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Report Template Version: V05
Report Template Revision Date: 2018-07-06

Test Report

Report No.:	CQASZ20241202754E-04
Applicant:	KIWISAT LLC
Address of Applicant:	1111 PennsylvaniaAvenue, NW Washington, District of Columbia 20004, United States

Equipment Under Test (EUT):

Product:	AAFiber/KIWISAT IPTV box Android IPTV Device AAFiber/KIWISAT IPTV Device KIWISAT, AAFiber, AAKIWI compatible IPTV device
Model No.:	AAGS-P1, AAGS-P1S
Teat Model No.:	AAGS-P1
Brand Name:	AAFiber
FCC ID:	2AR5S-AAGS-P1
Standards:	47 CFR Part 15, Subpart E KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Date of Receipt:	2024-12-31
Date of Test:	2024-12-31 to 2025-02-20
Date of Issue:	2025-3-4
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)

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD APPROVED

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20241202754E-04	Rev.01	Initial report	2025-3-4

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

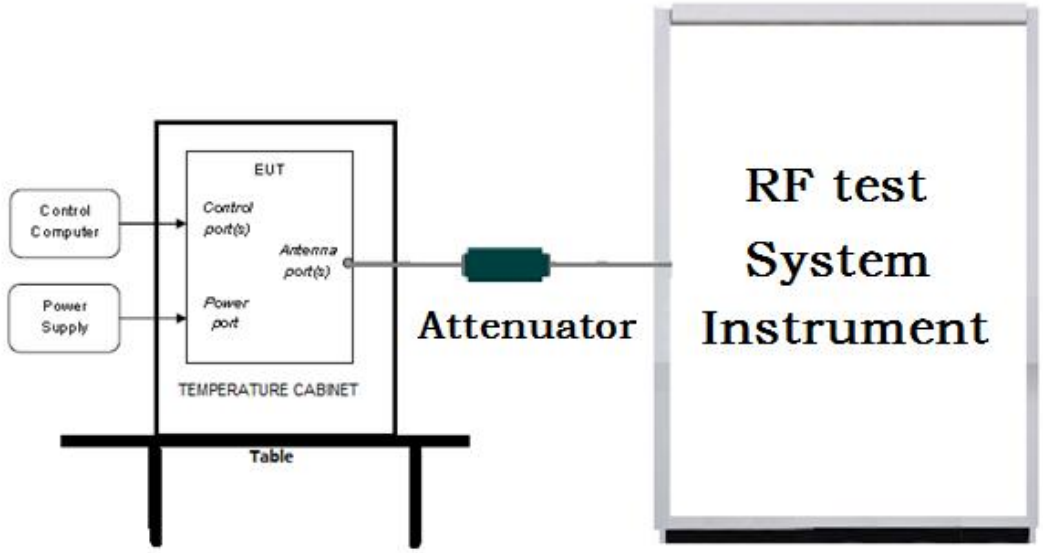
Remark:
The tested sample(s) and the sample information are provided by the client.
Tx: In this whole report Tx (or tx) means Transmitter.
Rx: In this whole report Rx (or rx) means Receiver.
RF: In this whole report RF means Radiated Frequency.
CH: In this whole report CH means channel.
Volt: In this 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

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:

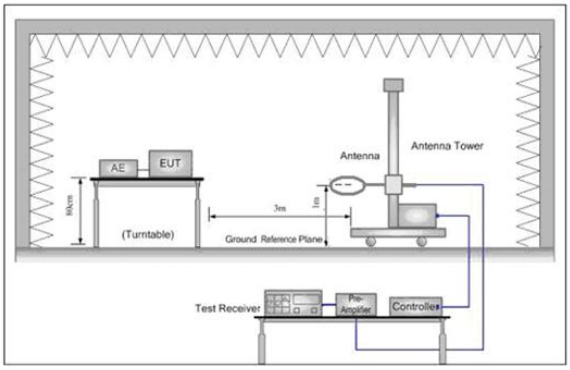


Figure 1. Below 30MHz

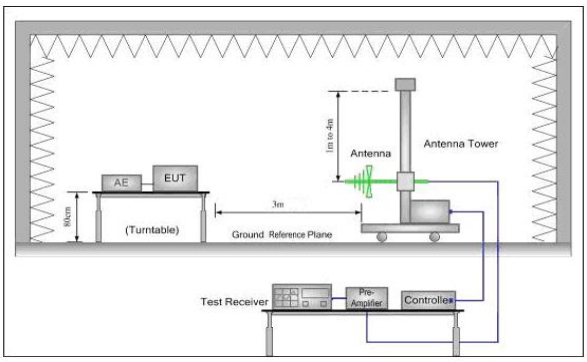


Figure 2. 30MHz to 1GHz

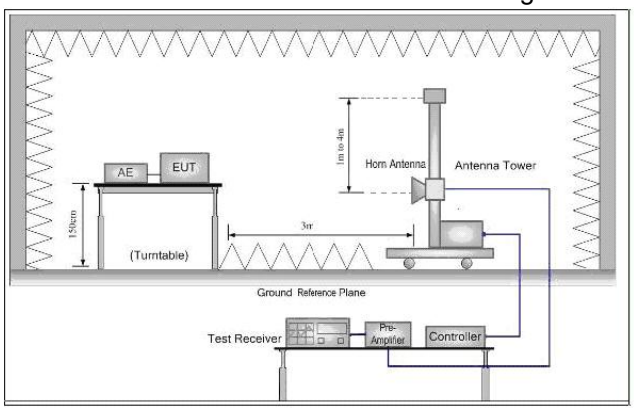
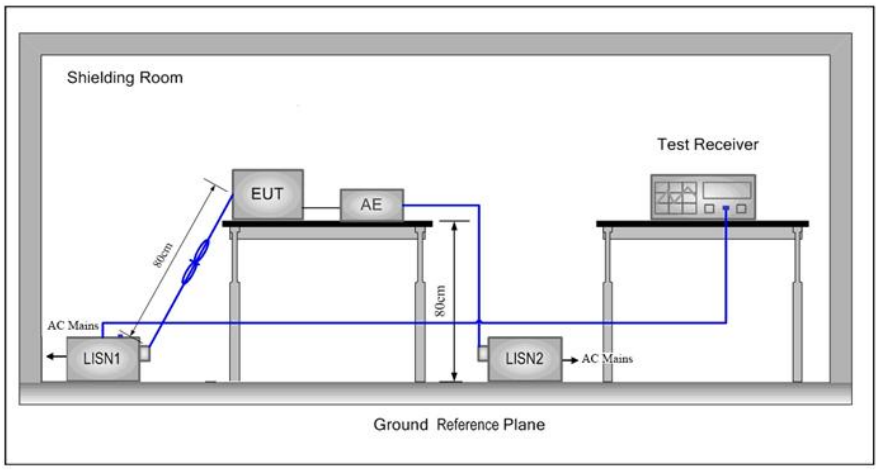


Figure 3. Above 1GHz

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	7.6
TL/VL	-30	6.84
TH/VL	50	6.84
TL/VH	-30	8.36
TH/VH	50	8.36

Remark:

1)The EUT just work in such extreme temperature of -30 °C to 50 °C and the extreme voltage of 6.84V to 8.36V, so here the EUT is tested in the temperature of -30 °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;

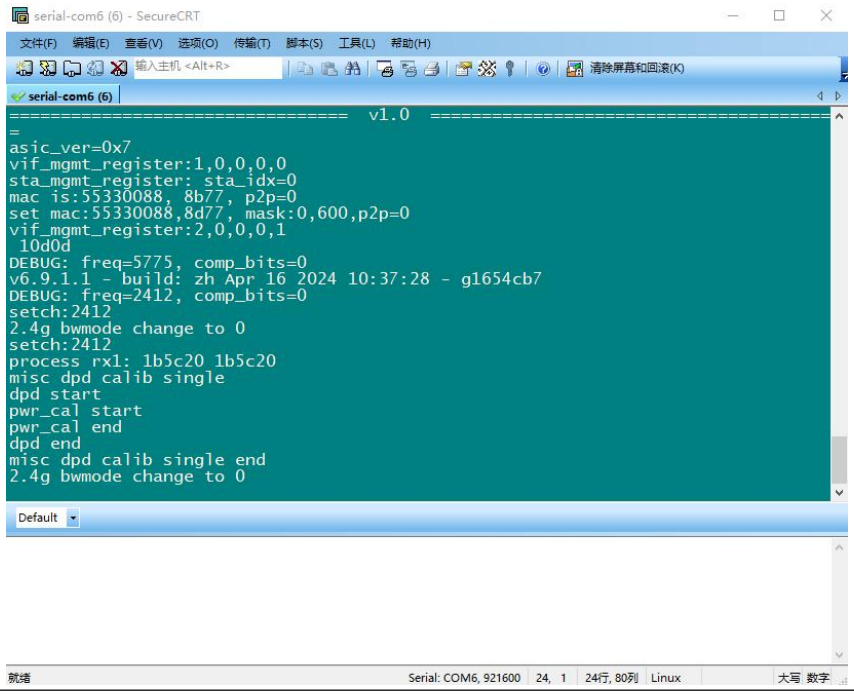
VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

4.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11a/n/ac/ax(20M)	5150MHz ~5250 MHz	Channel 36	Channel 44	Channel 48
		5180MHz	5220MHz	5240MHz
802.11n/ac/ax(40M)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
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
802.11a/n/ac/ax(20M)	5470MHz ~5725 MHz	Channel 100	Channel 120	Channel 144
		5500MHz	5600MHz	5720MHz
802.11n/ac/ax(40M)	5470MHz ~5725 MHz	Channel 102	Channel 118	Channel 142
		5510MHz	5590MHz	5710MHz
802.11a/n/ac/ax(20M)	5725MHz ~5850 MHz	Channel 149	Channel 157	Channel 165
		5745MHz	5785MHz	5825MHz
802.11n/ac/ax(40M)	5725MHz ~5850 MHz	Channel 151	N/A	Channel 159
		5755MHz	N/A	5795MHz

Run Software:



Test mode:

Pre-scan under all rate at lowest channel for Ant1

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 802.11ax (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 802.11ax(40M)

5 General Information

5.1 Client Information

Applicant:	KIWISAT LLC
Address of Applicant:	1111 PennsylvaniaAvenue, NW Washington, District of Columbia 20004, United States
Manufacturer:	SHENZHEN GOLDEN STAR TECHNOLOGY LTD
Address of Manufacturer:	2-3Floor,No.181-183 FengHuang Avenue, FengHuang Community, Fuyong Street, Bao'an District, Shenzhen, China.
Factory:	SHENZHEN GOLDEN STAR TECHNOLOGY LTD
Address of Factory:	2-3Floor,No.181-183 FengHuang Avenue, FengHuang Community, Fuyong Street, Bao'an District, Shenzhen, China.

5.2 General Description of EUT

Product Name:	AAFiber/KIWISAT IPTV box Android IPTV Device AAFiber/KIWISAT IPTV Device KIWISAT, AAFiber, AAKIWI compatible IPTV device
Model No.:	AAGS-P1, AAGS-P1S
Test Model No.:	AAGS-P1
Trade Mark:	AAFiber
Software Version:	Android 11
Hardware Version:	S905Y4-M500-2024-10-10
EUT Power Supply:	Power supply DC12V
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:	Client 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 IEEE 802.11a/n/ac/ax(20M): 5250MHz ~5350 MHz IEEE802.11n/ac/ax(40M): 5250MHz ~5350 MHz IEEE 802.11a/n/ac/ax(20M): 5470MHz ~5725 MHz IEEE802.11n/ac/ax(40M): 5470MHz ~5725 MHz IEEE 802.11a/n/ac/ax(20M): 5725MHz ~5850 MHz IEEE802.11n/ac/ax(40M): 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 802.11a/n/ac/ax(20M): 5250MHz ~5350MHz/ 4 channel IEEE 802.11n/ac/ax(40M): 5250MHz ~5350MHzHz/ 2 channel IEEE 802.11a/n/ac/ax(20M): 5470MHz ~5725MHz/ 12 channel IEEE 802.11n/ac/ax(40M): 5470MHz ~5725MHz/ 6 channel IEEE 802.11a/n/ac/ax(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac/ax(40M): 5725MHz ~5850MHz/ 2 channel
Type of Modulation:	OFDM
Sample Type:	☒ Mobile ☐ Portable
Test Software of EUT:	Serial
Antenna Type:	FPC antenna
Antenna gain:	5.73dBi
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
(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
(U-NII-2C) 5500MHz-5700MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	100	5500	104	5520
	108	5540	112	5560
	116	5580	120	5600
	124	5620	128	5640
	132	5660	136	5680
	140	5700	144	5720
40MHz	102	5510	110	5550
	118	5590	126	5630
	134	5670	142	5710
(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

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
Radiated Emissions test software	Tonscend	JS1120-3
Conducted Emissions test software	Audix	e3
RF Conducted test software	Audix	e3

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 Unlicesed 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:

a) Set RBW = approximately 1% of the emission bandwidth.

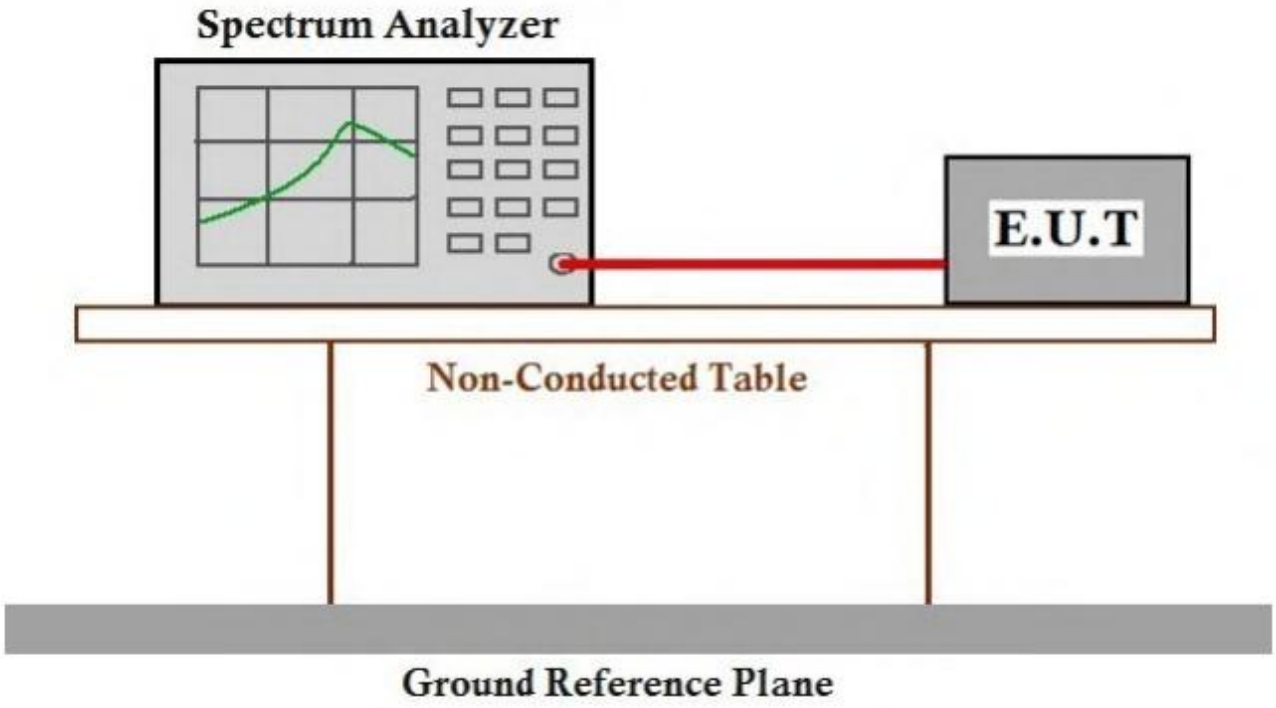
b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) 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	20.12	5170.68	5190.80
	5200	21.36	5188.84	5210.20
	5240	20.24	5230.48	5250.72
	5260	22.40	5247.84	5270.24
	5280	21.96	5268.80	5290.76
	5320	20.36	5309.60	5329.96
	5500	22.56	5488.64	5511.20
	5580	24.48	5567.48	5591.96
	5720	23.04	5709.72	5732.76
	5720_UNII-2C	15.28	5709.72	5725
	5720_UNII-3	7.76	5725	5732.76
11N20SISO	5180	21.84	5168.76	5190.60
	5200	22.56	5188.60	5211.16
	5240	22.28	5229.60	5251.88
	5260	23.08	5247.68	5270.76
	5280	22.60	5268.12	5290.72
	5320	21.84	5309.36	5331.20
	5500	21.72	5489.64	5511.36
	5580	21.72	5569.08	5590.80
	5720	24.76	5709.00	5733.76
	5720_UNII-2C	16	5709.00	5725
	5720_UNII-3	8.76	5725	5733.76
11N40SISO	5190	41.92	5168.00	5209.92
	5230	42.16	5210.00	5252.16
	5270	45.04	5246.32	5291.36
	5310	43.04	5288.64	5331.68
	5510	45.76	5487.68	5533.44
	5550	44.32	5528.08	5572.40
	5670	46.48	5646.72	5693.20
	5710	80.00	5670.00	5750.00
	5710_UNII-2C	55	5670.00	5725
	5710_UNII-3	25	5725	5750.00

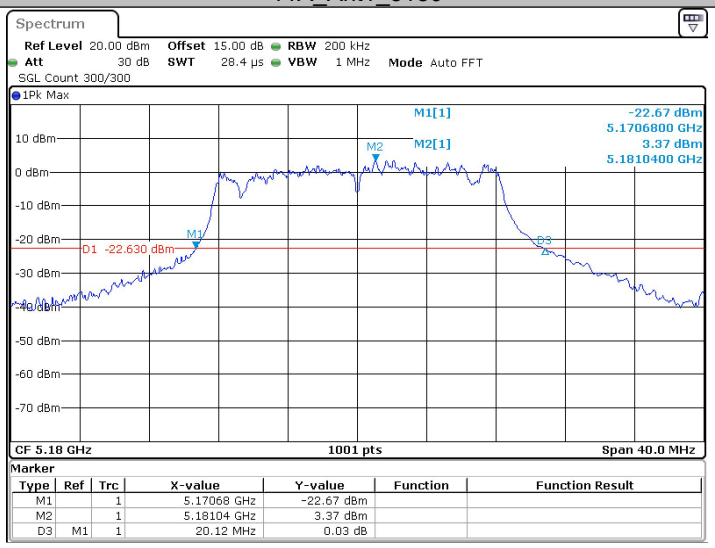
11AC20SISO	5180	23.24	5168.60	5191.84
	5200	24.64	5187.16	5211.80
	5240	23.12	5229.40	5252.52
	5260	23.32	5247.88	5271.20
	5280	24.96	5266.92	5291.88
	5320	23.16	5308.08	5331.24
	5500	24.60	5487.88	5512.48
	5580	24.80	5568.28	5593.08
	5720	26.00	5708.36	5734.36
	5720_UNII-2C	16.64	5708.36	5725
	5720_UNII-3	9.36	5725	5734.36
11AC40SISO	5190	43.36	5167.84	5211.20
	5230	46.64	5206.80	5253.44
	5270	45.36	5246.64	5292.00
	5310	41.76	5289.28	5331.04
	5510	46.24	5486.72	5532.96
	5550	45.52	5526.72	5572.24
	5670	45.44	5647.20	5692.64
	5710	80.00	5670.00	5750.00
	5710_UNII-2C	55	5670.00	5725
	5710_UNII-3	25	5725	5750.00
11AX20SISO	5180	24.16	5168.92	5193.08
	5200	22.96	5188.40	5211.36
	5240	23.80	5228.40	5252.20
	5260	23.44	5247.84	5271.28
	5280	23.52	5267.52	5291.04
	5320	22.20	5308.28	5330.48
	5500	25.68	5487.88	5513.56
	5580	25.76	5568.00	5593.76
	5720	27.60	5708.88	5736.48
	5720_UNII-2C	16.12	5708.88	5725
	5720_UNII-3	11.48	5725	5736.48
11AX40SISO	5190	42.08	5168.72	5210.80
	5230	43.36	5208.64	5252.00

	5270	43.44	5246.96	5290.40
	5310	43.44	5287.76	5331.20
	5510	46.88	5486.48	5533.36
	5550	43.12	5528.08	5571.20
	5670	43.84	5647.04	5690.88
	5710	80.00	5670.00	5750.00
	5710_UNII-2C	55	5670.00	5725
	5710_UNII-3	25	5725	5750.00

TestMode	Freq(MHz)	6db EBW [MHz]	Limit[MHz]	Verdict
11A	5745	14.52	0.5	PASS
	5785	9.44	0.5	PASS
	5825	16.44	0.5	PASS
11N20SISO	5745	17.68	0.5	PASS
	5785	17.08	0.5	PASS
	5825	17.76	0.5	PASS
11N40SISO	5755	35.76	0.5	PASS
	5795	30.00	0.5	PASS
11AC20SISO	5745	16.36	0.5	PASS
	5785	17.44	0.5	PASS
	5825	17.72	0.5	PASS
11AC40SISO	5755	35.92	0.5	PASS
	5795	35.12	0.5	PASS
11AX20SISO	5745	8.20	0.5	PASS
	5785	17.20	0.5	PASS
	5825	19.12	0.5	PASS
11AX40SISO	5755	36.72	0.5	PASS
	5795	35.04	0.5	PASS

Test Graph

11A_Ant1_5180



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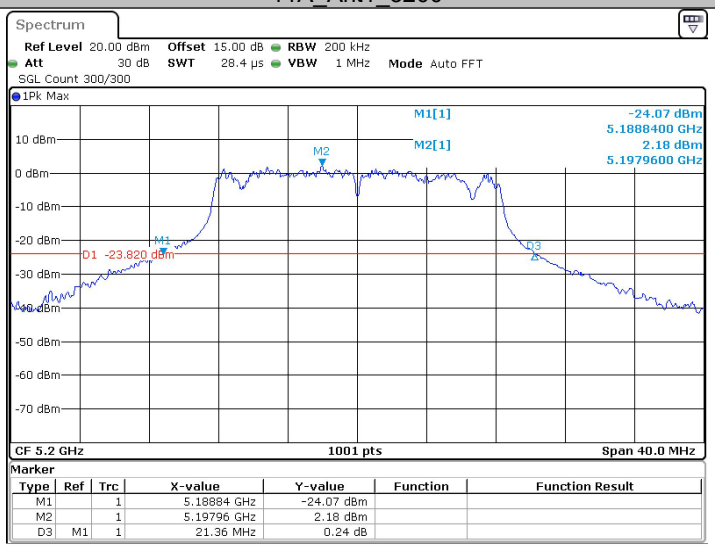
11A_Ant1_5200



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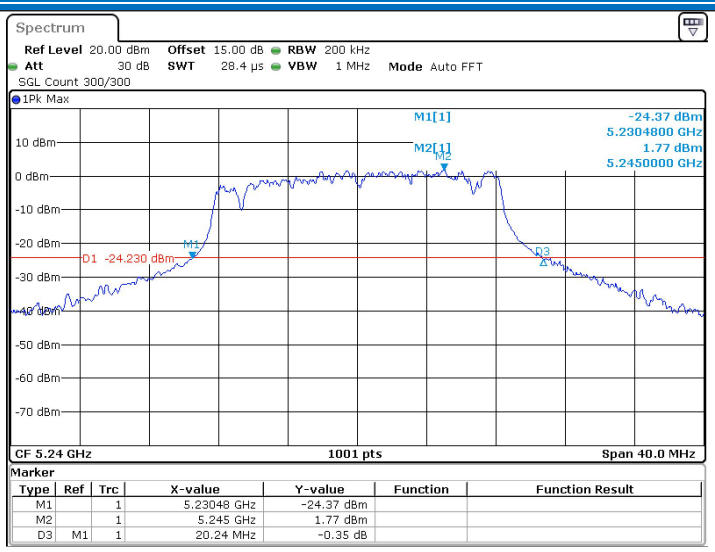
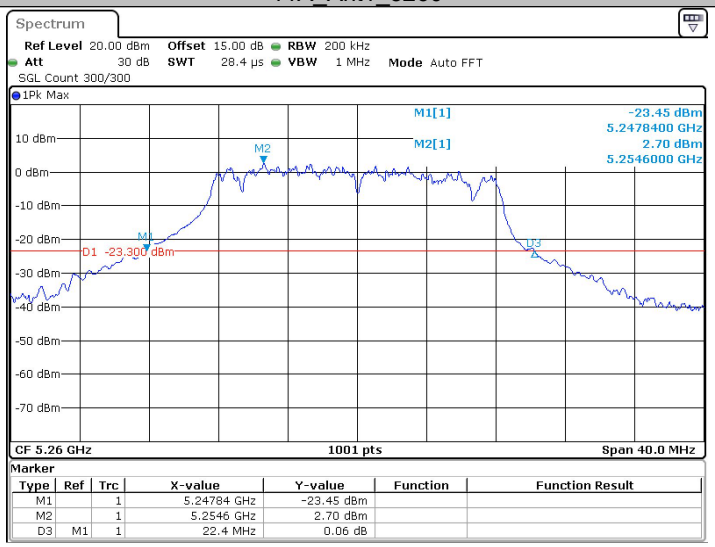
11A_Ant1_5240



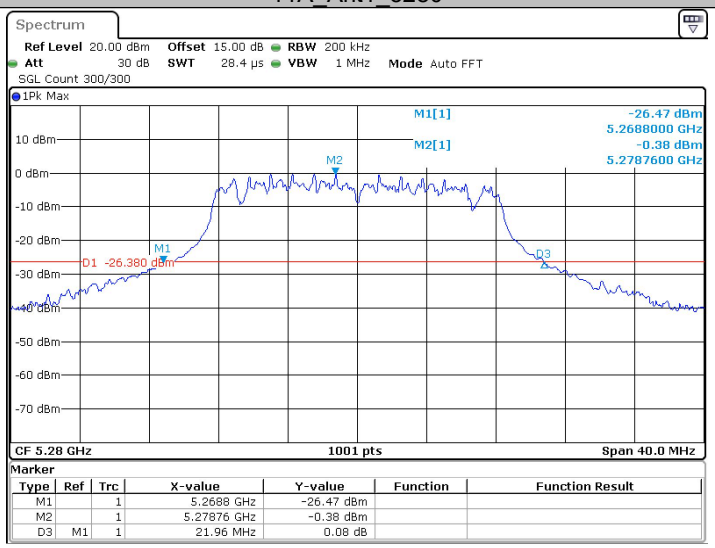
Date: 18.JAN.2025 10:58:58

11A_Ant1_5260



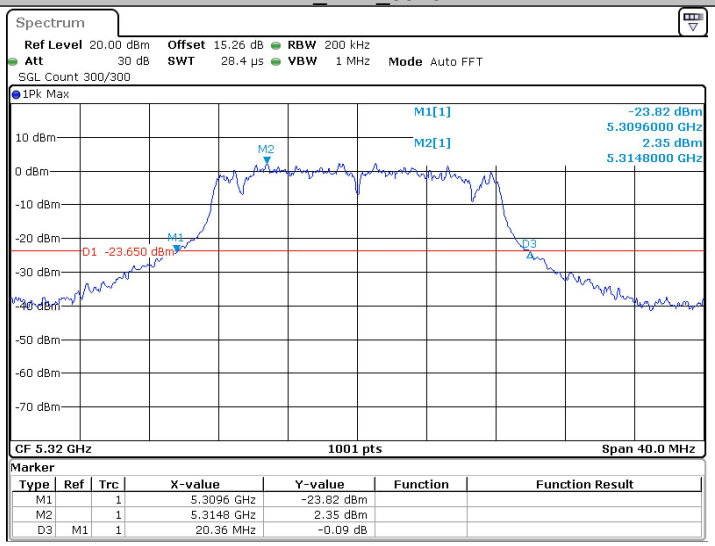
Date: 18.JAN.2025 11:02:11

11A_Ant1_5280



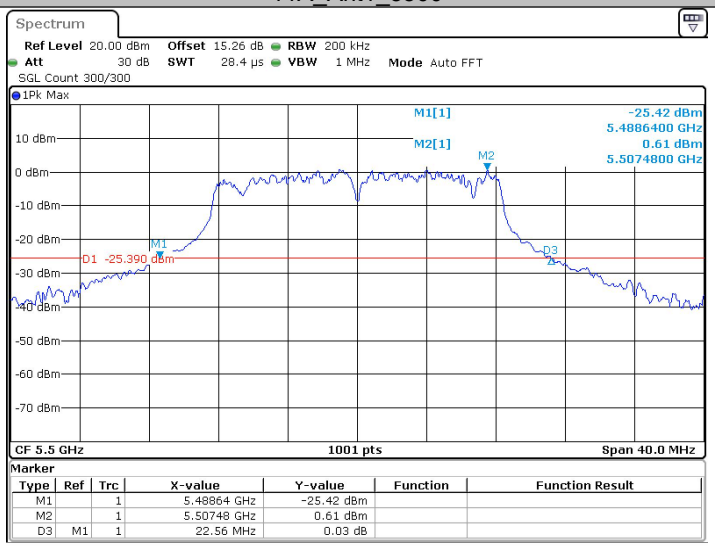
Date: 18.JAN.2025 11:05:37

11A_Ant1_5320



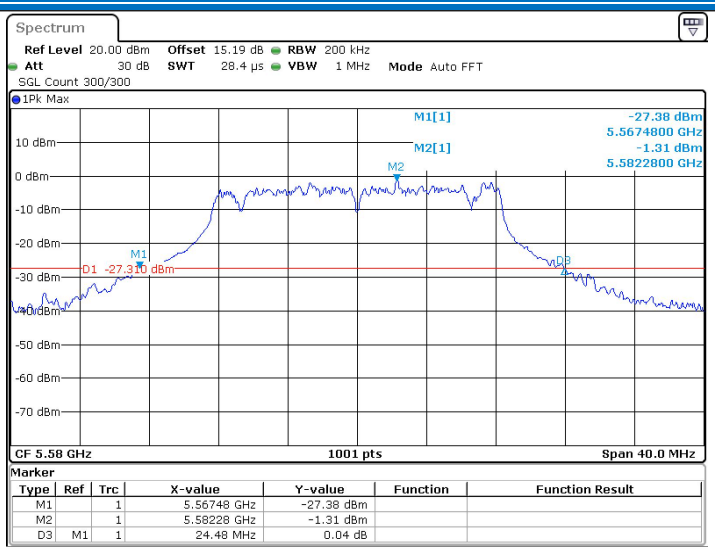
Date: 18.JAN.2025 11:08:56

11A_Ant1_5500



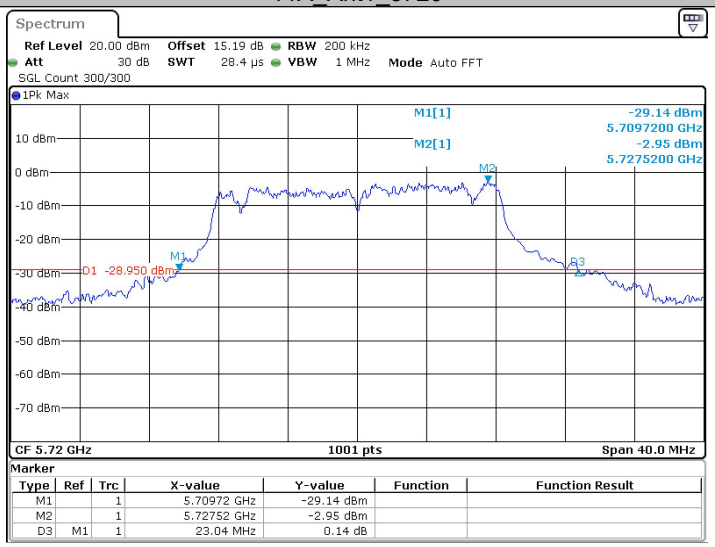
Date: 18.JAN.2025 11:13:08

11A_Ant1_5580



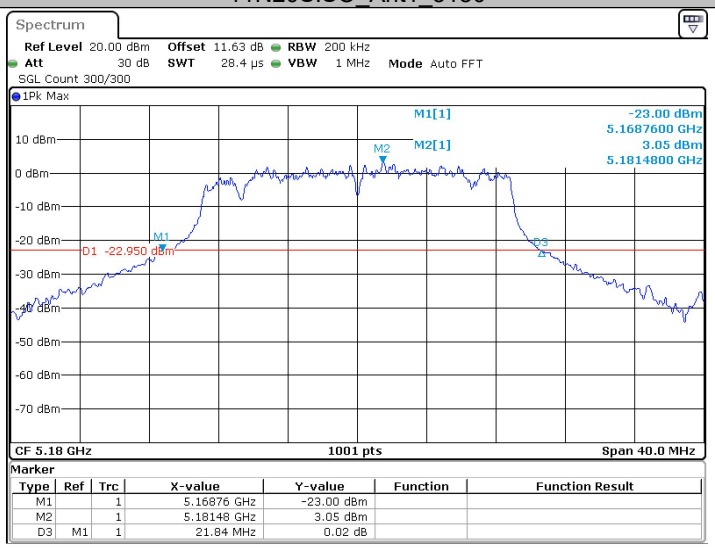
Date: 18.JAN.2025 11:18:30

11A_Ant1_5720



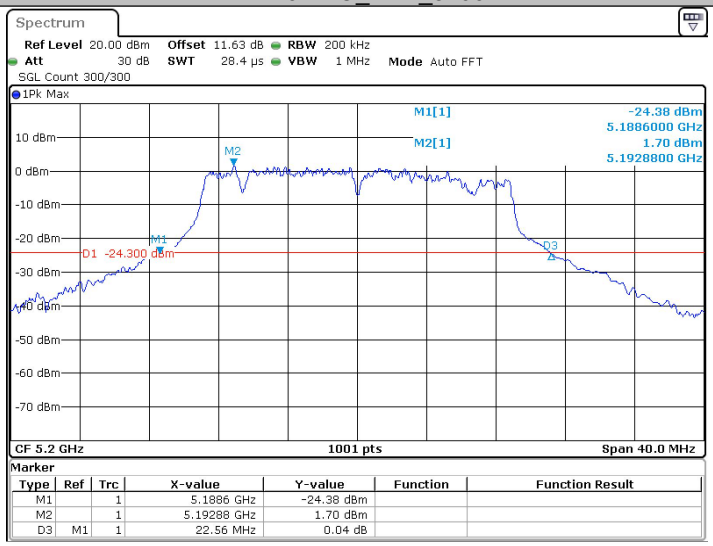
Date: 18.JAN.2025 11:21:57

11N20SISO_Ant1_5180



Date: 18.JAN.2025 11:41:15

11N20SISO_Ant1_5200



Date: 18.JAN.2025 11:45:12

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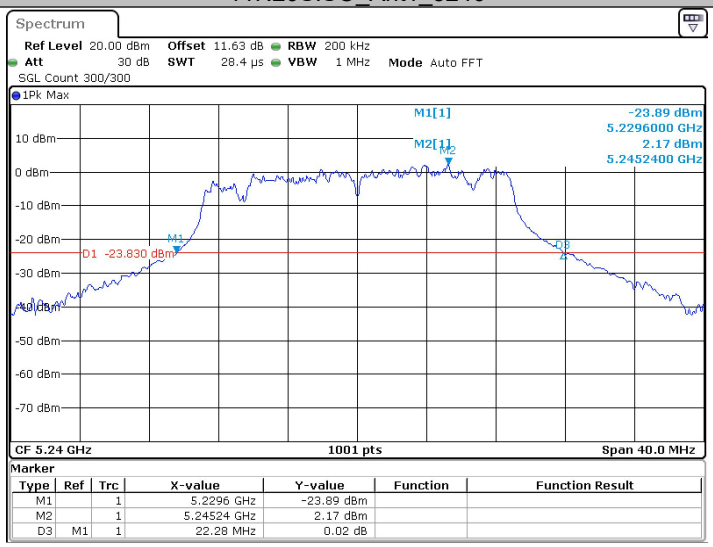
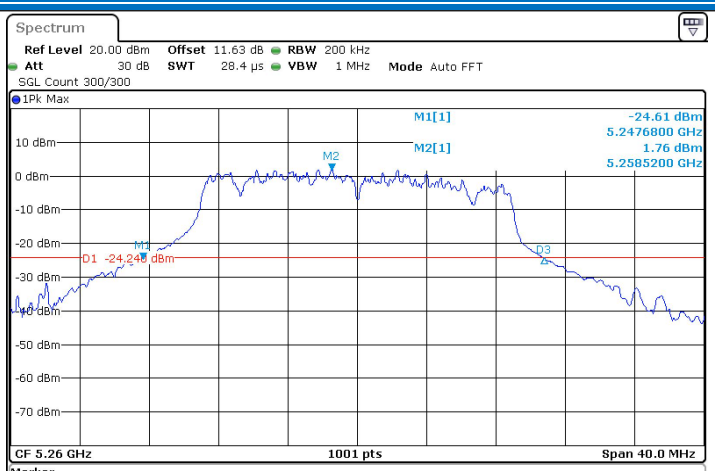


Date: 18.JAN.2025 11:47:27

11N20SISO_Ant1_5260

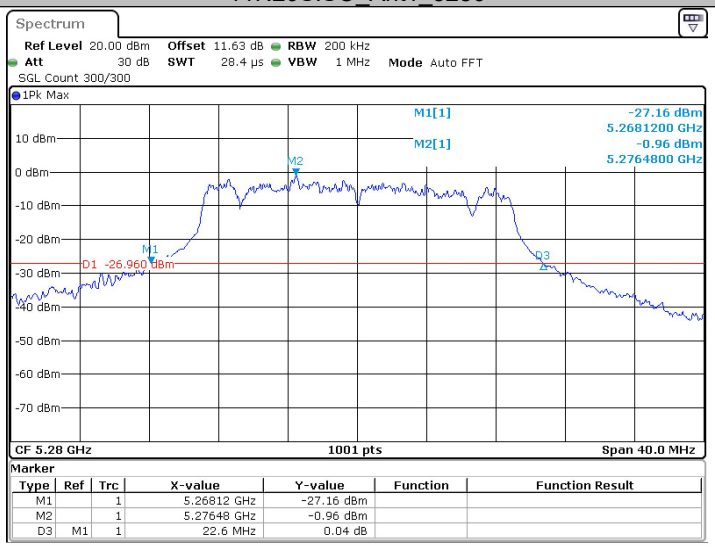


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.24768 GHz	-24.61 dBm		
M2		1	5.25852 GHz	1.76 dBm		
D3	M1	1	23.08 MHz	0.31 dB		

Date: 18.JAN.2025 11:50:49

11N20SISO_Ant1_5280

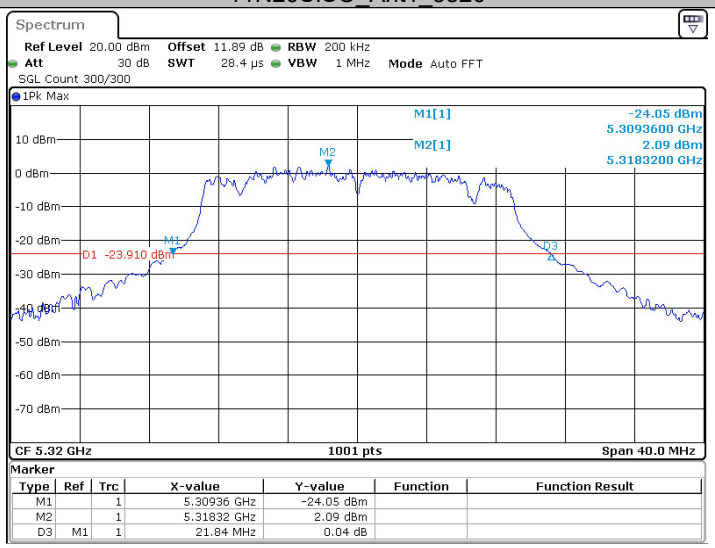


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.26812 GHz	-27.16 dBm		
M2		1	5.27648 GHz	-0.96 dBm		
D3	M1	1	22.6 MHz	0.04 dB		

Date: 18.JAN.2025 11:54:20

11N20SISO_Ant1_5320

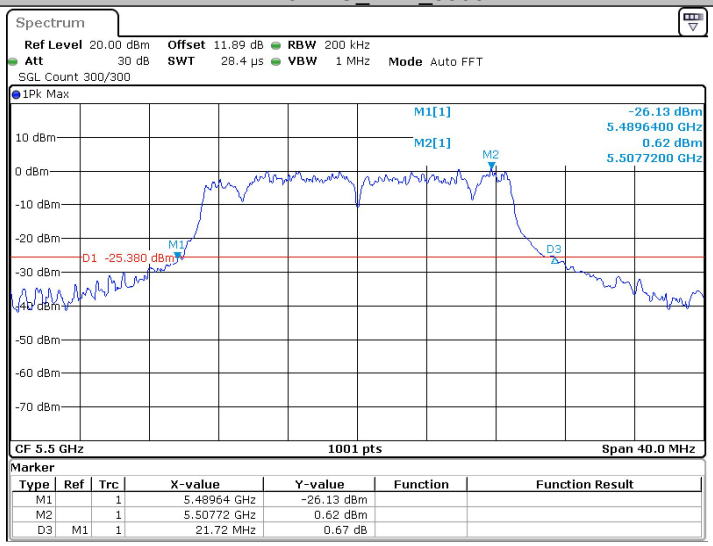


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.30936 GHz	-24.05 dBm		
M2		1	5.31832 GHz	2.09 dBm		
D3	M1	1	21.84 MHz	0.04 dB		

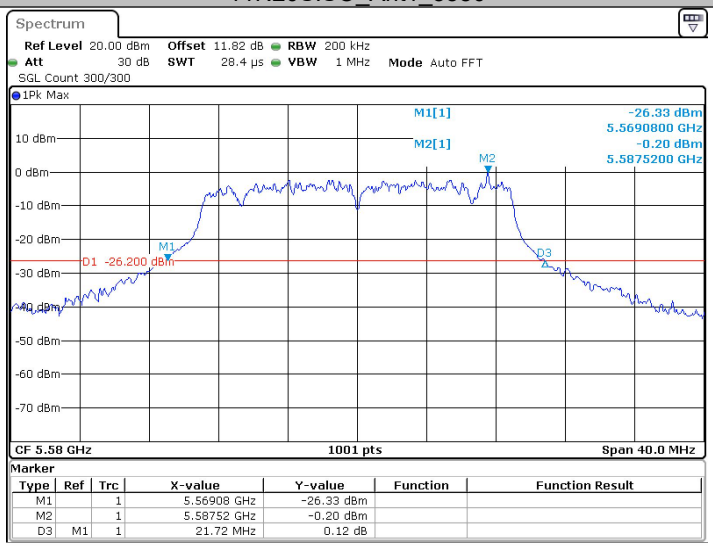
Date: 18.JAN.2025 11:57:50

11N20SISO_Ant1_5500



Date: 18.JAN.2025 12:02:30

11N20SISO_Ant1_5580



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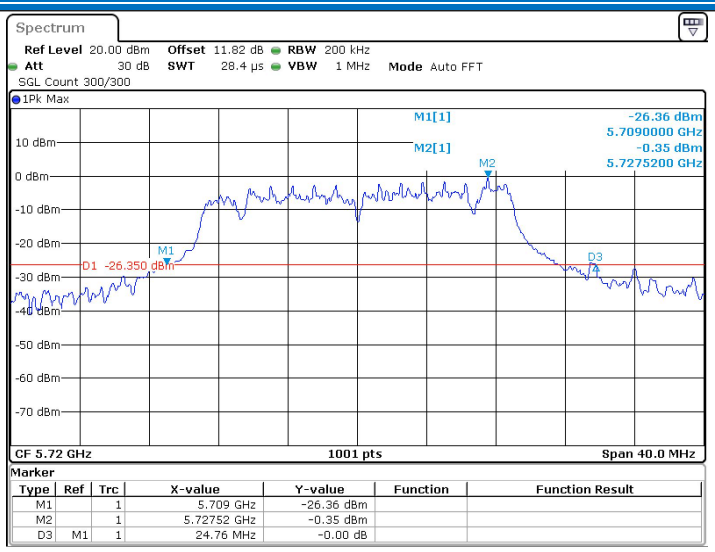
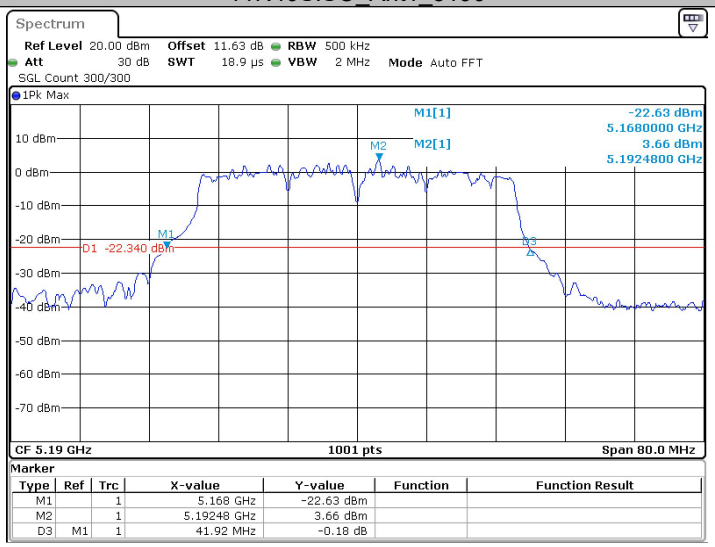


Date: 18.JAN.2025 12:10:56

11N40SISO_Ant1_5190



Date: 18.JAN.2025 13:37:24

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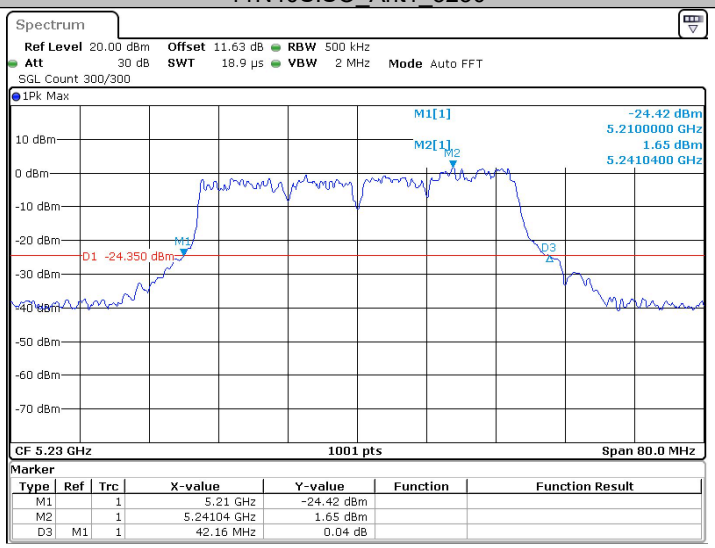

Date: 18.JAN.2025 13:41:09

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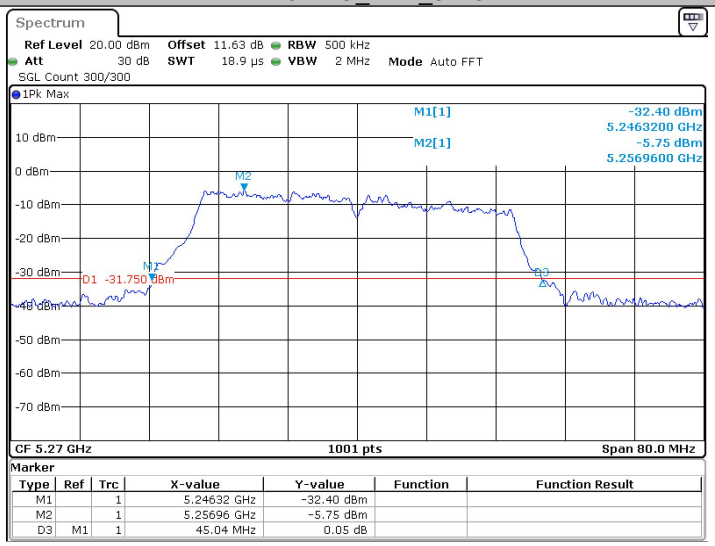

Date: 18.JAN.2025 13:42:34

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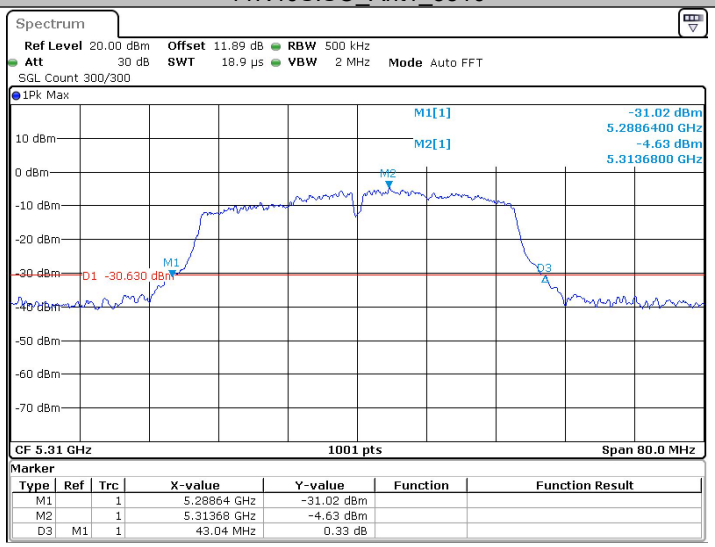

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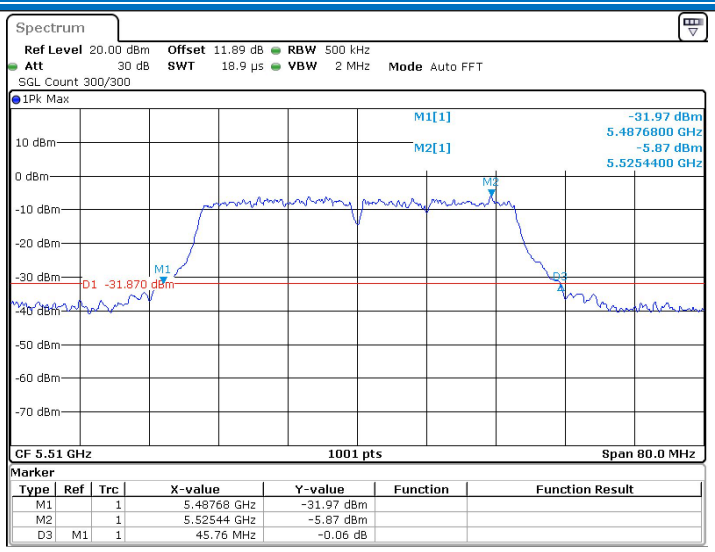

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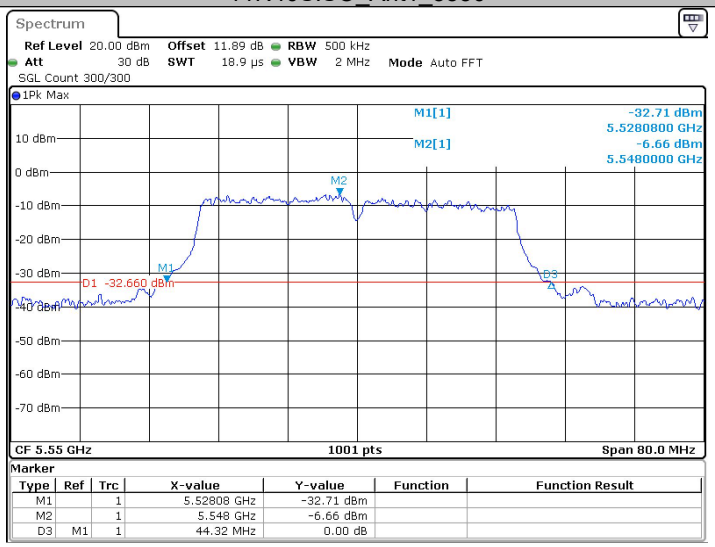
11N40SISO_Ant1_5550



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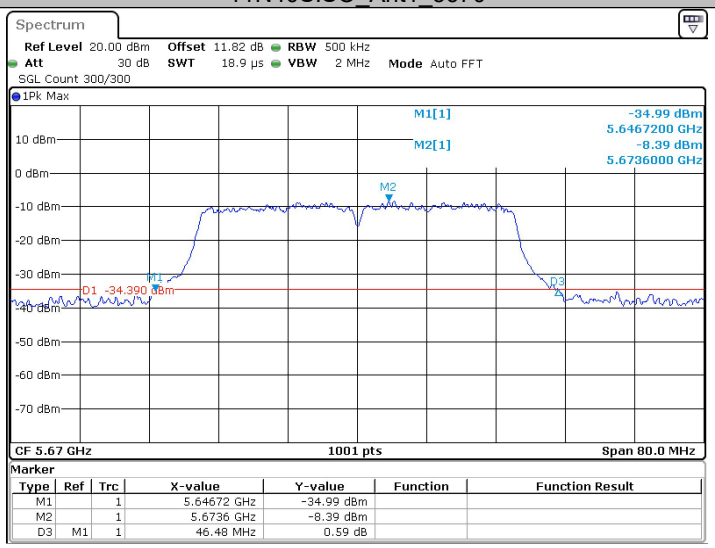

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