



FCC RF Test Report

APPLICANT : Akteena
EQUIPMENT : Akteena Peripheral Camera
BRAND NAME : Akteena
MODEL NAME : A9-2800P
FCC ID : 2BL79-A928
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Mar. 15, 2025 ~ Apr. 18, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR4O2415B	Rev. 01	Initial issue of report	Apr. 22, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 0.39 dB at 5350.45 MHz
-	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Not Applicable	Not connect to the AC mains
3.5	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Akteena

Akteena INC, 41369 Vincenti Ct., Novi Michigan 48375, U.S.A

1.2 Manufacturer

VVDN Technologies Pvt Ltd

Plot No: CP-07, Sector-8,IMT Manesar, Gurugram-122050,Haryana,INDIA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Akteena Peripheral Camera
Brand Name	Akteena
Model Name	A9-2800P
FCC ID	2BL79-A928
SN	A9-2800P_DVT_CERT_001
HW Version	B1
SW Version	2.4.0
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	<5180 MHz ~ 5240 MHz> 802.11a : 11.99 dBm / 0.0158 W 802.11n HT20 : 11.28 dBm / 0.0134 W 802.11n HT40 : 11.49 dBm / 0.0141 W 802.11ac VHT20: 11.44 dBm / 0.0139 W 802.11ac VHT40: 11.68 dBm / 0.0147 W 802.11ac VHT80: 8.75 dBm / 0.0075 W <5260 MHz ~ 5320 MHz> 802.11a : 12.01 dBm / 0.0159 W 802.11n HT20 : 11.52 dBm / 0.0142 W 802.11n HT40 : 11.48 dBm / 0.0141 W 802.11ac VHT20: 11.61 dBm / 0.0145 W 802.11ac VHT40: 11.58 dBm / 0.0144 W 802.11ac VHT80: 6.53 dBm / 0.0045 W <5500 MHz ~ 5700 MHz > 802.11a : 11.93 dBm / 0.0156 W 802.11n HT20 : 11.51 dBm / 0.0142 W 802.11n HT40 : 12.01 dBm / 0.0159 W 802.11ac VHT20: 11.60 dBm / 0.0145 W 802.11ac VHT40: 12.17 dBm / 0.0165 W 802.11ac VHT80: 11.64 dBm / 0.0146 W <5745 MHz ~ 5825 MHz> 802.11a : 12.25 dBm / 0.0168 W 802.11n HT20 : 11.78 dBm / 0.0151 W 802.11n HT40 : 12.02 dBm / 0.0159 W 802.11ac VHT20: 11.95 dBm / 0.0157 W 802.11ac VHT40: 12.15 dBm / 0.0164 W 802.11ac VHT80: 11.57 dBm / 0.0144 W
99% Occupied Bandwidth	<5180 MHz ~ 5240 MHz> 802.11a : 18.873 MHz 802.11ac VHT20 : 19.600 MHz 802.11ac VHT40 : 40.059 MHz 802.11ac VHT80 : 76.073 MHz <5260 MHz ~ 5320 MHz> 802.11a : 18.364 MHz 802.11ac VHT20 : 18.945 MHz 802.11ac VHT40 : 38.182 MHz 802.11ac VHT80 : 75.636 MHz <5500 MHz ~ 5700 MHz> 802.11a : 18.436 MHz 802.11ac VHT20 : 18.909 MHz 802.11ac VHT40 : 37.091 MHz 802.11ac VHT80 : 76.364 MHz <5745 MHz ~ 5825 MHz> 802.11a : 19.709 MHz 802.11ac VHT20 : 19.673 MHz 802.11ac VHT40 : 38.182 MHz

	802.11ac VHT80 : 76.800 MHz
Antenna Type / Gain	<5180 MHz ~ 5240 MHz> Monopole Antenna type with gain 4.33 dBi <5260 MHz ~ 5320 MHz> Monopole Antenna type with gain 4.73 dBi <5500 MHz ~ 5700 MHz> Monopole Antenna type with gain 4.22 dBi <5745 MHz ~ 5825 MHz> Monopole Antenna type with gain 4.18 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

Note: For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the RSE testing have assessed only 802.11ac VHT20/VHT40 by referring to their maximum conducted power.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS 03CH08-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH08-KS	AUDIX	E3	210616
2.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10



1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210	-	-
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290	-	-
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
U-NII-2C	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640

Note:

1. The above Frequency and Channel in "*" are 40MHz bandwidth.
2. The above Frequency and Channel in "#" are 80MHz bandwidth.

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

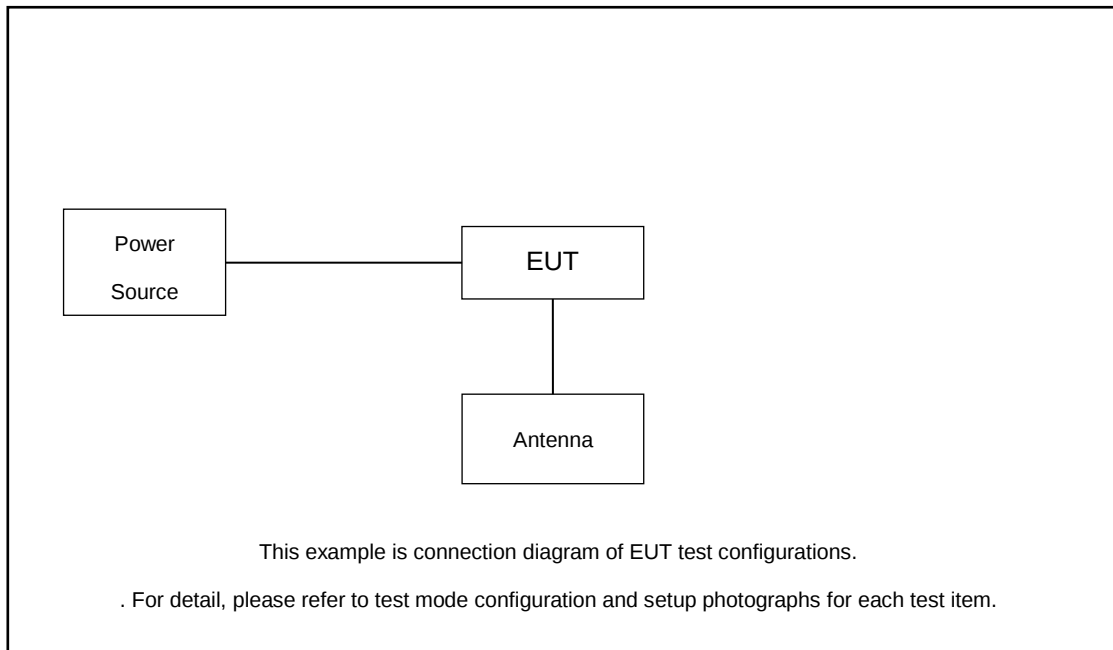
Modulation		Data Rate
802.11a		6 Mbps
802.11ac VHT20		MCS0
802.11ac VHT40		MCS0
802.11ac VHT80		MCS0

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		40M BW	40M BW	40M BW	40M BW
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		80M BW	80M BW	80M BW	80M BW
L	Low	-	-	106	-
M	Middle	42	58	-	155
H	High	-	-	122	-

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Antenna	N/A	N/A	N/A	N/A	N/A
2.	DC Power	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit.



2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.51 dB and 20dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.51 + 20 = 24.51 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

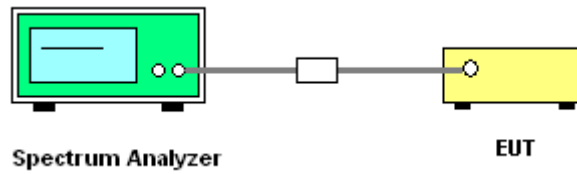
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

☒	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW) and 99% OBW
	- 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 peak 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%. - For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set to 1%~5% of the OBW and set the Video bandwidth (VBW) $\geq 3 \times$ RBW. - Measure and record the results in the test report.
☒	Section C) Bandwidth Measurement 2. Minimum Emission Bandwidth for the band 5.725 - 5.85 GHz
	- Set RBW = 100kHz. - Set the VBW $\geq 3 \times$ RBW. - Detector = Peak. - Trace mode = max hold - Measure the maximum width of the emission that is 6 dB down from the peak of the emission. - Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm +10 log₁₀ B, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

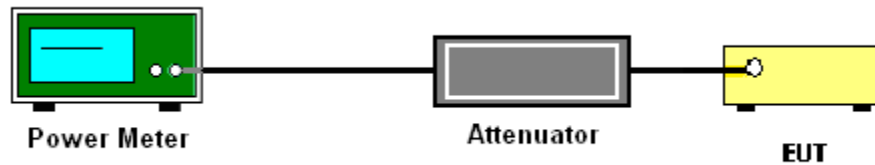
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

U-NII-1											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Power Setting	
11a	6Mbps	1	36	5180	0.32	10.37	24.00	4.33	Pass	15.5	
11a	6Mbps	1	44	5220	0.32	11.97	24.00	4.33	Pass	17	
11a	6Mbps	1	48	5240	0.32	11.99	24.00	4.33	Pass	17	
HT20	MCS0	1	36	5180	0.33	9.95	24.00	4.33	Pass	15	
HT20	MCS0	1	44	5220	0.33	11.28	24.00	4.33	Pass	17	
HT20	MCS0	1	48	5240	0.33	11.25	24.00	4.33	Pass	17	
HT40	MCS0	1	38	5190	0.63	9.10	24.00	4.33	Pass	14.5	
HT40	MCS0	1	46	5230	0.63	11.49	24.00	4.33	Pass	17	
VHT20	MCS0	1	36	5180	0.32	10.15	24.00	4.33	Pass	15	
VHT20	MCS0	1	44	5220	0.32	11.39	24.00	4.33	Pass	17	
VHT20	MCS0	1	48	5240	0.32	11.44	24.00	4.33	Pass	17	
VHT40	MCS0	1	38	5190	0.62	9.25	24.00	4.33	Pass	14.5	
VHT40	MCS0	1	46	5230	0.62	11.68	24.00	4.33	Pass	17	
VHT80	MCS0	1	42	5210	1.18	8.75	24.00	4.33	Pass	14.5	

U-NII-2A											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	Power Setting
11a	6Mbps	1	52	5260	0.32	12.01	23.98	4.73	26.99	Pass	17
11a	6Mbps	1	60	5300	0.32	11.96	23.98	4.73	26.99	Pass	17
11a	6Mbps	1	64	5320	0.32	9.96	23.98	4.73	26.99	Pass	15.5
HT20	MCS0	1	52	5260	0.33	11.34	23.98	4.73	26.99	Pass	17
HT20	MCS0	1	60	5300	0.33	11.52	23.98	4.73	26.99	Pass	17
HT20	MCS0	1	64	5320	0.33	9.54	23.98	4.73	26.99	Pass	15
HT40	MCS0	1	54	5270	0.63	11.48	23.98	4.73	26.99	Pass	17
HT40	MCS0	1	62	5310	0.63	7.48	23.98	4.73	26.99	Pass	13
VHT20	MCS0	1	52	5260	0.32	11.50	23.98	4.73	26.99	Pass	17
VHT20	MCS0	1	60	5300	0.32	11.61	23.98	4.73	26.99	Pass	17
VHT20	MCS0	1	64	5320	0.32	9.65	23.98	4.73	26.99	Pass	15
VHT40	MCS0	1	54	5270	0.62	11.58	23.98	4.73	26.99	Pass	17
VHT40	MCS0	1	62	5310	0.62	7.60	23.98	4.73	26.99	Pass	13
VHT80	MCS0	1	58	5290	1.18	6.53	23.98	4.73	26.99	Pass	12



U-NII-2C											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	Power Setting
11a	6Mbps	1	100	5500	0.32	11.61	23.98	4.22	26.99	Pass	17
11a	6Mbps	1	116	5580	0.32	11.93	23.98	4.22	26.99	Pass	17
11a	6Mbps	1	140	5700	0.32	11.91	23.98	4.22	26.99	Pass	17
HT20	MCS0	1	100	5500	0.33	11.11	23.98	4.22	26.99	Pass	17
HT20	MCS0	1	116	5580	0.33	11.20	23.98	4.22	26.99	Pass	17
HT20	MCS0	1	140	5700	0.33	11.51	23.98	4.22	26.99	Pass	17
HT40	MCS0	1	102	5510	0.63	10.06	23.98	4.22	26.99	Pass	16.5
HT40	MCS0	1	110	5550	0.63	11.62	23.98	4.22	26.99	Pass	17
HT40	MCS0	1	134	5670	0.63	12.01	23.98	4.22	26.99	Pass	17
VHT20	MCS0	1	100	5500	0.32	11.28	23.98	4.22	26.99	Pass	17
VHT20	MCS0	1	116	5580	0.32	11.39	23.98	4.22	26.99	Pass	17
VHT20	MCS0	1	140	5700	0.32	11.60	23.98	4.22	26.99	Pass	17
VHT40	MCS0	1	102	5510	0.62	10.21	23.98	4.22	26.99	Pass	16.5
VHT40	MCS0	1	110	5550	0.62	11.71	23.98	4.22	26.99	Pass	17
VHT40	MCS0	1	134	5670	0.62	12.17	23.98	4.22	26.99	Pass	17
VHT80	MCS0	1	106	5530	1.18	7.25	23.98	4.22	26.99	Pass	13.5
VHT80	MCS0	1	122	5610	1.18	11.64	23.98	4.22	26.99	Pass	17

U-NII-3										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Power Setting
11a	6Mbps	1	149	5745	0.32	12.25	30.00	4.18	Pass	17
11a	6Mbps	1	157	5785	0.32	11.69	30.00	4.18	Pass	17
11a	6Mbps	1	165	5825	0.32	11.10	30.00	4.18	Pass	17
HT20	MCS0	1	149	5745	0.33	11.78	30.00	4.18	Pass	17
HT20	MCS0	1	157	5785	0.33	11.22	30.00	4.18	Pass	17
HT20	MCS0	1	165	5825	0.33	10.67	30.00	4.18	Pass	17
HT40	MCS0	1	151	5755	0.63	12.02	30.00	4.18	Pass	17
HT40	MCS0	1	159	5795	0.63	11.36	30.00	4.18	Pass	17
VHT20	MCS0	1	149	5745	0.32	11.95	30.00	4.18	Pass	17
VHT20	MCS0	1	157	5785	0.32	11.41	30.00	4.18	Pass	17
VHT20	MCS0	1	165	5825	0.32	10.81	30.00	4.18	Pass	17
VHT40	MCS0	1	151	5755	0.62	12.15	30.00	4.18	Pass	17
VHT40	MCS0	1	159	5795	0.62	11.50	30.00	4.18	Pass	17
VHT80	MCS0	1	155	5775	1.18	11.57	30.00	4.18	Pass	17

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section F) Maximum power spectral density.

For devices operating in the bands UNII-1/2A/2C

Method SA-2

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$

dB if the duty cycle is 25 percent.

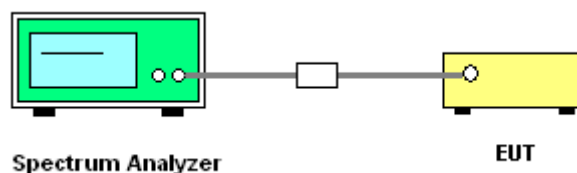
For devices operating in the band UNII-3

Method SA-2

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

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 500KHz (or 300 kHz if the SA can't set RBW=500KHz).
 - Set VBW ≥ 1 MHz.
 - Number of points in sweep ≥ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - If the SA can't set RBW=500KHz, then add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz .

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz . Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz .

- (2) For transmitters operating in the 5.725-5.85 GHz band:
- 15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz 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 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 at the band edge.

(3) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

(4) EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.2

Note: The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

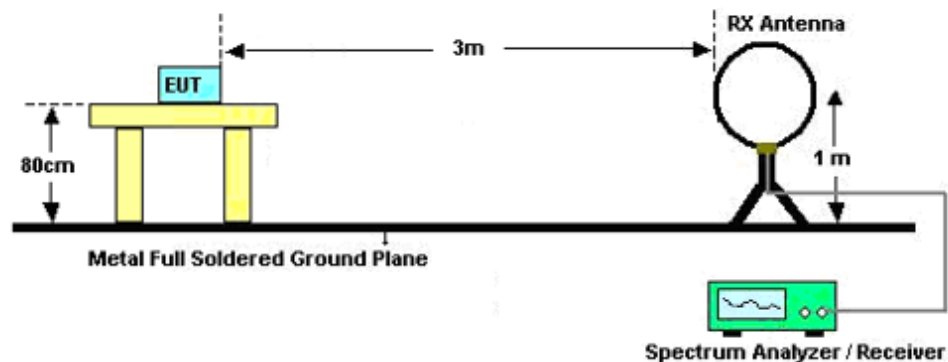
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.
 - (4) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 3 MHz
 - Detector = power averaging (rms), set span/(# of points in sweep) $\geq$ RBW/2.
 - Averaging type = power averaging(RMS)
 - The correction factor shall be offset is 10 log (1/x), where x is the duty cycle.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the

limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.

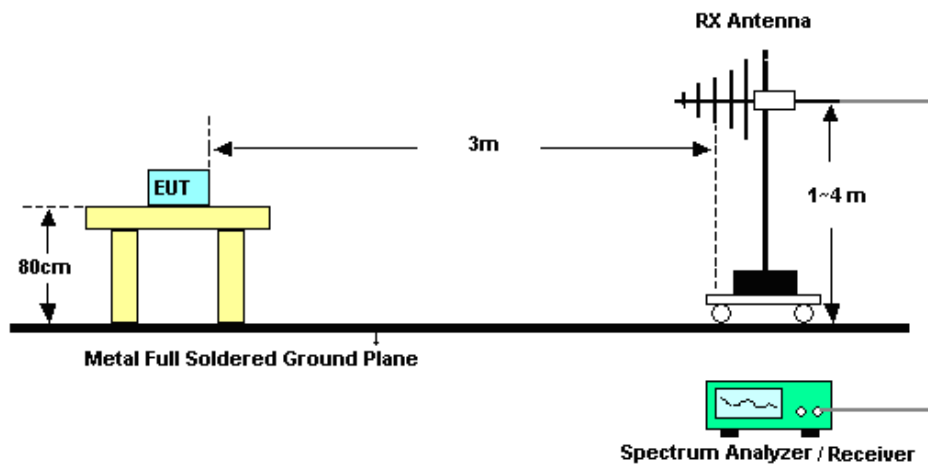
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

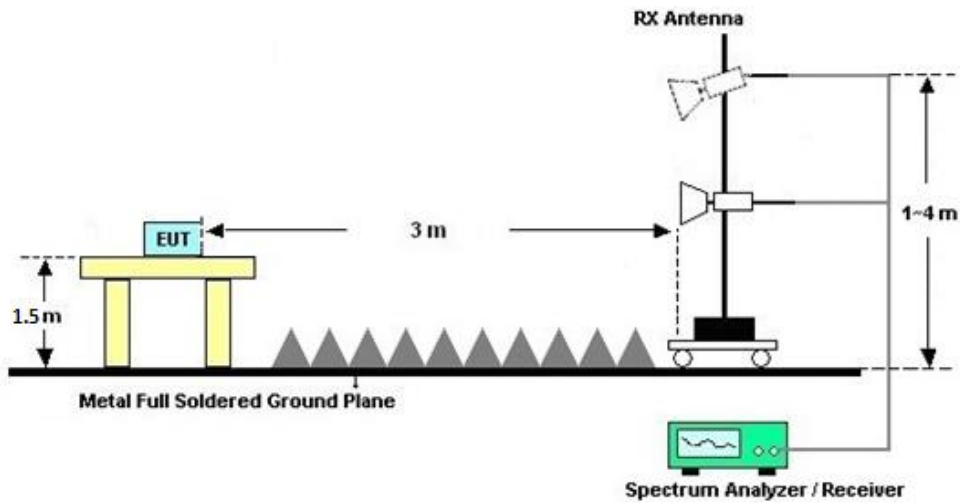
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.4.7 Duty Cycle

Please refer to Appendix C.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix B.



3.5 Antenna Requirements

3.5.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.5.2 Antenna Anti-Replacement Construction

Non-standard antenna connector is used.

3.5.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 04, 2024	Mar. 15, 2025	Jul. 03, 2025	Radiation (03CH08-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57441079	10Hz~44GHz	Oct. 09, 2024	Mar. 15, 2025	Oct. 08, 2025	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Mar. 15, 2025	Sep. 07, 2025	Radiation (03CH08-KS)
Bilog Antenna	TESEQ	CBL 6111D	59915	30MHz~1GHz	Aug. 18, 2024	Mar. 15, 2025	Aug. 17, 2025	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240138	1GHz~18GHz	Jul. 06, 2024	Mar. 15, 2025	Jul. 05, 2025	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060890	1Ghz~18Ghz	Jul. 23, 2024	Mar. 15, 2025	Jul. 22, 2025	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Mar. 15, 2025	Oct. 21, 2025	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 03, 2024	Mar. 15, 2025	Jul. 02, 2025	Radiation (03CH08-KS)
Amplifier	Keysight	83017A	MY53270417	500MHz~26.5GHz	Oct. 09, 2024	Mar. 15, 2025	Oct. 08, 2025	Radiation (03CH08-KS)
Amplifier	EM	EM18G40GGA	060737	18~40GHz	Jan. 03, 2025	Mar. 15, 2025	Jan. 02, 2026	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Mar. 15, 2025	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Mar. 15, 2025	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Mar. 15, 2025	NCR	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Apr. 17, 2025~Apr. 18, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Apr. 17, 2025~Apr. 18, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Apr. 17, 2025~Apr. 18, 2025	Jan. 01, 2026	Conducted (TH01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 2.22 dB
Occupied Channel Bandwidth	$\pm 0.1\%$
Conducted Power	± 0.50 dB
Conducted Power Spectral Density	± 0.90 dB
Frequency	± 0.04 ppm

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30dB
---	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.04dB
---	--------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.26dB
---	--------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.40dB
---	--------

----- THE END -----



Appendix A. Conducted Test Results



Ambient Condition: 25 °C, 45 %RH

Test Date: 2025.4.17~2025.4.18

Test Engineer: Jiang Jun

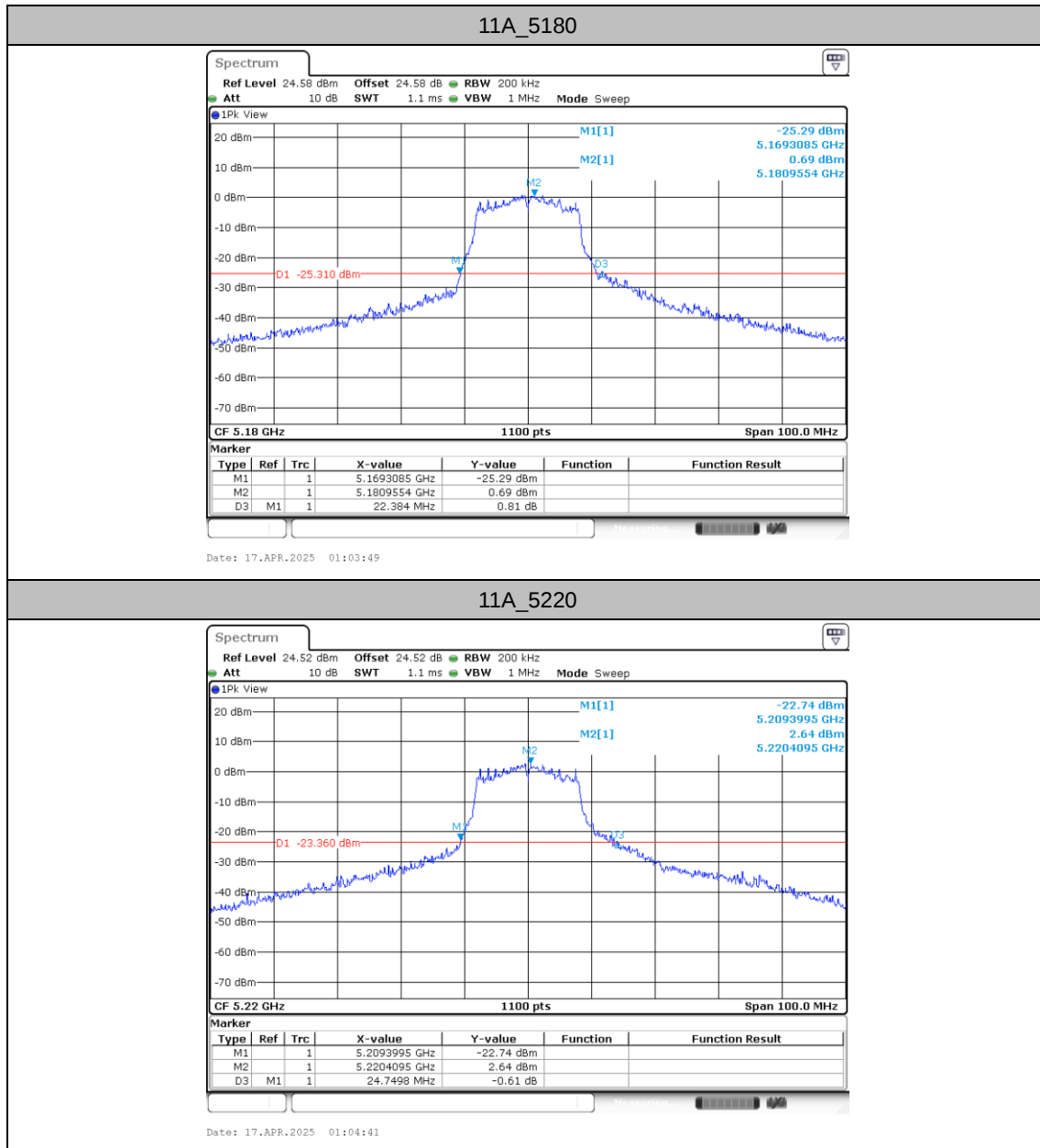
Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.38	5169.31	5191.69	---	---
		5220	24.75	5209.40	5234.15	---	---
		5240	28.84	5226.76	5255.61	---	---
		5260	24.20	5249.31	5273.51	---	---
		5300	24.11	5289.31	5313.42	---	---
		5320	21.66	5309.31	5330.96	---	---
		5500	28.48	5484.67	5513.15	---	---
		5580	26.75	5565.12	5591.87	---	---
		5700	24.75	5687.03	5711.78	---	---
		5745	28.75	5729.67	5758.42	---	---
		5785	29.57	5769.49	5799.06	---	---
		5825	30.94	5809.58	5840.51	---	---
11AC20SISO	Ant1	5180	27.84	5169.40	5197.24	---	---
		5220	22.02	5209.67	5231.69	---	---
		5240	29.03	5228.58	5257.61	---	---
		5260	26.57	5249.22	5275.79	---	---
		5300	27.12	5288.13	5315.24	---	---
		5320	24.29	5309.22	5333.51	---	---
		5500	27.84	5486.49	5514.33	---	---
		5580	25.84	5566.03	5591.87	---	---
		5700	27.12	5686.31	5713.42	---	---
		5745	27.48	5730.49	5757.97	---	---
		5785	28.30	5771.03	5799.33	---	---
		5825	30.94	5810.30	5841.24	---	---
11AC40SISO	Ant1	5190	51.68	5170.07	5221.76	---	---
		5230	66.97	5205.89	5272.86	---	---
		5270	59.69	5249.89	5309.58	---	---
		5310	40.95	5290.25	5331.20	---	---
		5510	44.59	5487.34	5531.93	---	---
		5550	63.69	5517.70	5581.39	---	---
		5670	59.33	5640.43	5699.75	---	---
		5755	65.33	5724.34	5789.67	---	---
		5795	68.06	5763.24	5831.31	---	---
11AC80SISO	Ant1	5210	91.36	5169.78	5261.14	---	---
		5290	82.98	5250.15	5333.13	---	---
		5530	80.80	5489.78	5570.58	---	---
		5610	115.38	5551.95	5667.32	---	---
		5775	119.02	5716.22	5835.24	---	---

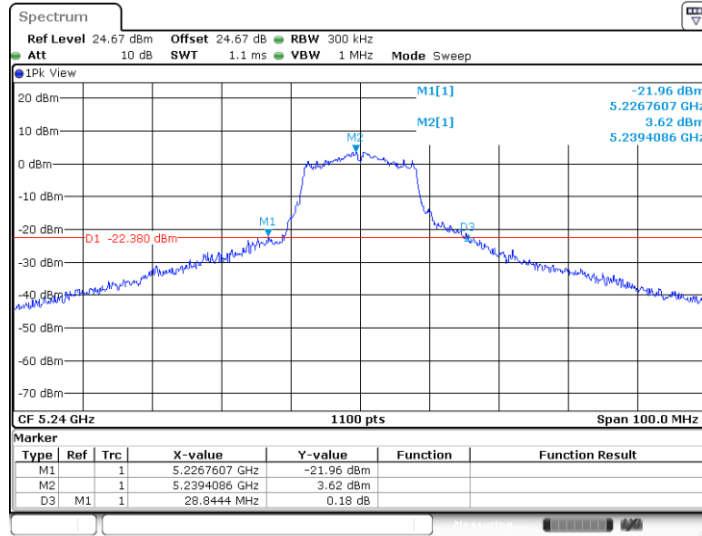


Test Graphs



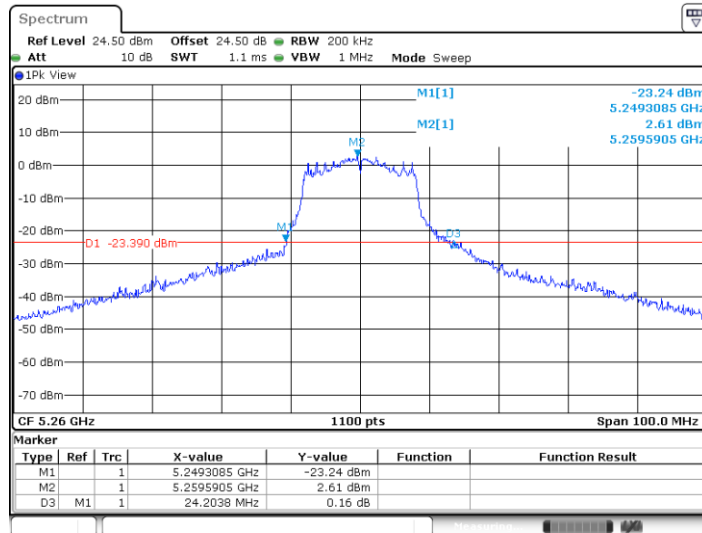


11A_5240



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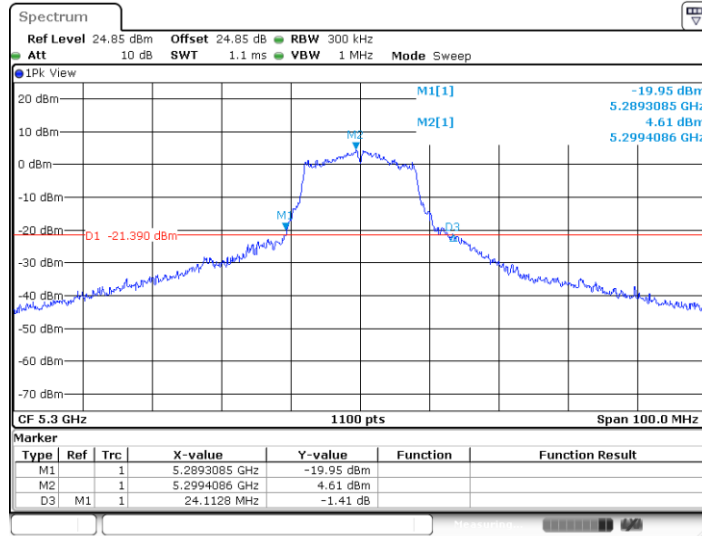
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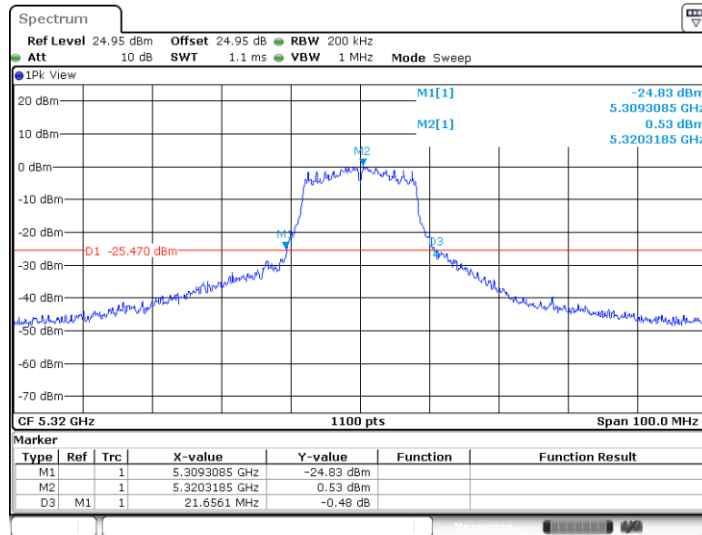


11A_5300



Date: 17.APR.2025 23:52:17

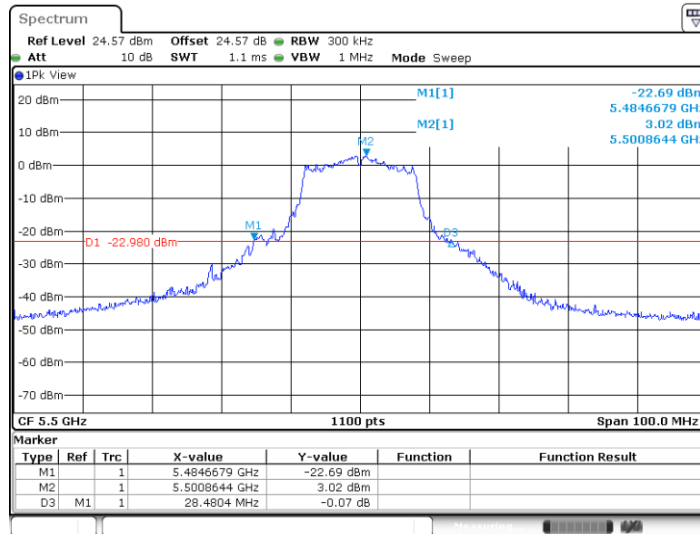
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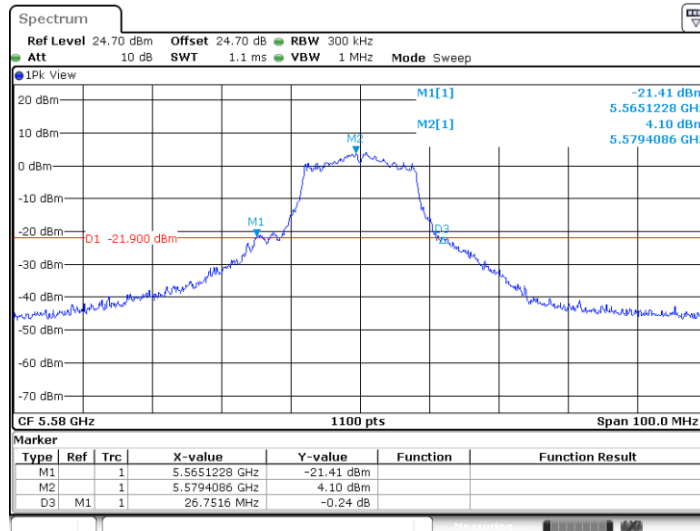


11A_5500



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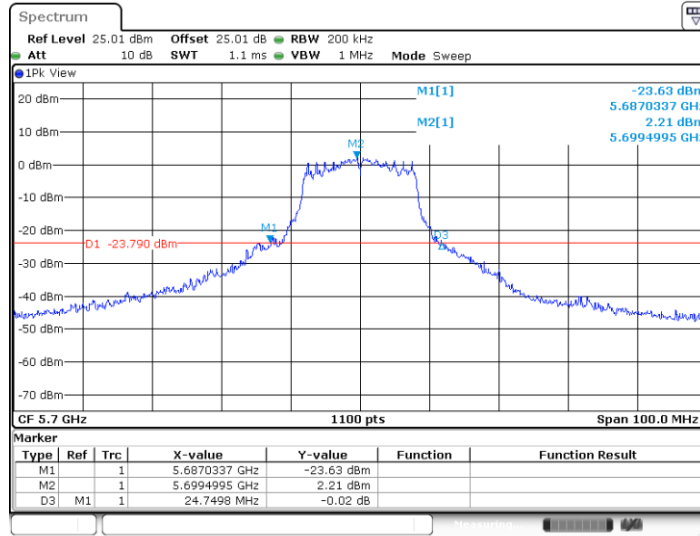
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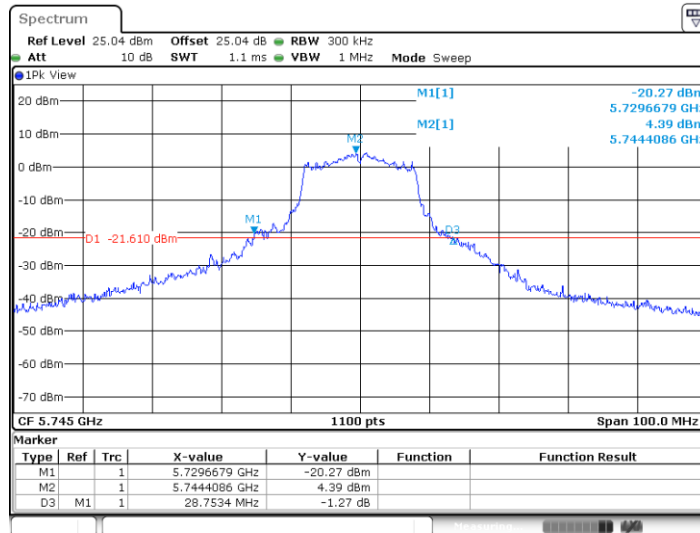


11A_5700



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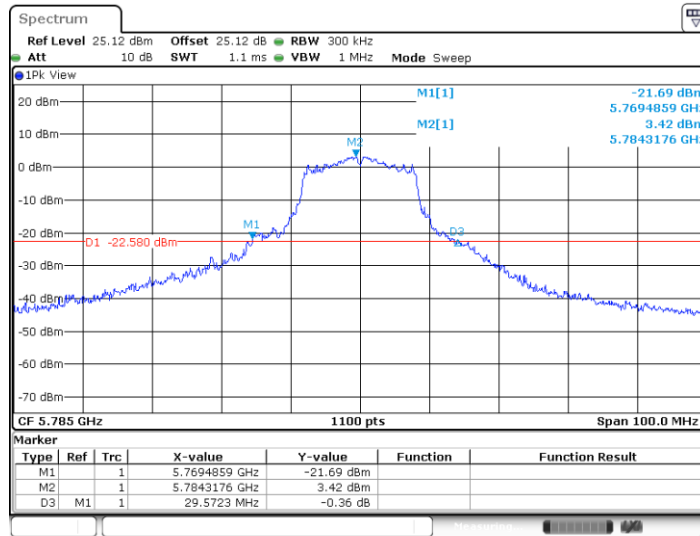
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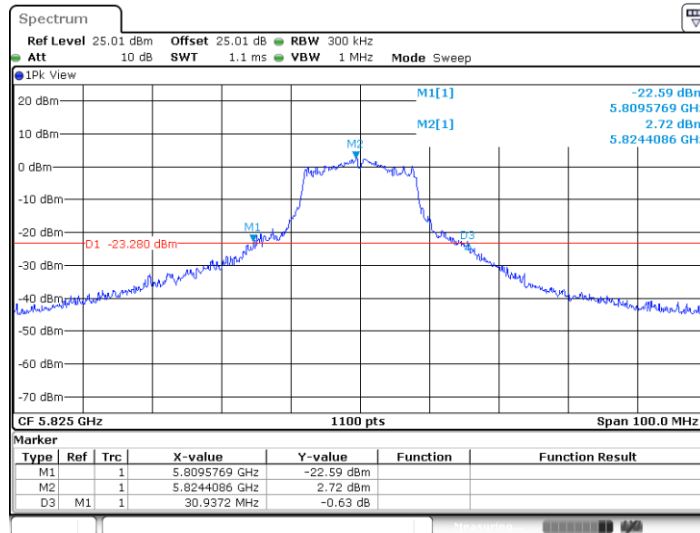


11A_5785



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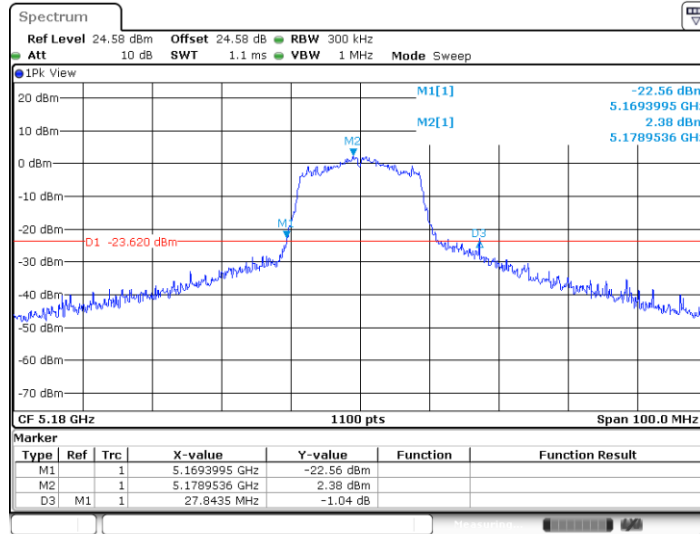
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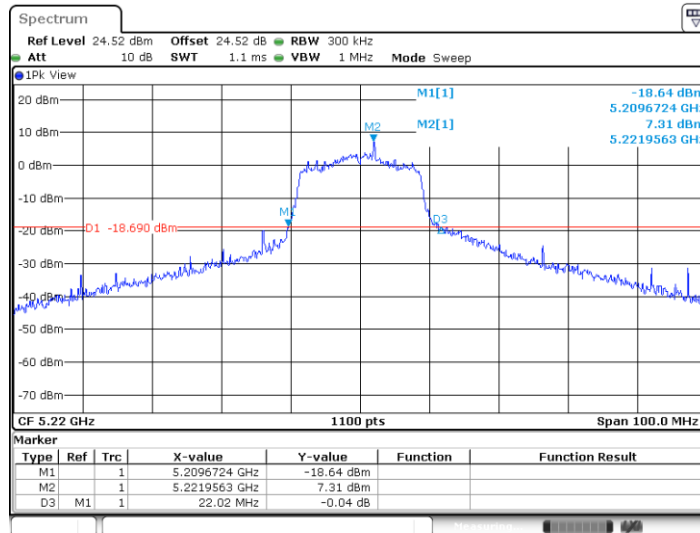


11AC20SISO_5180



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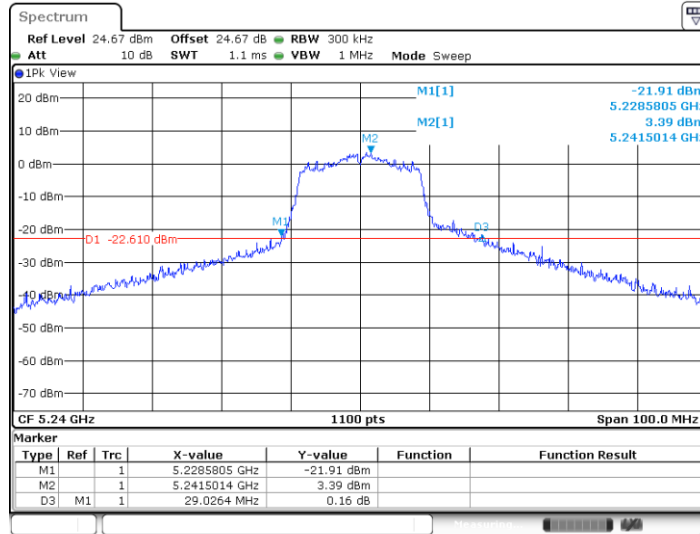
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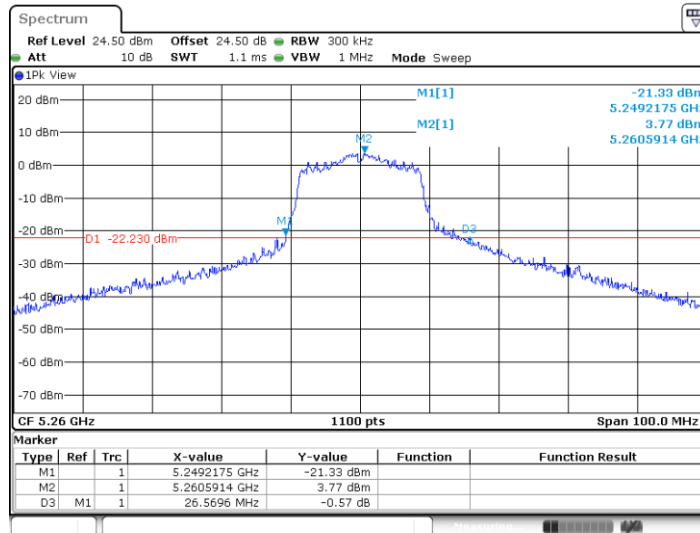


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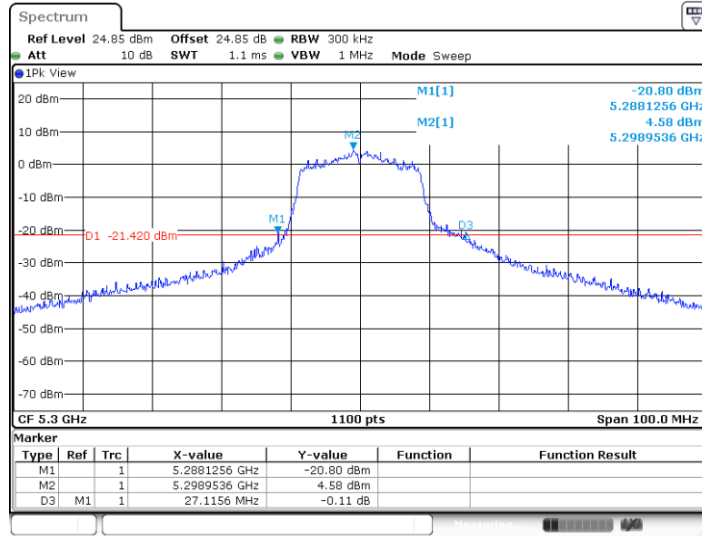
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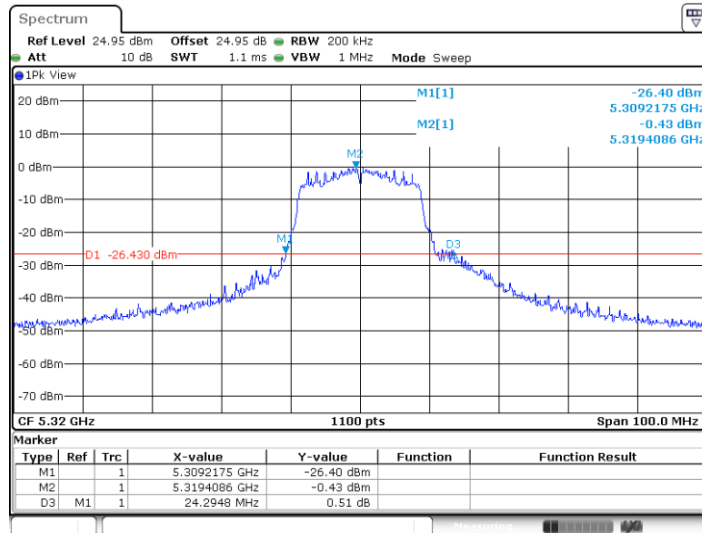


11AC20SISO_5300



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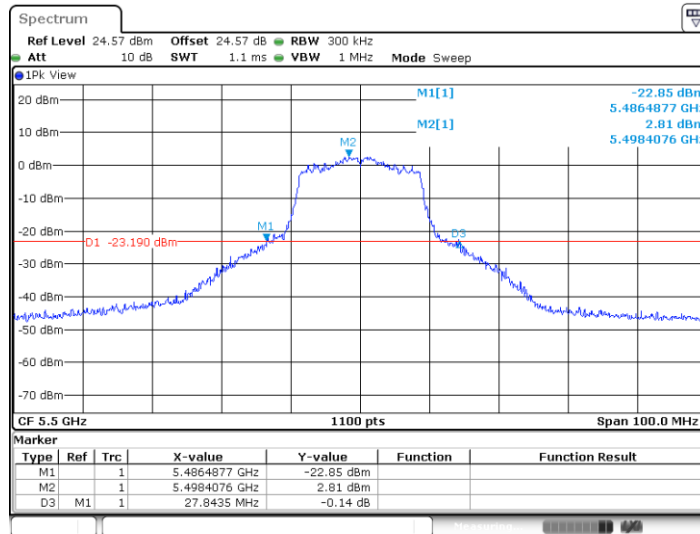
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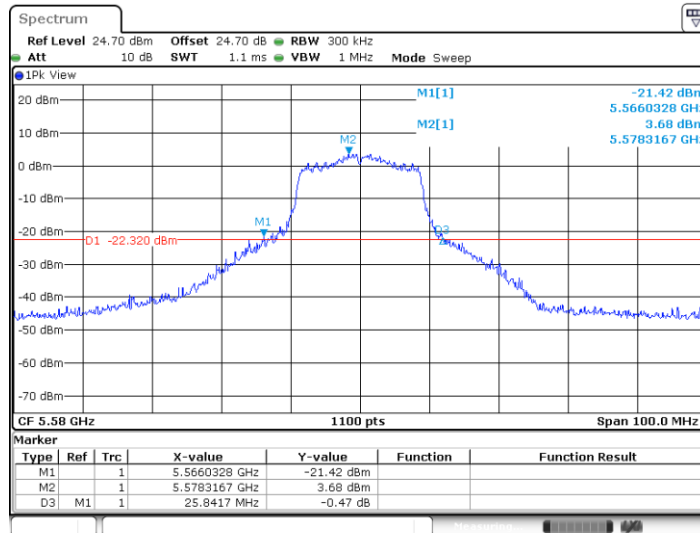


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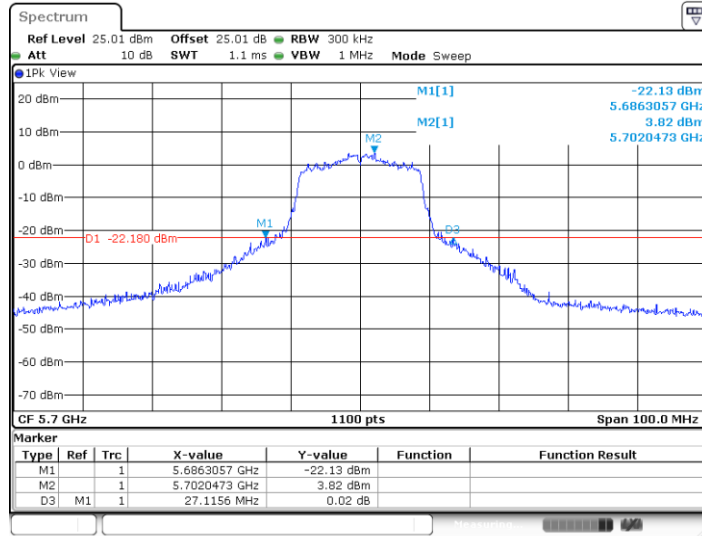
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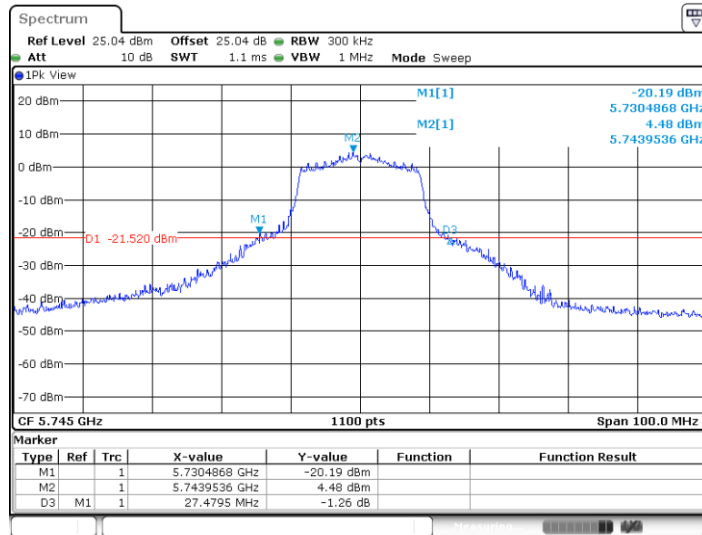


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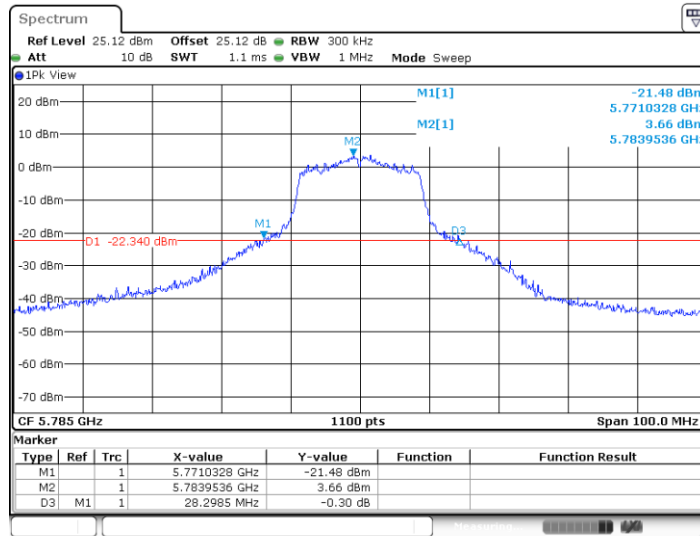
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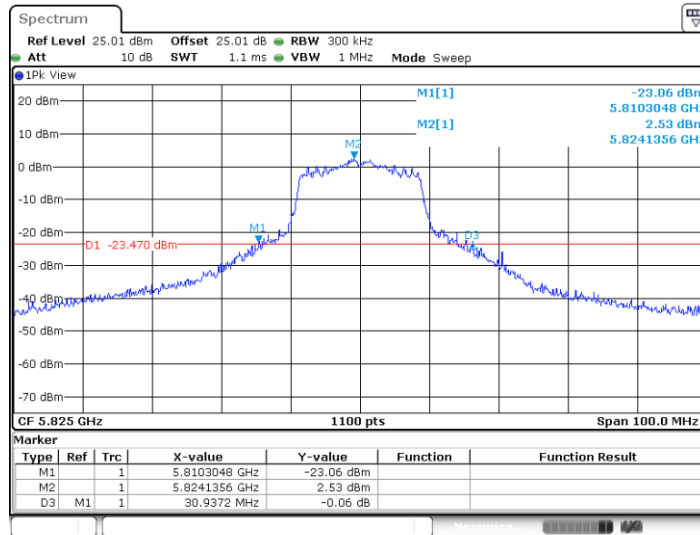
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11AC20SISO_5785

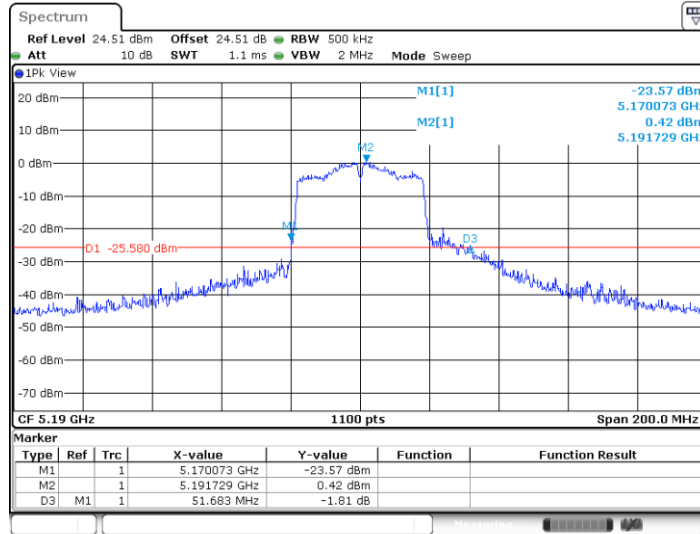


11AC20SISO_5825



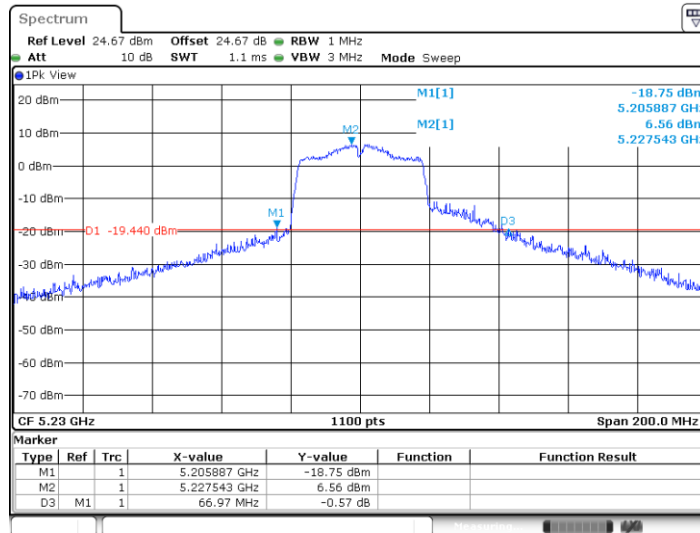


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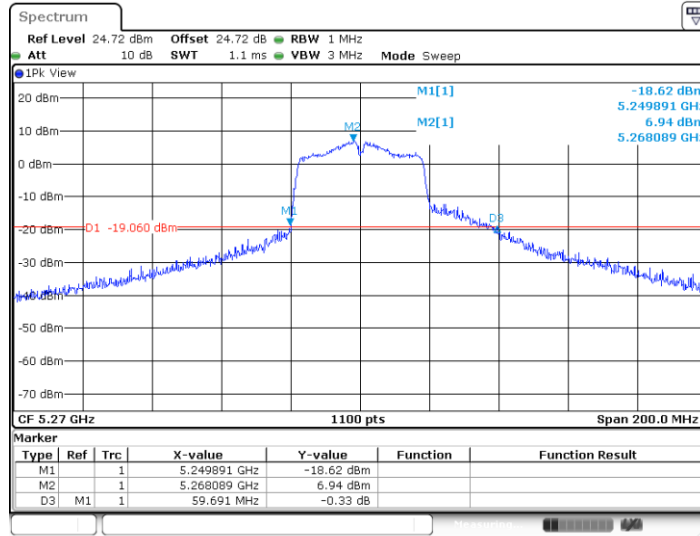
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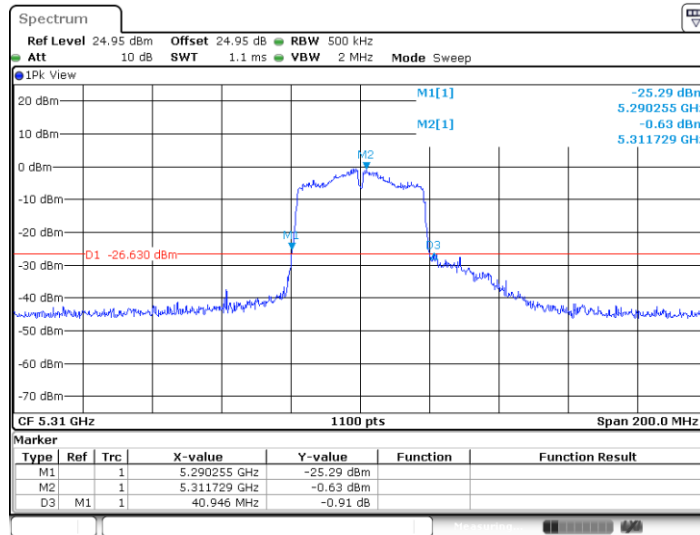
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11AC40SISO_5270

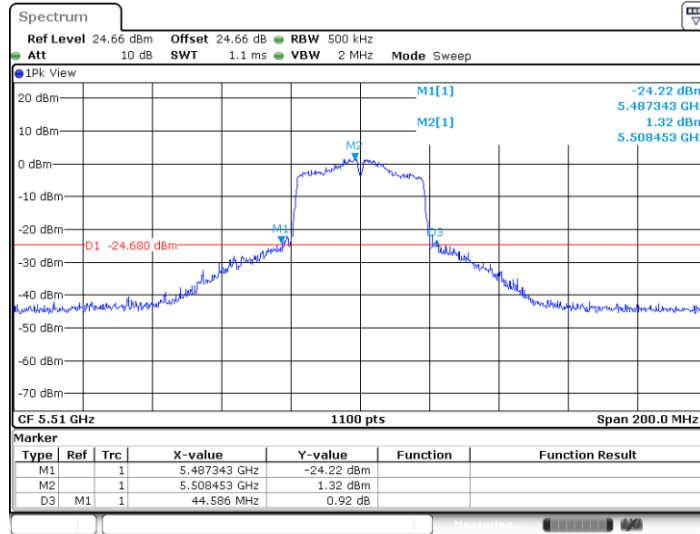


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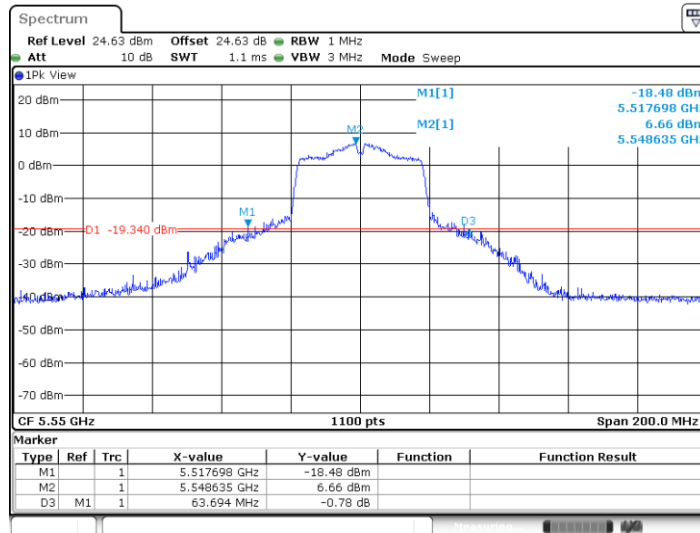




11AC40SISO_5510

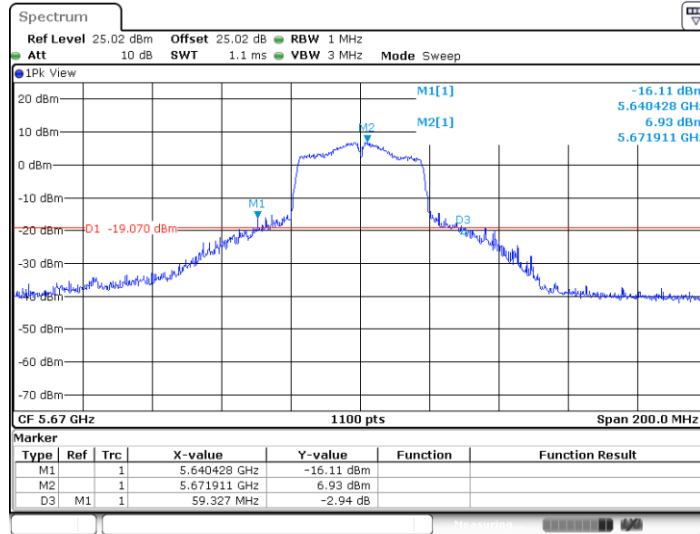


11AC40SISO_5550



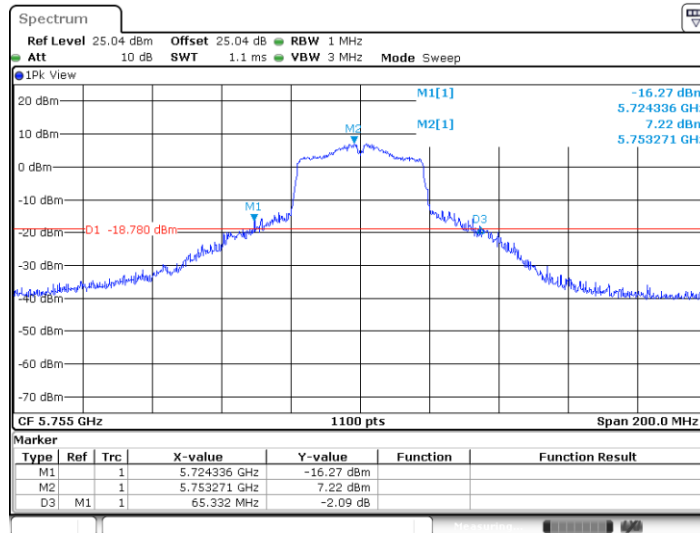


11AC40SISO_5670



Date: 18.APR.2025 00:41:37

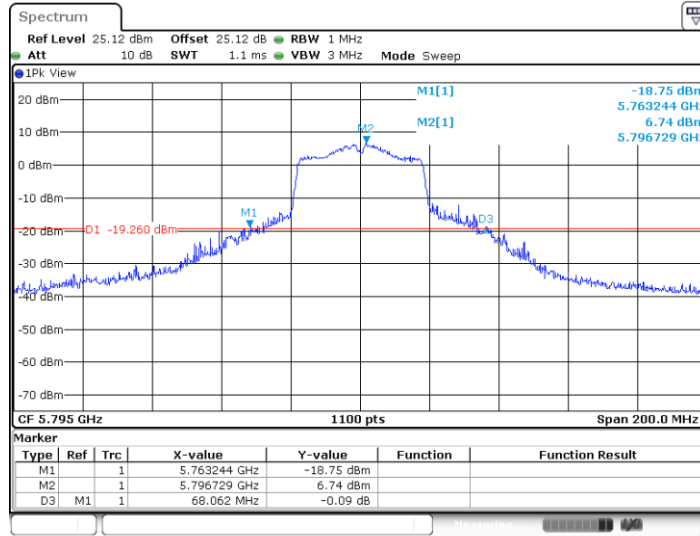
11AC40SISO_5755



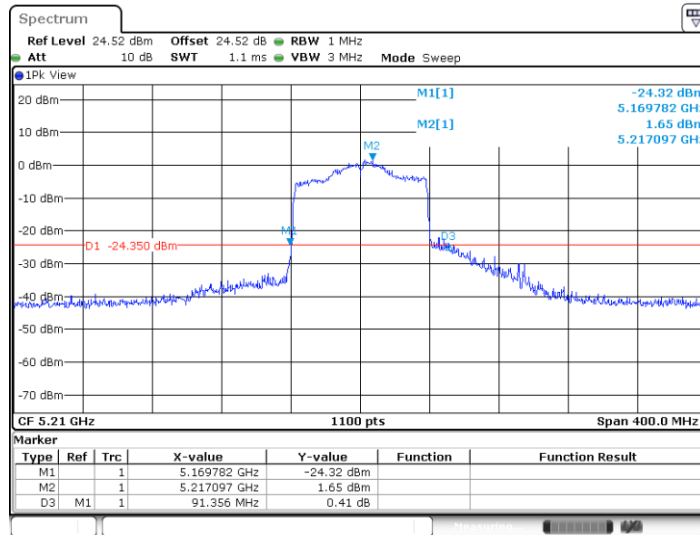
Date: 18.APR.2025 00:41:54



11AC40SISO_5795

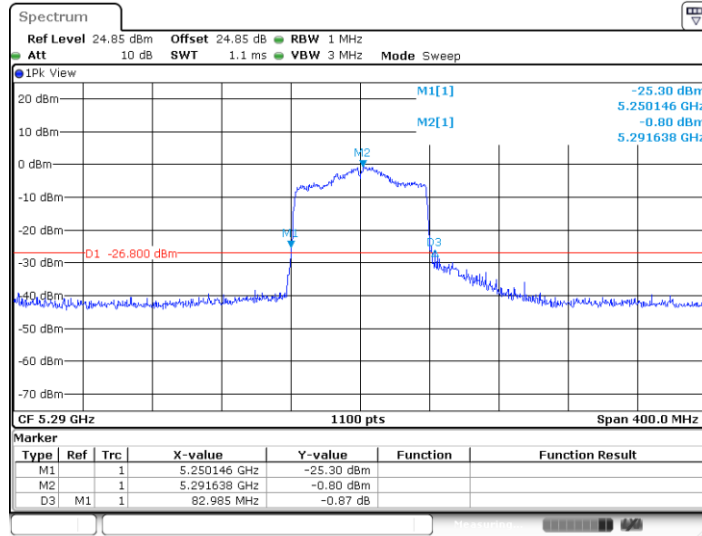


11AC80SISO_5210

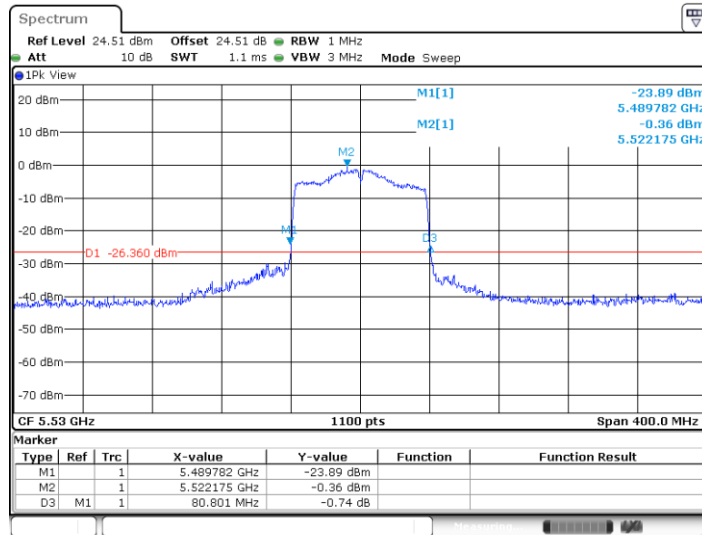




11AC80SISO_5290

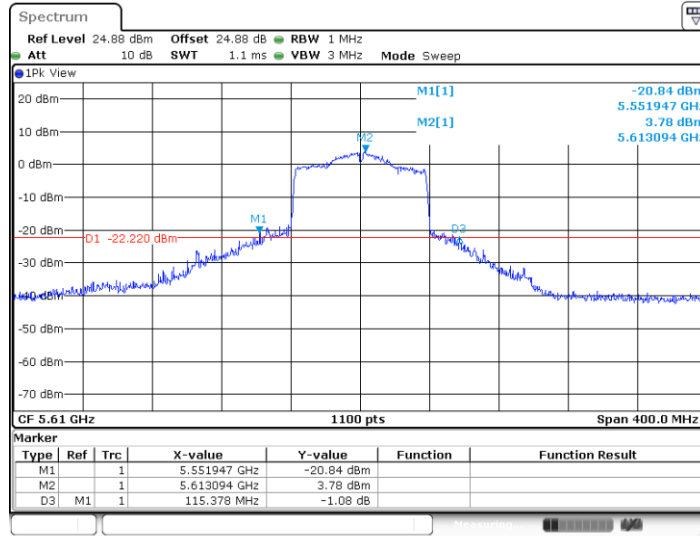


11AC80SISO_5530



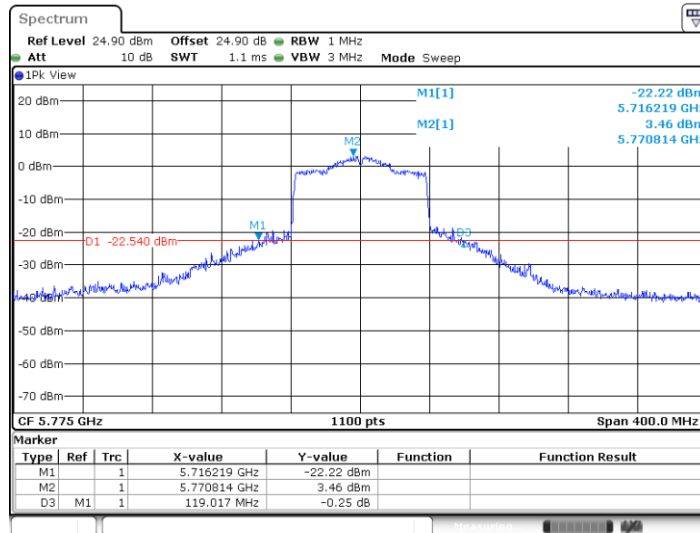


11AC80SISO_5610



Date: 17.APR.2025 01:26:11

11AC80SISO_5775



Date: 18.APR.2025 00:43:47

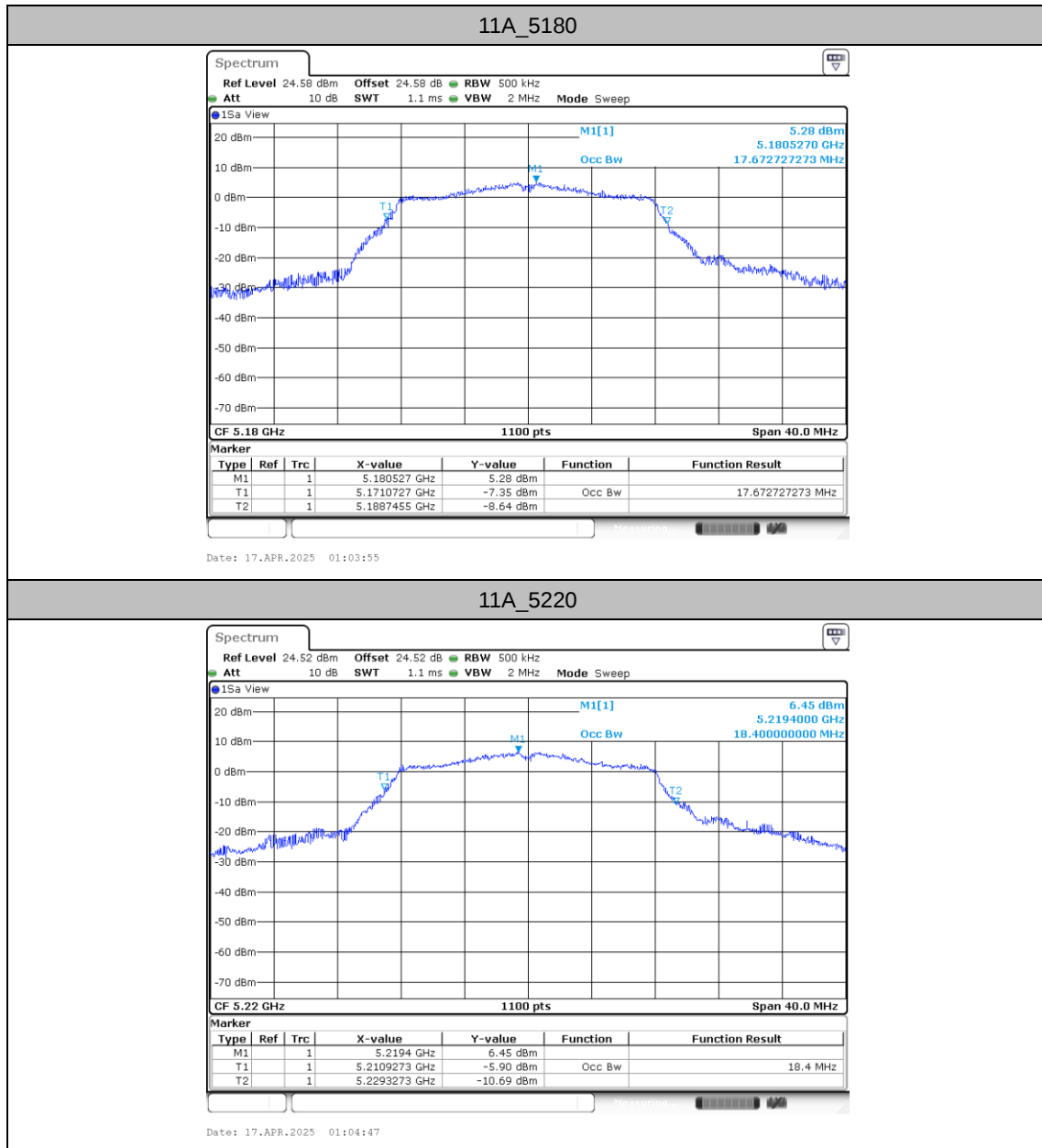
Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.673	5171.0727	5188.7455	---	---
		5220	18.4	5210.9273	5229.3273	---	---
		5240	18.873	5230.7818	5249.6545	---	---
		5260	18.364	5250.8545	5269.2182	---	---
		5300	18.327	5290.8182	5309.1455	---	---
		5320	17.964	5310.8182	5328.7818	---	---
		5500	18.436	5490.4545	5508.8909	---	---
		5580	18.4	5570.4909	5588.8909	---	---
		5700	18.218	5690.6364	5708.8545	---	---
		5745	19.018	5735.0909	5754.1091	---	---
		5785	19.309	5775.0182	5794.3273	---	---
		5825	19.709	5814.9091	5834.6182	---	---
11AC20SISO	Ant1	5180	18.618	5170.7091	5189.3273	---	---
		5220	19.273	5210.6000	5229.8727	---	---
		5240	19.6	5230.5273	5250.1273	---	---
		5260	18.945	5250.6364	5269.5818	---	---
		5300	18.909	5290.6000	5309.5091	---	---
		5320	18.655	5310.6364	5329.2909	---	---
		5500	18.909	5490.4182	5509.3273	---	---
		5580	18.836	5570.4182	5589.2545	---	---
		5700	18.873	5690.4545	5709.3273	---	---
		5745	19.236	5735.2000	5754.4364	---	---
		5785	19.455	5775.0909	5794.5455	---	---
		5825	19.673	5815.0909	5834.7636	---	---
11AC40SISO	Ant1	5190	36.582	5171.7818	5208.3636	---	---
		5230	40.509	5211.7091	5252.2182	---	---
		5270	38.182	5251.7818	5289.9636	---	---
		5310	36.291	5291.8545	5328.1455	---	---
		5510	36.582	5491.4909	5528.0727	---	---
		5550	36.873	5531.4182	5568.2909	---	---
		5670	37.091	5651.2727	5688.3636	---	---
		5755	38.182	5735.9818	5774.1636	---	---
		5795	38.036	5776.2727	5814.3091	---	---
11AC80SISO	Ant1	5210	76.073	5172.2545	5248.3273	---	---
		5290	75.636	5252.4000	5328.0364	---	---
		5530	75.491	5491.9636	5567.4545	---	---
		5610	76.364	5571.5273	5647.8909	---	---
		5775	76.8	5736.6727	5813.4727	---	---

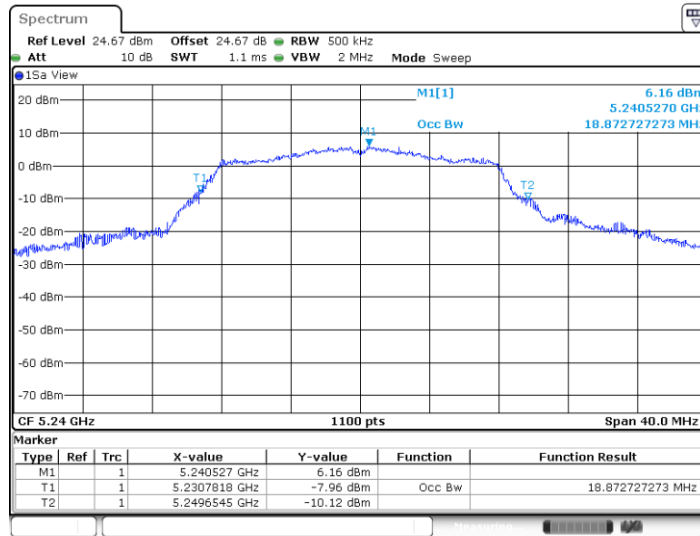


Test Graphs



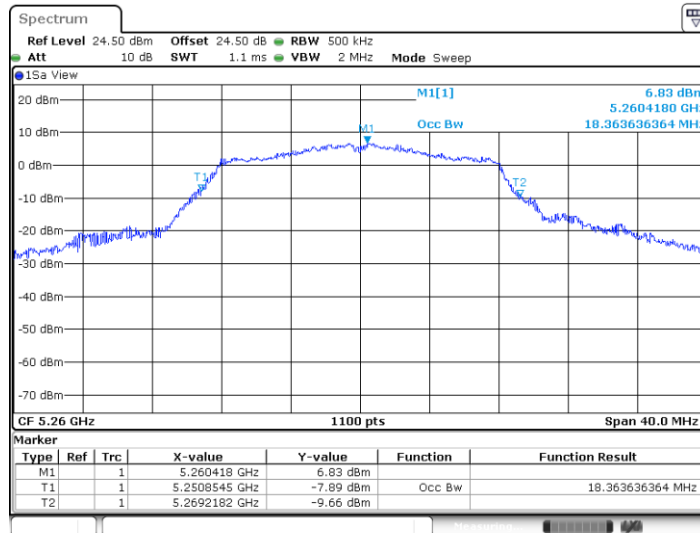


11A_5240



Date: 17.APR.2025 01:05:27

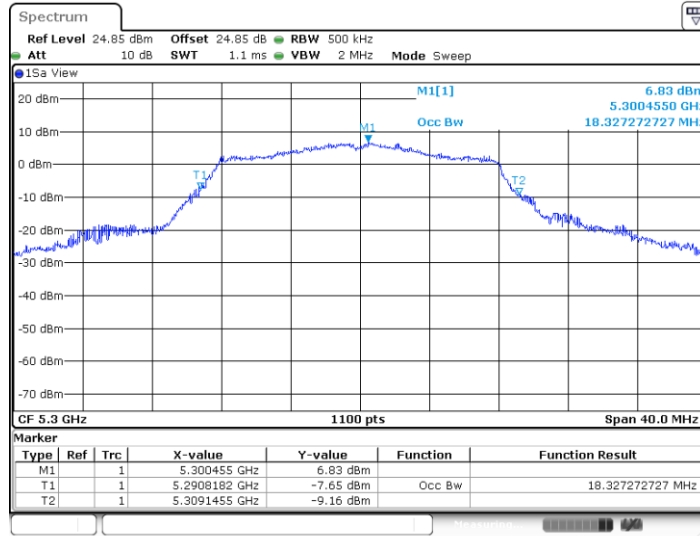
11A_5260



Date: 17.APR.2025 01:06:03

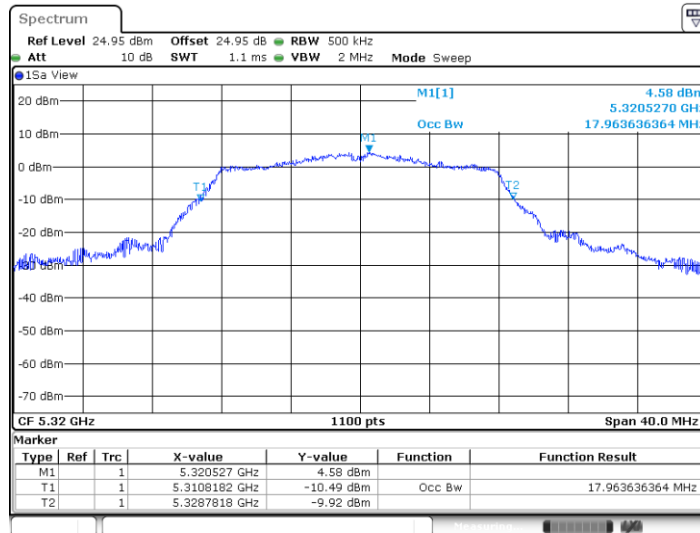


11A_5300



Date: 17.APR.2025 01:06:39

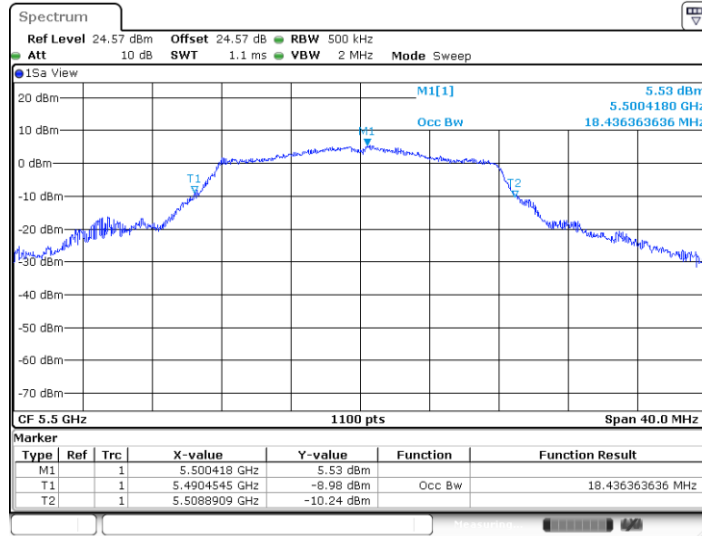
11A_5320



Date: 17.APR.2025 01:07:17

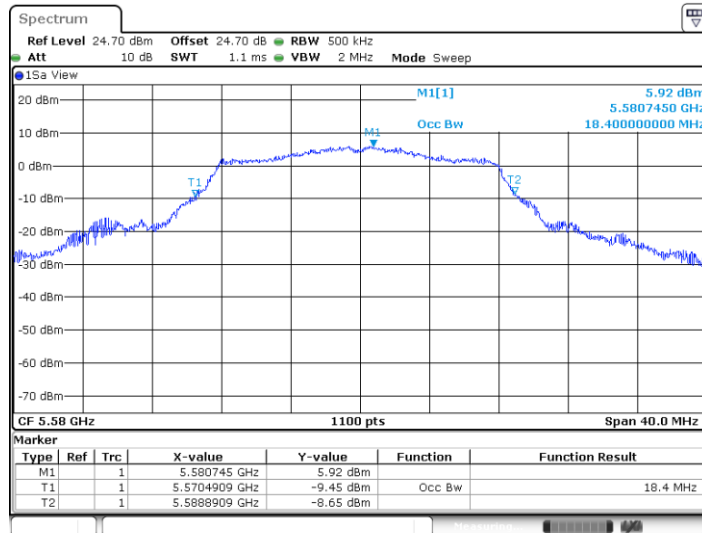


11A_5500



Date: 17.APR.2025 01:07:59

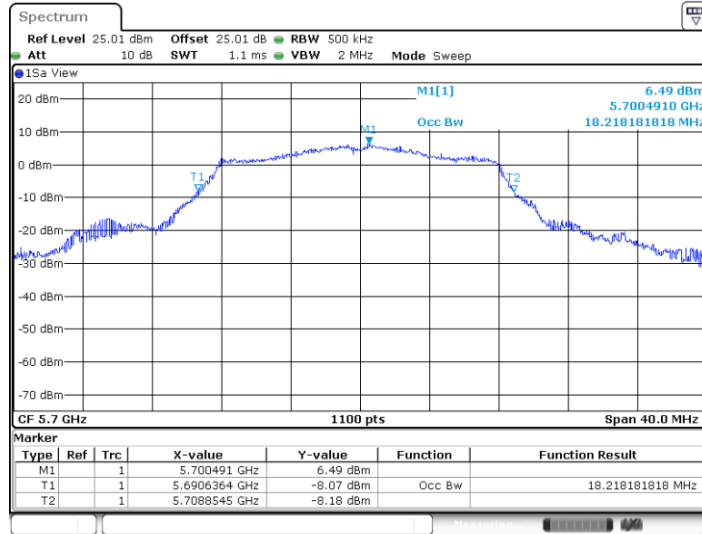
11A_5580



Date: 17.APR.2025 01:08:37

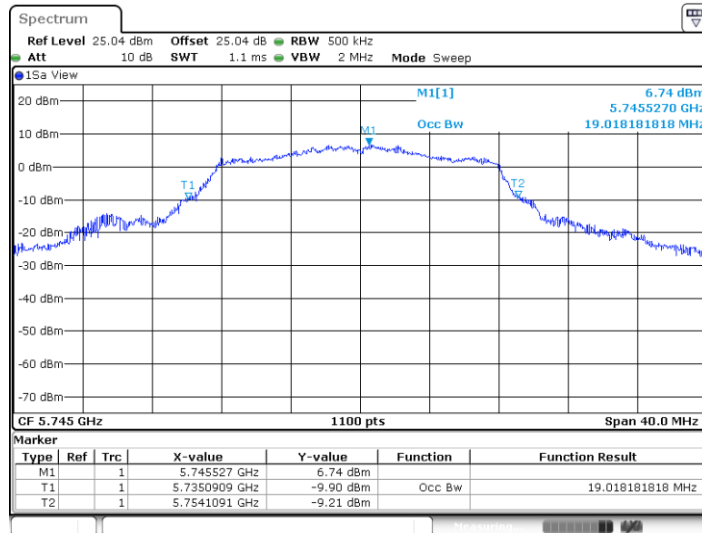


11A_5700



Date: 17.APR.2025 01:09:15

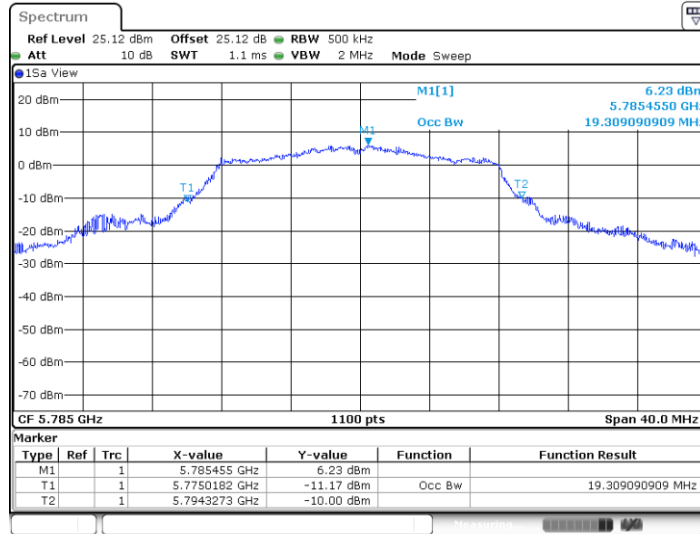
11A_5745



Date: 17.APR.2025 01:10:36

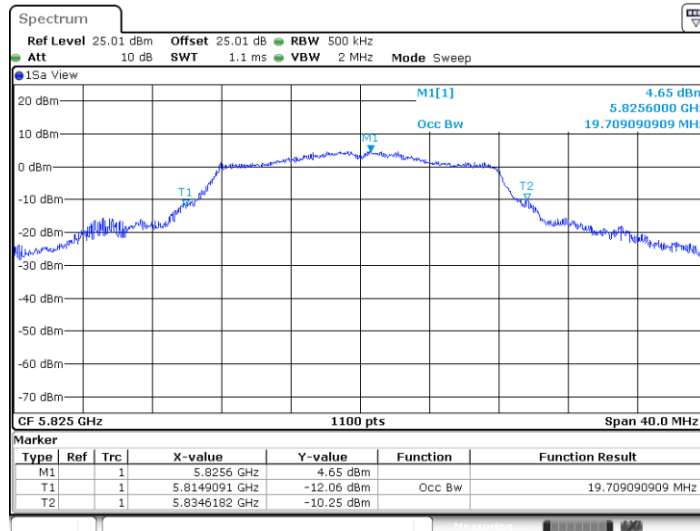


11A_5785



Date: 17.APR.2025 01:11:19

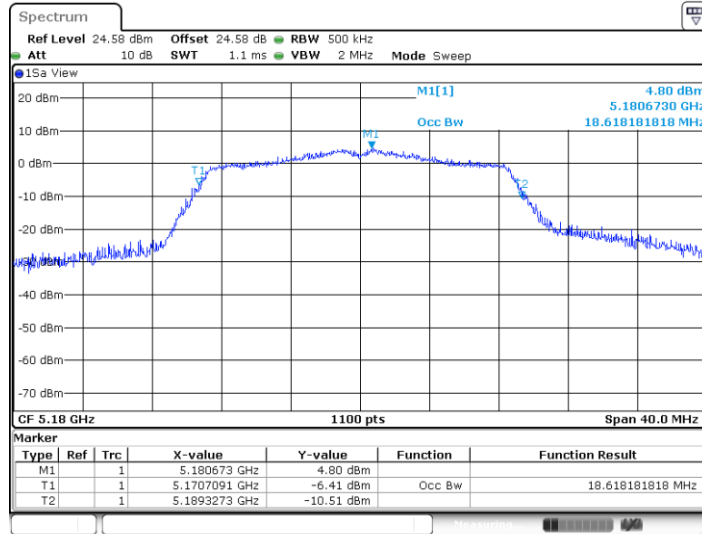
11A_5825



Date: 17.APR.2025 01:11:55

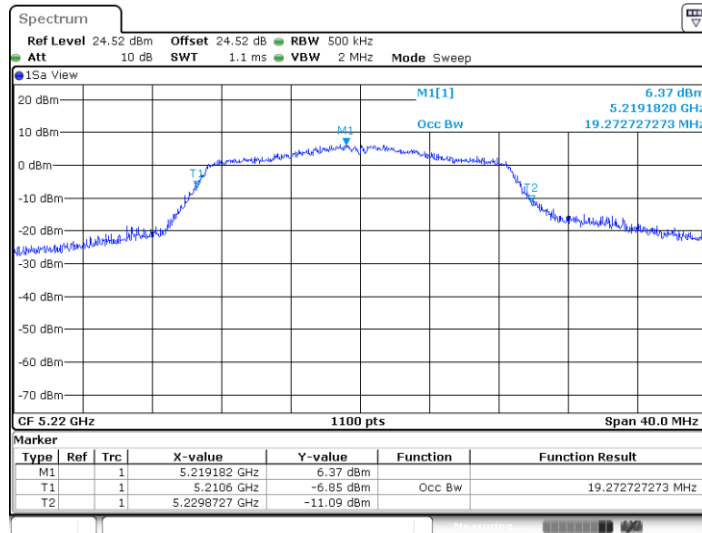


11AC20SISO_5180



Date: 17.APR.2025 01:12:23

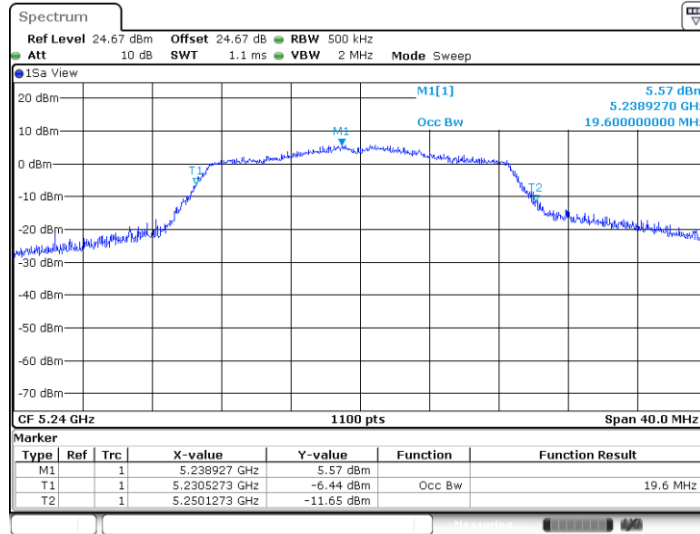
11AC20SISO_5220



Date: 17.APR.2025 01:13:02

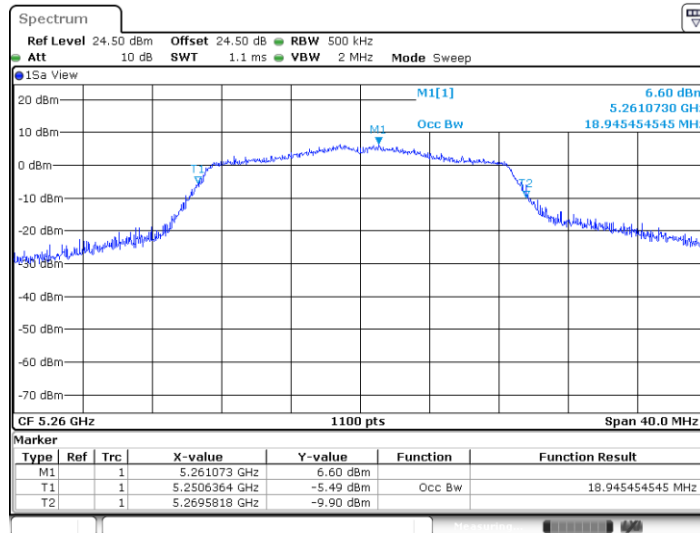


11AC20SISO_5240



Date: 17.APR.2025 01:13:29

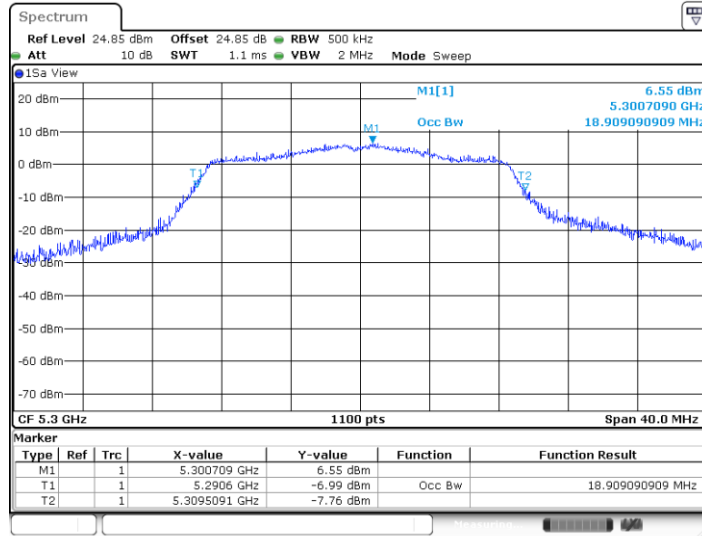
11AC20SISO_5260



Date: 17.APR.2025 01:13:55

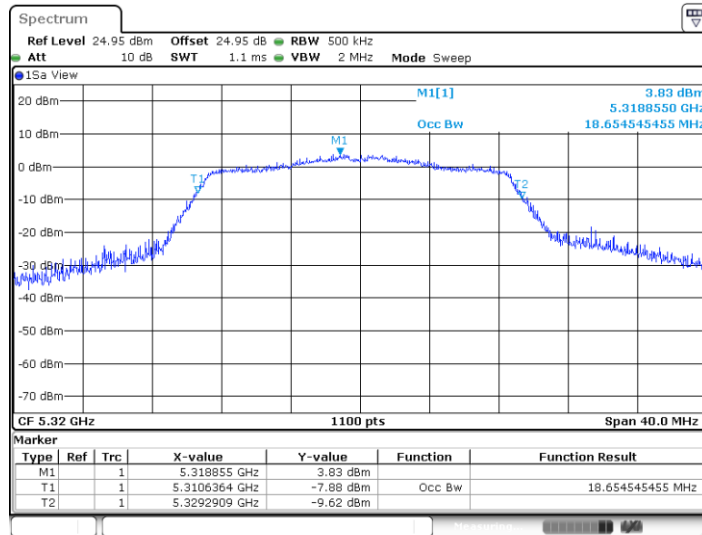


11AC20SISO_5300



Date: 17.APR.2025 01:14:22

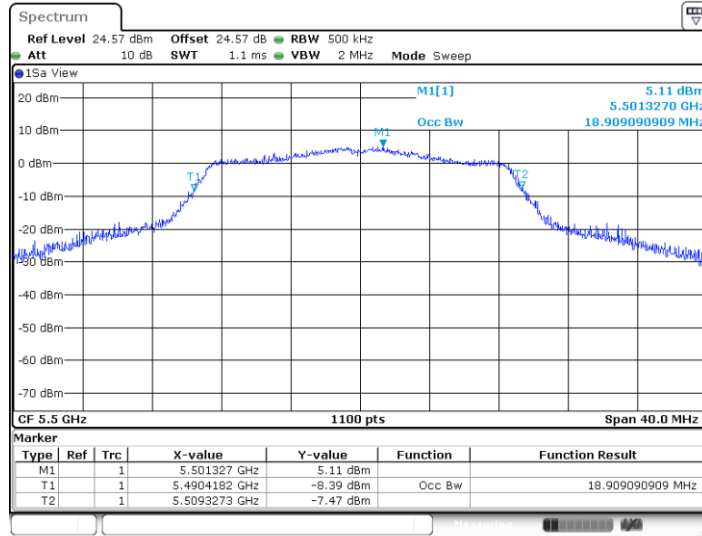
11AC20SISO_5320



Date: 17.APR.2025 01:15:28

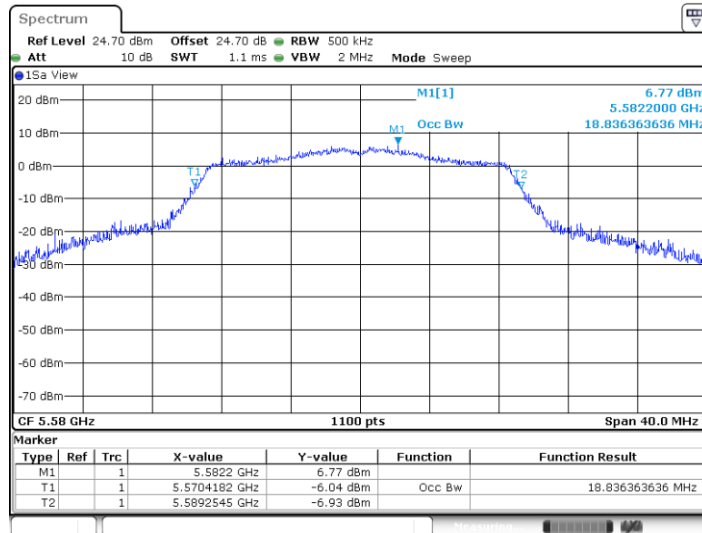


11AC20SISO_5500



Date: 17.APR.2025 01:15:55

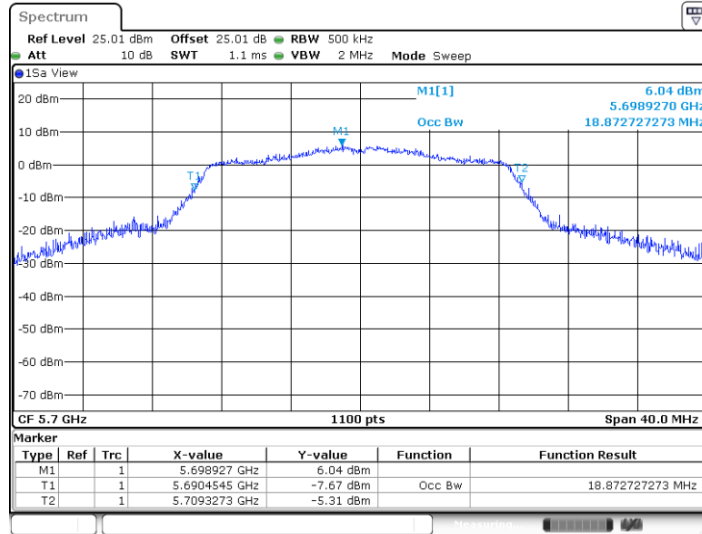
11AC20SISO_5580



Date: 17.APR.2025 01:16:22

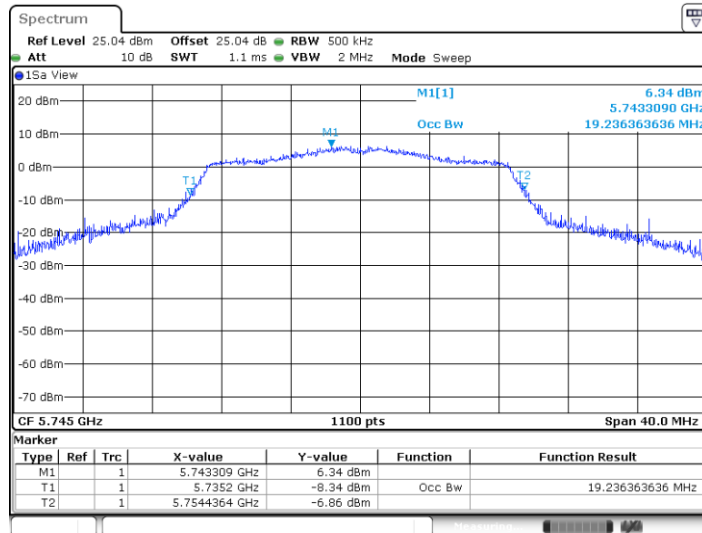


11AC20SISO_5700



Date: 17.APR.2025 01:16:48

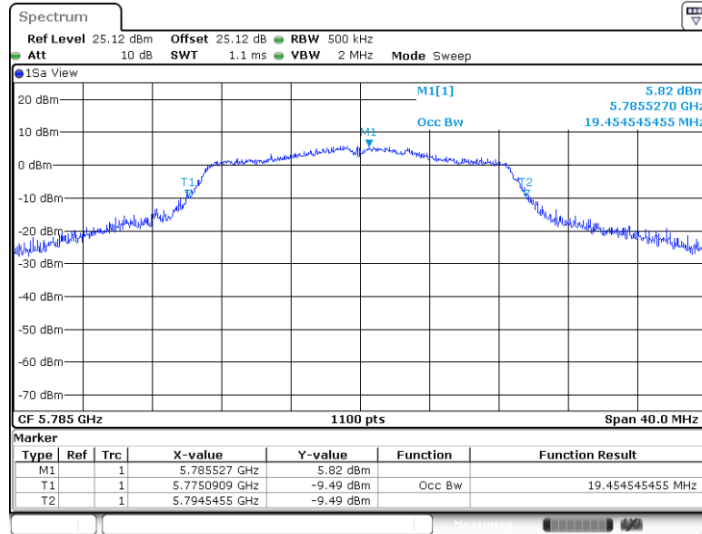
11AC20SISO_5745



Date: 17.APR.2025 01:17:58

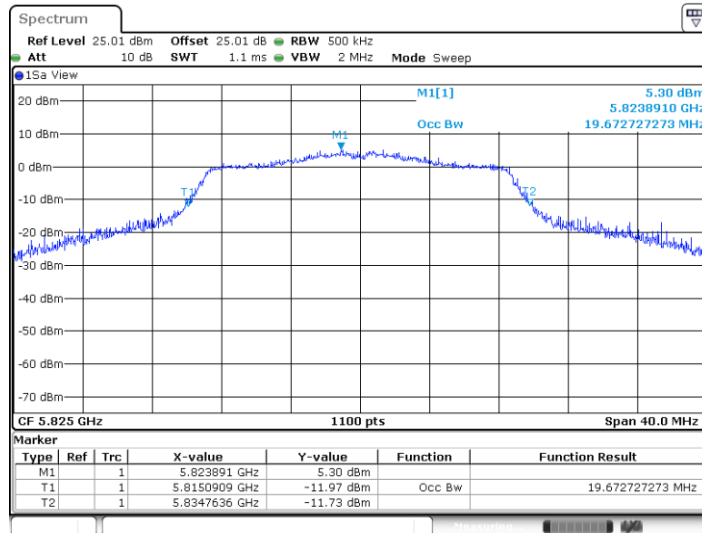


11AC20SISO_5785



Date: 17.APR.2025 01:18:35

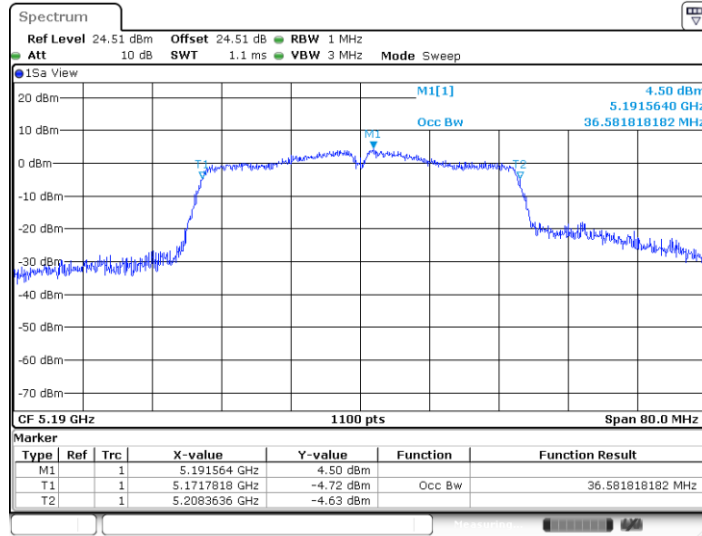
11AC20SISO_5825



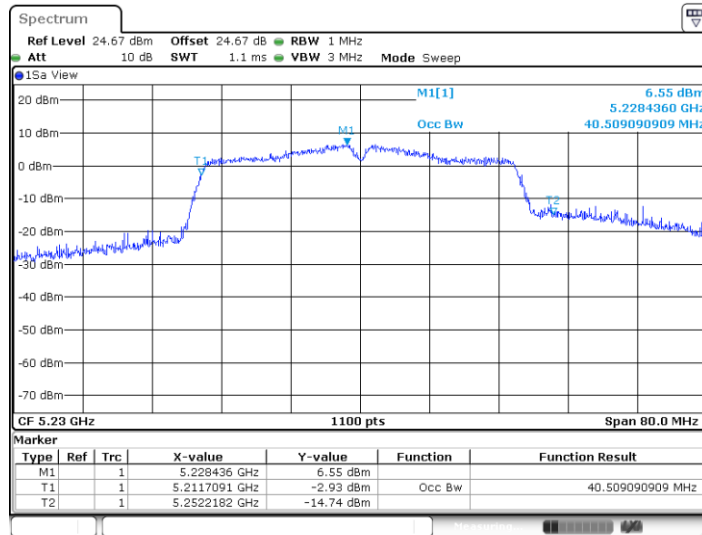
Date: 17.APR.2025 01:19:08



11AC40SISO_5190

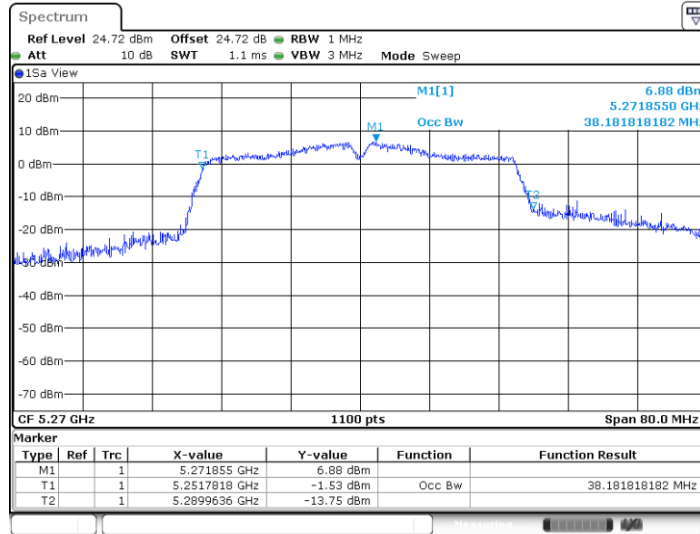


11AC40SISO_5230



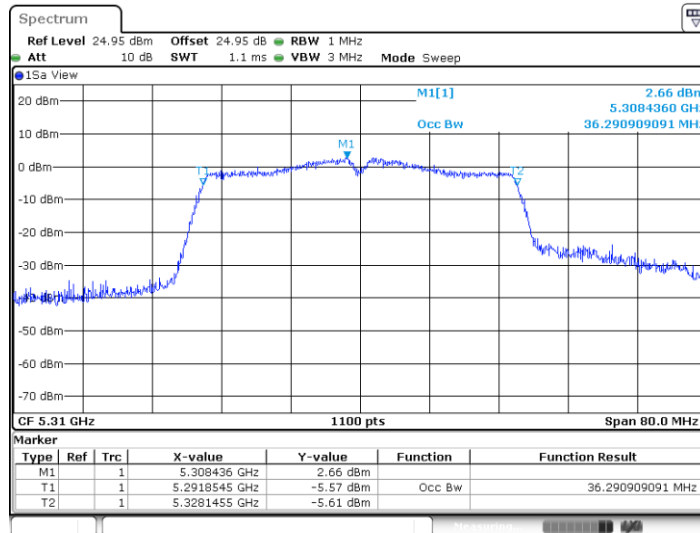


11AC40SISO_5270



Date: 17.APR.2025 01:20:42

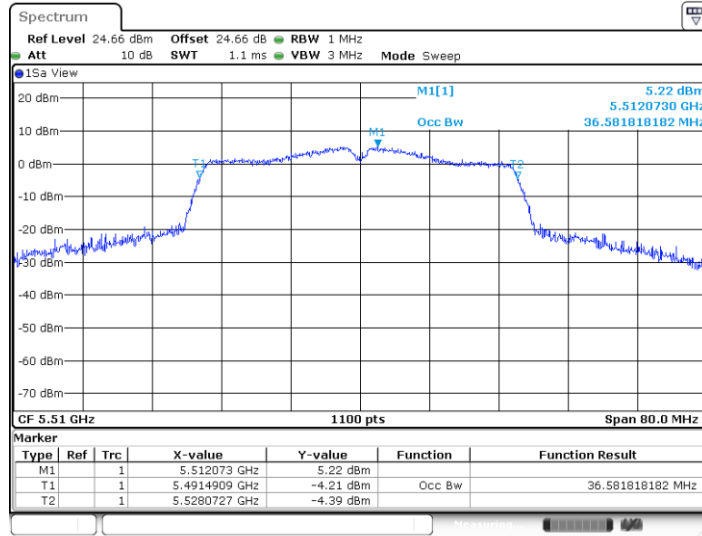
11AC40SISO_5310



Date: 17.APR.2025 01:21:08

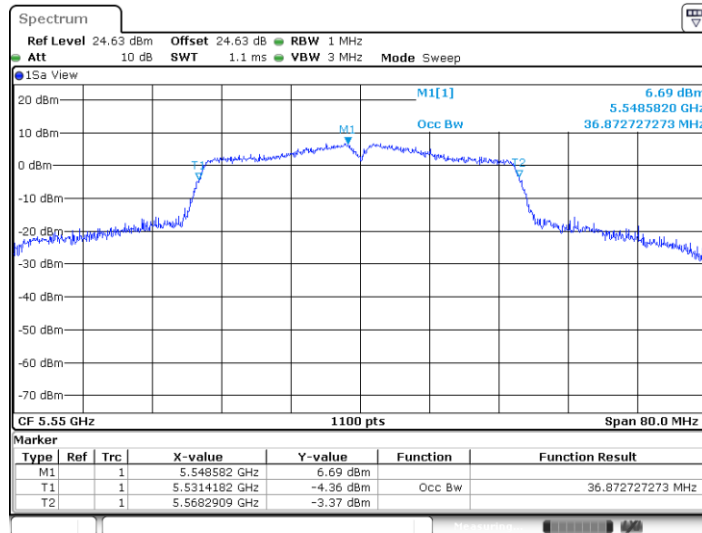


11AC40SISO_5510



Date: 17.APR.2025 01:21:38

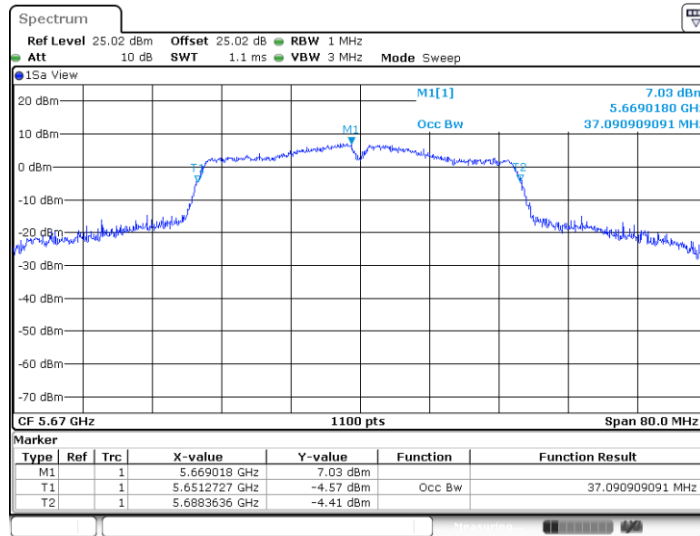
11AC40SISO_5550



Date: 17.APR.2025 01:22:04

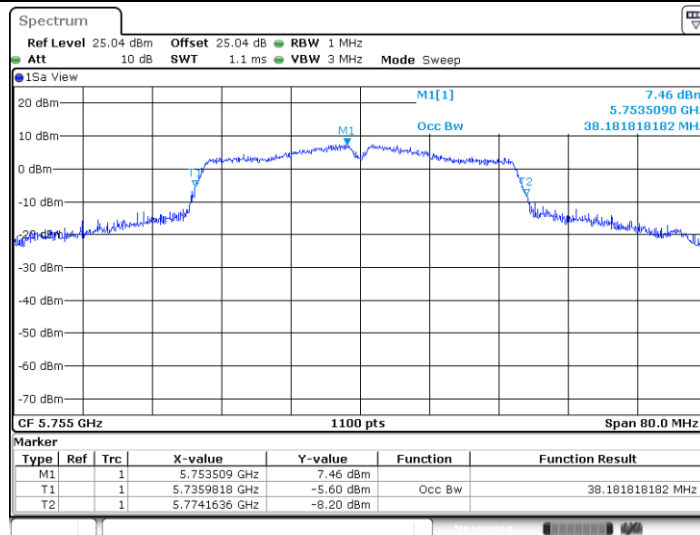


11AC40SISO_5670



Date: 17.APR.2025 01:22:31

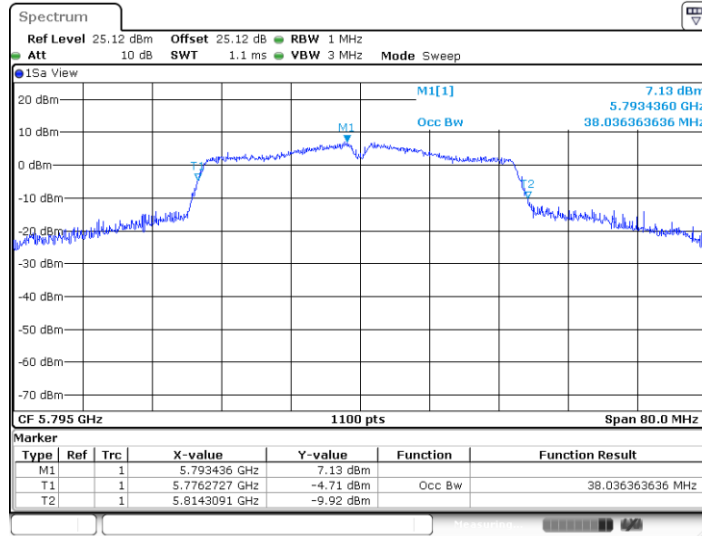
11AC40SISO_5755



Date: 17.APR.2025 01:23:43

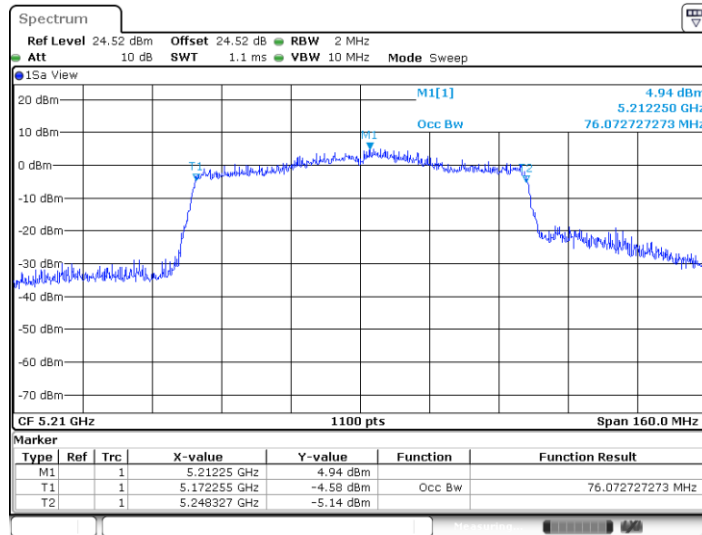


11AC40SISO_5795



Date: 17.APR.2025 01:24:16

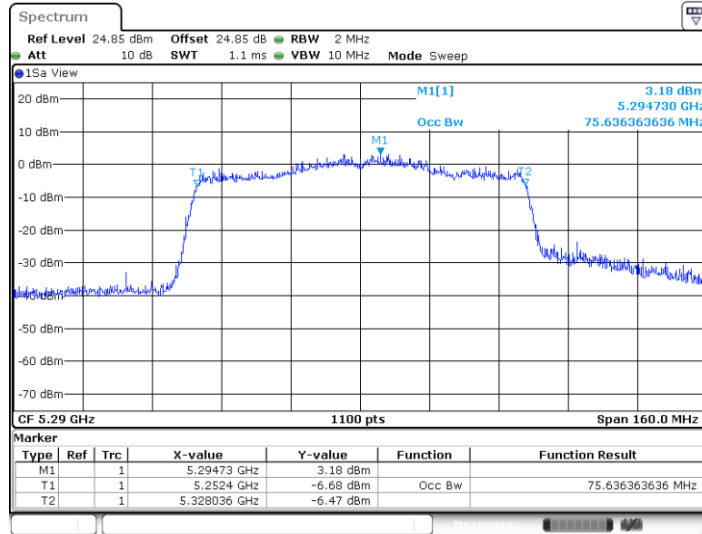
11AC80SISO_5210



Date: 17.APR.2025 01:24:46

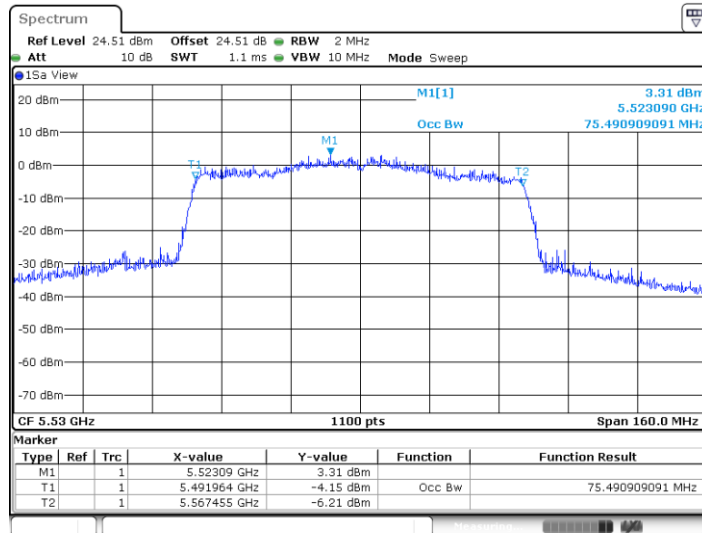


11AC80SISO_5290



Date: 17.APR.2025 01:25:25

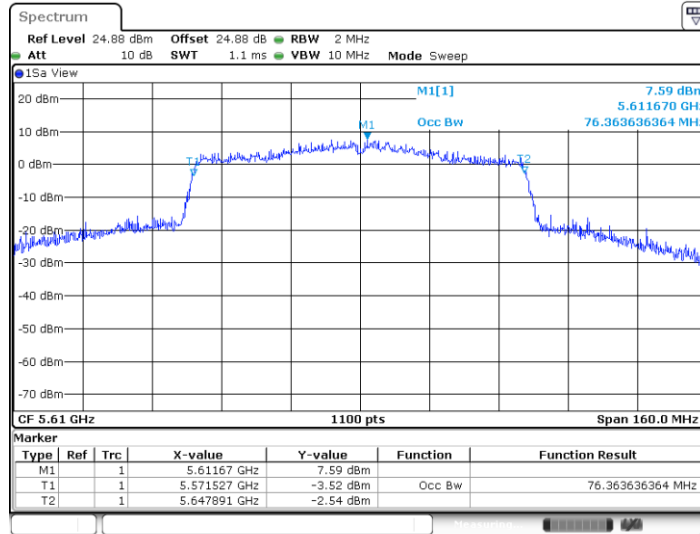
11AC80SISO_5530



Date: 17.APR.2025 01:25:52

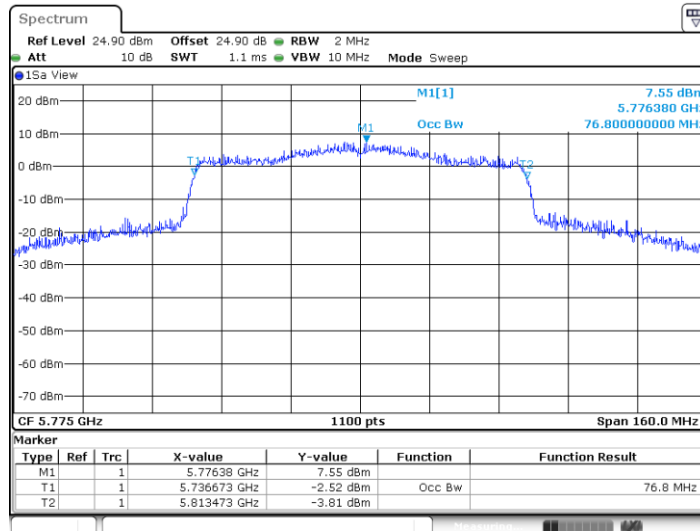


11AC80SISO_5610



Date: 17.APR.2025 01:26:19

11AC80SISO_5775



Date: 17.APR.2025 01:27:30



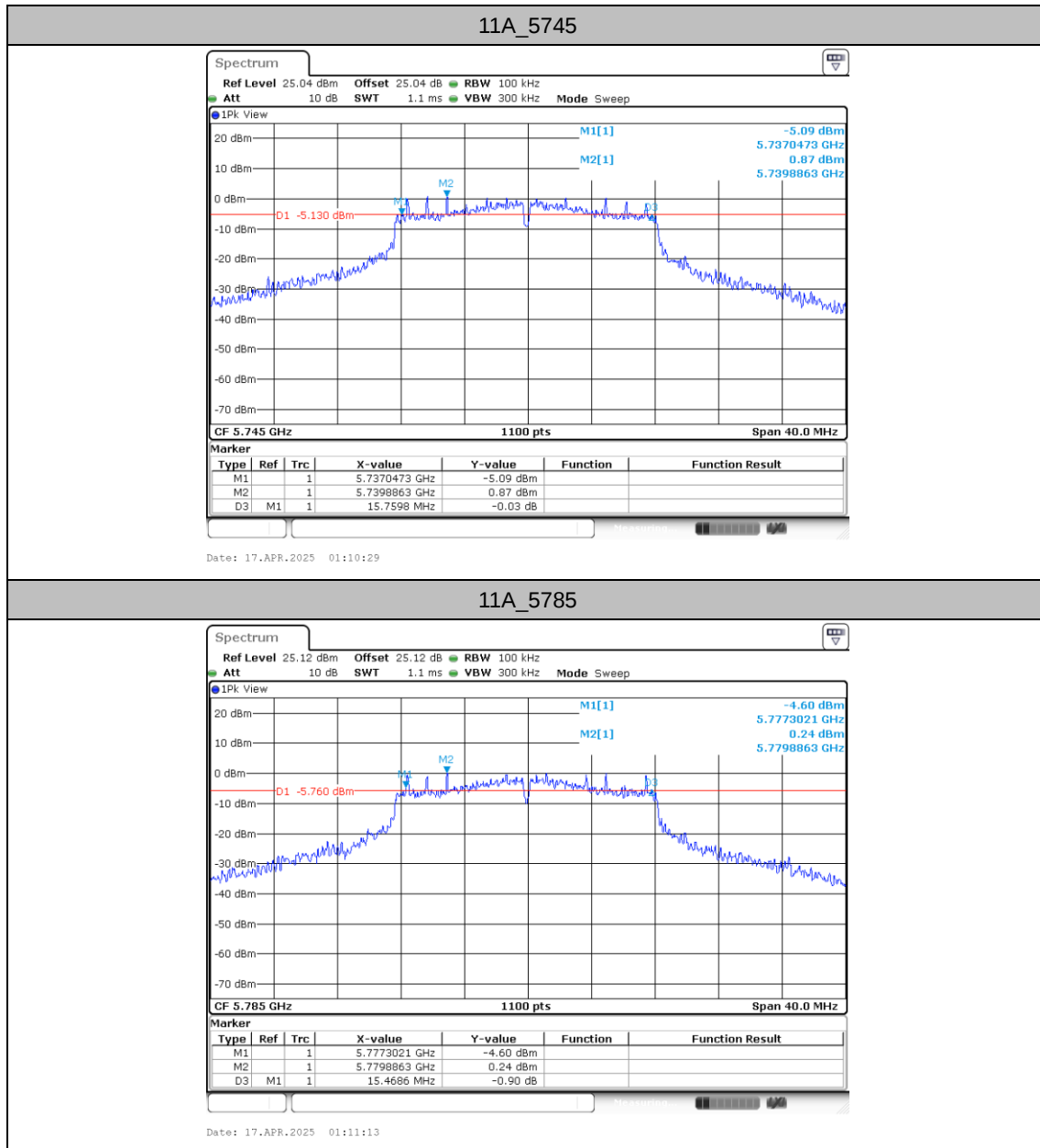
Min emission bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.76	5737.05	5752.81	0.5	PASS
		5785	15.47	5777.30	5792.77	0.5	PASS
		5825	15.72	5817.05	5832.77	0.5	PASS
11AC20SISO	Ant1	5745	15.91	5736.76	5752.66	0.5	PASS
		5785	16.27	5776.50	5792.77	0.5	PASS
		5825	15.72	5817.30	5833.03	0.5	PASS
11AC40SISO	Ant1	5755	35.16	5737.35	5772.51	0.5	PASS
		5795	35.16	5777.35	5812.51	0.5	PASS
11AC80SISO	Ant1	5775	75.12	5737.37	5812.49	0.5	PASS

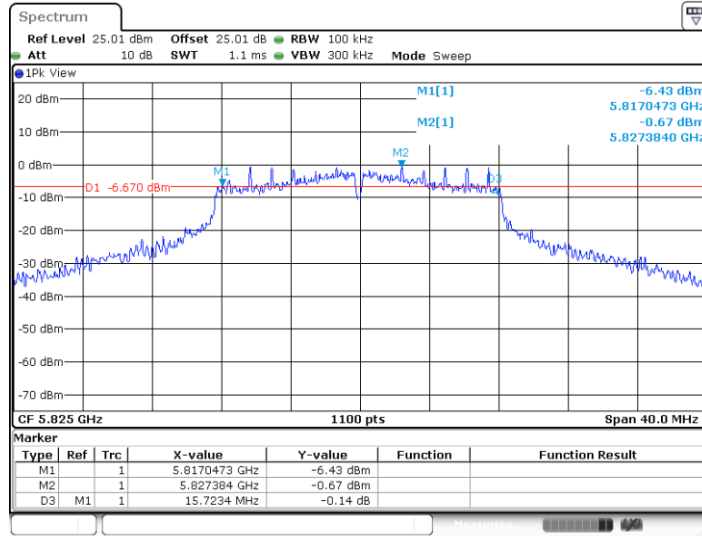


Test Graphs



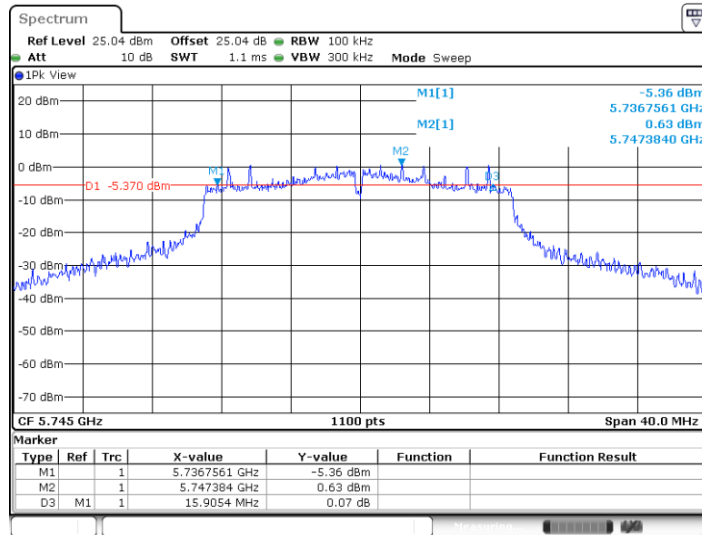


11A_5825



Date: 17.APR.2025 01:11:47

11AC20SISO_5745



Date: 17.APR.2025 01:17:52