FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2363-2, XT2363-1
FCC ID	:	IHDT56AQ1
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Sep. 28, 2023 ~ Oct. 23, 2023

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)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR392114E	Rev. 01	Initial issue of report	Oct. 31, 2023

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 3.30 dB at 5149.990 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Pass	Under limit 10.16 dB at 10.963 MHz
3.6	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/manufacturer 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

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2363-2, XT2363-1
FCC ID	IHDT56AQ1
IMEI Code	Conducted: 350735340022877/350735340022885 Conduction: 350735340031993/350735340032009 Radiation: 350735340017877/350735340017885
HW Version	DVT2
SW Version	UUG34.30
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The two model name is only for different market segment purpose.

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 ~ 5720 MHz; 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 18.19 dBm / 0.0659 W 802.11n HT20 : 17.99 dBm / 0.0630 W 802.11n HT40 : 16.48 dBm / 0.0445 W 802.11ac VHT20: 18.00 dBm / 0.0631 W 802.11ac VHT40: 15.59 dBm / 0.0362 W 802.11ac VHT80: 12.71 dBm / 0.0187 W **<5260 MHz ~ 5320 MHz>** 802.11a : 18.65 dBm / 0.0733 W 802.11n HT20 : 18.50 dBm / 0.0708 W 802.11n HT40 : 16.89 dBm / 0.0489 W 802.11ac VHT20: 18.51 dBm / 0.0710 W 802.11ac VHT40: 15.99 dBm / 0.0397 W 802.11ac VHT80: 13.83 dBm / 0.0242 W **<5500 MHz ~ 5720 MHz >** 802.11a : 18.66 dBm / 0.0735 W 802.11n HT20 : 18.55 dBm / 0.0716 W 802.11n HT40 : 16.93 dBm / 0.0493 W 802.11ac VHT20: 18.56 dBm / 0.0718 W 802.11ac VHT40: 15.99 dBm / 0.0397 W 802.11ac VHT80: 14.65 dBm / 0.0292 W **<5745 MHz ~ 5825 MHz>** 802.11a : 18.59 dBm / 0.0723 W 802.11n HT20 : 18.49 dBm / 0.0706 W 802.11n HT40 : 16.78 dBm / 0.0476 W 802.11ac VHT20: 18.50 dBm / 0.0708 W 802.11ac VHT40: 15.96 dBm / 0.0394 W 802.11ac VHT80: 14.63 dBm / 0.0290 W
99% Occupied Bandwidth	**<5180 MHz ~ 5240 MHz>** 802.11a : 17.263 MHz 802.11n HT20 : 18.342 MHz 802.11n HT40 : 36.603 MHz 802.11ac VHT80 : 76.244 MHz **<5260 MHz ~ 5320 MHz>** 802.11a : 17.223 MHz 802.11n HT20 : 18.382 MHz 802.11n HT40 : 36.603 MHz 802.11ac VHT80 : 76.084 MHz **<5500 MHz ~ 5720 MHz>** 802.11a : 17.303 MHz 802.11n HT20 : 18.342 MHz 802.11n HT40 : 36.603 MHz 802.11ac VHT80 : 76.244 MHz **<5745 MHz ~ 5825 MHz>** 802.11a : 17.303 MHz 802.11n HT20 : 18.382 MHz 802.11n HT40 : 36.523 MHz 802.11ac VHT80 : 76.084 MHz

Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>**: IFA Antenna with gain -0.50 dBi **<5260 MHz ~ 5320 MHz>**: IFA Antenna with gain -0.50 dBi **<5500 MHz ~ 5720 MHz>**: IFA Antenna with gain -1.00 dBi **<5745 MHz ~ 5825 MHz>**: IFA Antenna with gain -3.00 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 whole testing has assessed only 802.11ac VHT20 and 11n HT40 by referring to the higher output power.

1.5 Modification of EUT

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

1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-201L
AC Adapter 1(EU)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-202L
AC Adapter 1(UK)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-203L
AC Adapter 1(AU)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-205L
AC Adapter 1(AR)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-206L
AC Adapter 1(IN)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-204
AC Adapter 2(US)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-201L
AC Adapter 2(EU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-202L
AC Adapter 2(UK)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-203L
AC Adapter 2(AU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-205L
AC Adapter 2(AR)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-206L
AC Adapter 2(BR)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-207L
AC Adapter 2(Chile)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-209L
AC Adapter 3(BR)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-207L
AC Adapter 4(BR local)	**Brand Name**	Motorola (Cliptech)	**Model Name**	MC-207L
AC Adapter 5(IN local)	**Brand Name**	Motorola (XIHI)	**Model Name**	MC-204
Battery 1	**Brand Name**	Motorola (ATL)	**Model Name**	QF50
Battery 2	**Brand Name**	Motorola (SCUD)	**Model Name**	QF50
Battery 3	**Brand Name**	Motorola (Sunwoda)	**Model Name**	QF50
USB Cable 1	**Brand Name**	Motorola (Saibao)	**Model Name**	SZN-A026A
USB Cable 2	**Brand Name**	Motorola (Ju wei)	**Model Name**	JWUB1606-ZN01H
USB Cable 3	**Brand Name**	Motorola (Washin)	**Model Name**	HX-ZN-19

1.7 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.**
	CO01-KS 03CH08-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH08-KS	AUDIX	E3	210616
3.	CO01-KS	AUDIX	E3	6.2009-8-24

1.9 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.
- FCC KDB 662911 D01 Multiple Transmitter Output 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

a. 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: conduction emission (150 kHz to 30 MHz), 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 (Y plane) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5180-5240 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)
5260-5320 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)
5500-5720MHz 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)
5745-5825 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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138#	5690	144	5720
	142*	5710		

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80.

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
802.11n HT40	MCS0
802.11ac VHT80	MCS0

AC Conducted Emission	Mode 1 : GSM 850 Idle + Bluetooth Link + WLAN Link(5G) + USB Cable 1(Charging from Adapter 1) + Earphone
Remark: For Radiated Test Cases, The tests were performance with Adapter 1, Earphone, USB Cable 1	

Simultaneous transmission
Wifi 5G 802.11a CH36_TX + LTE Band 13 Link (BW=5M)

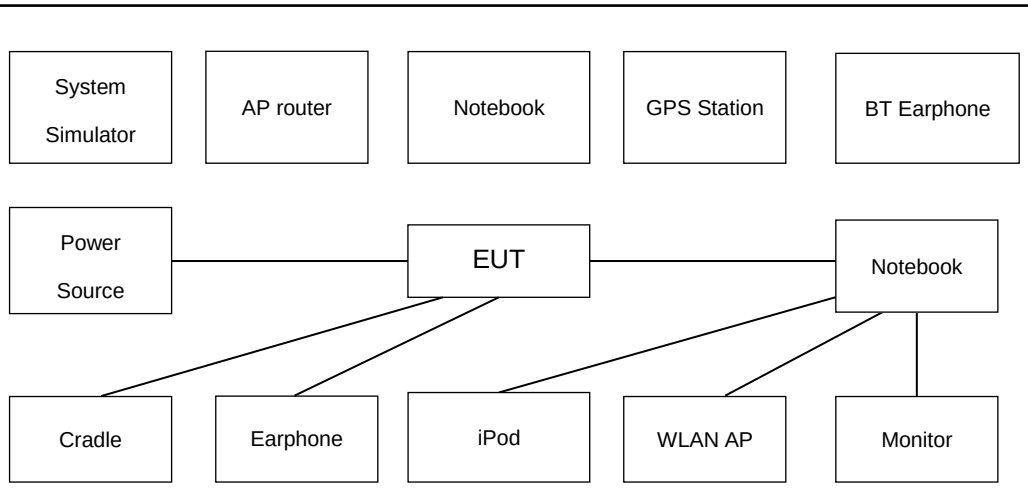
Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		802.11a	802.11a	802.11a	802.11a
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		802.11n HT40	802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159
Straddle		-	-	142	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106	-
M	Middle	42	58	122	155
H	High	-	-	-	-
Straddle		-	-	138	-

2.3 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
5.	SD Card	Kingston	8GB	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.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

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 0.80 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 0.80. + 10 = 10.80 (dB)

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

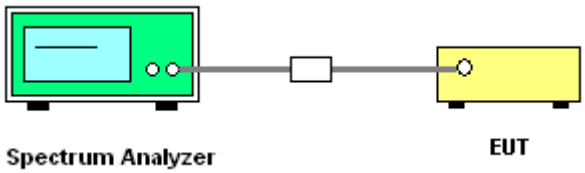
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. 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
	1. Set RBW = approximately 1% of the emission bandwidth. **2.** Set the VBW > RBW. **3.** Detector = Peak. **4.** Trace mode = max hold **5.** 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%. **6.** 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) ≥ 3 * RBW. **7.** 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
	1. Set RBW = 100kHz. **2.** Set the VBW ≥ 3 x RBW. **3.** Detector = Peak. **4.** Trace mode = max hold **5.** Measure the maximum width of the emission that is 6 dB down from the peak of the emission. **6.** Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB 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 log 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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

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3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

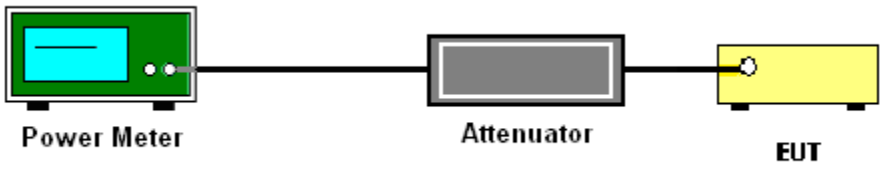
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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 5.15 - 5.25 GHz, 5.25 - 5.35 GHz, and 5.47 - 5.725 GHz

 # 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 ≥ 3 MHz.
- Number of points in sweep ≥ 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 5.725 - 5.85 GHz

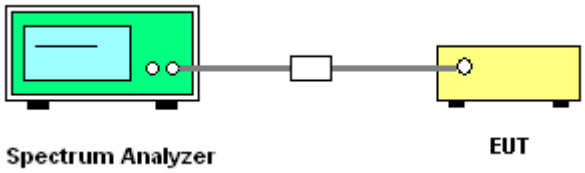
 # Method SA-2 #

(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(500kHz/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 Part15.205.

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 ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

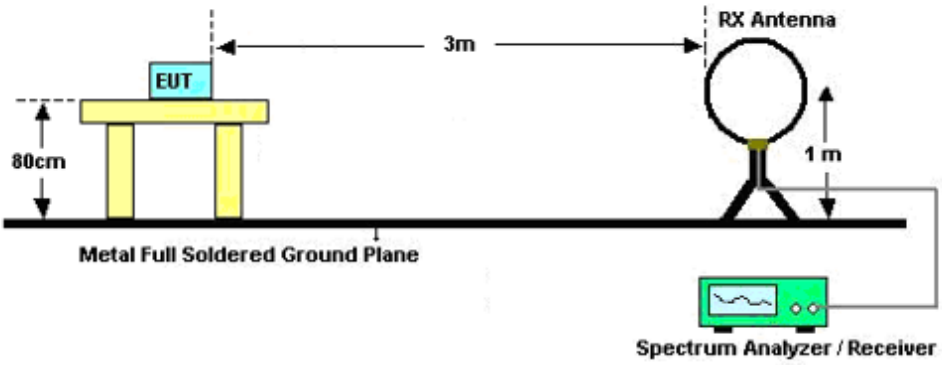
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.

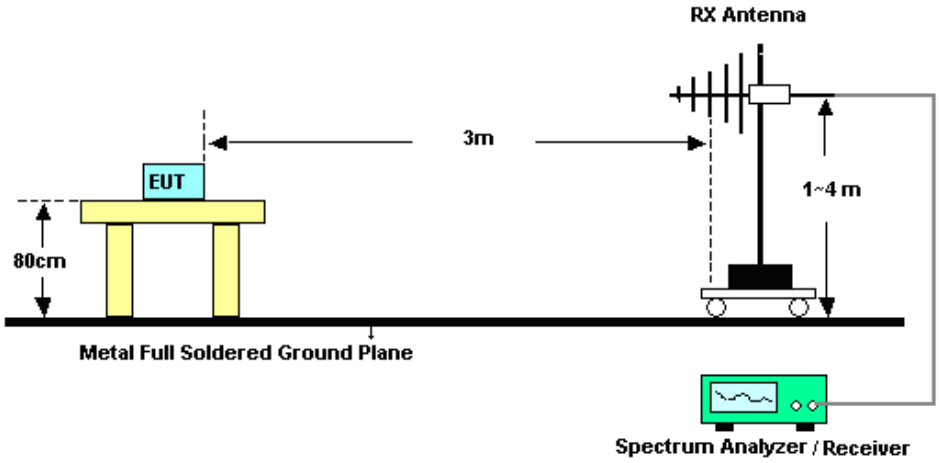
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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

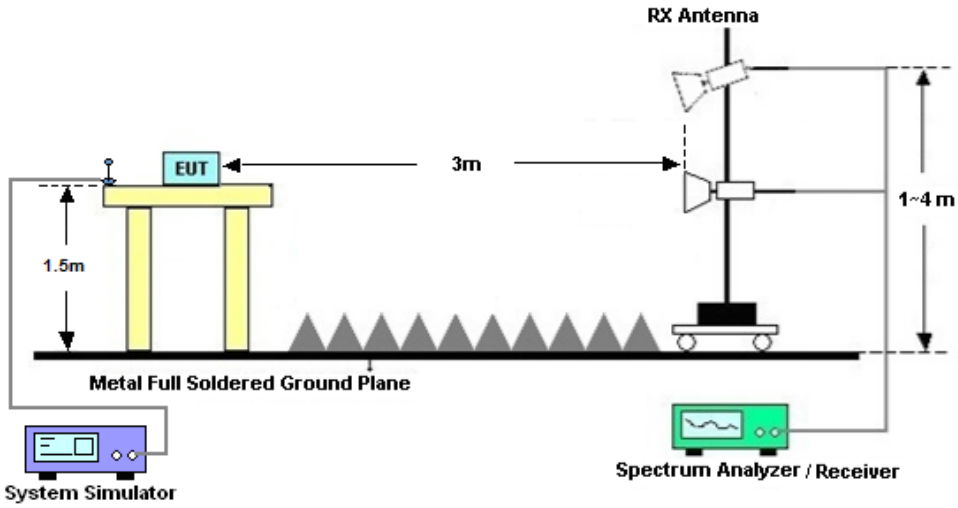
For radiated emissions below 30MHz



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 C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

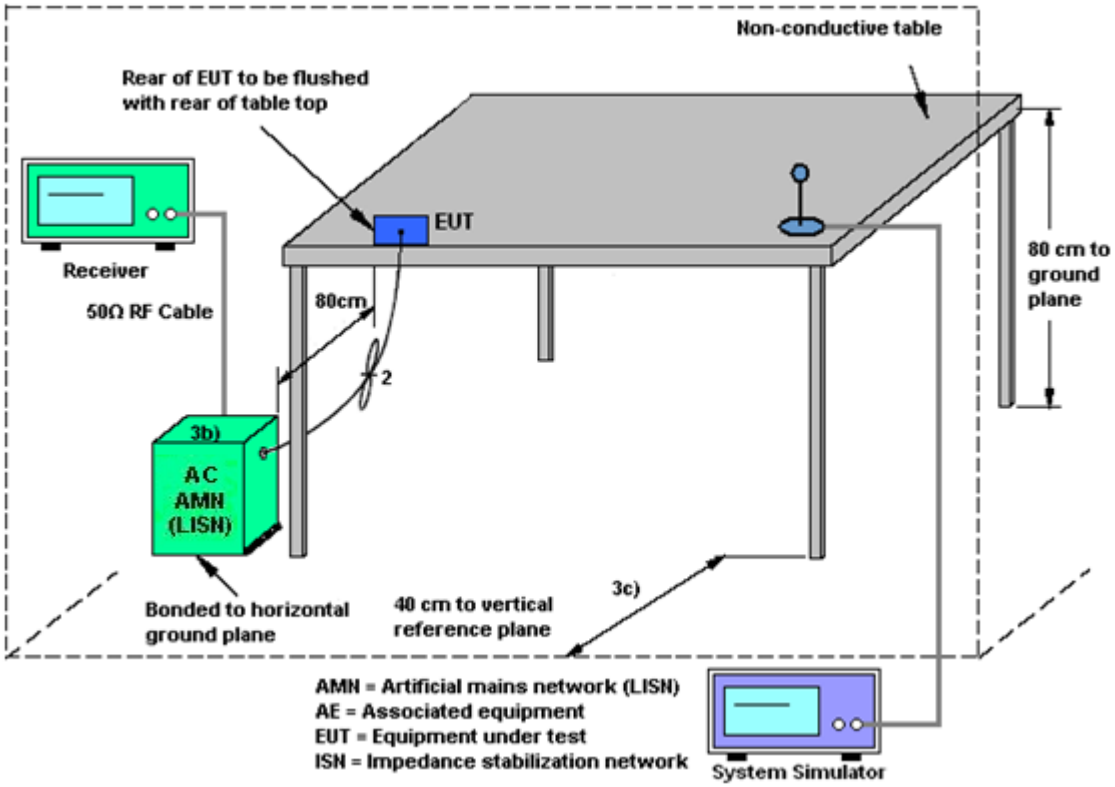
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 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
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Oct. 08, 2023 ~Oct. 19, 2023	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Oct. 08, 2023 ~Oct. 19, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Oct. 08, 2023 ~Oct. 19, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 05, 2023	Sep. 28, 2023 ~Oct. 10, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101932	10kHz~40GHz; Max 30dBm	Oct. 10, 2023	Sep. 28, 2023 ~Oct. 10, 2023	Oct. 09, 2024	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Oct. 10, 2023	Sep. 28, 2023 ~Oct. 10, 2023	Oct. 09, 2024	Radiation (03CH08-KS)
Bilog Antenna	TESEQ& VGT	CBL 61110	59915	30MHz-1GHz	Aug. 12, 2023	Sep. 28, 2023 ~Oct. 10, 2023	Aug. 11, 2024	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Mar. 18, 2023	Sep. 28, 2023 ~Oct. 10, 2023	Mar. 17, 2024	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Sep. 28, 2023 ~Oct. 10, 2023	Jan. 07, 2024	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	413741	9KHz-1GHz	Jan. 05, 2023	Sep. 28, 2023 ~Oct. 10, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz-18Ghz	Oct. 10, 2023	Sep. 28, 2023 ~Oct. 10, 2023	Oct. 09, 2024	Radiation (03CH08-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Sep. 28, 2023 ~Oct. 10, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Sep. 28, 2023 ~Oct. 10, 2023	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Sep. 28, 2023 ~Oct. 10, 2023	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Sep. 28, 2023 ~Oct. 10, 2023	NCR	Radiation (03CH08-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 16, 2023	Oct. 23, 2023	May 15, 2024	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Oct. 23, 2023	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 16, 2023	Oct. 23, 2023	May 15, 2024	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Oct. 23, 2023	Oct. 10, 2024	Conduction (CO01-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 Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.94dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.3dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.0dB**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3dB**

Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Long Wu	Temperature:	21~25	°C
Test Date:	2023.10.8~2023.10.19	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
					Ant 6	Ant 6	Ant 6		
11a	6Mbps	1	36	5180	18.00	24.00	-0.50		Pass
11a	6Mbps	1	44	5220	18.19	24.00	-0.50		Pass
11a	6Mbps	1	48	5240	17.91	24.00	-0.50		Pass
HT20	MCS0	1	36	5180	17.84	24.00	-0.50		Pass
HT20	MCS0	1	44	5220	17.99	24.00	-0.50		Pass
HT20	MCS0	1	48	5240	17.76	24.00	-0.50		Pass
HT40	MCS0	1	38	5190	16.33	24.00	-0.50		Pass
HT40	MCS0	1	46	5230	16.48	24.00	-0.50		Pass
VHT20	MCS0	1	36	5180	17.81	24.00	-0.50		Pass
VHT20	MCS0	1	44	5220	18.00	24.00	-0.50		Pass
VHT20	MCS0	1	48	5240	17.70	24.00	-0.50		Pass
VHT40	MCS0	1	38	5190	15.50	24.00	-0.50		Pass
VHT40	MCS0	1	46	5230	15.59	24.00	-0.50		Pass
VHT80	MCS0	1	42	5210	12.71	24.00	-0.50		Pass

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 6	Ant 6	Ant 6		
11a	6Mbps	1	52	5260	18.25	23.98	-0.50	30.00	Pass
11a	6Mbps	1	60	5300	18.43	23.98	-0.50	30.00	Pass
11a	6Mbps	1	64	5320	18.65	23.98	-0.50	30.00	Pass
HT20	MCS0	1	52	5260	18.03	23.98	-0.50	30.00	Pass
HT20	MCS0	1	60	5300	18.23	23.98	-0.50	30.00	Pass
HT20	MCS0	1	64	5320	18.50	23.98	-0.50	30.00	Pass
HT40	MCS0	1	54	5270	16.70	23.98	-0.50	30.00	Pass
HT40	MCS0	1	62	5310	16.89	23.98	-0.50	30.00	Pass
VHT20	MCS0	1	52	5260	17.98	23.98	-0.50	30.00	Pass
VHT20	MCS0	1	60	5300	18.22	23.98	-0.50	30.00	Pass
VHT20	MCS0	1	64	5320	18.51	23.98	-0.50	30.00	Pass
VHT40	MCS0	1	54	5270	15.78	23.98	-0.50	30.00	Pass
VHT40	MCS0	1	62	5310	15.99	23.98	-0.50	30.00	Pass
VHT80	MCS0	1	58	5290	13.83	23.98	-0.50	30.00	Pass

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 6	Ant 6	Ant 6		
11a	6Mbps	1	100	5500	18.66	23.98	-1.00	30.00	Pass
11a	6Mbps	1	116	5580	17.95	23.98	-1.00	30.00	Pass
11a	6Mbps	1	140	5700	17.70	23.98	-1.00	30.00	Pass
HT20	MCS0	1	100	5500	18.55	23.98	-1.00	30.00	Pass
HT20	MCS0	1	116	5580	17.75	23.98	-1.00	30.00	Pass
HT20	MCS0	1	140	5700	17.49	23.98	-1.00	30.00	Pass
HT40	MCS0	1	102	5510	16.88	23.98	-1.00	30.00	Pass
HT40	MCS0	1	110	5550	16.93	23.98	-1.00	30.00	Pass
HT40	MCS0	1	134	5670	16.59	23.98	-1.00	30.00	Pass
VHT20	MCS0	1	100	5500	18.56	23.98	-1.00	30.00	Pass
VHT20	MCS0	1	116	5580	17.74	23.98	-1.00	30.00	Pass
VHT20	MCS0	1	140	5700	17.55	23.98	-1.00	30.00	Pass
VHT40	MCS0	1	102	5510	15.98	23.98	-1.00	30.00	Pass
VHT40	MCS0	1	110	5550	15.99	23.98	-1.00	30.00	Pass
VHT40	MCS0	1	134	5670	15.79	23.98	-1.00	30.00	Pass
VHT80	MCS0	1	106	5530	12.94	23.98	-1.00	30.00	Pass
VHT80	MCS0	1	122	5610	14.20	23.98	-1.00	30.00	Pass

FCC U-NII-2C straddle channel single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 6	Ant 6	Ant 6		
11a	6Mbps	1	144	5720	18.39	23.98	-1.00	30.00	Pass
HT20	MCS0	1	144	5720	18.22	23.98	-1.00	30.00	Pass
HT40	MCS0	1	142	5710	16.90	23.98	-1.00	30.00	Pass
VHT20	MCS0	1	144	5720	18.21	23.98	-1.00	30.00	Pass
VHT40	MCS0	1	142	5710	15.98	23.98	-1.00	30.00	Pass
VHT80	MCS0	1	138	5690	14.65	23.98	-1.00	30.00	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)		FCC Conducted Power Limit	DG (dBi)	Pass/Fail
					Ant 6		Ant 6	Ant 6	
11a	6Mbps	1	149	5745	18.13		30.00	-3.00	Pass
11a	6Mbps	1	157	5785	18.59		30.00	-3.00	Pass
11a	6Mbps	1	165	5825	18.10		30.00	-3.00	Pass
HT20	MCS0	1	149	5745	17.95		30.00	-3.00	Pass
HT20	MCS0	1	157	5785	18.49		30.00	-3.00	Pass
HT20	MCS0	1	165	5825	17.80		30.00	-3.00	Pass
HT40	MCS0	1	151	5755	16.62		30.00	-3.00	Pass
HT40	MCS0	1	159	5795	16.78		30.00	-3.00	Pass
VHT20	MCS0	1	149	5745	17.91		30.00	-3.00	Pass
VHT20	MCS0	1	157	5785	18.50		30.00	-3.00	Pass
VHT20	MCS0	1	165	5825	17.79		30.00	-3.00	Pass
VHT40	MCS0	1	151	5755	15.73		30.00	-3.00	Pass
VHT40	MCS0	1	159	5795	15.96		30.00	-3.00	Pass
VHT80	MCS0	1	155	5775	14.63		30.00	-3.00	Pass

Emission Bandwidth

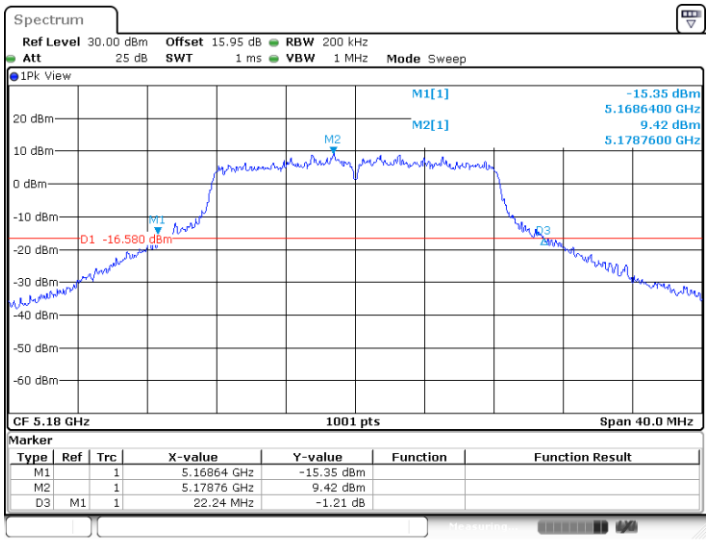
Test Result

TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant6	5180	22.24	5168.64	5190.88	---	---
		5220	22.68	5208.64	5231.32	---	---
		5240	22.56	5228.76	5251.32	---	---
		5260	22.72	5248.96	5271.68	---	---
		5300	22.92	5288.68	5311.60	---	---
		5320	22.64	5308.56	5331.20	---	---
		5500	22.56	5488.76	5511.32	---	---
		5580	22.48	5568.88	5591.36	---	---
		5700	22.60	5688.96	5711.56	---	---
		5720	23.04	5708.28	5731.32	---	---
		5745	22.92	5733.68	5756.60	---	---
		5785	23.16	5773.12	5796.28	---	---
		5825	26.00	5809.92	5835.92	---	---
11AC20SISO	Ant6	5180	23.16	5168.76	5191.92	---	---
		5220	24.56	5207.76	5232.32	---	---
		5240	22.60	5228.72	5251.32	---	---
		5260	22.88	5248.40	5271.28	---	---
		5300	23.28	5288.32	5311.60	---	---
		5320	22.72	5308.84	5331.56	---	---
		5500	22.92	5488.72	5511.64	---	---
		5580	22.44	5568.76	5591.20	---	---
		5700	23.44	5688.28	5711.72	---	---
		5720	23.76	5707.88	5731.64	---	---
		5745	23.60	5733.40	5757.00	---	---
		5785	23.12	5773.72	5796.84	---	---
		5825	22.84	5813.76	5836.60	---	---

11N40SISO	Ant6	5190	41.68	5169.12	5210.80	---	---
		5230	42.56	5208.64	5251.20	---	---
		5270	41.60	5249.20	5290.80	---	---
		5310	41.84	5289.12	5330.96	---	---
		5510	41.76	5489.36	5531.12	---	---
		5550	42.16	5529.12	5571.28	---	---
		5670	41.52	5649.28	5690.80	---	---
		5710	41.84	5689.04	5730.88	---	---
		5755	42.16	5733.96	5776.12	---	---
		5795	42.00	5774.28	5816.28	---	---
11AC80SISO	Ant6	5210	88.16	5168.24	5256.40	---	---
		5290	84.16	5248.24	5332.40	---	---
		5530	83.84	5488.24	5572.08	---	---
		5610	83.84	5568.08	5651.92	---	---
		5690	83.52	5648.40	5731.92	---	---
		5775	84.00	5732.92	5816.92	---	---

Test Graphs

11A_Ant6_5180



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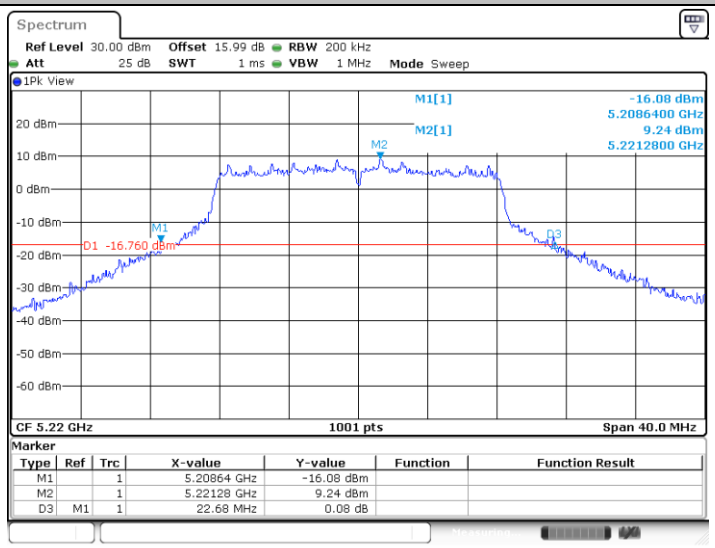

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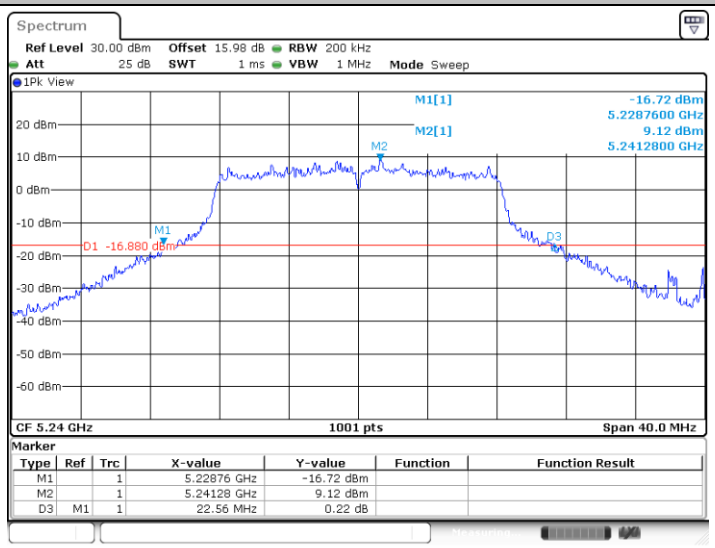

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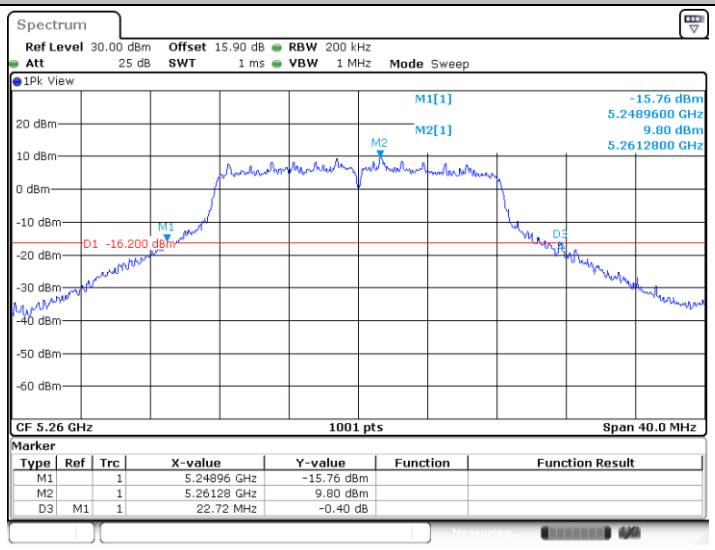
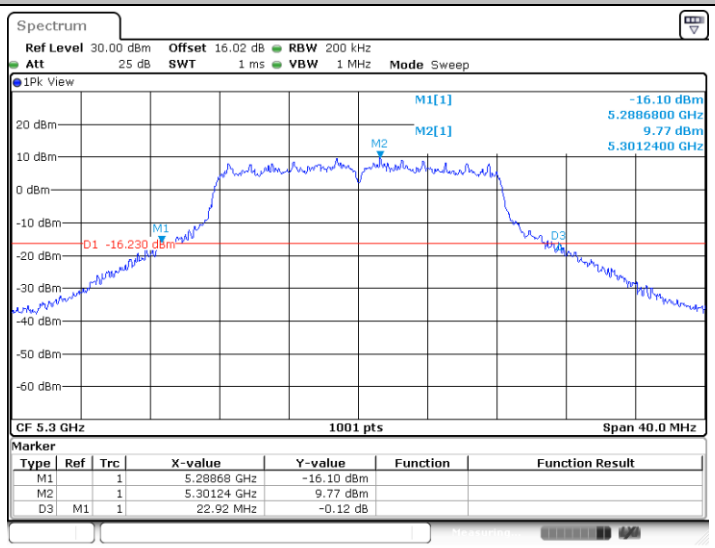
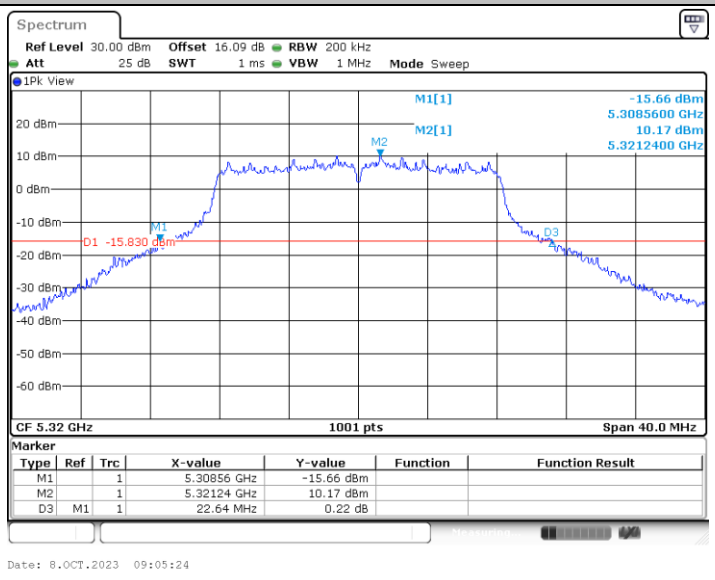


11A_Ant6_5300


11A_Ant6_5320


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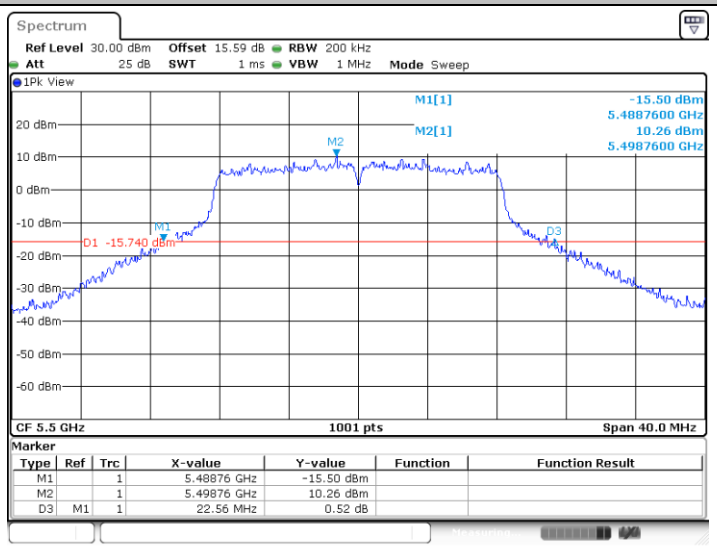
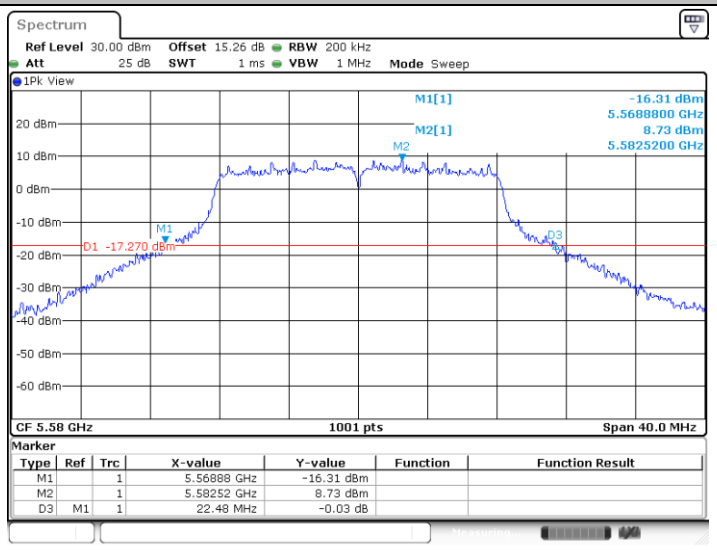


11A_Ant6_5580


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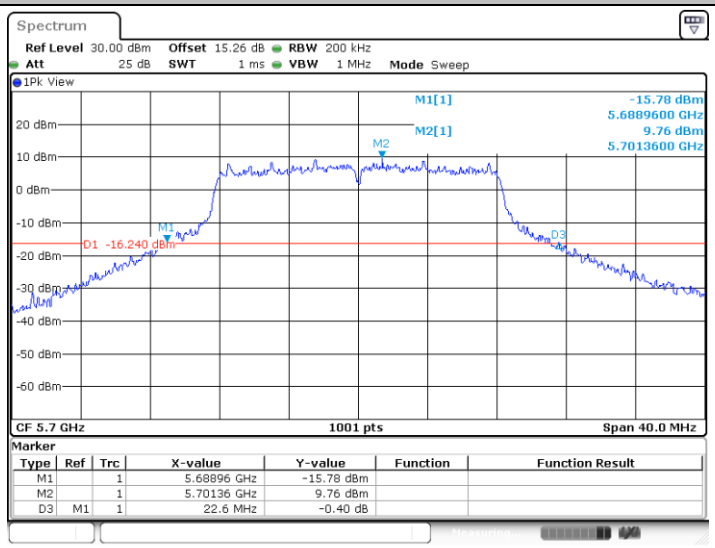

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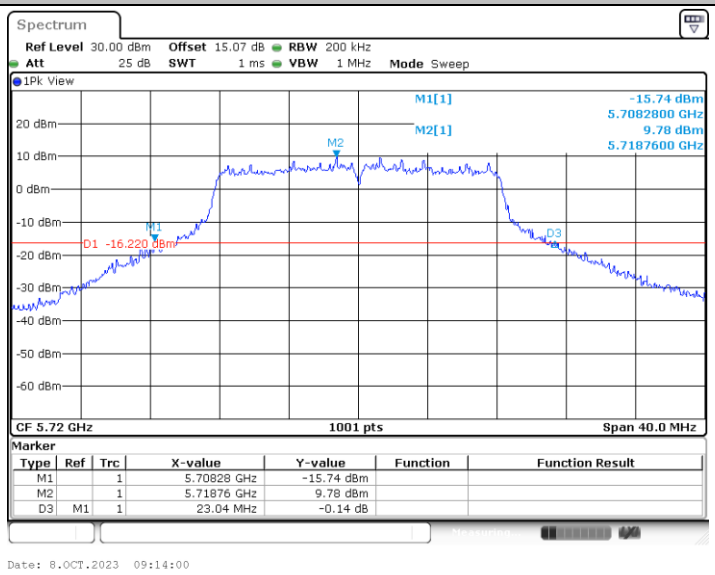

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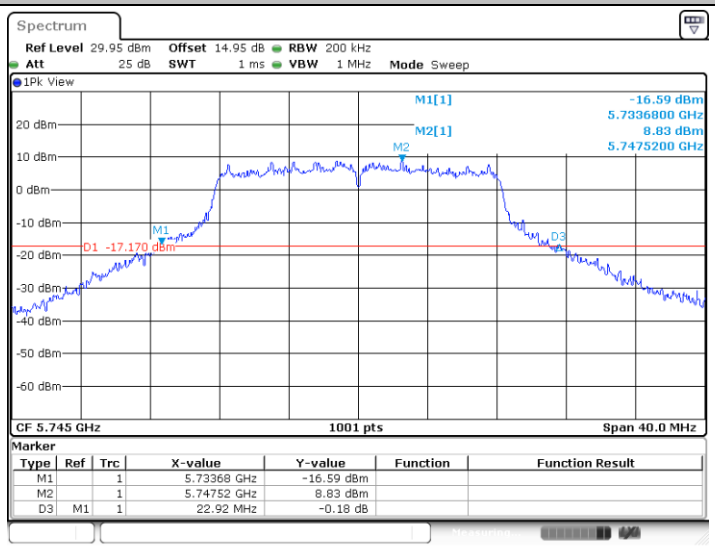

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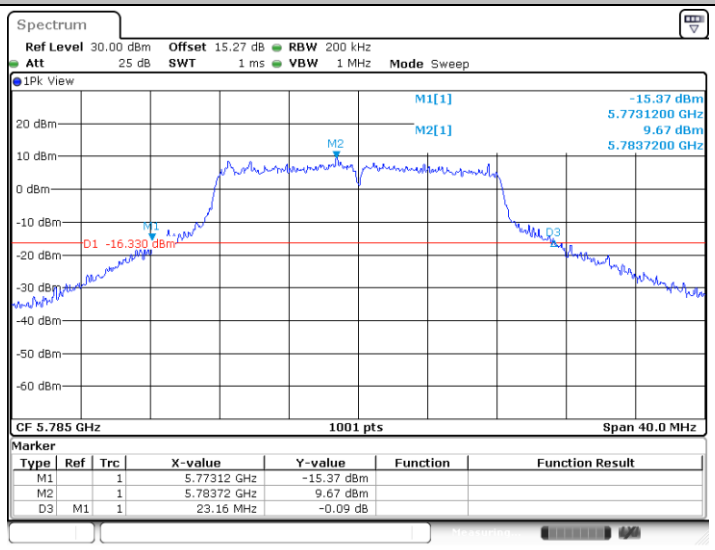

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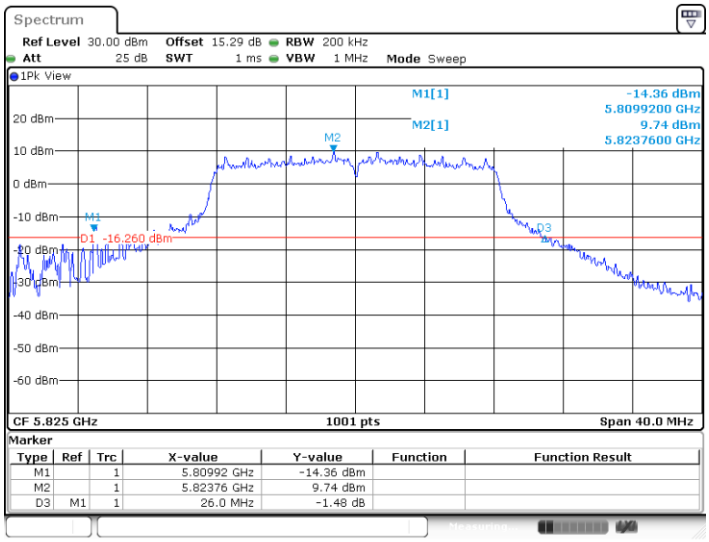

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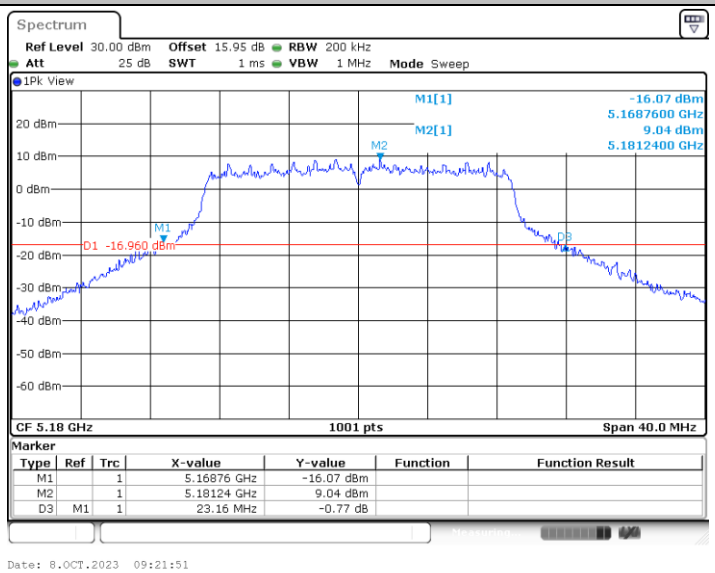

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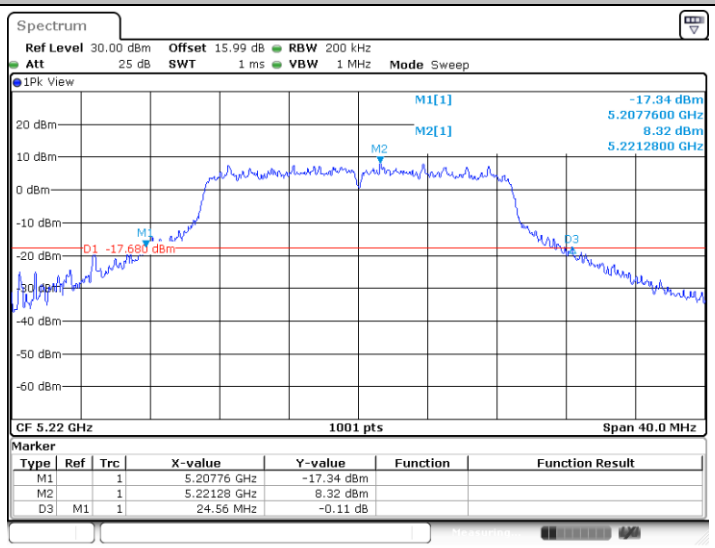

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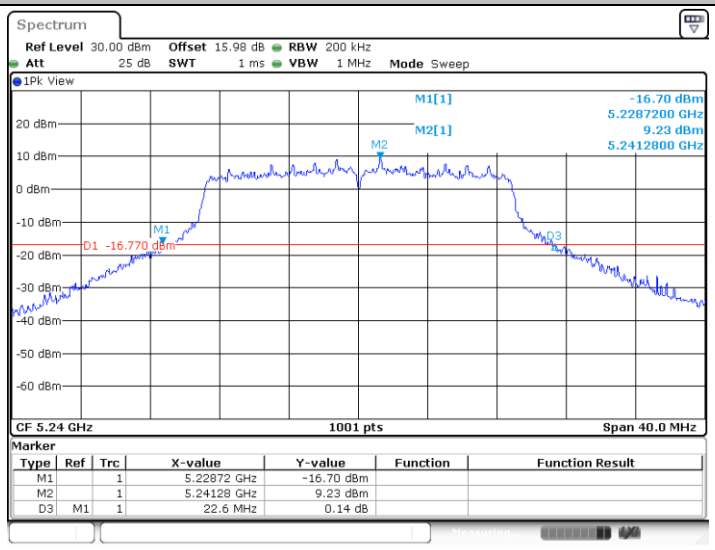

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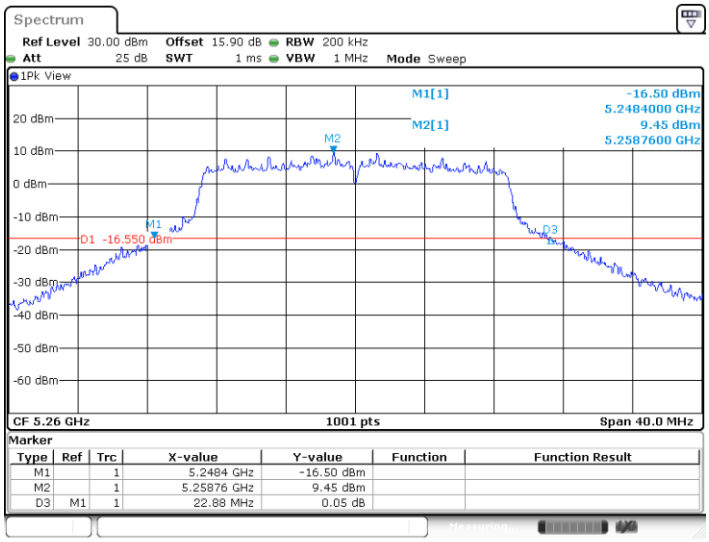

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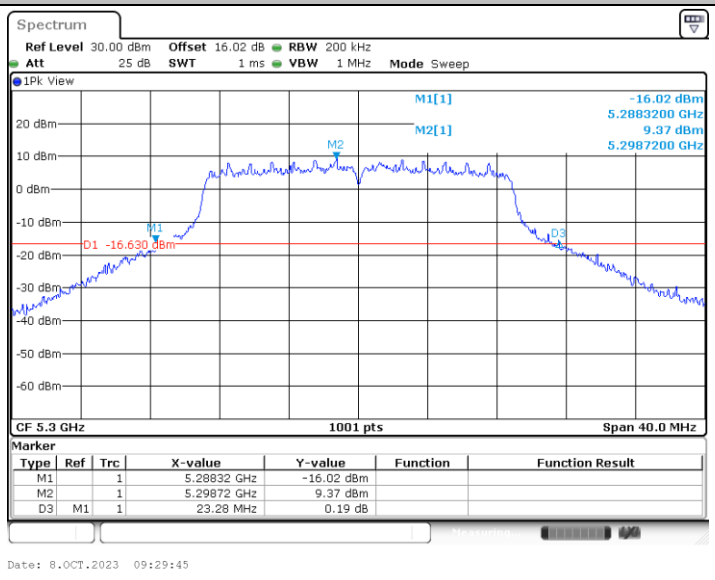

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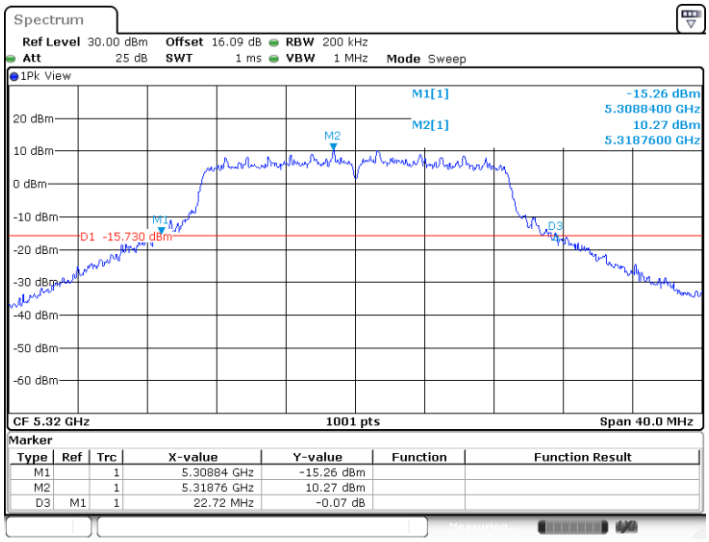

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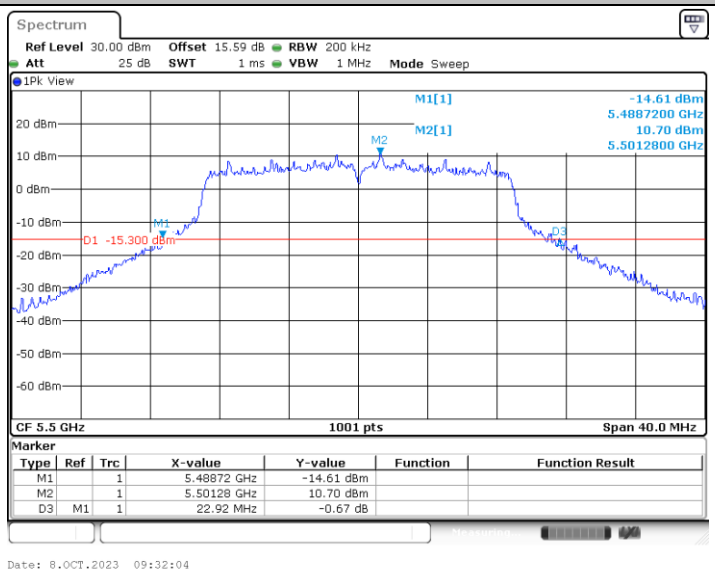

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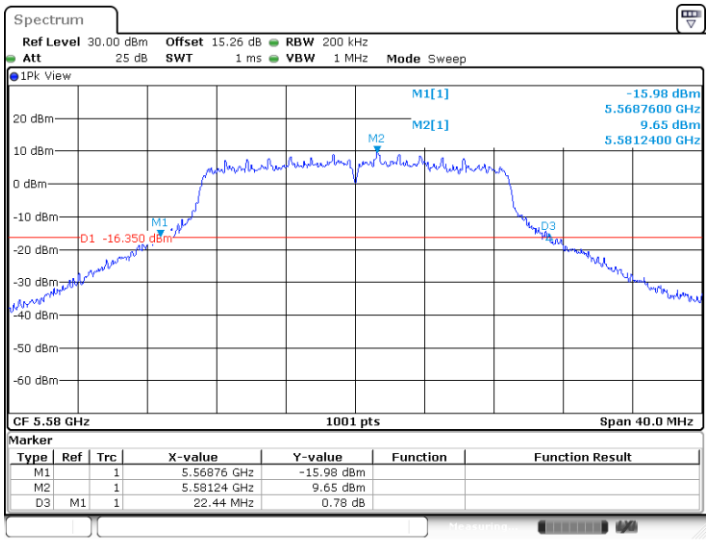

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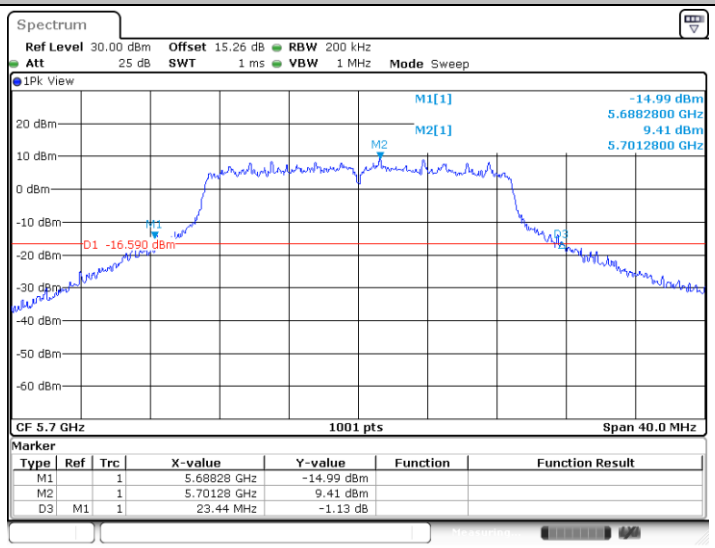

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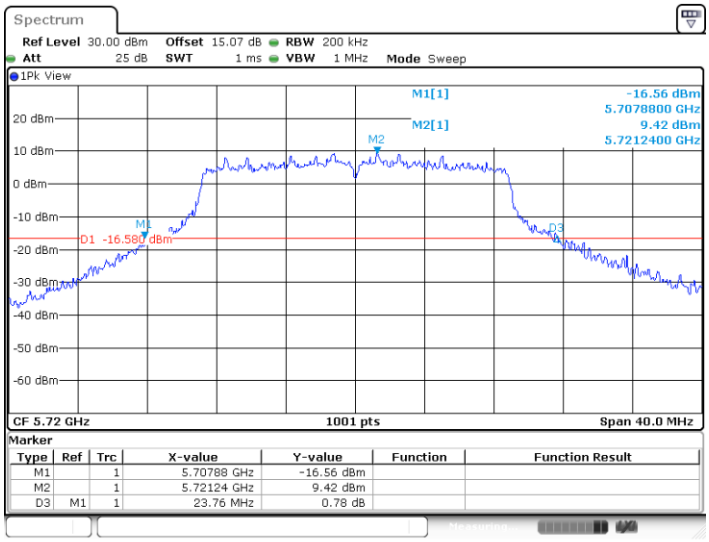
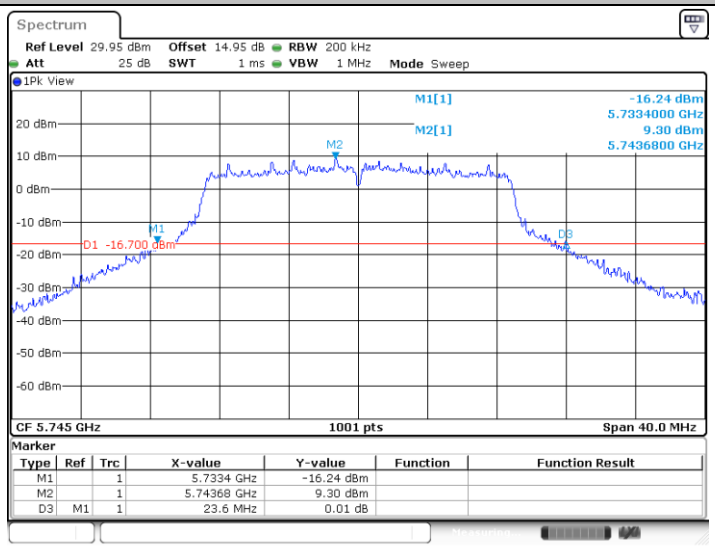


11AC20SISO_Ant6_5745


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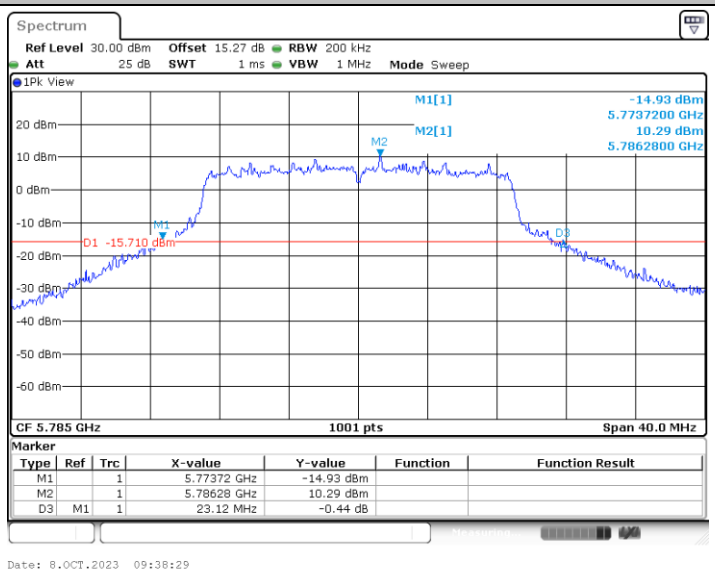

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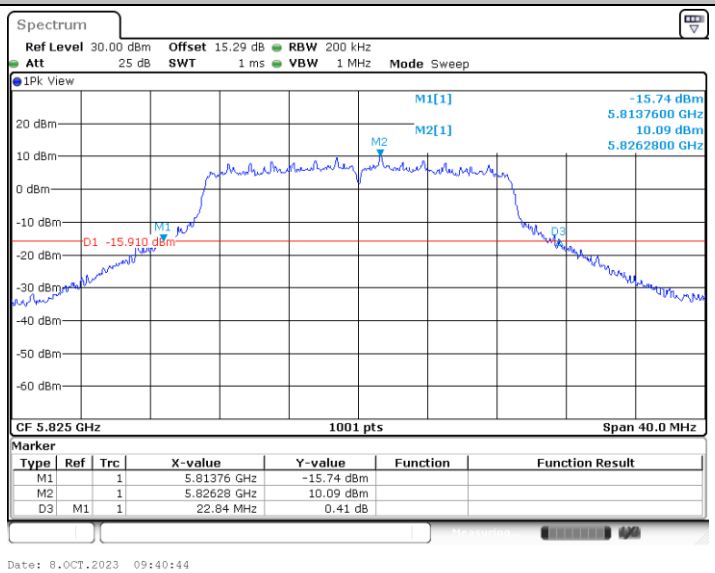

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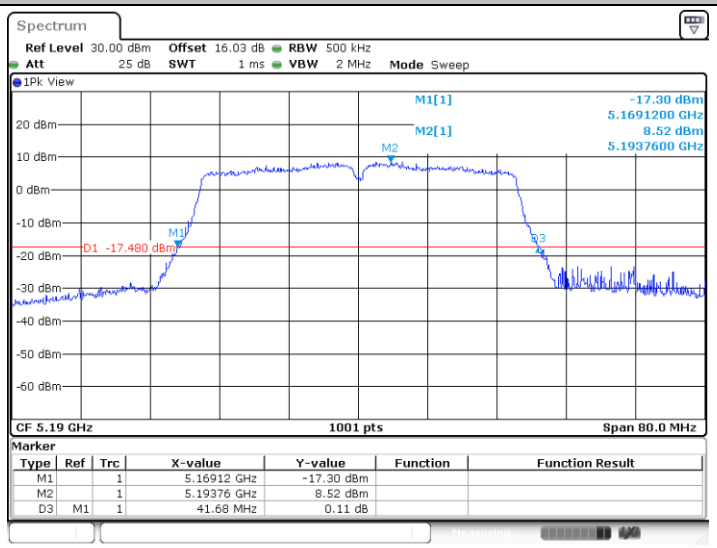
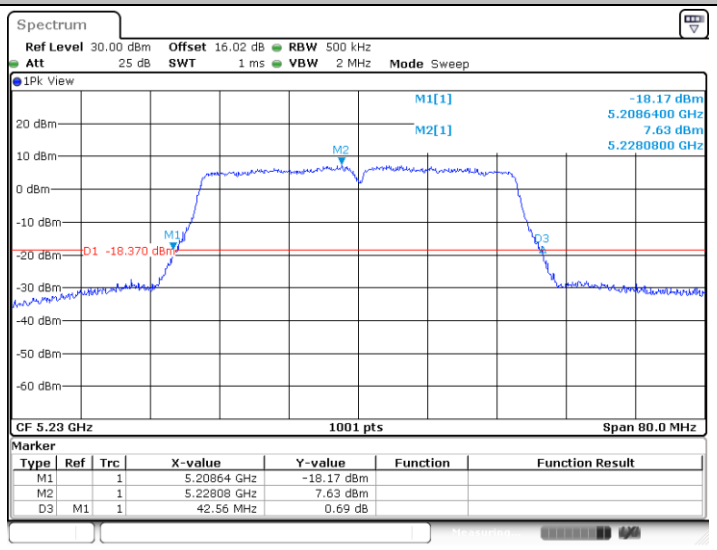


11N40SISO_Ant6_5230


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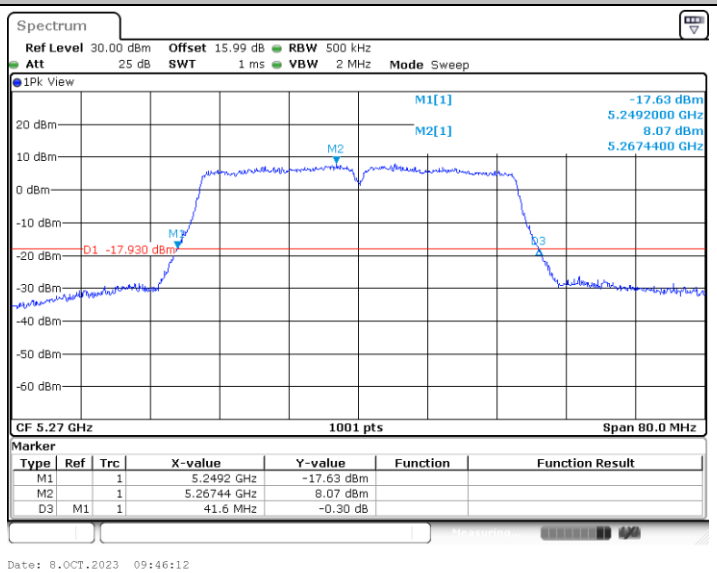

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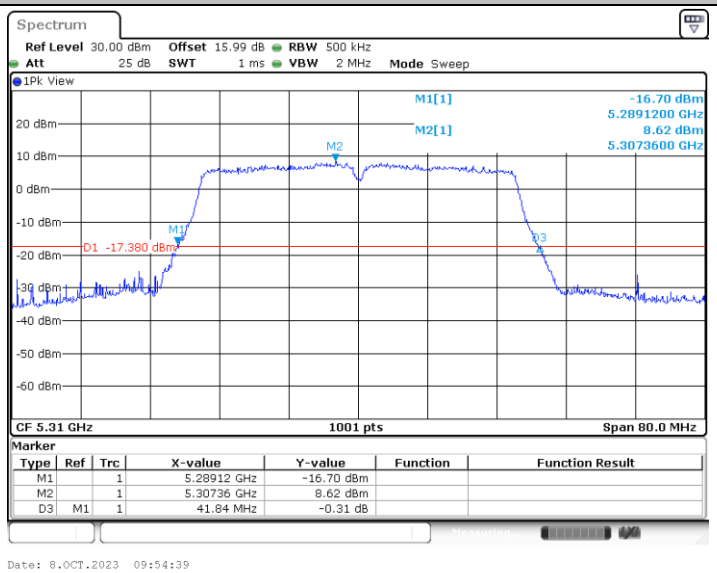

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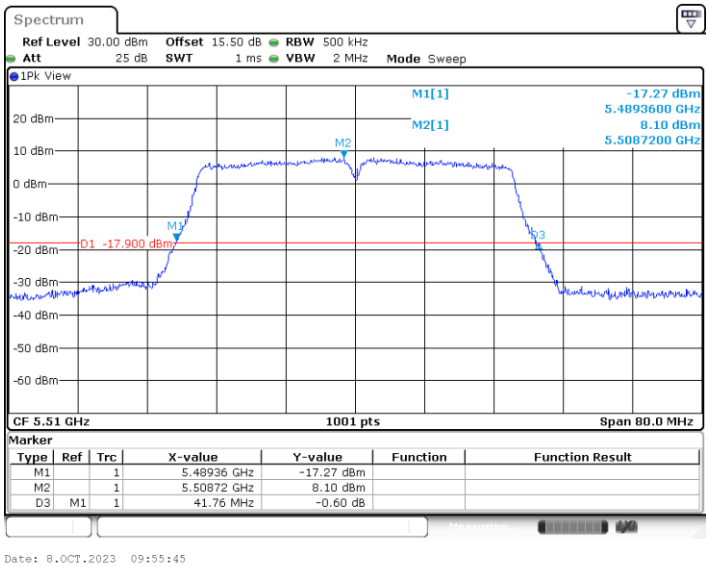

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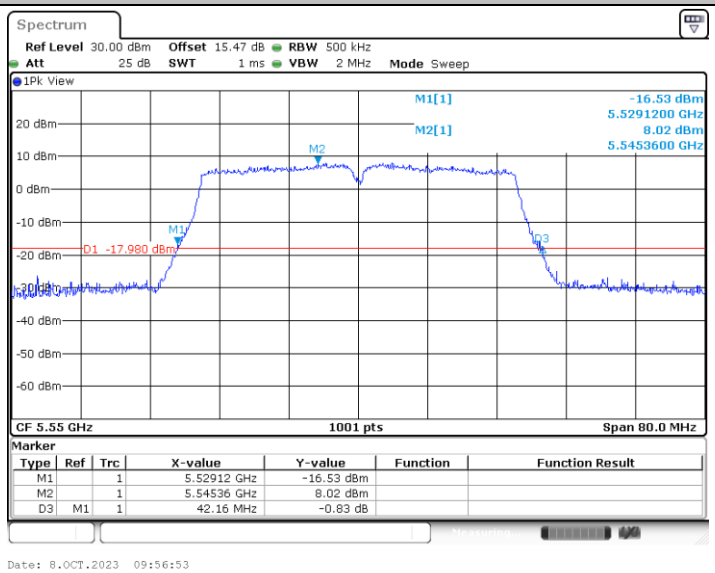

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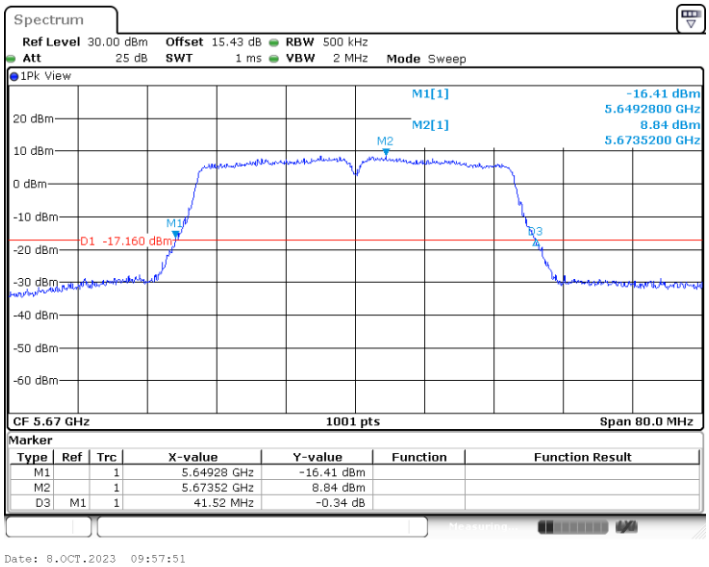

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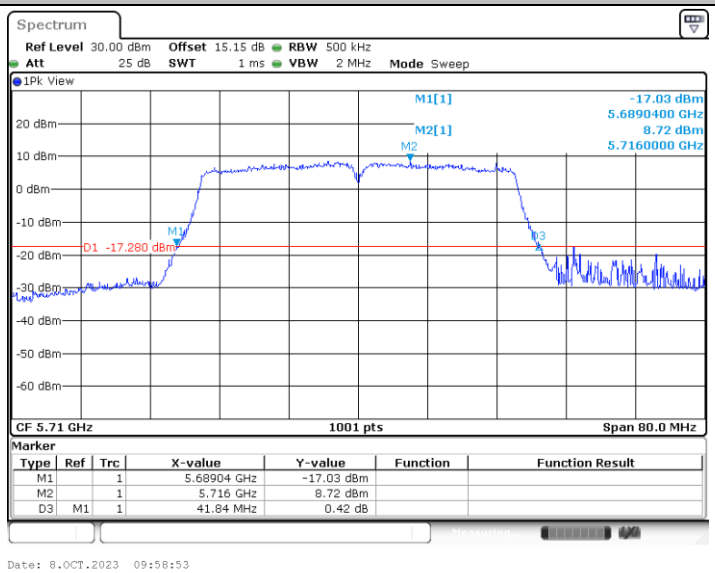

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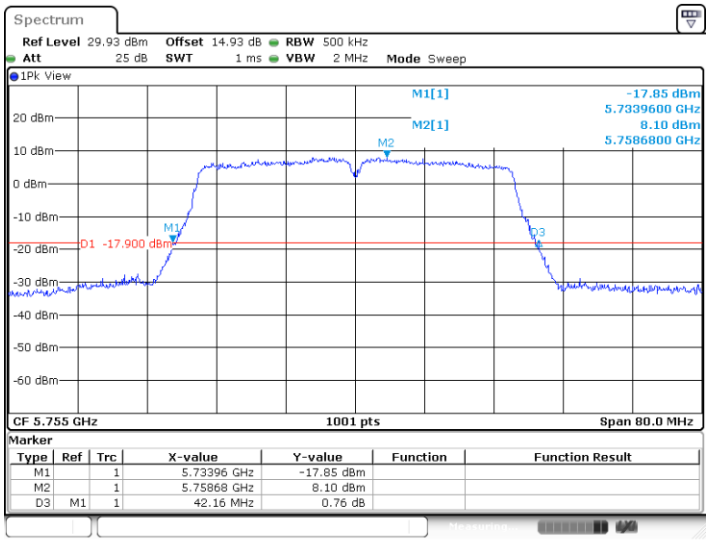

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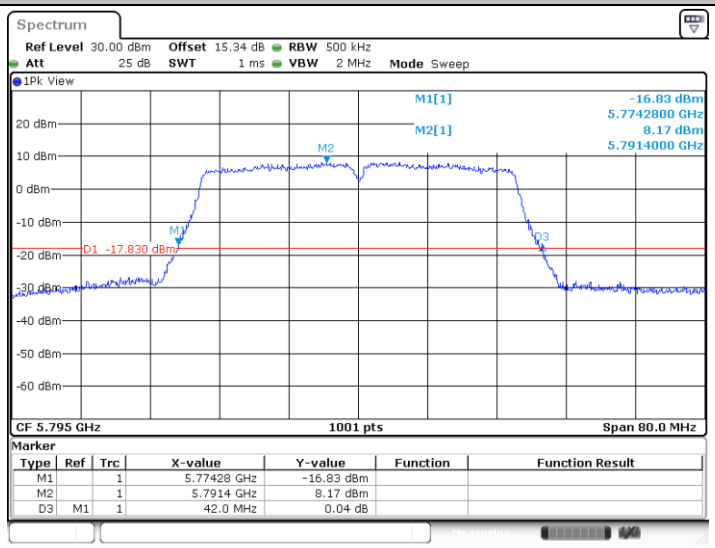

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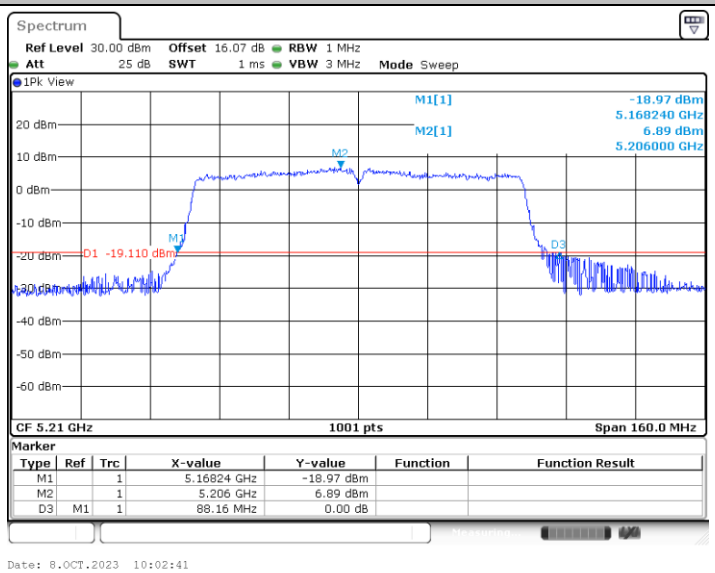

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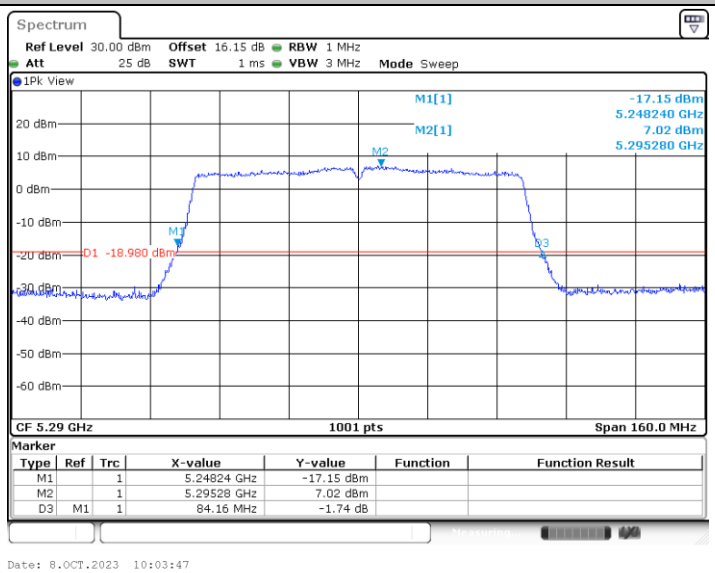

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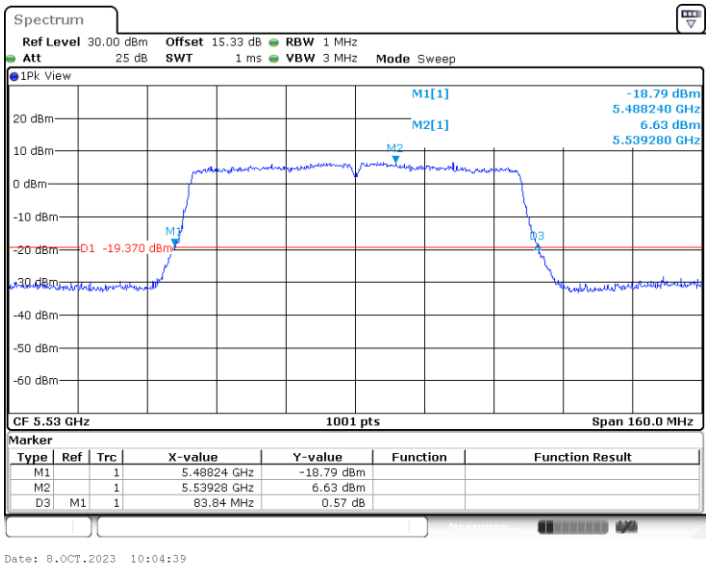

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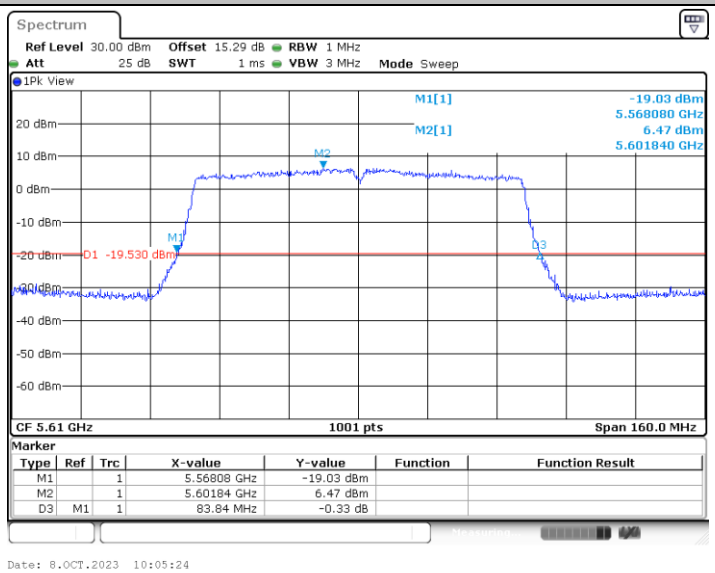

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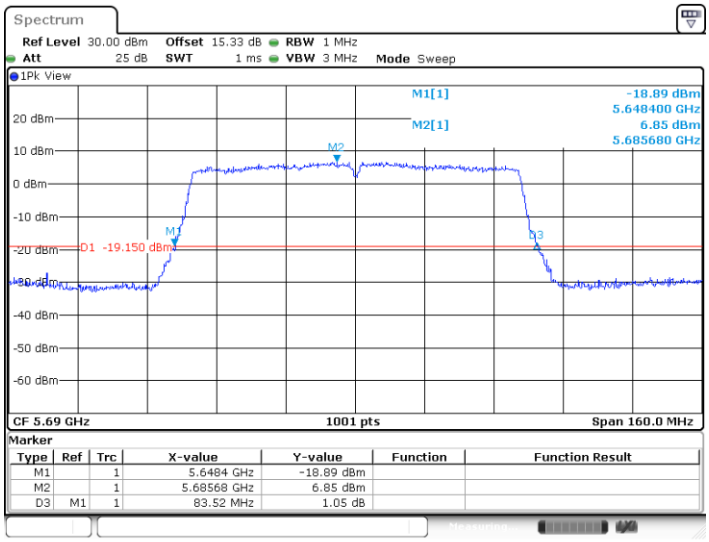

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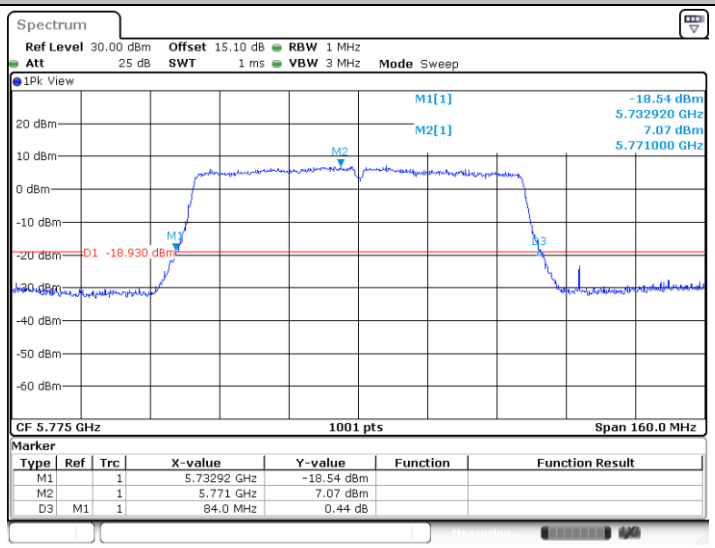


Occupied channel bandwidth

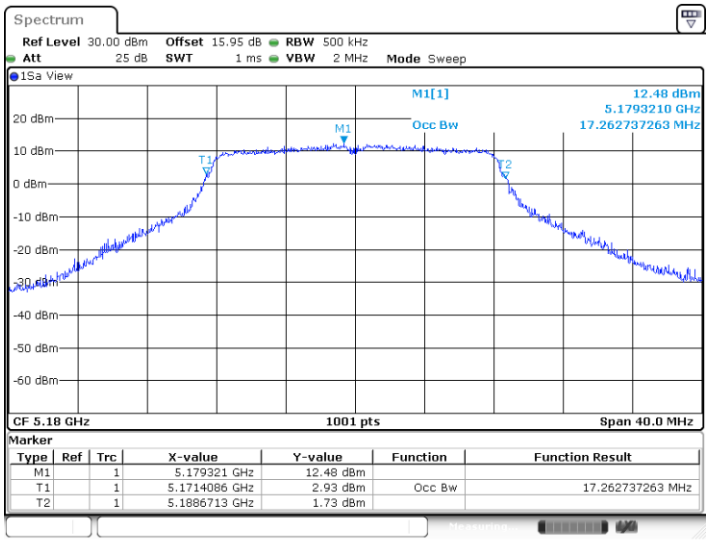
Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant6	5180	17.263	5171.4086	5188.6713	---	---
		5220	17.263	5211.3686	5228.6314	---	---
		5240	17.223	5231.4086	5248.6314	---	---
		5260	17.223	5251.3686	5268.5914	---	---
		5300	17.223	5291.4086	5308.6314	---	---
		5320	17.183	5311.4086	5328.5914	---	---
		5500	17.223	5491.3686	5508.5914	---	---
		5580	17.183	5571.4486	5588.6314	---	---
		5700	17.303	5691.3686	5708.6713	---	---
		5720	17.223	5711.4086	5728.6314	---	---
		5745	17.223	5736.4086	5753.6314	---	---
		5785	17.303	5776.3287	5793.6314	---	---
		5825	17.183	5816.4086	5833.5914	---	---
11AC20SISO	Ant6	5180	18.342	5170.8891	5189.2308	---	---
		5220	18.342	5210.8092	5229.1508	---	---
		5240	18.342	5230.8492	5249.1908	---	---
		5260	18.342	5250.8092	5269.1508	---	---
		5300	18.302	5290.8492	5309.1508	---	---
		5320	18.382	5310.8092	5329.1908	---	---
		5500	18.302	5490.8092	5509.1109	---	---
		5580	18.302	5570.8891	5589.1908	---	---
		5700	18.342	5690.8492	5709.1908	---	---
		5720	18.342	5710.8492	5729.1908	---	---
		5745	18.302	5735.8492	5754.1508	---	---
		5785	18.382	5775.8092	5794.1908	---	---
		5825	18.342	5815.8092	5834.1508	---	---

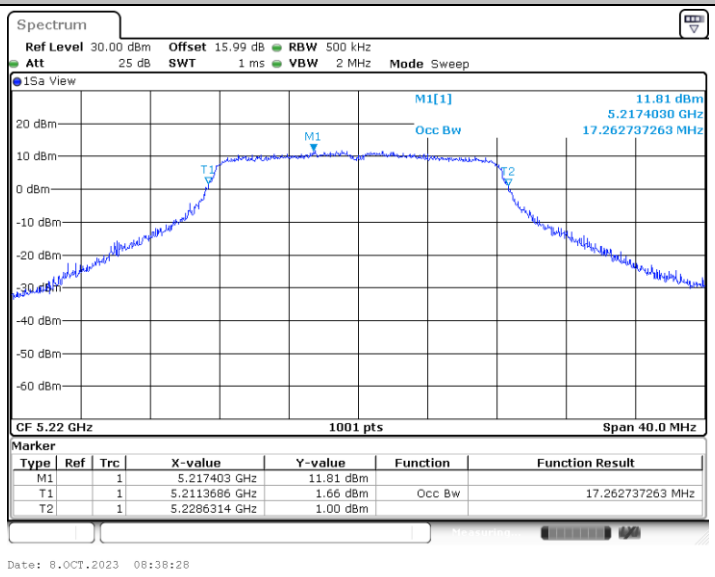
11N40SISO	Ant6	5190	36.444	5171.7782	5208.2218	---	---
		5230	36.603	5211.6983	5248.3017	---	---
		5270	36.603	5251.6983	5288.3017	---	---
		5310	36.523	5291.7782	5328.3017	---	---
		5510	36.523	5491.7782	5528.3017	---	---
		5550	36.444	5531.7782	5568.2218	---	---
		5670	36.444	5651.7782	5688.2218	---	---
		5710	36.603	5691.6983	5728.3017	---	---
		5755	36.523	5736.6983	5773.2218	---	---
		5795	36.444	5776.7782	5813.2218	---	---
11AC80SISO	Ant6	5210	76.244	5171.9580	5248.2018	---	---
		5290	76.084	5251.9580	5328.0420	---	---
		5530	76.084	5491.9580	5568.0420	---	---
		5610	76.084	5571.9580	5648.0420	---	---
		5690	76.244	5651.9580	5728.2018	---	---
		5775	76.084	5736.9580	5813.0420	---	---

Test Graphs

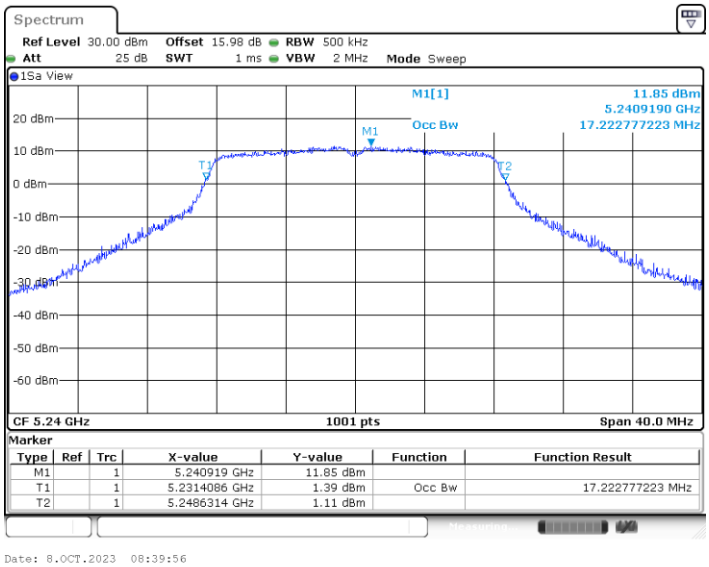
11A_Ant6_5180



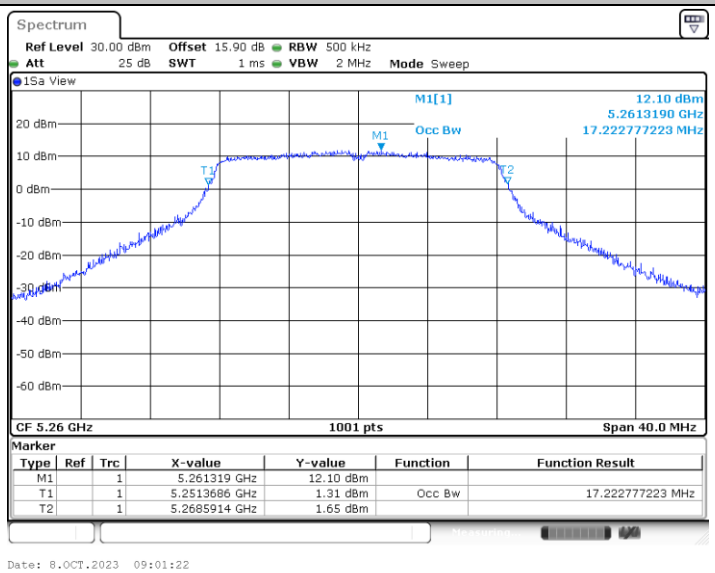
11A_Ant6_5220



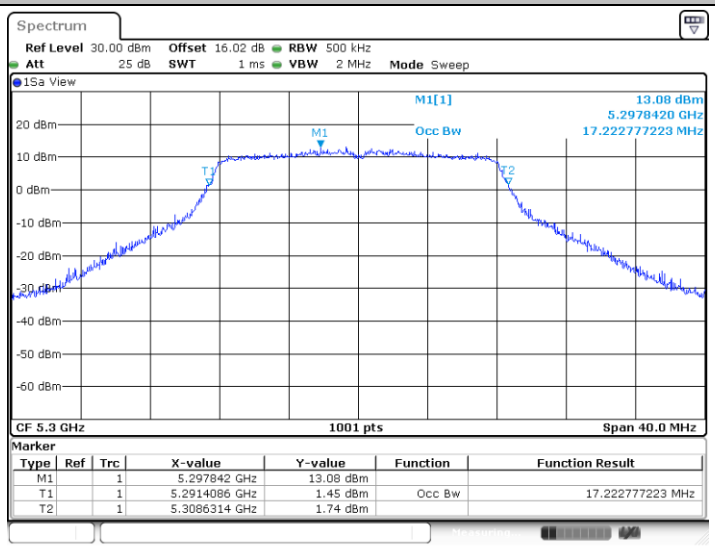
11A_Ant6_5240



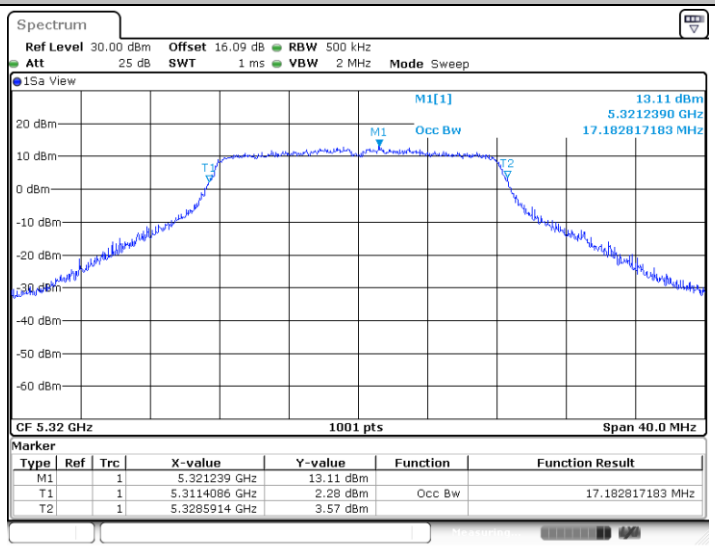
11A_Ant6_5260



11A_Ant6_5300



11A_Ant6_5320



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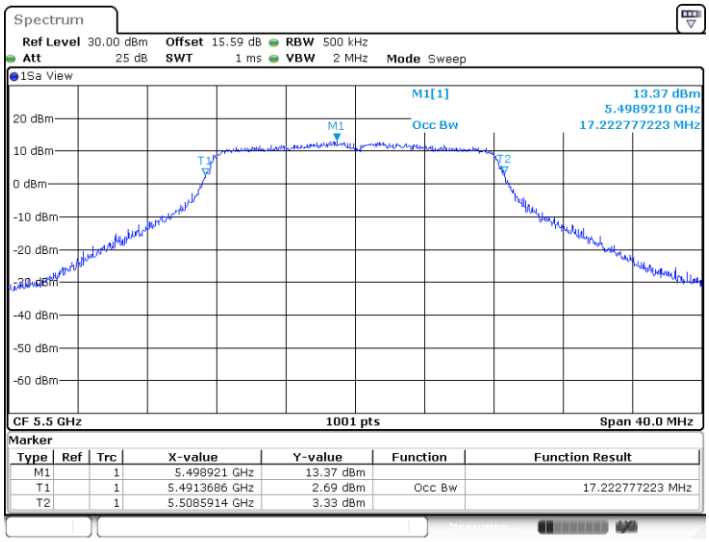
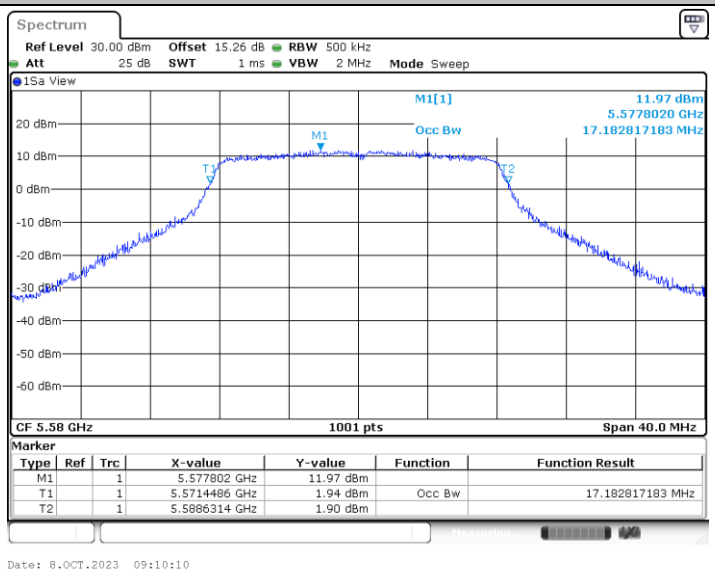
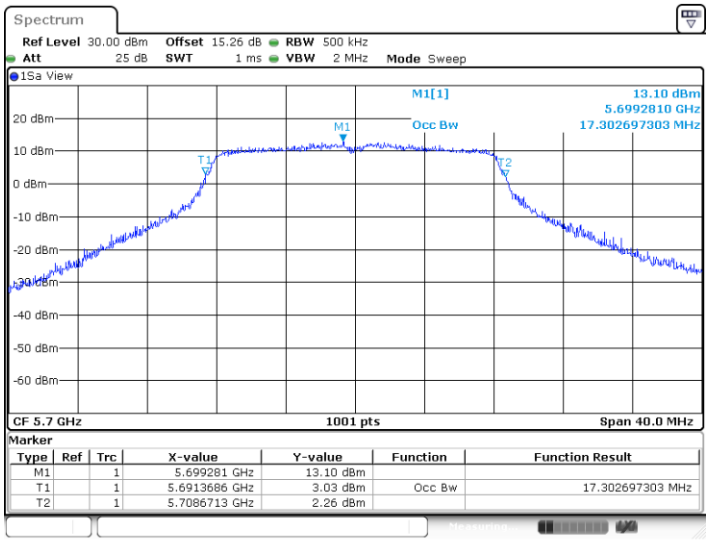


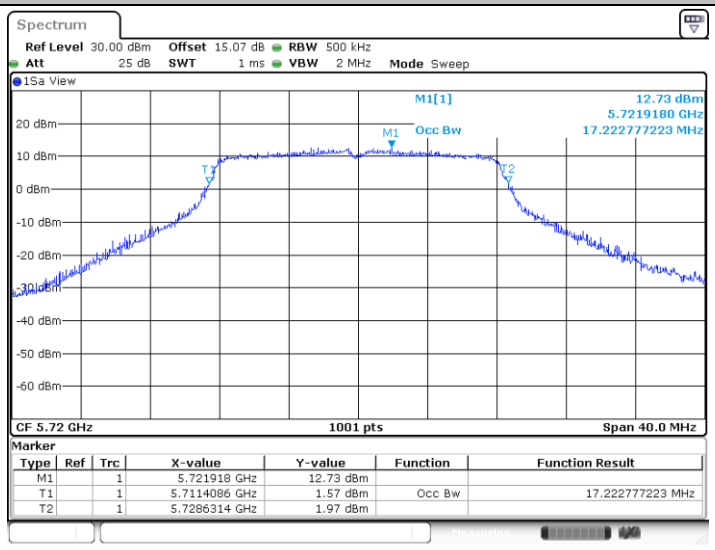
11A_Ant6_5580



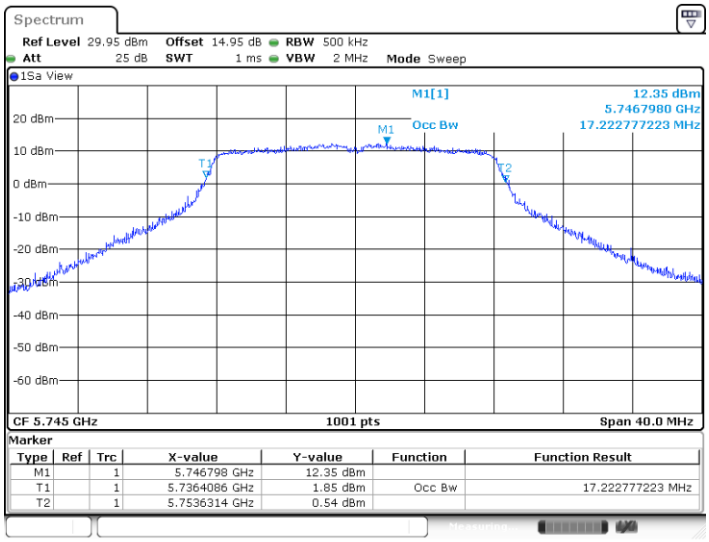
11A_Ant6_5700



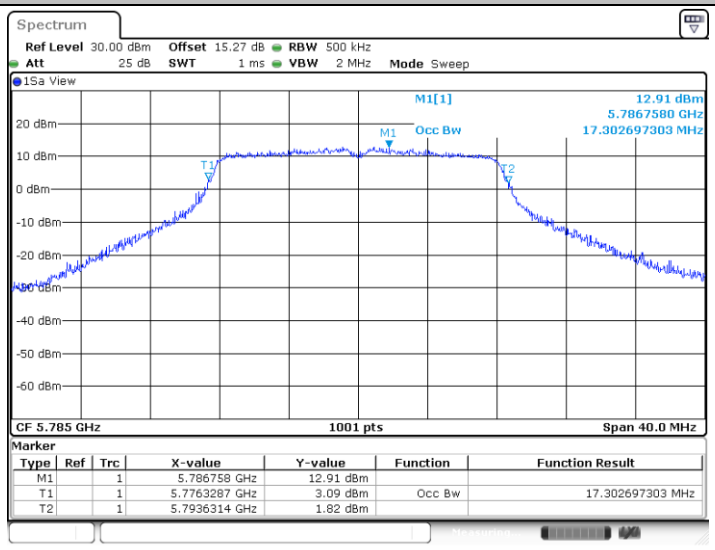
11A_Ant6_5720

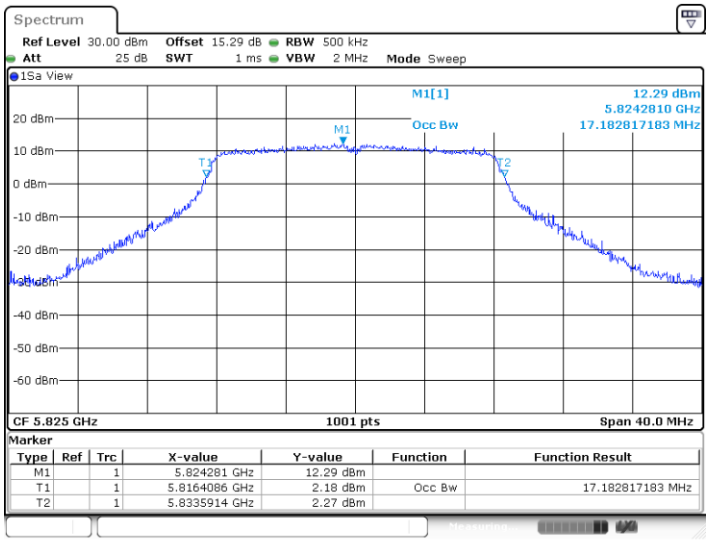


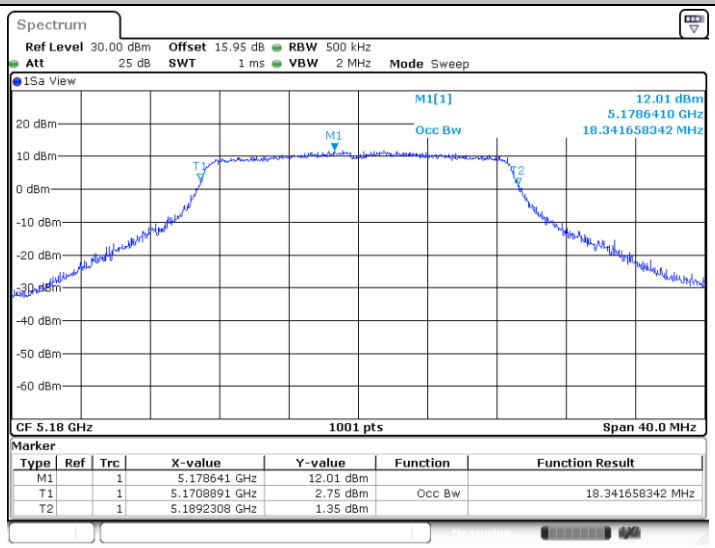
11A_Ant6_5745

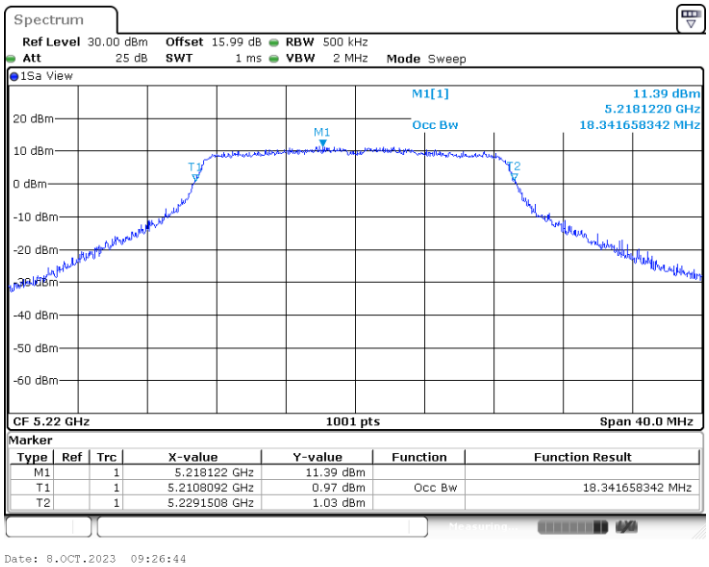


11A_Ant6_5785



11A_Ant6_5825


11AC20SISO_Ant6_5180


11AC20SISO_Ant6_5220


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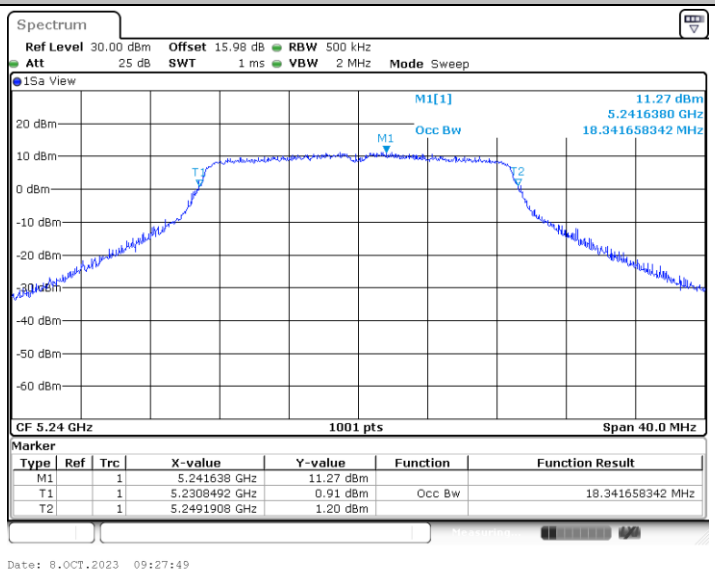

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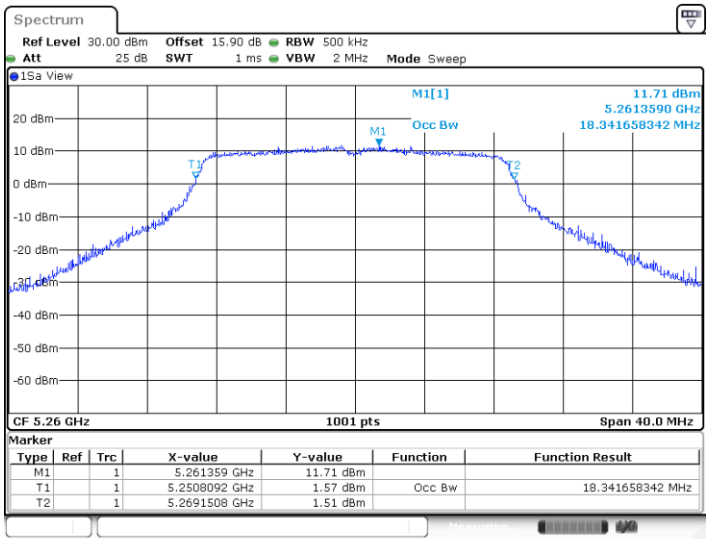

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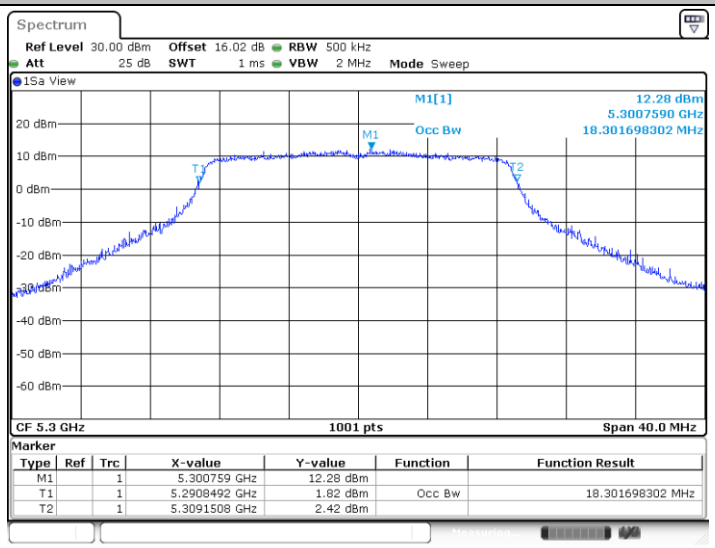

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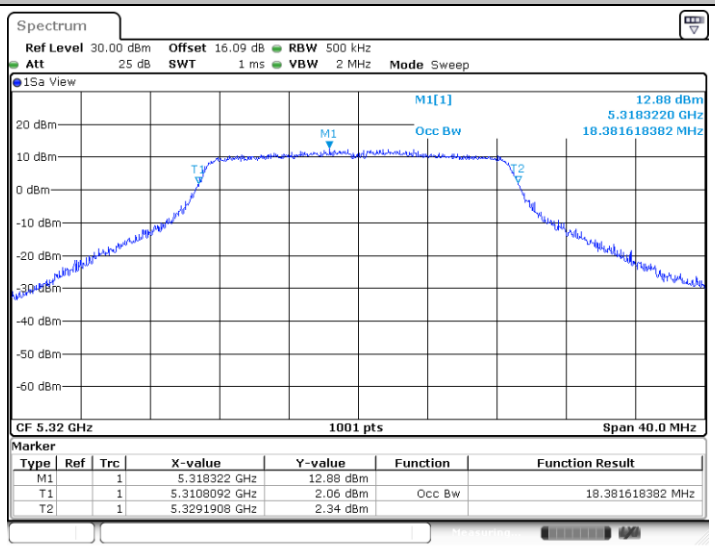

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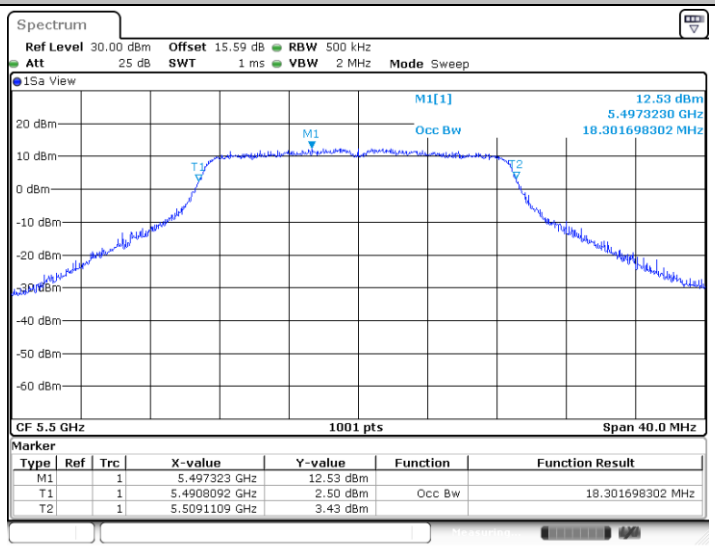

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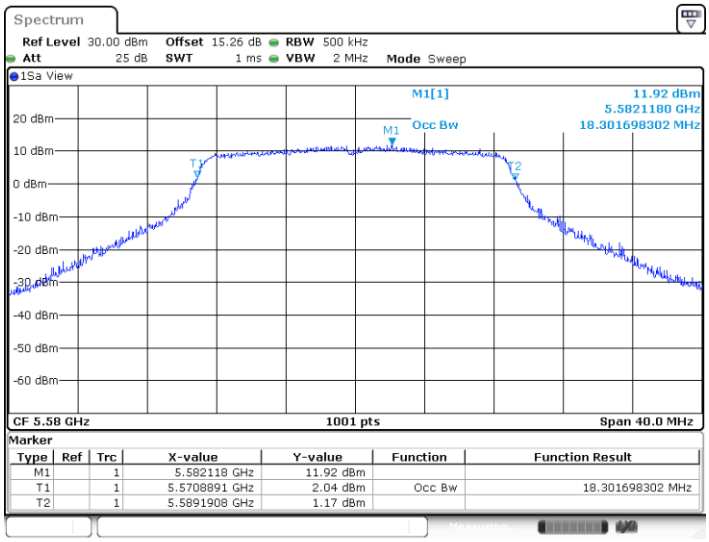

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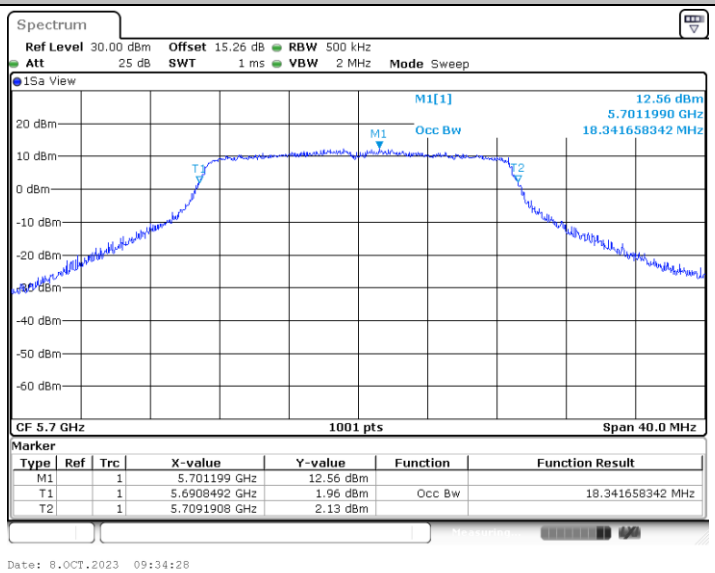

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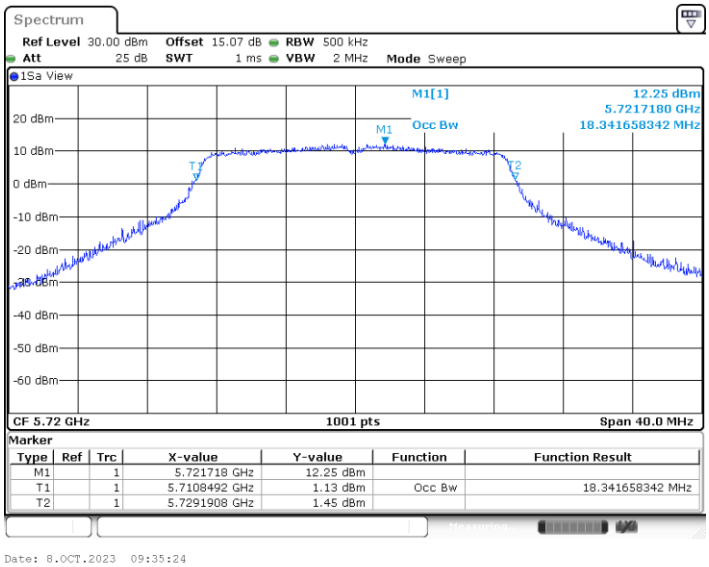

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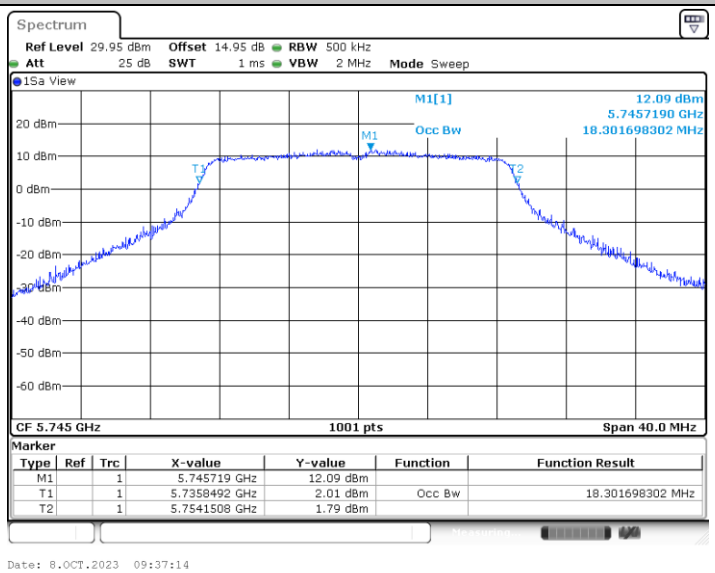

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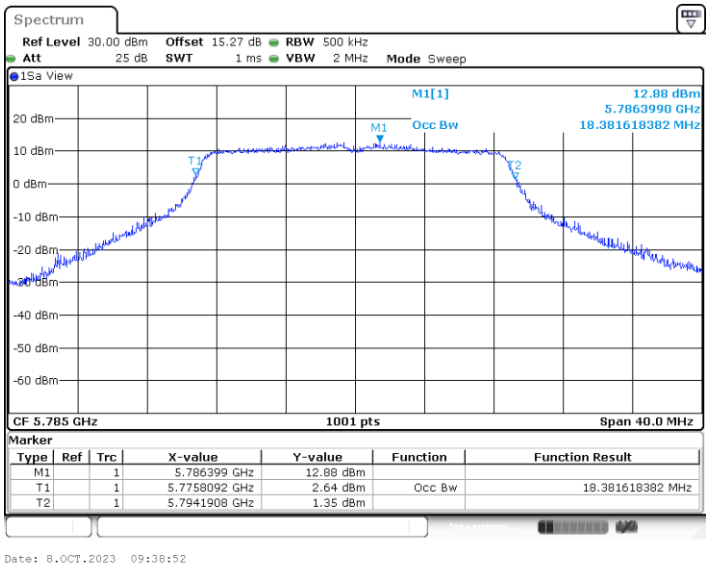

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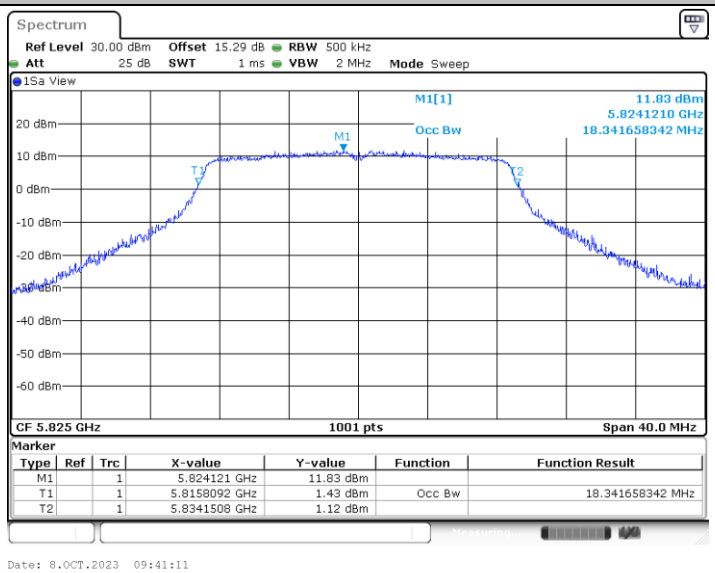

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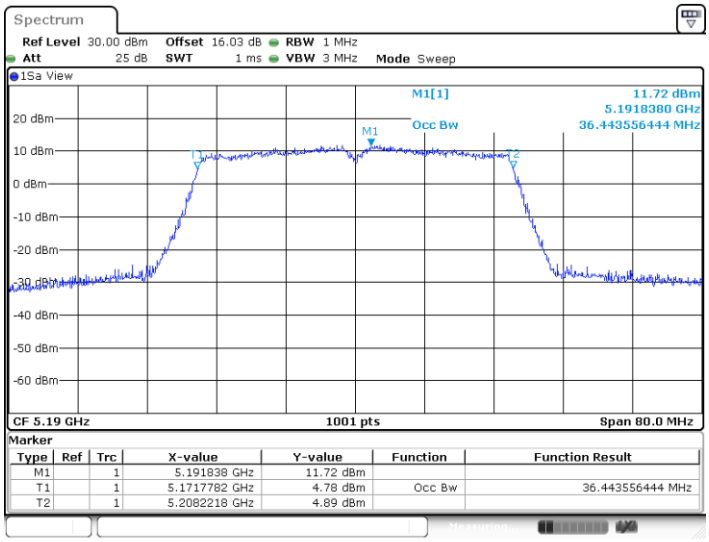

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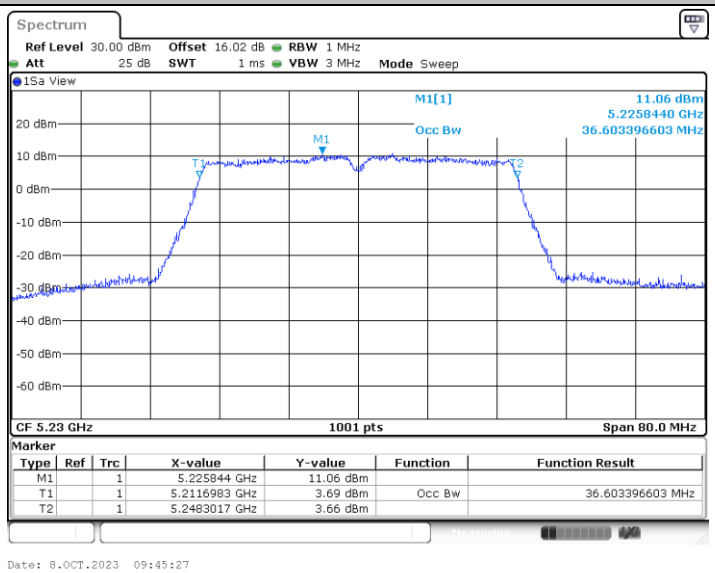

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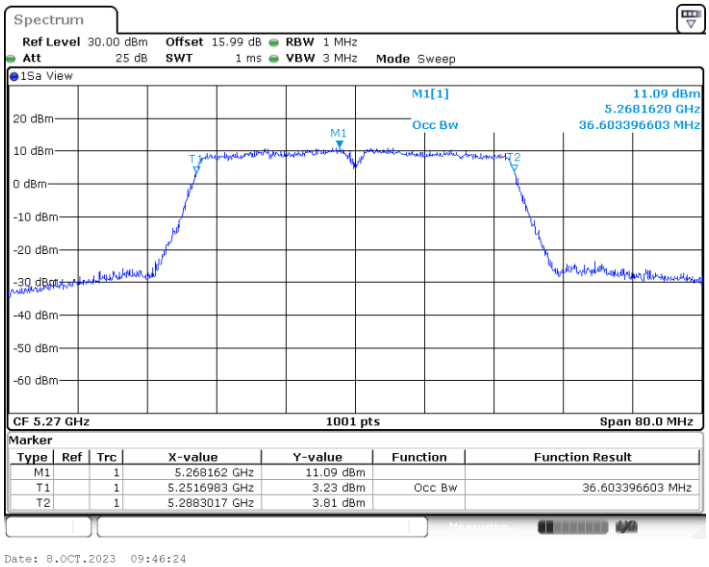

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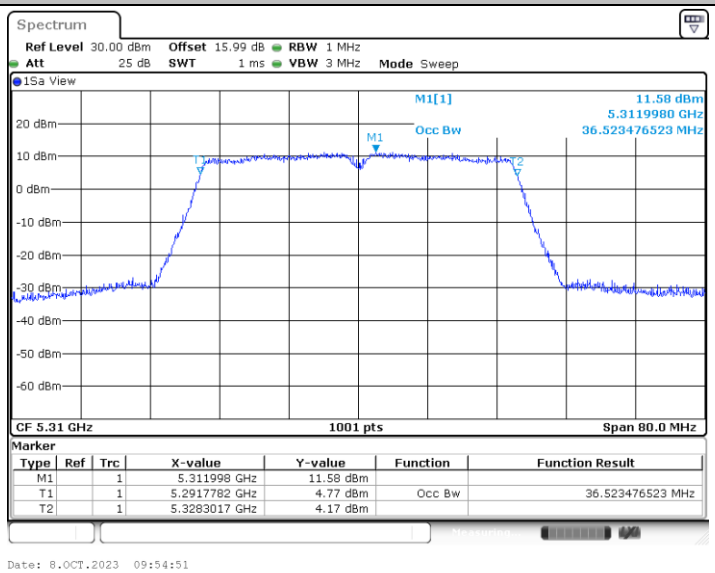

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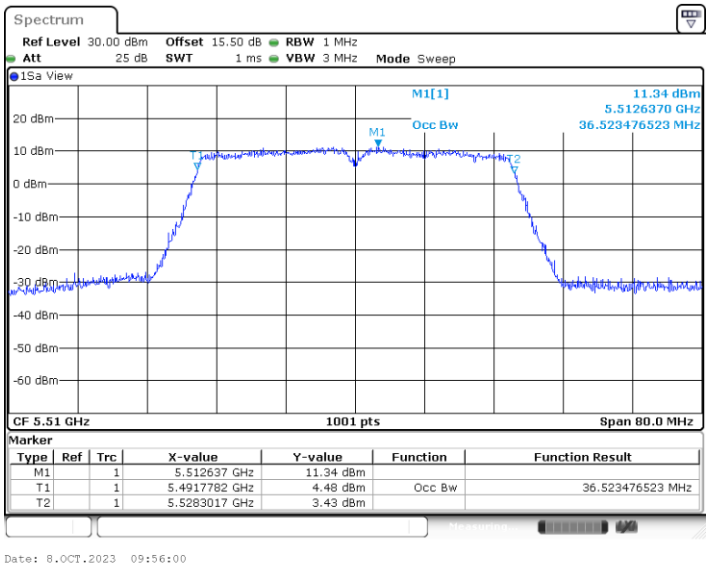

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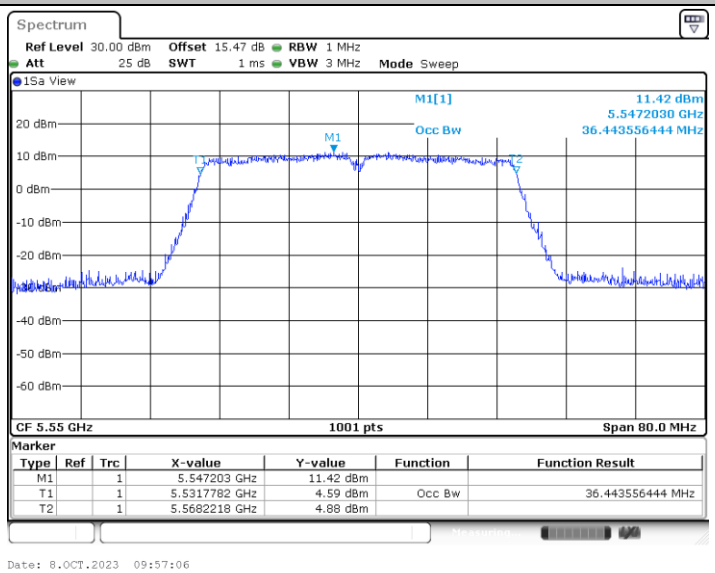

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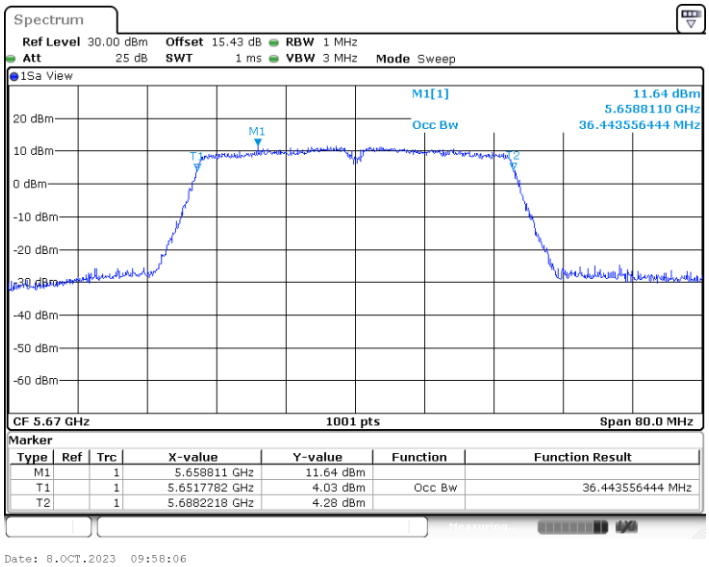

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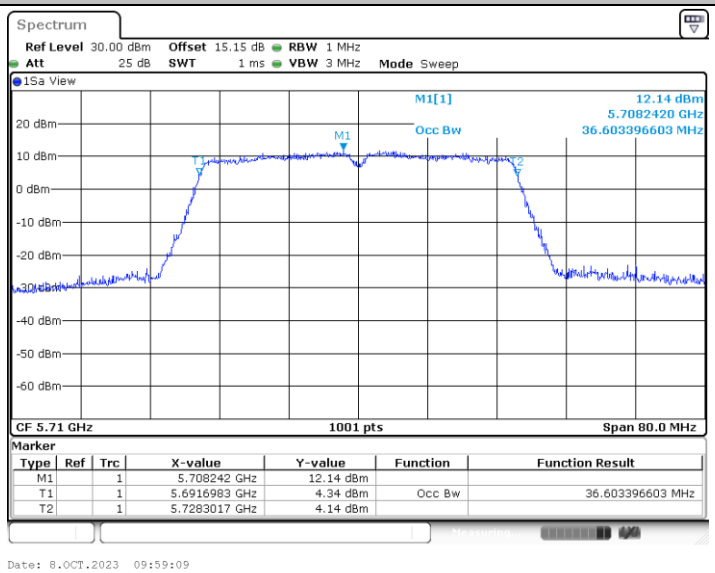

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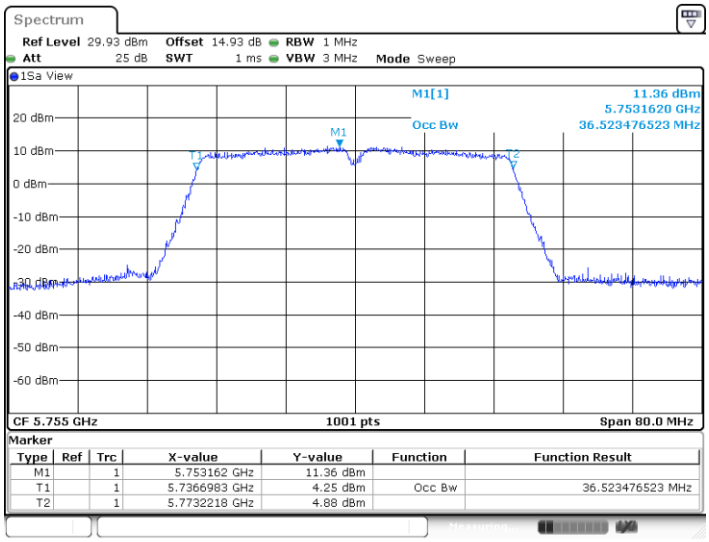

11N40SISO_Ant6_5795