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Test Report

Report No.: CQASZ20250300547E-01
Applicant: Winstars Technology Limited
Address of Applicant: 1-5F, NO.5, Taisong Industrial Zone, Dalang Community, Dalang Street, Longhua District, Shenzhen, China
Equipment Under Test (EUT):
Product: Wireless AP/Repeater
Model No.: WS-WN573HX3, WL-WN573HX3, WS-WN573HX1, WL-WN573HX1, AERIAL HD6, AERIAL HD9
Test Model No.: WS-WN573HX3
Brand Name: N/A
FCC ID: NZ3-WN0007
Standards: 47 CFR Part 15, Subpart E
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01
Date of Receipt: 2025-03-17
Date of Test: 2025-03-17 to 2025-05-26
Date of Issue: 2025-05-30
Test Result: **PASS***

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

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Timo Lei

(Timo Lei)

Approved By:

Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250300547E-01	Rev.01	Initial report	2025-05-30

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013; KDB789033	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.207	ANSI C63.10-2013; KDB789033	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.407 (a)	ANSI C63.10-2013; KDB789033	PASS
Emission Bandwidth	47 CFR Part 15 Subpart C Section 15.407 (a)(e)	ANSI C63.10-2013; KDB789033	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	ANSI C63.10-2013; KDB789033	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.209 & 15.407(b)	ANSI C63.10-2013; KDB789033	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	ANSI C63.10-2013; KDB789033	PASS
Operation in the absence of information to the transmit	47 CFR Part 15 Subpart E Section 15.407 (c)	47 CFR Part 15 Subpart E	PASS
Radiated Spurious Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	ANSI C63.10-2013; KDB789033	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

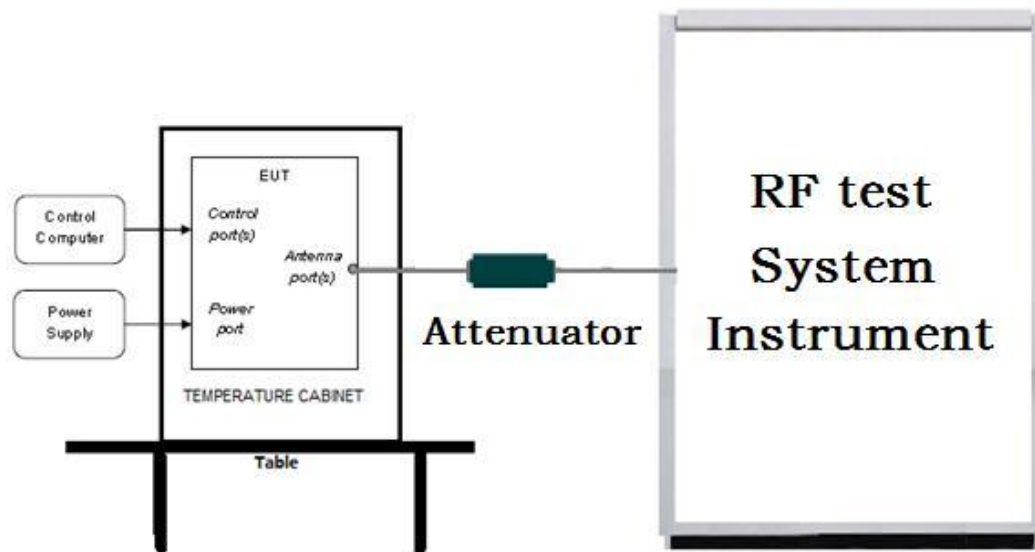
3 Content

	Page
1 VERSION	2
2 TEST SUMMARY	3
3 CONTENT	4
4 TEST REQUIREMENT	5
4.1 TEST SETUP	5
4.1.1 For Conducted test setup	5
4.1.2 For Radiated Emissions test setup	5
4.1.3 For Conducted Emissions test setup	6
4.2 TEST ENVIRONMENT	6
4.3 TEST CONDITION	7
5 GENERAL INFORMATION	9
5.1 CLIENT INFORMATION	9
5.2 GENERAL DESCRIPTION OF EUT	9
5.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	10
5.4 DESCRIPTION OF SUPPORT UNITS	11
5.5 TEST LOCATION	13
5.6 TEST FACILITY	13
5.7 DEVIATION FROM STANDARDS	13
5.8 ABNORMALITIES FROM STANDARD CONDITIONS	13
5.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER	13
5.10 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	13
6 EQUIPMENT LIST	14
7 RADIO TECHNICAL REQUIREMENTS SPECIFICATION	15
Appendix A): Emission Bandwidth	16
Appendix B): Maximum Conduct Output Power	56
Appendix C): Maximum Power Spectral Density	66
Appendix D): Band Edge Measurements	92
7.1.1 Test Result B2/3	94
7.1.2 Test Result B2/3	95
7.1.3 Test Graphs B2/3	96
7.1.4 Test Graphs B2/3	104
Appendix E): Frequency Stability	112
Appendix F): Antenna Requirement	115
Appendix G): Operation in the absence of information to the transmit	116
Appendix H): AC Power Line Conducted Emission	117
Appendix I): Restricted bands around fundamental frequency (Radiated Emission)	120
Appendix J): Radiated Spurious Emissions	130
8 PHOTOGRAPHS - EUT TEST SETUP	137
8.1 RADIATED SPURIOUS EMISSION	137
8.2 CONDUCTED EMISSION	138
9 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	139

4 Test Requirement

4.1 Test setup

4.1.1 For Conducted test setup



4.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

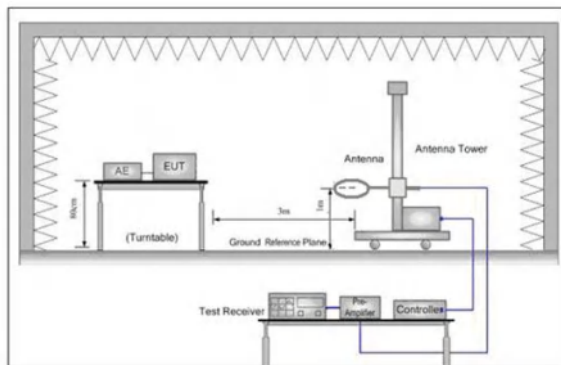


Figure 1. Below 30MHz

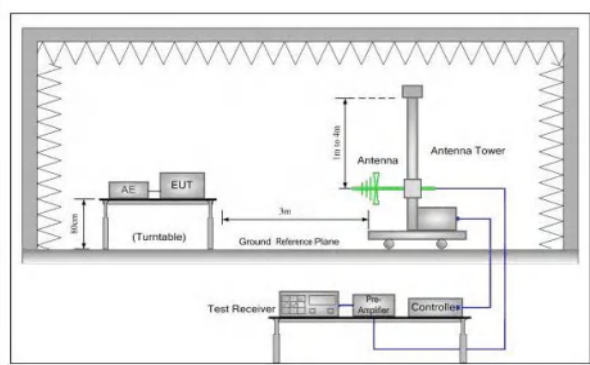


Figure 2. 30MHz to 1GHz

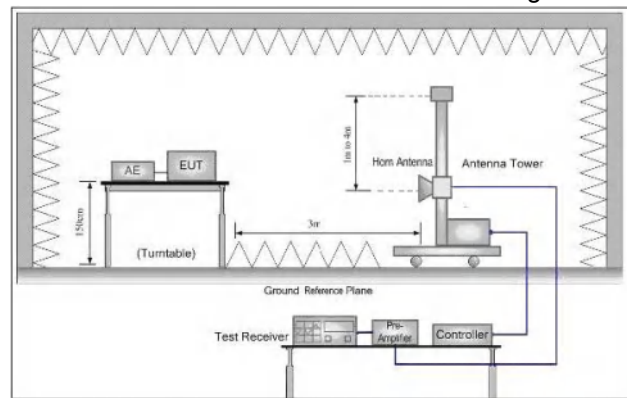
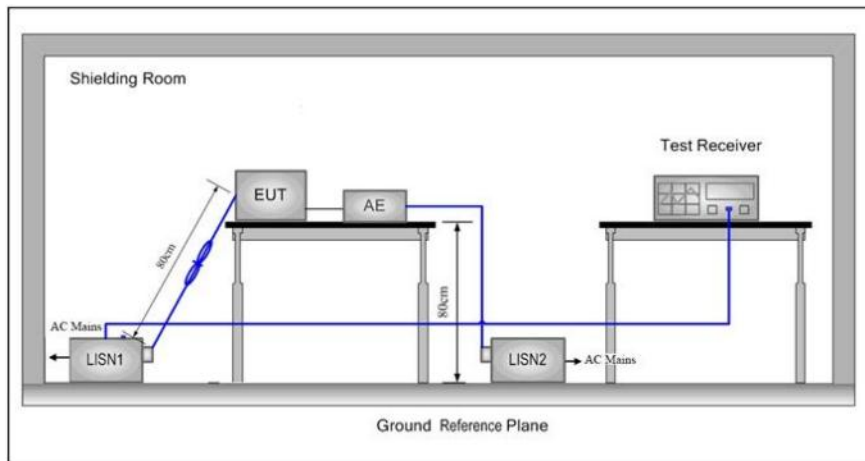


Figure 3. Above 1GHz

4.1.3 For Conducted Emissions test setup

Conducted Emissions setup



4.2 Test Environment

Operating Environment:		
Conducted Emissions:		
Temperature:	25.6 °C	
Humidity:	60 % RH	
Atmospheric Pressure:	1009 mbar	
Radiated Emissions:		
Temperature:	25.5 °C	
Humidity:	54 % RH	
Atmospheric Pressure:	1009mbar	
Radio conducted item test (RF Conducted test room):		
Temperature:	25.3 °C	
Humidity:	50 % RH	
Atmospheric Pressure:	1009 mbar	
Test Condition	Temperature (°C)	Voltage (V)
TN/VN	+15 to +35	24
TL/VL	0	21.6
TH/VL	50	21.6
TL/VH	0	26.4
TH/VH	50	26.4

Remark:

1)The EUT just work in such extreme temperature of 0 °C to 50 °C and the extreme voltage of 6.84V to 8.36V, so here the EUT is tested in the temperature of 0 °C to 50 °C and the voltage of 6.84V to 8.36V.

2)VN: Normal Voltage; TN: Normal Temperature;

TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;

VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

4.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11a/n/ac/ax(20M)	5250MHz ~5350 MHz	Channel 52	Channel 56	Channel 64
		5260MHz	5280MHz	5320MHz
802.11n/ac/ax(40M)	5250MHz ~5350 MHz	Channel 54	N/A	Channel 62
		5270MHz	N/A	5310MHz
802.11n/ac/ax(80M)	5250MHz ~5350 MHz	N/A	Channel 58	N/A
		N/A	5290MHz	N/A
802.11a/n/ac/ax(20M)	5470MHz ~5725 MHz	Channel 100	Channel 116	Channel 144
		5500MHz	5580MHz	5720MHz
802.11n/ac/ax(40M)	5470MHz ~5725 MHz	Channel 102	Channel 110	Channel 142
		5510MHz	5550MHz	5710MHz
802.11n/ac/ax(80M)	5470MHz ~5725 MHz	Channel 106	N/A	Channel 138
		5530MHz	N/A	5690MHz

Run Software:

MT7663 QA 0.0.2.6

Tx/RX | EEPROM | MAC | BBP | RF Page | About |

Normal Mode | RF Type: MT7663 : 2 T 2 R

Channel: 6 2437-MHz | Use Freq Mode: OFDM | Rate: MCS=7; 54 Mbps | System BW: 20 | Per-Pk BW: 20 | Primary Sel: 0 | LTF+GI: -

Nss: 2 | Spatial Idx: | TX/RX0 | TX/RX1 | Reset counter

Tx | RX

☒ TSSI ☒ DPD ☐ STBC ☐ LDPC ☐ SGB

TX frame setting

FC (2)	Dur (2)	Address1(6)Dest	Address2(6)Source	Address3(6)SSID	Seq (2)
0800	0000	FFFFFFFFFFFF	000000000000	001122334455	0000

Payload: Random(1) | Repeat Pattern(3): AA | MPDU Tx Length: 1024 | Packet Tx Time: -

Repeat: 0 | Inter Packet Gap (us): 50 | TX Power(0 ~ 7F): 1E (0.5dB) Dec 15.0

Start TX Transmitted: 0 | Conf. Tx: 0 | NORMAL MO | Ch. Preamble rate: 100% 0.0

TX Tone: Single | DC | +Vf(only one) | DC I offset: 10 | DC Q offset: 10

Freq. Offset: 21

TMR Setting

☐ Initiator ☐ TOAE V1.0 MP TH(dB) | ☐ Responder ☐ TOAE V1.5 MP Iter | ☒ Disable ☒ TOAE V2.0 | Set

Mode	Tx Path	MCS	Payload Len	Packet Count	Po	MPS Add
						MPS Del
						MPS Start

MPS Save Settings | MPS Load Settings

Through Pre-scan, 6Mbps is the worst case of 802.11a (20M); MCS0 is the worst case of 802.11n (20M); MCS0 is the worst case of 802.11ac (20M); MCS0 is the worst case of 802.11n(40M); MCS0 is the worst case of 802.11ac (40M); MCS0 is the worst case of 802.11ac(80M).

5 General Information

5.1 Client Information

Applicant:	Winstars Technology Limited
Address of Applicant:	1-5F, NO.5, Taisong Industrial Zone, Dalang Community, Dalang Street, Longhua District, Shenzhen, China
Manufacturer:	Winstars Technology Limited
Address of Manufacturer:	1-5F, NO.5, Taisong Industrial Zone, Dalang Community, Dalang Street, Longhua District, Shenzhen, China
Factory:	Winstars Technology Limited
Address of Factory:	1-5F, NO.5, Taisong Industrial Zone, Dalang Community, Dalang Street, Longhua District, Shenzhen, China

5.2 General Description of EUT

Product Name:	Wireless AP/Repeater
Model No.:	WS-WN573HX3, WL-WN573HX3, WS-WN573HX1, WL-WN573HX1, AERIAL HD6, AERIAL HD9
Test Model No.:	WS-WN573HX3
Trade Mark:	N/A
Hardware Version:	M73HX3_V240229
Software Version:	WS-WN573HX3-A
EUT Power Supply:	Power supply POE
EUT Supports Radios application:	U-NII-1: 5.15-5.25GHz; U-NII-2a: 5.25-5.35GHz U-NII-2c: 5.47-5.725GHz; U-NII-3: 5.725-5.850GHz
EUT Type:	Indoor devices

5.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11a/n/ac/ax(20M): 5150MHz ~5250 MHz IEEE802.11n/ac/ax(40M): 5150MHz ~5250 MHz IEEE802.11ac/ax(80M): 5150MHz ~5250 MHz IEEE 802.11a/n/ac/ax(20M): 5250MHz ~5350 MHz IEEE802.11n/ac/ax(40M): 5250MHz ~5350 MHz IEEE802.11ac/ax(80M): 5250MHz ~5350 MHz IEEE 802.11a/n/ac/ax(20M): 5470MHz ~5725 MHz IEEE802.11n/ac/ax(40M): 5470MHz ~5725 MHz IEEE802.11ac/ax(80M): 5470MHz ~5725 MHz IEEE 802.11a/n/ac/ax(20M): 5725MHz ~5850 MHz IEEE802.11n/ac/ax(40M): 5725MHz ~5850 MHz IEEE802.11ac/ax(80M): 5725MHz ~5850 MHz
Channel Numbers:	IEEE 802.11a/n/ac/ax(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac/ax(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac/ax(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac/ax(20M): 5250MHz ~5350MHz/ 4 channel IEEE 802.11n/ac/ax(40M): 5250MHz ~5350MHz/ 2 channel IEEE 802.11ac/ax(80M): 5250MHz ~5350MHz/ 1 channel IEEE 802.11a/n/ac/ax(20M): 5470MHz ~5725MHz/ 8 channel IEEE 802.11n/ac/ax(40M): 5470MHz ~5725MHz/ 3 channel IEEE 802.11ac/ax(80M): 5470MHz ~5725MHz/ 1 channel IEEE 802.11a/n/ac/ax(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac/ax(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac/ax(80M): 5725MHz ~5850MHz/ 1 channel
Type of Modulation:	IEEE for 802.11ax: OFDMA(1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11a/n/ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)
Sample Type:	☒ Mobile ☐ Portable
Test Software of EUT:	qatool_dbg
Antenna Type:	External antenna
Antenna gain:	Ant1: 6.7dBi@5GHz: Wi-Fi: U-NII-1 6.83dBi@5GHz: Wi-Fi: U-NII-2A 7.61dBi@5GHz: Wi-Fi: U-NII-2C 6.71dBi@5GHz: Wi-Fi: U-NII-3 Ant2: 6.7dBi@5GHz: Wi-Fi: U-NII-1 6.83dBi@5GHz: Wi-Fi: U-NII-2A 7.61dBi@5GHz: Wi-Fi: U-NII-2C 6.71dBi@5GHz: Wi-Fi: U-NII-3 Ant1+Ant2: 9.71dBi@5GHz: Wi-Fi: U-NII-1 9.84dBi@5GHz: Wi-Fi: U-NII-2A 10.62dBi@5GHz: Wi-Fi: U-NII-2C 9.72dBi@5GHz: Wi-Fi: U-NII-3
Cable loss:	1.0 dB

Operation Frequency each of channel

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210	/	/
(U-NII-2A) 5260MHz-5320MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290	/	/
(U-NII-2C) 5500MHz-5700MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	100	5500	104	5520
	108	5540	112	5560
	116	5580	132	5660
	136	5680	140	5700
40MHz	102	5510	110	5550
	134	5670	/	/
80MHz	106	5530	/	/
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825	/	/
40MHz	151	5755	159	5795
80MHz	165	5775	/	/

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

5.5 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

5.6 Test Facility

• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	3×10^{-8}
2	RF power, conducted	0.86dB
3	Radiated Spurious emission test	5.12dB (Below 1GHz)
		4.6dB (Above 1GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.8°C
6	Humidity test	2.0%
7	DC power voltages	0.5%

6 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU40	CQA-075	2024/9/2	2025/9/1
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2024/9/2	2025/9/1
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2024/9/2	2025/9/1
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/9/2	2025/9/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2024/9/2	2025/9/1
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2024/9/2	2025/9/1
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/9/2	2025/9/1
Antenna Connector	CQA	RFC-01	CQA-080	2024/9/2	2025/9/1
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2024/9/2	2025/9/1
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2024/9/2	2025/9/1
Power meter	R&S	NRVD	CQA-029	2024/9/2	2025/9/1
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2024/9/2	2025/9/1
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
LISN	R&S	ENV216	CQA-003	2024/9/2	2025/9/1
Coaxial cable	CQA	N/A	CQA-C009	2024/9/2	2025/9/1
DC power	KEYSIGHT	E3631A	CQA-028	2024/9/2	2025/9/1

Test software:

	Manufacturer	Software brand	Software version
Radiated Emissions test software	Tonscend	JS1120-3	Version:8
Conducted Emissions test software	Audix	e3	Version:9
RF Conducted test software	Audix	e3	V3.5.39

7 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15E	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E
4	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band

Appendix A): Emission Bandwidth

26dB Emission bandwidth

Test Requirement: 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II C 1

6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

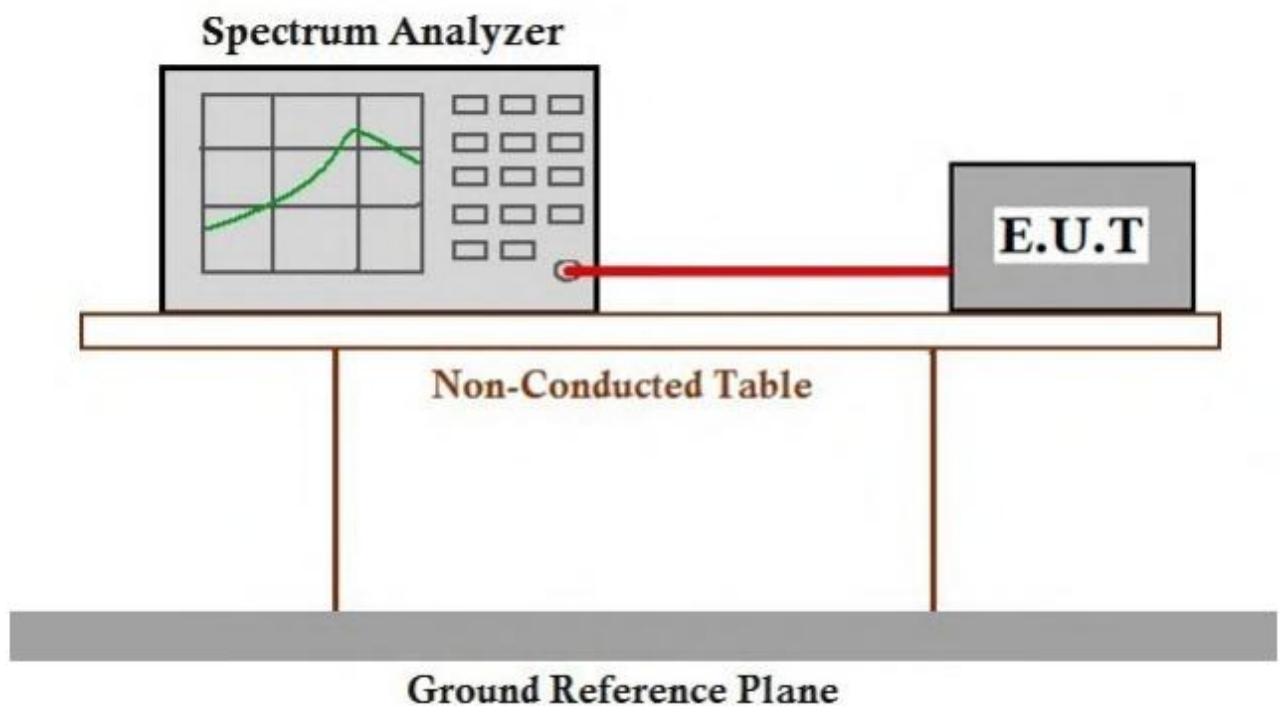
Test Method: KDB 789033 D02 II C 2

Limit: ≥ 500 kHz

Test Procedure:

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Test Setup Diagram



Result Table

Ant1:

TestMode	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	5260	20.04	5249.68	5269.72
	5280	20.32	5269.64	5289.96
	5320	20.76	5309.52	5330.28
	5500	20.44	5489.92	5510.36
	5580	19.80	5570.04	5589.84
	5700	21.52	5688.28	5709.80
11N20SISO	5260	20.32	5249.64	5269.96
	5280	20.24	5269.76	5290.00
	5320	21.12	5308.88	5330.00
	5500	20.28	5489.96	5510.24
	5580	20.04	5569.96	5590.00
	5700	21.40	5688.40	5709.80
11N40SISO	5270	39.92	5249.84	5289.76
	5310	38.96	5290.88	5329.84
	5510	40.56	5489.52	5530.08
	5550	39.60	5530.16	5569.76
	5670	40.32	5649.12	5689.44
11AC20SISO	5260	20.32	5249.48	5269.80
	5280	20.64	5269.36	5290.00
	5320	20.84	5309.40	5330.24
	5500	20.04	5490.08	5510.12
	5580	21.00	5569.84	5590.84
	5700	22.52	5688.00	5710.52
11AC40SISO	5270	39.76	5250.00	5289.76
	5310	39.36	5290.48	5329.84
	5510	41.52	5488.88	5530.40
	5550	39.36	5530.08	5569.44
	5670	39.36	5650.00	5689.36
11AC80SISO	5290	82.24	5247.92	5330.16
	5530	80.00	5490.00	5570.00
11AX20SISO	5260	20.24	5249.80	5270.04
	5280	20.52	5269.88	5290.40
	5320	22.00	5308.16	5330.16
	5500	22.48	5488.96	5511.44

		5580	20.68	5569.64	5590.32
		5700	21.36	5689.48	5710.84
11AX40SISO		5270	39.52	5250.08	5289.60
		5310	39.28	5290.40	5329.68
		5510	39.52	5490.24	5529.76
		5550	39.44	5530.32	5569.76
		5670	39.68	5650.00	5689.68
11AX80SISO		5290	83.84	5246.32	5330.16
		5530	80.00	5490.00	5570.00

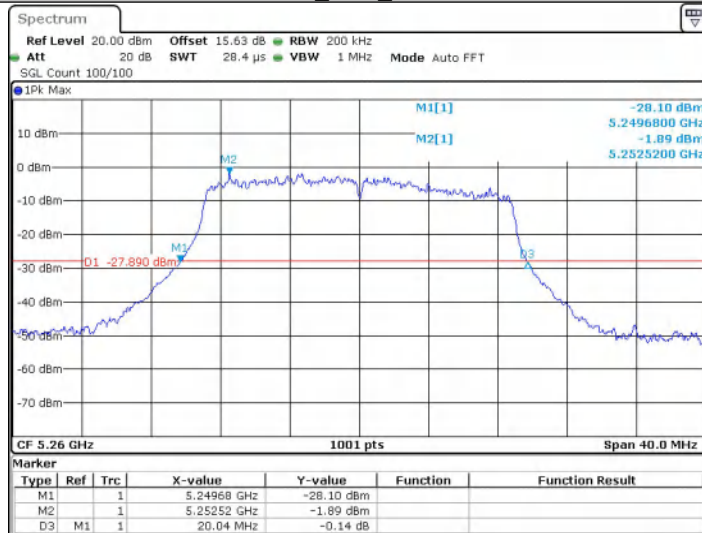
Ant2:

TestMode	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	5260	18.92	5250.28	5269.20
	5280	19.96	5269.68	5289.64
	5320	19.28	5310.20	5329.48
	5500	21.16	5489.92	5511.08
	5580	19.76	5570.36	5590.12
	5700	20.44	5689.88	5710.32
11N20SISO	5260	19.84	5249.80	5269.64
	5280	20.60	5269.68	5290.28
	5320	21.40	5308.84	5330.24
	5500	21.84	5489.84	5511.68
	5580	20.84	5569.68	5590.52
	5700	21.88	5687.96	5709.84
11N40SISO	5270	40.24	5249.60	5289.84
	5310	40.08	5290.40	5330.48
	5510	39.92	5490.16	5530.08
	5550	39.92	5530.40	5570.32
	5670	41.28	5648.64	5689.92
11AC20SISO	5260	20.92	5249.04	5269.96
	5280	20.72	5269.80	5290.52
	5320	22.84	5308.88	5331.72
	5500	22.76	5488.56	5511.32
	5580	20.68	5569.44	5590.12
	5700	23.44	5687.12	5710.56
11AC40SISO	5270	39.60	5249.68	5289.28
	5310	39.60	5290.16	5329.76
	5510	42.08	5489.44	5531.52
	5550	39.28	5530.40	5569.68
	5670	40.72	5649.04	5689.76
11AC80SISO	5290	88.32	5241.84	5330.16
	5530	80.00	5490.00	5570.00
11AX20SISO	5260	20.40	5249.64	5270.04
	5280	20.64	5269.52	5290.16
	5320	20.04	5310.00	5330.04
	5500	20.20	5489.96	5510.16
	5580	20.40	5570.00	5590.40

	5700	21.60	5688.76	5710.36
11AX40SISO	5270	39.28	5250.32	5289.60
	5310	39.44	5290.40	5329.84
	5510	39.60	5490.24	5529.84
	5550	39.36	5530.32	5569.68
	5670	42.08	5647.76	5729.68
11AX80SISO	5290	83.04	5247.12	5330.16
	5530	80.16	5489.84	5570.00

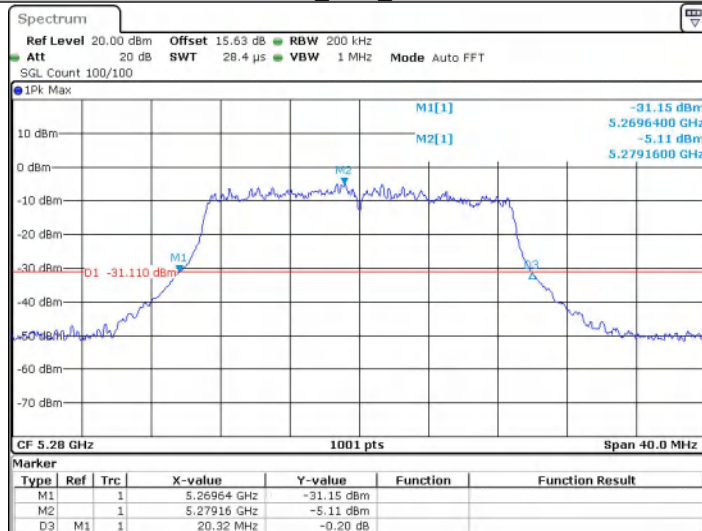
Test Graph

11A_Ant1_5260



Date: 10 APR 2025 15:28:09

11A_Ant1_5280



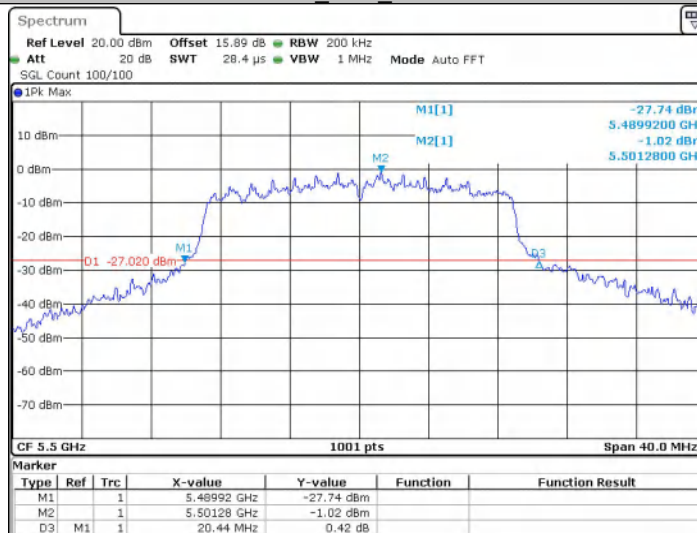
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11A_Ant1_5320



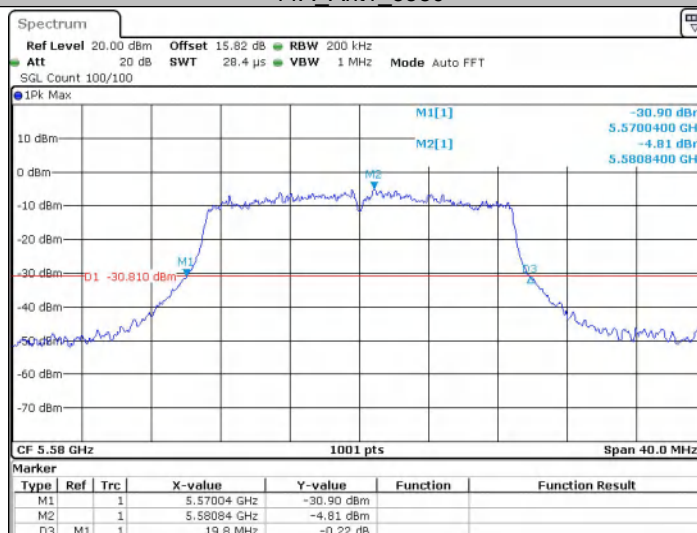
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11A_Ant1_5500



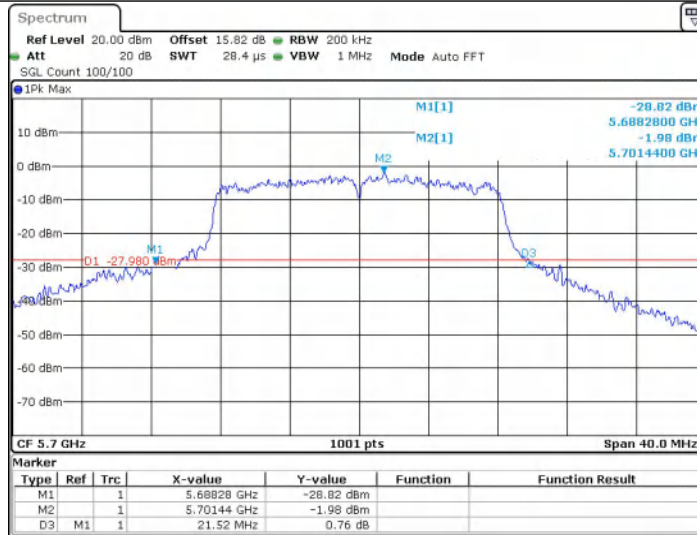
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11A_Ant1_5580



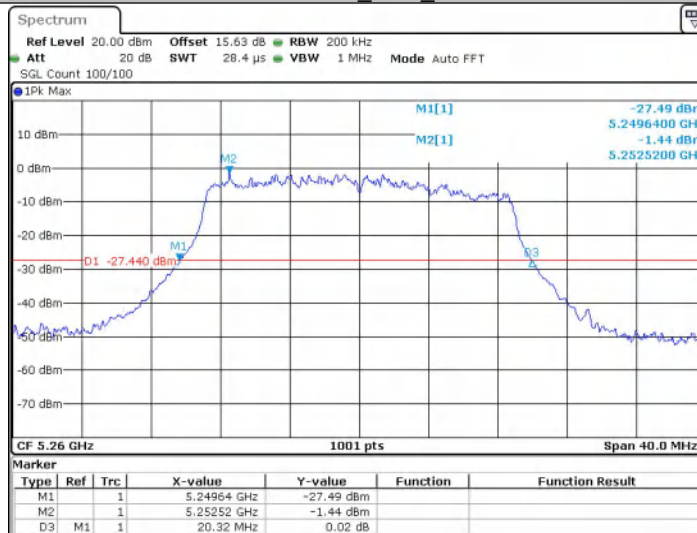
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11A_Ant1_5700



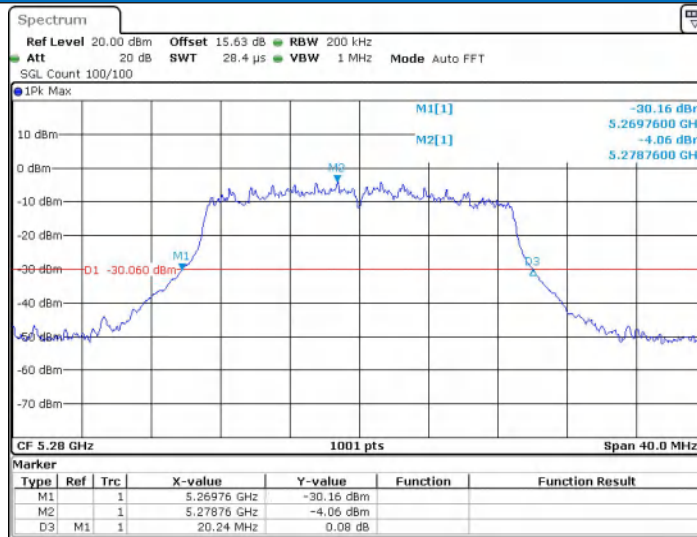
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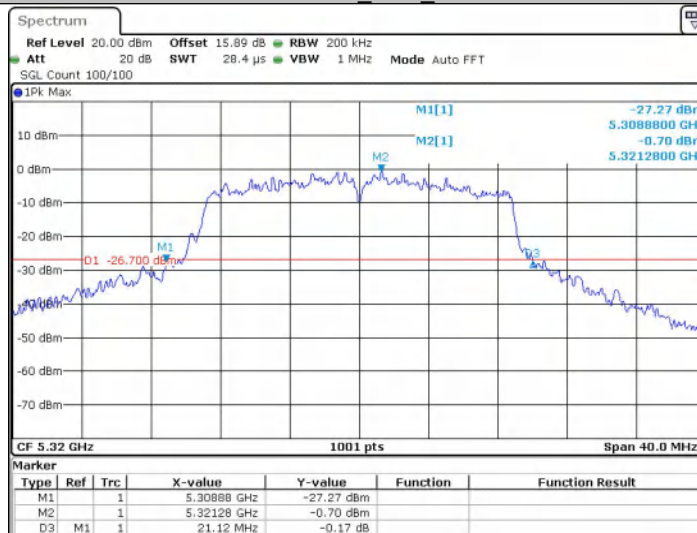
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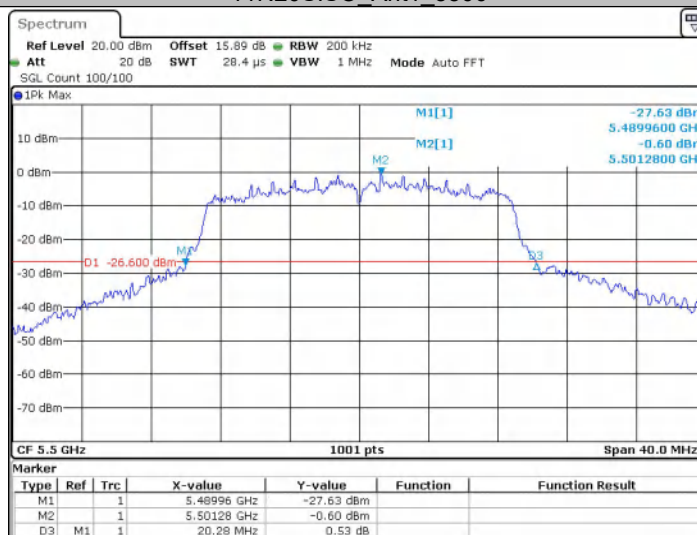
Date: 10 APR 2025 15:43:45

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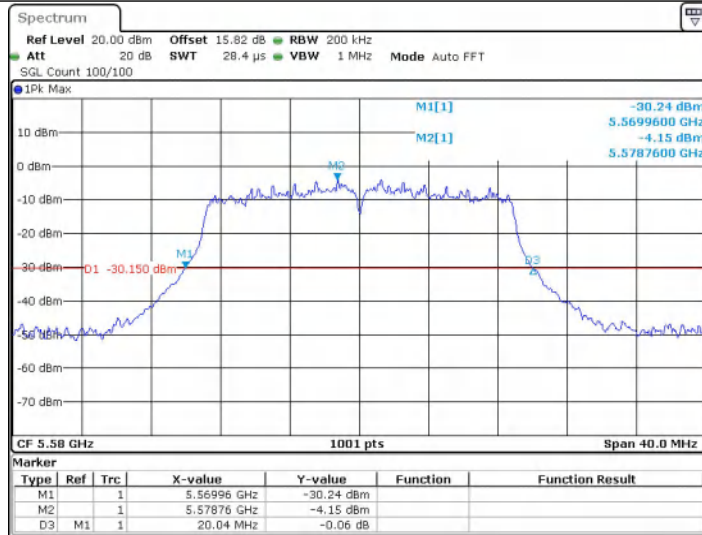
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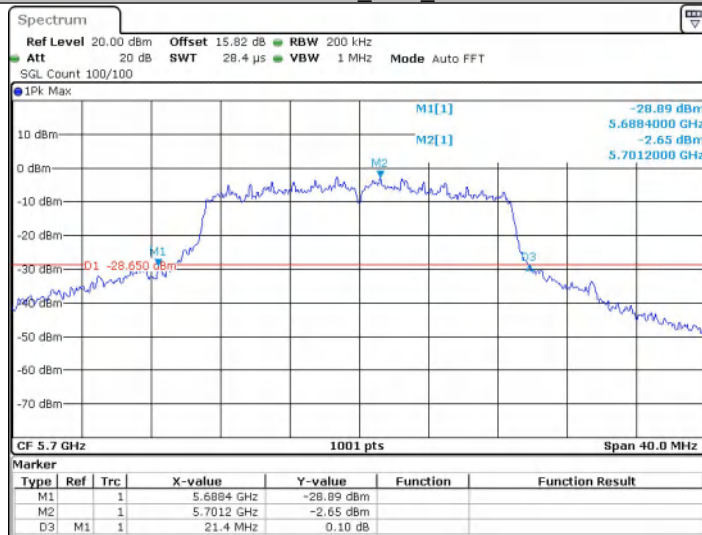
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11N20SISO_Ant1_5580



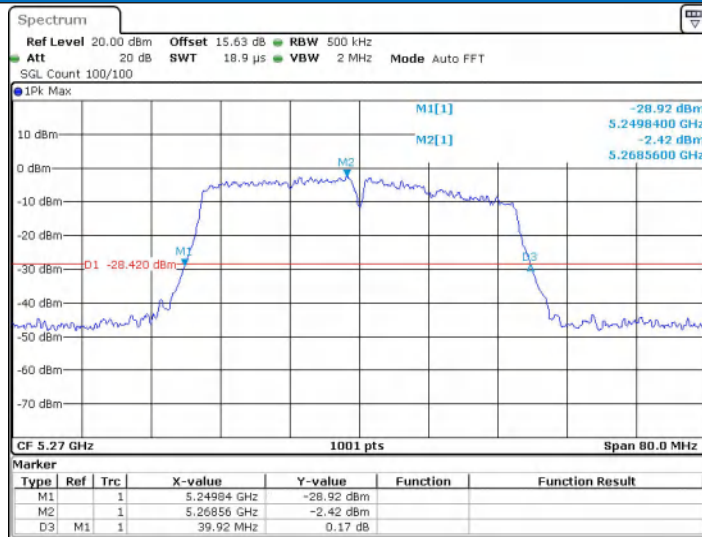
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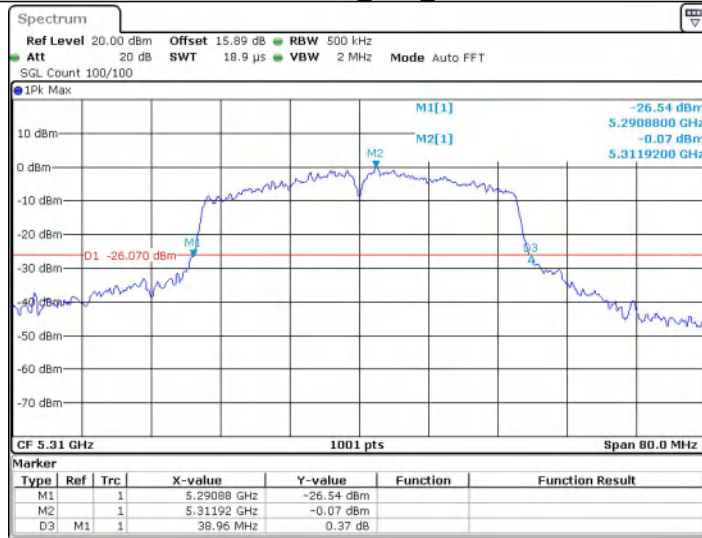


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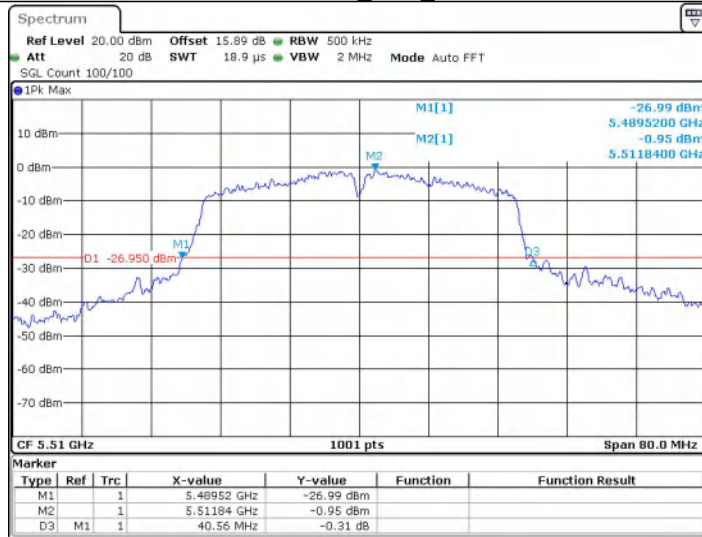
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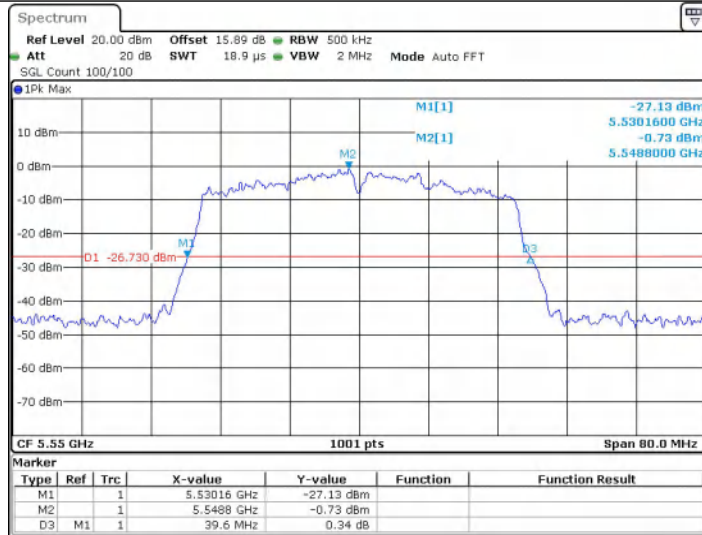
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11N40SISO_Ant1_5510

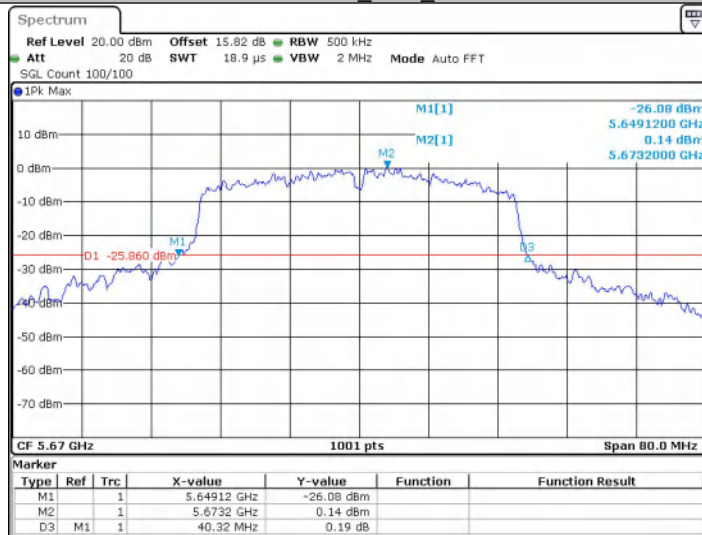


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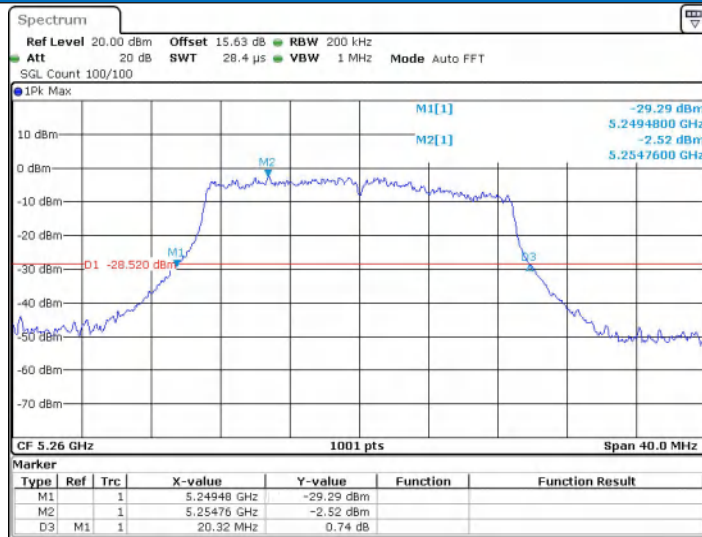
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11N40SISO_Ant1_5670



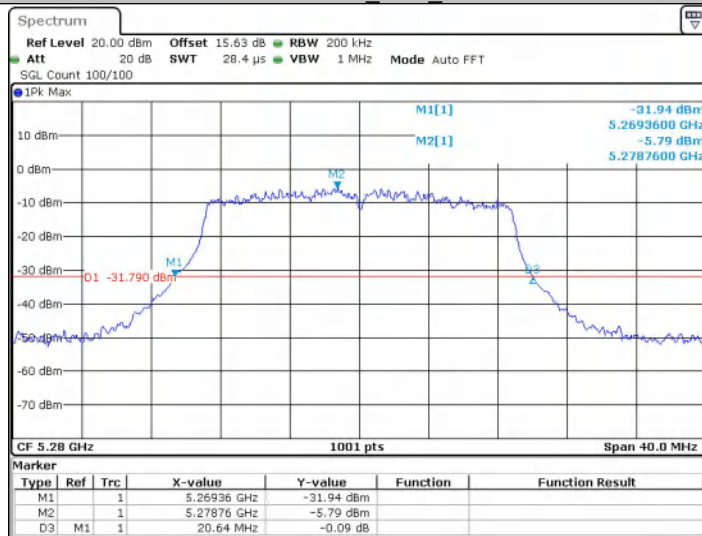
Date: 19 JUN 2025 11:59:24

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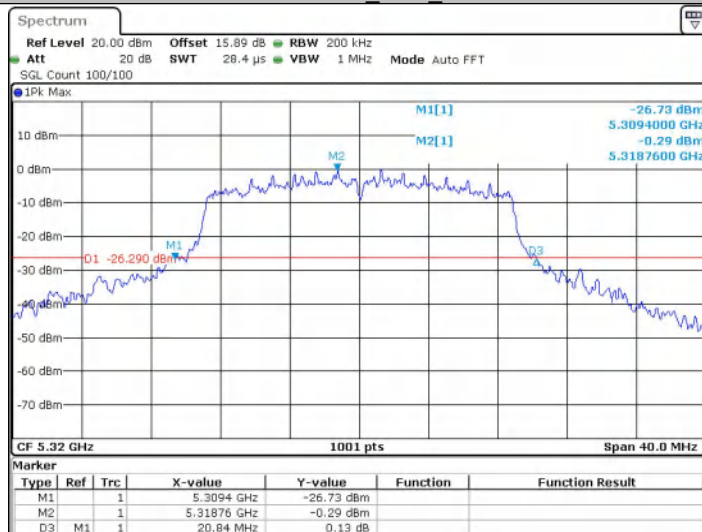
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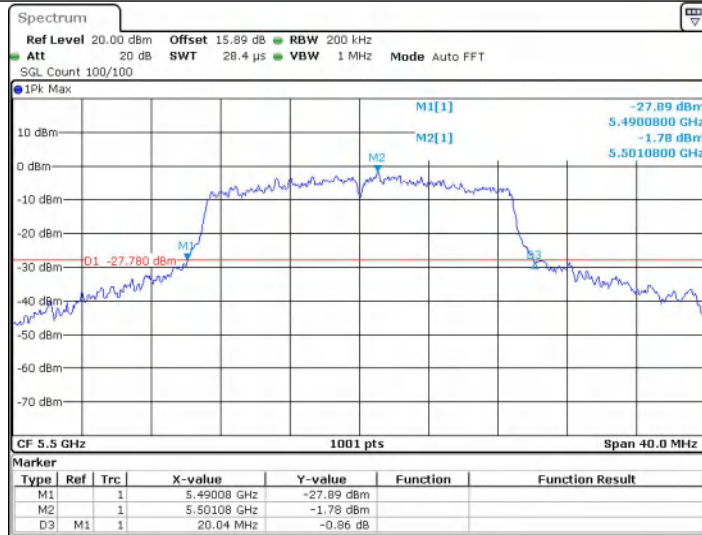
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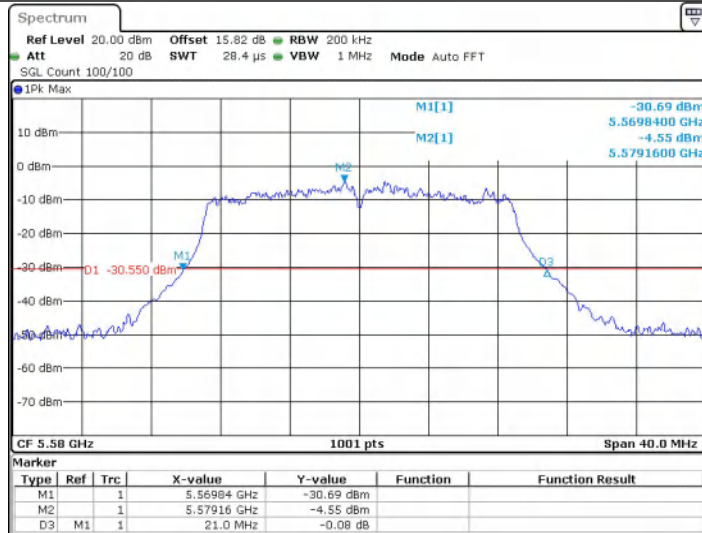
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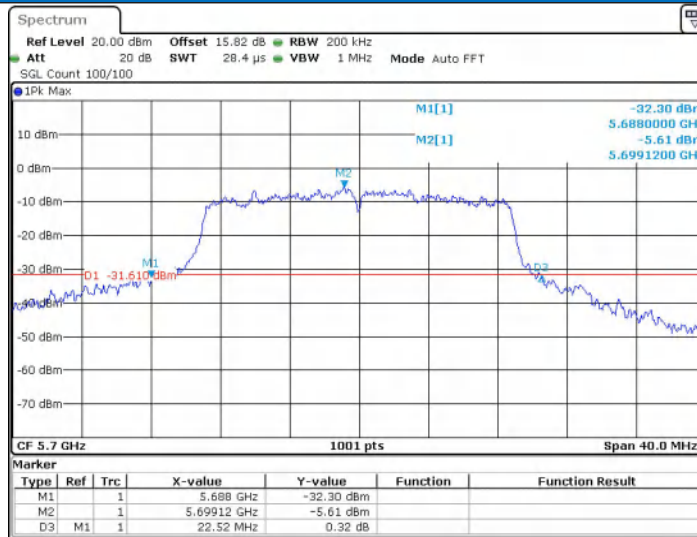
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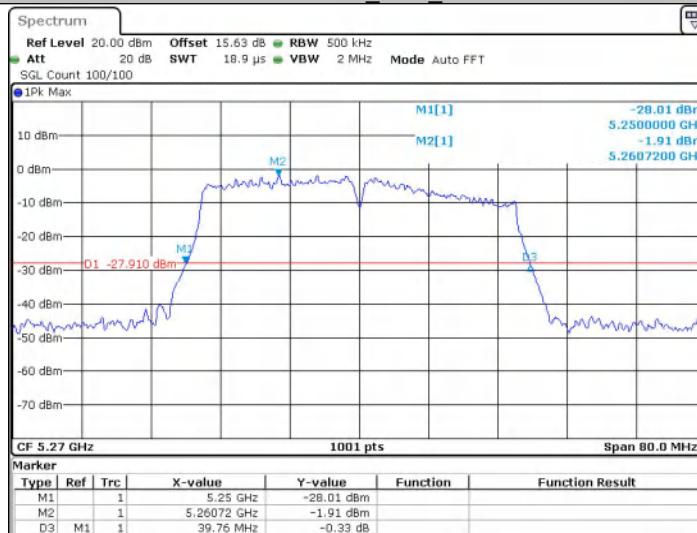
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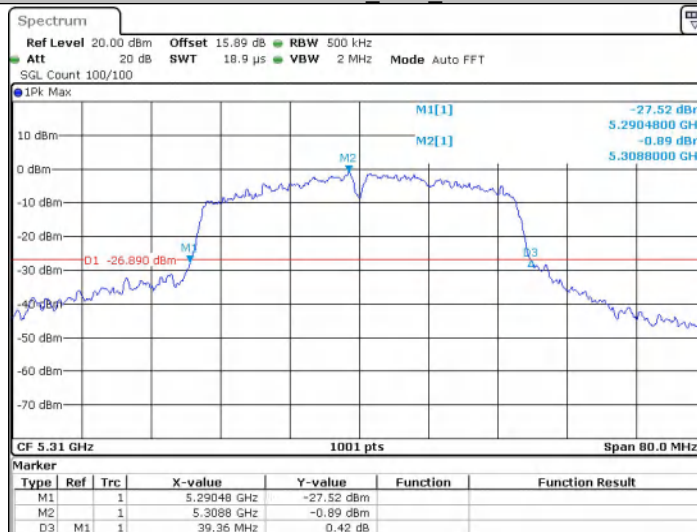
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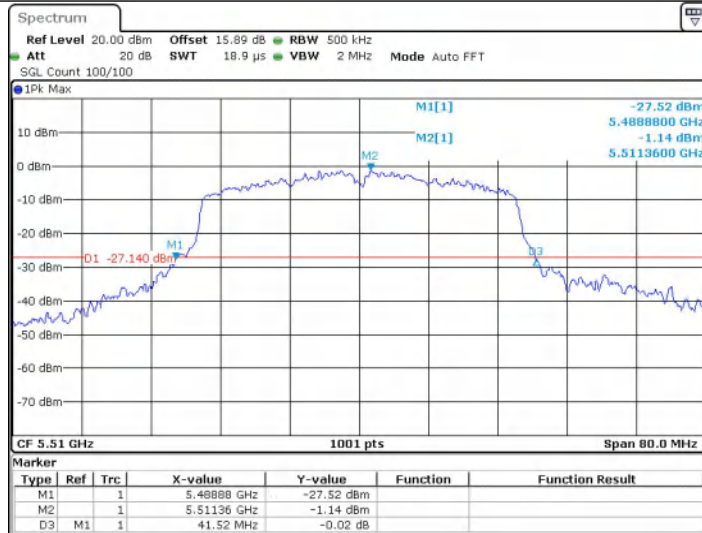
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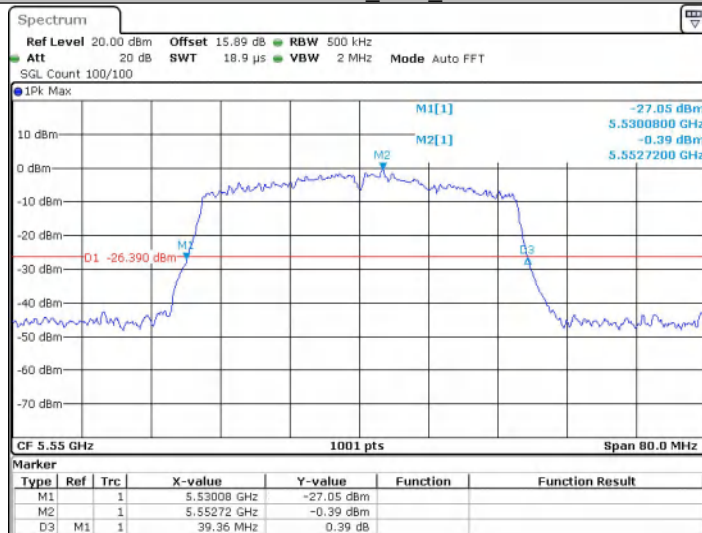
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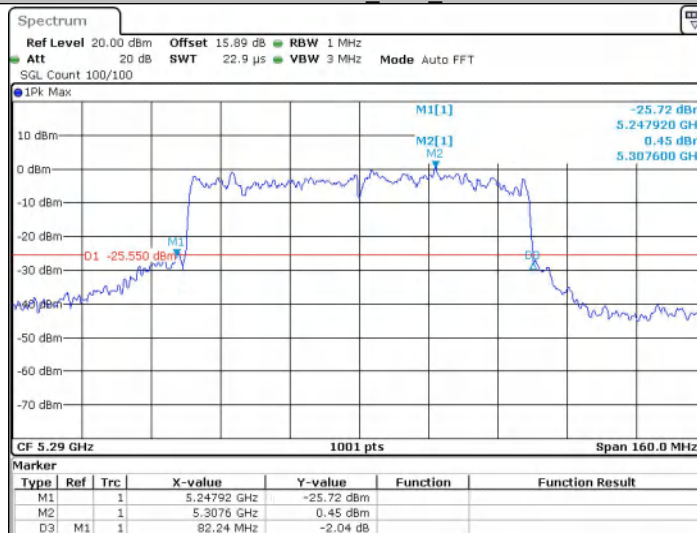
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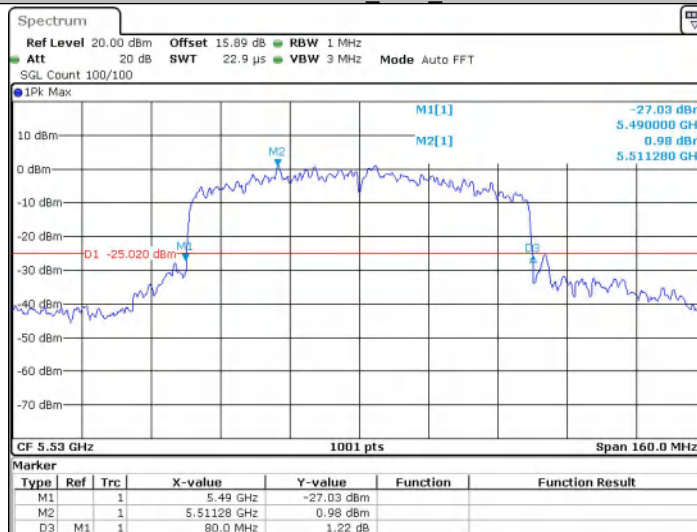
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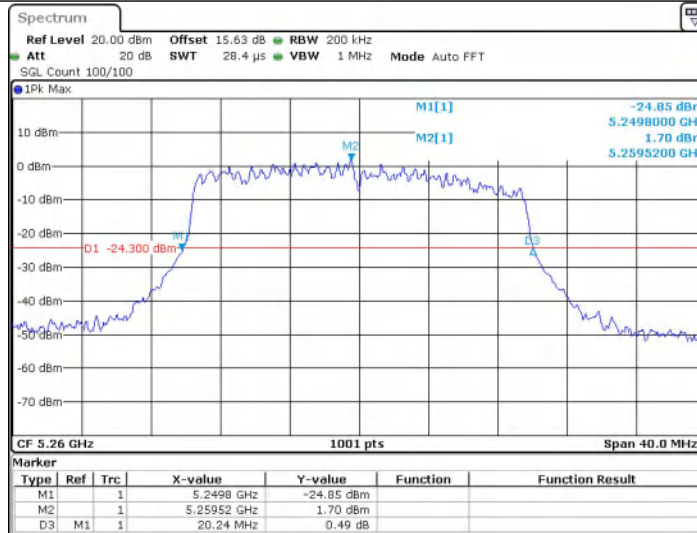
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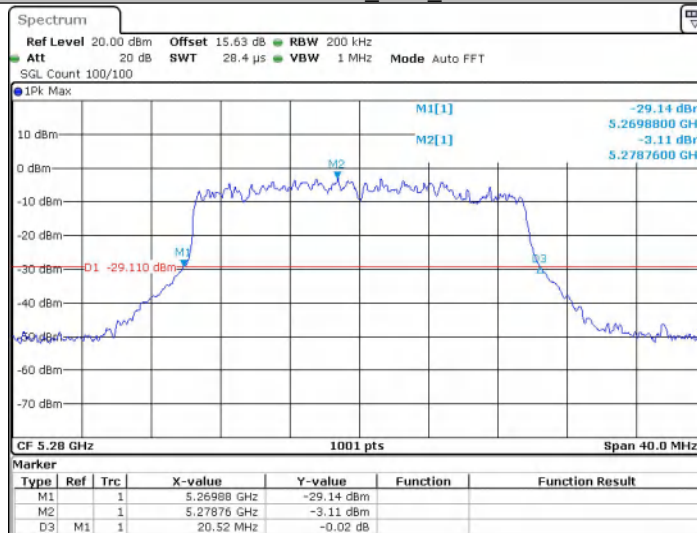
Date: 10 APR 2025 17:26:09

11AX20SISO_Ant1_5260



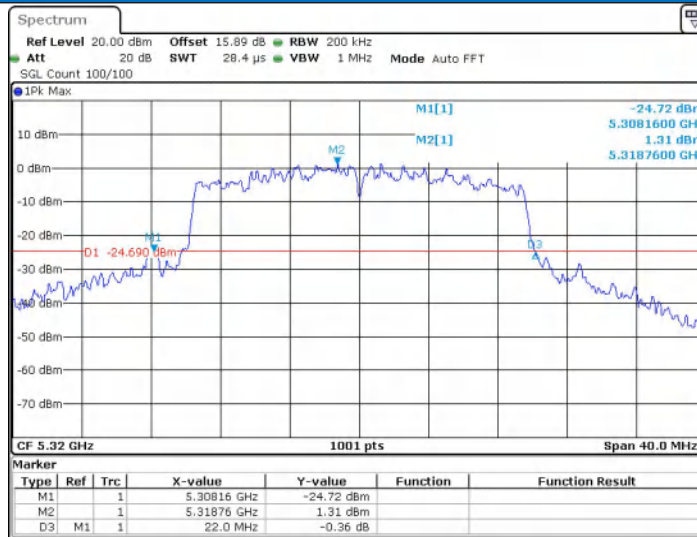
Date: 10.APR 2025 17:36:01

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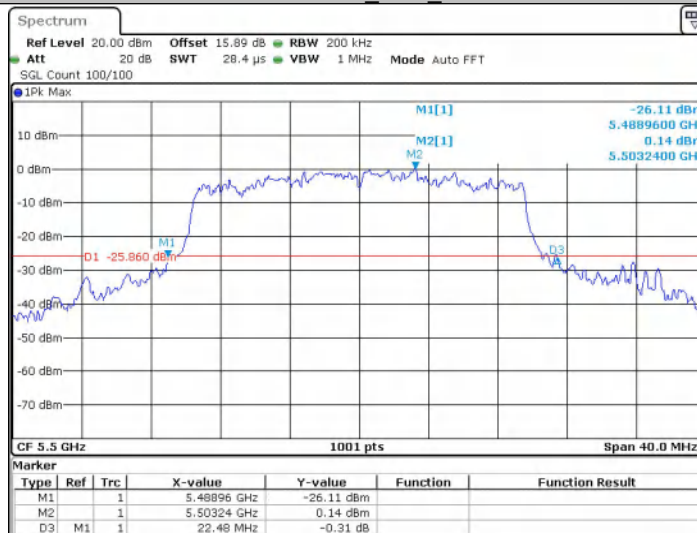
Date: 10.APR 2025 17:38:06

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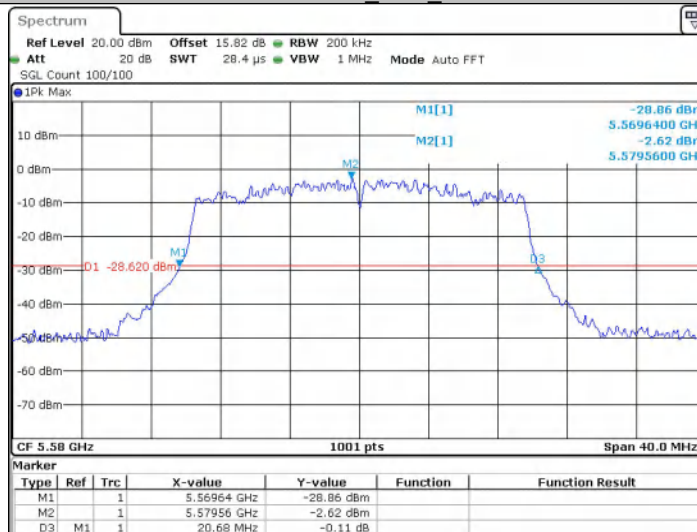
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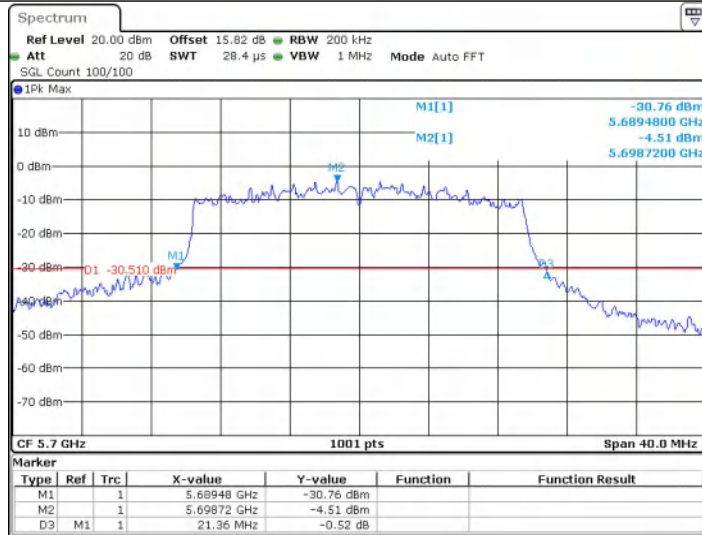
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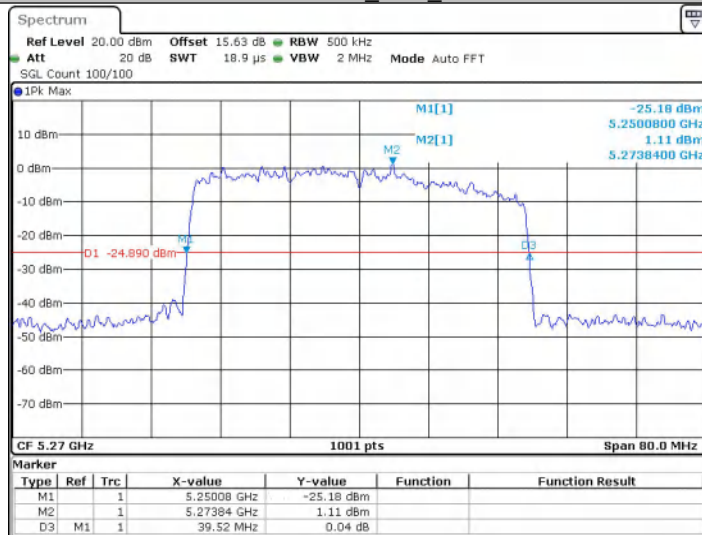
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11AX20SISO_Ant1_5700



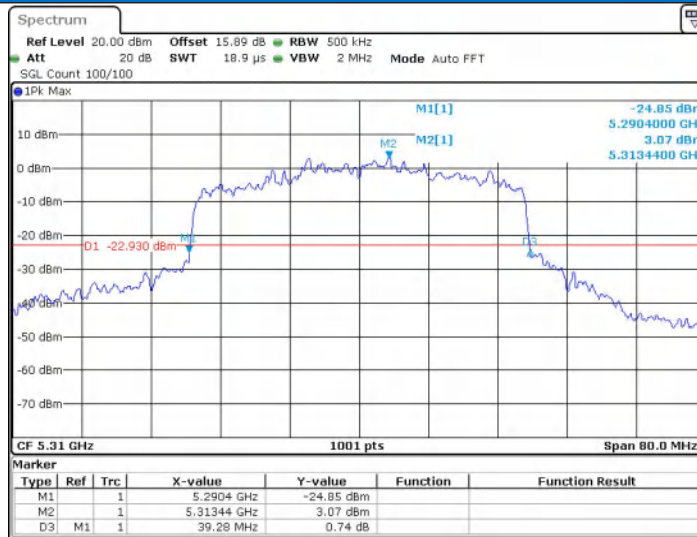
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11AX40SISO_Ant1_5270



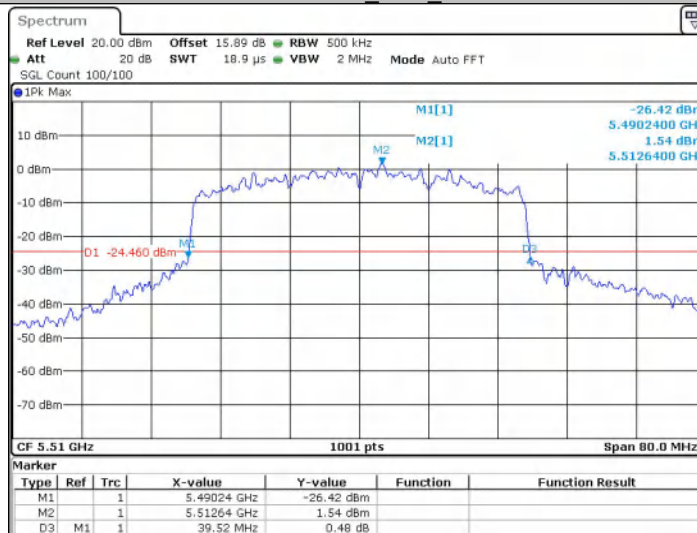
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11AX40SISO_Ant1_5310



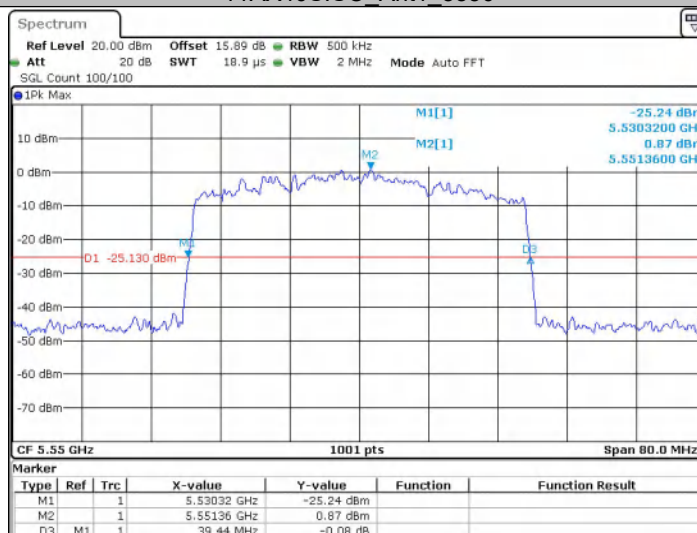
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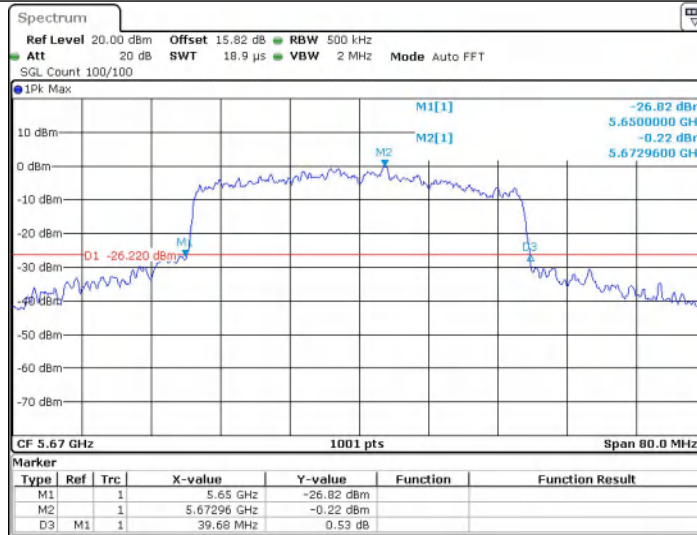
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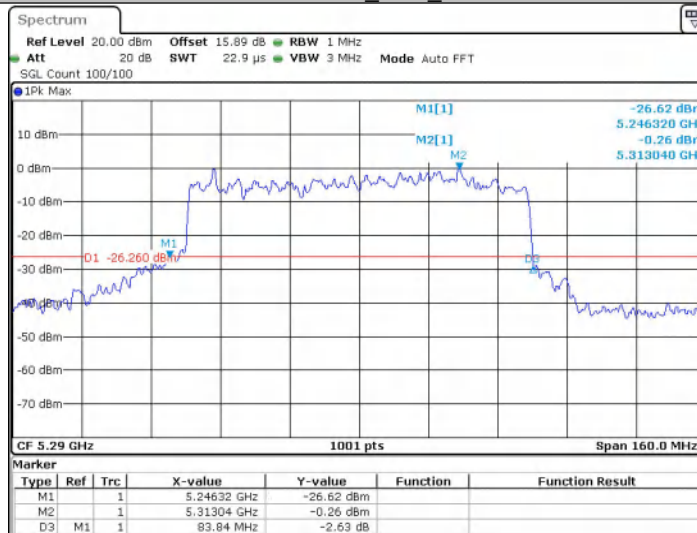
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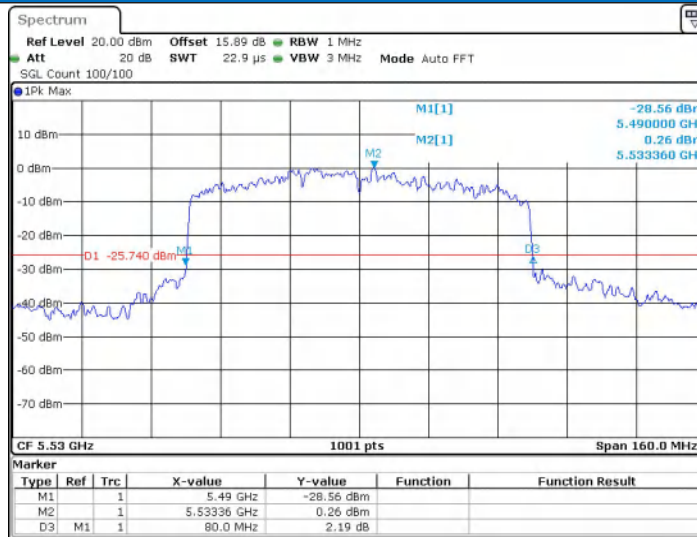
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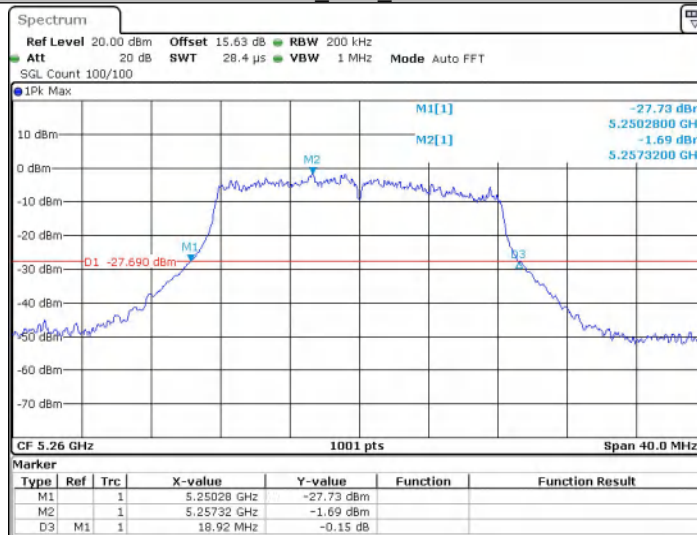


Date: 10 APR 2025 18:00:28

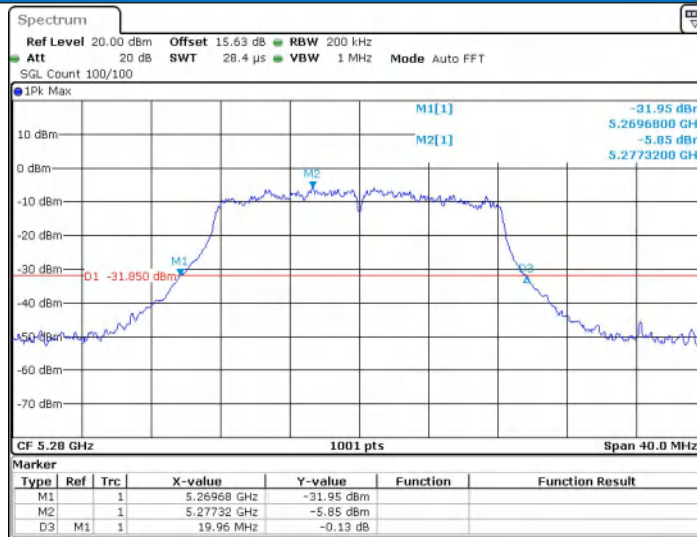
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11A_Ant2_5260

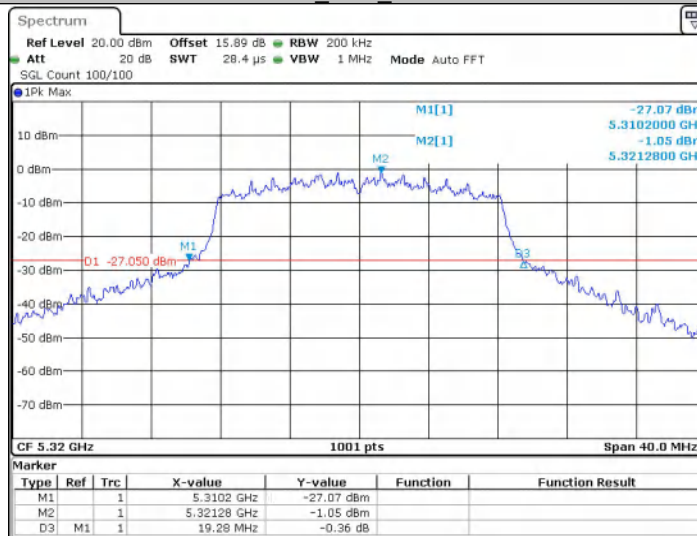


11A_Ant2_5280



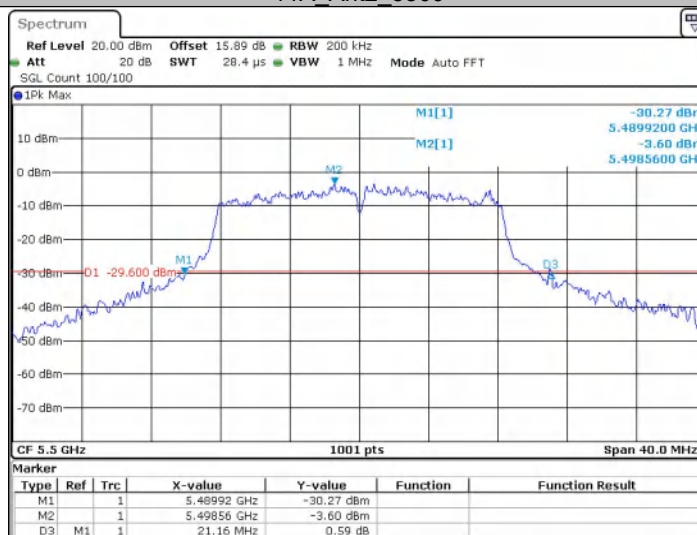
Date: 10 APR 2025 11:43:52

11A_Ant2_5320



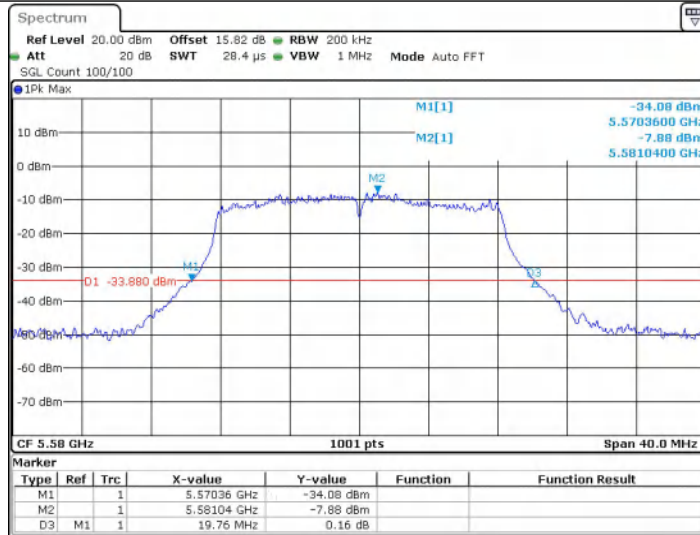
Date: 10 APR 2025 11:46:43

11A_Ant2_5500



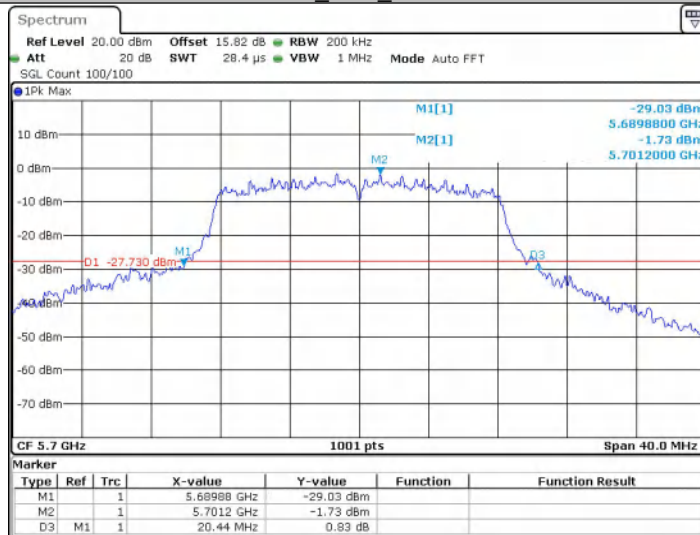
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11A_Ant2_5580



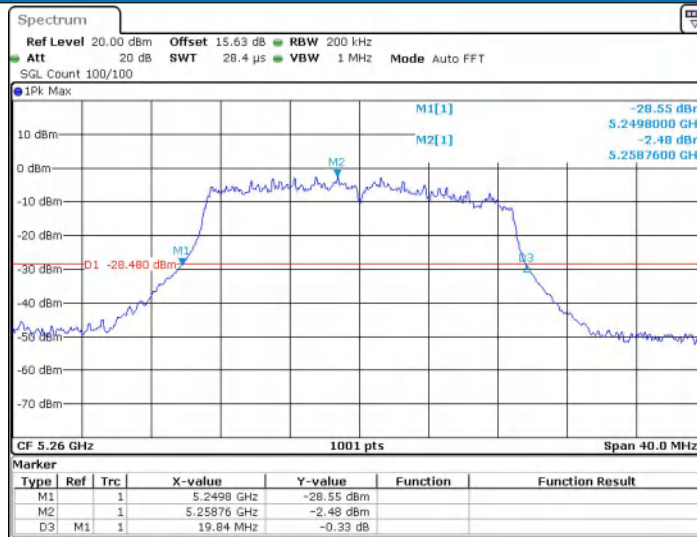
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11A_Ant2_5700



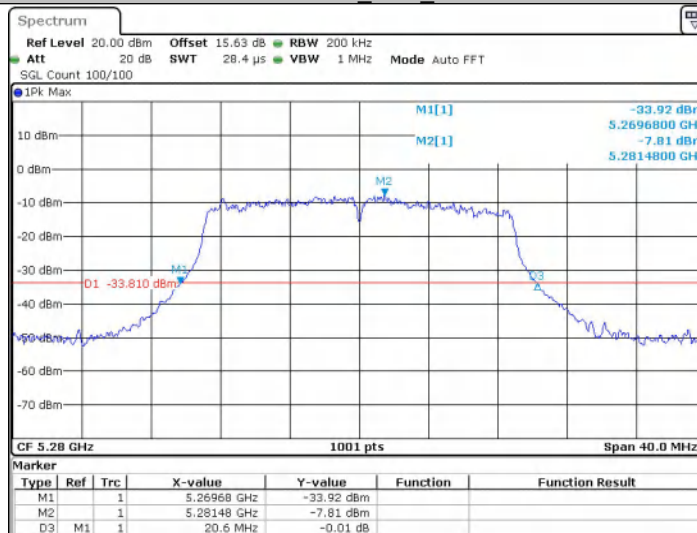
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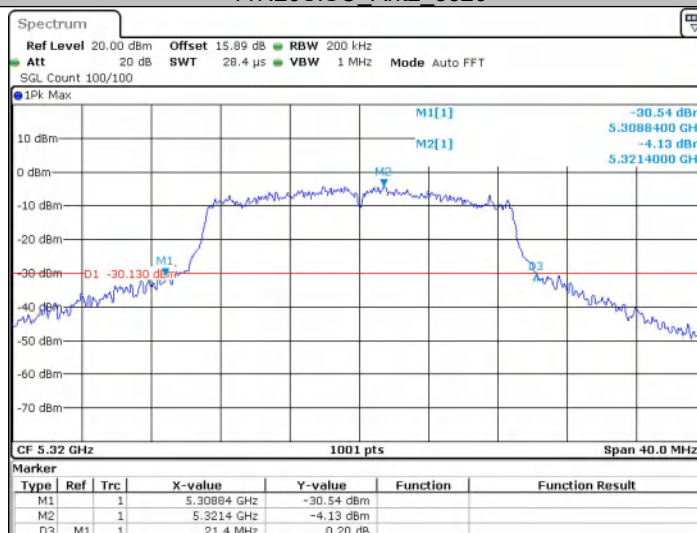
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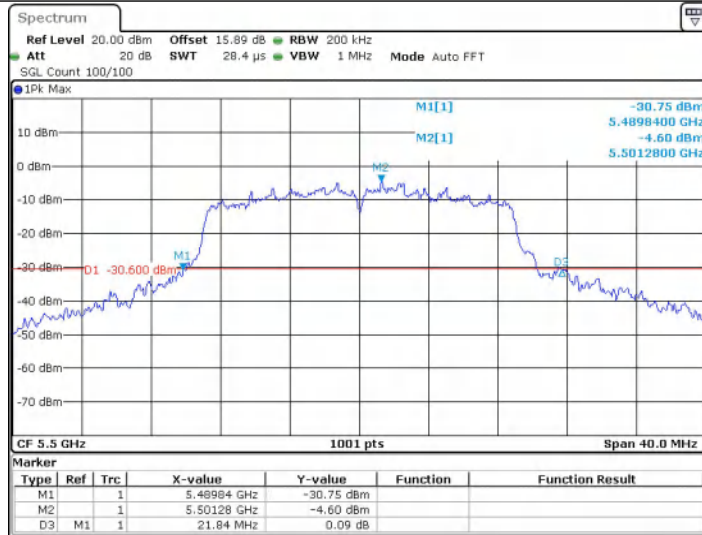
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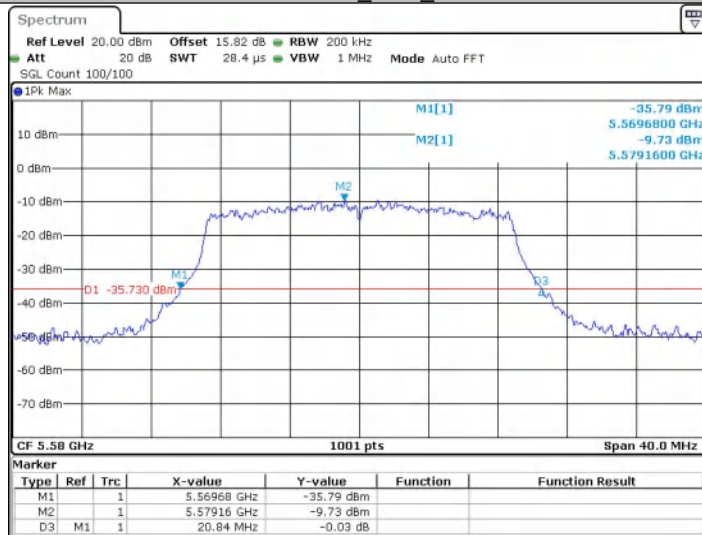
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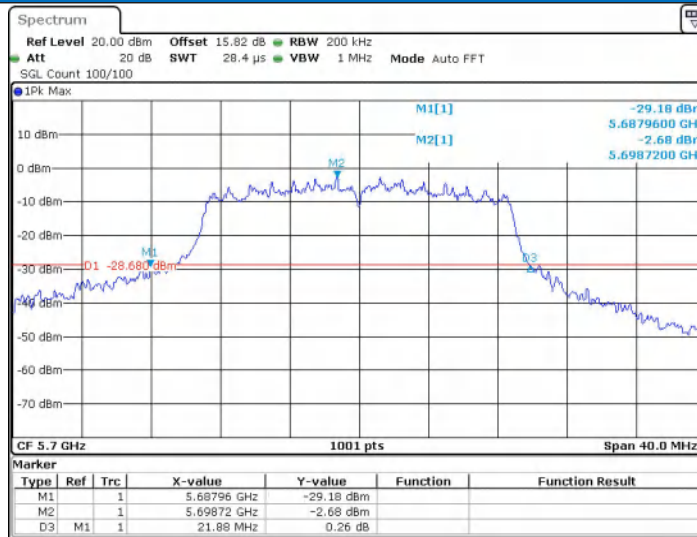
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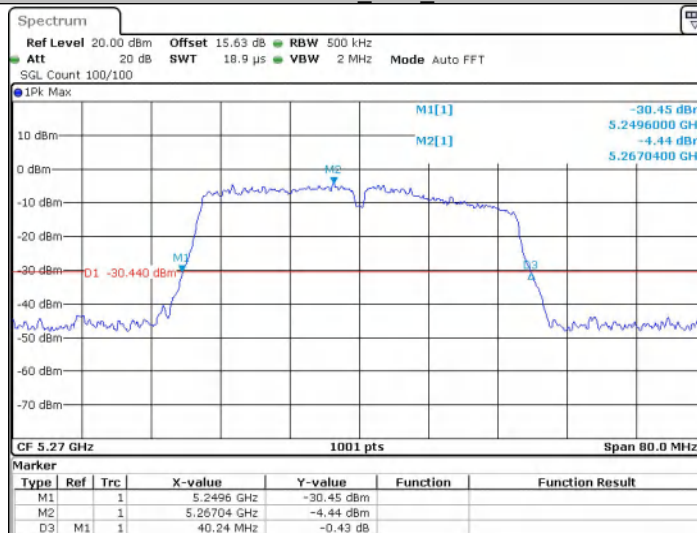
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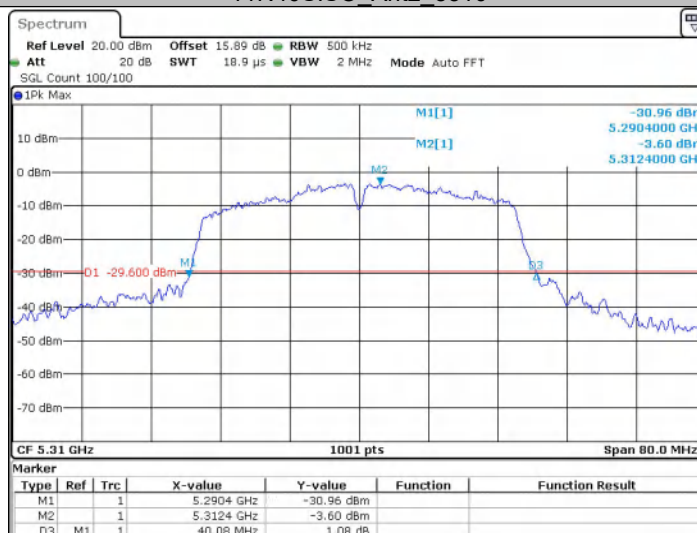
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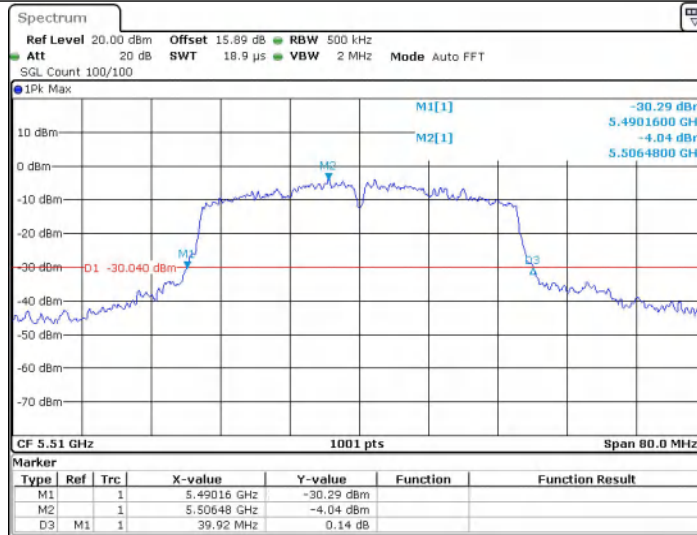
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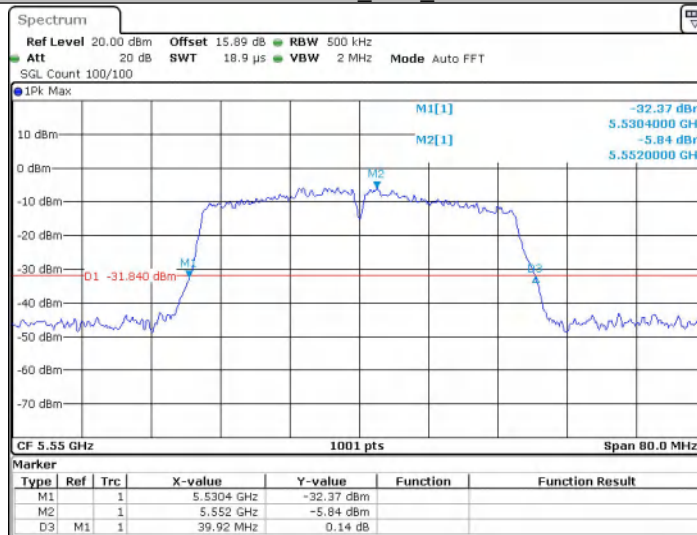
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11N40SISO_Ant2_5510



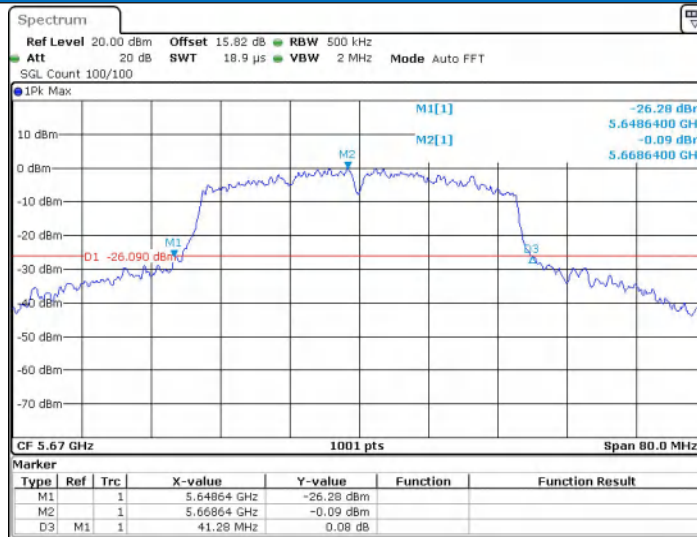
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11N40SISO_Ant2_5550



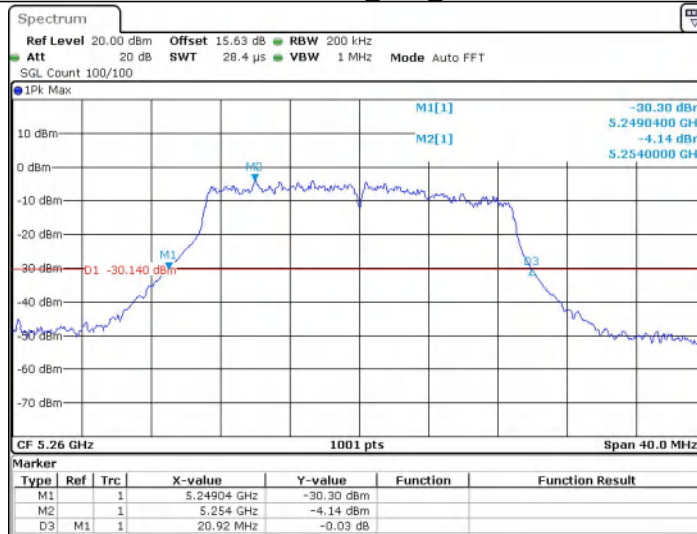
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11N40SISO_Ant2_5670



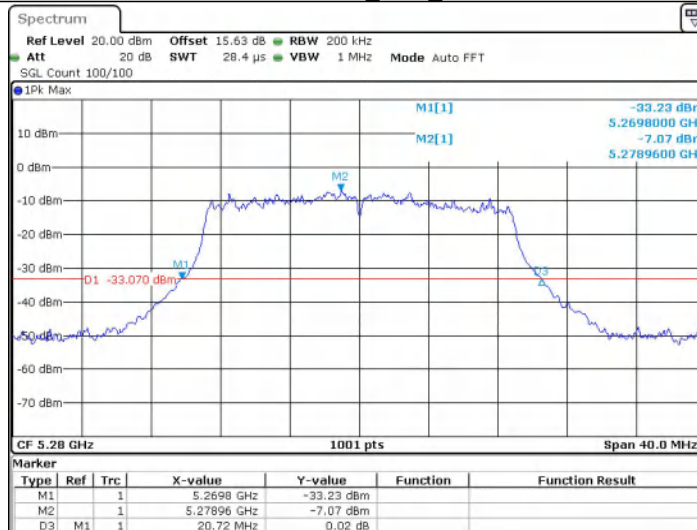
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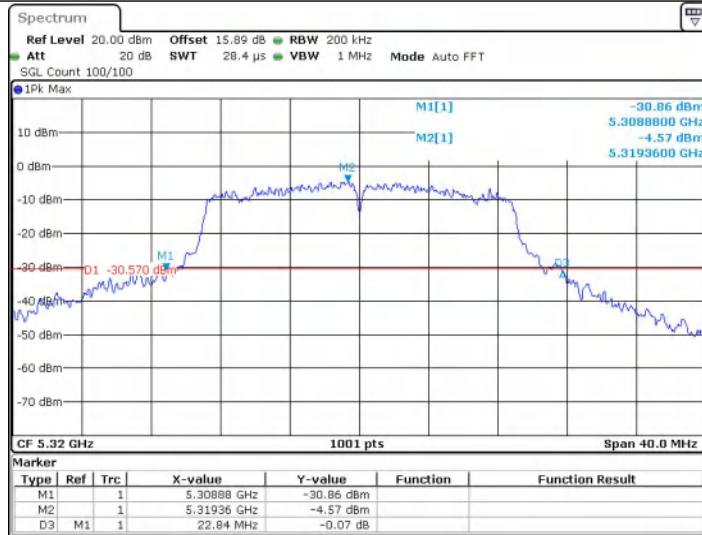
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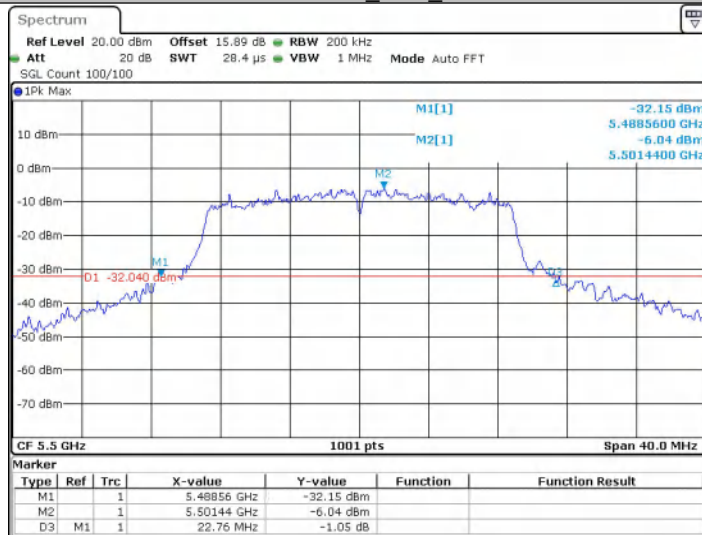
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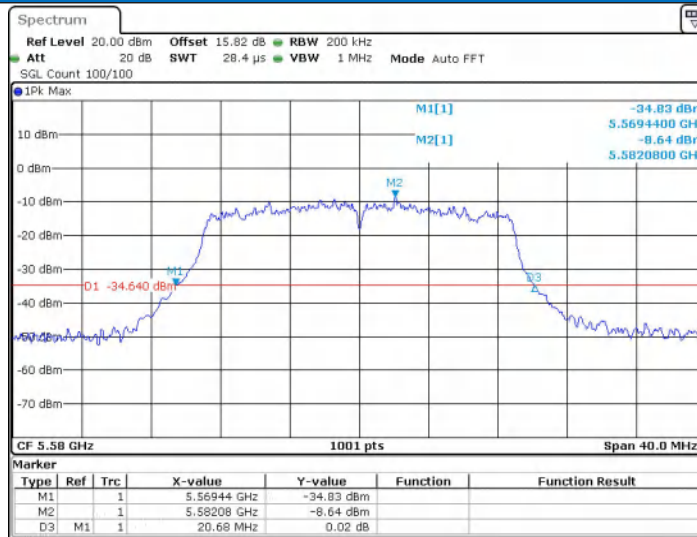
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11AC20SISO_Ant2_5500



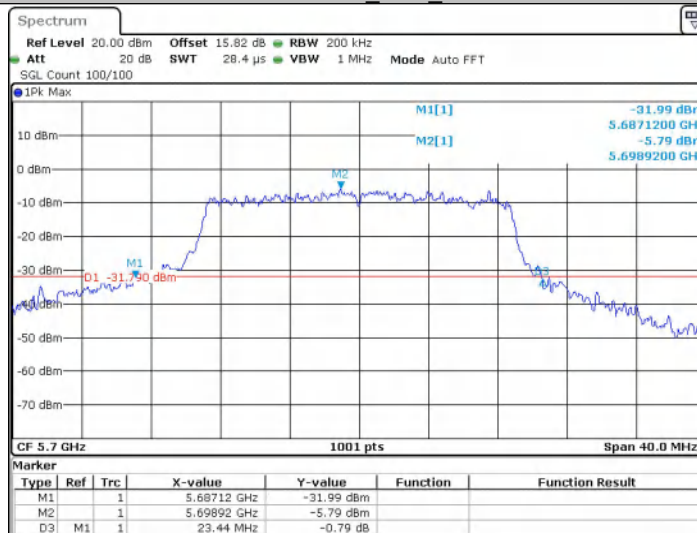
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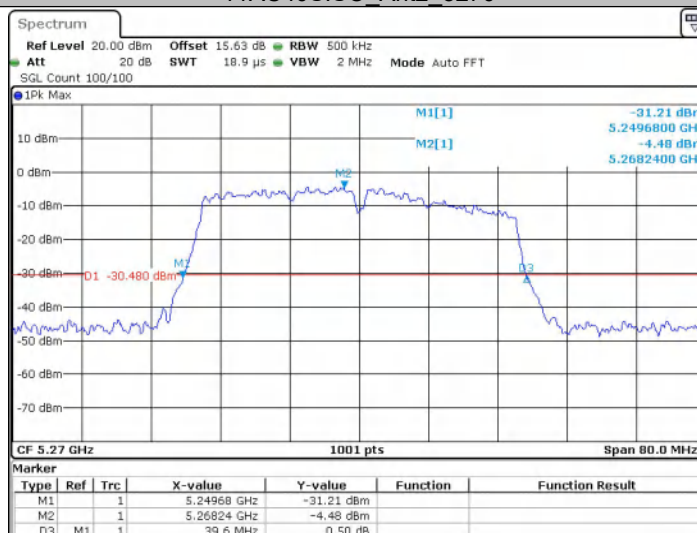
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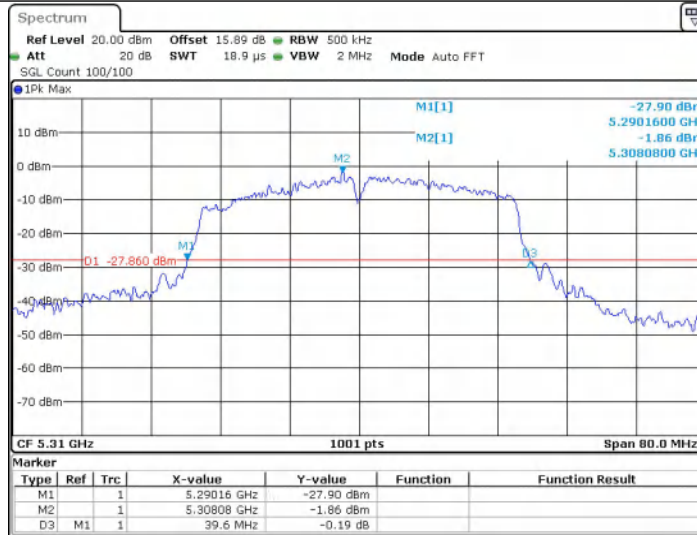
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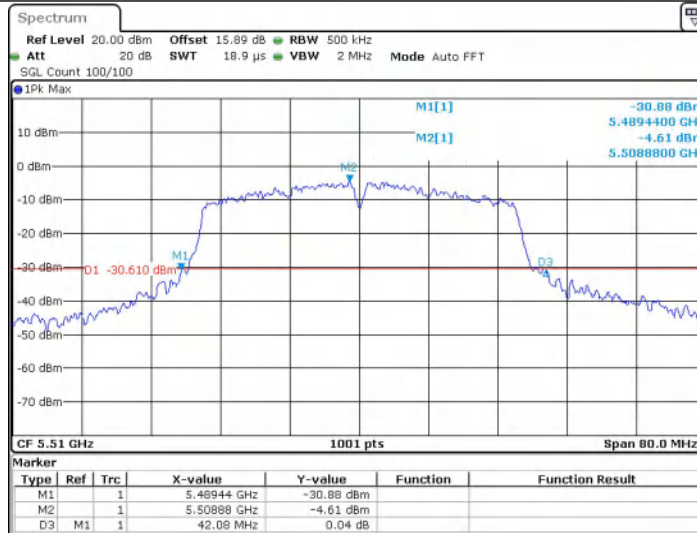
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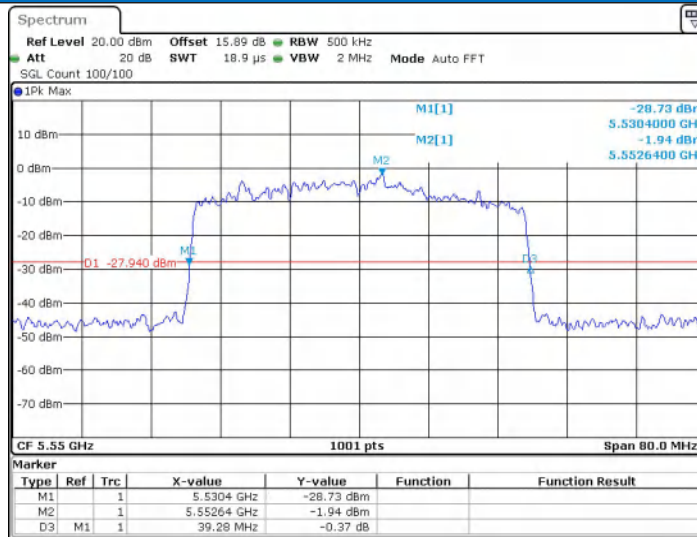
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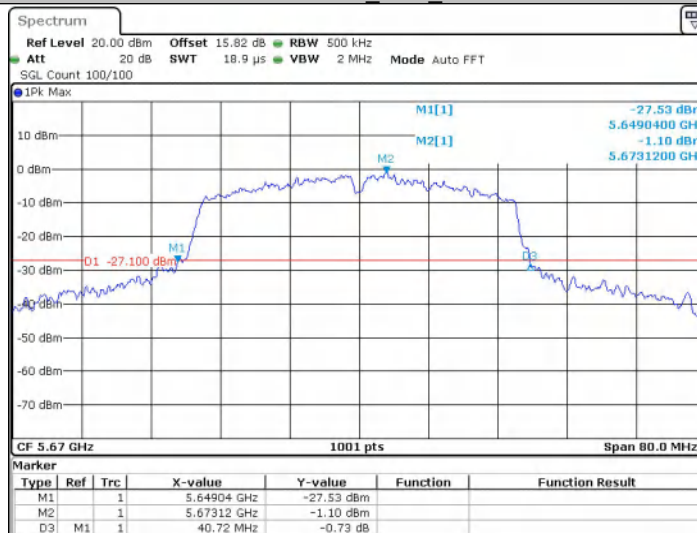
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11AC40SISO_Ant2_5550



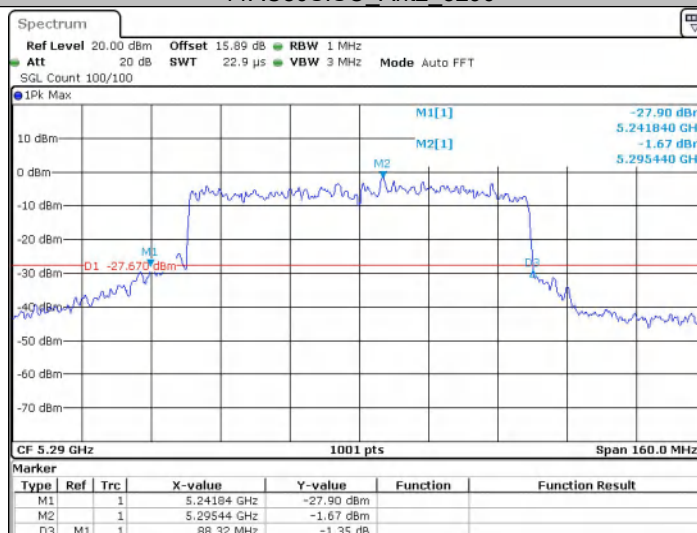
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11AC40SISO_Ant2_5670



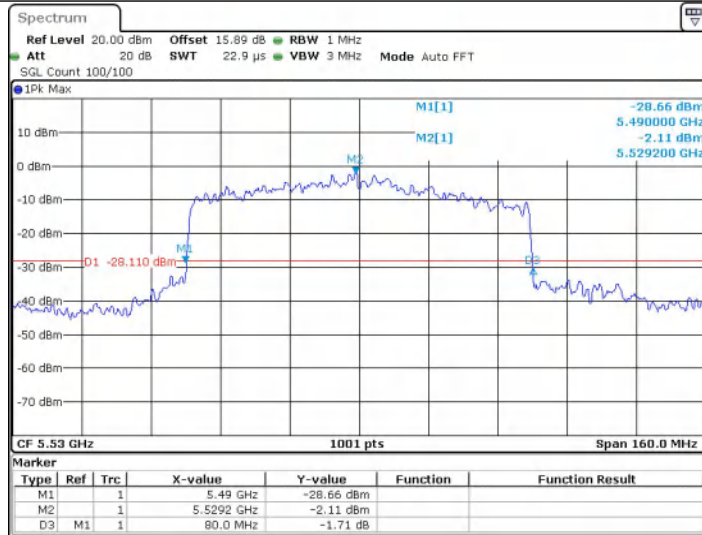
Date: 19 JUN 2025 16:05:52

11AC80SISO_Ant2_5290



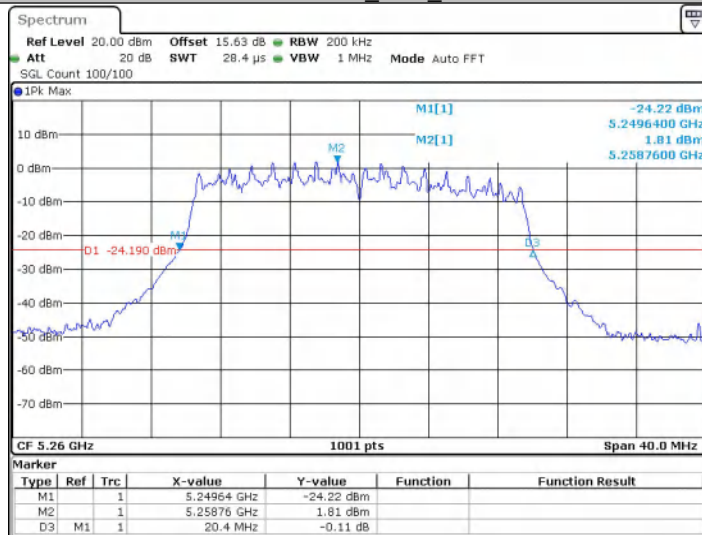
Date: 10 APR 2025 10:26:09

11AC80SISO_Ant2_5530



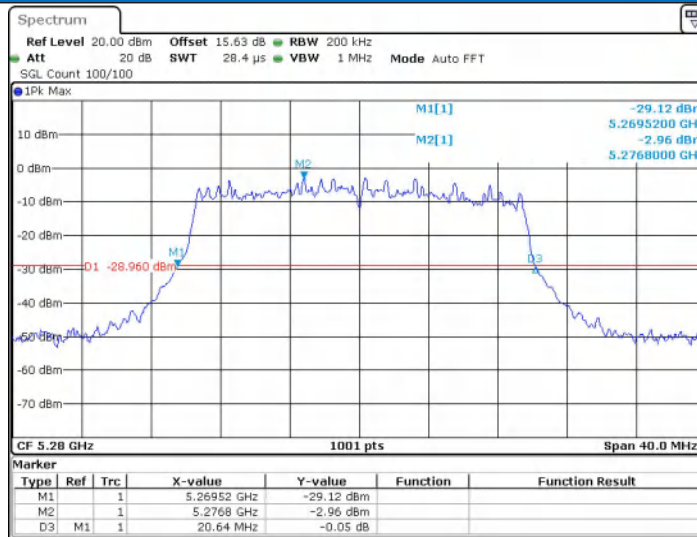
Date: 10.APR.2025 10:29:33

11AX20SISO_Ant2_5260



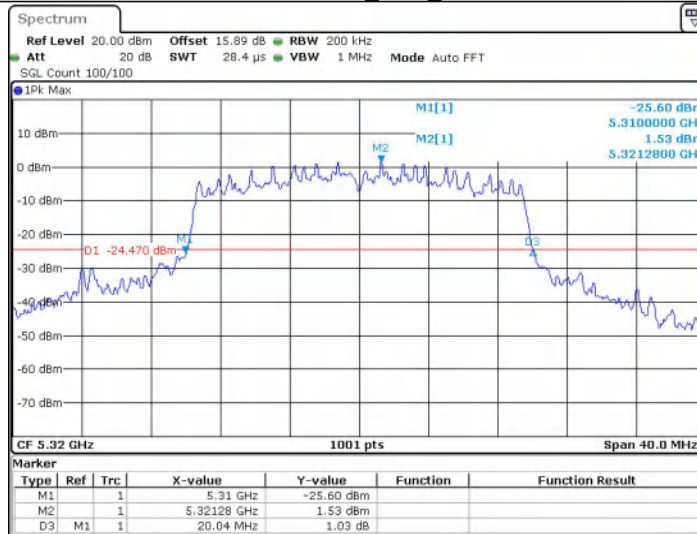
Date: 10.APR.2025 10:40:13

11AX20SISO_Ant2_5280



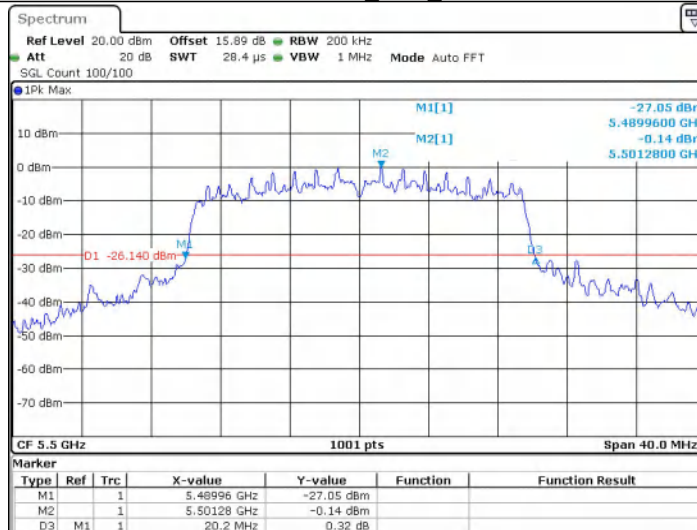
Date: 10 APR 2025 10:42:38

11AX20SISO_Ant2_5320



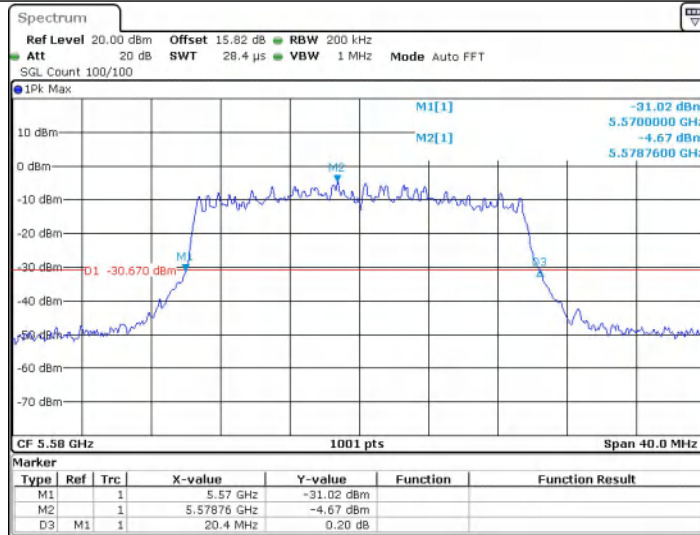
Date: 10 APR 2025 10:44:28

11AX20SISO_Ant2_5500



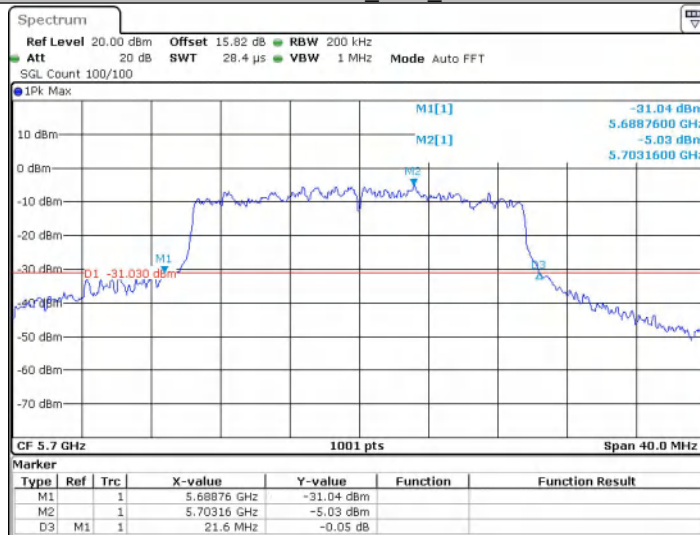
Date: 10 APR 2025 10:47:50

11AX20SISO_Ant2_5580



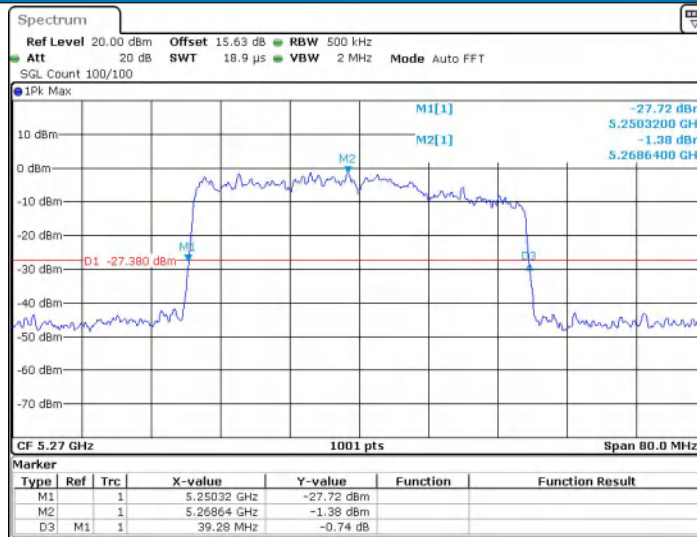
Date: 10 APR 2025 10:51:44

11AX20SISO_Ant2_5700



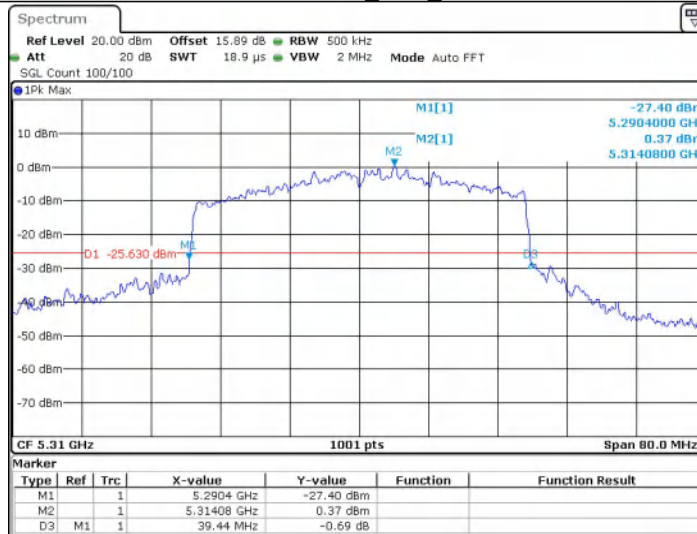
Date: 23 JUN 2025 13:12:22

11AX40SISO_Ant2_5270



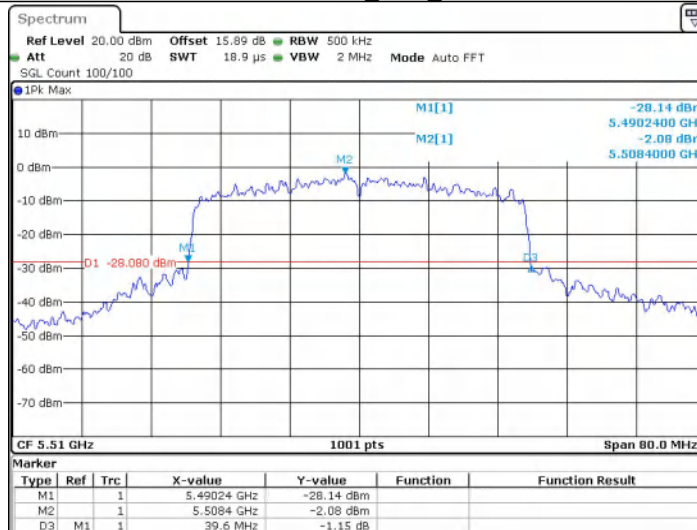
Date: 10 APR 2025 10:57:30

11AX40SISO_Ant2_5310



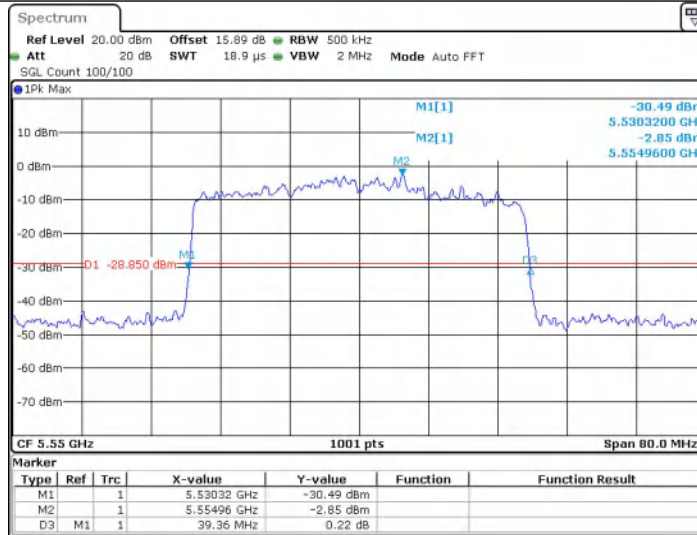
Date: 10 APR 2025 11:00:59

11AX40SISO_Ant2_5510



Date: 10 APR 2025 11:03:06

11AX40SISO_Ant2_5550



Date: 10 APR 2025 11:06:49

11AX40SISO_Ant2_5670

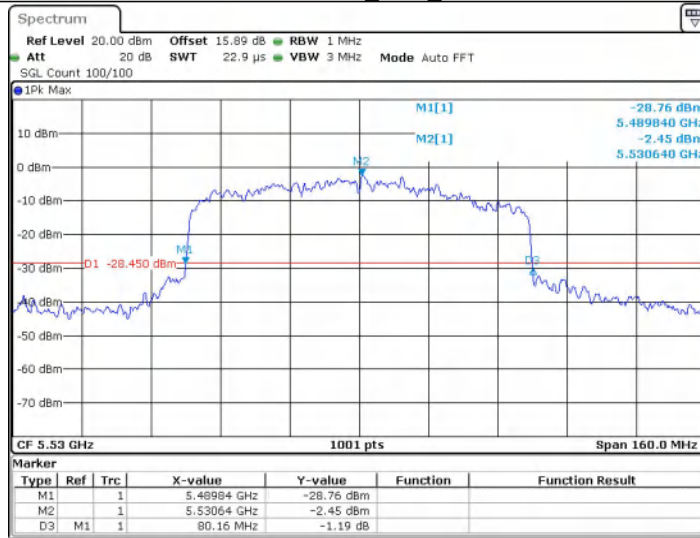


Date: 23 JUN 2025 13:13:46

11AX80SISO_Ant2_5290



11AX80SISO_Ant2_5530



Appendix B): Maximum Conduct Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

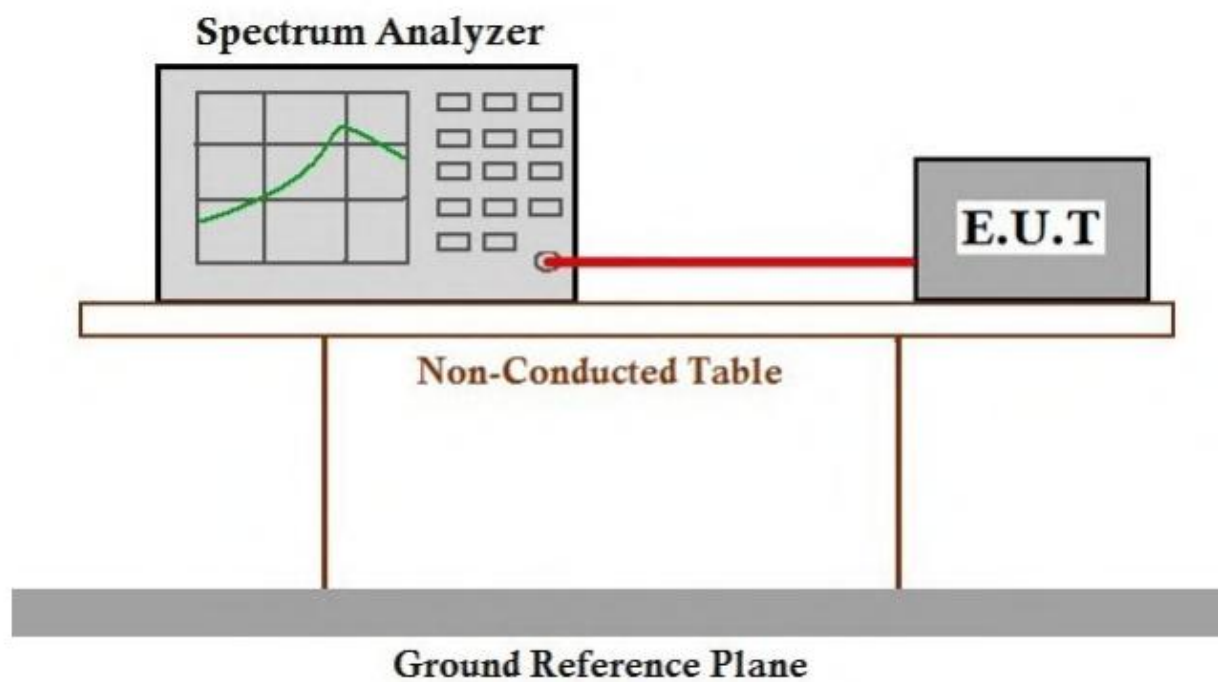
Frequency band(MHz)	Limit
5150-5250	$\leq 1\text{W}(30\text{dBm})$ for Indoor device
	$\leq 250\text{mW}(24\text{dBm})$ for client device
5250-5350	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5470-5725	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5725-5850	$\leq 1\text{W}(30\text{dBm})$
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Test Procedure:

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (1) Set RBW = 1 MHz.
- (2) Set VBW ≥ 3 MHz.
- (3) Detector = power average
- (4) Sweep time = auto.
- (5) Add duty cycle to the measured average power.

Test Setup Diagram



Measurement Data

Ant1:

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	8.75	≤23.17	PASS
		5280	5.50	≤23.17	PASS
		5320	8.76	≤23.17	PASS
		5500	8.01	≤22.39	PASS
		5580	5.52	≤22.39	PASS
		5700	8.54	≤22.39	PASS
11N20SISO	Ant1	5260	8.97	≤23.17	PASS
		5280	5.45	≤23.17	PASS
		5320	8.79	≤23.17	PASS
		5500	8.29	≤22.39	PASS
		5580	5.48	≤22.39	PASS
		5700	6.90	≤22.39	PASS
11N40SISO	Ant1	5270	7.45	≤23.17	PASS
		5310	8.42	≤23.17	PASS
		5510	8.21	≤22.39	PASS
		5550	7.72	≤22.39	PASS
		5670	9.26	≤22.39	PASS
11AC20SISO	Ant1	5260	8.83	≤23.17	PASS
		5280	5.35	≤23.17	PASS
		5320	8.66	≤23.17	PASS
		5500	8.11	≤22.39	PASS
		5580	5.43	≤22.39	PASS
		5700	5.28	≤22.39	PASS
11AC40SISO	Ant1	5270	7.39	≤23.17	PASS
		5310	8.37	≤23.17	PASS
		5510	8.31	≤22.39	PASS
		5550	8.10	≤22.39	PASS
		5670	7.96	≤22.39	PASS
11AC80SISO	Ant1	5290	8.55	≤23.17	PASS
		5530	9.03	≤22.39	PASS
11AX20SISO	Ant1	5260	10.75	≤23.17	PASS
		5280	7.32	≤23.17	PASS
		5320	10.56	≤23.17	PASS

			5500	10.11	≤ 22.39	PASS
			5580	7.30	≤ 22.39	PASS
			5700	5.18	≤ 22.39	PASS
	11AX40SIS O	Ant1	5270	9.17	≤ 23.17	PASS
			5310	10.14	≤ 23.17	PASS
			5510	9.38	≤ 22.39	PASS
			5550	8.55	≤ 22.39	PASS
			5670	7.55	≤ 22.39	PASS
	11AX80SIS O	Ant1	5290	7.85	≤ 23.17	PASS
			5530	8.30	≤ 22.39	PASS

Limit=Conducted output power Limit-(gains-6dBi)

gain:

6.7dBi@5GHz: Wi-Fi: U-NII-1

6.83dBi@5GHz: Wi-Fi: U-NII-2A

7.61dBi@5GHz: Wi-Fi: U-NII-2C

6.71dBi@5GHz: Wi-Fi: U-NII-3

Ant2:

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5260	8.45	≤23.17	PASS
		5280	5.16	≤23.17	PASS
		5320	8.17	≤23.17	PASS
		5500	6.58	≤22.39	PASS
		5580	2.92	≤22.39	PASS
		5700	8.12	≤22.39	PASS
11N20SISO	Ant2	5260	6.84	≤23.17	PASS
		5280	3.66	≤23.17	PASS
		5320	6.60	≤23.17	PASS
		5500	4.78	≤22.39	PASS
		5580	1.50	≤22.39	PASS
		5700	6.72	≤22.39	PASS
11N40SISO	Ant2	5270	5.54	≤23.17	PASS
		5310	6.11	≤23.17	PASS
		5510	4.89	≤22.39	PASS
		5550	3.61	≤22.39	PASS
		5670	9.16	≤22.39	PASS
11AC20SISO	Ant2	5260	6.87	≤23.17	PASS
		5280	3.58	≤23.17	PASS
		5320	6.57	≤23.17	PASS
		5500	4.77	≤22.39	PASS
		5580	1.43	≤22.39	PASS
		5700	5.45	≤22.39	PASS
11AC40SISO	Ant2	5270	5.43	≤23.17	PASS
		5310	6.15	≤23.17	PASS
		5510	4.85	≤22.39	PASS
		5550	5.08	≤22.39	PASS
		5670	8.01	≤22.39	PASS
11AC80SISO	Ant2	5290	6.19	≤23.17	PASS
		5530	5.18	≤22.39	PASS
11AX20SISO	Ant2	5260	9.15	≤23.17	PASS
		5280	5.87	≤23.17	PASS
		5320	8.76	≤23.17	PASS
		5500	7.04	≤22.39	PASS

		5580	3.54	≤ 22.39	PASS
		5700	5.13	≤ 22.39	PASS
11AX40SIS O	Ant2	5270	6.91	≤ 23.17	PASS
		5310	7.61	≤ 23.17	PASS
		5510	6.25	≤ 22.39	PASS
		5550	5.09	≤ 22.39	PASS
		5670	7.56	≤ 22.39	PASS
11AX80SIS O	Ant2	5290	6.13	≤ 23.17	PASS
		5530	5.30	≤ 22.39	PASS

Limit=Conducted output power Limit-(gains-6dBi)

gain:

6.7dBi@5GHz: Wi-Fi: U-NII-1

6.83dBi@5GHz: Wi-Fi: U-NII-2A

7.61dBi@5GHz: Wi-Fi: U-NII-2C

6.71dBi@5GHz: Wi-Fi: U-NII-3

Ant1+Ant2:

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11N20MIM O	Ant1+Ant2	5260	11.04	≤20.16	PASS
		5280	7.66	≤20.16	PASS
		5320	10.84	≤20.16	PASS
		5500	9.89	≤19.38	PASS
		5580	6.94	≤19.38	PASS
		5700	9.82	≤19.38	PASS
11N40MIM O	Ant1+Ant2	5270	9.61	≤20.16	PASS
		5310	10.43	≤20.16	PASS
		5510	9.87	≤19.38	PASS
		5550	9.14	≤19.38	PASS
		5670	12.22	≤19.38	PASS
11AC20MI MO	Ant1+Ant2	5260	10.97	≤20.16	PASS
		5280	7.56	≤20.16	PASS
		5320	10.75	≤20.16	PASS
		5500	9.76	≤19.38	PASS
		5580	6.89	≤19.38	PASS
		5700	8.38	≤19.38	PASS
11AC40MI MO	Ant1+Ant2	5270	9.53	≤20.16	PASS
		5310	10.41	≤20.16	PASS
		5510	9.93	≤19.38	PASS
		5550	9.86	≤19.38	PASS
		5670	11.00	≤19.38	PASS
11AC80MI MO	Ant1+Ant2	5290	10.54	≤20.16	PASS
		5530	10.53	≤19.38	PASS
11AX20MIM O	Ant1+Ant2	5260	13.03	≤20.16	PASS
		5280	9.67	≤20.16	PASS
		5320	12.76	≤20.16	PASS
		5500	11.85	≤19.38	PASS
		5580	8.83	≤19.38	PASS
		5700	8.17	≤19.38	PASS
11AX40MIM O	Ant1+Ant2	5270	11.20	≤20.16	PASS
		5310	12.07	≤20.16	PASS
		5510	11.10	≤19.38	PASS
		5550	10.17	≤19.38	PASS

		5670	10.57	≤ 19.38	PASS
11AX80MIM	Ant1+Ant2	5290	10.08	≤ 20.16	PASS
O		5530	10.06	≤ 19.38	PASS

MIMO limit=Conducted output power Limit-(directional gains-6dBi)

Directional gain:

9.71dBi@5GHz: Wi-Fi: U-NII-1

9.84dBi@5GHz: Wi-Fi: U-NII-2A

10.62dBi@5GHz: Wi-Fi: U-NII-2C

9.72dBi@5GHz: Wi-Fi: U-NII-3

Remark:

Av.Power=Meas.Level+10 log (1/duty cycle)

E.i.r.p=Av.Power+G,

G = antenna gain in dBi.

Appendix C): Maximum Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Test Procedure:

For 5150-5725MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 1MHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.

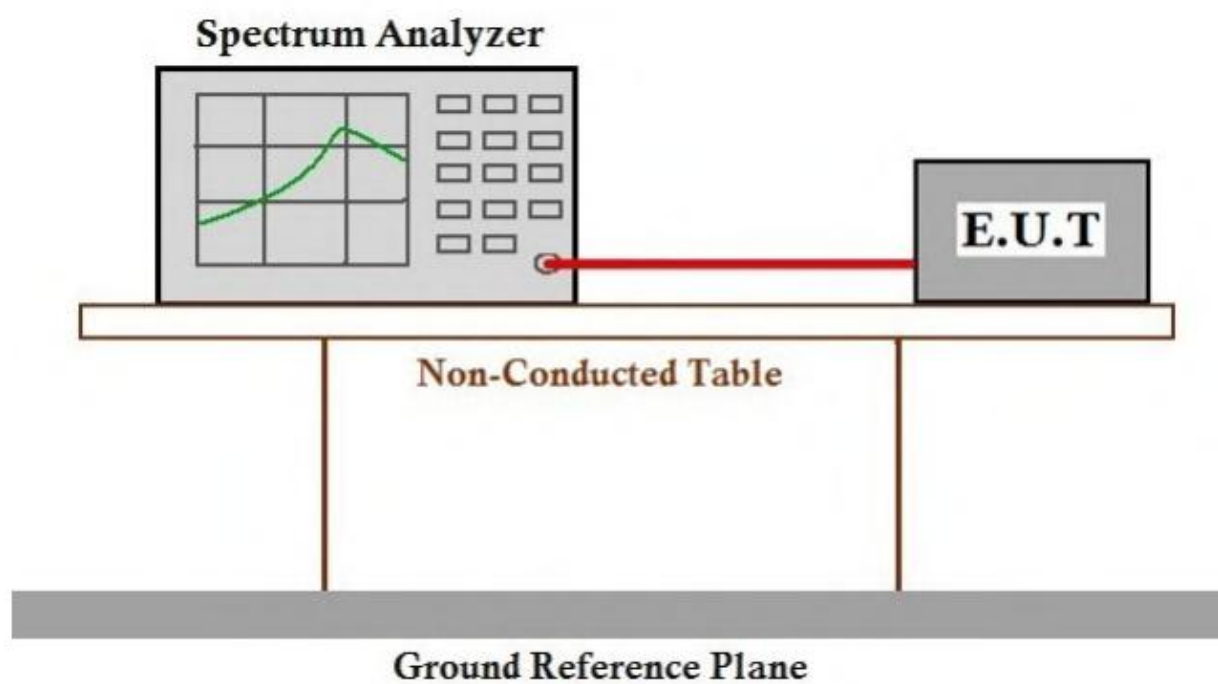
For 5725-5850MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 500KHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.

Limit:

Frequency band(MHz)	Limit
5150-5250	$\leq 17\text{dBm}$ in 1MHz for Indoor device
	$\leq 11\text{dBm}$ in 1MHz for client device
5250-5350	$\leq 11\text{dBm}$ in 1MHz for client device
5470-5725	$\leq 11\text{dBm}$ in 1MHz for client device
5725-5850	$\leq 30\text{dBm}$ in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

Test Setup Diagram



Result Table

Ant1:

TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5260	-1.01	≤10.17	PASS
	5280	-5.59	≤10.17	PASS
	5320	-1.82	≤10.17	PASS
	5500	-2.56	≤9.39	PASS
	5580	-4.69	≤9.39	PASS
	5700	-1.94	≤9.39	PASS
11N20SISO	5260	-0.93	≤10.17	PASS
	5280	-4.99	≤10.17	PASS
	5320	-1.22	≤10.17	PASS
	5500	-1.77	≤9.39	PASS
	5580	-4.88	≤9.39	PASS
	5700	-3.46	≤9.39	PASS
11N40SISO	5270	-5.39	≤10.17	PASS
	5310	-3.95	≤10.17	PASS
	5510	-4.93	≤9.39	PASS
	5550	-4.96	≤9.39	PASS
	5670	-3.84	≤9.39	PASS
11AC20SISO	5260	-1.72	≤10.17	PASS
	5280	-5.38	≤10.17	PASS
	5320	-1.50	≤10.17	PASS
	5500	-2.75	≤9.39	PASS
	5580	-5.60	≤9.39	PASS
	5700	-5.10	≤9.39	PASS
11AC40SISO	5270	-5.41	≤10.17	PASS
	5310	-3.58	≤10.17	PASS
	5510	-3.74	≤9.39	PASS
	5550	-4.33	≤9.39	PASS
	5670	-4.67	≤9.39	PASS
11AC80SISO	5290	-8.35	≤10.17	PASS
	5530	-6.87	≤9.39	PASS
11AX20SISO	5260	0.11	≤10.17	PASS
	5280	-3.56	≤10.17	PASS
	5320	-0.15	≤10.17	PASS
	5500	-0.63	≤9.39	PASS

		5580	-3.94	≤ 9.39	PASS
		5700	-5.46	≤ 9.39	PASS
11AX40SISO		5270	-4.22	≤ 10.17	PASS
		5310	-2.55	≤ 10.17	PASS
		5510	-2.94	≤ 9.39	PASS
		5550	-4.03	≤ 9.39	PASS
		5670	-5.64	≤ 9.39	PASS
11AX80SISO		5290	-8.57	≤ 10.17	PASS
		5530	-7.07	≤ 9.39	PASS

PSD Limit=Conducted output power Limit-(gains-6dBi)

gain:

6.7dBi@5GHz: Wi-Fi: U-NII-1

6.83dBi@5GHz: Wi-Fi: U-NII-2A

7.61dBi@5GHz: Wi-Fi: U-NII-2C

6.71dBi@5GHz: Wi-Fi: U-NII-3

Ant2:

TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5260	-2.10	≤10.17	PASS
	5280	-5.10	≤10.17	PASS
	5320	-1.52	≤10.17	PASS
	5500	-3.57	≤9.39	PASS
	5580	-8.00	≤9.39	PASS
	5700	-2.03	≤9.39	PASS
11N20SISO	5260	-3.52	≤10.17	PASS
	5280	-6.84	≤10.17	PASS
	5320	-3.95	≤10.17	PASS
	5500	-5.65	≤9.39	PASS
	5580	-9.17	≤9.39	PASS
	5700	-3.96	≤9.39	PASS
11N40SISO	5270	-7.49	≤10.17	PASS
	5310	-5.61	≤10.17	PASS
	5510	-8.21	≤9.39	PASS
	5550	-8.63	≤9.39	PASS
	5670	-3.65	≤9.39	PASS
11AC20SISO	5260	-3.53	≤10.17	PASS
	5280	-6.91	≤10.17	PASS
	5320	-3.45	≤10.17	PASS
	5500	-5.71	≤9.39	PASS
	5580	-8.62	≤9.39	PASS
	5700	-5.18	≤9.39	PASS
11AC40SISO	5270	-7.61	≤10.17	PASS
	5310	-6.18	≤10.17	PASS
	5510	-7.15	≤9.39	PASS
	5550	-7.89	≤9.39	PASS
	5670	-4.87	≤9.39	PASS
11AC80SISO	5290	-10.68	≤10.17	PASS
	5530	-10.17	≤9.39	PASS
11AX20SISO	5260	-0.67	≤10.17	PASS
	5280	-5.05	≤10.17	PASS
	5320	-1.71	≤10.17	PASS
	5500	-4.07	≤9.39	PASS
	5580	-7.30	≤9.39	PASS

	5700	-5.95	≤ 9.39	PASS
11AX40SISO	5270	-6.44	≤ 10.17	PASS
	5310	-5.18	≤ 10.17	PASS
	5510	-6.50	≤ 9.39	PASS
	5550	-7.14	≤ 9.39	PASS
	5670	-5.70	≤ 9.39	PASS
11AX80SISO	5290	-10.76	≤ 10.17	PASS
	5530	-10.21	≤ 9.39	PASS

PSD Limit=Conducted output power Limit-(gains-6dBi)

gain:

6.7dBi@5GHz: Wi-Fi: U-NII-1

6.83dBi@5GHz: Wi-Fi: U-NII-2A

7.61dBi@5GHz: Wi-Fi: U-NII-2C

6.71dBi@5GHz: Wi-Fi: U-NII-3

Ant1+Ant2:

TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20MIMO	5260	0.98	≤7.16	PASS
	5280	-2.81	≤7.16	PASS
	5320	0.64	≤7.16	PASS
	5500	-0.28	≤6.38	PASS
	5580	-3.51	≤6.38	PASS
	5700	-0.69	≤6.38	PASS
11N40MIMO	5270	-3.30	≤7.16	PASS
	5310	-1.69	≤7.16	PASS
	5510	-3.26	≤6.38	PASS
	5550	-3.41	≤6.38	PASS
	5670	-0.73	≤6.38	PASS
11AC20MIMO	5260	0.48	≤7.16	PASS
	5280	-3.07	≤7.16	PASS
	5320	0.64	≤7.16	PASS
	5500	-0.97	≤6.38	PASS
	5580	-3.84	≤6.38	PASS
	5700	-2.13	≤6.38	PASS
11AC40MIMO	5270	-3.36	≤7.16	PASS
	5310	-1.68	≤7.16	PASS
	5510	-2.11	≤6.38	PASS
	5550	-2.74	≤6.38	PASS
	5670	-1.76	≤6.38	PASS
11AC80MIMO	5290	-6.35	≤7.16	PASS
	5530	-5.20	≤6.38	PASS
11AX20MIMO	5260	2.75	≤7.16	PASS
	5280	-1.23	≤7.16	PASS
	5320	2.15	≤7.16	PASS
	5500	0.99	≤6.38	PASS
	5580	-2.29	≤6.38	PASS
	5700	-2.69	≤6.38	PASS
11AX40MIMO	5270	-2.18	≤7.16	PASS
	5310	-0.66	≤7.16	PASS
	5510	-1.35	≤6.38	PASS
	5550	-2.30	≤6.38	PASS
	5670	-2.66	≤6.38	PASS

11AX80MIMO	5290	-6.52	≤7.16	PASS
	5530	-5.35	≤6.38	PASS

MIMO PSD limit=Conducted output power Limit-(directional gains-6dBi)

Directional gain:

9.71dBi@5GHz: Wi-Fi: U-NII-1

9.84dBi@5GHz: Wi-Fi: U-NII-2A

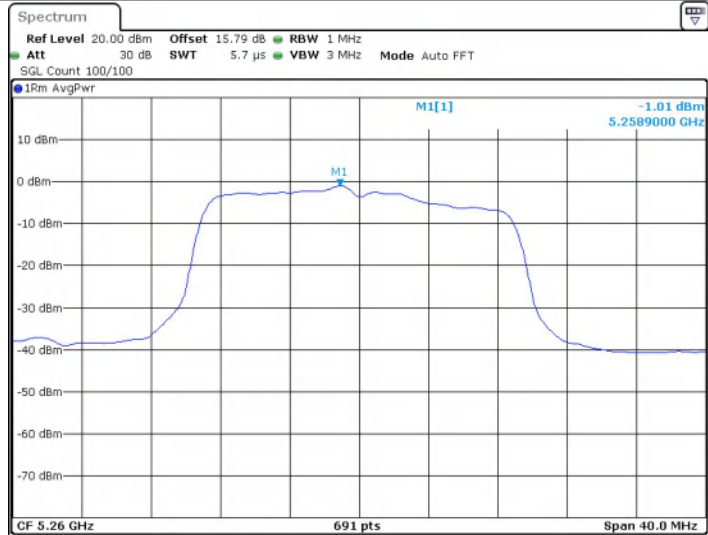
10.62dBi@5GHz: Wi-Fi: U-NII-2C

9.72dBi@5GHz: Wi-Fi: U-NII-3

Remark:

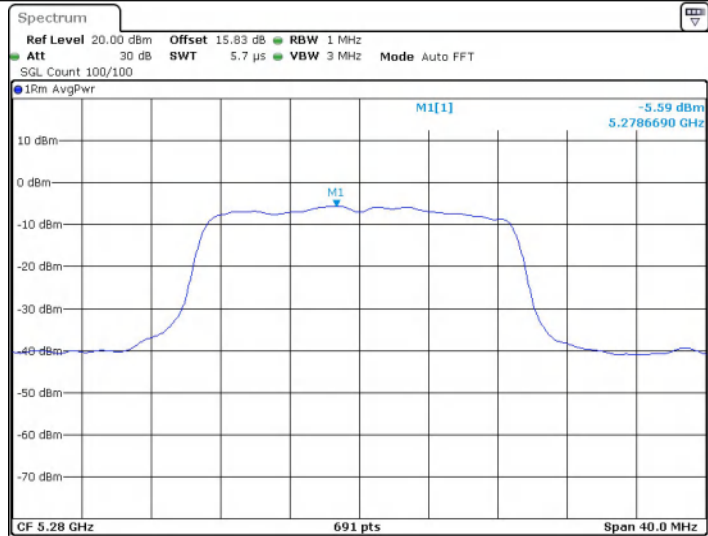
PSD = Meas PSD + Duty Cycle Factor

11A_Ant1_5260



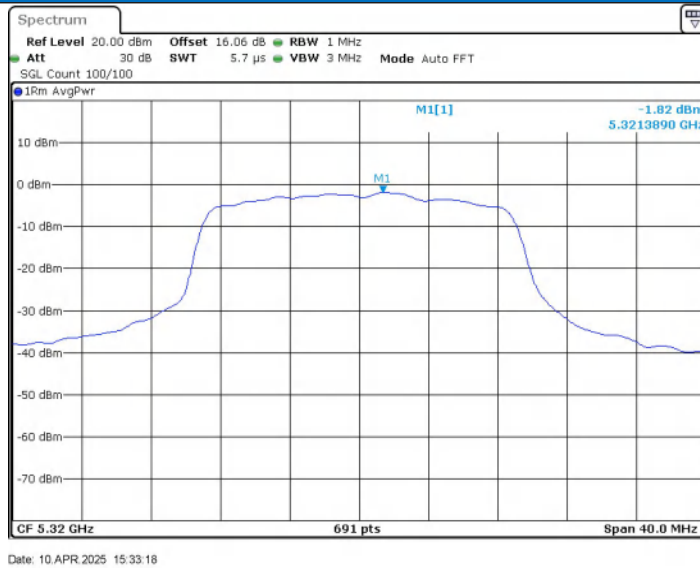
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11A_Ant1_5280

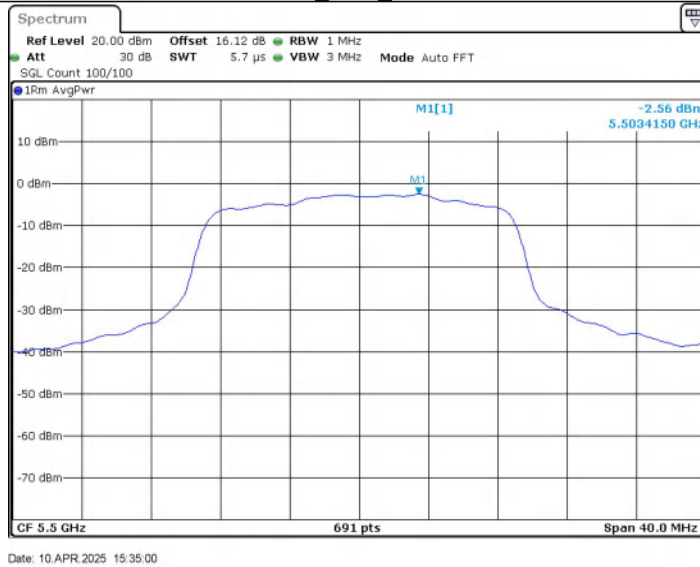


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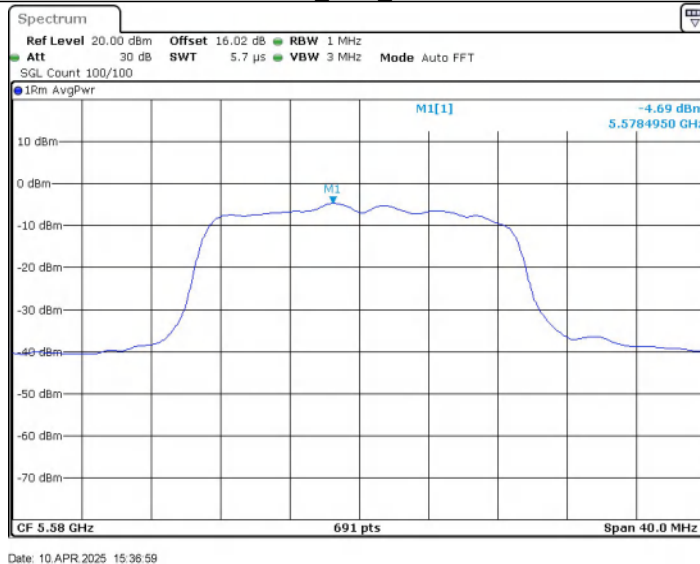
11A_Ant1_5320



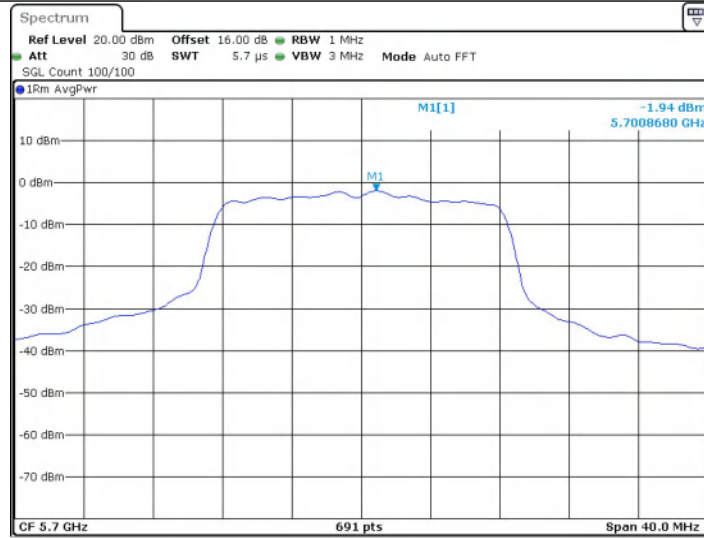
11A_Ant1_5500



11A_Ant1_5580

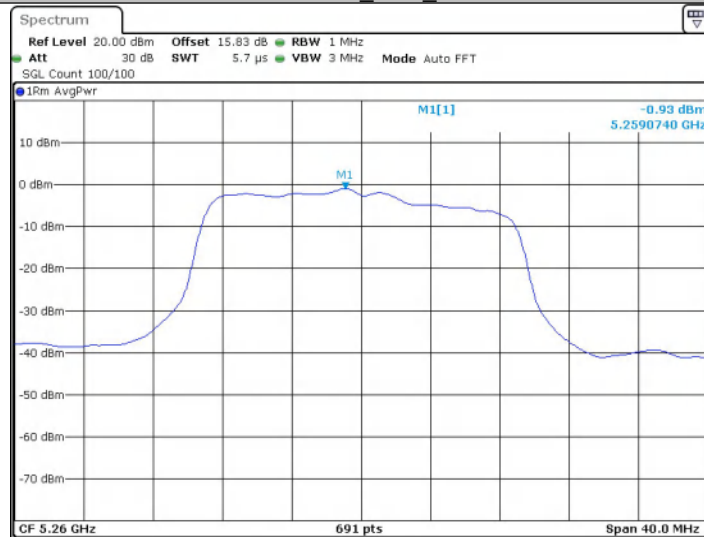


11A_Ant1_5700



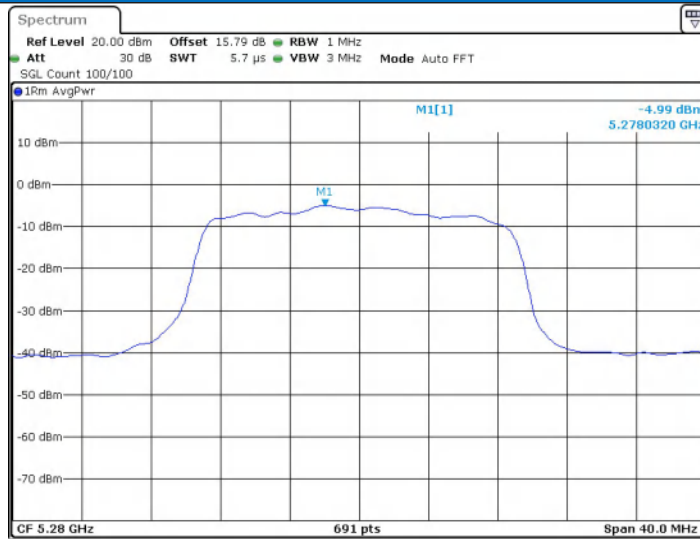
Date: 19 JUN 2025 11:33:06

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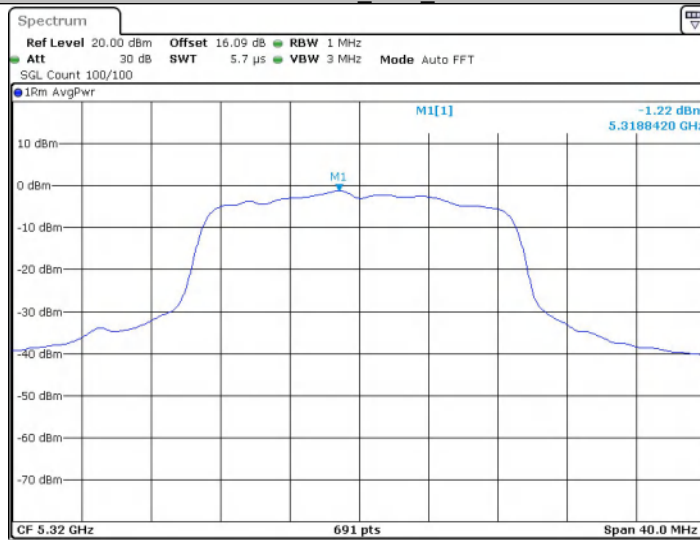
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11N20SISO_Ant1_5280



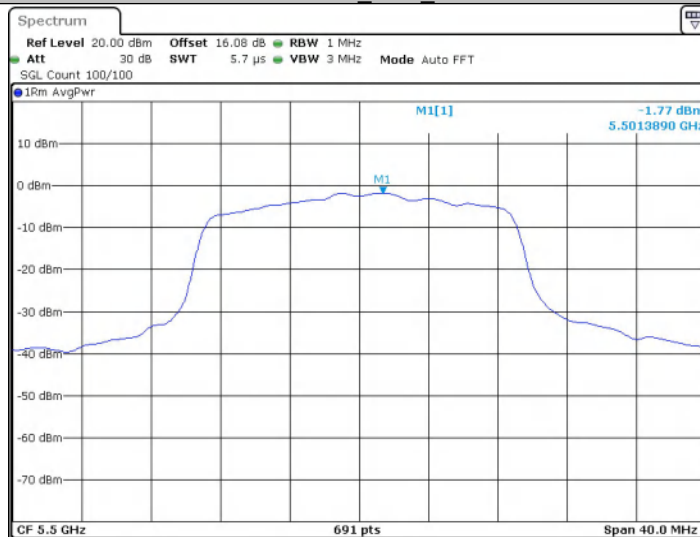
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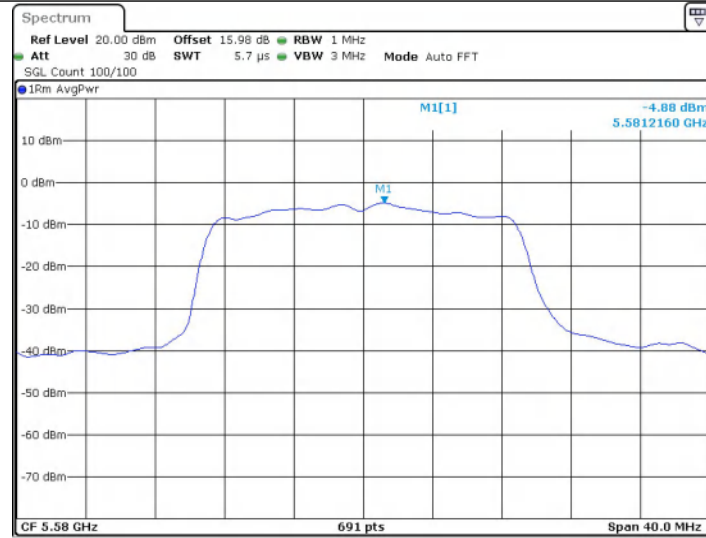
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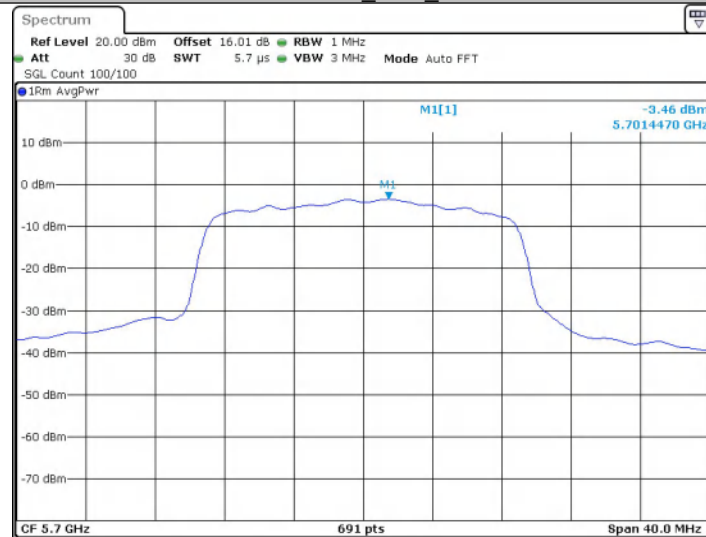
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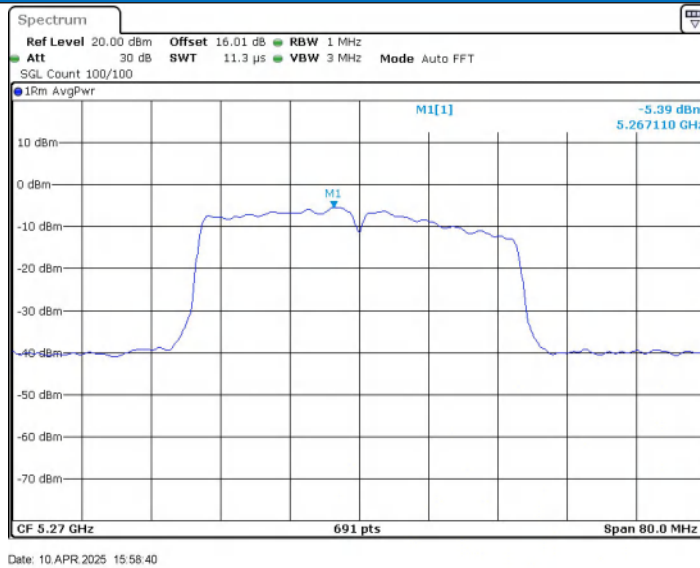
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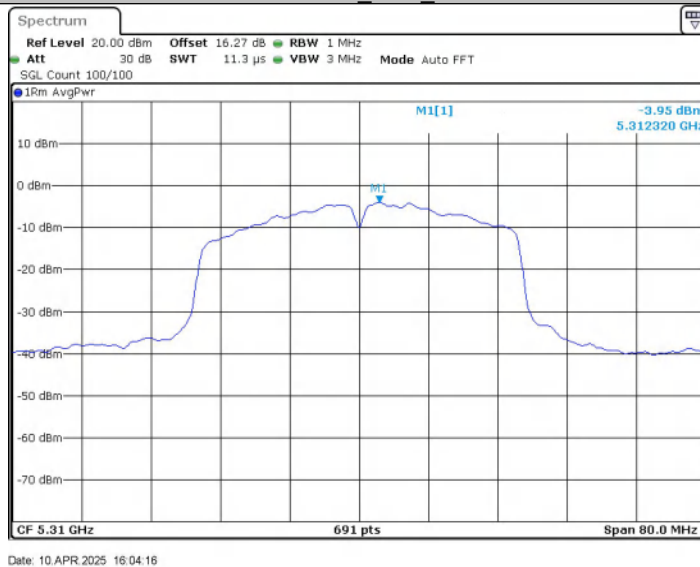


Date: 19.JUN.2025 11:35:09

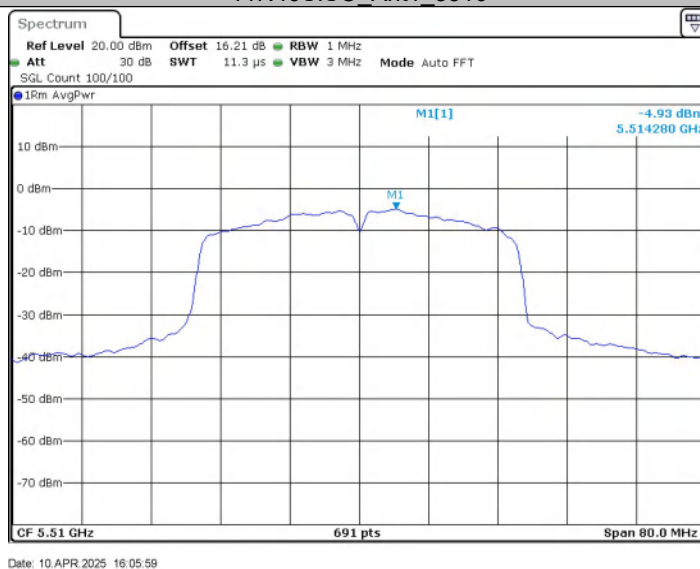
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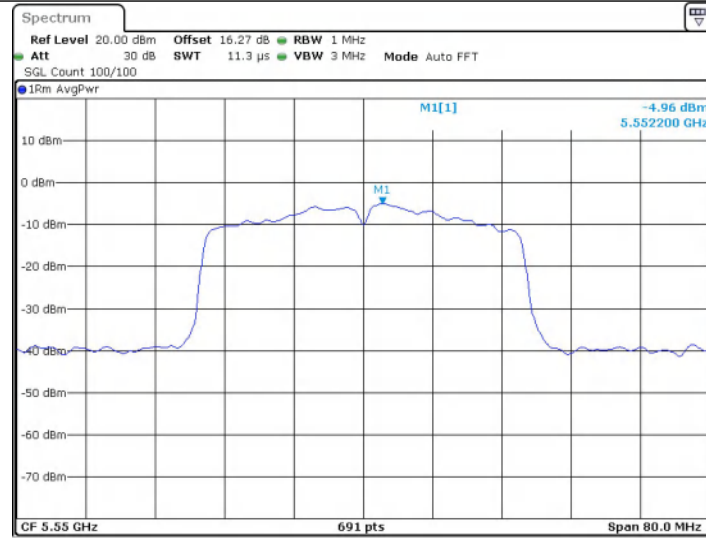
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11N40SISO_Ant1_5510

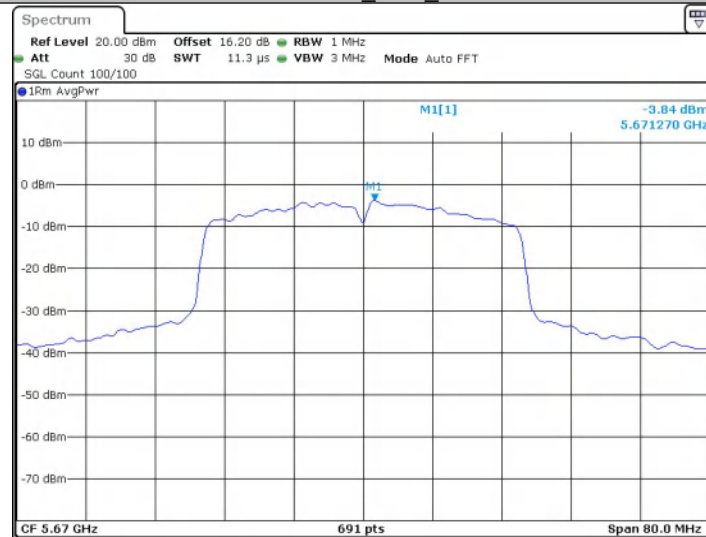


11N40SISO_Ant1_5550



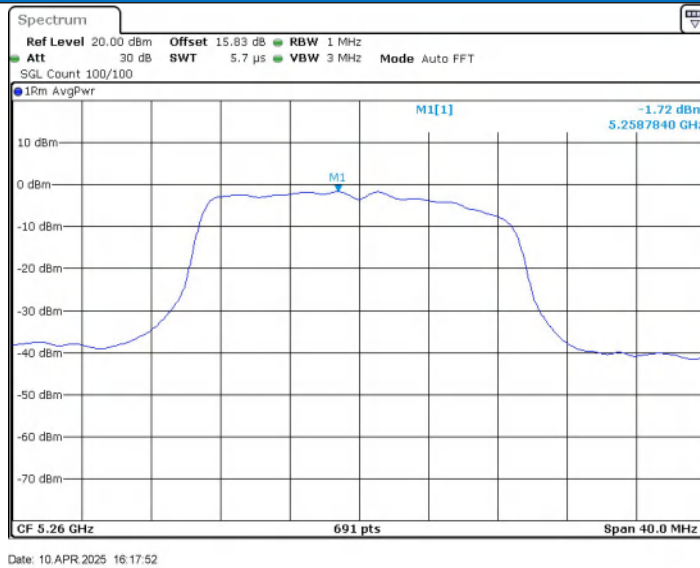
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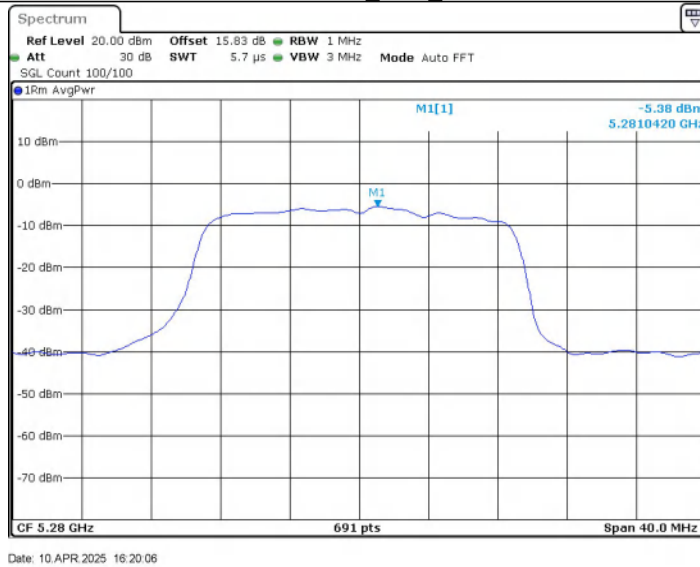


Date: 19 JUN 2025 12:00:02

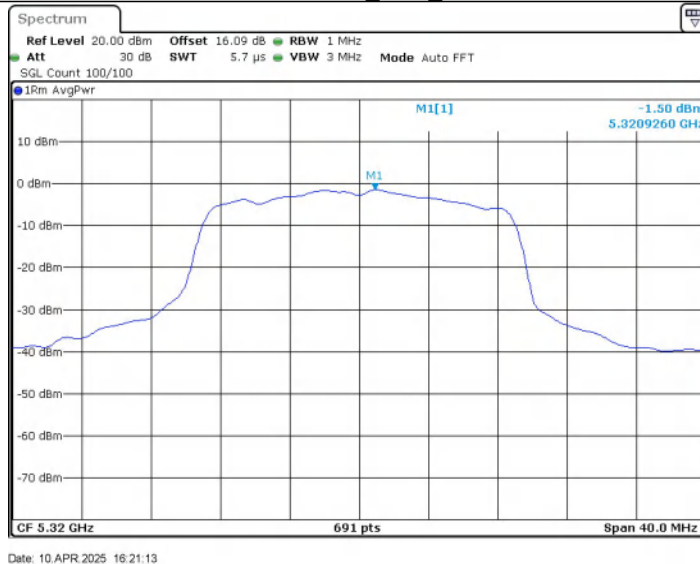
11AC20SISO_Ant1_5260



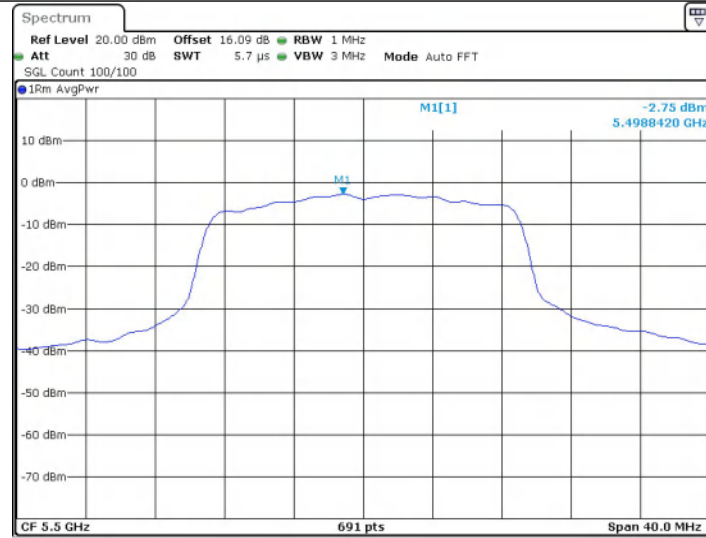
11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320

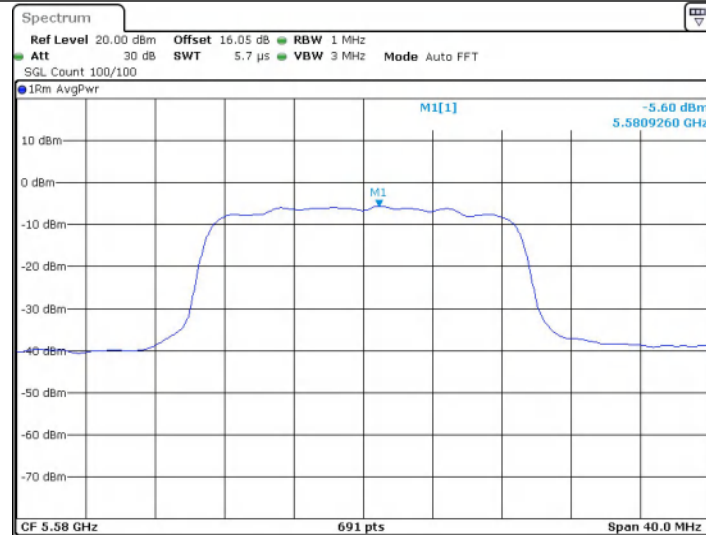


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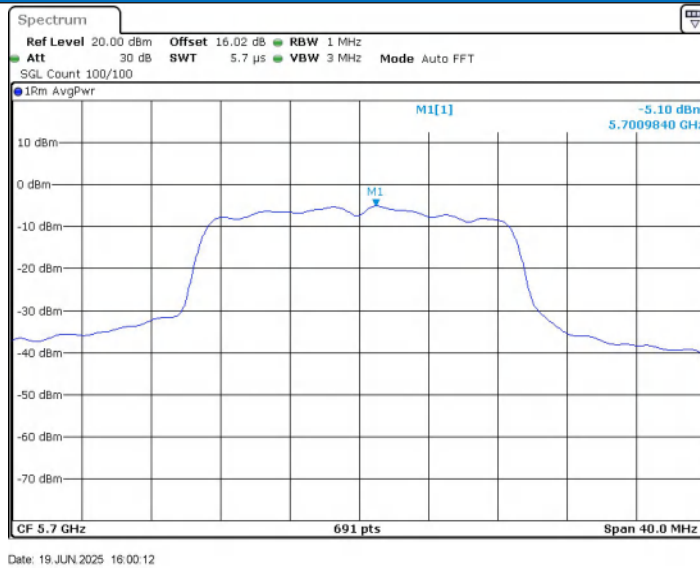
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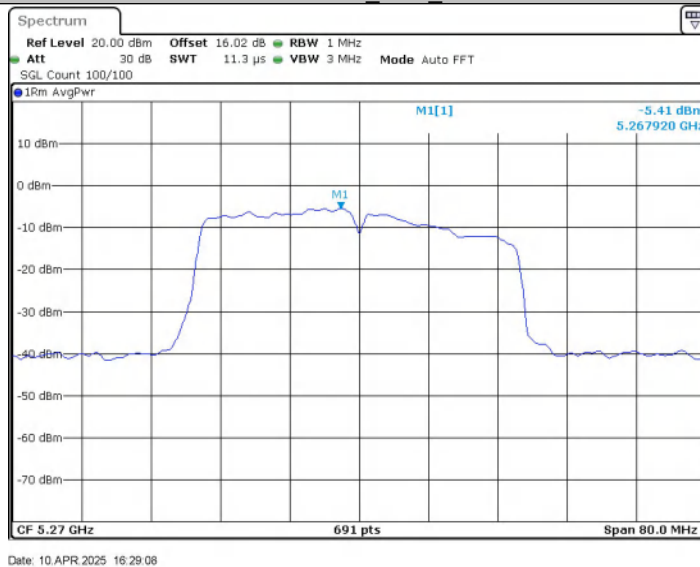


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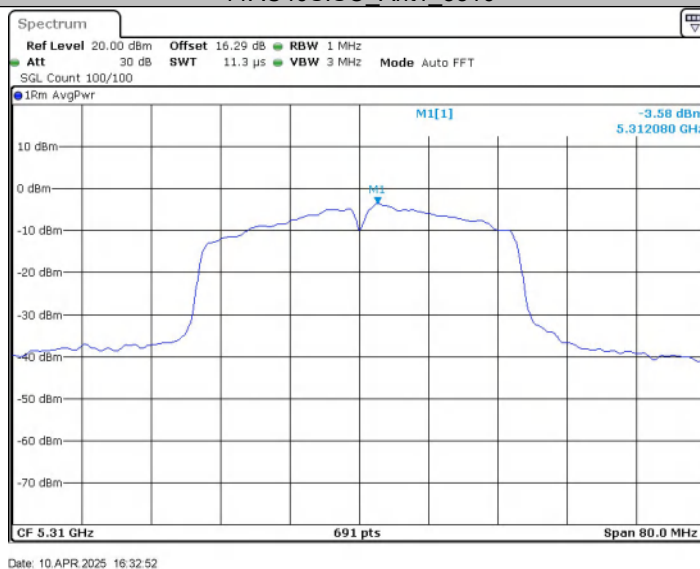
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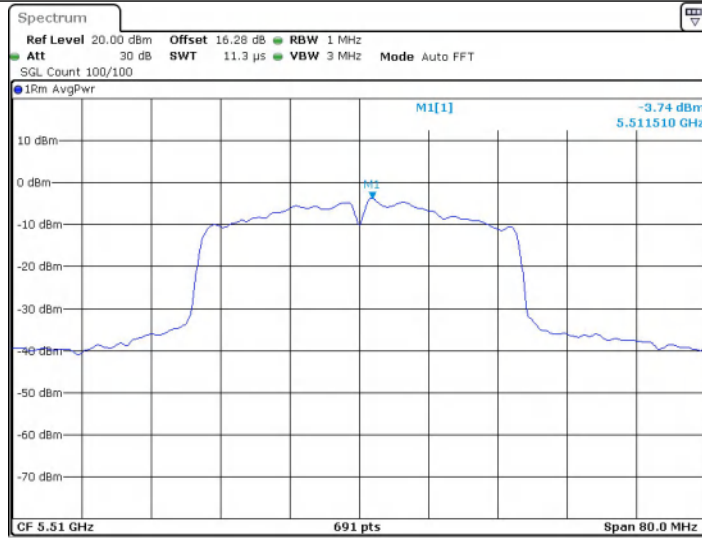
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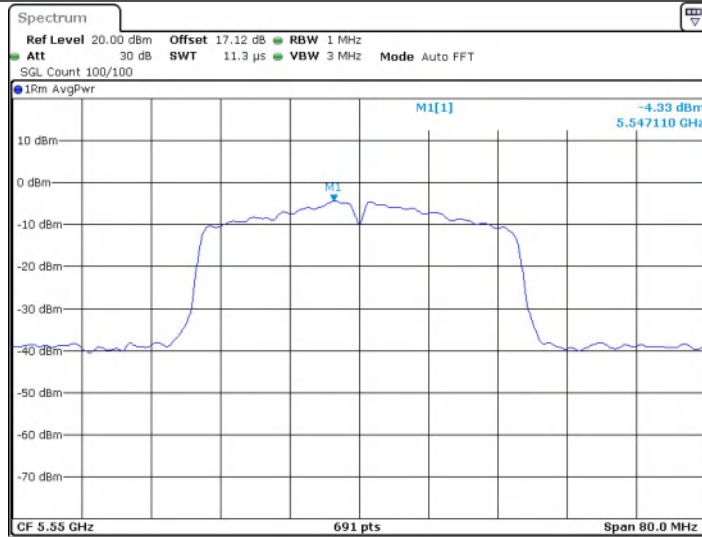
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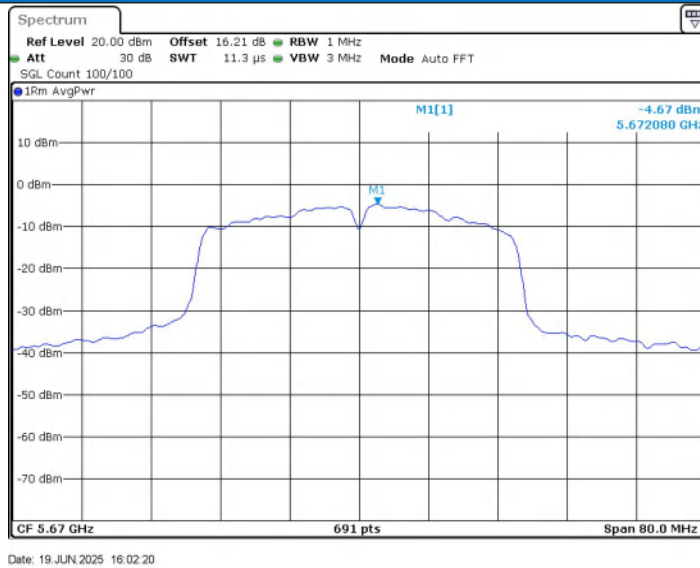
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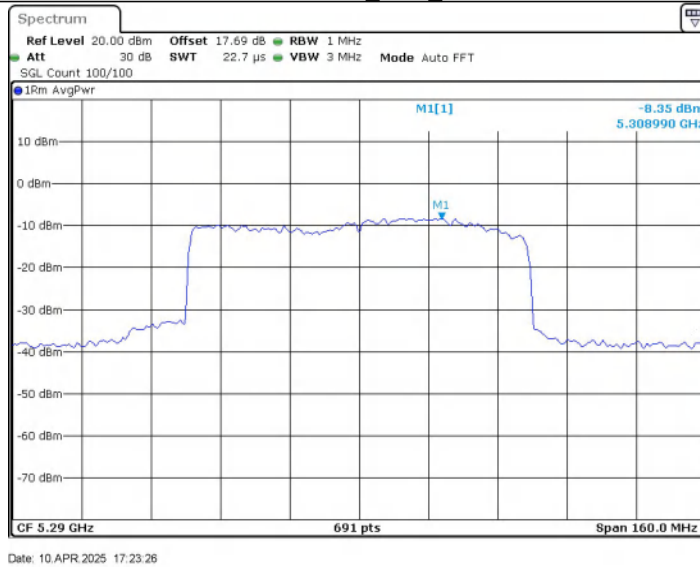
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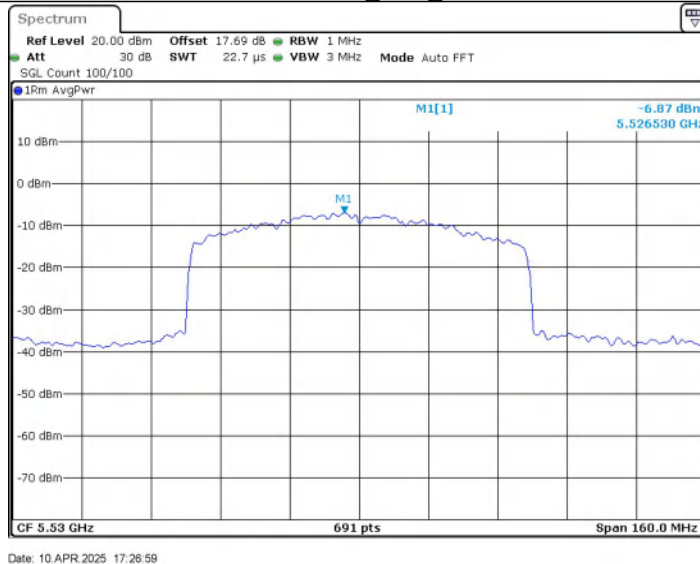
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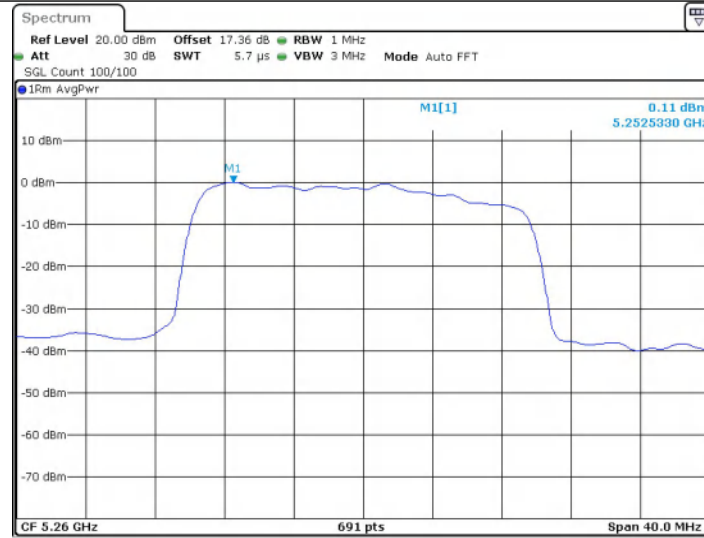
11AC80SISO_Ant1_5290



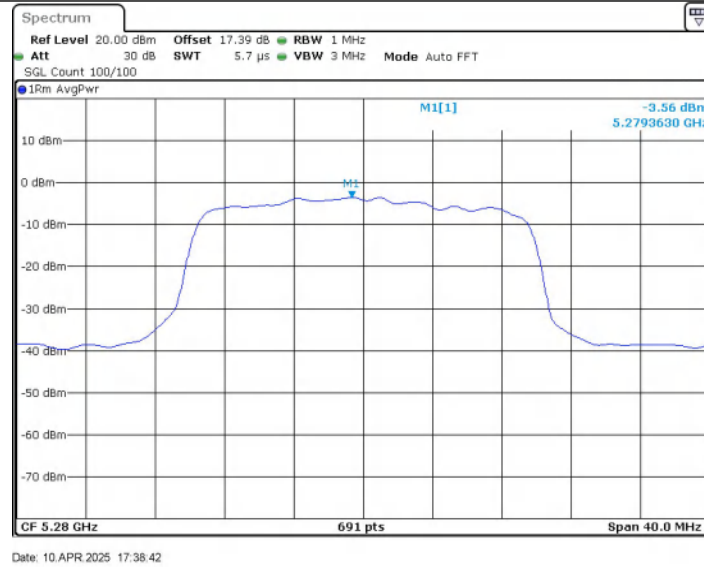
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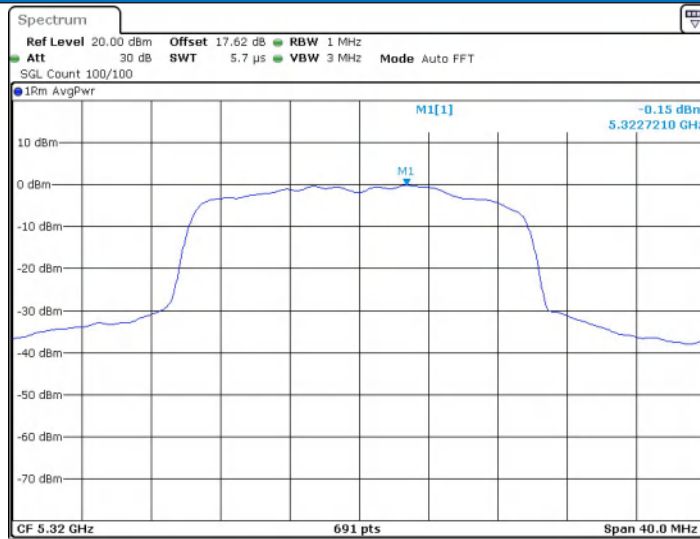
11AX20SISO_Ant1_5260



11AX20SISO_Ant1_5280

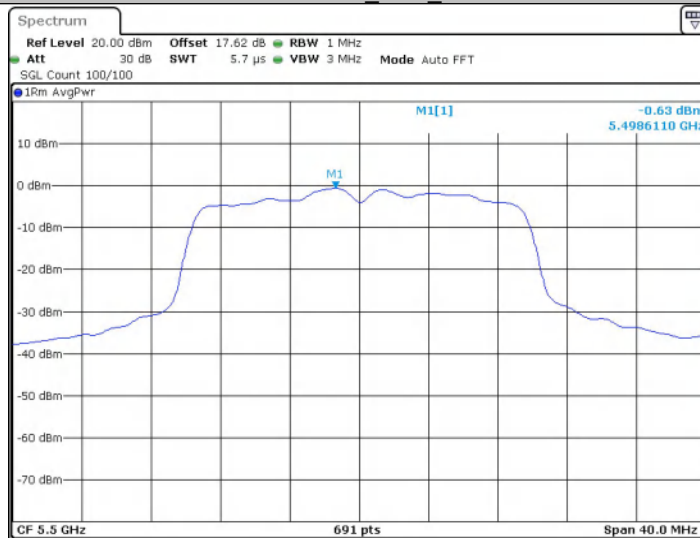


11AX20SISO_Ant1_5320



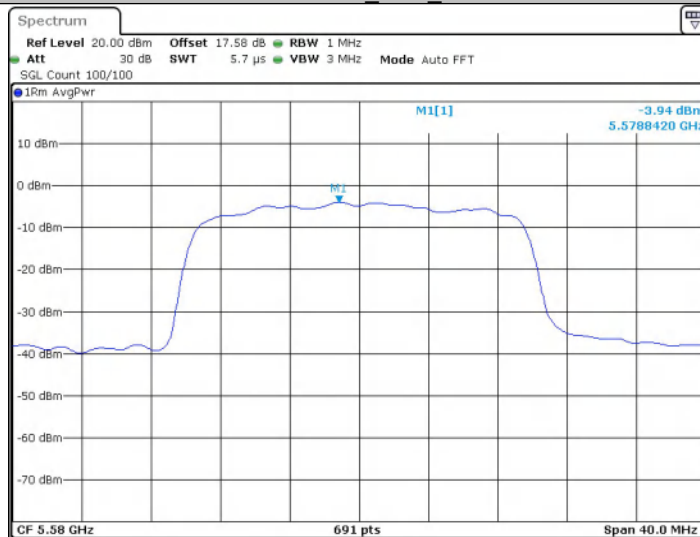
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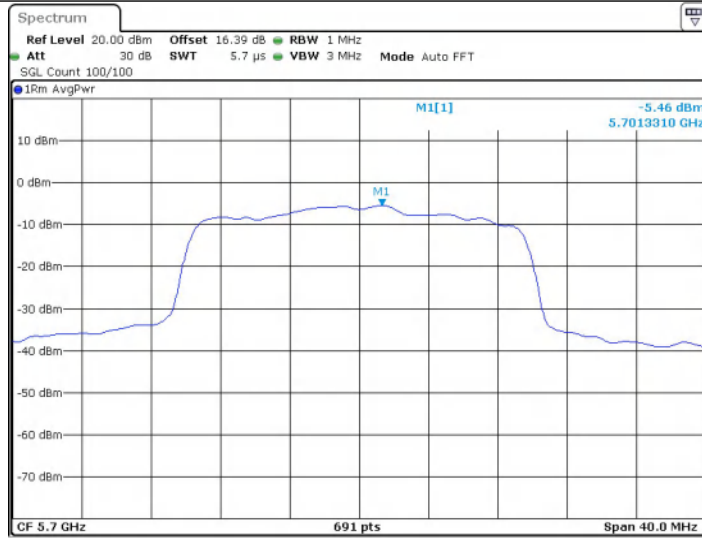
Date: 10 APR 2025 17:45:00

11AX20SISO_Ant1_5580



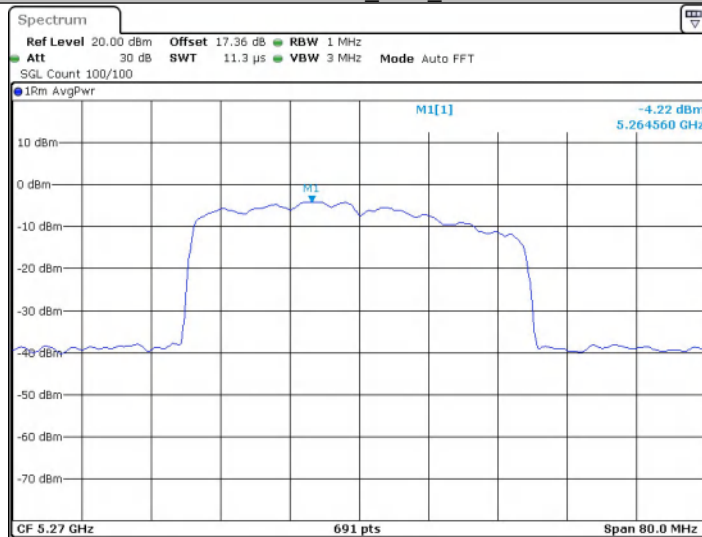
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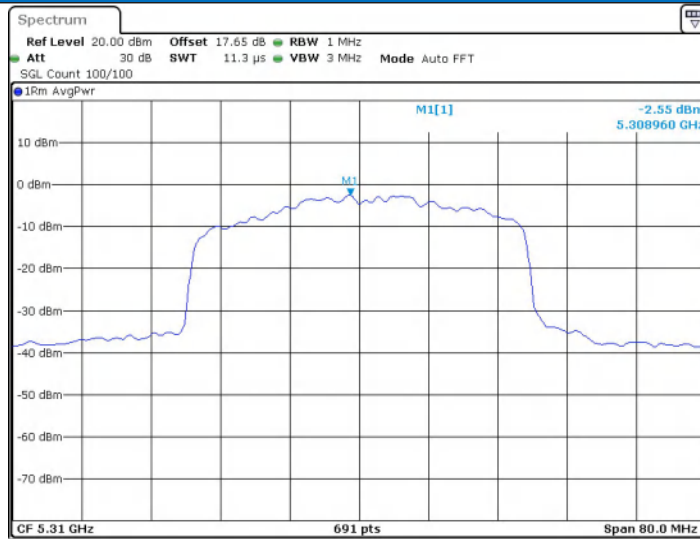
Date: 23 JUN 2025 13:08:03

11AX40SISO_Ant1_5270



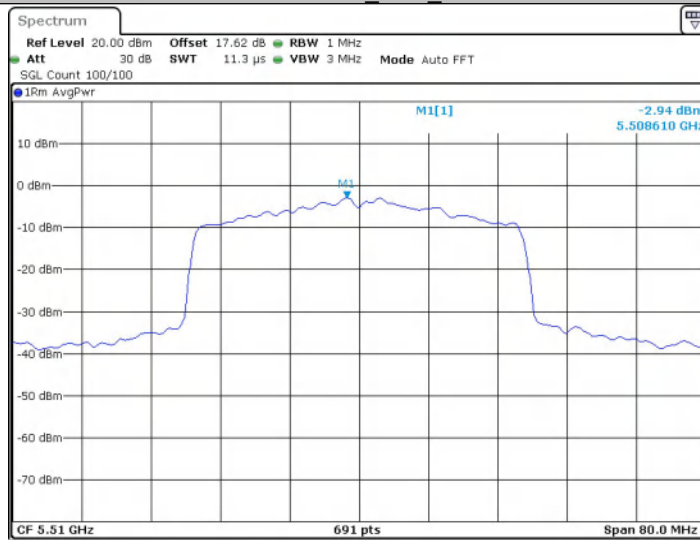
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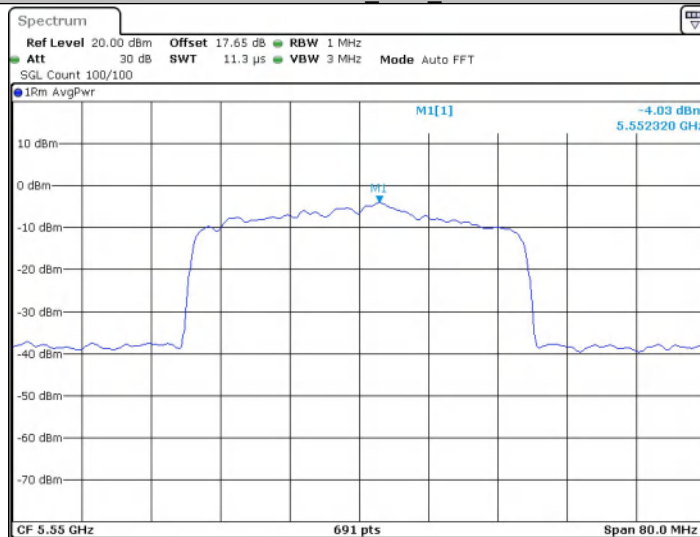
Date: 10 APR 2025 17:53:58

11AX40SISO_Ant1_5510



Date: 10 APR 2025 17:55:39

11AX40SISO_Ant1_5550



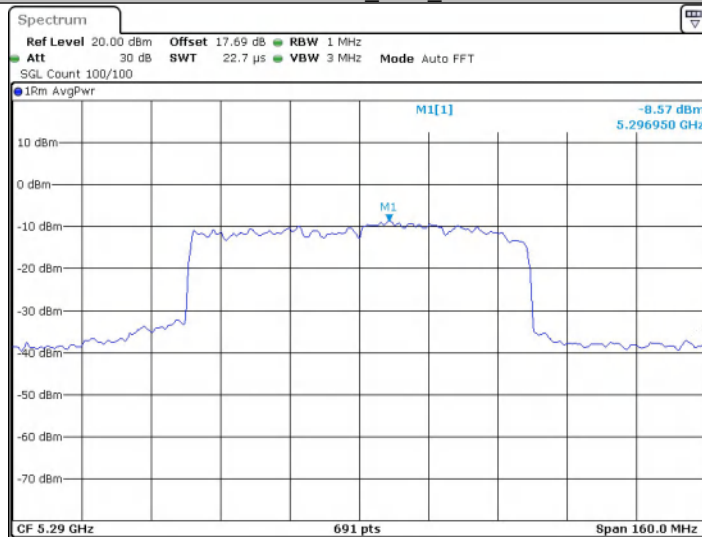
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11AX40SISO_Ant1_5670



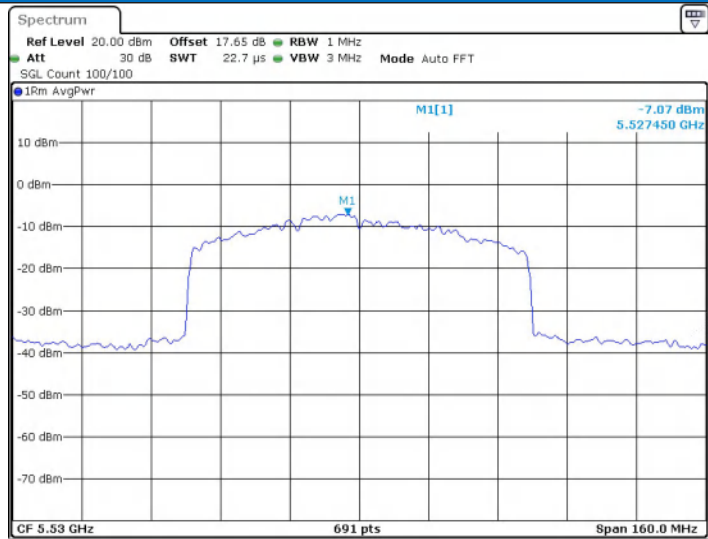
Date: 23 JUN 2025 13:09:47

11AX80SISO_Ant1_5290



Date: 10 APR 2025 18:01:18

11AX80SISO_Ant1_5530



Date: 10 APR 2025 18:04:43

Appendix D): Band Edge Measurements

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

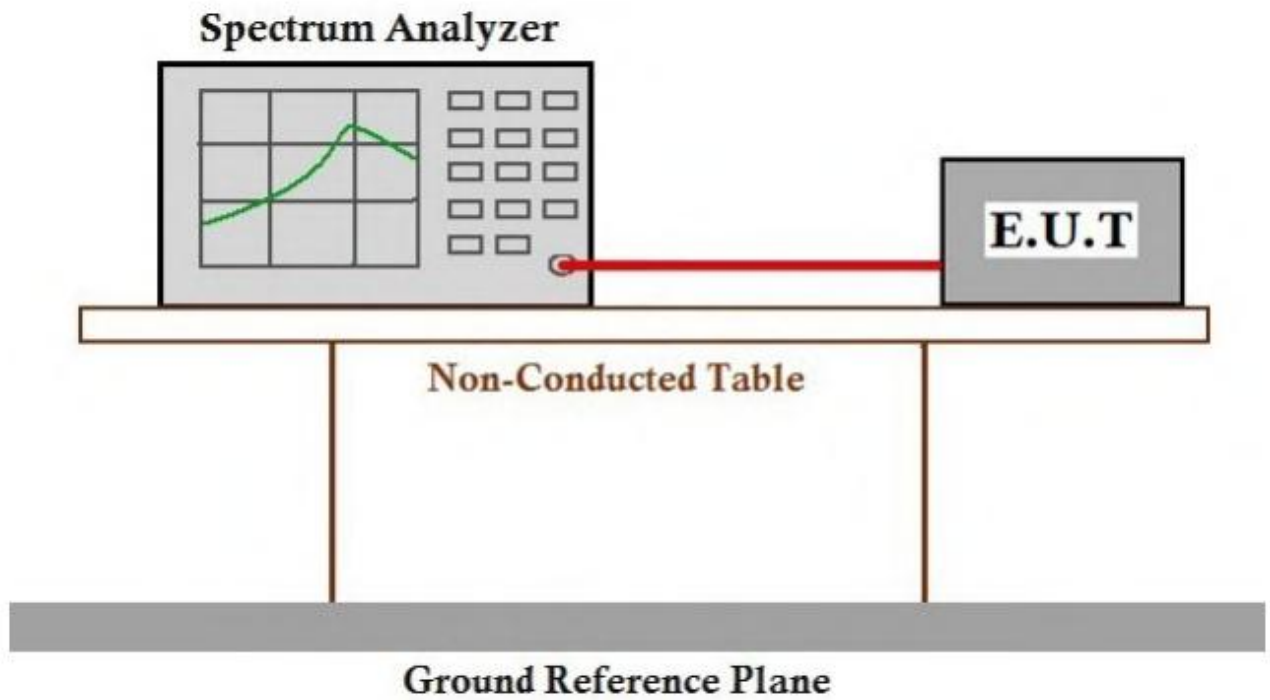
Test Procedure:

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

Limit:

For transmitters operating in the 5.15-5.25 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band:	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

Test Setup Diagram



Test Result:
Ant1:

7.1.1 Test Result B2/3

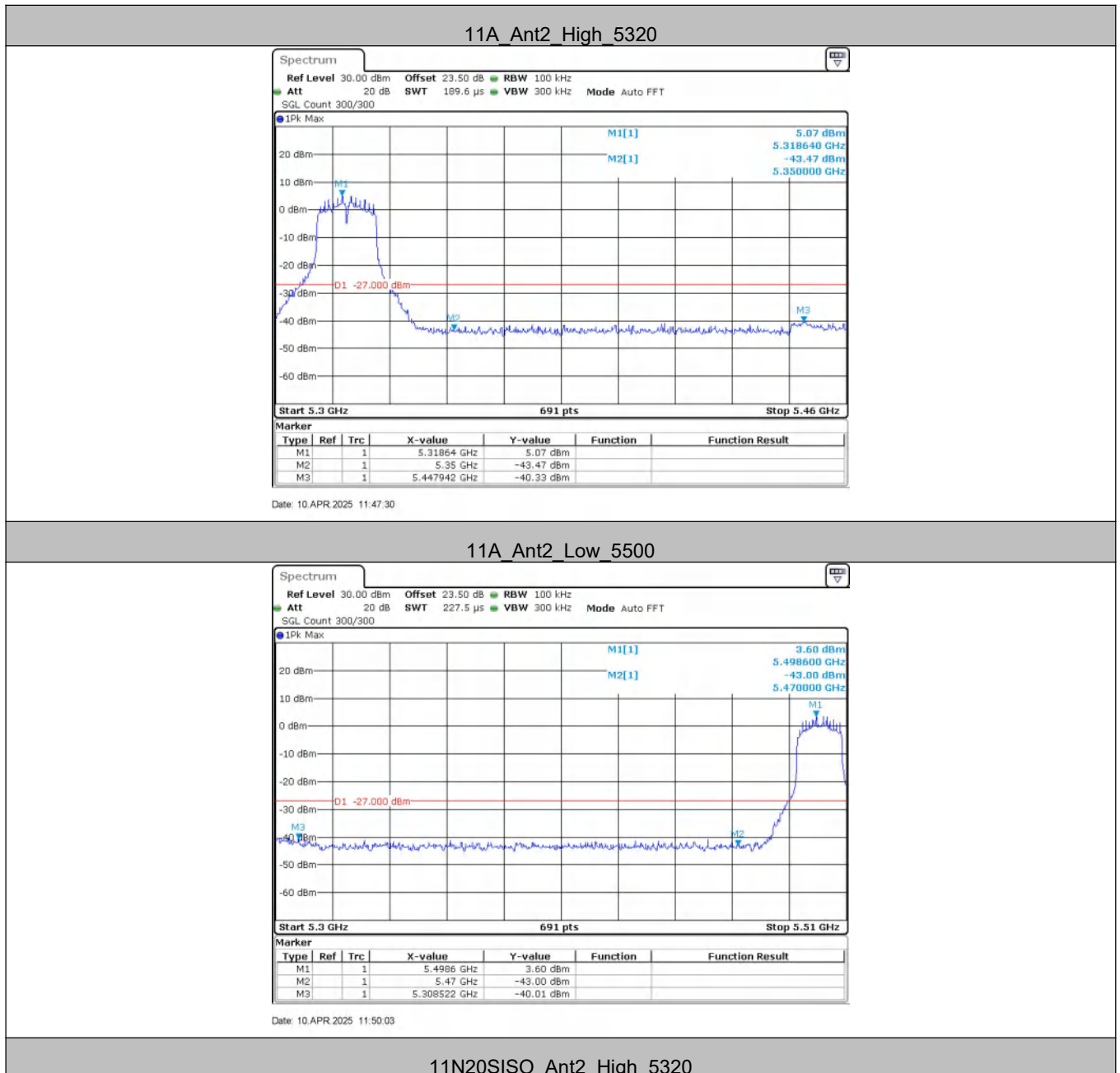
TestMode	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	High	5320	-39.7	≤ -27	PASS
	Low	5500	-40.17	≤ -27	PASS
11N20SISO	High	5320	-39.51	≤ -27	PASS
	Low	5500	-39.23	≤ -27	PASS
11N40SISO	High	5310	-38.79	≤ -27	PASS
	Low	5510	-38.83	≤ -27	PASS
11AC20SISO	High	5320	-39.13	≤ -27	PASS
	Low	5500	-39.23	≤ -27	PASS
11AC40SISO	High	5310	-39.45	≤ -27	PASS
	Low	5510	-39.92	≤ -27	PASS
11AC80SISO	High	5290	-39.64	≤ -27	PASS
	Low	5530	-39.88	≤ -27	PASS
11AX20SISO	High	5320	-39.26	≤ -27	PASS
	Low	5500	-39.78	≤ -27	PASS
11AX40SISO	High	5310	-40.05	≤ -27	PASS
	Low	5510	-39.26	≤ -27	PASS
11AX80SISO	High	5290	-39.77	≤ -27	PASS
	Low	5530	-39.39	≤ -27	PASS

Ant2:

7.1.2 Test Result B2/3

TestMode	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	High	5320	-40.33	≤ -27	PASS
	Low	5500	-40.01	≤ -27	PASS
11N20SISO	High	5320	-40.11	≤ -27	PASS
	Low	5500	-40.02	≤ -27	PASS
11N40SISO	High	5310	-39.42	≤ -27	PASS
	Low	5510	-38.93	≤ -27	PASS
11AC20SISO	High	5320	-39.99	≤ -27	PASS
	Low	5500	-39.39	≤ -27	PASS
11AC40SISO	High	5310	-39.66	≤ -27	PASS
	Low	5510	-40.03	≤ -27	PASS
11AC80SISO	High	5290	-39.57	≤ -27	PASS
	Low	5530	-39.16	≤ -27	PASS
11AX20SISO	High	5320	-38.74	≤ -27	PASS
	Low	5500	-39.29	≤ -27	PASS
11AX40SISO	High	5310	-39.47	≤ -27	PASS
	Low	5510	-39.69	≤ -27	PASS
11AX80SISO	High	5290	-38.85	≤ -27	PASS
	Low	5530	-39.86	≤ -27	PASS

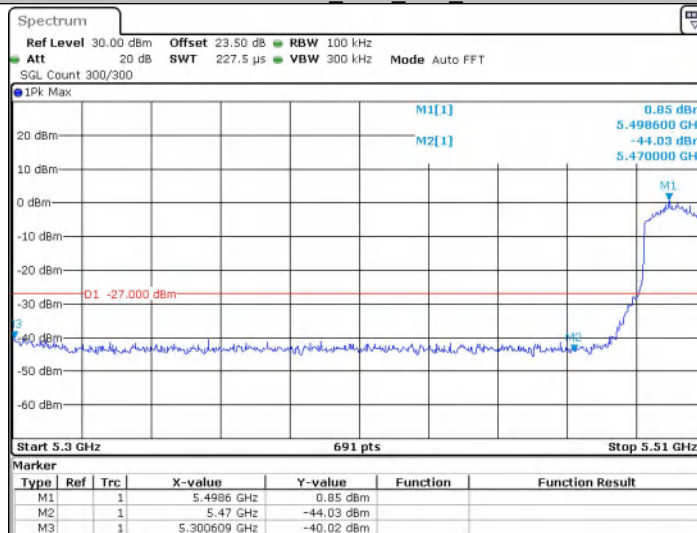
7.1.3 Test Graphs B2/3





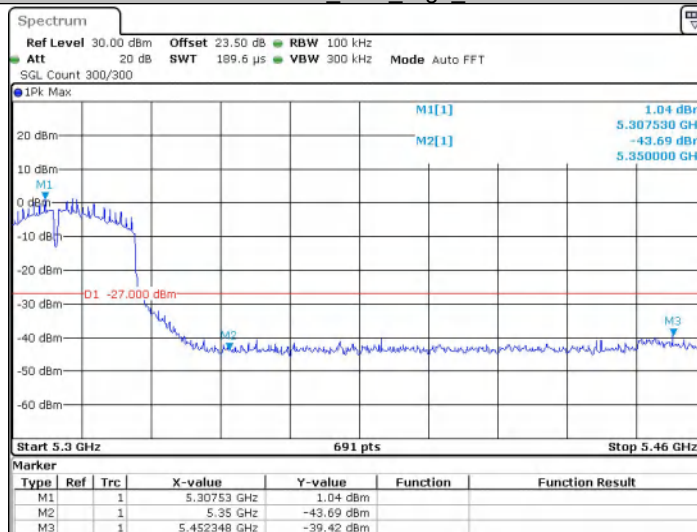
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11N20SISO_Ant2_Low_5500



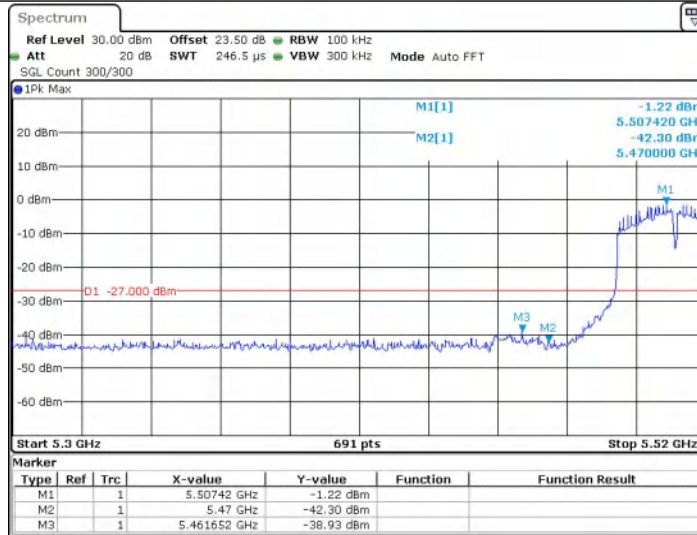
Date: 10 APR 2025 12:11:02

11N40SISO_Ant2_High_5310



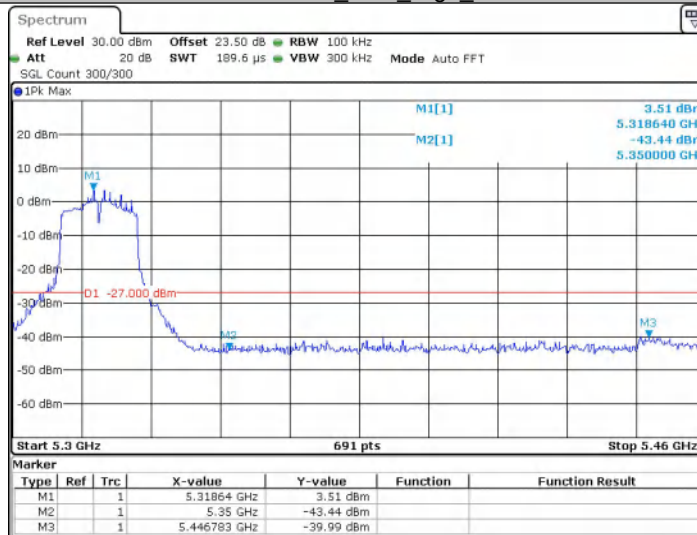
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11N40SISO_Ant2_Low_5510



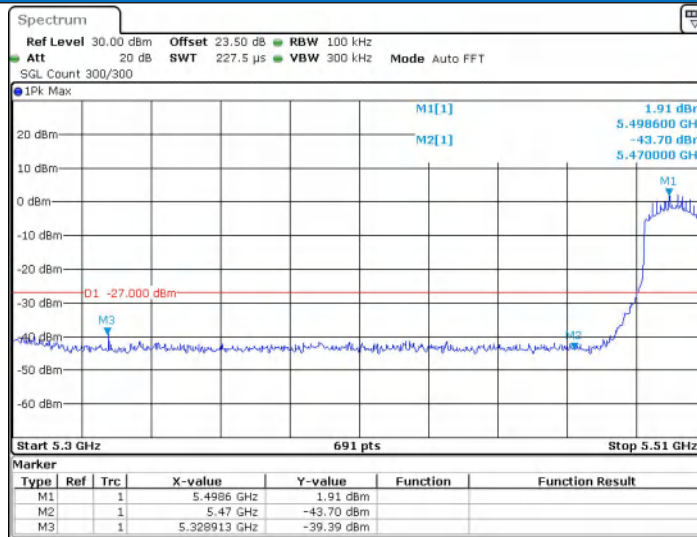
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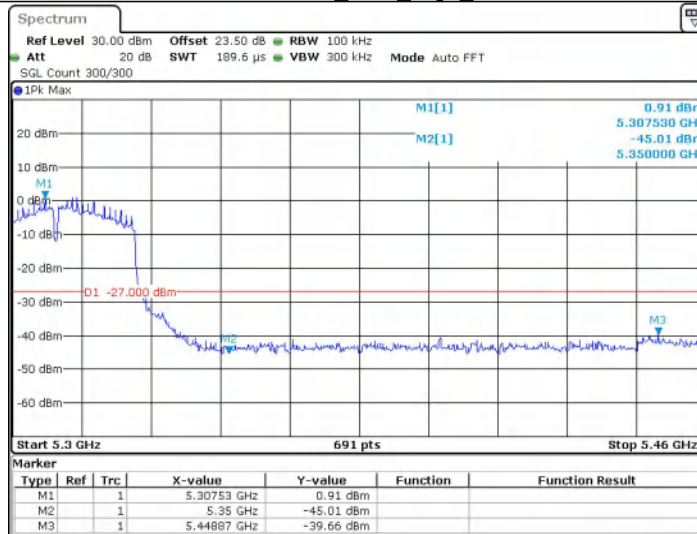
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11AC20SISO_Ant2_Low_5500



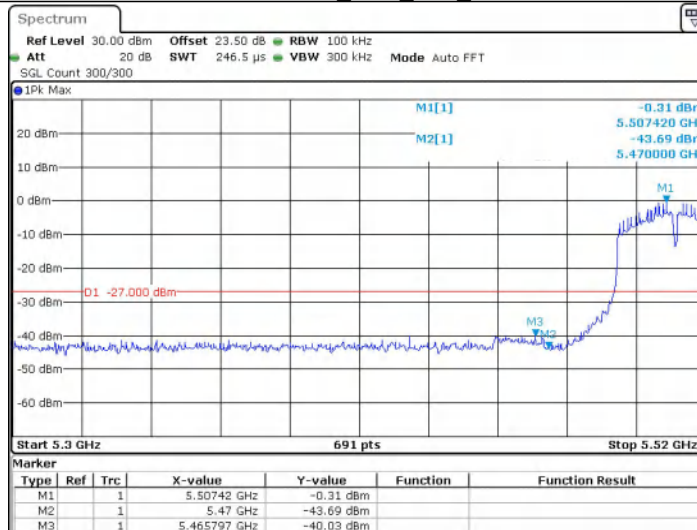
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11AC40SISO_Ant2_High_5310



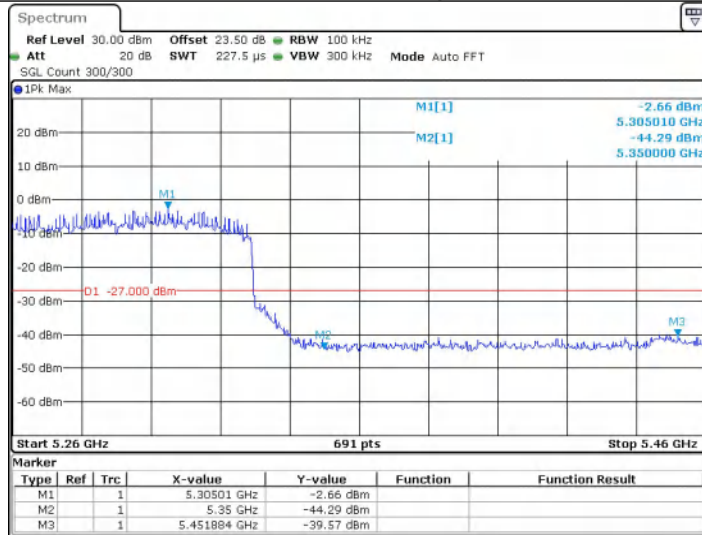
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11AC40SISO_Ant2_Low_5510



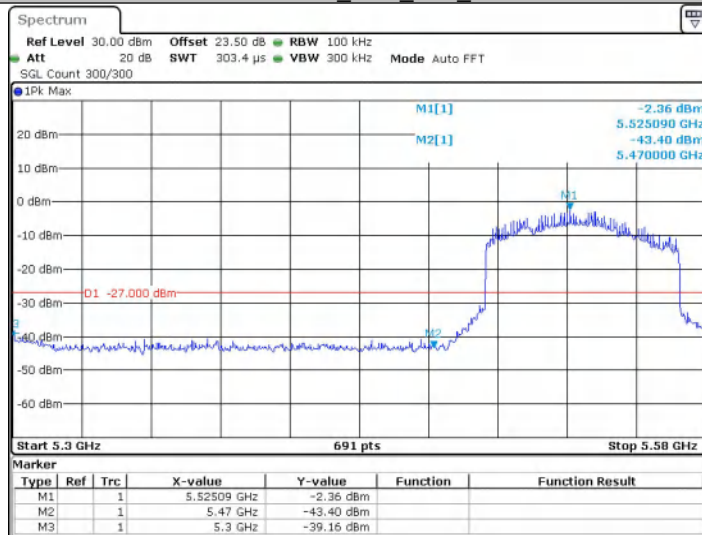
Date: 10 APR 2025 12:59:21

11AC80SISO_Ant2_High_5290



Date: 10 APR 2025 10:27:39

11AC80SISO_Ant2_Low_5530



Date: 10 APR 2025 10:30:36

11AX20SISO_Ant2_High_5320