



FCC TEST REPORT

FCC ID: 2BQHE-R80

On Behalf of

Guangdong Gilong Technology Co., Ltd.

Thermal Printer

Model No.: See model list

Prepared for : Guangdong Gilong Technology Co., Ltd.
Address : 4-5F, Building A11, Haidi Fashion Meidu Industrial Park, Haifeng
County, Shanwei, Guangdong, 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 : A2506025-C01-R03
Date of Receipt : June 10, 2025
Date of Test : June 10, 2025 - August 13, 2025
Date of Report : August 13, 2025
Version Number : V0
Test Result : Pass

TABLE OF CONTENTS

	Description	Page
1	TEST SUMMARY	5
1.1	MEASUREMENT UNCERTAINTY.....	5
2	GENERAL INFORMATION	6
2.1	GENERAL DESCRIPTION OF EUT	6
2.2	TEST MODE	7
2.3	TEST FACILITY	7
2.4	DESCRIPTION OF SUPPORT UNITS	8
2.5	DEVIATION FROM STANDARDS.....	8
2.6	ABNORMALITIES FROM STANDARD CONDITIONS.....	8
2.7	OTHER INFORMATION REQUESTED BY THE CUSTOMER	8
2.8	ADDITIONAL INSTRUCTIONS	8
3	TEST INSTRUMENTS LIST	9
4	TEST RESULTS AND MEASUREMENT DATA.....	11
4.1	ANTENNA REQUIREMENT:	11
4.2	CONDUCTED EMISSIONS	12
4.3	EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH.....	15
4.4	DUTY CYCLE	44
4.5	MAXIMUM CONDUCTED OUTPUT POWER.....	46
4.6	POWER SPECTRAL DENSITY	48
4.7	RADIATED BAND EDGE.....	63
4.8	CONDUCTED BAND EDGE.....	75
4.9	RADIATED EMISSION	88
4.10	CONDUCTED SPURIOUS EMISSION.....	107
5	PHOTOS OF EUT	122
6	MODEL LIST	123

TEST REPORT DECLARATION

Applicant : Guangdong Gilong Technology Co., Ltd.
Address : 4-5F, Building A11, Haidi Fashion Meidu Industrial Park, Haifeng County,
Shanwei, Guangdong, China.
Manufacturer : Guangdong Gilong Technology Co., Ltd.
Address : 4-5F, Building A11, Haidi Fashion Meidu Industrial Park, Haifeng County,
Shanwei, Guangdong, China.
EUT Description : Thermal Printer
(A) Model No. : See model list
(B) Trademark : **N/A**

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart E, ANSI C63.10:2013

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

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 E 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).....:

Jack Xu

Project Manager


.....

Date of issue.....:

August 13, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	August 13, 2025	Initial released Issue	Yannis Wen

1 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	Section 15.203	PASS
AC Power Line Conducted Emission	Section 15.207(a)	PASS
Maximum Conducted Output Power	Section 15.407(a) (c) (g)	PASS
Power Spectral Density	Section 15.407(a) (c) (g)	PASS
Undesirable Emission	Section 15.407(b) (c) (g)	PASS
Conducted Spurious Emission	Section 15.407(b) (c) (g)	PASS
Radiated Emission	15.205&15.209 (a)	PASS
Conducted Band Edge	Section 15.407(b) (c) (g)	PASS
Radiated Band Edge	15.205&15.209 (a)	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 Radiation Emission test in 3m chamber (18GHz to 40GHz)	4.31 dB(Polarize: V)
	4.30 dB(Polarize: H)
Uncertainty for radio frequency	5.06×10^{-8} GHz
Uncertainty for conducted RF Power	0.40dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2 General Information

2.1 General Description of EUT

EUT Name : Thermal Printer
Model No. : See model list
DIFF. : There is no difference except the name of the model. All tests are made with the JP-R80F model.
Power supply : AC 120V from power line.

Radio Technology : 5G WIFI

Operation Frequency : 802.11a/n(HT20)/ac(VHT20): 5260~5320MHz; 5500~5700MHz
802.11n(HT40)/ac(VHT40): 5270~5310MHz; 5510~5670MHz

Channel separation : 20MHz for 802.11a/ 802.11ac(VHT20)/ 802.11n(HT20)
40MHz for 802.11ac(VHT40)/ 802.11n(HT40)

Modulation technology: : IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ac: OFDM (64QAM, 16QAM, 256QAM, QPSK, BPSK)

Antenna Type : FPC antenna, Maximum Gain is 1.63dBi
(Antenna information is provided by applicant.)

Software version : V1.0
Hardware version : V1.0

Intend use environment : Residential, commercial and light industrial environment

2.2 Test mode

Band 2: 5250-5350MHz			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11a	6	Low	5260
	6	Middle	5280
	6	High	5320
IEEE 802.11n(HT20)	MCS0	Low	5260
	MCS0	Middle	5280
	MCS0	High	5320
IEEE 802.11ac(VHT20)	MCS0	Low	5260
	MCS0	Middle	5280
	MCS0	High	5320
IEEE 802.11n(HT40)	MCS0	Low	5270
	MCS0	High	5310
IEEE 802.11ac(VHT40)	MCS0	Low	5270
	MCS0	High	5310
Band 3: 5470-5725MHz			
Mode	data rate (Mbps)(see Note)	Channel	Frequency
IEEE 802.11a	6	Low	5500
	6	Middle	5580
	6	High	5700
IEEE 802.11n(HT20)	MCS0	Low	5500
	MCS0	Middle	5580
	MCS0	High	5700
IEEE 802.11ac(VHT20)	MCS0	Low	5500
	MCS0	Middle	5580
	MCS0	High	5700
IEEE 802.11n(HT40)	MCS0	Low	5510
	MCS0	High	5670
IEEE 802.11ac(VHT40)	MCS0	Low	5510
	MCS0	High	5670

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

2.4 Description of Support Units

Accessories	:	AC ADAPTER
Manufacturer	:	UPRITE ELECTRONIC Co., Ltd
Model	:	ZL-AD048WD2402000
INPUT	:	100-240V~50/60Hz 1.5A
OUTPUT	:	24.0V $\overline{\text{---}}$ 2.0A 48.0W
Accessories		AC ADAPTER
Manufacturer		UPRITE ELECTRONIC Co., Ltd
Model		ZL-D030WA2401250
INPUT		100-240V~50/60Hz 1.0A
OUTPUT		24.0V $\overline{\text{---}}$ 1250mA
Accessories		AC ADAPTER
Manufacturer		UPRITE ELECTRONIC Co., Ltd
Model		ZL-D048WE2402000
INPUT		100-240V~50/60Hz 1.0A
OUTPUT		24.0V $\overline{\text{---}}$ 2.0A 48.0W
Accessories		AC ADAPTER
Manufacturer		UPRITE ELECTRONIC Co., Ltd
Model		ZL-D060WA2402500
INPUT		100-240V~50/60Hz 1.5A
OUTPUT		24.0V $\overline{\text{---}}$ 2.5A 60.0W

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

Note: Using QRCT testing software to control EUT operation in continuous TX mode, the test software version is V4.0, and select test channel, wireless mode, The power level for the test is set to 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	2025.03.09	4Year
4*4*3 Shielded room	CHENYU	4*4*3	/	N/A	2025.03.09	4Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2024.08.08	1Year
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2024.08.08	1Year
Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2024.08.08	1Year
Receiver	R&S	ESCI	4.42 SP1	101165	2024.08.08	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	/	VULB 9168#627	2023.08.28	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2023.08.19	2Year
Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00128	2023.08.19	2Year
RF Cable	Resenberger	Cable 1	/	RE1	2024.08.08	1Year
RF Cable	Resenberger	Cable 2	/	RE2	2024.08.08	1Year
RF Cable	Resenberger	Cable 3	/	CE1	2024.08.08	1Year
Pre-amplifier	HP	HP8347A	/	2834A00455	2024.08.08	1Year
Pre-amplifier	Agilent	8449B	/	3008A02664	2024.08.08	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	/	8126-466	2024.08.08	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2024.08.08	1Year
Horn Antenna	SCHWARZBECK	BBHA 9170	/	00946	2023.08.19	2Year
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2024.08.08	1 Year
Power Meter	Agilent	E9300A	/	MY41496628	2024.08.08	1 Year
Power Sensor	DARE	RPR3006W	/	15100041SNO91	2024.08.08	1 Year
Temp. & Humid. Chamber	Teelong	TL-HW408S	/	TL-20191205-01	2025.07.14	1 Year
Electronic Thermo-Hygrometer	S.H.Qixiang	HTC-1	/	N/A	2024.08.11	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2024.08.08	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

Equipment	Manufacturer	Model No.	Firmware version	Serial No.	Last Cal.	Cal. Due day
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2025.08.04	1Year
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2025.08.04	1Year
Test Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2025.08.04	1Year
Test Receiver	ROHDE&SCHWARZ	ESCI	4.42 SP1	101165	2025.08.04	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	/	VULB 9168#627	2025.08.11	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2025.08.11	2Year
Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00128	2025.08.11	2Year
RF Cable	Resenberger	Cable 1	/	RE1	2025.08.04	1Year
RF Cable	Resenberger	Cable 2	/	RE2	2025.08.04	1Year
RF Cable	Resenberger	Cable 3	/	CE1	2025.08.04	1Year
Amplifier	HP	HP8347A	/	2834A00455	2025.08.04	1Year
Amplifier	Agilent	8449B	/	3008A02664	2025.08.04	1Year
L.I.S.N.#1	SCHWARZBECK	NSLK8126	/	8126-466	2025.08.04	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2025.08.04	1Year
Horn Antenna	SCHWARZBECK	BBHA 9170	/	00946	2025.08.11	2Year
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2025.08.04	1 Year
Power Meter	Agilent	E4419B	/	GB40202122	2025.08.04	1 Year
Power Sensor	Agilent	E9300A	/	MY41496628	2025.08.04	1 Year
Power Sensor	Agilent	E9304A	/	MY41496815	2025.08.04	1 Year
Electronic Thermo-Hygrometer	S.H.Qixiang	HTC-1	/	N/A	2025.08.04	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2025.08.04	1 Year

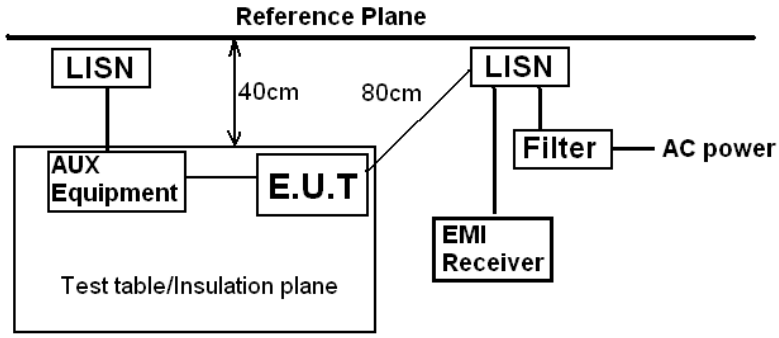
Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	Farad	Alpha-3A1
CE	EZ-EMC	Farad	Alpha-3A1
RF-CE	MTS 8310	MWRFtest	V2.0.0.0

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 internal antenna. The best case gain of the antenna is 1.63dBi for 5.25~5.35GHz, 5.47~5.725GHz	

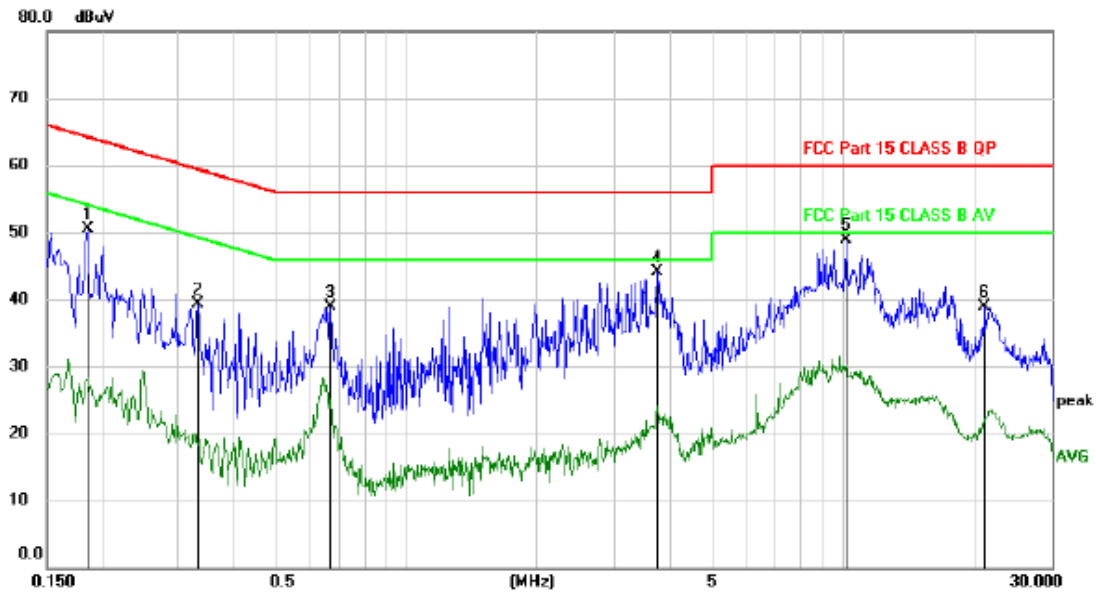
4.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		
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 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:

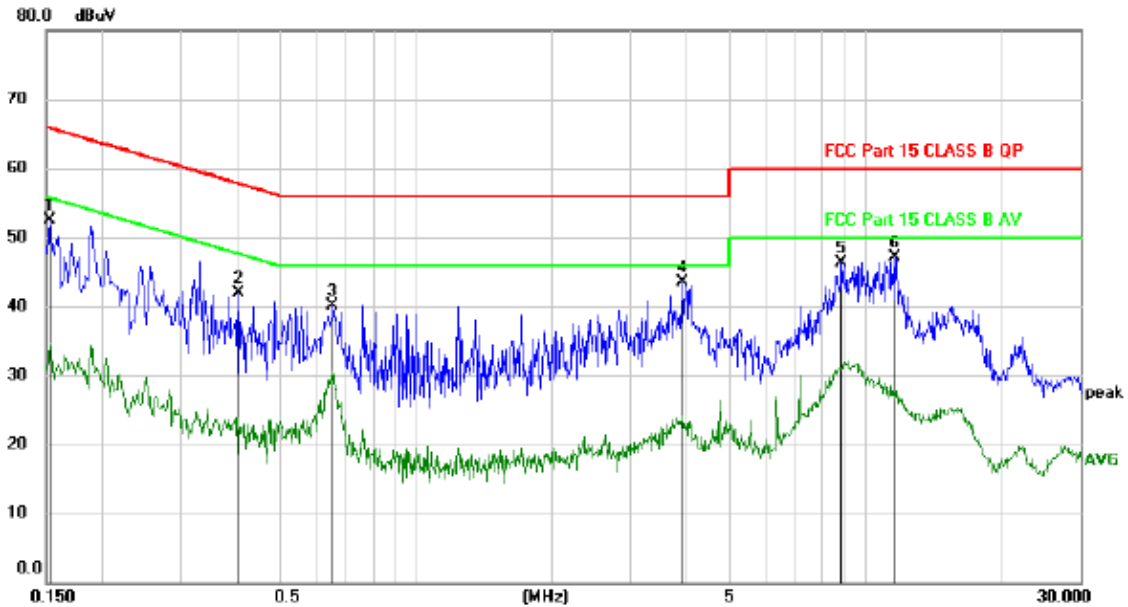


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1859	40.65	9.92	50.57	64.22	-13.65	peak	
2	0.3330	29.32	9.94	39.26	59.38	-20.12	peak	
3	0.6690	29.06	9.93	38.99	56.00	-17.01	peak	
4	3.7530	34.17	9.96	44.13	56.00	-11.87	peak	
5 *	10.1760	38.68	10.21	48.89	60.00	-11.11	peak	
6	21.1380	28.40	10.47	38.87	60.00	-21.13	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			
			dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1529	42.59	9.94	52.53	65.84	-13.31	peak
2		0.4020	32.00	9.94	41.94	57.81	-15.87	peak
3		0.6540	30.27	9.93	40.20	56.00	-15.80	peak
4	*	3.9060	33.64	9.96	43.60	56.00	-12.40	peak
5		8.8528	36.07	10.18	46.25	60.00	-13.75	peak
6		11.6700	36.87	10.25	47.12	60.00	-12.88	peak

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

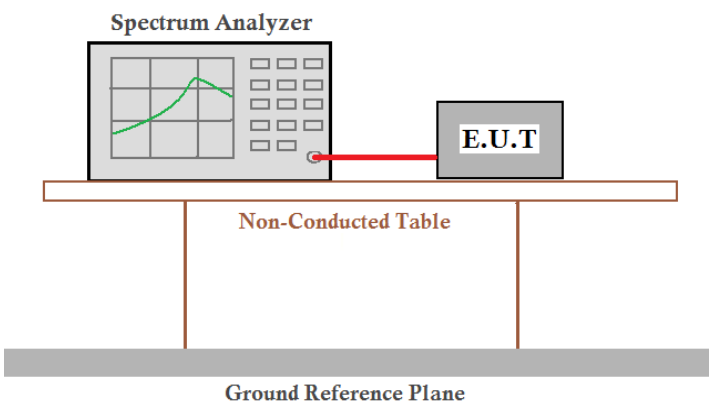
(Reference Only)

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

Remark: 1.All modes have been tested, and only worst data of 802.11N mode, Channel 5500MHz was listed in this report.

2. All power supplies have been tested, and this report only reflects the worst power supply data (ZL-D060WA2402500)

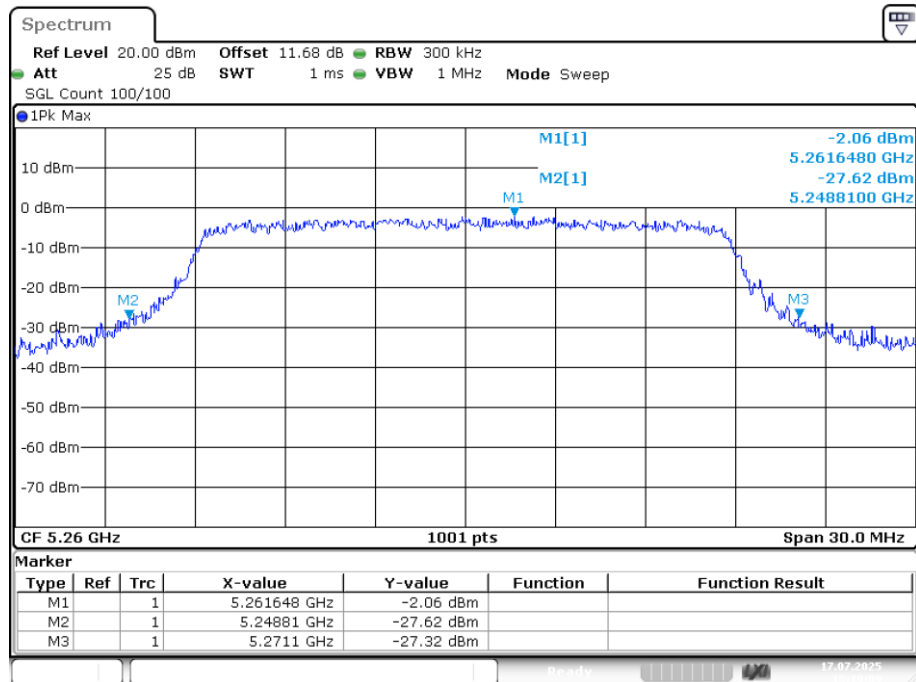
4.3 Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	N/A
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test procedure:	1. Set center frequency to the nominal EUT channel center frequency. 2. Set span = 1.5 times to 5.0 times the OBW. 3. Set RBW = 1% to 5% of the OBW 4. Set VBW ≥ 3 RBW 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used. 6. Use the 99% power bandwidth function of the instrument (if available). 7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.
Test results:	Pass

Measurement Data:

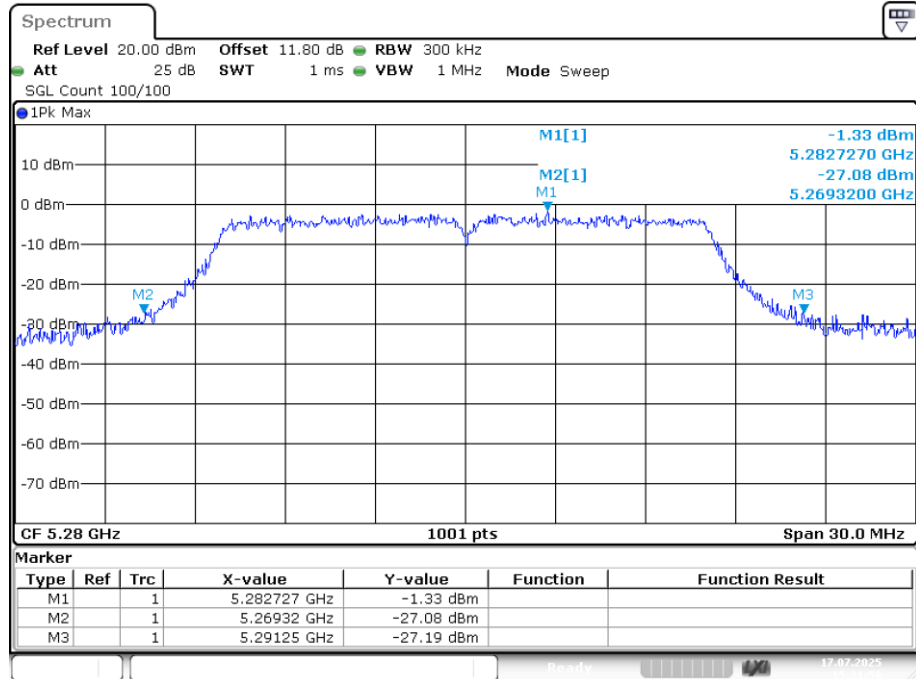
**Band 2 (5250-5350 MHz):
-26dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	22.29	N/A	Pass
NVNT	a	5280	Ant1	21.93	N/A	Pass
NVNT	a	5320	Ant1	22.08	N/A	Pass
NVNT	ac20	5260	Ant1	22.17	N/A	Pass
NVNT	ac20	5280	Ant1	22.14	N/A	Pass
NVNT	ac20	5320	Ant1	21.75	N/A	Pass
NVNT	ac40	5270	Ant1	38.52	N/A	Pass
NVNT	ac40	5310	Ant1	38.58	N/A	Pass
NVNT	n20	5260	Ant1	22.71	N/A	Pass
NVNT	n20	5280	Ant1	22.23	N/A	Pass
NVNT	n20	5320	Ant1	22.86	N/A	Pass
NVNT	n40	5270	Ant1	38.34	N/A	Pass
NVNT	n40	5310	Ant1	38.16	N/A	Pass

-26dB Bandwidth NVNT a 5260MHz Ant1


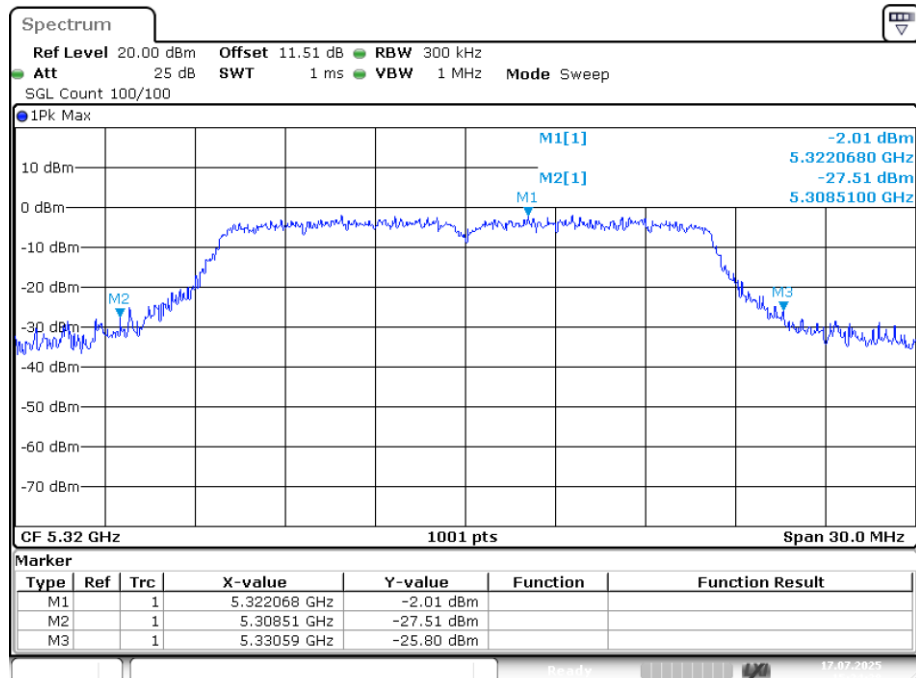
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-26dB Bandwidth NVNT a 5280MHz Ant1



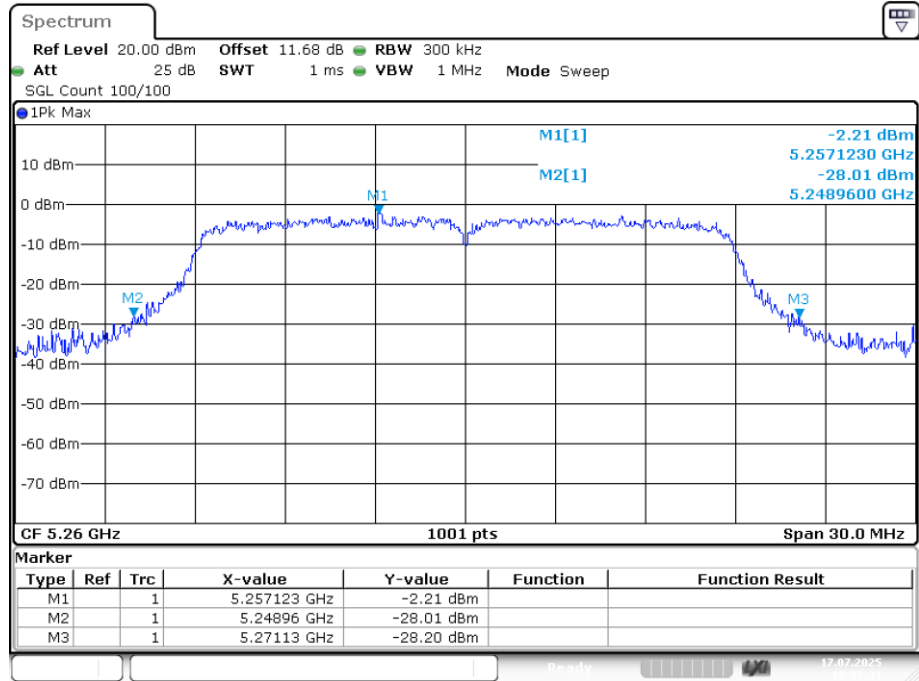
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-26dB Bandwidth NVNT a 5320MHz Ant1



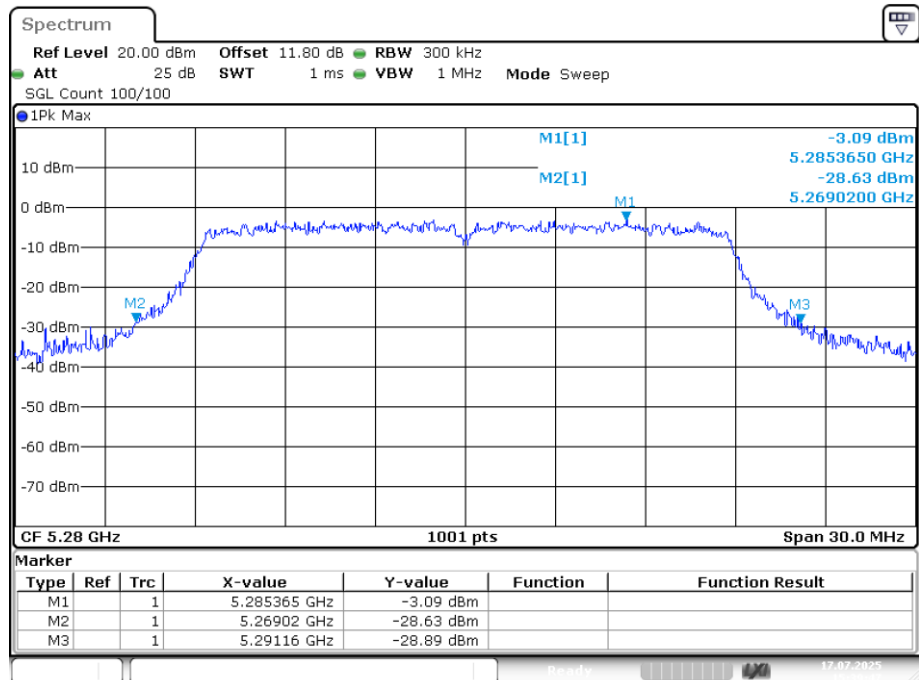
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-26dB Bandwidth NVNT ac20 5260MHz Ant1



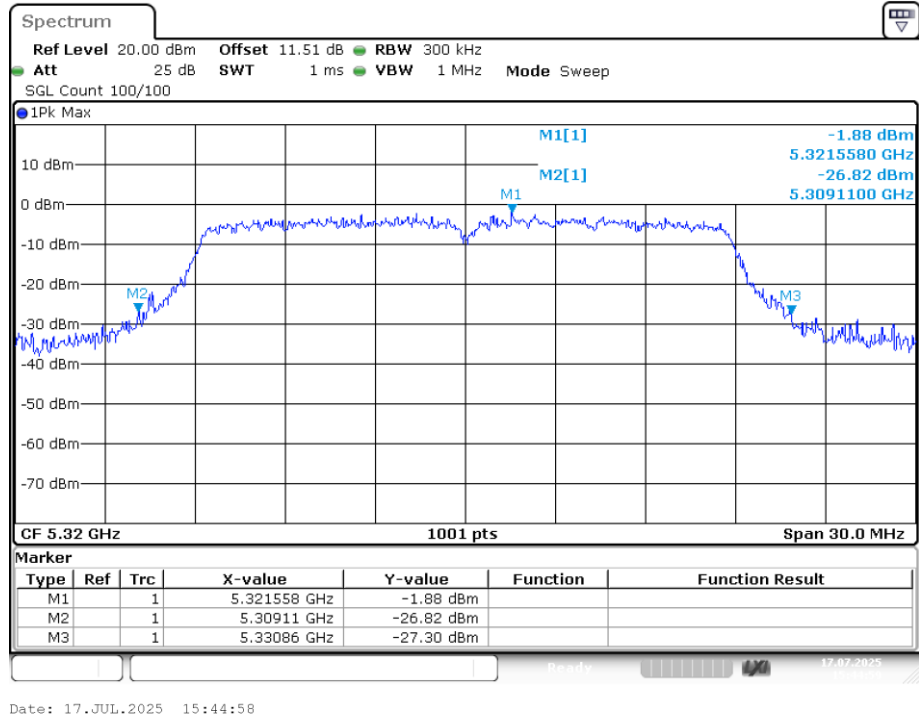
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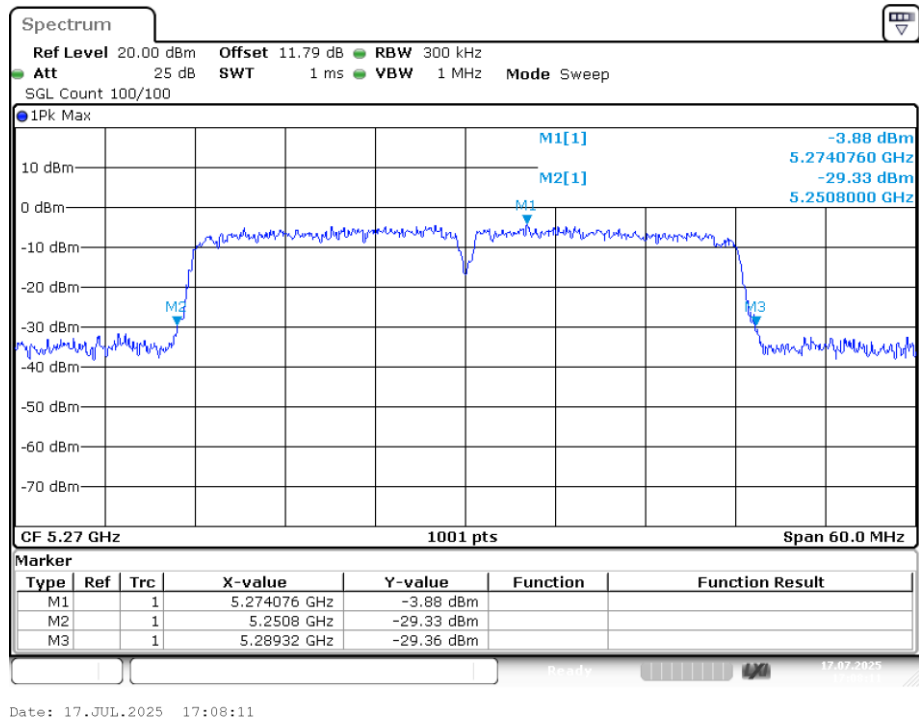


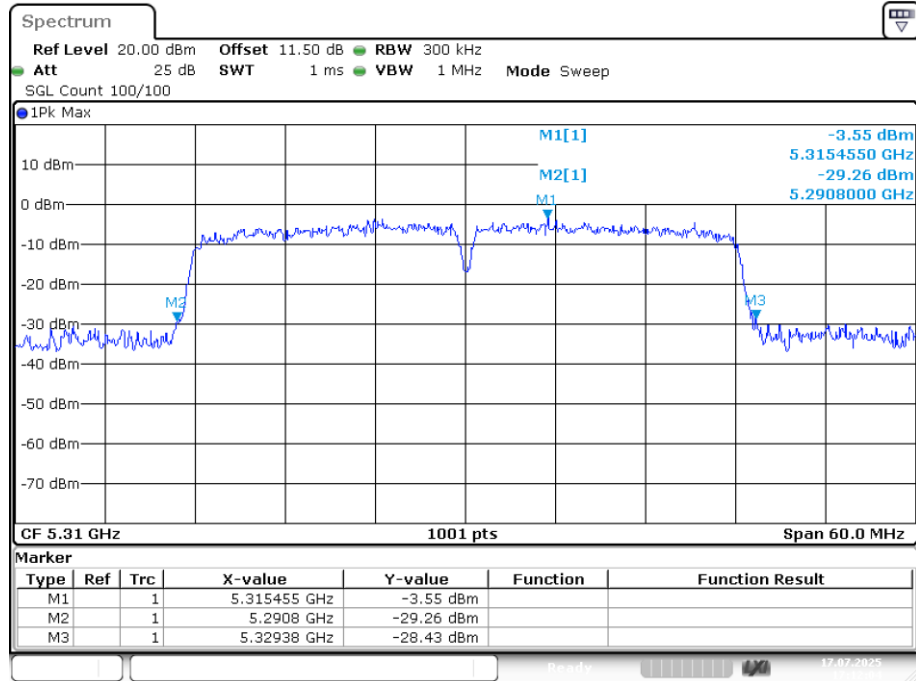
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-26dB Bandwidth NVNT ac20 5320MHz Ant1

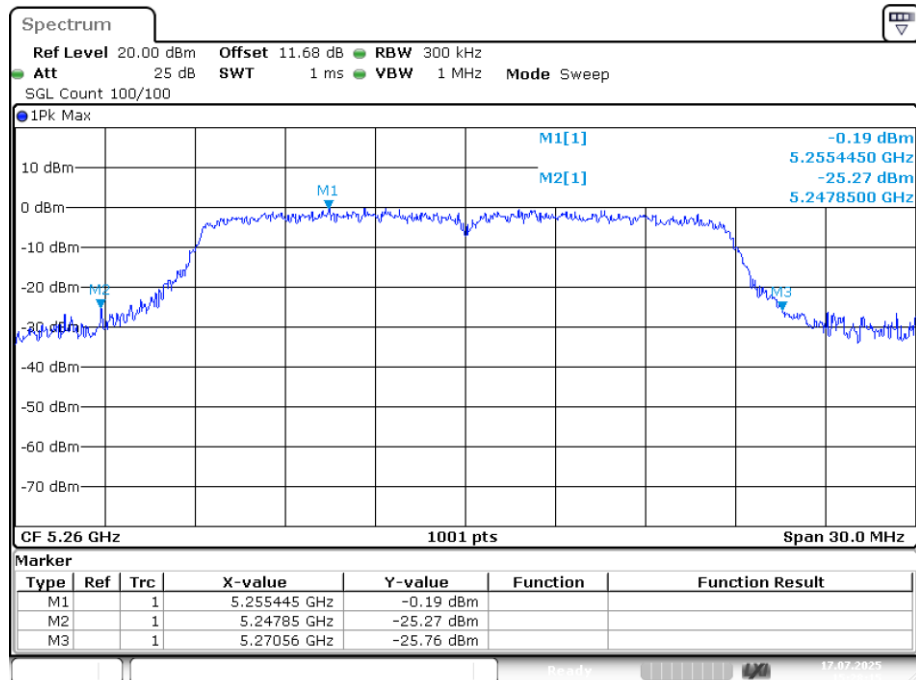


-26dB Bandwidth NVNT ac40 5270MHz Ant1



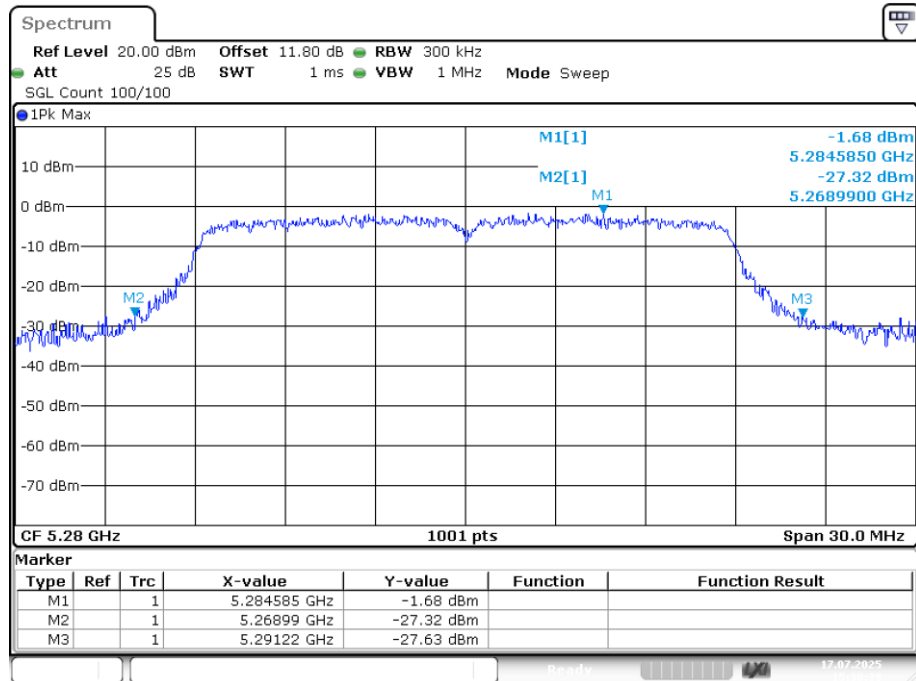
-26dB Bandwidth NVNT ac40 5310MHz Ant1

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-26dB Bandwidth NVNT n20 5260MHz Ant1

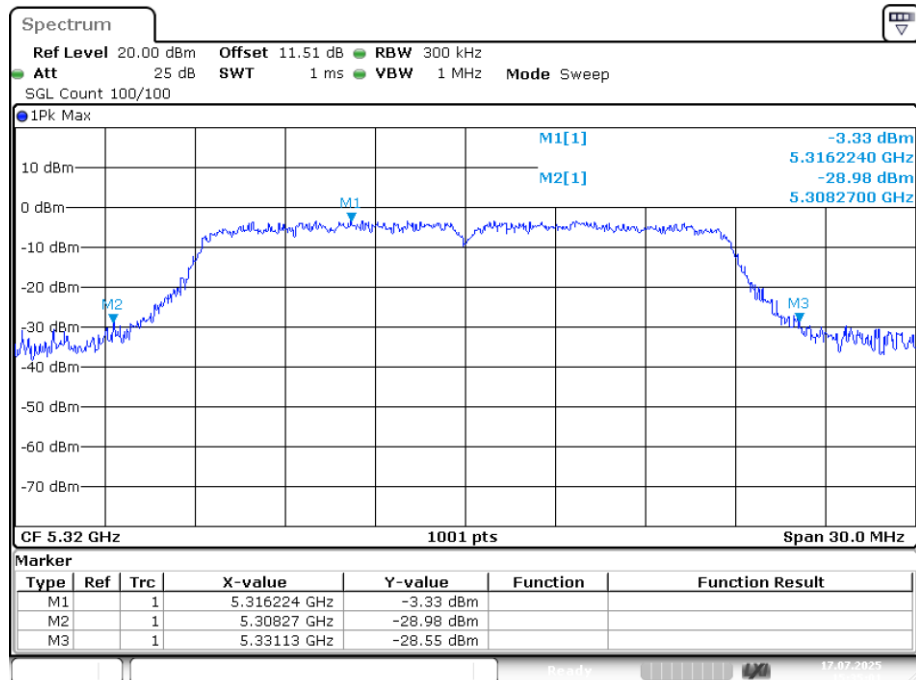
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-26dB Bandwidth NVNT n20 5280MHz Ant1

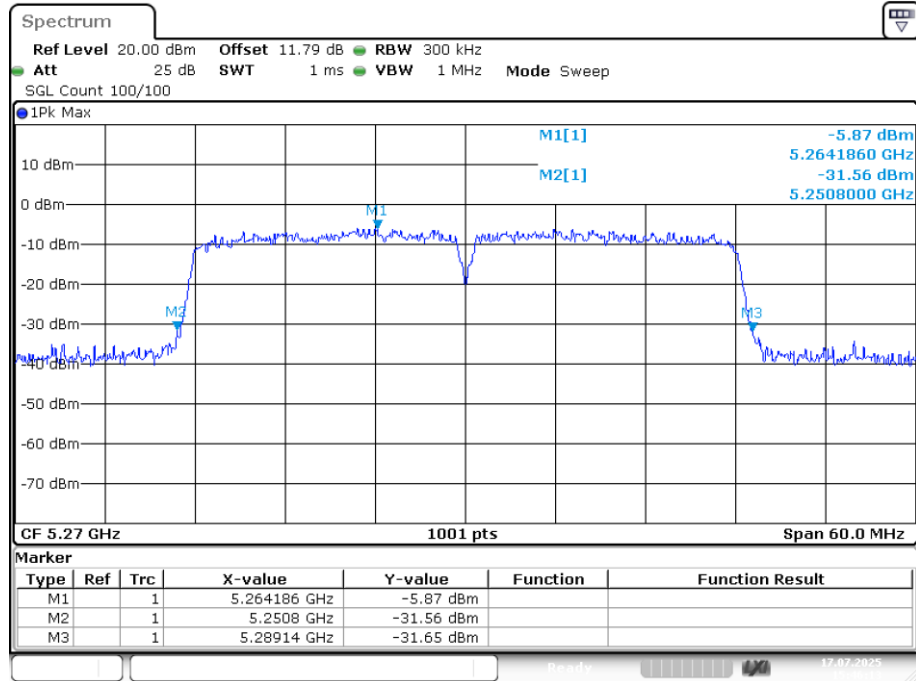


Date: 17.JUL.2025 15:30:39

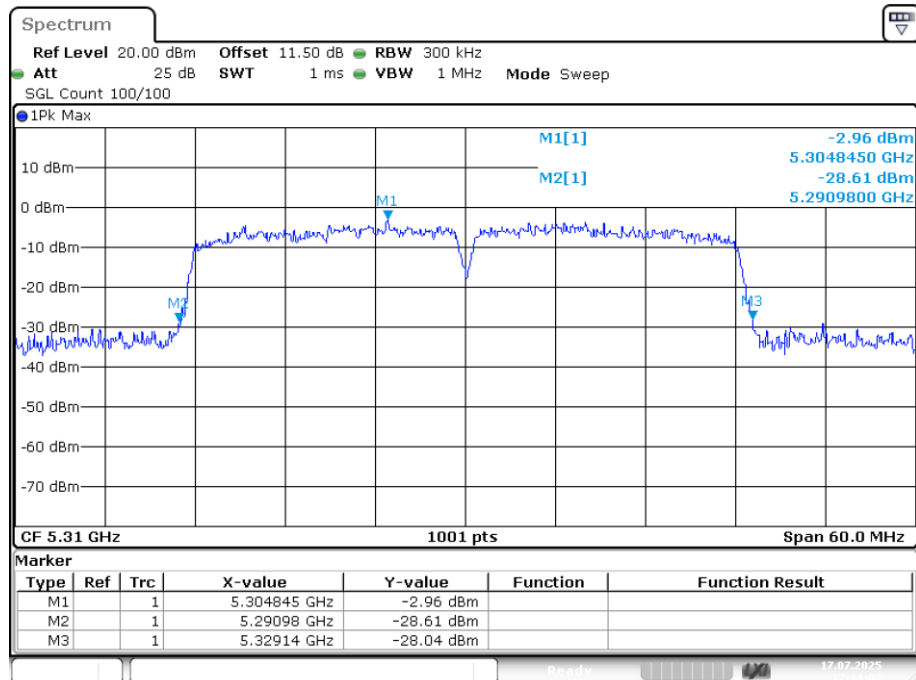
-26dB Bandwidth NVNT n20 5320MHz Ant1



Date: 17.JUL.2025 15:35:01

-26dB Bandwidth NVNT n40 5270MHz Ant1

Date: 17.JUL.2025 15:46:13

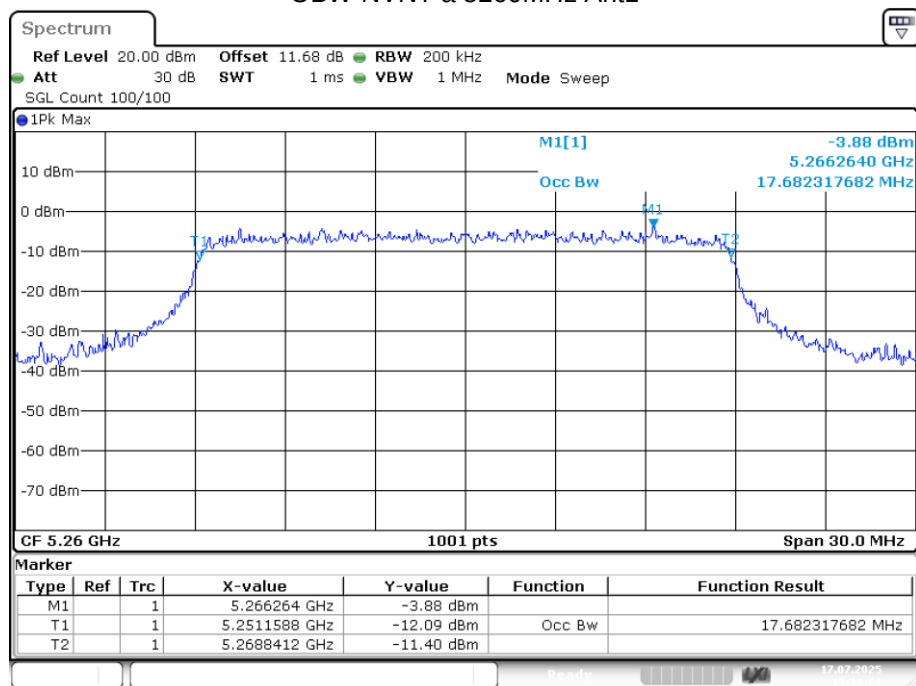
-26dB Bandwidth NVNT n40 5310MHz Ant1

Date: 17.JUL.2025 17:11:03

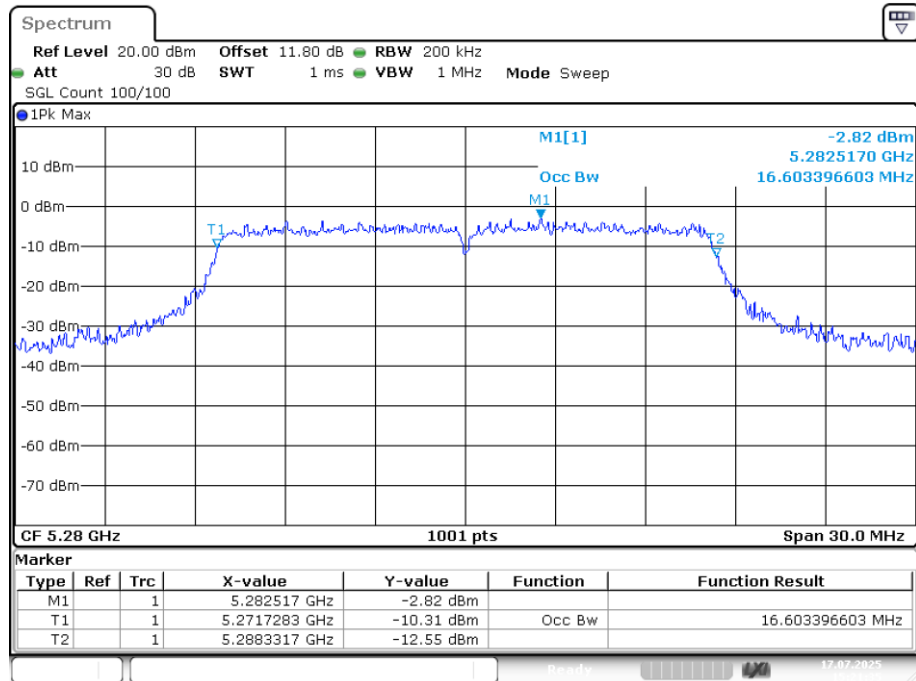
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	17.682
NVNT	a	5280	Ant1	16.603
NVNT	a	5320	Ant1	16.633
NVNT	ac20	5260	Ant1	17.682
NVNT	ac20	5280	Ant1	17.682
NVNT	ac20	5320	Ant1	17.652
NVNT	ac40	5270	Ant1	35.964
NVNT	ac40	5310	Ant1	35.964
NVNT	n20	5260	Ant1	17.652
NVNT	n20	5280	Ant1	17.712
NVNT	n20	5320	Ant1	17.652
NVNT	n40	5270	Ant1	35.904
NVNT	n40	5310	Ant1	35.964

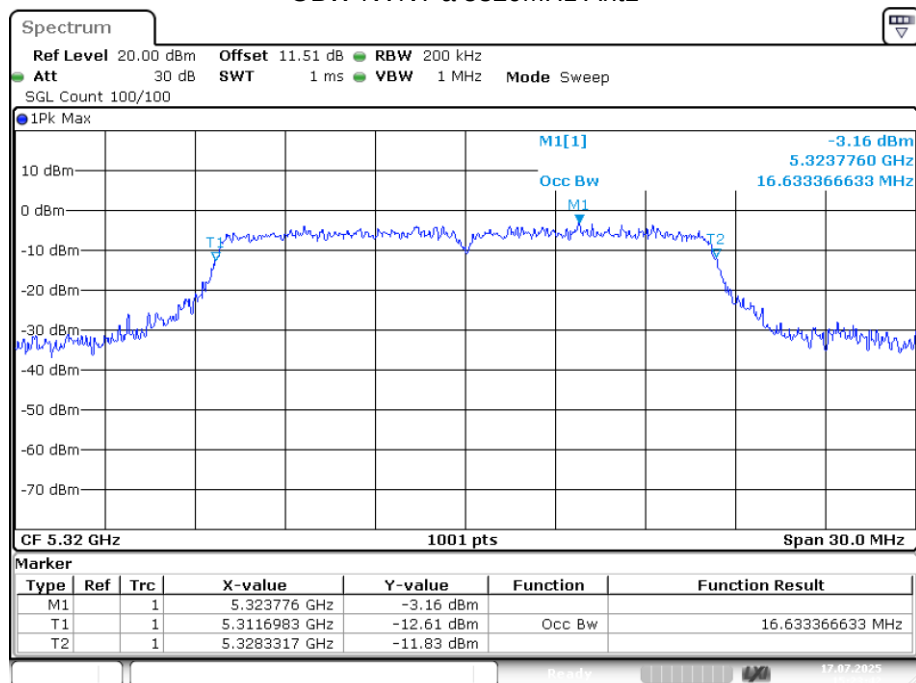
OBW NVNT a 5260MHz Ant1



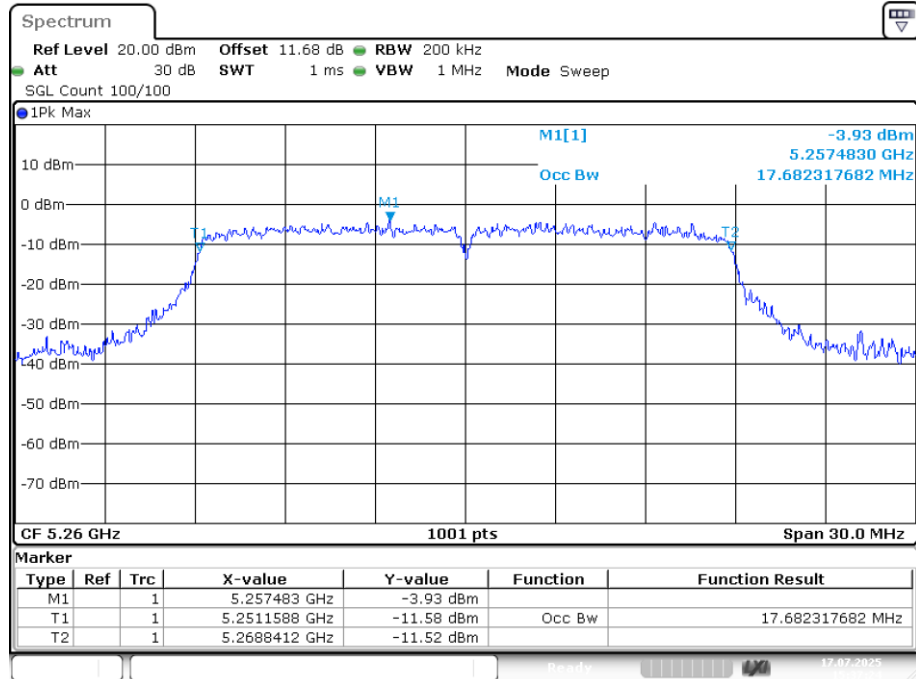
OBW NVNT a 5280MHz Ant1



OBW NVNT a 5320MHz Ant1

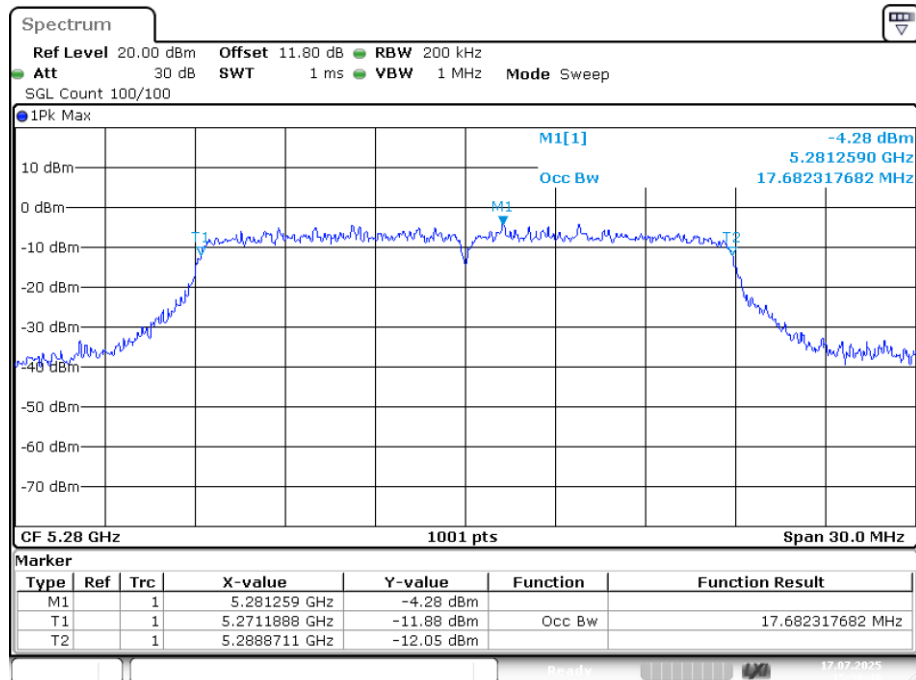


OBW NVNT ac20 5260MHz Ant1



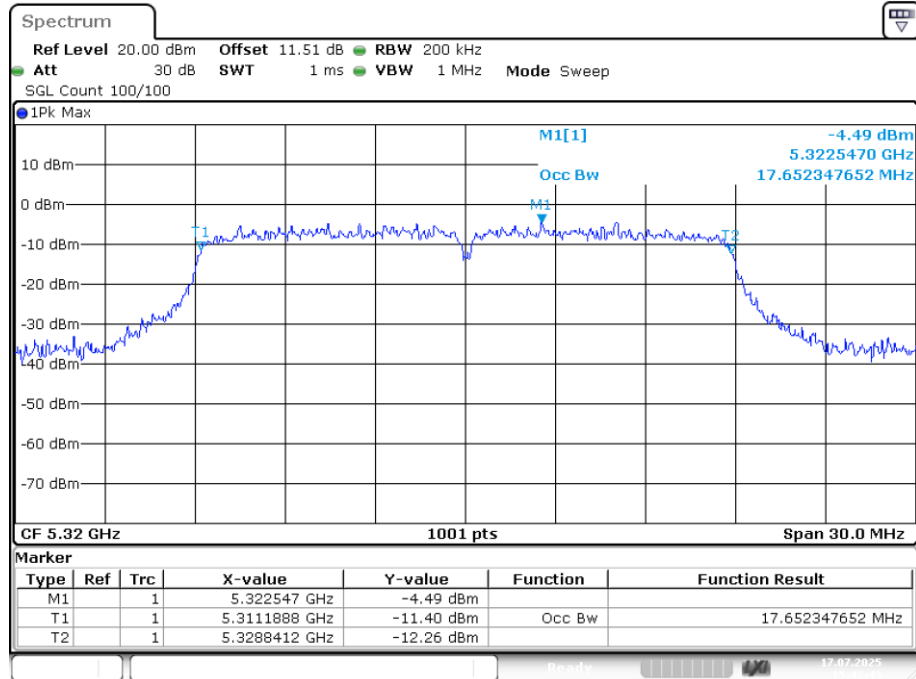
Date: 17.JUL.2025 15:37:23

OBW NVNT ac20 5280MHz Ant1



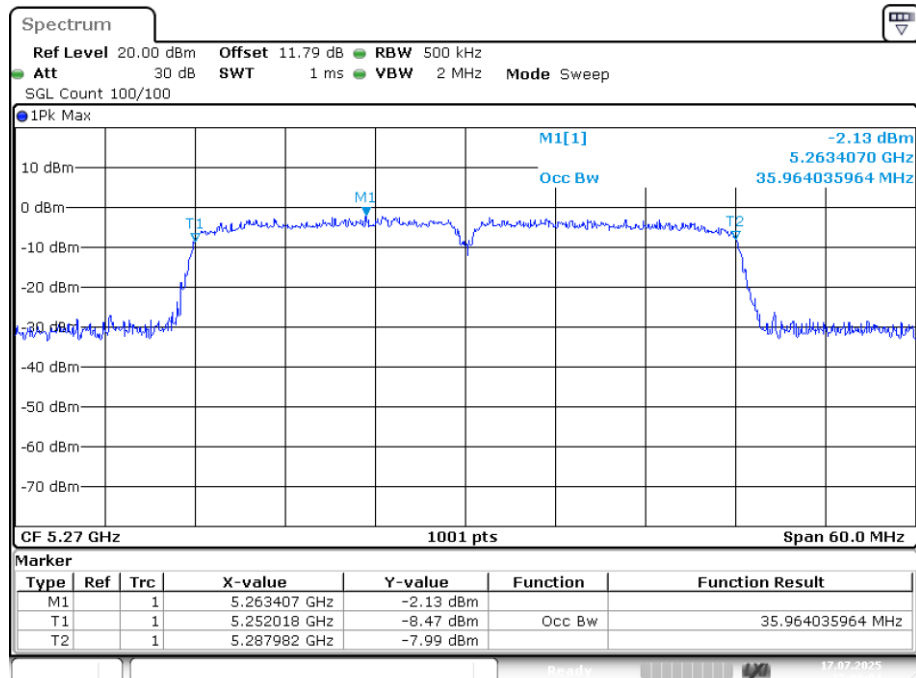
Date: 17.JUL.2025 15:39:40

OBW NVNT ac20 5320MHz Ant1



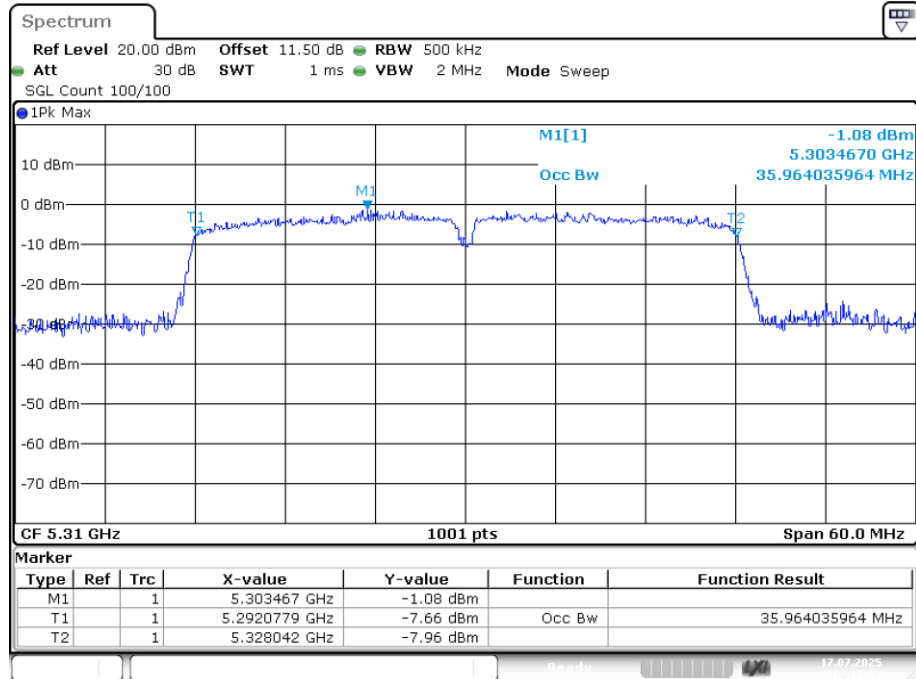
Date: 17.JUL.2025 15:42:43

OBW NVNT ac40 5270MHz Ant1

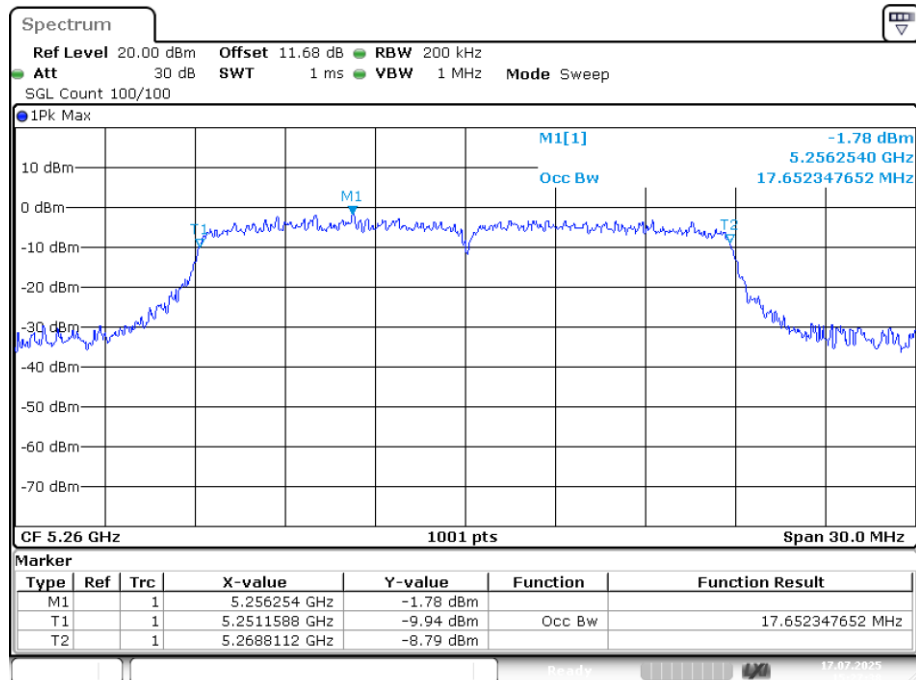


Date: 17.JUL.2025 17:08:04

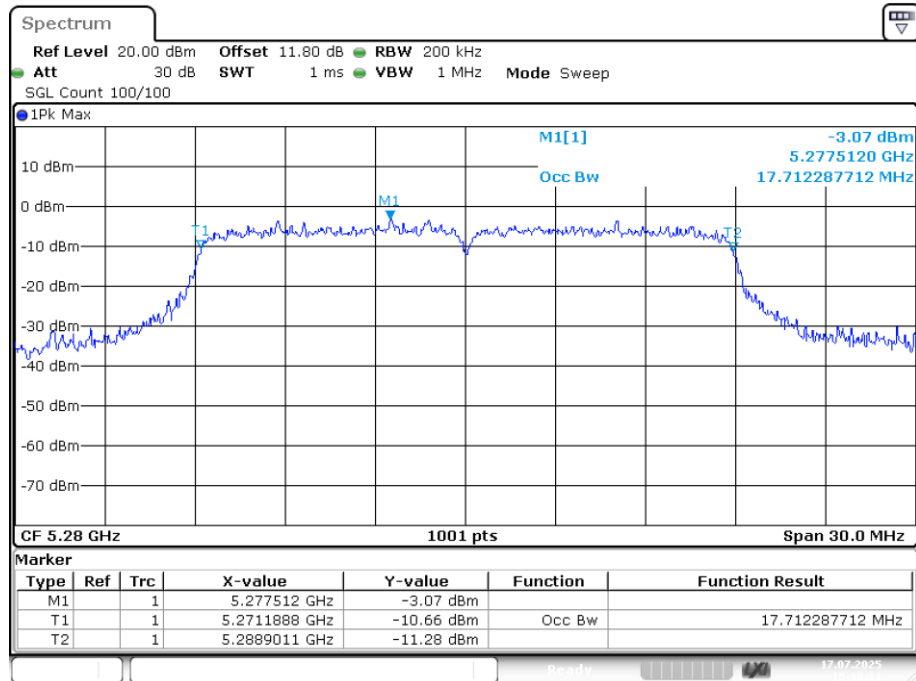
OBW NVNT ac40 5310MHz Ant1



OBW NVNT n20 5260MHz Ant1

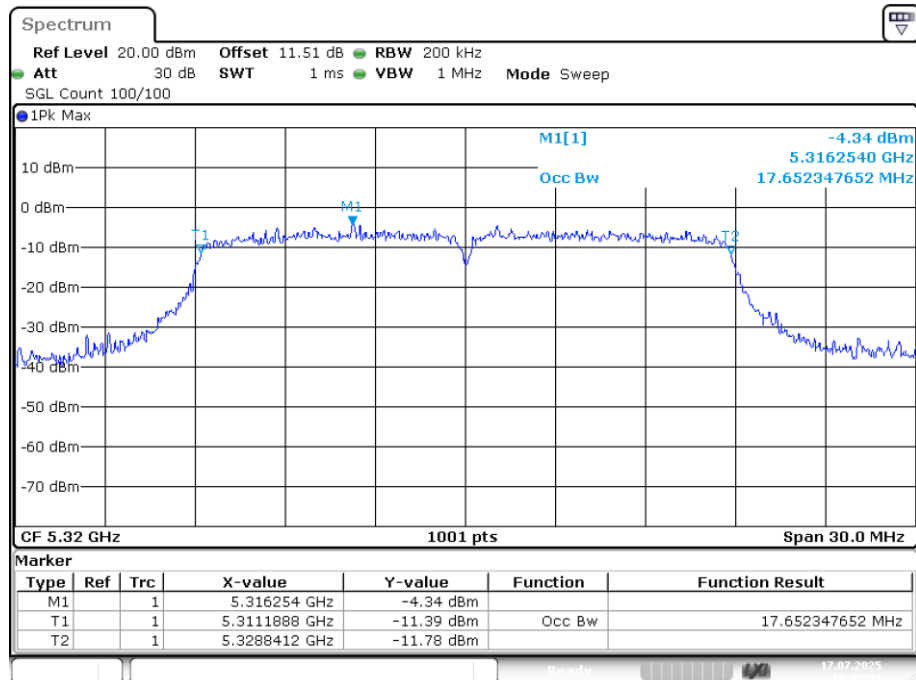


OBW NVNT n20 5280MHz Ant1



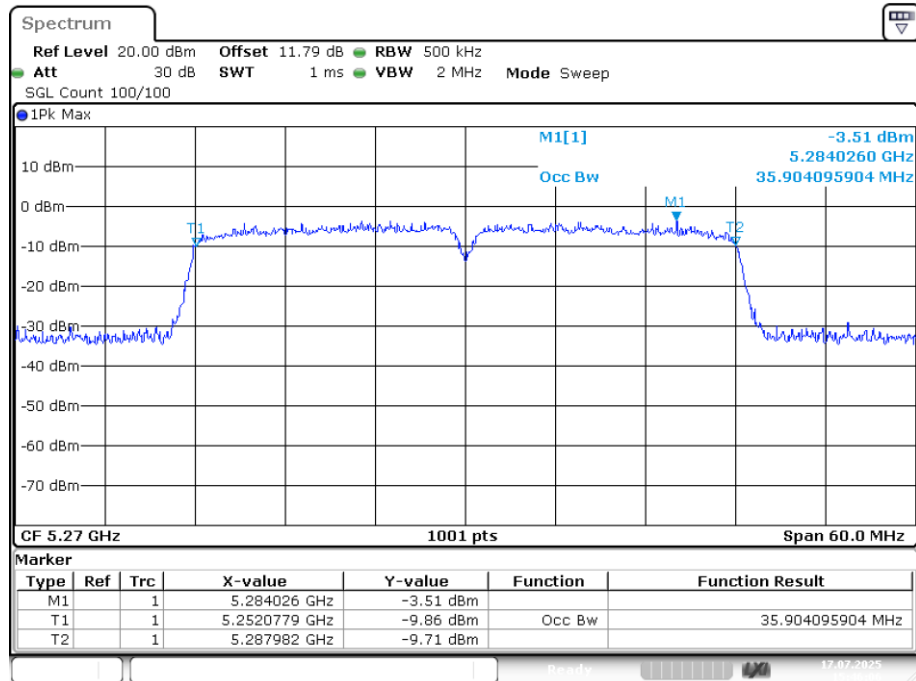
Date: 17.JUL.2025 15:30:31

OBW NVNT n20 5320MHz Ant1



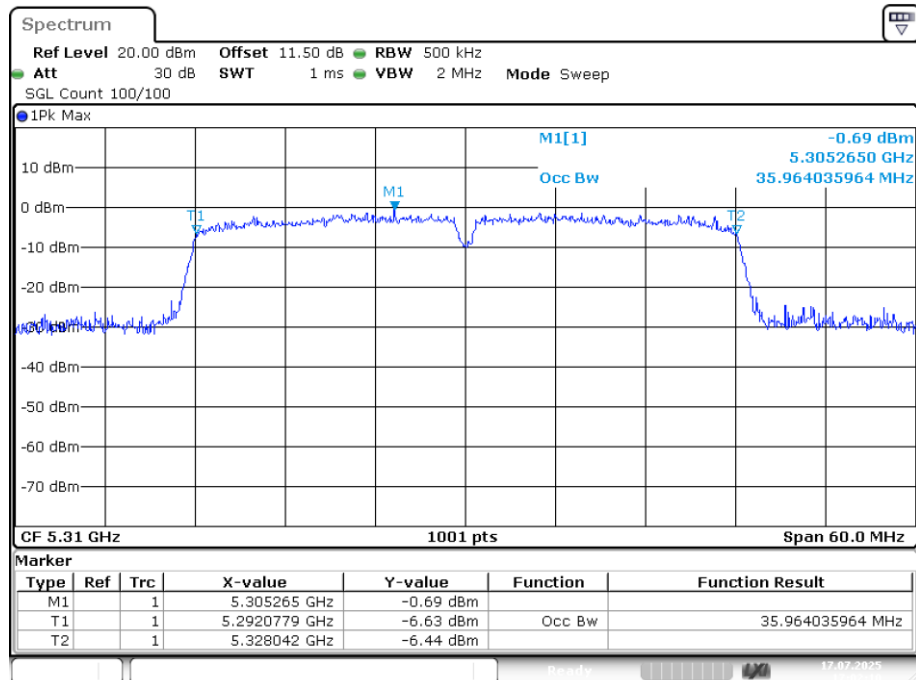
Date: 17.JUL.2025 15:34:52

OBW NVNT n40 5270MHz Ant1



Date: 17.JUL.2025 15:46:06

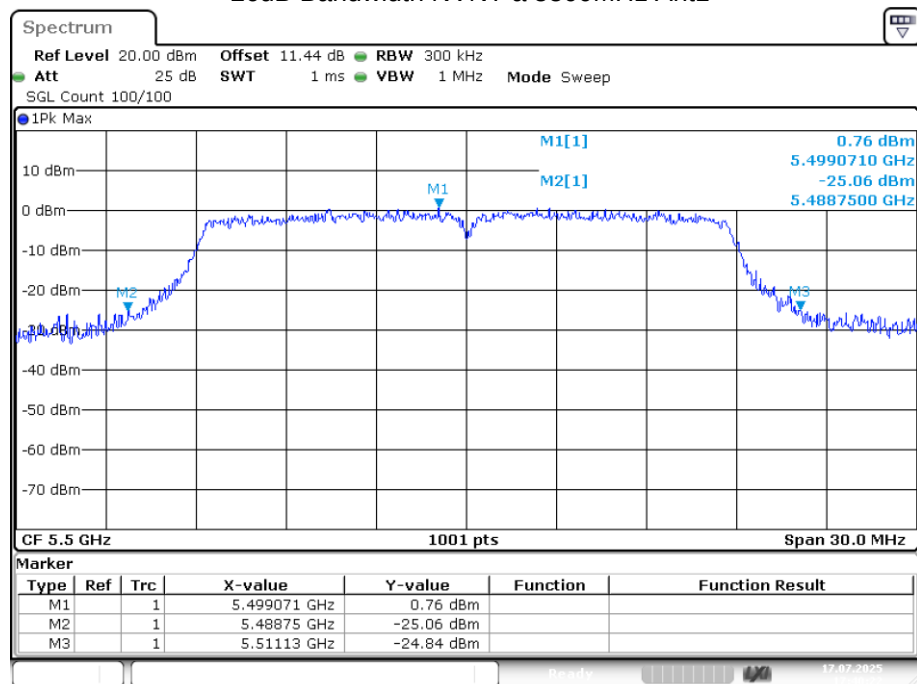
OBW NVNT n40 5310MHz Ant1



Date: 17.JUL.2025 17:02:10

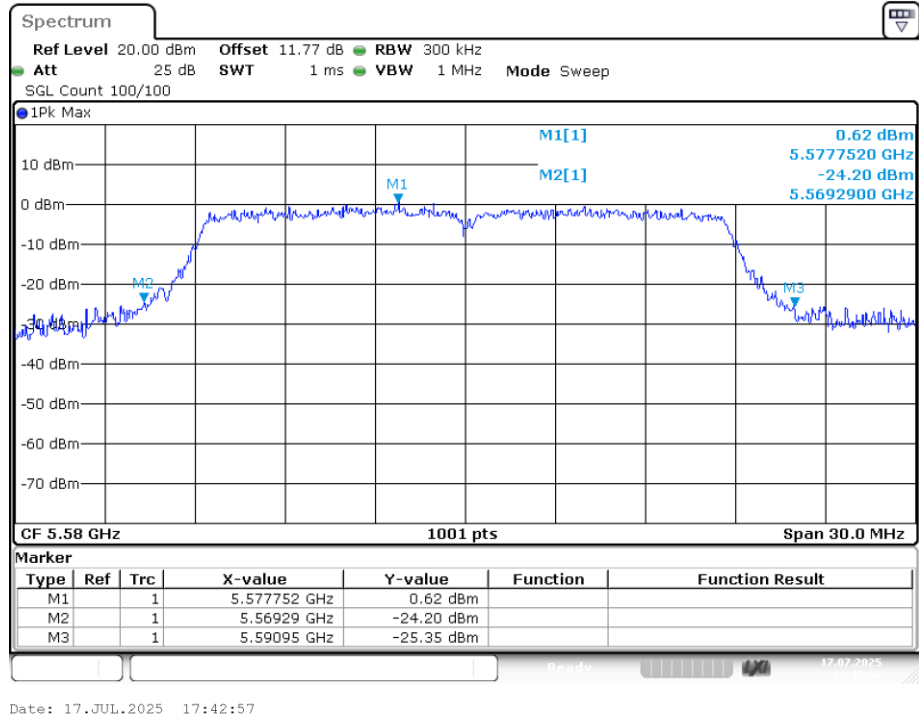
Band 3 (5470-5725 MHz):**-26dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	22.38	N/A	Pass
NVNT	a	5580	Ant1	21.66	N/A	Pass
NVNT	a	5700	Ant1	22.44	N/A	Pass
NVNT	ac20	5500	Ant1	22.47	N/A	Pass
NVNT	ac20	5580	Ant1	22.32	N/A	Pass
NVNT	ac20	5700	Ant1	21.78	N/A	Pass
NVNT	ac40	5510	Ant1	38.34	N/A	Pass
NVNT	ac40	5670	Ant1	38.04	N/A	Pass
NVNT	n20	5500	Ant1	26.61	N/A	Pass
NVNT	n20	5580	Ant1	20.97	N/A	Pass
NVNT	n20	5700	Ant1	22.56	N/A	Pass
NVNT	n40	5510	Ant1	38.1	N/A	Pass
NVNT	n40	5670	Ant1	38.22	N/A	Pass

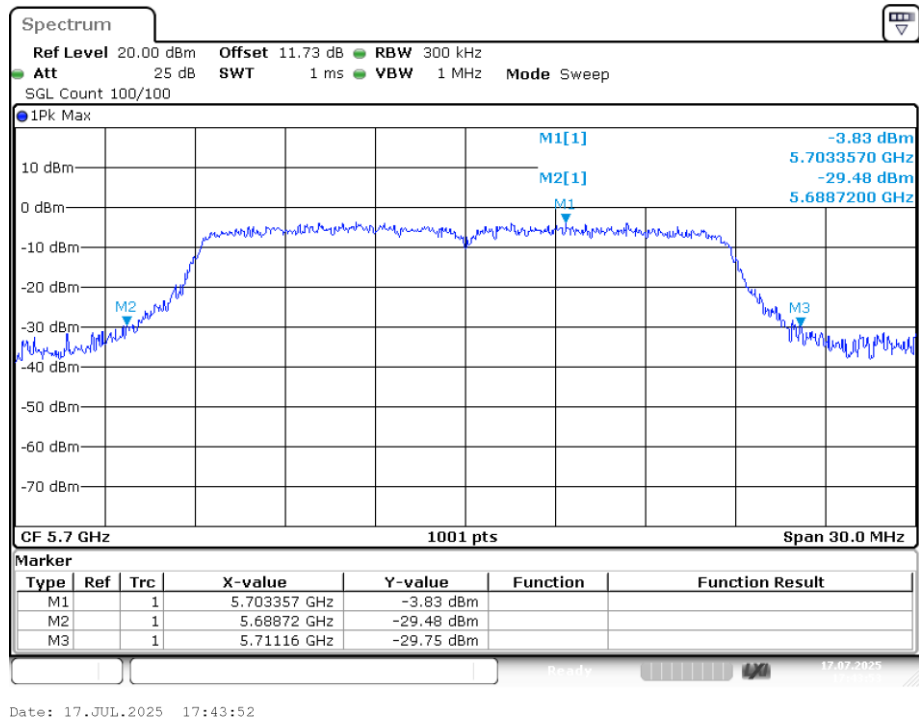
-26dB Bandwidth NVNT a 5500MHz Ant1

Date: 17.JUL.2025 17:40:22

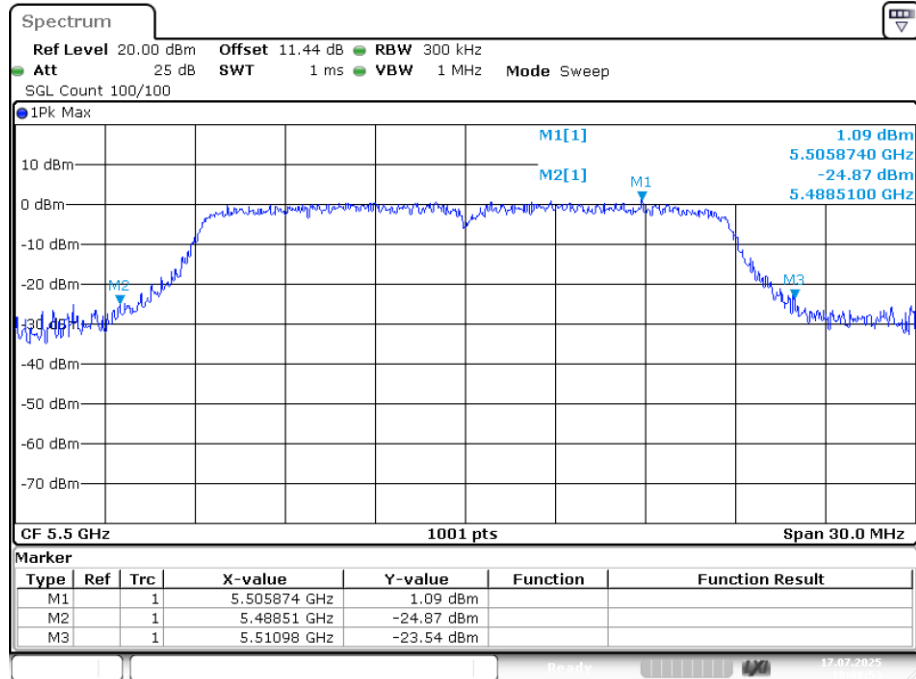
-26dB Bandwidth NVNT a 5580MHz Ant1



-26dB Bandwidth NVNT a 5700MHz Ant1

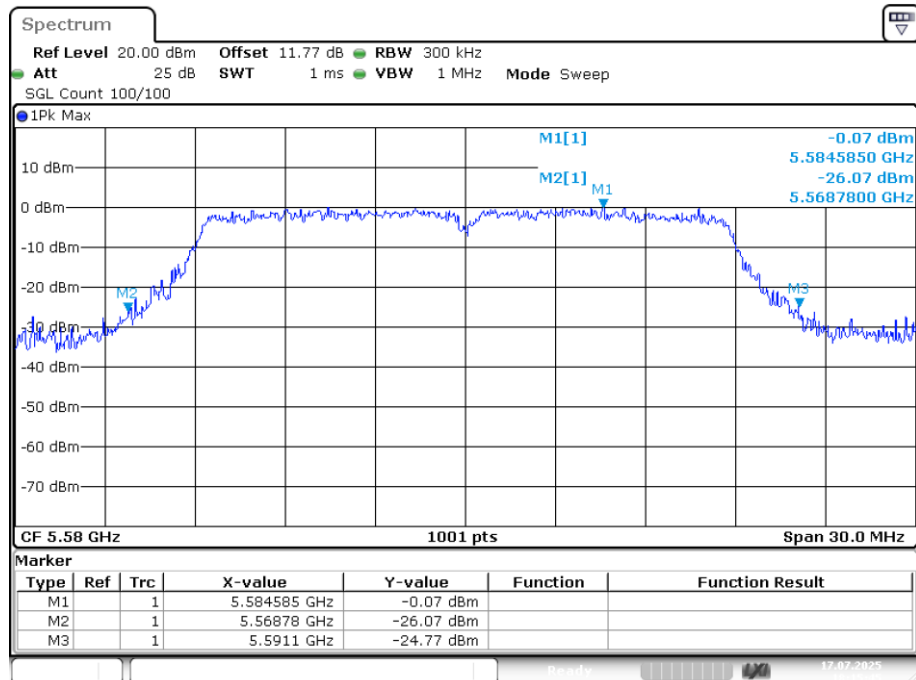


-26dB Bandwidth NVNT ac20 5500MHz Ant1



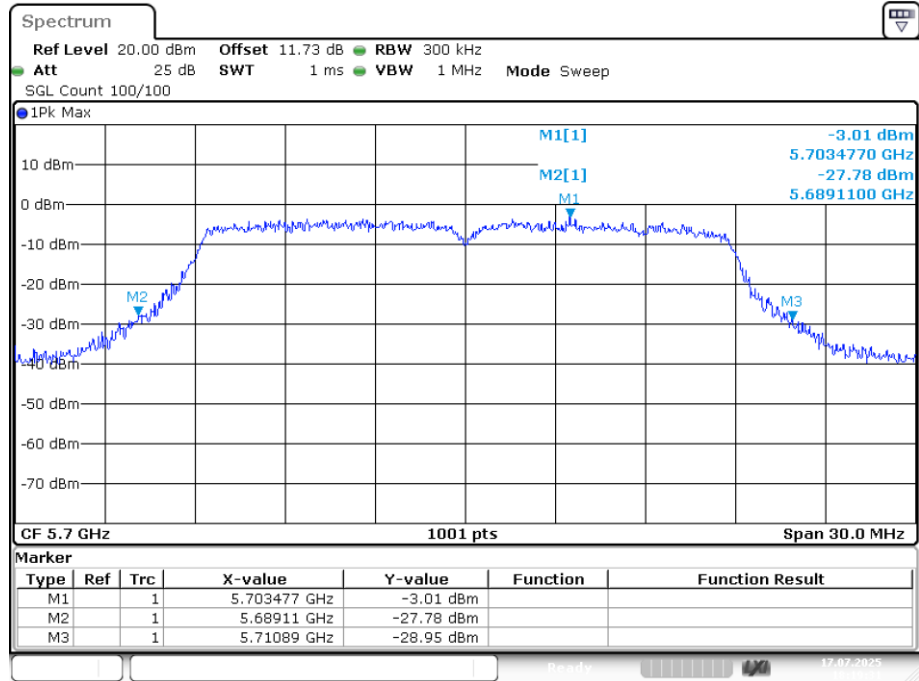
Date: 17.JUL.2025 18:08:52

-26dB Bandwidth NVNT ac20 5580MHz Ant1



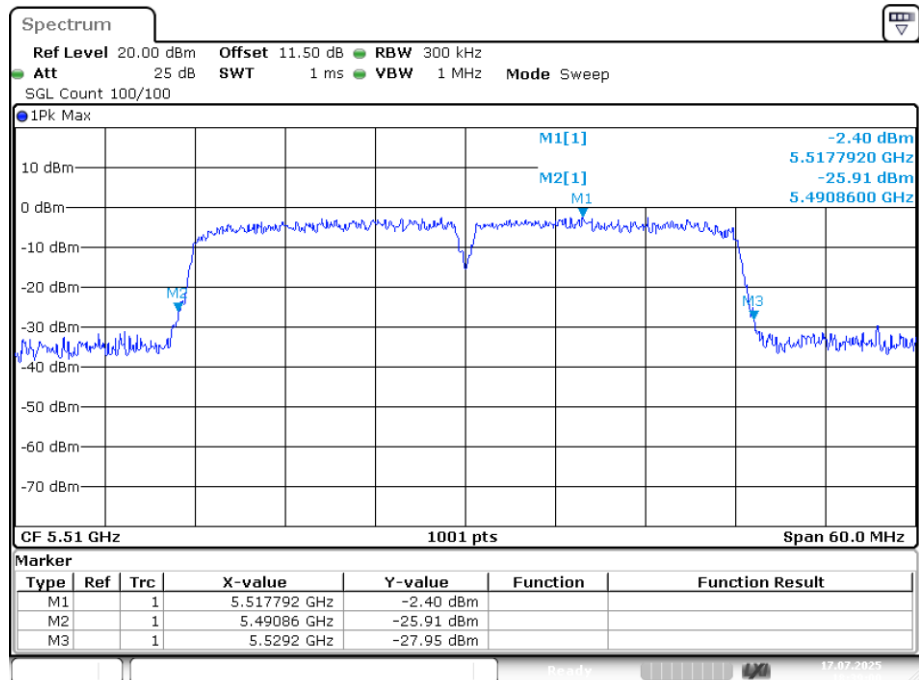
Date: 17.JUL.2025 18:15:45

-26dB Bandwidth NVNT ac20 5700MHz Ant1



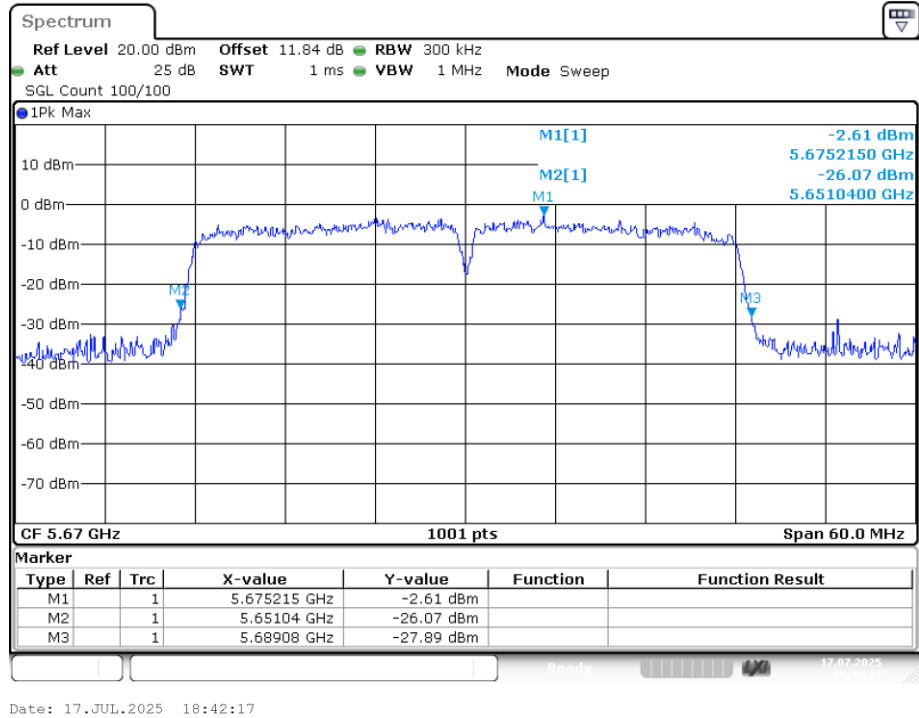
Date: 17.JUL.2025 18:19:31

-26dB Bandwidth NVNT ac40 5510MHz Ant1

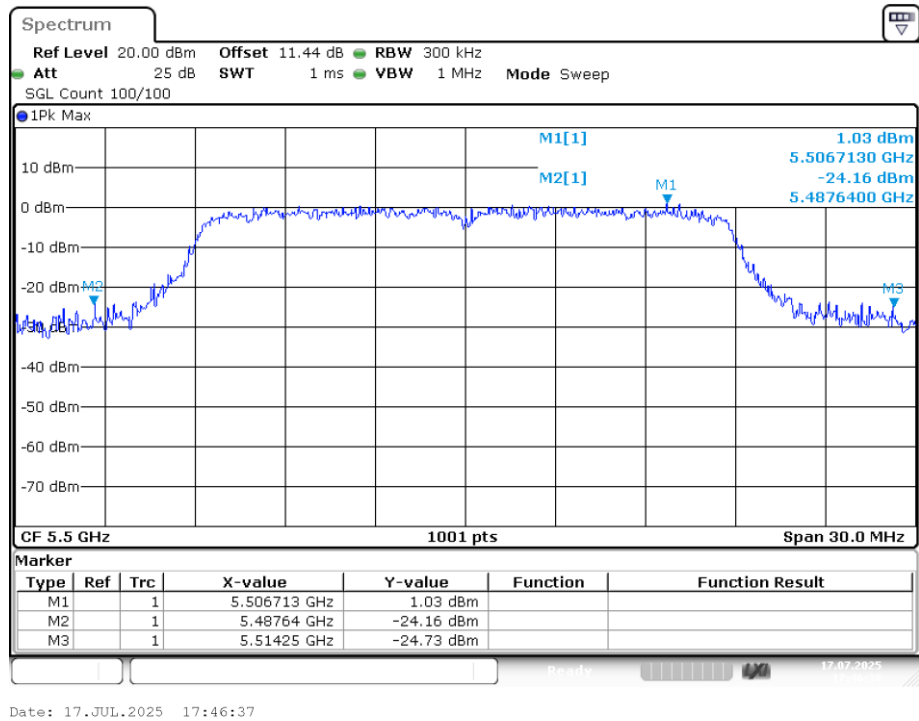


Date: 17.JUL.2025 18:38:59

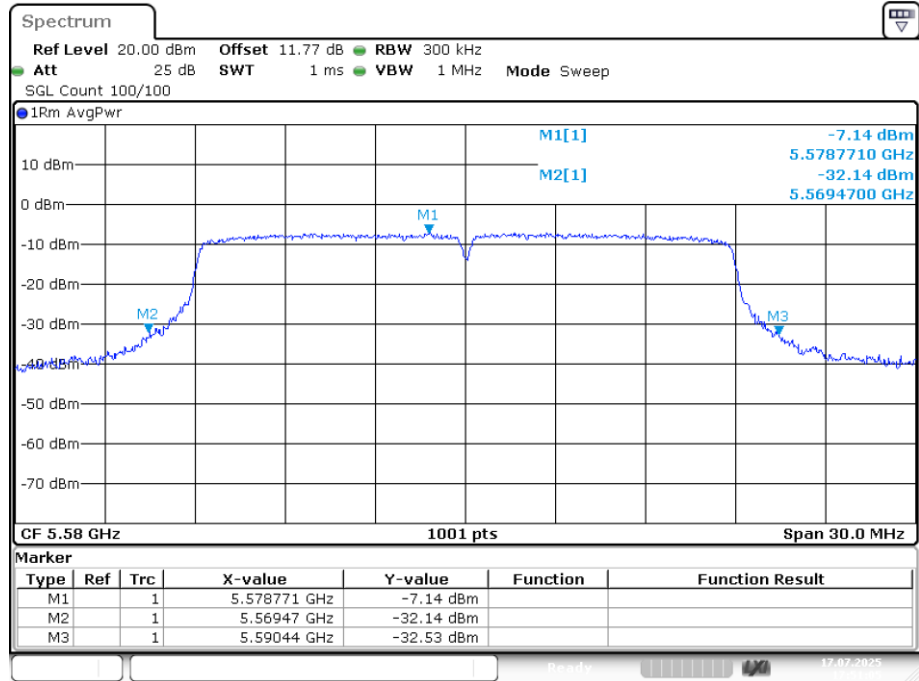
-26dB Bandwidth NVNT ac40 5670MHz Ant1



-26dB Bandwidth NVNT n20 5500MHz Ant1

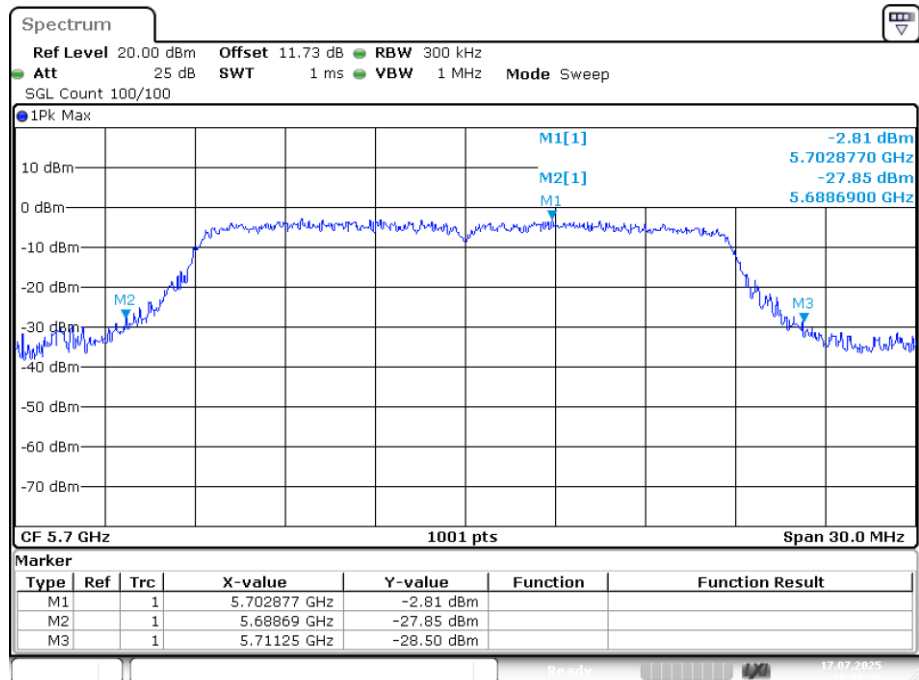


-26dB Bandwidth NVNT n20 5580MHz Ant1



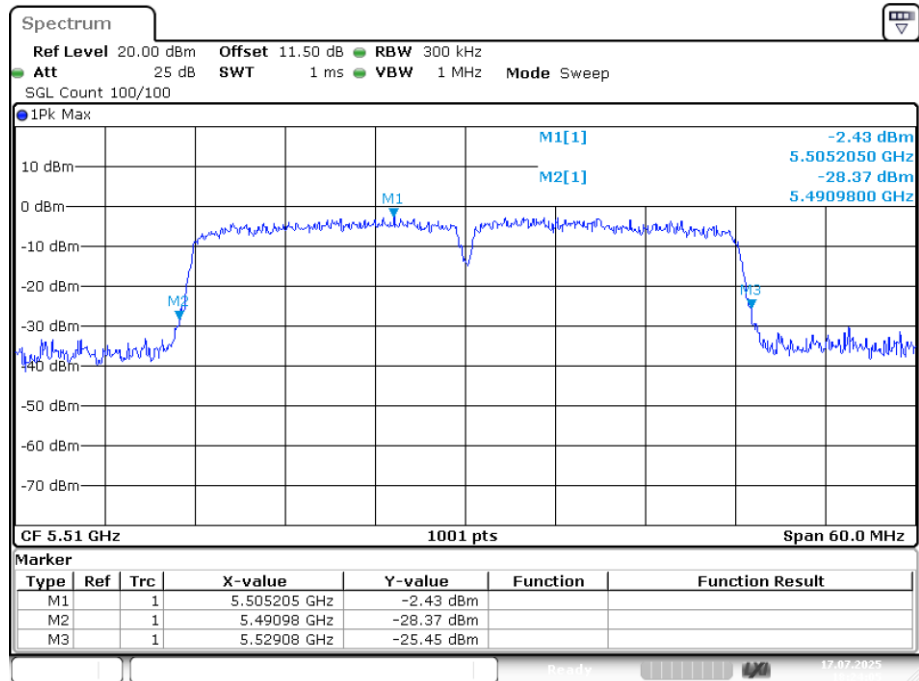
Date: 17.JUL.2025 17:51:06

-26dB Bandwidth NVNT n20 5700MHz Ant1



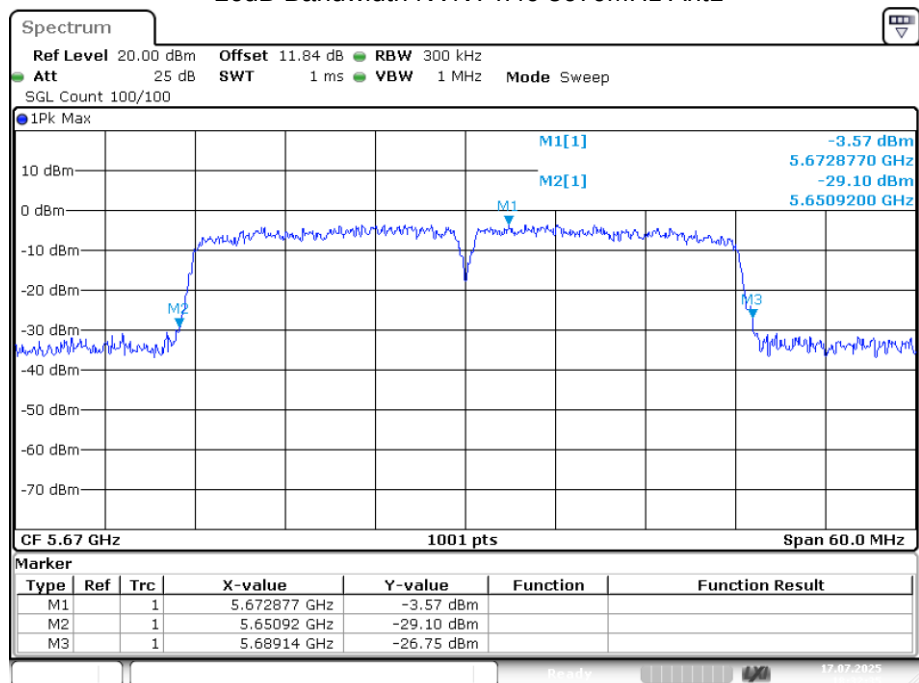
Date: 17.JUL.2025 17:56:25

-26dB Bandwidth NVNT n40 5510MHz Ant1



Date: 17.JUL.2025 18:24:05

-26dB Bandwidth NVNT n40 5670MHz Ant1

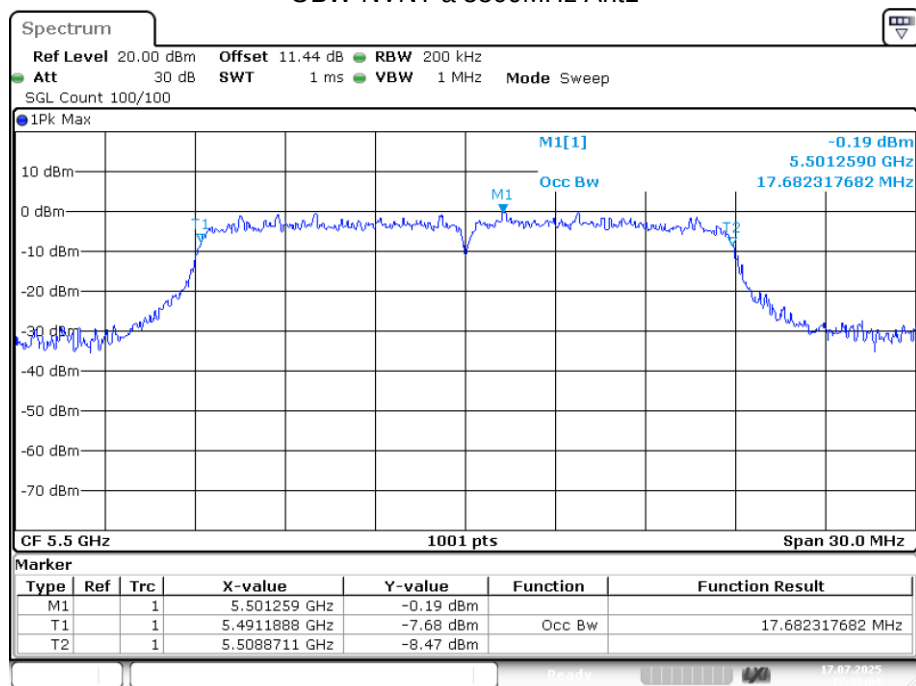


Date: 17.JUL.2025 18:32:34

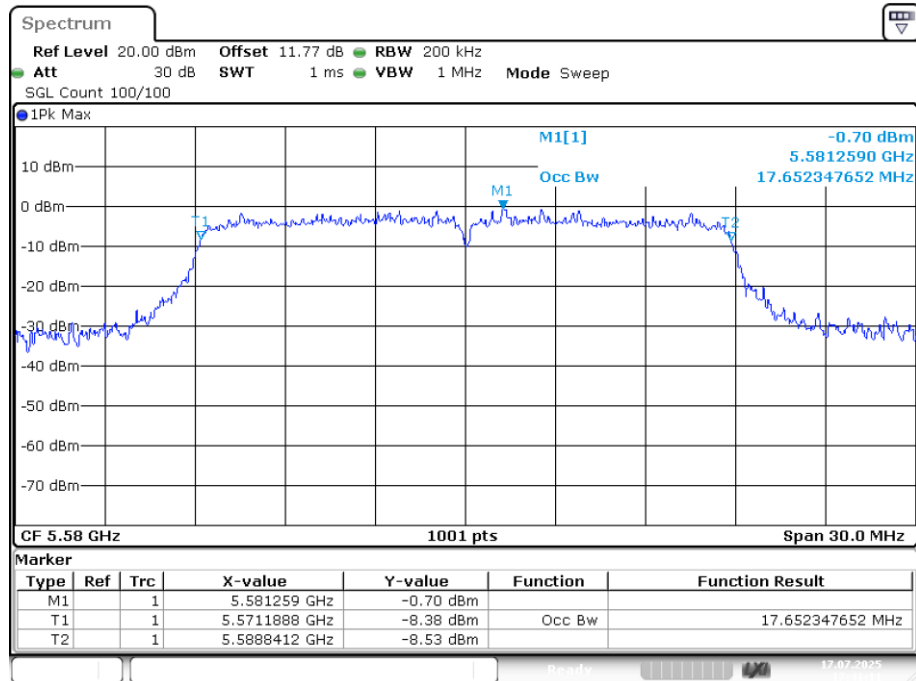
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	17.682
NVNT	a	5580	Ant1	17.652
NVNT	a	5700	Ant1	17.712
NVNT	ac20	5500	Ant1	17.712
NVNT	ac20	5580	Ant1	17.652
NVNT	ac20	5700	Ant1	17.742
NVNT	ac40	5510	Ant1	35.844
NVNT	ac40	5670	Ant1	35.844
NVNT	n20	5500	Ant1	17.742
NVNT	n20	5580	Ant1	17.712
NVNT	n20	5700	Ant1	17.712
NVNT	n40	5510	Ant1	35.844
NVNT	n40	5670	Ant1	35.904

OBW NVNT a 5500MHz Ant1

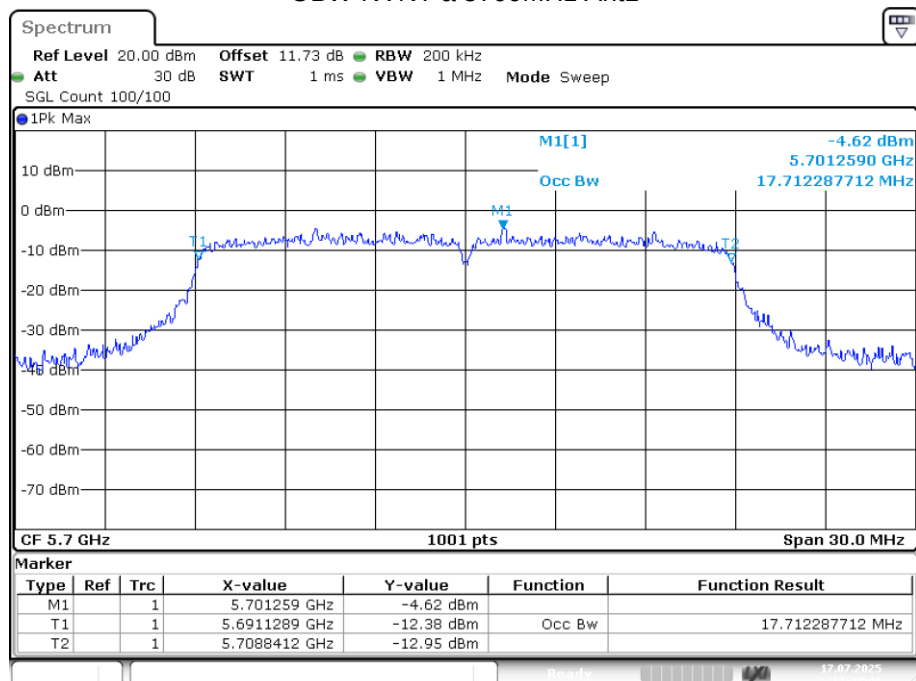


OBW NVNT a 5580MHz Ant1



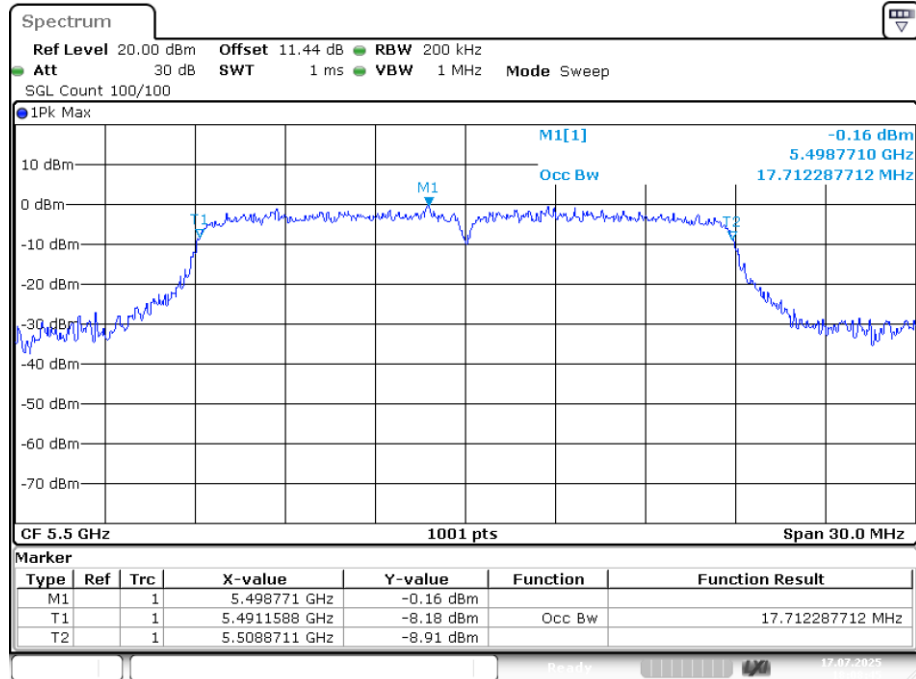
Date: 17.JUL.2025 17:41:11

OBW NVNT a 5700MHz Ant1



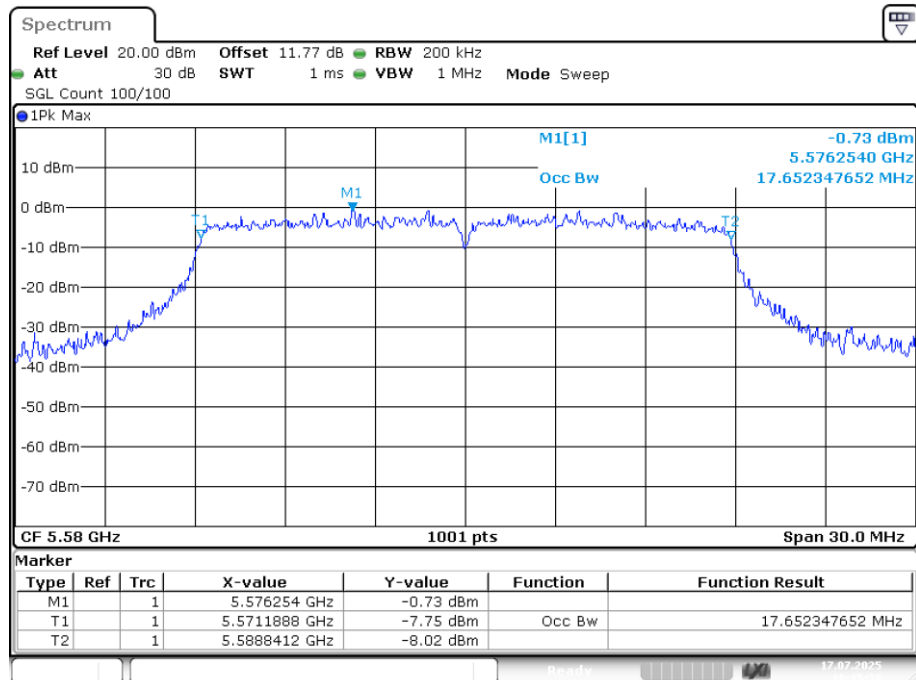
Date: 17.JUL.2025 17:43:46

OBW NVNT ac20 5500MHz Ant1



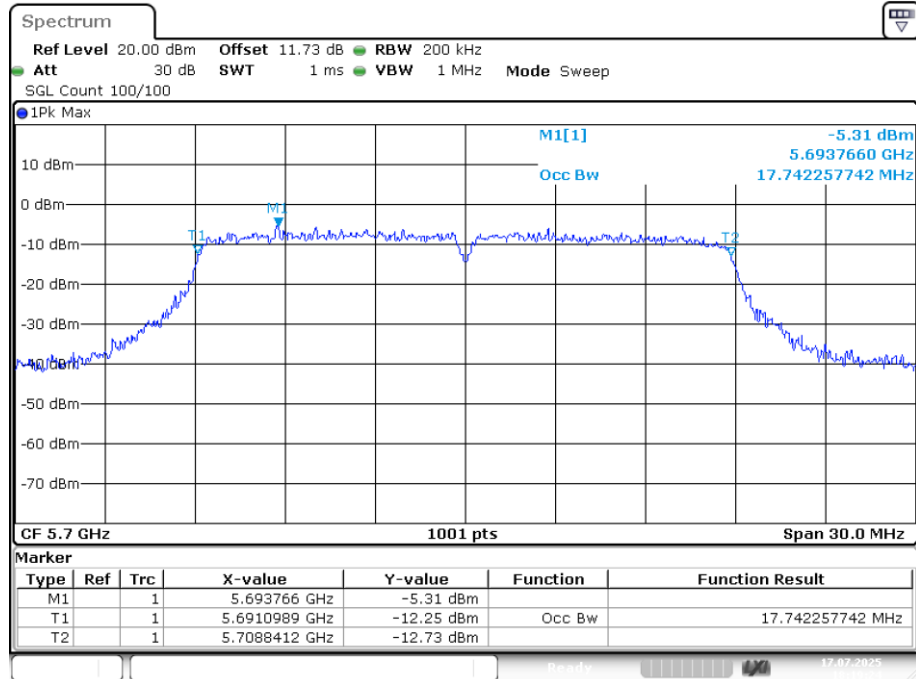
Date: 17.JUL.2025 18:08:45

OBW NVNT ac20 5580MHz Ant1



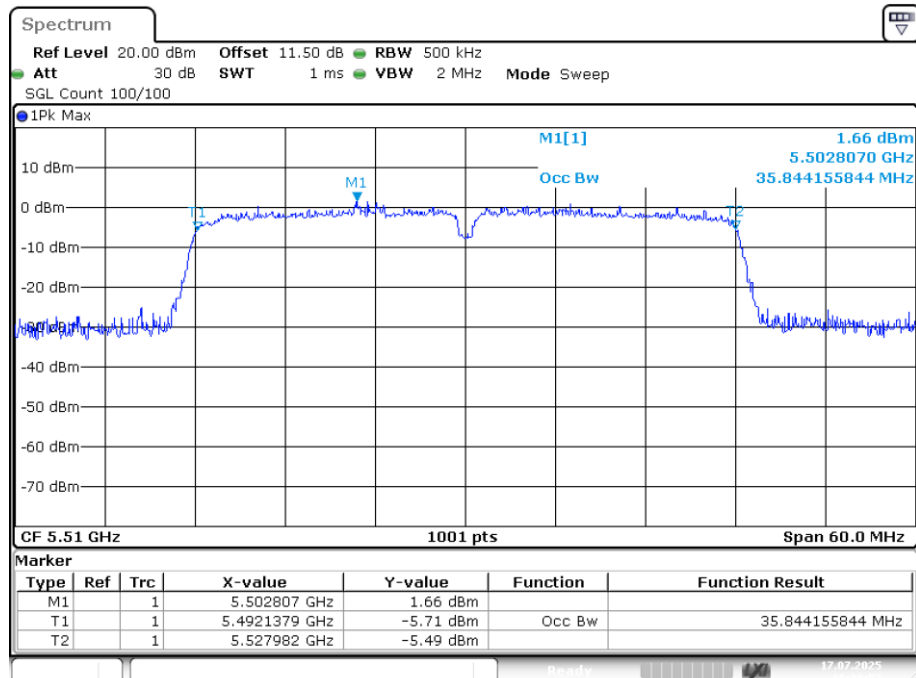
Date: 17.JUL.2025 18:15:38

OBW NVNT ac20 5700MHz Ant1



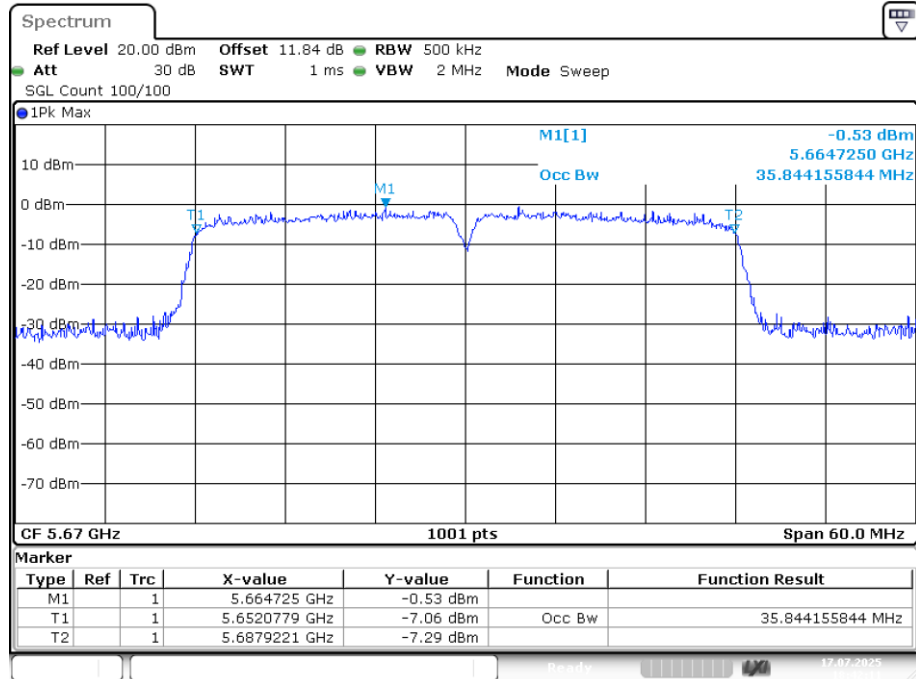
Date: 17.JUL.2025 18:19:24

OBW NVNT ac40 5510MHz Ant1



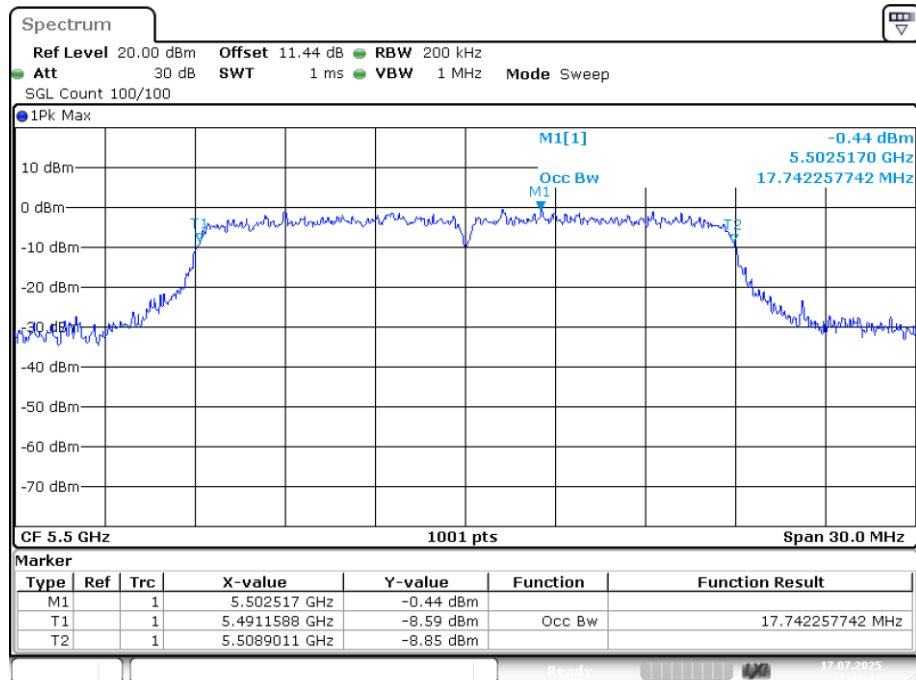
Date: 17.JUL.2025 18:38:52

OBW NVNT ac40 5670MHz Ant1



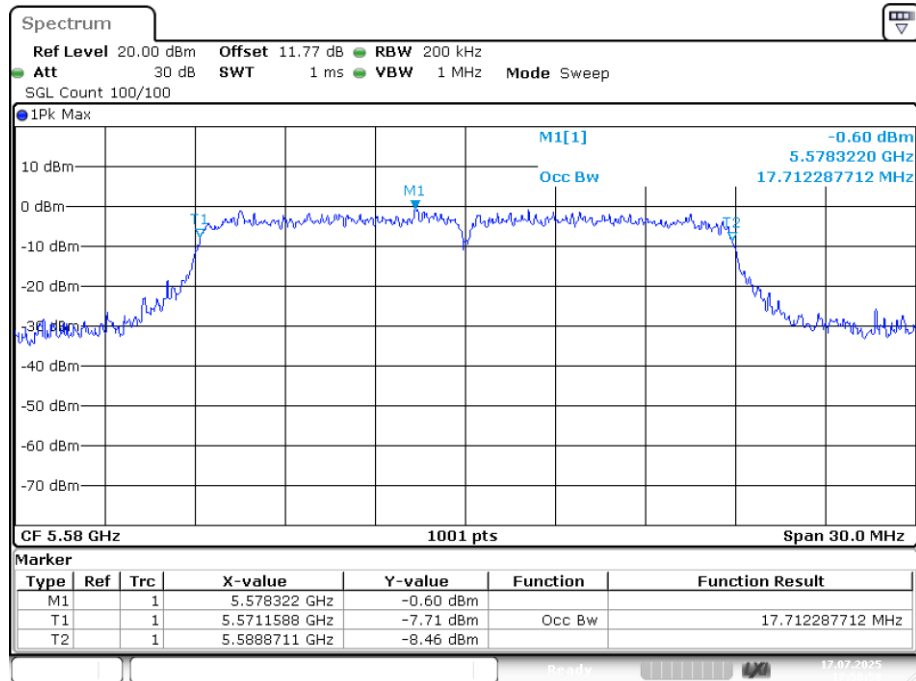
Date: 17.JUL.2025 18:42:10

OBW NVNT n20 5500MHz Ant1



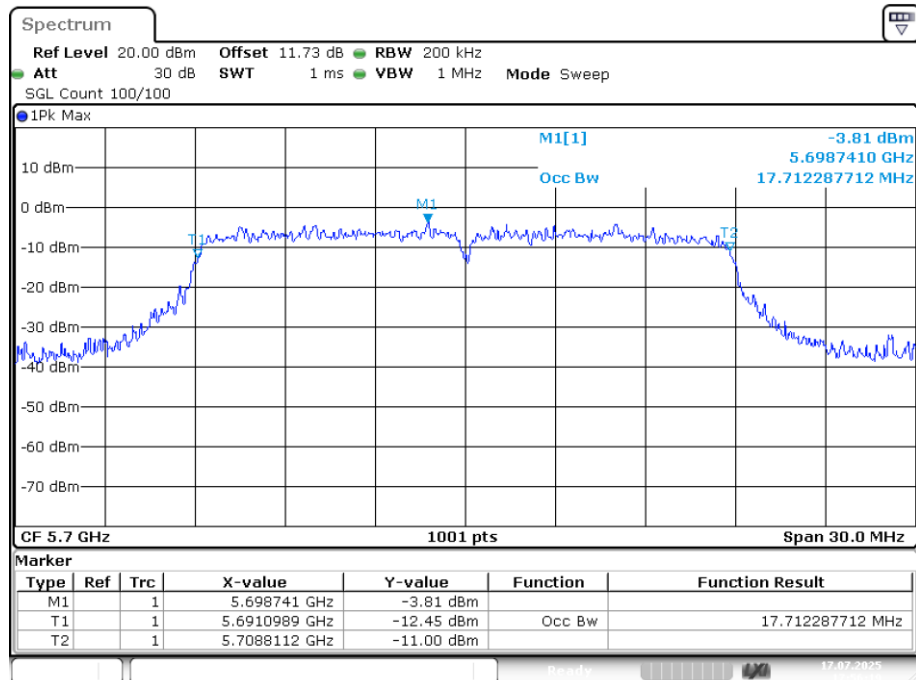
Date: 17.JUL.2025 17:46:30

OBW NVNT n20 5580MHz Ant1



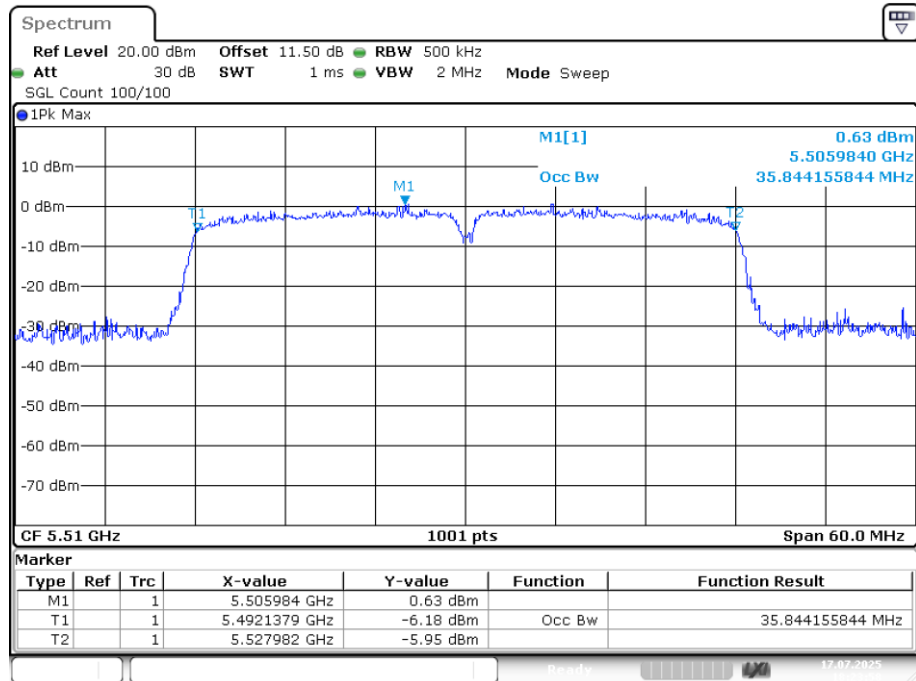
Date: 17.JUL.2025 17:50:59

OBW NVNT n20 5700MHz Ant1



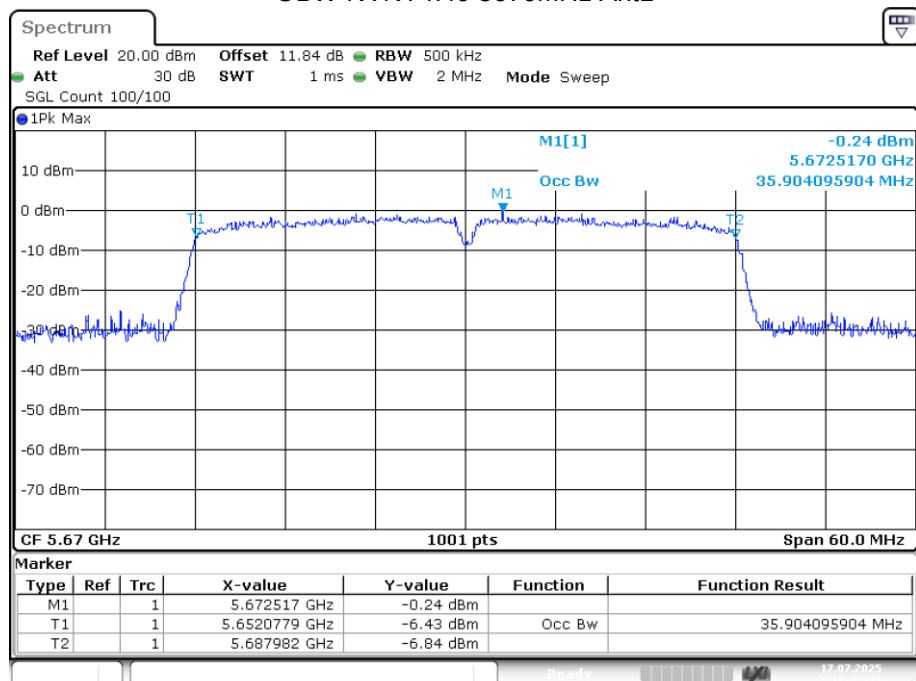
Date: 17.JUL.2025 17:56:18

OBW NVNT n40 5510MHz Ant1



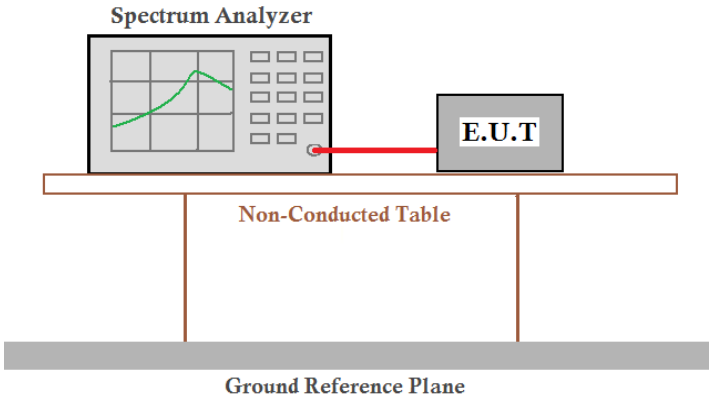
Date: 17.JUL.2025 18:23:58

OBW NVNT n40 5670MHz Ant1



Date: 17.JUL.2025 18:32:27

4.4 Duty Cycle

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	/
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green signal 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 this table is a 'Ground Reference Plane', represented by a thick grey horizontal bar.
Test procedure:	a) A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the on and off times of the transmitted signal. 789033 D02 General UNII Test Procedures New Rules v02r01 Page 3 b) Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak
Test results:	Pass

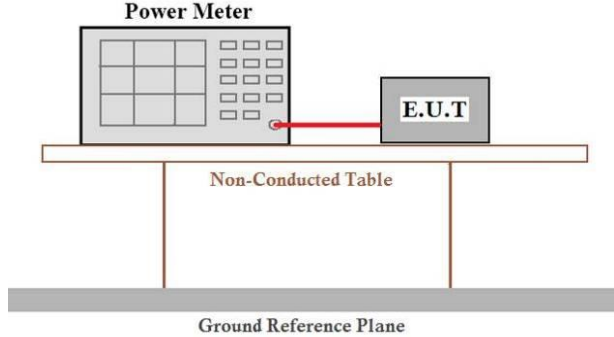
U-NII 2A

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant1	94.05	0.27
NVNT	a	5280	Ant1	94.6	0.24
NVNT	a	5320	Ant1	94.48	0.25
NVNT	ac20	5260	Ant1	94.17	0.26
NVNT	ac20	5280	Ant1	94.12	0.26
NVNT	ac20	5320	Ant1	94.12	0.26
NVNT	ac40	5270	Ant1	88.66	0.52
NVNT	ac40	5310	Ant1	88.63	0.52
NVNT	n20	5260	Ant1	94.12	0.26
NVNT	n20	5280	Ant1	94.12	0.26
NVNT	n20	5320	Ant1	94.12	0.26
NVNT	n40	5270	Ant1	88.66	0.52
NVNT	n40	5310	Ant1	88.82	0.51

U-NII 2C

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5500	Ant1	94.09	0.26
NVNT	a	5580	Ant1	94.24	0.26
NVNT	a	5700	Ant1	94.12	0.26
NVNT	ac20	5500	Ant1	94.12	0.26
NVNT	ac20	5580	Ant1	94.24	0.26
NVNT	ac20	5700	Ant1	94.24	0.26
NVNT	ac40	5510	Ant1	88.84	0.51
NVNT	ac40	5670	Ant1	88.77	0.52
NVNT	n20	5500	Ant1	94.12	0.26
NVNT	n20	5580	Ant1	94.24	0.26
NVNT	n20	5700	Ant1	94.12	0.26
NVNT	n40	5510	Ant1	88.65	0.52
NVNT	n40	5670	Ant1	88.64	0.52

4.5 Maximum Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W.
Test setup:	 The diagram illustrates the test setup. A 'Power Meter' is connected to an 'E.U.T.' (Equipment Under Test) by a red cable. Both components are positioned on a 'Non-Conducted Table'. This table is supported by two vertical legs. Below the table, a 'Ground Reference Plane' is indicated.
Test procedure:	Measurement using an RF average power meter (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).
Test results:	Pass