

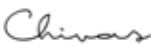
TEST REPORT

Applicant:	Aurodi Corporation
Address of Applicant:	Suite 1100, 7887 E Belleview Ave, Denver, CO 80111, United States
Manufacturer:	Jingrui Inspire Co.,Ltd.
Address of Manufacturer:	RM1306, Block 3 (C-1), Runhui Science Park,18 Shenzhou Rd., Huangpu Dist., Guangzhou, Guangdong Prov., P.R. China, 510663
Product name:	Android Tab Gateway(NA)
Model(s):	VGW12W05-EC25-24G
Rating(s):	INPUT: AC 100-240V, 50/60 Hz, 1.5A OUTPUT: DC 12V 3A
Trademark:	V-MARK
Standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407
FCC ID:	2BBTA-VGW12W0X24G
Data of Receipt:	2025-07-30
Date of Test:	2025-07-30~2026-01-22
Date of Issue:	2026-01-22
Test Result	Pass*

* In the configuration tested, the test item complied with the standards specified above.

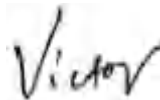
Authorized for issue by:

Test by:

Jan.22, 2026 Chivas Tsang 
Project Engineer

Date Name/Position Signature

Reviewed by:

Jan.22, 2026 Victor Meng 
Project Manager

Date Name/Position Signature

Testing Laboratory information:

Testing Laboratory Name : ITL Co., Ltd
Address : No. 8 Jinqianling Street 5, Huangjiang Town, Dongguan,
Guangdong, 523757 P.R.C.
Testing location : Same as above
Tel : 0086-769-39001678
Fax : 0086-20-62824387
E-mail : itl@i-testlab.com

Possible test case verdicts:

- test case does not apply to the test object... : N/A
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement . : F (Fail)

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report would be invalid test report without all the signatures of testing technician and approver.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

General product information:

This device doesn't support Resource Units characteristic.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.407](#): General technical requirements

[ANSI C63.10:2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB789033 D02 v02r01](#): GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E

[KDB662911 D01 v02r01](#): Multiple Transmitter Output

1.2. Report Version

Revision No.	Date of issue	Description
N/A	/	/

2. TEST DESCRIPTION

Test Item	FCC Rule	Result
Antenna Requirement	15.203	PASS
AC power-line conducted emissions	15.207	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)	PASS
-26dB Bandwidth and 99% Occupied bandwidth	15.407(a)	PASS
-6dB Bandwidth	15.407(a)	PASS
Band Edge	15.407(b)	PASS
Radiated Spurious Emissions	15.209	PASS
Frequency Stability	15.407(g)	PASS
Dynamic Frequency Selection(DFS)	15.407(h)	PASS
Radiated Emissions which fall in the restricted bands	15.209(c)	PASS

Remark: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Aurodi Corporation
Address:	Suite 1100, 7887 E Belleview Ave, Denver, CO 80111, United States
Manufacturer:	Jingrui Inspire Co.,Ltd.
Address:	RM1306, Block 3 (C-1), Runhui Science Park,18 Shenzhou Rd., Huangpu Dist., Guangzhou, Guangdong Prov., P.R. China, 510663

3.2. Product Description

Name of EUT	Android Tab Gateway(NA)		
Trade Mark:	V-MARK		
Model No.:	VGW12W05-EC25-24G		
Listed Model(s):	/		
Power supply:	AC 100-240V, 50/60 Hz, 1.5A		
5G WIFI			
Supported type:	☒ 802.11a	☒ 802.11n(HT20)	☒ 802.11n(HT40)
	☒ 802.11ac(VHT20)	☒ 802.11ac(VHT40)	☒ 802.11ax(HE20)
	☒ 802.11ax(HE40)		
Function:	☐ Outdoor AP	☐ Indoor AP	☐ Fixed P2P
	☒ Client		
DFS type:	☐ master devices	☐ Slave devices with radar detection	☒ Slave devices without radar detection
Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM, 1024QAM		
Operation frequency:	☒ Band I:	5150MHz~5250MHz	
	☒ Band II:	5250MHz~5350MHz	
	☒ Band III:	5470MHz~5725MHz	
	☒ Band IV:	5725MHz~5850MHz	
Supported Bandwidth	20MHz:	802.11n, 802.11a, 802.11ac, 801.11ax	
	40MHz:	802.11n, 802.11ac, 801.11ax	
	80MHz:	/	
Antenna information			
Antenna delivery:	/		
Antenna technology:	/		
Antenna type:	FPC Antenna		
Antenna gain:	2.59 dBi		

3.3. Operation state

➤ Frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

Band	Test Channel	20MHz		40MHz		80MHz	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
I	CH _L	36	5180	38	5190	-	-
	CH _M	40	5200	-	-	42	5210
	CH _H	48	5240	46	5230	-	-
II	CH _L	52	5260	54	5270	-	-
	CH _M	56	5280	-	-	58	5290
	CH _H	64	5320	62	5310	-	-
III	CH _L	100	5500	102	5510	106	5530
	CH _M	120	5600	118	5590	-	-
	CH _H	140	5700	134	5670	122	5610
IV	CH _L	149	5745	151	5755	-	-
	CH _M	157	5785	-	-	155	5775
	CH _H	165	5825	159	5795	-	-

Only the worst case test results are provided in this test report.

➤ Data Rated

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Mode	Data rate (worst mode)
802.11a	OFDM
802.11n(HT20)/ 802.11ac(VHT20), 802.11ax(HE20)	MCS7
802.11n(HT40)/ 802.11ac(VHT40), 802.11ax(HE40)	MCS11

➤ Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).
For AC power line conducted emissions:
The EUT was set to continuously transmitted.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%). The EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

○	N/A	Manufacturer :	N/A
		Model No. :	N/A
○	N/A	Manufacturer :	N/A
		Model No. :	N/A

3.5. Discontinue transmitting with absence of Data or operational failure states

According to section 15.407 (c):

“The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.”

Data transmission is always initiated by software, which is then passed down through the MAC, through the digital and analog baseband, and finally to the RF chip.

Several special packets (ACKs, CTS, PSpoll, etc...) are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

All tests were performed at:

ITL Co., Ltd

No. 8 Jinqianling Street 5, Huangjiang Town, Dongguan, Guangdong, 523757 P.R.C.

0086-769-39001678

itl@i-testlab.com

No tests were sub-contracted.

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- CNAS Lab code:L9342
- FCC Designation No.:CN5035
- IC Registration NO.: 12593A
- NVLAP LAB CODE: 600199-0

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050 mba

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Parameter	Uncertainty
Radio frequency	2.25%
total RF power, conducted	±1.34 dB
RF power density, conducted	±1.49 dB
All emissions, radiated	±2.72 dB
Temperature	±5.02 dB
Humidity	±0.8°C
DC and low frequency voltages	±1.5 %
All emissions, conducted	±2.30 dB

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.5. Equipments Used during the Test

No.	Test Equipment	Manufacturer	Model	Serial No.	Cal Data	Due Date
DGITL-115	50Ω Coaxial Cable	Mini-circuits	CBL	C001	2025.03.14	2026.03.14
DGITL-182	Test software	2.0.0.0	MTS 8310	/	/	/
DGITL-190	Filter	COM-MW	K6-2400-2483.5-100S5010-007	12230496	2025.01.10 2026.01.14	2026.01.09 2027.01.13
DGITL-191	Filter	COM-MW	K6-5150-5850-100S5010-003	12234382	2025.01.10 2026.01.14	2026.01.09 2027.01.13
DGITL-301	Semi-Anechoic chamber	ETS•Lindgren	9*6*6	CT000874-1181	2023.08.02	2026.08.02
DGITL-307	EMI test receiver	SCHWARZBECK	ESVS10	833616/003	2025.03.14	2026.03.13
DGITL-376	Wideband Radio Communication Tester	SCHWARZBECK	CMW500	LR114195	2025.03.14	2026.03.13
DGITL-349a	Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	259268	2025.03.14	2026.03.13
DGITL-194	Power Meter	MWRFTest	MW100-PSB	MW202006002	2025.03.14	2026.03.13
DGITL-306	Spectrum Analyzer	Agilent Technologies	N9010A	MY54200334	2025.03.14	2026.03.13
DGITL-352	Pre Amplifier	MInI-Circuits	ZFC-1000HX	SN292801110	2025.03.14	2026.03.13
DGITL-375	Spectrum Analyzer	SCHWARZBECK	FSV40-N	6625-01-588-5515	2025.03.14	2026.03.13
DGITL-309	Horn Antenna	ETS Lindgren	3117	SN00152265	2025.05.13	2026.05.12
DGITL-308	Bilog Antenna	ETS· Lindgren	3142E	156975	2025.05.13	2026.05.12
DGITL-350	Wideband Amplifier Super Ultra	MInI-Circuits	ZVA-183X-S+	SN986401426	2025.03.14	2026.03.12
DGITL-371	Pre Amplifier	teramicrowave	TALA-0040G35	18081001	2025.03.14	2026.03.12
DGITL-363	Active Loop Antenna	SCHWARZBECK	FMZB1519B	00062	2024.05.15	2026.05.14
DGITL-302	Shielded Room	ETS• Lindgren	8*4*3	CT09010	2023.08.02	2026.08.02
DGITL-304	L.I.S.N.#1	R&S	ESH3-Z5	100272	2025.03.13	2026.03.12

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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.

Test Result:

The antenna is FPC Antenna and no consideration of replacement. The best case gain of the antenna is 2.59 dBi.

5.2. AC power-line conducted emissions

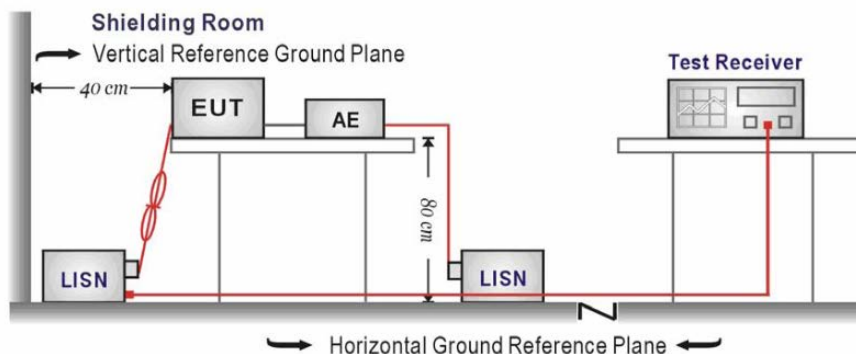
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

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 CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10:2020 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the centre of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 KHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Note:

- 1) Trans=Cable lose+ Pulse Limiter Factor + Artificial Mains Factor
- 2) Margin= Limit -Level

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected. For EUT the 802.11 a mode was worst case mode.

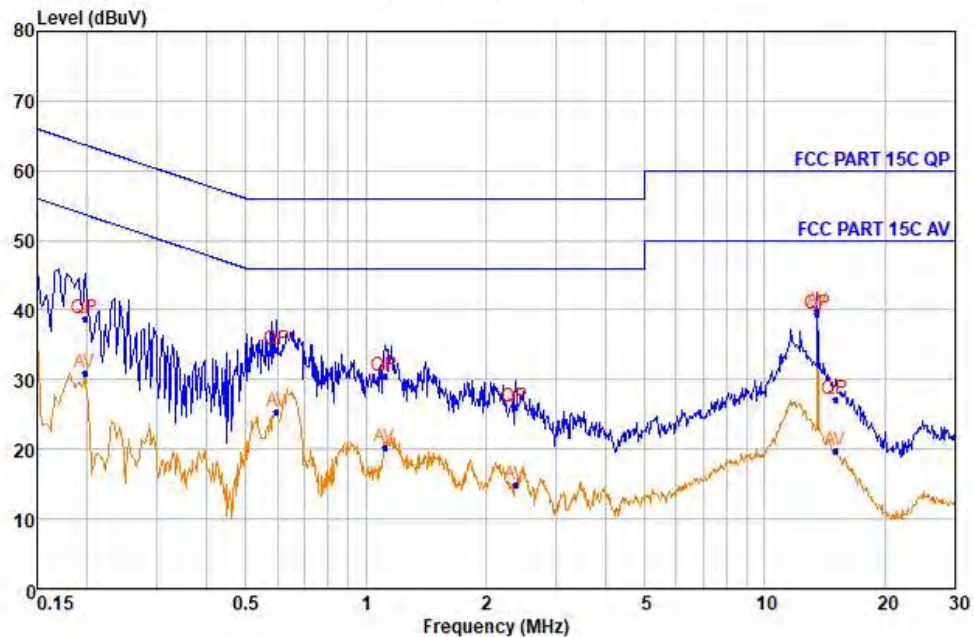
Test Line:

L

Live Line:

Peak scan

Level (dB μ V/m)



NO.	Freq MHz	Level dBuV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBuV	Margin dB
1	0.198	38.74	QP	9.68	0.22	63.71	-24.97
2	0.198	30.96	Average	9.68	0.22	53.71	-22.75
3	0.597	34.22	QP	9.68	0.28	56.00	-21.78
4	0.597	25.48	Average	9.68	0.28	46.00	-20.52
5	1.115	30.49	QP	9.67	0.31	56.00	-25.51
6	1.115	20.33	Average	9.67	0.31	46.00	-25.67
7	2.365	26.13	QP	9.64	0.36	56.00	-29.87
8	2.365	15.02	Average	9.64	0.36	46.00	-30.98
9	13.528	39.34	QP	9.69	0.45	60.00	-20.66
10	13.528	39.84	Average	9.69	0.45	50.00	-10.16
11	15.031	27.26	QP	9.71	0.46	60.00	-32.74
12	15.031	19.79	Average	9.71	0.46	50.00	-30.21

Level=Read Level + LISN Factor + Cable Loss

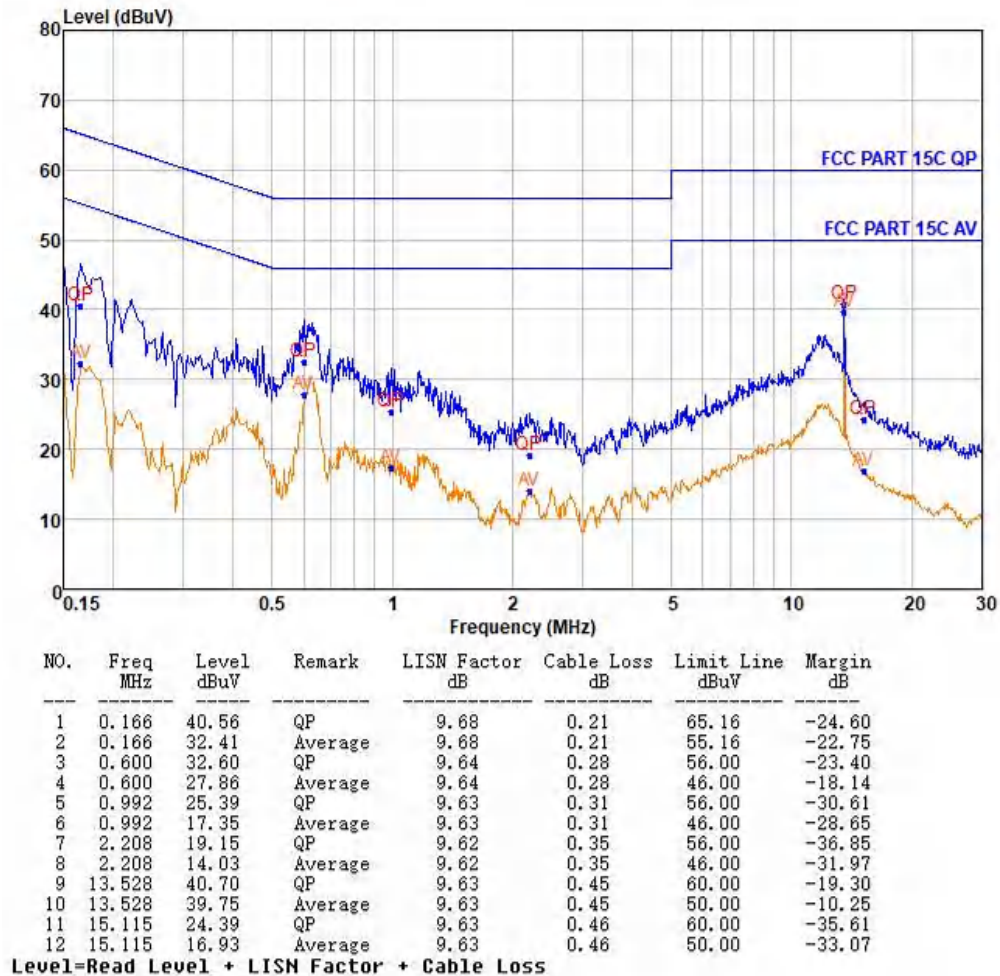
Quasi-peak and Average measurement

Test Line:

N

Neutral Line:

Peak scan

Level (dB μ V/m)

Quasi-peak and Average measurement

Test Result: The unit does meet the FCC requirements.

5.3. Maximum Conducted Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a):

For the 5.15~5.25GHz band:

- Outdoor AP
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
If $G_{TX} > 6\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125\text{mW}$ (21dBm)
- Indoor AP
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
If $G_{TX} > 6\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$.
- Point-to-point AP
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
If $G_{TX} > 23\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 23)$.
- Client devices
The maximum conducted output power (P_{out}) shall not exceed the lesser of 250W (24dBm).
If $G_{TX} > 6\text{dBi}$, then $P_{out} = 24 - (G_{TX} - 6)$.

For the 5.25~5.35GHz band:

The maximum conducted output power (P_{out}) shall not exceed the lesser of 250mW (24dBm) or 11dBm+10 log B, where B is the 26dB emission bandwidth in MHz.
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 24 - (G_{TX} - 6)$.

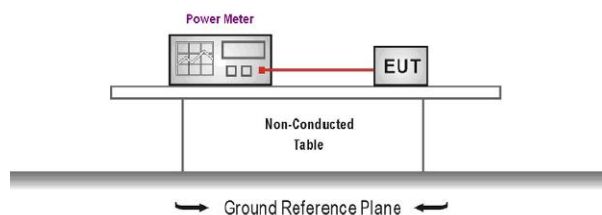
For the 5.47~5.725GHz band:

The maximum conducted output power (P_{out}) shall not exceed the lesser of 250mW (24dBm) or 11dBm+10 log B, where B is the 26dB emission bandwidth in MHz.
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 24 - (G_{TX} - 6)$.

For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$.
- Point-to-point systems (P2P)
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).

TEST CONFIGURATION



TEST PROCEDURE

1. The testing follows the KDB 789033 D02 v02r01 Section I.E.2.b and ANSI C63.10:2020 Section 12.3.2.2.
2. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

TEST MODE:

Please refer to the clause 3.3

TEST RESULT ☒ Passed ☐ Not Applicable

Band I

Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5180	8.42	1.41	9.83	24	Pass
a	5200	9.13	1.56	10.69	24	Pass
a	5240	7.77	1.74	9.51	24	Pass
ac20	5180	8.01	0.18	8.19	24	Pass
ac20	5200	7.52	0.21	7.73	24	Pass
ac20	5240	6.37	0.68	7.05	24	Pass
ac40	5190	7.11	1.03	8.14	24	Pass
ac40	5230	7.22	0.56	7.78	24	Pass
ax20	5180	8.28	0.21	8.49	24	Pass
ax20	5200	7.83	0.31	8.14	24	Pass
ax20	5240	6.61	0.27	6.88	24	Pass
ax40	5190	7.29	0.64	7.93	24	Pass
ax40	5230	7.31	0.83	8.14	24	Pass
n20	5180	8.48	0.22	8.7	24	Pass
n20	5200	7.35	0.24	7.59	24	Pass
n20	5240	6.44	0.18	6.62	24	Pass
n40	5190	7.42	1.02	8.44	24	Pass
n40	5230	7.37	1.03	8.4	24	Pass

Band II

Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5260	8.31	1.44	9.75	24	Pass
a	5280	9.38	1.21	10.59	24	Pass
a	5320	8.53	1.45	9.98	24	Pass
ac20	5260	8.42	0.24	8.66	24	Pass
ac20	5280	9.86	0.36	10.22	24	Pass
ac20	5320	9.19	0.23	9.42	24	Pass
ac40	5270	9.11	0.45	9.56	24	Pass
ac40	5310	9.13	0.5	9.63	24	Pass
ax20	5260	8.49	0.27	8.76	24	Pass
ax20	5280	9.97	0.3	10.27	24	Pass
ax20	5320	9.3	0.26	9.56	24	Pass
ax40	5270	9.14	0.84	9.98	24	Pass
ax40	5310	9.17	0.81	9.98	24	Pass
n20	5260	10.91	0.3	11.21	24	Pass
n20	5280	10.03	0.24	10.27	24	Pass
n20	5320	9.21	0.25	9.46	24	Pass
n40	5270	9.08	0.7	9.78	24	Pass
n40	5310	9.09	0.45	9.54	24	Pass

Band III

Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5500	8.36	1.41	9.77	24	Pass
a	5600	8.07	1.45	9.52	24	Pass
a	5700	5.8	1.4	7.2	24	Pass
ac20	5500	11.4	0.21	11.61	24	Pass
ac20	5600	10.37	0.79	11.16	24	Pass
ac20	5700	7.49	0.23	7.72	24	Pass
ac40	5510	11.44	0.65	12.09	24	Pass
ac40	5590	10.58	0.46	11.04	24	Pass
ac40	5670	8.91	0.79	9.7	24	Pass
ax20	5500	11.45	0.42	11.87	24	Pass
ax20	5600	10.41	0.82	11.23	24	Pass
ax20	5700	7.68	0.75	8.43	24	Pass
ax40	5510	11.33	0.57	11.9	24	Pass
ax40	5590	10.54	0.55	11.09	24	Pass
ax40	5670	8.89	0.98	9.87	24	Pass
n20	5500	11.47	0.24	11.71	24	Pass
n20	5600	10.39	0.68	11.07	24	Pass
n20	5700	7.59	0.35	7.94	24	Pass
n40	5510	11.37	0.42	11.79	24	Pass
n40	5590	10.66	0.47	11.13	24	Pass
n40	5670	9.03	0.67	9.7	24	Pass

Band IV

Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5745	4.96	1.47	6.43	30	Pass
a	5785	6.29	1.72	8.01	30	Pass
a	5825	4.39	1.45	5.84	30	Pass
ac20	5745	5.46	0.25	5.71	30	Pass
ac20	5785	5.42	0.69	6.11	30	Pass
ac20	5825	4.29	0.81	5.1	30	Pass
ac40	5755	5.27	0.92	6.19	30	Pass
ac40	5795	4.51	1.07	5.58	30	Pass
ax20	5745	5.34	0.29	5.63	30	Pass
ax20	5785	5.43	0.3	5.73	30	Pass
ax20	5825	4.33	0.28	4.61	30	Pass
ax40	5755	5.22	0.45	5.67	30	Pass
ax40	5795	4.53	0.95	5.48	30	Pass
n20	5745	5.51	0.21	5.72	30	Pass
n20	5785	4.92	0.73	4.65	30	Pass
n20	5825	4.26	0.21	4.47	30	Pass
n40	5755	5.56	0.45	6.01	30	Pass
n40	5795	4.6	0.69	5.29	30	Pass

5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a):

For the 5.15~5.25GHz band:

- Outdoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 6)$.
- Indoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 6)$.
- Point-to-point AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{TX} > 23\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 23)$.
- Client devices
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

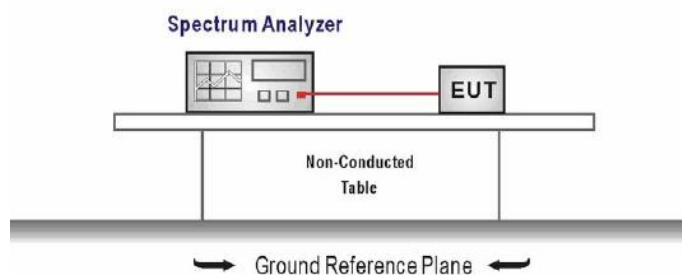
For the 5.47~5.725GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500KHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 30 - (G_{TX} - 6)$.
- Point-to-point systems (P2P)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500KHz.

TEST CONFIGURATION



TEST PROCEDURE

1. The testing follows the KDB 789033 D02 v02r01 Section II.F and ANSI C63.10:2020 Section 11.10.5.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set span to encompass the entire 99% OBW of the signal.
4. For U-NI-1, U-NI-2a, U-NI-2c Band: Set RBW = 1MHz, VBW > 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
5. For U-NI-3 Band: Set RBW = 500 KHz, VBW > 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
6. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$,
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Use the peak search function on the instrument to find the peak of the spectrum.

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TEST MODE:

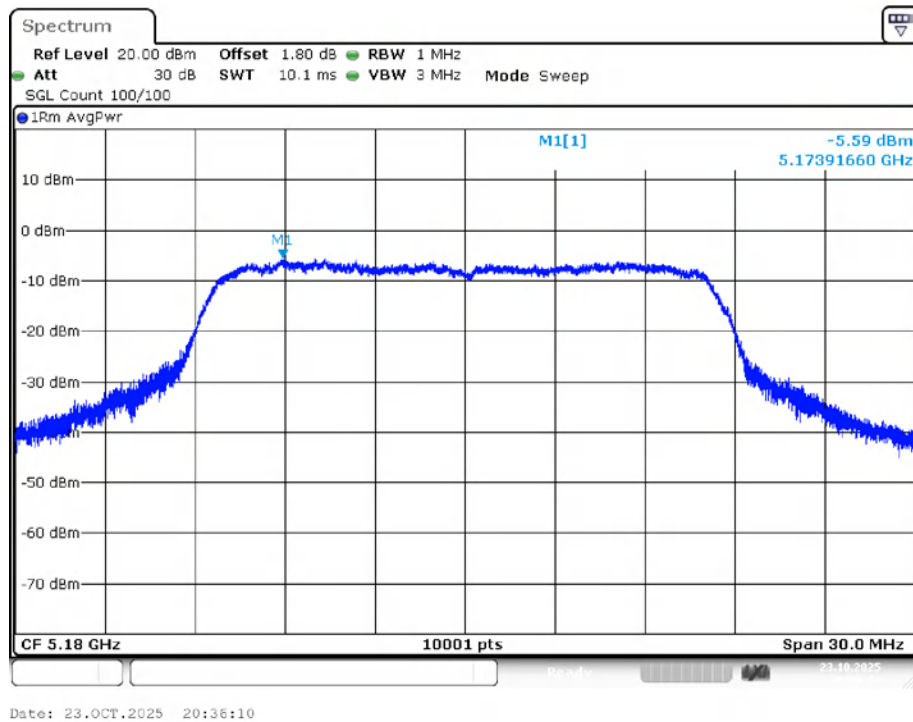
Please refer to the clause 3.3

TEST RESULTS☒ **Passed** ☐ **Not Applicable**

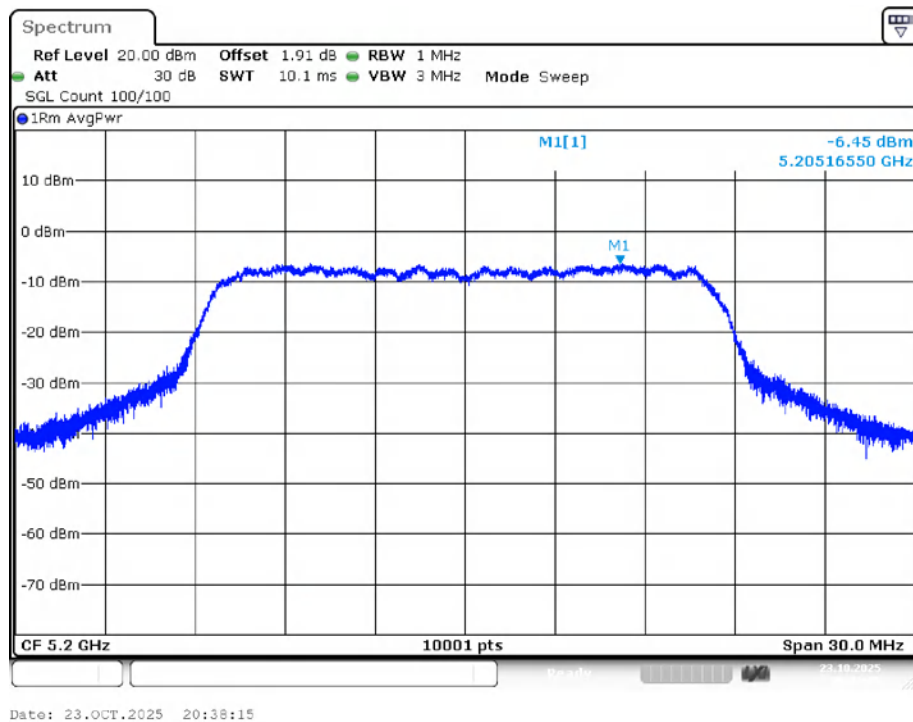
Band I

Mode	Frequency (MHz)	Duty Factor (dB)	Max PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
a	5180	1.41	-5.592	-4.182	11	Pass
a	5200	1.56	-6.449	-4.889	11	Pass
a	5240	1.74	-5.72	-3.98	11	Pass
ac20	5180	0.18	-5.117	-4.937	11	Pass
ac20	5200	0.21	-5.688	-5.478	11	Pass
ac20	5240	0.68	-5.756	-5.076	11	Pass
ac40	5190	1.03	-9.728	-8.698	11	Pass
ac40	5230	0.56	-10.293	-9.733	11	Pass
ax20	5180	0.21	-5.166	-4.956	11	Pass
ax20	5200	0.31	-5.471	-5.161	11	Pass
ax20	5240	0.27	-6.012	-5.742	11	Pass
ax40	5190	0.64	-9.942	-9.302	11	Pass
ax40	5230	0.83	-10.397	-9.567	11	Pass
n20	5180	0.22	-4.621	-4.401	11	Pass
n20	5200	0.24	-5.648	-5.408	11	Pass
n20	5240	0.18	-5.711	-5.531	11	Pass
n40	5190	1.02	-9.544	-8.524	11	Pass
n40	5230	1.03	-10.079	-9.049	11	Pass

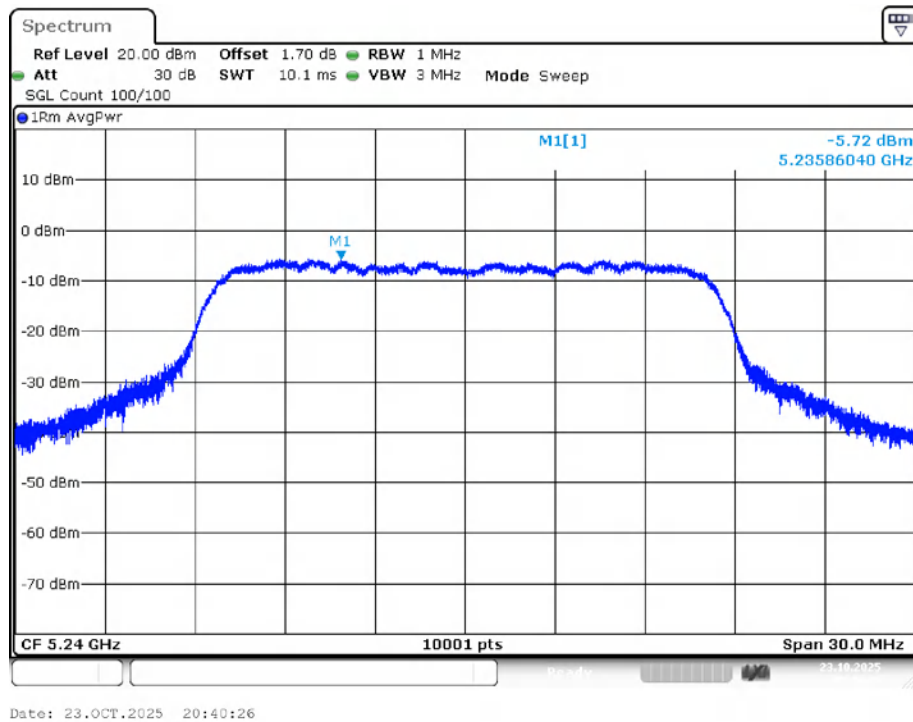
Note: Total PSD (dBm/MHz) = Duty Factor (dB) + Max PSD (dBm/MHz)



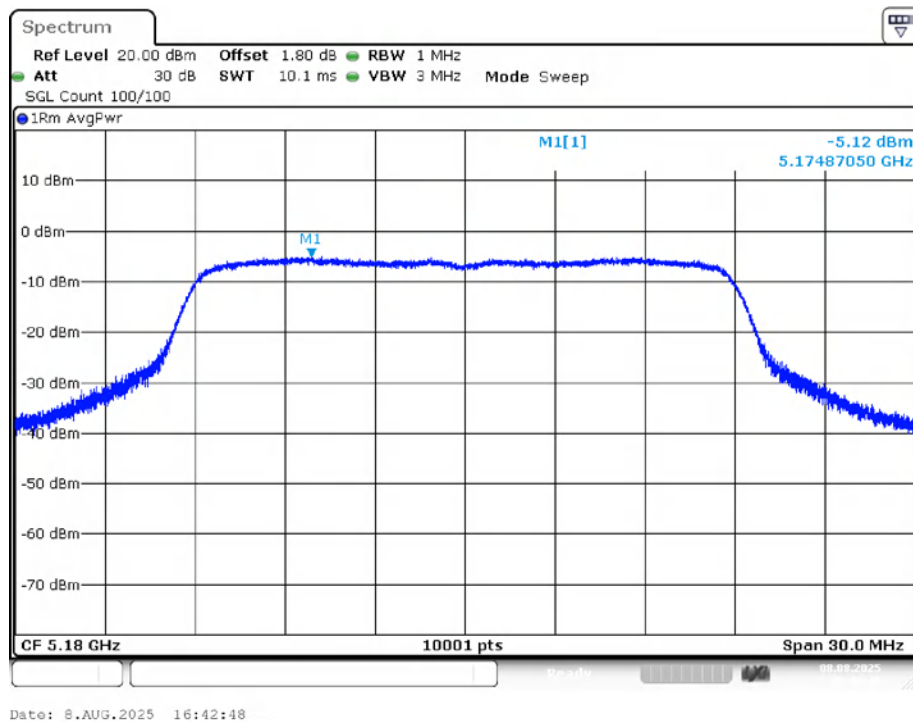
PSD NVNT a 5180MHz Ant1



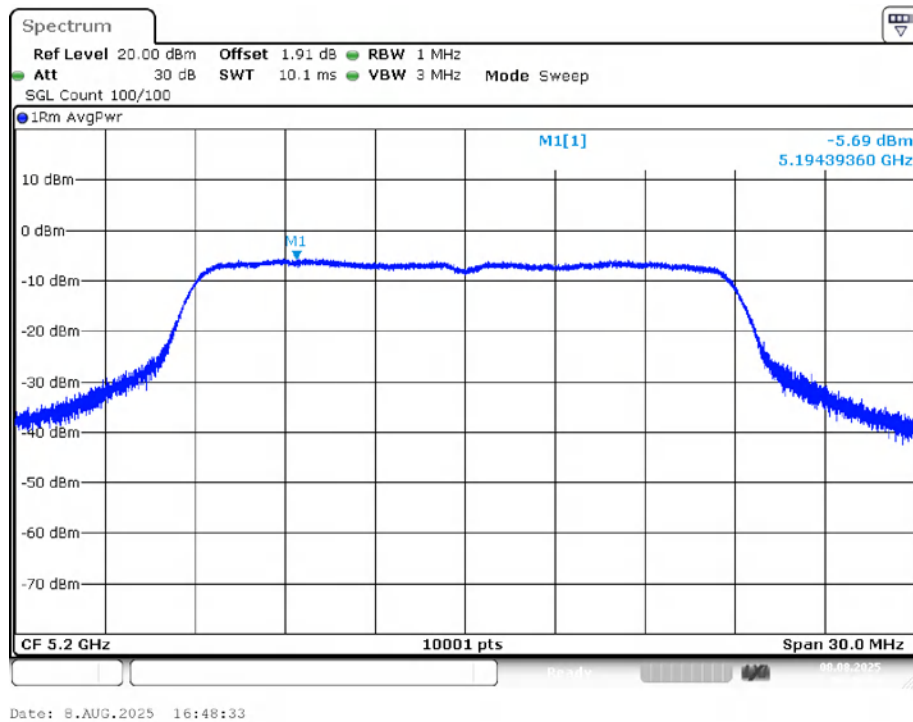
PSD NVNT a 5200MHz Ant1



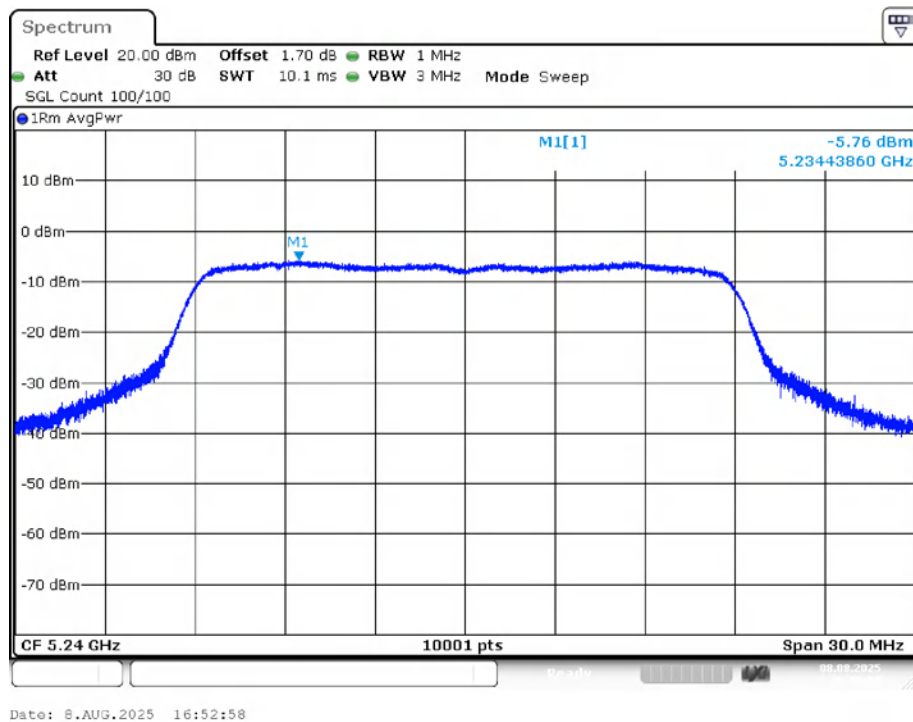
PSD NVNT a 5240MHz Ant1



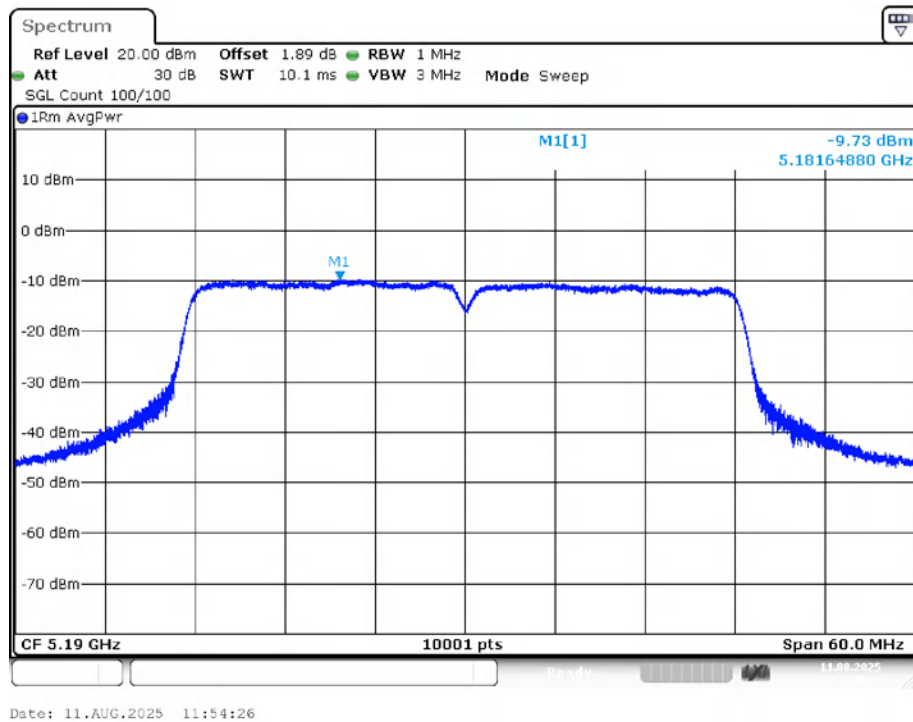
PSD NVNT ac20 5180MHz Ant1



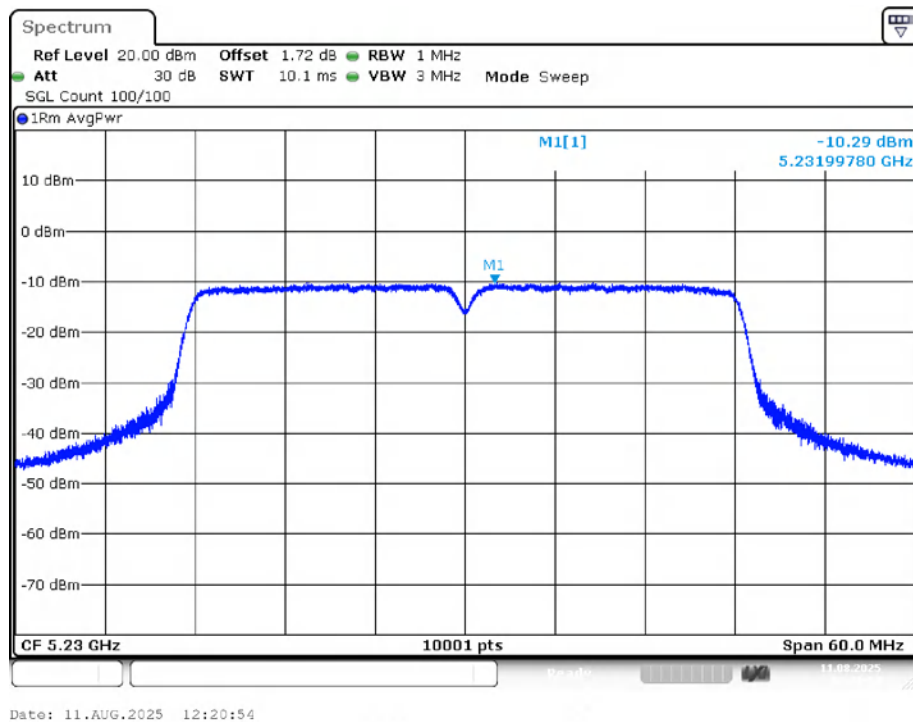
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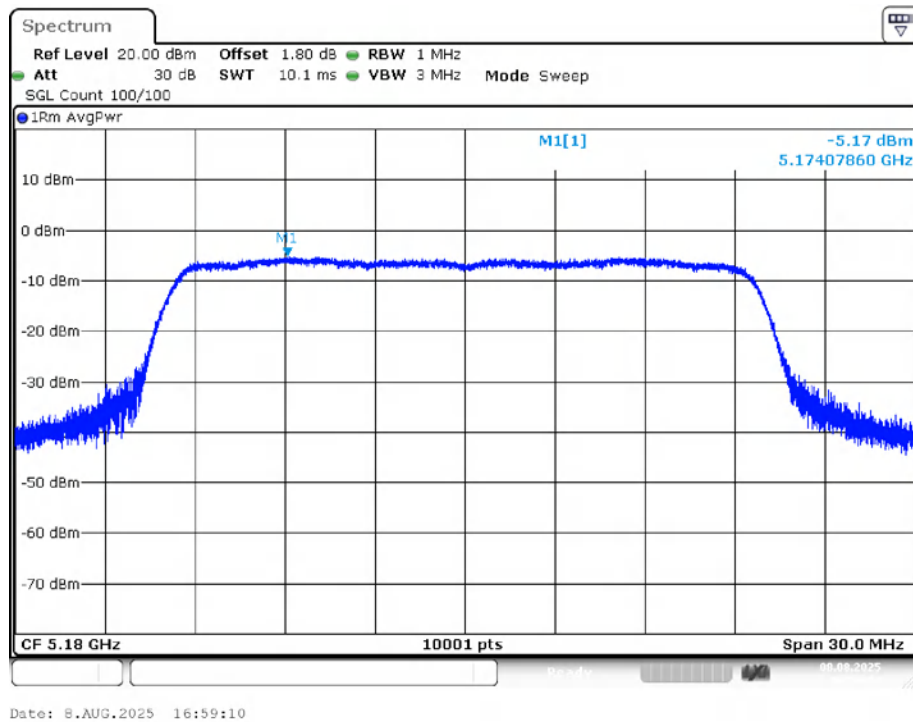
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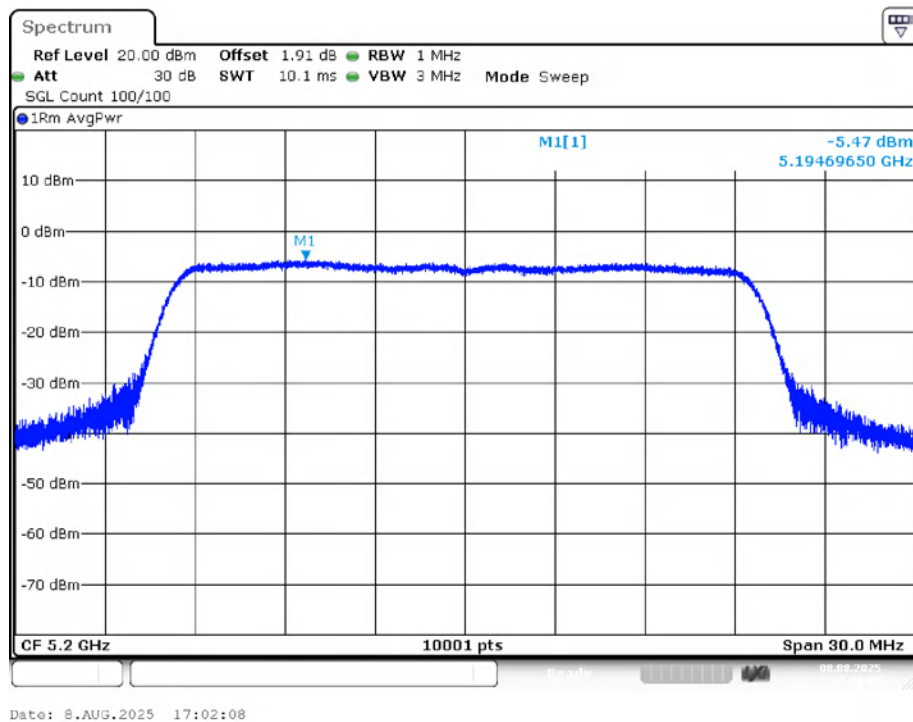
PSD NVNT ac40 5190MHz Ant1



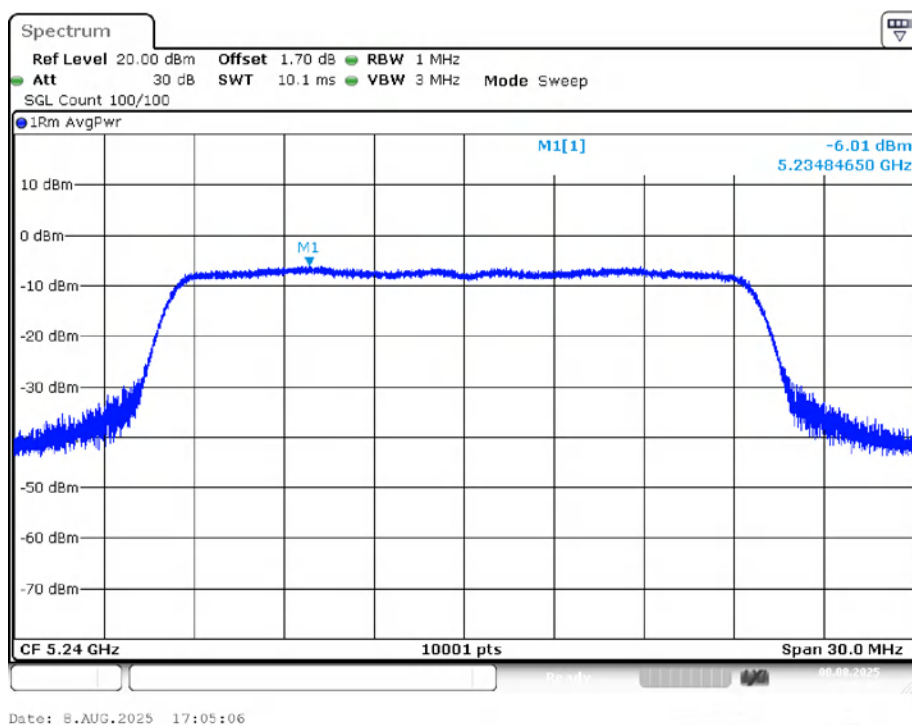
PSD NVNT ac40 5230MHz Ant1



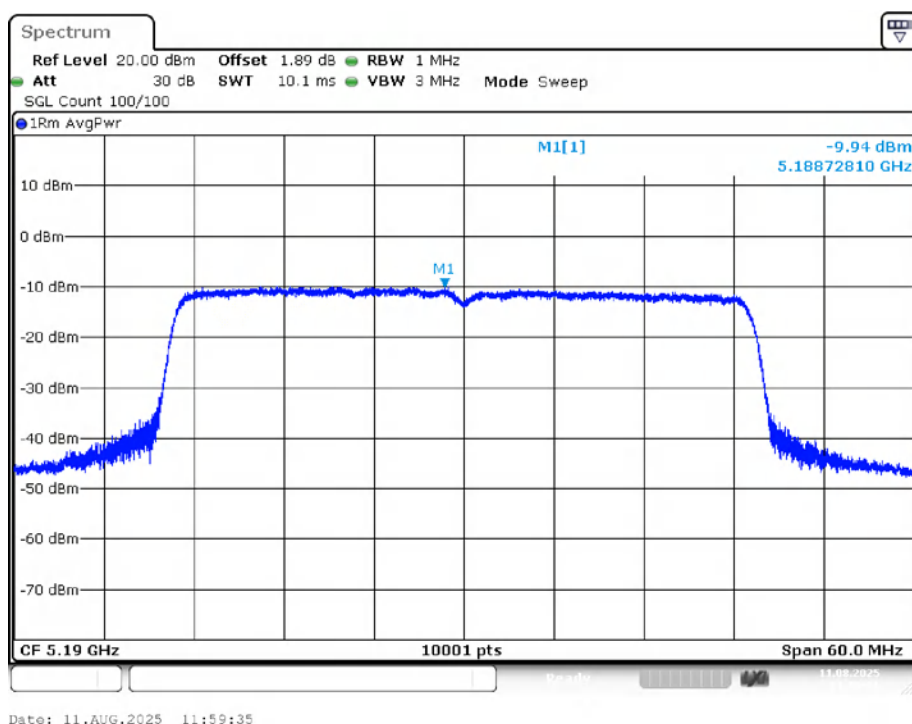
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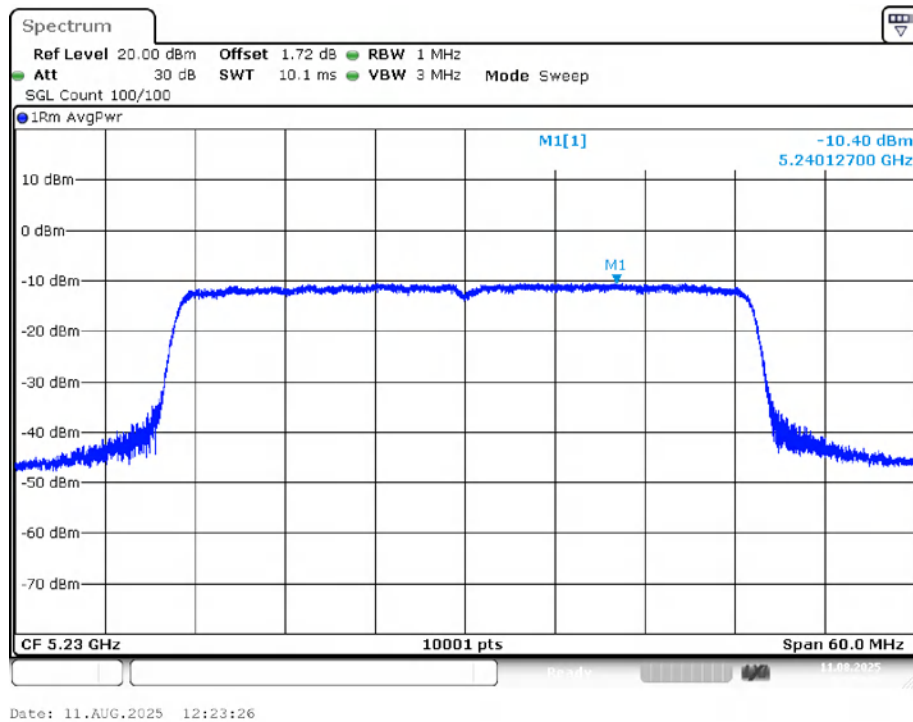
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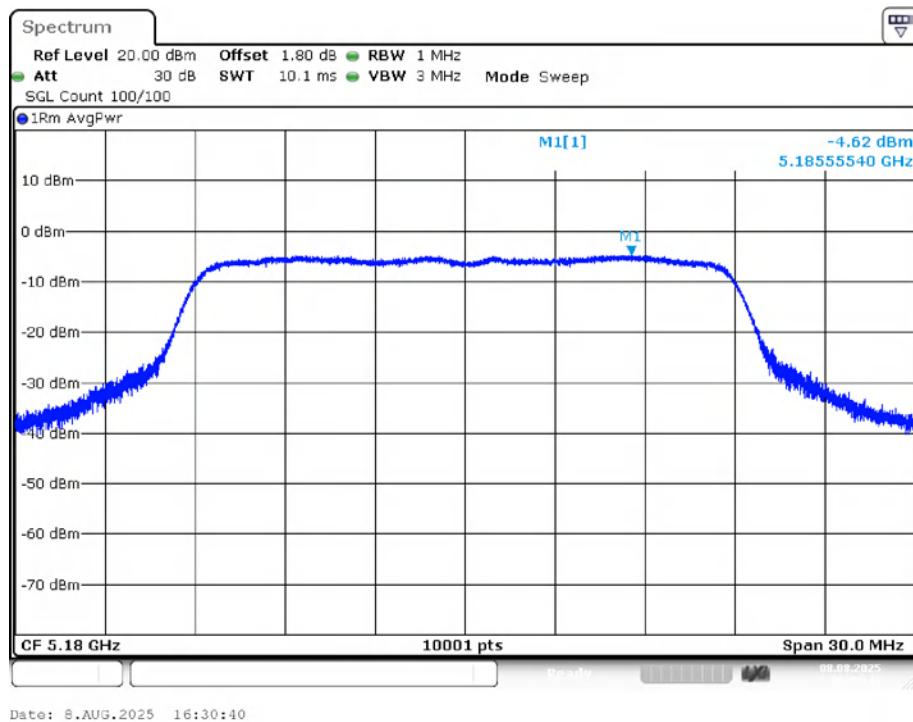
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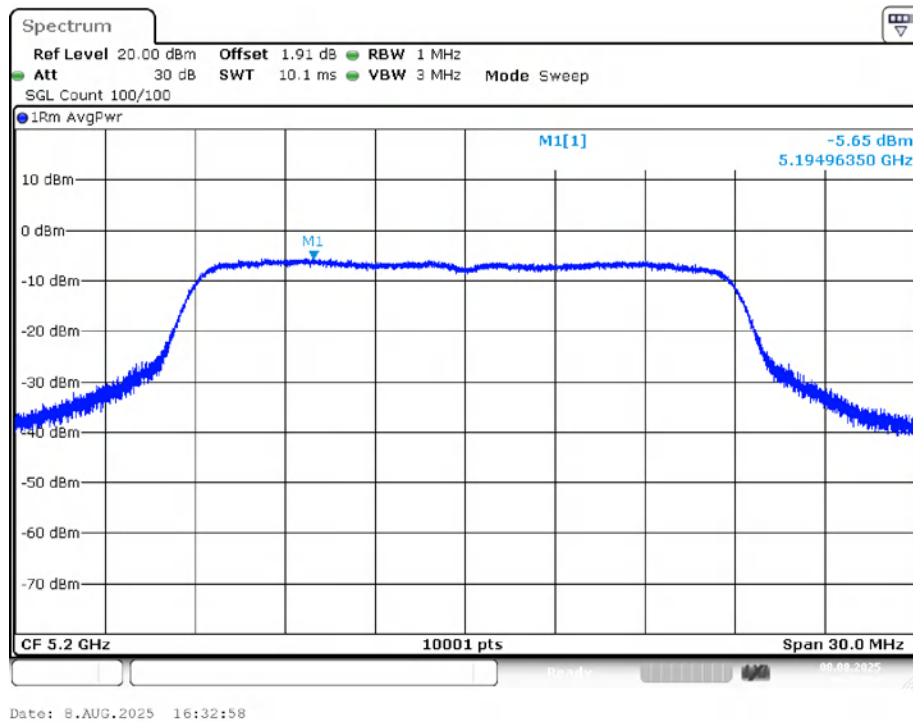
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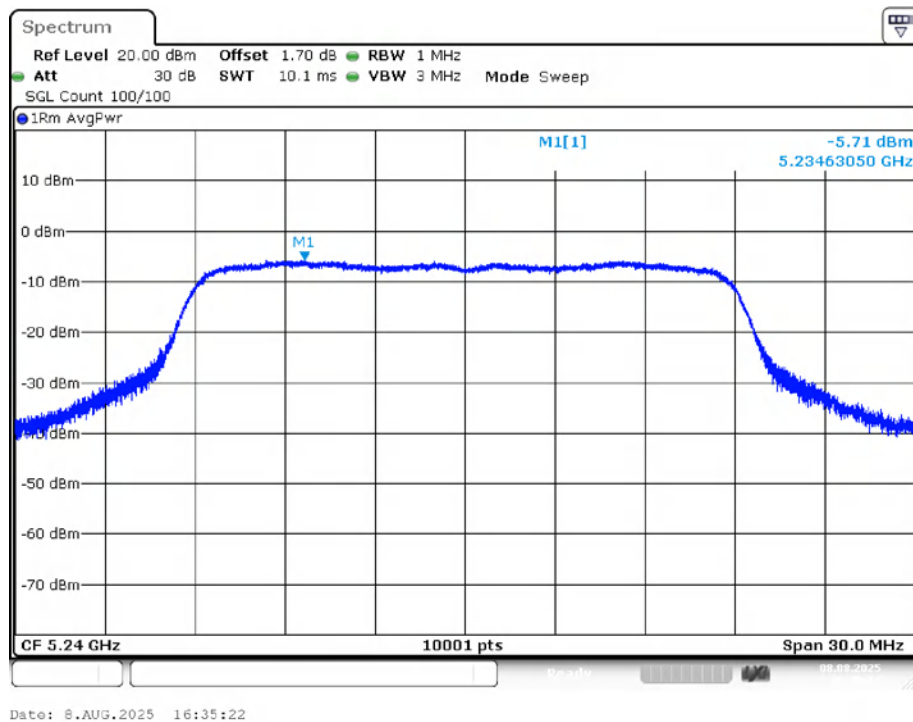
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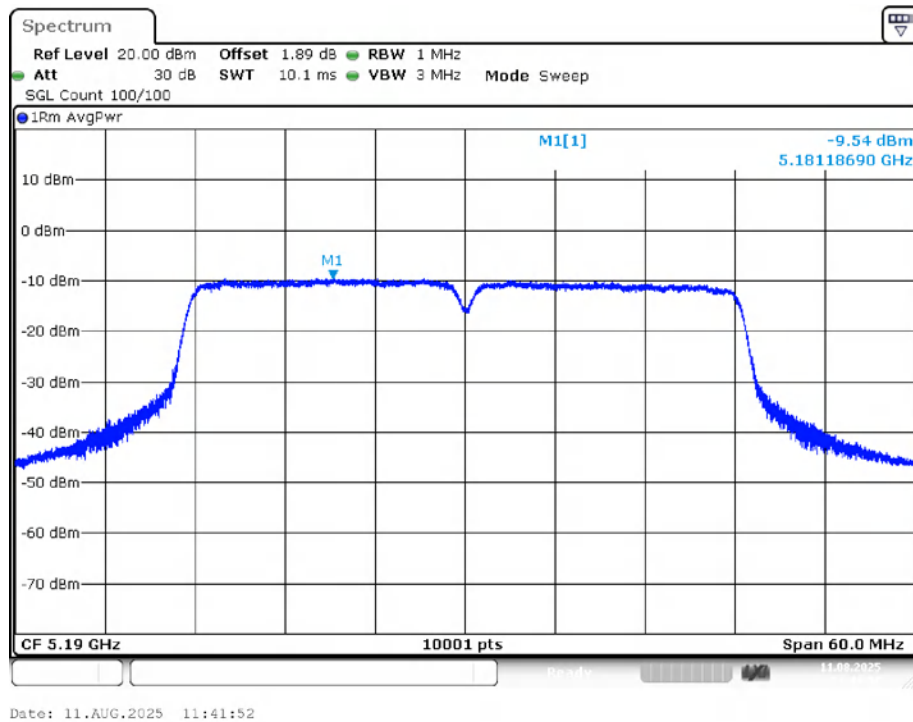
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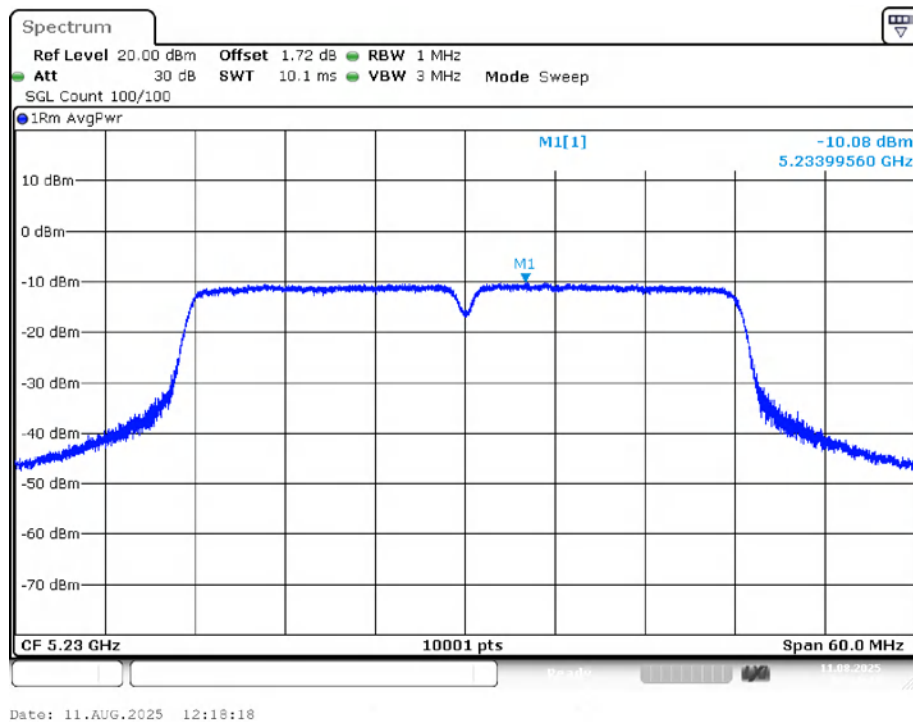
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PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1

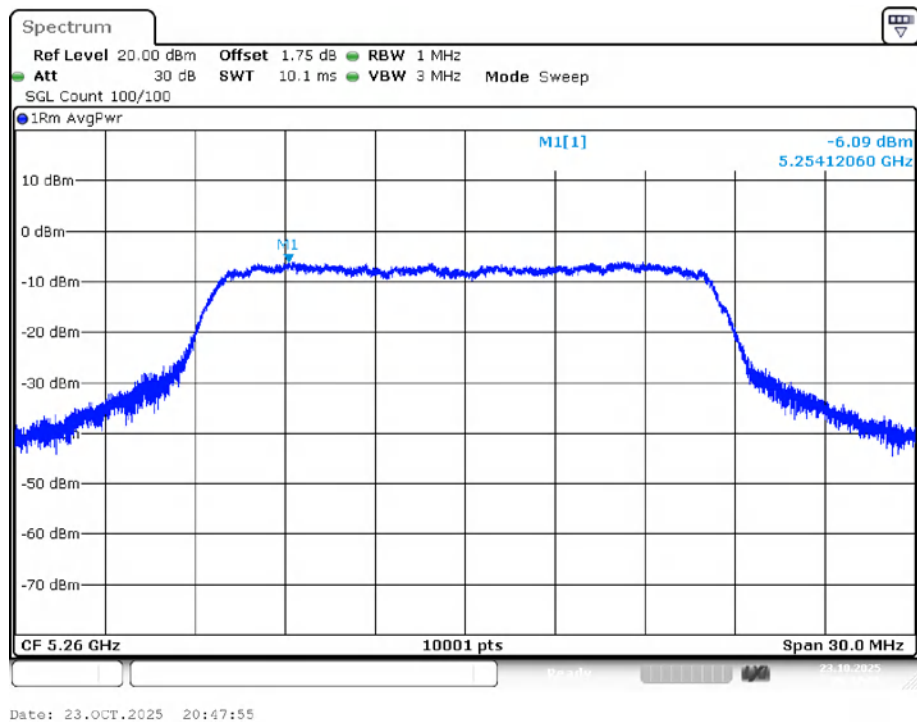


PSD NVNT n40 5230MHz Ant1

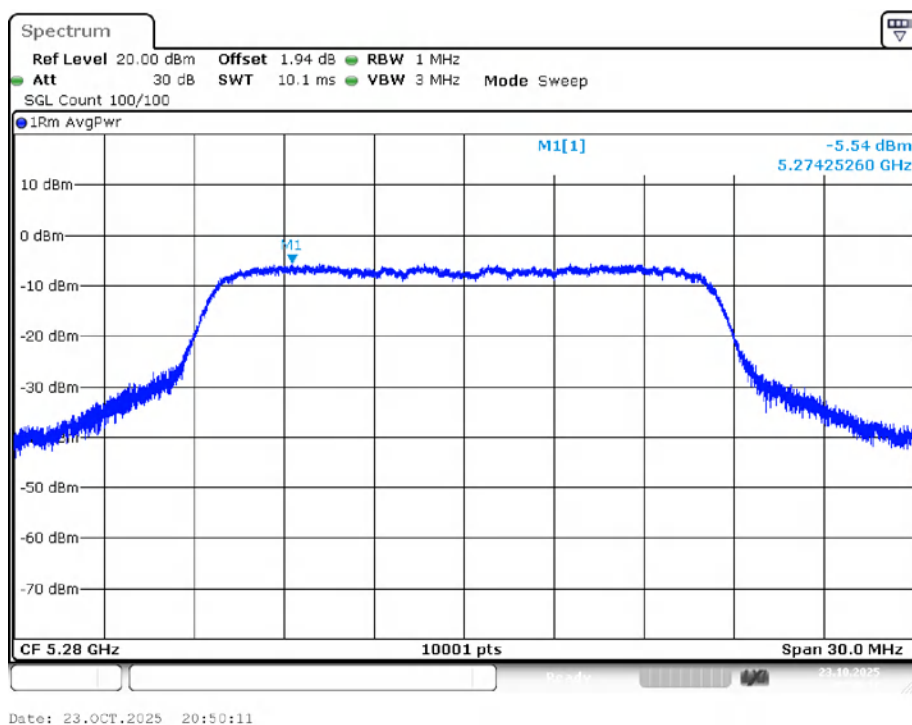
Band II

Mode	Frequency (MHz)	Duty Factor (dB)	Max PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
a	5260	1.44	-6.086	-4.646	11	Pass
a	5280	1.21	-5.535	-4.325	11	Pass
a	5320	1.45	-5.057	-3.607	11	Pass
ac20	5260	0.24	-4.841	-4.601	11	Pass
ac20	5280	0.36	-4.176	-3.816	11	Pass
ac20	5320	0.23	-3.583	-3.353	11	Pass
ac40	5270	0.45	-7.951	-7.501	11	Pass
ac40	5310	0.5	-7.171	-6.671	11	Pass
ax20	5260	0.27	-5.243	-4.973	11	Pass
ax20	5280	0.3	-4.405	-4.105	11	Pass
ax20	5320	0.26	-3.849	-3.589	11	Pass
ax40	5270	0.84	-7.706	-6.866	11	Pass
ax40	5310	0.81	-7.423	-6.613	11	Pass
n20	5260	0.3	-2.467	-2.167	11	Pass
n20	5280	0.24	-4.185	-3.945	11	Pass
n20	5320	0.25	-3.75	-3.5	11	Pass
n40	5270	0.7	-7.928	-7.228	11	Pass
n40	5310	0.45	-7.323	-6.873	11	Pass

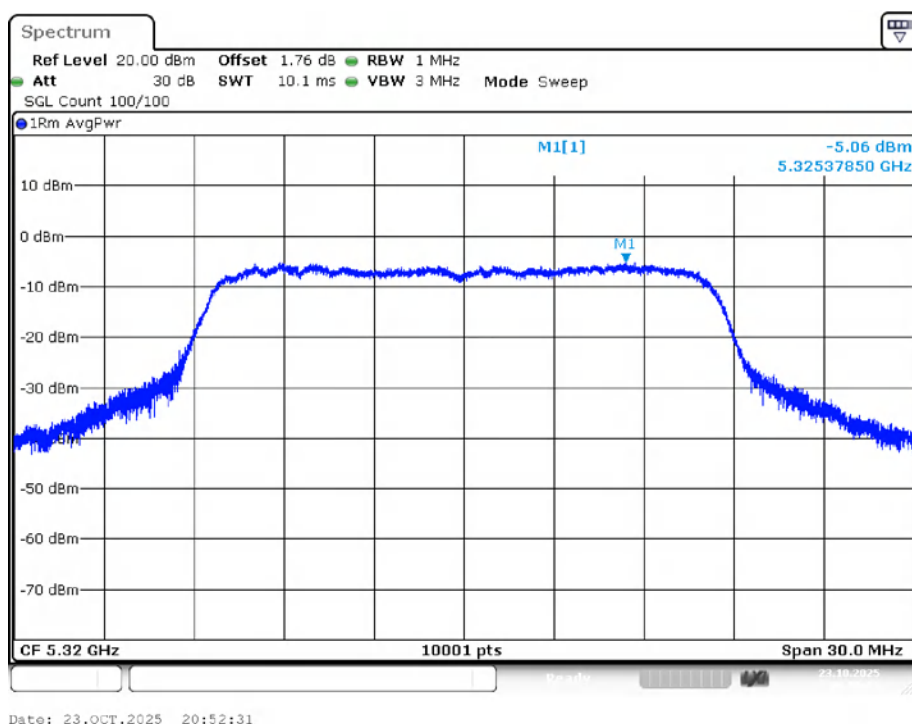
Note: Total PSD (dBm/MHz) = Duty Factor (dB) + Max PSD (dBm/MHz)



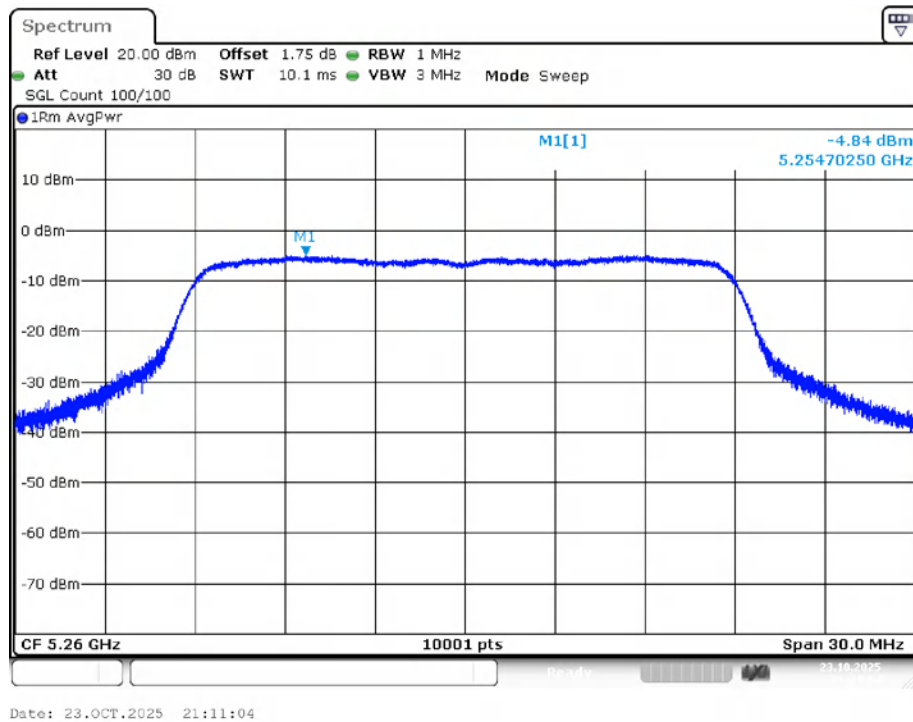
PSD NVNT a 5260MHz Ant1



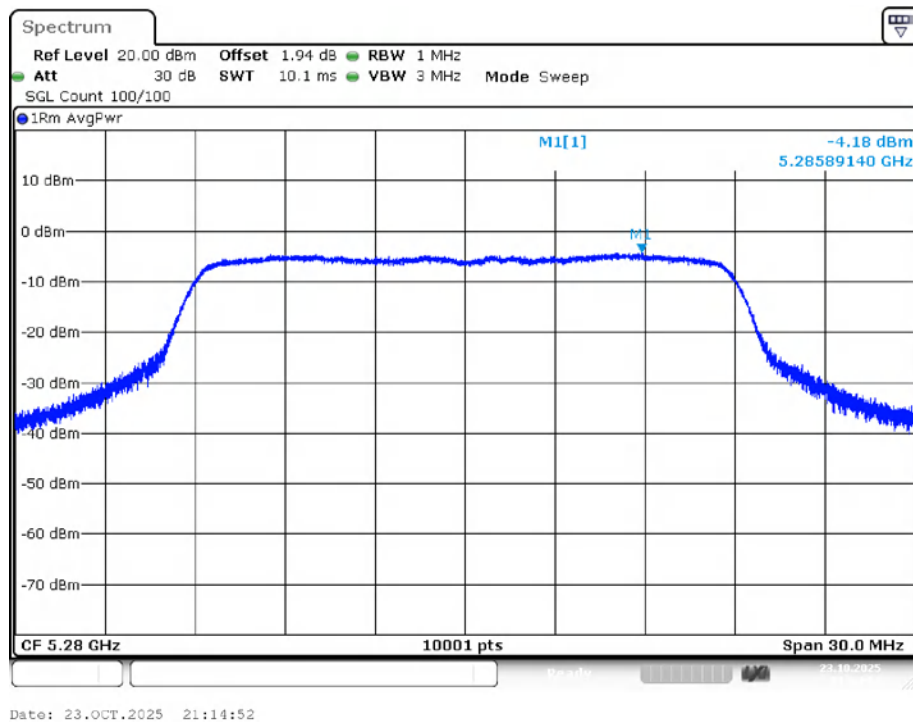
PSD NVNT a 5280MHz Ant1



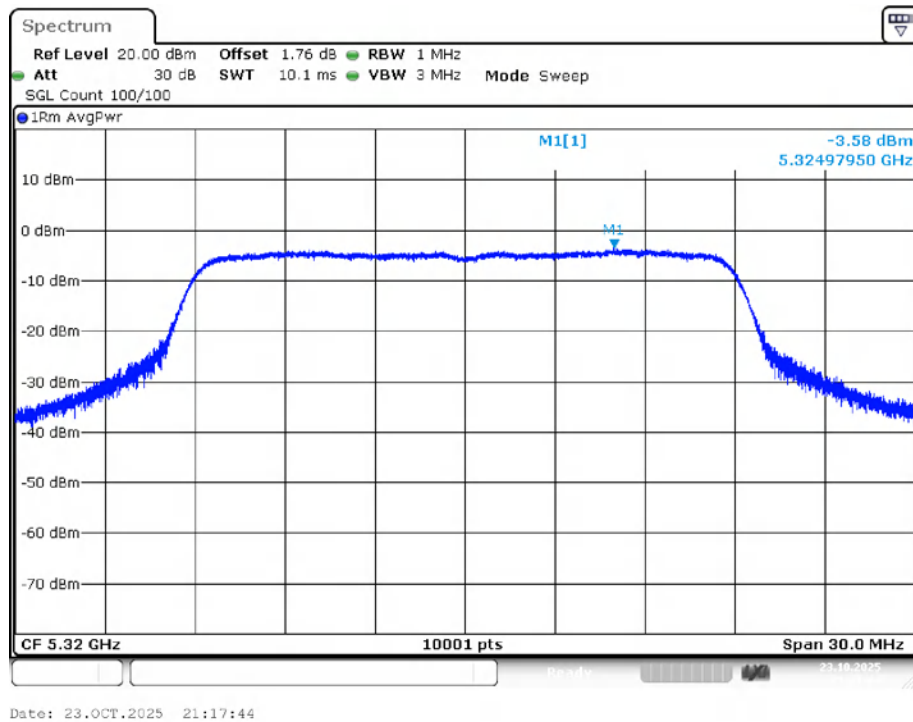
PSD NVNT a 5320MHz Ant1



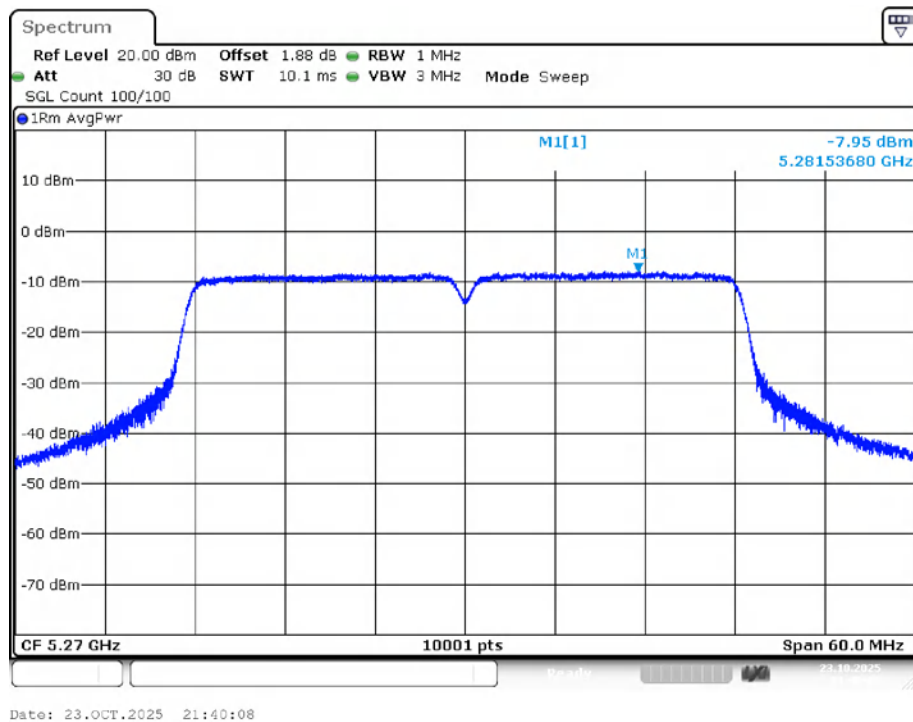
PSD NVNT ac20 5260MHz Ant1



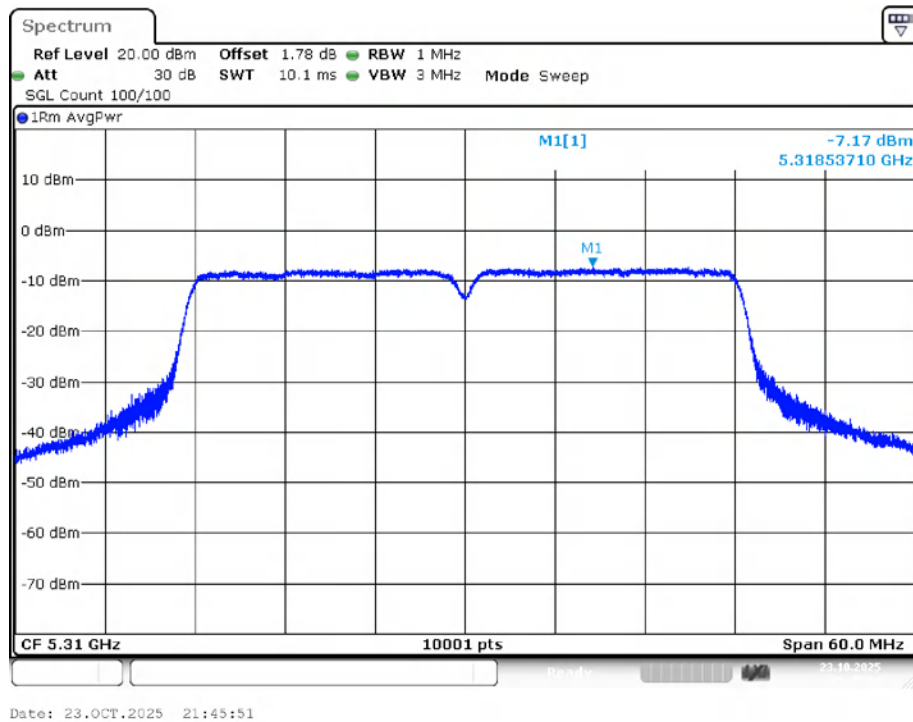
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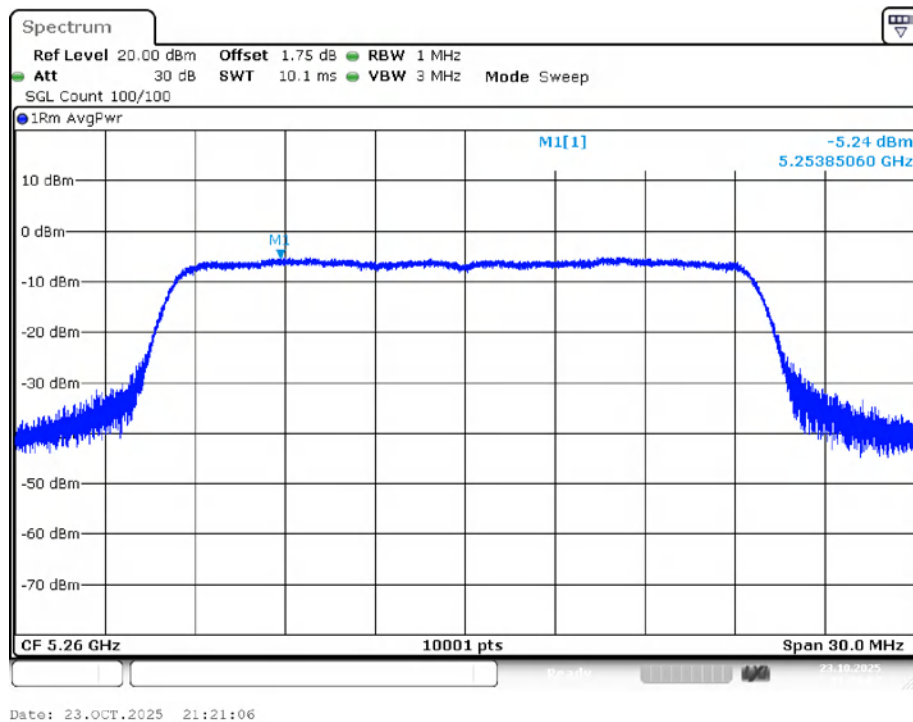
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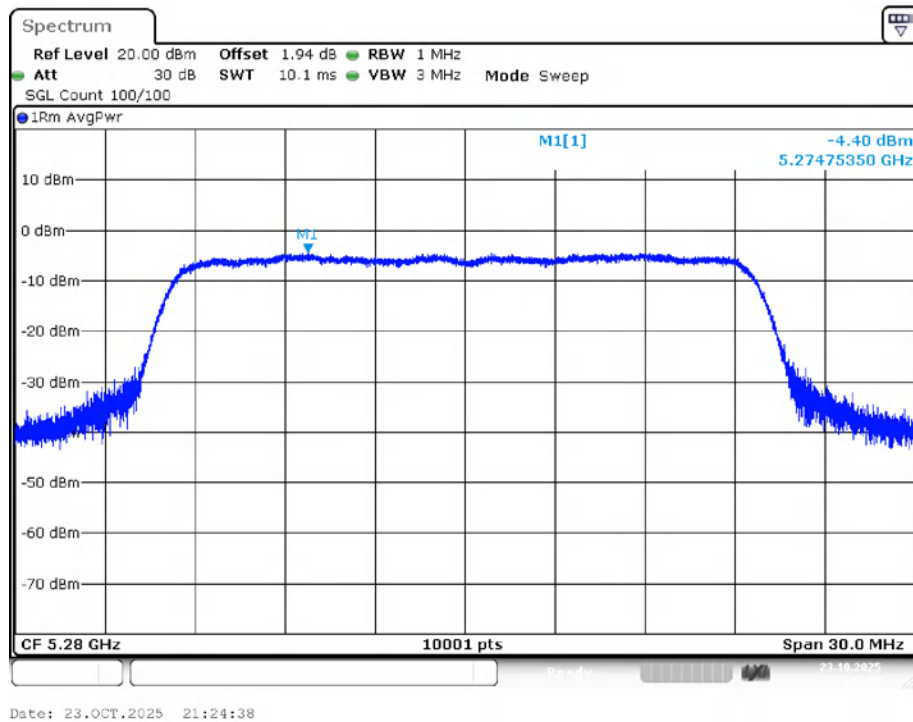
PSD NVNT ac40 5270MHz Ant1



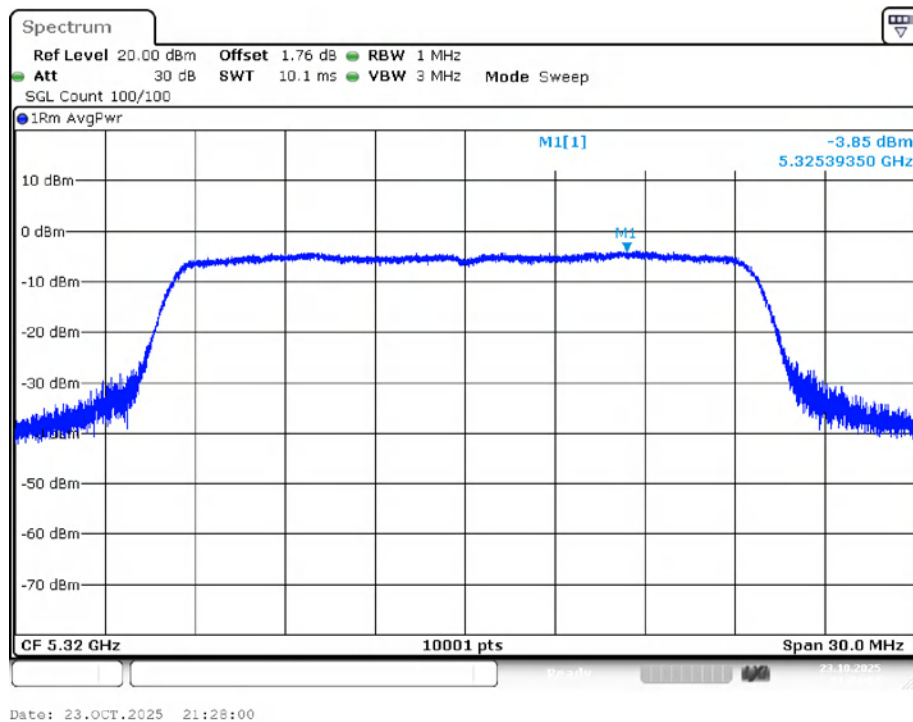
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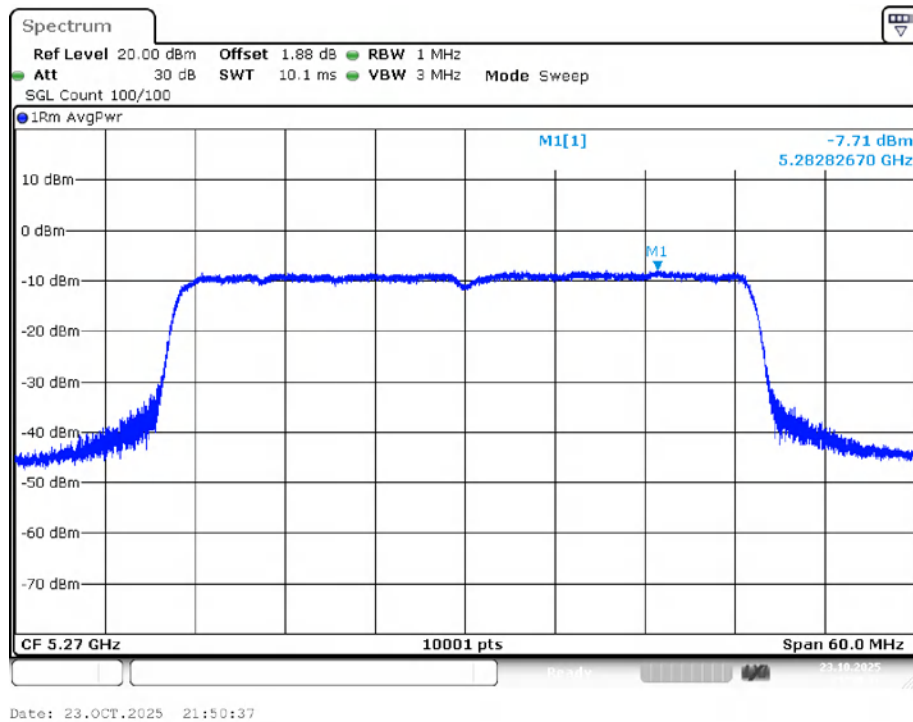
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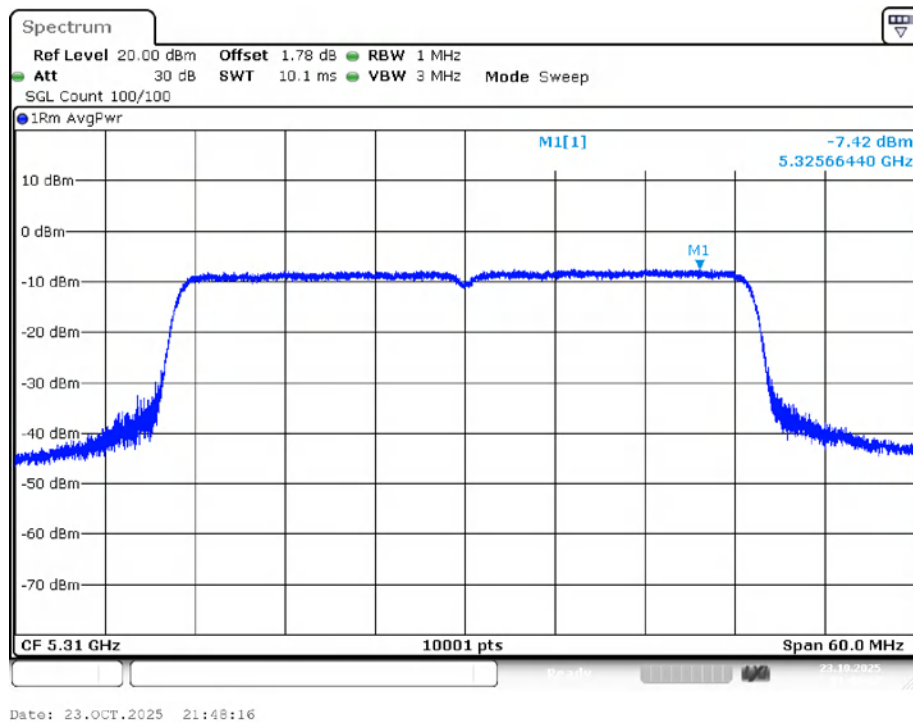
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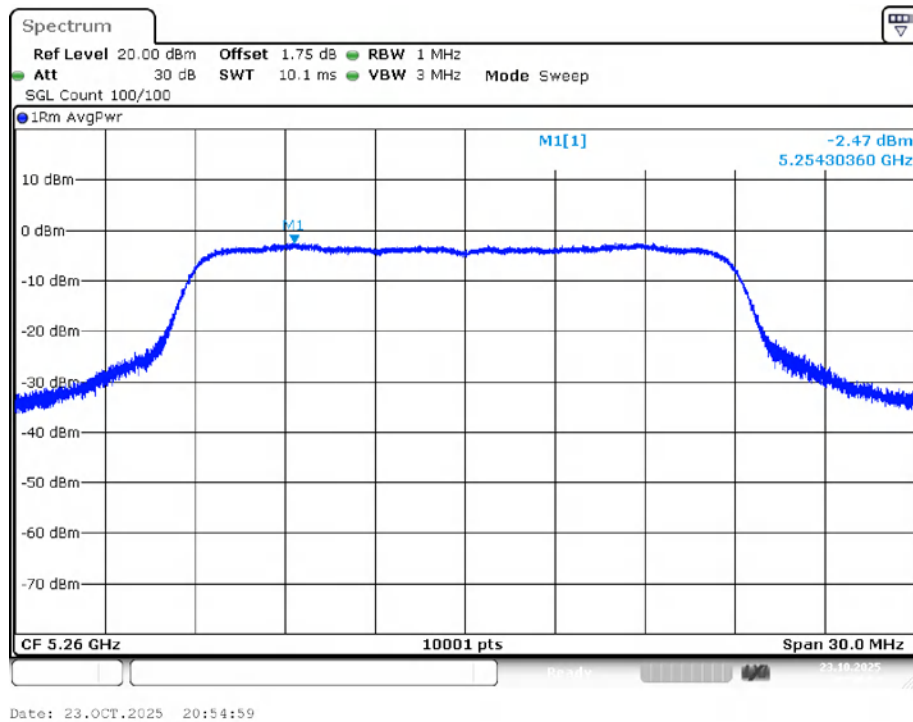
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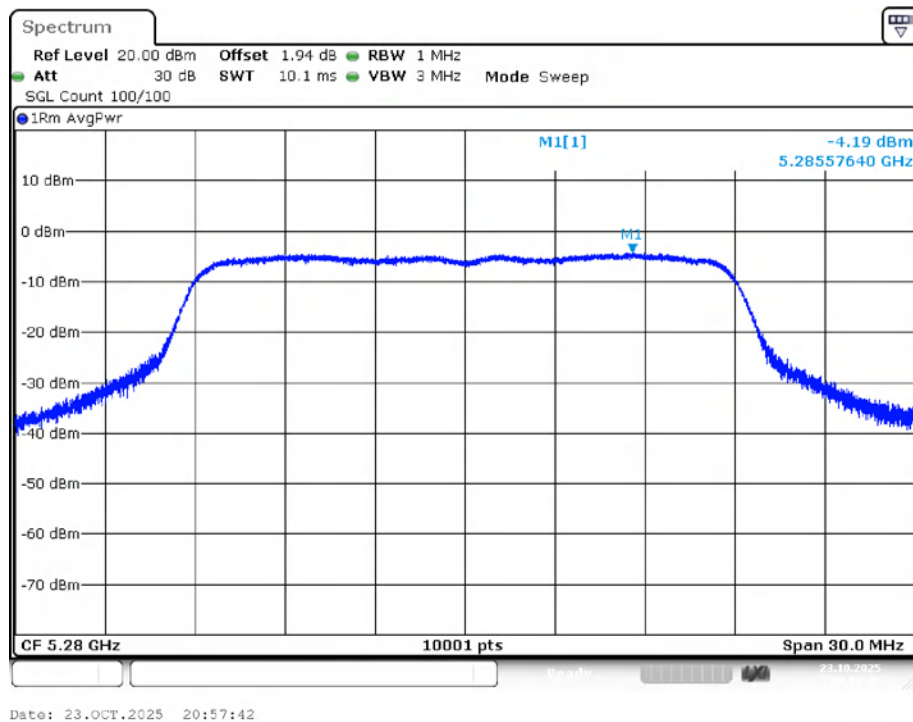
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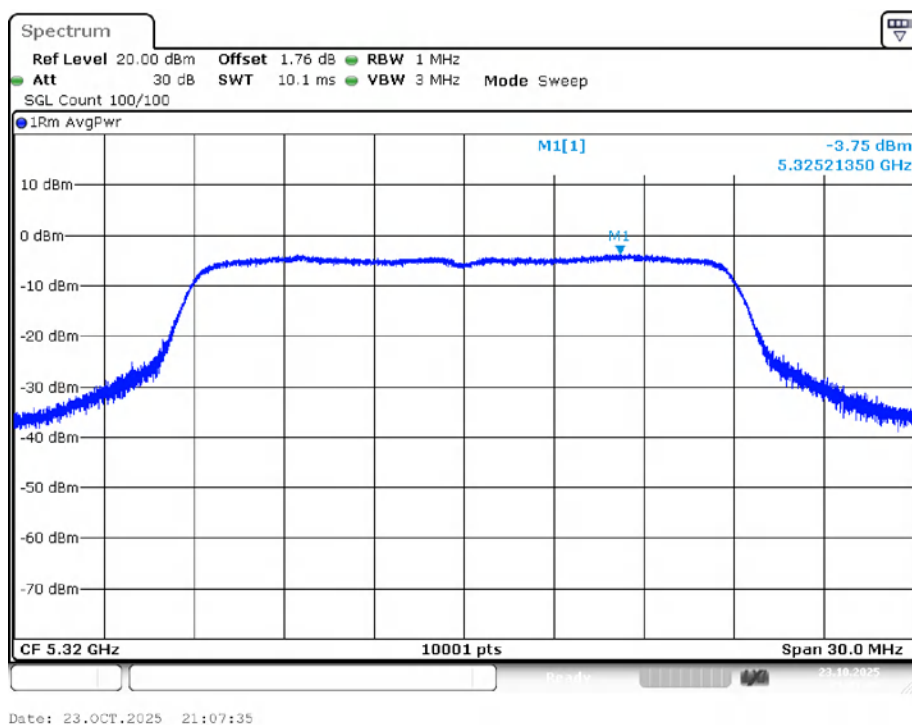
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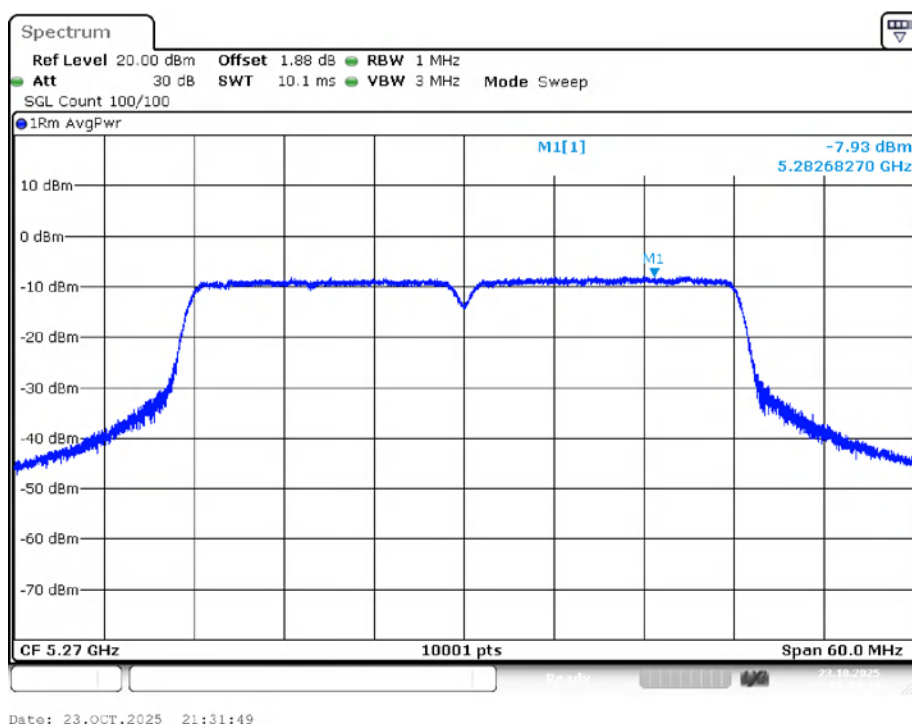
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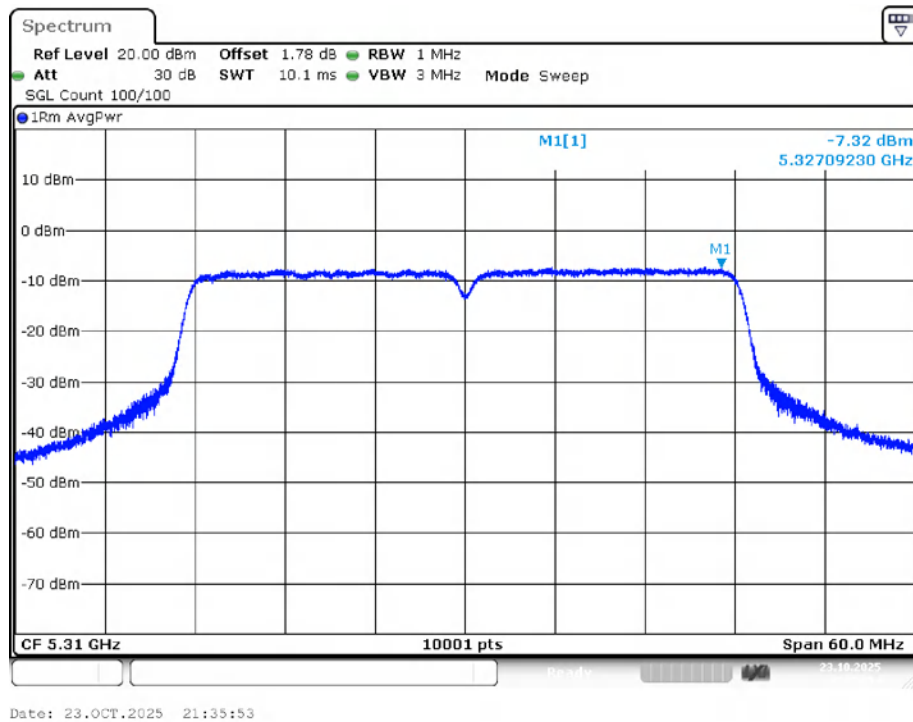
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PSD NVNT n20 5320MHz Ant1



PSD NVNT n40 5270MHz Ant1

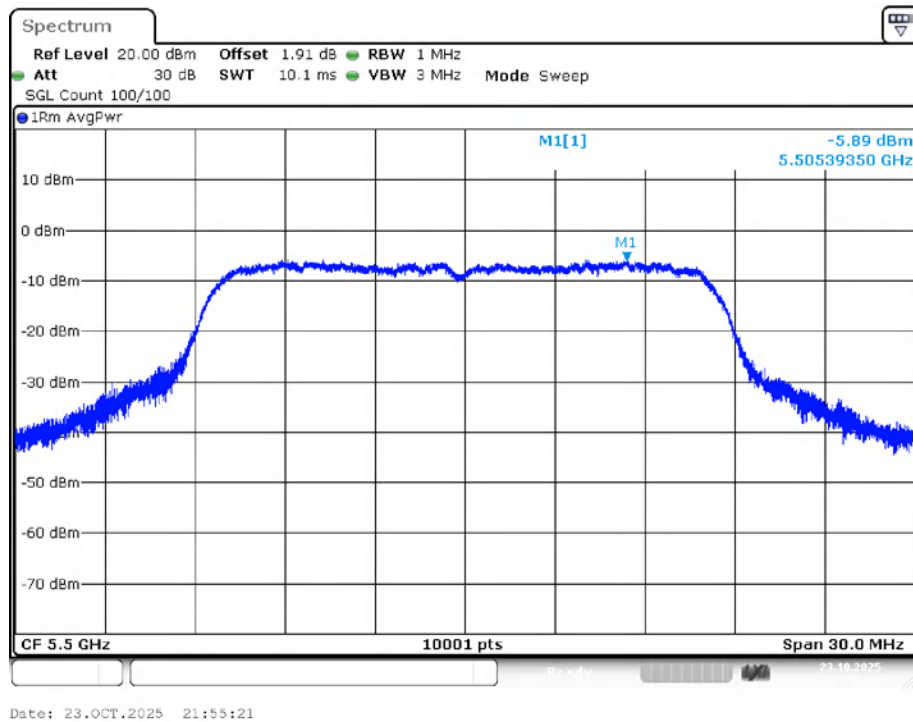


PSD NVNT n40 5310MHz Ant1

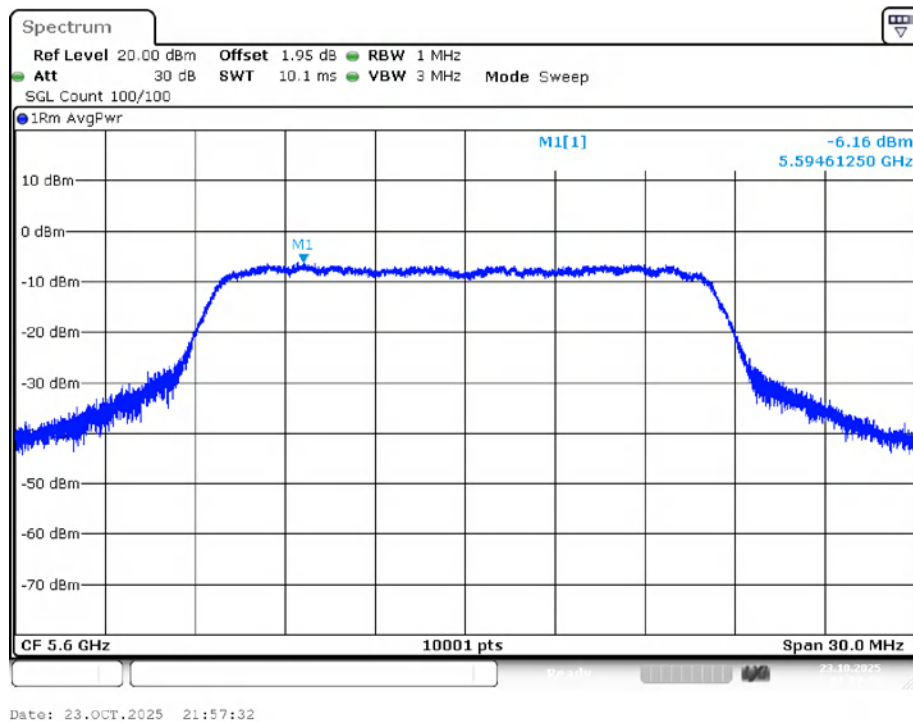
Band III

Mode	Frequency (MHz)	Duty Factor (dB)	Max PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
a	5500	1.41	-5.89	-4.48	11	Pass
a	5600	1.45	-6.162	-4.712	11	Pass
a	5700	1.4	-8.296	-6.896	11	Pass
ac20	5500	0.21	-2.22	-2.01	11	Pass
ac20	5600	0.79	-3.063	-2.273	11	Pass
ac20	5700	0.23	-5.327	-5.097	11	Pass
ac40	5510	0.65	-5.782	-5.132	11	Pass
ac40	5590	0.46	-6.415	-5.955	11	Pass
ac40	5670	0.79	-8.63	-7.84	11	Pass
ax20	5500	0.42	-2.405	-1.985	11	Pass
ax20	5600	0.82	-3.291	-2.471	11	Pass
ax20	5700	0.75	-5.457	-4.707	11	Pass
ax40	5510	0.57	-6.025	-5.455	11	Pass
ax40	5590	0.55	-6.553	-6.003	11	Pass
ax40	5670	0.98	-8.539	-7.559	11	Pass
n20	5500	0.24	-1.976	-1.736	11	Pass
n20	5600	0.68	-2.94	-2.26	11	Pass
n20	5700	0.35	-5.28	-4.93	11	Pass
n40	5510	0.42	-5.773	-5.353	11	Pass
n40	5590	0.47	-6.363	-5.893	11	Pass
n40	5670	0.67	-8.529	-7.859	11	Pass

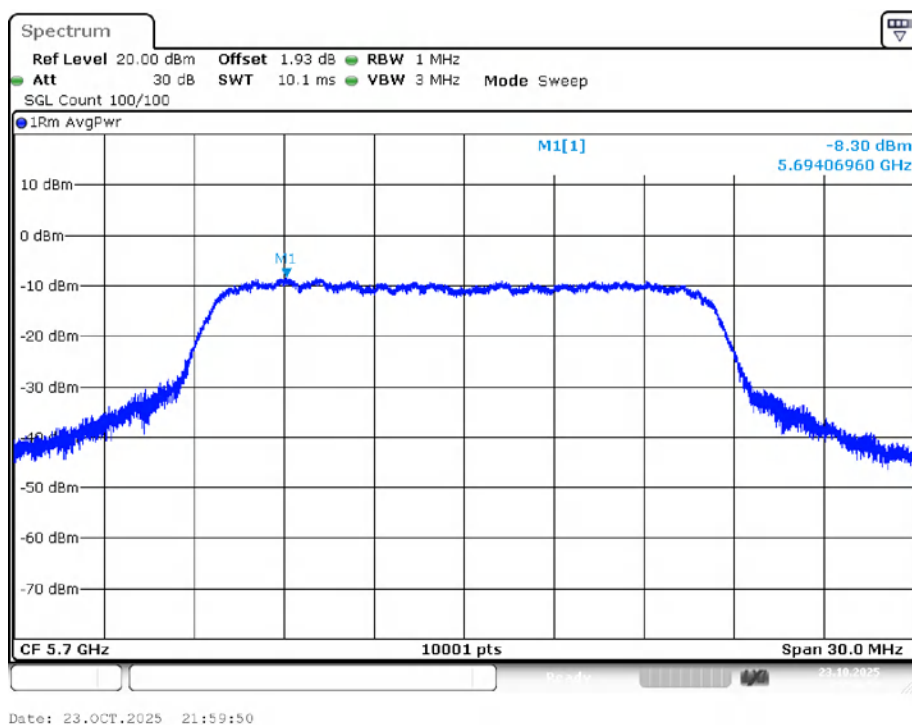
Note: Total PSD (dBm/MHz) = Duty Factor (dB) + Max PSD (dBm/MHz)



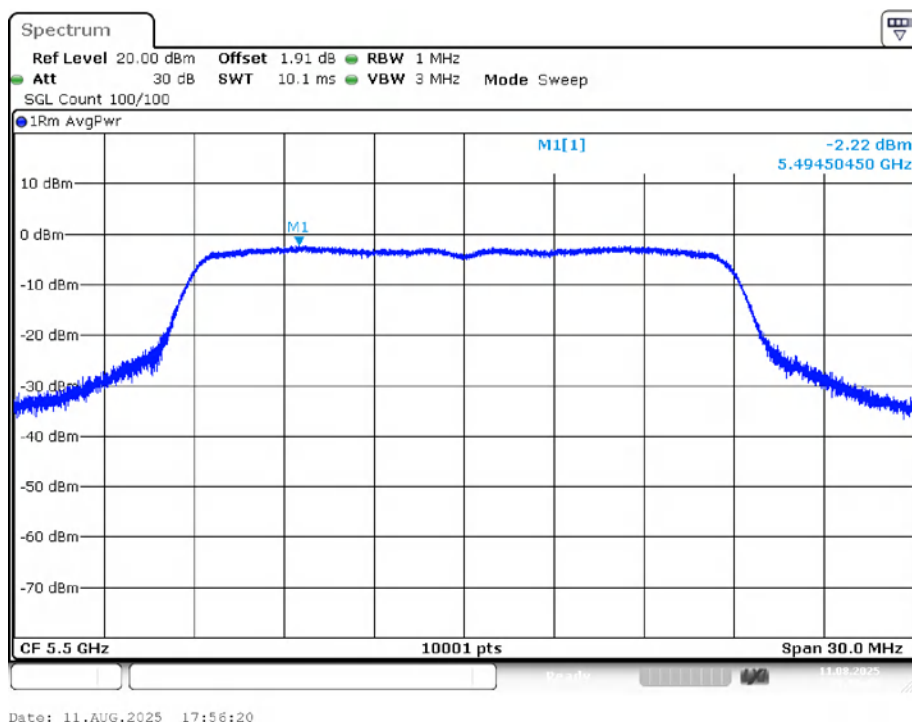
PSD NVNT a 5500MHz Ant1



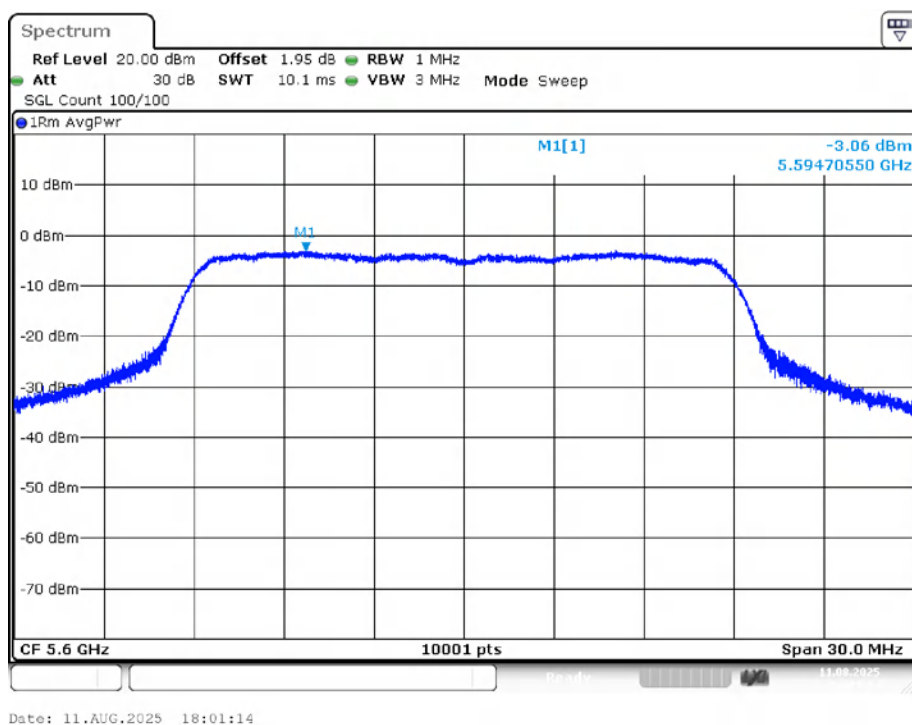
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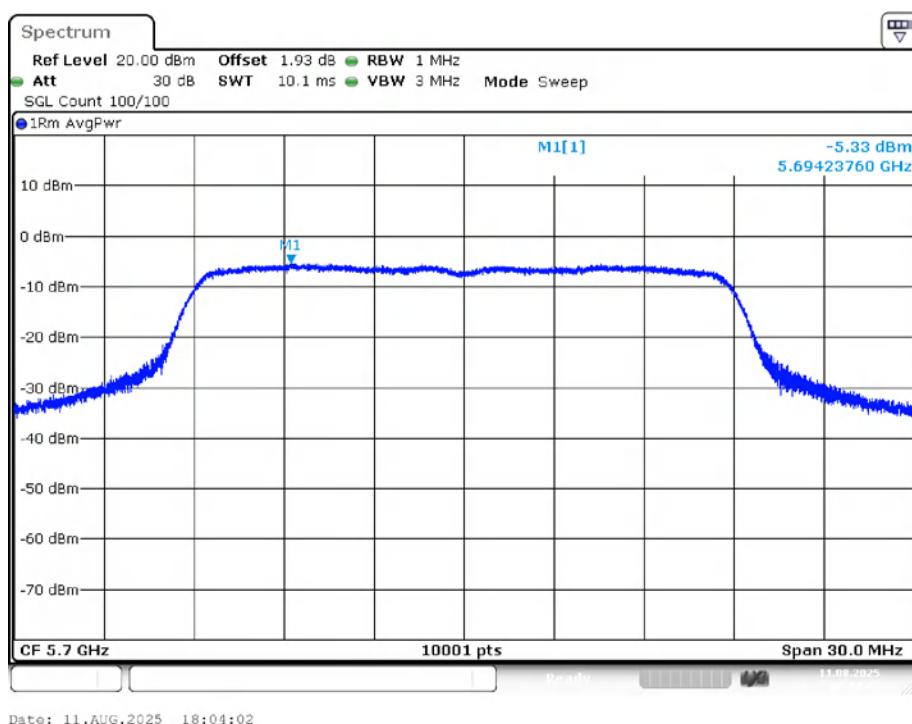
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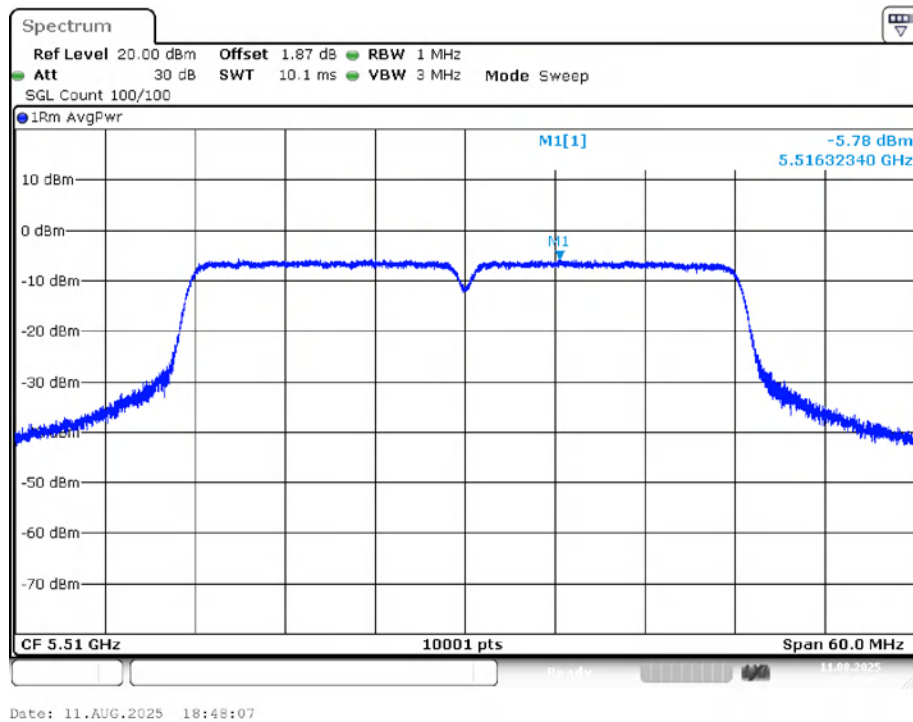
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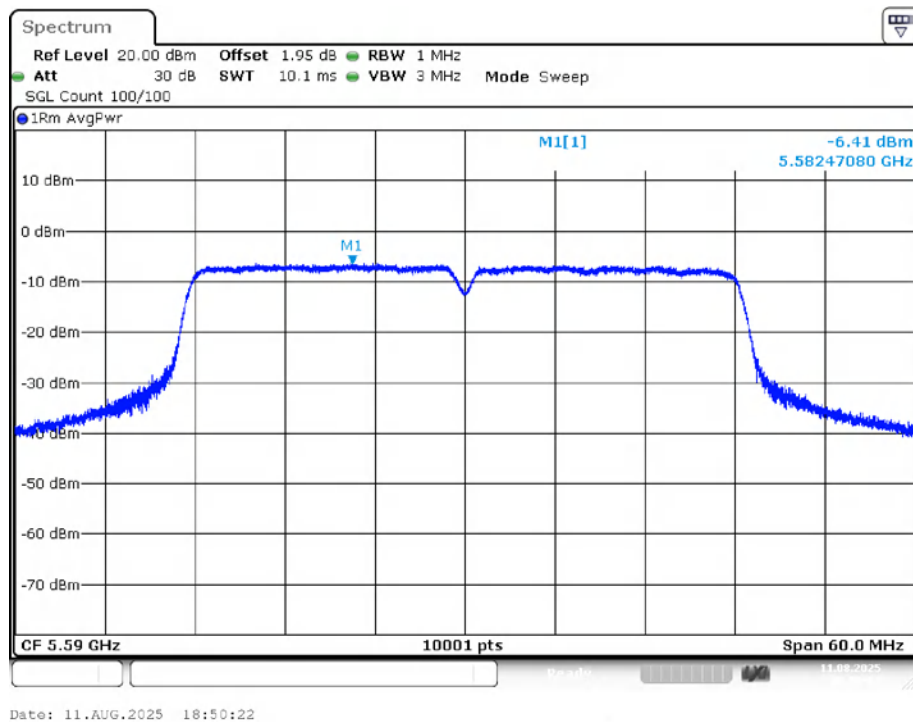
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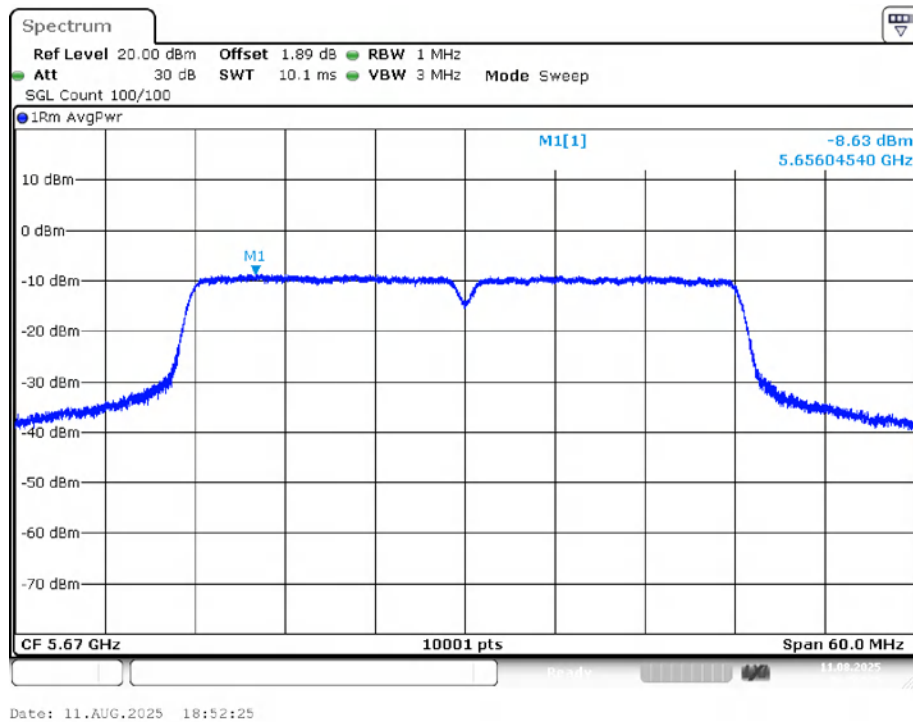
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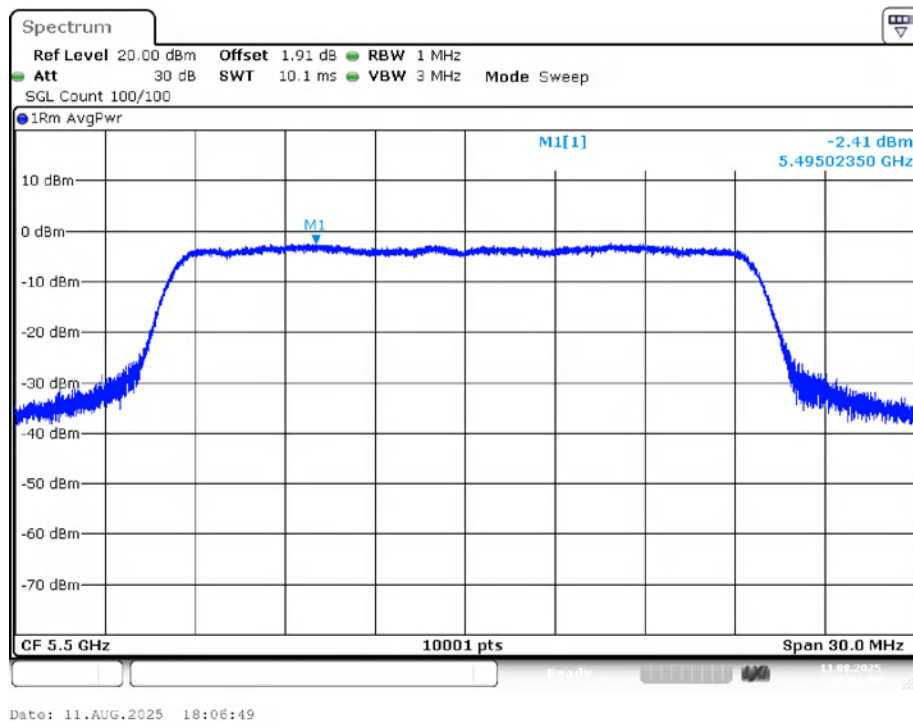
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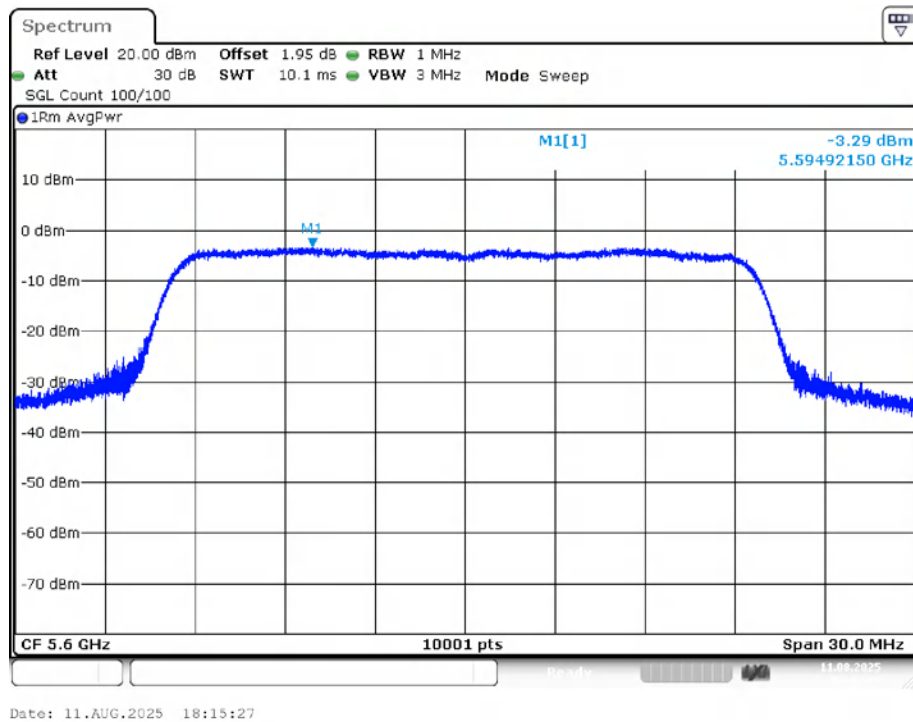
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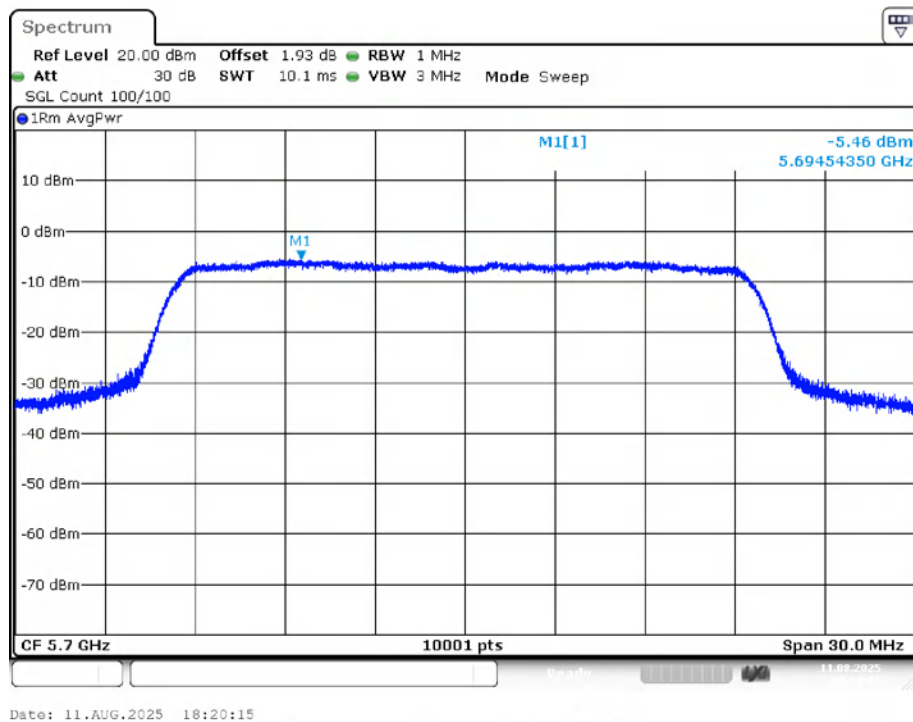
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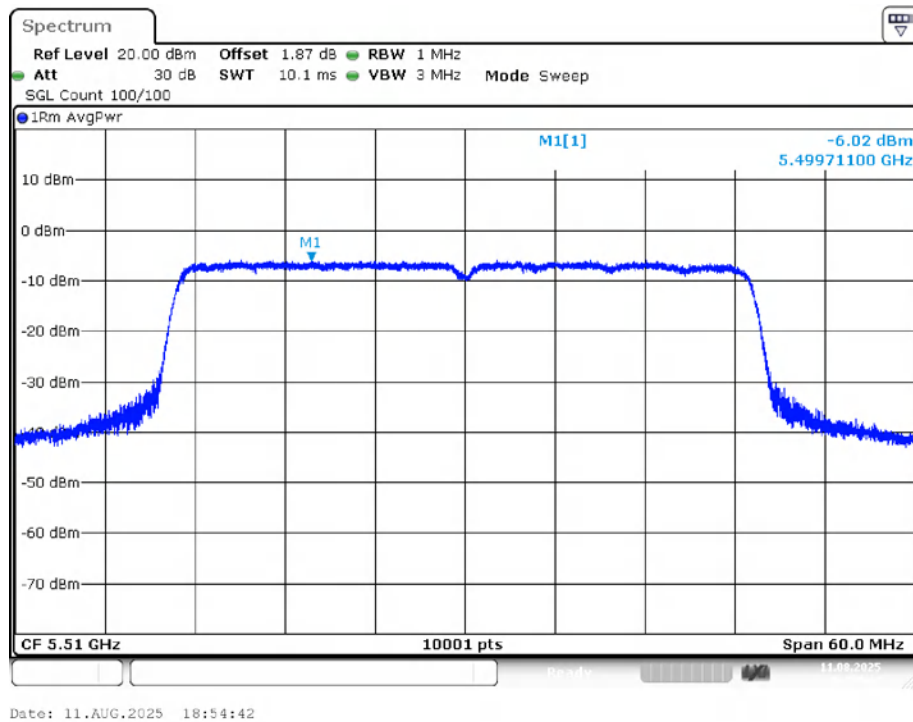
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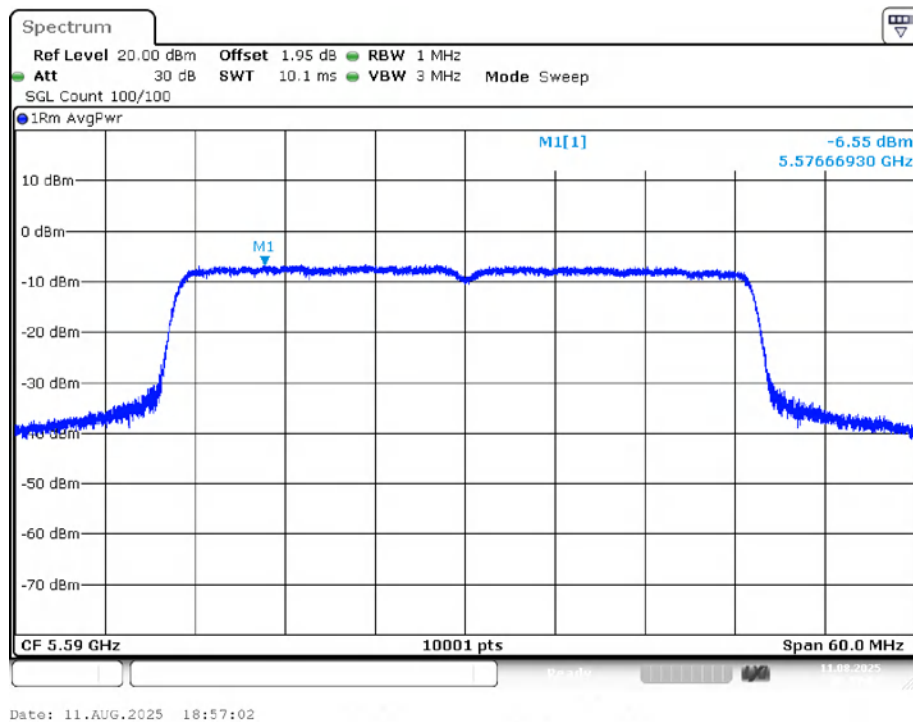
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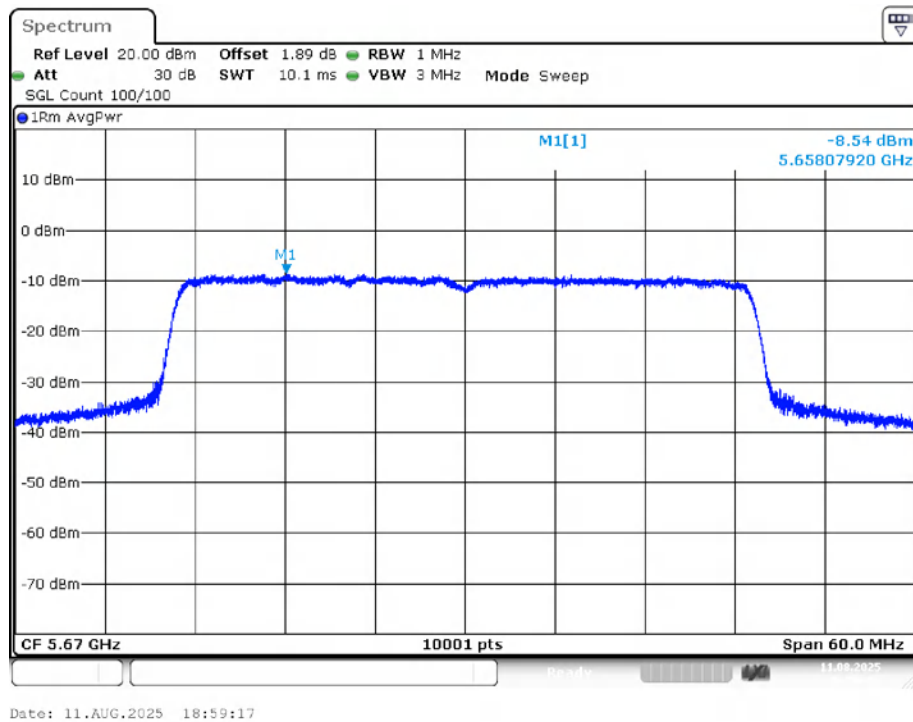
PSD NVNT ax20 5700MHz Ant1



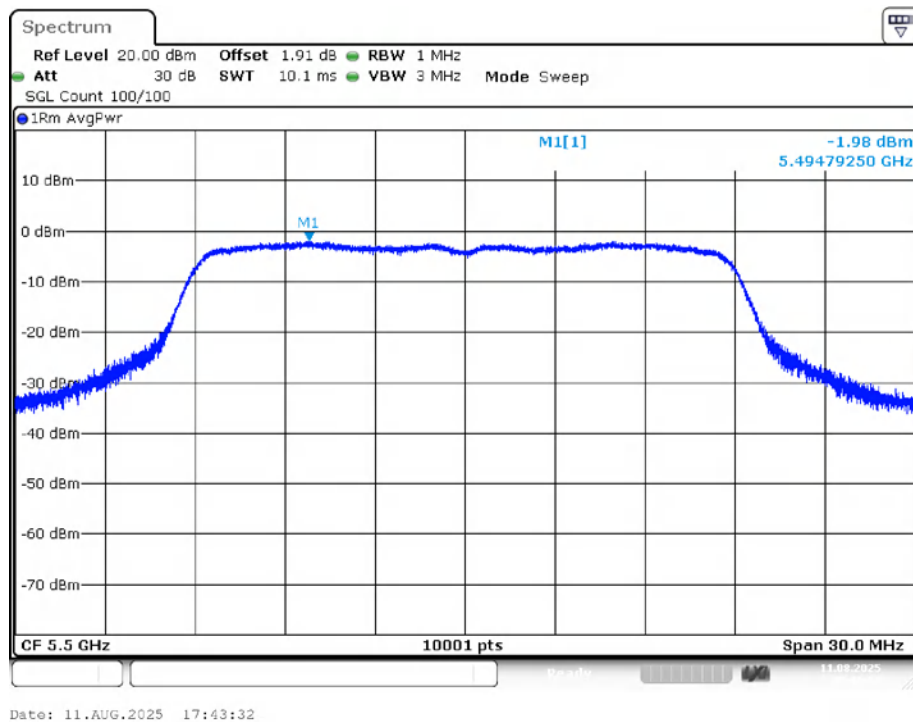
PSD NVNT ax40 5510MHz Ant1



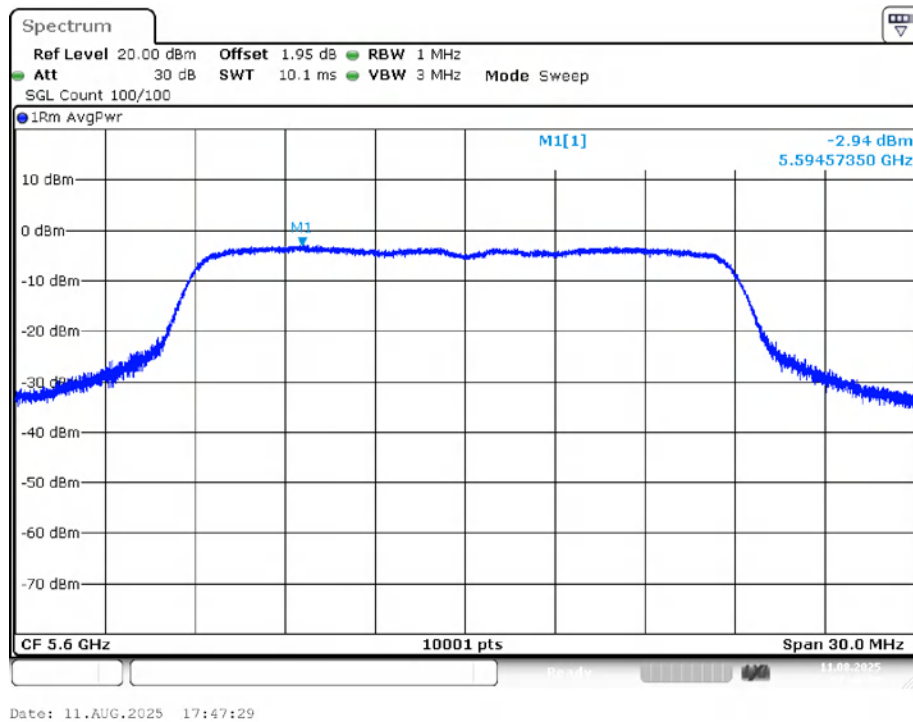
PSD NVNT ax40 5590MHz Ant1



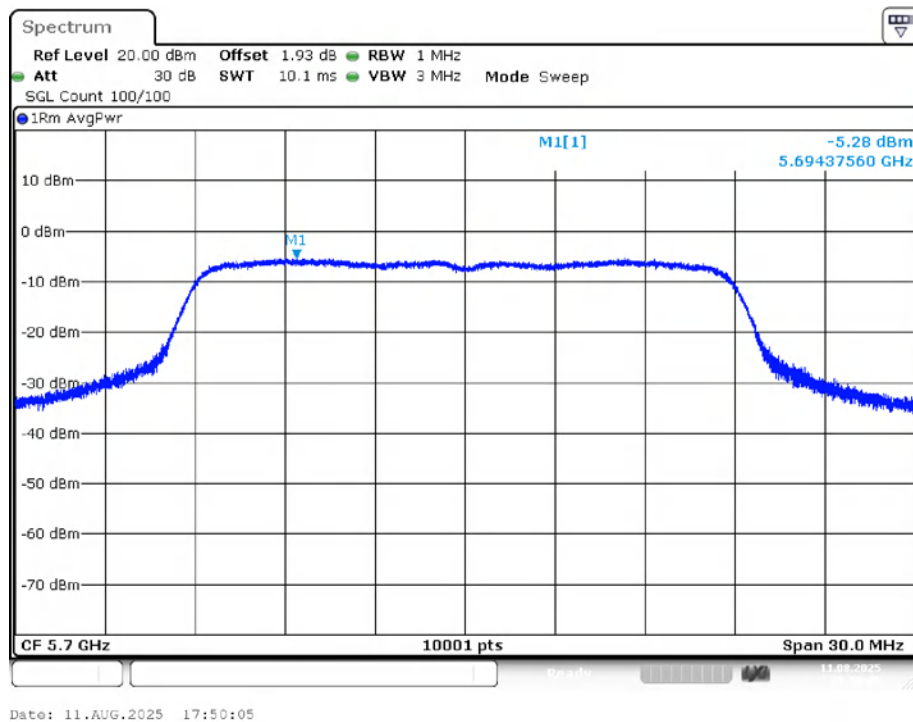
PSD NVNT ax40 5670MHz Ant1



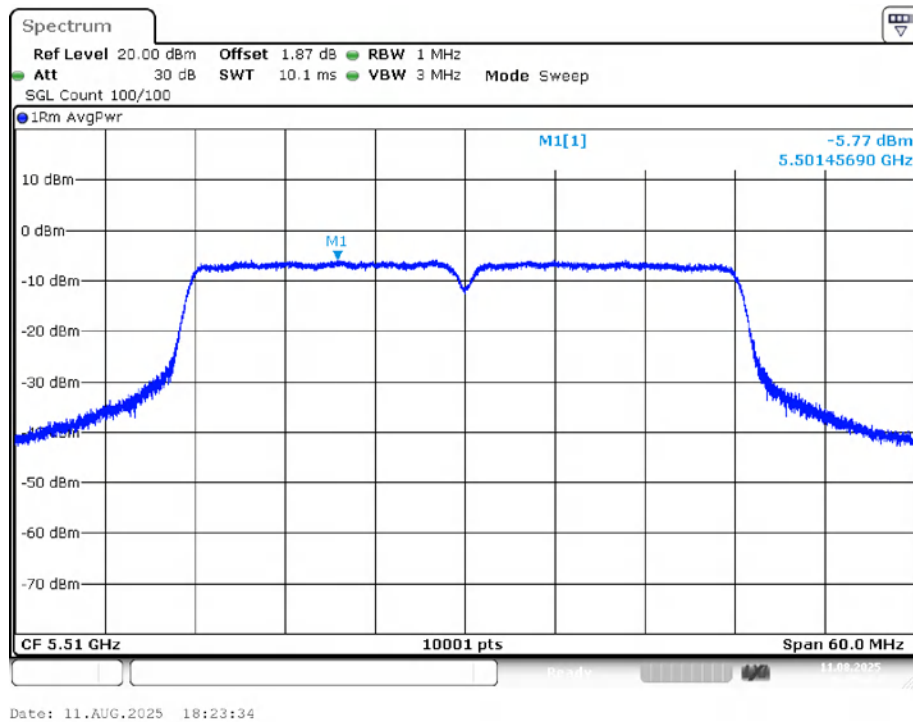
PSD NVNT n20 5500MHz Ant1



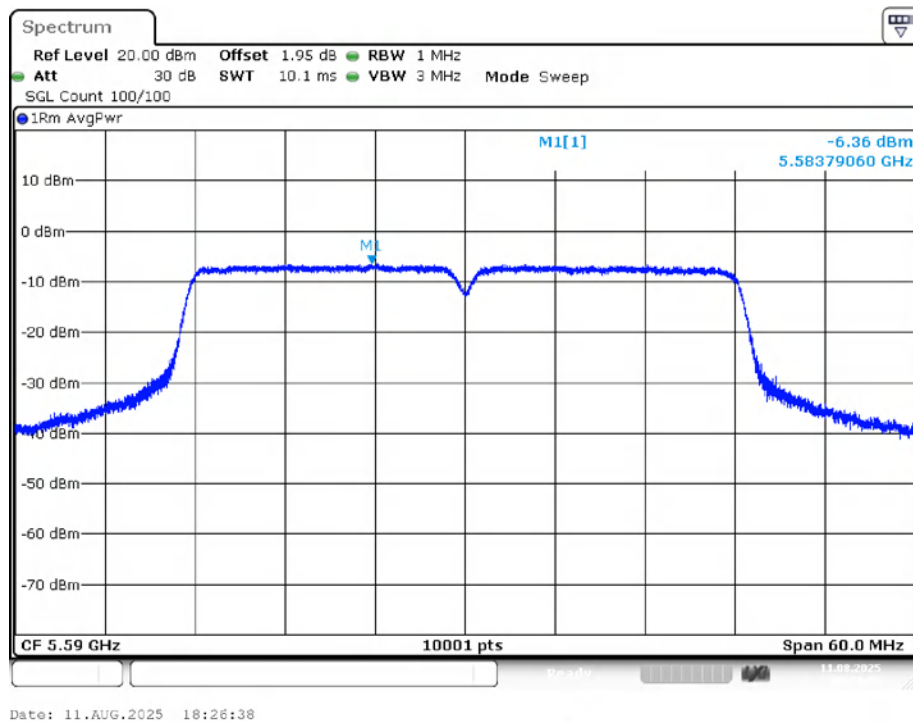
PSD NVNT n20 5600MHz Ant1



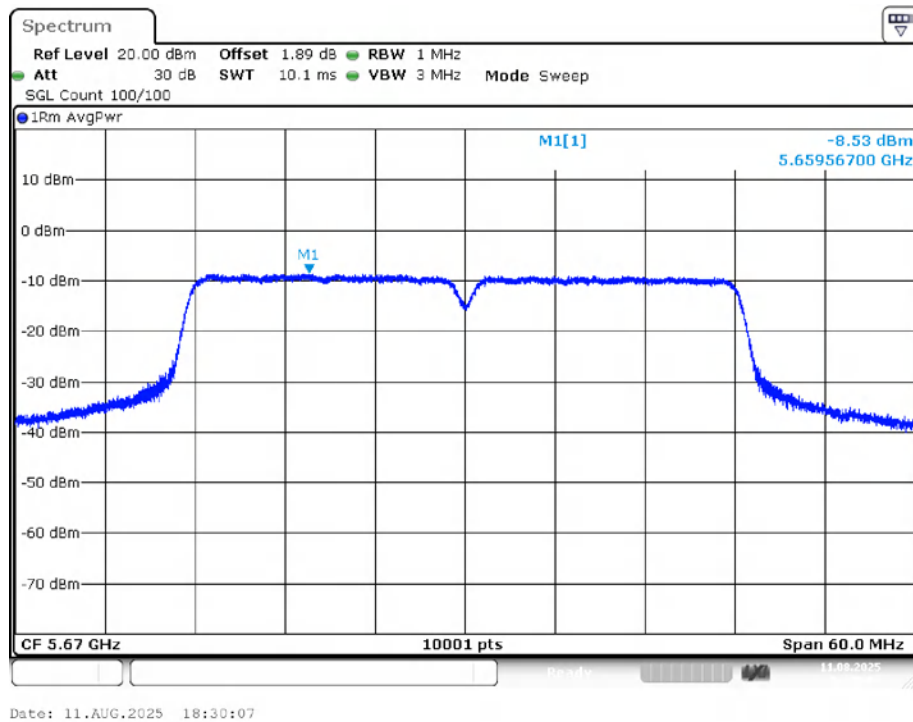
PSD NVNT n20 5700MHz Ant1



PSD NVNT n40 5510MHz Ant1



PSD NVNT n40 5590MHz Ant1

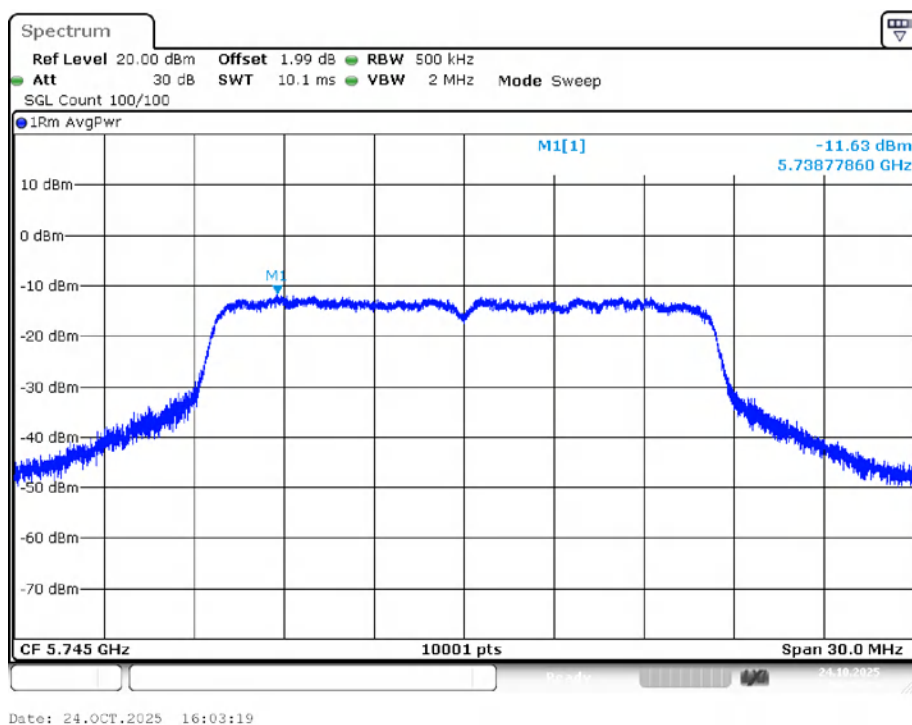


PSD NVNT n40 5670MHz Ant1

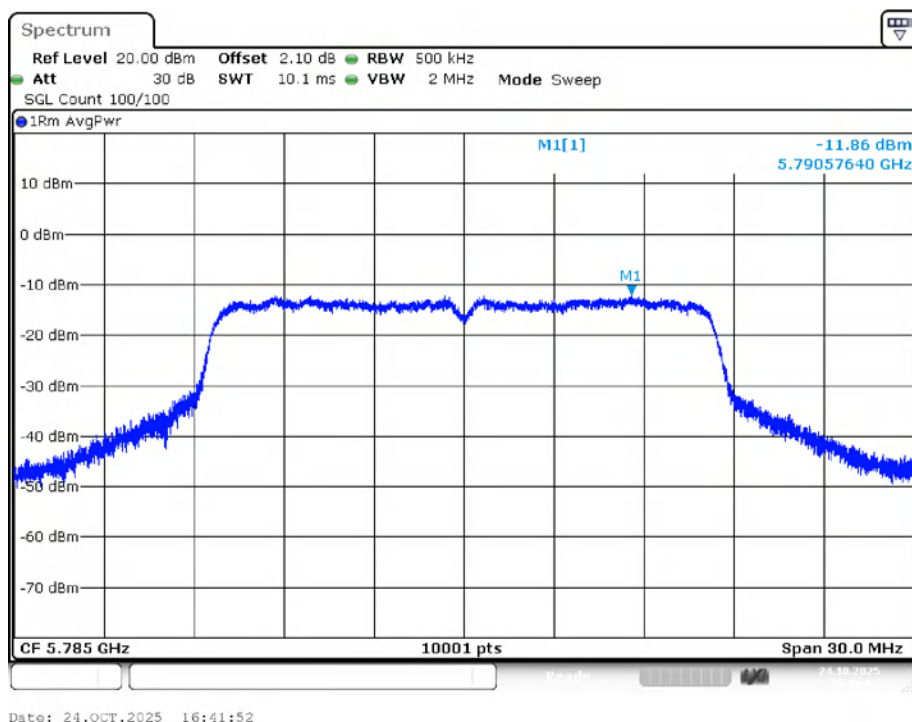
Band IV

Mode	Frequency (MHz)	Duty Factor (dB)	Max PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
a	5745	1.47	-11.631	-10.161	30	Pass
a	5785	1.72	-11.861	-10.141	30	Pass
a	5825	1.45	-11.616	-10.166	30	Pass
ac20	5745	0.25	-10.508	-10.258	30	Pass
ac20	5785	0.69	-11.319	-10.629	30	Pass
ac20	5825	0.81	-12.726	-11.916	30	Pass
ac40	5755	0.92	-14.309	-13.389	30	Pass
ac40	5795	1.07	-15.243	-14.173	30	Pass
ax20	5745	0.29	-10.889	-10.599	30	Pass
ax20	5785	0.3	-11.64	-11.34	30	Pass
ax20	5825	0.28	-12.992	-12.712	30	Pass
ax40	5755	0.45	-14.45	-14	30	Pass
ax40	5795	0.95	-15.111	-14.161	30	Pass
n20	5745	0.21	-10.43	-10.22	30	Pass
n20	5785	0.73	-11.106	-10.376	30	Pass
n20	5825	0.21	-12.388	-12.178	30	Pass
n40	5755	0.45	-13.951	-13.501	30	Pass
n40	5795	0.69	-14.646	-13.956	30	Pass

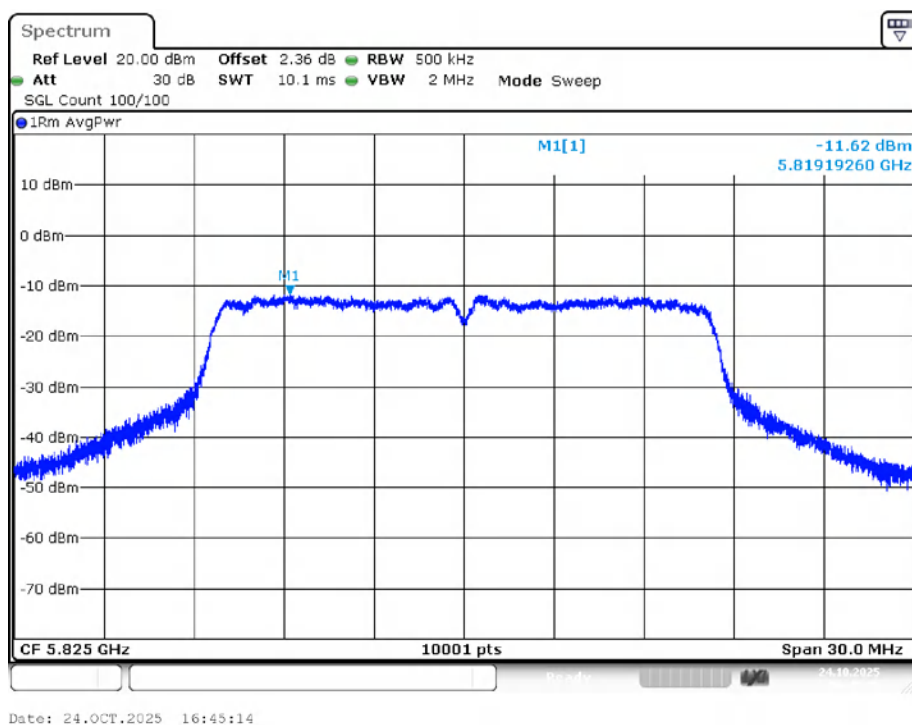
Note: Total PSD (dBm/MHz) = Duty Factor (dB)+ Max PSD (dBm/MHz)



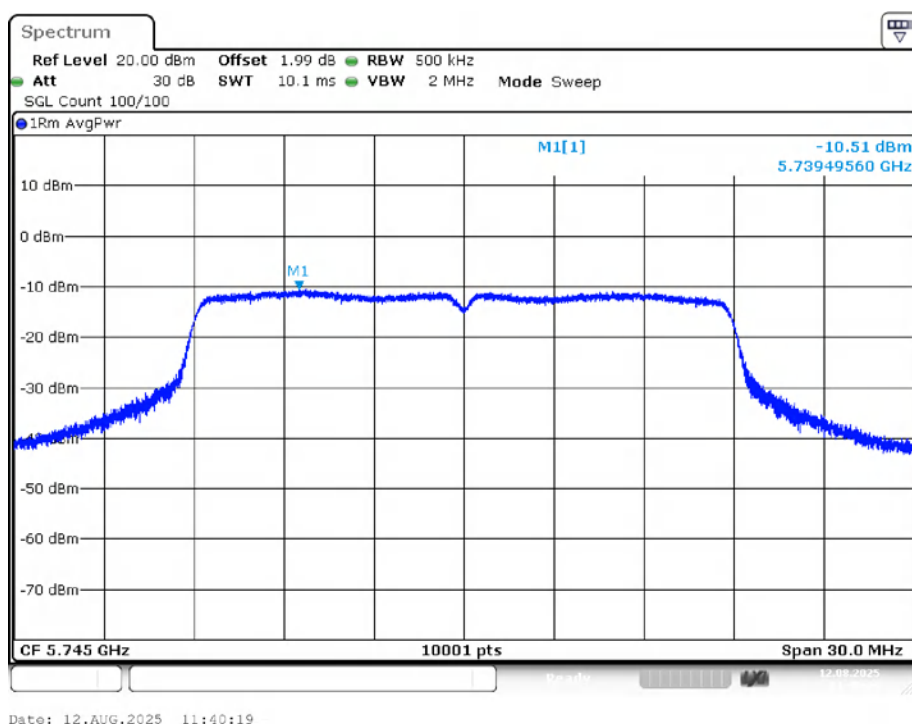
PSD NVNT a 5745MHz Ant1



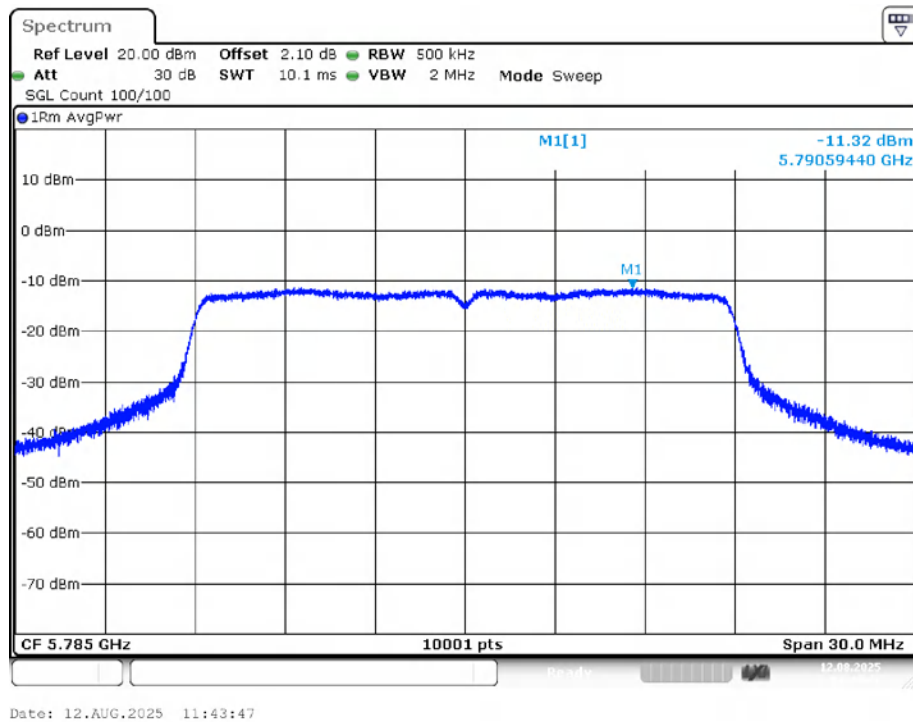
PSD NVNT a 5785MHz Ant1



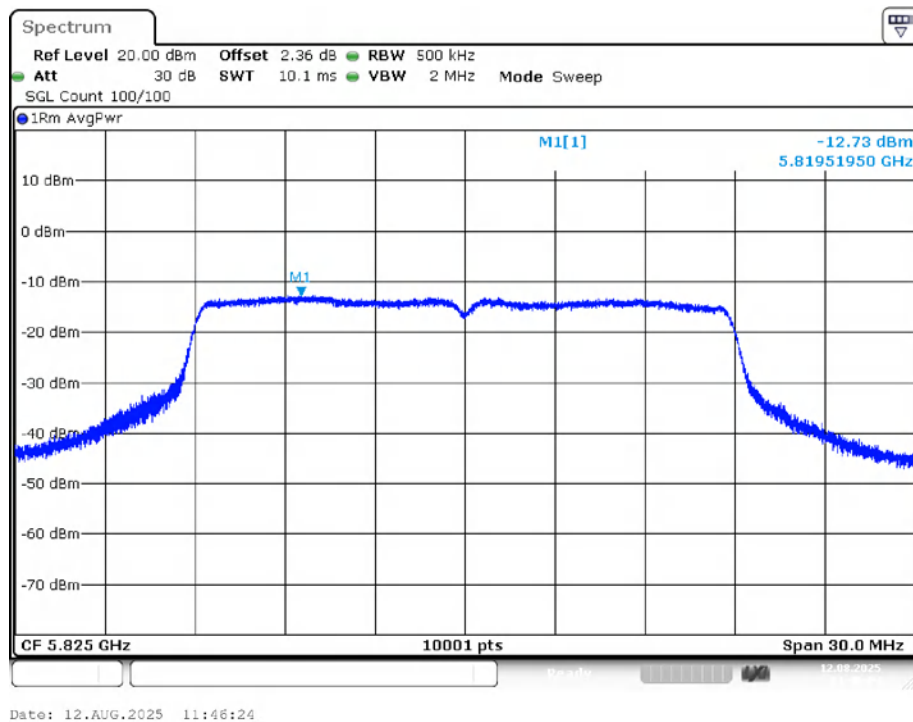
PSD NVNT a 5825MHz Ant1



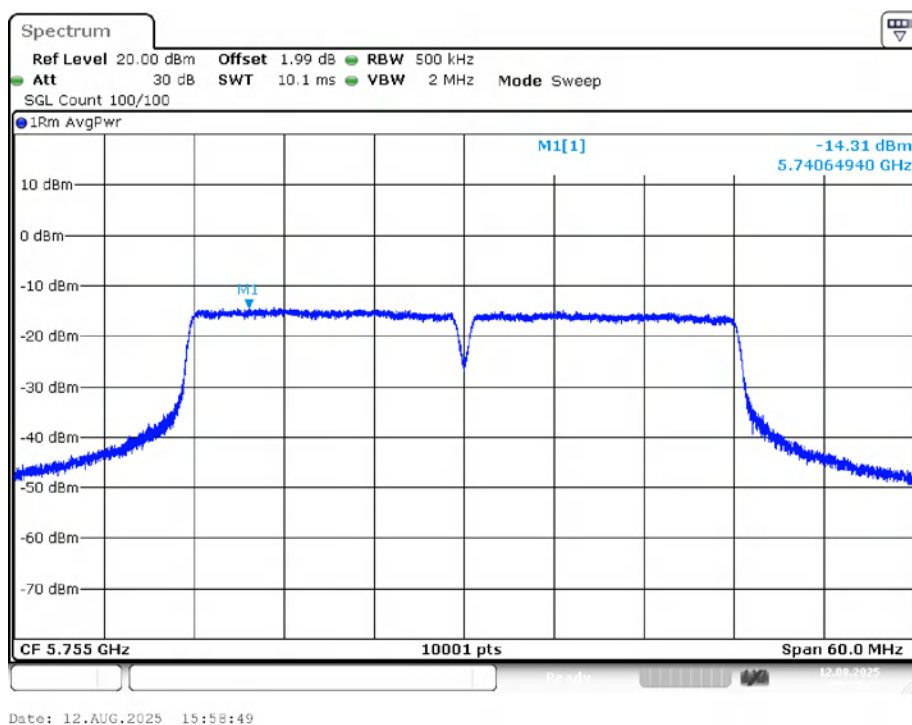
PSD NVNT ac20 5745MHz Ant1



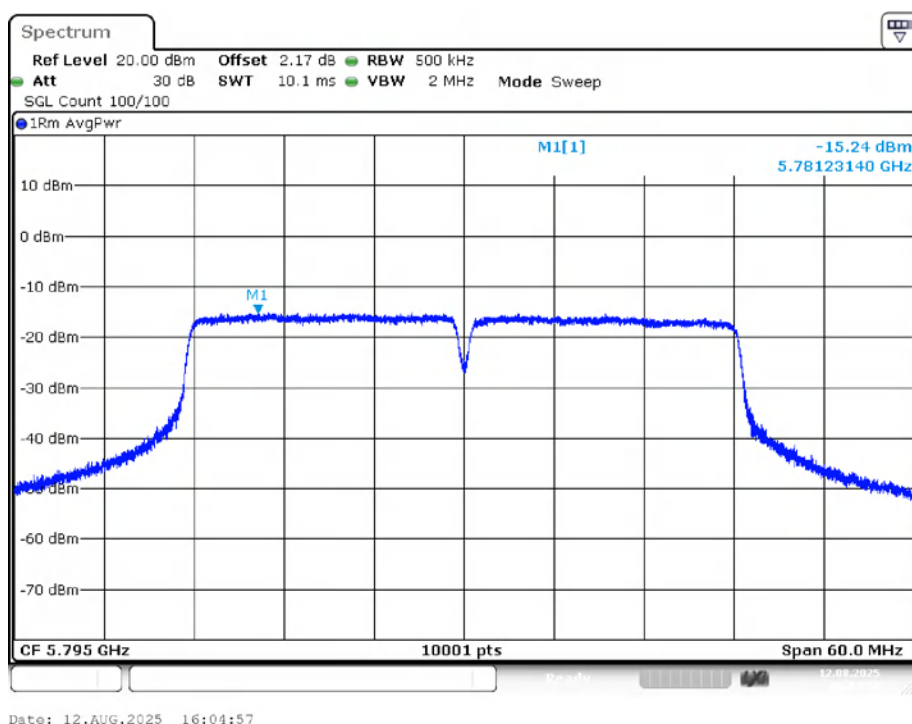
PSD NVNT ac20 5785MHz Ant1



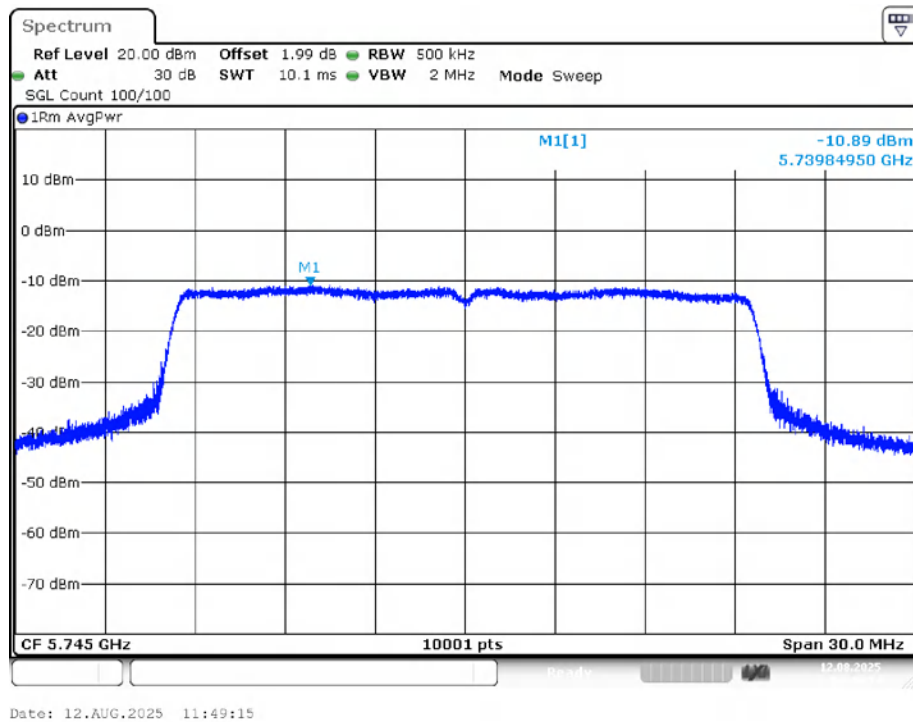
PSD NVNT ac20 5825MHz Ant1



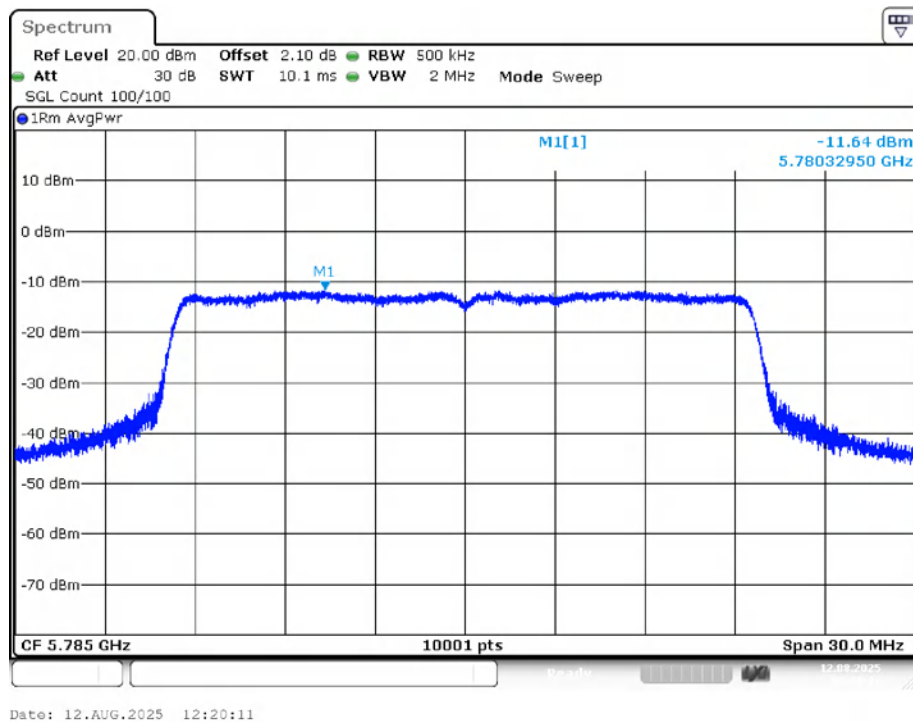
PSD NVNT ac40 5755MHz Ant1



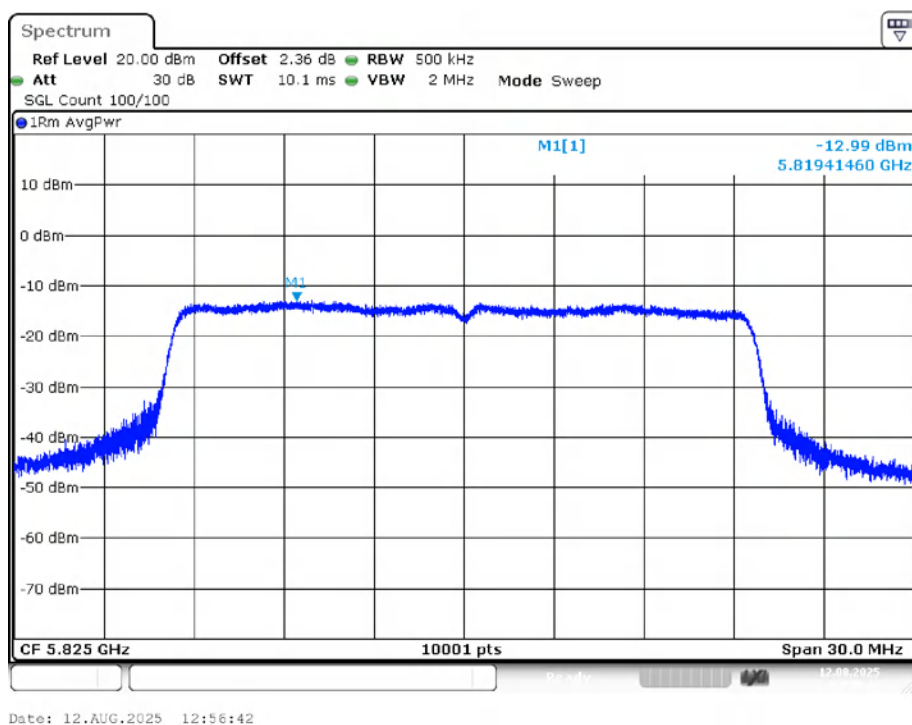
PSD NVNT ac40 5795MHz Ant1



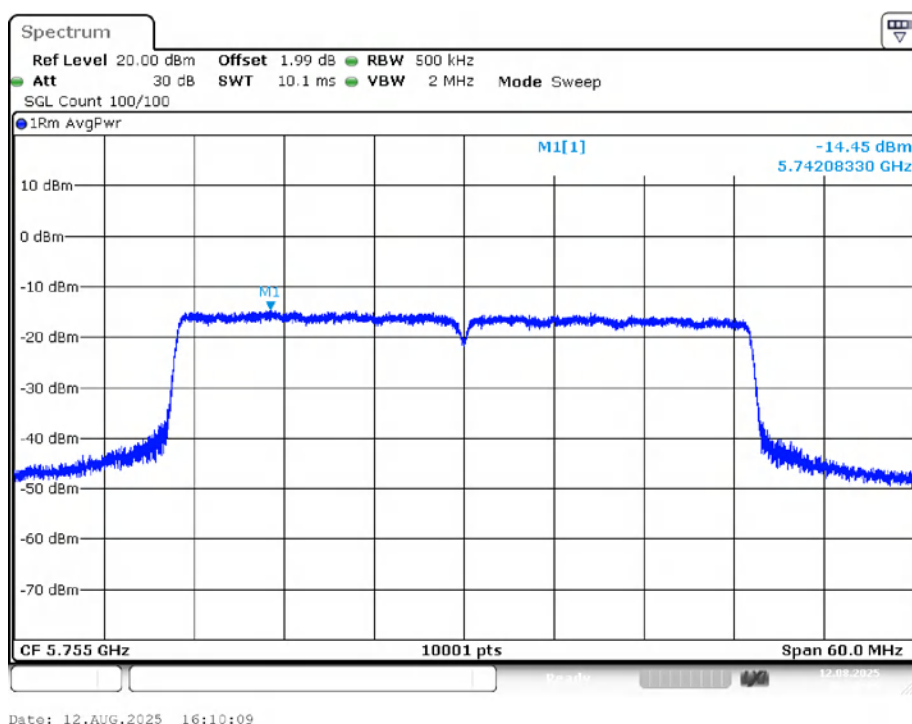
PSD NVNT ax20 5745MHz Ant1



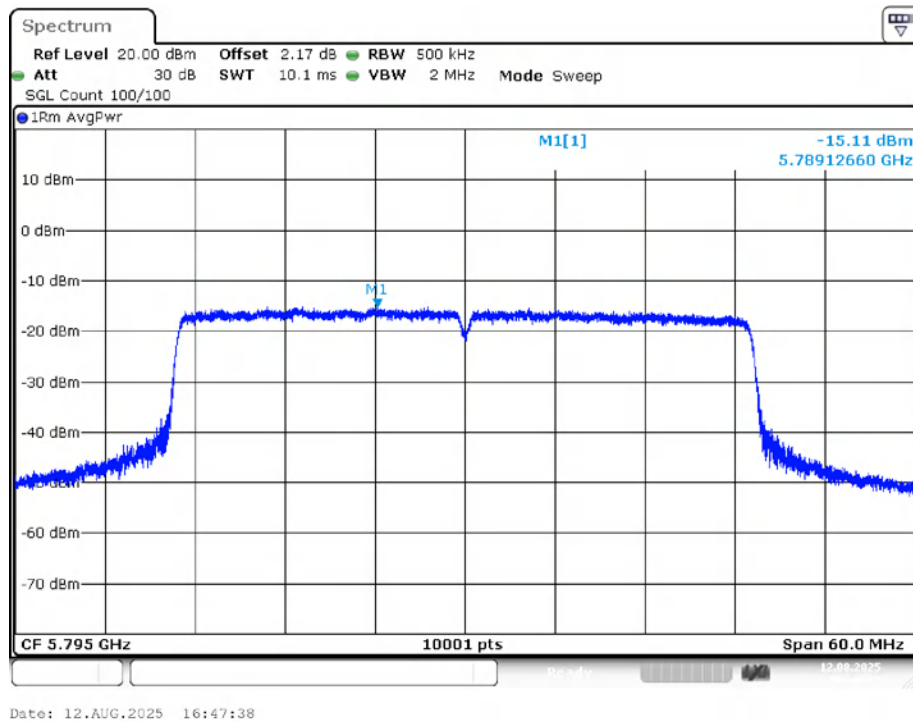
PSD NVNT ax20 5785MHz Ant1



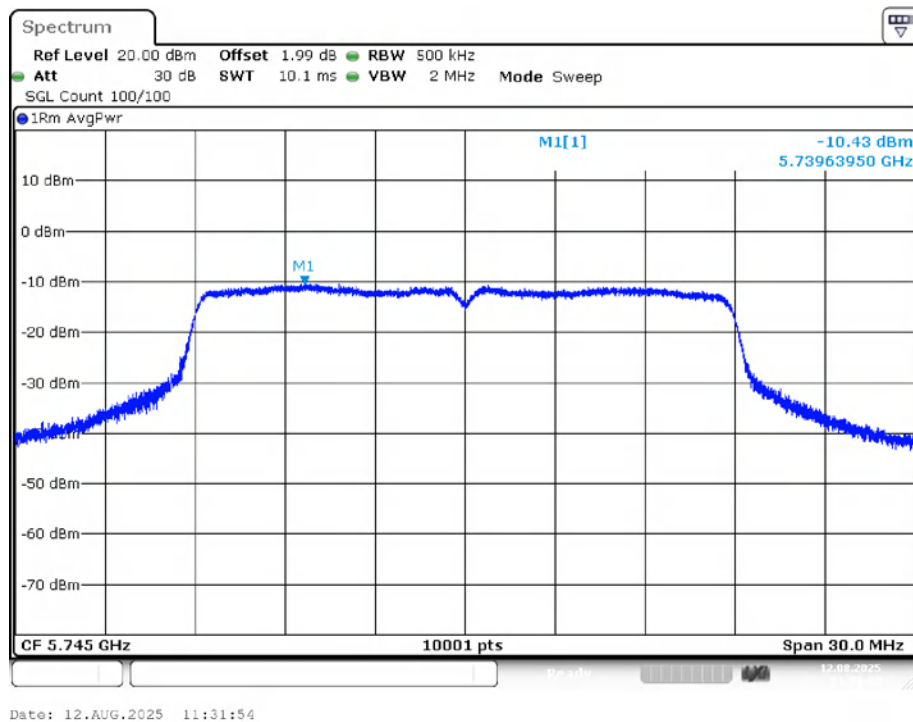
PSD NVNT ax20 5825MHz Ant1



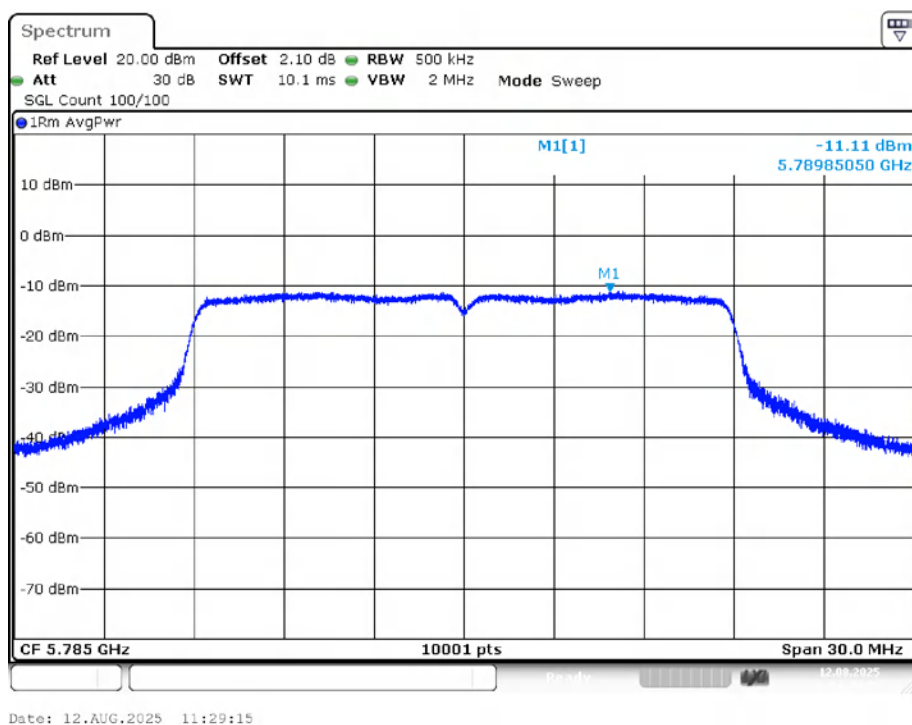
PSD NVNT ax40 5755MHz Ant1



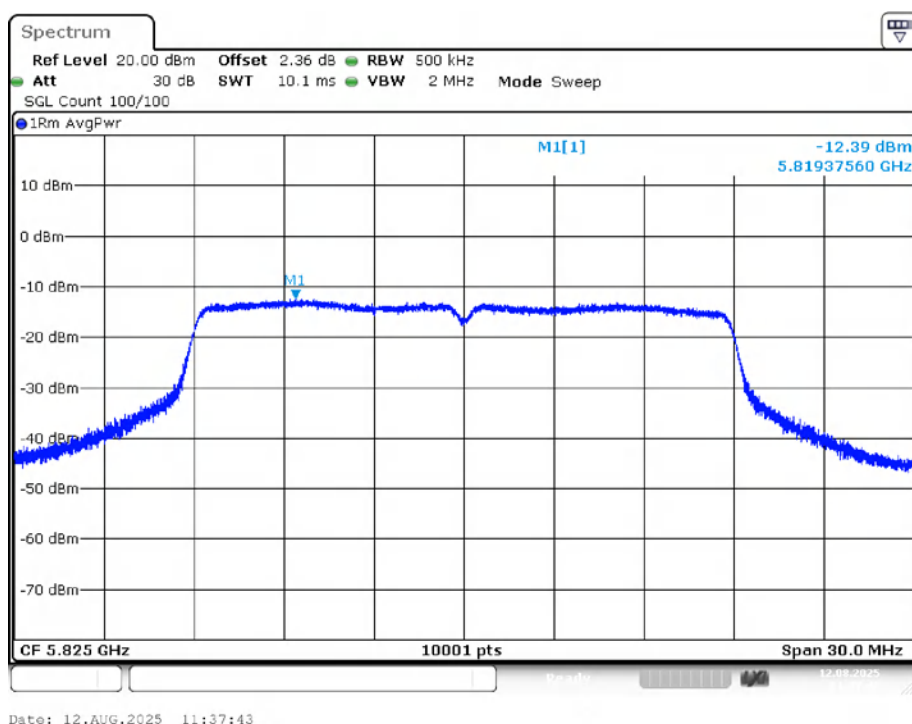
PSD NVNT ax40 5795MHz Ant1



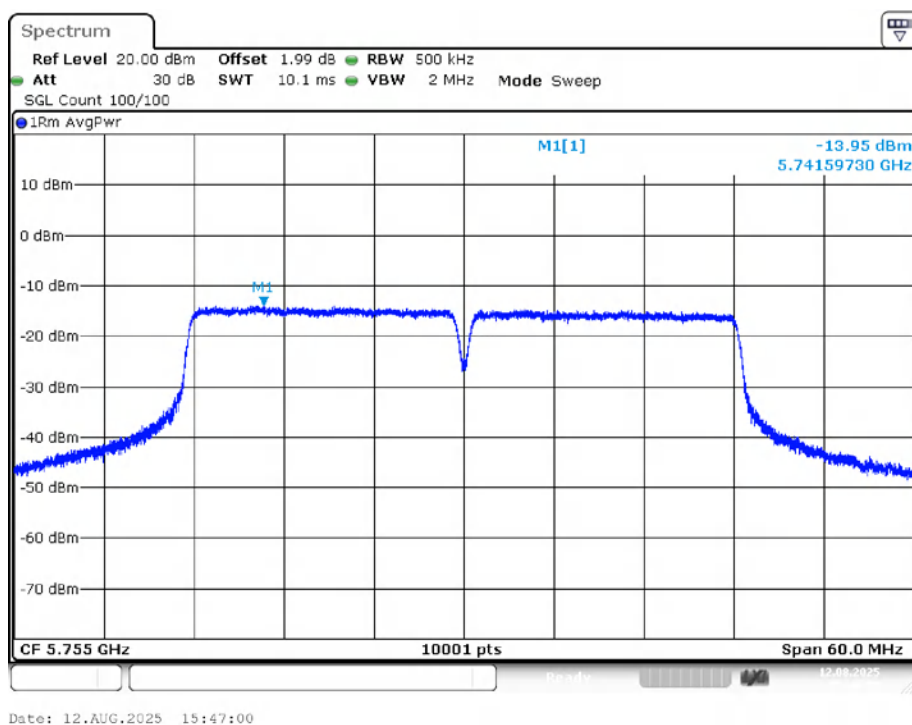
PSD NVNT n20 5745MHz Ant1



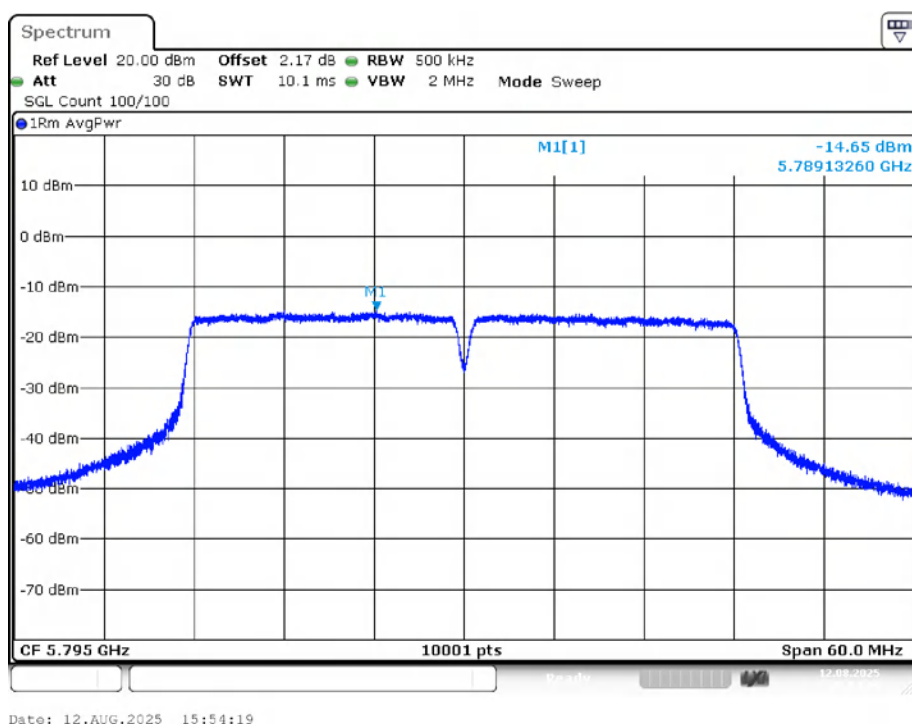
PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1

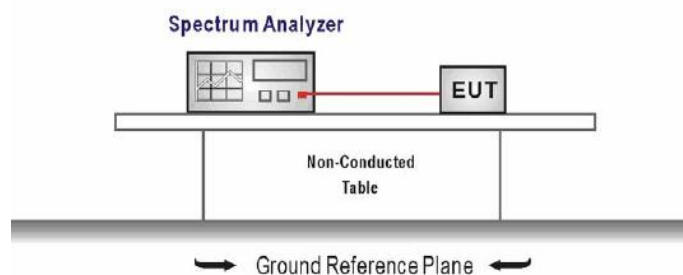
Test Result: The unit does meet the FCC requirements.

5.5. -26dB&-6 bandwidth and 99% Occupied bandwidth

LIMIT

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in KDB 789033 D02 , and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

TEST CONFIGURATION



TEST PROCEDURE

1. The testing follows the KDB 789033 D02 v02r01 Section I.C.D and ANSI C63.10:2020 Section 11.8 and 6.9.3.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Use the spectrum analyzer "Channel Bandwidth" functions to measurement the 26dB EBW, 6dB EBW and 99% OBW.
4. Set center frequency to the nominal EUT channel center frequency.
5. Set span = 1.5 times to 5.0 times the OBW or EBW.
6. For 26dB EBW and 99% OBW Measurement: Set RBW = approximately 1% EBW or 1.5 times to 5.0 times the OBW, $VBW \geq 3 \times RBW$.
7. For 6dB EBW Measurement: Set RBW=100KHz. $VBW > 3 \times RBW$.
8. Set Detector = Peak, Trace mode = max hold and Sweep time = auto couple.
9. Allow the trace to stabilize.
10. Replace the EUT center frequency and repeat steps 3~9.

TEST MODE:

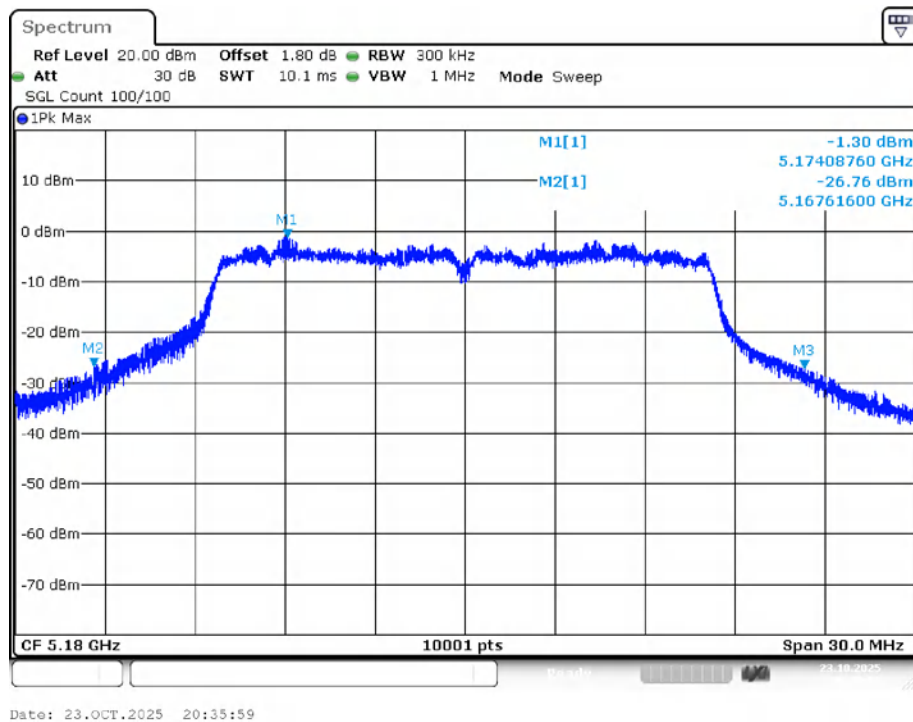
Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

-26dB Bandwidth
Band I

Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	23.715	0.5	Pass
a	5200	24.018	0.5	Pass
a	5240	23.79	0.5	Pass
ac20	5180	26.913	0.5	Pass
ac20	5200	27.729	0.5	Pass
ac20	5240	27.183	0.5	Pass
ac40	5190	46.566	0.5	Pass
ac40	5230	46.854	0.5	Pass
ax20	5180	25.365	0.5	Pass
ax20	5200	25.578	0.5	Pass
ax20	5240	25.626	0.5	Pass
ax40	5190	44.52	0.5	Pass
ax40	5230	44.64	0.5	Pass
n20	5180	26.445	0.5	Pass
n20	5200	28.065	0.5	Pass
n20	5240	26.139	0.5	Pass
n40	5190	47.538	0.5	Pass
n40	5230	46.824	0.5	Pass



-26dB Bandwidth NVNT a 5180MHz Ant1