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Test Report

Report No.: CQASZ20250601276E-03
Applicant: Ultimea Technology (Shenzhen) Limited
Address of Applicant: 20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China
Equipment Under Test (EUT):
Product: Projector
Model No.: U0840
Test Model No.: U0840
Brand Name: ULTIMEA
FCC ID: 2A900-U0840P
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: 2025-06-06
Date of Test: 2025-06-06 to 2025-08-26
Date of Issue: 2025-09-16
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
CQASZ20250601276E-03	Rev.01	Initial report	2025-09-16

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2020; KDB789033	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.207	ANSI C63.10-2020; KDB789033	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.407 (a)	ANSI C63.10-2020; KDB789033	PASS
Emission Bandwidth	47 CFR Part 15 Subpart C Section 15.407 (a)(e)	ANSI C63.10-2020; KDB789033	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	ANSI C63.10-2020; KDB789033	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.209 & 15.407(b)	ANSI C63.10-2020; KDB789033	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	ANSI C63.10-2020; 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 C63.10-2020; 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

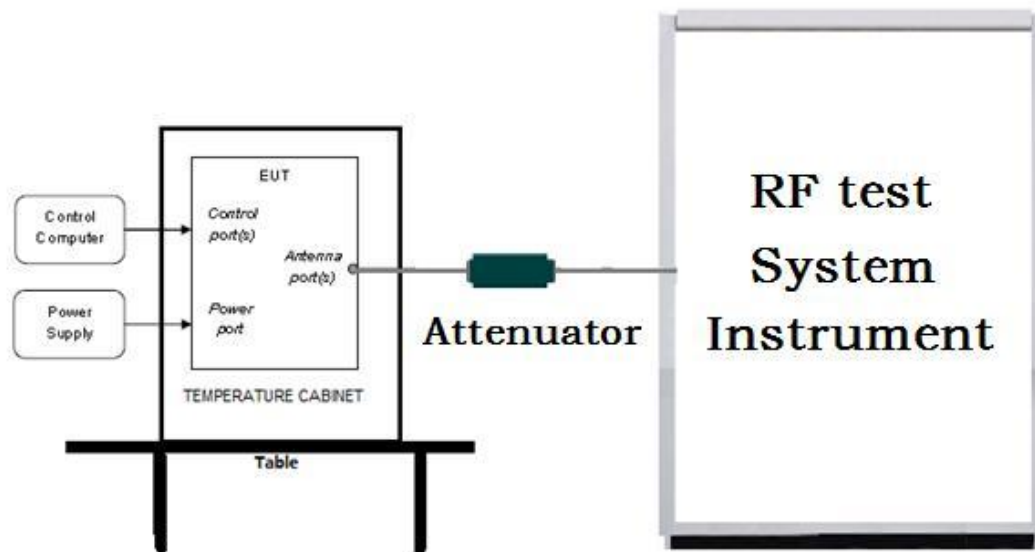
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4 Test Requirement

4.1 Test setup

4.1.1 For Conducted test setup



4.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

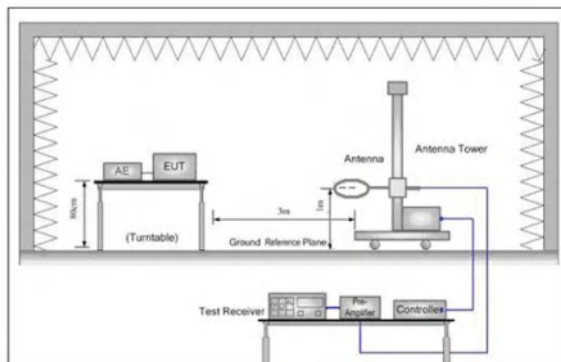


Figure 1. Below 30MHz

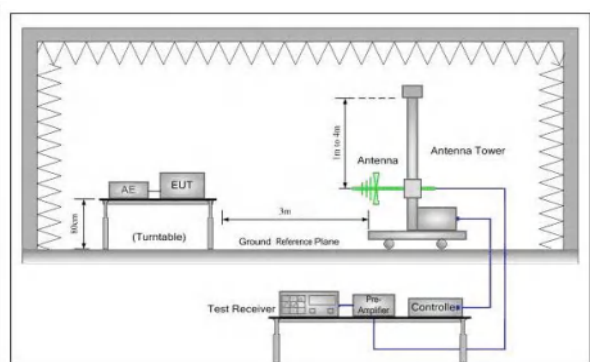


Figure 2. 30MHz to 1GHz

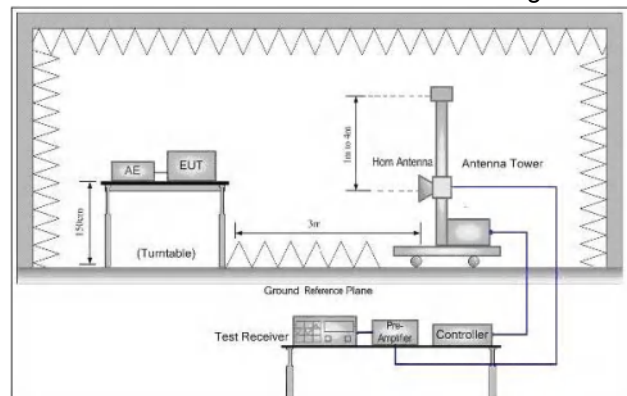
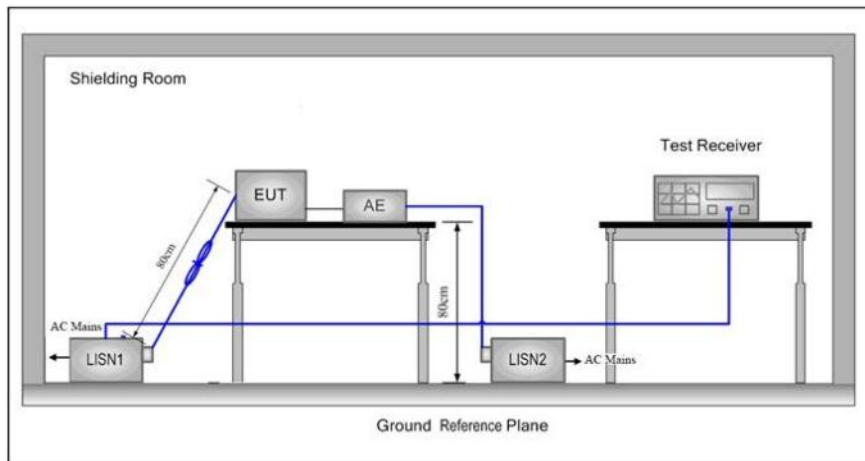


Figure 3. Above 1GHz

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	19
TL/VL	0	17.1
TH/VL	50	17.1
TL/VH	0	20.9
TH/VH	50	20.9

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;

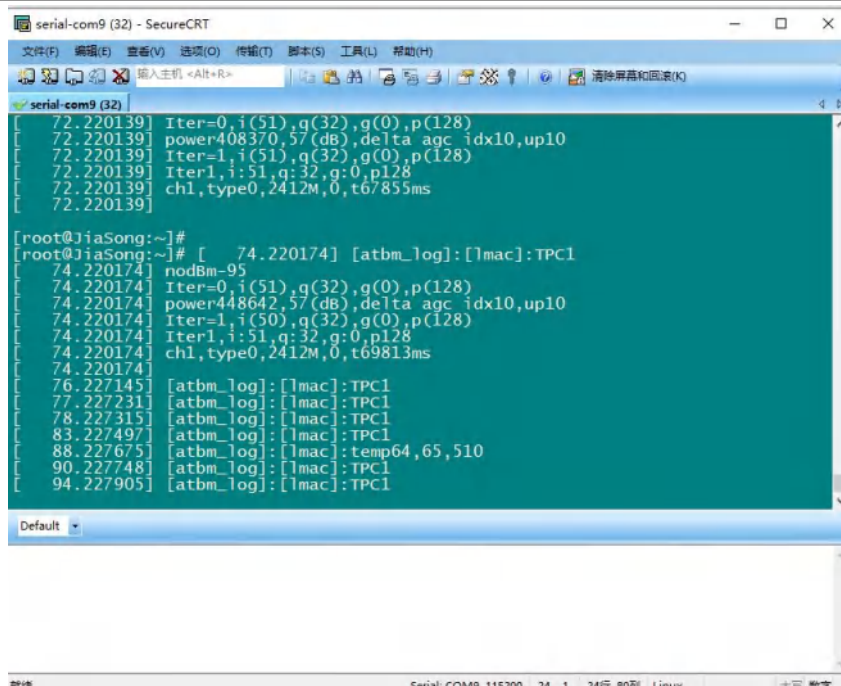
VL : Low Extreme Test Voltage; VH: High Extreme Test Voltage.

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:



```
serial-com9 (32) - SecureCRT
文件(F) 编辑(E) 查看(V) 选项(O) 传输(T) 脚本(S) 工具(L) 帮助(H)
[ 72.220139] Iter=0,i(51),q(32),g(0),p(128)
[ 72.220139] power408370,57(dB),delta agc idx10,up10
[ 72.220139] Iter=1,i(51),q(32),g(0),p(128)
[ 72.220139] Iter1,i:51,q:32,g:0,p128
[ 72.220139] chl,type0,2412M,0,t67855ms
[ 72.220139]

[root@JiaSong:~]#
[root@JiaSong:~]# [ 74.220174] [atbm_log]:[!mac]:TPC1
[ 74.220174] nod8m-95
[ 74.220174] Iter=0,i(51),q(32),g(0),p(128)
[ 74.220174] power448642,57(dB),delta agc idx10,up10
[ 74.220174] Iter=1,i(50),q(32),g(0),p(128)
[ 74.220174] Iter1,i:51,q:32,g:0,p128
[ 74.220174] chl,type0,2412M,0,t69813ms
[ 74.220174]

[ 76.227145] [atbm_log]:[!mac]:TPC1
[ 77.227231] [atbm_log]:[!mac]:TPC1
[ 78.227315] [atbm_log]:[!mac]:TPC1
[ 83.227497] [atbm_log]:[!mac]:TPC1
[ 88.227675] [atbm_log]:[!mac]:temp64,65,510
[ 90.227748] [atbm_log]:[!mac]:TPC1
[ 94.227905] [atbm_log]:[!mac]:TPC1

Default
```


5 General Information

5.1 Client Information

Applicant:	Ultimea Technology (Shenzhen) Limited
Address of Applicant:	20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China
Manufacturer:	Ultimea Technology (Shenzhen) Limited
Address of Manufacturer:	20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China
Factory:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Factory:	Room 502, Building A, Jinke Industrial Park, No.310, Wuhe Avenue, Luhu Community, Guanhu Street, Longhua District, Shenzhen, China

5.2 General Description of EUT

Product Name:	Projector
Model No.:	U0840
Test Model No.:	U0840
Trade Mark:	ULTIMEA
Software Version:	V1.0
Hardware Version:	B(23365)
EUT Power Supply:	Adapter: Model No.:GQ120-1900632-E1 Input:100-240V~50/60Hz 2.0A Max Output:19.0V 6.32A 120.08W
	Adapter: Model No.:MSS-Z6320WR190-120C0-E Input:100-240V~50/60Hz 2.0A Max Output:19.0V 6.32A 120W
EUT Supports Radios application:	U-NII-1: 5.15-5.25GHz;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): 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): 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) EUT supports one configuration only in 802.11ax full RU mode.
Sample Type:	☒ Mobile ☐ Portable
Test Software of EUT:	SecureCRT
Antenna Type:	FPC antenna
Antenna gain:	4.91dBi
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-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 C63.10-2020	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

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)

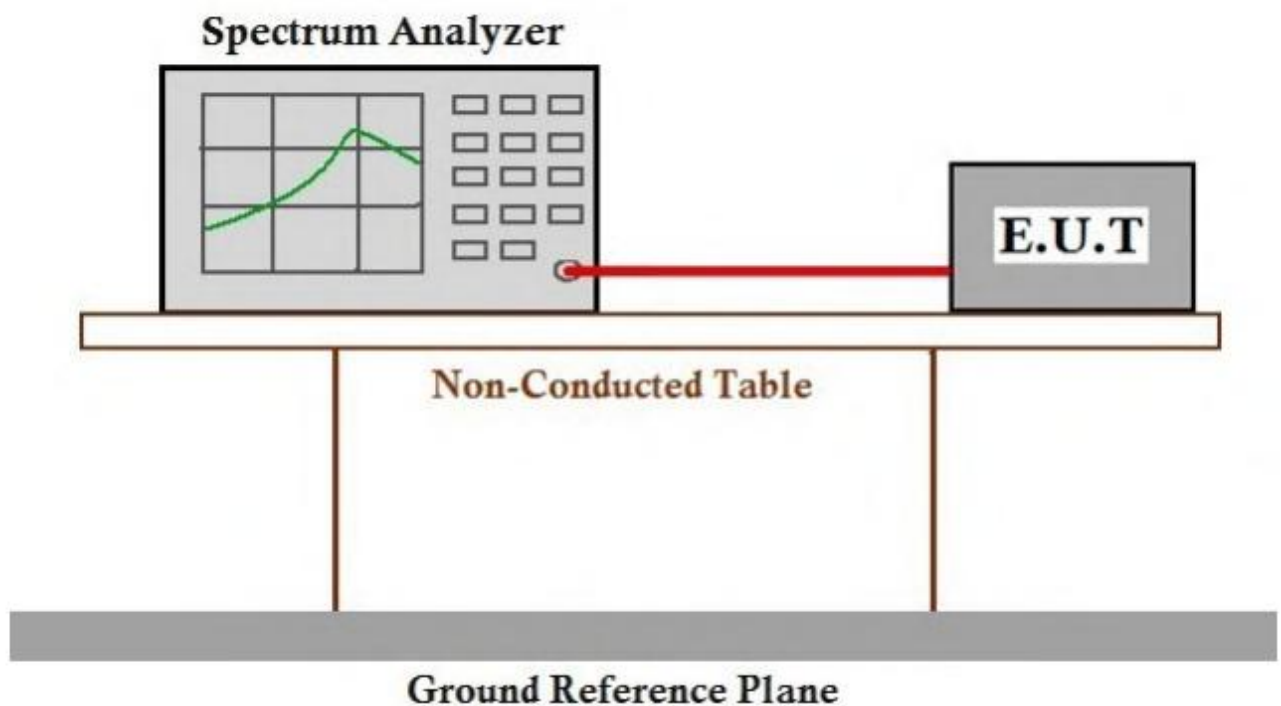
Test Method: KDB 789033 D02 II C 2

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

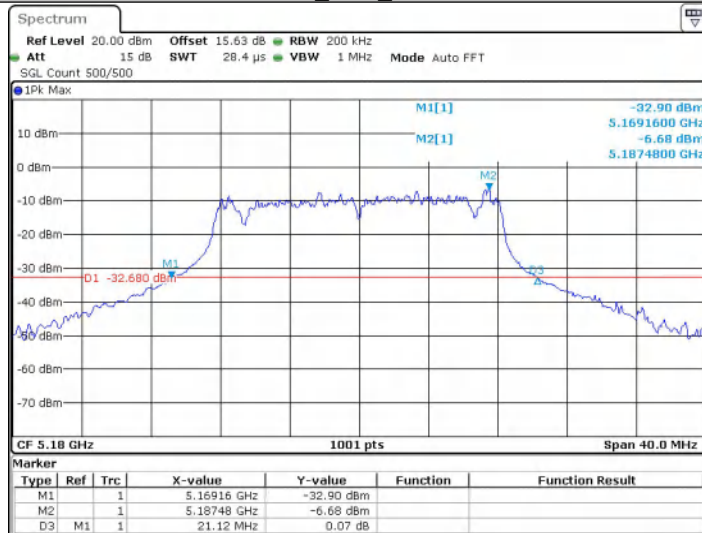
TestMode	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	5180	21.12	5169.16	5190.28
	5200	20.72	5188.56	5209.28
	5240	21.00	5230.08	5251.08
	5745	22.56	5731.72	5754.28
	5785	21.08	5774.68	5795.76
	5825	25.56	5811.24	5836.80
11N20SISO	5180	23.36	5168.36	5191.72
	5200	23.40	5187.24	5210.64
	5240	22.92	5229.76	5252.68
	5745	23.48	5731.52	5755.00
	5785	21.84	5774.24	5796.08
	5825	26.52	5811.00	5837.52
11N40SISO	5190	38.88	5170.40	5209.28
	5230	41.36	5210.80	5252.16
	5755	44.88	5729.40	5774.28
	5795	40.24	5775.00	5815.24
11AC20SISO	5180	24.00	5168.56	5192.56
	5200	21.52	5188.56	5210.08
	5240	21.60	5229.60	5251.20
	5745	24.84	5730.16	5755.00
	5785	24.88	5772.96	5797.84
	5825	32.04	5807.28	5839.32
11AC40SISO	5190	40.56	5169.04	5209.60
	5230	44.48	5207.84	5252.32
	5755	43.92	5730.36	5774.28
	5795	42.32	5772.28	5814.60
11AC80SISO	5210	81.76	5168.40	5250.16
	5775	116.16	5698.68	5814.84
11AX20SISO	5180	22.04	5169.80	5191.84
	5200	22.52	5187.76	5210.28
	5240	19.96	5229.84	5249.80
	5745	20.80	5734.04	5754.84
	5785	20.32	5775.16	5795.48
	5825	24.88	5812.40	5837.28
11AX40SISO	5190	43.28	5168.48	5211.76

11AX80SISO	5230	40.64	5208.96	5249.60
	5755	46.40	5728.12	5774.52
	5795	39.20	5775.32	5814.52
	5210	80.16	5170.00	5250.16
	5775	92.64	5722.20	5814.84

TestMode	Freq(MHz)	6db EBW [MHz]	Limit[MHz]	Verdict
11A	5745	14.32	0.5	PASS
	5785	15.68	0.5	PASS
	5825	16.48	0.5	PASS
11N20SISO	5745	16.48	0.5	PASS
	5785	17.68	0.5	PASS
	5825	17.60	0.5	PASS
11N40SISO	5755	33.28	0.5	PASS
	5795	15.12	0.5	PASS
11AC20SISO	5745	12.68	0.5	PASS
	5785	17.72	0.5	PASS
	5825	17.72	0.5	PASS
11AC40SISO	5755	35.76	0.5	PASS
	5795	21.04	0.5	PASS
11AC80SISO	5775	6.40	0.5	PASS
11AX20SISO	5745	14.68	0.5	PASS
	5785	15.76	0.5	PASS
	5825	19.08	0.5	PASS
11AX40SISO	5755	28.96	0.5	PASS
	5795	36.64	0.5	PASS
11AX80SISO	5775	59.36	0.5	PASS

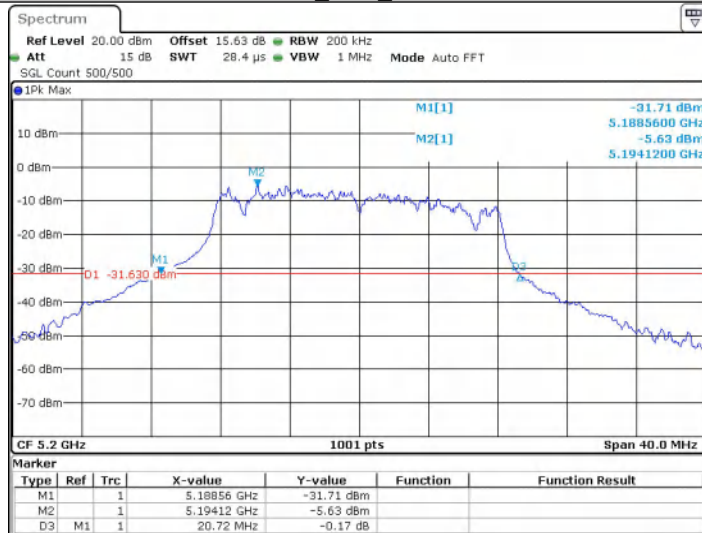
Test Graph

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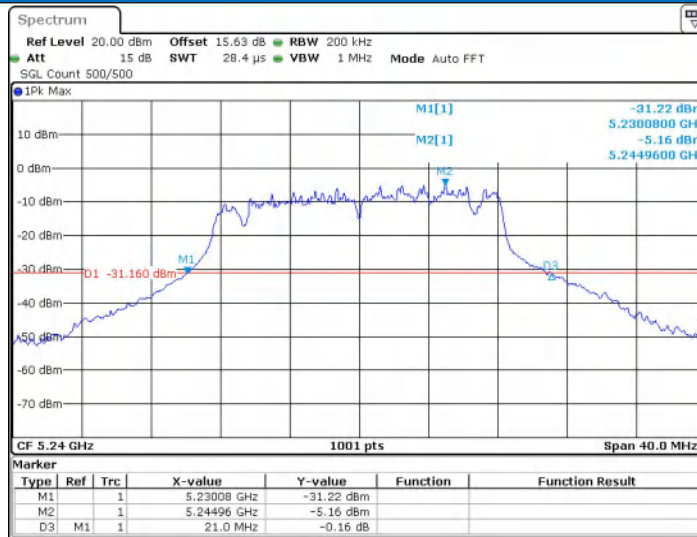
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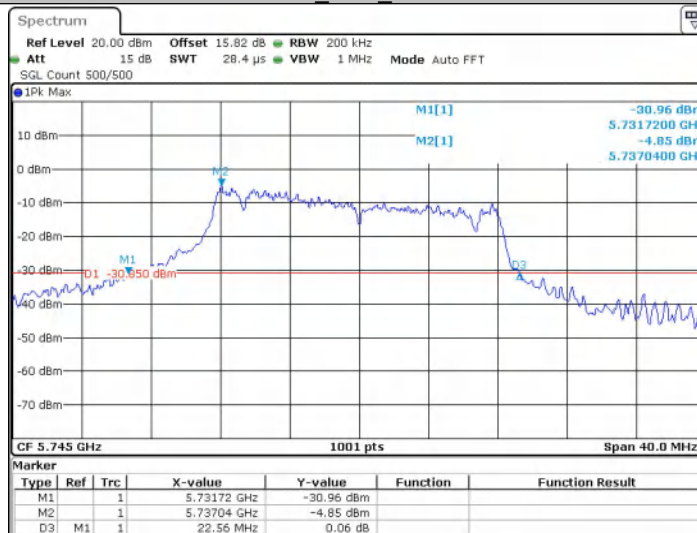
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11A_Ant1_5240



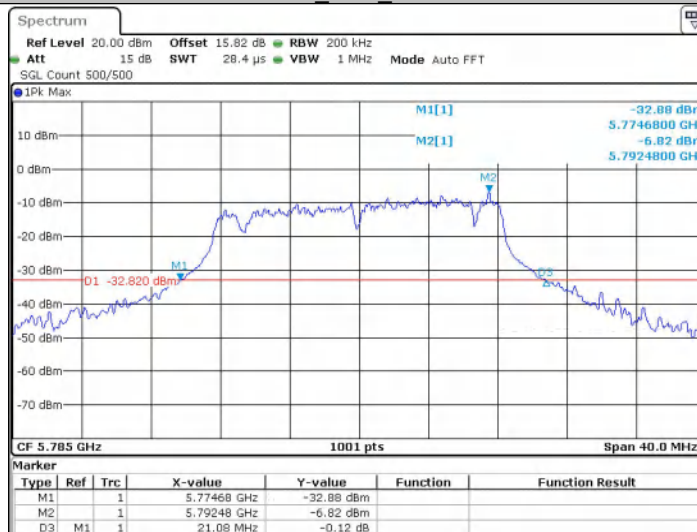
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11A_Ant1_5745



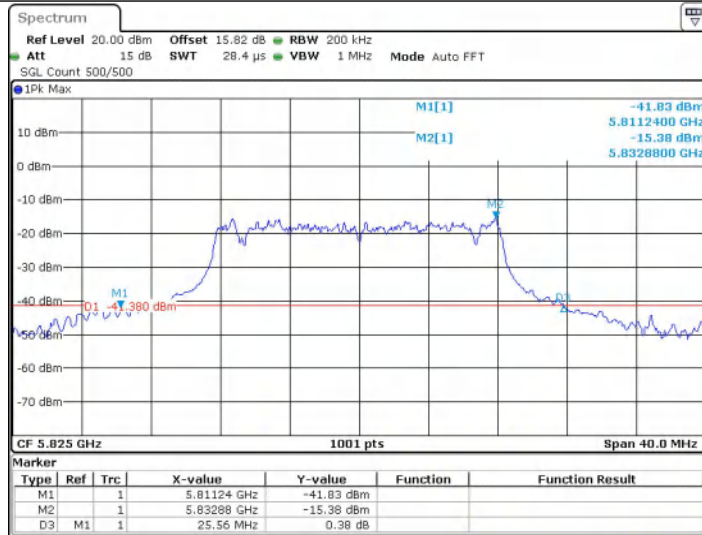
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11A_Ant1_5785



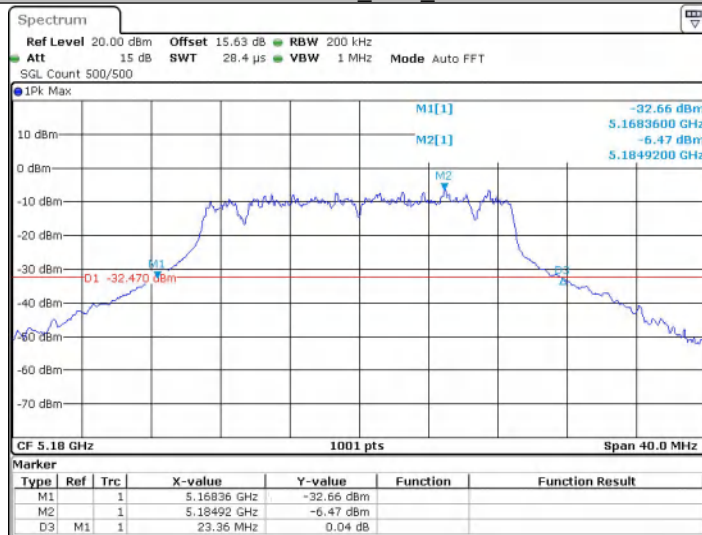
Date: 2 JUL 2025 16:23:46

11A_Ant1_5825



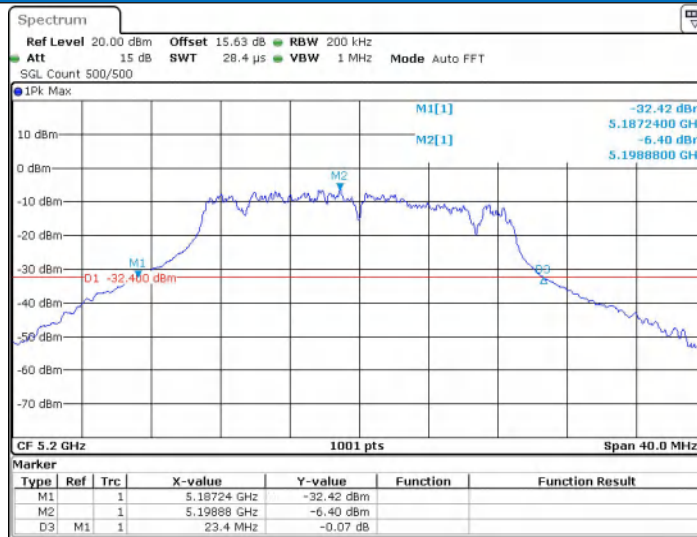
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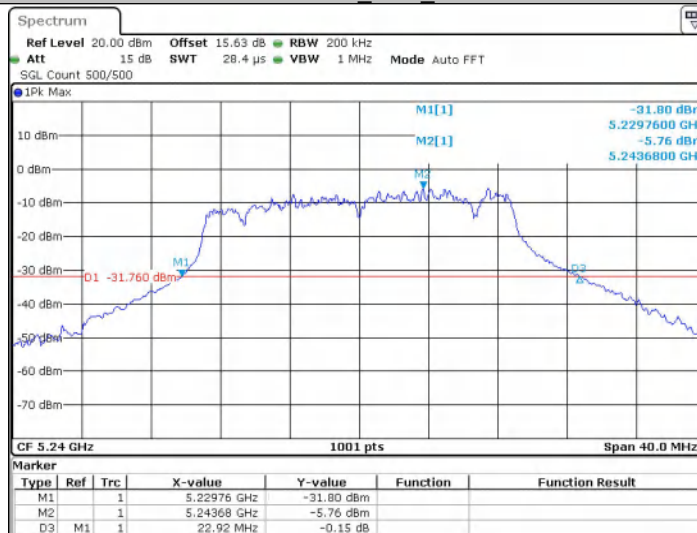
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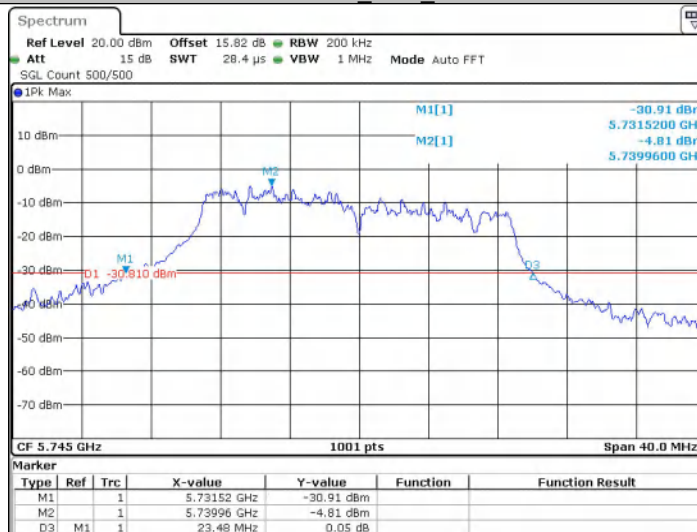
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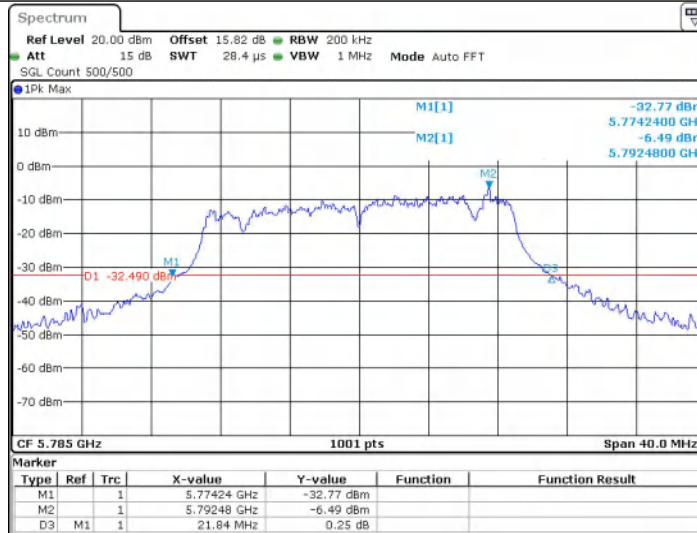
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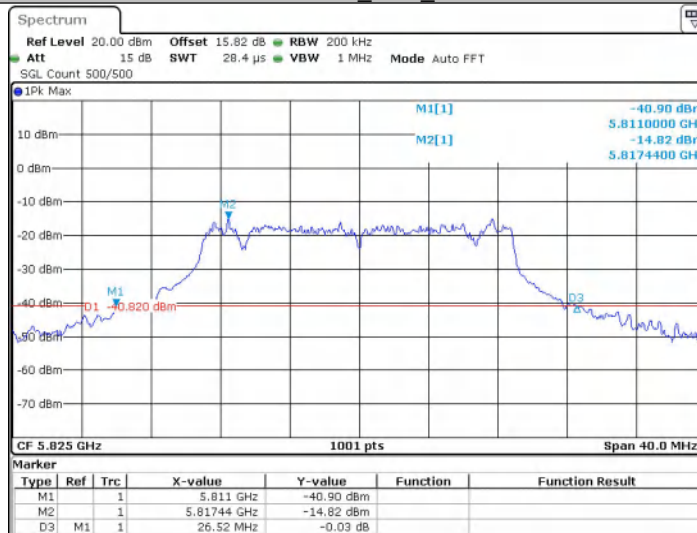
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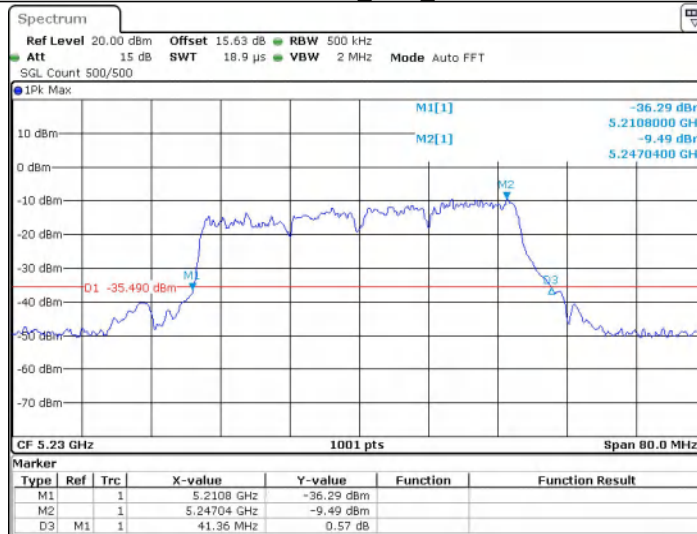
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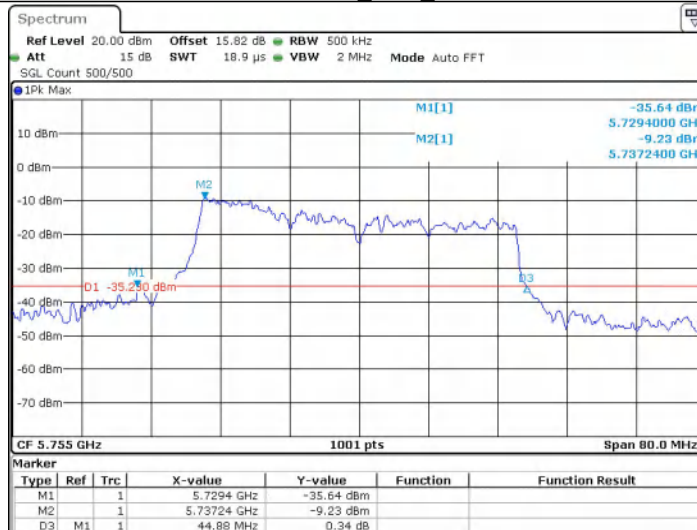
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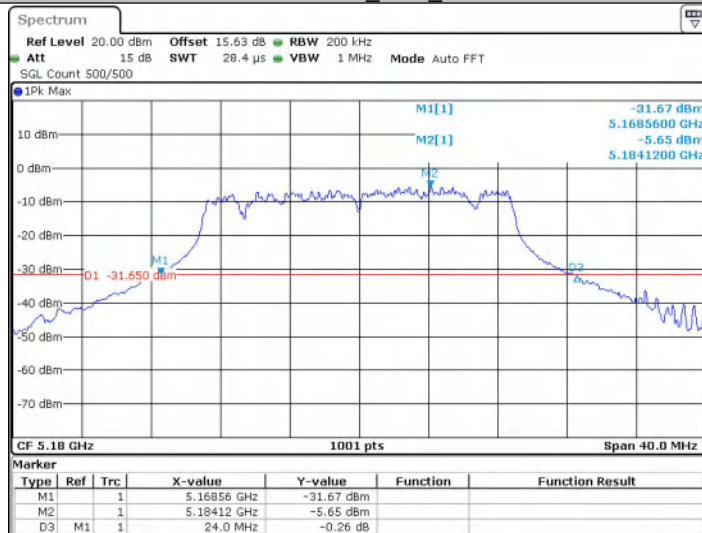
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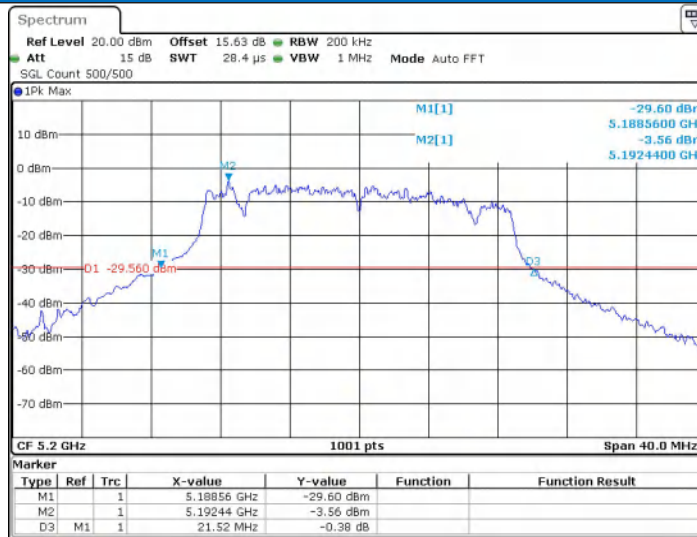
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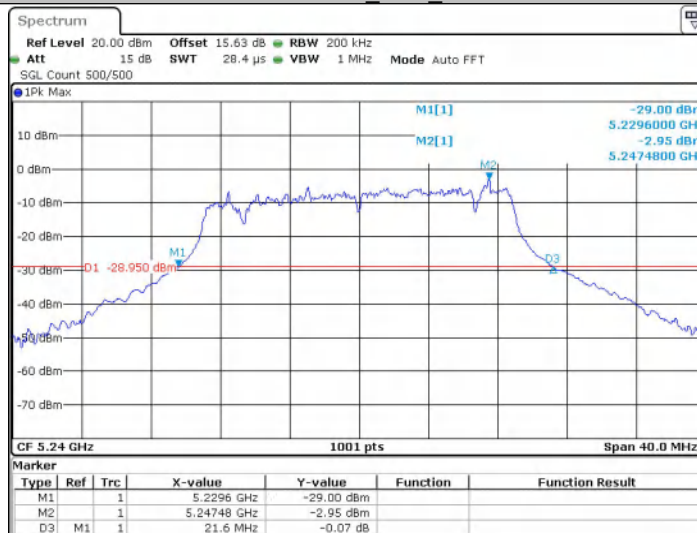
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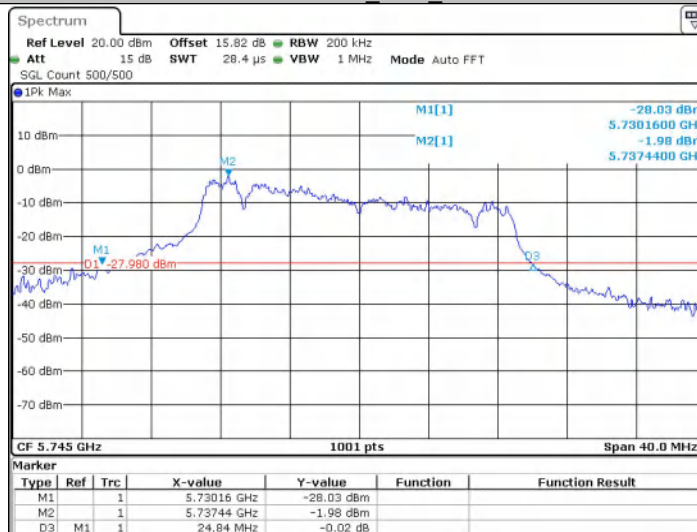
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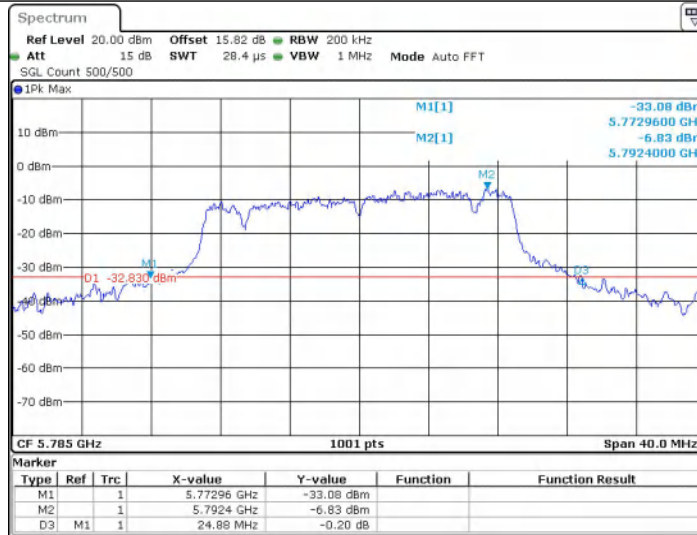
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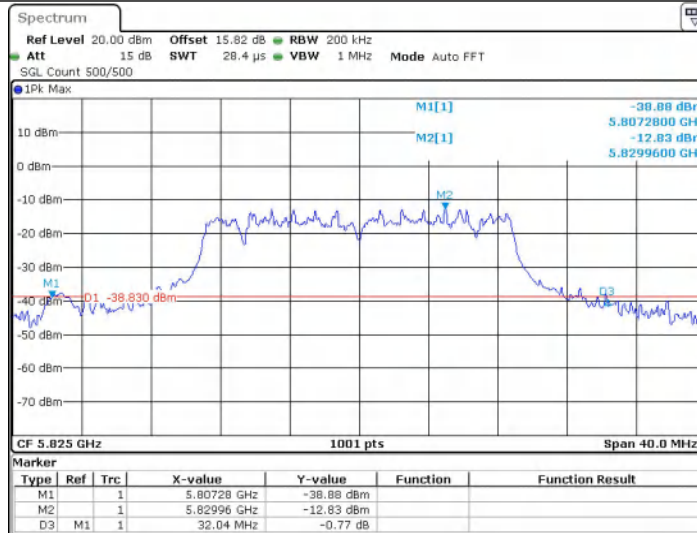
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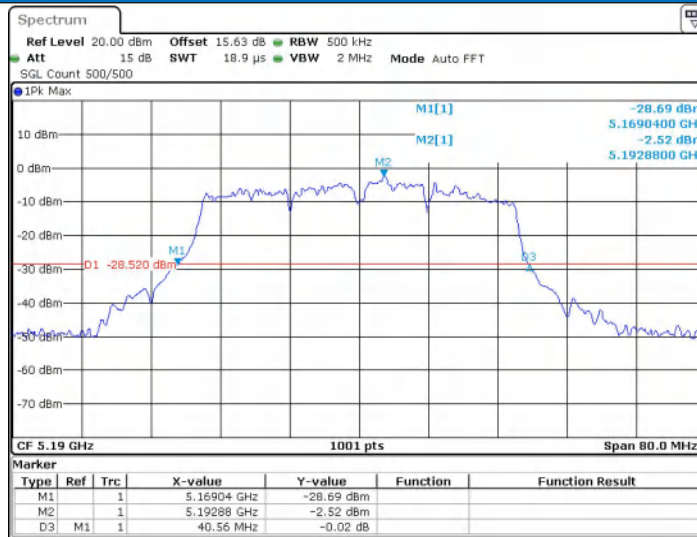
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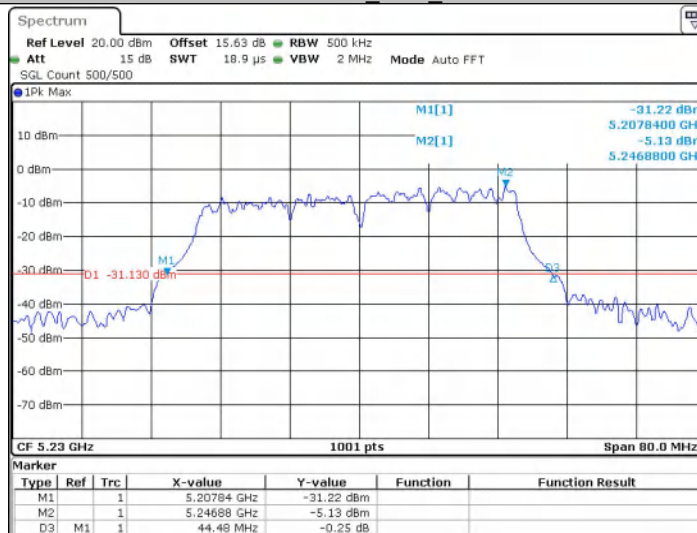
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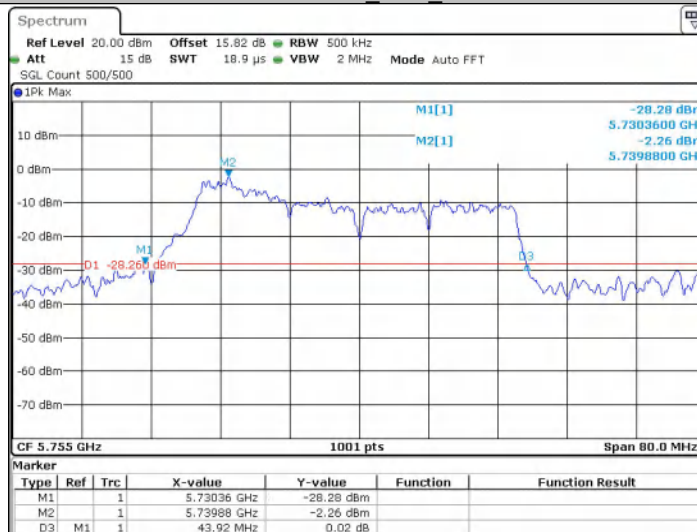
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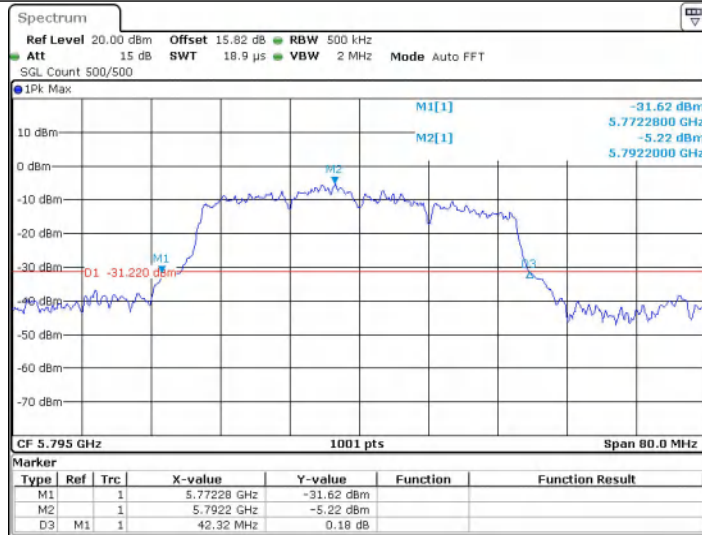
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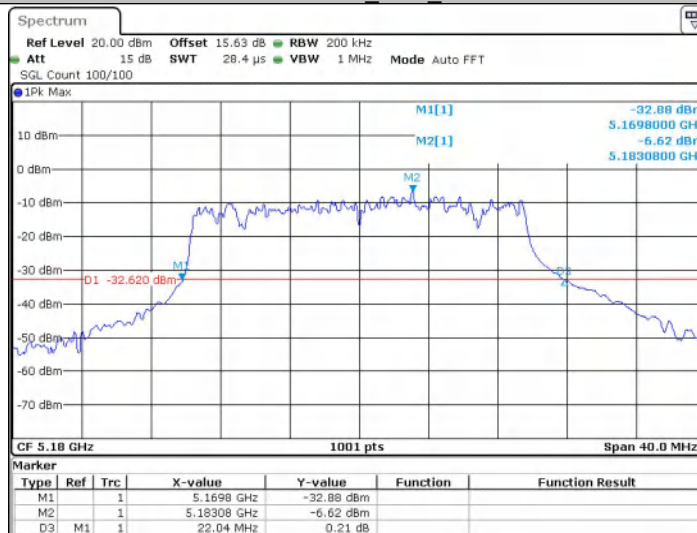
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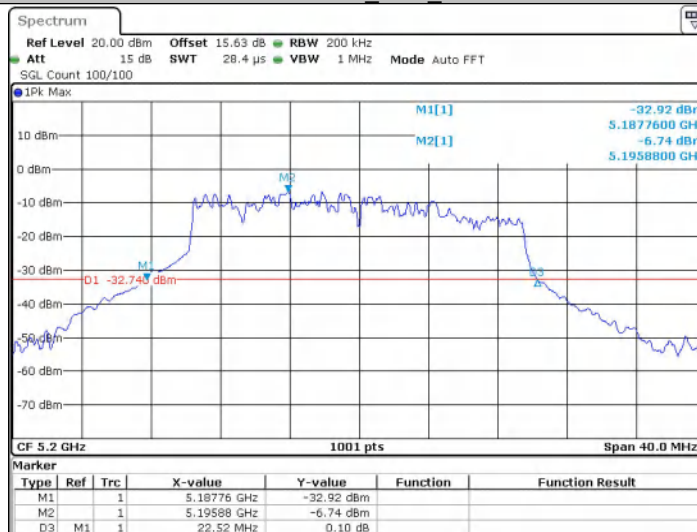
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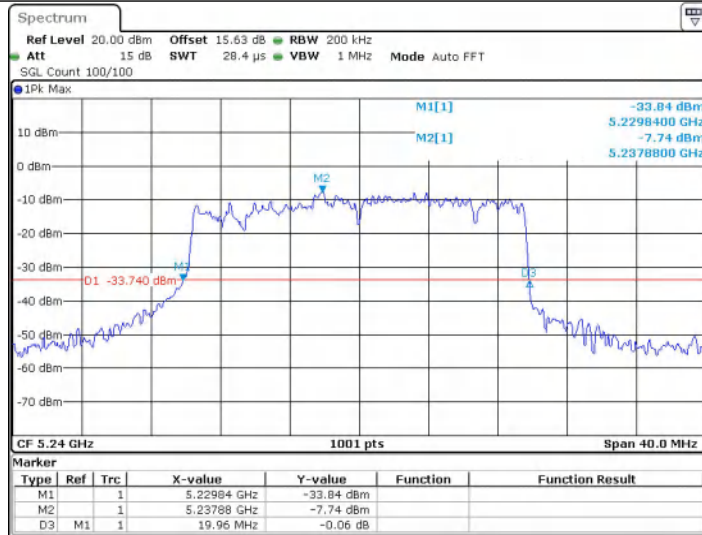
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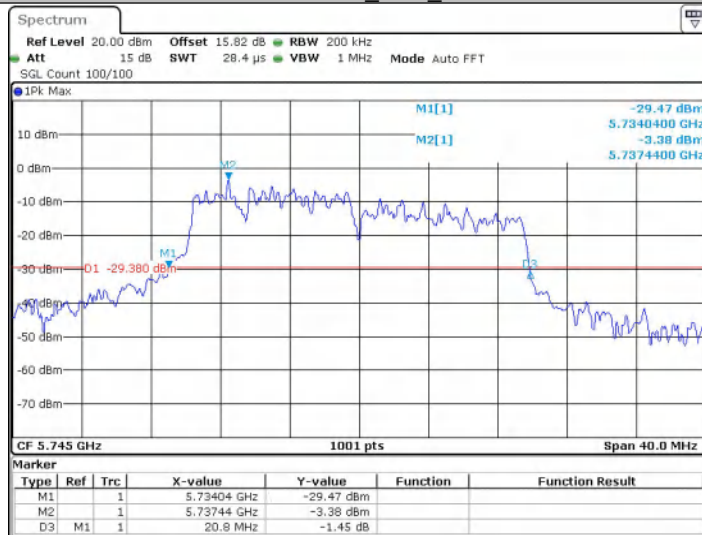
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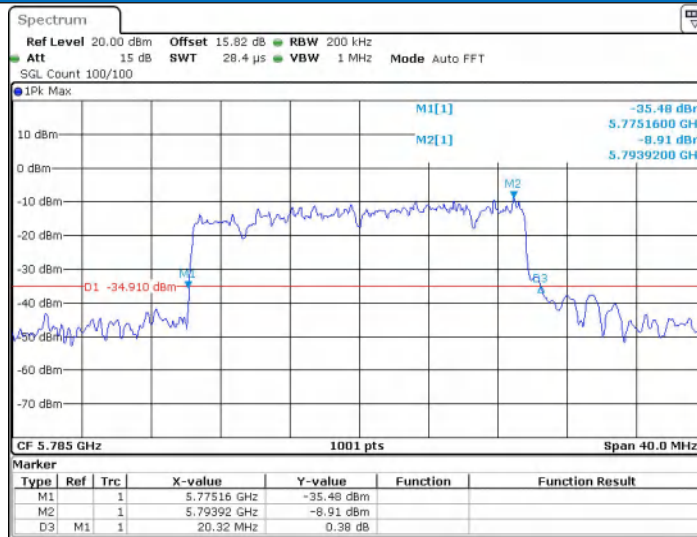
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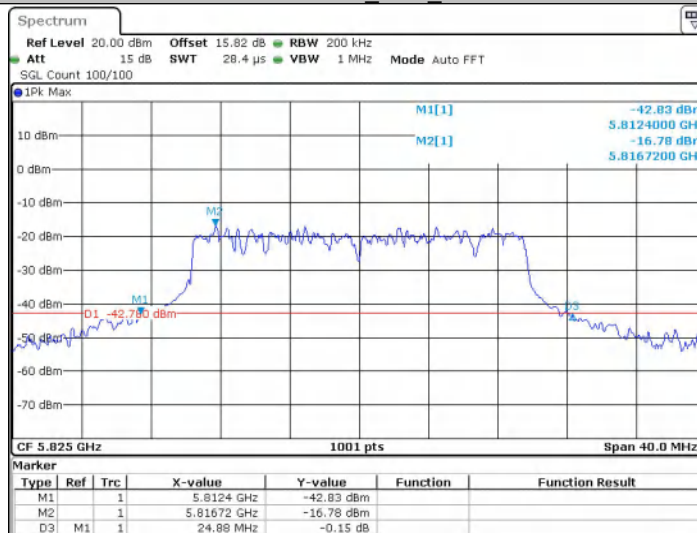
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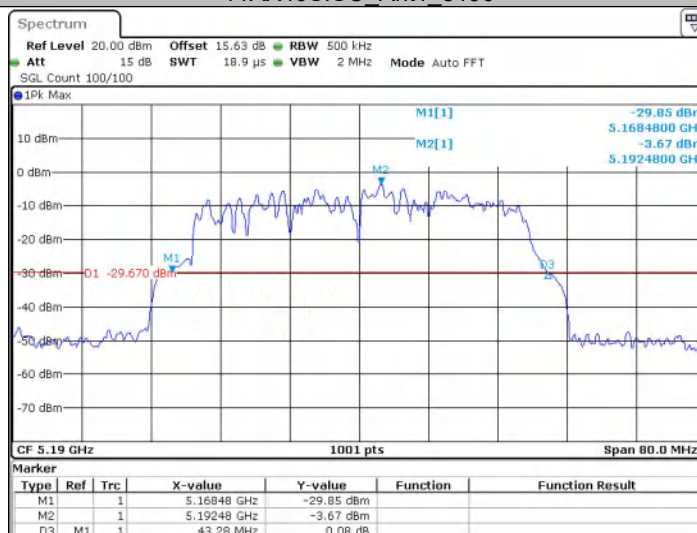
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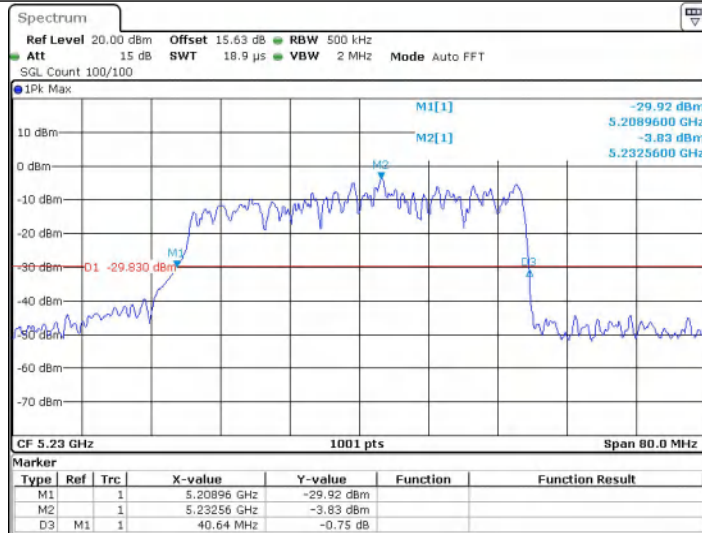
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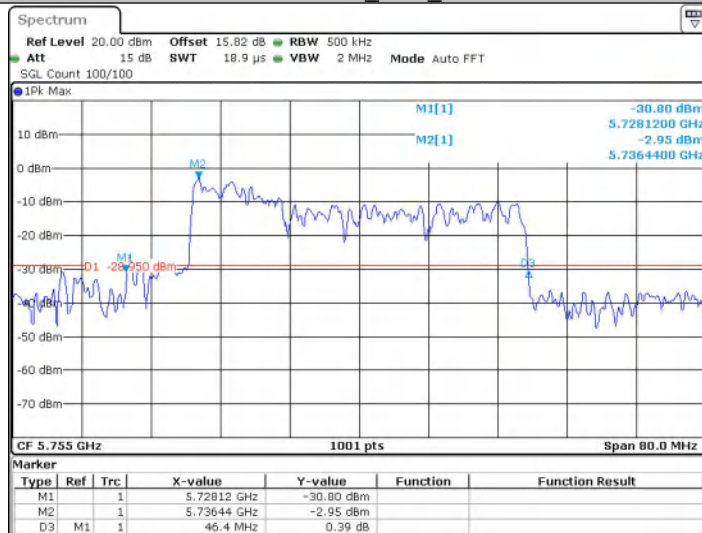
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Date: 2 JUL 2025 18:57:09

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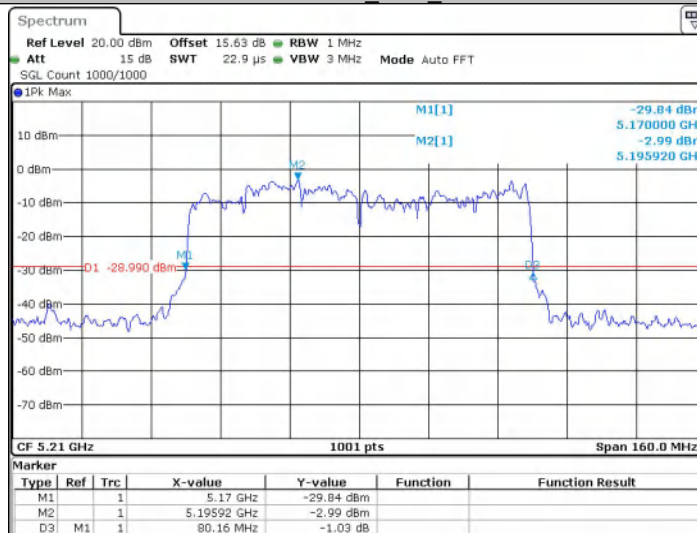
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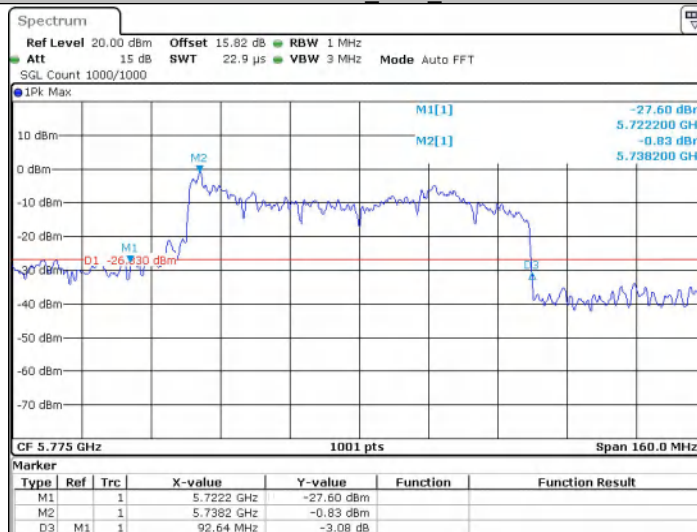
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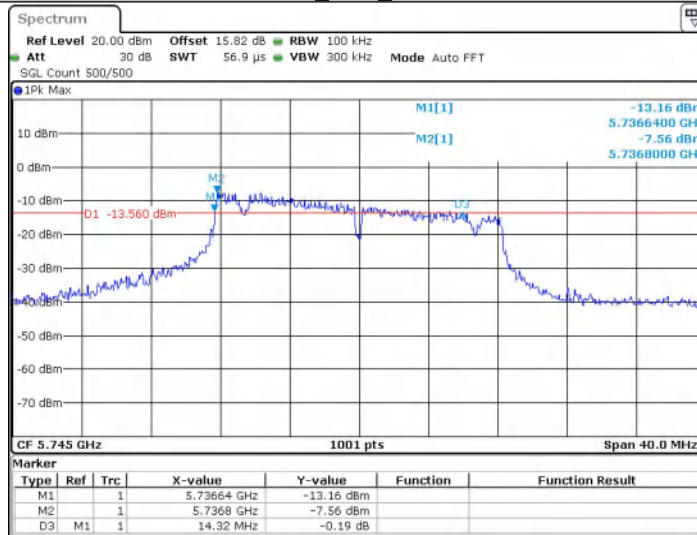
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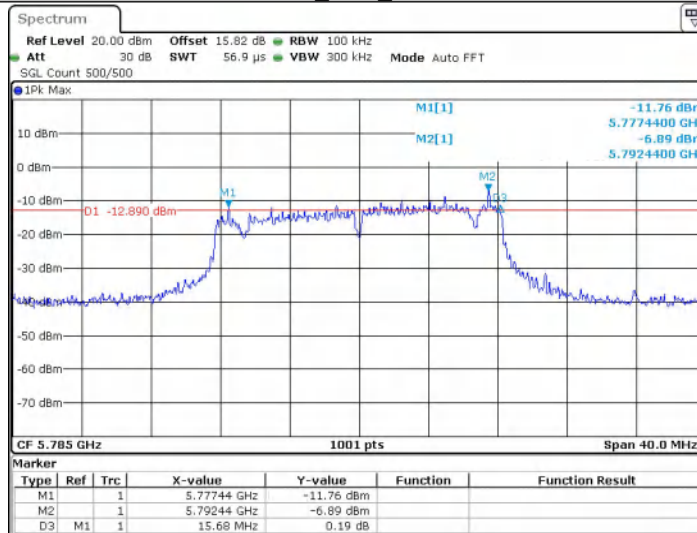
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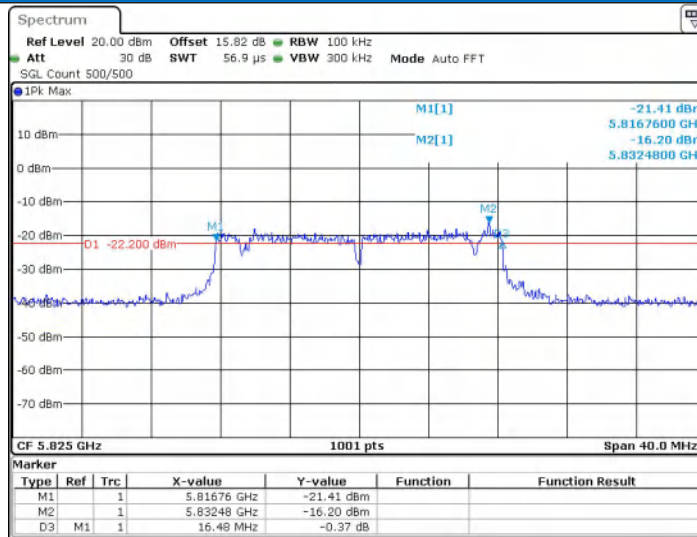
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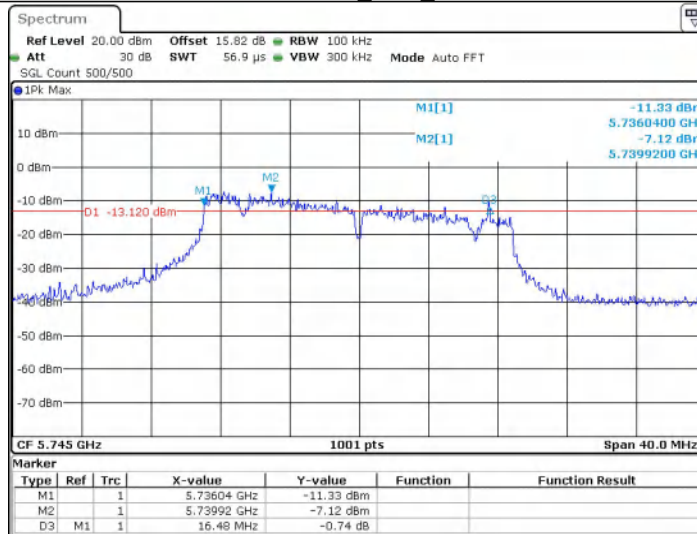
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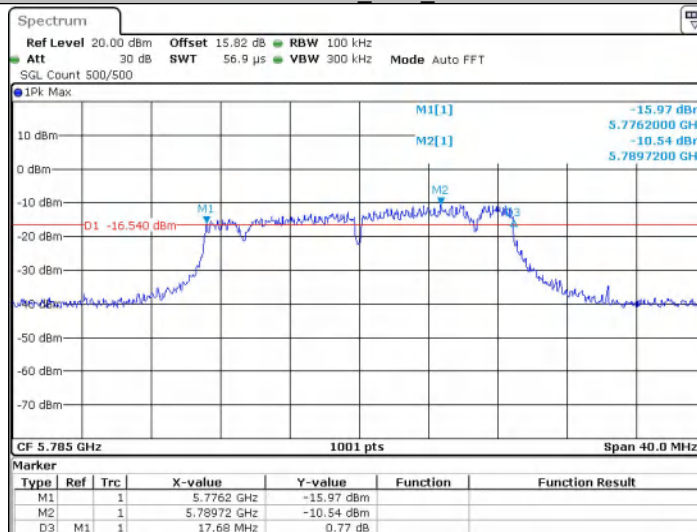
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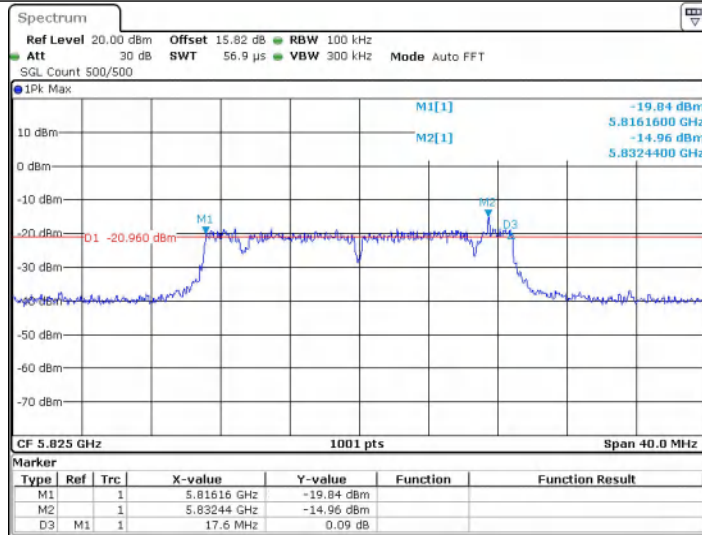
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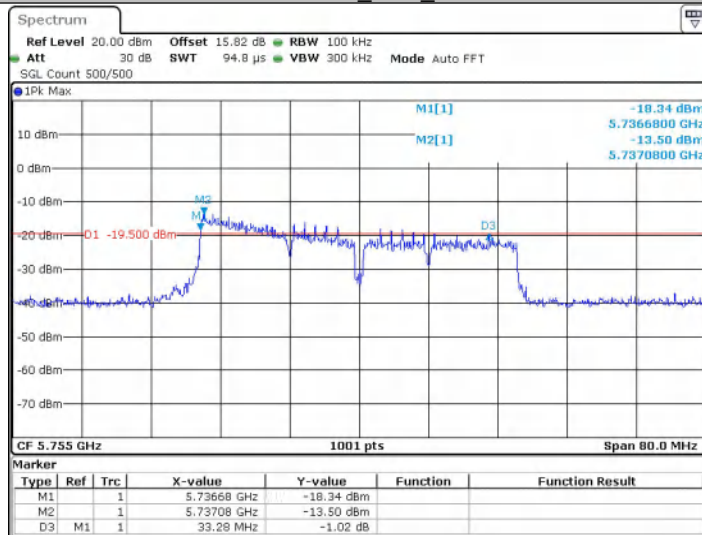
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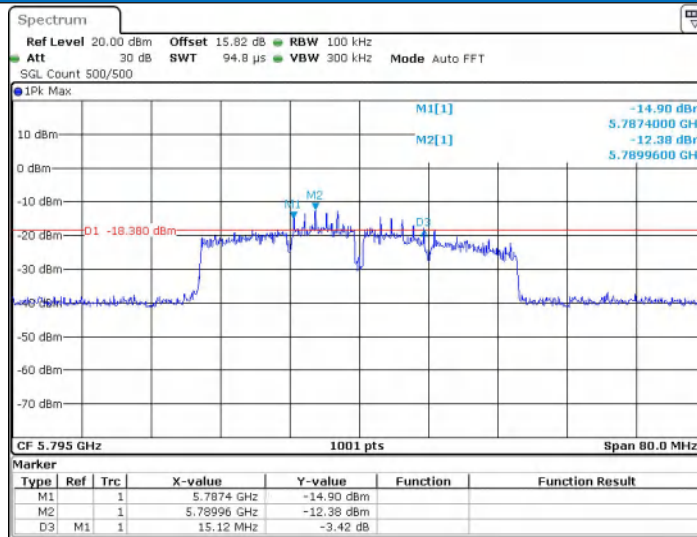
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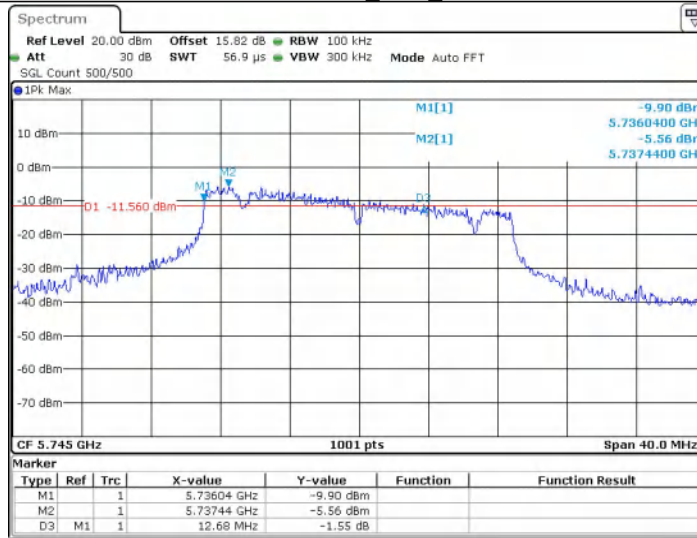


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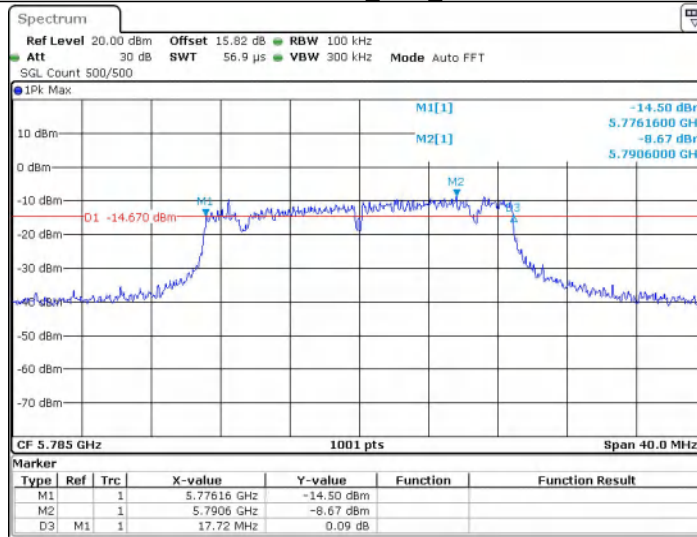
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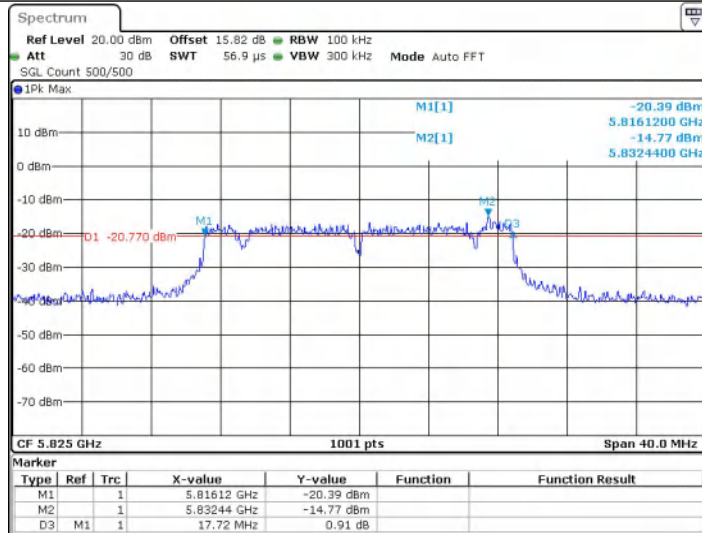
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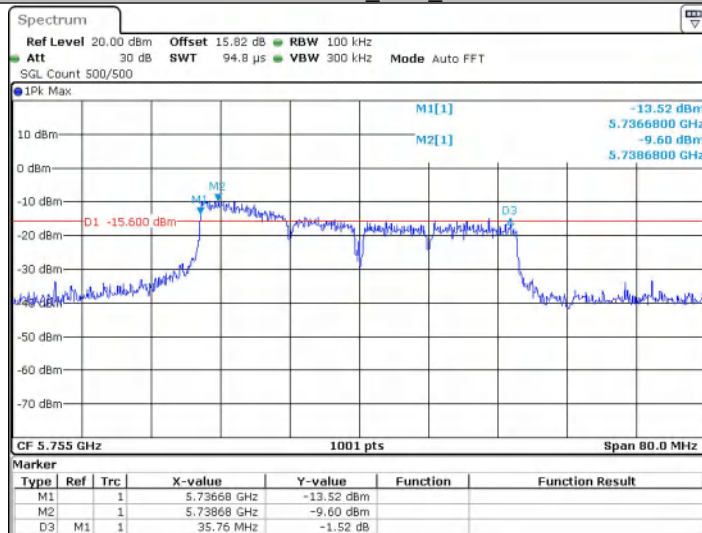


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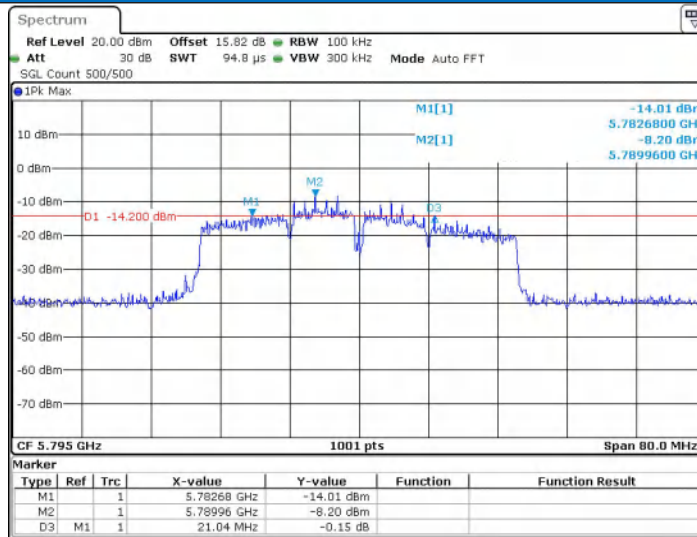
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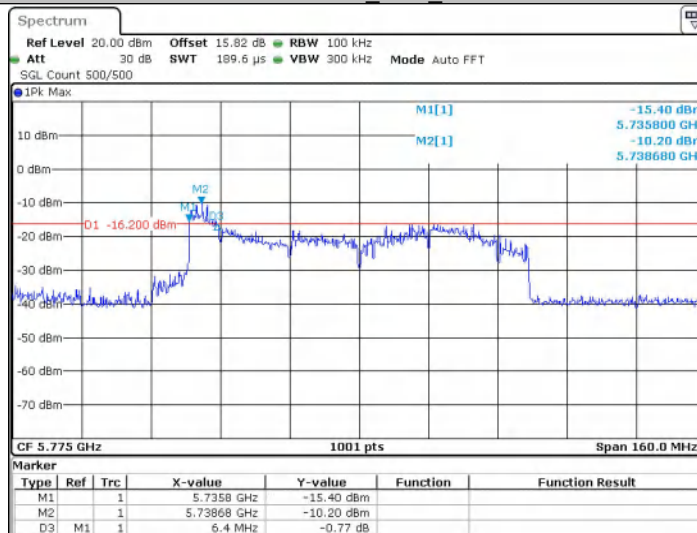
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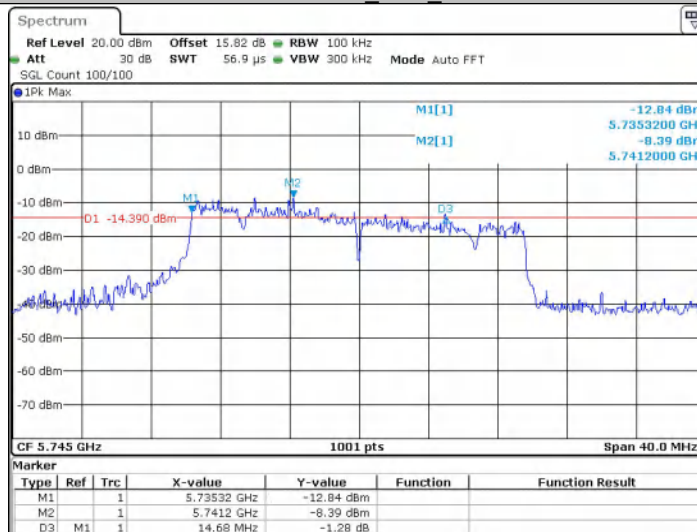
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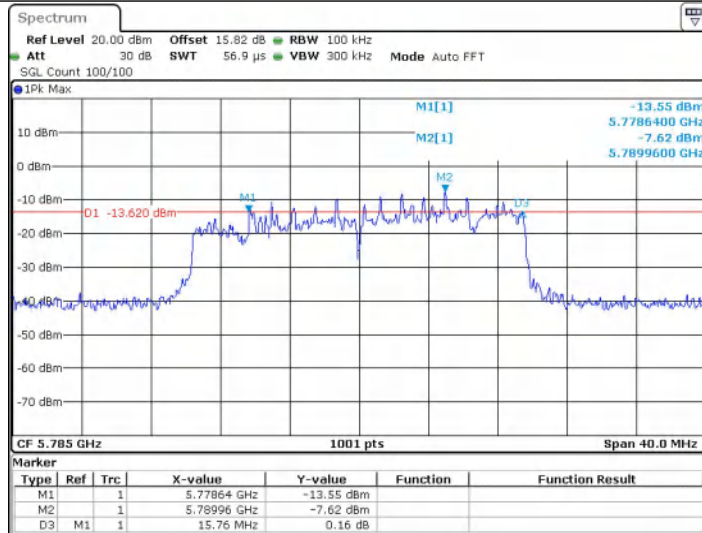
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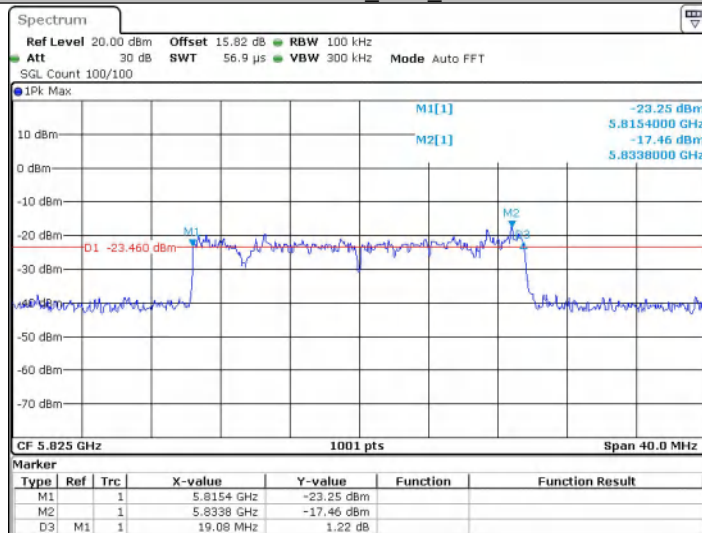
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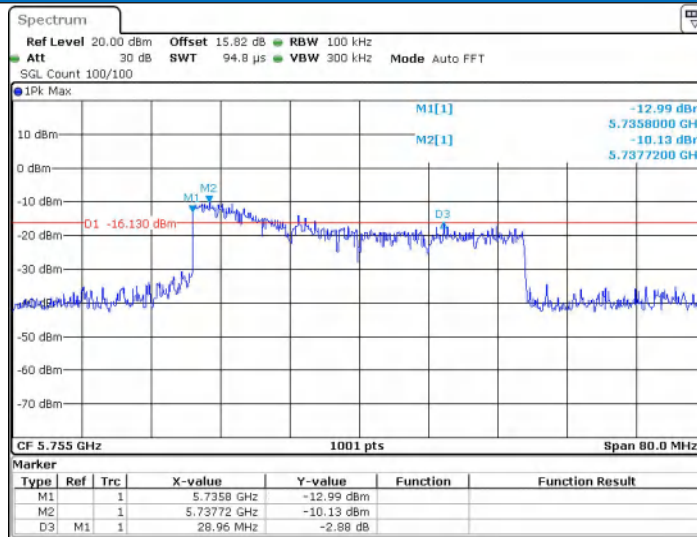
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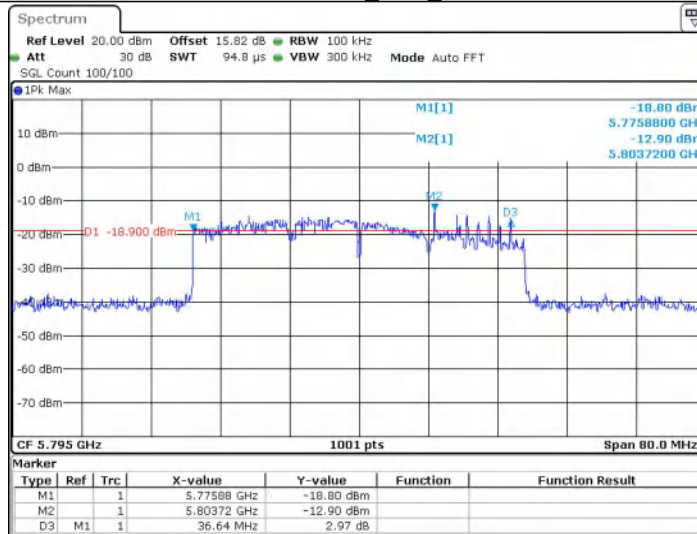
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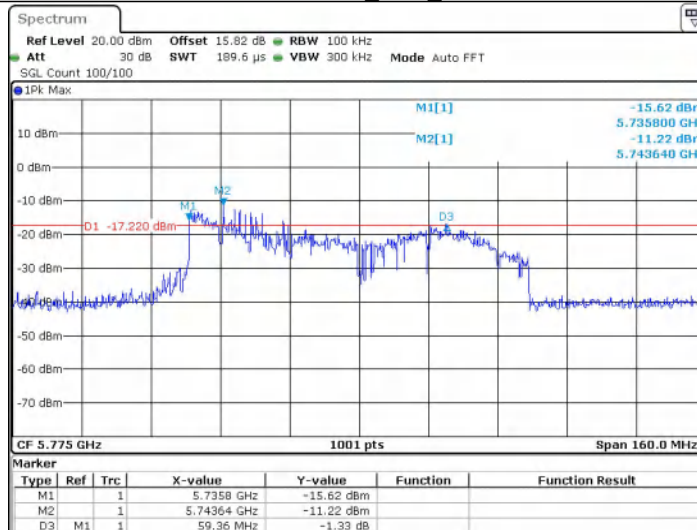
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11AX40SISO_Ant1_5795



Date: 2 JUL 2025 20:16:54

11AX80SISO_Ant1_5775



Date: 2 JUL 2025 20:32:34

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:

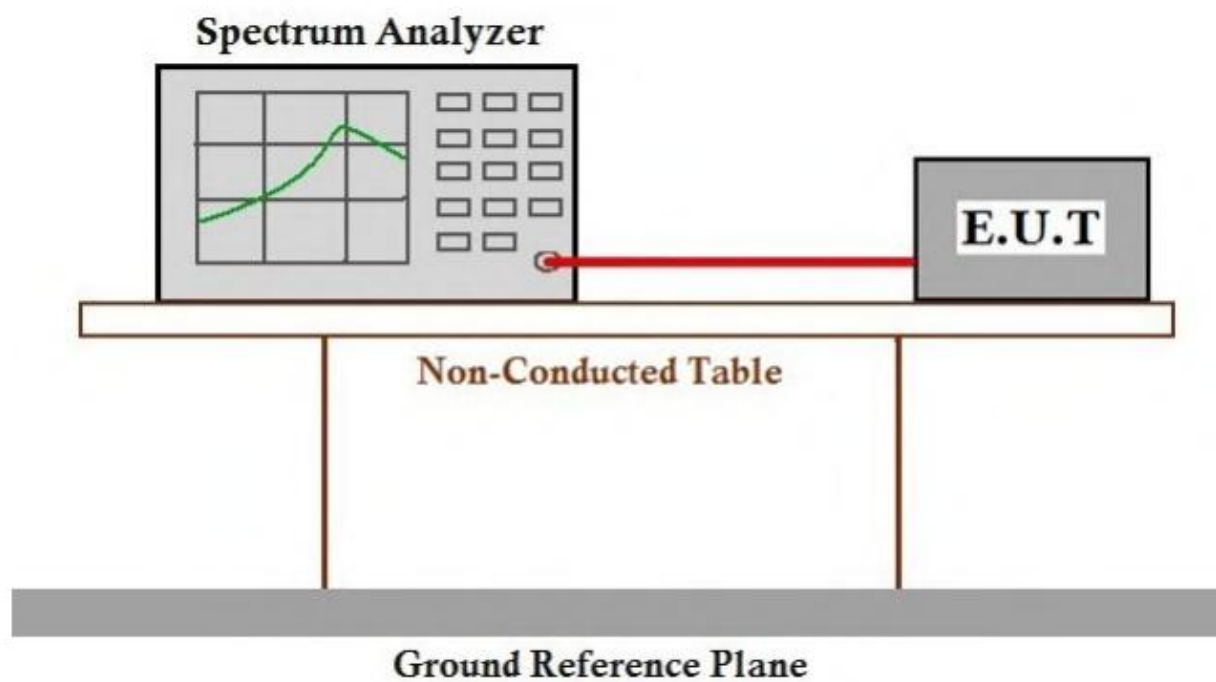
Frequency band(MHz)	Limit
5150-5250	$\leq 1\text{W}(30\text{dBm})$ for Indoor device
	$\leq 250\text{mW}(24\text{dBm})$ for client device
5250-5350	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5470-5725	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
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 $\geq$ 3 MHz.
- (3) Detector = power average
- (4) Sweep time = auto.
- (5) Add duty cycle to the measured average power.

Test Setup Diagram



Measurement Data

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	-4.99	11.99	9.21	4.22	≤23.91	PASS
		5200	-4.25	11.99	9.21	4.96	≤23.91	PASS
		5240	-4.10	11.99	9.21	5.11	≤23.91	PASS
		5745	-4.02	11.99	9.21	5.19	≤29.93	PASS
		5785	-5.60	11.90	9.24	3.64	≤29.93	PASS
		5825	-11.11	11.98	9.22	-1.89	≤29.93	PASS
11N20SISO	Ant1	5180	-4.85	11.29	9.47	4.62	≤23.91	PASS
		5200	-4.47	11.29	9.47	5.00	≤23.91	PASS
		5240	-4.37	11.29	9.47	5.10	≤23.91	PASS
		5745	-4.19	11.29	9.47	5.28	≤29.93	PASS
		5785	-5.90	11.29	9.47	3.57	≤29.93	PASS
		5825	-11.15	11.28	9.48	-1.67	≤29.93	PASS
11N40SISO	Ant1	5190	-10.47	5.94	12.26	1.79	≤23.91	PASS
		5230	-12.01	5.93	12.27	0.26	≤23.91	PASS
		5755	-12.38	5.94	12.26	-0.12	≤29.93	PASS
		5795	-12.51	6.03	12.20	-0.31	≤29.93	PASS
11AC20SISO	Ant1	5180	-3.02	11.37	9.44	6.42	≤23.91	PASS
		5200	-2.69	11.37	9.44	6.75	≤23.91	PASS
		5240	-2.75	11.37	9.44	6.69	≤23.91	PASS
		5745	-2.55	11.37	9.44	6.89	≤29.93	PASS
		5785	-4.54	11.37	9.44	4.90	≤29.93	PASS
		5825	-11.21	11.37	9.44	-1.77	≤29.93	PASS
11AC40SISO	Ant1	5190	-5.53	5.94	12.26	6.73	≤23.91	PASS
		5230	-7.17	6.03	12.20	5.03	≤23.91	PASS
		5755	-7.64	6.03	12.20	4.56	≤29.93	PASS
		5795	-8.21	5.94	12.26	4.05	≤29.93	PASS
11AC80SISO	Ant1	5210	-11.68	2.73	15.64	3.96	≤23.91	PASS
		5775	-10.83	2.73	15.64	4.81	≤29.93	PASS
11AX20SISO	Ant1	5180	-5.88	9.15	10.39	4.51	≤23.91	PASS
		5200	-5.78	9.07	10.42	4.64	≤23.91	PASS
		5240	-5.53	9.15	10.39	4.86	≤23.91	PASS
		5745	-5.48	9.07	10.42	4.94	≤29.93	PASS
		5785	-7.54	8.98	10.47	2.93	≤29.93	PASS

		5825	-14.02	9.15	10.39	-3.63	≤29.93	PASS
11AX40SIS O	Ant1	5190	-6.19	4.93	13.07	6.88	≤23.91	PASS
		5230	-7.76	5.21	12.83	5.07	≤23.91	PASS
		5755	-8.13	5.02	12.99	4.86	≤29.93	PASS
		5795	-8.79	5.02	12.99	4.20	≤29.93	PASS
11AX80SIS O	Ant1	5210	-9.98	2.62	15.82	5.84	≤23.91	PASS
		5775	-11.07	2.62	15.82	4.75	≤29.93	PASS

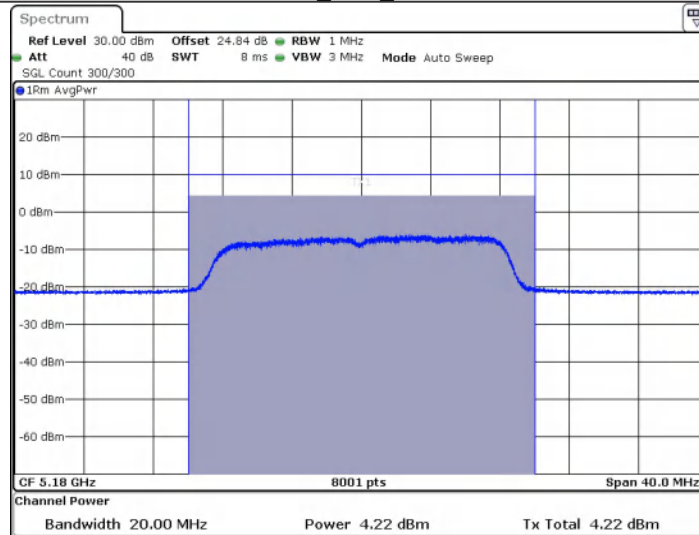
Remark:

$$Av.Power = Meas.Level + 10 \log(1/duty \text{ cycle})$$

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

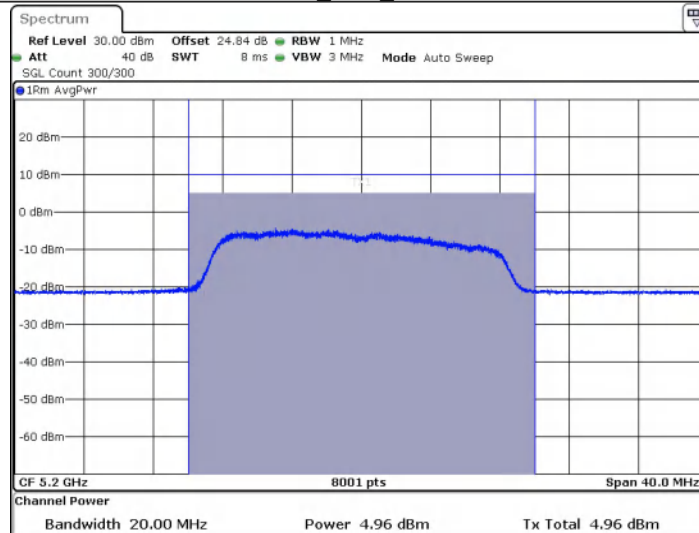
$$G = \text{antenna gain in dBi.}$$

11A_Ant1_5180



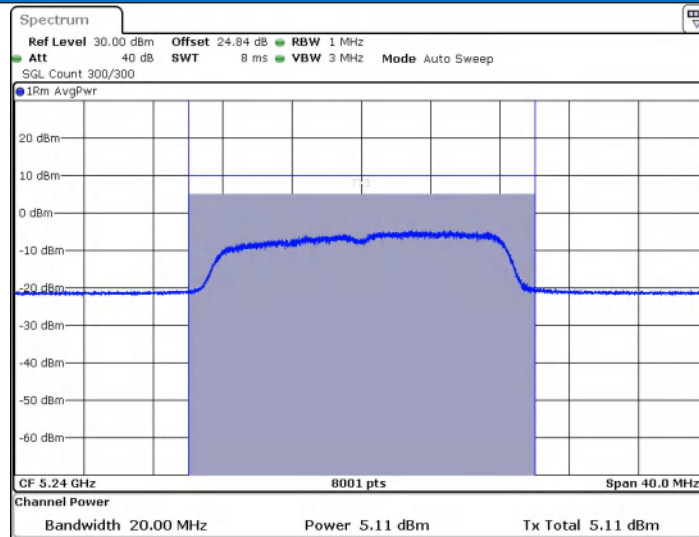
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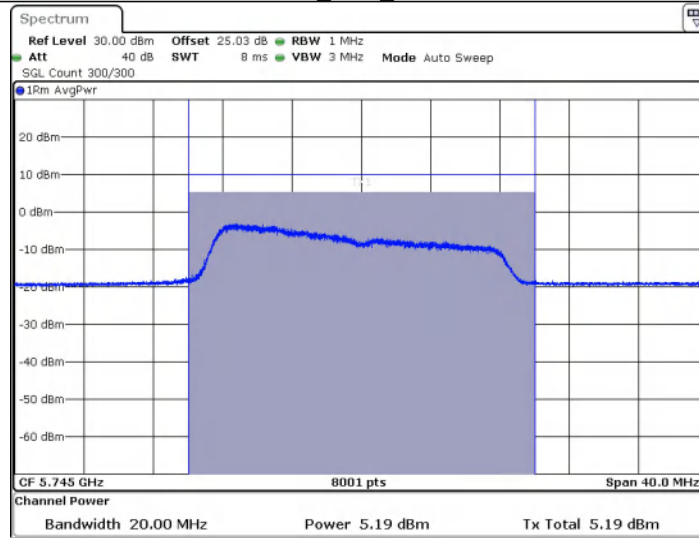


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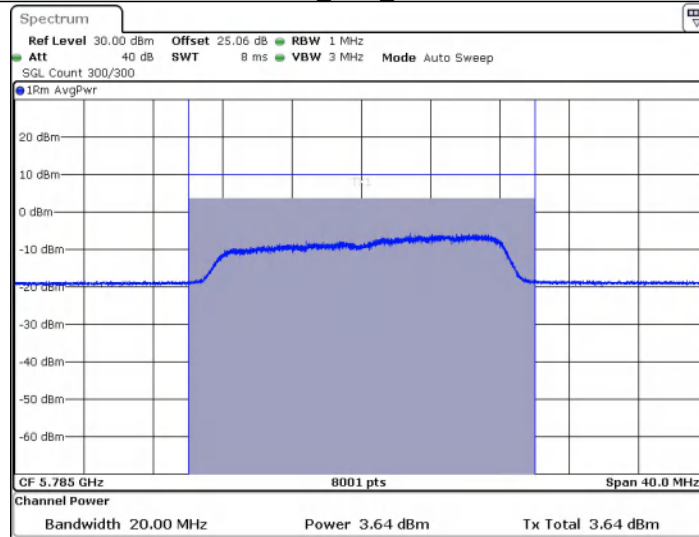
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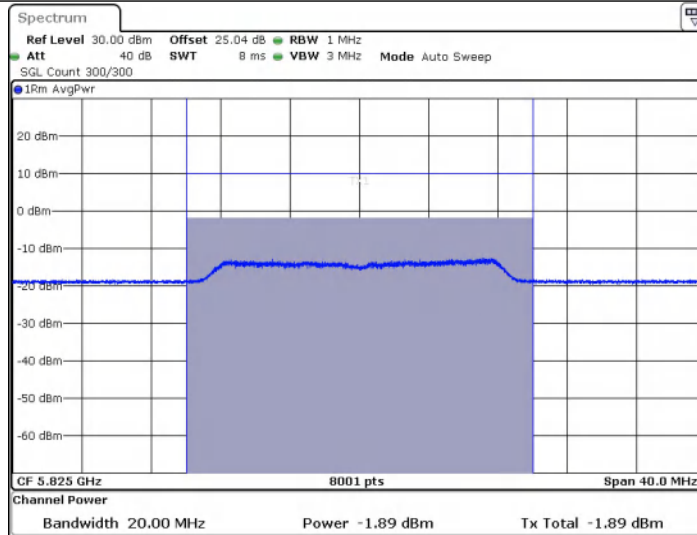
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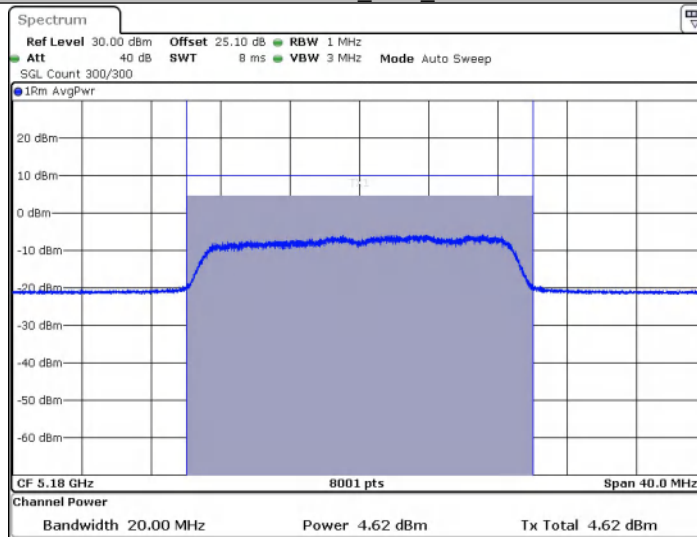
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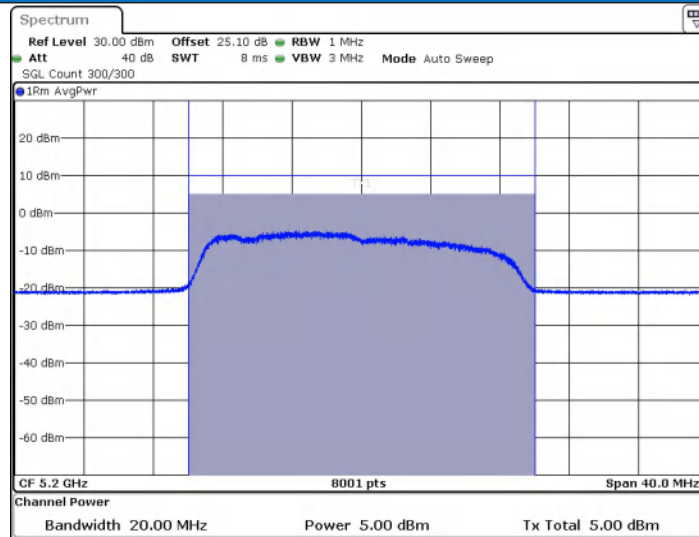
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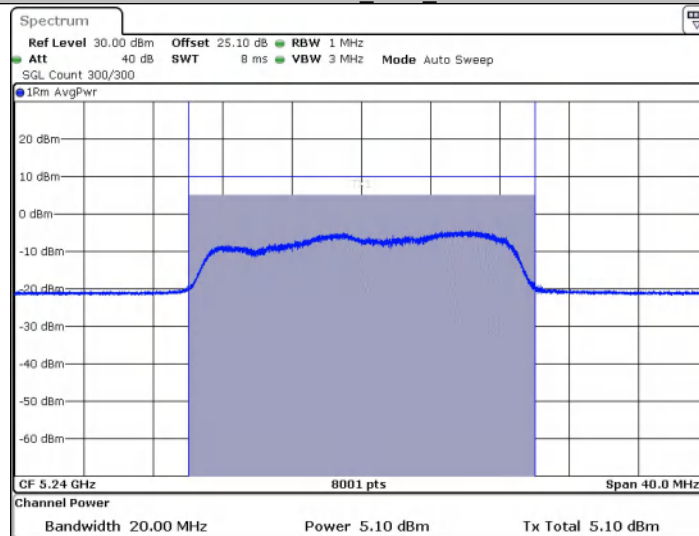


11N20SISO_Ant1_5200



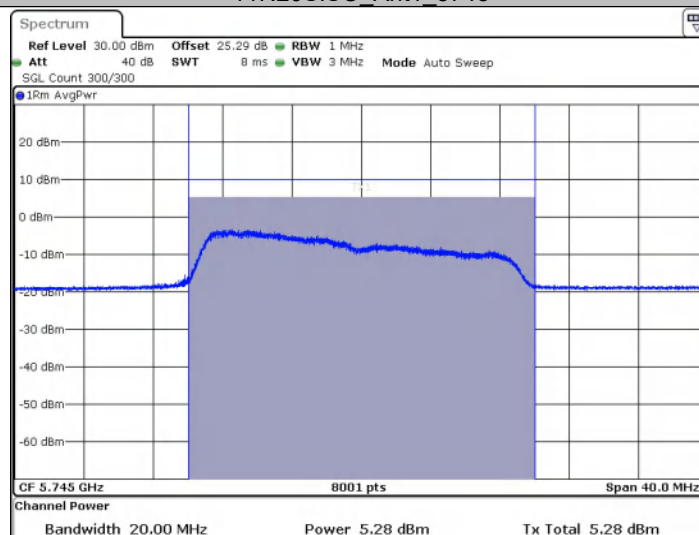
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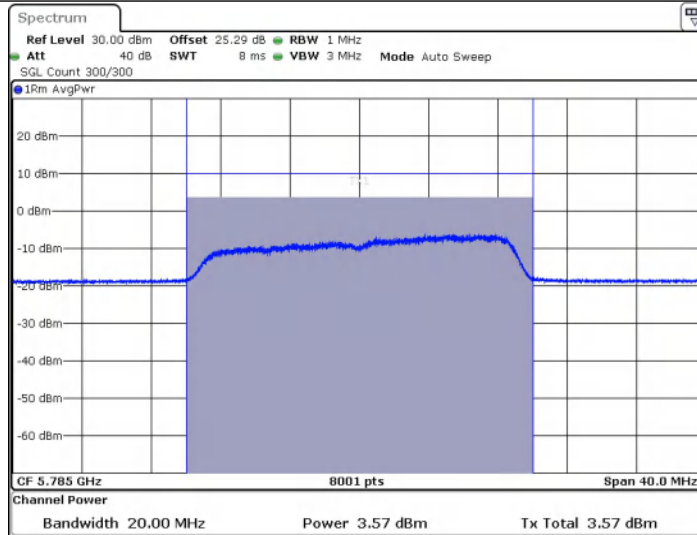
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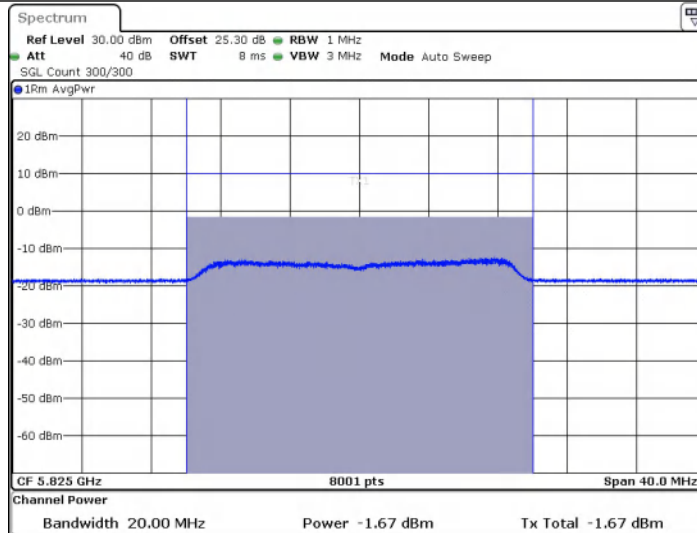
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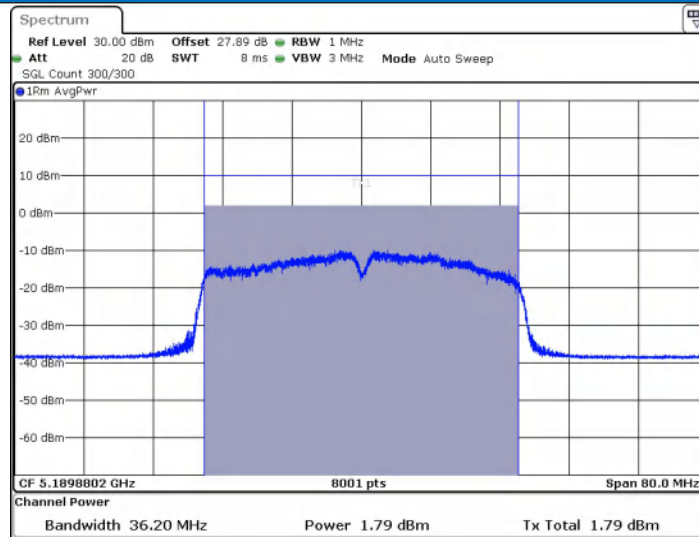
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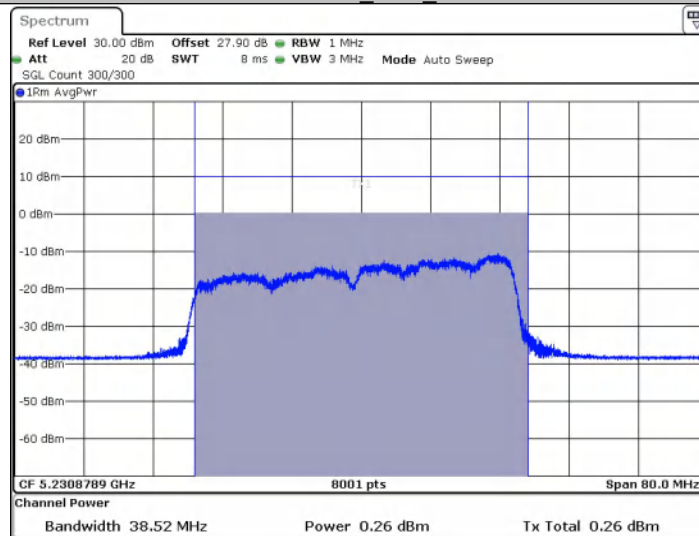
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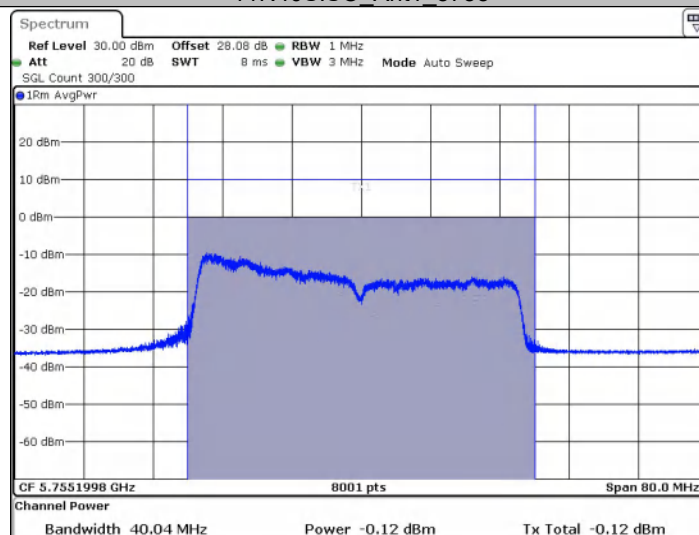
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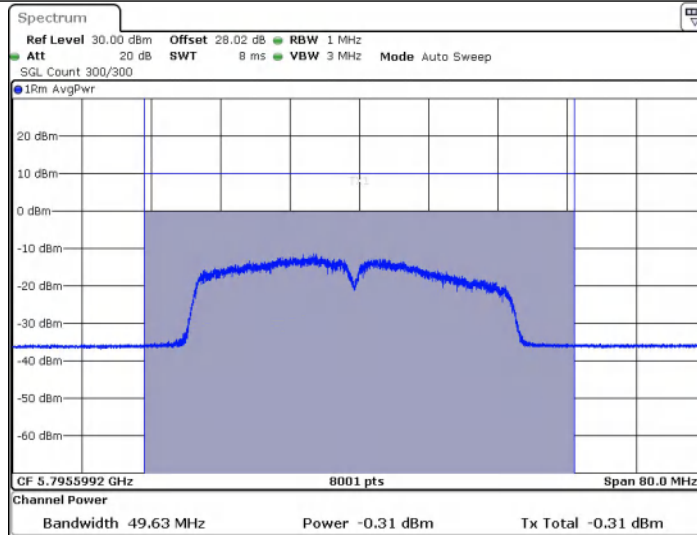
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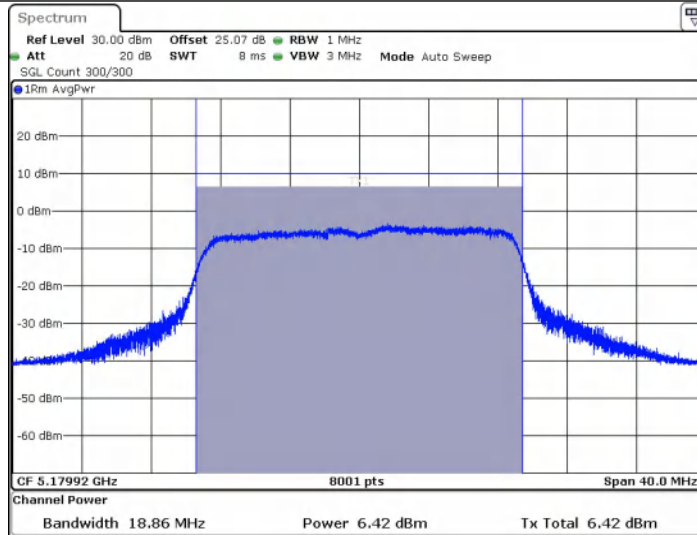


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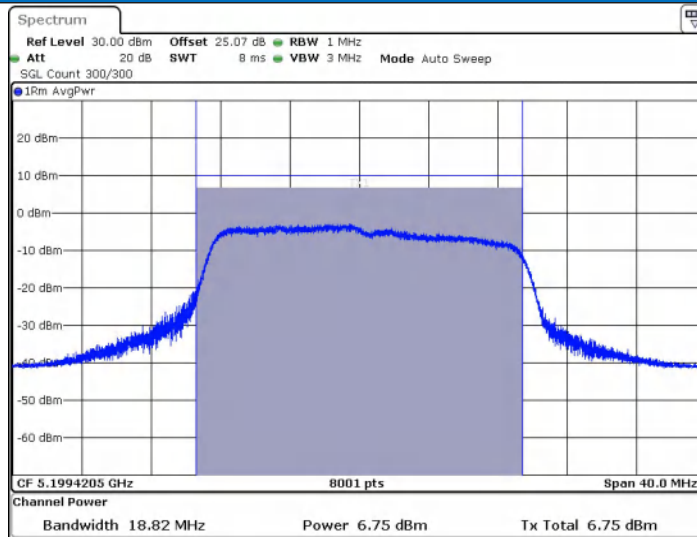
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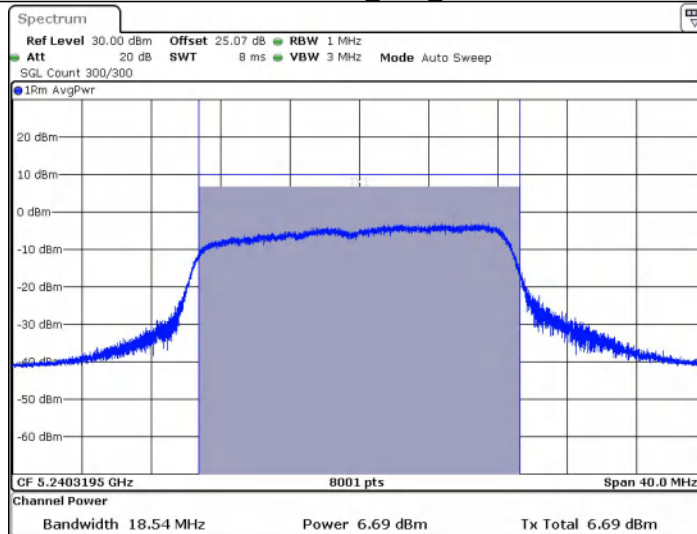


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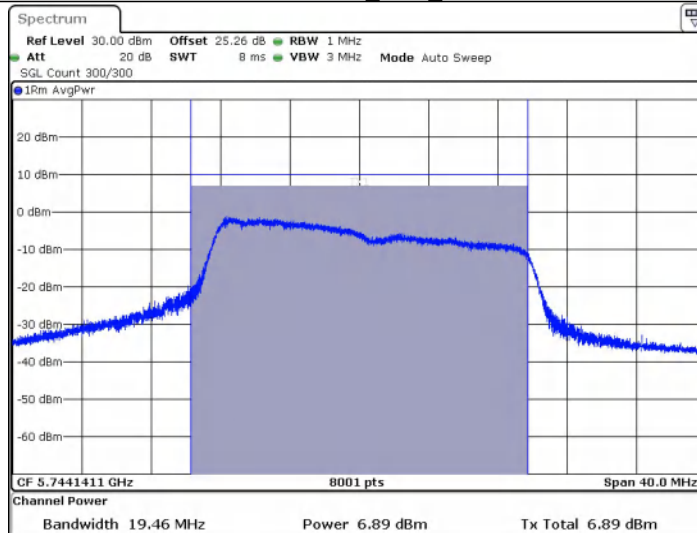
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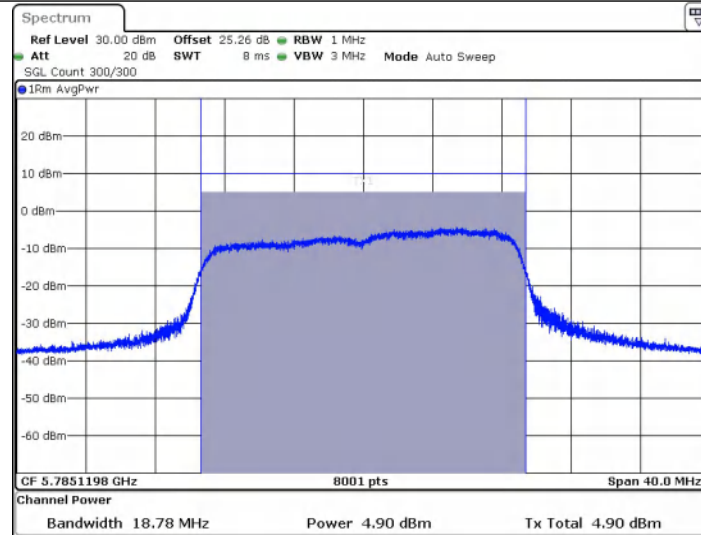
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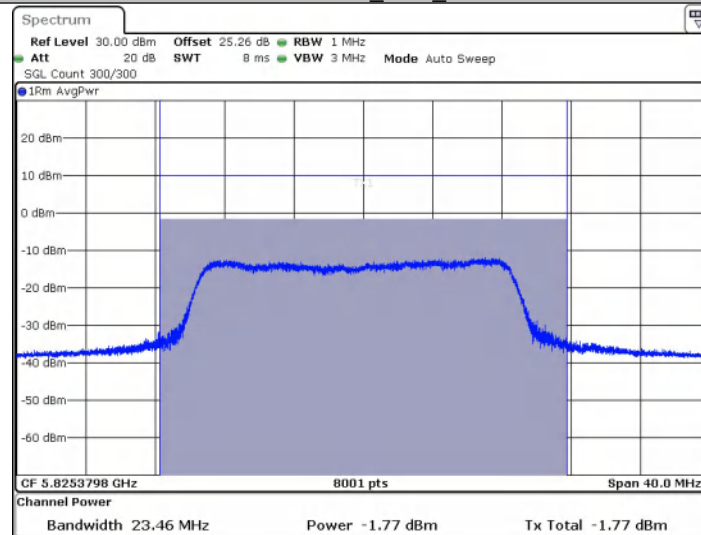
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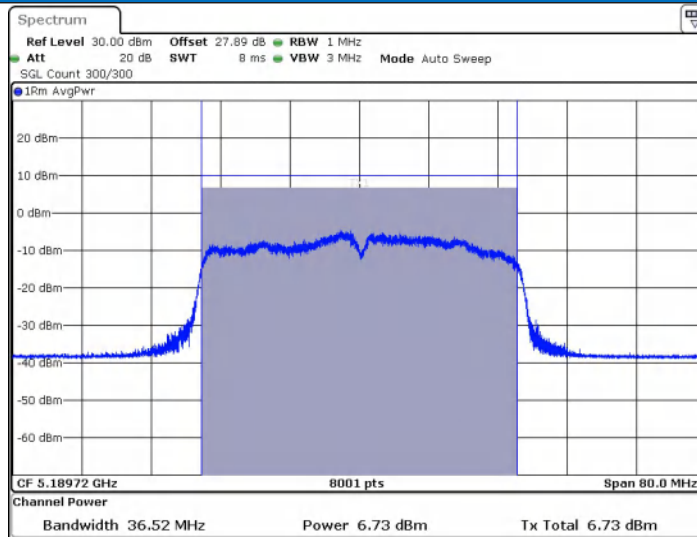
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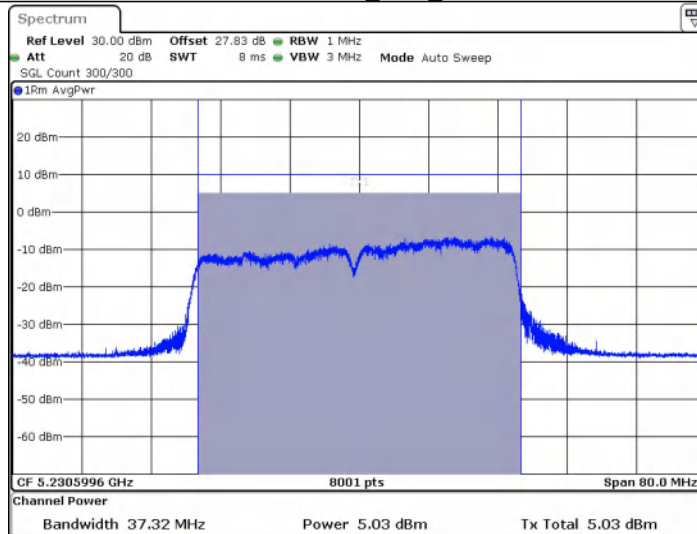
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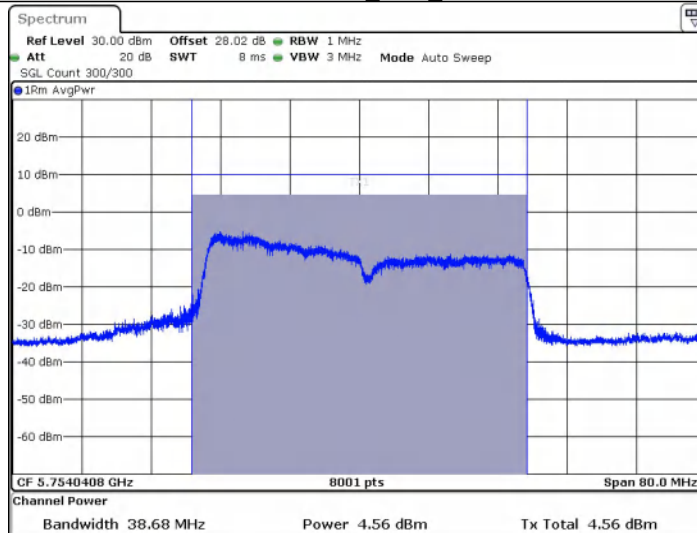
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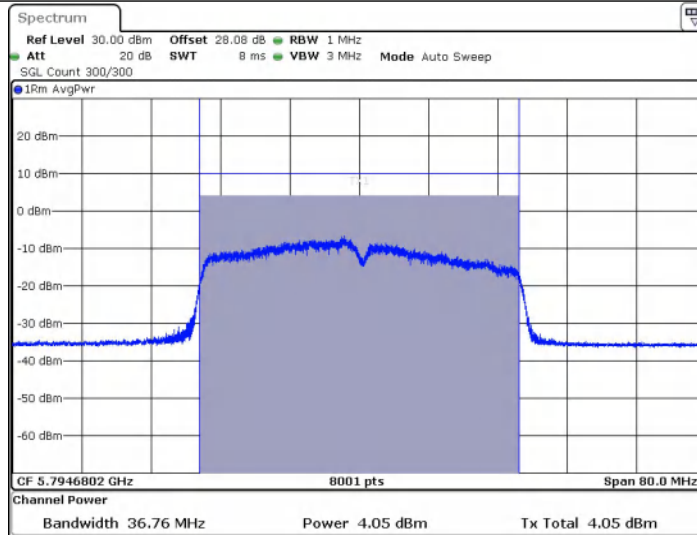
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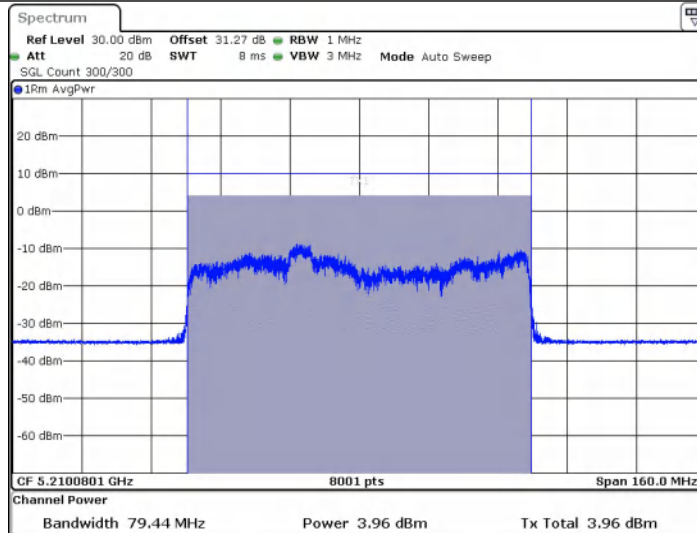
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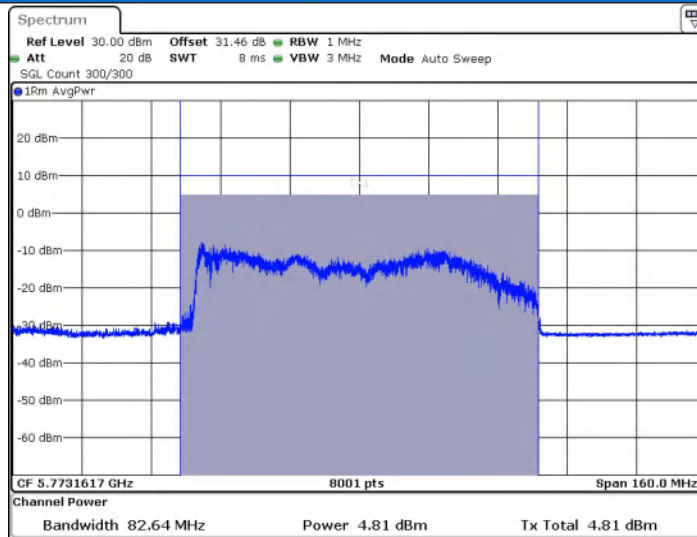
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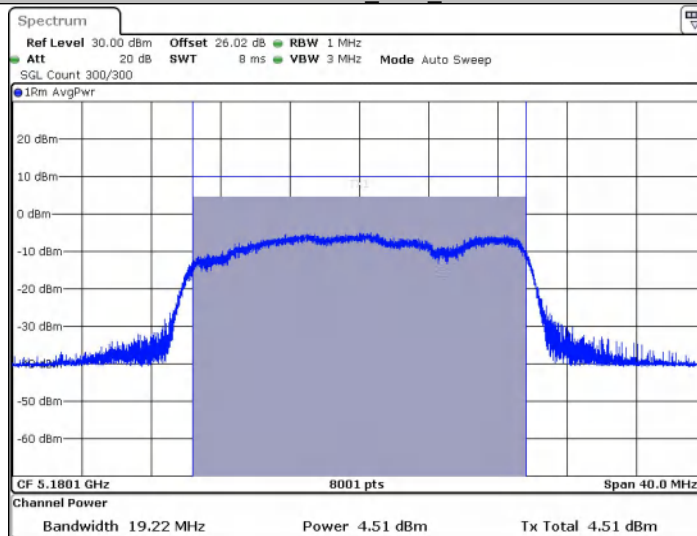
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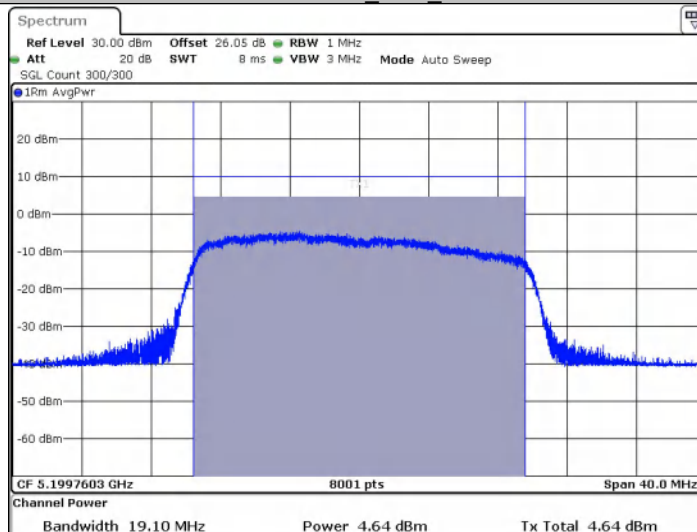
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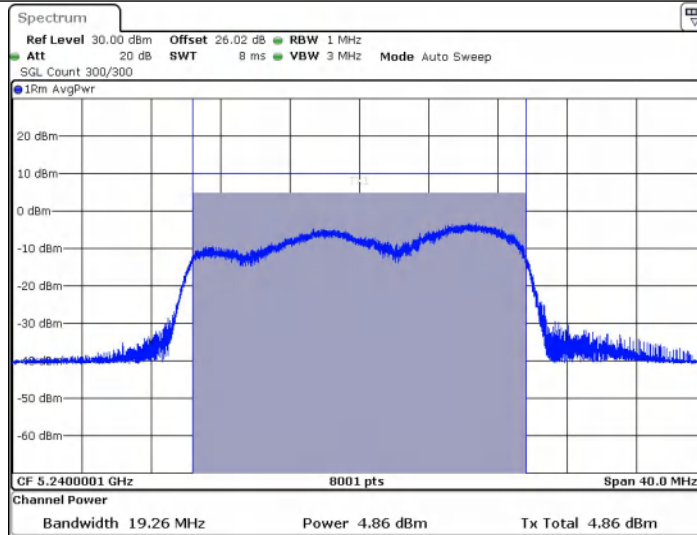
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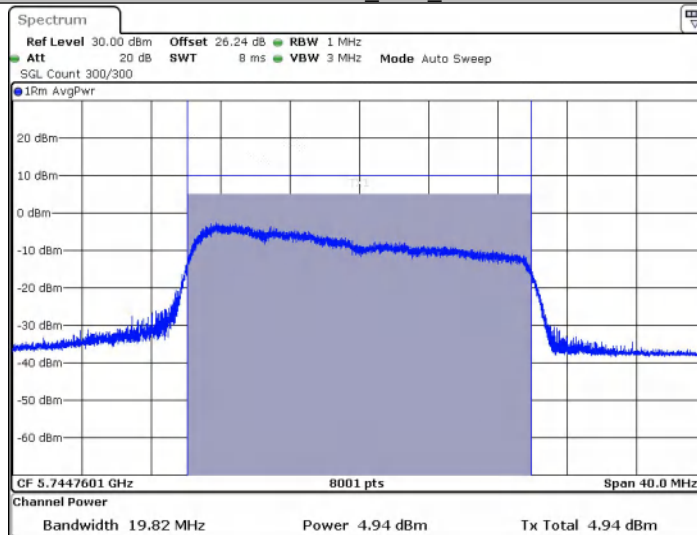


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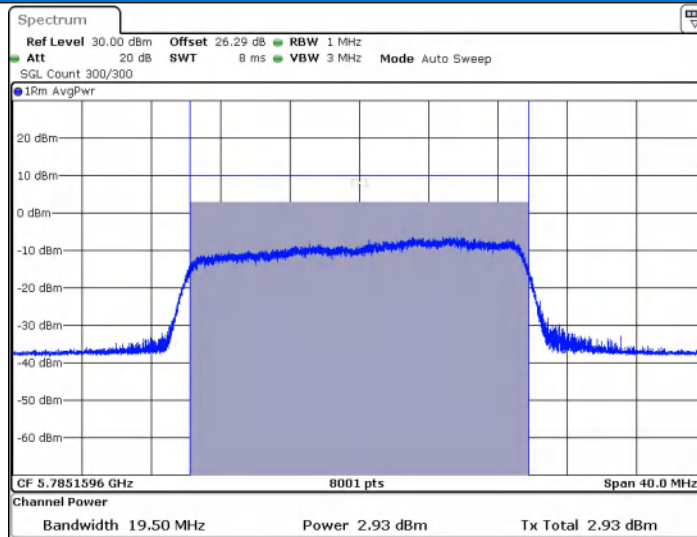
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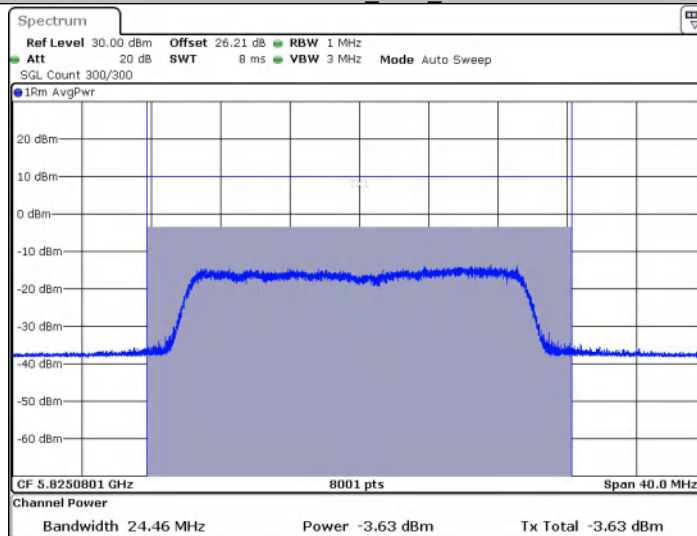


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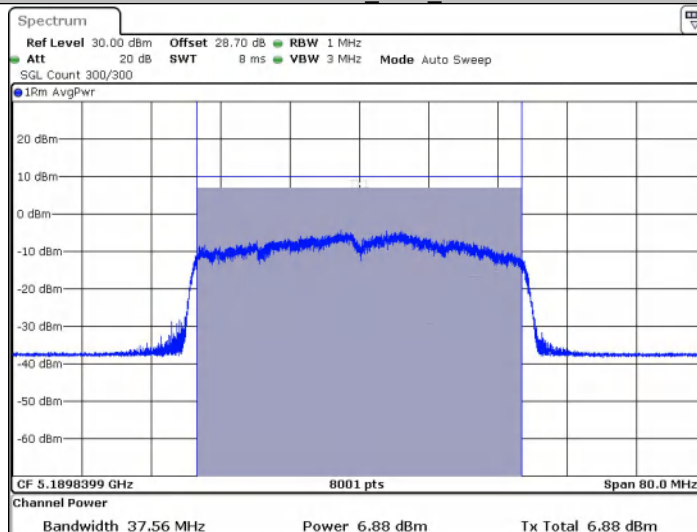
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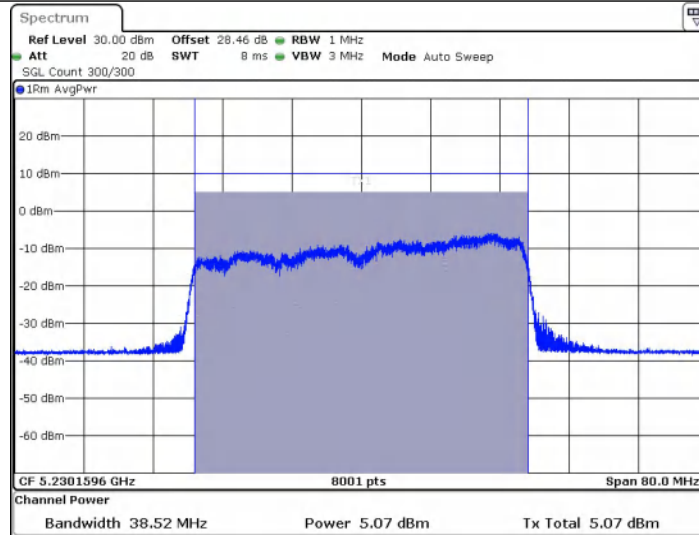
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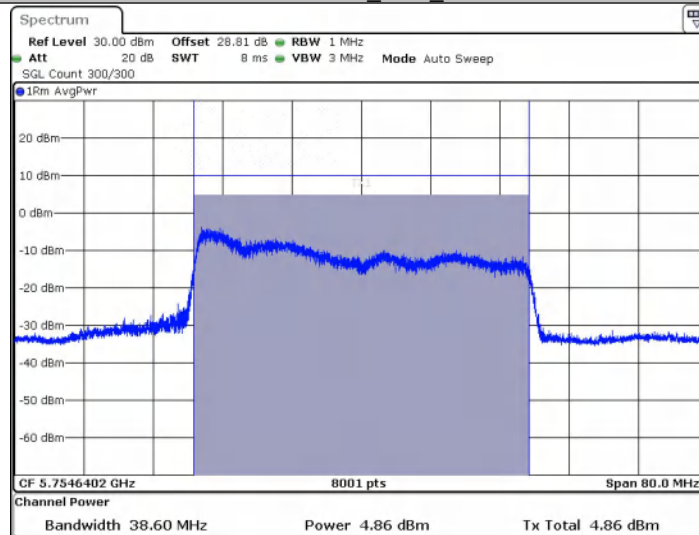
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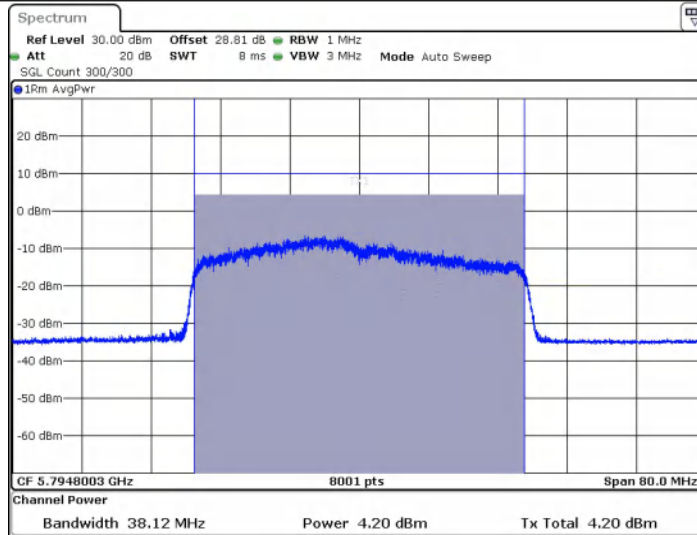
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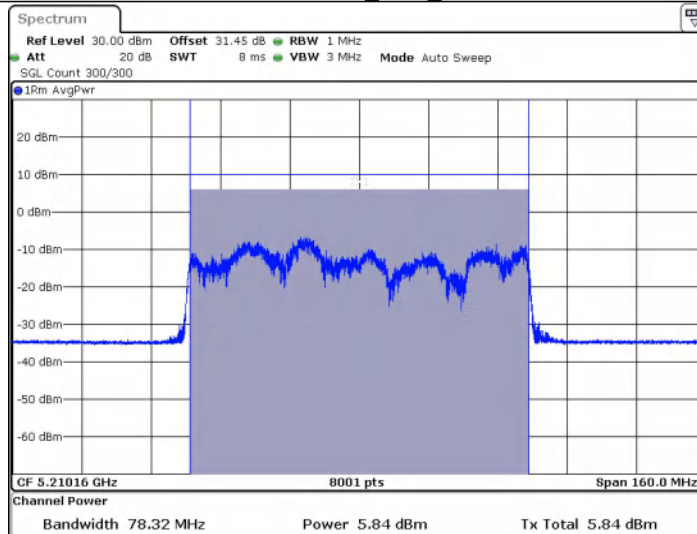
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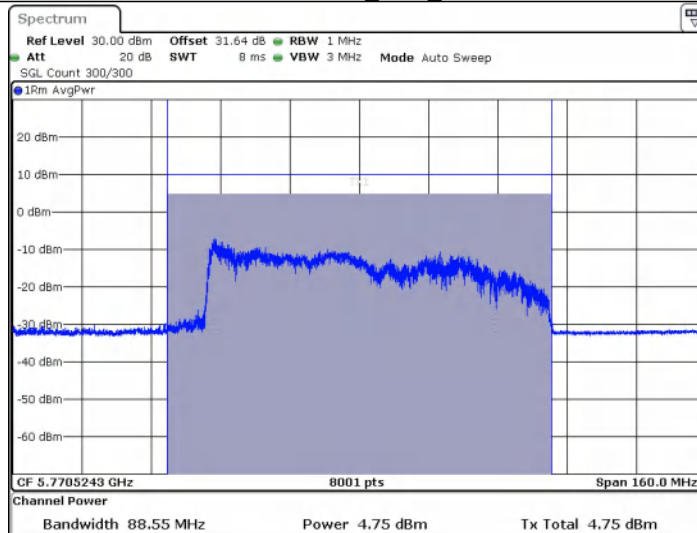
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11AX80SISO_Ant1_5210



Date: 2 JUL 2025 20:21:41

11AX80SISO_Ant1_5775



Date: 2 JUL 2025 20:33:22

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.

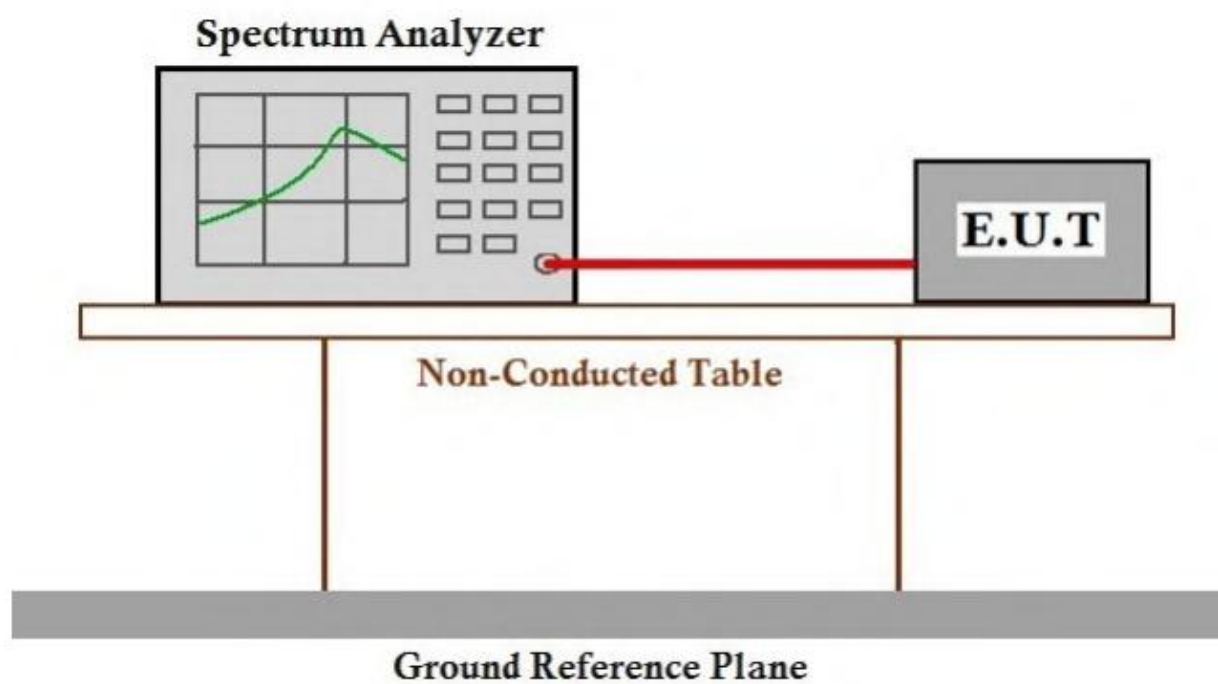
For 5725-5850MHz:

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

TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5180	-5.70	≤10.93	PASS
	5200	-4.19	≤10.93	PASS
	5240	-4.50	≤10.93	PASS
	5745	-6.09	≤29.93	PASS
	5785	-8.35	≤29.93	PASS
	5825	-16.77	≤29.93	PASS
11N20SISO	5180	-5.64	≤10.93	PASS
	5200	-4.07	≤10.93	PASS
	5240	-5.44	≤10.93	PASS
	5745	-5.74	≤29.93	PASS
	5785	-9.10	≤29.93	PASS
	5825	-16.97	≤29.93	PASS
11N40SISO	5190	-10.74	≤10.93	PASS
	5230	-10.39	≤10.93	PASS
	5755	-10.87	≤29.93	PASS
	5795	-14.90	≤29.93	PASS
11AC20SISO	5180	-3.46	≤10.93	PASS
	5200	-2.88	≤10.93	PASS
	5240	-2.84	≤10.93	PASS
	5745	-3.96	≤29.93	PASS
	5785	-7.95	≤29.93	PASS
	5825	-14.95	≤29.93	PASS
11AC40SISO	5190	-5.52	≤10.93	PASS
	5230	-4.93	≤10.93	PASS
	5755	-7.60	≤29.93	PASS
	5795	-8.76	≤29.93	PASS
11AC80SISO	5210	-9.96	≤10.93	PASS
	5775	-7.19	≤29.93	PASS
11AX20SISO	5180	-6.28	≤10.93	PASS
	5200	-4.33	≤10.93	PASS
	5240	-4.12	≤10.93	PASS
	5745	-6.40	≤29.93	PASS
	5785	-8.12	≤29.93	PASS
	5825	-16.40	≤29.93	PASS
11AX40SISO	5190	-3.90	≤10.93	PASS

	5230	-4.80	≤ 10.93	PASS
	5755	-5.85	≤ 29.93	PASS
	5795	-9.69	≤ 29.93	PASS
11AX80SISO	5210	-7.65	≤ 10.93	PASS
	5775	-5.13	≤ 29.93	PASS

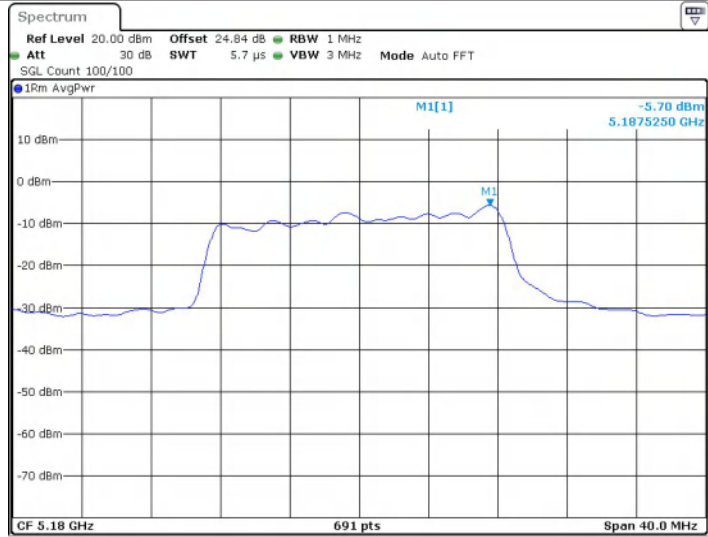
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Remark:

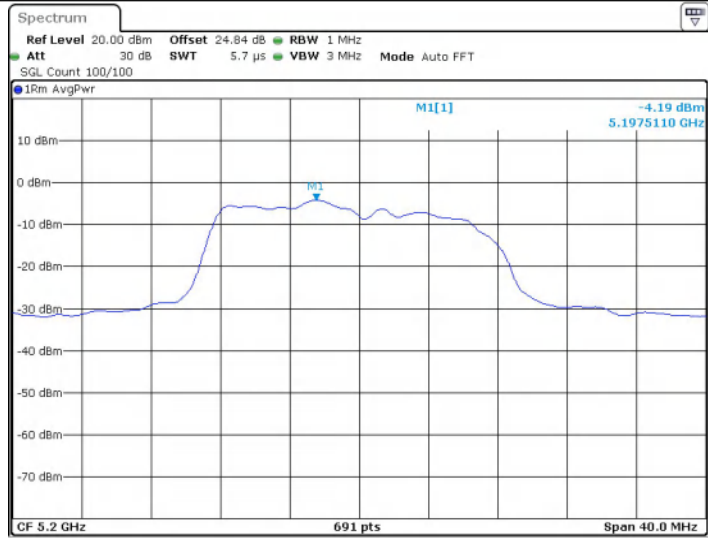
PSD = Meas PSD + Duty Cycle Factor

11A_Ant1_5180



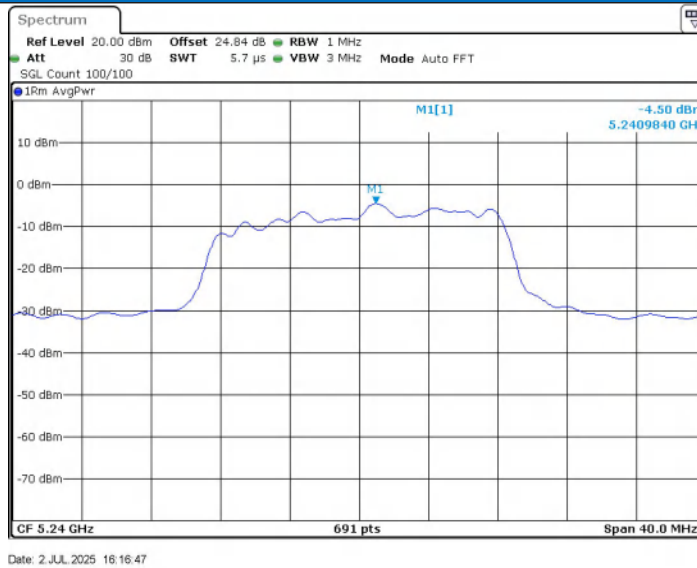
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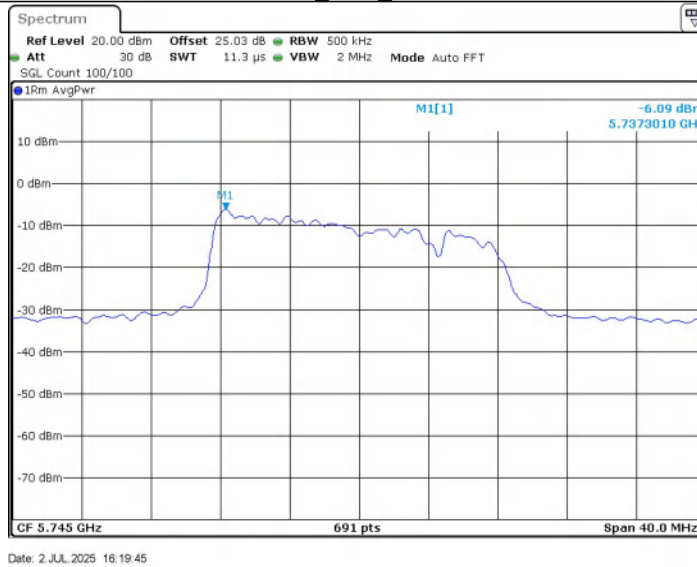


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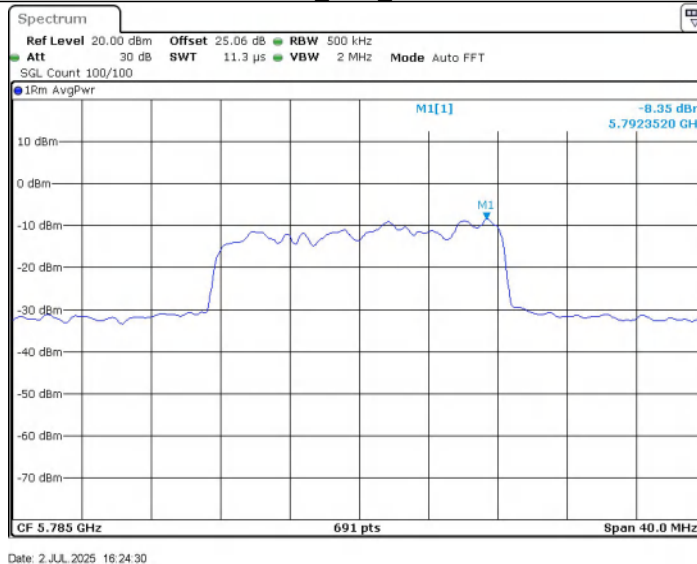
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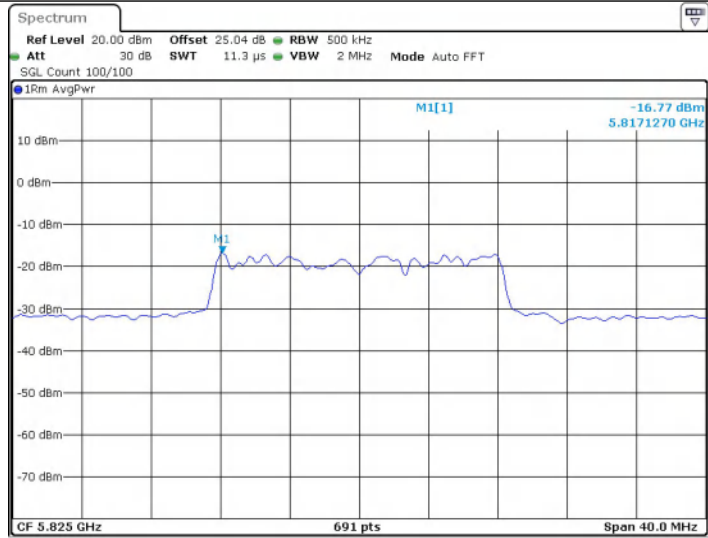
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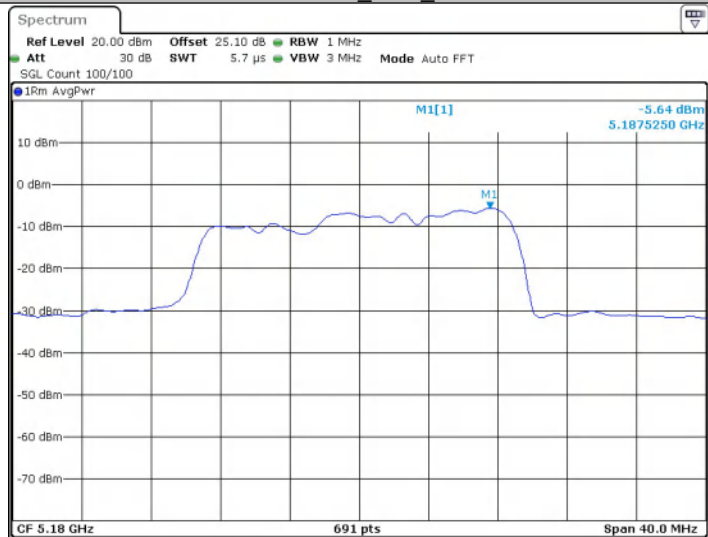


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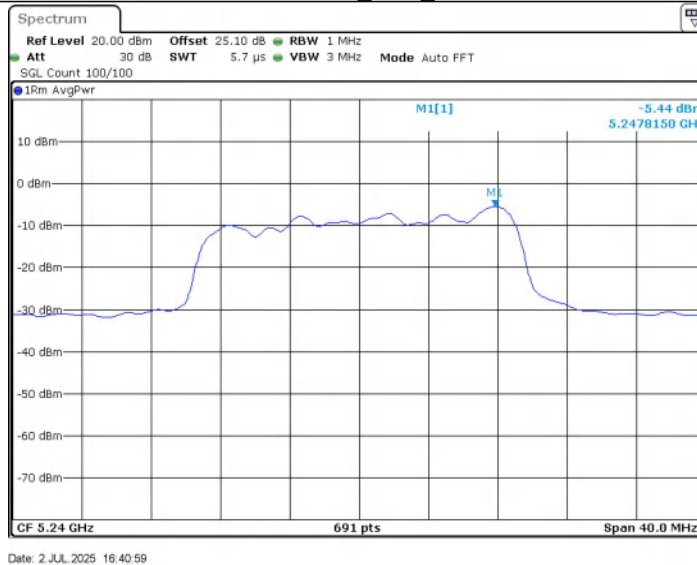


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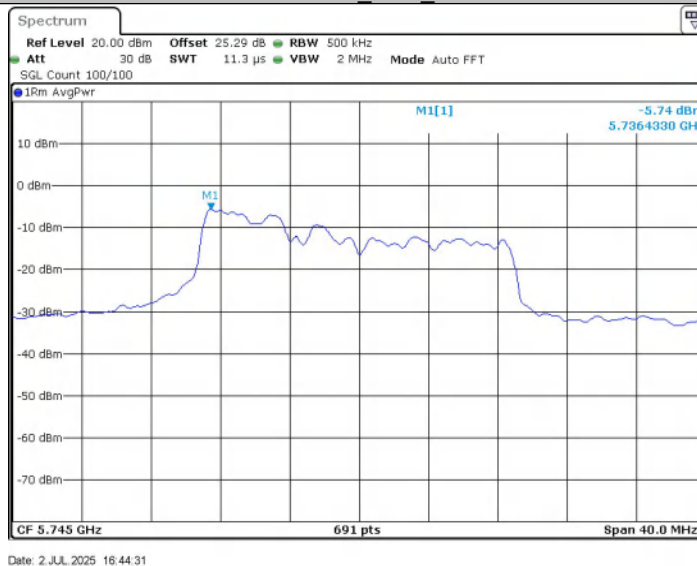
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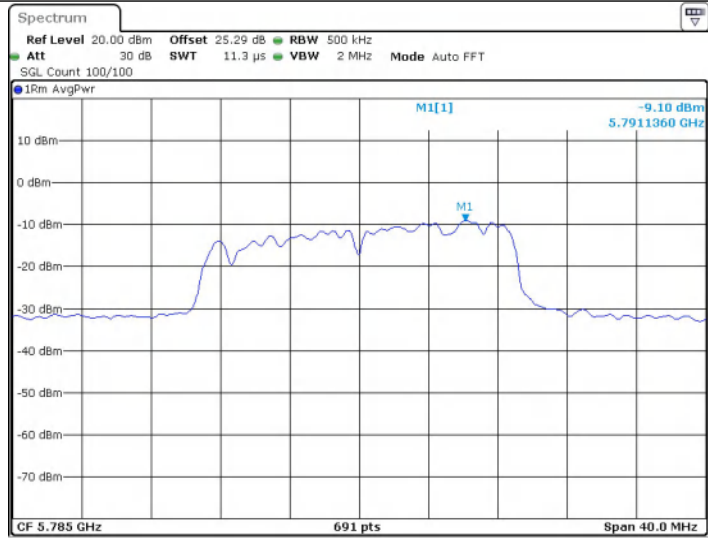
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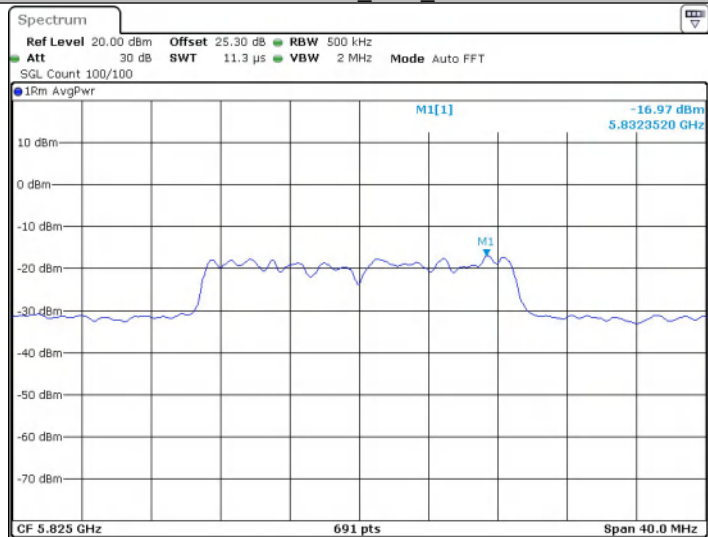


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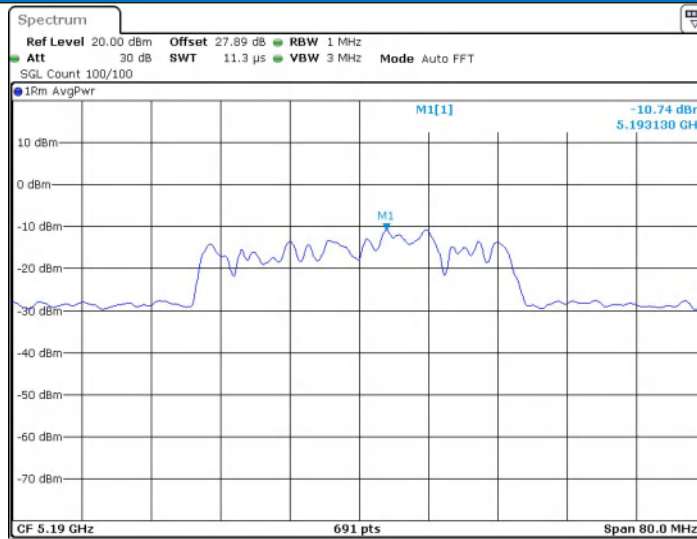
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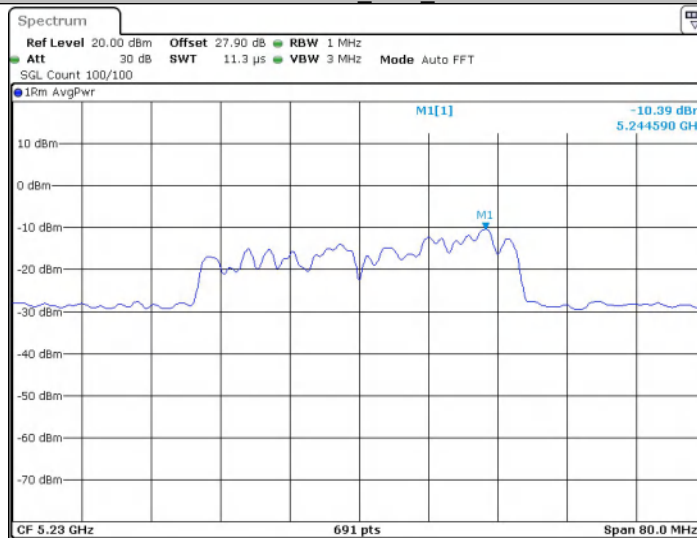
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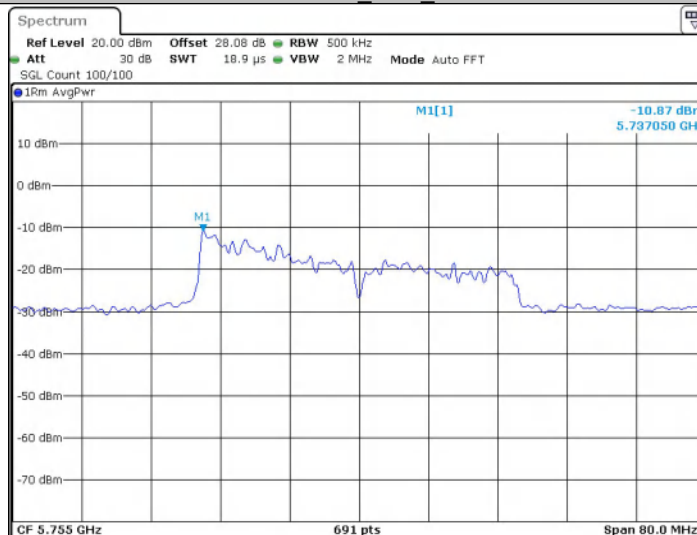
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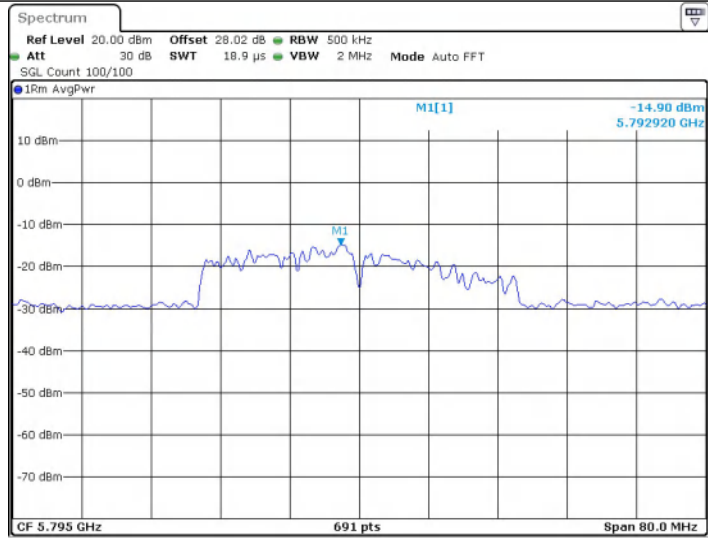
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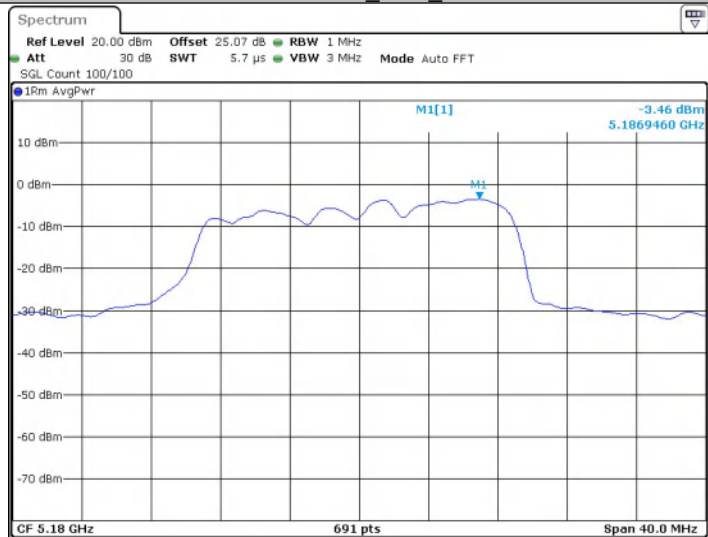
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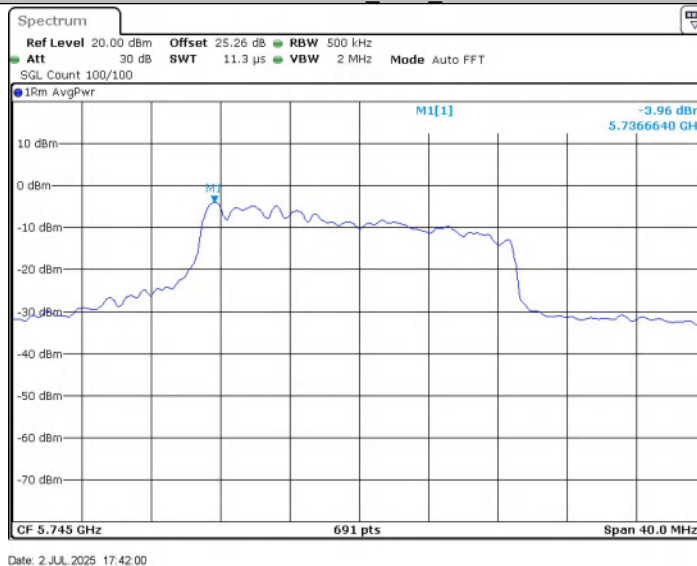
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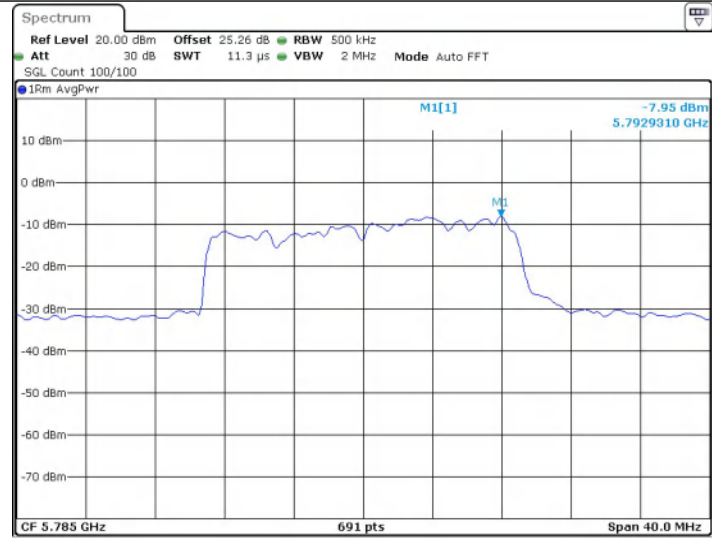
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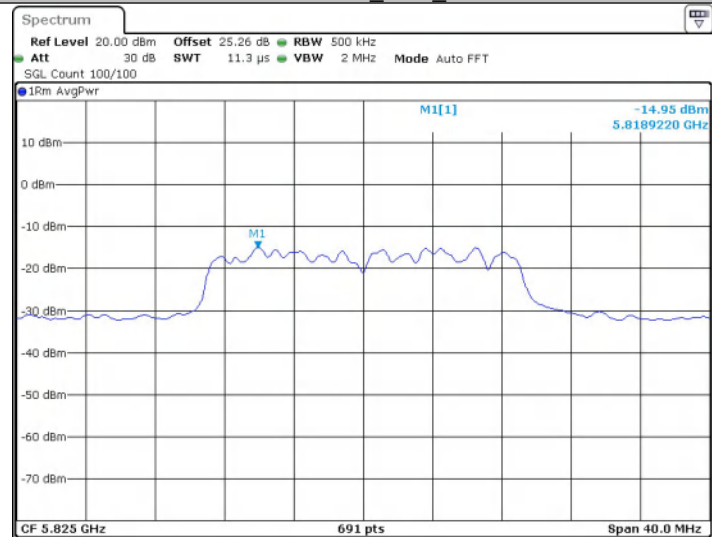


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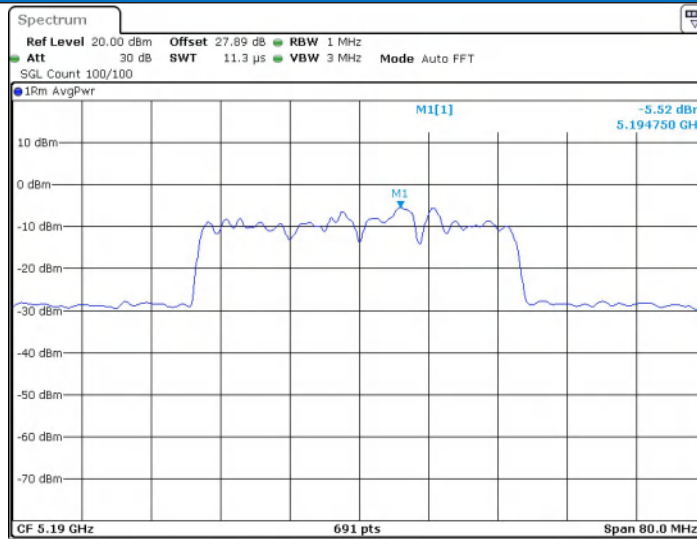
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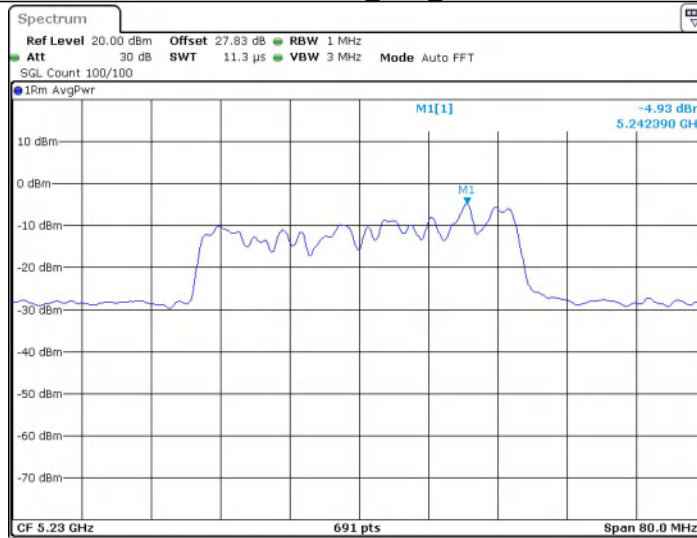
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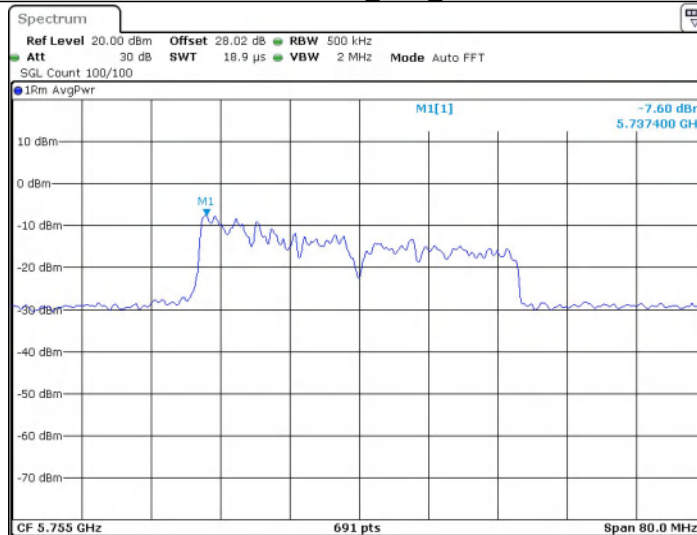
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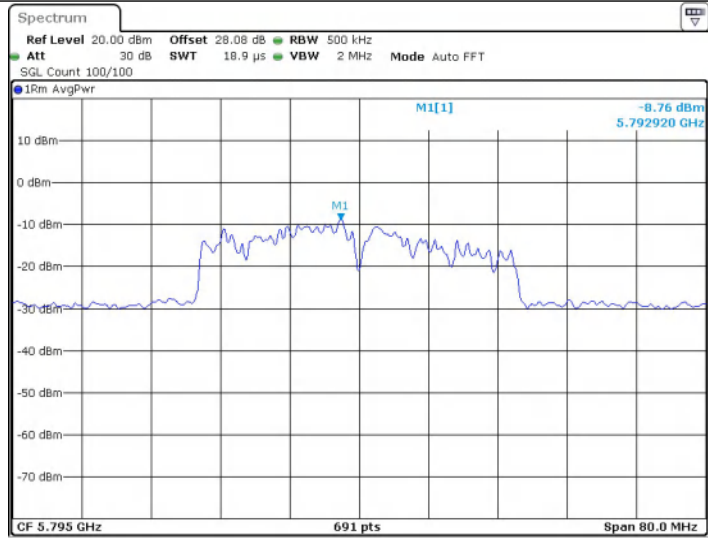
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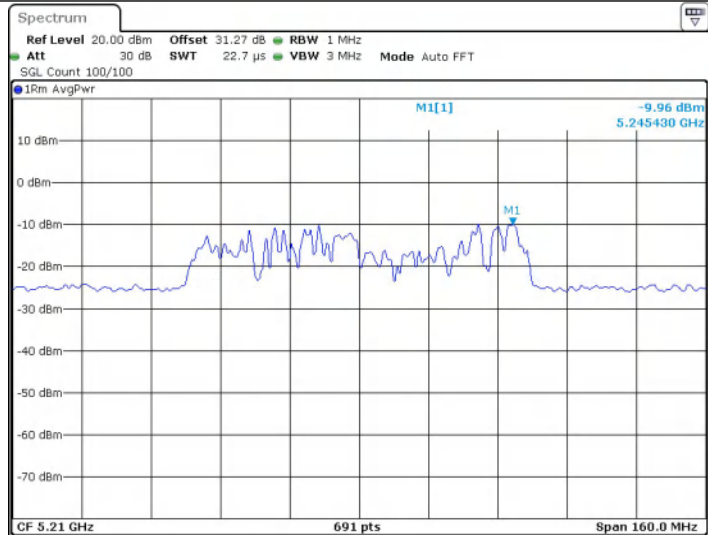
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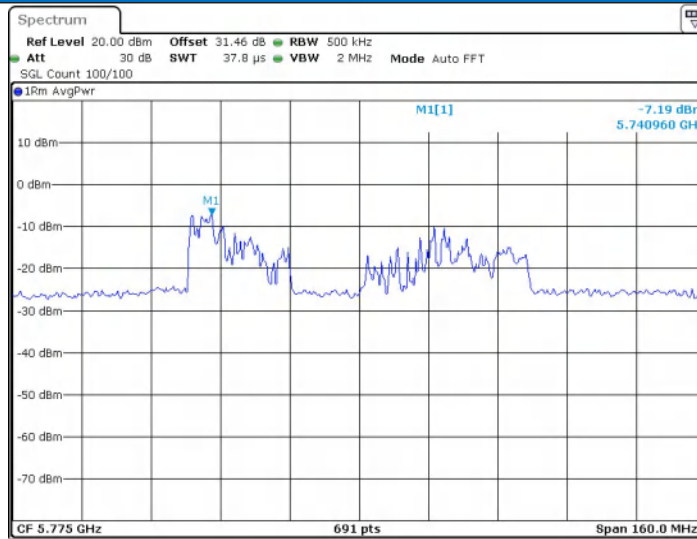
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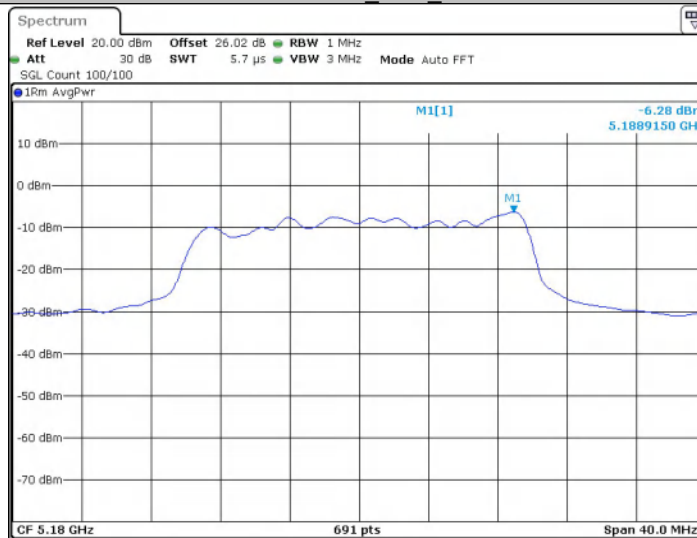
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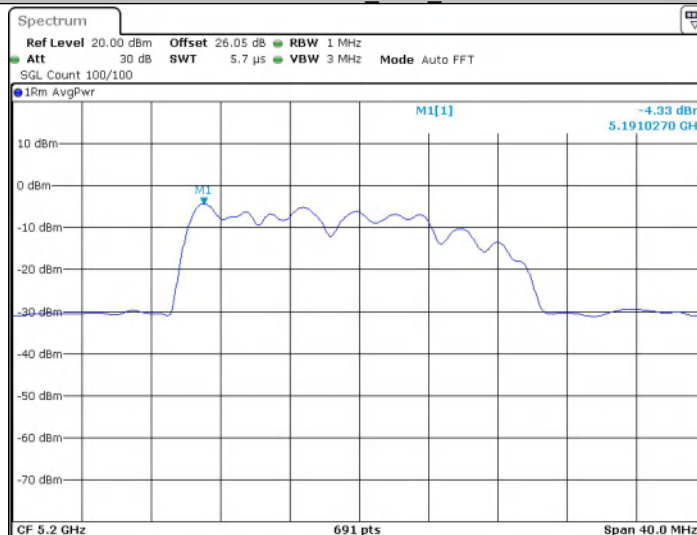
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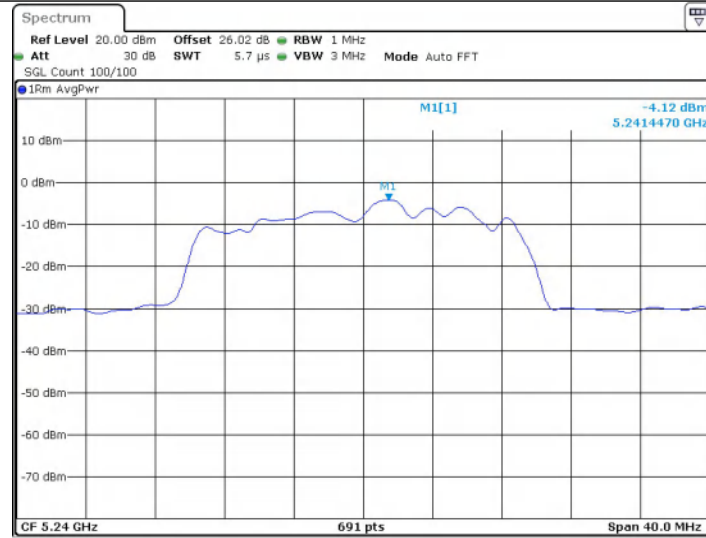
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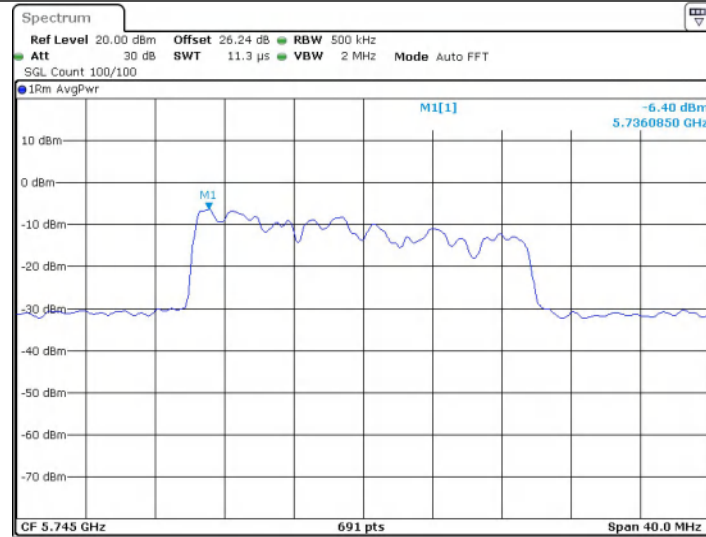


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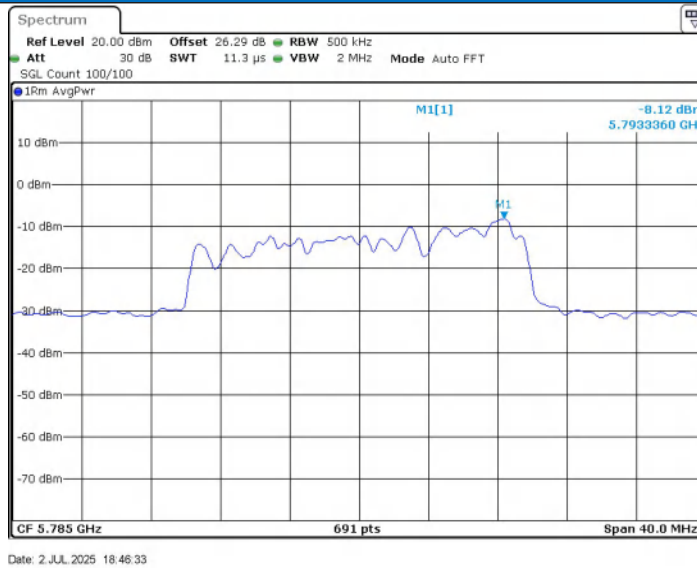
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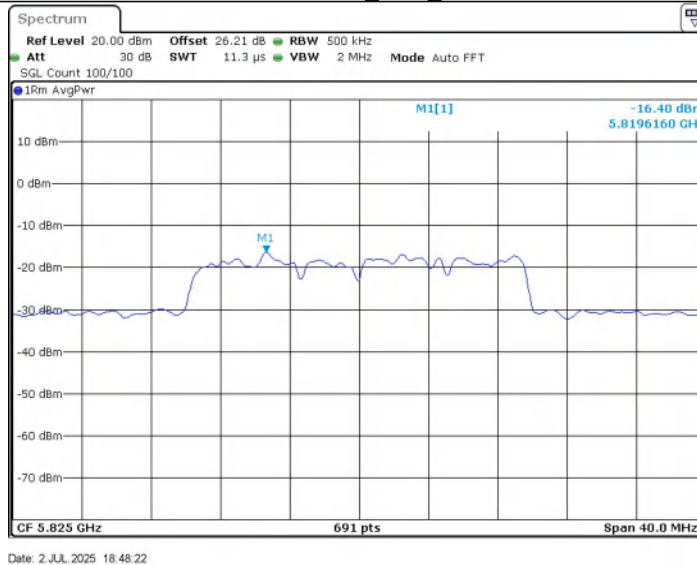
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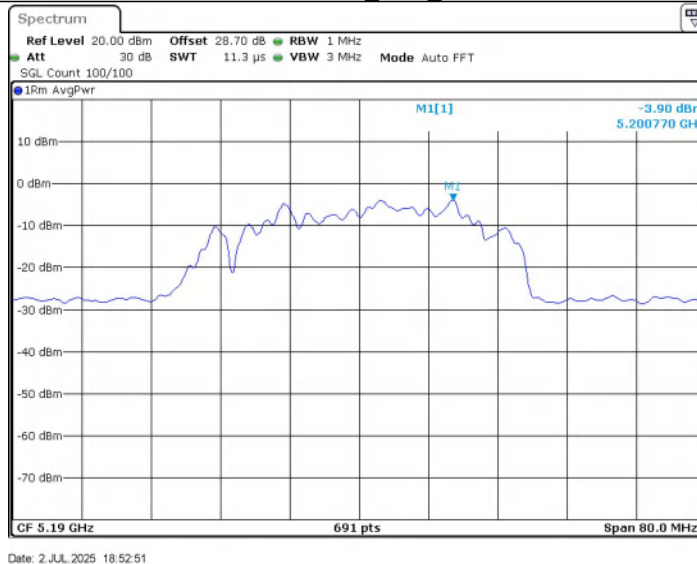
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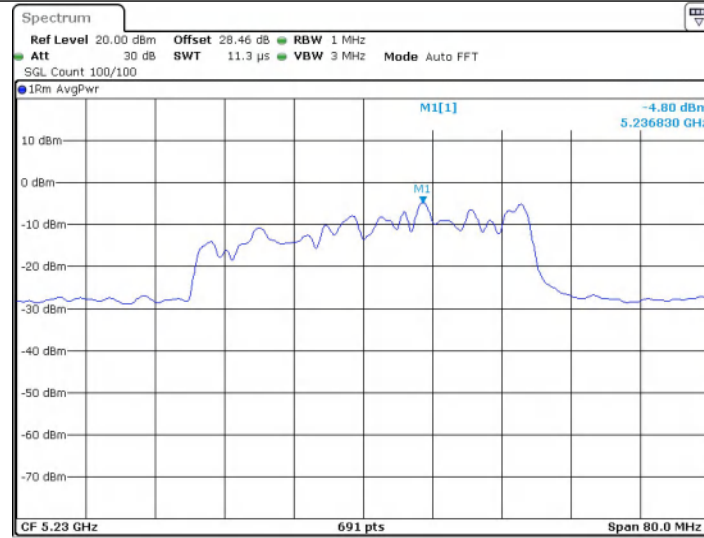
11AX20SISO_Ant1_5825



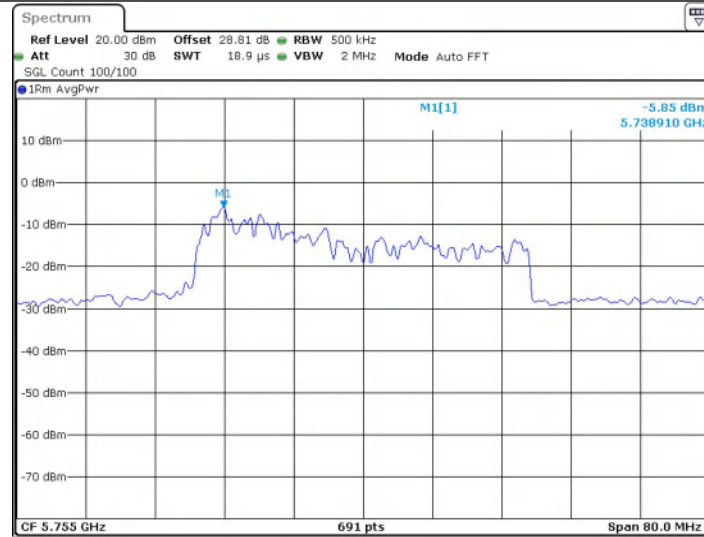
11AX40SISO_Ant1_5190



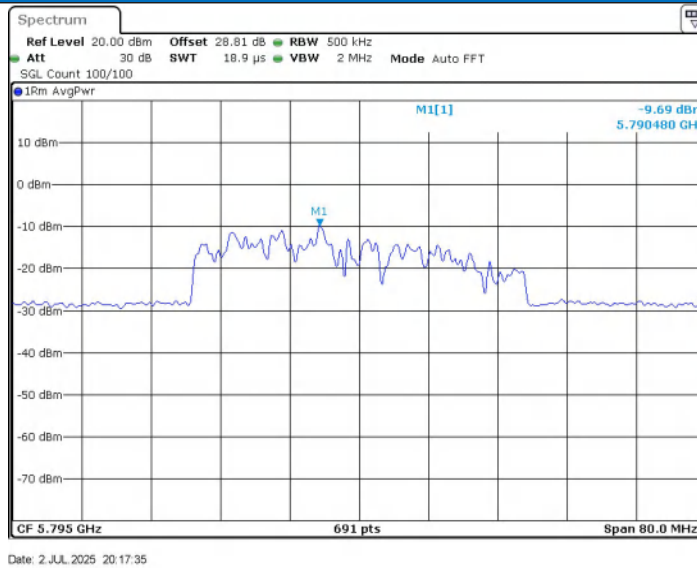
11AX40SISO_Ant1_5230



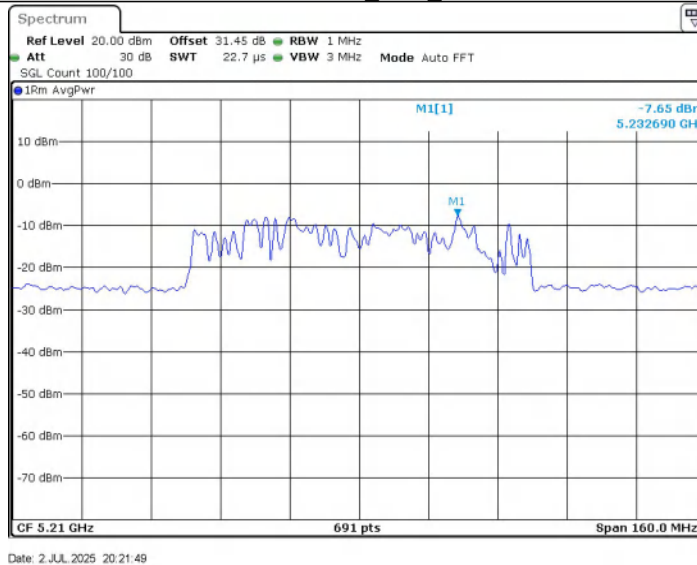
11AX40SISO_Ant1_5755



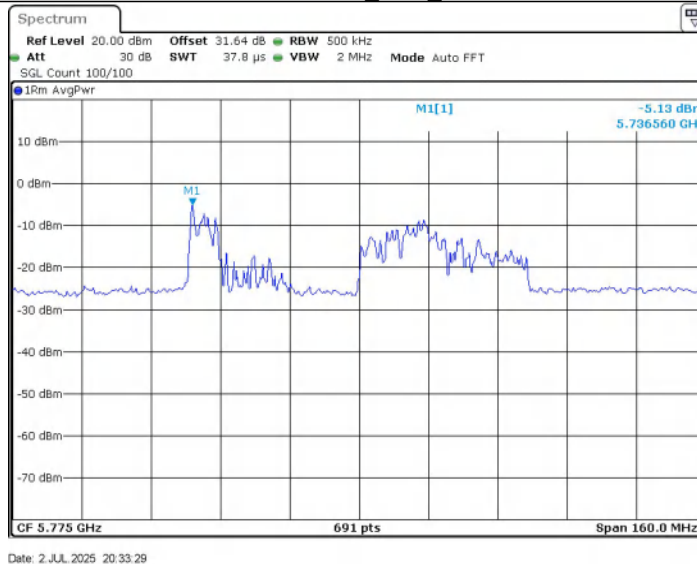
11AX40SISO_Ant1_5795



11AX80SISO_Ant1_5210



11AX80SISO_Ant1_5775



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

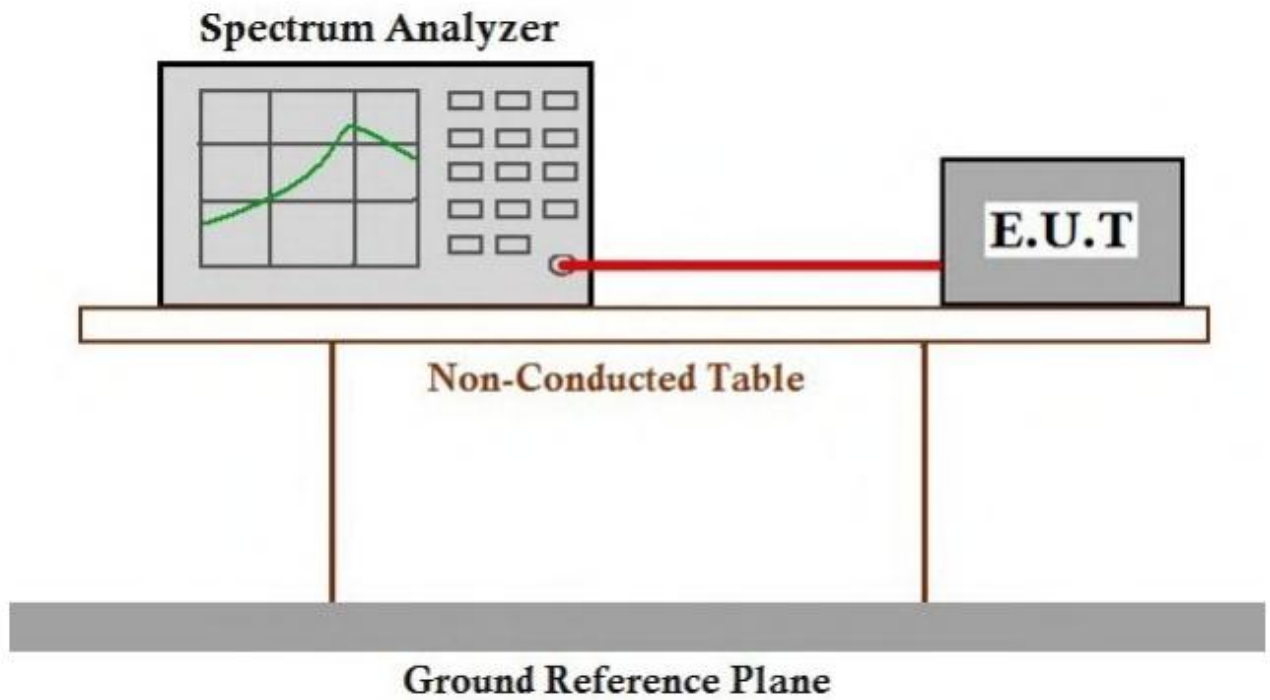
Test Procedure:

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:

7.1.1 Test Result B1

TestMode	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Low	5180	-31.44	≤-27	PASS
	High	5240	-32.64	≤-27	PASS
11N20SISO	Low	5180	-31.27	≤-27	PASS
	High	5240	-32.6	≤-27	PASS
11N40SISO	Low	5190	-31.37	≤-27	PASS
	High	5230	-32.92	≤-27	PASS
11AC20SISO	Low	5180	-30.97	≤-27	PASS
	High	5240	-32.68	≤-27	PASS
11AC40SISO	Low	5190	-30.96	≤-27	PASS
	High	5230	-32.71	≤-27	PASS
11AC80SISO	Low	5210	-31.19	≤-27	PASS
	High	5210	-32.66	≤-27	PASS
11AX20SISO	Low	5180	-31.11	≤-27	PASS
	High	5240	-33.21	≤-27	PASS
11AX40SISO	Low	5190	-31.33	≤-27	PASS
	High	5230	-32.5	≤-27	PASS
11AX80SISO	Low	5210	-31.06	≤-27	PASS
	High	5210	-32.67	≤-27	PASS

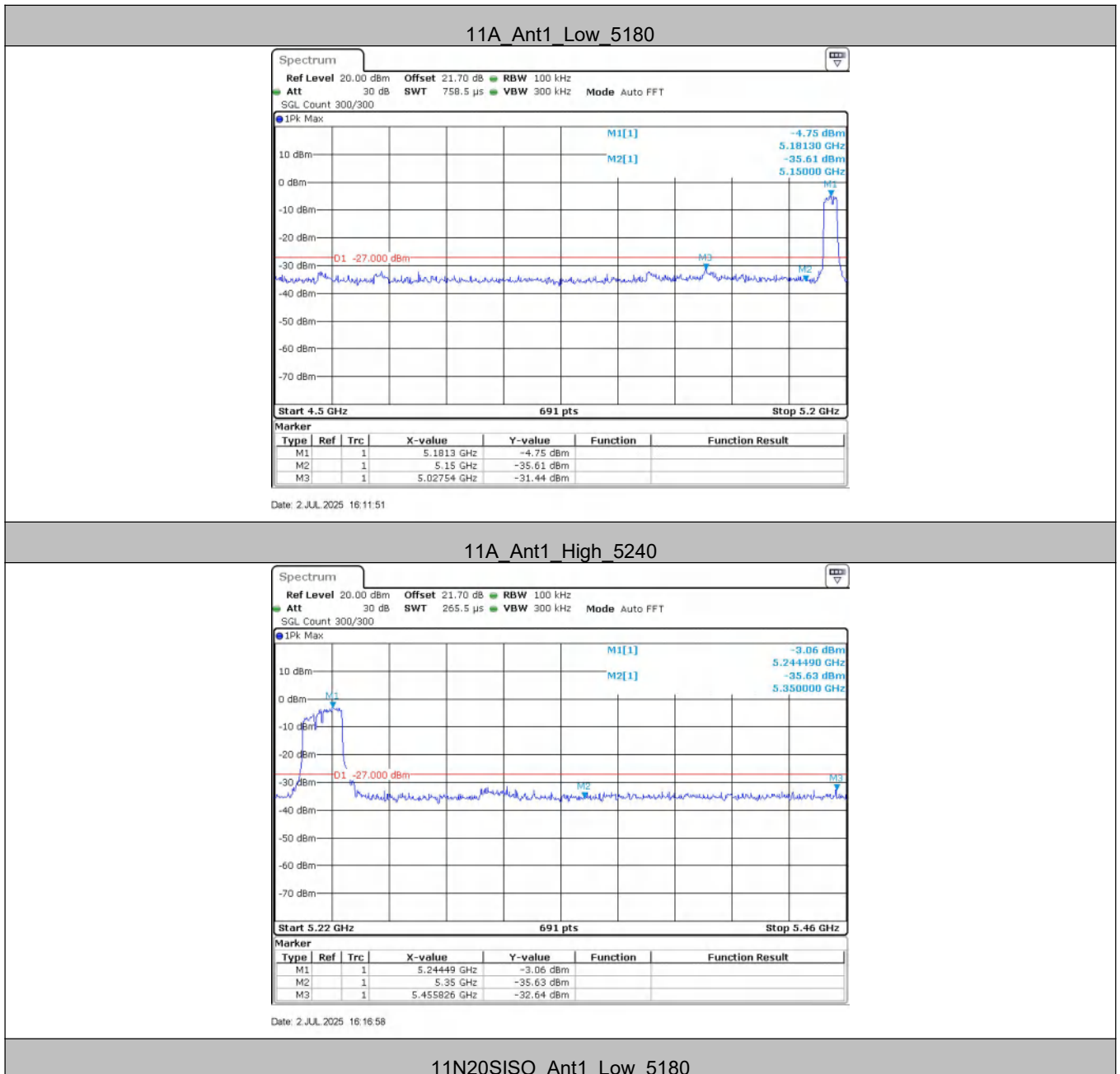
7.1.2 Test Result B4

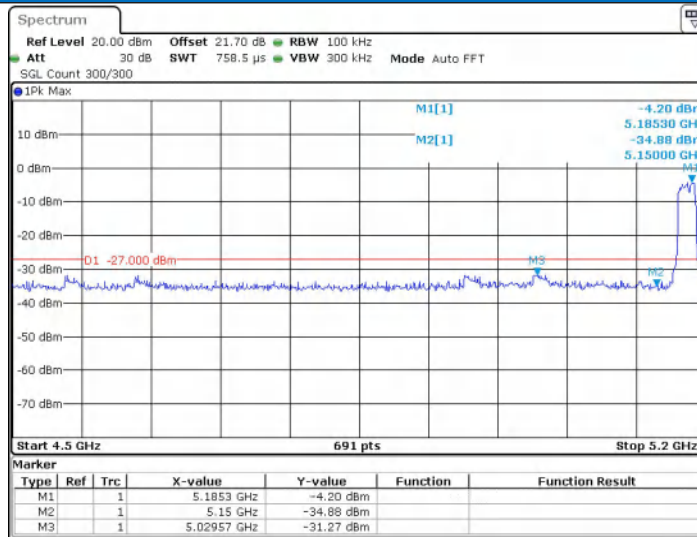
TestMode	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Low	5745	5650~5700	-34.85	≤-26.88	PASS
			5700~5720	-32.12	≤10.05	PASS
			5720~5725	-34.45	≤15.98	PASS
			5760~5650	-33.72	≤-27	PASS
	High	5825	5850~5855	-31.95	≤15.65	PASS
			5855~5875	-32.06	≤10.02	PASS
			5875~5925	-32.84	≤-26.87	PASS
			5925~5935	-32.16	≤-27	PASS
11N20SISO	Low	5745	5650~5700	-33.24	≤-26.26	PASS
			5700~5720	-32.38	≤11.40	PASS
			5720~5725	-33.44	≤16.36	PASS

	High	5825	5760~5650	-33.89	≤ -27	PASS
			5850~5855	-31.29	≤ 15.65	PASS
			5855~5875	-31.04	≤ 10.35	PASS
			5875~5925	-32.97	≤ -26.87	PASS
			5925~5935	-31.89	≤ -27	PASS
11N40SISO	Low	5755	5650~5700	-33.46	≤ -26.94	PASS
			5700~5720	-32.53	≤ 10.27	PASS
			5720~5725	-32.6	≤ 16.34	PASS
			5780~5650	-33.43	≤ -27	PASS
	High	5795	5850~5855	-31.59	≤ 17.48	PASS
			5855~5875	-31.65	≤ 10.14	PASS
			5875~5925	-32.41	≤ -26.79	PASS
			5925~5935	-31.53	≤ -27	PASS
11AC20SISO	Low	5745	5650~5700	-34.09	≤ -26.14	PASS
			5700~5720	-32.19	≤ 10.56	PASS
			5720~5725	-31.24	≤ 15.98	PASS
			5760~5650	-32.52	≤ -27	PASS
	High	5825	5850~5855	-32.92	≤ 16.54	PASS
			5855~5875	-32.79	≤ 10.18	PASS
			5875~5925	-32.04	≤ -26.29	PASS
			5925~5935	-31.32	≤ -27	PASS
11AC40SISO	Low	5755	5650~5700	-34.01	≤ -26.79	PASS
			5700~5720	-32.5	≤ 10.16	PASS
			5720~5725	-27.45	≤ 19.91	PASS
			5780~5650	-32.86	≤ -27	PASS
	High	5795	5850~5855	-31.51	≤ 16.94	PASS
			5855~5875	-31.09	≤ 10.41	PASS
			5875~5925	-32.9	≤ -26.79	PASS
			5925~5935	-31.8	≤ -27	PASS
11AC80SISO	Low	5775	5650~5700	-34.17	≤ -26.38	PASS
			5700~5720	-30.41	≤ 10.39	PASS
			5720~5725	-30.99	≤ 16.18	PASS
			5800~5650	-33.34	≤ -27	PASS
	High	5775	5850~5855	-33.42	≤ 15.98	PASS
			5855~5875	-31.37	≤ 10.39	PASS
			5875~5925	-32.65	≤ -26.86	PASS
			5925~5935	-31.43	≤ -27	PASS

11AX20SIS O	Low	5745	5650~5700	-33.55	≤ -26.88	PASS
			5700~5720	-33.47	≤ 10.14	PASS
			5720~5725	-32.62	≤ 16.36	PASS
			5760~5650	-33.2	≤ -27	PASS
	High	5825	5850~5855	-33.02	≤ 15.65	PASS
			5855~5875	-32.07	≤ 10.02	PASS
			5875~5925	-32.4	≤ -26.58	PASS
			5925~5935	-31.26	≤ -27	PASS
11AX40SIS O	Low	5755	5650~5700	-34.6	≤ -26.79	PASS
			5700~5720	-31.95	≤ 10.27	PASS
			5720~5725	-30.15	≤ 17.68	PASS
			5780~5650	-32.99	≤ -27	PASS
	High	5795	5850~5855	-32.78	≤ 16.39	PASS
			5855~5875	-30.81	≤ 10.54	PASS
			5875~5925	-32.53	≤ -26.97	PASS
			5925~5935	-32.11	≤ -27	PASS
11AX80SIS O	Low	5775	5650~5700	-32.61	≤ -26.71	PASS
			5700~5720	-29.71	≤ 10.45	PASS
			5720~5725	-26.29	≤ 20.79	PASS
			5800~5650	-32.06	≤ -27	PASS
	High	5775	5850~5855	-32.7	≤ 15.98	PASS
			5855~5875	-32.34	≤ 10.24	PASS
			5875~5925	-33.18	≤ -26.86	PASS
			5925~5935	-31.99	≤ -27	PASS

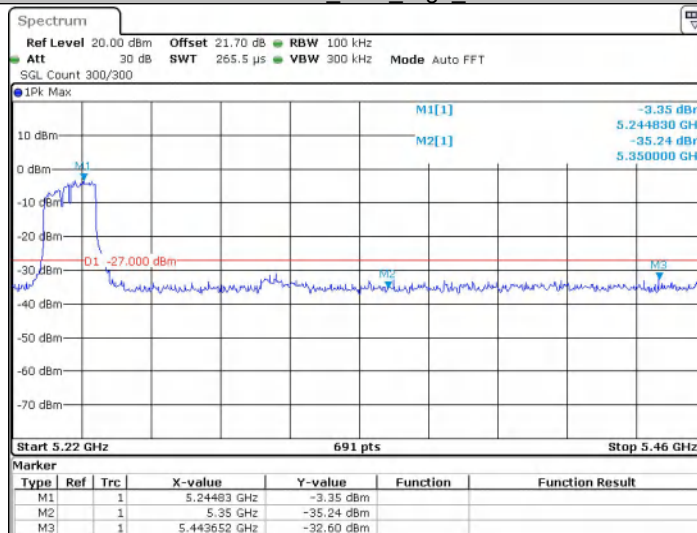
7.1.3 Test Graphs B1





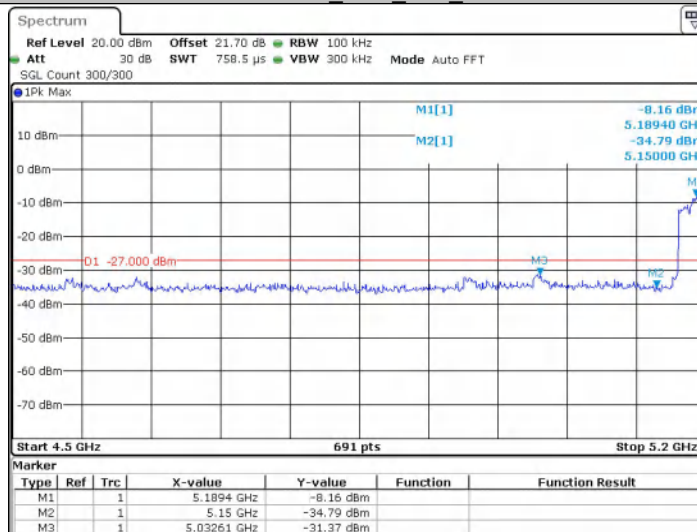
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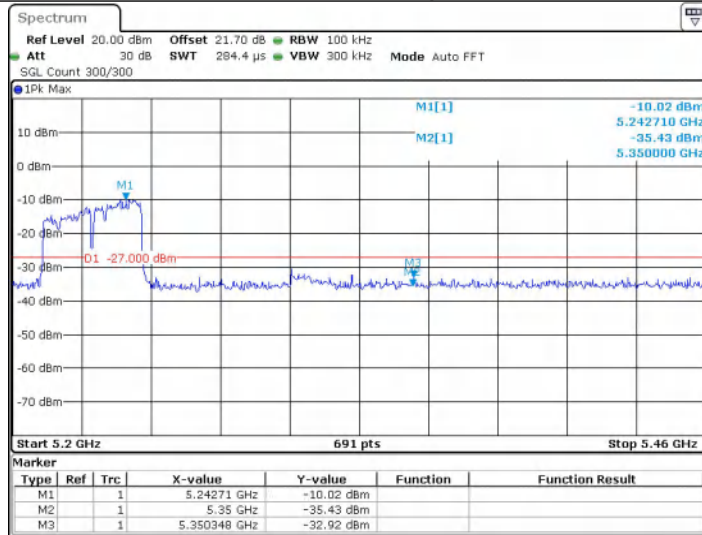
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11N40SISO_Ant1_Low_5190



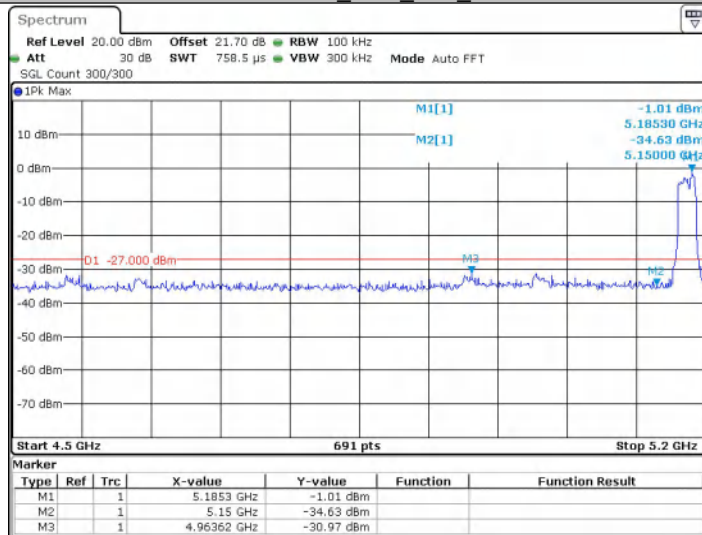
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11N40SISO_Ant1_High_5230



Date: 2 JUL 2025 17:17:56

11AC20SISO_Ant1_Low_5180



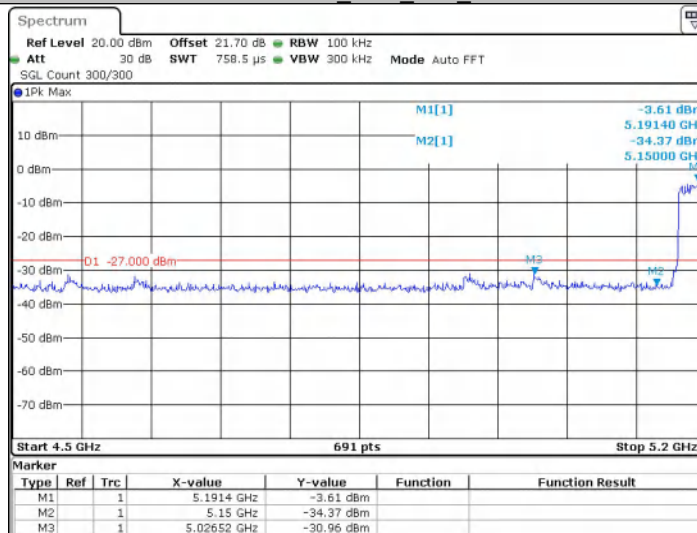
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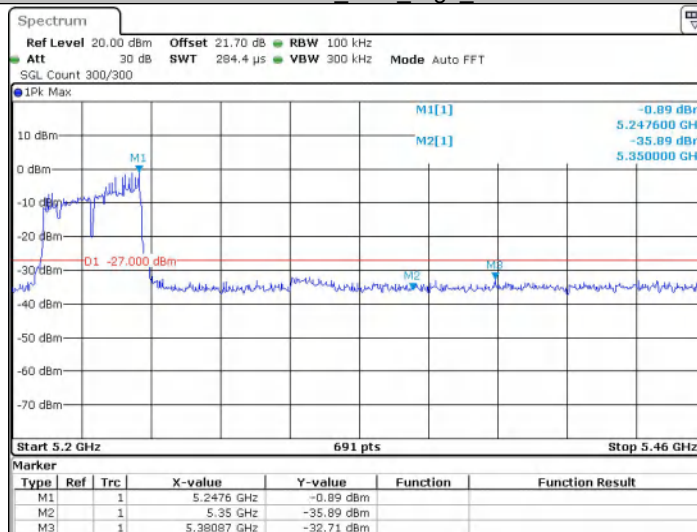
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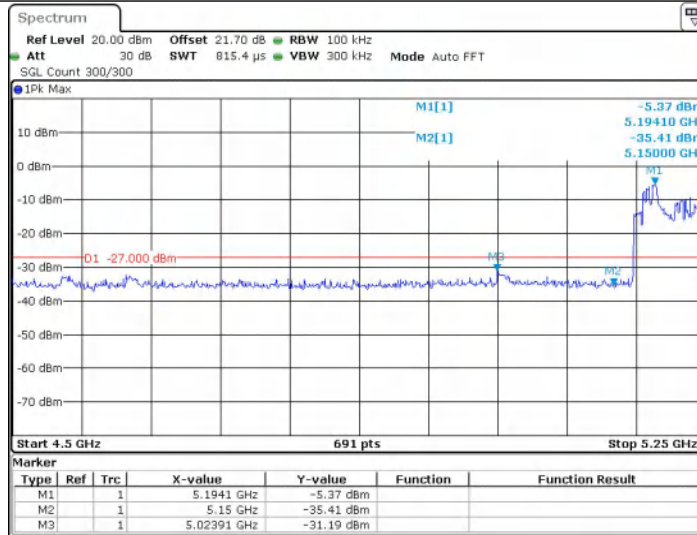
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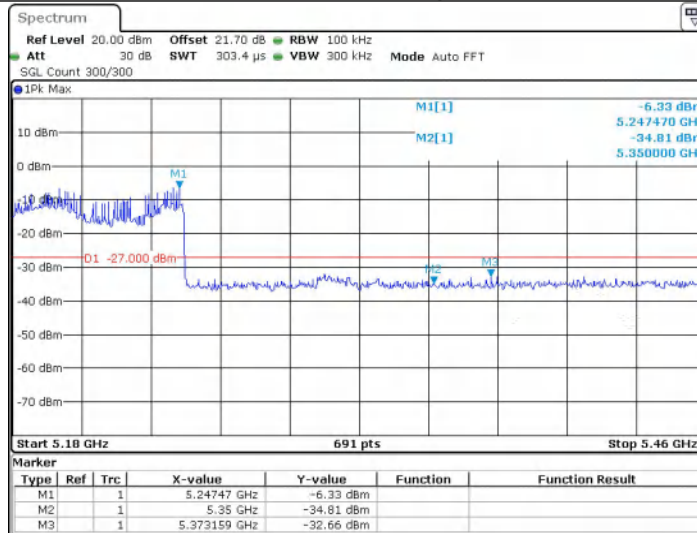
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11AC80SISO_Ant1_Low_5210



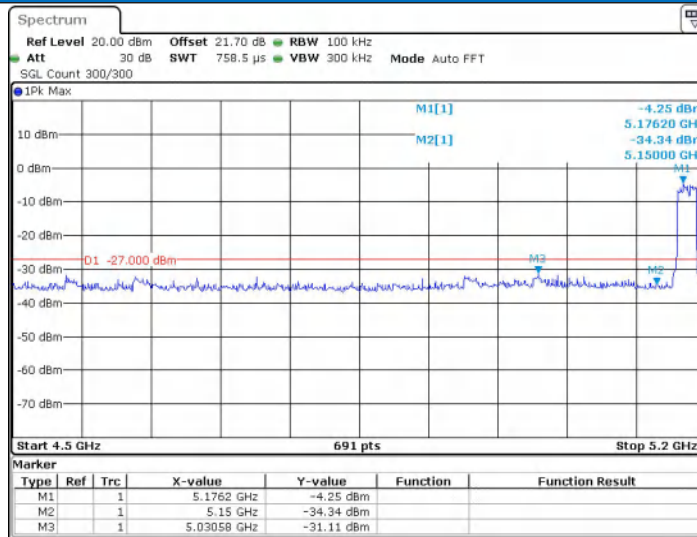
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11AC80SISO_Ant1_High_5210



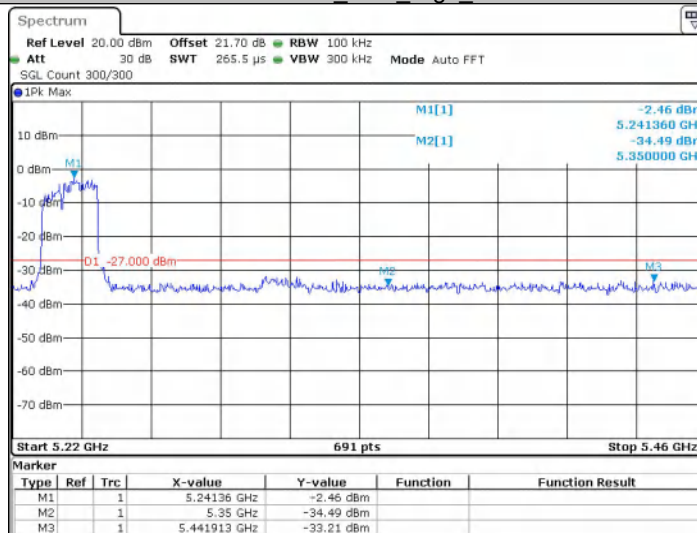
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11AX20SISO_Ant1_Low_5180



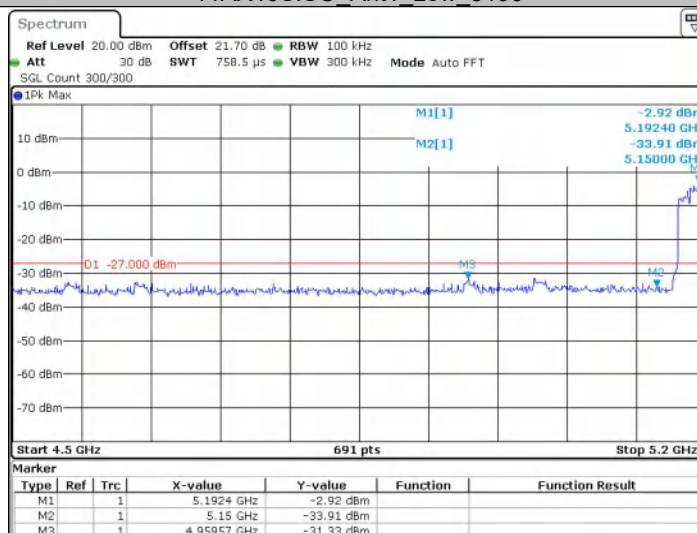
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11AX20SISO_Ant1_High_5240



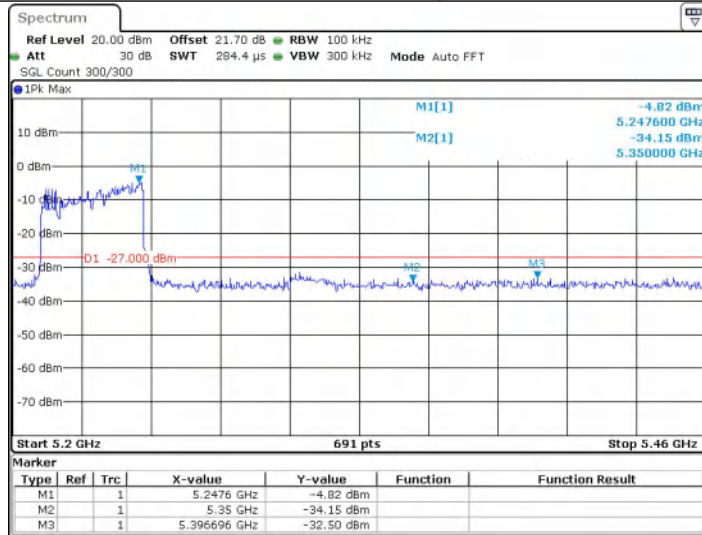
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11AX40SISO_Ant1_Low_5190



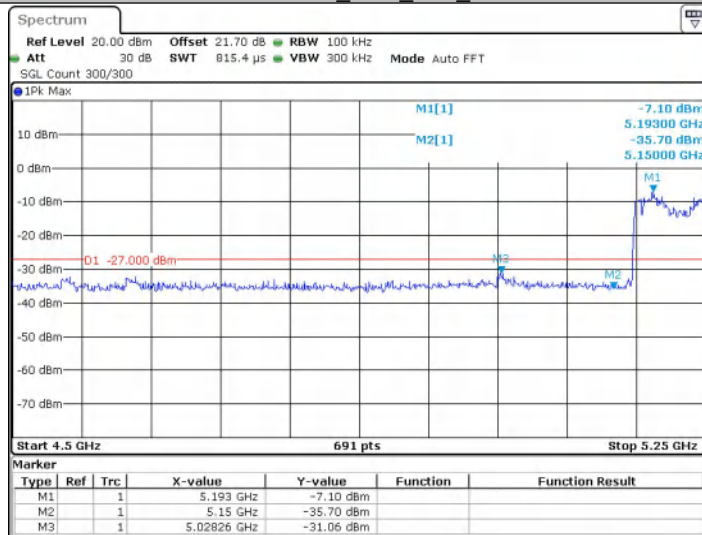
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11AX40SISO_Ant1_High_5230



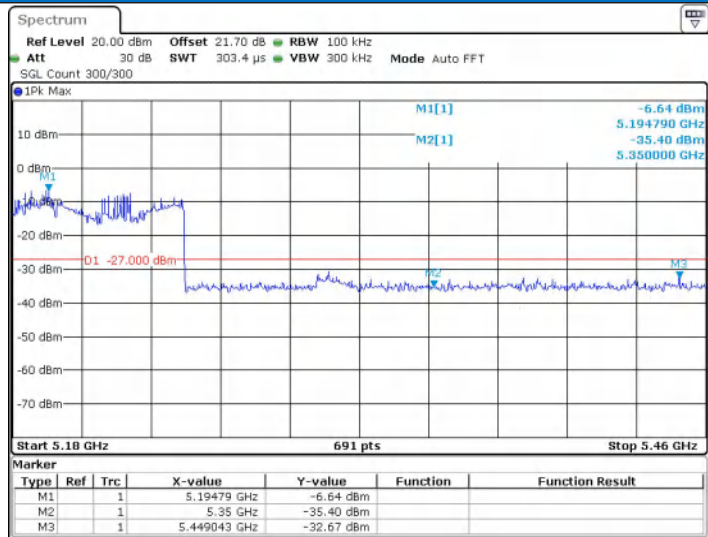
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11AX80SISO_Ant1_Low_5210



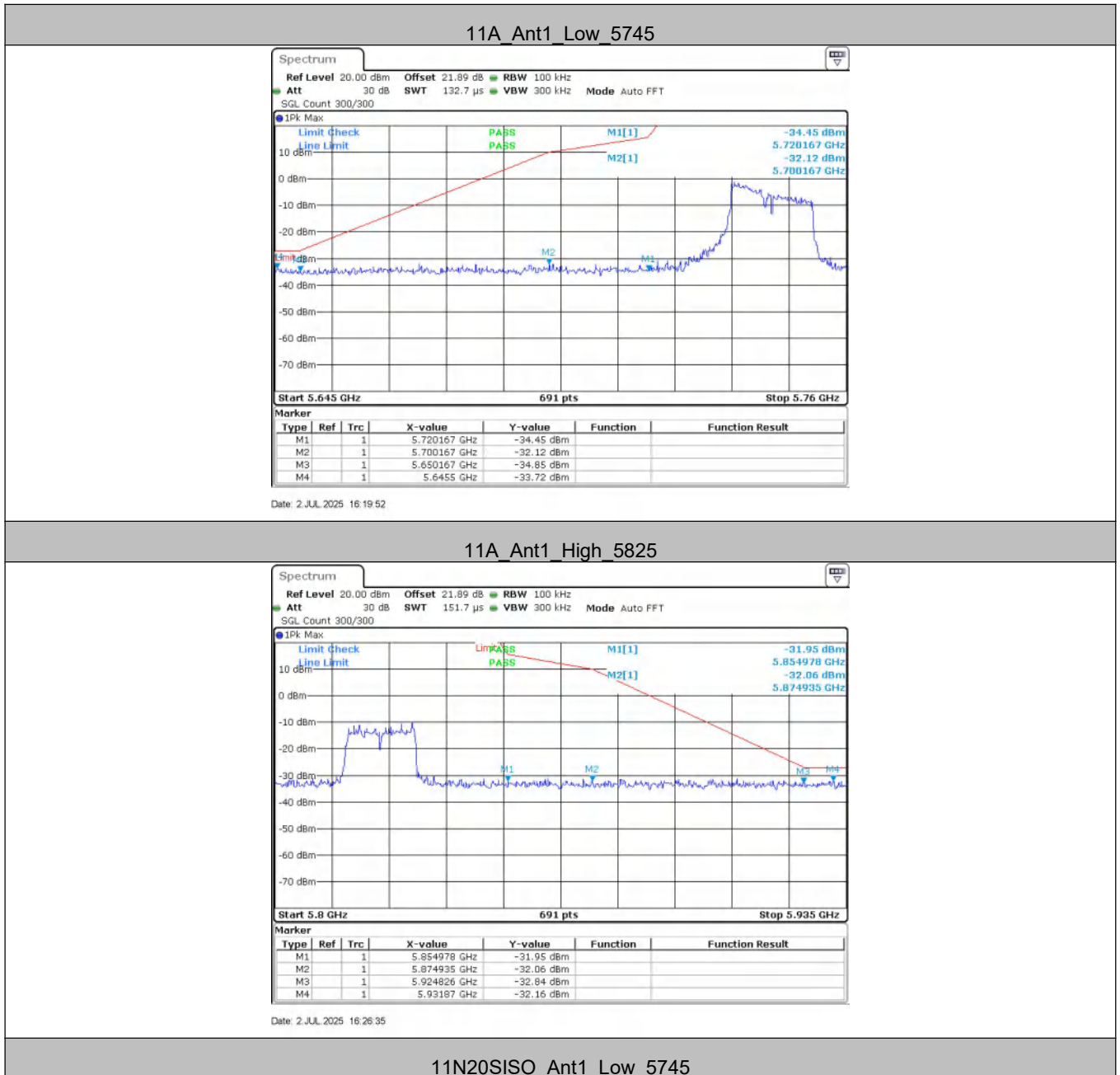
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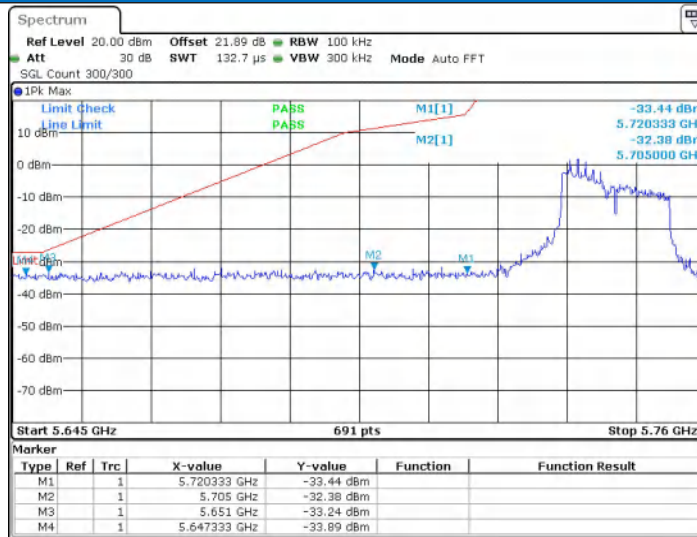
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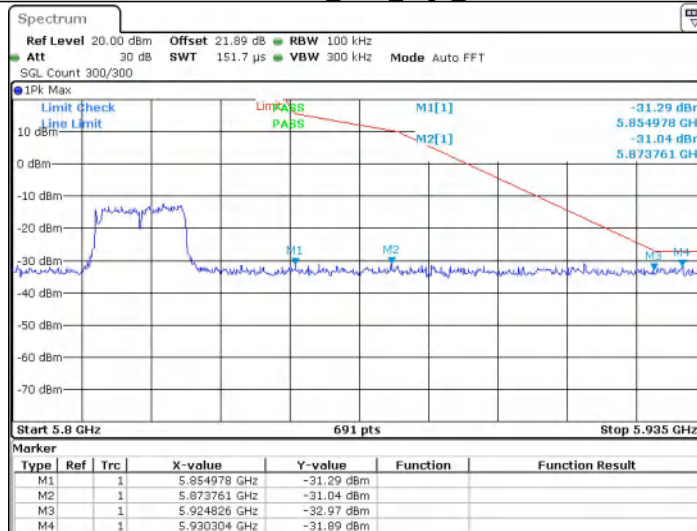
7.1.4 Test Graphs B4





Date: 2 JUL 2025 16:44:39

11N20SISO_Ant1_High_5825



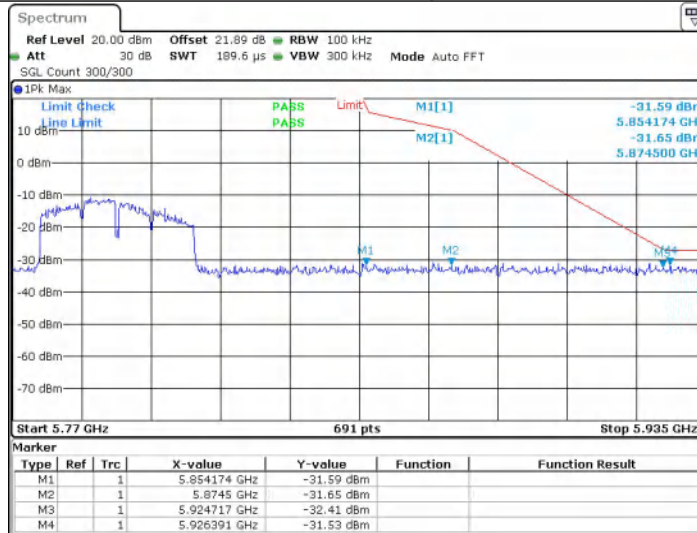
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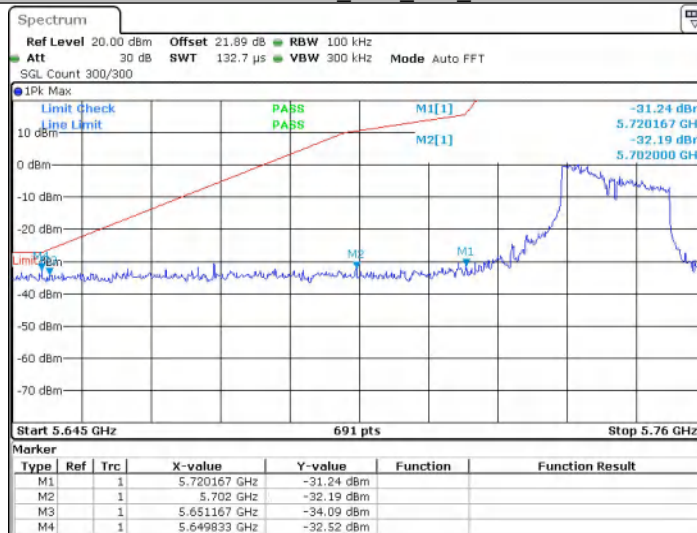
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11N40SISO_Ant1_High_5795



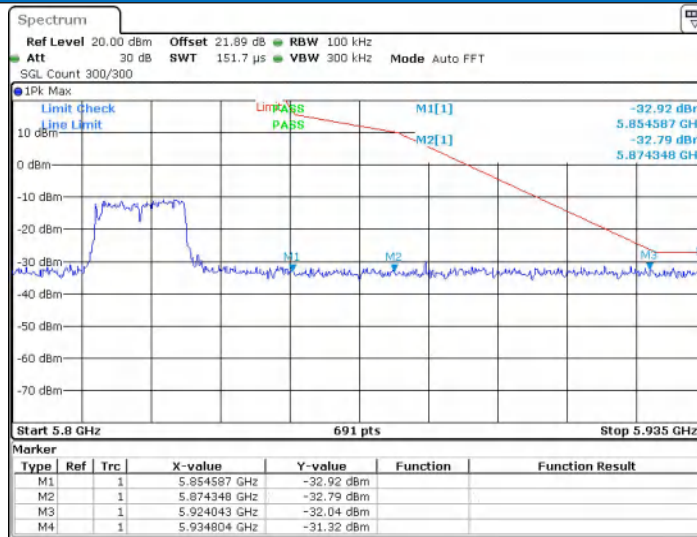
Date: 2 JUL 2025 17:25:32

11AC20SISO_Ant1_Low_5745



Date: 2 JUL 2025 17:42:08

11AC20SISO_Ant1_High_5825



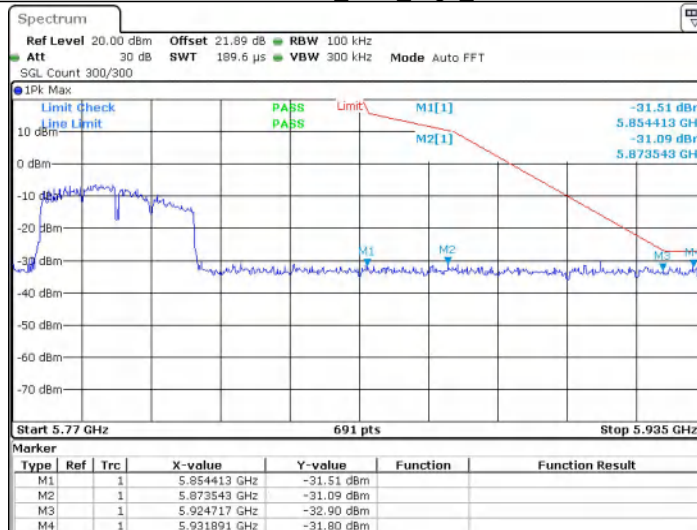
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11AC40SISO_Ant1_Low_5755



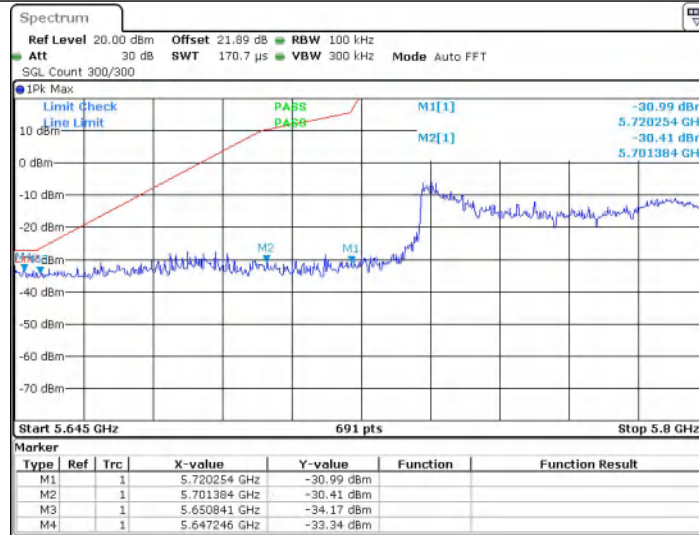
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11AC40SISO_Ant1_High_5795



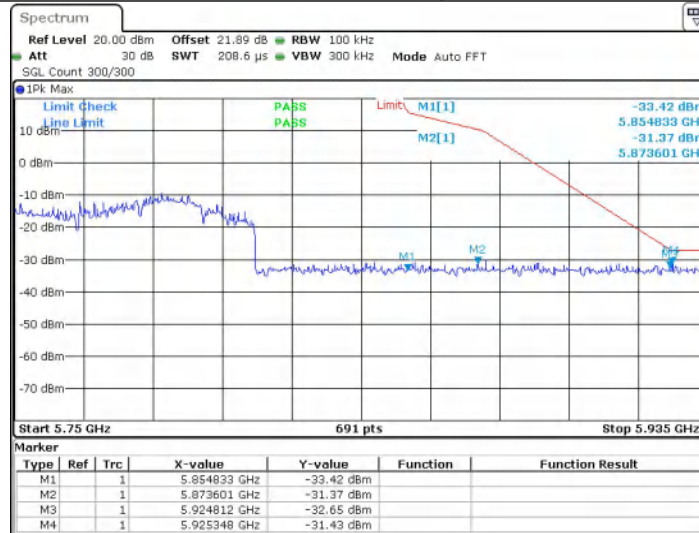
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11AC80SISO_Ant1_Low_5775



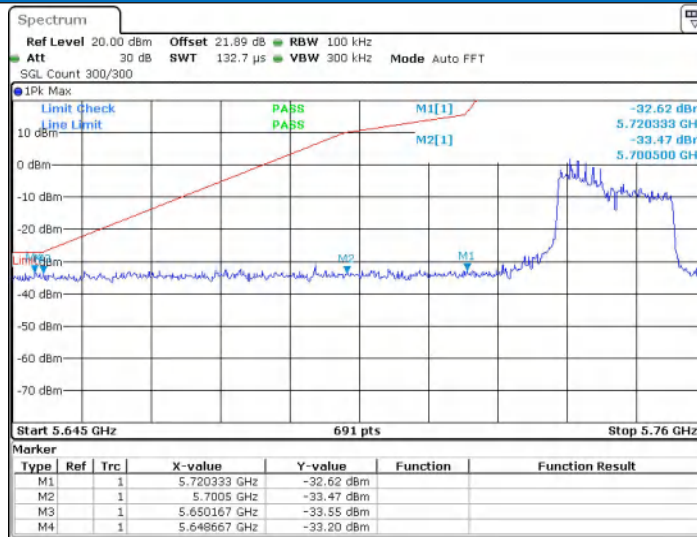
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11AC80SISO_Ant1_High_5775



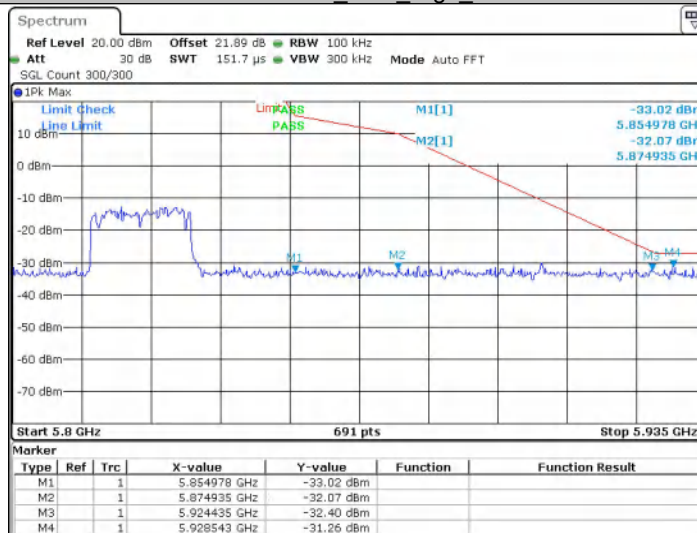
Date: 2 JUL 2025 18:27:25

11AX20SISO_Ant1_Low_5745



Date: 2 JUL 2025 18:44:28

11AX20SISO_Ant1_High_5825



Date: 2 JUL 2025 18:48:30

11AX40SISO_Ant1_Low_5755



Date: 2 JUL 2025 20:15:22