



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2255-3
FCC ID : IHDT56AF8
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Jun. 19, 2022 ~ Jul. 13, 2022

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
FR253103-01E	Rev. 01	Initial issue of report	Jul. 27, 2022

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	-	> 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 3.32 dB at 5350.50 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Pass	Under limit 9.08 dB at 0.212 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



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	XT2255-3
FCC ID	IHDT56AF8
IMEI Code	Conducted: 356510960017232/356510960017240 Radiation: 356510960013835/356510960014296 Conduction: 351523820003958
HW Version	DVT2
SW Version	S3SV32.14
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 ~ 5720 MHz 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	<5180 MHz ~ 5240 MHz> 802.11a : 17.97 dBm / 0.0627 W 802.11n HT20 : 17.76 dBm / 0.0597 W 802.11n HT40 : 16.84 dBm / 0.0483 W 802.11ac VHT20: 17.79 dBm / 0.0601 W 802.11ac VHT40: 16.87 dBm / 0.0486 W 802.11ac VHT80: 14.31 dBm / 0.0270 W <5260 MHz ~ 5320 MHz> 802.11a : 17.90 dBm / 0.0617 W 802.11n HT20 : 17.73 dBm / 0.0593 W 802.11n HT40 : 16.80 dBm / 0.0479 W 802.11ac VHT20: 17.80 dBm / 0.0603 W 802.11ac VHT40: 16.89 dBm / 0.0489 W 802.11ac VHT80: 13.25 dBm / 0.0211 W <5500 MHz ~ 5720 MHz > 802.11a : 17.89 dBm / 0.0615 W 802.11n HT20 : 17.70 dBm / 0.0589 W 802.11n HT40 : 16.78 dBm / 0.0476 W 802.11ac VHT20: 17.76 dBm / 0.0597 W 802.11ac VHT40: 16.83 dBm / 0.0482 W 802.11ac VHT80: 16.45 dBm / 0.0442 W <5745 MHz ~ 5825 MHz> 802.11a : 17.88 dBm / 0.0614 W 802.11n HT20 : 17.73 dBm / 0.0593 W 802.11n HT40 : 16.78 dBm / 0.0476 W 802.11ac VHT20: 17.77 dBm / 0.0598 W 802.11ac VHT40: 16.81 dBm / 0.0480 W 802.11ac VHT80: 16.38 dBm / 0.0435 W
99% Occupied Bandwidth	<5180 MHz ~ 5240 MHz> 802.11a : 17.702 MHz 802.11ac VHT20 : 18.661 MHz 802.11ac VHT40 : 36.763 MHz 802.11ac VHT80 : 75.764 MHz <5260 MHz ~ 5320 MHz> 802.11a : 17.822 MHz 802.11ac VHT20 : 18.581 MHz 802.11ac VHT40 : 36.603 MHz 802.11ac VHT80 : 75.604 MHz <5500 MHz ~ 5720 MHz> 802.11a : 17.862 MHz 802.11ac VHT20 : 18.422 MHz 802.11ac VHT40 : 36.523 MHz 802.11ac VHT80 : 75.604 MHz <5745 MHz ~ 5825 MHz> 802.11a : 17.742 MHz 802.11ac VHT20 : 18.422 MHz 802.11ac VHT40 : 36.523 MHz 802.11ac VHT80 : 75.764 MHz

Antenna Type / Gain	<5180 MHz ~ 5240 MHz> Fixed Internal Antenna with gain -4.30 dBi <5260 MHz ~ 5320 MHz> Fixed Internal Antenna with gain -4.20 dBi <5500 MHz ~ 5720 MHz> Fixed Internal Antenna with gain -4.40 dBi <5745 MHz ~ 5825 MHz> Fixed Internal Antenna with gain -5.40 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 / VHT40 by referring to their higher conducted 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 (Salcomp)	Model Name	MC-331
AC Adapter 1(EU)	Brand Name	Motorola (Salcomp)	Model Name	MC-332
AC Adapter 1(UK)	Brand Name	Motorola (Salcomp)	Model Name	MC-333
AC Adapter 1(IN)	Brand Name	Motorola (Salcomp)	Model Name	MC-334
AC Adapter 1(AR)	Brand Name	Motorola (Salcomp)	Model Name	MC-336
AC Adapter 2(US)	Brand Name	Motorola (Acbel)	Model Name	MC-331
AC Adapter 2(EU)	Brand Name	Motorola (Acbel)	Model Name	MC-332
AC Adapter 2(UK)	Brand Name	Motorola (Acbel)	Model Name	MC-333
AC Adapter 3(US)	Brand Name	Motorola (Chenyang)	Model Name	MC-331
AC Adapter 3(EU)	Brand Name	Motorola (Chenyang)	Model Name	MC-332
AC Adapter 3(AR)	Brand Name	Motorola (Chenyang)	Model Name	MC-336
Battery 1	Brand Name	Motorola (ATL)	Model Name	NE50
Battery 2	Brand Name	Motorola (Sunwoda)	Model Name	NE50
Earphone 1	Brand Name	Motorola (NLD)	Model Name	MH202
Earphone 2	Brand Name	Motorola (Lyand)	Model Name	MH202
USB Cable 1	Brand Name	Motorola (Saibao)	Model Name	SHQ-A110A
USB Cable 2	Brand Name	Motorola (KINGPOWER)	Model Name	K235-07990-H0

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 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH05-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH05-KS	AUDIX	E3	6.2009-8-24a1
2.	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.
- ♦ 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 (Z 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
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

AC Conducted Emission	Mode 1 : GSM850 Idle+ WLAN Link(5G)+ Bluetooth Link+ USB Cable 1(Charging from Adapter1)+ Earphone1
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RSE Simultaneous transmission
802.11a CH64(5320MHz)+ BLE CH39(2480MHz)+ EDGE850 Link

Note:

1. The accessories are from the worst mode of Part 15B report.
2. The RSE Simultaneous transmission mode are from worst WLAN TX & BLE TX & WWAN Link mode.



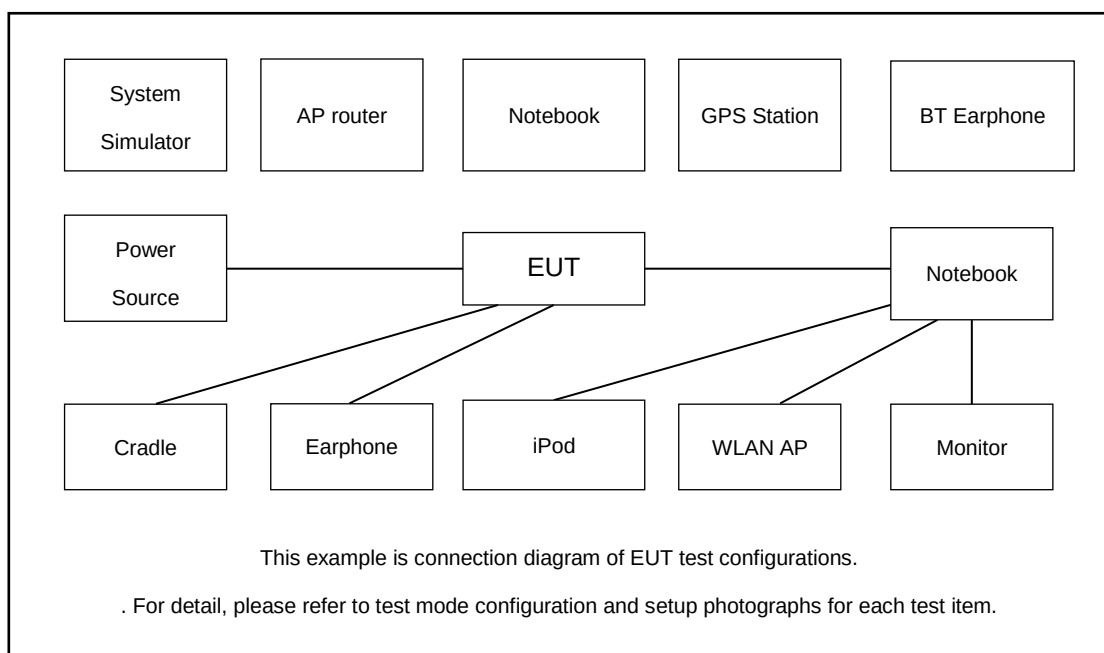
Ch. #		U-NII-1 5180-5240 MHz	U-NII-2A 5260-5320 MHz	U-NII-2C 5500-5720MHz	U-NII-3 5745-5825 MHz
		802.11a	802.11a	802.11a	802.11a
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

Ch. #		U-NII-1 5180-5240 MHz	U-NII-2A 5260-5320 MHz	U-NII-2C 5500-5700MHz	U-NII-3 5745-5825 MHz
		802.11n HT20	802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

Ch. #		U-NII-1 5180-5240 MHz	U-NII-2A 5260-5320 MHz	U-NII-2C 5500-5720MHz	U-NII-3 5745-5825 MHz
		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 5180-5240 MHz	U-NII-2A 5260-5320 MHz	U-NII-2C 5500-5720MHz	U-NII-3 5745-5825 MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106	-
M	Middle	42	58	-	155
H	High	-	-	122	-
Straddle		-	-	138	-

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.	System Simulator	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	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Lenovo	LBH308	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/receive.

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 6.75 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 6.75 + 10 = 16.75 \text{ (dB)}\end{aligned}$$



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

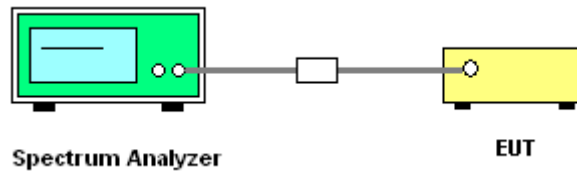
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

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

☒	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW)
	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 1MHz and set the Video bandwidth (VBW) $\geq 3 * RBW$. 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 $\geq 3 * RBW$. 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 $11 \text{ dBm} + 10 \log B$, 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

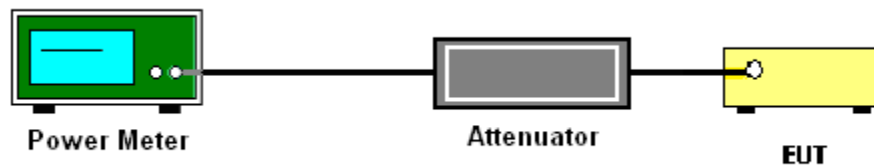
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

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).

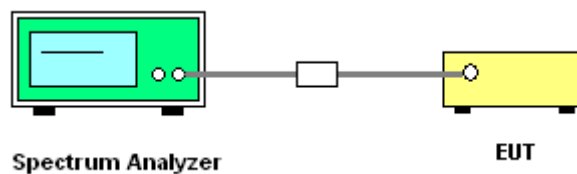
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS

- 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 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 = 500 kHz.
 - 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.
 - 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.

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

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

(4) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

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 and is transmitting at its maximum power control level for the tested mode of operation.

(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.

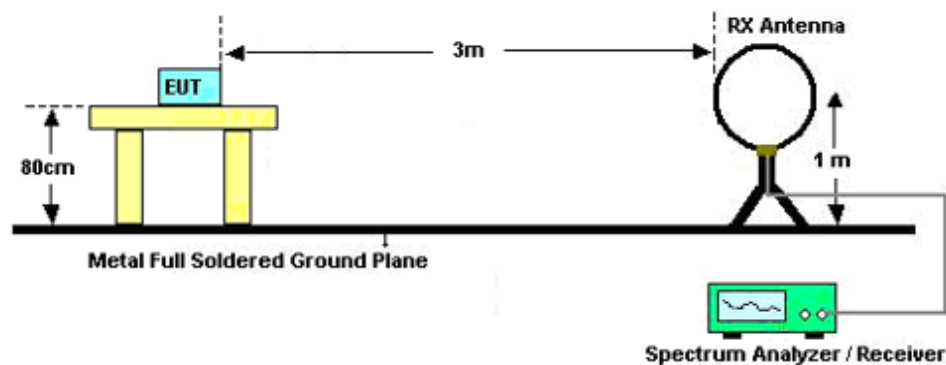
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

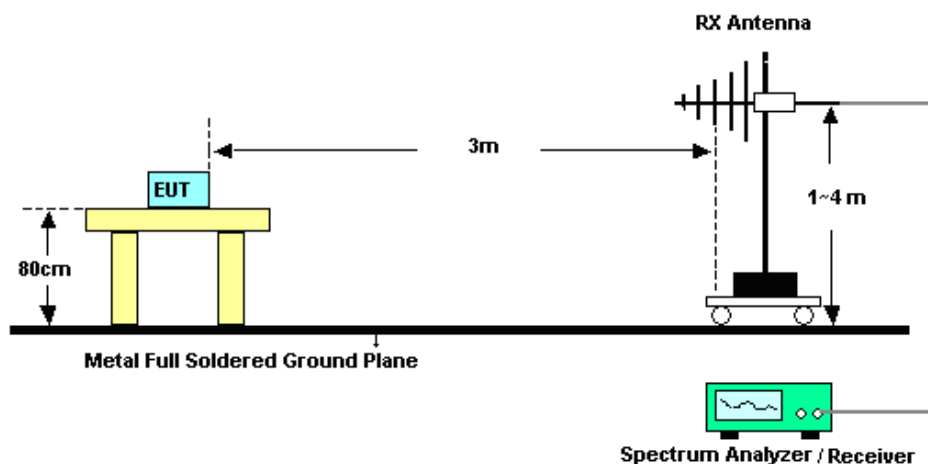
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, 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

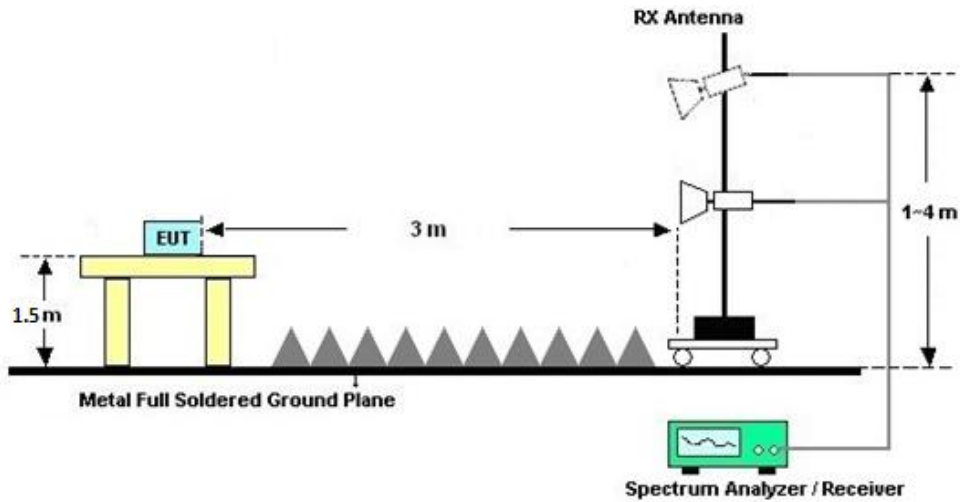
For radiated emissions below 30MHz



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 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 (dB μ V)	
	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.

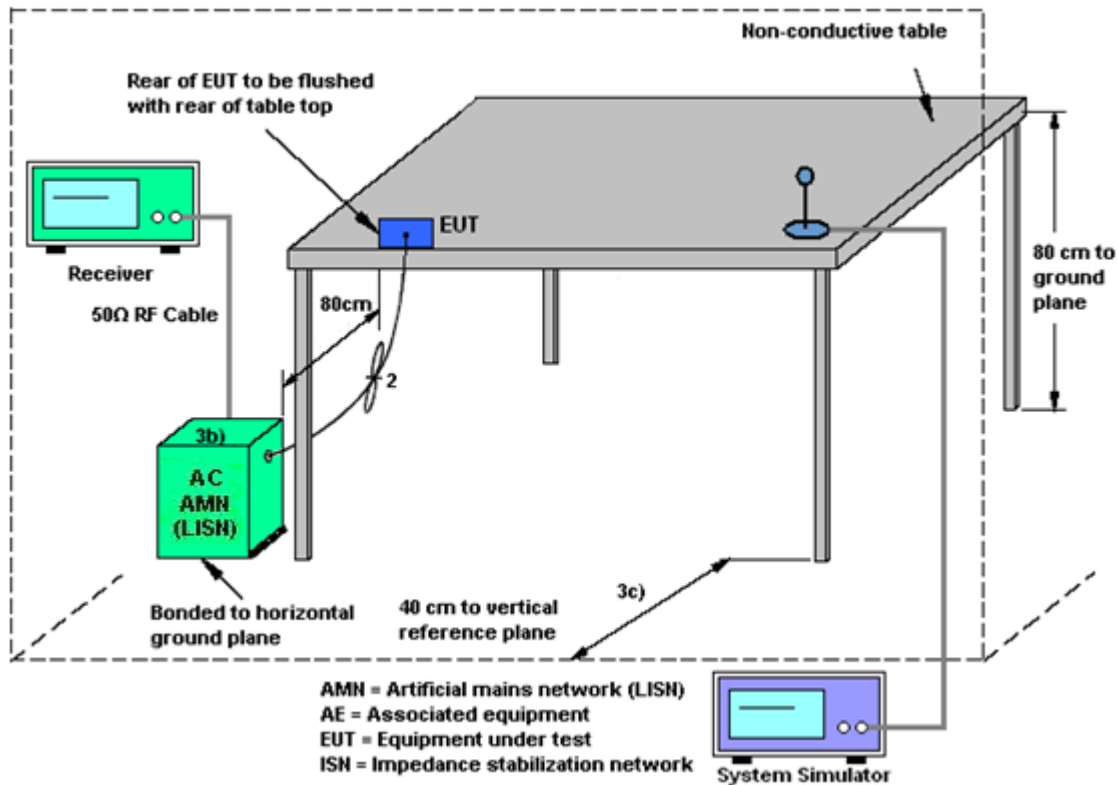
3.5.2 Measuring Instruments

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. 14, 2021	Jul. 05, 2022~ Jul. 06, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	Jul. 05, 2022~ Jul. 06, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Jul. 05, 2022~ Jul. 06, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H20140114 40	-40~+150°C 20%~95%RH	Jul. 12, 2021	Jul. 05, 2022~ Jul. 06, 2022	Jul. 11, 2022	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;Ma x 30dBm	Oct. 16, 2021	Jul. 13, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 44	10Hz~44G,MAX 30dB	Mar. 24, 2022	Jul. 13, 2022	Mar. 23, 2023	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Jul. 13, 2022	Oct. 29, 2022	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	Jun. 04, 2022	Jul. 13, 2022	Jun. 03, 2023	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 08, 2021	Jul. 13, 2022	Nov. 07, 2022	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Jul. 13, 2022	Jan. 04, 2023	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 11, 2022	Jul. 13, 2022	Jul. 10, 2023	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2022	Jul. 13, 2022	Jan. 04, 2023	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-001 01800-30-10 P	2012228	1Ghz~18Ghz	Oct. 16, 2021	Jul. 13, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY532703 16	500MHz~26.5GHz	Oct. 16, 2021	Jul. 13, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F10409000 4	N/A	NCR	Jul. 13, 2022	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 13, 2022	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 13, 2022	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Jun. 19, 2022	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 14, 2021	Jun. 19, 2022	Oct. 13, 2022	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Jun. 19, 2022	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 14, 2021	Jun. 19, 2022	Oct. 13, 2022	Conduction (CO01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

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 Power	±0.56 dB
Conducted Emissions	±0.92 dB
Occupied Channel Bandwidth	±0.03 %
Conducted Power Spectral Density	±0.54 dB

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))	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jiang Jun	Temperature:	21~25	°C
Test Date:	2022.7.5~2022.7.6	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 (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	16.54	-		24.00	-	-4.30	-	Pass
11a	6Mbps	1	44	5220	17.97	-		24.00	-	-4.30	-	Pass
11a	6Mbps	1	48	5240	17.91	-		24.00	-	-4.30	-	Pass
HT20	MCS0	1	36	5180	16.24	-		24.00	-	-4.30	-	Pass
HT20	MCS0	1	44	5220	17.76	-		24.00	-	-4.30	-	Pass
HT20	MCS0	1	48	5240	17.74	-		24.00	-	-4.30	-	Pass
HT40	MCS0	1	38	5190	15.32	-		24.00	-	-4.30	-	Pass
HT40	MCS0	1	46	5230	16.84	-		24.00	-	-4.30	-	Pass
VHT20	MCS0	1	36	5180	16.30	-		24.00	-	-4.30	-	Pass
VHT20	MCS0	1	44	5220	17.77	-		24.00	-	-4.30	-	Pass
VHT20	MCS0	1	48	5240	17.79	-		24.00	-	-4.30	-	Pass
VHT40	MCS0	1	38	5190	15.36	-		24.00	-	-4.30	-	Pass
VHT40	MCS0	1	46	5230	16.87	-		24.00	-	-4.30	-	Pass
VHT80	MCS0	1	42	5210	14.31	-		24.00	-	-4.30	-	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 (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	17.88	-		23.94	-	-4.20	-	26.99	Pass
11a	6Mbps	1	60	5300	17.90	-		23.96	-	-4.20	-	26.99	Pass
11a	6Mbps	1	64	5320	16.85	-		23.96	-	-4.20	-	26.99	Pass
HT20	MCS0	1	52	5260	17.72	-		23.98	-	-4.20	-	26.99	Pass
HT20	MCS0	1	60	5300	17.73	-		23.98	-	-4.20	-	26.99	Pass
HT20	MCS0	1	64	5320	16.23	-		23.98	-	-4.20	-	26.99	Pass
HT40	MCS0	1	54	5270	16.80	-		23.98	-	-4.20	-	26.99	Pass
HT40	MCS0	1	62	5310	14.86	-		23.98	-	-4.20	-	26.99	Pass
VHT20	MCS0	1	52	5260	17.75	-		23.98	-	-4.20	-	26.99	Pass
VHT20	MCS0	1	60	5300	17.80	-		23.98	-	-4.20	-	26.99	Pass
VHT20	MCS0	1	64	5320	16.29	-		23.98	-	-4.20	-	26.99	Pass
VHT40	MCS0	1	54	5270	16.89	-		23.98	-	-4.20	-	26.99	Pass
VHT40	MCS0	1	62	5310	14.92	-		23.98	-	-4.20	-	26.99	Pass
VHT80	MCS0	1	58	5290	13.25	-		23.98	-	-4.20	-	26.99	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 1	Ant 1	Ant 1		
11a	6Mbps	1	100	5500	17.86	23.96	-4.40	26.99	Pass
11a	6Mbps	1	116	5580	17.89	23.94	-4.40	26.99	Pass
11a	6Mbps	1	140	5700	16.80	23.94	-4.40	26.99	Pass
HT20	MCS0	1	100	5500	17.69	23.98	-4.40	26.99	Pass
HT20	MCS0	1	116	5580	17.70	23.98	-4.40	26.99	Pass
HT20	MCS0	1	140	5700	16.14	23.98	-4.40	26.99	Pass
HT40	MCS0	1	102	5510	15.89	23.98	-4.40	26.99	Pass
HT40	MCS0	1	110	5550	16.78	23.98	-4.40	26.99	Pass
HT40	MCS0	1	134	5670	16.75	23.98	-4.40	26.99	Pass
VHT20	MCS0	1	100	5500	17.74	23.98	-4.40	26.99	Pass
VHT20	MCS0	1	116	5580	17.76	23.98	-4.40	26.99	Pass
VHT20	MCS0	1	140	5700	16.18	23.98	-4.40	26.99	Pass
VHT40	MCS0	1	102	5510	15.98	23.98	-4.40	26.99	Pass
VHT40	MCS0	1	110	5550	16.83	23.98	-4.40	26.99	Pass
VHT40	MCS0	1	134	5670	16.79	23.98	-4.40	26.99	Pass
VHT80	MCS0	1	106	5530	14.48	23.98	-4.40	26.99	Pass
VHT80	MCS0	1	122	5610	16.45	23.98	-4.40	26.99	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 1	Ant 1	Ant 1		
11a	6Mbps	1	144	5720	17.81	23.96	-4.40	26.99	Pass
HT20	MCS0	1	144	5720	17.67	23.98	-4.40	26.99	Pass
HT40	MCS0	1	142	5710	16.76	23.98	-4.40	26.99	Pass
VHT20	MCS0	1	144	5720	17.68	23.98	-4.40	26.99	Pass
VHT40	MCS0	1	142	5710	16.81	23.98	-4.40	26.99	Pass
VHT80	MCS0	1	138	5690	16.38	23.98	-4.40	26.99	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power	FCC Conducted Power Limit	DG (dBi)		Pass/Fail
					Ant 1	Ant 1	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	17.83	30.00	-5.40	—	Pass
11a	6Mbps	1	157	5785	17.82	30.00	-5.40	—	Pass
11a	6Mbps	1	165	5825	17.88	30.00	-5.40	—	Pass
HT20	MCS0	1	149	5745	17.72	30.00	-5.40	—	Pass
HT20	MCS0	1	157	5785	17.73	30.00	-5.40	—	Pass
HT20	MCS0	1	165	5825	17.70	30.00	-5.40	—	Pass
HT40	MCS0	1	151	5755	16.78	30.00	-5.40	—	Pass
HT40	MCS0	1	159	5795	16.76	30.00	-5.40	—	Pass
VHT20	MCS0	1	149	5745	17.74	30.00	-5.40	—	Pass
VHT20	MCS0	1	157	5785	17.76	30.00	-5.40	—	Pass
VHT20	MCS0	1	165	5825	17.77	30.00	-5.40	—	Pass
VHT40	MCS0	1	151	5755	16.80	30.00	-5.40	—	Pass
VHT40	MCS0	1	159	5795	16.81	30.00	-5.40	—	Pass
VHT80	MCS0	1	155	5775	16.38	30.00	-5.40	—	Pass



Emission Bandwidth

Test Result

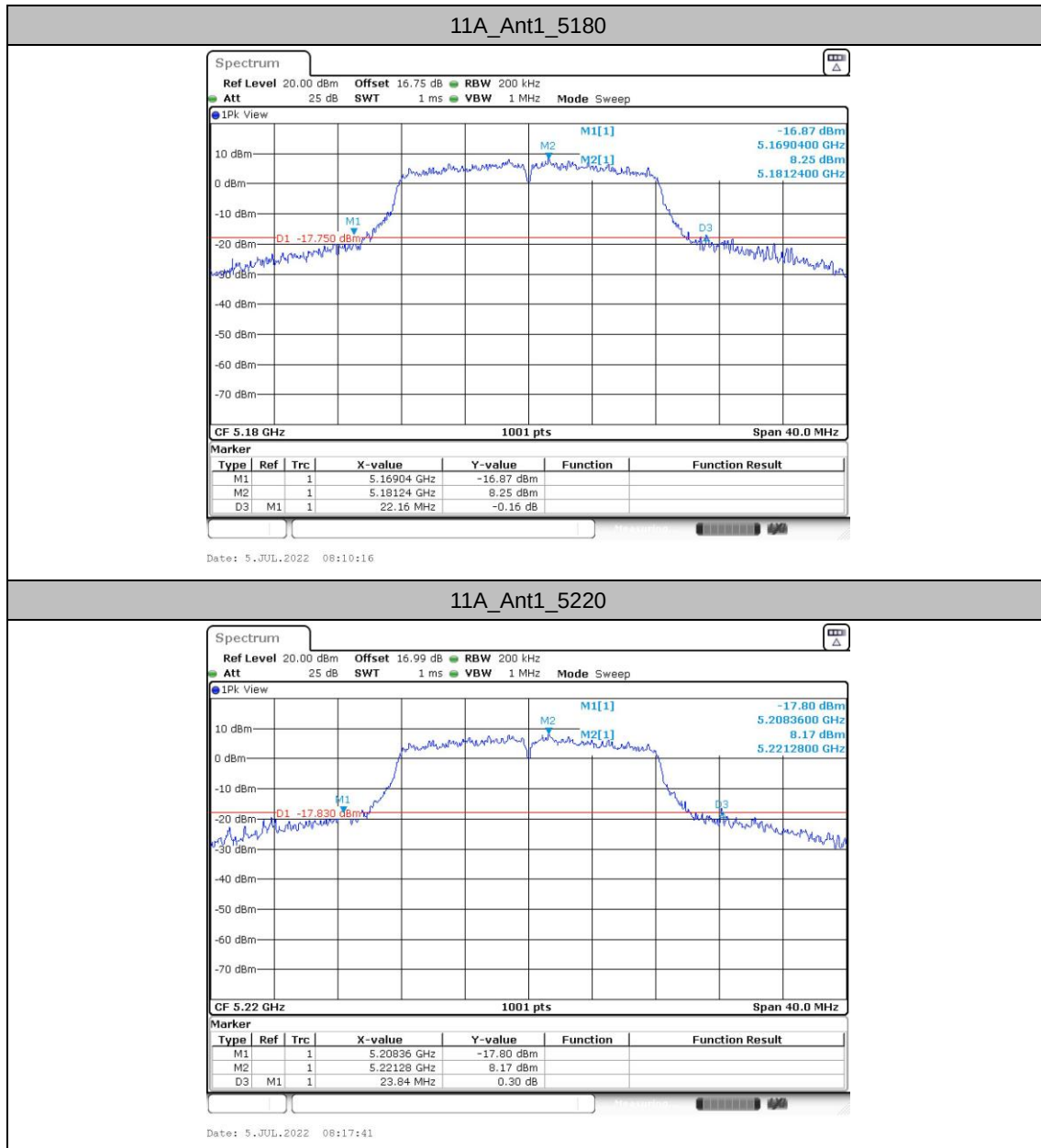
TestMode	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	5180	22.16	5169.04	5191.20	---	---
	5220	23.84	5208.36	5232.20	---	---
	5240	22.20	5228.68	5250.88	---	---
	5260	23.48	5247.04	5270.52	---	---
	5300	22.72	5288.92	5311.64	---	---
	5320	22.82	5308.92	5331.98	---	---
	5500	19.88	5490.00	5509.88	---	---
	5580	21.56	5569.36	5590.92	---	---
	5700	27.40	5685.44	5712.84	---	---
	5720	24.12	5707.32	5731.44	---	---
	5745	23.20	5733.68	5756.88	---	---
	5785	20.00	5775.00	5795.00	---	---
	5825	23.44	5813.28	5836.72	---	---
11AC20SISO	5180	21.64	5169.40	5191.04	---	---
	5220	24.52	5207.84	5232.36	---	---
	5240	25.08	5227.48	5252.56	---	---
	5260	22.72	5249.24	5271.96	---	---
	5300	26.04	5286.24	5312.28	---	---
	5320	25.12	5308.96	5334.08	---	---
	5500	22.52	5488.28	5510.80	---	---
	5580	22.40	5568.88	5591.28	---	---
	5700	20.80	5689.84	5710.64	---	---
	5720	22.68	5708.88	5731.56	---	---
	5745	21.16	5734.80	5755.96	---	---
	5785	21.08	5774.92	5796.00	---	---
	5825	22.24	5813.56	5835.80	---	---
11AC40SISO	5190	50.96	5168.72	5219.68	---	---
	5230	52.16	5201.92	5254.08	---	---
	5270	46.32	5247.12	5293.44	---	---
	5310	42.32	5289.52	5331.84	---	---
	5510	40.80	5489.60	5530.40	---	---
	5550	45.68	5529.44	5575.12	---	---
	5670	49.20	5649.44	5698.64	---	---



	5710	45.04	5687.28	5732.32	---	---
	5755	42.88	5733.64	5776.52	---	---
	5795	47.60	5768.12	5815.72	---	---
11AC80SISO	5210	92.80	5162.16	5254.96	---	---
	5290	101.92	5236.56	5338.48	---	---
	5530	115.20	5473.20	5588.40	---	---
	5610	92.32	5559.60	5651.92	---	---
	5690	103.52	5649.68	5753.20	---	---
	5775	95.36	5720.28	5815.64	---	---

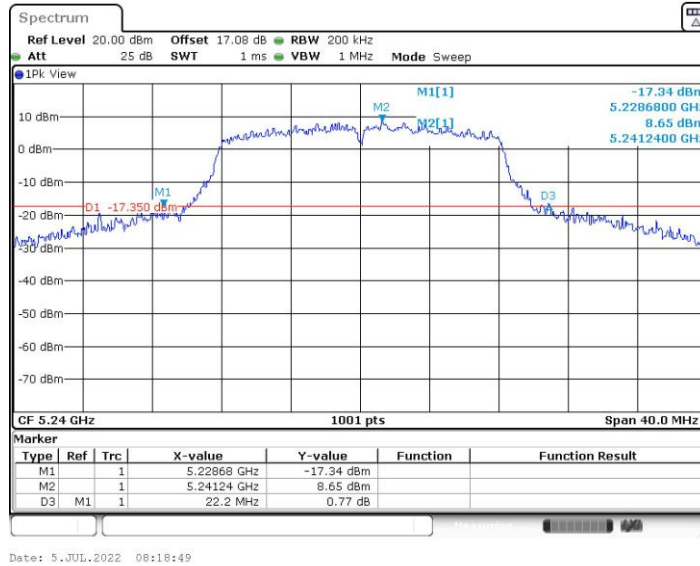


Test Graphs

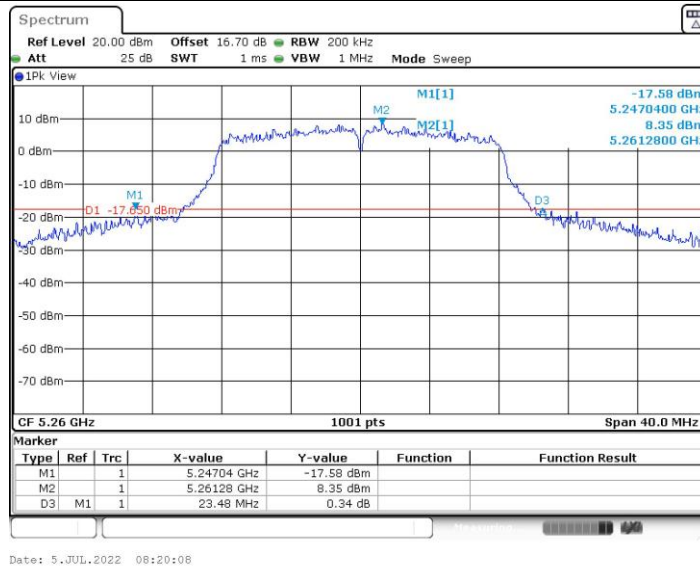




11A_Ant1_5240

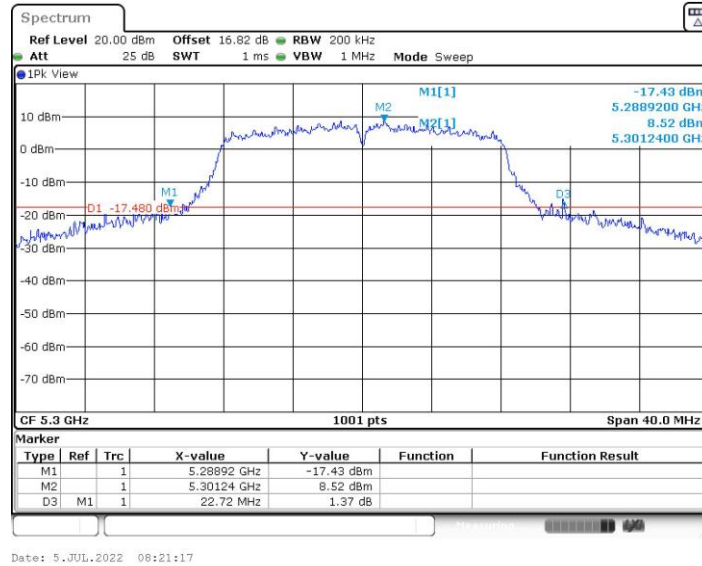


11A_Ant1_5260

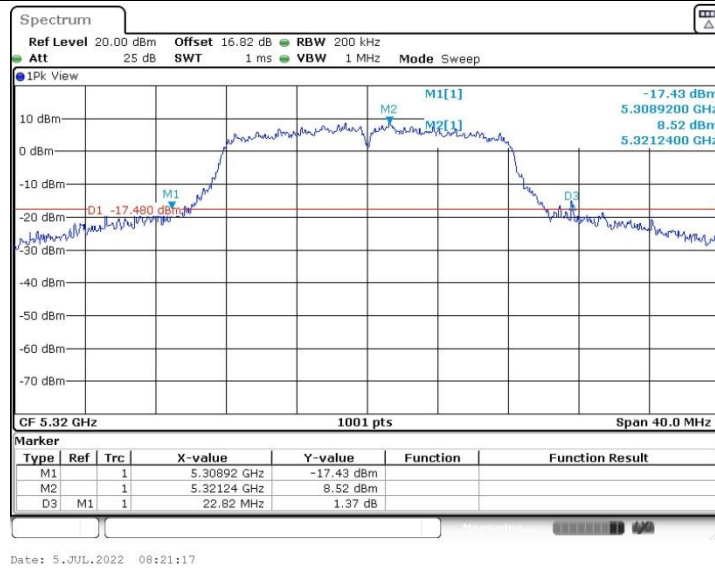




11A_Ant1_5300

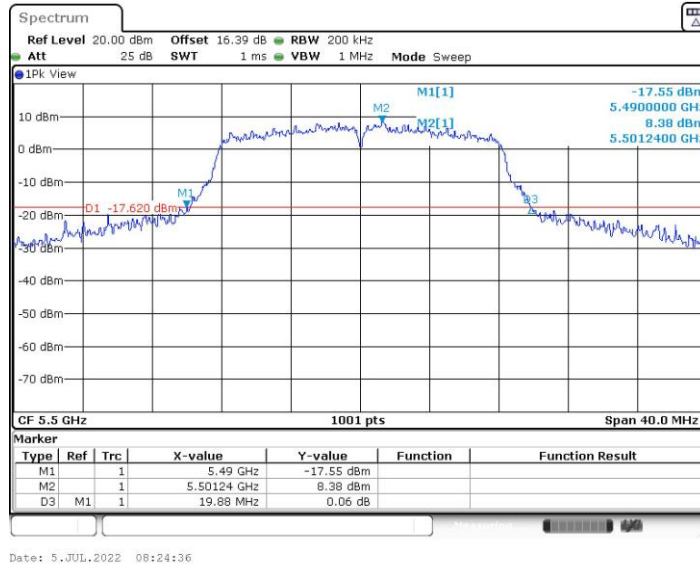


11A_Ant1_5320

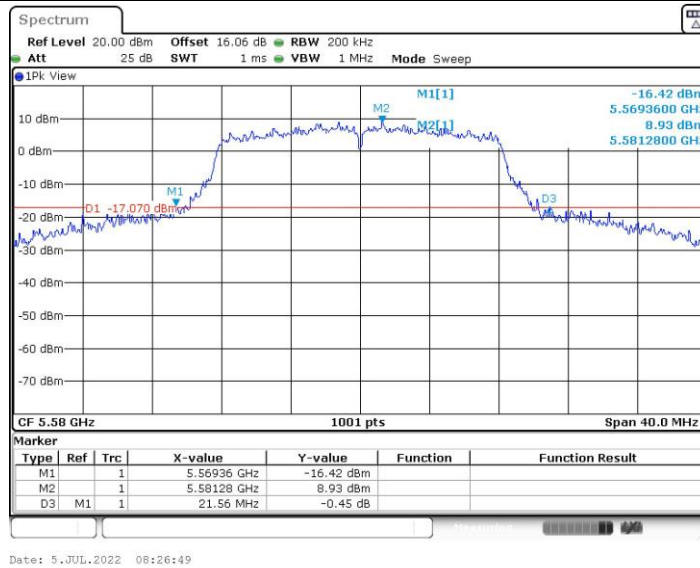




11A_Ant1_5500

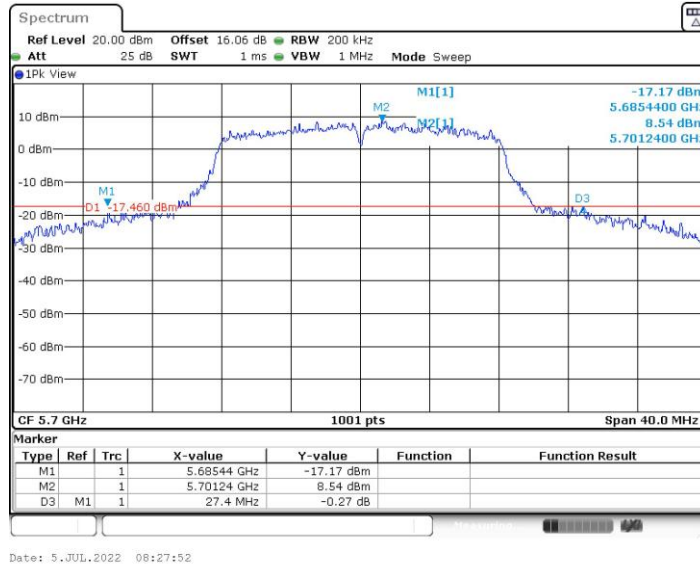


11A_Ant1_5580

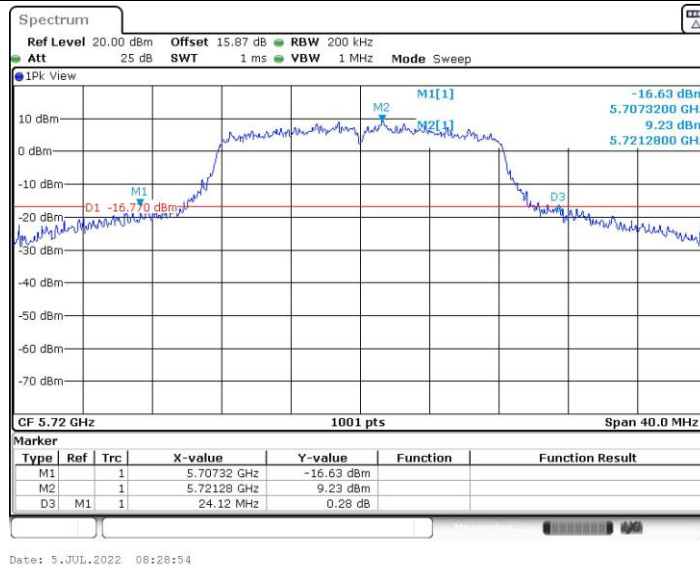




11A_Ant1_5700

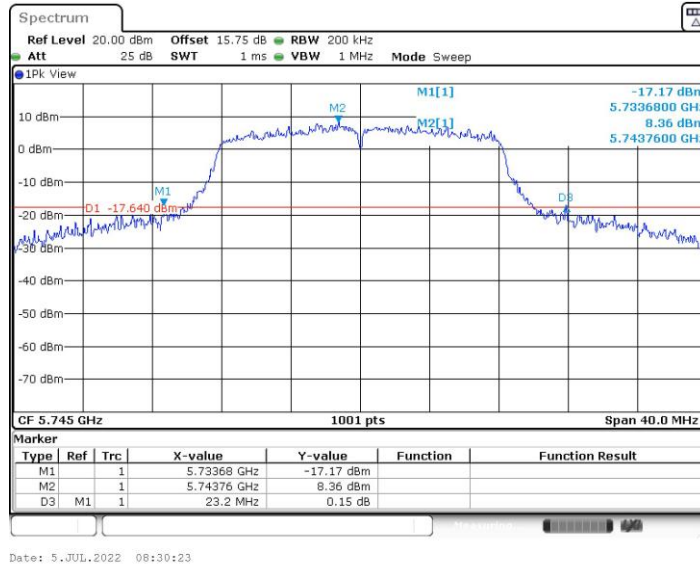


11A_Ant1_5720

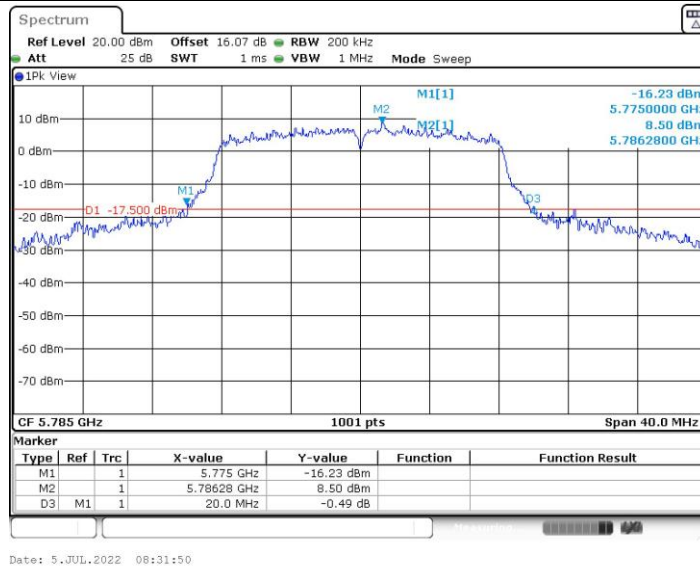




11A_Ant1_5745

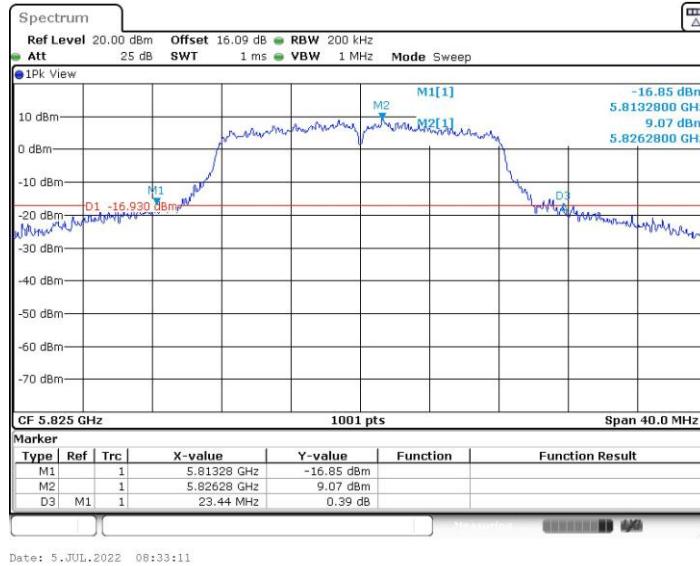


11A_Ant1_5785

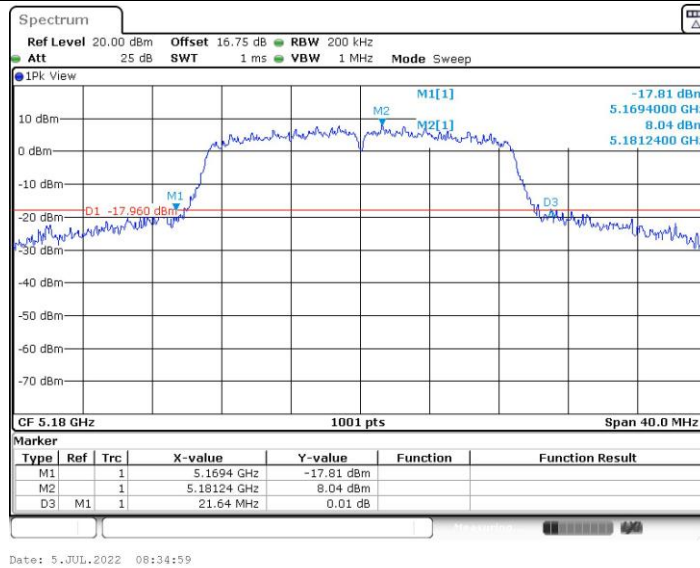




11A_Ant1_5825

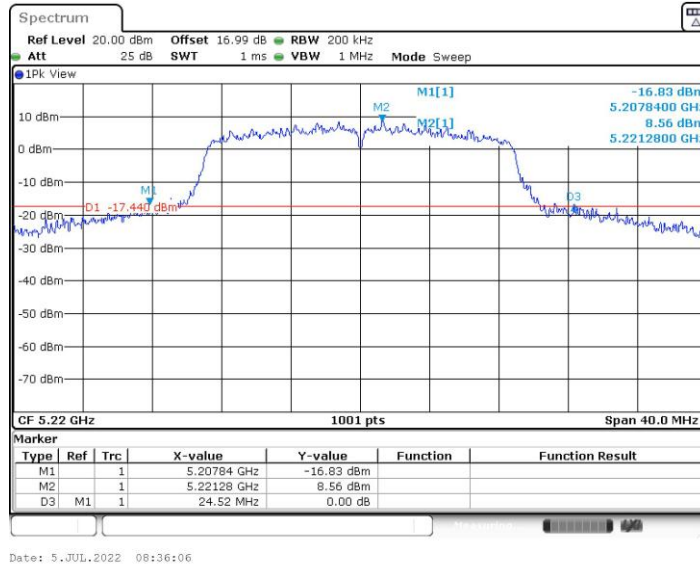


11AC20SiSO_Ant1_5180

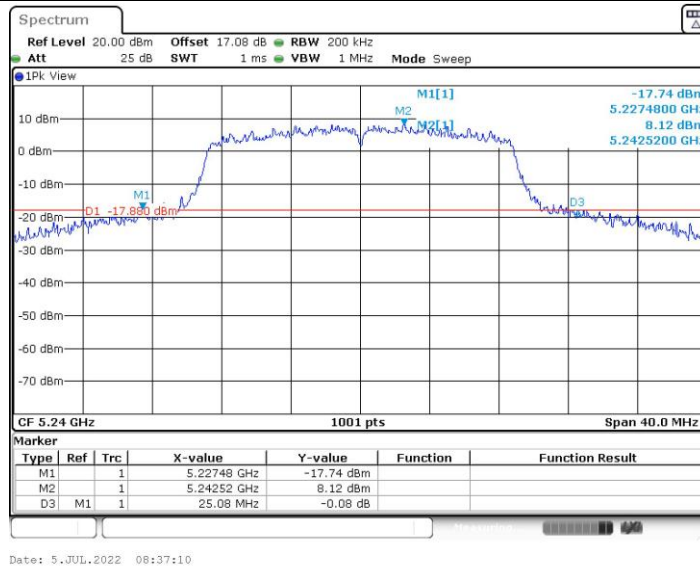




11AC20SISO_Ant1_5220

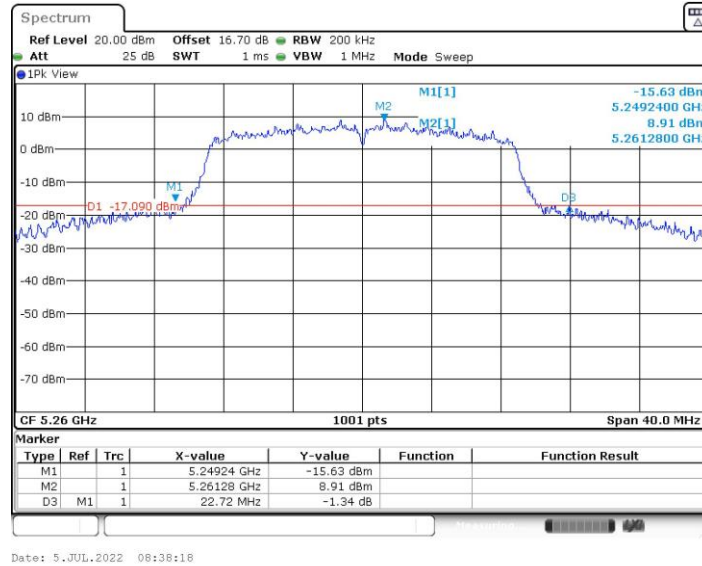


11AC20SISO_Ant1_5240

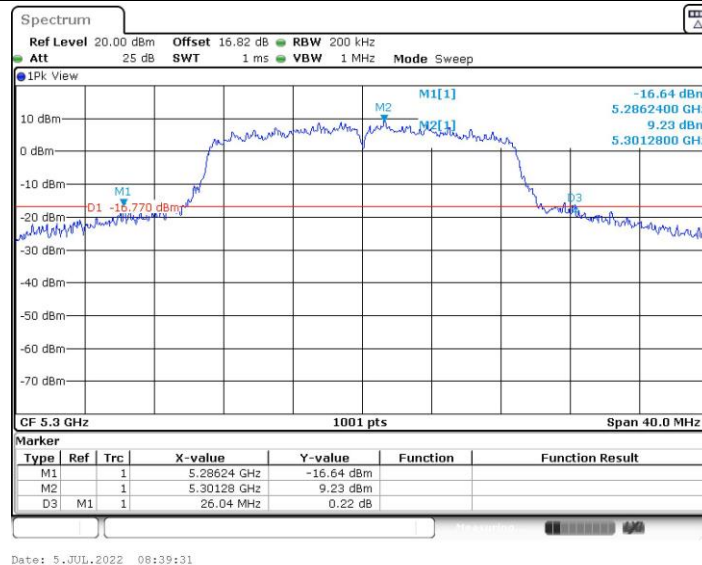




11AC20SiSO_Ant1_5260

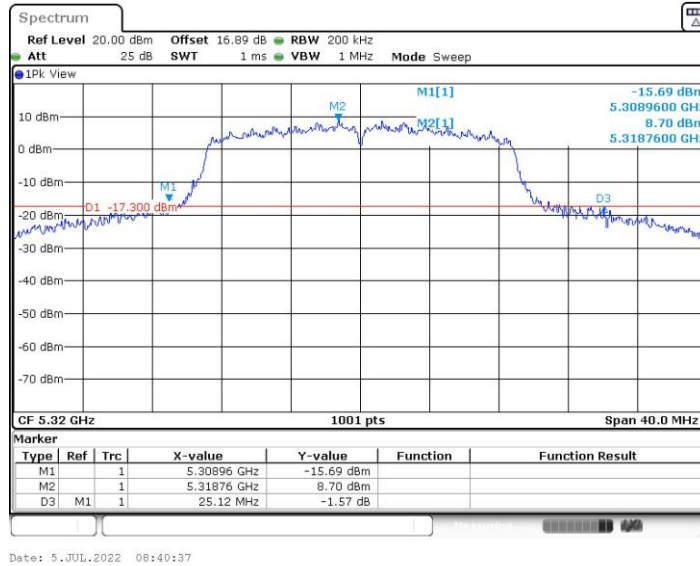


11AC20SiSO_Ant1_5300

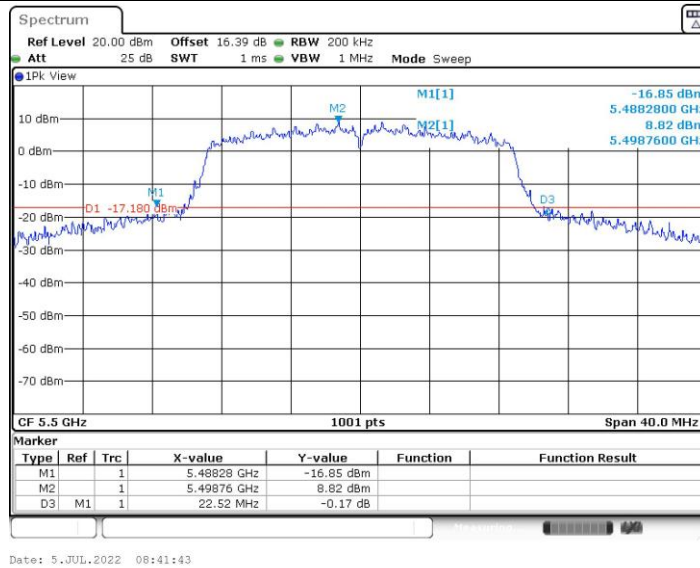




11AC20SISO_Ant1_5320

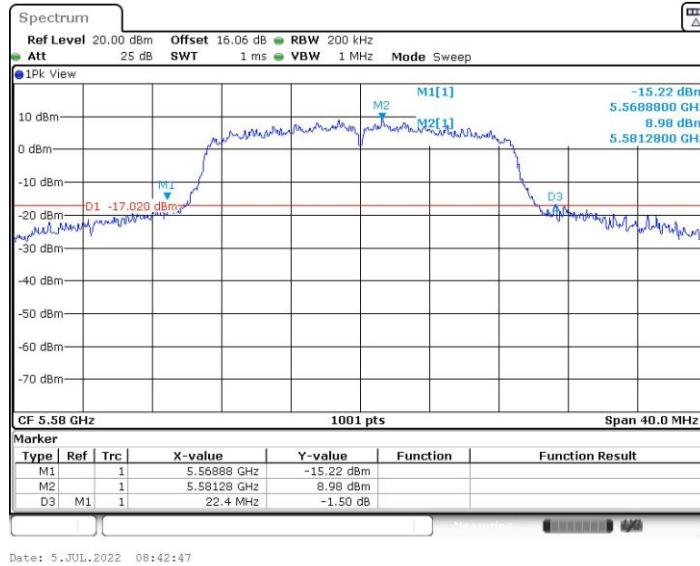


11AC20SISO_Ant1_5500

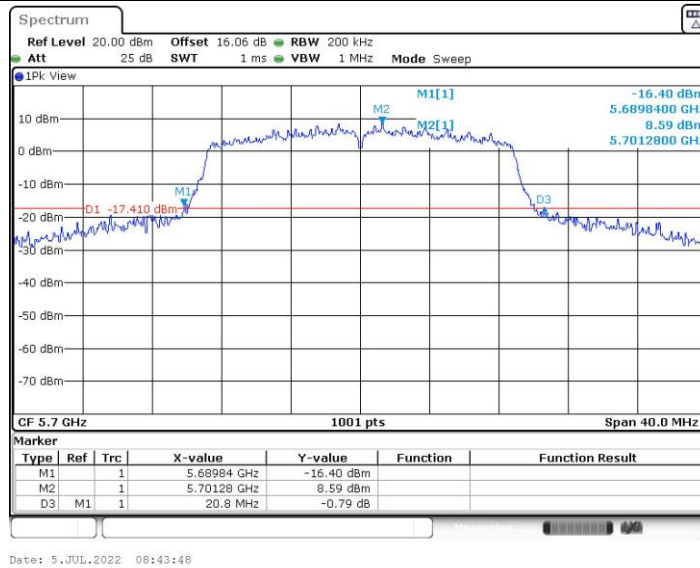




11AC20SiSO_Ant1_5580

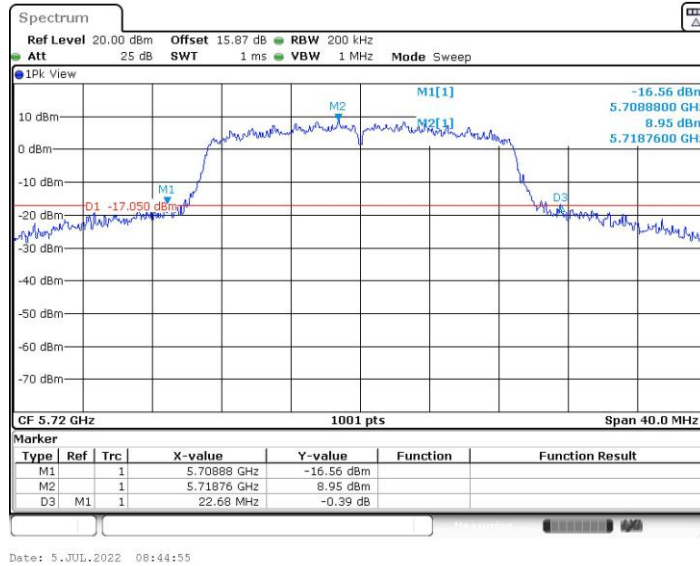


11AC20SiSO_Ant1_5700

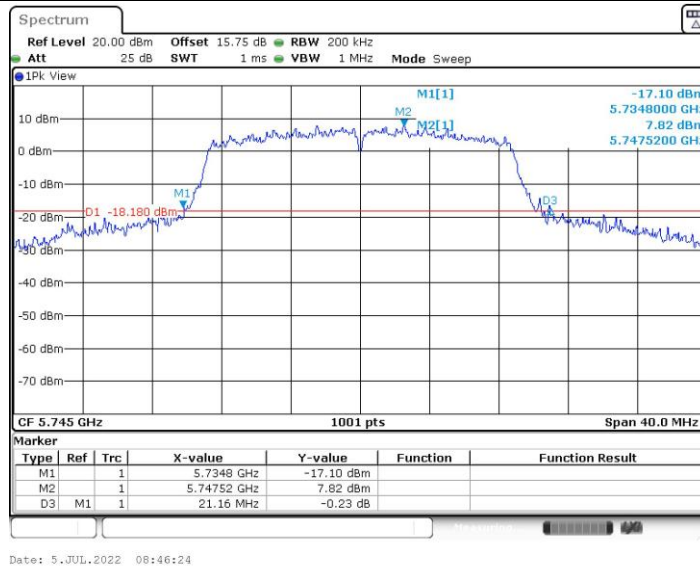




11AC20SISO_Ant1_5720

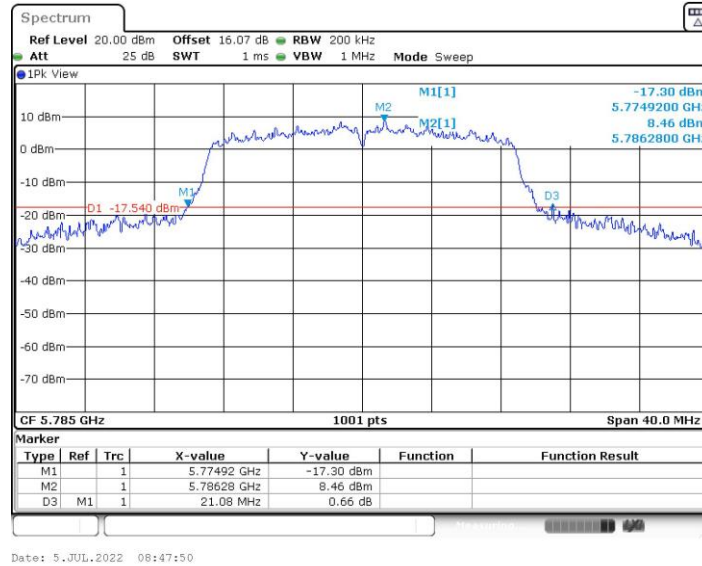


11AC20SISO_Ant1_5745

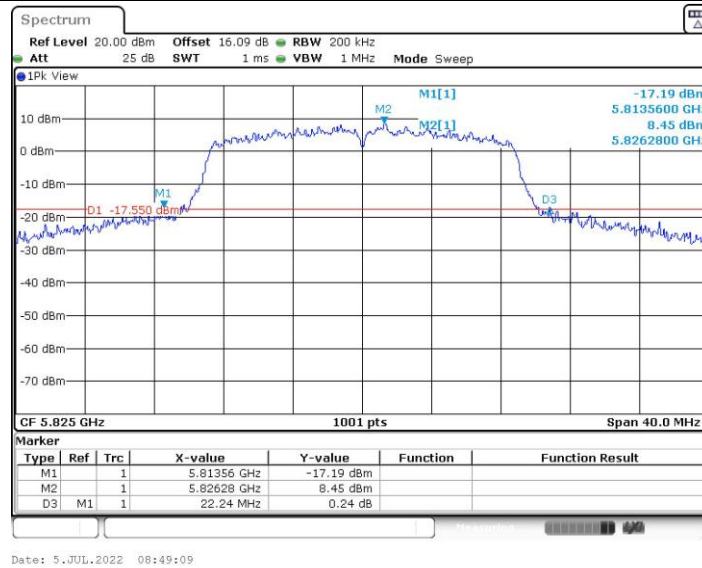




11AC20SISO_Ant1_5785

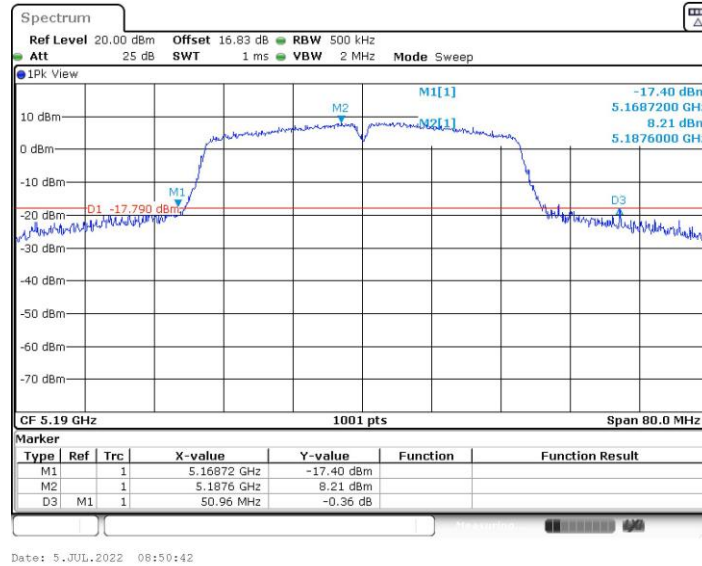


11AC20SISO_Ant1_5825

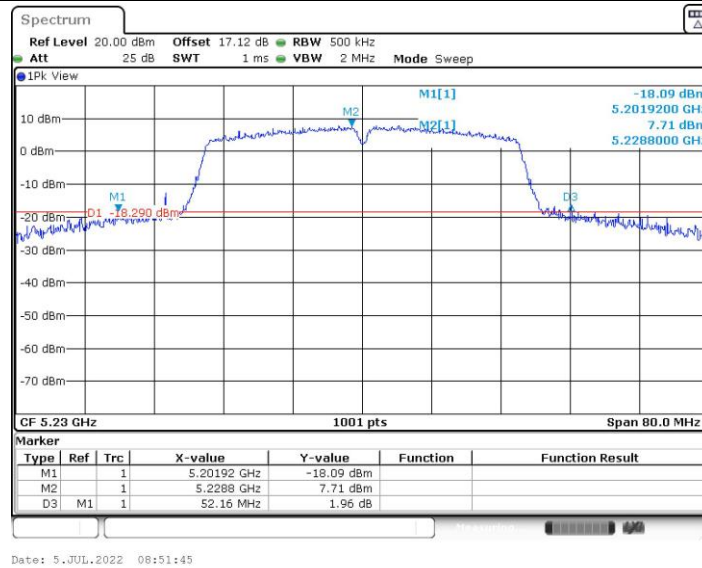




11AC40SISO_Ant1_5190

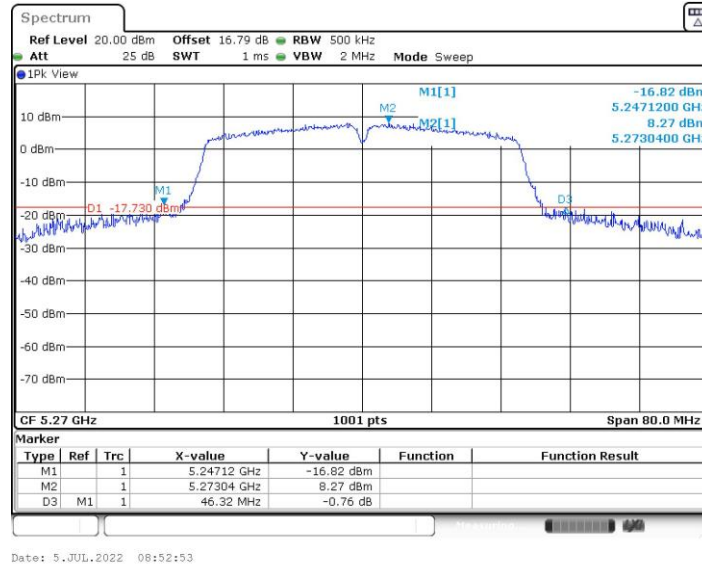


11AC40SISO_Ant1_5230

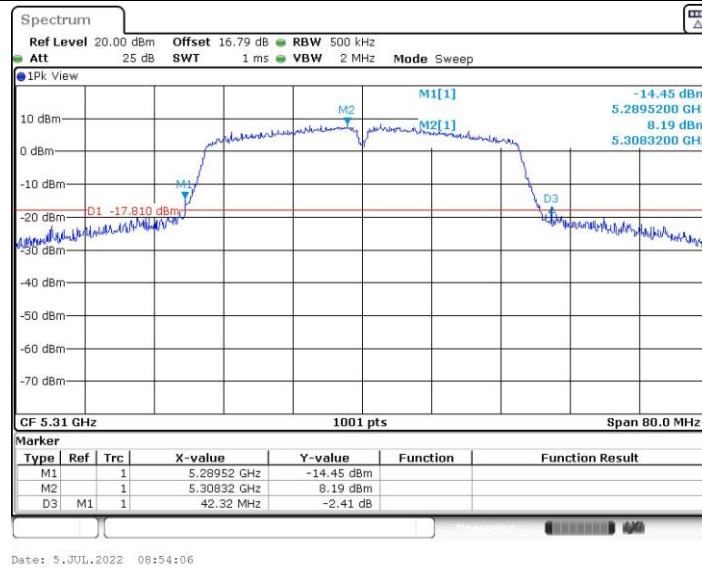




11AC40SiSO_Ant1_5270

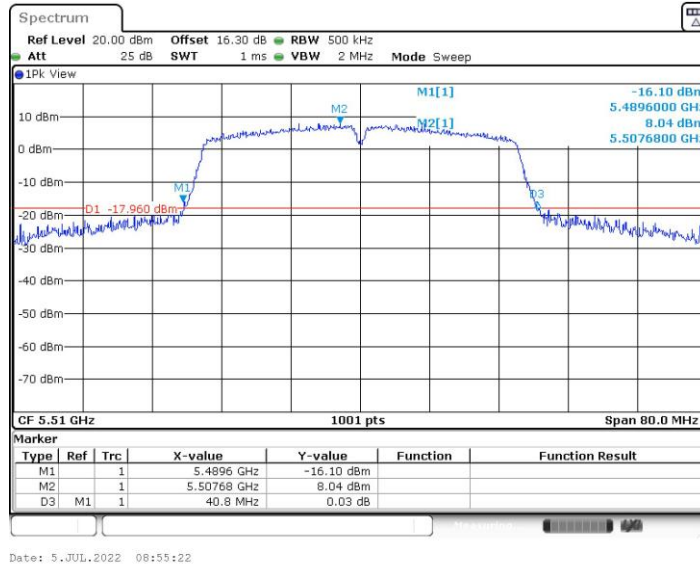


11AC40SiSO_Ant1_5310

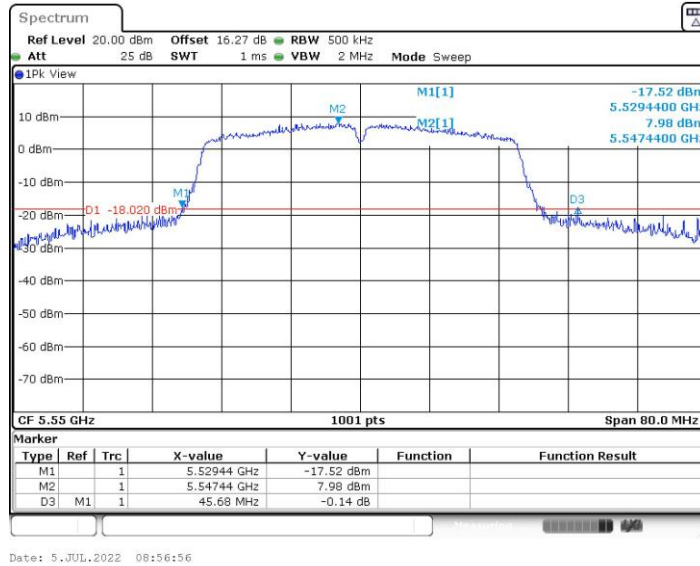




11AC40SISO_Ant1_5510

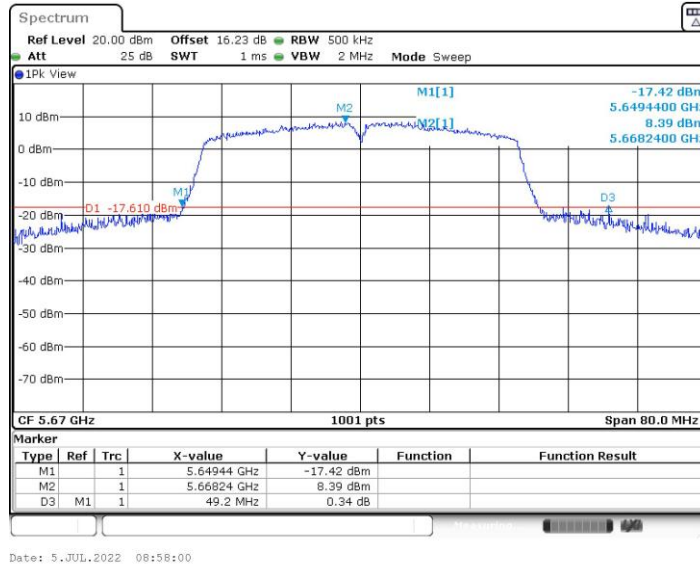


11AC40SISO_Ant1_5550

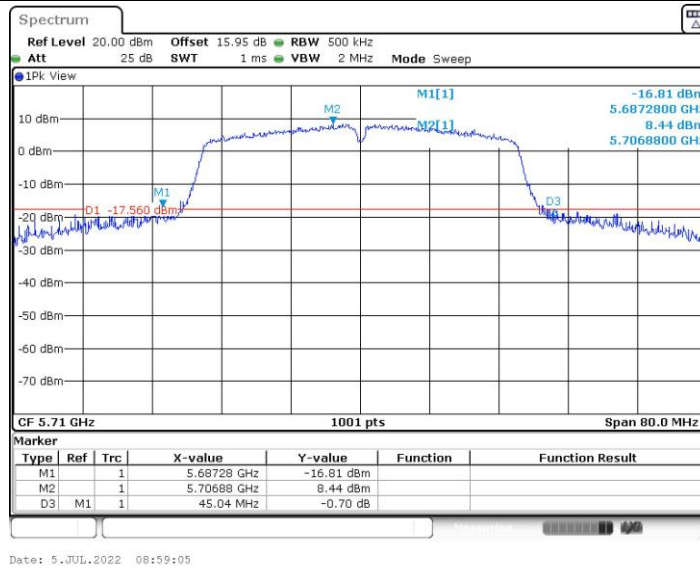




11AC40SiSO_Ant1_5670

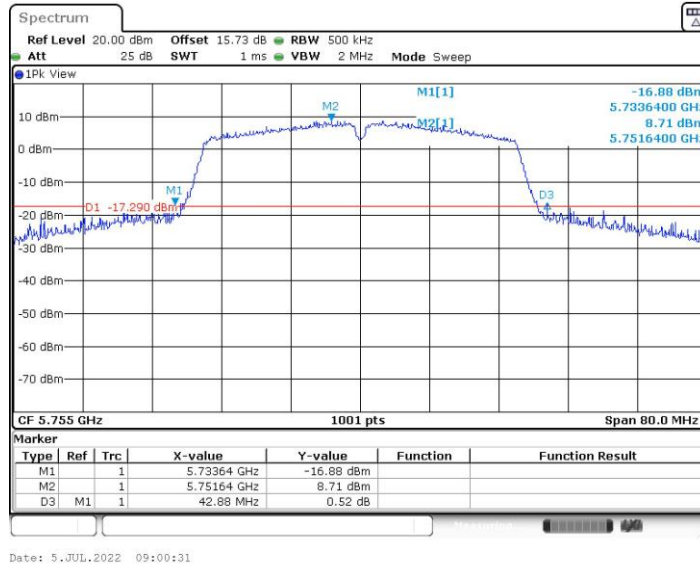


11AC40SiSO_Ant1_5710

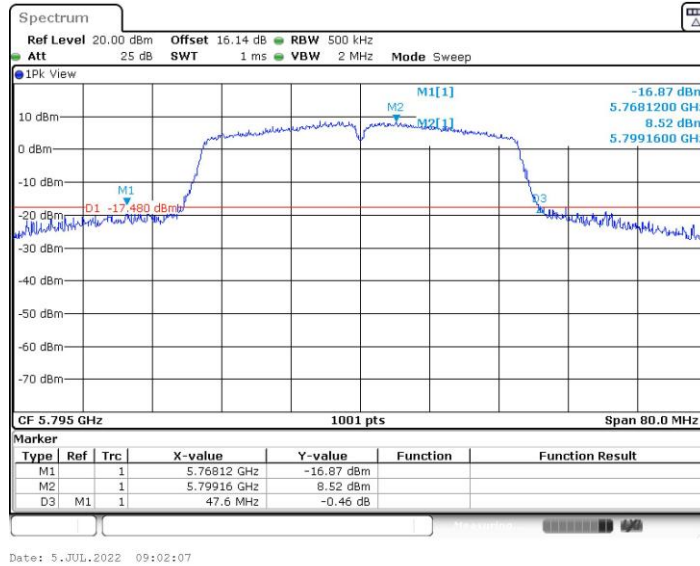




11AC40SISO_Ant1_5755

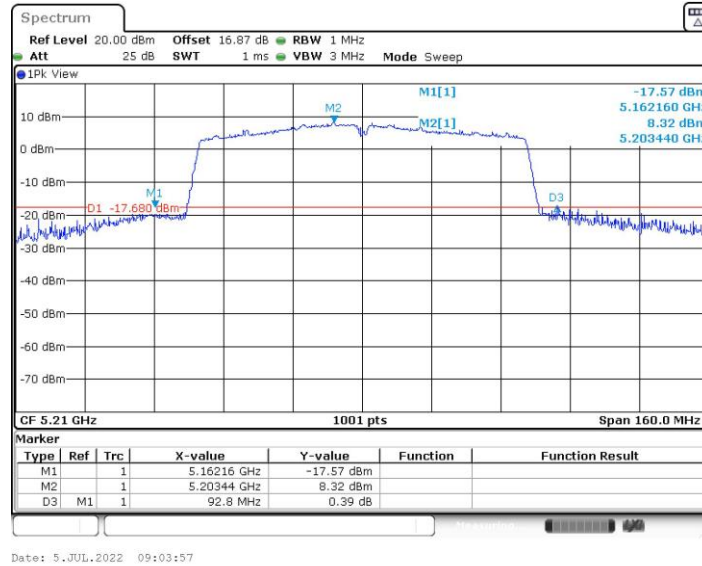


11AC40SISO_Ant1_5795

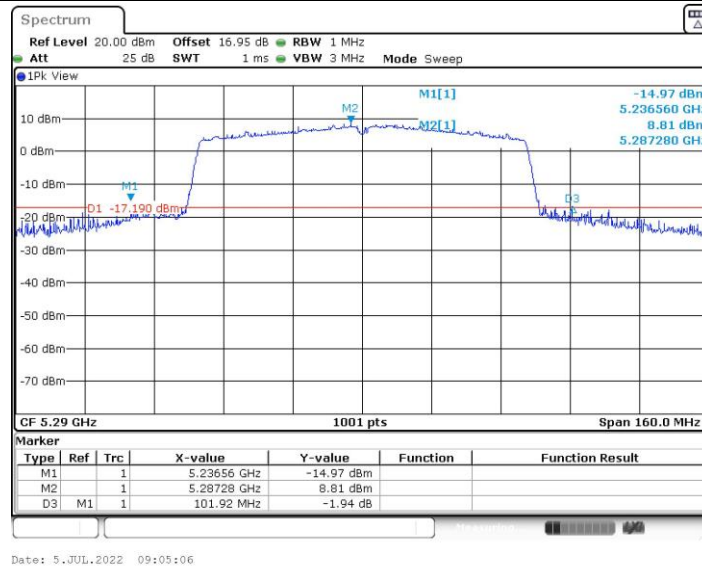




11AC80SISO_Ant1_5210

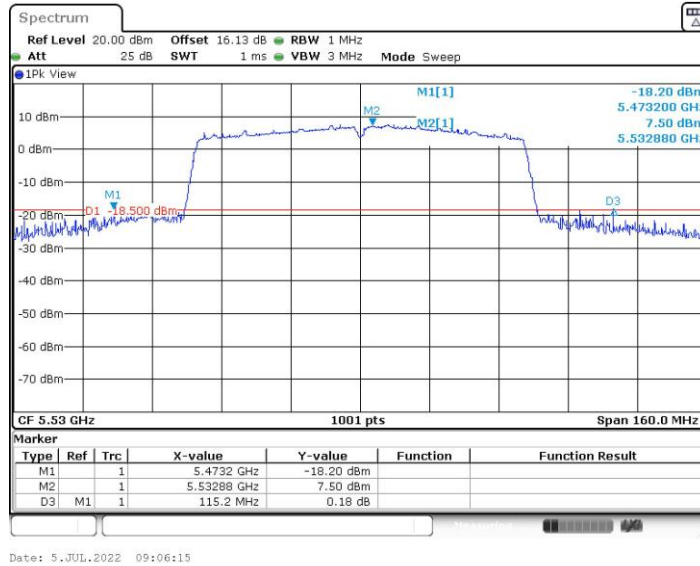


11AC80SISO_Ant1_5290

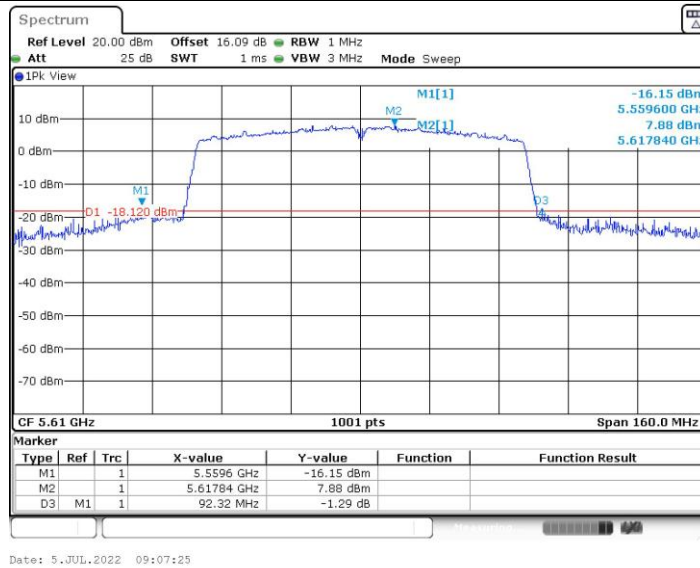




11AC80SISO_Ant1_5530

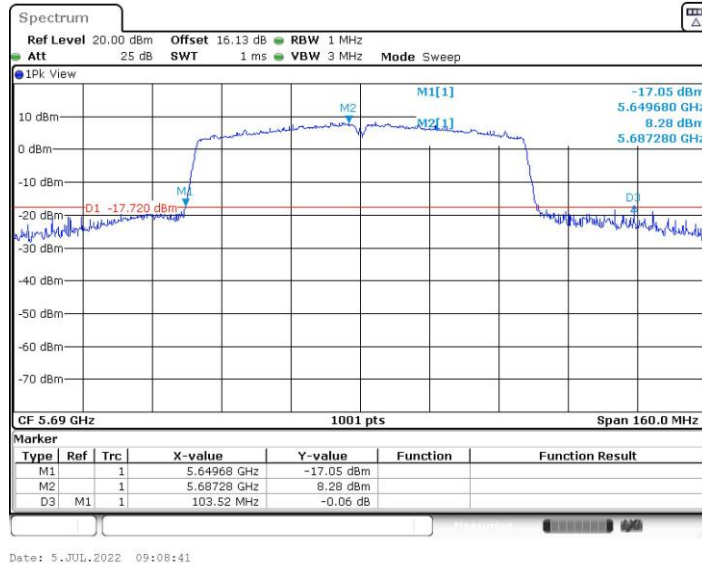


11AC80SISO_Ant1_5610

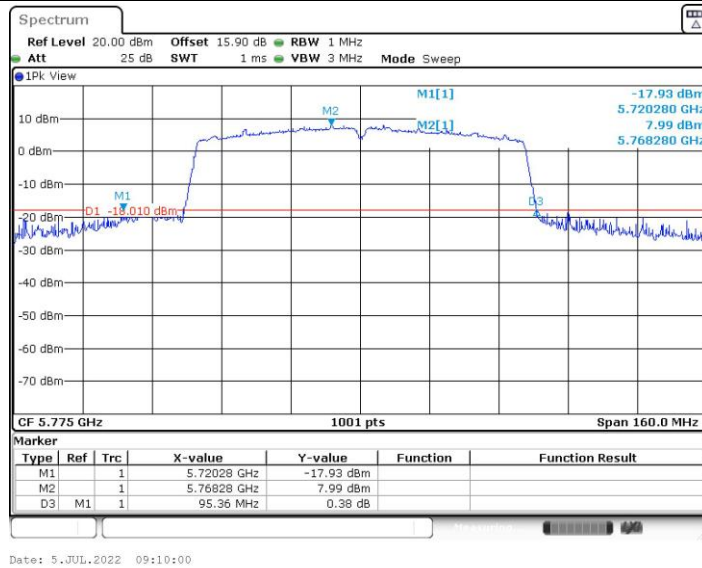




11AC80SISO_Ant1_5690



11AC80SISO_Ant1_5775





Occupied channel bandwidth

Test Result

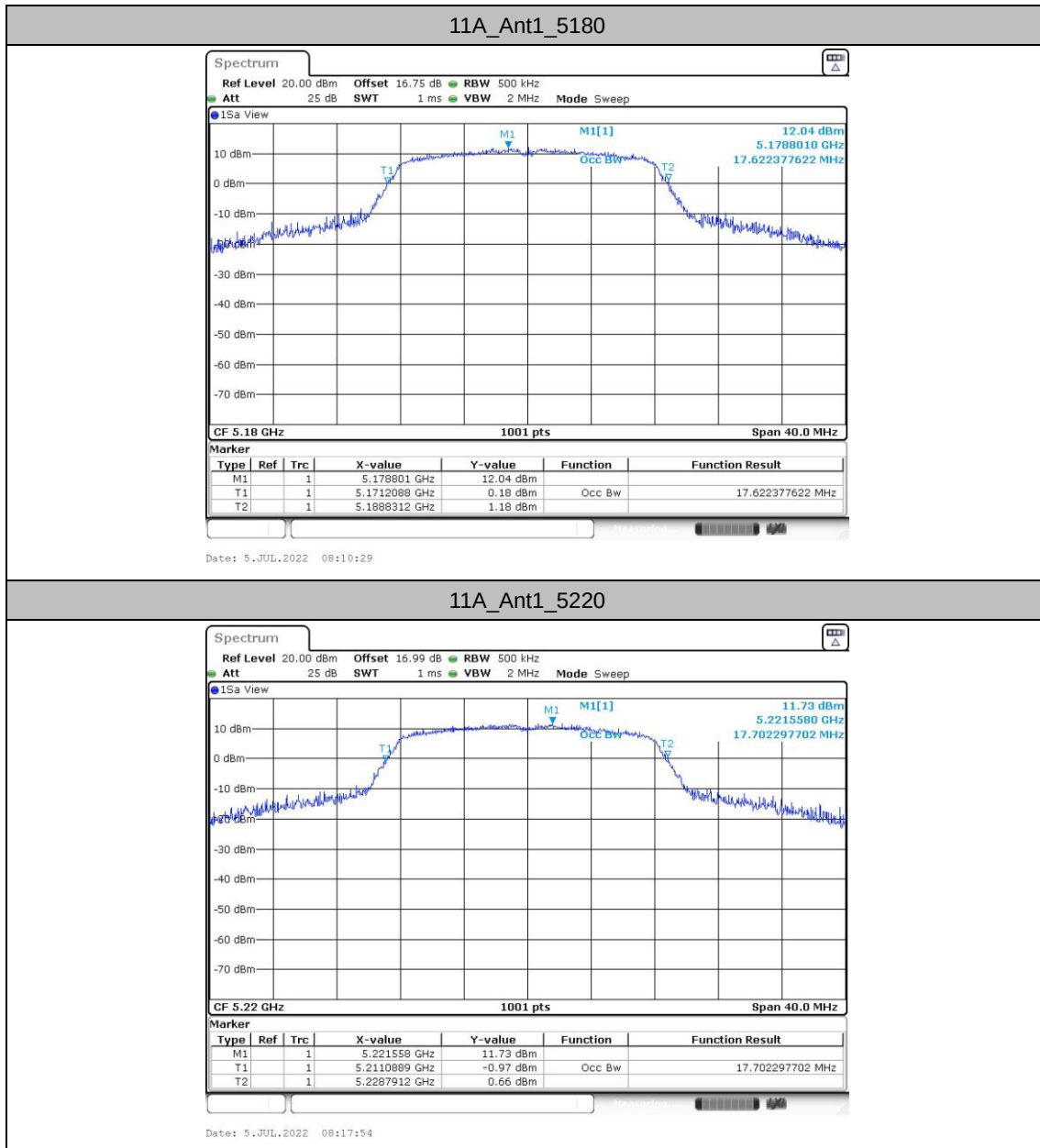
TestMode	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	5180	17.622	5171.209	5188.831	---	---
	5220	17.702	5211.089	5228.791	---	---
	5240	17.542	5231.289	5248.831	---	---
	5260	17.622	5251.129	5268.751	---	---
	5300	17.542	5291.209	5308.751	---	---
	5320	17.822	5311.049	5328.871	---	---
	5500	17.463	5491.249	5508.711	---	---
	5580	17.702	5571.129	5588.831	---	---
	5700	17.862	5691.129	5708.991	---	---
	5720	17.662	5711.129	5728.791	---	---
	5745	17.582	5736.209	5753.791	---	---
	5785	17.662	5776.169	5793.831	---	---
	5825	17.742	5816.089	5833.831	---	---
11AC20SISO	5180	18.422	5170.809	5189.231	---	---
	5220	18.661	5210.649	5229.311	---	---
	5240	18.501	5230.809	5249.311	---	---
	5260	18.462	5250.729	5269.191	---	---
	5300	18.462	5290.769	5309.231	---	---
	5320	18.581	5310.689	5329.271	---	---
	5500	18.422	5490.769	5509.191	---	---
	5580	18.422	5570.769	5589.191	---	---
	5700	18.422	5690.809	5709.231	---	---
	5720	18.382	5710.809	5729.191	---	---
	5745	18.422	5735.809	5754.231	---	---
	5785	18.422	5775.769	5794.191	---	---
	5825	18.422	5815.769	5834.191	---	---
11AC40SISO	5190	36.523	5171.778	5208.302	---	---
	5230	36.763	5211.618	5248.382	---	---
	5270	36.603	5251.698	5288.302	---	---
	5310	36.523	5291.698	5328.222	---	---
	5510	36.444	5491.778	5528.222	---	---
	5550	36.364	5531.858	5568.222	---	---
	5670	36.523	5651.698	5688.222	---	---



	5710	36.523	5691.698	5728.222	---	---
	5755	36.444	5736.778	5773.222	---	---
	5795	36.523	5776.778	5813.302	---	---
11AC80SISO	5210	75.764	5172.118	5247.882	---	---
	5290	75.604	5252.118	5327.722	---	---
	5530	75.604	5492.118	5567.722	---	---
	5610	75.604	5572.118	5647.722	---	---
	5690	75.445	5652.278	5727.722	---	---
	5775	75.764	5737.118	5812.882	---	---

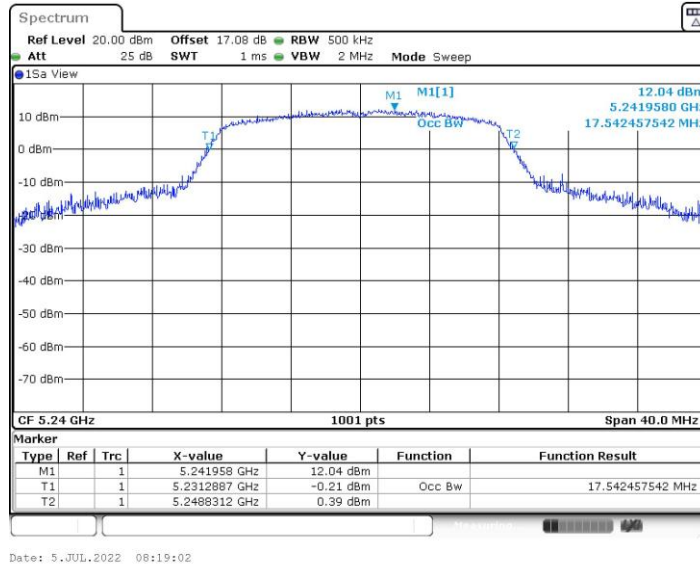


Test Graphs

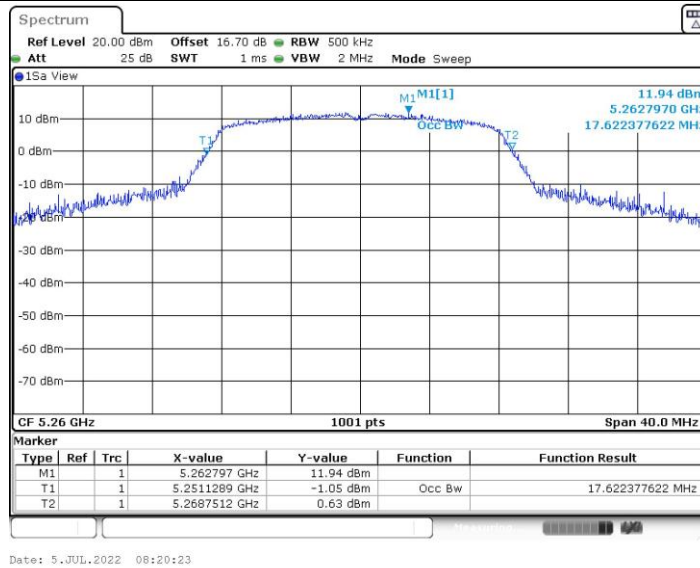




11A_Ant1_5240

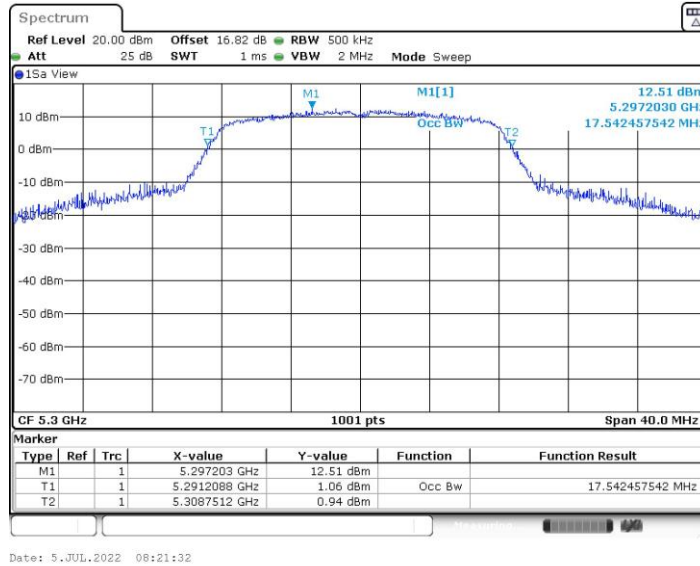


11A_Ant1_5260

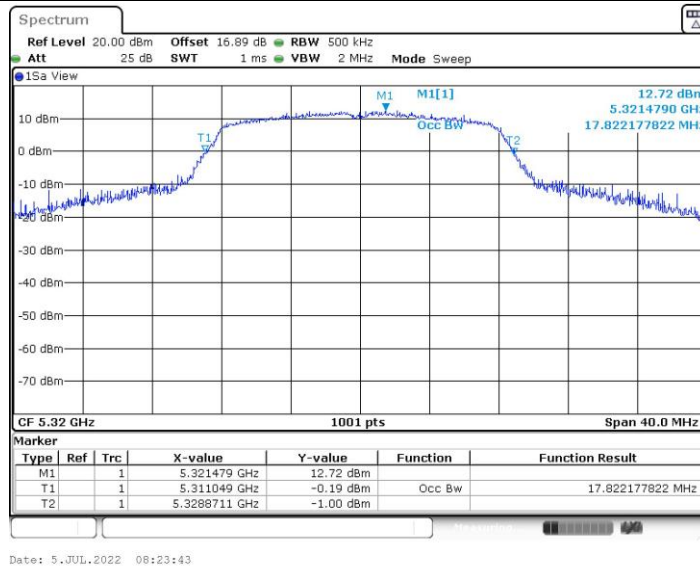




11A_Ant1_5300

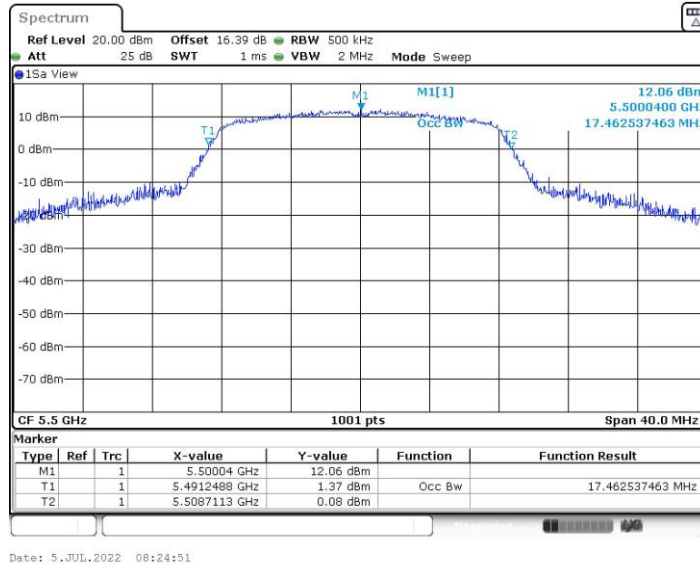


11A_Ant1_5320

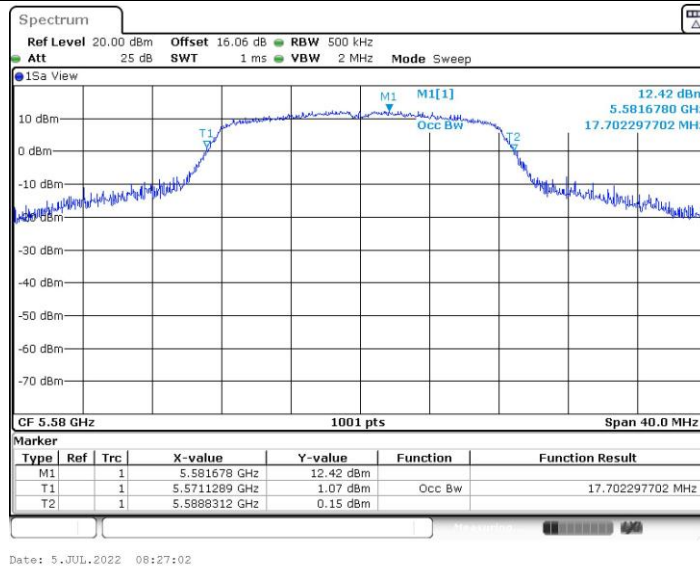




11A_Ant1_5500

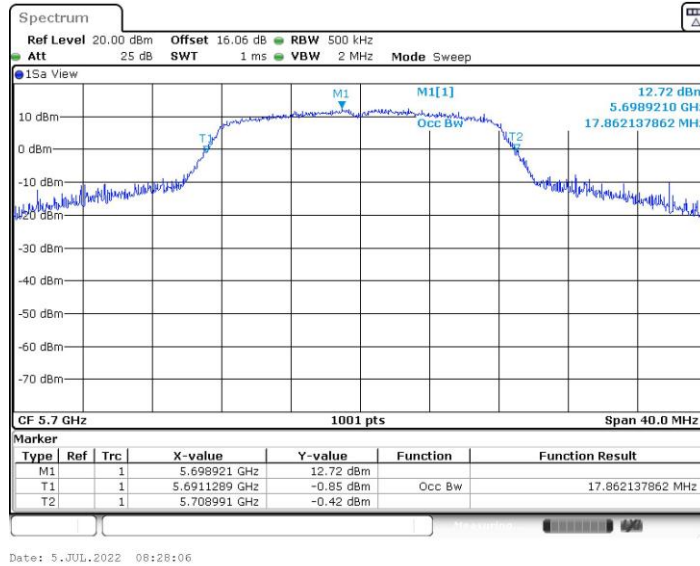


11A_Ant1_5580

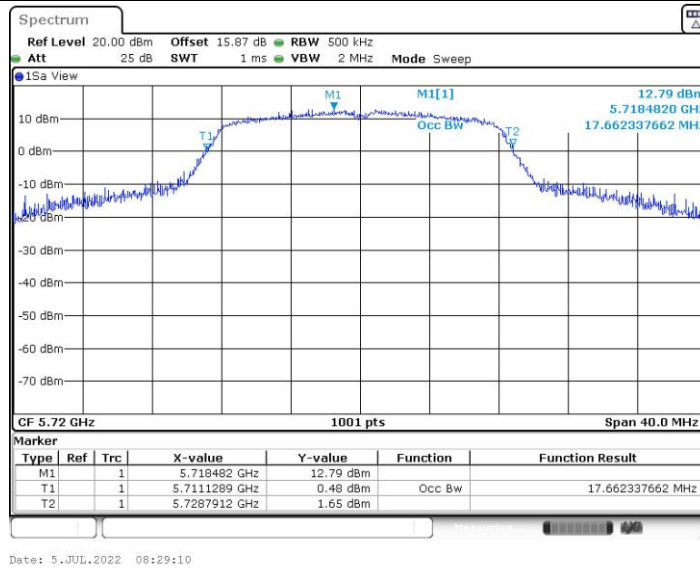




11A_Ant1_5700

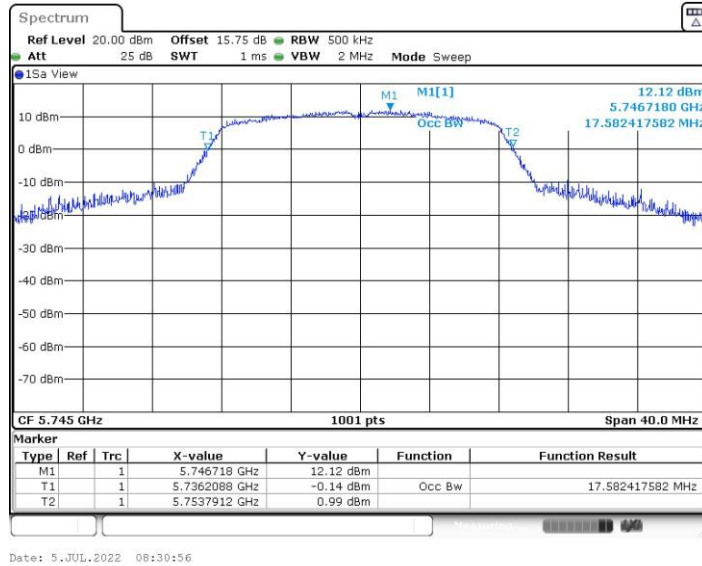


11A_Ant1_5720

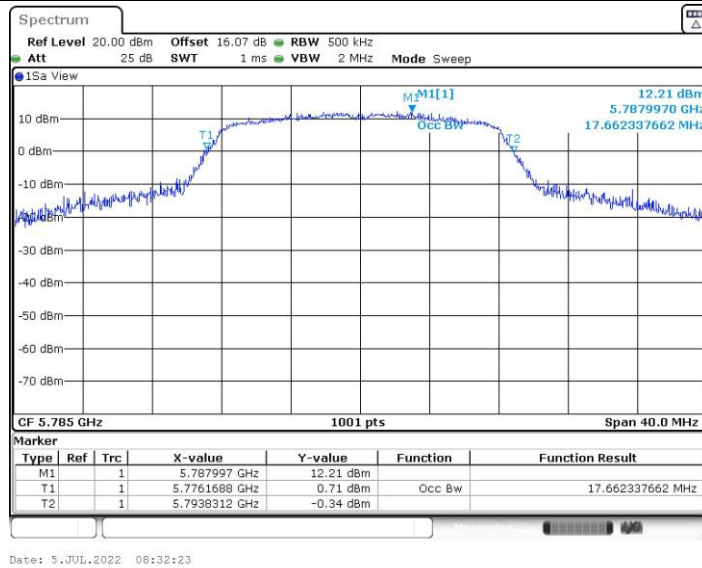




11A_Ant1_5745

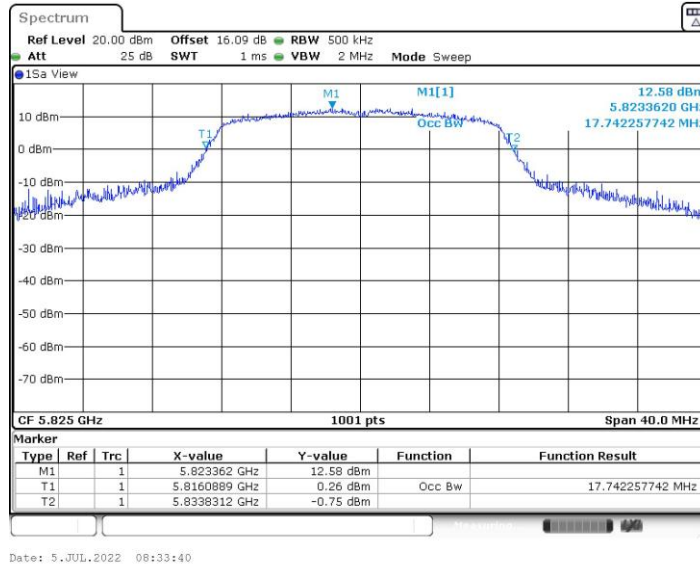


11A_Ant1_5785





11A_Ant1_5825



11AC20SISO_Ant1_5180

