FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2341-2
FCC ID	:	IHDT56AM1
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Apr. 10, 2023 ~ May 12, 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.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen)

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

ACCREDITED
Cert #5145.02

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR332006D	Rev. 01	Initial issue of report	May 26, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Report only	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 3.07 dB at 5149.94 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 14.32 dB at 0.163 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	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	XT2341-2
FCC ID	IHDT56AM1
IMEI Code	Conducted: 352000530005895/352000530005903 Conduction: 352000530005416/352000530005424 Radiation: 352000530016413/352000530016421
HW Version	DVT2
SW Version	TLA33.30
EUT Stage	Identical Prototype

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

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 17.79 dBm / 0.0601 W 802.11n HT20 : 17.91 dBm / 0.0618 W 802.11ac VHT20 : 17.86 dBm / 0.0611 W **<5260 MHz ~ 5320 MHz>** 802.11a : 18.29 dBm / 0.0675 W 802.11n HT20 : 18.30 dBm / 0.0676 W 802.11ac VHT20 : 18.30 dBm / 0.0676 W **<5500 MHz ~ 5700 MHz >** 802.11a : 18.35 dBm / 0.0684 W 802.11n HT20 : 18.47 dBm / 0.0703 W 802.11ac VHT20 : 18.85 dBm / 0.0767 W
Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** PIFA Antenna with gain -2.5 dBi **<5260 MHz ~ 5320 MHz>** PIFA Antenna with gain -1.0 dBi **<5500 MHz ~** 5700 MHz**>** PIFA Antenna with gain -0.7 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

Note:

1. For 802.11n HT20 / ac VHT20 mode, the testing have assessed 802.11n HT20 for U-NII-1 and 802.11ac VHT20 for U-NII-2A & 2C by referring to their maximum conducted power.
2. Ant 1 in Conducted and RSE test data corresponds to BT/WIFI antenna in EP.

1.5 Modification of EUT

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

1.6 Testing Location

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-KS TH01-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH03-SZ	CN1256	421272

Note: Test data subcontracted: Radiated Spurious Emission test case in section 3.4 of this report

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	CO01-KS	AUDIX	E3	6.2009-8-24
2.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

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

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

Remark:

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

1.9 Specification of Accessory

Specification of Accessory				
AC Adapter 1 (US)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-201L
AC Adapter 1 (EU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-202L
AC Adapter 1 (AR)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-206L
AC Adapter 1 (BR)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-207L
AC Adapter 1 (CHILE)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-209L
AC Adapter 2 (US)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-201L
AC Adapter 2 (EU)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-202L
AC Adapter 2 (AR)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-206L
AC Adapter 3 (US)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-101
AC Adapter 3 (EU)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-102
AC Adapter 3 (UK)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-103
AC Adapter 3 (AU)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-105
AC Adapter 4 (US)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-101
AC Adapter 4 (EU)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-102
AC Adapter 4 (UK)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-103
AC Adapter 4 (AU)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-105
AC Adapter 5 (US)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-101
AC Adapter 5 (EU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-102
AC Adapter 5 (UK)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-103
AC Adapter 5 (AU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-105
Battery 1	**Brand Name**	Motorola(ATL)	**Model Name**	PC50
Battery 2	**Brand Name**	Motorola (SCUD)	**Model Name**	PC50
Earphone 1	**Brand Name**	Motorola (New leader)	**Model Name**	NLD-EM313A-20SF
Earphone 2	**Brand Name**	Motorola (JWELL)	**Model Name**	JWEP1205-L20H
USB Cable 1	**Brand Name**	Motorola (SAIBAO)	**Model Name**	SLQ-A214A
USB Cable 2	**Brand Name**	Motorola (JWELL)	**Model Name**	ATOC

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
	40	5200	48	5240

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	56	5280	64	5320

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5500- 5700 MHz MHz U-NII-2C	100	5500	112	5560
	104	5520	116	5580
	108	5540	132	5660
	136	5680	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	120	5600	124	5620
	128	5640	-	-

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
802.11n HT20	MCS0
802.11ac VHT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + BT Link + WLAN Link(5G) + Adaptor5 + Earphone2 + USB Cable2 + Battery1
Remark: For Radiated Test Cases, The tests were performance with Adapter 3, Earphone 1 and USB Cable 1	

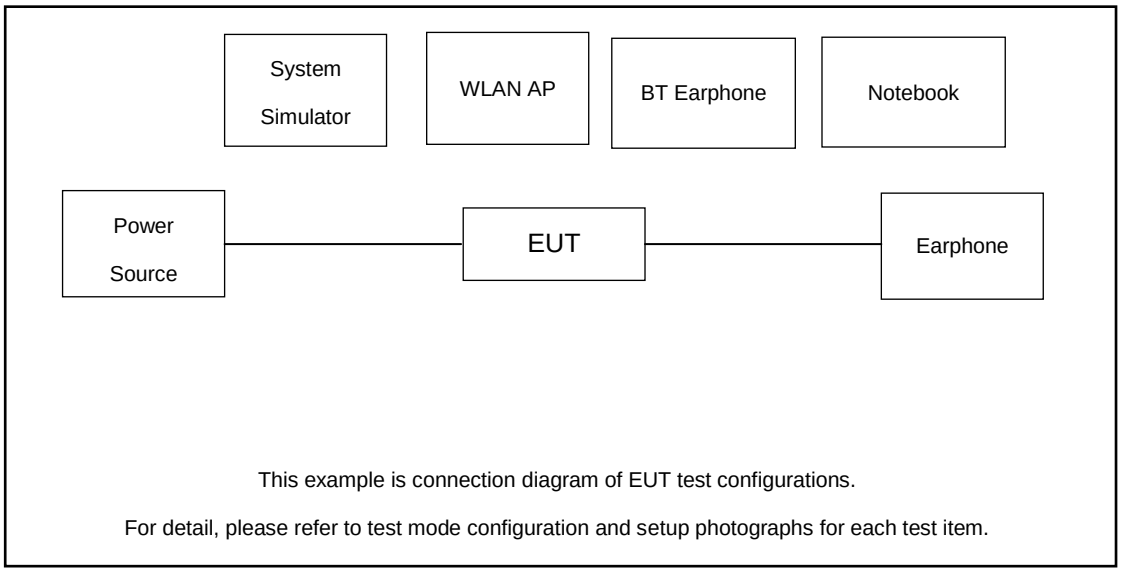
CO-location
802.11n HT20_Ch36 + LTE Band 13

Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5700 MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

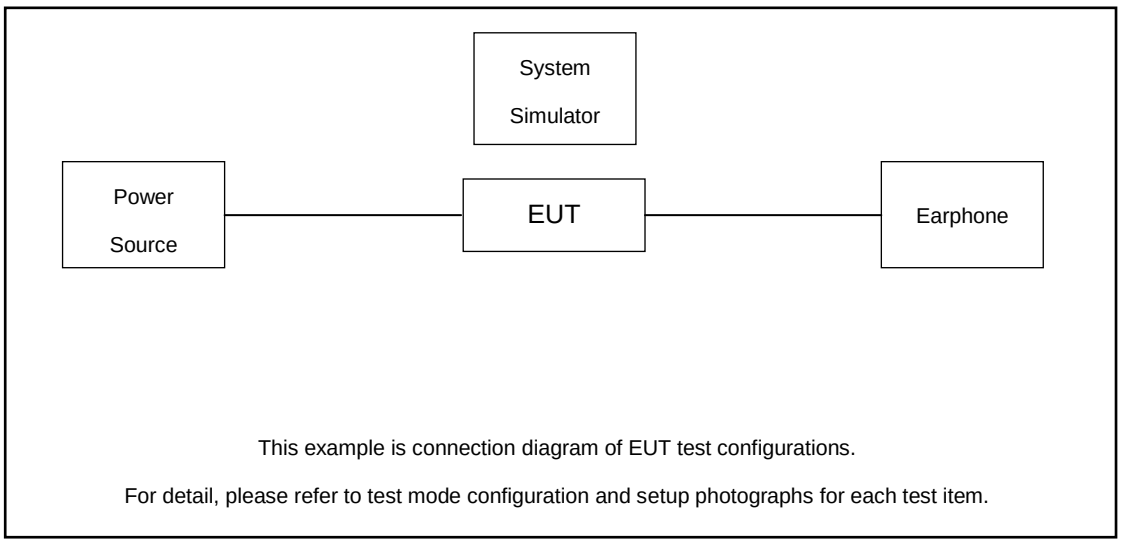
Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5700 MHz
		802.11n HT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

2.3 Connection Diagram of Test System

For AC Conducted Emission:



For Radiated Emission:



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.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
3.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m

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 8.0 dB and 10dB attenuator.

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

= 8.0 + 10 = 18.0 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

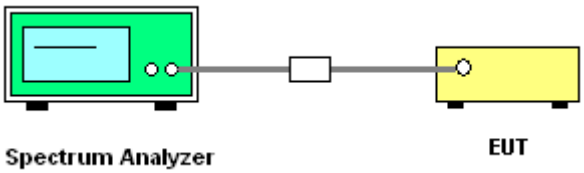
3.1.2 Measuring Instruments

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) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. 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%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the OBW and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

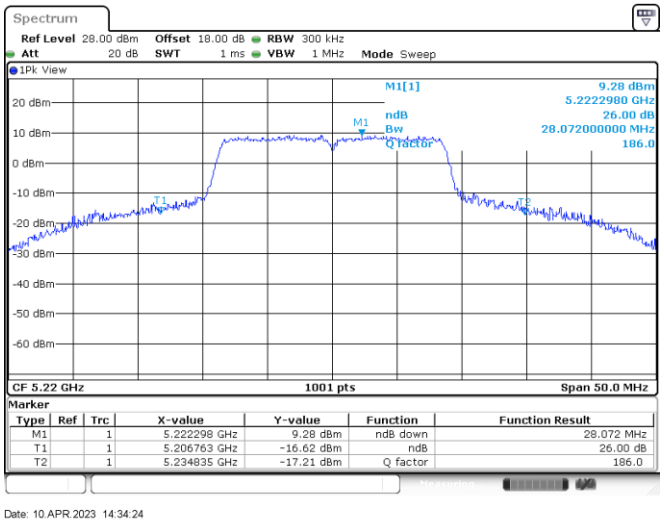
3.1.4 Test Setup



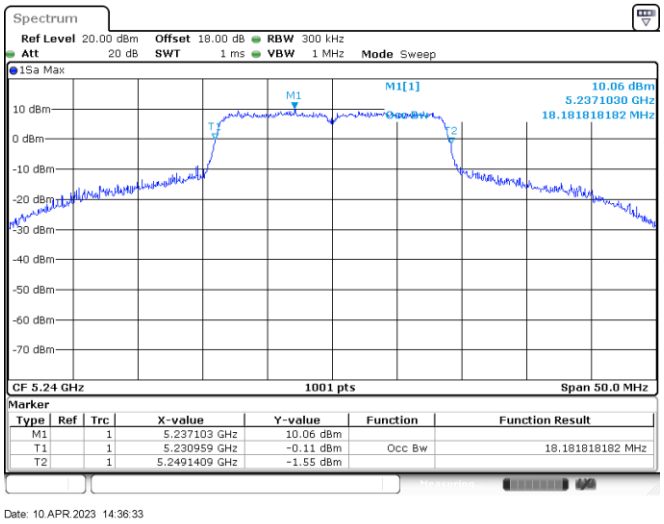
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth for 20M BW



Maximum 99% Occupied Bandwidth for 20M BW



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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 10 B, where B is the 26 dB emission bandwidth in megahertz.

For the 5.47–5.6 GHz and 5.65–5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log10 B, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

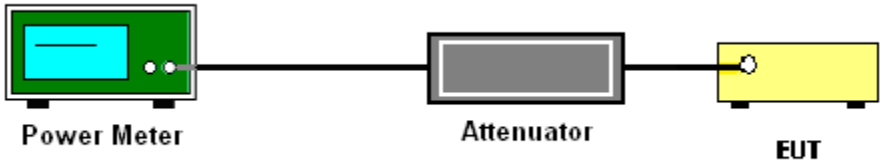
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

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.

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 v02r01. Section F) Maximum power spectral density.

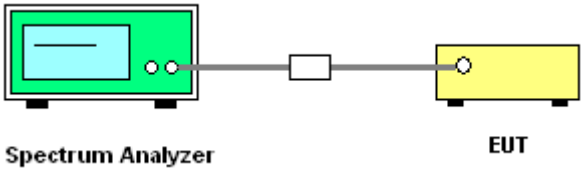
 # Method SA-2 #

(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.

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.

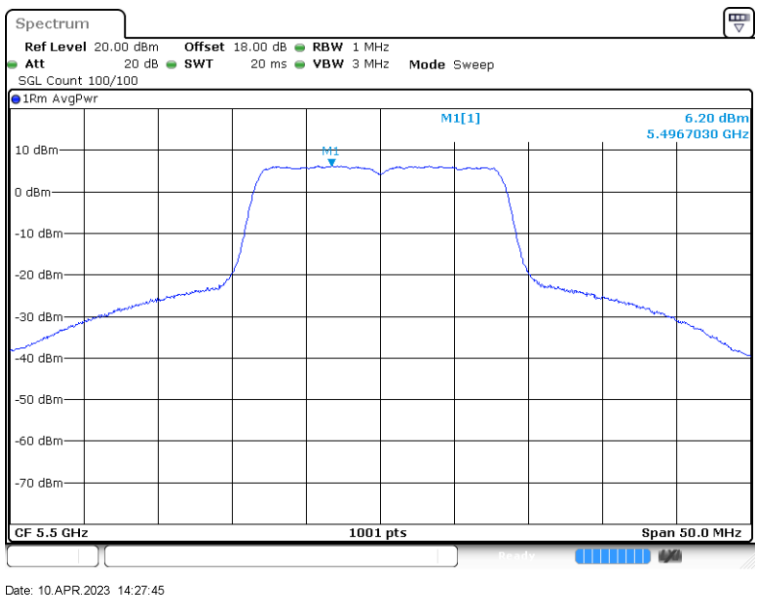
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



Note: Average Power Density (dB) = Measured value+ Duty Factor

3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

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 5470-5725 MHz band: all emissions outside of the 5470-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) 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

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) 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 v02r01. 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

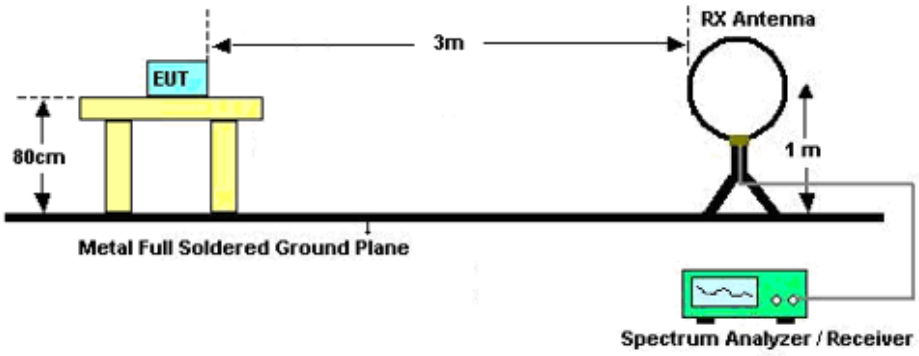
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

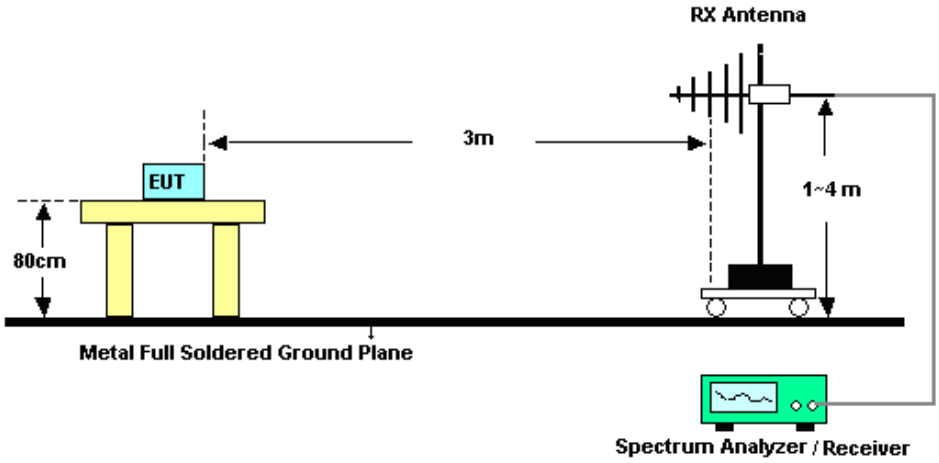
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

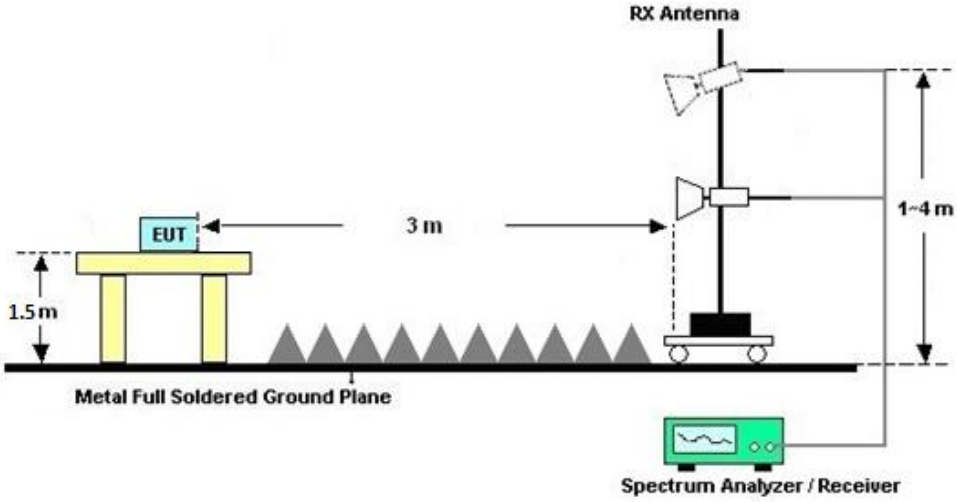
For radiated emissions below 30MHz



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 or 40GHz, whichever is lower)

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.

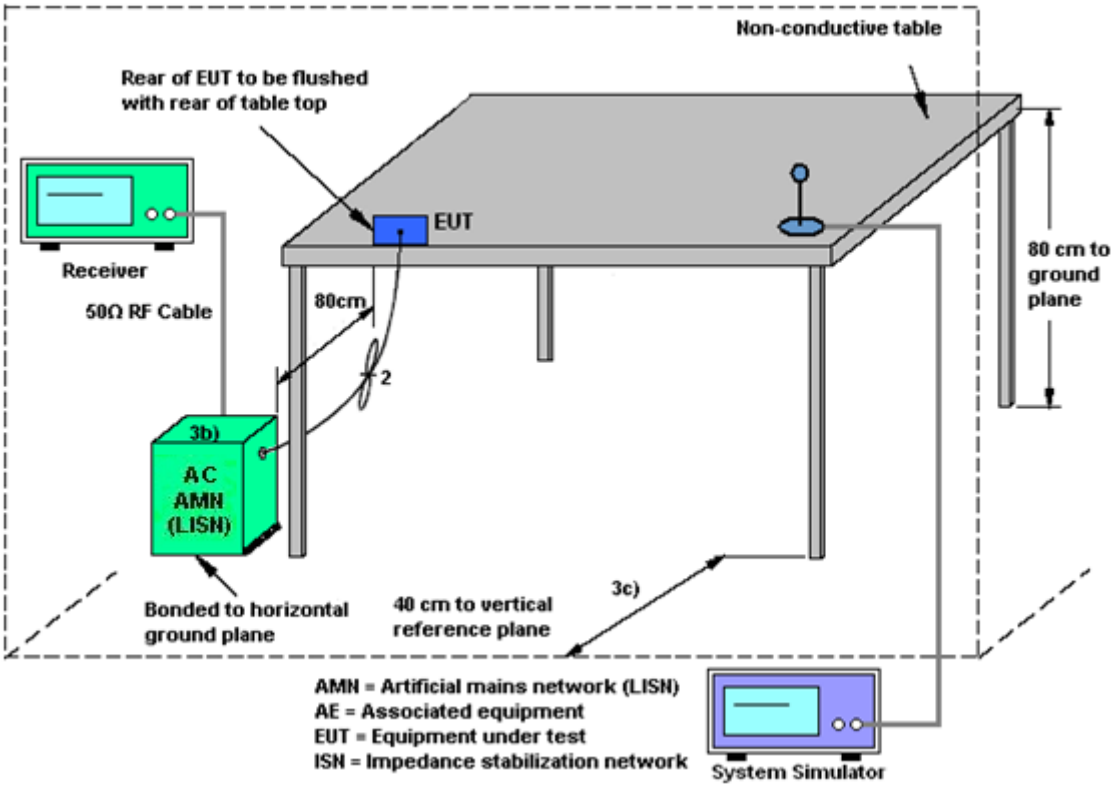
3.5.2 Measuring Instruments

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

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. 12, 2022	Apr. 10, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Apr. 10, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Apr. 10, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Apr. 19, 2023	May 23, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Apr. 19, 2023	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Apr. 19, 2023	Oct. 11, 2023	Conduction (CO01-KS)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 04, 2023	May 12, 2023	Apr. 03, 2024	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 04, 2023	May 12, 2023	Apr. 03, 2024	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	May 12, 2023	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 09, 2021	May 12, 2023	Aug. 08, 2023	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2023	May 12, 2023	Apr. 07, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2022	May 12, 2023	Jul.05, 2023	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2023	May 12, 2023	Apr. 07, 2024	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	May 12, 2023	Oct. 18, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	May 12, 2023	Oct. 18, 2023	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 26, 2022	May 12, 2023	Dec. 25, 2023	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	1 N/A	Nov. 10, 2022	May 12, 2023	Nov. 09, 2023	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 12, 2023	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 12, 2023	NCR	Radiation (03CH03-SZ)
laser range finder	Dingxin Yi	D-40	#03	N/A	Oct. 09, 2022	May 12, 2023	Oct. 08, 2023	Radiation (03CH03-SZ)
Thermo meter	Anymetre	JR593	#11	- 10℃ ~ 50℃ 10%RH~99%RH	Oct. 20, 2022	May 12, 2023	Oct. 19, 2023	Radiation (03CH03-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.001 %
Conducted Power Spectral Density	±0.40 dB

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

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

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB

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

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

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

Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jacob Zhang	Temperature:	21~25	°C
Test Date:	2023/4/10	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 single antenna							
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)
					Ant 1	Ant 1	Ant 1
11a	6Mbps	1	36	5180	16.88	20.13	22.27
11a	6Mbps	1	44	5220	17.03	26.17	22.31
11a	6Mbps	1	48	5240	17.03	24.58	22.31
HT20	MCS0	1	36	5180	17.83	20.58	22.51
HT20	MCS0	1	44	5220	18.13	28.07	22.58
HT20	MCS0	1	48	5240	18.18	27.32	22.60

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail
					Ant 1	Ant 1	Ant 1	Ant 1	
11a	6Mbps	1	36	5180	0.48	16.47	24.00	-2.50	Pass
11a	6Mbps	1	44	5220	0.48	17.79	24.00	-2.50	Pass
11a	6Mbps	1	48	5240	0.48	17.74	24.00	-2.50	Pass
HT20	MCS0	1	36	5180	0.56	16.44	24.00	-2.50	Pass
HT20	MCS0	1	44	5220	0.56	17.91	24.00	-2.50	Pass
HT20	MCS0	1	48	5240	0.56	17.87	24.00	-2.50	Pass
VHT20	MCS0	1	36	5180	0.58	16.53	24.00	-2.50	Pass
VHT20	MCS0	1	44	5220	0.58	17.83	24.00	-2.50	Pass
VHT20	MCS0	1	48	5240	0.58	17.86	24.00	-2.50	Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
					Ant 1	Ant 1	Ant 1	Ant 1	
11a	6Mbps	1	36	5180	0.48	4.79	11.00	-2.50	Pass
11a	6Mbps	1	44	5220	0.48	5.81	11.00	-2.50	Pass
11a	6Mbps	1	48	5240	0.48	5.83	11.00	-2.50	Pass
HT20	MCS0	1	36	5180	0.58	4.51	11.00	-2.50	Pass
HT20	MCS0	1	44	5220	0.58	6.06	11.00	-2.50	Pass
HT20	MCS0	1	48	5240	0.58	5.98	11.00	-2.50	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1
11a	6Mbps	1	52	5260	17.08	25.43	23.33	29.33	23.98
11a	6Mbps	1	60	5300	17.08	24.63	23.33	29.33	23.98
11a	6Mbps	1	64	5320	17.08	23.53	23.33	29.33	23.98
VHT20	MCS0	1	52	5260	17.93	23.78	23.54	29.54	23.98
VHT20	MCS0	1	60	5300	17.98	24.23	23.55	29.55	23.98
VHT20	MCS0	1	64	5320	18.03	24.48	23.56	29.56	23.98

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	52	5260	0.48	17.75	23.98	-1.00	26.99	Pass
11a	6Mbps	1	60	5300	0.48	17.82	23.98	-1.00	26.99	Pass
11a	6Mbps	1	64	5320	0.48	18.29	23.98	-1.00	26.99	Pass
HT20	MCS0	1	52	5260	0.56	17.79	23.98	-1.00	26.99	Pass
HT20	MCS0	1	60	5300	0.56	17.81	23.98	-1.00	26.99	Pass
HT20	MCS0	1	64	5320	0.56	18.30	23.98	-1.00	26.99	Pass
VHT20	MCS0	1	52	5260	0.58	17.85	23.98	-1.00	26.99	Pass
VHT20	MCS0	1	60	5300	0.58	17.85	23.98	-1.00	26.99	Pass
VHT20	MCS0	1	64	5320	0.58	18.30	23.98	-1.00	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
					Ant 1	Ant 1	Ant 1	Ant 1	
11a	6Mbps	1	52	5260	0.48	5.75	11.00	-1.00	Pass
11a	6Mbps	1	60	5300	0.48	5.85	11.00	-1.00	Pass
11a	6Mbps	1	64	5320	0.48	6.20	11.00	-1.00	Pass
VHT20	MCS0	1	52	5260	0.58	5.94	11.00	-1.00	Pass
VHT20	MCS0	1	60	5300	0.58	5.74	11.00	-1.00	Pass
VHT20	MCS0	1	64	5320	0.58	6.22	11.00	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)	26 dB Bandwidth In U-NII 2C (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1
11a	6Mbps	1	100	5500	17.08	23.88	23.33	29.33	23.98
11a	6Mbps	1	116	5580	17.13	23.48	23.34	29.34	23.98
11a	6Mbps	1	140	5700	17.03	21.78	23.31	29.31	23.98
VHT20	MCS0	1	100	5500	17.93	22.58	23.54	29.54	23.98
VHT20	MCS0	1	116	5580	18.03	25.13	23.56	29.56	23.98
VHT20	MCS0	1	140	5700	17.98	21.68	23.55	29.55	23.98

TEST RESULTS DATA
Average Power Table

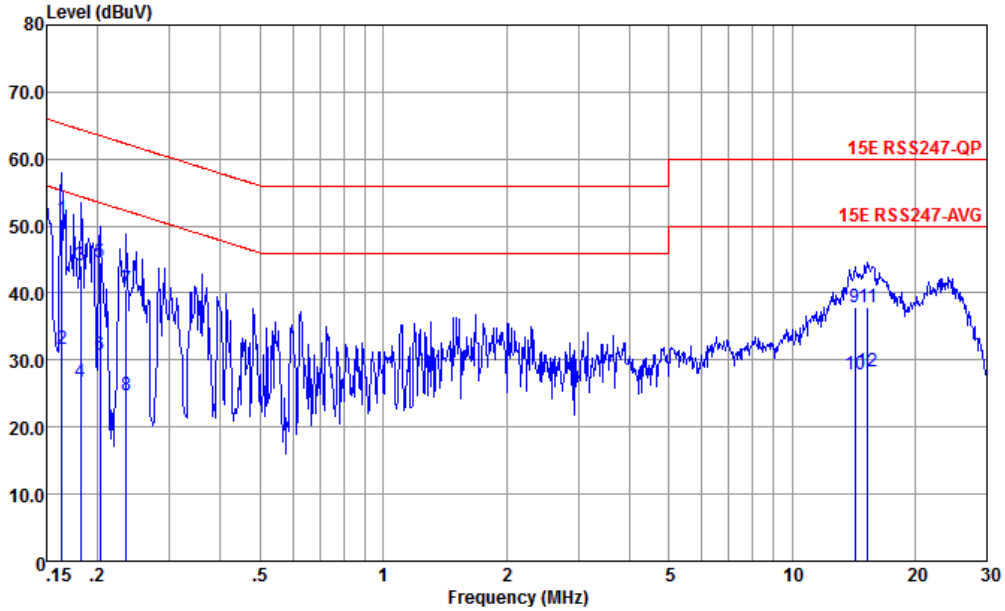
FCC U-NII-2C single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	100	5500	0.48	18.34	23.98	-0.70	26.99	Pass
11a	6Mbps	1	116	5580	0.48	18.35	23.98	-0.70	26.99	Pass
11a	6Mbps	1	140	5700	0.48	11.95	23.98	-0.70	26.99	Pass
HT20	MCS0	1	100	5500	0.56	17.11	23.98	-0.70	26.99	Pass
HT20	MCS0	1	116	5580	0.56	18.47	23.98	-0.70	26.99	Pass
HT20	MCS0	1	140	5700	0.56	10.88	23.98	-0.70	26.99	Pass
VHT20	MCS0	1	100	5500	0.58	17.15	23.98	-0.70	26.99	Pass
VHT20	MCS0	1	116	5580	0.58	18.85	23.98	-0.70	26.99	Pass
VHT20	MCS0	1	140	5700	0.58	10.96	23.98	-0.70	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
					Ant 1	Ant 1	Ant 1	Ant 1	
11a	6Mbps	1	100	5500	0.48	6.68	11.00	-0.70	Pass
11a	6Mbps	1	116	5580	0.48	6.46	11.00	-0.70	Pass
11a	6Mbps	1	140	5700	0.48	-0.45	11.00	-0.70	Pass
VHT20	MCS0	1	100	5500	0.58	5.31	11.00	-0.70	Pass
VHT20	MCS0	1	116	5580	0.58	6.56	11.00	-0.70	Pass
VHT20	MCS0	1	140	5700	0.58	-1.53	11.00	-0.70	Pass

Appendix B. AC Conducted Emission Test Results

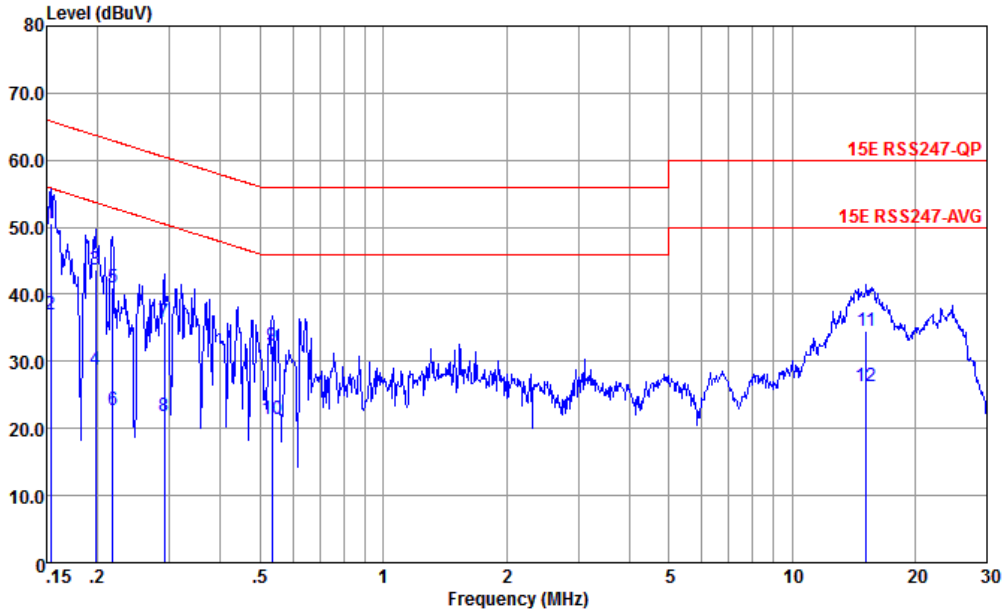
Test Engineer :	Amos	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15E RSS247-QP LISN-060105-LINE LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.163	50.98	-14.32	65.30	40.49	0.06	10.43	QP
2		0.163	31.68	-23.62	55.30	21.19	0.06	10.43	Average
3		0.182	44.06	-20.36	64.42	33.60	0.04	10.42	QP
4		0.182	26.76	-27.66	54.42	16.30	0.04	10.42	Average
5		0.203	44.64	-18.85	63.49	34.20	0.02	10.42	QP
6		0.203	30.74	-22.75	53.49	20.30	0.02	10.42	Average
7		0.235	40.63	-21.63	62.26	30.20	0.04	10.39	QP
8		0.235	24.63	-27.63	52.26	14.20	0.04	10.39	Average
9		14.288	37.77	-22.23	60.00	26.80	-0.21	11.18	QP
10		14.288	27.87	-22.13	50.00	16.90	-0.21	11.18	Average
11		15.307	37.82	-22.18	60.00	26.80	-0.22	11.24	QP
12		15.307	28.22	-21.78	50.00	17.20	-0.22	11.24	Average

Test Engineer :	Amos	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15E RSS247-QP LISN-060105-NEUTRAL NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.153	50.66	-15.16	65.82	40.20	0.03	10.43	QP
2		0.153	37.06	-18.76	55.82	26.60	0.03	10.43	Average
3		0.198	43.67	-20.04	63.71	33.20	0.05	10.42	QP
4		0.198	28.67	-25.04	53.71	18.20	0.05	10.42	Average
5		0.217	40.93	-21.99	62.92	30.49	0.03	10.41	QP
6		0.217	22.63	-30.29	52.92	12.19	0.03	10.41	Average
7		0.291	35.81	-24.69	60.50	25.50	-0.04	10.35	QP
8		0.291	21.91	-28.59	50.50	11.60	-0.04	10.35	Average
9		0.535	32.32	-23.68	56.00	22.20	-0.08	10.20	QP
10		0.535	21.42	-24.58	46.00	11.30	-0.08	10.20	Average
11		15.226	34.56	-25.44	60.00	23.50	-0.18	11.24	QP
12		15.226	26.36	-23.64	50.00	15.30	-0.18	11.24	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

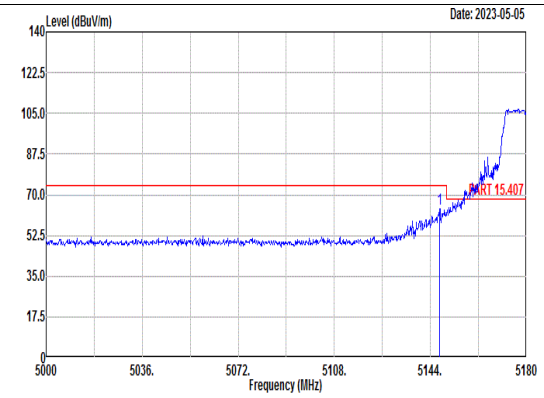
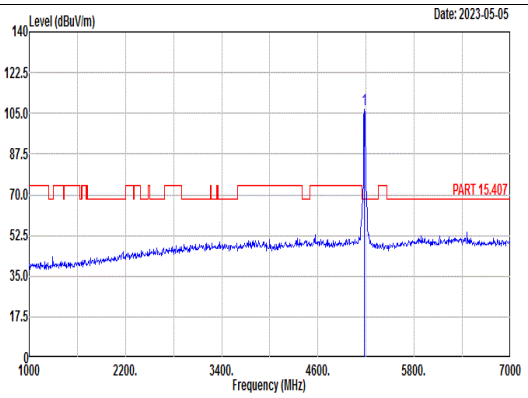
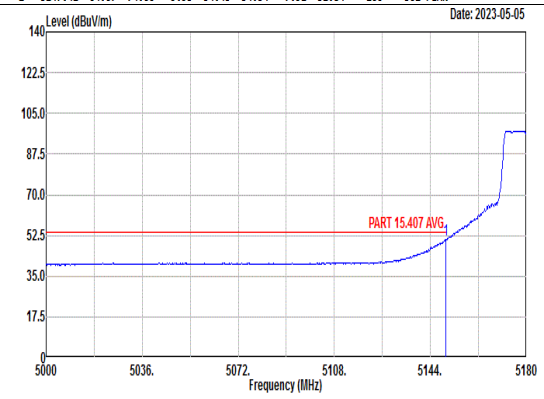
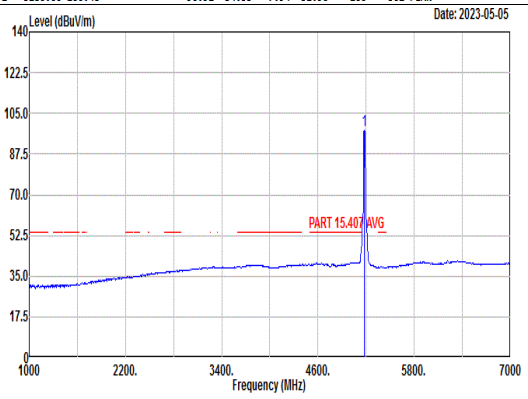
Appendix C. Radiated Spurious Emission Test Data

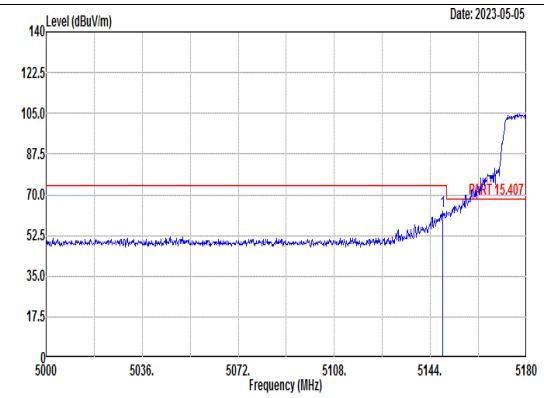
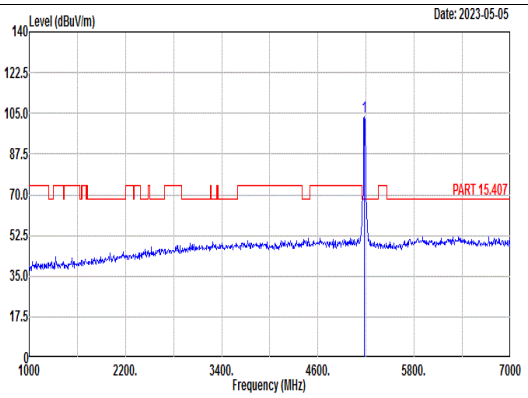
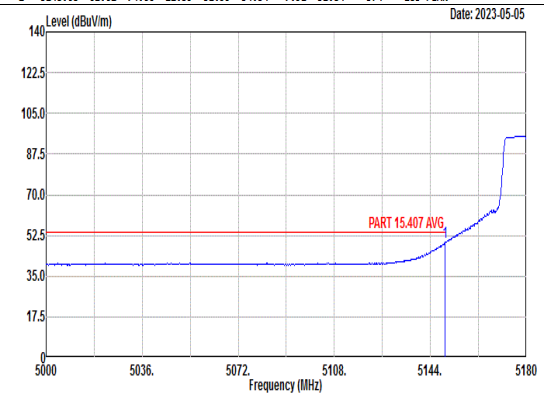
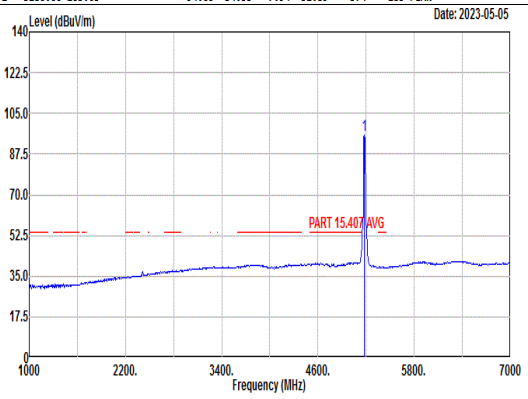
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	U-NII-1	5.15-5.25	1	802.11a	36	5180	6Mbps	-
Mode 2	U-NII-1	5.15-5.25	1	802.11a	44	5220	6Mbps	-
Mode 3	U-NII-1	5.15-5.25	1	802.11a	48	5240	6Mbps	-
Mode 4	U-NII-2A	5.25-5.35	1	802.11a	52	5260	6Mbps	-
Mode 5	U-NII-2A	5.25-5.35	1	802.11a	60	5300	6Mbps	-
Mode 6	U-NII-2A	5.25-5.35	1	802.11a	64	5320	6Mbps	-
Mode 7	U-NII-2C	5.47-5.725	1	802.11a	100	5500	6Mbps	-
Mode 8	U-NII-2C	5.47-5.725	1	802.11a	116	5580	6Mbps	-
Mode 9	U-NII-2C	5.47-5.725	1	802.11a	140	5700	6Mbps	-
Mode 10	U-NII-1	5.15-5.25	1	802.11n HT20	36	5180	MCS0	-
Mode 11	U-NII-1	5.15-5.25	1	802.11n HT20	44	5220	MCS0	-
Mode 12	U-NII-1	5.15-5.25	1	802.11n HT20	48	5240	MCS0	-
Mode 13	U-NII-2A	5.25-5.35	1	802.11ac VHT20	52	5260	MCS0	-
Mode 14	U-NII-2A	5.25-5.35	1	802.11ac VHT20	60	5300	MCS0	-
Mode 15	U-NII-2A	5.25-5.35	1	802.11ac VHT20	64	5320	MCS0	-
Mode 16	U-NII-2C	5.47-5.725	1	802.11ac VHT20	100	5500	MCS0	-
Mode 17	U-NII-2C	5.47-5.725	1	802.11ac VHT20	116	5580	MCS0	-
Mode 18	U-NII-2C	5.47-5.725	1	802.11ac VHT20	140	5700	MCS0	-
Mode 19	U-NII-1	5.15-5.25	1	802.11n HT20	36	5180	MCS0	LF

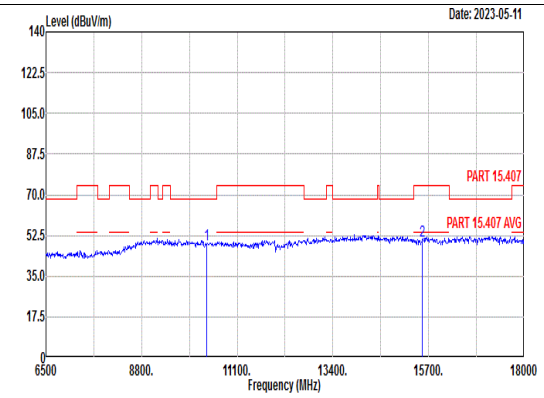
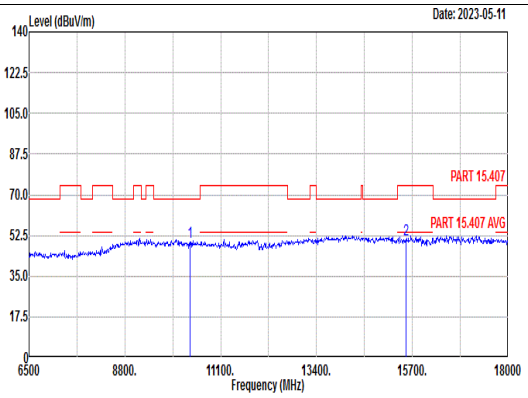
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5149.76	50.70	54.00	-3.30	H	AVERAGE	Pass	Band Edge
1	802.11a	36	10360.00	49.55	68.30	-18.75	V	Peak	Pass	Harmonic
2	802.11a	44	5143.00	40.82	54.00	-13.18	H	AVERAGE	Pass	Band Edge
2	802.11a	44	10440.00	49.52	68.30	-18.78	V	Peak	Pass	Harmonic
3	802.11a	48	5016.32	40.87	54.00	-13.13	V	AVERAGE	Pass	Band Edge
3	802.11a	48	10480.00	48.24	68.30	-20.06	H	Peak	Pass	Harmonic
4	802.11a	52	5045.50	40.74	54.00	-13.26	H	AVERAGE	Pass	Band Edge
4	802.11a	52	10480	49.08	68.3	-19.22	H	Peak	Pass	Harmonic
5	802.11a	60	5047.10	40.59	54.00	-13.41	H	AVERAGE	Pass	Band Edge
5	802.11a	60	15900.00	49.90	74.00	-24.10	H	Peak	Pass	Harmonic
6	802.11a	64	5350.10	47.13	54.00	-6.87	V	AVERAGE	Pass	Band Edge
6	802.11a	64	10640.00	49.41	74.00	-24.59	H	Peak	Pass	Harmonic
7	802.11a	100	5469.55	65.18	68.30	-3.12	H	PEAK	Pass	Band Edge
7	802.11a	100	16500.00	52.34	68.30	-15.96	H	Peak	Pass	Harmonic
8	802.11a	116	5429.58	39.26	54.00	-14.74	V	AVERAGE	Pass	Band Edge
8	802.11a	116	16740.00	51.78	68.30	-16.52	H	Peak	Pass	Harmonic
9	802.11a	140	5726.00	65.06	68.30	-3.24	V	PEAK	Pass	Band Edge
9	802.11a	140	17100.00	50.34	68.30	-17.96	H	Peak	Pass	Harmonic
10	802.11n HT20	36	5149.94	50.93	54.00	-3.07	V	AVERAGE	Pass	Band Edge
10	802.11n HT20	36	10360.00	49.53	68.30	-18.77	V	Peak	Pass	Harmonic
11	802.11n HT20	44	5042.02	40.47	54.00	-13.53	H	AVERAGE	Pass	Band Edge
11	802.11n HT20	44	10440.00	49.05	68.30	-19.25	V	Peak	Pass	Harmonic
12	802.11n HT20	48	5051.60	40.45	54.00	-13.55	V	AVERAGE	Pass	Band Edge
12	802.11n HT20	48	10480.00	49.29	68.30	-19.01	H	Peak	Pass	Harmonic
13	802.11ac VHT20	52	5066.56	40.43	54.00	-13.57	V	AVERAGE	Pass	Band Edge

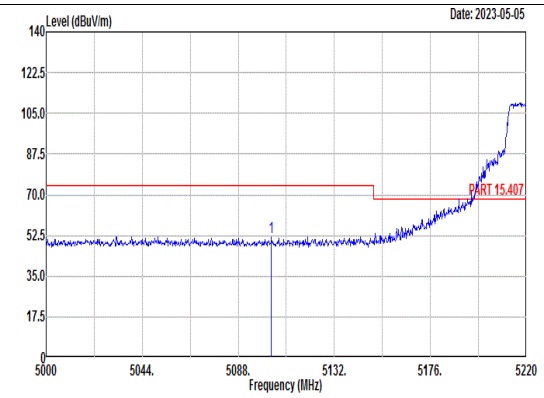
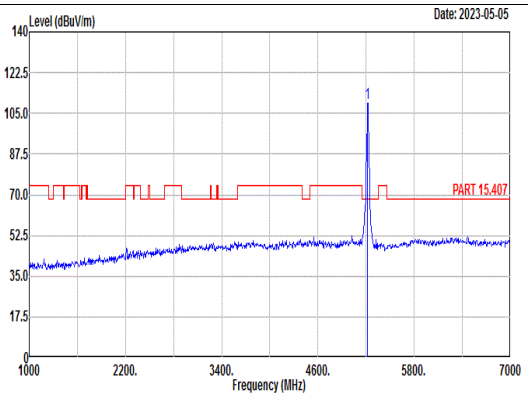
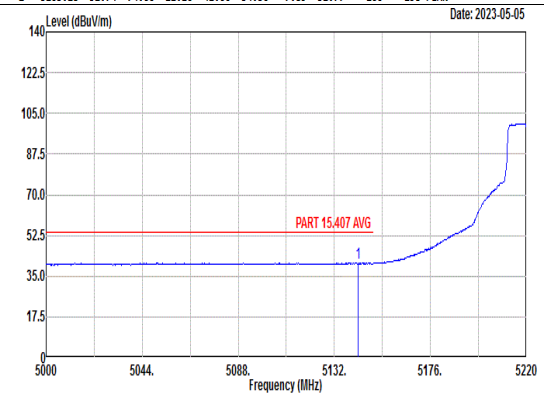
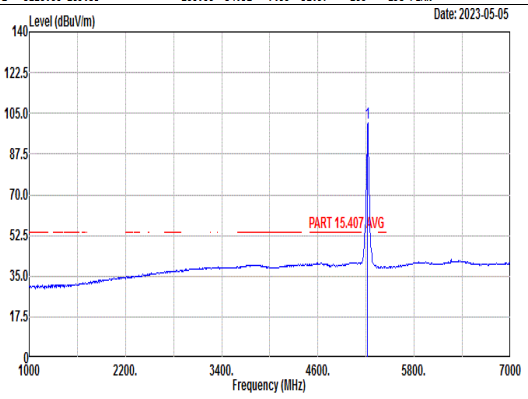
13	802.11ac VHT20	52	10520.00	49.62	68.30	-18.68	H	Peak	Pass	Harmonic
14	802.11ac VHT20	60	5016.20	40.59	54.00	-13.41	H	AVERAGE	Pass	Band Edge
14	802.11ac VHT20	60	10600.00	49.44	74.00	-24.56	H	Peak	Pass	Harmonic
15	802.11ac VHT20	64	5350.94	47.22	54.00	-6.78	V	AVERAGE	Pass	Band Edge
15	802.11ac VHT20	64	10640.00	49.60	74.00	-24.40	V	Peak	Pass	Harmonic
16	802.11ac VHT20	100	5469.40	64.11	68.30	-4.19	H	PEAK	Pass	Band Edge
16	802.11ac VHT20	100	16500.00	51.30	68.30	-17.00	H	Peak	Pass	Harmonic
17	802.11ac VHT20	116	5374.61	39.38	54.00	-14.62	V	AVERAGE	Pass	Band Edge
17	802.11ac VHT20	116	16740.00	51.49	68.30	-16.81	H	Peak	Pass	Harmonic
18	802.11ac VHT20	140	5728.34	64.73	68.30	-3.57	H	PEAK	Pass	Band Edge
18	802.11ac VHT20	140	17100.00	50.64	68.30	-17.66	V	Peak	Pass	Harmonic
19	802.11n HT20	36	262.8	35.03	46.00	-10.97	H	Peak	Pass	LF

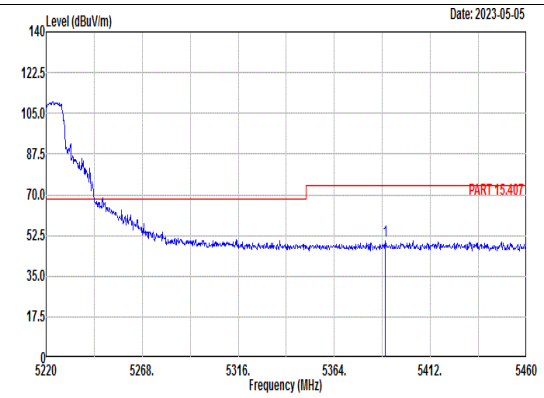
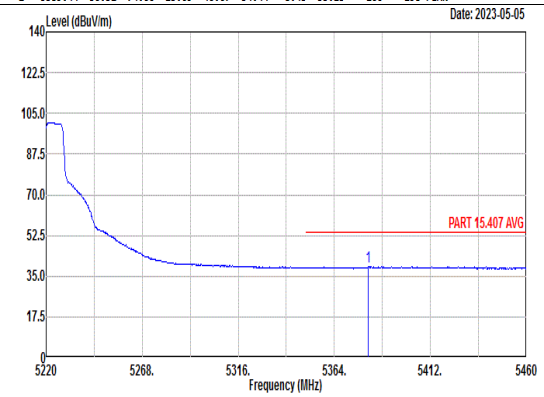
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 1 Setting : 6M Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5147.42 64.07 74.00 -9.93 54.45 34.54 7.92 32.84 100 301 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 1 Setting : 6M Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5180.00 106.48 ------ ------ 96.91 34.53 7.94 32.90 100 301 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 1 Setting : 6M Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.76 50.70 54.00 -3.30 41.09 34.54 7.92 32.85 100 301 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 1 Setting : 6M Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5180.00 97.93 ------ ------ 88.36 34.53 7.94 32.90 100 301 AVERAGE

Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 1 Setting : 6M Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5148.68 62.61 74.00 -11.39 52.99 34.54 7.92 32.84 374 283 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 1 Setting : 6M Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5180.00 103.63 ------ ------ 94.05 34.53 7.94 32.89 374 283 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 1 Setting : 6M Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.58 49.68 54.00 -4.32 40.07 34.54 7.92 32.85 374 283 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 1 Setting : 6M Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5180.00 95.38 ------ ------ 85.80 34.53 7.94 32.89 374 283 AVERAGE

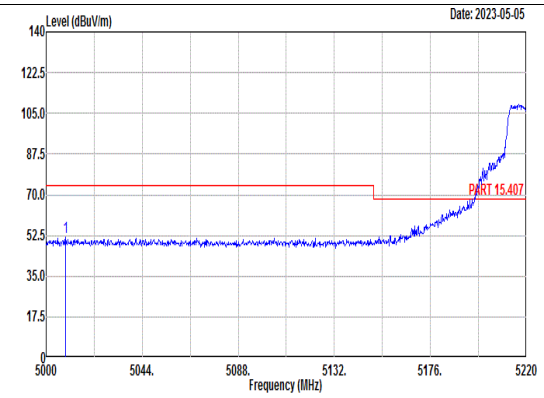
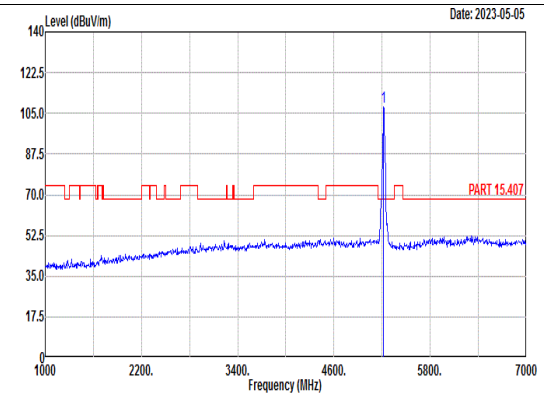
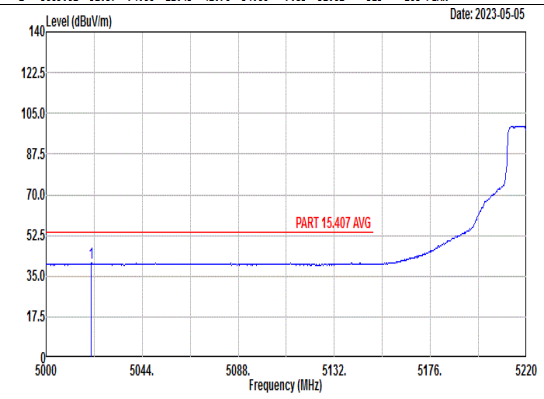
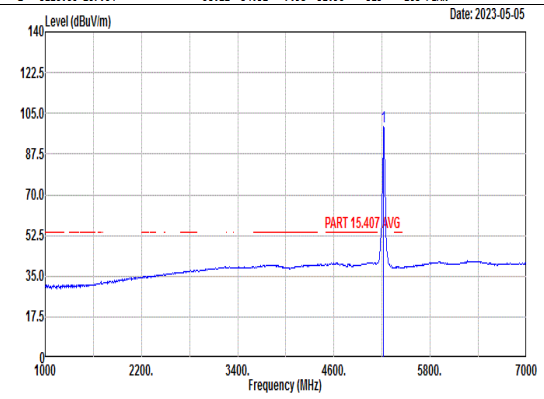
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 1 Setting : 6M Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10360.00 48.68 68.30 -19.62 51.41 39.72 10.73 53.18 --- --- Peak 2 15540.00 50.34 74.00 -23.66 50.28 41.74 12.72 54.40 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 1 Setting : 6M Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10360.00 49.55 68.30 -18.75 52.28 39.72 10.73 53.18 --- --- Peak 2 15540.00 50.54 74.00 -23.46 50.48 41.74 12.72 54.40 --- --- Peak

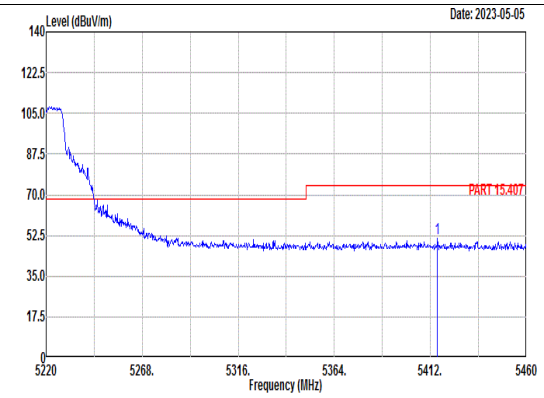
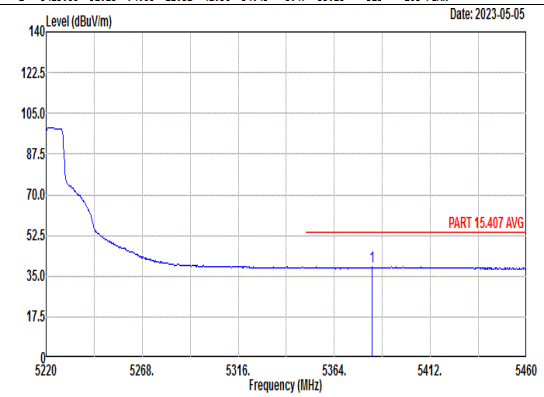
Mode	2
	Band Edge - L
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz
ANT	1

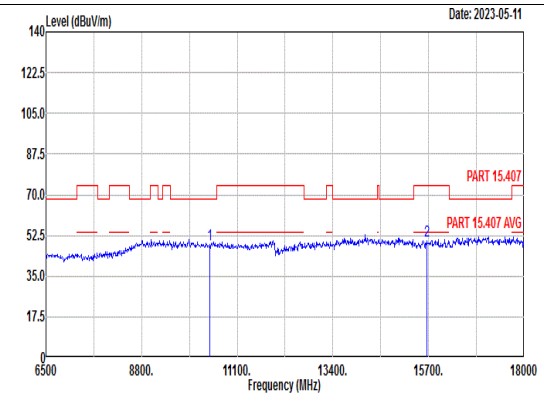
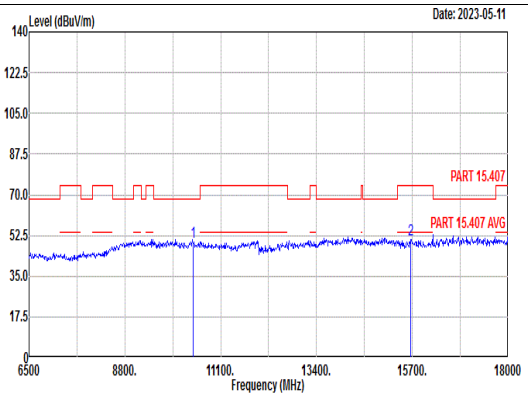
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5103.18 51.74 74.00 -22.26 42.06 34.56 7.89 32.77 100 298 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5220.00 109.53 ------ ------ 100.00 34.51 7.99 32.97 100 298 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5143.00 40.82 54.00 -13.18 31.20 34.54 7.91 32.83 100 298 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5220.00 100.81 ------ ------ 91.28 34.51 7.99 32.97 100 298 AVERAGE

Mode	2	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5389.44 50.31 74.00 -23.69 40.67 34.44 8.43 33.23 100 298 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5381.04 39.14 54.00 -14.86 29.50 34.45 8.41 33.22 100 298 AVERAGE	Blank

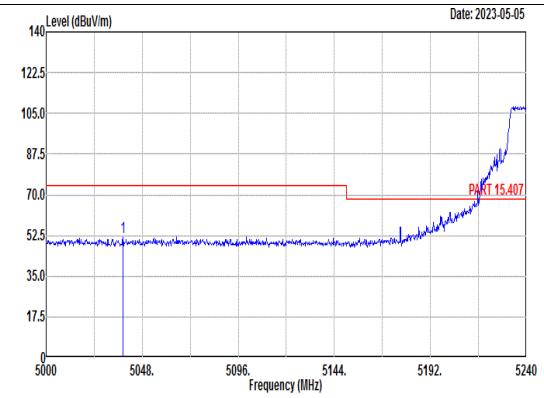
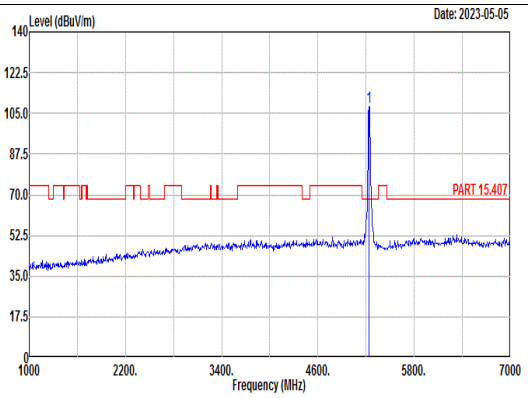
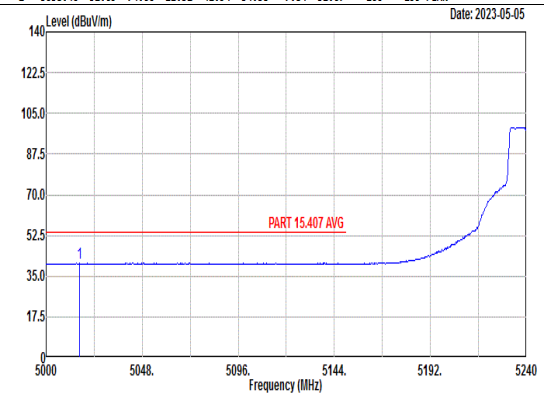
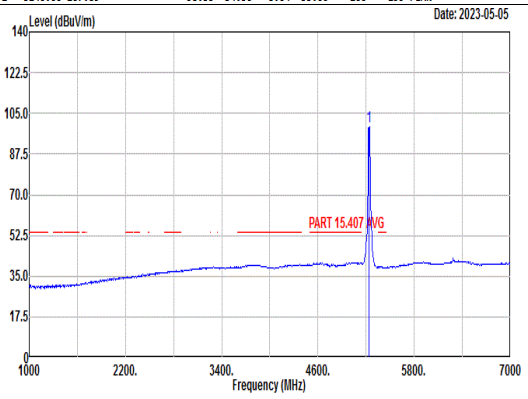
Mode	2
	Band Edge - L
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz
ANT	1

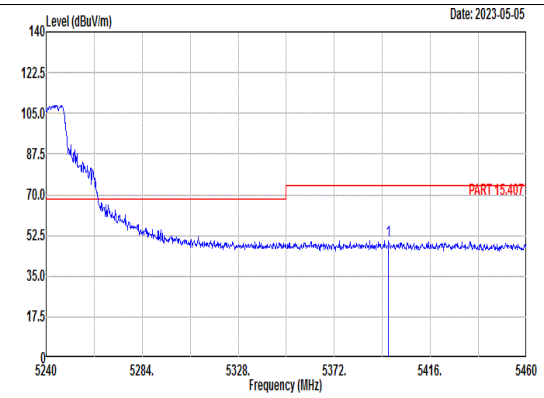
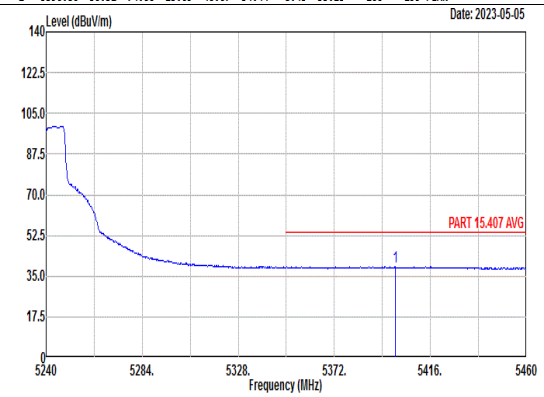
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5009.02 51.57 74.00 -22.43 41.76 34.60 7.83 32.62 325 268 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5220.00 107.64 ------ ------ 98.11 34.51 7.98 32.96 325 268 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5020.68 40.65 54.00 -13.35 30.87 34.59 7.83 32.64 325 268 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5220.00 99.46 ------ ------ 89.93 34.51 7.98 32.96 325 268 AVERAGE

Mode	2	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5415.60 51.18 74.00 -22.82 41.56 34.43 8.47 33.28 325 268 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5382.96 38.95 54.00 -15.05 29.30 34.45 8.42 33.22 325 268 AVERAGE	Blank

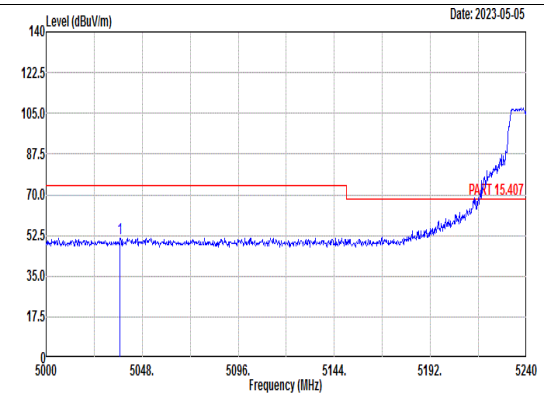
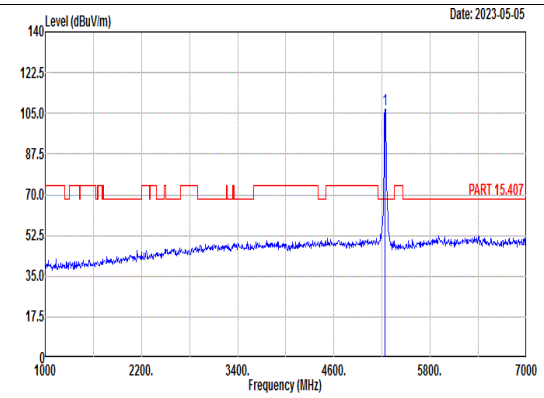
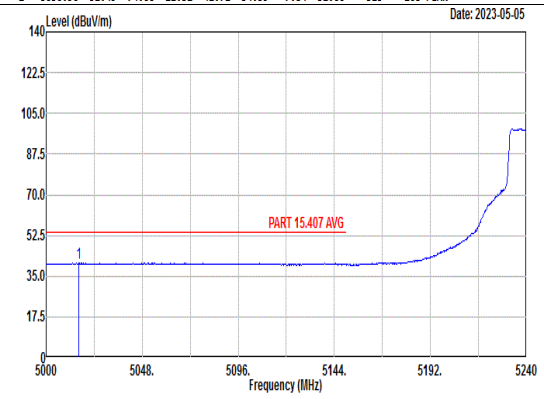
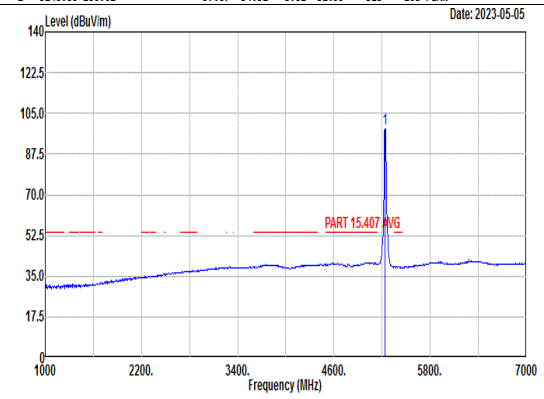
Mode	2	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 10440.00 48.50 68.30 -19.80 51.23 39.76 10.79 53.28 --- --- Peak 2 15660.00 50.24 74.00 -23.76 50.22 41.86 12.72 54.56 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 2 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 10440.00 49.52 68.30 -18.78 52.25 39.76 10.79 53.28 --- --- Peak 2 15660.00 50.87 74.00 -23.13 50.85 41.86 12.72 54.56 --- --- Peak

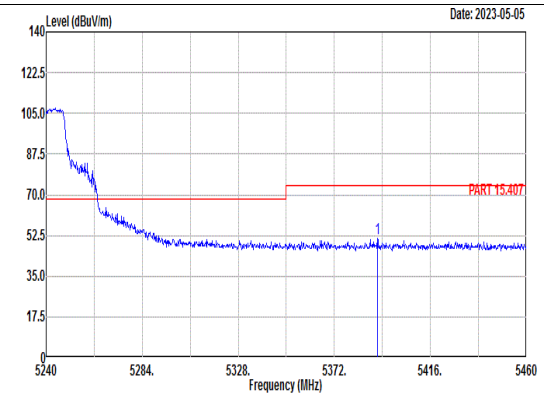
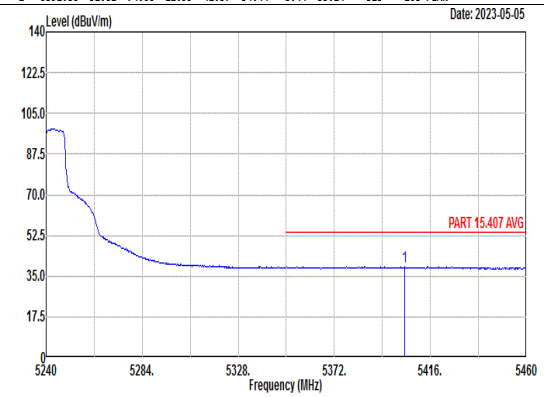
Mode	3
	Band Edge - L
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz
ANT	1

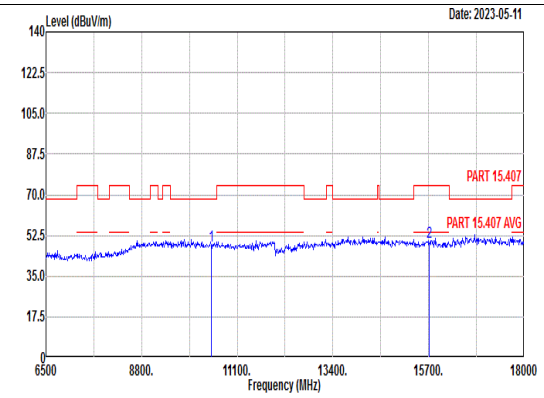
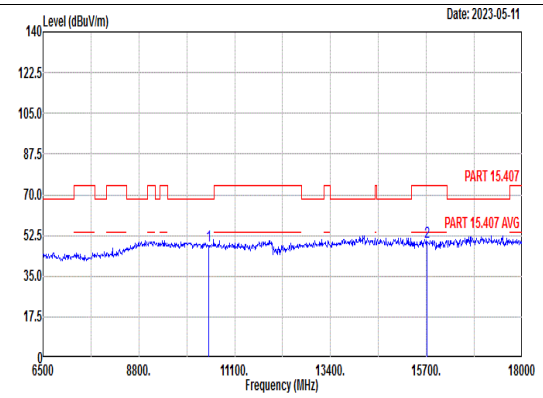
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5038.40 51.69 74.00 -22.31 41.94 34.58 7.84 32.67 100 299 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5240.00 107.89 ------ ------ 98.35 34.50 8.04 33.00 100 299 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5016.56 40.68 54.00 -13.32 30.89 34.59 7.83 32.63 100 299 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5240.00 99.21 ------ ------ 89.65 34.50 8.06 33.00 100 299 AVERAGE

Mode	3	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5396.86 50.31 74.00 -23.69 40.67 34.44 8.45 33.25 100 299 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5399.94 39.05 54.00 -14.95 29.40 34.44 8.46 33.25 100 299 AVERAGE	Blank

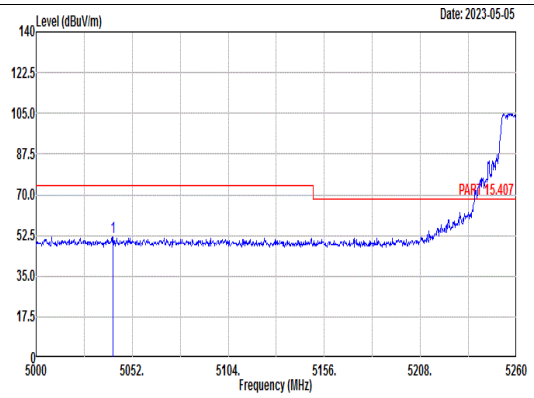
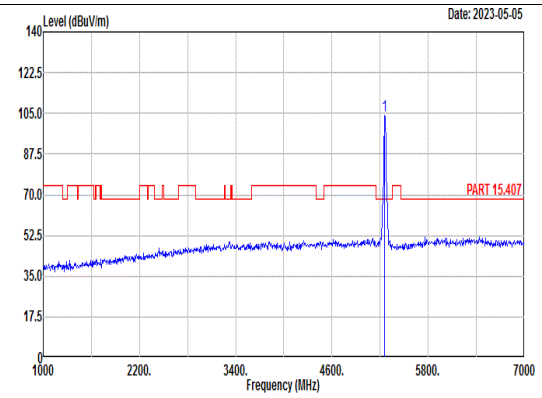
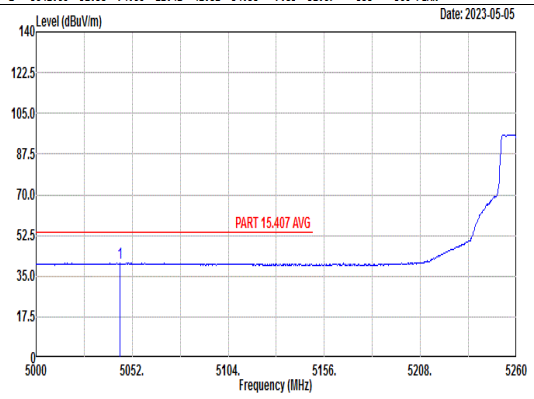
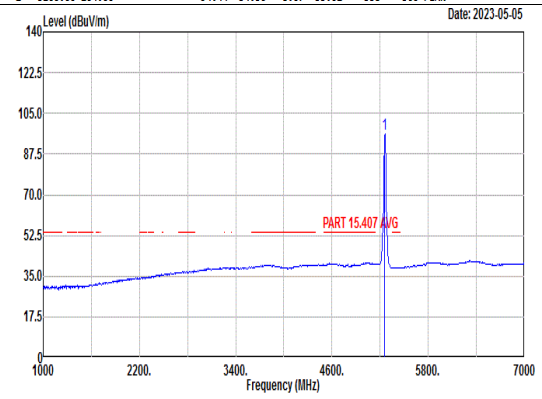
Mode	3
	Band Edge - L
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz
ANT	1

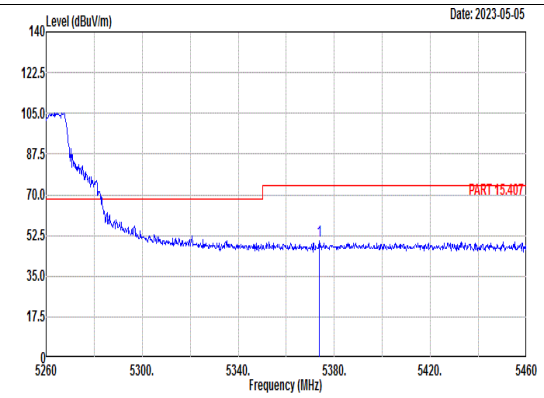
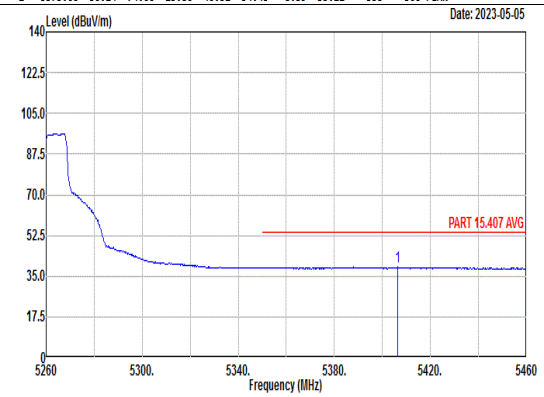
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5036.96 51.49 74.00 -22.51 41.72 34.59 7.84 32.66 325 268 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5240.00 106.61 ------ ------ 97.07 34.51 8.02 32.99 325 268 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5016.32 40.87 54.00 -13.13 31.08 34.59 7.83 32.63 325 268 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5240.00 98.09 ------ ------ 88.55 34.51 8.02 32.99 325 268 AVERAGE

Mode	3	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5391.80 51.01 74.00 -22.99 41.37 34.44 8.44 33.24 325 268 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5404.34 39.09 54.00 -14.91 29.44 34.44 8.47 33.26 325 268 AVERAGE	Blank

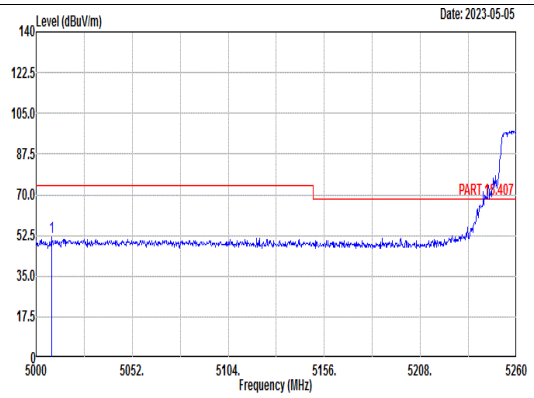
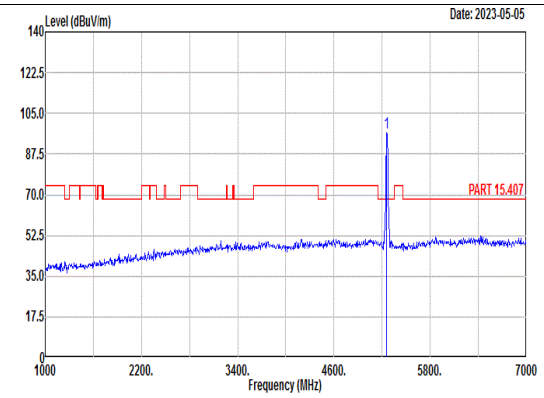
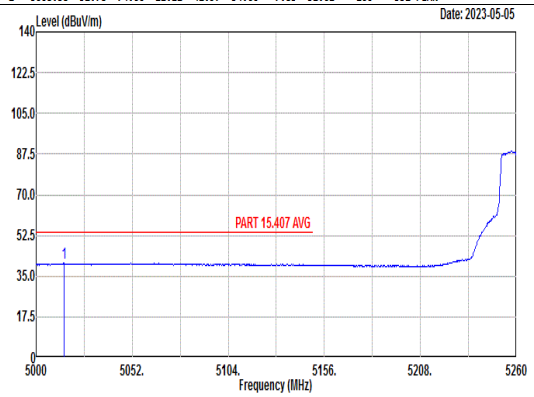
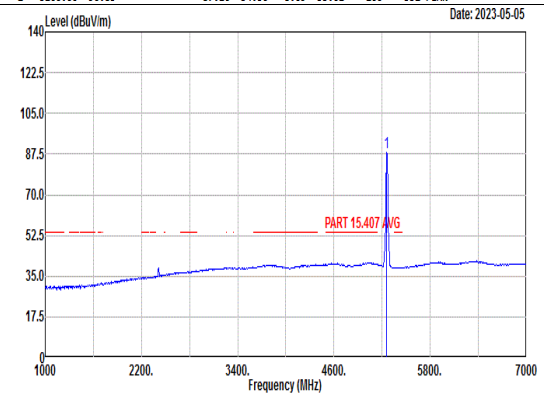
Mode	3	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 48.24 68.30 -20.06 50.96 39.79 10.82 53.33 --- --- Peak 2 15720.00 49.88 74.00 -24.12 49.89 41.92 12.71 54.64 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 3 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 47.84 68.30 -20.46 50.56 39.79 10.82 53.33 --- --- Peak 2 15720.00 49.88 74.00 -24.12 49.89 41.92 12.71 54.64 --- --- Peak

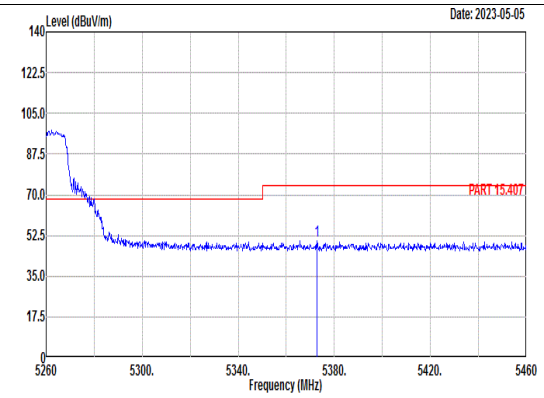
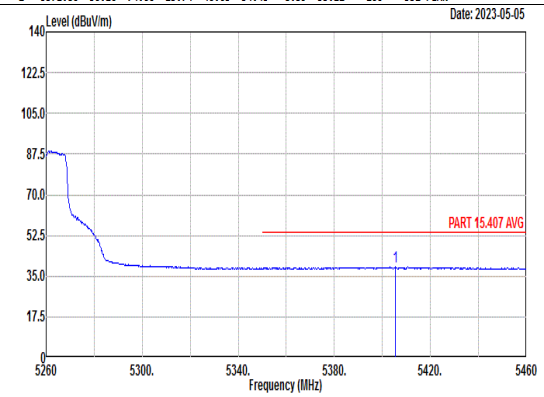
Mode	4
	Band Edge - L
	U-NII-2A_5.25-5.35_802.11a_CH52_5260MHz
ANT	1

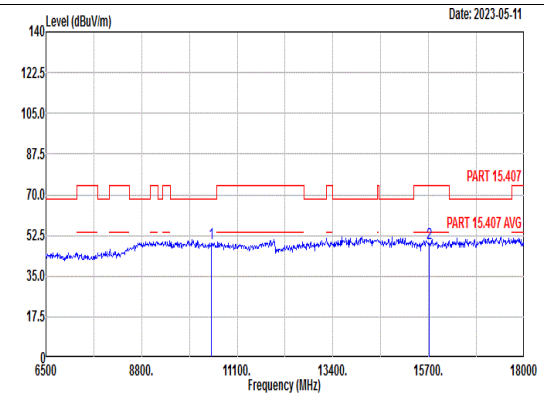
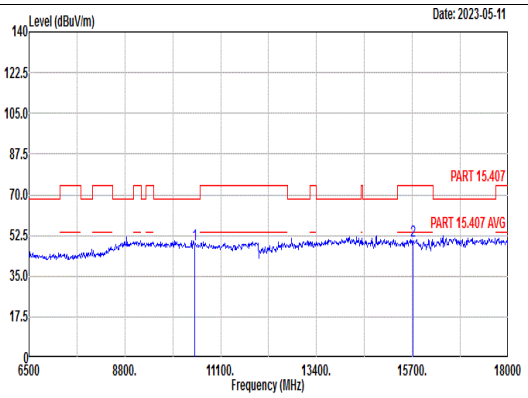
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5041.60 51.58 74.00 -22.42 41.82 34.58 7.85 32.67 358 360 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5260.00 104.00 ------ ------ 94.44 34.50 8.07 33.01 358 360 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5045.50 40.74 54.00 -13.26 30.99 34.58 7.85 32.68 358 360 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5260.00 95.98 ------ ------ 86.42 34.49 8.10 33.03 358 360 AVERAGE

Mode	4	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11a_CH52_5260MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5373.60 50.14 74.00 -23.86 40.51 34.45 8.39 33.21 358 360 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5406.40 38.93 54.00 -15.07 29.27 34.44 8.48 33.26 358 360 AVERAGE	Blank

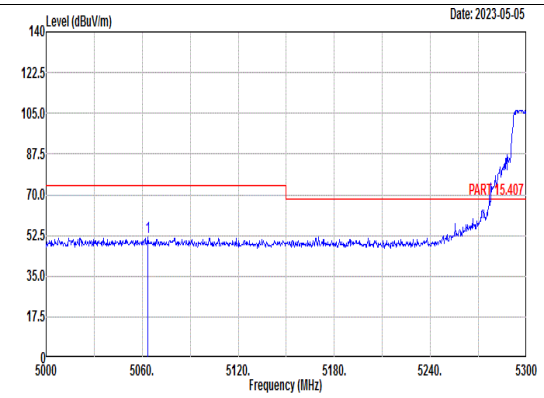
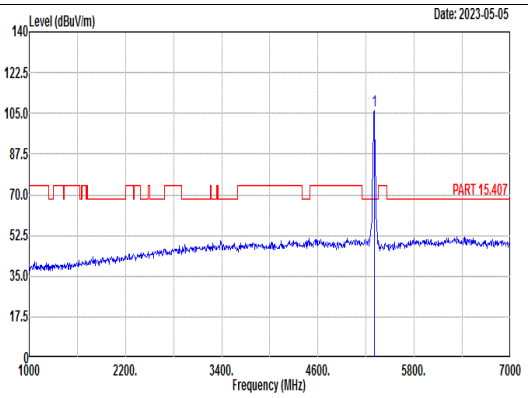
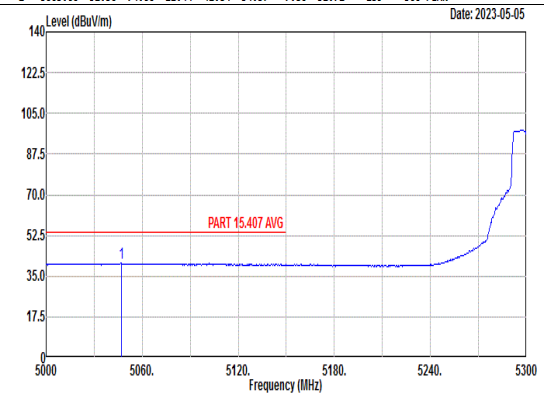
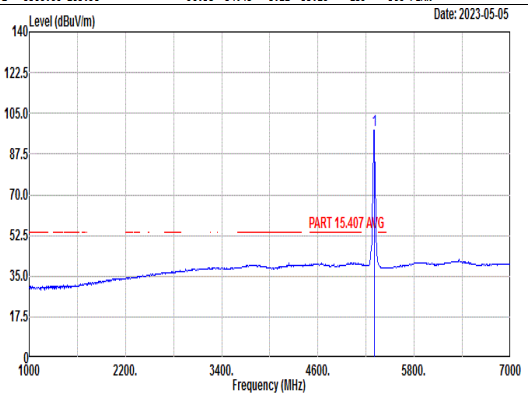
Mode	4
	Band Edge - L
	U-NII-2A_5.25-5.35_802.11a_CH52_5260MHz
ANT	1

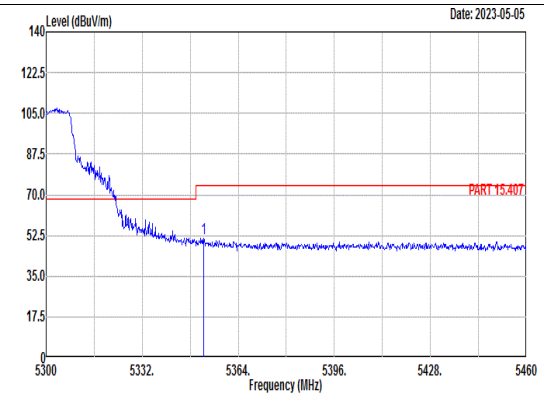
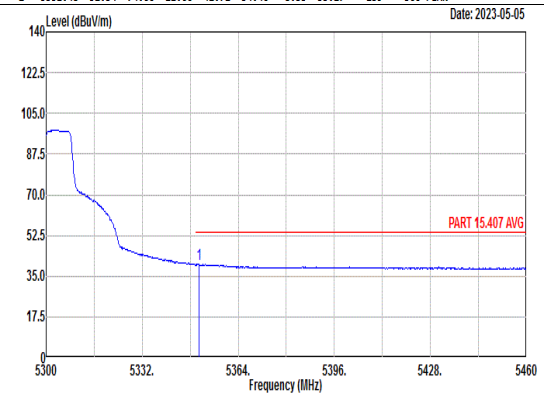
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5008.58 51.78 74.00 -22.22 41.97 34.60 7.83 32.62 100 331 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5260.00 96.83 ------ ------ 87.26 34.50 8.09 33.02 100 331 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5015.08 40.70 54.00 -13.30 30.91 34.59 7.83 32.63 100 331 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5260.00 88.31 ------ ------ 78.75 34.50 8.07 33.01 100 331 AVERAGE

Mode	4	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11a_CH52_5260MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5372.80 50.26 74.00 -23.74 40.63 34.45 8.39 33.21 100 331 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5405.40 38.90 54.00 -15.10 29.24 34.44 8.48 33.26 100 331 AVERAGE	Blank

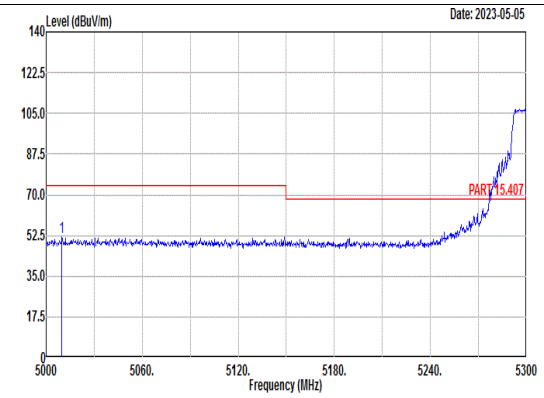
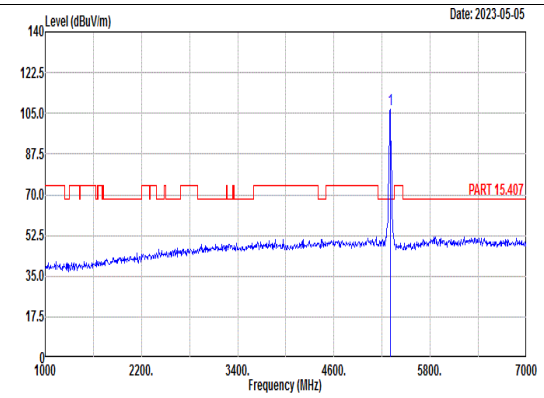
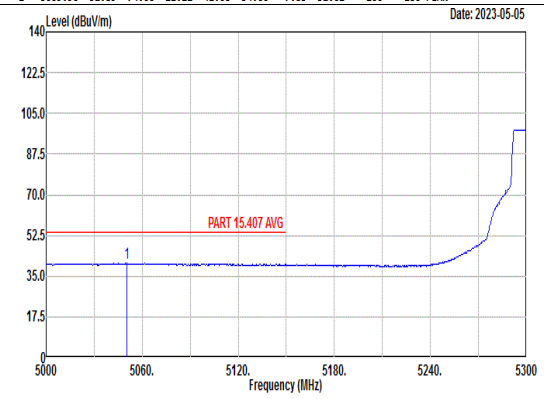
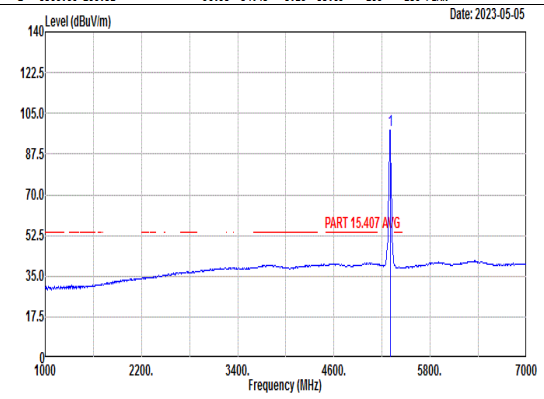
Mode	4	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH52_5260MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 49.08 68.30 -19.22 51.80 39.79 10.82 53.33 --- --- Peak 2 15720.00 49.35 74.00 -24.65 49.36 41.92 12.71 54.64 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 4 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 48.37 68.30 -19.93 51.09 39.79 10.82 53.33 --- --- Peak 2 15720.00 50.26 74.00 -23.74 50.27 41.92 12.71 54.64 --- --- Peak

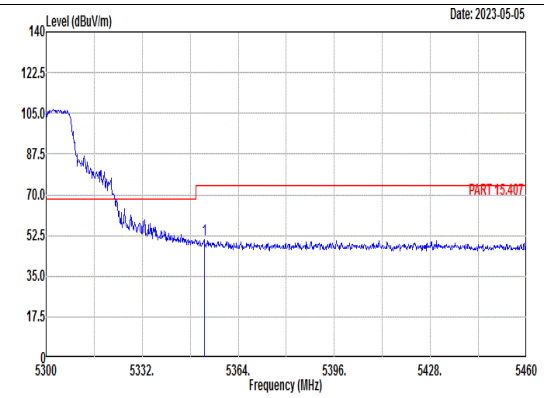
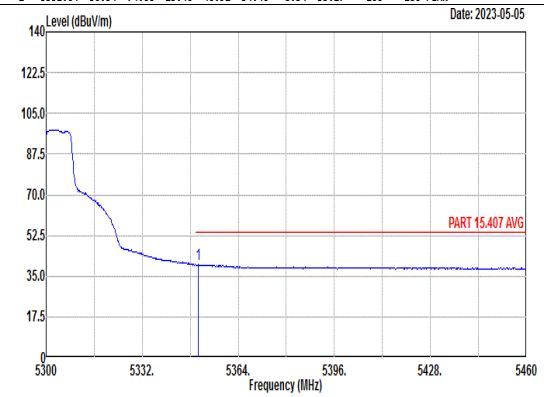
Mode	5
	Band Edge - L
	U-NII-2A_5.25-5.35_802.11a_CH60_5300MHz
ANT	1

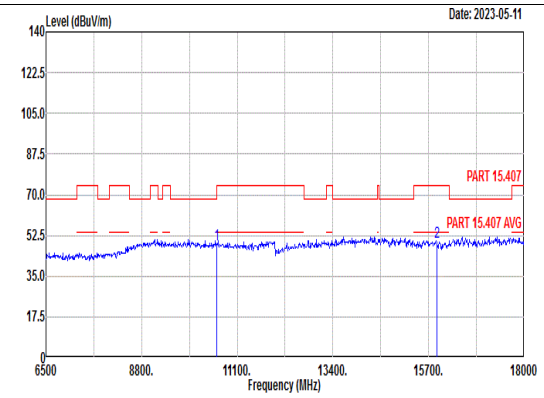
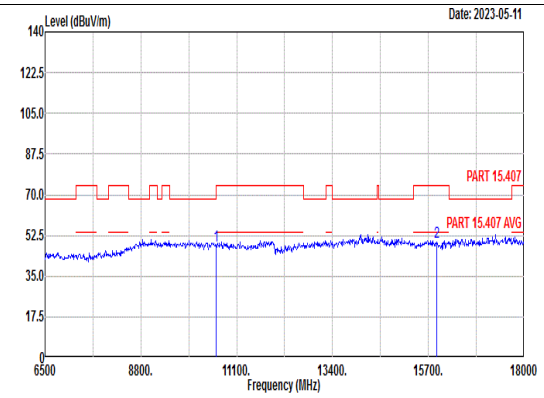
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5063.60 51.56 74.00 -22.44 41.84 34.57 7.86 32.71 239 360 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5300.00 105.98 ------ ------ 96.38 34.48 8.22 33.10 239 360 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5047.10 40.59 54.00 -13.41 30.84 34.58 7.85 32.68 239 360 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5300.00 97.54 ------ ------ 87.96 34.48 8.18 33.08 239 360 AVERAGE

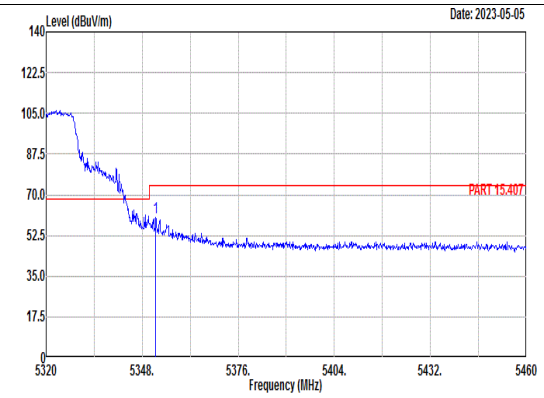
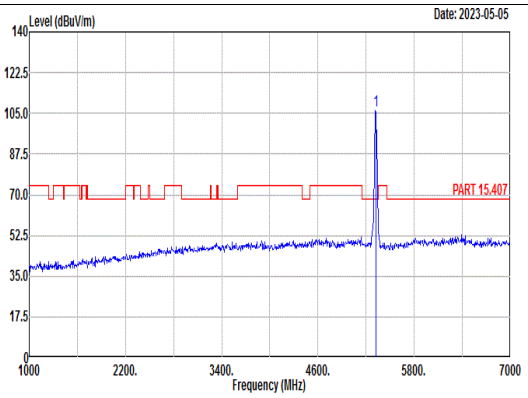
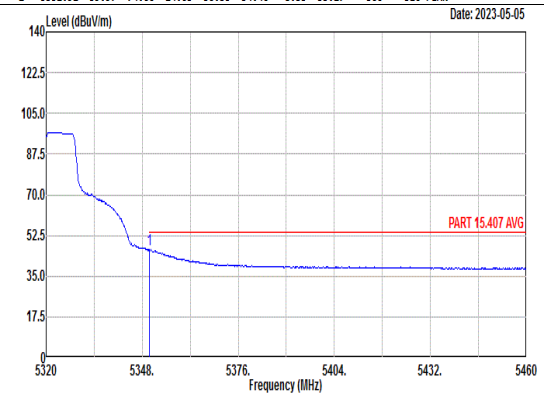
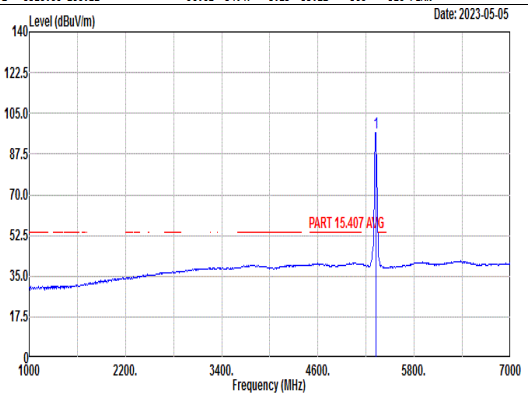
Mode	5	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11a_CH60_5300MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5352.48 51.34 74.00 -22.66 41.72 34.46 8.33 33.17 239 360 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.88 40.35 54.00 -13.65 30.73 34.46 8.33 33.17 239 360 AVERAGE	Blank

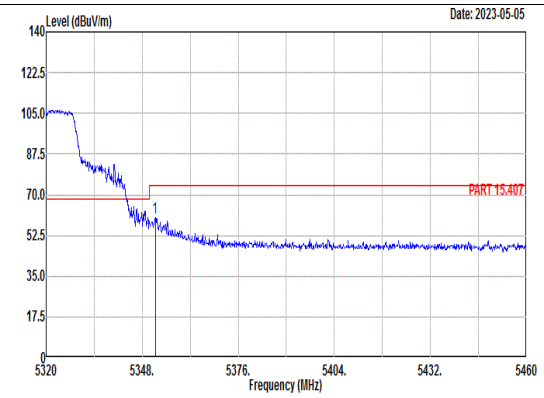
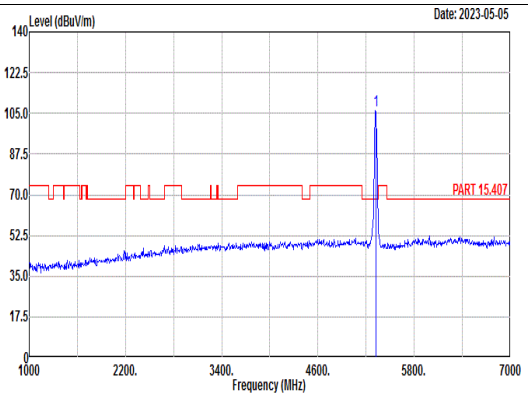
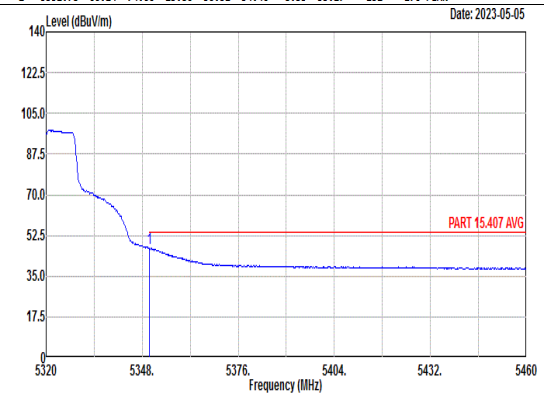
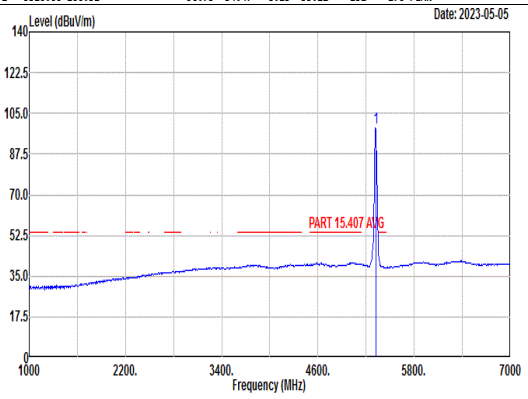
Mode	5
	Band Edge - L
	U-NII-2A_5.25-5.35_802.11a_CH60_5300MHz
ANT	1

Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5009.90 51.89 74.00 -22.11 42.08 34.60 7.83 32.62 200 280 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5300.00 106.52 ------ ------ 96.93 34.48 8.20 33.09 200 280 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5050.40 40.54 54.00 -13.46 30.79 34.58 7.85 32.68 200 280 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5300.00 97.96 ------ ------ 88.38 34.48 8.18 33.08 200 280 AVERAGE

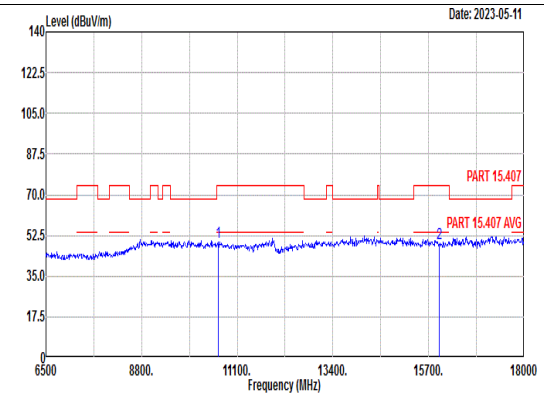
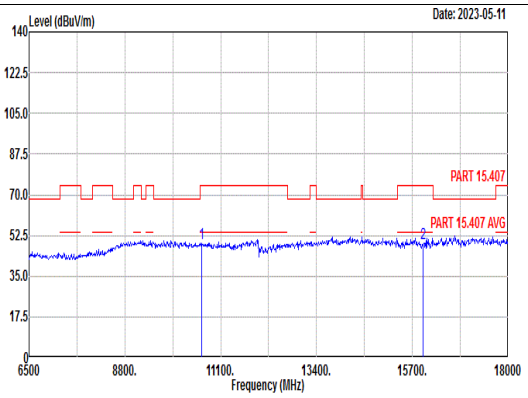
Mode	5	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11a_CH60_5300MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5352.64 50.54 74.00 -23.46 40.91 34.46 8.34 33.17 200 280 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.72 39.92 54.00 -14.08 30.30 34.46 8.33 33.17 200 280 AVERAGE	Blank

Mode	5	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH60_5300MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 48.41 74.00 -25.59 51.25 39.74 10.91 53.49 --- --- Peak 2 15900.00 49.90 74.00 -24.10 49.97 42.10 12.71 54.88 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 5 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 48.04 74.00 -25.96 50.88 39.74 10.91 53.49 --- --- Peak 2 15900.00 49.55 74.00 -24.45 49.62 42.10 12.71 54.88 --- --- Peak

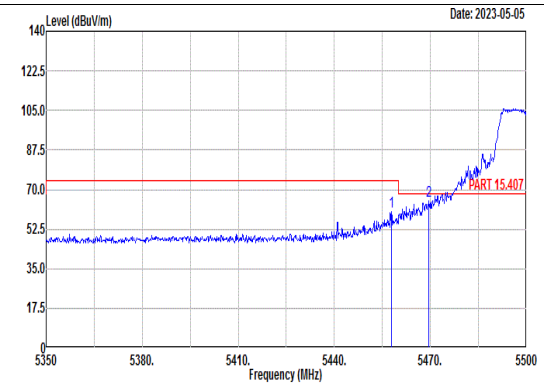
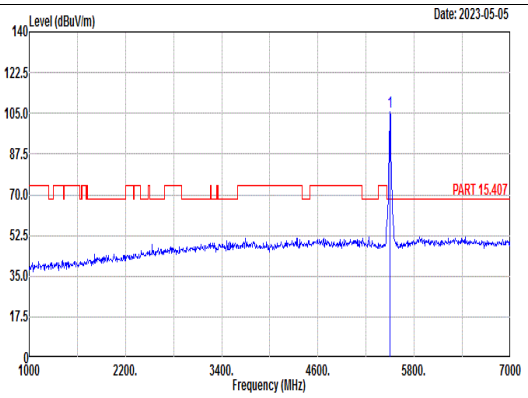
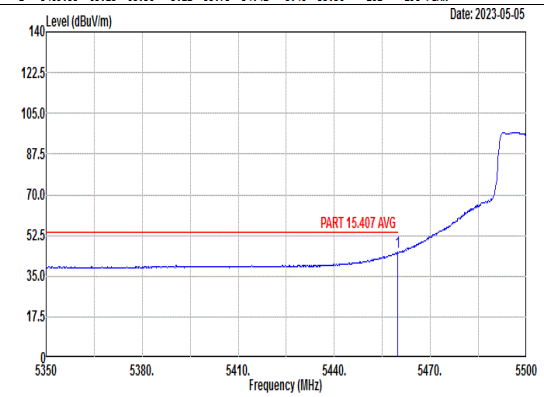
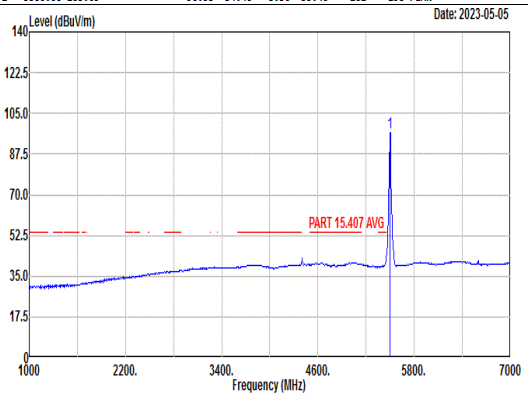
Mode	6	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 6 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5351.92 59.97 74.00 -14.03 50.35 34.46 8.33 33.17 300 326 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 6 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5320.00 106.21 ------ ------ 96.62 34.47 8.23 33.11 300 326 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 6 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.10 46.45 54.00 -7.55 36.83 34.46 8.33 33.17 300 326 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 6 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5320.00 96.90 ------ ------ 87.31 34.47 8.23 33.11 300 326 AVERAGE

Mode	6	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 6 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5351.78 60.14 74.00 -13.86 50.52 34.46 8.33 33.17 251 270 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 6 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5320.00 106.32 ------ ------ 96.73 34.47 8.23 33.11 251 270 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 6 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.10 47.13 54.00 -6.87 37.51 34.46 8.33 33.17 251 270 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 6 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5320.00 98.56 ------ ------ 88.97 34.47 8.23 33.11 251 270 AVERAGE

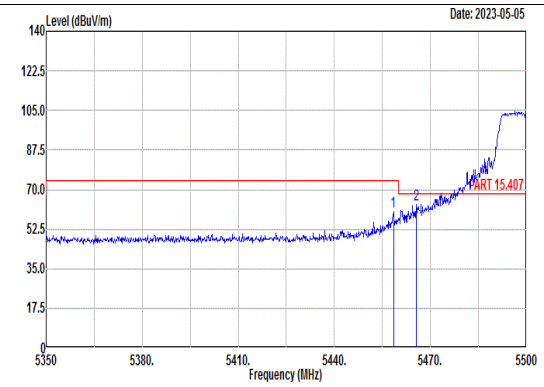
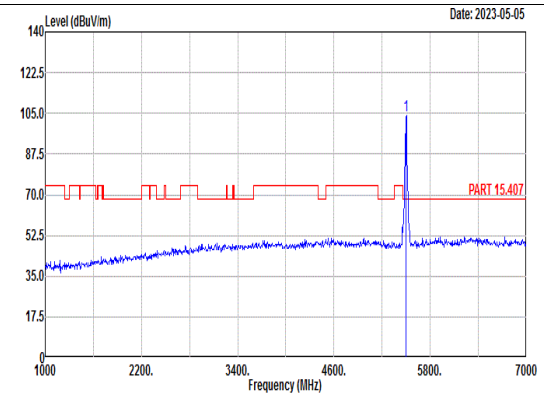
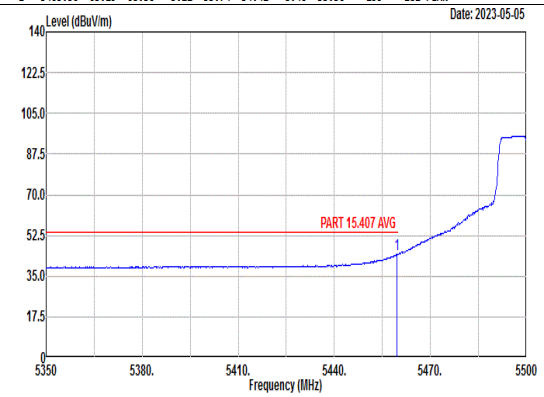
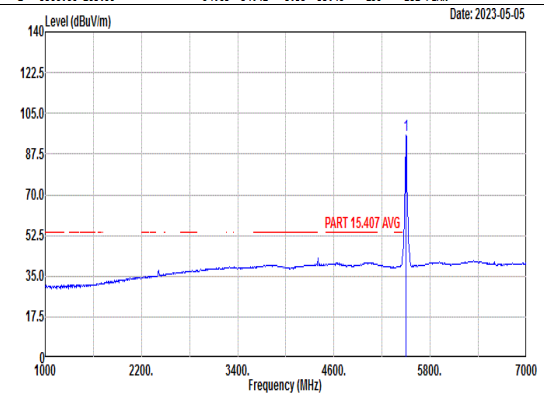
Mode	6
	Harmonic
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz
ANT	1

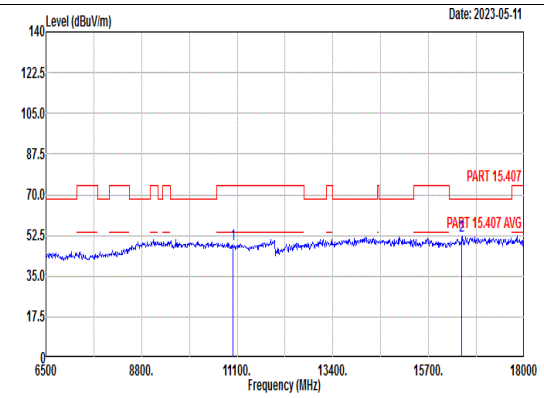
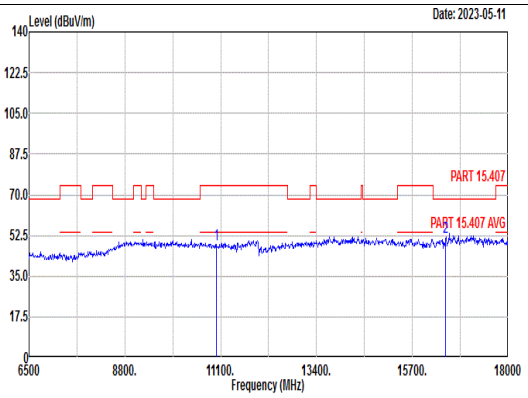
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 6 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 49.41 74.00 -24.59 52.29 39.72 10.94 53.54 --- --- Peak 2 15960.00 49.17 74.00 -24.83 49.27 42.16 12.70 54.96 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 6 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 49.05 74.00 -24.95 51.93 39.72 10.94 53.54 --- --- Peak 2 15960.00 49.02 74.00 -24.98 49.12 42.16 12.70 54.96 --- --- Peak

Mode	7
	Band Edge
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz
ANT	1

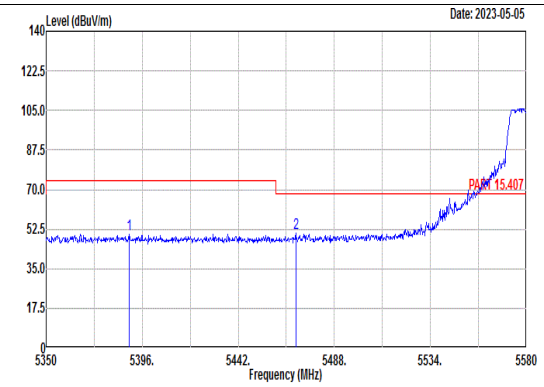
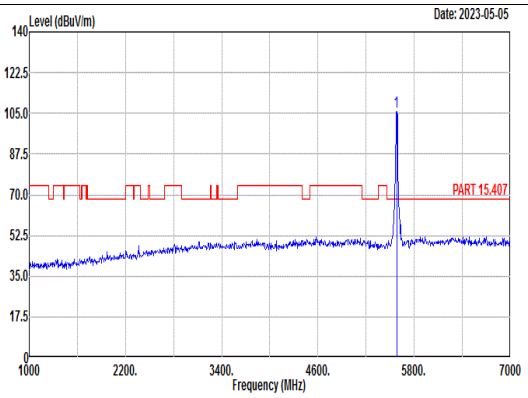
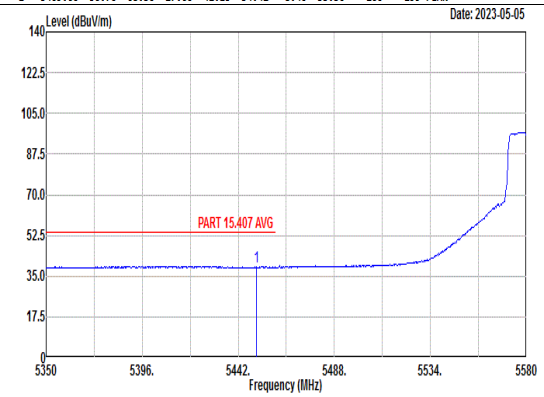
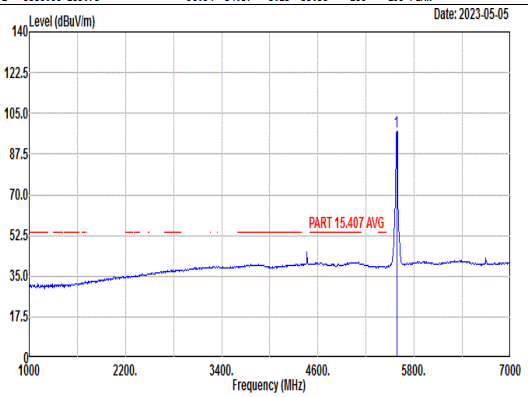
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 7 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 5457.85 60.14 74.00 -13.86 50.65 34.42 8.41 33.34 102 298 PEAK 2 5469.55 65.18 68.30 -3.12 55.73 34.41 8.40 33.36 102 298 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 7 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 5500.00 105.69 ------ ------ 96.33 34.40 8.36 33.40 102 298 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 7 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 5459.80 45.58 54.00 -8.42 36.10 34.42 8.41 33.35 102 298 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 7 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 5500.00 96.68 ------ ------ 87.32 34.40 8.36 33.40 102 298 AVERAGE

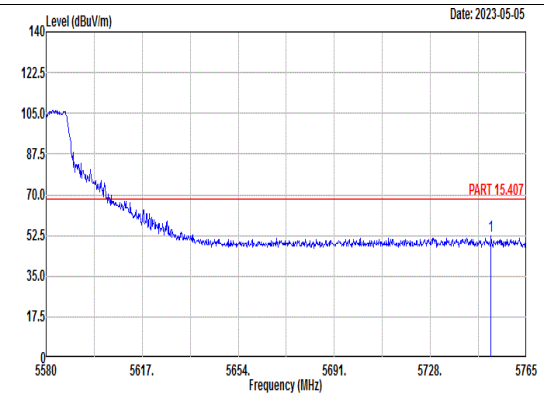
Mode	7
	Band Edge
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz
ANT	1

Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 7 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5458.45 60.07 74.00 -13.93 50.59 34.42 8.41 33.35 199 282 PEAK 2 5465.50 63.19 68.30 -5.11 53.74 34.41 8.40 33.36 199 282 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 7 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5500.00 103.99 ------ ------ 94.63 34.41 8.35 33.40 199 282 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 7 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5459.65 44.48 54.00 -9.52 35.00 34.42 8.41 33.35 199 282 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 7 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5500.00 95.41 ------ ------ 86.05 34.40 8.36 33.40 199 282 AVERAGE

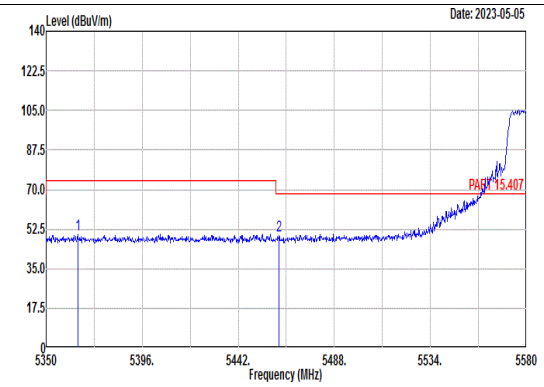
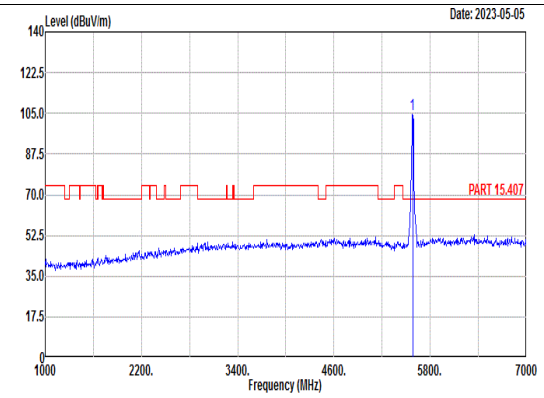
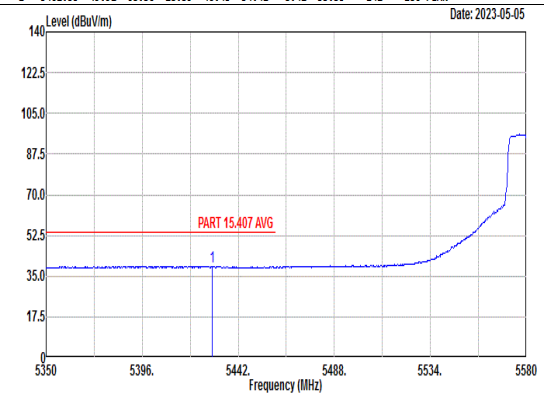
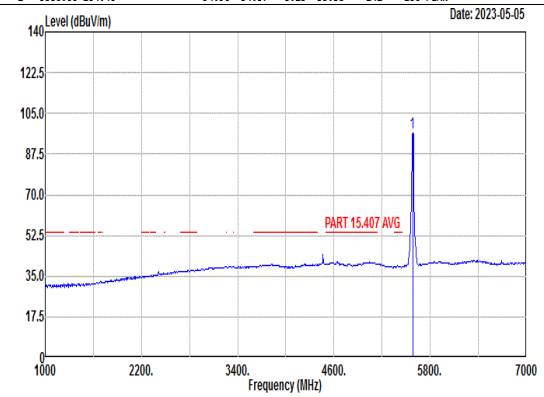
Mode	7	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 7 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11000.00 48.43 74.00 -25.57 51.72 39.50 11.21 54.00 --- --- Peak 2 16500.00 52.34 68.30 -15.96 50.52 42.50 12.91 53.59 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 7 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11000.00 48.37 74.00 -25.63 51.66 39.50 11.21 54.00 --- --- Peak 2 16500.00 51.80 68.30 -16.50 49.98 42.50 12.91 53.59 --- --- Peak

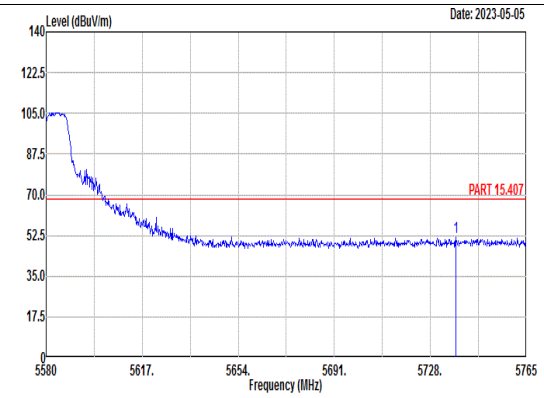
Mode	8
	Band Edge - L
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz
ANT	1

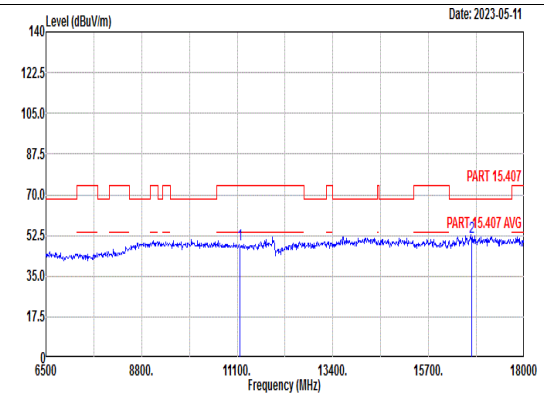
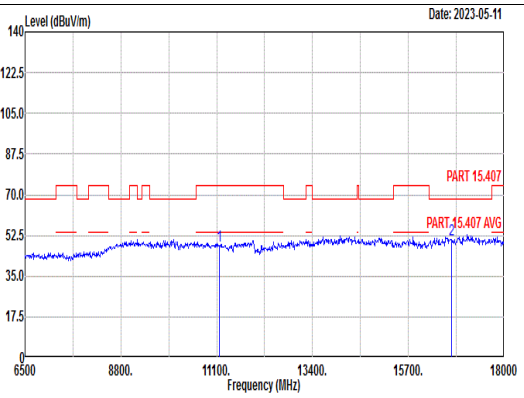
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 5389.79 50.38 74.00 -23.62 40.74 34.44 8.43 33.23 100 299 PEAK 2 5469.60 50.70 68.30 -17.60 41.25 34.41 8.40 33.36 100 299 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 5580.00 105.78 ------ ------ 96.34 34.57 8.25 33.38 100 299 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 5450.74 39.26 54.00 -14.74 29.75 34.42 8.42 33.33 100 299 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 5580.00 97.24 ------ ------ 87.80 34.58 8.24 33.38 100 299 AVERAGE

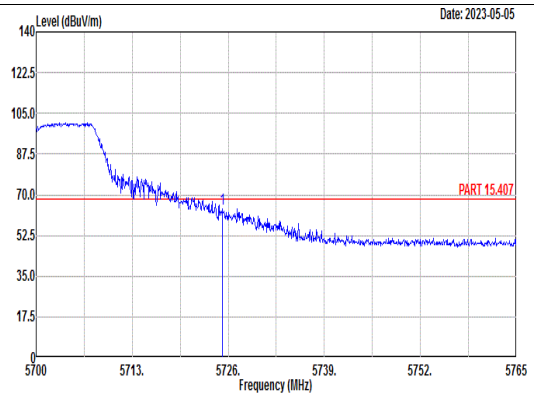
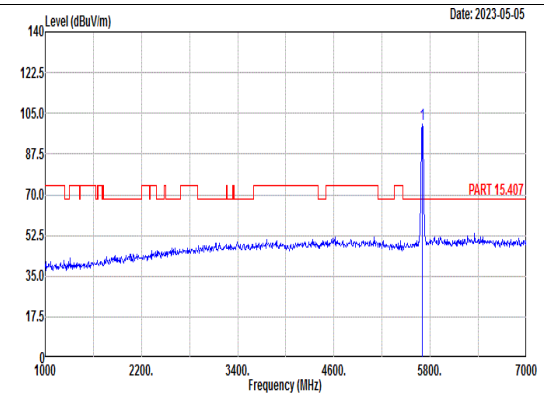
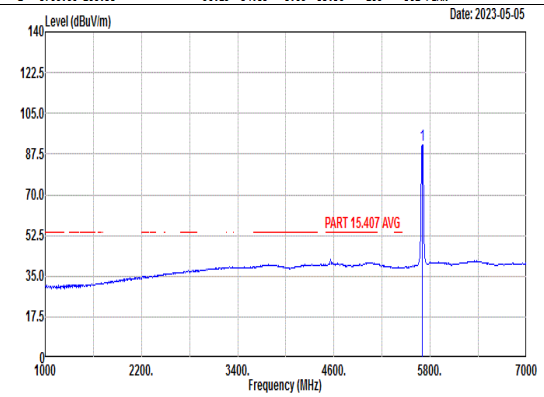
Mode	8	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5751.31 52.14 68.30 -16.16 41.77 34.95 8.77 33.35 100 299 PEAK	Blank

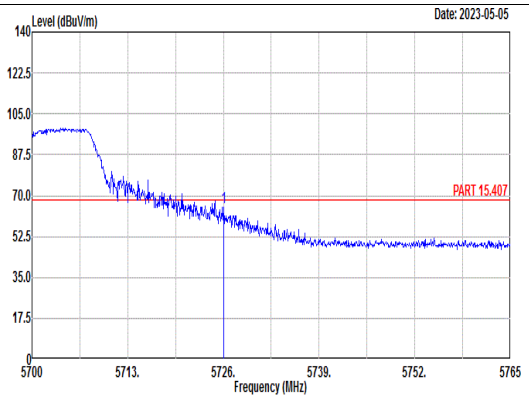
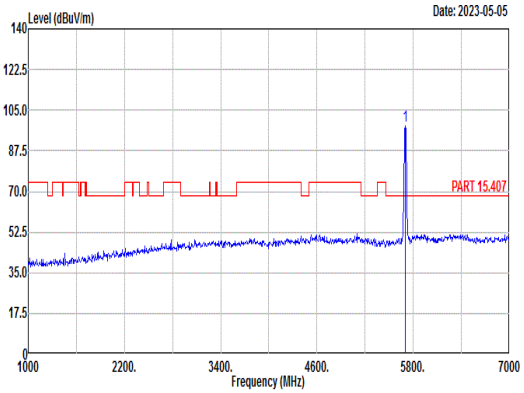
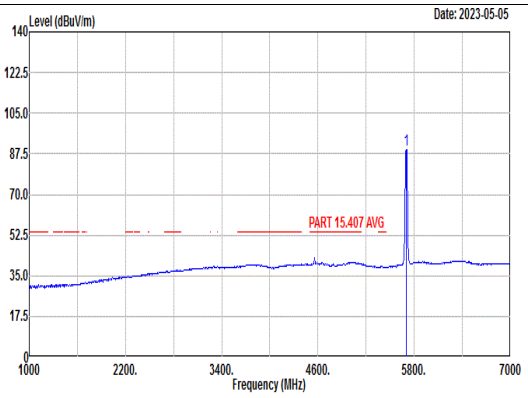
Mode	8
	Band Edge - L
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz
ANT	1

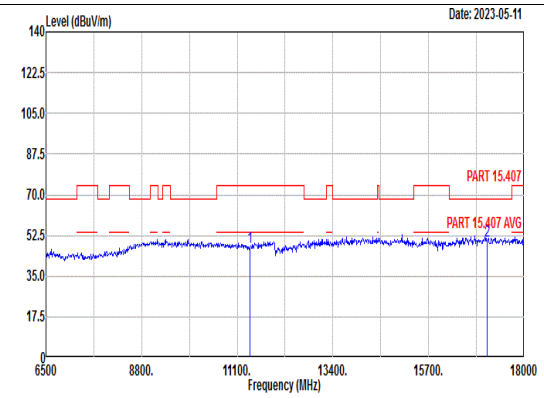
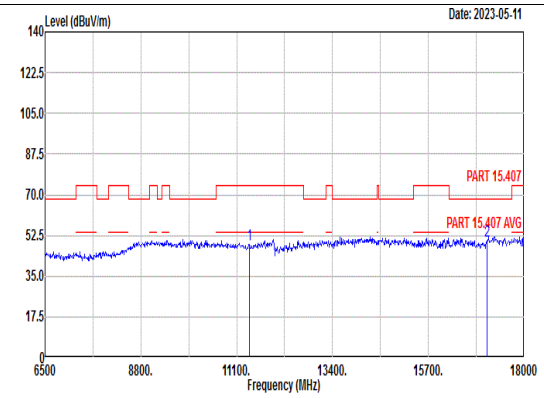
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5365.18 50.40 74.00 -23.60 40.77 34.45 8.37 33.19 241 286 PEAK 2 5461.55 49.91 68.30 -18.39 40.43 34.42 8.41 33.35 241 286 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5580.00 104.40 ------ ------ 94.96 34.57 8.25 33.38 241 286 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5429.58 39.26 54.00 -14.74 29.68 34.43 8.45 33.30 241 286 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5580.00 96.48 ------ ------ 87.04 34.58 8.24 33.38 241 286 AVERAGE

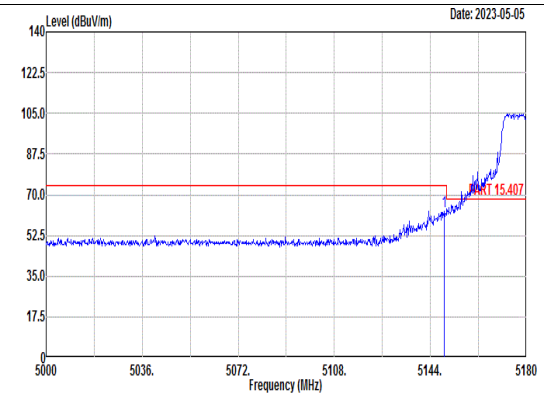
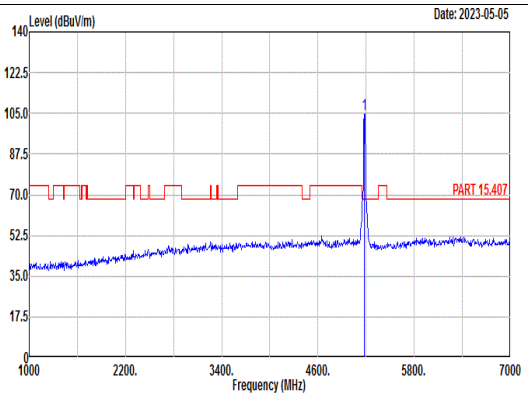
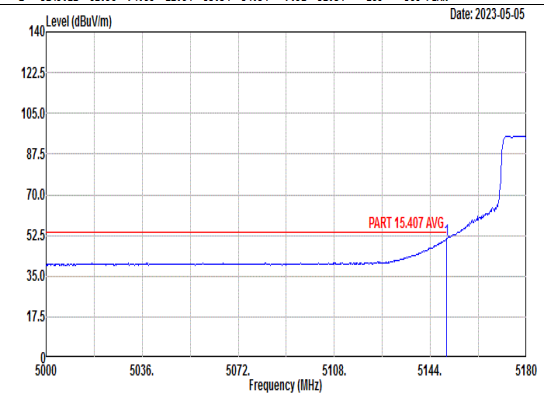
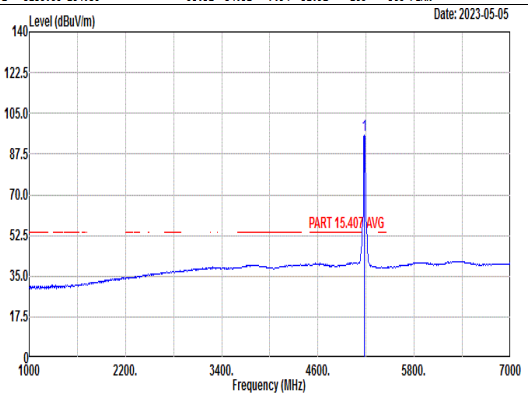
Mode	8	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5737.81 51.57 68.30 -16.73 41.28 34.92 8.72 33.35 241 286 PEAK	Blank
Avg	Blank	Blank

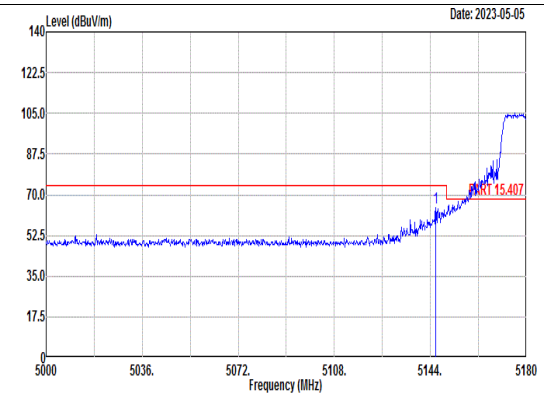
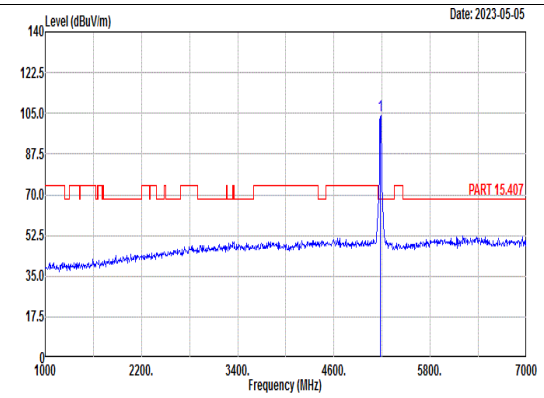
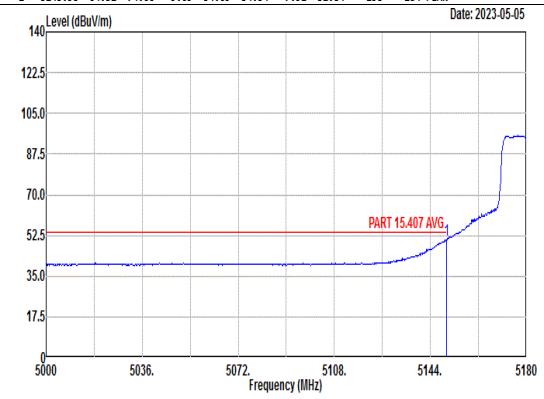
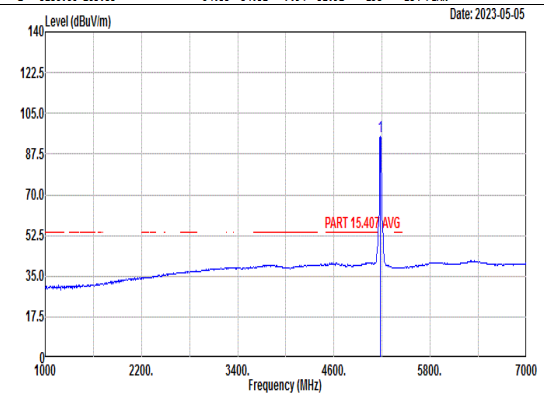
Mode	8	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 11160.00 48.42 74.00 -25.58 51.56 39.47 11.29 53.90 --- --- Peak 2 16740.00 51.78 68.30 -16.52 49.24 42.45 13.01 52.92 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 8 Setting : 6M Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 1 11160.00 48.00 74.00 -26.00 51.14 39.47 11.29 53.90 --- --- Peak 2 16740.00 50.46 68.30 -17.84 47.92 42.45 13.01 52.92 --- --- Peak

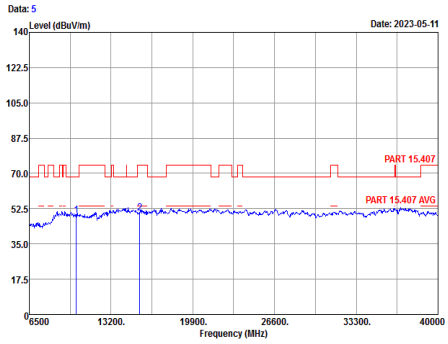
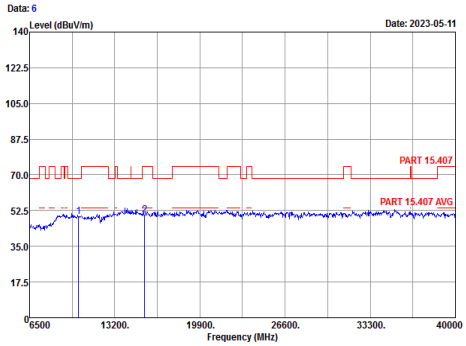
Mode	9	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 9 Setting : 6M Power setting 12 Plane : Z with accessaries : 352000530016413/352000530016421 1 5725.16 64.18 68.30 -4.12 53.97 34.90 8.67 33.36 100 301 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 9 Setting : 6M Power setting 12 Plane : Z with accessaries : 352000530016413/352000530016421 1 5700.00 100.38 ------ ------ 90.29 34.85 8.60 33.36 100 301 PEAK
Avg	Blank	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 9 Setting : 6M Power setting 12 Plane : Z with accessaries : 352000530016413/352000530016421 1 5700.00 91.61 ------ ------ 81.52 34.85 8.60 33.36 100 301 AVERAGE

Mode	9	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 9 Setting : 6M Power setting 12 Plane : Z with accessaries : 352000530016413/352000530016421 1 5726.00 65.06 68.30 -3.24 54.83 34.90 8.68 33.35 334 276 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 9 Setting : 6M Power setting 12 Plane : Z with accessaries : 352000530016413/352000530016421 1 5700.00 98.35 ------ ------ 88.26 34.85 8.60 33.36 334 276 PEAK
Avg	Blank	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 9 Setting : 6M Power setting 12 Plane : Z with accessaries : 352000530016413/352000530016421 1 5700.00 89.53 ------ ------ 79.44 34.85 8.60 33.36 334 276 AVERAGE

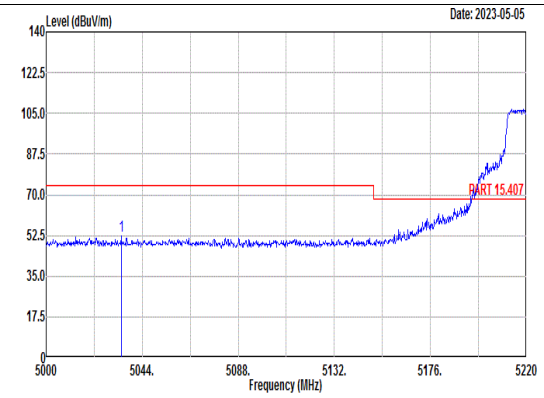
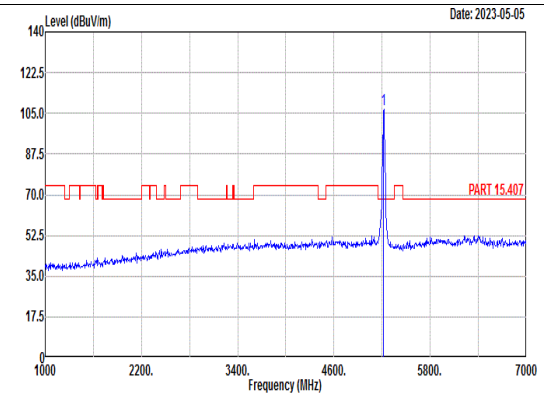
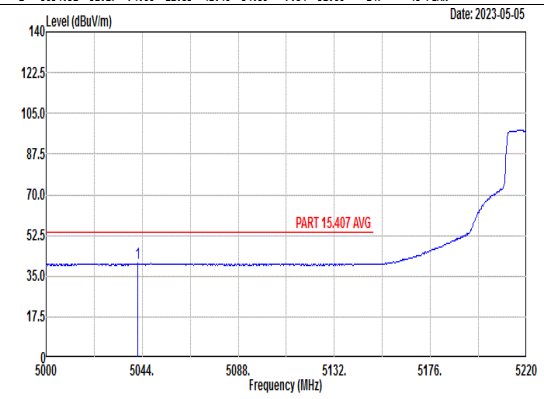
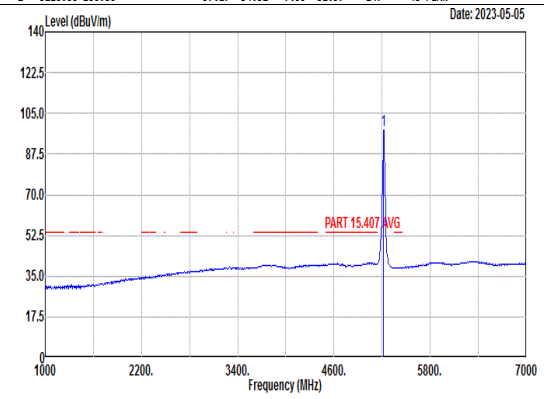
Mode	9	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 9 Setting : 6M Power setting 12 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11400.00 47.72 74.00 -26.28 50.65 39.42 11.41 53.76 --- --- Peak 2 17100.00 50.34 68.30 -17.96 47.09 42.38 13.14 52.27 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 9 Setting : 6M Power setting 12 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11400.00 48.74 74.00 -25.26 51.67 39.42 11.41 53.76 --- --- Peak 2 17100.00 50.18 68.30 -18.12 46.93 42.38 13.14 52.27 --- --- Peak

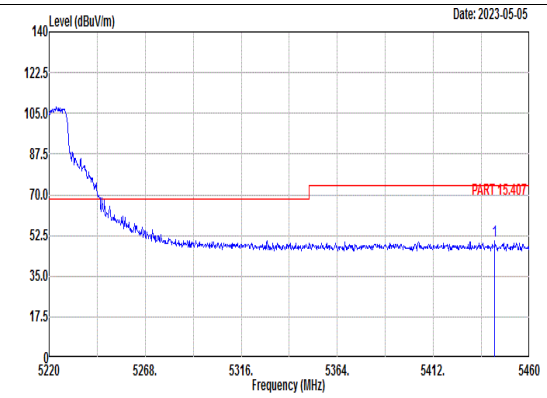
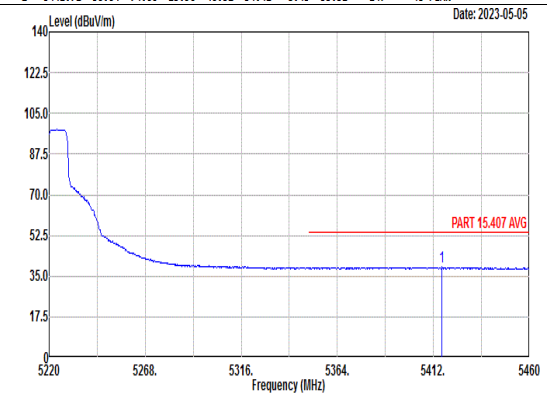
Mode	10	
	Band Edge	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 10 Setting : MCS0 Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.22 62.96 74.00 -11.04 53.34 34.54 7.92 32.84 260 360 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 10 Setting : MCS0 Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5180.00 104.86 ------ ------ 95.31 34.52 7.94 32.91 260 360 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 10 Setting : MCS0 Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.94 50.92 54.00 -3.08 41.31 34.54 7.92 32.85 260 360 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 10 Setting : MCS0 Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5180.00 95.83 ------ ------ 86.26 34.53 7.94 32.90 260 360 AVERAGE

Mode	10	
	Band Edge	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 10 Setting : MCS0 Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5145.98 64.31 74.00 -9.69 54.69 34.54 7.92 32.84 298 284 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 10 Setting : MCS0 Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5180.00 103.88 ------ ------ 94.33 34.52 7.94 32.91 298 284 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 10 Setting : MCS0 Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.94 50.93 54.00 -3.07 41.32 34.54 7.92 32.85 298 284 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 10 Setting : MCS0 Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5180.00 95.21 ------ ------ 85.63 34.53 7.94 32.89 298 284 AVERAGE

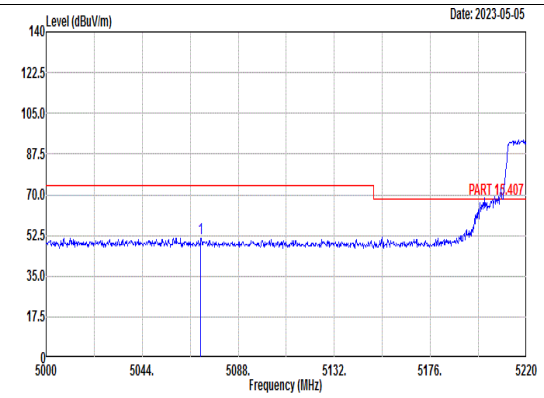
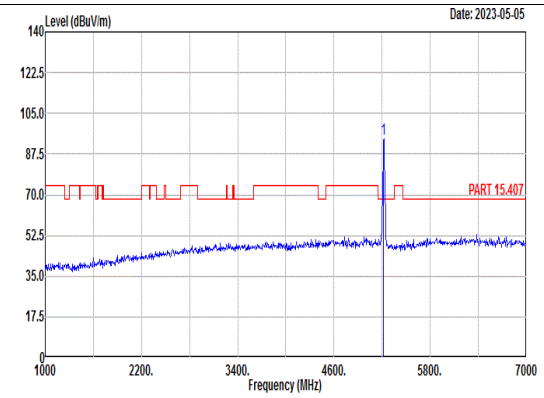
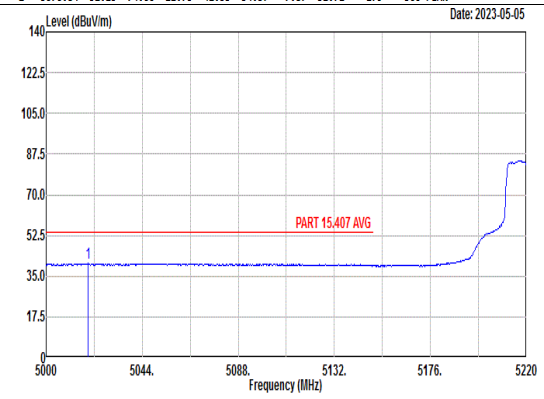
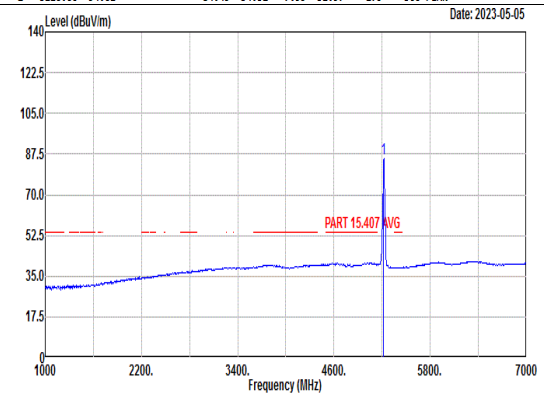
Mode	10	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 10 Setting : MCS0 Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 1 10360.00 49.04 -19.26 68.30 51.77 39.72 10.73 53.18 --- --- Peak 2 15540.00 50.47 -23.53 74.00 50.40 41.74 12.72 54.39 --- --- Peak	 Site : 03CH03-SZ Condition : PART 15.407 3m ANT3117_0057 VERTICAL Mode : 10 Setting : MCS0 Power setting 17 Plane : Z with accessaries : 352000530016413/352000530016421 1 10360.00 49.53 -18.77 68.30 52.26 39.72 10.73 53.18 --- --- Peak 2 15540.00 50.14 -23.86 74.00 50.07 41.74 12.72 54.39 --- --- Peak

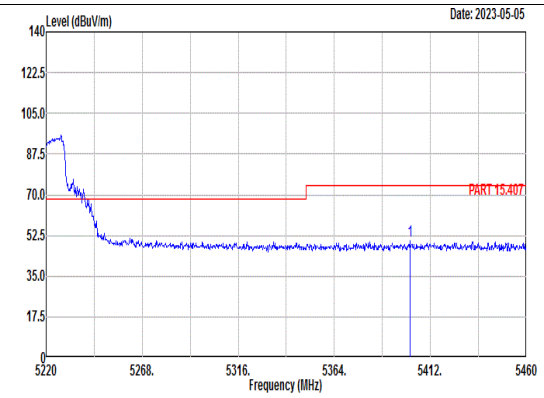
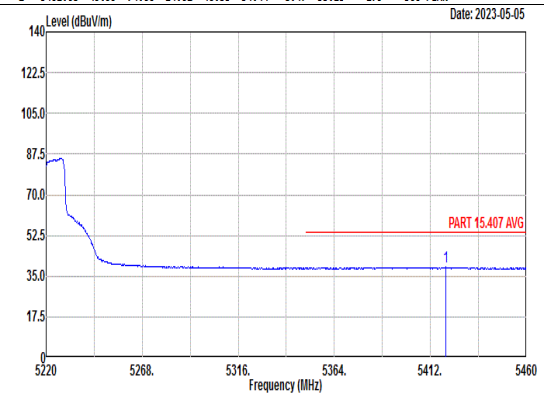
Mode	11
	Band Edge - L
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz
ANT	1

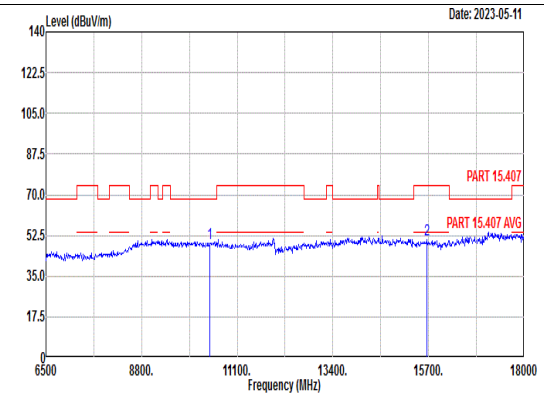
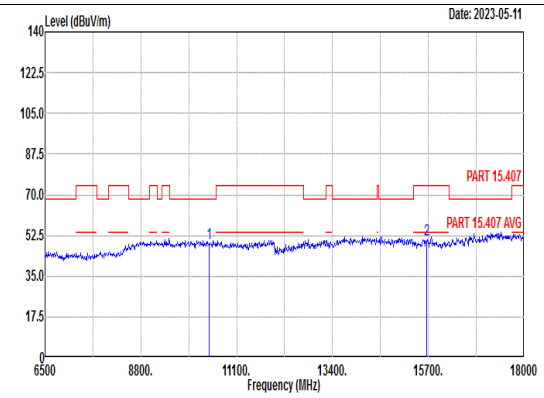
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5034.32 52.17 74.00 -21.83 42.40 34.59 7.84 32.66 247 48 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5220.00 106.80 ------ ------ 97.27 34.51 7.99 32.97 247 48 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5042.02 40.47 54.00 -13.53 30.71 34.58 7.85 32.67 247 48 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5220.00 97.75 ------ ------ 88.22 34.51 7.99 32.97 247 48 AVERAGE

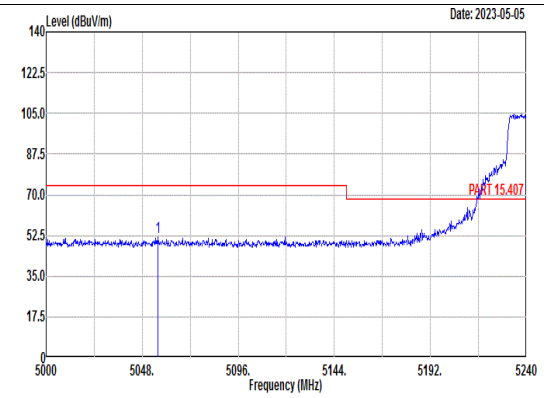
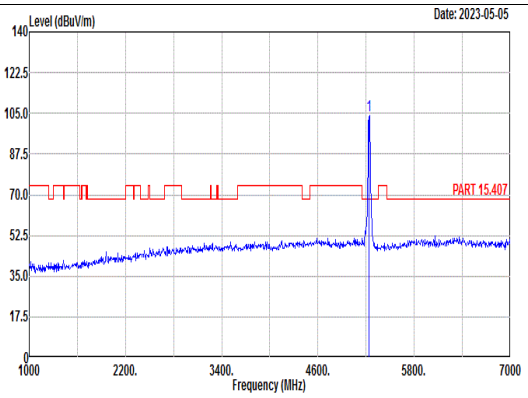
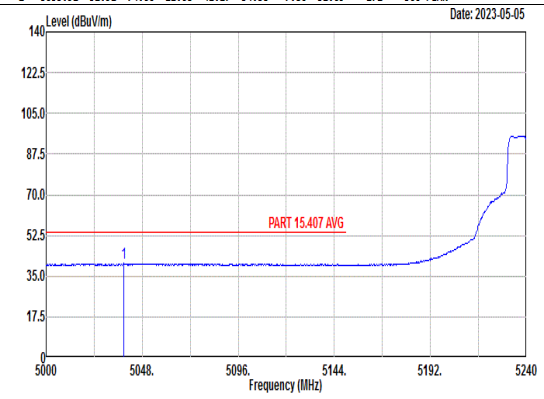
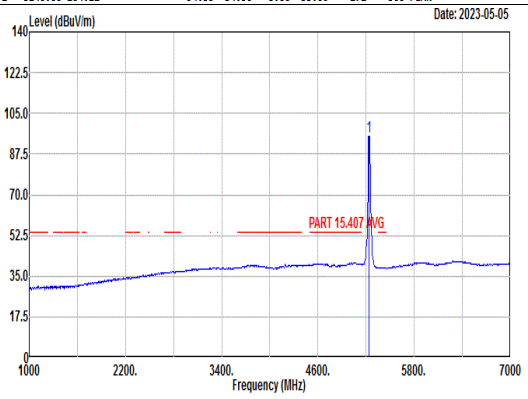
Mode	11	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5442.72 50.04 74.00 -23.96 40.51 34.42 8.43 33.32 247 48 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5416.32 38.85 54.00 -15.15 29.23 34.43 8.47 33.28 247 48 AVERAGE	Blank

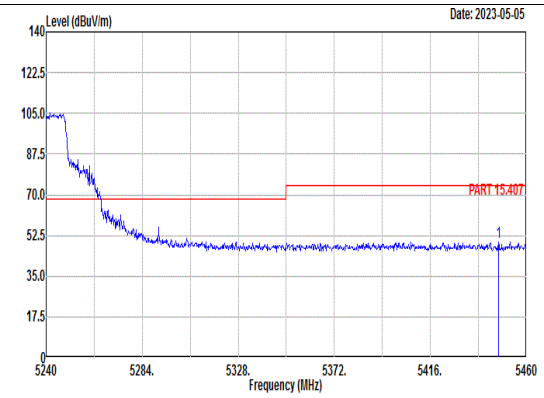
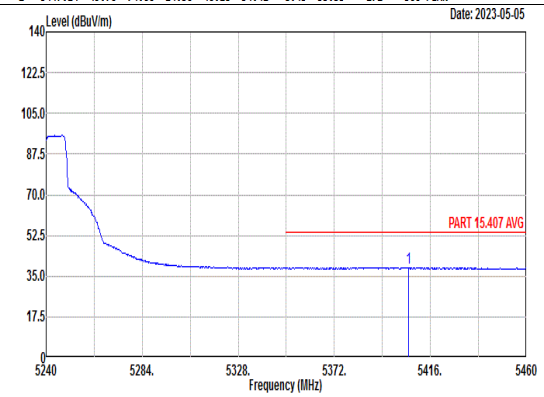
Mode	11
	Band Edge - L
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz
ANT	1

Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5070.84 51.25 74.00 -22.75 41.53 34.57 7.87 32.72 279 360 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5220.00 94.02 ------ ------ 84.49 34.51 7.99 32.97 279 360 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5019.14 40.42 54.00 -13.58 30.63 34.59 7.83 32.63 279 360 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5220.00 85.33 ------ ------ 75.79 34.51 8.01 32.98 279 360 AVERAGE

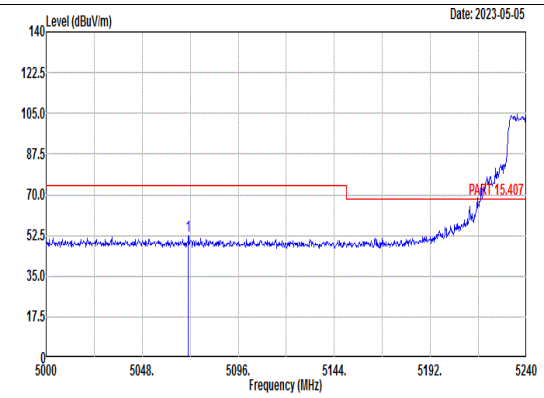
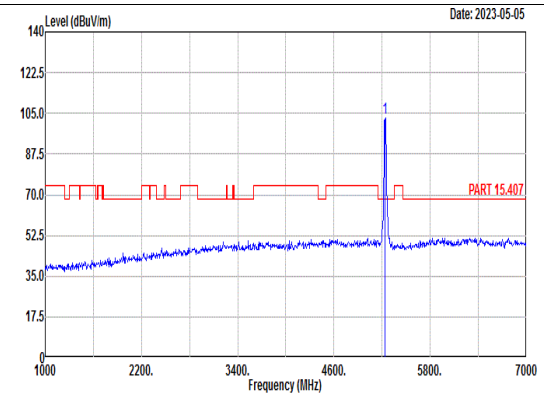
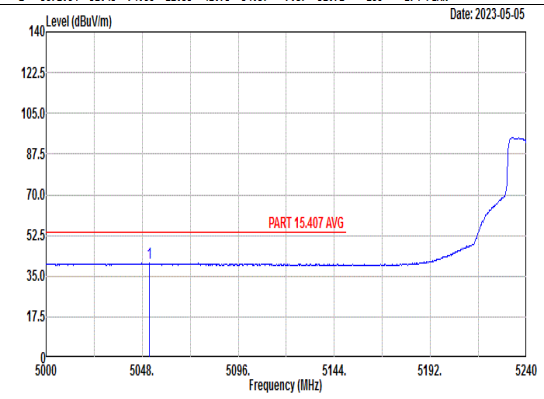
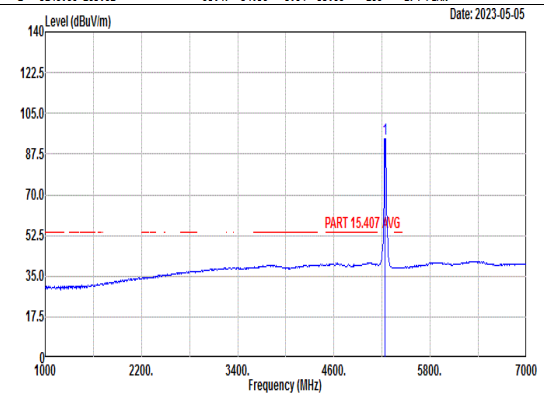
Mode	11	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5401.68 49.99 74.00 -24.01 40.33 34.44 8.47 33.25 279 360 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5419.68 38.90 54.00 -15.10 29.29 34.43 8.46 33.28 279 360 AVERAGE	Blank

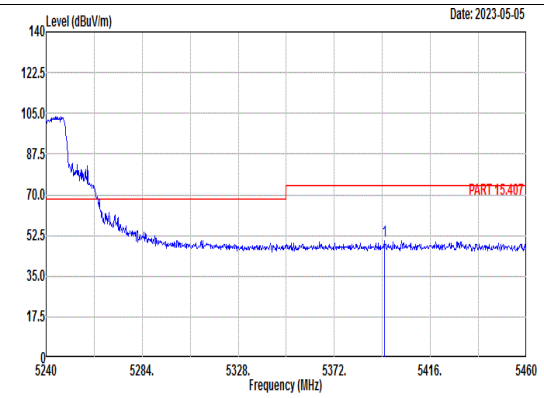
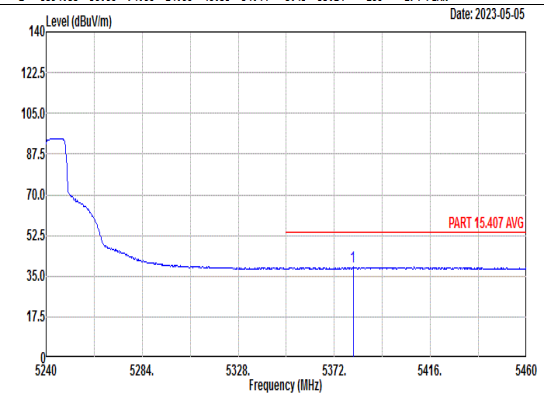
Mode	11	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10440.00 49.03 68.30 -19.27 51.76 39.76 10.79 53.28 --- --- Peak 2 15660.00 50.57 74.00 -23.43 50.55 41.86 12.72 54.56 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 11 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10440.00 49.05 68.30 -19.25 51.78 39.76 10.79 53.28 --- --- Peak 2 15660.00 50.69 74.00 -23.31 50.67 41.86 12.72 54.56 --- --- Peak

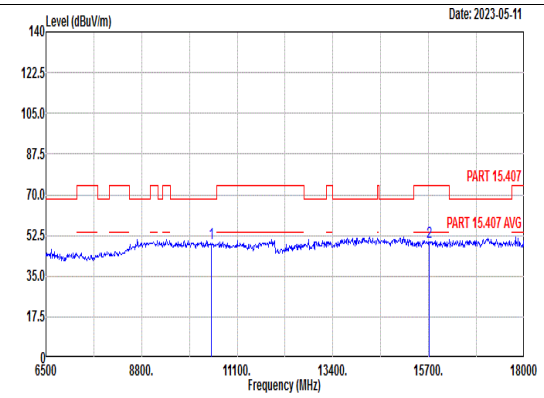
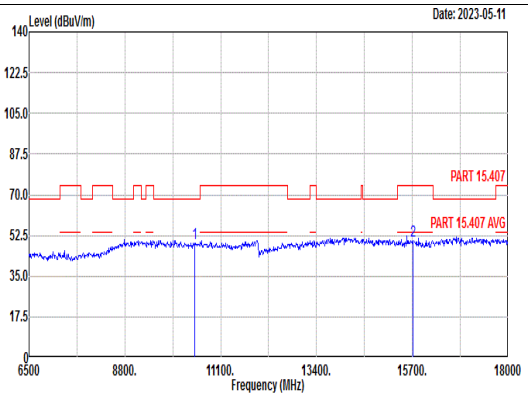
Mode	12	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5055.92 51.92 74.00 -22.08 42.17 34.58 7.86 32.69 171 360 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5240.00 104.11 ------ ------ 94.55 34.50 8.06 33.00 171 360 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5038.88 40.42 54.00 -13.58 30.67 34.58 7.84 32.67 171 360 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5240.00 95.30 ------ ------ 85.76 34.50 8.04 33.00 171 360 AVERAGE

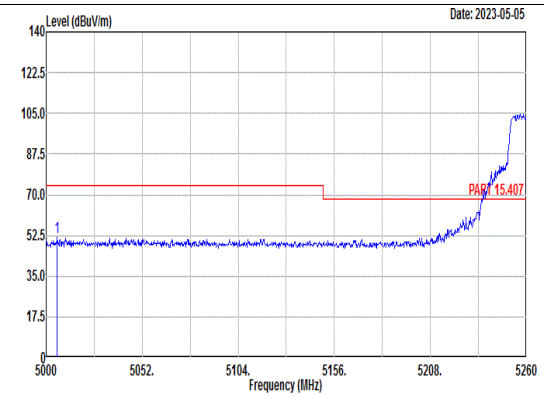
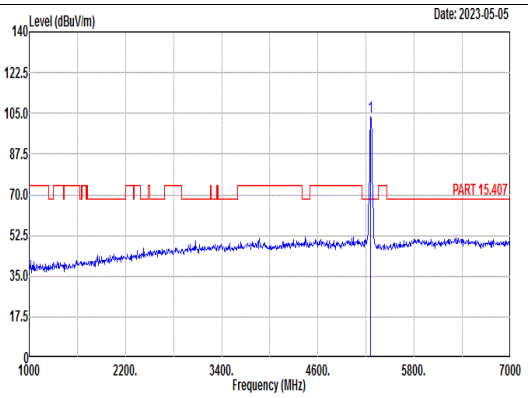
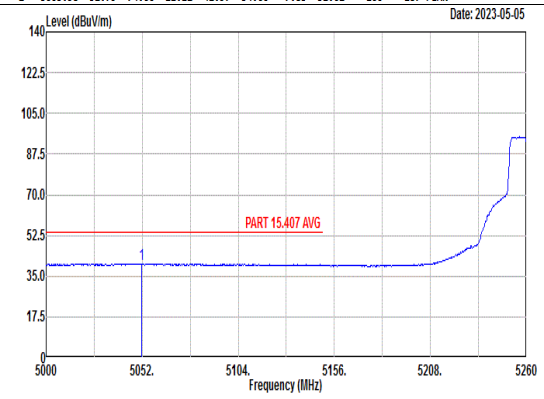
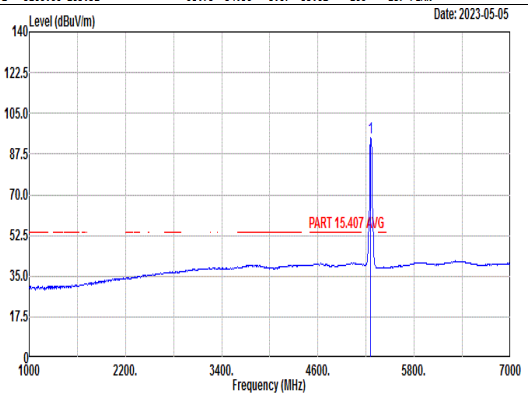
Mode	12	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5447.24 49.70 74.00 -24.30 40.18 34.42 8.43 33.33 171 360 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5405.88 38.80 54.00 -15.20 29.14 34.44 8.48 33.26 171 360 AVERAGE	Blank

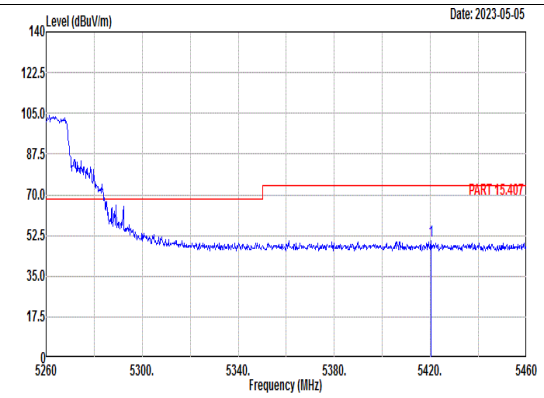
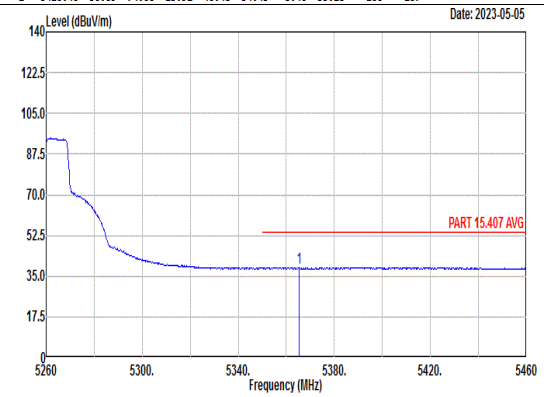
Mode	12
	Band Edge - L
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz
ANT	1

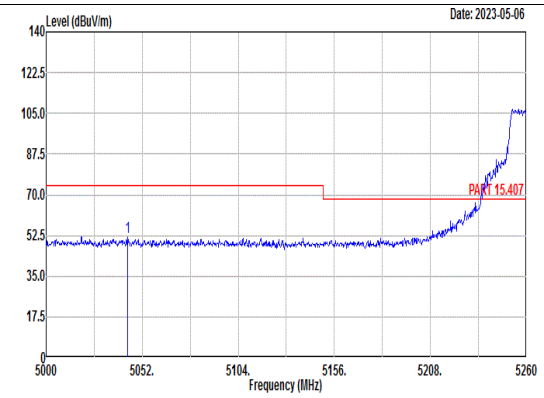
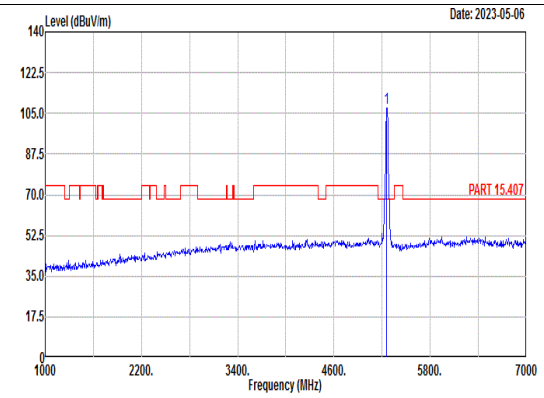
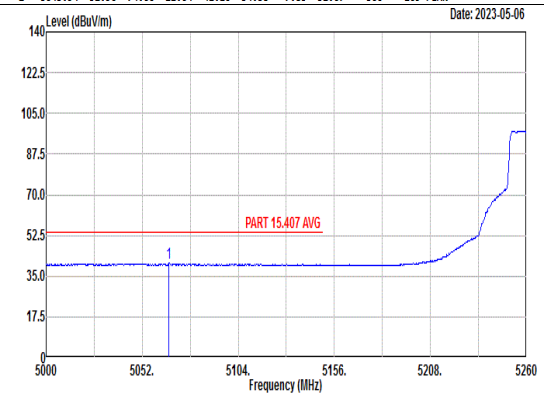
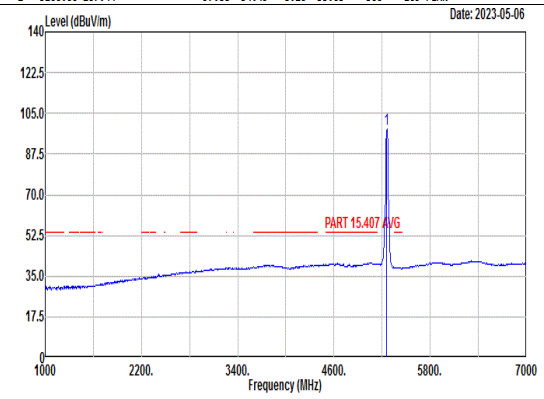
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5071.04 52.45 74.00 -21.55 42.73 34.57 7.87 32.72 100 274 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5240.00 103.01 ------ ------ 93.47 34.50 8.04 33.00 100 274 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5051.60 40.45 54.00 -13.55 30.71 34.58 7.85 32.69 100 274 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5240.00 94.28 ------ ------ 84.74 34.51 8.01 32.98 100 274 AVERAGE

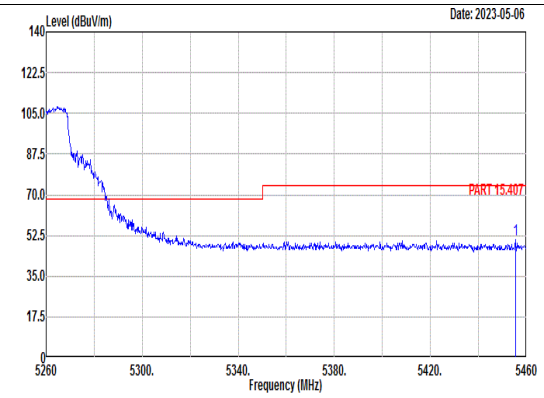
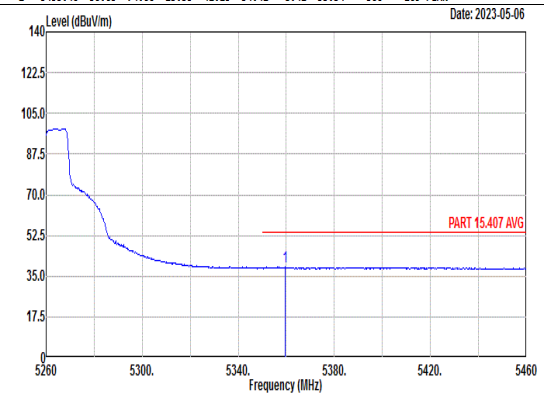
Mode	12	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5394.88 50.00 74.00 -24.00 40.35 34.44 8.45 33.24 100 274 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5380.58 38.92 54.00 -15.08 29.28 34.45 8.41 33.22 100 274 AVERAGE	Blank

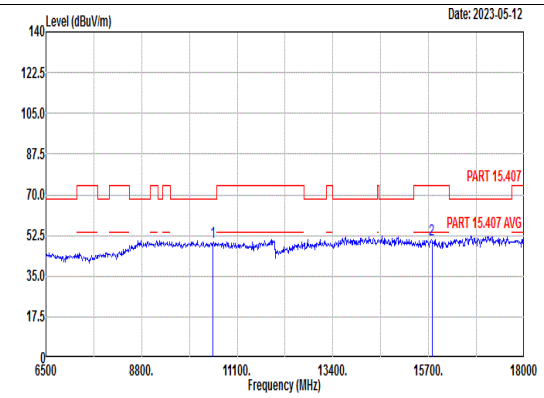
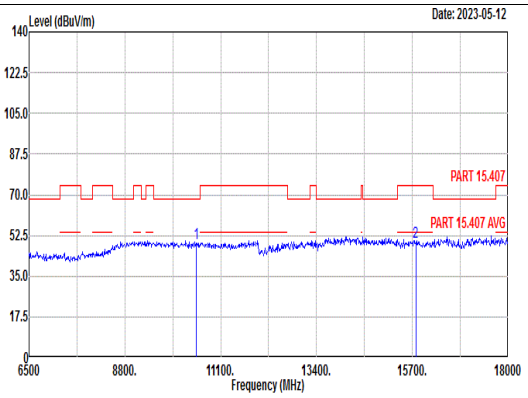
Mode	12	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 49.29 68.30 -19.01 52.01 39.79 10.82 53.33 --- --- Peak 2 15720.00 49.79 74.00 -24.21 49.80 41.92 12.71 54.64 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 12 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 49.26 68.30 -19.04 51.98 39.79 10.82 53.33 --- --- Peak 2 15720.00 50.45 74.00 -23.55 50.46 41.92 12.71 54.64 --- --- Peak

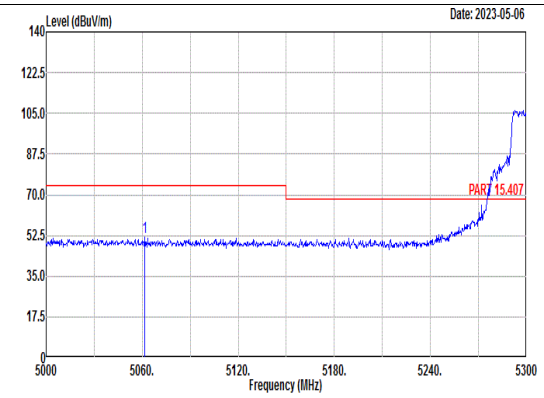
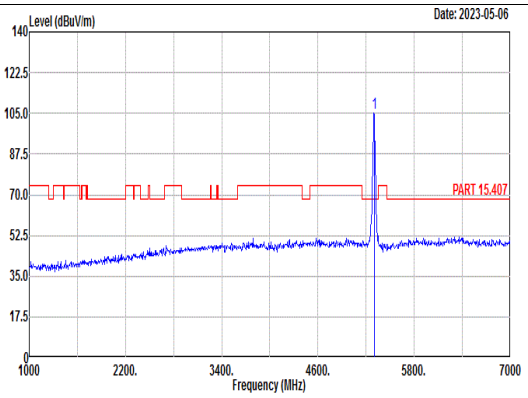
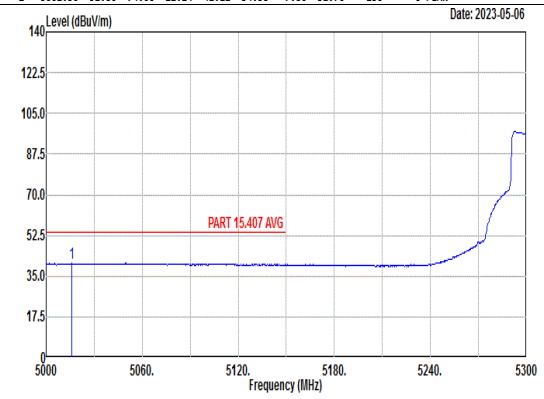
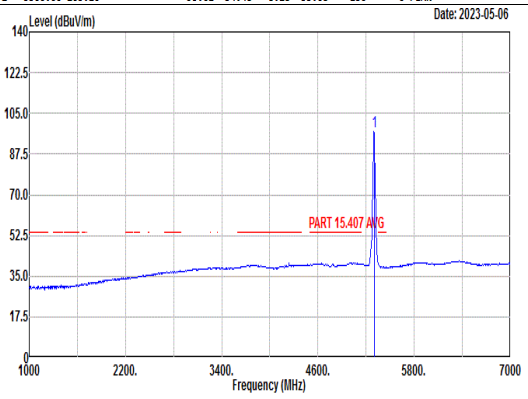
Mode	13	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH52_5260MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5005.98 51.79 74.00 -22.21 41.97 34.60 7.83 32.61 200 287 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5260.00 103.31 ------ ------ 93.75 34.50 8.07 33.01 200 287 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5051.48 40.41 54.00 -13.59 30.67 34.58 7.85 32.69 200 287 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5260.00 94.77 ------ ------ 85.21 34.50 8.07 33.01 200 287 AVERAGE

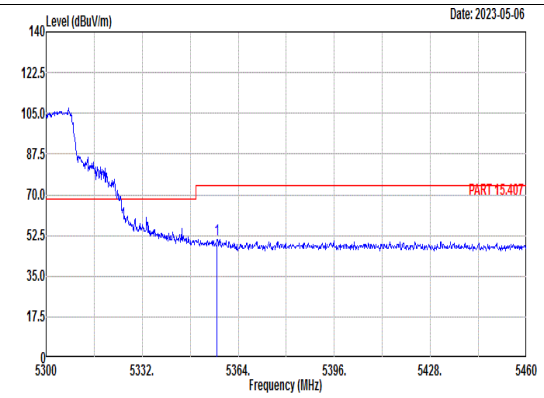
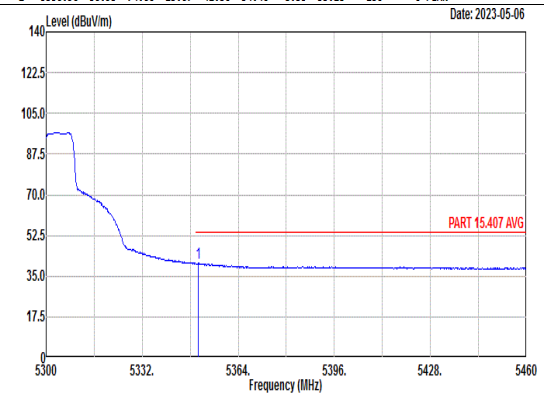
Mode	13	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH52_5260MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5420.40 50.09 74.00 -23.91 40.48 34.43 8.46 33.28 200 287	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5365.40 38.75 54.00 -15.25 29.12 34.45 8.37 33.19 200 287 AVERAGE	Blank

Mode	13	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH52_5260MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5043.94 51.96 74.00 -22.04 42.20 34.58 7.85 32.67 300 269 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5260.00 107.44 ------ ------ 97.88 34.49 8.10 33.03 300 269 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5066.56 40.43 54.00 -13.57 30.71 34.57 7.86 32.71 300 269 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5260.00 98.12 ------ ------ 88.56 34.49 8.10 33.03 300 269 AVERAGE

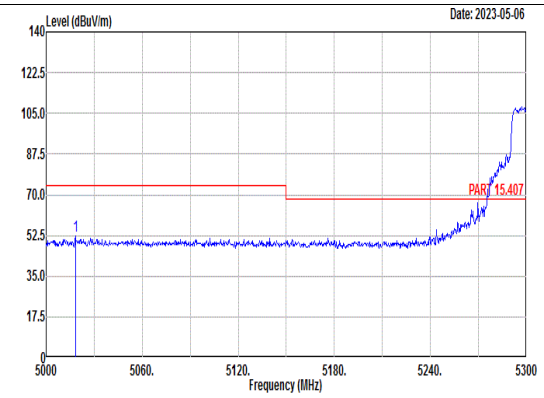
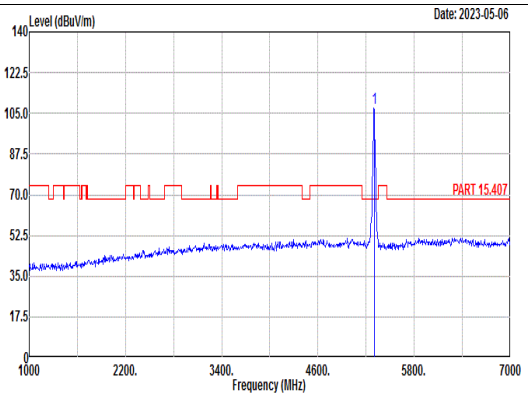
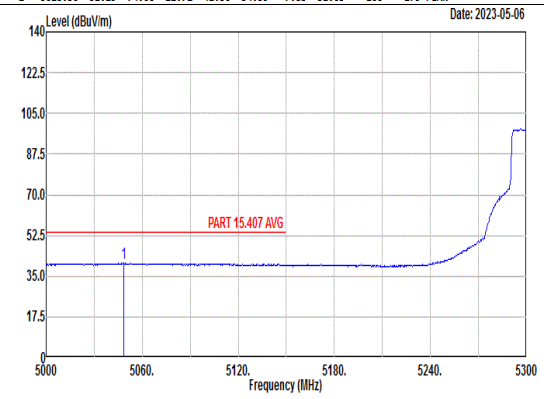
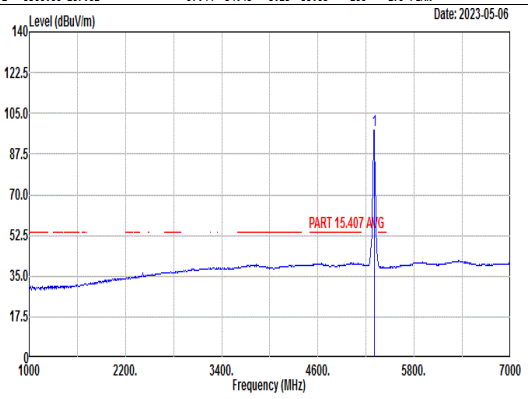
Mode	13	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH52_5260MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5455.40 50.65 74.00 -23.35 41.15 34.42 8.42 33.34 300 269 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5359.60 38.85 54.00 -15.15 29.23 34.46 8.35 33.19 300 269 AVERAGE	Blank

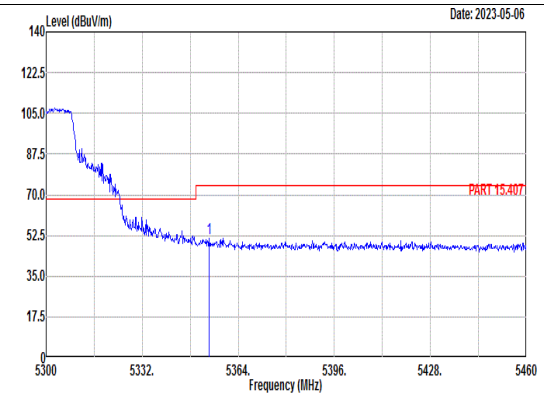
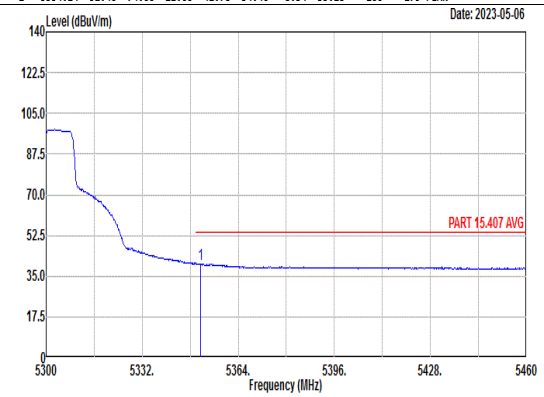
Mode	13	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH52_5260MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 49.62 68.30 -18.68 52.36 39.79 10.85 53.38 --- --- Peak 2 15780.00 50.84 74.00 -23.16 50.87 41.98 12.71 54.72 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 13 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 49.02 68.30 -19.28 51.76 39.79 10.85 53.38 --- --- Peak 2 15780.00 49.75 74.00 -24.25 49.78 41.98 12.71 54.72 --- --- Peak

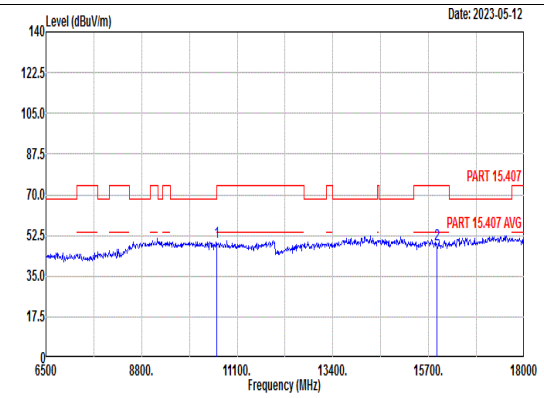
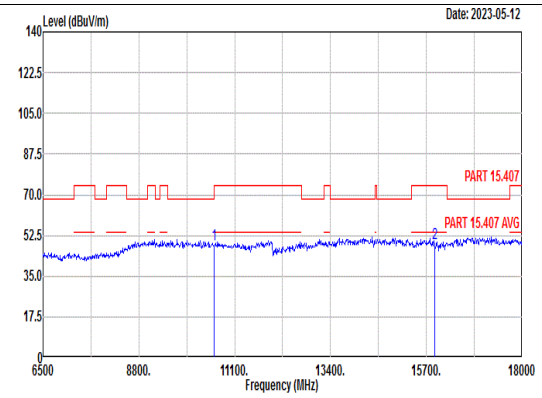
Mode	14	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH60_5300MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5061.50 51.86 74.00 -22.14 42.12 34.58 7.86 32.70 250 0 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5300.00 105.20 ------ ------ 95.62 34.48 8.18 33.08 250 0 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5016.20 40.59 54.00 -13.41 30.80 34.59 7.83 32.63 250 0 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5300.00 97.04 ------ ------ 87.46 34.48 8.17 33.07 250 0 AVERAGE

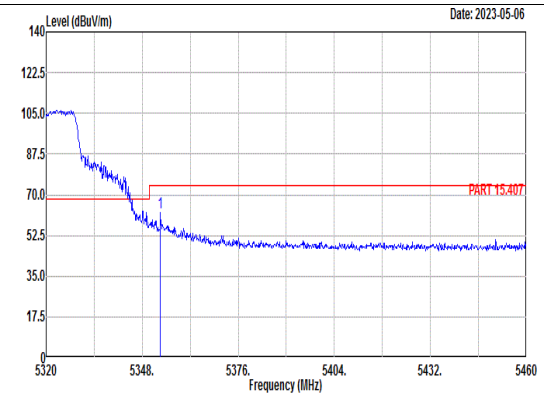
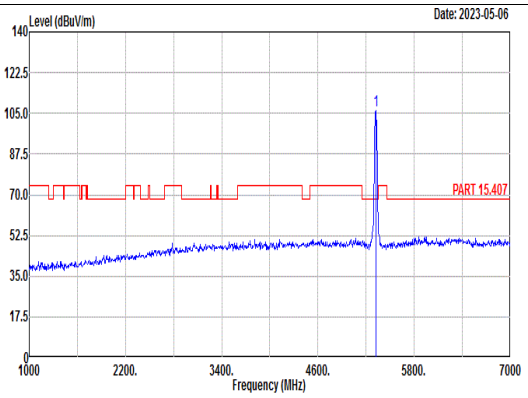
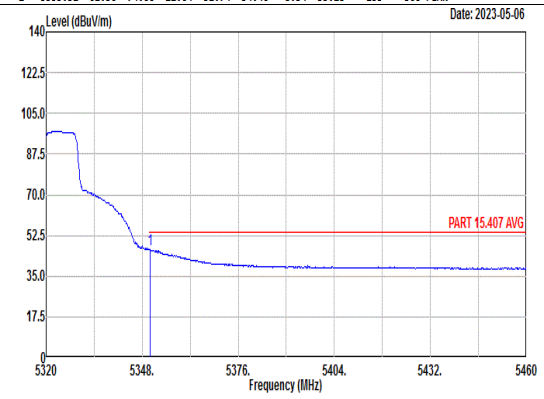
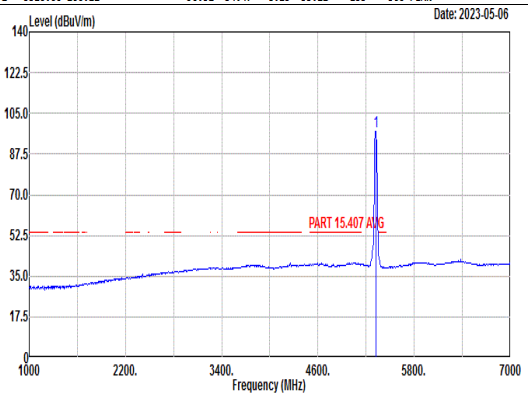
Mode	14	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH60_5300MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5356.96 50.93 74.00 -23.07 41.30 34.46 8.35 33.18 250 0 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.72 40.54 54.00 -13.46 30.92 34.46 8.33 33.17 250 0 AVERAGE	Blank

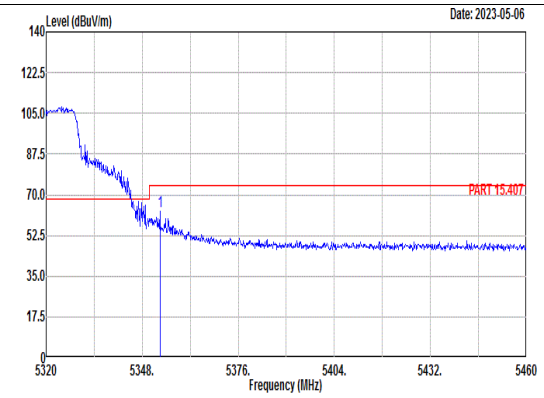
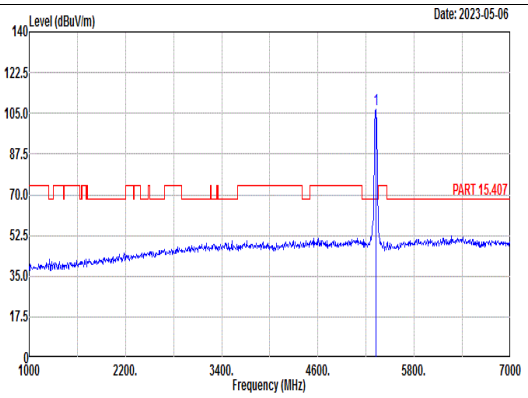
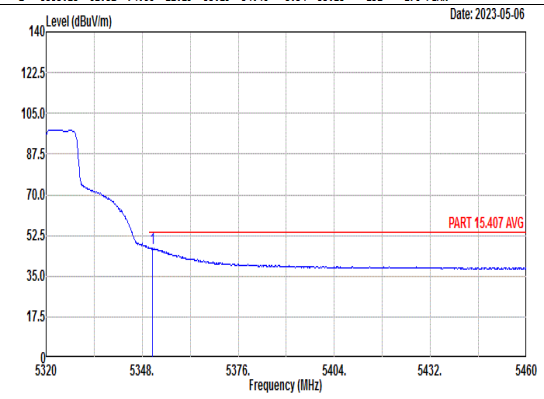
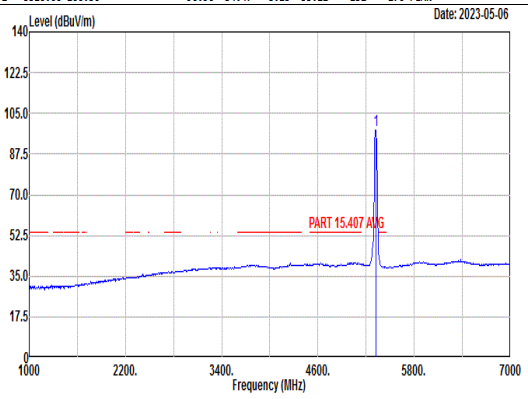
Mode	14
	Band Edge - L
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH60_5300MHz
ANT	1

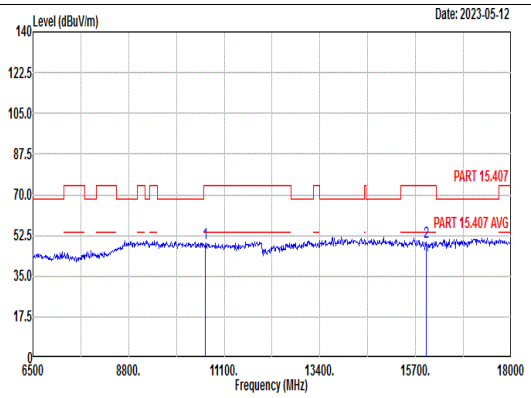
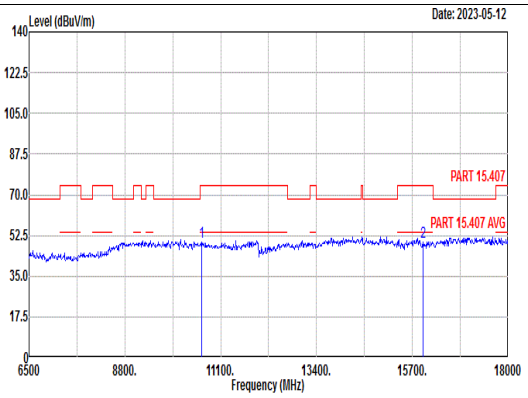
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5018.30 52.29 74.00 -21.71 42.50 34.59 7.83 32.63 200 279 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5300.00 107.02 ------ ------ 97.44 34.48 8.18 33.08 200 279 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5048.30 40.56 54.00 -13.44 30.81 34.58 7.85 32.68 200 279 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5300.00 97.99 ------ ------ 88.41 34.48 8.18 33.08 200 279 AVERAGE

Mode	14	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH60_5300MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5354.24 51.40 74.00 -22.60 41.78 34.46 8.34 33.18 200 279 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5351.36 40.39 54.00 -13.61 30.77 34.46 8.33 33.17 200 279 AVERAGE	Blank

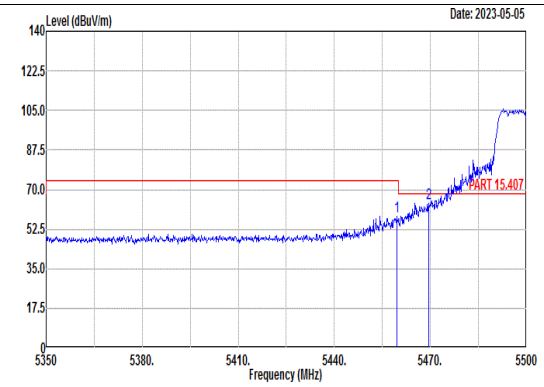
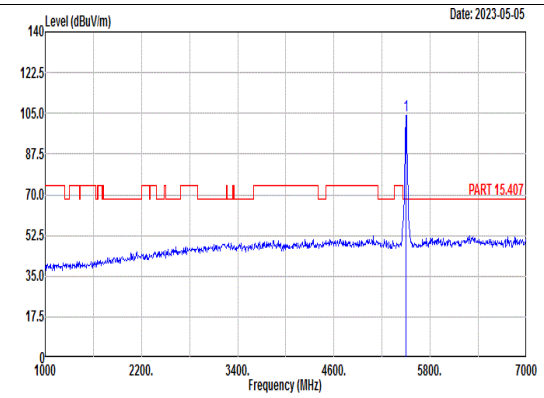
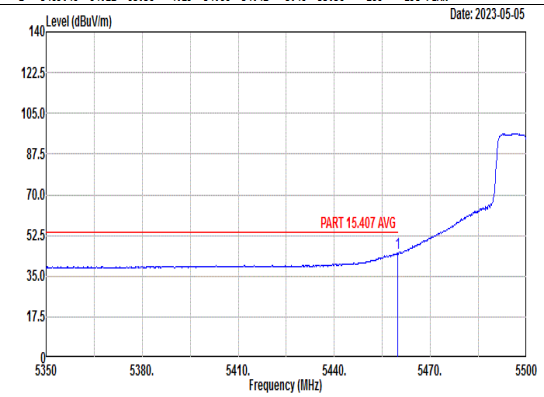
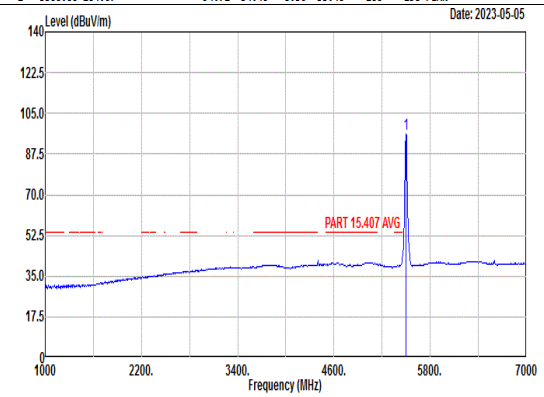
Mode	14	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH60_5300MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 49.44 74.00 -24.56 52.28 39.74 10.91 53.49 --- --- Peak 2 15900.00 48.66 74.00 -25.34 48.73 42.10 12.71 54.88 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 14 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 48.66 74.00 -25.34 51.50 39.74 10.91 53.49 --- --- Peak 2 15900.00 49.27 74.00 -24.73 49.34 42.10 12.71 54.88 --- --- Peak

Mode	15	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH64_5320MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 15 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5353.32 62.36 74.00 -11.64 52.74 34.46 8.34 33.18 253 360 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 15 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5320.00 106.11 ------ ------ 96.51 34.47 8.25 33.12 253 360 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 15 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.24 46.37 54.00 -7.63 36.75 34.46 8.33 33.17 253 360 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 15 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m ------ ------ dBuV dB/m dB dB cm deg 1 5320.00 97.04 ------ ------ 87.44 34.47 8.26 33.13 253 360 AVERAGE

Mode	15	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH64_5320MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 15 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5353.18 62.81 74.00 -11.19 53.19 34.46 8.34 33.18 231 270 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 15 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5320.00 106.56 ------ ------ 96.96 34.47 8.25 33.12 231 270 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 15 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.94 47.22 54.00 -6.78 37.60 34.46 8.33 33.17 231 270 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 15 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5320.00 97.87 ------ ------ 88.28 34.47 8.23 33.11 231 270 AVERAGE

Mode	15	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH64_5320MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL Mode : 15 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 49.04 74.00 -24.96 51.92 39.72 10.94 53.54 --- --- Peak 2 15960.00 49.57 74.00 -24.43 49.67 42.16 12.70 54.96 --- --- Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 VERTICAL Mode : 15 Setting : MCS0 Power setting 19 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 49.60 74.00 -24.40 52.48 39.72 10.94 53.54 --- --- Peak 2 15960.00 49.54 74.00 -24.46 49.64 42.16 12.70 54.96 --- --- Peak

Mode	16
	Band Edge
	U-NII-2C_5.47-5.725_802.11ac VHT20_CH100_5500MHz
ANT	1

Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 16 Setting : MCS0 Power setting 18 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5459.50 58.29 74.00 -15.71 48.81 34.42 8.41 33.35 100 298 PEAK 2 5469.40 64.11 68.30 -4.19 54.66 34.41 8.40 33.36 100 298 PEAK	 Site : 03CH03-SZ Condition: PART 15.407 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 16 Setting : MCS0 Power setting 18 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5500.00 104.07 ------ ------ 94.71 34.40 8.36 33.40 100 298 PEAK
Avg	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 16 Setting : MCS0 Power setting 18 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5459.80 44.81 54.00 -9.19 35.33 34.42 8.41 33.35 100 298 AVERAGE	 Site : 03CH03-SZ Condition: PART 15.407 AVG 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 16 Setting : MCS0 Power setting 18 Plane : Z with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5500.00 96.21 ------ ------ 86.85 34.40 8.36 33.40 100 298 AVERAGE