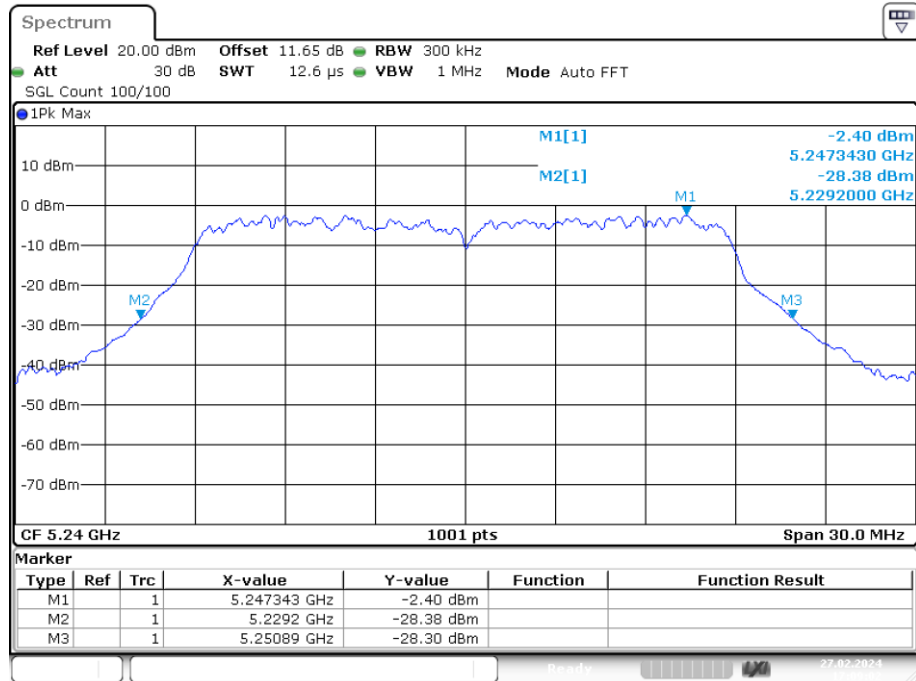
-26dB Bandwidth NVNT ac40 5230MHz Ant A

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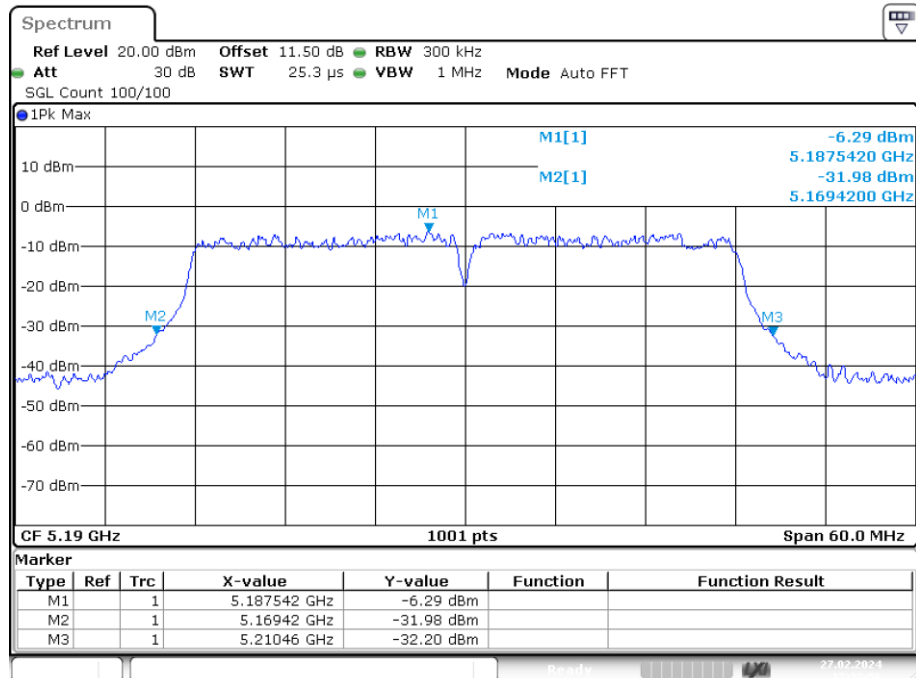
-26dB Bandwidth NVNT ac80 5210MHz Ant A

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-26dB Bandwidth NVNT n20 5180MHz Ant A**-26dB Bandwidth NVNT n20 5200MHz Ant A**

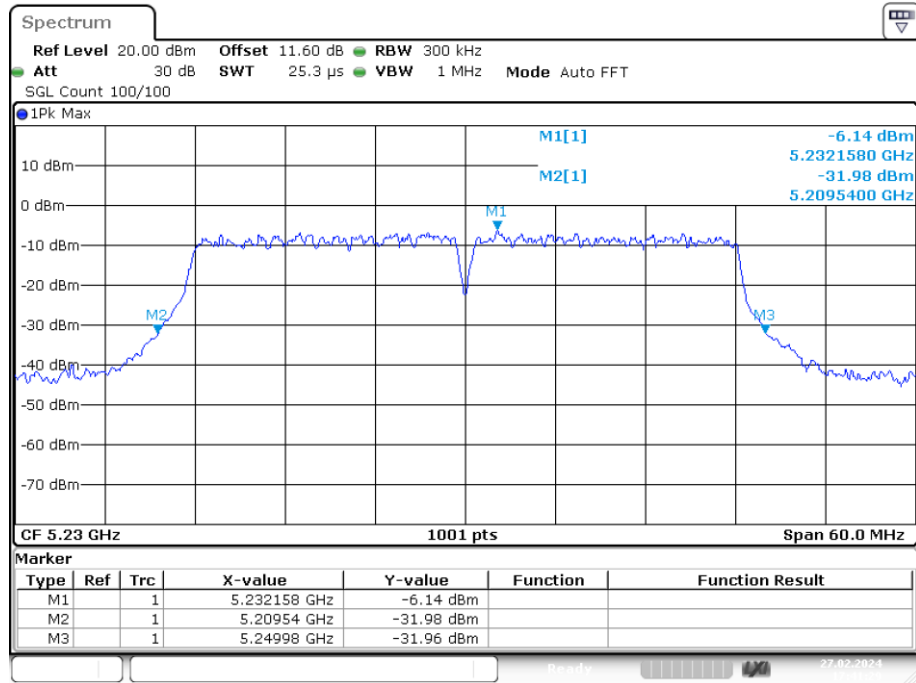
-26dB Bandwidth NVNT n20 5240MHz Ant A

Date: 27.FEB.2024 17:09:02

-26dB Bandwidth NVNT n40 5190MHz Ant A

Date: 27.FEB.2024 17:33:55

-26dB Bandwidth NVNT n40 5230MHz Ant A

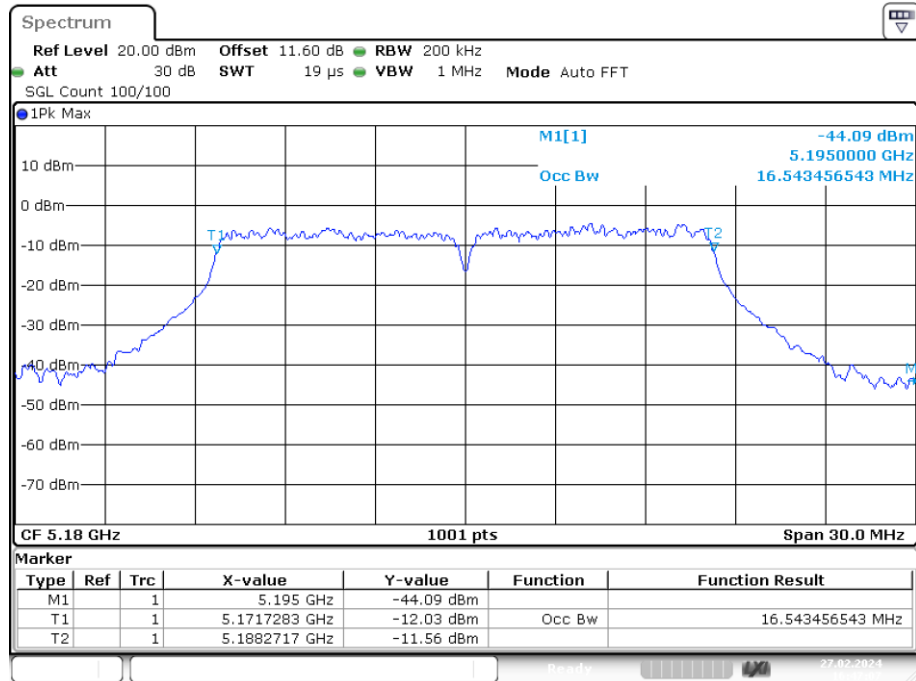


Date: 27.FEB.2024 17:41:29

Occupied Channel Bandwidth

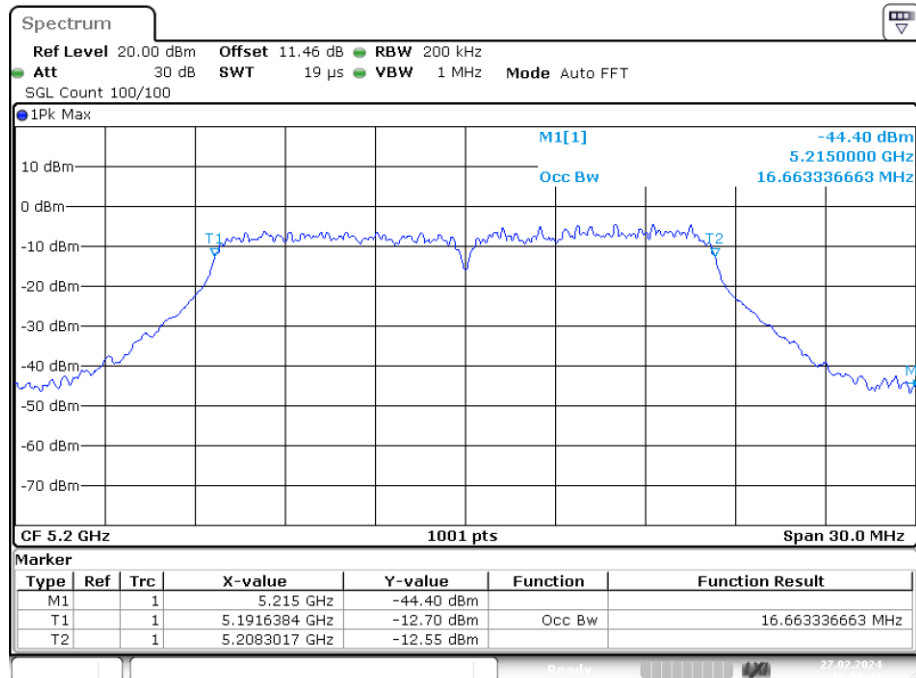
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant A	16.543
NVNT	a	5200	Ant A	16.663
NVNT	a	5240	Ant A	16.573
NVNT	ac20	5180	Ant A	17.802
NVNT	ac20	5200	Ant A	17.652
NVNT	ac20	5240	Ant A	17.652
NVNT	ac40	5190	Ant A	36.264
NVNT	ac40	5230	Ant A	36.204
NVNT	ac80	5210	Ant A	74.925
NVNT	n20	5180	Ant A	17.742
NVNT	n20	5200	Ant A	17.652
NVNT	n20	5240	Ant A	17.652
NVNT	n40	5190	Ant A	36.623
NVNT	n40	5230	Ant A	36.324

OBW NVNT a 5180MHz Ant A



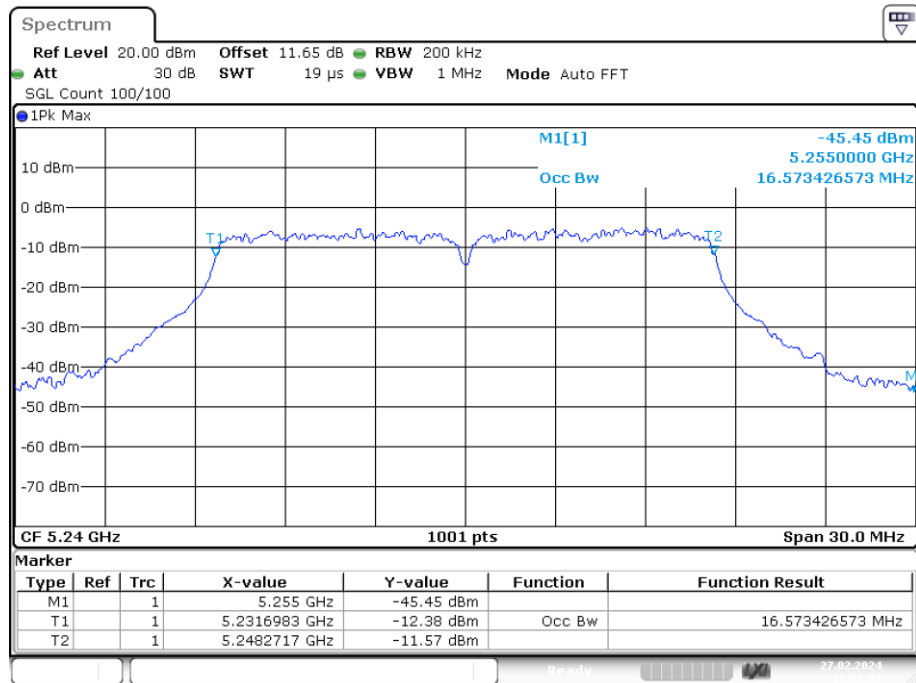
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OBW NVNT a 5200MHz Ant A



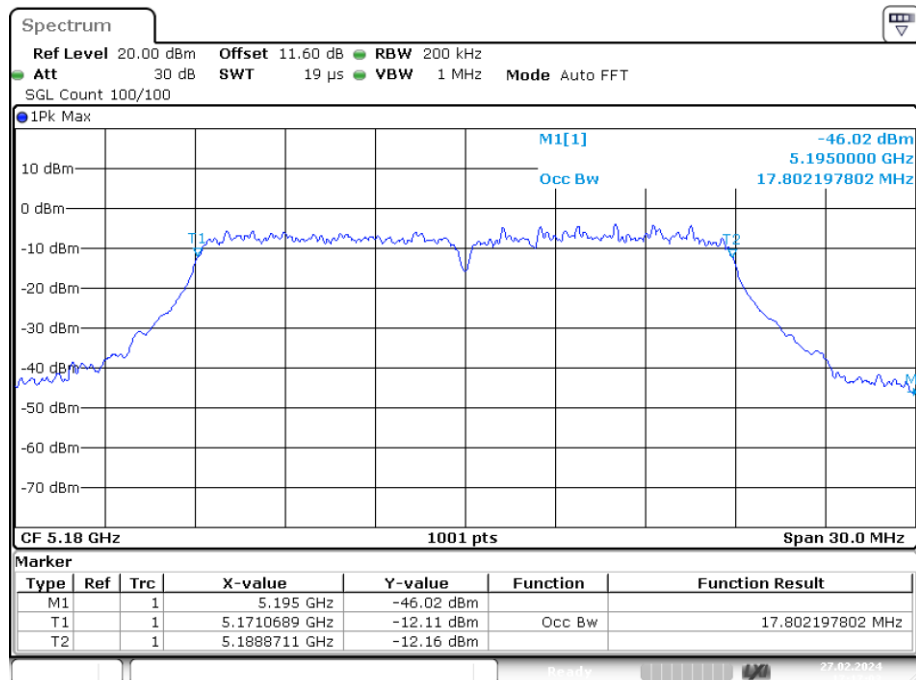
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OBW NVNT a 5240MHz Ant A



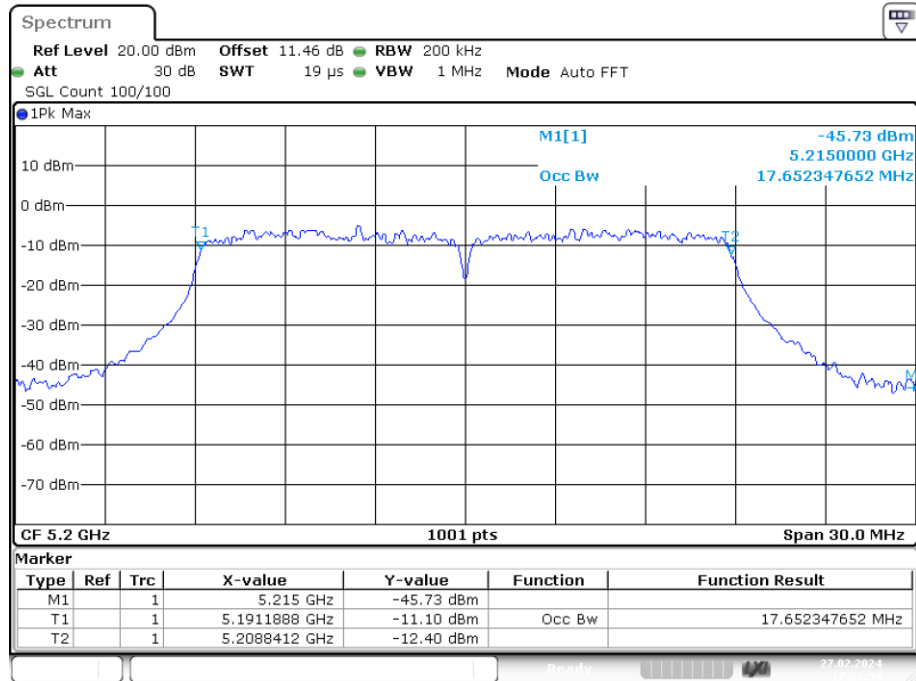
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OBW NVNT ac20 5180MHz Ant A



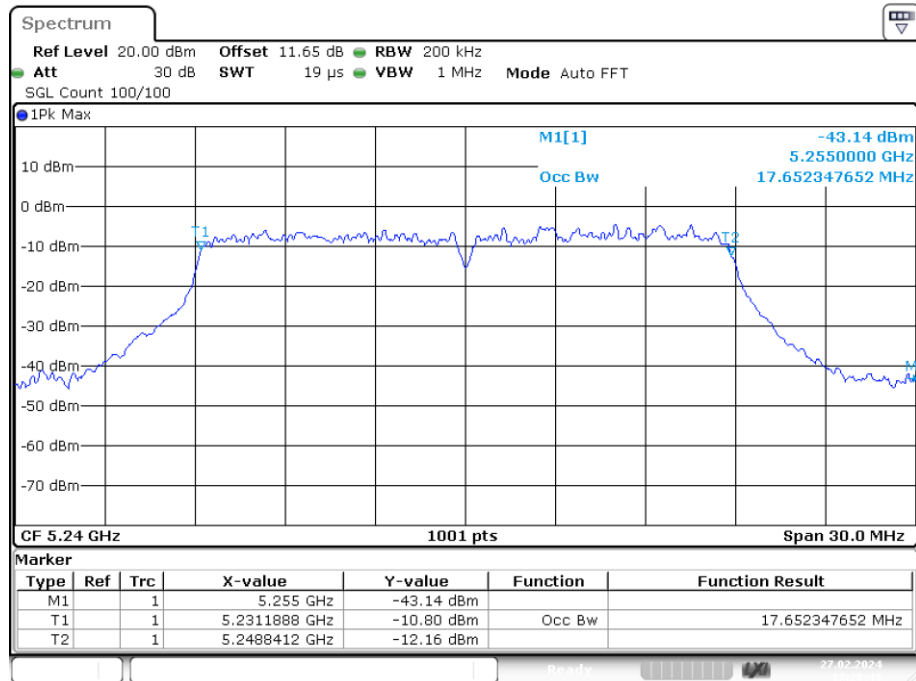
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OBW NVNT ac20 5200MHz Ant A



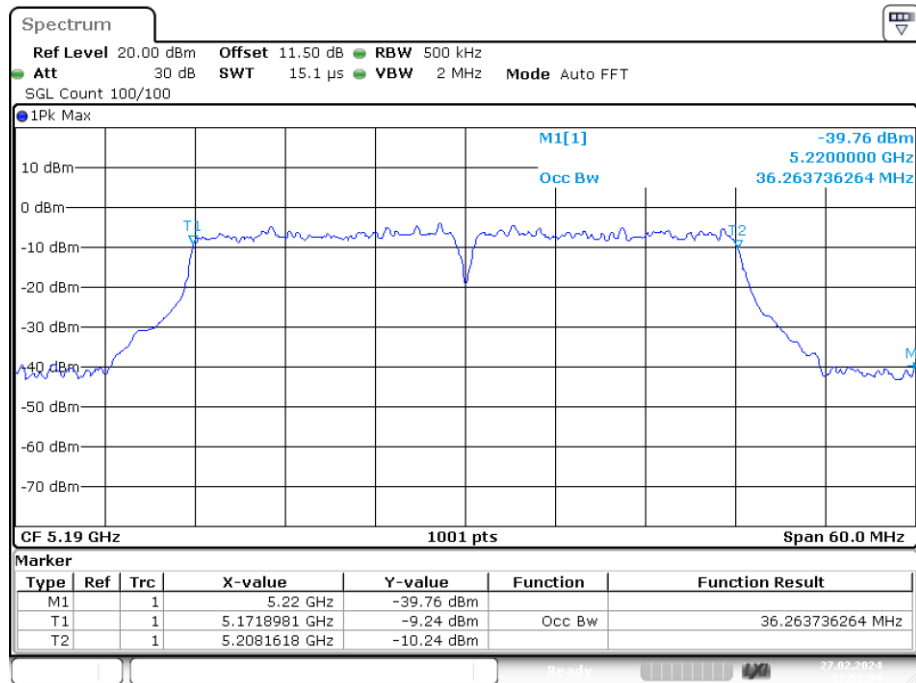
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OBW NVNT ac20 5240MHz Ant A



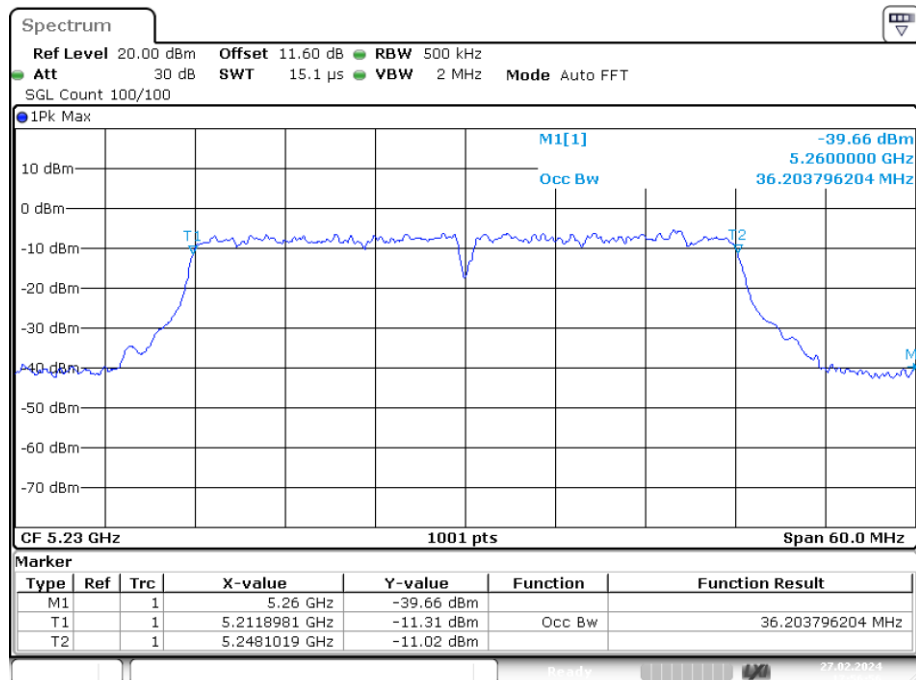
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OBW NVNT ac40 5190MHz Ant A



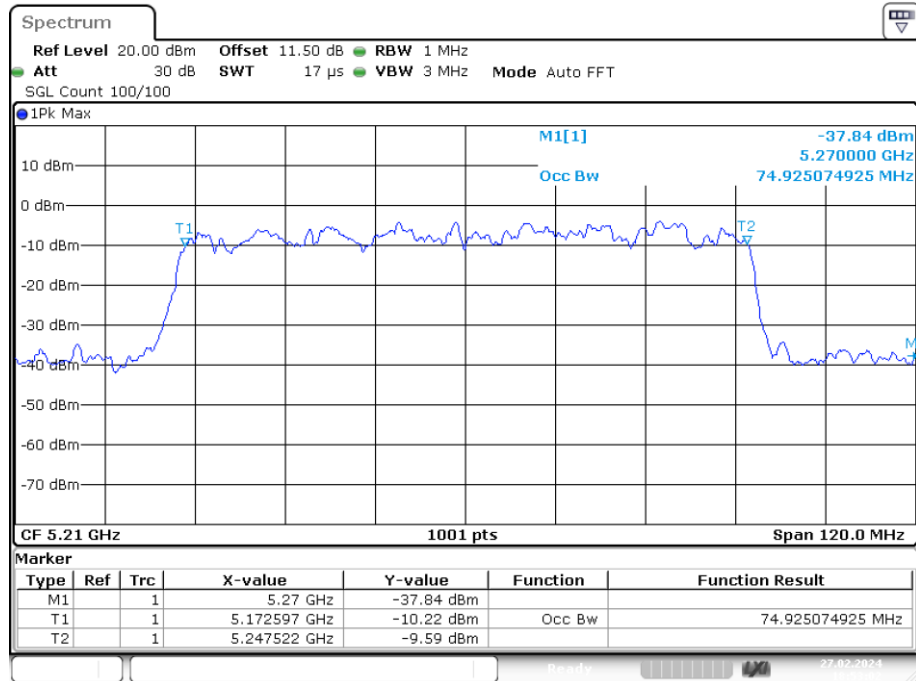
Date: 27.FEB.2024 17:51:04

OBW NVNT ac40 5230MHz Ant A



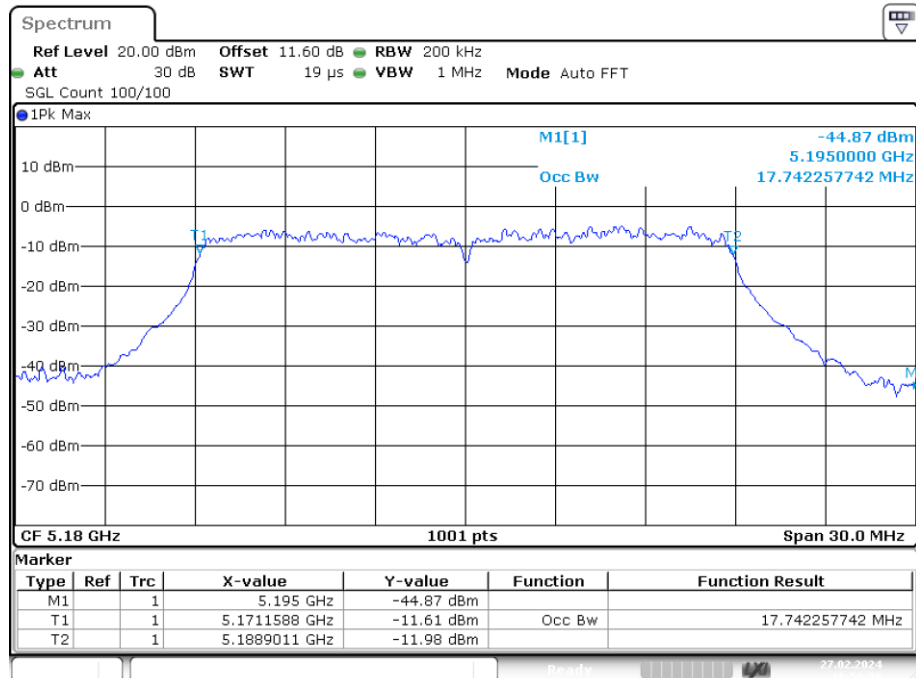
Date: 27.FEB.2024 17:56:56

OBW NVNT ac80 5210MHz Ant A



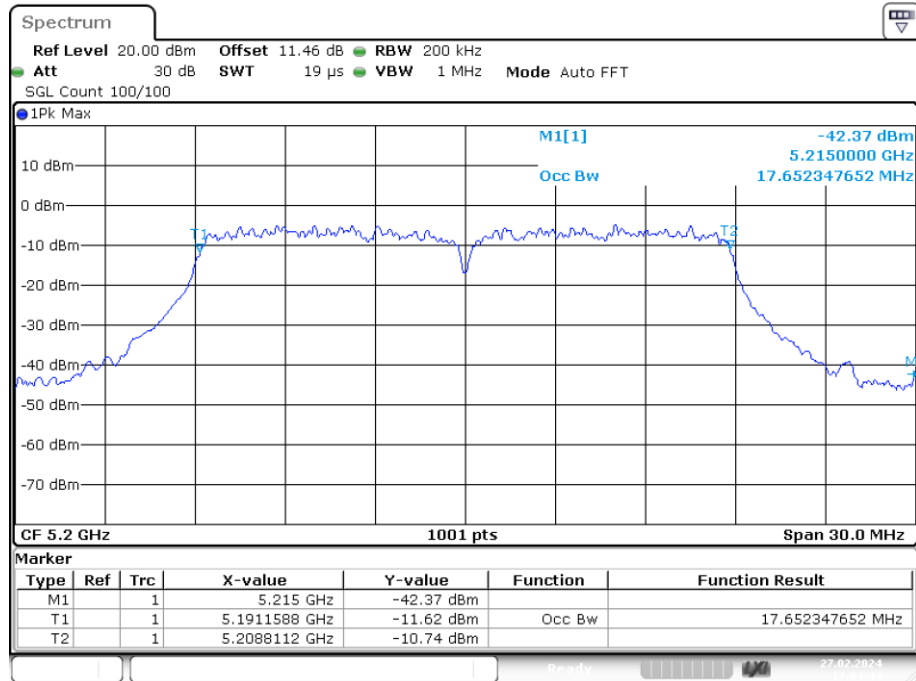
Date: 27.FEB.2024 18:53:02

OBW NVNT n20 5180MHz Ant A



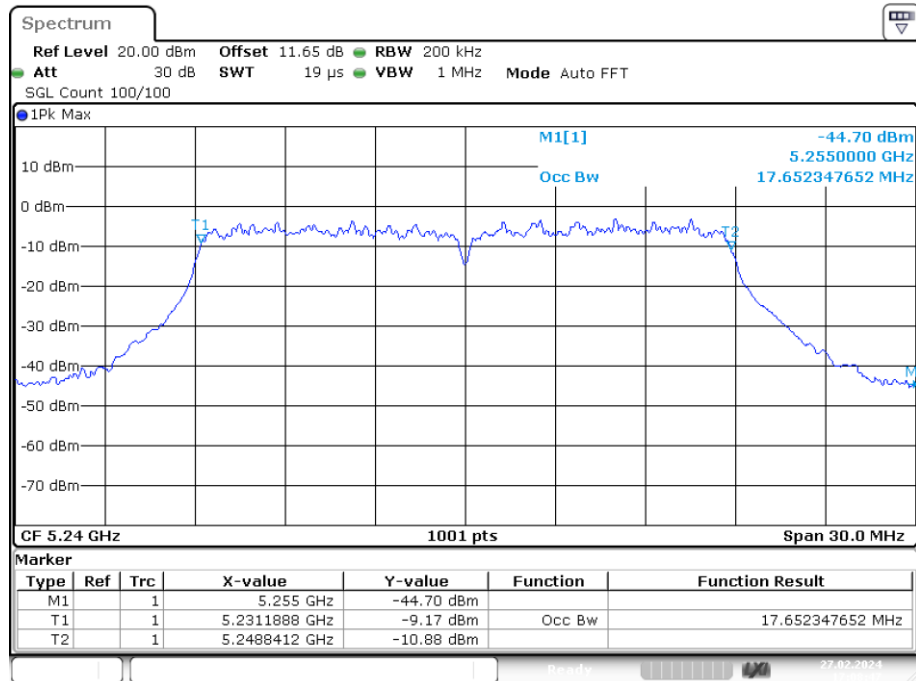
Date: 27.FEB.2024 16:59:30

OBW NVNT n20 5200MHz Ant A



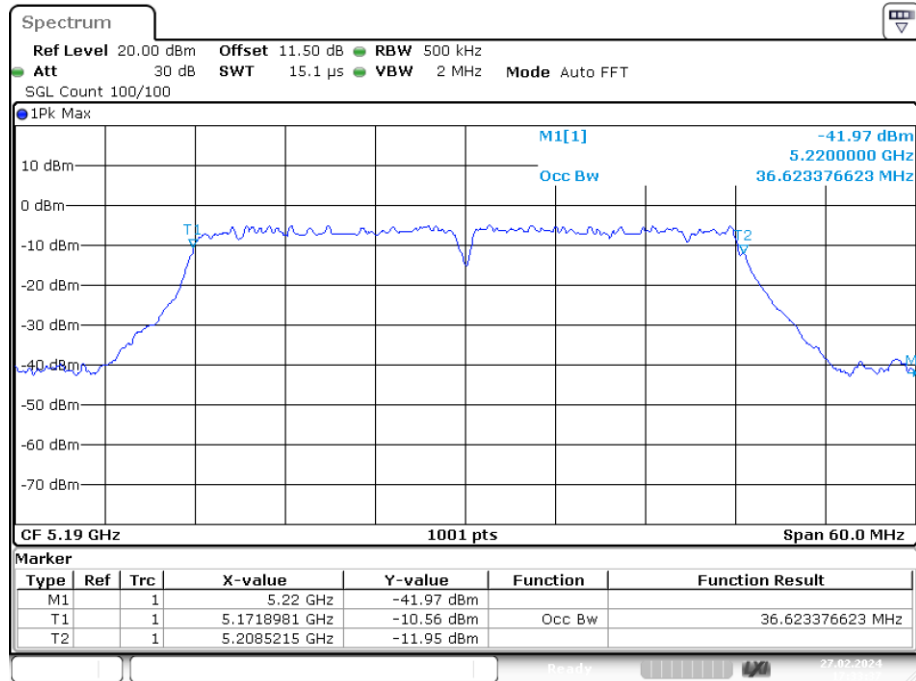
Date: 27.FEB.2024 17:04:43

OBW NVNT n20 5240MHz Ant A



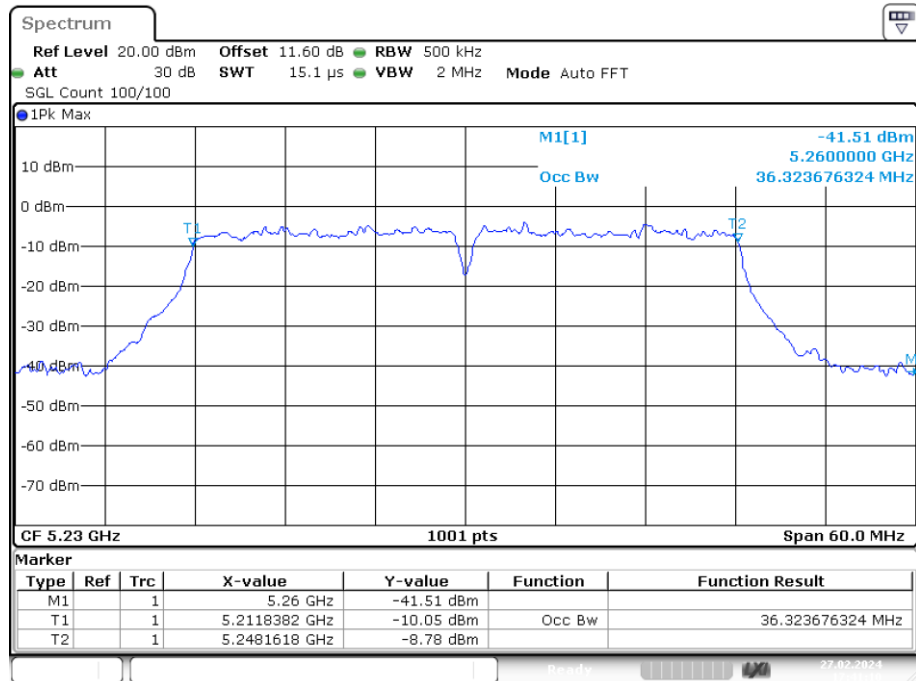
Date: 27.FEB.2024 17:08:47

OBW NVNT n40 5190MHz Ant A



Date: 27.FEB.2024 17:33:37

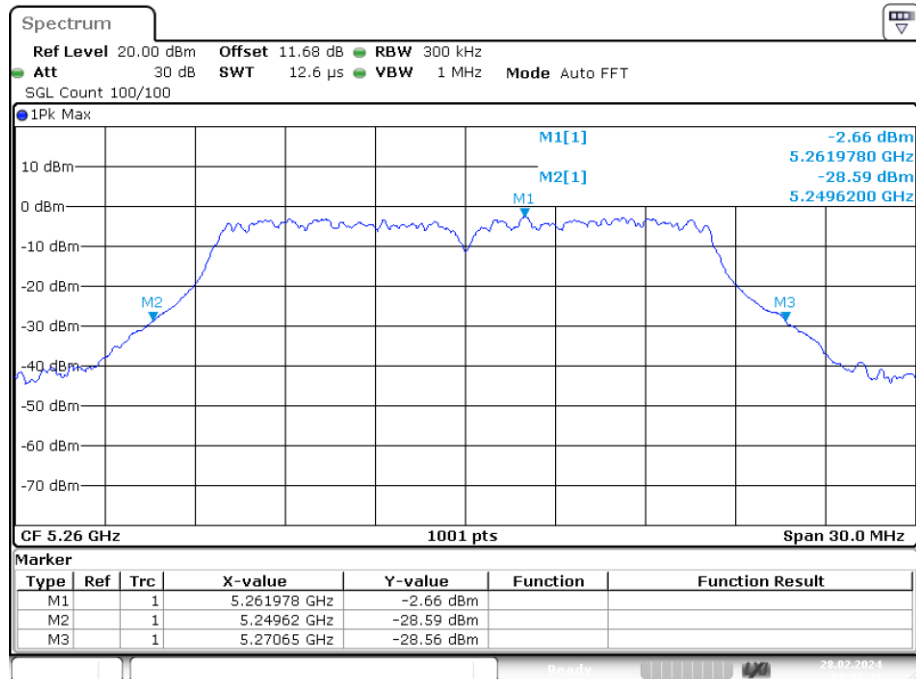
OBW NVNT n40 5230MHz Ant A



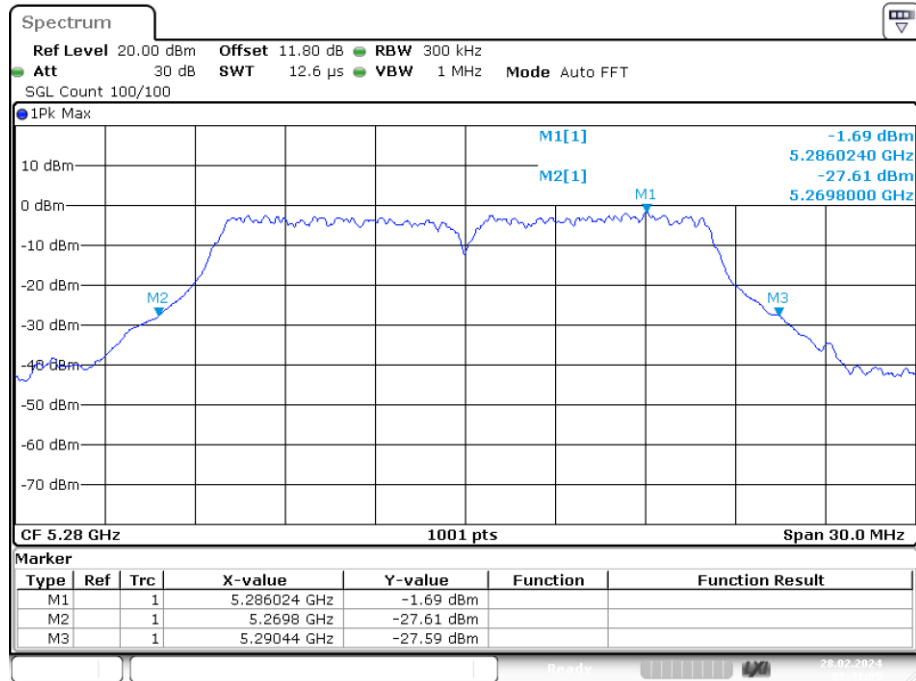
Date: 27.FEB.2024 17:41:10

Band 2 (5250-5350 MHz):**-26dB Bandwidth**

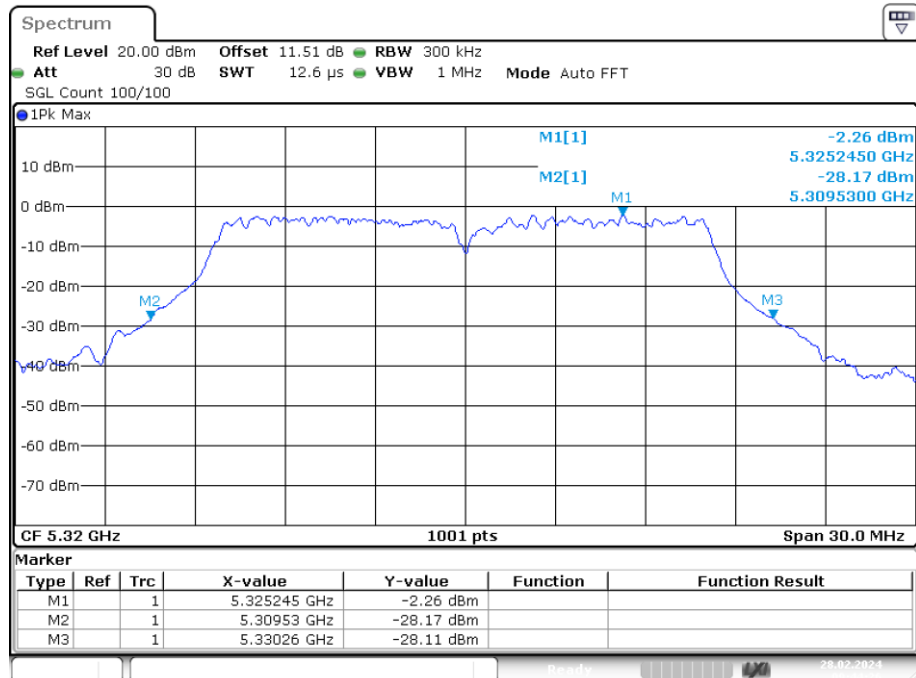
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant A	21.03	Pass
NVNT	a	5280	Ant A	20.64	Pass
NVNT	a	5320	Ant A	20.73	Pass
NVNT	ac20	5260	Ant A	21.48	Pass
NVNT	ac20	5280	Ant A	21	Pass
NVNT	ac20	5320	Ant A	21.6	Pass
NVNT	ac40	5270	Ant A	41.52	Pass
NVNT	ac40	5310	Ant A	41.28	Pass
NVNT	ac80	5290	Ant A	79.08	Pass
NVNT	n20	5260	Ant A	21	Pass
NVNT	n20	5280	Ant A	21.15	Pass
NVNT	n20	5320	Ant A	21.57	Pass
NVNT	n40	5270	Ant A	41.58	Pass
NVNT	n40	5310	Ant A	40.74	Pass

-26dB Bandwidth NVNT a 5260MHz Ant A

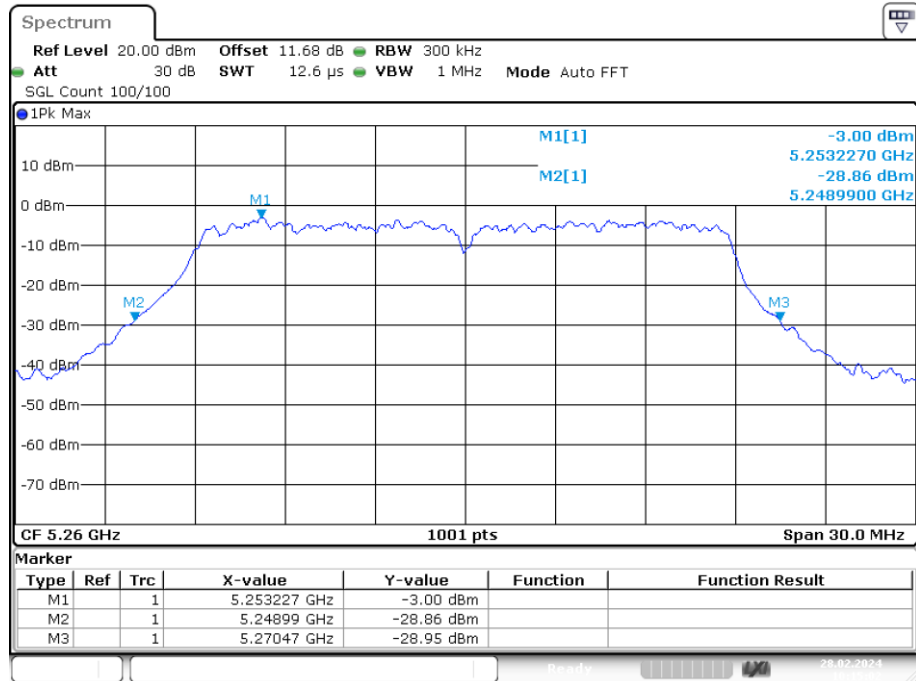
Date: 28.FEB.2024 09:37:22

-26dB Bandwidth NVNT a 5280MHz Ant A

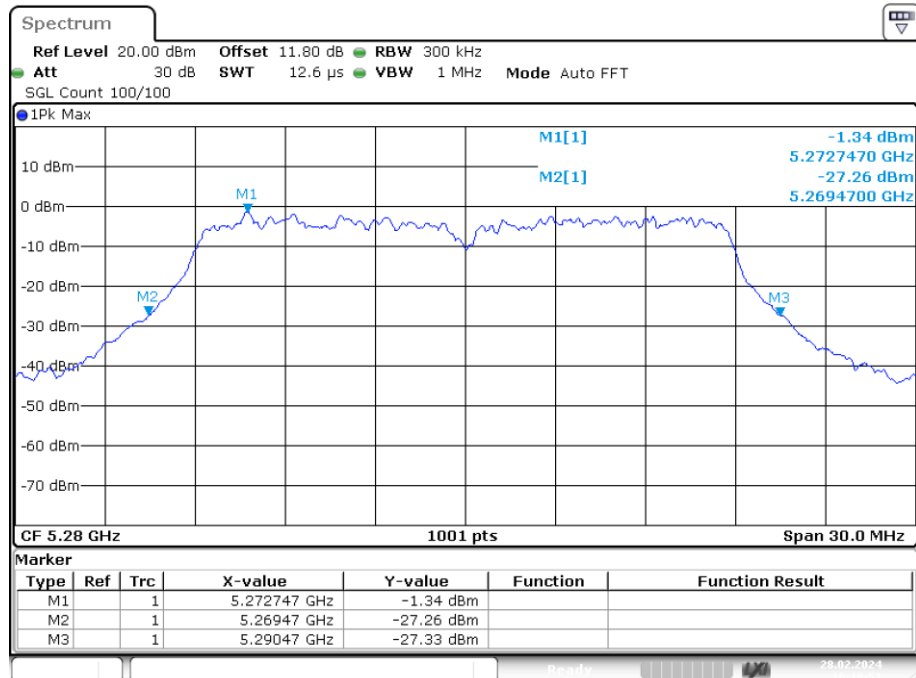
Date: 28.FEB.2024 09:41:04

-26dB Bandwidth NVNT a 5320MHz Ant A

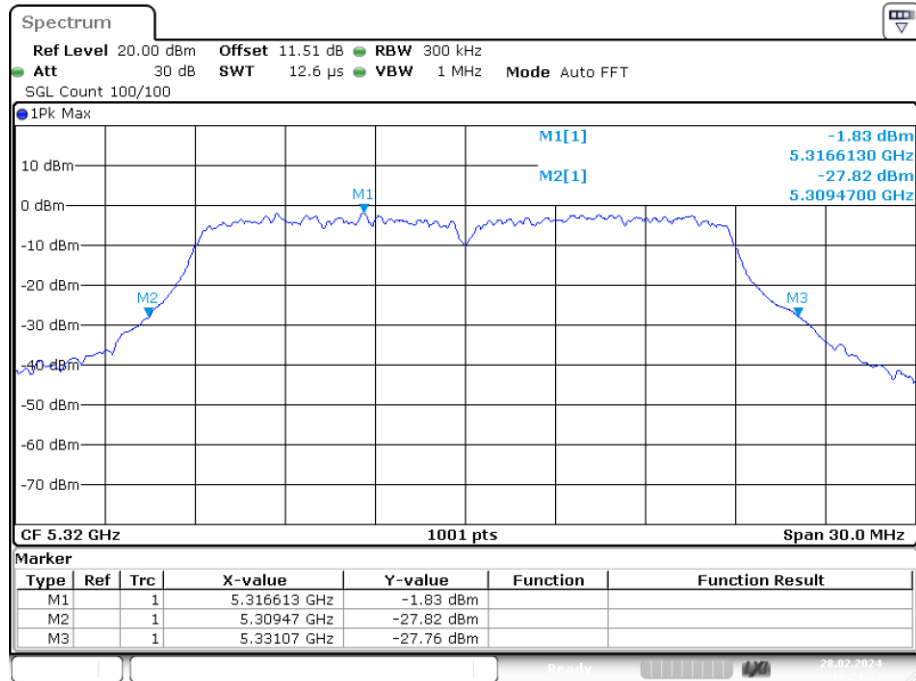
Date: 28.FEB.2024 09:44:26

-26dB Bandwidth NVNT ac20 5260MHz Ant A

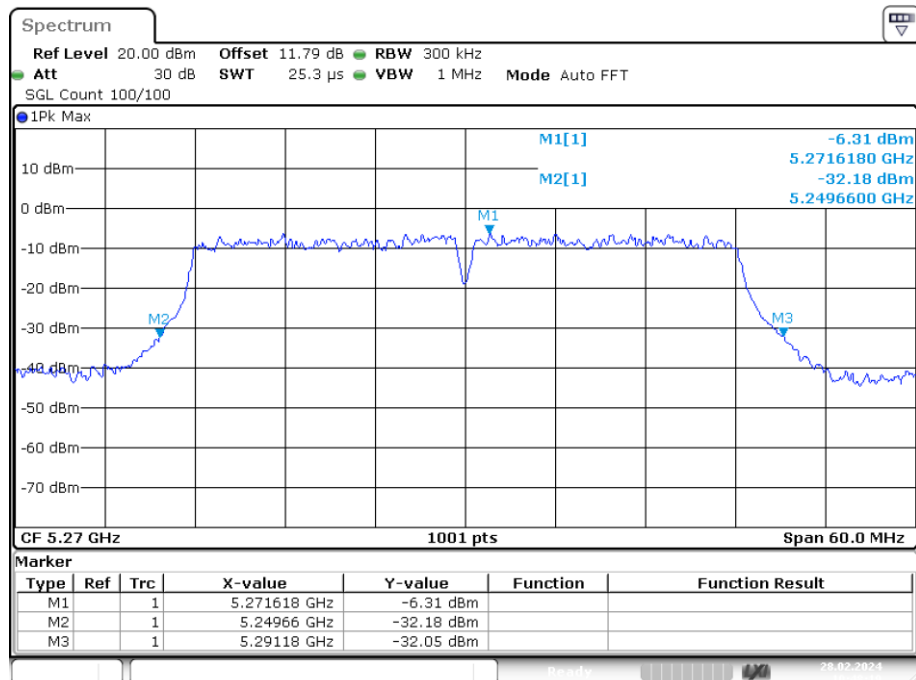
Date: 28.FEB.2024 10:15:02

-26dB Bandwidth NVNT ac20 5280MHz Ant A

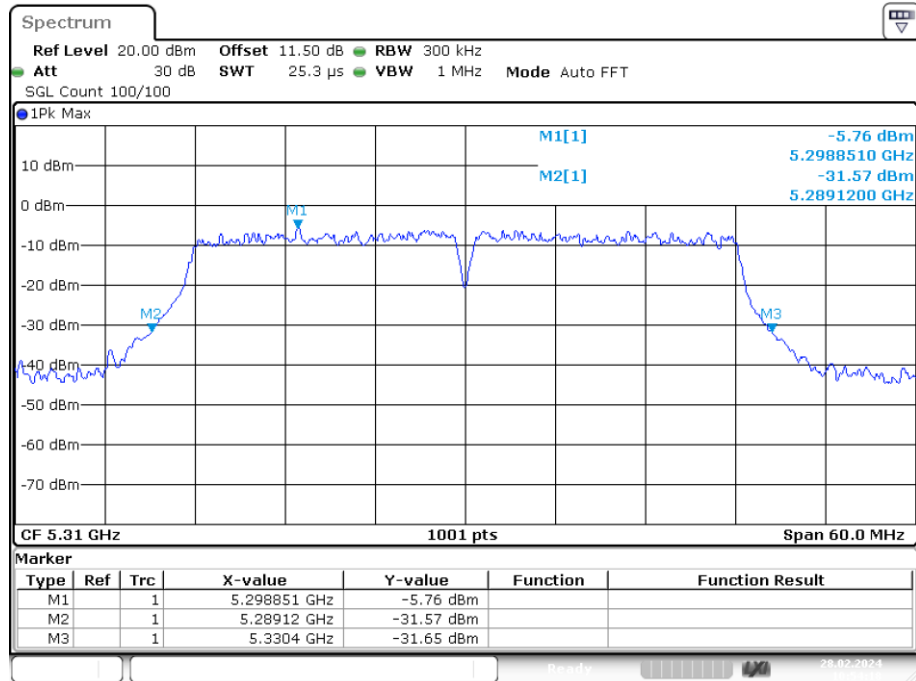
Date: 28.FEB.2024 10:19:51

-26dB Bandwidth NVNT ac20 5320MHz Ant A

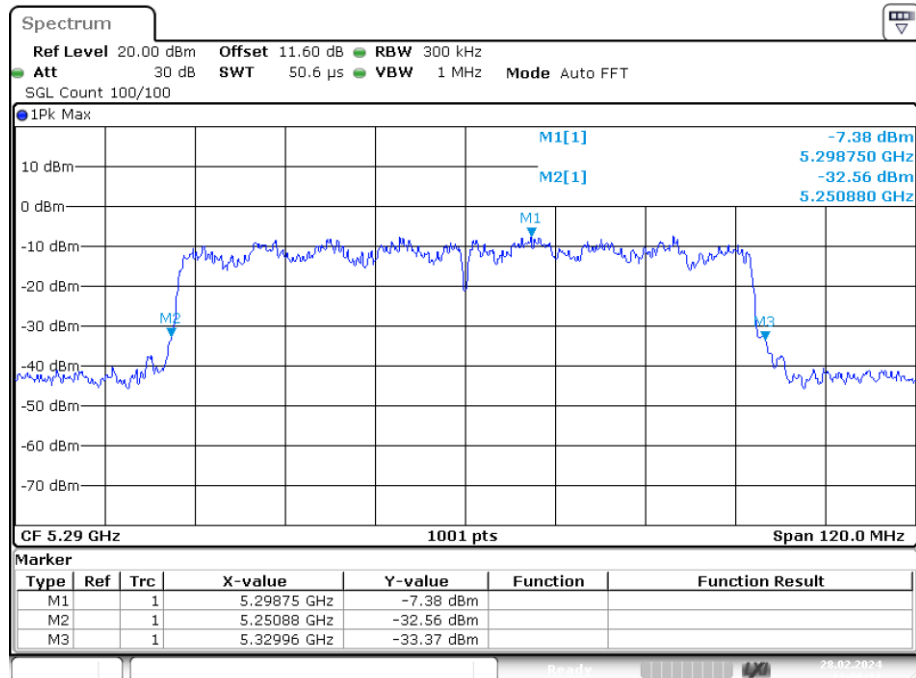
Date: 28.FEB.2024 10:24:33

-26dB Bandwidth NVNT ac40 5270MHz Ant A

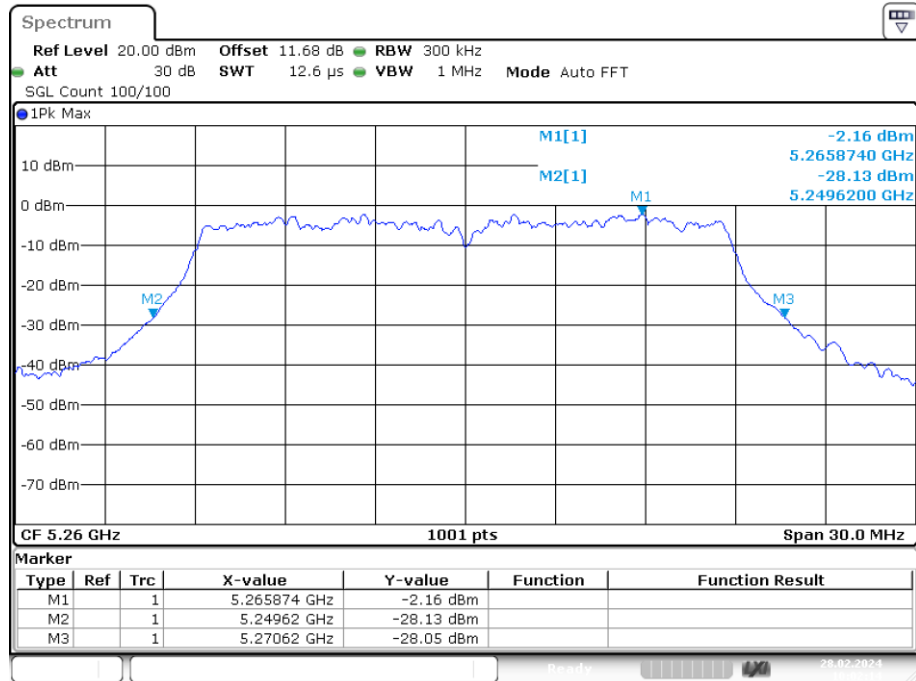
Date: 28.FEB.2024 10:48:19

-26dB Bandwidth NVNT ac40 5310MHz Ant A

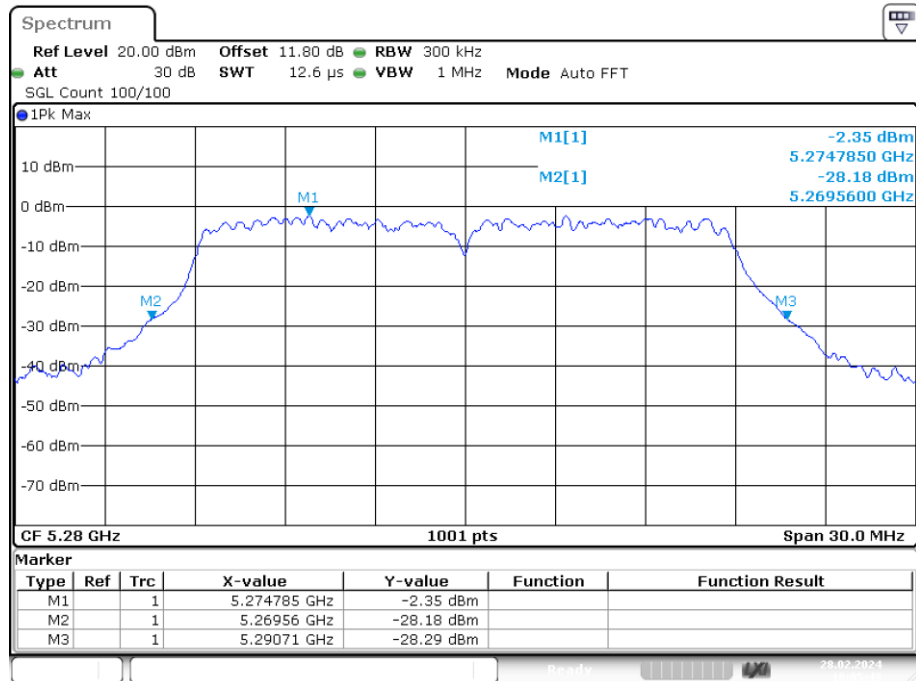
Date: 28.FEB.2024 10:54:18

-26dB Bandwidth NVNT ac80 5290MHz Ant A

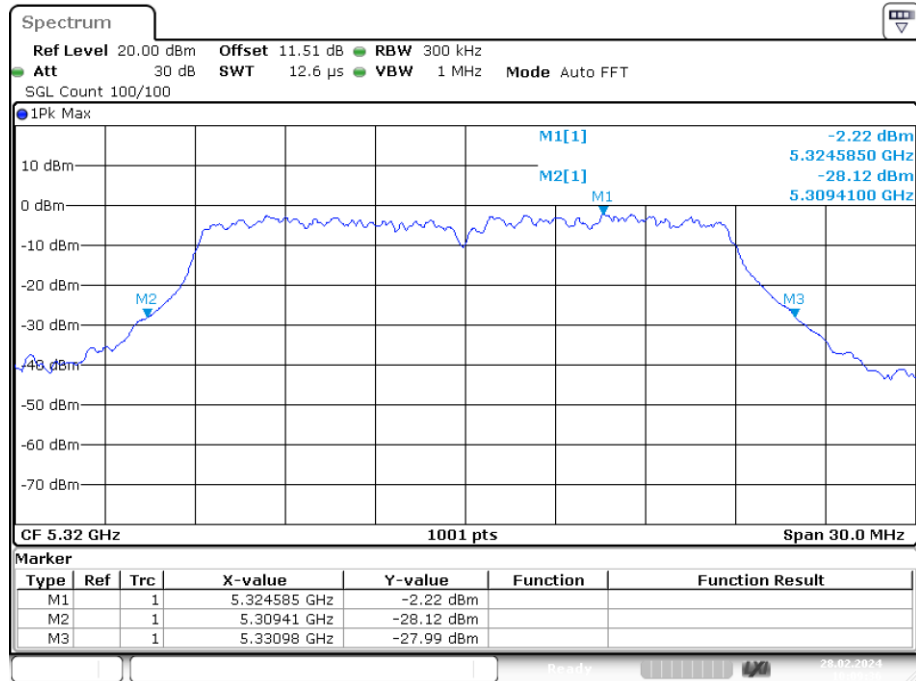
Date: 28.FEB.2024 11:06:10

-26dB Bandwidth NVNT n20 5260MHz Ant A

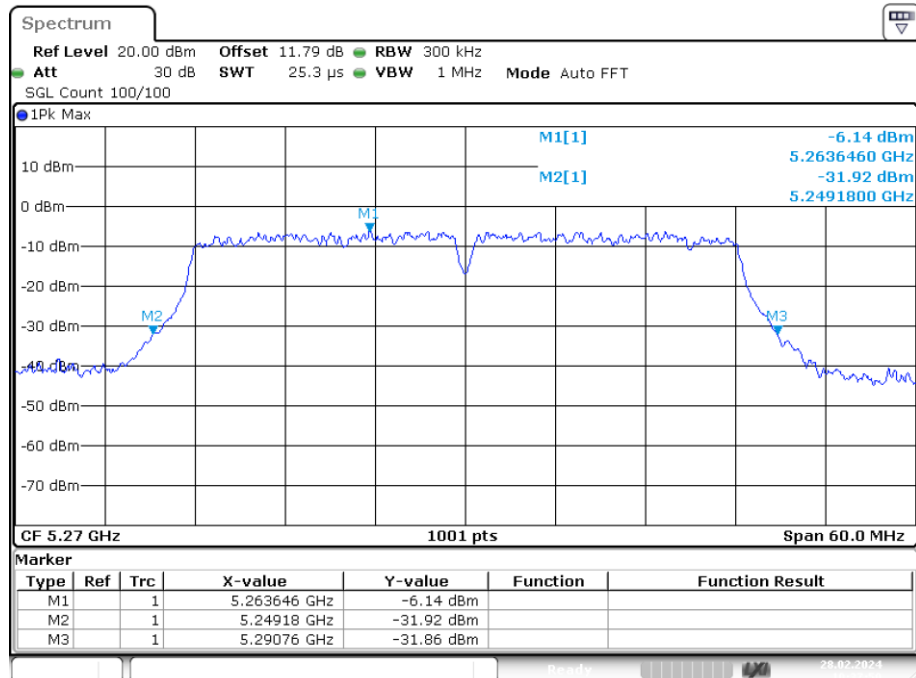
Date: 28.FEB.2024 10:02:15

-26dB Bandwidth NVNT n20 5280MHz Ant A

Date: 28.FEB.2024 10:05:48

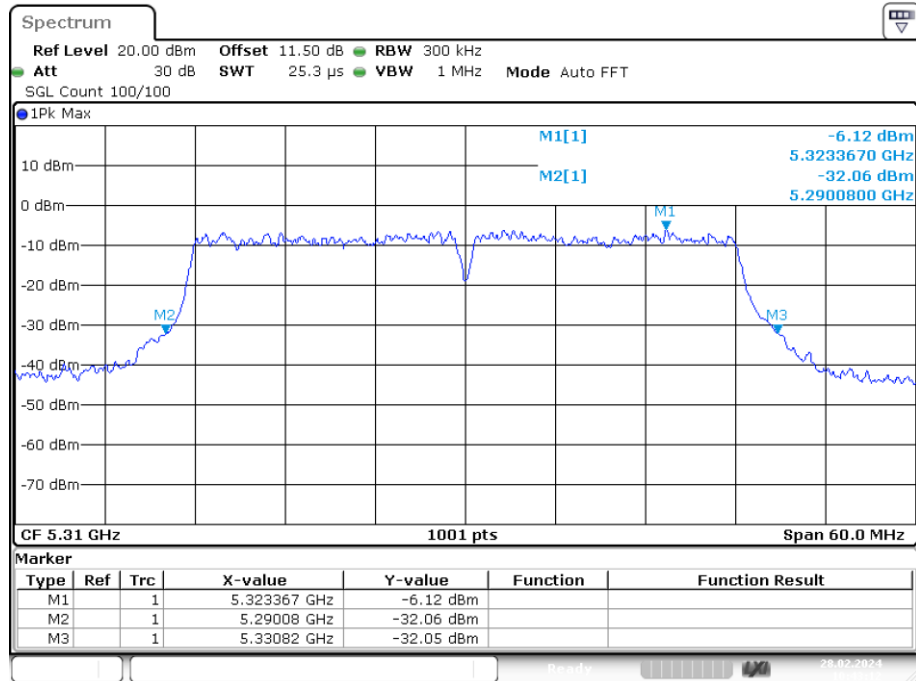
-26dB Bandwidth NVNT n20 5320MHz Ant A

Date: 28.FEB.2024 10:09:35

-26dB Bandwidth NVNT n40 5270MHz Ant A

Date: 28.FEB.2024 10:37:50

-26dB Bandwidth NVNT n40 5310MHz Ant A

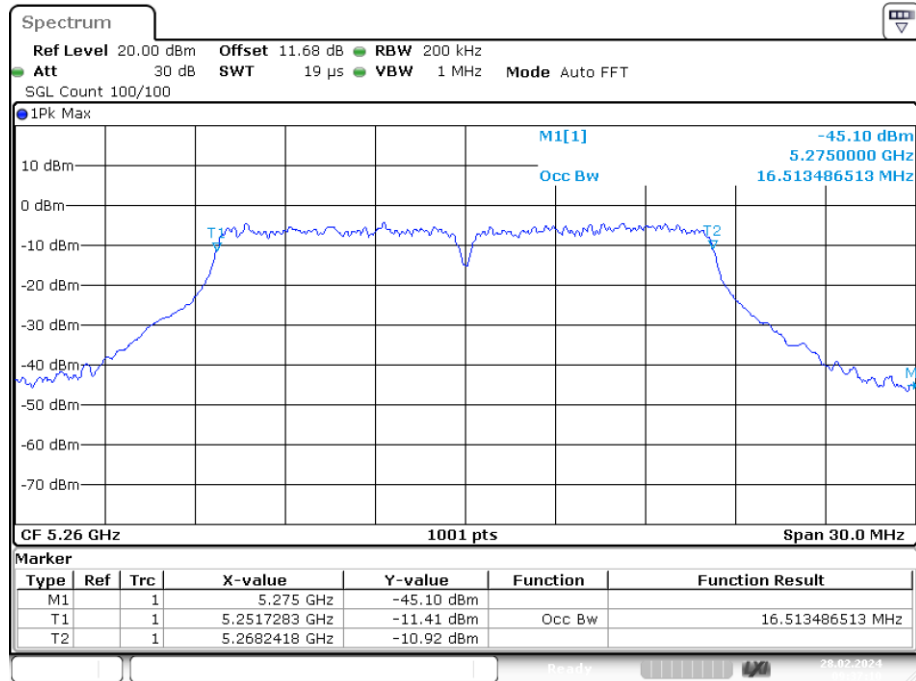


Date: 28.FEB.2024 10:43:12

Occupied Channel Bandwidth

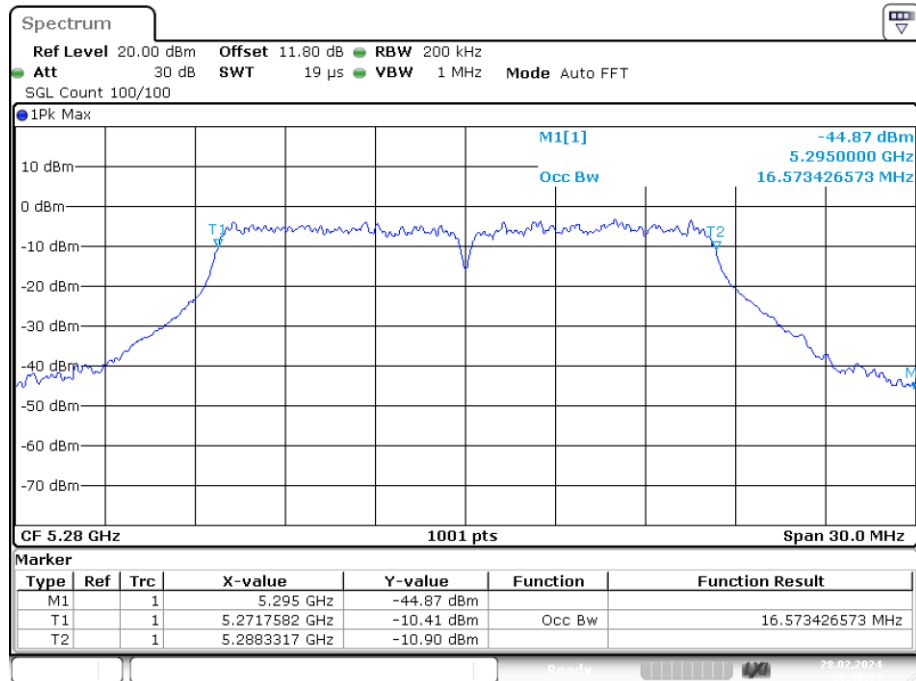
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant A	16.513
NVNT	a	5280	Ant A	16.573
NVNT	a	5320	Ant A	16.633
NVNT	ac20	5260	Ant A	17.712
NVNT	ac20	5280	Ant A	17.682
NVNT	ac20	5320	Ant A	17.652
NVNT	ac40	5270	Ant A	36.204
NVNT	ac40	5310	Ant A	36.444
NVNT	ac80	5290	Ant A	74.925
NVNT	n20	5260	Ant A	17.652
NVNT	n20	5280	Ant A	17.832
NVNT	n20	5320	Ant A	17.742
NVNT	n40	5270	Ant A	36.384
NVNT	n40	5310	Ant A	36.144

OBW NVNT a 5260MHz Ant A



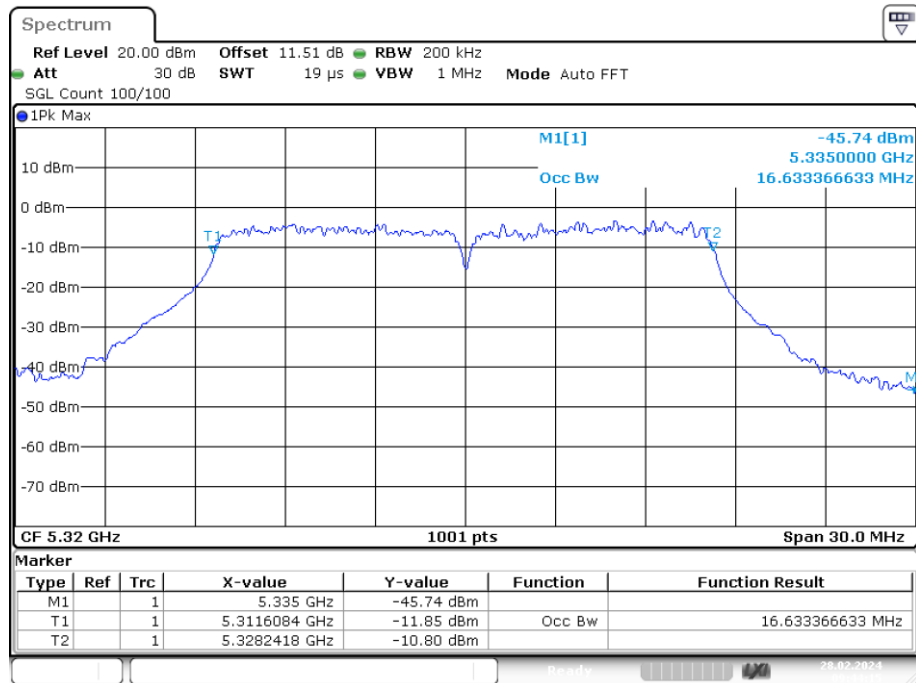
Date: 28.FEB.2024 09:37:10

OBW NVNT a 5280MHz Ant A



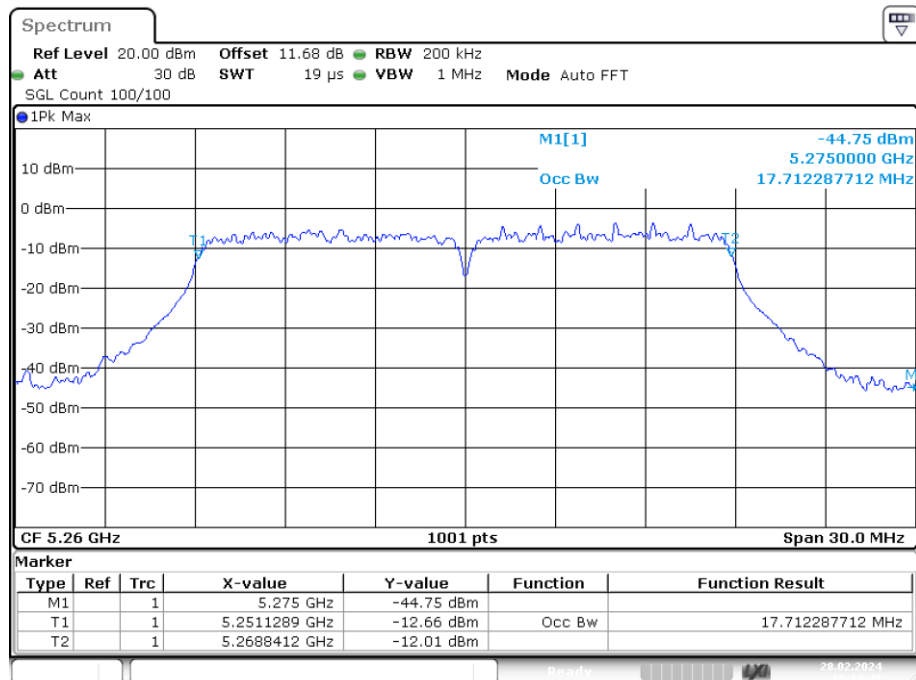
Date: 28.FEB.2024 09:40:54

OBW NVNT a 5320MHz Ant A



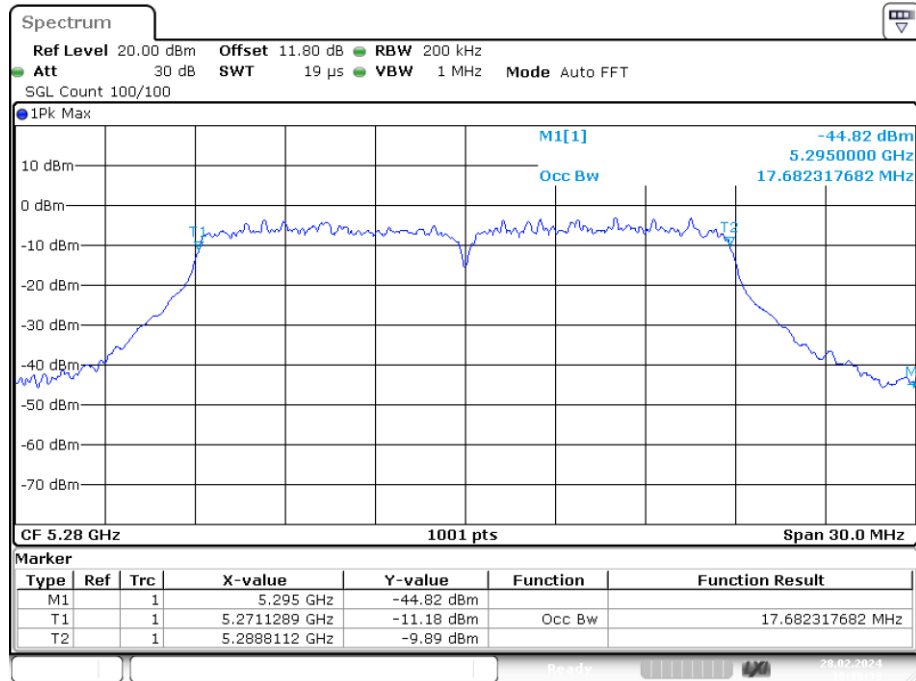
Date: 28.FEB.2024 09:44:15

OBW NVNT ac20 5260MHz Ant A



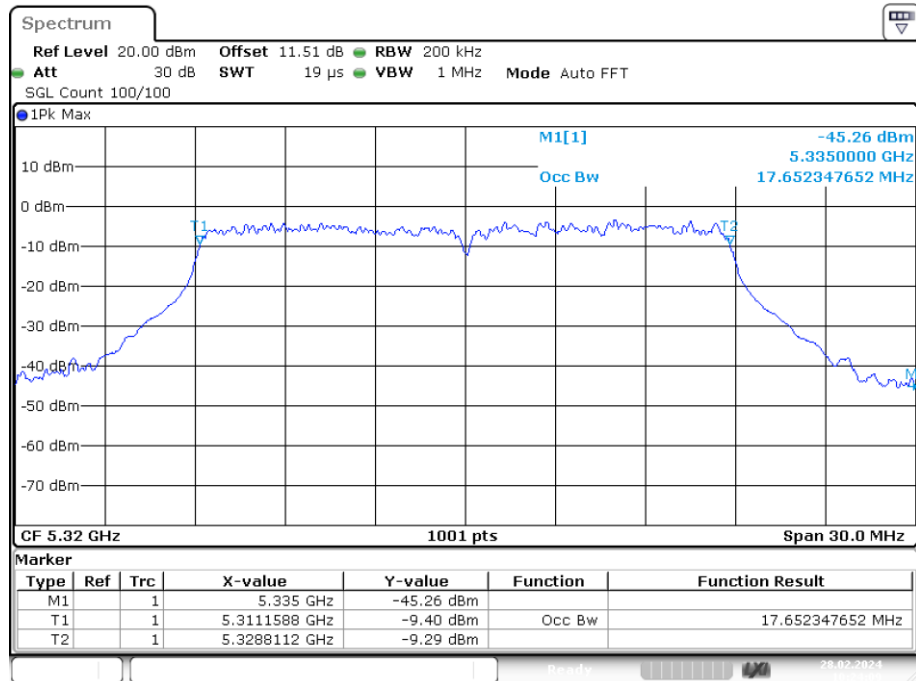
Date: 28.FEB.2024 10:14:45

OBW NVNT ac20 5280MHz Ant A



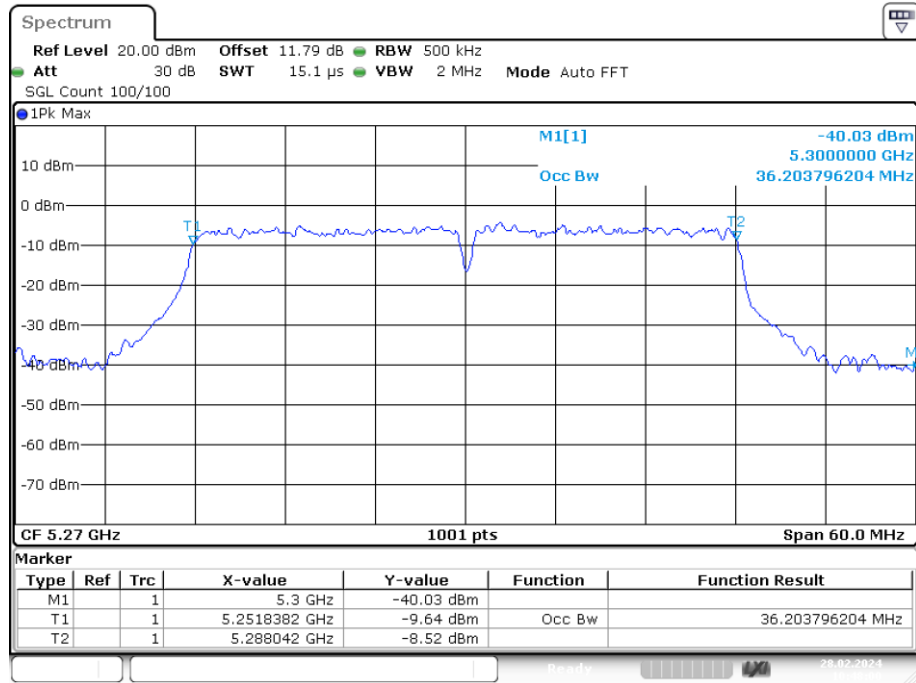
Date: 28.FEB.2024 10:19:33

OBW NVNT ac20 5320MHz Ant A



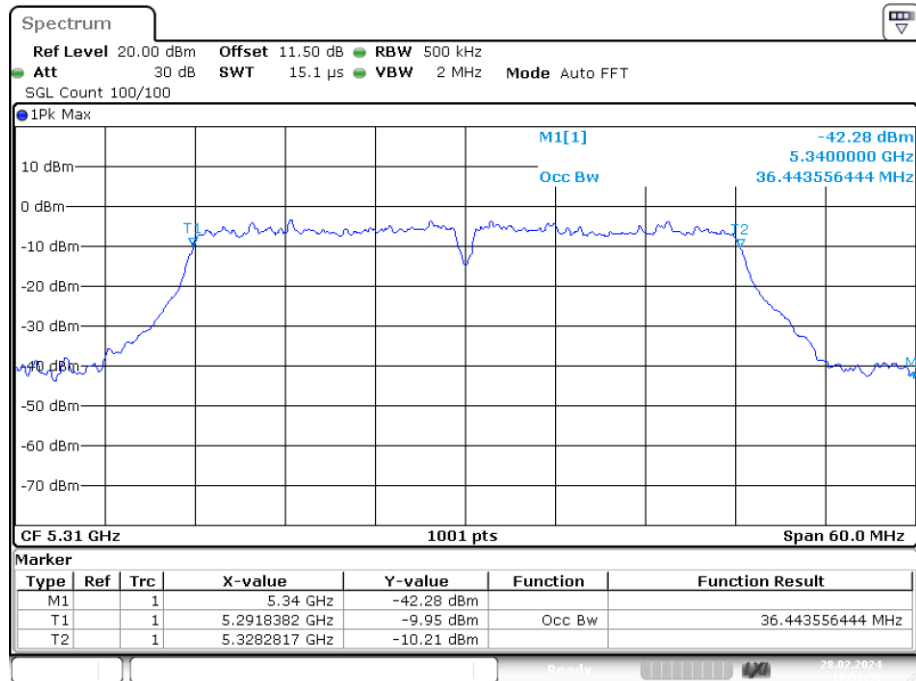
Date: 28.FEB.2024 10:24:08

OBW NVNT ac40 5270MHz Ant A



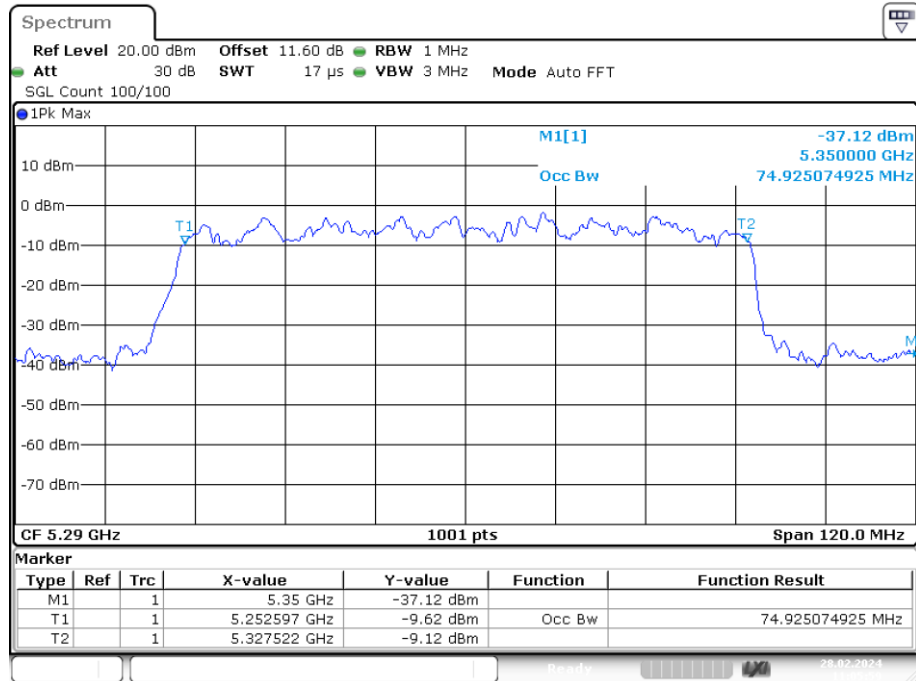
Date: 28.FEB.2024 10:48:00

OBW NVNT ac40 5310MHz Ant A



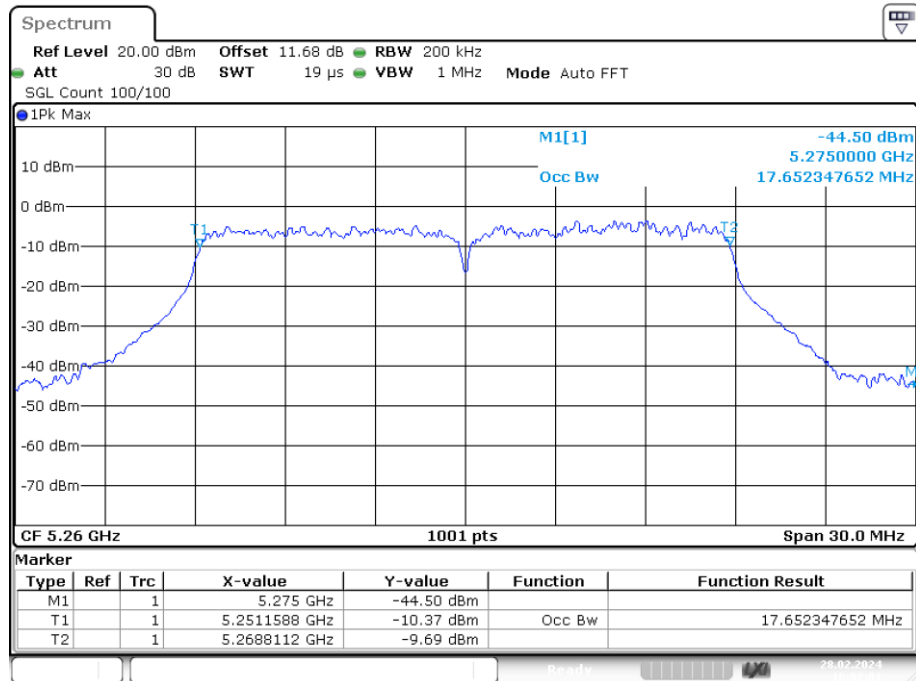
Date: 28.FEB.2024 10:53:57

OBW NVNT ac80 5290MHz Ant A



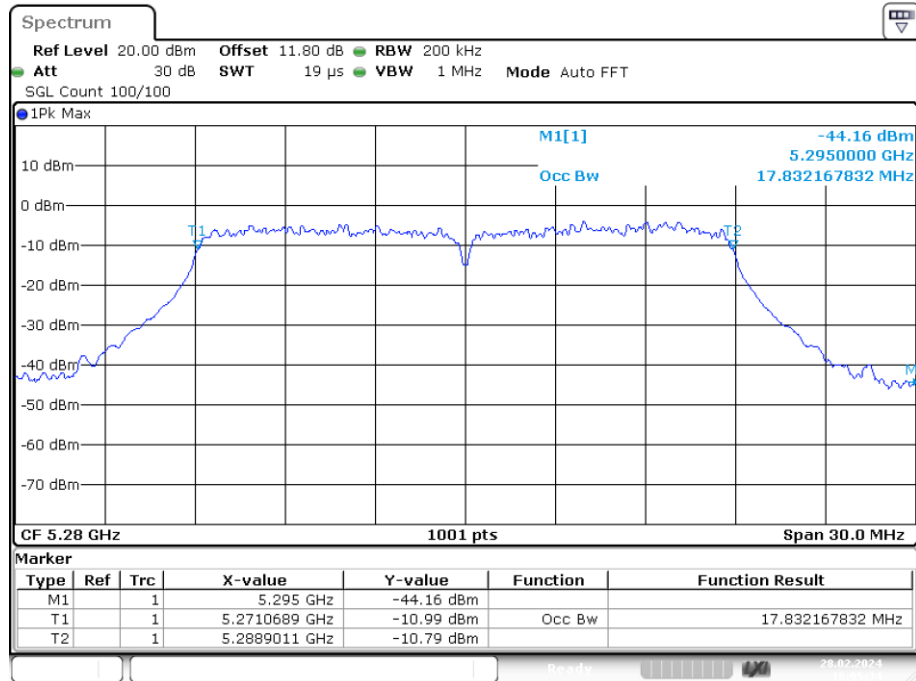
Date: 28.FEB.2024 11:05:58

OBW NVNT n20 5260MHz Ant A



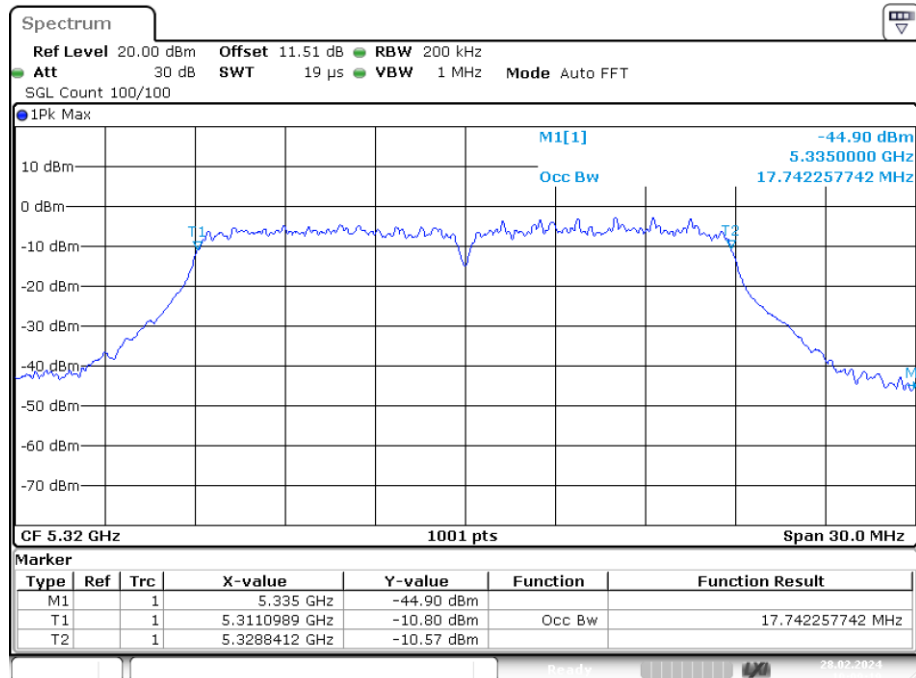
Date: 28.FEB.2024 11:02:02

OBW NVNT n20 5280MHz Ant A



Date: 28.FEB.2024 10:05:33

OBW NVNT n20 5320MHz Ant A



Date: 28.FEB.2024 10:09:19