FCC RF Test Report

APPLICANT	:	Hangzhou Tuya Information Technology Co., Ltd
EQUIPMENT	:	Wi-Fi and Bluetooth Module
MODEL NAME	:	WR11-U
FCC ID	:	2ANDL-WR11U
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Apr. 29, 2025 ~ May 17, 2025

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

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

Fly Liang

Approved by: Fly Liang

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)
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People's Republic of China

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APPENDIX A. CONDUCTED TEST RESULTS

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR541608C	Rev. 01	Initial issue of report	Jul. 04, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) &15.209(a)	Pass	Under limit 2.1 dB at 17475.00 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Pass	Under limit 12.47 dB at 0.15 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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

1 General Description

1.1 Applicant

Hangzhou Tuya Information Technology Co., Ltd
Room 301,Building 1,Huace Center,Xihu District,Hangzhou City,Zhejiang Province, China

1.2 Manufacturer

Hangzhou Tuya Information Technology Co., Ltd
Room 301,Building 1,Huace Center,Xihu District,Hangzhou City,Zhejiang Province, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wi-Fi and Bluetooth Module
Model Name	WR11-U
FCC ID	2ANDL-WR11U
SN Code	Conducted: 20000445300084 Conduction: 2000044530003B Radiation: 2000044530003B
HW Version	V1.0.2
SW Version	V3.5.0
EUT Stage	Identical Prototype

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

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 17.60 dBm / 0.0575 W 802.11n HT20 : 17.58 dBm / 0.0573 W 802.11n HT40 : 17.50 dBm / 0.0562 W **<5260 MHz ~ 5320 MHz>** 802.11a : 17.45 dBm / 0.0556 W 802.11n HT20 : 17.45 dBm / 0.0556 W 802.11n HT40 : 17.05 dBm / 0.0507 W **<5500 MHz ~ 5720 MHz >** 802.11a : 17.25 dBm / 0.0531 W 802.11n HT20 : 17.20 dBm / 0.0525 W 802.11n HT40 : 17.15 dBm / 0.0519 W **<5745 MHz ~ 5825 MHz>** 802.11a : 17.43 dBm / 0.0553 W 802.11n HT20 : 17.47 dBm / 0.0558 W 802.11n HT40 : 17.28 dBm / 0.0535 W
99% Occupied Bandwidth	**<5180 MHz ~ 5240 MHz>** 802.11a : 17.05 MHz 802.11n HT20 : 18.10 MHz 802.11n HT40 : 36.04 MHz **<5260 MHz ~ 5320 MHz>** 802.11a : 17.50 MHz 802.11n HT20 : 18.08 MHz 802.11n HT40 : 36.01 MHz **<5500 MHz ~ 5720 MHz>** 802.11a : 16.98 MHz 802.11n HT20 : 18.09 MHz 802.11n HT40 : 35.99 MHz **<5745 MHz ~ 5825 MHz>** 802.11a : 16.93 MHz 802.11n HT20 : 18.07 MHz 802.11n HT40 : 35.97 MHz
Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** PCB Antenna with gain -0.34 dBi **<5260 MHz ~ 5320 MHz>** PCB Antenna with gain 0.12 dBi **<5500 MHz ~ 5720 MHz>** PCB Antenna with gain 1.53 dBi **<5745 MHz ~ 5825 MHz>** PCB Antenna with gain 1.07 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

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

1.6 Testing Location

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 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ CO02-SZ 03CH04-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-SZ	AUDIX	E3	6.120613b

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: All test items were verified and recorded according to the standards and without any deviation during the test.

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 (X plane) were recorded in this report.

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5180-5240 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5500-5720MHz U-NII-2C	100	5500	116	5580
	102*	5510	132	5660
	104	5520	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
	112	5560	-	-

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	159*	5795
	151*	5755	161	5805
	153	5765	165	5825
	157	5785	-	-

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	126*	5630
	120	5600	128	5640
	124	5620	-	-

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

Note: The above Frequency and Channel in "*" are 40MHz bandwidth.

2.2 Test Mode

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

SISO Mode

Modulation	Data Rate
802.11a	**6 Mbps**
802.11n HT20	**MCS0**
802.11n HT40	**MCS0**

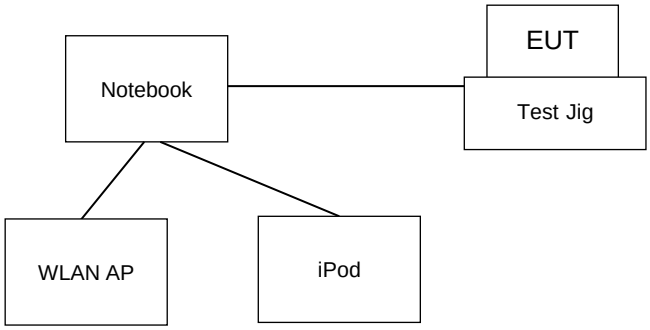
AC Conducted Emission	Mode 1 : WLAN Link(5G) + Charging from Notebook
Remark: For Radiated Test Cases, The tests were performance with Notebook.	

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		40M BW	40M BW	40M BW	40M BW
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159
Straddle		-	-	142	-

2.3 Connection Diagram of Test System

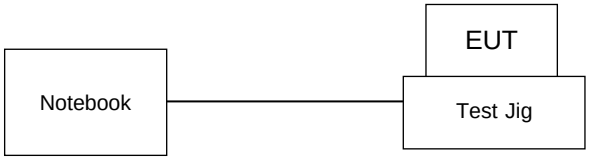
AC Conducted Emission:



This example is connection diagram of EUT test configurations.

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

Radiated Emission:



This example is connection diagram of EUT test configurations.

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

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latiude 3400	N/A	N/A	Unshielded, 1.8 m
3.	iPod	Apple	MC69029/A	N/A	N/A	N/A
4.	Test Jig	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

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

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 2.3 dB and 10dB attenuator.

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

= 2.3 + 10 = 12.3 (dB)

3 Test Result

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

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

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

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

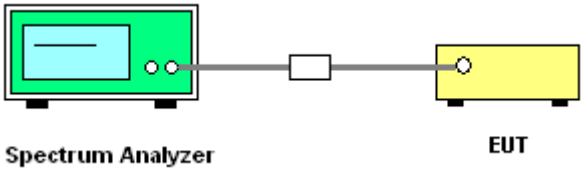
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

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

☒	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW) and 99% OBW
	1. Set RBW = approximately 1% of the emission bandwidth. **2.** Set the VBW > RBW. **3.** Detector = Peak. **4.** Trace mode = max hold **5.** Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%. **6.** For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set to 1%~5% of the OBW and set the Video bandwidth (VBW) ≥ 3 * RBW. **7.** Measure and record the results in the test report.
☒	Section C) Bandwidth Measurement 2. Minimum Emission Bandwidth for the band 5.725 - 5.85 GHz
	1. Set RBW = 100kHz. **2.** Set the VBW ≥ 3 x RBW. **3.** Detector = Peak. **4.** Trace mode = max hold **5.** Measure the maximum width of the emission that is 6 dB down from the peak of the emission. **6.** Measure and record the results in the test report.

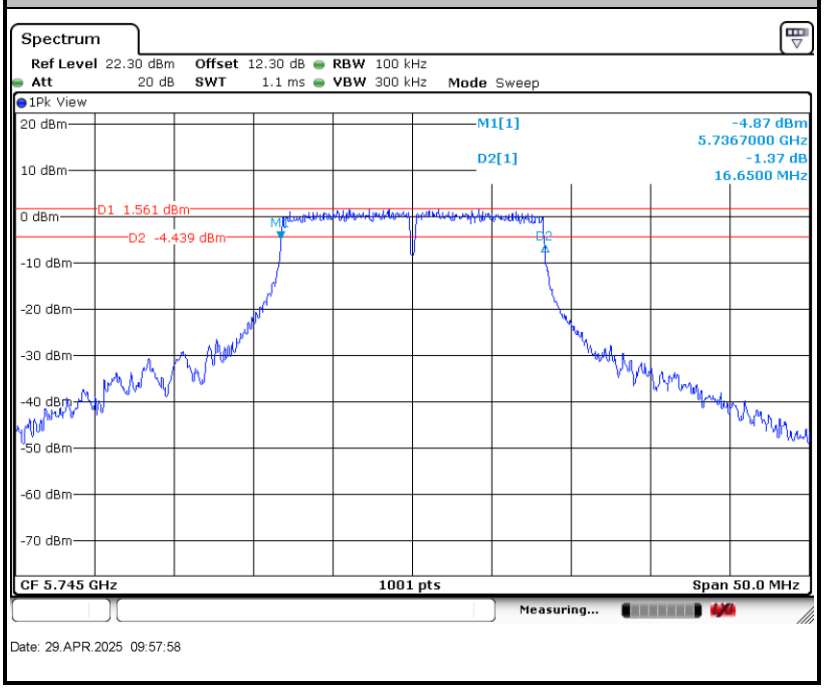
3.1.4 Test Setup



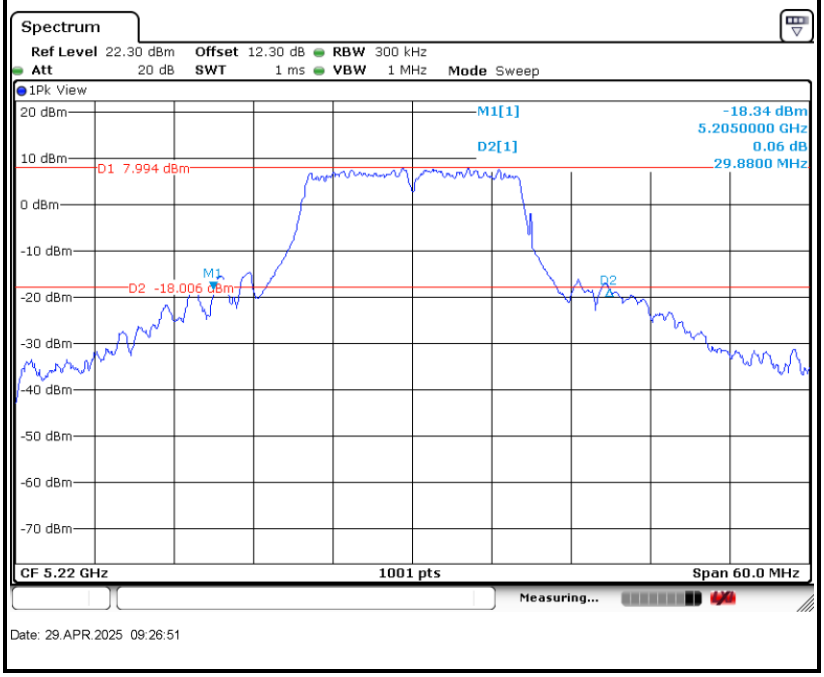
3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

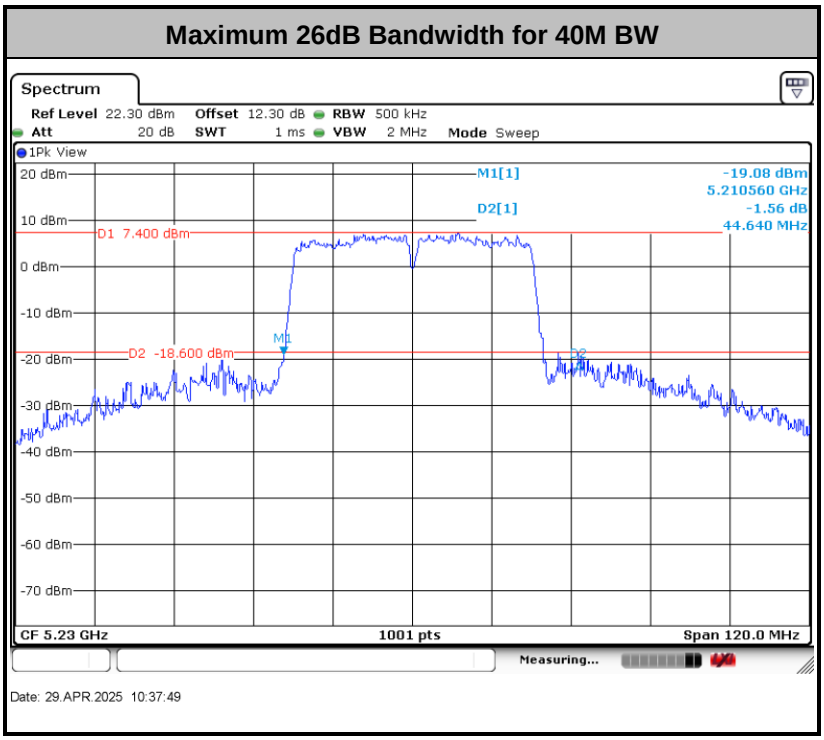
Minimum 6dB Bandwidth



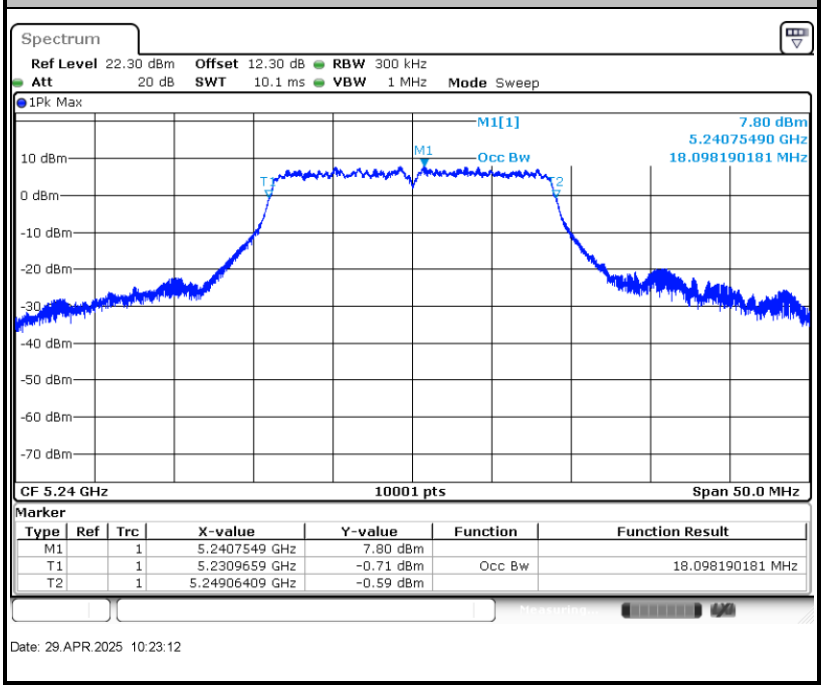
Maximum 26dB Bandwidth for 20M BW



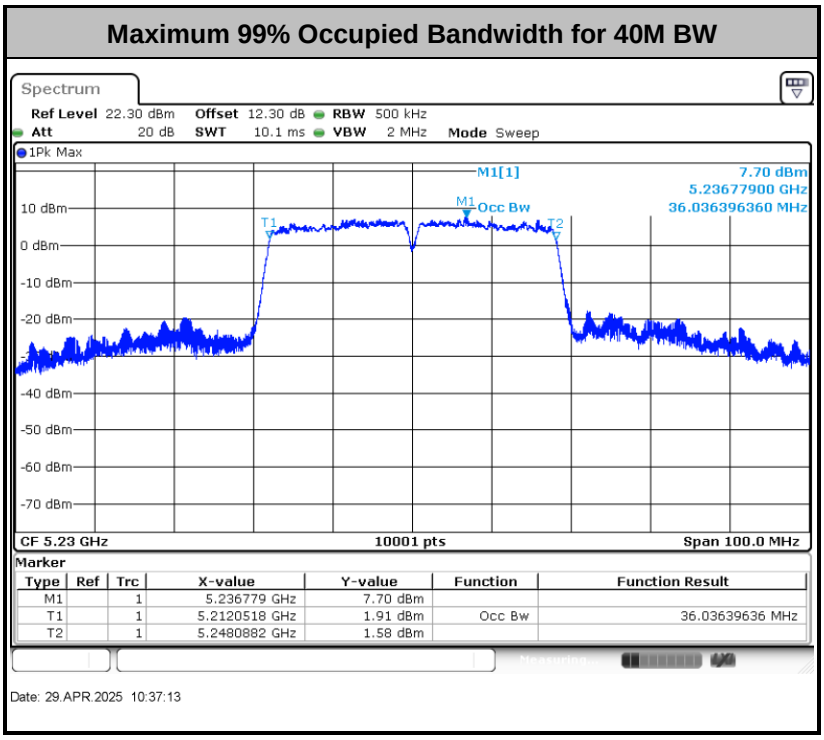
Maximum 26dB Bandwidth for 40M BW



Maximum 99% Occupied Bandwidth for 20M BW



Maximum 99% Occupied Bandwidth for 40M 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 band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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

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

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

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3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

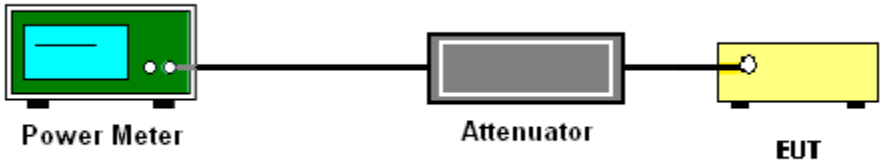
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

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

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

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

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

 # Method SA-2 #

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

For devices operating in the band UNII-3

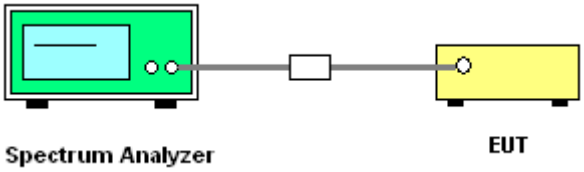
 # Method SA-2 #

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500KHz (or 300 kHz if the SA can’t set RBW=500KHz).
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- If the SA can’t set RBW=500KHz, then add 10 log(500kHz/RBW) to the test result.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup

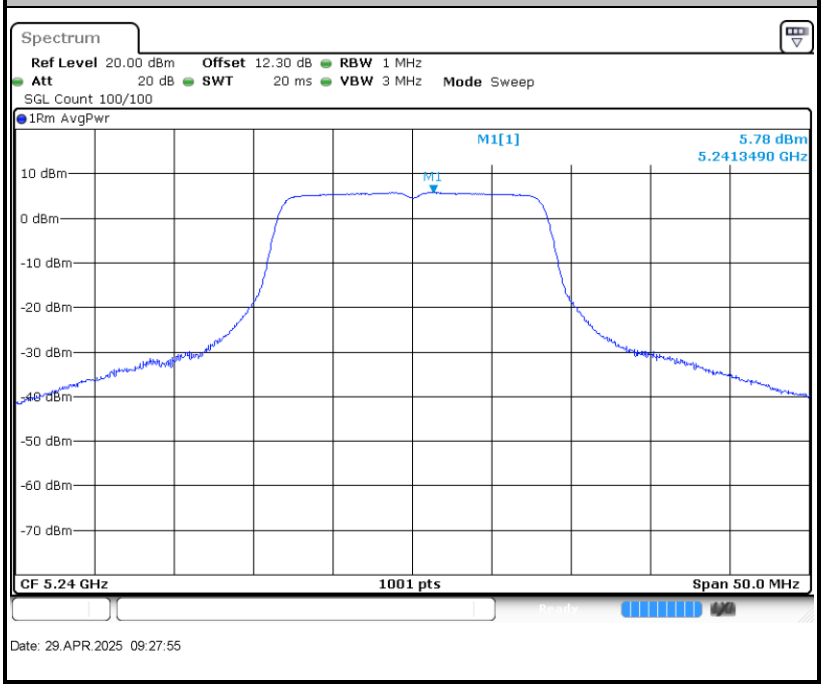


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

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

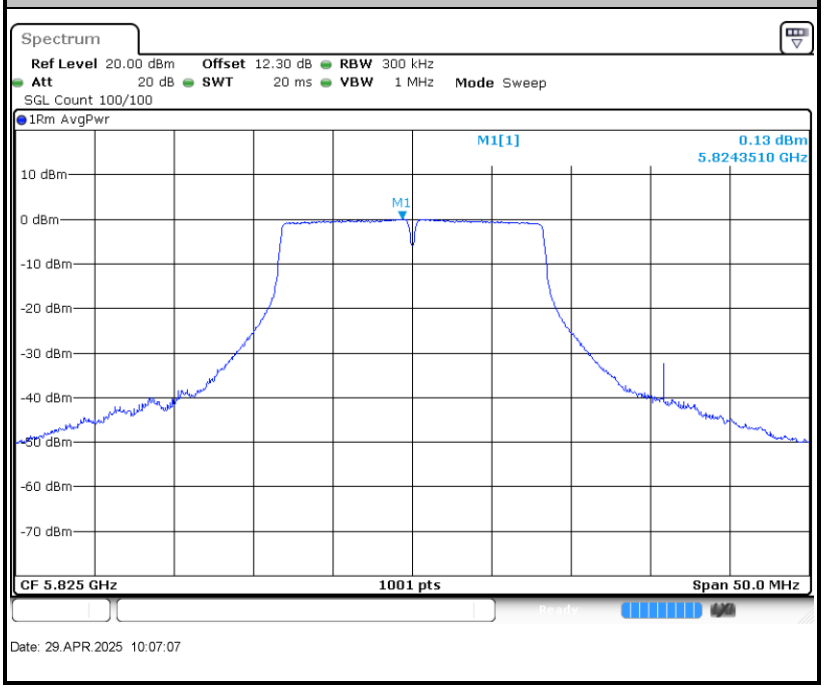
Worst Case Power Density (dBm/MHz)



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

For devices operating in the band UNII-3

Worst Case Power Density (dBm/300kHz)



3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.4.1 Limit of Unwanted Emissions

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

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

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

(2) For transmitters operating in the 5.725-5.85 GHz band:
15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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

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

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

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

where

EIRP is the equivalent isotropically radiated power, in dBm

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

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

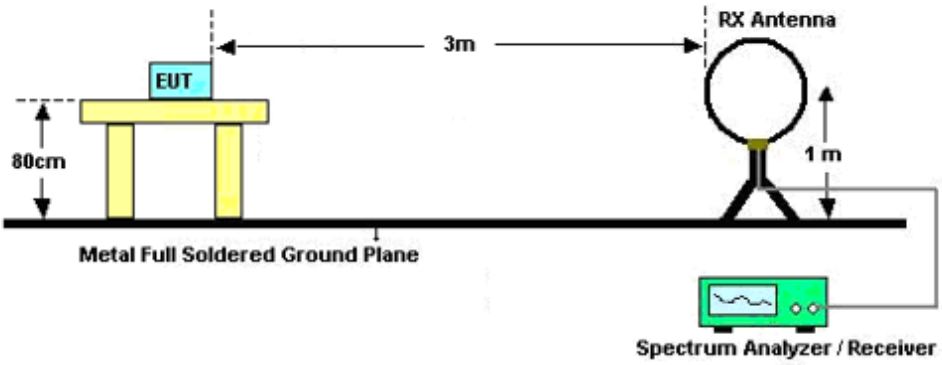
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

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

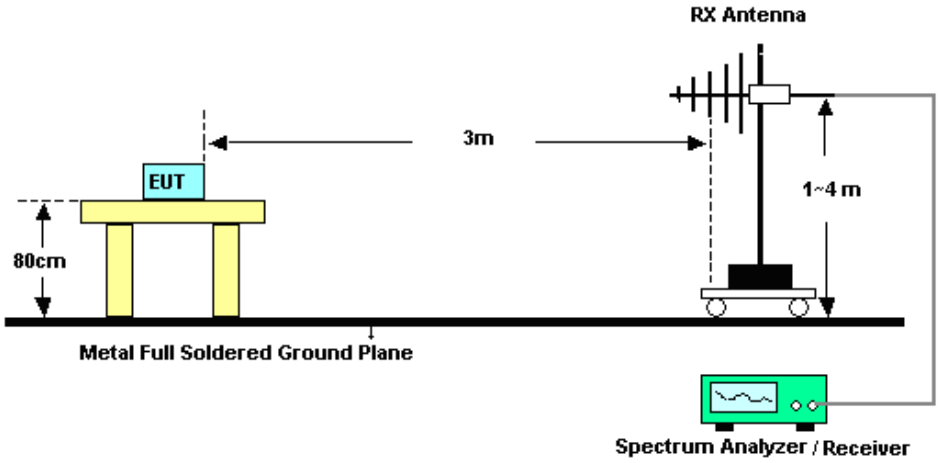
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

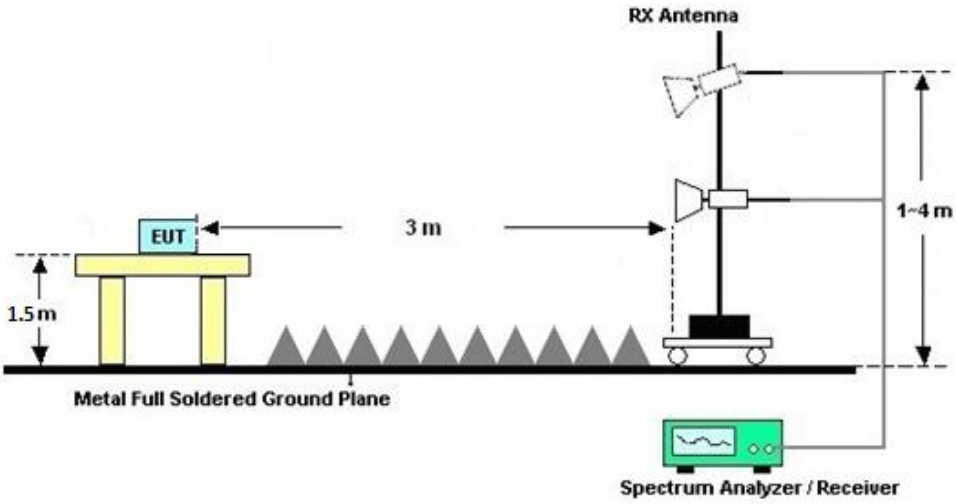
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

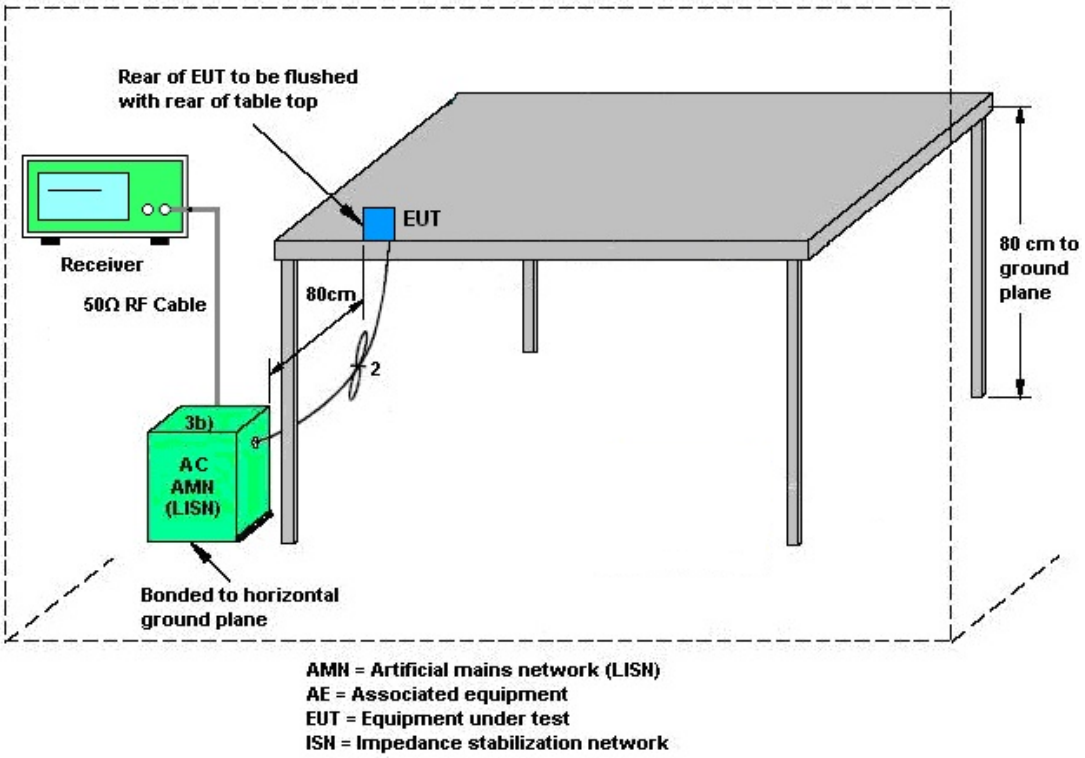
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

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

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 14, 2024	May 03, 2025~ May 17, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	May 03, 2025~ May 17, 2025	Jul. 02, 2025	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	May 03, 2025~ May 17, 2025	Dec. 27, 2025	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 10, 2024	May 03, 2025~ May 17, 2025	May 09, 2025	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09, 2025		May 08, 2026	Radiation (03CH04-SZ)
Double Ridge Guide Antenna	ETS-Lindgren	Burgeon-3117	00240057	1GHz~18GHz	Jul. 13, 2024	May 03, 2025~ May 17, 2025	Jul. 12, 2025	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 04, 2024	May 03, 2025~ May 17, 2025	Jul. 03, 2025	Radiation (03CH04-SZ)
LF Amplifier	EM Electronics	EM330	060773	20MHz-3GHz	Apr. 02, 2025	May 03, 2025~ May 17, 2025	Apr. 01, 2026	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	May 03, 2025~ May 17, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	May 03, 2025~ May 17, 2025	Jul. 02, 2025	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Jul. 03, 2024	May 03, 2025~ May 17, 2025	Jul. 02, 2025	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 14, 2024	May 03, 2025~ May 17, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 03, 2025~ May 17, 2025	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 03, 2025~ May 17, 2025	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	May 06, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	May 06, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec. 25, 2024	May 06, 2025	Dec. 24, 2025	Conduction (CO02-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Apr. 29, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Apr. 29, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 14,2024	Apr. 29, 2025	Oct. 13, 2025	Conducted (TH01-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 Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB

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

Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sam Zheng	Temperature:	21~25	°C
Test Date:	2025/4/29	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB EBW and 99% OBW

Band I						
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
11a	6Mbps	1	36	5180	17.02	29.58
11a	6Mbps	1	44	5220	17.07	29.88
11a	6Mbps	1	48	5240	17.10	25.68
HT20	MCS0	1	36	5180	18.06	23.16
HT20	MCS0	1	44	5220	18.08	23.40
HT20	MCS0	1	48	5240	18.10	23.58
HT40	MCS0	1	38	5190	36.01	39.48
HT40	MCS0	1	46	5230	36.04	44.64

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TEST RESULTS DATA
Average Power Table

FCC Band I										
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Power Setting
11a	6Mbps	1	36	5180	0.00	15.20	24.00	-0.34	Pass	91
11a	6Mbps	1	44	5220	0.00	16.22	24.00	-0.34	Pass	94
11a	6Mbps	1	48	5240	0.00	17.60	24.00	-0.34	Pass	100
HT20	MCS0	1	36	5180	0.00	14.11	24.00	-0.34	Pass	88
HT20	MCS0	1	44	5220	0.00	16.90	24.00	-0.34	Pass	98
HT20	MCS0	1	48	5240	0.00	17.58	24.00	-0.34	Pass	100
HT40	MCS0	1	38	5190	0.00	12.00	24.00	-0.34	Pass	81
HT40	MCS0	1	46	5230	0.00	17.50	24.00	-0.34	Pass	101

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TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.00	5.24	11.00	-0.34		Pass
11a	6Mbps	1	44	5220	0.00	5.62	11.00	-0.34		Pass
11a	6Mbps	1	48	5240	0.00	5.78	11.00	-0.34		Pass
HT20	MCS0	1	36	5180	0.00	4.36	11.00	-0.34		Pass
HT20	MCS0	1	44	5220	0.00	4.98	11.00	-0.34		Pass
HT20	MCS0	1	48	5240	0.00	5.18	11.00	-0.34		Pass
HT40	MCS0	1	38	5190	0.00	1.80	11.00	-0.34		Pass
HT40	MCS0	1	46	5230	0.00	2.58	11.00	-0.34		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II				
Mod.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	FCC 26dB Bandwidth Power Limit (dBm)
11a	5260	16.98	25.74	23.98
11a	5300	17.01	27.54	23.98
11a	5320	17.05	27.66	23.98
HT20	5260	18.07	23.52	23.98
HT20	5300	18.08	23.52	23.98
HT20	5320	18.08	23.40	23.98
HT40	5270	35.98	39.60	23.98
HT40	5310	36.01	41.88	23.98

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TEST RESULTS DATA
Average Power Table

FCC Band II											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	Power Setting
11a	6M bps	1	52	5260	0.00	17.32	23.98	0.12	26.99	Pass	92
11a	6M bps	1	60	5300	0.00	17.45	23.98	0.12	26.99	Pass	92
11a	6M bps	1	64	5320	0.00	16.43	23.98	0.12	26.99	Pass	89
HT20	MCS 0	1	52	5260	0.00	17.30	23.98	0.12	26.99	Pass	91
HT20	MCS 0	1	60	5300	0.00	17.45	23.98	0.12	26.99	Pass	91
HT20	MCS 0	1	64	5320	0.00	15.70	23.98	0.12	26.99	Pass	85
HT40	MCS 0	1	54	5270	0.00	17.05	23.98	0.12	26.99	Pass	92
HT40	MCS 0	1	62	5310	0.00	12.70	23.98	0.12	26.99	Pass	74

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TEST RESULTS DATA
Power Spectral Density

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	52	5260	0.00	5.57	11.00	0.12		Pass
11a	6M bps	1	60	5300	0.00	5.68	11.00	0.12		Pass
11a	6M bps	1	64	5320	0.00	5.15	11.00	0.12		Pass
HT20	MCS 0	1	52	5260	0.00	4.95	11.00	0.12		Pass
HT20	MCS 0	1	60	5300	0.00	4.96	11.00	0.12		Pass
HT20	MCS 0	1	64	5320	0.00	4.64	11.00	0.12		Pass
HT40	MCS 0	1	54	5270	0.00	1.83	11.00	0.12		Pass
HT40	MCS 0	1	62	5310	0.00	1.69	11.00	0.12		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III							
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	FCC 26dB Bandwidth Power Limit (dBm)
11a	6M bps	1	100	5500	16.98	25.68	23.98
11a	6M bps	1	116	5580	16.92	22.08	23.98
11a	6M bps	1	140	5700	16.95	25.50	23.98
11a	6Mbps	1	144	5720	16.95	25.38	23.98
HT20	MCS 0	1	100	5500	18.09	23.46	23.98
HT20	MCS 0	1	116	5580	18.06	23.34	23.98
HT20	MCS 0	1	140	5700	18.08	23.52	23.98
HT20	MCS0	1	144	5720	18.07	23.34	23.98
HT40	MCS 0	1	102	5510	35.99	39.48	23.98
HT40	MCS 0	1	110	5550	35.95	39.48	23.98
HT40	MCS 0	1	134	5670	35.99	39.48	23.98
HT40	MCS0	1	142	5710	35.97	39.36	23.98

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TEST RESULTS DATA
Average Power Table

FCC Band III											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	Power Setting
11a	6M bps	1	100	5500	0.00	16.52	23.98	1.53	26.99	Pass	82
11a	6M bps	1	116	5580	0.00	17.15	23.98	1.53	26.99	Pass	86
11a	6M bps	1	140	5700	0.00	14.72	23.98	1.53	26.99	Pass	75
11a	6M bps	1	144	5720	0.00	17.25	23.98	1.53	26.99	Pass	86
HT20	MCS 0	1	100	5500	0.00	16.31	23.98	1.53	26.99	Pass	81
HT20	MCS 0	1	116	5580	0.00	17.12	23.98	1.53	26.99	Pass	86
HT20	MCS 0	1	140	5700	0.00	14.44	23.98	1.53	26.99	Pass	74
HT20	MCS 0	1	144	5720	0.00	17.20	23.98	1.53	26.99	Pass	86
HT40	MCS 0	1	102	5510	0.00	14.37	23.98	1.53	26.99	Pass	75
HT40	MCS 0	1	110	5550	0.00	17.15	23.98	1.53	26.99	Pass	87
HT40	MCS 0	1	134	5670	0.00	15.12	23.98	1.53	26.99	Pass	80
HT40	MCS 0	1	142	5710	0.00	17.06	23.98	1.53	26.99	Pass	87

TEST RESULTS DATA
Power Spectral Density

Band III									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass/Fail
11a	6M bps	1	100	5500	0.00	5.18	11.00	1.53	Pass
11a	6M bps	1	116	5580	0.00	4.63	11.00	1.53	Pass
11a	6M bps	1	140	5700	0.00	5.36	11.00	1.53	Pass
11a	6Mbps	1	144	5720	0.00	5.35	11.00	1.53	Pass
HT20	MCS 0	1	100	5500	0.00	4.63	11.00	1.53	Pass
HT20	MCS 0	1	116	5580	0.00	4.31	11.00	1.53	Pass
HT20	MCS 0	1	140	5700	0.00	4.92	11.00	1.53	Pass
HT20	MCS0	1	144	5720	0.00	4.96	11.00	1.53	Pass
HT40	MCS 0	1	102	5510	0.00	1.93	11.00	1.53	Pass
HT40	MCS 0	1	110	5550	0.00	1.62	11.00	1.53	Pass
HT40	MCS 0	1	134	5670	0.00	2.30	11.00	1.53	Pass
HT40	MCS0	1	142	5710	0.00	2.12	11.00	1.53	Pass

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

Band IV									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)	6dB Bandwidth min. Limit (MHz)	Pass/Fail
11a	6M bps	1	149	5745	16.92	22.08	16.65	0.5	Pass
11a	6Mbps	1	157	5785	16.91	22.26	16.65	0.5	Pass
11a	6Mbps	1	165	5825	16.93	23.28	16.65	0.5	Pass
HT20	MCS 0	1	149	5745	18.07	23.46	17.90	0.5	Pass
HT20	MCS 0	1	157	5785	18.06	23.40	17.90	0.5	Pass
HT20	MCS 0	1	165	5825	18.07	23.22	17.90	0.5	Pass
HT40	MCS 0	1	151	5755	35.97	39.36	36.54	0.5	Pass
HT40	MCS 0	1	159	5795	35.95	39.48	36.54	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV										
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Setting
11a	6M bps	1	149	5745	0.00	17.26	30.00	1.07	Pass	89
11a	6Mbps	1	157	5785	0.00	17.02	30.00	1.07	Pass	89
11a	6Mbps	1	165	5825	0.00	17.43	30.00	1.07	Pass	88
HT20	MCS 0	1	149	5745	0.00	17.42	30.00	1.07	Pass	89
HT20	MCS 0	1	157	5785	0.00	17.01	30.00	1.07	Pass	89
HT20	MCS 0	1	165	5825	0.00	17.47	30.00	1.07	Pass	88
HT40	MCS 0	1	151	5755	0.00	17.28	30.00	1.07	Pass	92
HT40	MCS 0	1	159	5795	0.00	17.02	30.00	1.07	Pass	92

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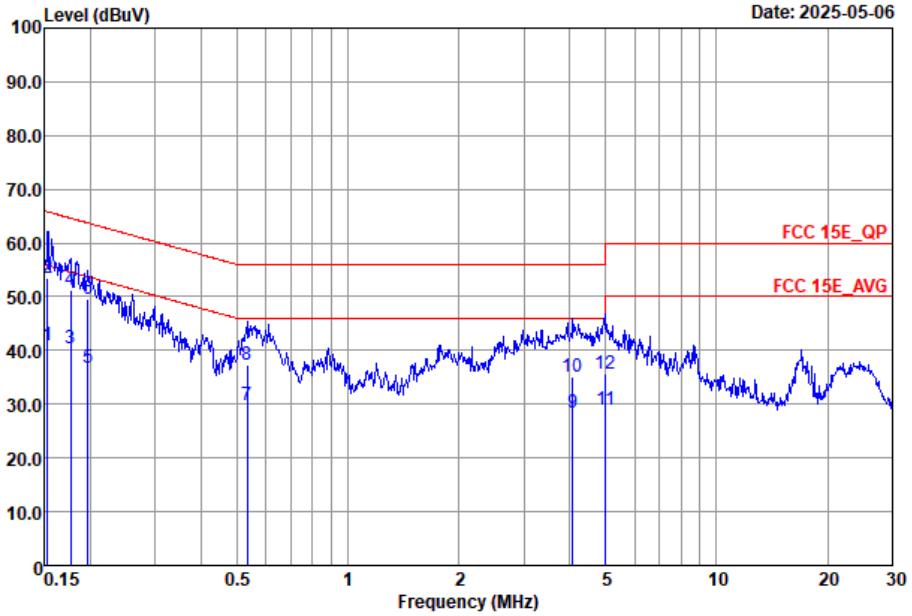
TEST RESULTS DATA
Power Spectral Density

Band IV										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	10log (500kHz /RBW) Factor (dB)	Average Power Density (dBm/500kHz)	Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass/Fail
11a	6M bps	1	149	5745	0.00	2.22	1.90	30.00	1.07	Pass
11a	6Mbps	1	157	5785	0.00	2.22	1.31	30.00	1.07	Pass
11a	6Mbps	1	165	5825	0.00	2.22	2.35	30.00	1.07	Pass
HT20	MCS 0	1	149	5745	0.00	2.22	1.51	30.00	1.07	Pass
HT20	MCS 0	1	157	5785	0.00	2.22	1.27	30.00	1.07	Pass
HT20	MCS 0	1	165	5825	0.00	2.22	1.18	30.00	1.07	Pass
HT40	MCS 0	1	151	5755	0.00	2.22	-0.69	30.00	1.07	Pass
HT40	MCS 0	1	159	5795	0.00	2.22	-1.16	30.00	1.07	Pass

Appendix B. AC Conducted Emission Test Results

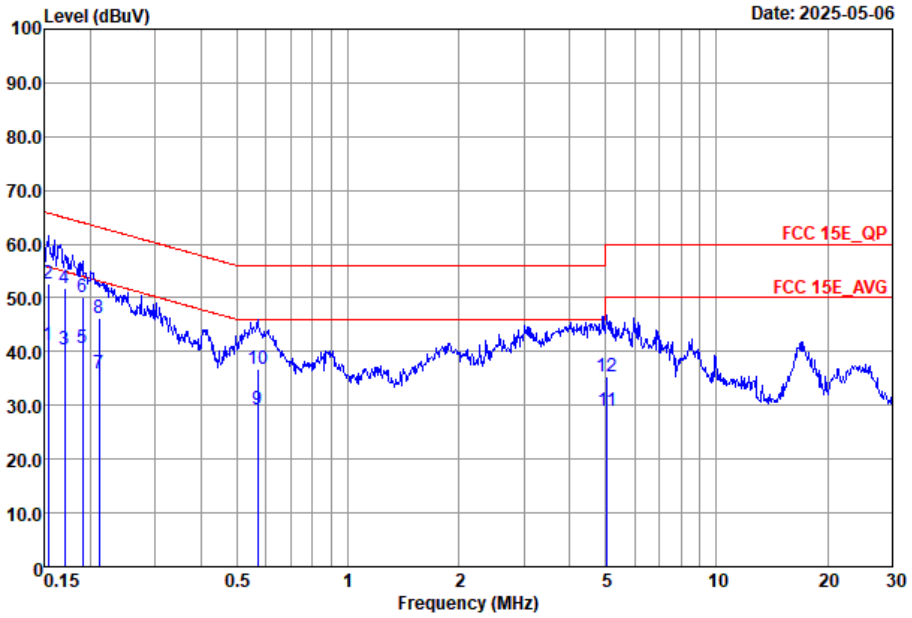
Test Engineer :	Nathon & Xuruibin	**Temperature :**	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO02-SZ
Condition : FCC 15E_QP LISN_2025-L LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.15	40.95	-14.87	55.82	21.10	9.66	10.19	Average
2	*	0.15	53.35	-12.47	65.82	33.50	9.66	10.19	QP
3		0.18	40.47	-14.17	54.64	20.60	9.69	10.18	Average
4		0.18	51.27	-13.37	64.64	31.40	9.69	10.18	QP
5		0.20	36.69	-17.02	53.71	16.80	9.71	10.18	Average
6		0.20	49.69	-14.02	63.71	29.80	9.71	10.18	QP
7		0.53	29.91	-16.09	46.00	10.00	9.67	10.24	Average
8		0.53	37.21	-18.79	56.00	17.30	9.67	10.24	QP
9		4.07	28.53	-17.47	46.00	8.60	9.66	10.27	Average
10		4.07	35.03	-20.97	56.00	15.10	9.66	10.27	QP
11		5.00	29.02	-20.98	50.00	9.10	9.65	10.27	Average
12		5.00	35.62	-24.38	60.00	15.70	9.65	10.27	QP

Test Engineer :	Nathon & Xuruibin	**Temperature :**	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO02-SZ
Condition : FCC 15E_QP LISN_2025-N NEUTRAL

		Freq MHz	Level dBuV	Over Limit dB	Limit Line dBuV	Read Level dBuV	LISN Factor dB	Cable Loss dB	Remark
1		0.15	41.18	-14.60	55.78	21.40	9.59	10.19	Average
2	*	0.15	52.78	-13.00	65.78	33.00	9.59	10.19	QP
3		0.17	40.34	-14.60	54.94	20.40	9.76	10.18	Average
4		0.17	51.84	-13.10	64.94	31.90	9.76	10.18	QP
5		0.19	40.71	-13.31	54.02	20.70	9.83	10.18	Average
6		0.19	50.11	-13.91	64.02	30.10	9.83	10.18	QP
7		0.21	36.06	-17.08	53.14	16.11	9.77	10.18	Average
8		0.21	46.16	-16.98	63.14	26.21	9.77	10.18	QP
9		0.57	29.27	-16.73	46.00	9.40	9.63	10.24	Average
10		0.57	36.77	-19.23	56.00	16.90	9.63	10.24	QP
11		5.06	28.97	-21.03	50.00	8.99	9.71	10.27	Average
12		5.06	35.27	-24.73	60.00	15.29	9.71	10.27	QP

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 Engineer :	Winter	Relative Humidity :	50%
		Temperature :	20℃-22℃

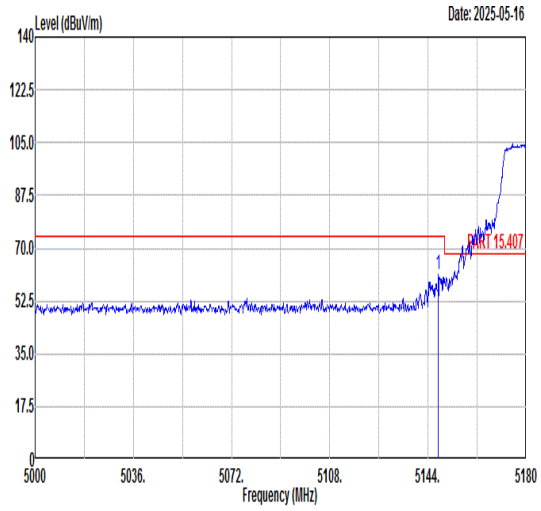
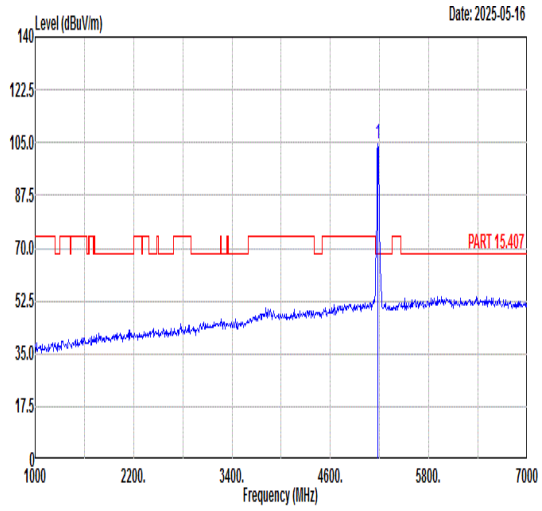
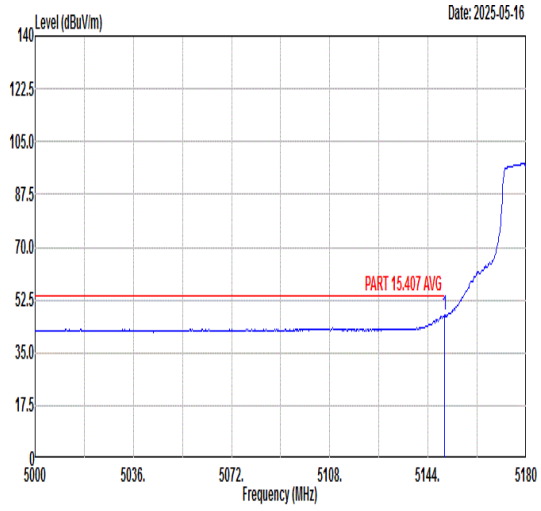
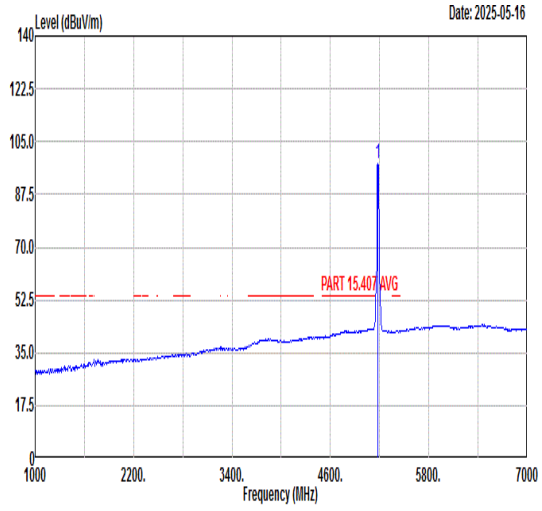
Radiated Spurious Emission Test Modes

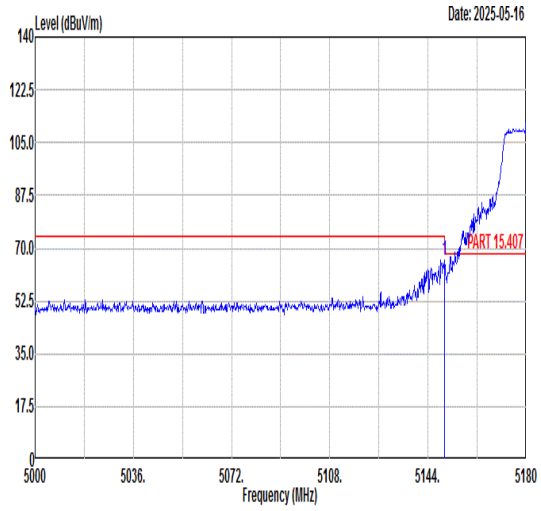
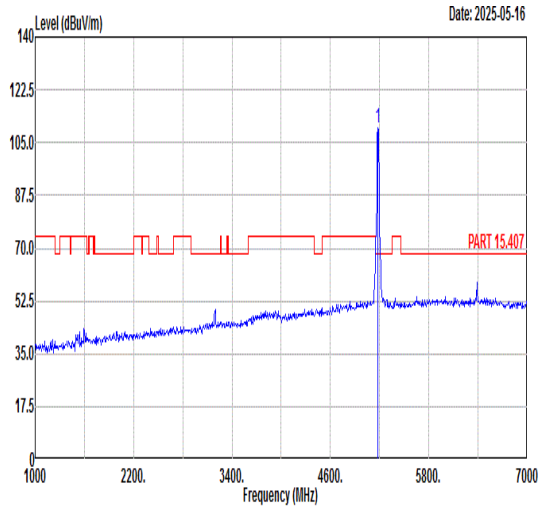
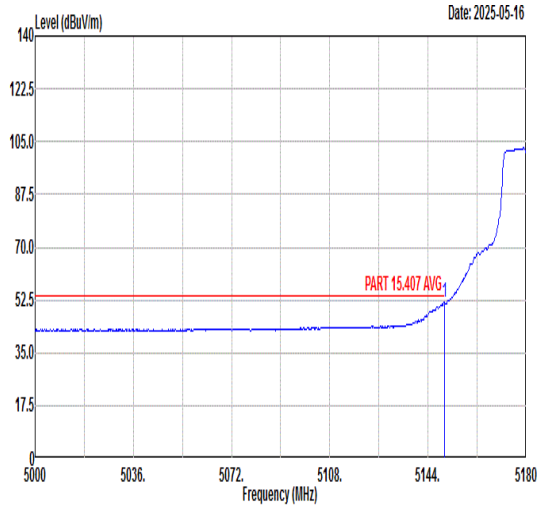
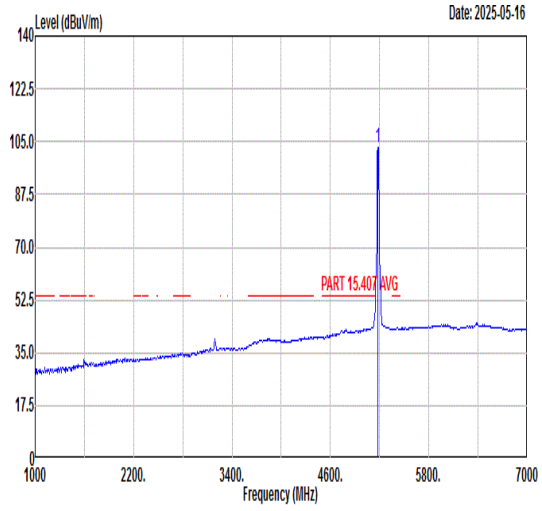
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	1	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	1	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	1	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-2A	5.25-5.35	1	802.11a	52	5280	6Mbps	-	-
Mode 5	U-NII-2A	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	802.11n HT20	52	5280	MCS0	-	-
Mode 14	U-NII-2A	5.25-5.35	1	802.11n HT20	60	5300	MCS0	-	-
Mode 15	U-NII-2A	5.25-5.35	1	802.11n HT20	64	5320	MCS0	-	-
Mode 16	U-NII-2C	5.47-5.725	1	802.11n HT20	100	5500	MCS0	-	-
Mode 17	U-NII-2C	5.47-5.725	1	802.11n HT20	116	5580	MCS0	-	-
Mode 18	U-NII-2C	5.47-5.725	1	802.11n HT20	140	5700	MCS0	-	-
Mode 19	U-NII-1	5.15-5.25	1	802.11n HT40	38	5190	MCS0	-	-
Mode 20	U-NII-1	5.15-5.25	1	802.11n HT40	46	5230	MCS0	-	-
Mode 21	U-NII-2A	5.25-5.35	1	802.11n HT40	54	5270	MCS0	-	-
Mode 22	U-NII-2A	5.25-5.35	1	802.11n HT40	62	5310	MCS0	-	-
Mode 23	U-NII-2C	5.47-5.725	1	802.11n HT40	102	5510	MCS0	-	-
Mode 24	U-NII-2C	5.47-5.725	1	802.11n HT40	110	5550	MCS0	-	-
Mode 25	U-NII-2C	5.47-5.725	1	802.11n HT40	134	5670	MCS0	-	-
Mode 26	U-NII-3	5.725-5.85	1	802.11a	149	5745	6Mbps	-	-
Mode 27	U-NII-3	5.725-5.85	1	802.11a	157	5785	6Mbps	-	-
Mode 28	U-NII-3	5.725-5.85	1	802.11a	165	5825	6Mbps	-	-
Mode 29	U-NII-3	5.725-5.85	1	802.11n HT20	149	5745	MCS0	-	-
Mode 30	U-NII-3	5.725-5.85	1	802.11n HT20	157	5785	MCS0	-	-
Mode 31	U-NII-3	5.725-5.85	1	802.11n HT20	165	5825	MCS0	-	-
Mode 32	U-NII-3	5.725-5.85	1	802.11n HT40	151	5755	MCS0	-	-
Mode 33	U-NII-3	5.725-5.85	1	802.11n HT40	159	5795	MCS0	-	-
Mode 34	U-NII-2C	5.725-5.85	1	802.11a	144	5720	6Mbps	-	-
Mode 35	U-NII-2C	5.725-5.85	1	802.11a	144	5720	6Mbps	-	-
Mode 36	U-NII-2C	5.725-5.85	1	802.11n HT20	144	5720	MCS0	-	-
Mode 37	U-NII-2C	5.725-5.85	1	802.11n HT40	142	5710	MCS0	-	-
Mode 38	U-NII-2A	5.25-5.35	1	802.11n HT20	64	5320	MCS0	-	LF
Mode 39	U-NII-3	5.725-5.85	1	802.11a	165	5825	6Mbps	-	LF

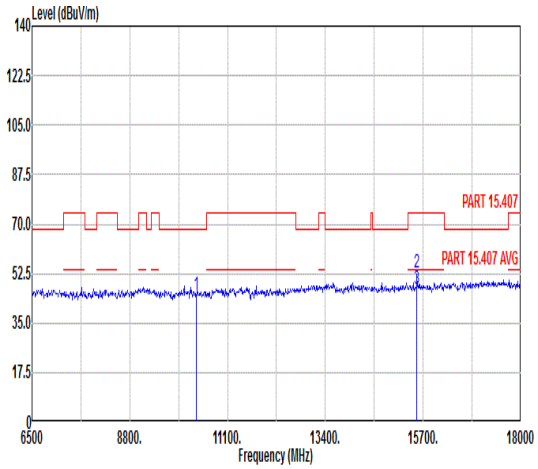
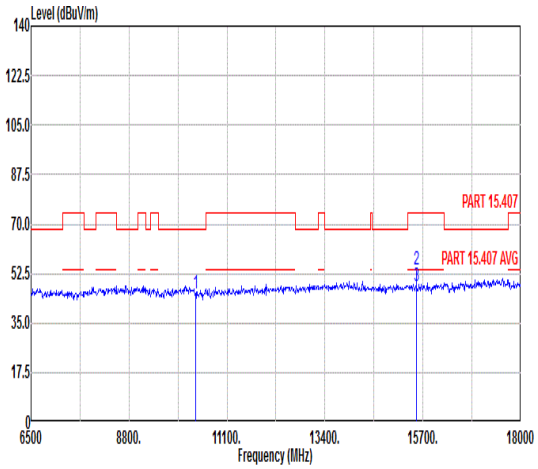
Summary of each worse mode

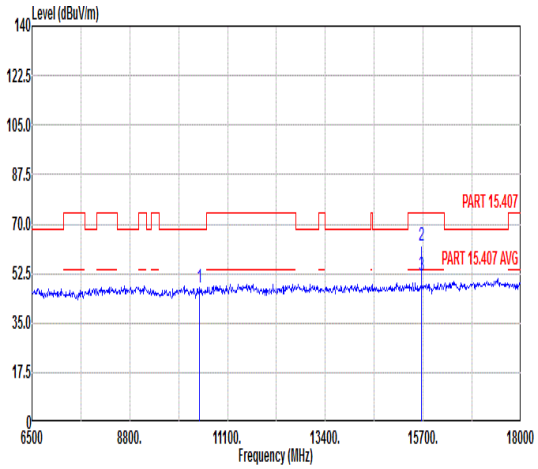
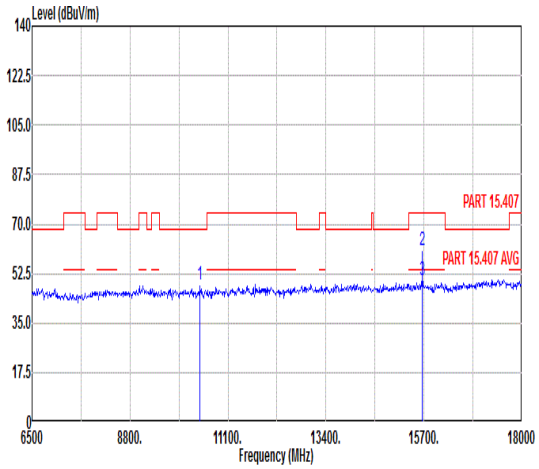
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5149.94	51.68	54.00	-2.32	V	Average	Pass	Band Edge
1	802.11a	36	15540.00	48.33	54.00	-5.67	V	Average	Pass	Harmonic
2	802.11a	44	-	-	-	-	-	-	-	Band Edge
2	802.11a	44	15660.00	51.75	54.00	-2.25	H	Average	Pass	Harmonic
3	802.11a	48	-	-	-	-	-	-	-	Band Edge
3	802.11a	48	15720.00	50.95	54.00	-3.05	V	Average	Pass	Harmonic
4	802.11a	52	-	-	-	-	-	-	-	Band Edge
4	802.11a	52	15780	49.4	54	-4.6	V	Average	Pass	Harmonic
5	802.11a	60	-	-	-	-	-	-	-	Band Edge
5	802.11a	60	15900.00	49.31	54.00	-4.69	V	Average	Pass	Harmonic
6	802.11a	64	5350.66	51.33	54.00	-2.67	V	AVERAGE	Pass	Band Edge
6	802.11a	64	15960.00	49.06	54.00	-4.94	V	Average	Pass	Harmonic
7	802.11a	100	5468.05	66.04	68.30	-2.26	V	PEAK	Pass	Band Edge
7	802.11a	100	16500.00	60.15	68.30	-8.15	V	Peak	Pass	Harmonic
8	802.11a	116	-	-	-	-	-	-	-	Band Edge
8	802.11a	116	16740.00	60.51	68.30	-7.79	V	Peak	Pass	Harmonic
9	802.11a	140	5725.03	64.64	68.30	-3.66	V	Peak	Pass	Band Edge
9	802.11a	140	17100.00	57.50	68.30	-10.80	V	Peak	Pass	Harmonic
10	802.11n HT20	36	5149.94	51.67	54.00	-2.33	V	Average	Pass	Band Edge
10	802.11n HT20	36	15540.00	47.19	54.00	-6.81	V	Average	Pass	Harmonic
11	802.11n HT20	44	-	-	-	-	-	-	-	Band Edge
11	802.11n HT20	44	15660.00	51.67	54.00	-2.33	V	Average	Pass	Harmonic
12	802.11n HT20	48	-	-	-	-	-	-	-	Band Edge
12	802.11n HT20	48	15720.00	51.38	54.00	-2.62	V	Average	Pass	Harmonic
13	802.11n HT20	52	-	-	-	-	-	-	-	Band Edge
13	802.11n HT20	52	15780.00	50.05	54	-3.95	V	Average	Pass	Harmonic
14	802.11n HT20	60	-	-	-	-	-	-	-	Band Edge
14	802.11n HT20	60	15900.00	49.48	54.00	-4.52	V	Average	Pass	Harmonic
15	802.11n HT20	64	5350.10	51.79	54.00	-2.21	V	Average	Pass	Band Edge
15	802.11n HT20	64	15960.00	48.67	54.00	-5.33	V	Average	Pass	Harmonic
16	802.11n HT20	100	5467.00	65.50	68.30	-2.80	V	Peak	Pass	Band Edge
16	802.11n HT20	100	16500.00	60.68	68.30	-7.62	V	Peak	Pass	Harmonic
17	802.11n HT20	116	-	-	-	-	-	-	-	Band Edge
17	802.11n HT20	116	16740.00	59.46	68.30	-8.84	V	Peak	Pass	Harmonic
18	802.11n HT20	140	5726.98	65.73	68.30	-2.57	V	Peak	Pass	Band Edge
18	802.11n HT20	140	17100.00	57.22	68.30	-11.08	V	Peak	Pass	Harmonic
19	802.11n HT40	38	5149.53	50.14	54.00	-3.86	V	Average	Pass	Band Edge
19	802.11n HT40	38	10380.00	48.43	68.30	-19.87	V	Peak	Pass	Harmonic
20	802.11n HT40	46	5149.96	50.91	54.00	-3.09	H	Average	Pass	Band Edge
20	802.11n HT40	46	15690.00	50.44	54.00	-3.56	V	Average	Pass	Harmonic
21	802.11n HT40	54	-	-	-	-	-	-	-	Band Edge
21	802.11n HT40	54	15810.00	49.34	54.00	-4.66	V	Average	Pass	Harmonic
22	802.11n HT40	62	5351.40	51.57	54.00	-2.43	V	Average	Pass	Band Edge
22	802.11n HT40	62	15930.00	48.26	74.00	-25.74	H	Peak	Pass	Harmonic

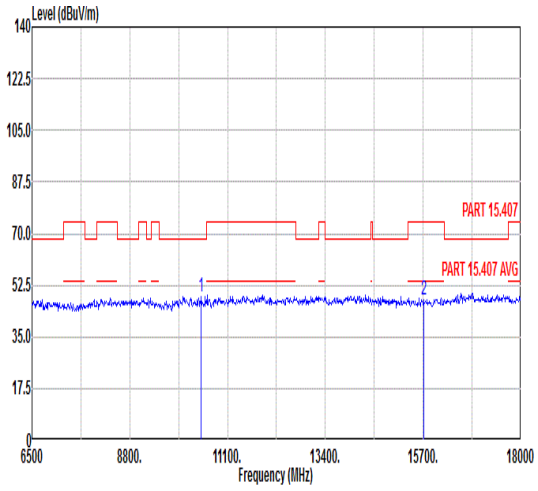
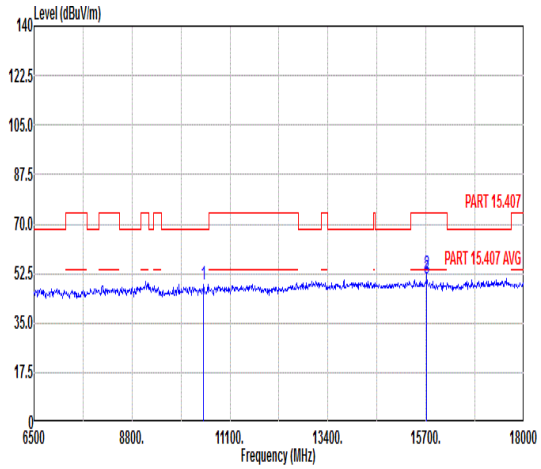
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
23	802.11n HT40	102	5468.40	65.55	68.30	-2.75	V	Peak	Pass	Band Edge
23	802.11n HT40	102	16530.00	49.12	68.30	-19.18	H	Peak	Pass	Harmonic
24	802.11n HT40	110	-	-	-	-	-	-	-	Band Edge
24	802.11n HT40	110	16650.00	58.96	68.30	-9.34	V	Peak	Pass	Harmonic
25	802.11n HT40	134	5726.34	65.17	68.30	-3.13	V	Peak	Pass	Band Edge
25	802.11n HT40	134	17010.00	59.94	68.30	-8.36	V	Peak	Pass	Harmonic
26	802.11a	149	5624.65	54.34	68.30	-13.96	H	Peak	Pass	Band Edge
26	802.11a	149	17235.00	65.65	68.30	-2.65	H	Peak	Pass	Harmonic
27	802.11a	157	-	-	-	-	-	-	-	Band Edge
27	802.11a	157	17355.00	65.20	68.30	-3.10	H	Peak	Pass	Harmonic
28	802.11a	165	5944.00	56.00	68.30	-12.30	H	Peak	Pass	Band Edge
28	802.11a	165	17475.00	66.20	68.30	-2.10	H	Peak	Pass	Harmonic
29	802.11n HT20	149	5648.58	54.06	68.30	-14.24	H	Peak	Pass	Band Edge
29	802.11n HT20	149	17235.00	66.05	68.30	-2.25	H	Peak	Pass	Harmonic
30	802.11n HT20	157	-	-	-	-	-	-	-	Band Edge
30	802.11n HT20	157	17355.00	65.65	68.30	-2.65	H	Peak	Pass	Harmonic
31	802.11n HT20	165	5929.75	54.73	68.30	-13.57	V	Peak	Pass	Band Edge
31	802.11n HT20	165	17475.00	66.15	68.30	-2.15	H	Peak	Pass	Harmonic
32	802.11n HT40	151	5624.49	55.28	68.30	-13.02	H	Peak	Pass	Band Edge
32	802.11n HT40	151	11510.00	49.17	54.00	-4.83	V	Average	Pass	Harmonic
33	802.11n HT40	159	5638.81	54.85	68.30	-13.45	H	Peak	Pass	Band Edge
33	802.11n HT40	159	17385.00	63.17	68.30	-5.13	H	Peak	Pass	Harmonic
34	802.11a	144	-	-	-	-	-	-	-	Band Edge
34	802.11a	144	11440.00	50.04	54.00	-3.96	H	Average	Pass	Harmonic
36	802.11n HT20	144	-	-	-	-	-	-	-	Band Edge
36	802.11n HT20	144	11440.00	50.65	54.00	-3.35	H	Average	Pass	Harmonic
37	802.11n HT40	142	-	-	-	-	-	-	-	Band Edge
37	802.11n HT40	142	11420.00	48.54	54.00	-5.46	H	Average	Pass	Harmonic
38	802.11n HT20	64	796.3	35.57	46	-10.43	H	Peak	Pass	LF
39	802.11a	165	398.6	37.65	46	-8.35	H	Peak	Pass	LF

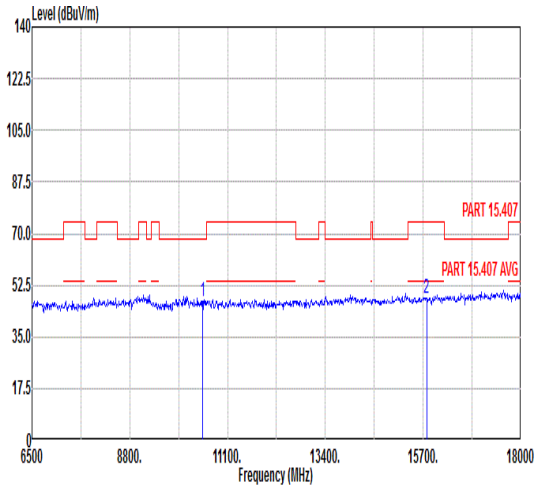
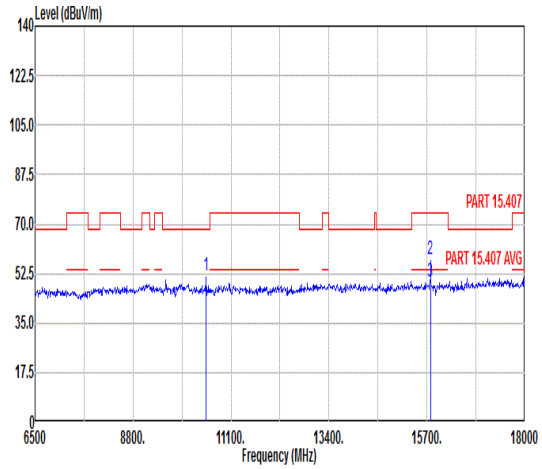
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5147.78 61.05 74.00 -12.95 49.41 36.58 8.53 33.47 100 353 PEAK	 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 5180.00 104.48 ------ ------ 92.80 36.55 8.59 33.46 100 353 PEAK
Avg	 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 5149.94 47.78 54.00 -6.22 36.13 36.58 8.54 33.47 100 353 AVERAGE	 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 97.92 ------ ------ 86.24 36.55 8.59 33.46 100 353 AVERAGE

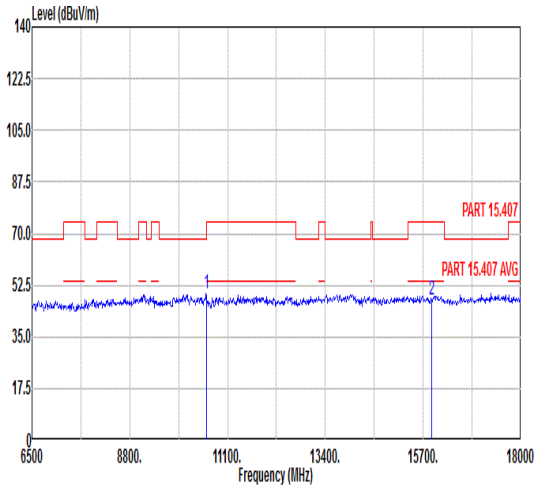
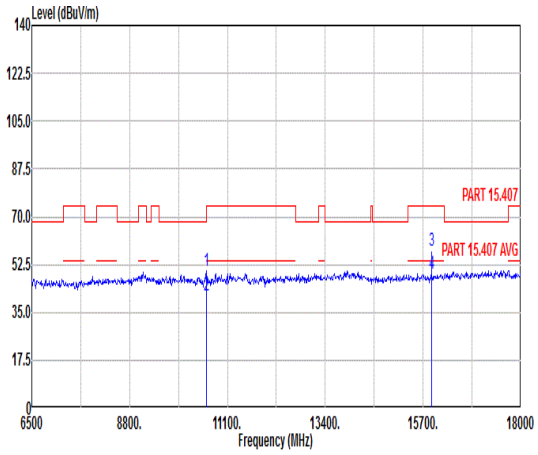
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.94 66.26 74.00 -7.74 54.61 36.58 8.54 33.47 100 238 PEAK	 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 5180.00 109.87 ------ ------ 98.19 36.55 8.59 33.46 100 238 PEAK
Avg	 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 5149.94 51.68 54.00 -2.32 40.03 36.58 8.54 33.47 100 238 AVERAGE	 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 5180.00 103.24 ------ ------ 91.54 36.55 8.61 33.46 100 238 AVERAGE

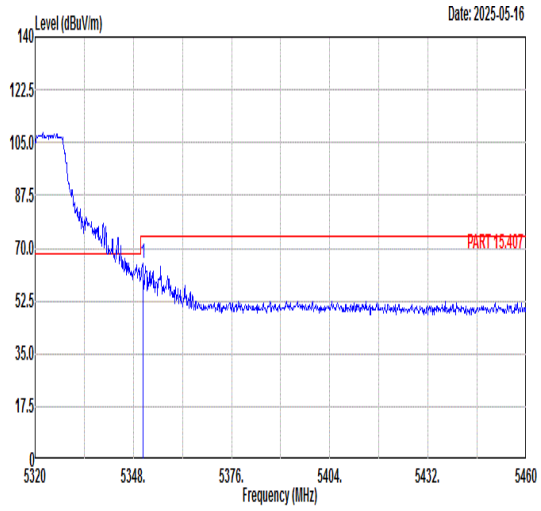
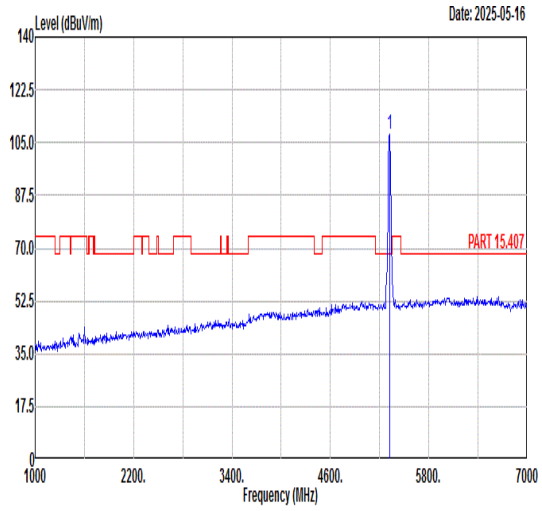
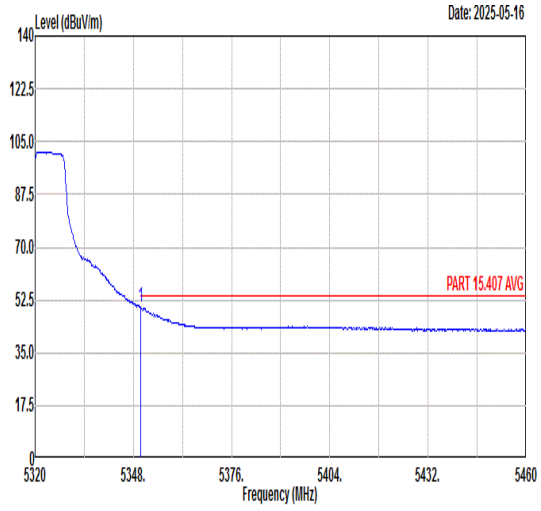
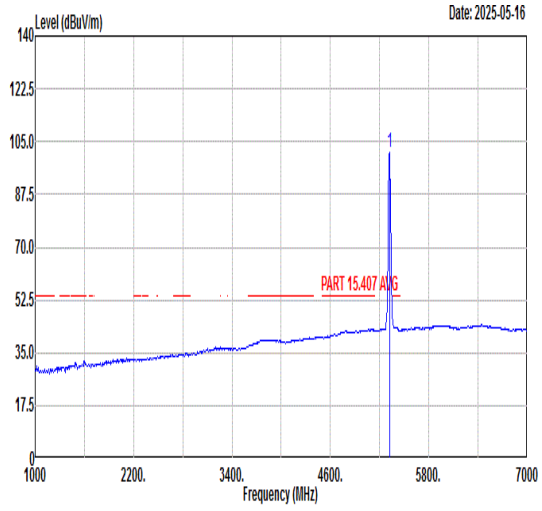
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10360.00 45.12 68.30 -23.18 58.35 38.47 12.06 63.76 --- --- Peak 2 15540.00 53.03 74.00 -20.97 61.51 41.32 14.58 64.38 100 215 Peak 3 15540.00 46.83 54.00 -7.17 55.31 41.32 14.58 64.38 100 215 Average	 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 45.37 68.30 -22.93 58.60 38.47 12.06 63.76 --- --- Peak 2 15540.00 54.10 74.00 -19.90 62.58 41.32 14.58 64.38 100 188 Peak 3 15540.00 48.33 54.00 -5.67 56.81 41.32 14.58 64.38 100 188 Average

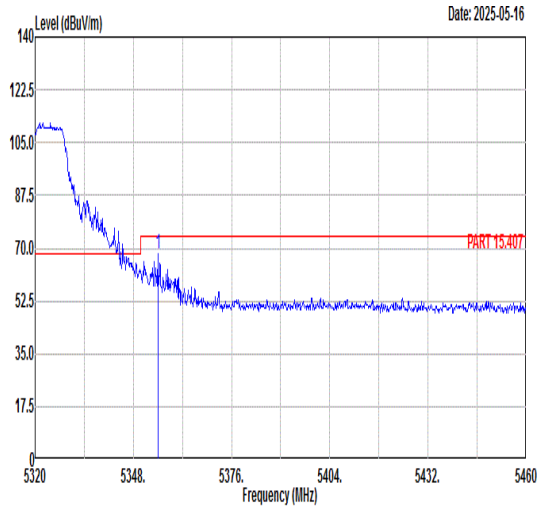
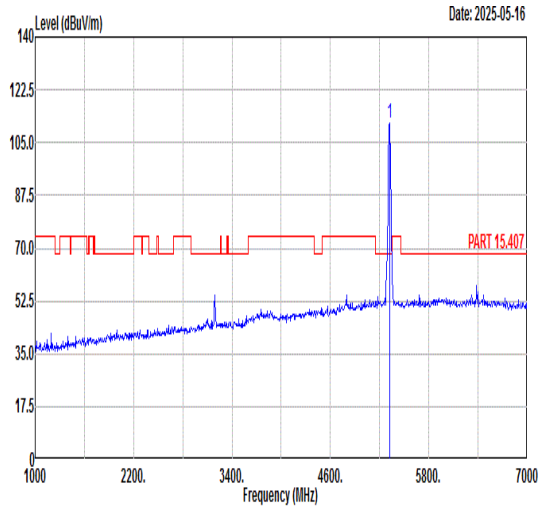
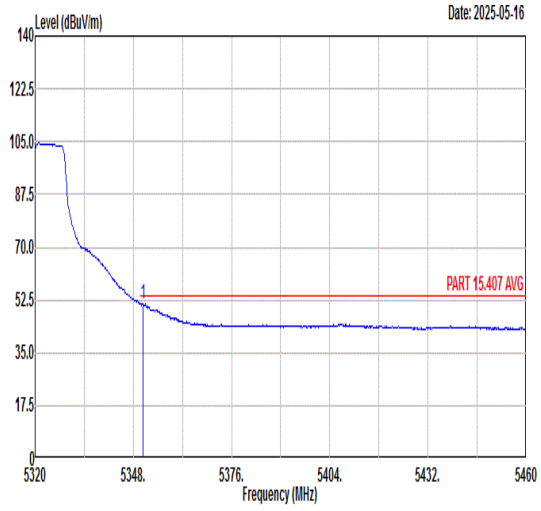
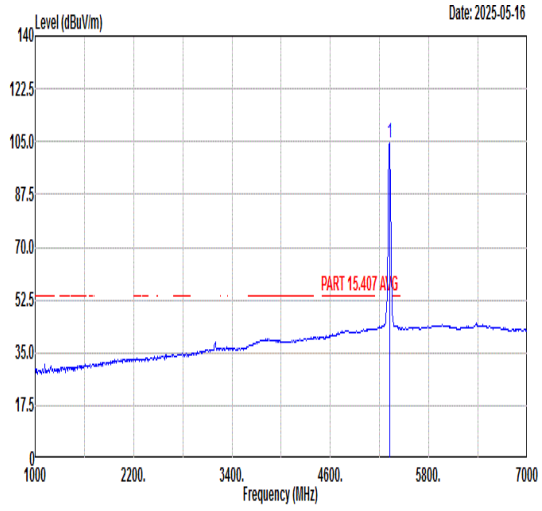
Mode	2	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10440.00 47.51 68.30 -20.79 60.62 38.49 12.12 63.72 --- --- Peak 2 15660.00 62.39 74.00 -11.61 70.81 41.40 14.64 64.46 374 241 Peak 3 15660.00 51.75 54.00 -2.25 60.17 41.40 14.64 64.46 374 241 Average	 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 48.59 68.30 -19.71 61.70 38.49 12.12 63.72 --- --- Peak 2 15660.00 60.78 74.00 -13.22 69.20 41.40 14.64 64.46 319 246 Peak 3 15660.00 50.31 54.00 -3.69 58.73 41.40 14.64 64.46 319 246 Average

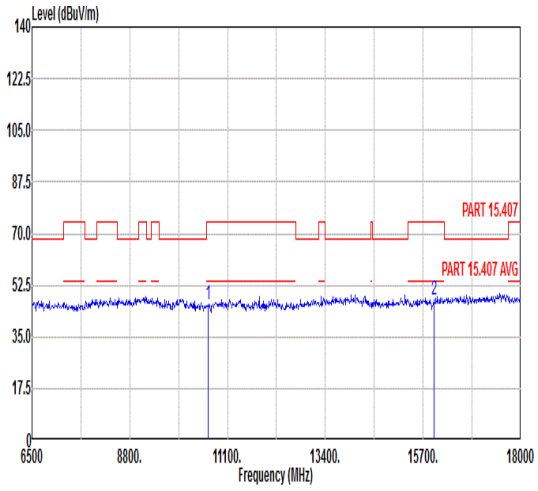
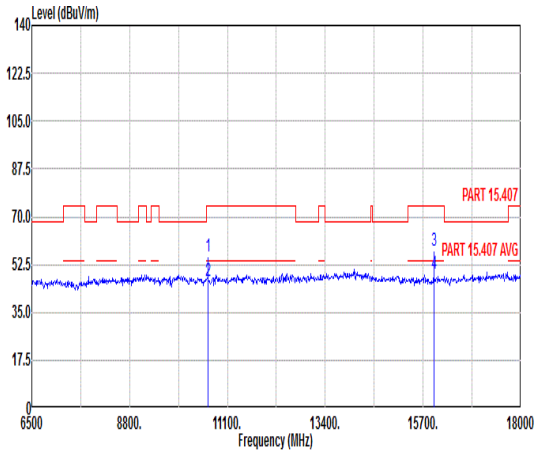
Mode	3	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 48.52 68.30 -19.78 61.58 38.50 12.15 63.71 --- --- Peak 2 15720.00 47.62 74.00 -26.38 56.03 41.43 14.66 64.50 --- --- Peak	 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 48.74 68.30 -19.56 61.80 38.50 12.15 63.71 --- --- Peak 2 15720.00 52.23 74.00 -21.77 60.64 41.43 14.66 64.50 100 168 Peak 3 15720.00 50.95 54.00 -3.05 59.36 41.43 14.66 64.50 100 168 Average

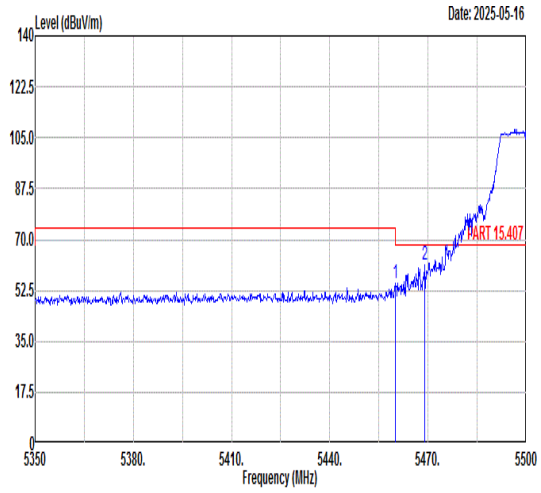
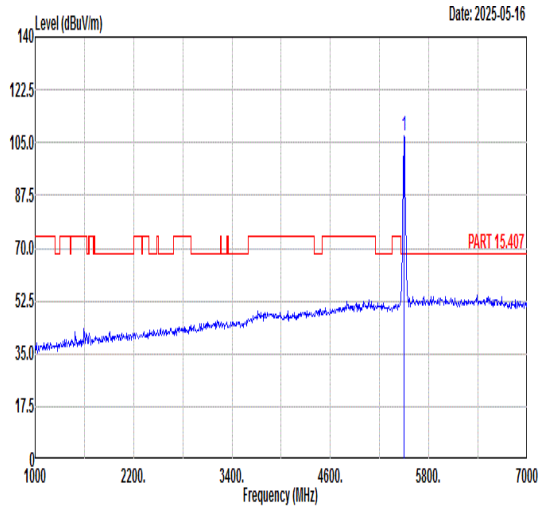
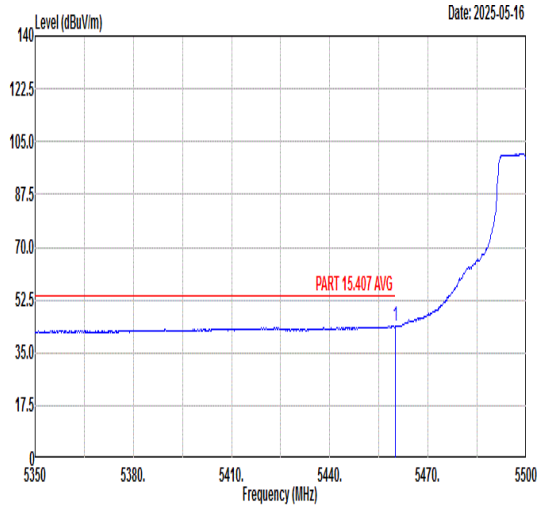
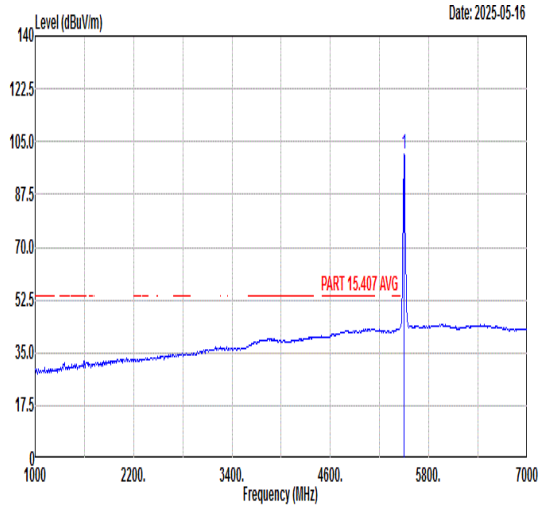
Mode	4	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH52_5280MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 47.10 68.30 -21.20 60.11 38.50 12.18 63.69 --- --- Peak 2 15780.00 48.31 74.00 -25.69 56.70 41.47 14.69 64.55 --- --- Peak	 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 51.54 68.30 -16.76 64.55 38.50 12.18 63.69 100 154 Peak 2 15780.00 57.32 74.00 -16.68 65.71 41.47 14.69 64.55 100 182 Peak 3 15780.00 49.40 54.00 -4.60 57.79 41.47 14.69 64.55 100 182 Average

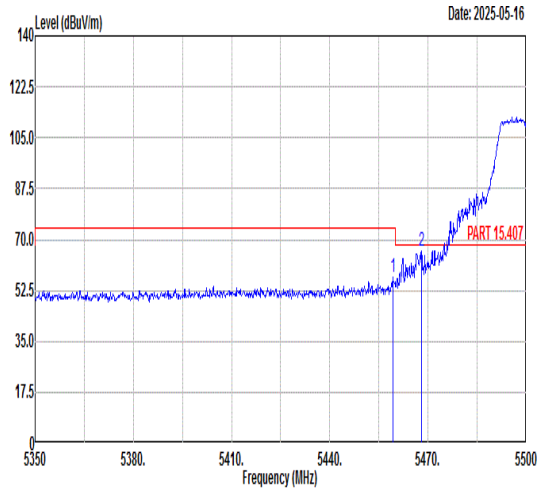
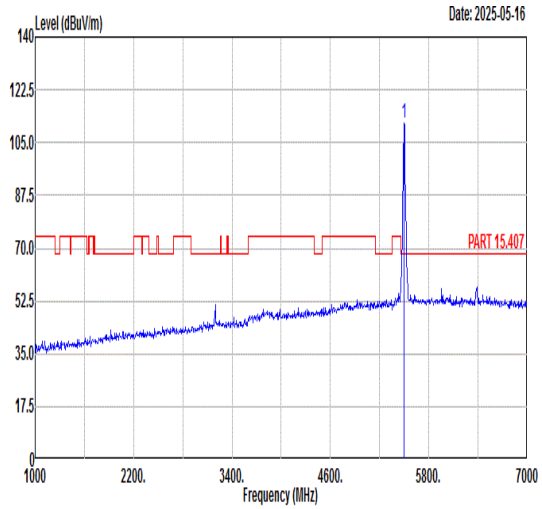
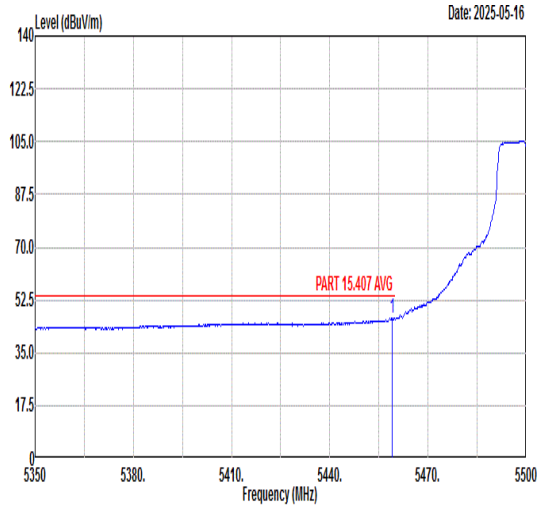
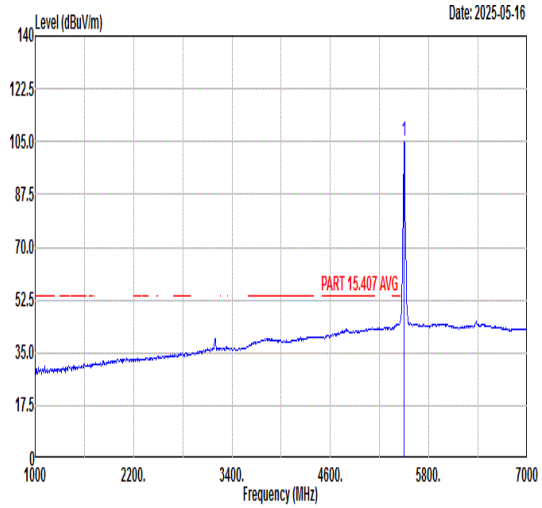
Mode	5	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH60_5300MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 49.78 74.00 -24.22 62.69 38.52 12.23 63.66 --- --- Peak 2 15900.00 47.71 74.00 -26.29 56.05 41.54 14.75 64.63 --- --- Peak	 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 49.96 74.00 -24.04 62.87 38.52 12.23 63.66 152 187 Peak 2 10600.00 41.39 54.00 -12.61 54.30 38.52 12.23 63.66 152 187 Average 3 15900.00 57.55 74.00 -16.45 65.89 41.54 14.75 64.63 100 184 Peak 4 15900.00 49.31 54.00 -4.69 57.65 41.54 14.75 64.63 100 184 Average

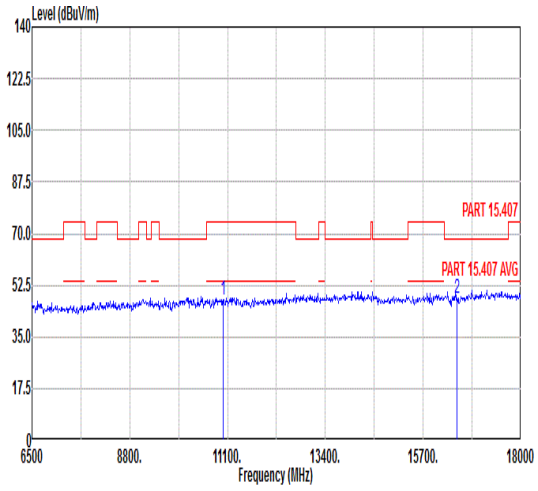
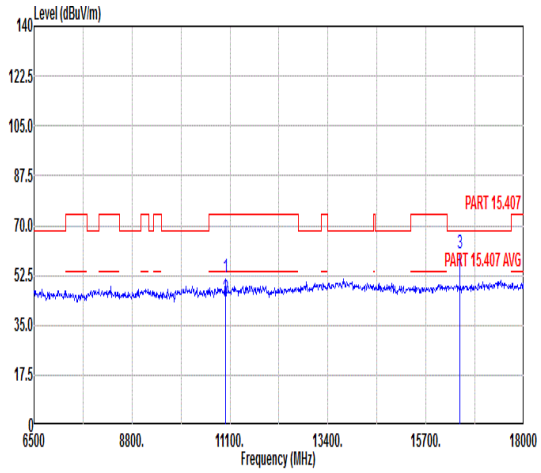
Mode	6	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.66 64.94 74.00 -9.06 52.58 36.42 9.37 33.43 317 229 PEAK	 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 5320.00 107.80 ------ ------ 95.59 36.44 9.21 33.44 317 229 PEAK
Avg	 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 5350.10 50.00 54.00 -4.00 37.64 36.42 9.37 33.43 317 229 AVERAGE	 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 5320.00 101.45 ------ ------ 89.24 36.44 9.21 33.44 317 229 AVERAGE

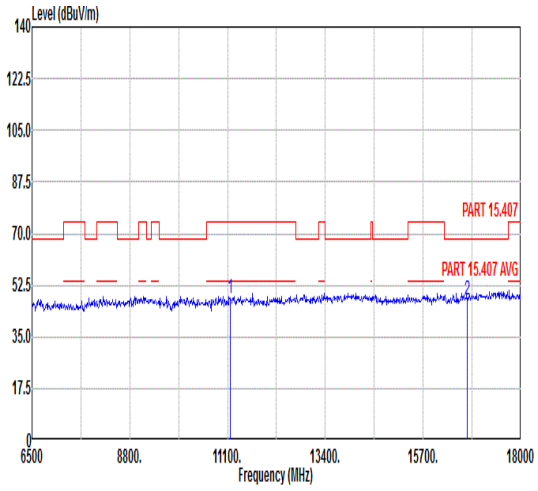
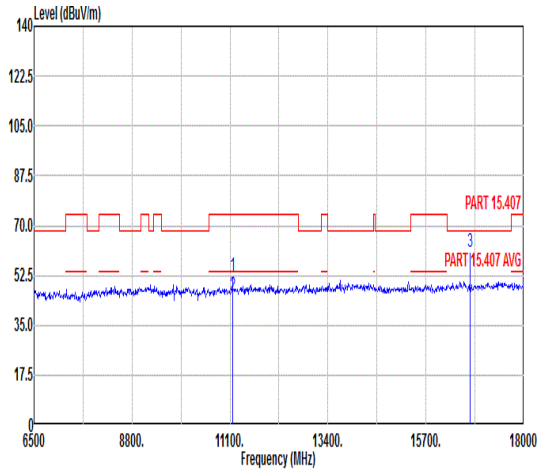
Mode	6	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5355.00 67.97 74.00 -6.03 55.59 36.42 9.39 33.43 100 236 PEAK	 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 5320.00 111.46 ------ ------ 99.25 36.44 9.21 33.44 100 236 PEAK
Avg	 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 5350.66 51.33 54.00 -2.67 38.97 36.42 9.37 33.43 100 236 AVERAGE	 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 5320.00 104.45 ------ ------ 92.24 36.44 9.21 33.44 100 236 AVERAGE

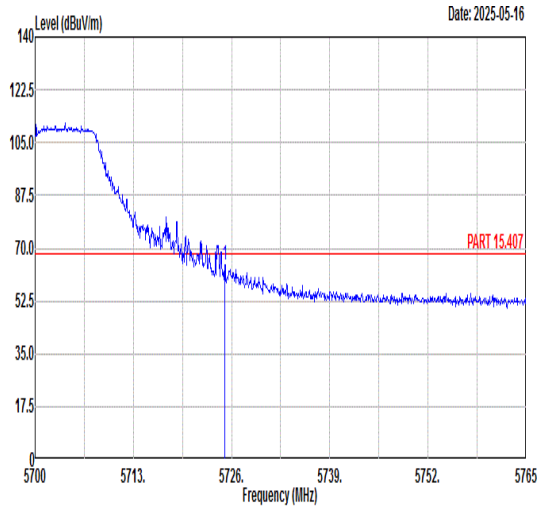
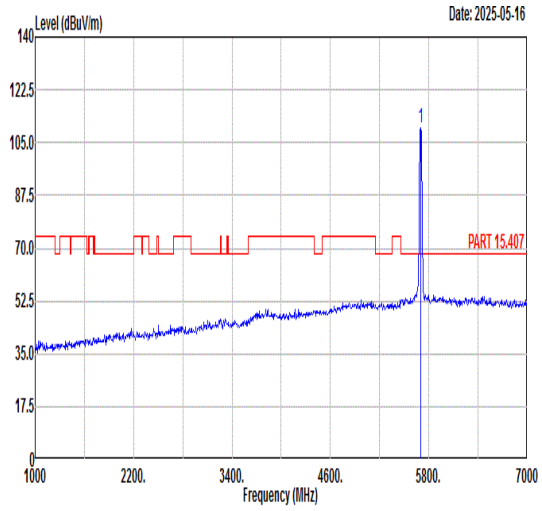
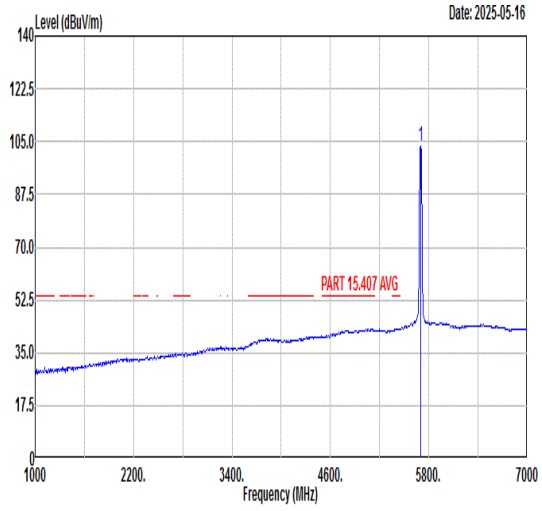
Mode	6	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 46.09 74.00 -27.91 58.94 38.53 12.26 63.64 --- --- Peak 2 15960.00 47.45 74.00 -26.55 55.77 41.58 14.77 64.67 --- --- Peak	 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 55.46 74.00 -18.54 68.31 38.53 12.26 63.64 100 56 Peak 2 10640.00 46.66 54.00 -7.34 59.51 38.53 12.26 63.64 100 56 Average 3 15960.00 57.49 74.00 -16.51 65.81 41.58 14.77 64.67 100 184 Peak 4 15960.00 49.06 54.00 -4.94 57.38 41.58 14.77 64.67 100 184 Average

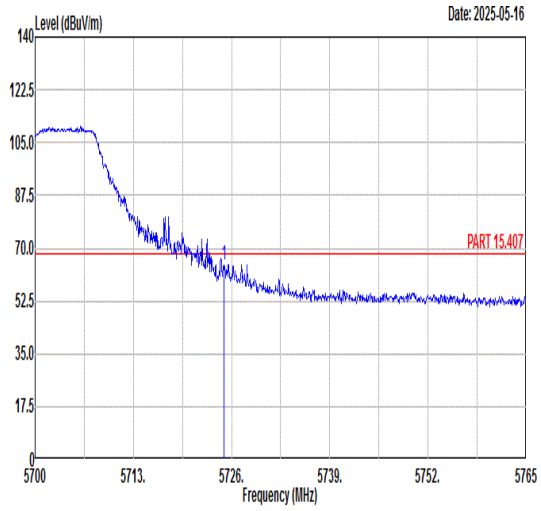
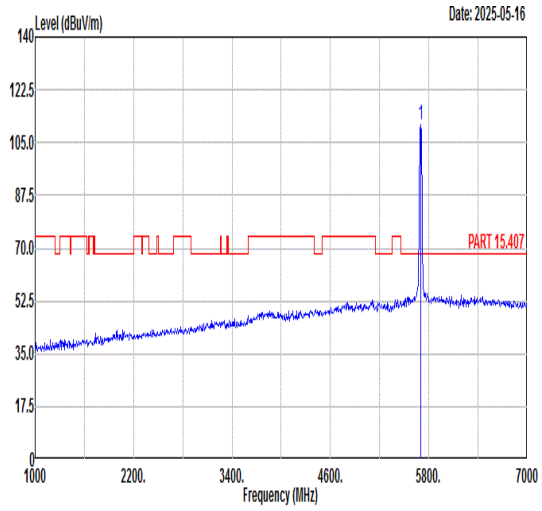
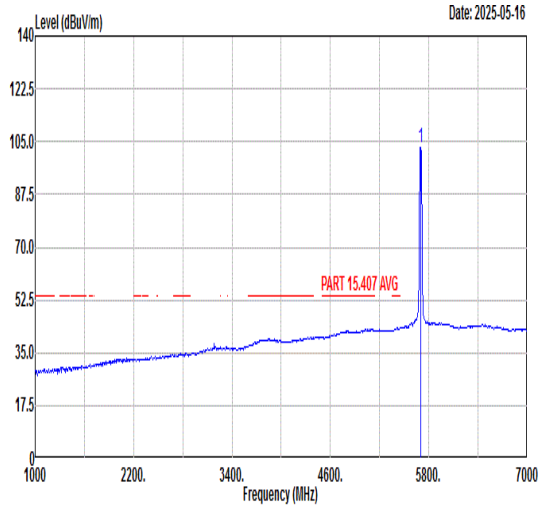
Mode	7	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5459.95 55.20 74.00 -18.80 42.59 36.33 9.69 33.41 300 246 PEAK 2 5468.95 61.45 68.30 -6.85 48.85 36.32 9.69 33.41 300 246 PEAK	 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 5500.00 107.11 ------ ------ 94.50 36.30 9.71 33.40 300 246 PEAK
Avg	 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 5459.95 44.00 54.00 -10.00 31.39 36.33 9.69 33.41 300 246 AVERAGE	 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 5500.00 100.71 ------ ------ 88.10 36.30 9.71 33.40 300 246 AVERAGE

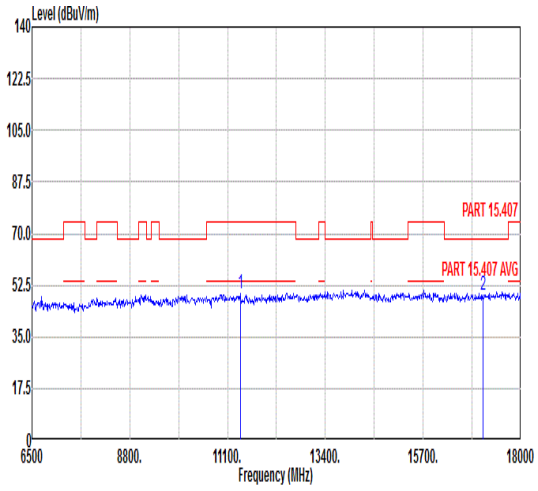
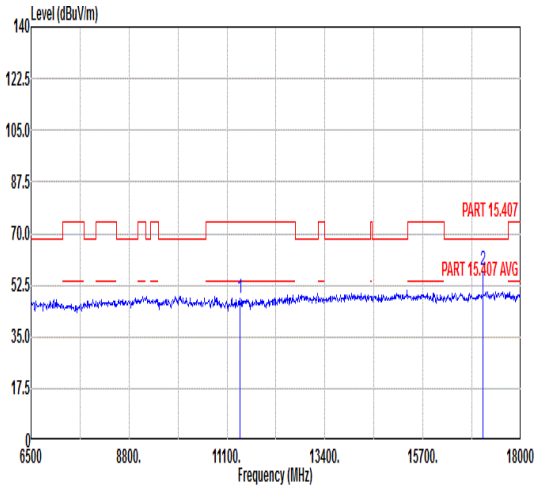
Mode	7	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5459.20 56.85 74.00 -17.15 44.24 36.33 9.69 33.41 109 239 PEAK 2 5468.05 66.04 68.30 -2.26 53.43 36.33 9.69 33.41 109 239 PEAK	 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 5500.00 111.47 ------ ------ 98.86 36.30 9.71 33.40 109 239 PEAK
Avg	 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 5459.05 46.39 54.00 -7.61 33.78 36.33 9.69 33.41 109 239 AVERAGE	 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 5500.00 104.88 ------ ------ 92.27 36.30 9.71 33.40 109 239 AVERAGE

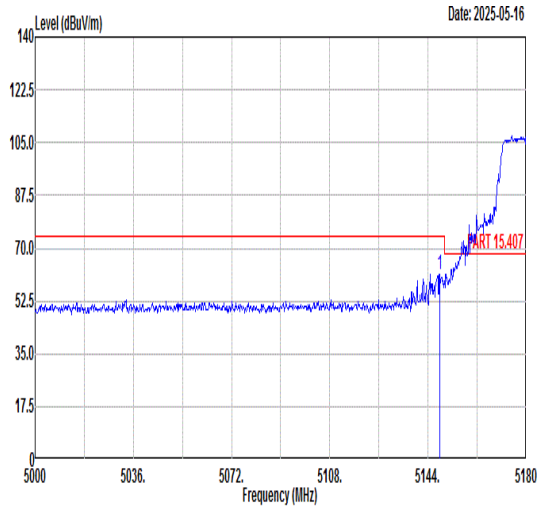
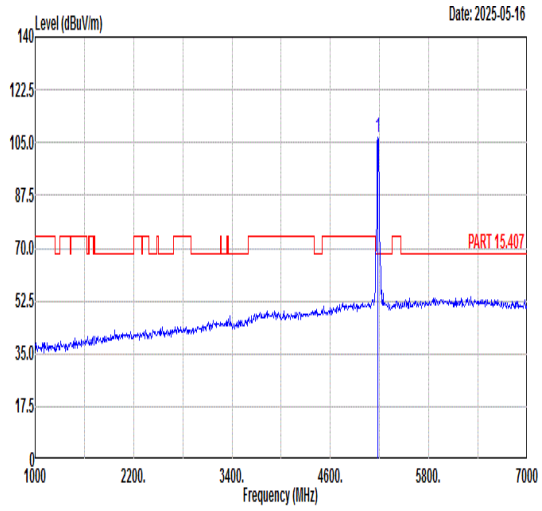
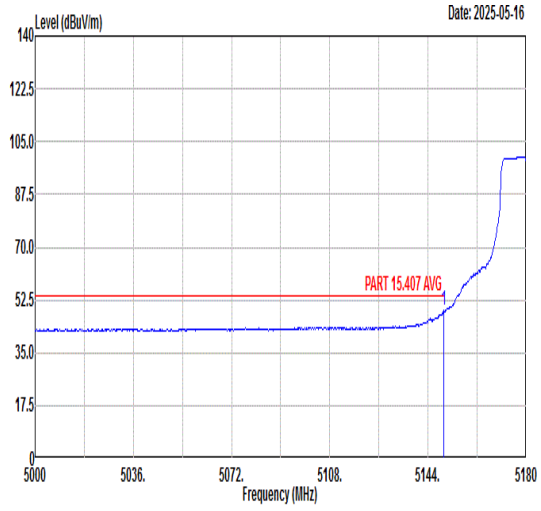
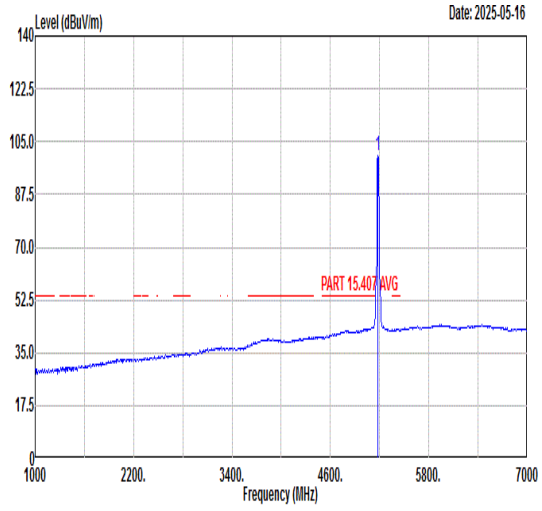
Mode	7	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11000.00 47.55 74.00 -26.45 59.93 38.60 12.52 63.50 --- --- Peak 2 16500.00 47.83 68.30 -20.47 55.46 41.95 15.17 64.75 --- --- Peak	 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 51.72 74.00 -22.28 64.10 38.60 12.52 63.50 100 28 Peak 2 11000.00 44.31 54.00 -9.69 56.69 38.60 12.52 63.50 100 28 Average 3 16500.00 60.15 68.30 -8.15 67.78 41.95 15.17 64.75 100 92 Peak

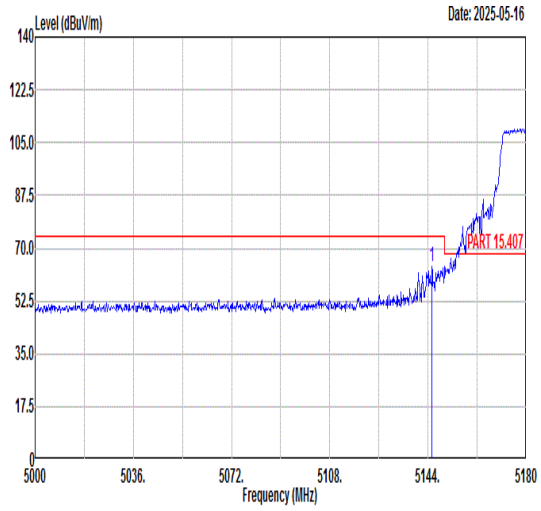
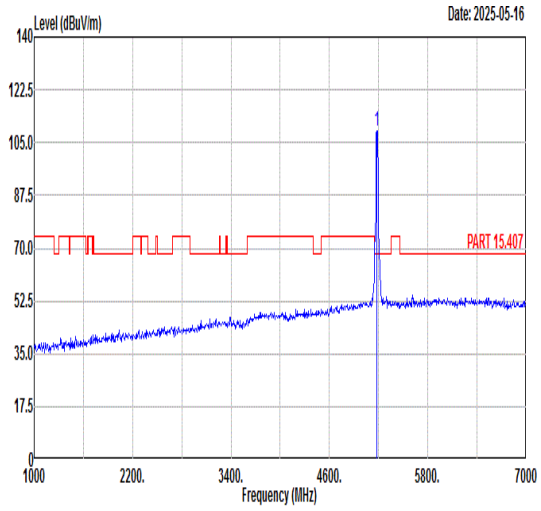
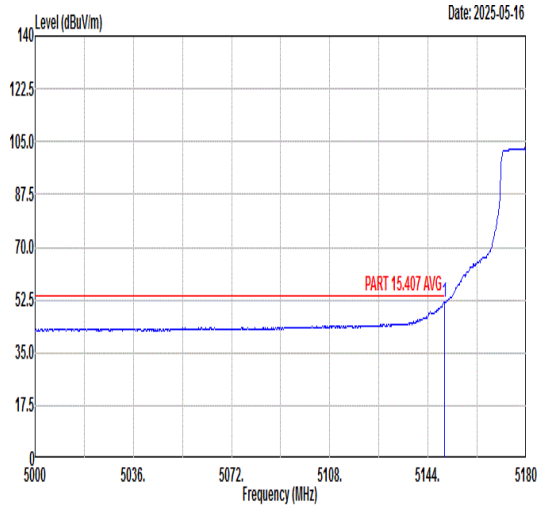
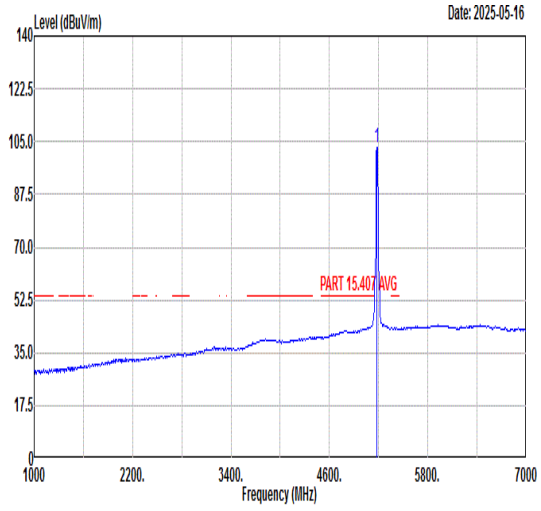
Mode	8	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11160.00 48.04 74.00 -25.96 60.22 38.79 12.64 63.61 --- --- Peak 2 16740.00 47.63 68.30 -20.67 54.93 42.12 15.35 64.77 --- --- Peak	 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 11160.00 52.11 74.00 -21.89 64.29 38.79 12.64 63.61 100 30 Peak 2 11160.00 45.33 54.00 -8.67 57.51 38.79 12.64 63.61 100 30 Average 3 16740.00 60.51 68.30 -7.79 67.81 42.12 15.35 64.77 100 94 Peak

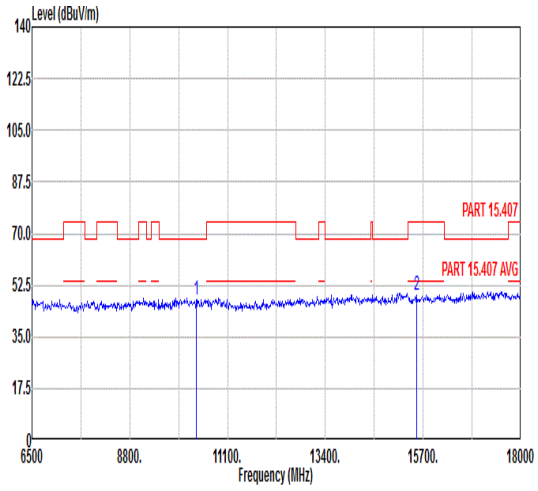
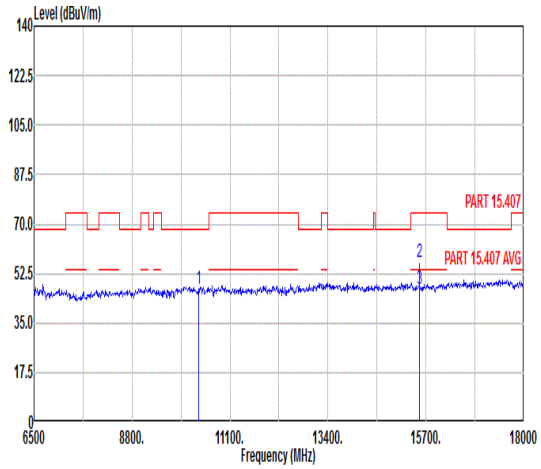
Mode	9	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5725.09 64.47 68.30 -3.83 51.37 36.53 10.02 33.45 270 247 PEAK	 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 5700.00 109.85 ------ ------ 96.82 36.50 9.97 33.44 270 247 PEAK
Avg	Blank	 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 5700.00 103.32 ------ ------ 90.30 36.50 9.96 33.44 270 247 AVERAGE

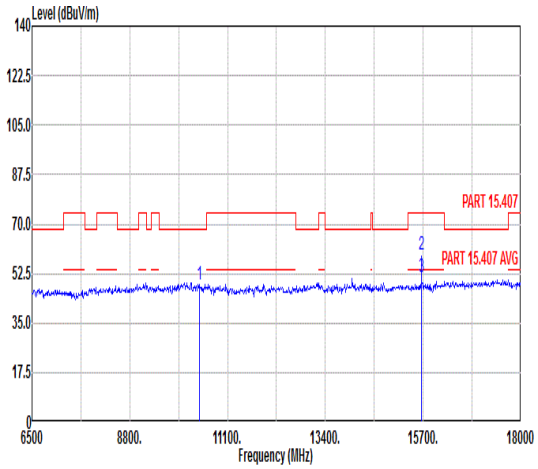
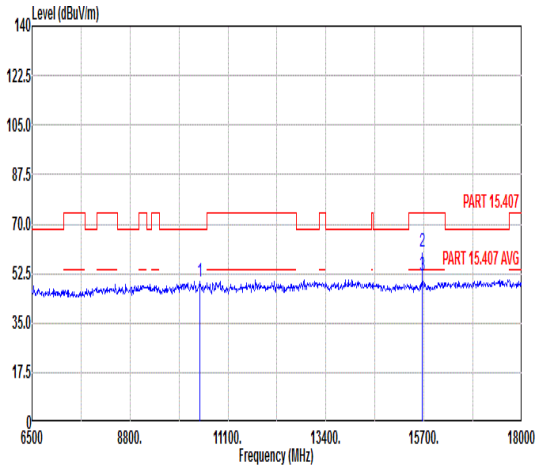
Mode	9	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5725.03 64.64 68.30 -3.66 51.54 36.53 10.02 33.45 100 256 PEAK	 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 5700.00 111.06 ------ ------ 98.03 36.50 9.97 33.44 100 256 PEAK
Avg	Blank	 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 5700.00 103.24 ------ ------ 90.22 36.50 9.96 33.44 100 256 AVERAGE

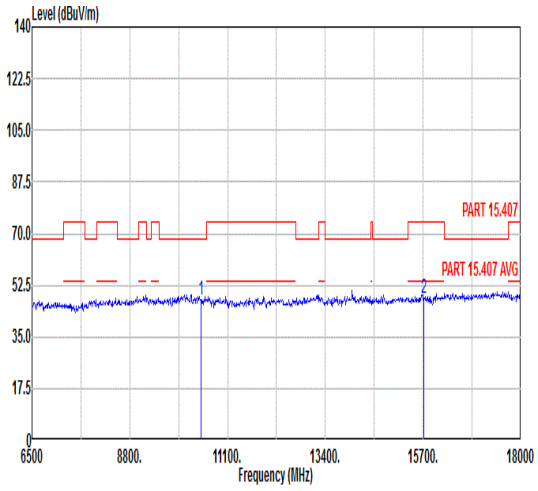
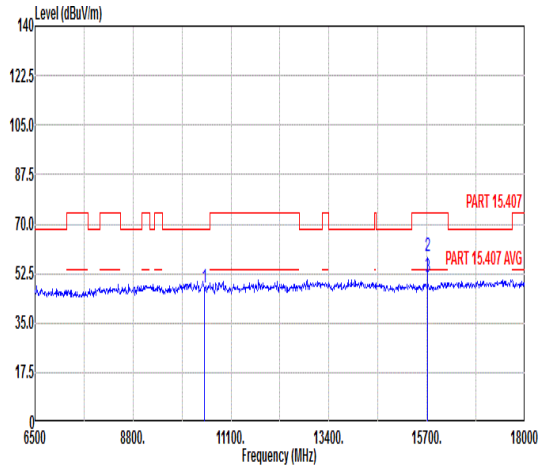
Mode	9	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11400.00 49.78 74.00 -24.22 61.67 39.08 12.81 63.78 --- --- Peak 2 17100.00 49.26 68.30 -19.04 56.14 42.41 15.62 64.91 --- --- Peak	 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 48.27 74.00 -25.73 60.16 39.08 12.81 63.78 --- --- Peak 2 17100.00 57.50 68.30 -10.80 64.38 42.41 15.62 64.91 100 88 Peak

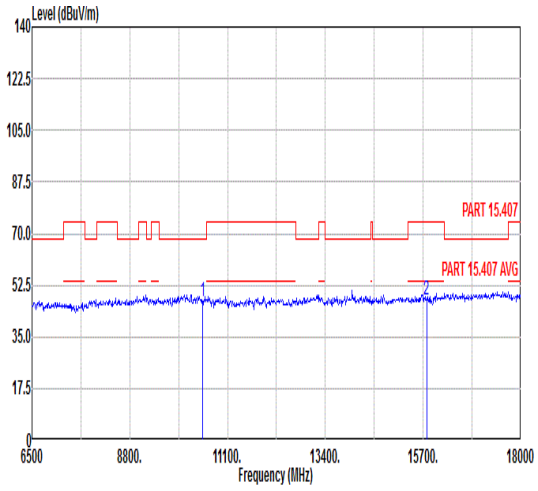
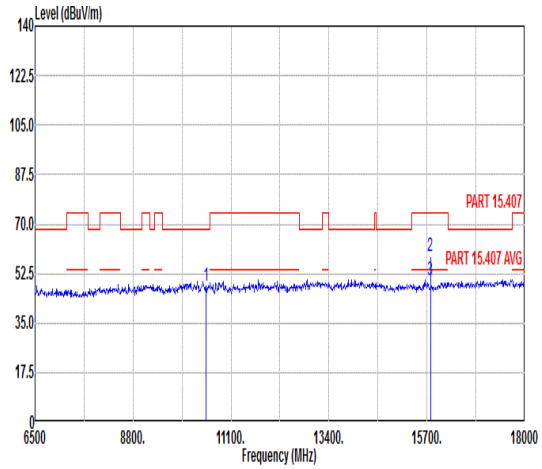
Mode	10	
	Band Edge	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5148.32 61.28 74.00 -12.72 49.64 36.58 8.53 33.47 286 247 PEAK	 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 5180.00 106.95 ------ ------ 95.27 36.55 8.59 33.46 286 247 PEAK
Avg	 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 5149.76 48.88 54.00 -5.12 37.23 36.58 8.54 33.47 286 247 AVERAGE	 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 5180.00 100.27 ------ ------ 88.59 36.55 8.59 33.46 286 247 AVERAGE

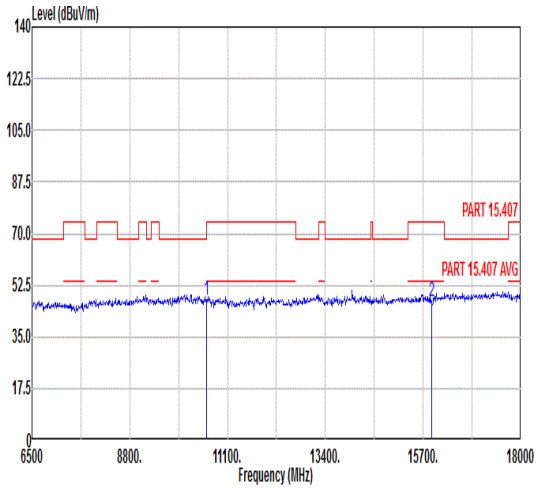
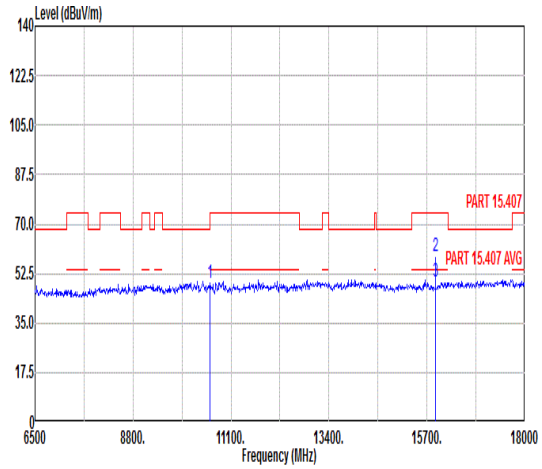
Mode	10	
	Band Edge	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5145.44 64.07 74.00 -9.93 52.43 36.58 8.53 33.47 203 252 PEAK	 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 5180.00 108.97 ------ ------ 97.27 36.55 8.61 33.46 203 252 PEAK
Avg	 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 5149.94 51.67 54.00 -2.33 40.02 36.58 8.54 33.47 203 252 AVERAGE	 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 5180.00 102.91 ------ ------ 91.23 36.55 8.59 33.46 203 252 AVERAGE

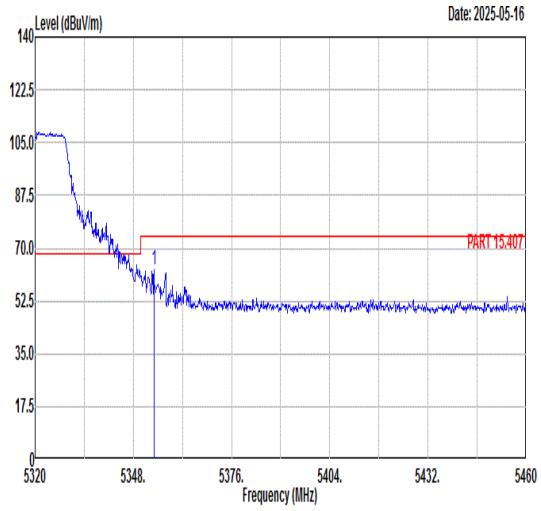
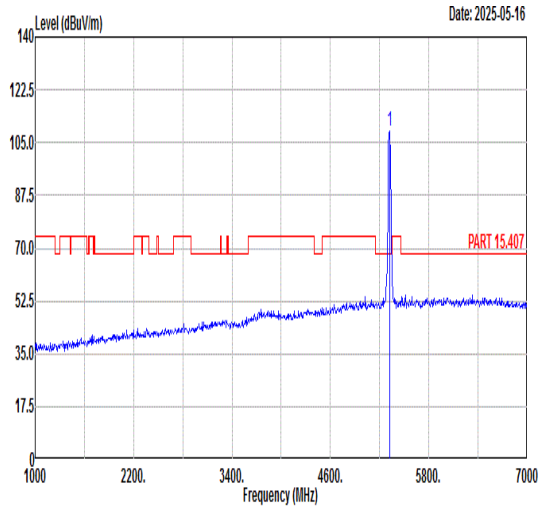
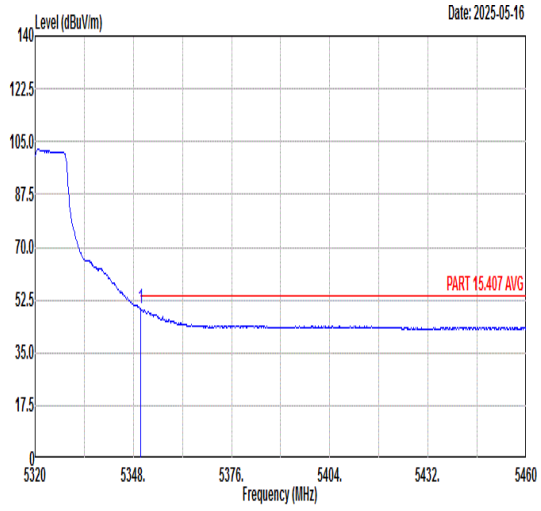
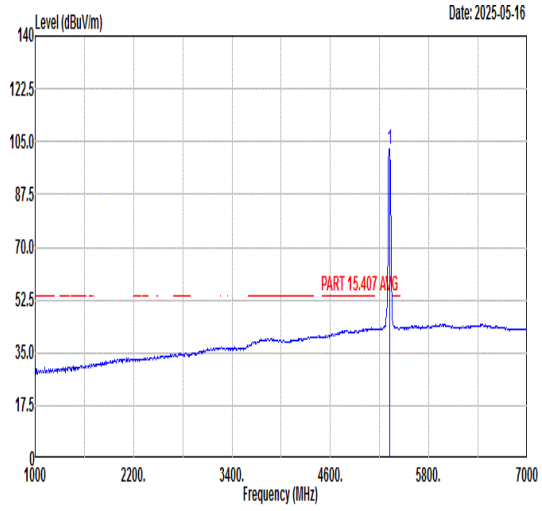
Mode	10	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10360.00 47.48 68.30 -20.82 60.71 38.47 12.06 63.76 --- --- Peak 2 15540.00 49.13 74.00 -24.87 57.61 41.32 14.58 64.38 --- --- Peak	 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 46.93 68.30 -21.37 60.16 38.47 12.06 63.76 --- --- Peak 2 15540.00 56.33 74.00 -17.67 64.81 41.32 14.58 64.38 100 155 Peak 3 15540.00 47.19 54.00 -6.81 55.67 41.32 14.58 64.38 100 155 Average

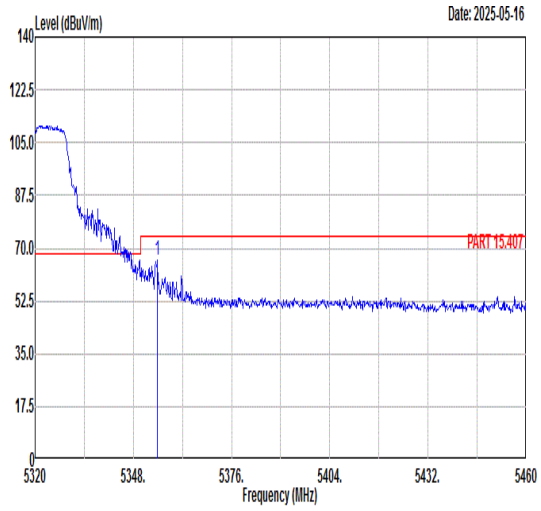
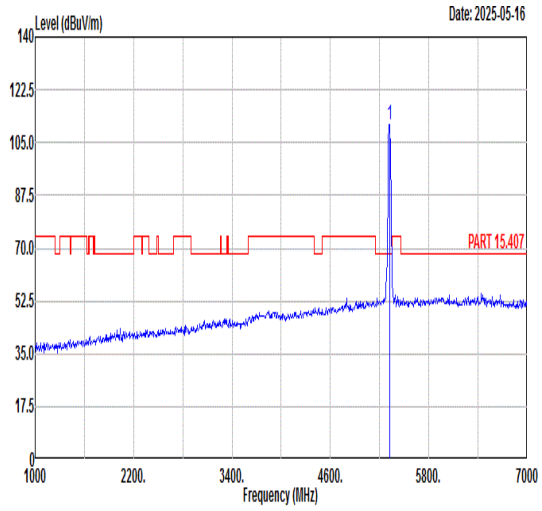
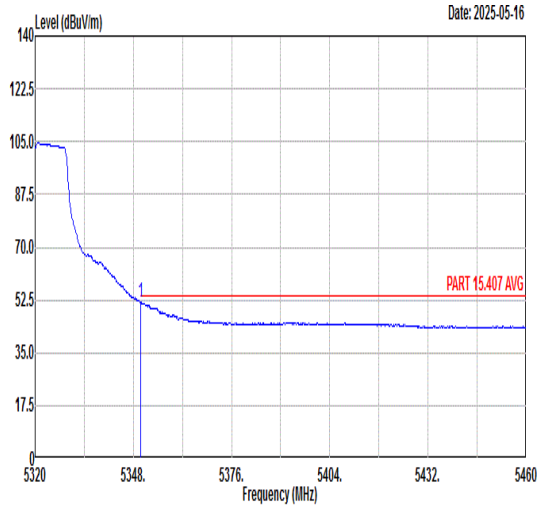
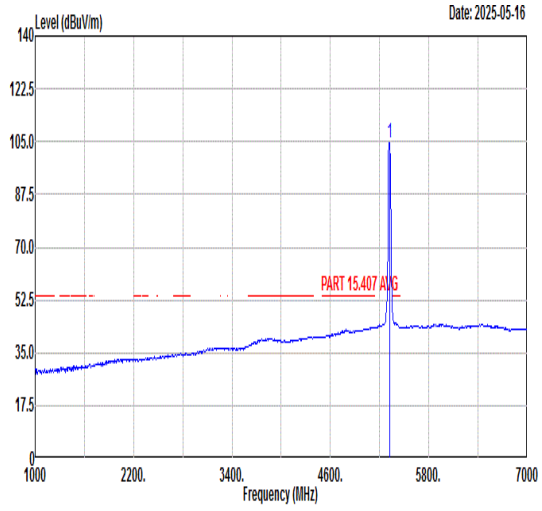
Mode	11	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10440.00 48.75 68.30 -19.55 61.86 38.49 12.12 63.72 --- --- Peak 2 15660.00 59.15 74.00 -14.85 67.57 41.40 14.64 64.46 153 325 Peak 3 15660.00 51.05 54.00 -2.95 59.47 41.40 14.64 64.46 153 325 Average	 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 49.41 68.30 -18.89 62.52 38.49 12.12 63.72 --- --- Peak 2 15660.00 60.07 74.00 -13.93 68.49 41.40 14.64 64.46 100 159 Peak 3 15660.00 51.67 54.00 -2.33 60.09 41.40 14.64 64.46 100 159 Average

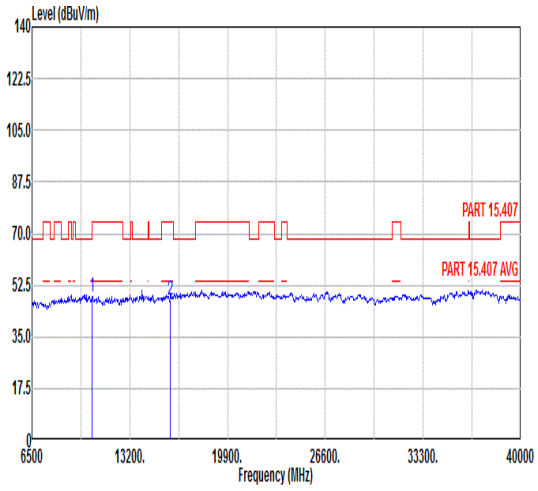
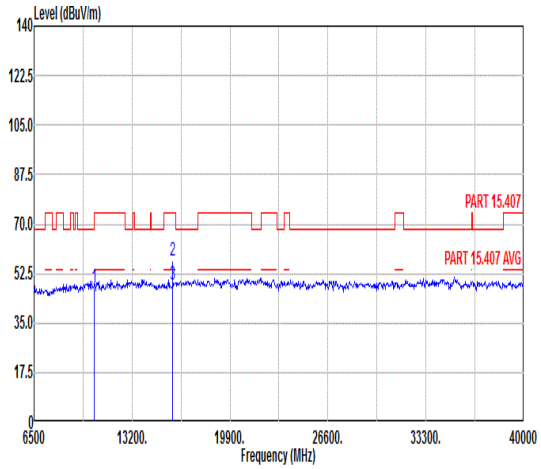
Mode	12	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 47.81 68.30 -20.49 60.87 38.50 12.15 63.71 --- --- Peak 2 15720.00 48.06 74.00 -25.94 56.47 41.43 14.66 64.50 --- --- Peak	 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 47.80 68.30 -20.50 60.86 38.50 12.15 63.71 --- --- Peak 2 15720.00 58.48 74.00 -15.52 66.89 41.43 14.66 64.50 100 169 Peak 3 15720.00 51.38 54.00 -2.62 59.79 41.43 14.66 64.50 100 169 Average

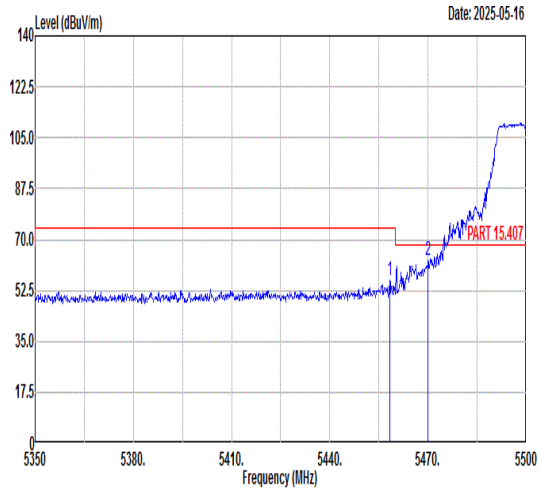
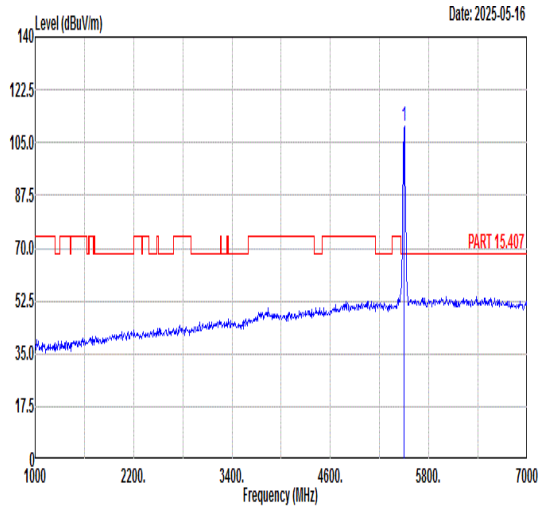
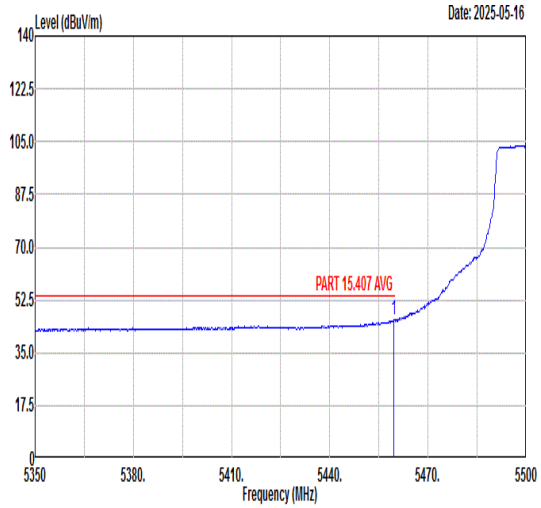
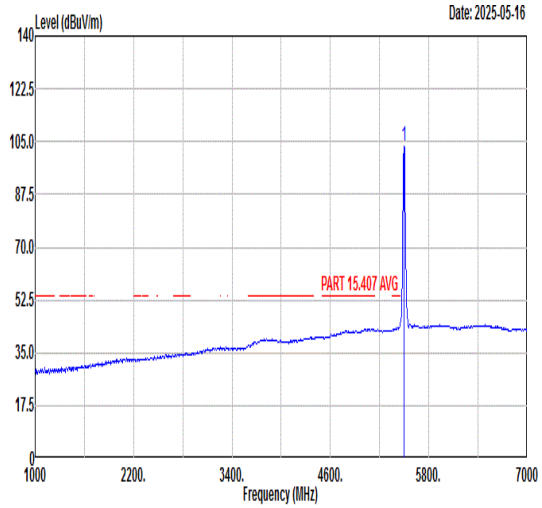
Mode	13	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT20_CH52_5280MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 46.92 68.30 -21.38 59.93 38.50 12.18 63.69 --- --- Peak 2 15780.00 47.66 74.00 -26.34 56.05 41.47 14.69 64.55 --- --- Peak	 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 48.17 68.30 -20.13 61.18 38.50 12.18 63.69 --- --- Peak 2 15780.00 58.51 74.00 -15.49 66.90 41.47 14.69 64.55 100 169 Peak 3 15780.00 50.05 54.00 -3.95 58.44 41.47 14.69 64.55 100 169 Average

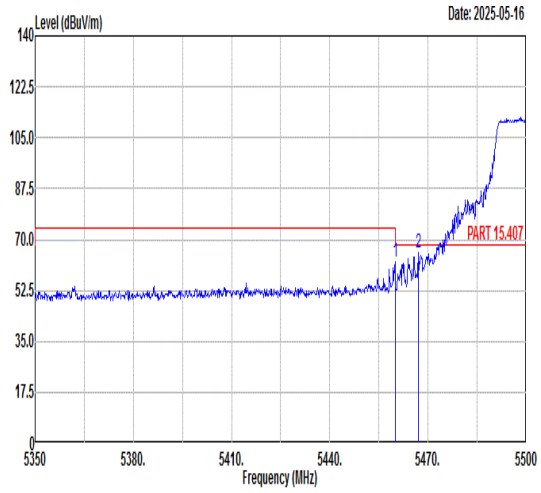
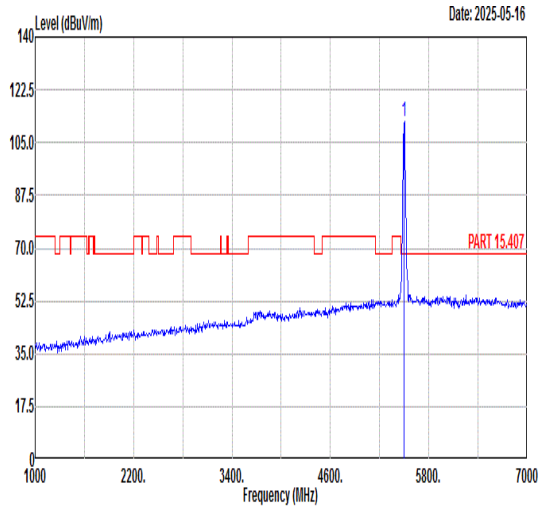
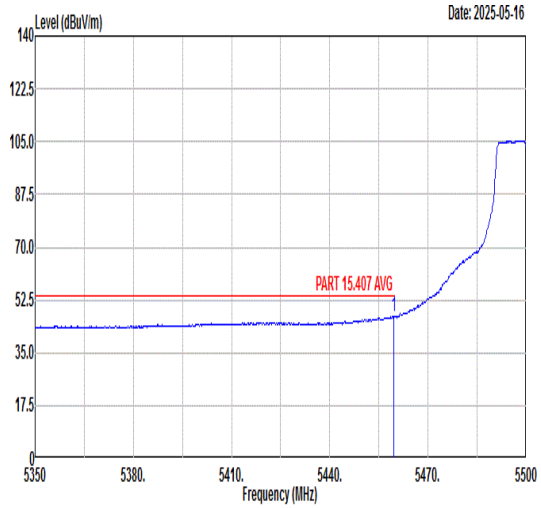
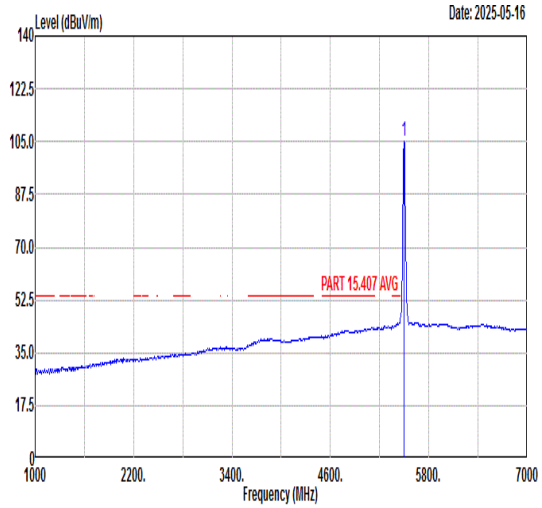
Mode	14	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT20_CH60_5300MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 47.69 74.00 -26.31 60.60 38.52 12.23 63.66 --- --- Peak 2 15900.00 46.86 74.00 -27.14 55.20 41.54 14.75 64.63 --- --- Peak	 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 49.03 74.00 -24.97 61.94 38.52 12.23 63.66 --- --- Peak 2 15900.00 58.63 74.00 -15.37 66.97 41.54 14.75 64.63 100 184 Peak 3 15900.00 49.48 54.00 -4.52 57.82 41.54 14.75 64.63 100 184 Average

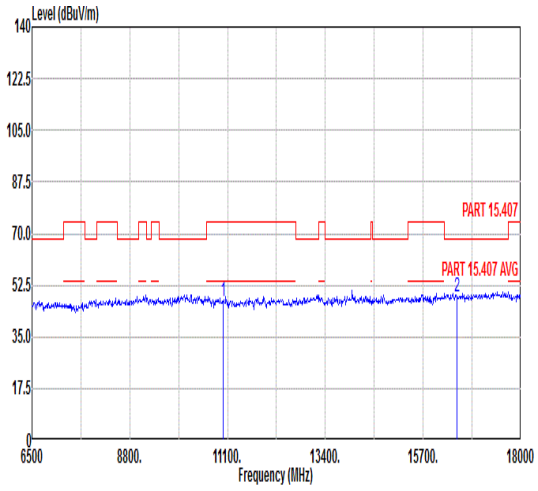
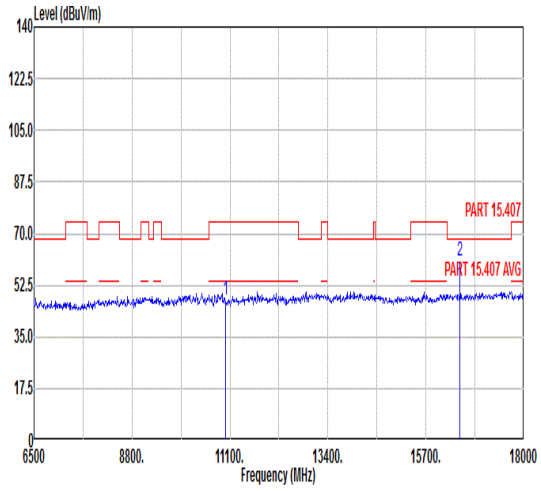
Mode	15	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11n HT20_CH64_5320MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5353.88 62.73 74.00 -11.27 50.36 36.42 9.38 33.43 276 248 PEAK	 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 5320.00 108.57 ------ ------ 96.36 36.44 9.21 33.44 276 248 PEAK
Avg	 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 5350.10 49.41 54.00 -4.59 37.05 36.42 9.37 33.43 276 248 AVERAGE	 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 5320.00 102.51 ------ ------ 90.30 36.44 9.21 33.44 276 248 AVERAGE

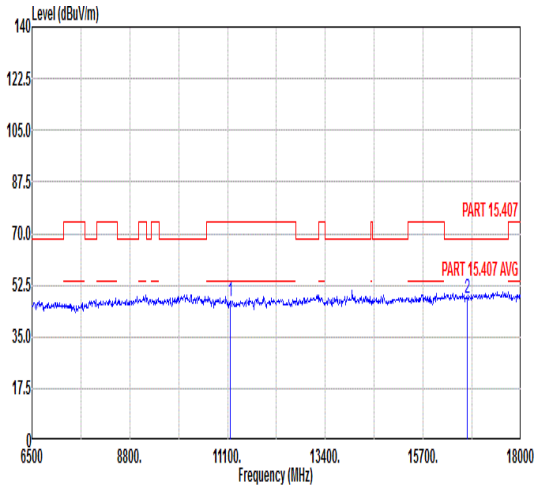
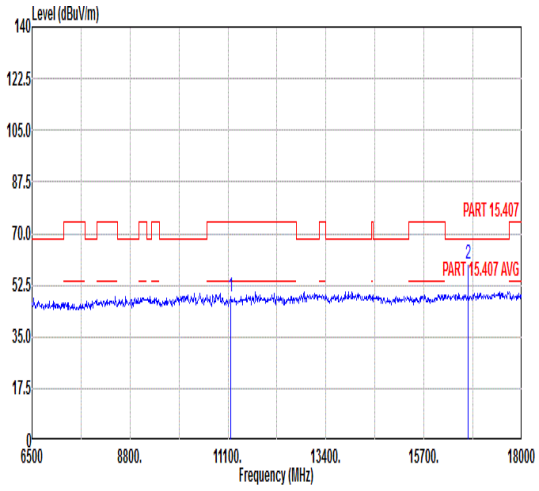
Mode	15	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11n HT20_CH64_5320MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5354.86 66.27 74.00 -7.73 53.89 36.42 9.39 33.43 200 253 PEAK	 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 5320.00 111.14 ------ ------ 98.89 36.44 9.24 33.43 200 253 PEAK
Avg	 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 5350.10 51.79 54.00 -2.21 39.43 36.42 9.37 33.43 200 253 AVERAGE	 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 5320.00 104.48 ------ ------ 92.29 36.45 9.18 33.44 200 253 AVERAGE

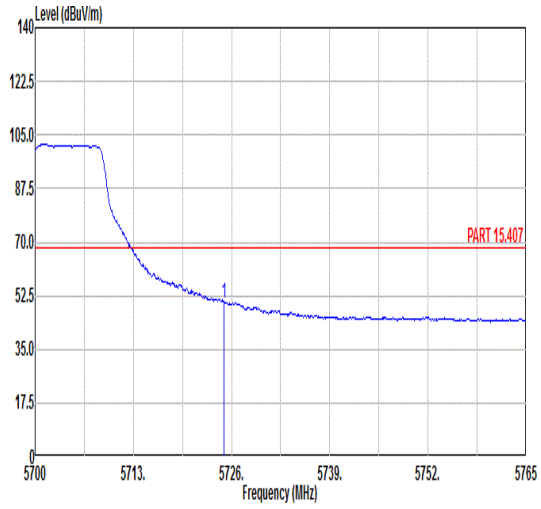
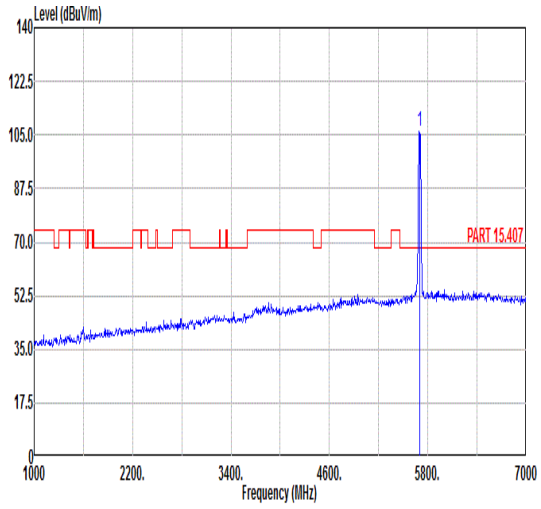
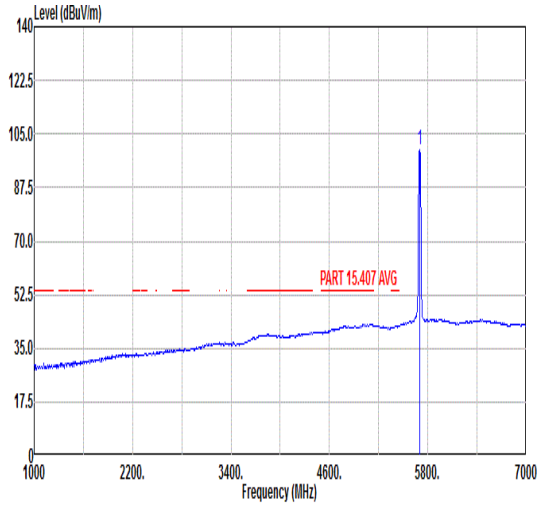
Mode	15	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT20_CH64_5320MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 48.40 74.00 -25.60 61.25 38.53 12.26 63.64 --- --- Peak 2 15960.00 47.73 74.00 -26.27 56.05 41.58 14.77 64.67 --- --- Peak	 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 47.71 74.00 -26.29 60.56 38.53 12.26 63.64 --- --- Peak 2 15960.00 57.06 74.00 -16.94 65.38 41.58 14.77 64.67 100 187 Peak 3 15960.00 48.67 54.00 -5.33 56.99 41.58 14.77 64.67 100 187 Average

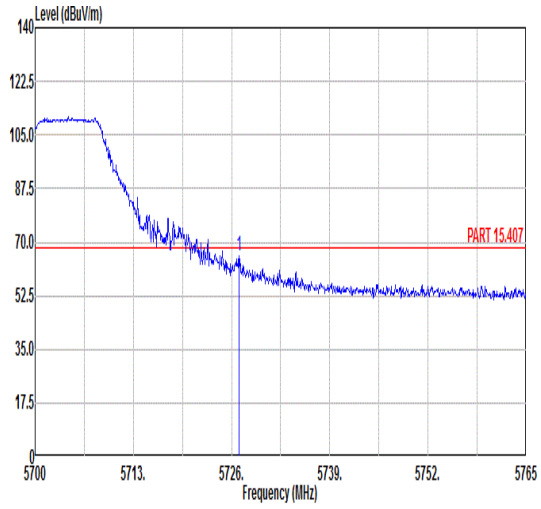
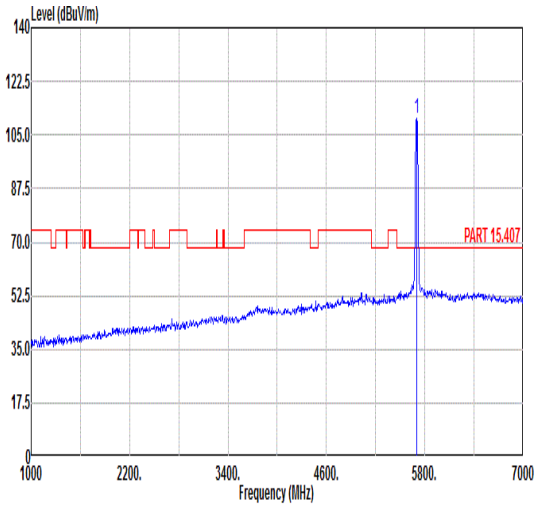
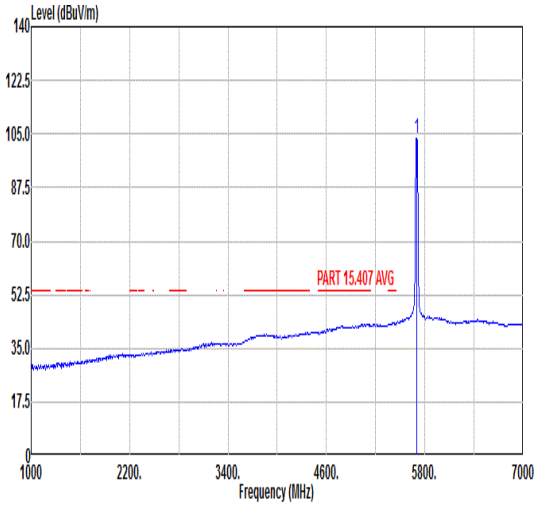
Mode	16	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH100_5500MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5458.30 56.05 74.00 -17.95 43.44 36.33 9.69 33.41 322 243 PEAK 2 5470.00 62.65 68.30 -5.65 50.05 36.32 9.69 33.41 322 243 PEAK	 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 5500.00 110.18 ------ ------ 97.56 36.31 9.71 33.40 322 243 PEAK
Avg	 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 5459.65 46.07 54.00 -7.93 33.46 36.33 9.69 33.41 322 243 AVERAGE	 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 5500.00 103.53 ------ ------ 90.92 36.30 9.71 33.40 322 243 AVERAGE

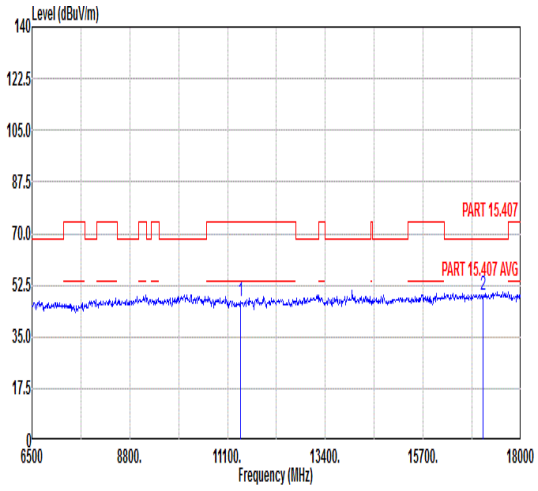
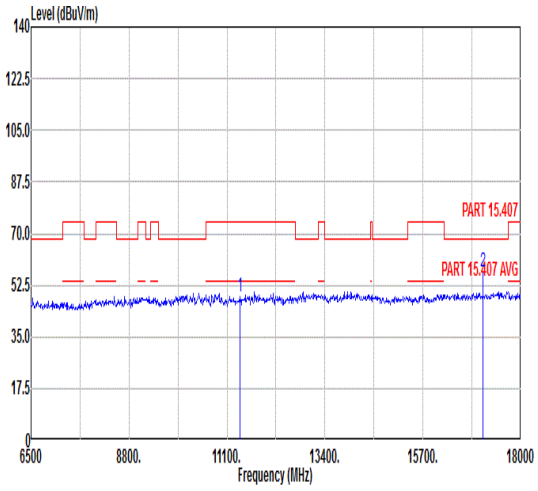
Mode	16	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH100_5500MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5459.95 62.51 74.00 -11.49 49.90 36.33 9.69 33.41 193 255 PEAK 2 5467.00 65.50 68.30 -2.80 52.89 36.33 9.69 33.41 193 255 PEAK	 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 5500.00 111.93 ------ ------ 99.31 36.31 9.71 33.40 193 255 PEAK
Avg	 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 5459.65 47.06 54.00 -6.94 34.45 36.33 9.69 33.41 193 255 AVERAGE	 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 5500.00 105.16 ------ ------ 92.55 36.30 9.71 33.40 193 255 AVERAGE

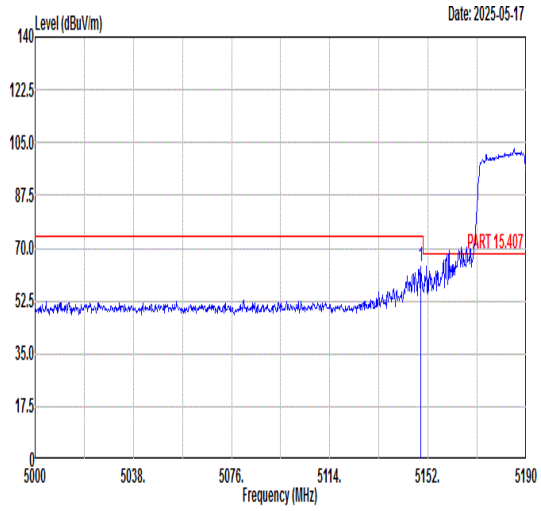
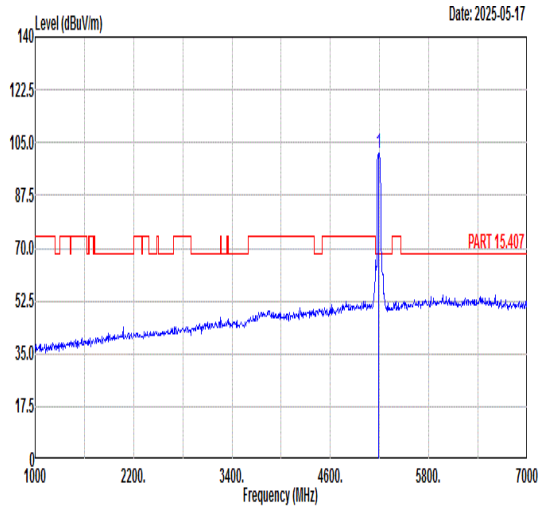
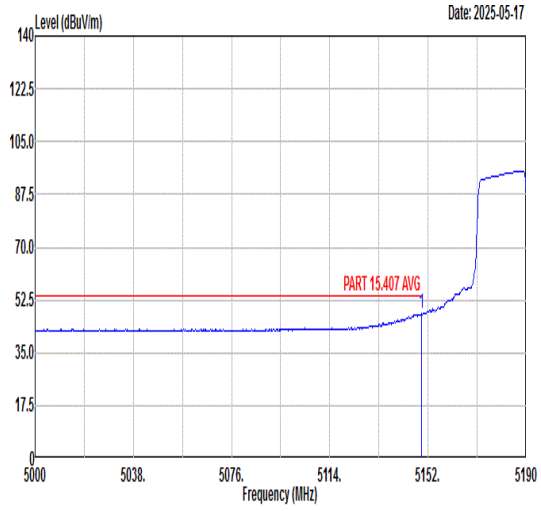
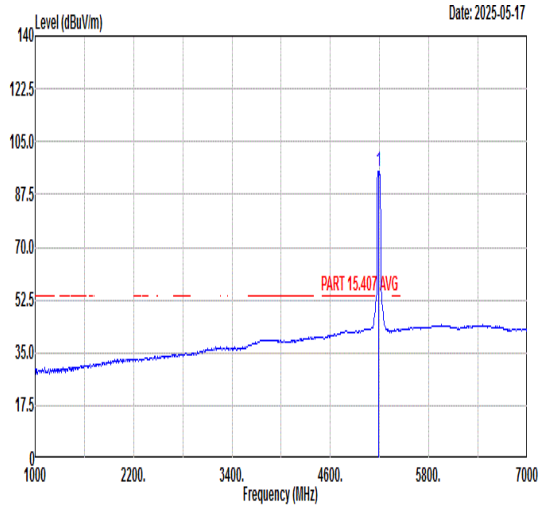
Mode	16	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT20_CH100_5500MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11000.00 47.26 74.00 -26.74 59.64 38.60 12.52 63.50 --- --- Peak 2 16500.00 48.54 68.30 -19.76 56.17 41.95 15.17 64.75 --- --- Peak	 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 47.38 74.00 -26.62 59.76 38.60 12.52 63.50 --- --- Peak 2 16500.00 60.68 68.30 -7.62 68.31 41.95 15.17 64.75 100 189 Peak

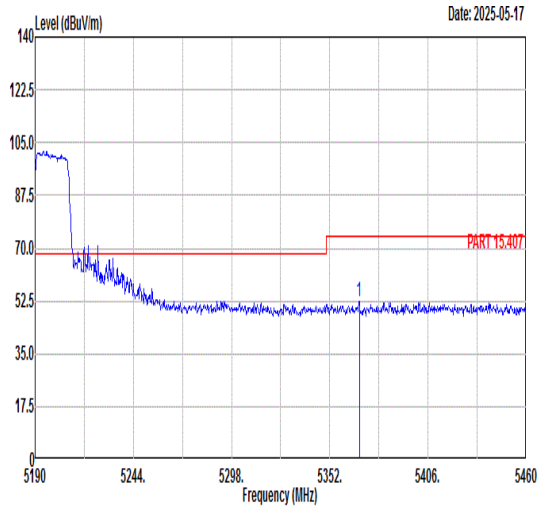
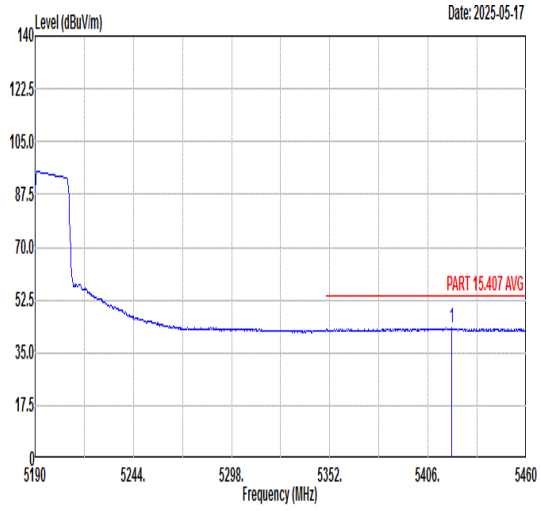
Mode	17	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT20_CH116_5580MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11160.00 46.99 74.00 -27.01 59.17 38.79 12.64 63.61 --- --- Peak 2 16740.00 48.01 68.30 -20.29 55.31 42.12 15.35 64.77 --- --- Peak	 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 11160.00 48.37 74.00 -25.63 60.55 38.79 12.64 63.61 --- --- Peak 2 16740.00 59.46 68.30 -8.84 66.76 42.12 15.35 64.77 100 184 Peak

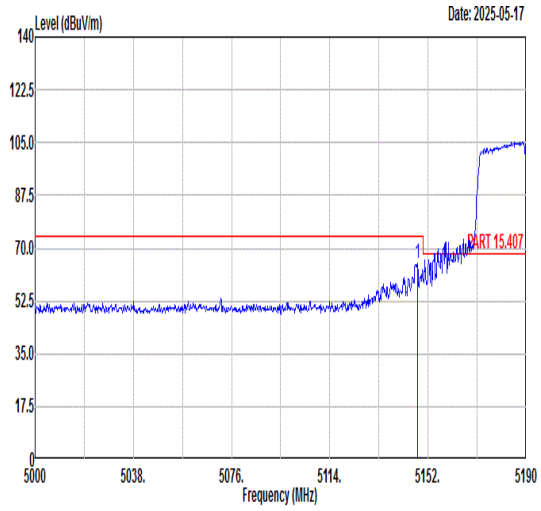
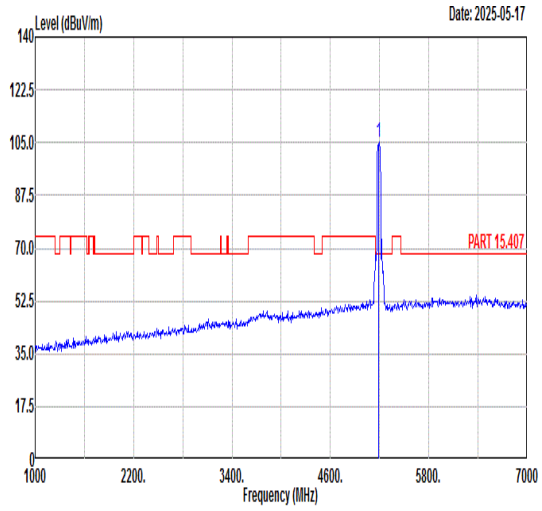
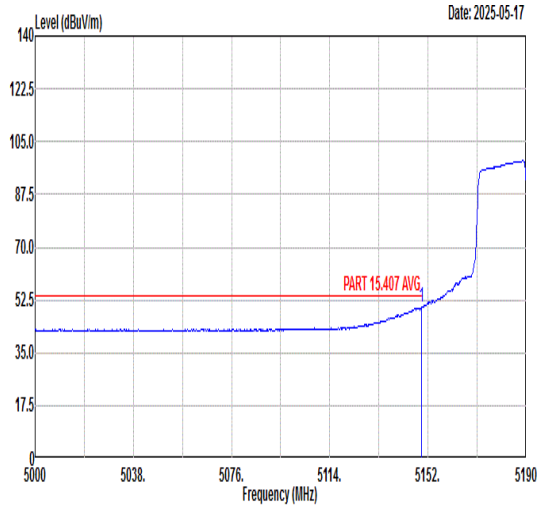
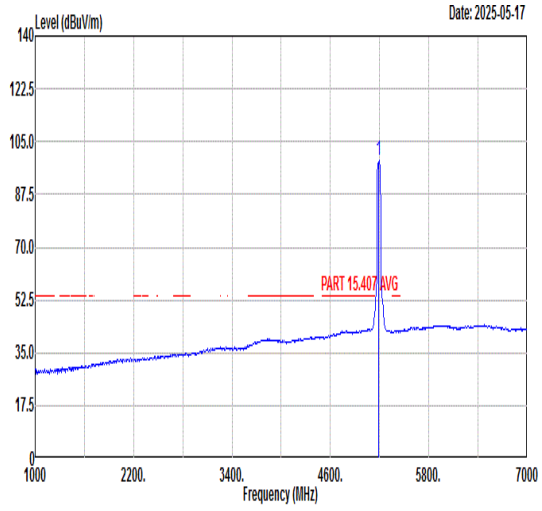
Mode	18	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH140_5700MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5725.03 50.28 68.30 -18.02 37.18 36.53 10.02 33.45 300 241 PEAK	 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 5700.00 106.13 ------ ------ 93.13 36.49 9.95 33.44 300 241 PEAK
Avg	Blank	 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 5700.00 99.64 ------ ------ 86.62 36.50 9.96 33.44 300 241 AVERAGE

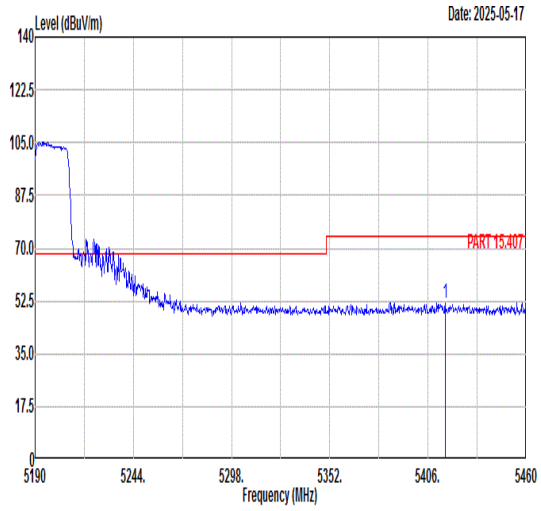
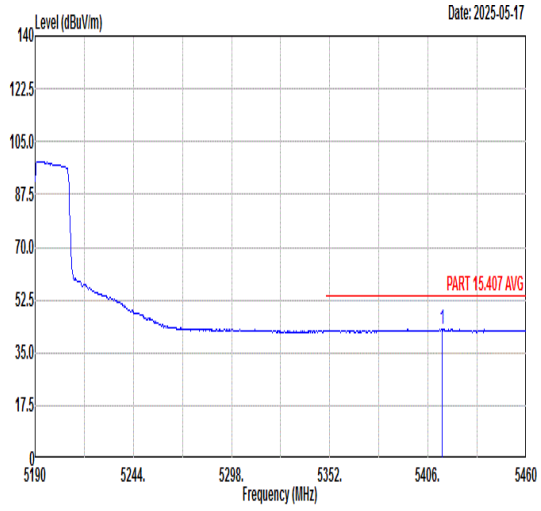
Mode	18	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH140_5700MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5726.98 65.73 68.30 -2.57 52.63 36.53 10.02 33.45 200 255 PEAK	 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 5700.00 110.60 ------ ------ 97.58 36.50 9.96 33.44 200 255 PEAK
Avg	Blank	 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 5700.00 103.72 ------ ------ 90.70 36.50 9.96 33.44 200 255 AVERAGE

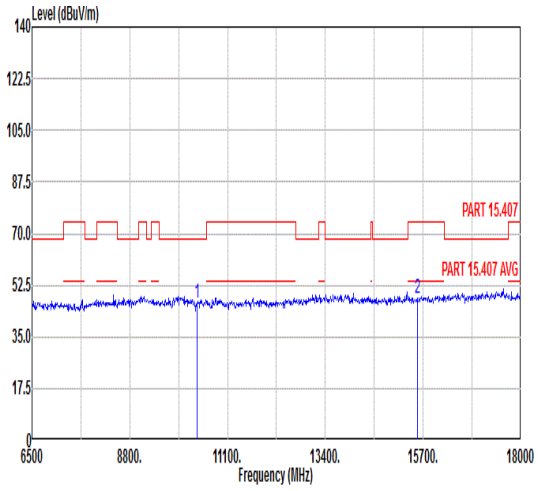
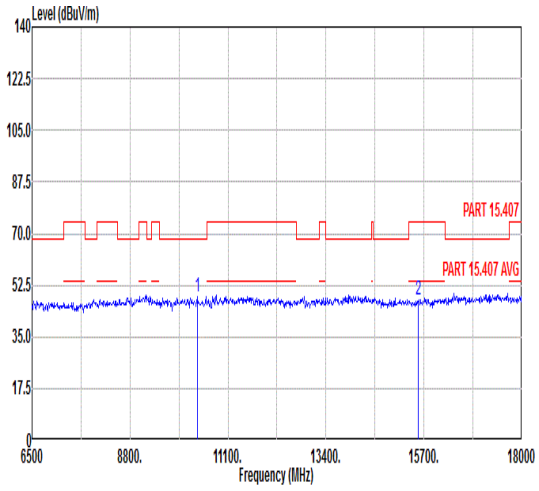
Mode	18	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT20_CH140_5700MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11400.00 46.94 74.00 -27.06 58.83 39.08 12.81 63.78 --- --- Peak 2 17100.00 49.13 68.30 -19.17 56.01 42.41 15.62 64.91 --- --- Peak	 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 48.75 74.00 -25.25 60.64 39.08 12.81 63.78 --- --- Peak 2 17100.00 57.22 68.30 -11.08 64.10 42.41 15.62 64.91 100 195 Peak

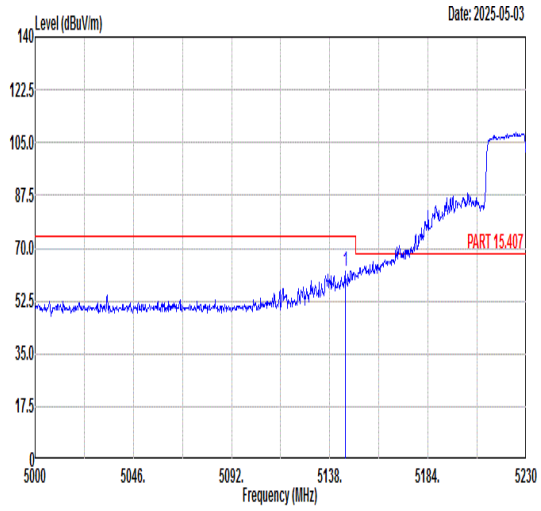
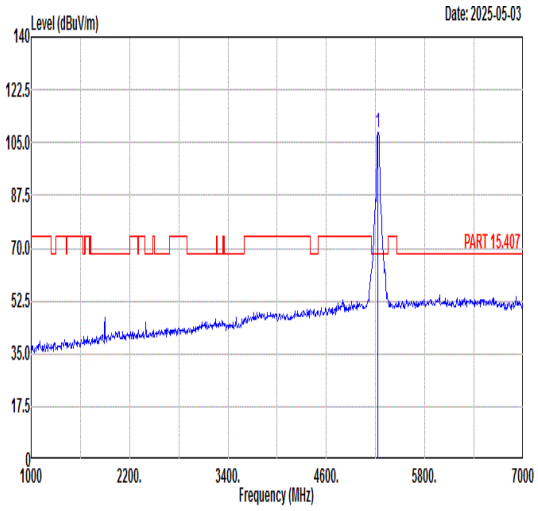
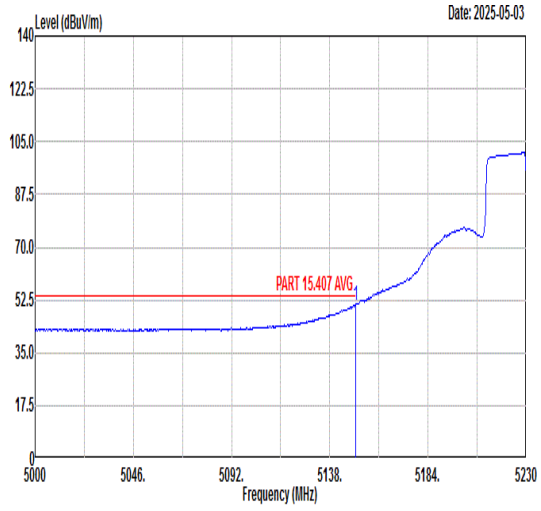
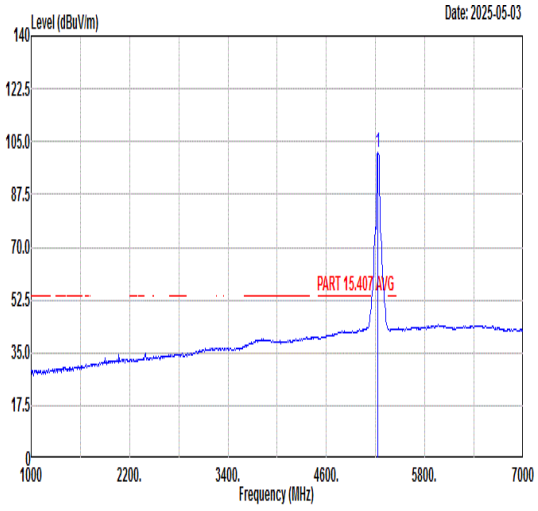
Mode	19	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.15 63.70 74.00 -10.30 52.06 36.58 8.53 33.47 300 245 PEAK	 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 5190.00 101.44 ------ ------ 89.74 36.55 8.61 33.46 300 245 PEAK
Avg	 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 5149.53 47.84 54.00 -6.16 36.20 36.58 8.53 33.47 300 245 AVERAGE	 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 5190.00 95.25 ------ ------ 83.55 36.55 8.61 33.46 300 245 AVERAGE

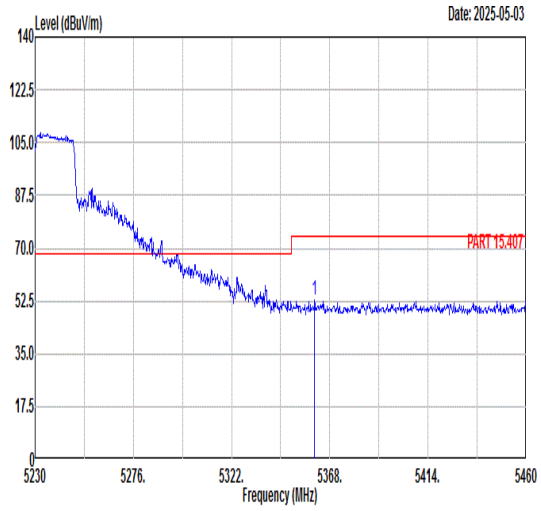
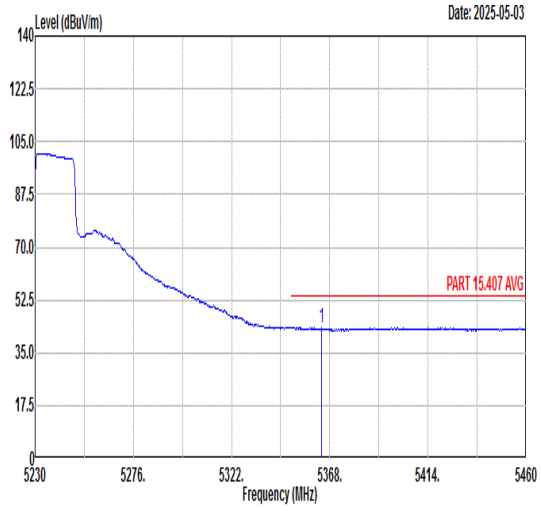
Mode	19	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5368.20 52.12 74.00 -21.88 39.68 36.41 9.46 33.43 300 245 PEAK	Blank
Avg	 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 5418.96 43.16 54.00 -10.84 30.55 36.36 9.67 33.42 300 245 AVERAGE	Blank

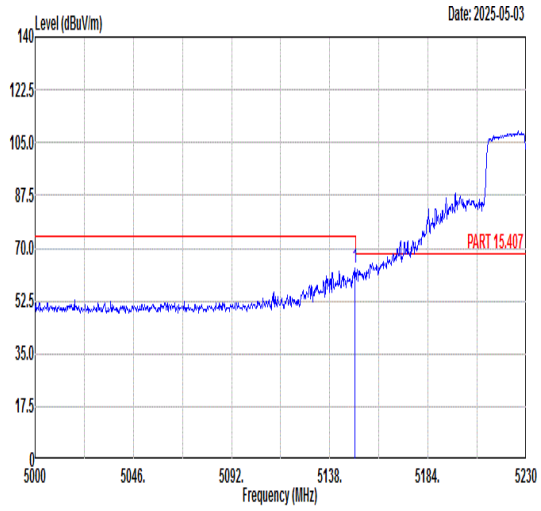
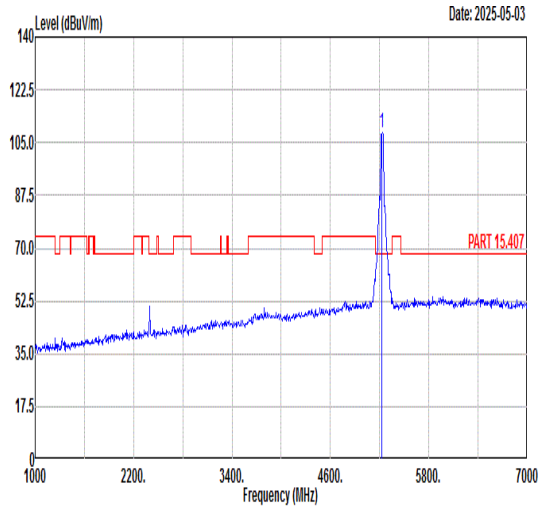
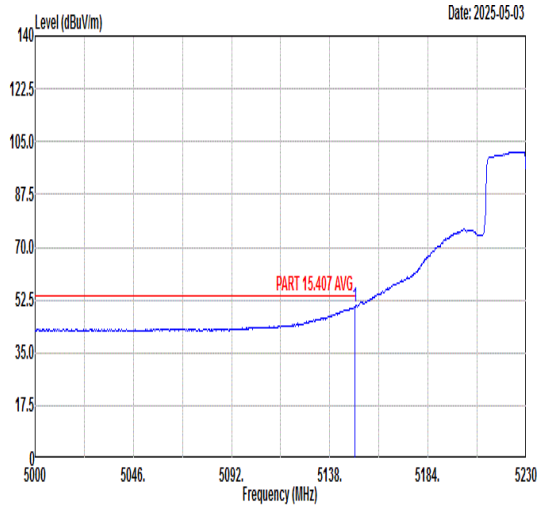
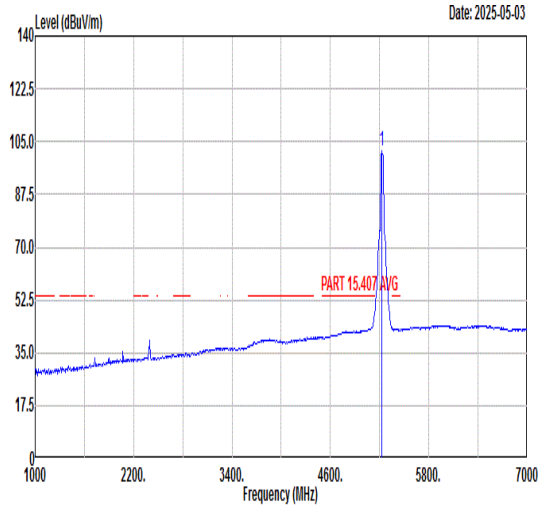
Mode	19	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5147.82 65.09 74.00 -8.91 53.45 36.58 8.53 33.47 200 257 PEAK	 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 5190.00 104.87 ------ ------ 93.17 36.54 8.62 33.46 200 257 PEAK
Avg	 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 5149.53 50.14 54.00 -3.86 38.50 36.58 8.53 33.47 200 257 AVERAGE	 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 5190.00 98.53 ------ ------ 86.83 36.54 8.62 33.46 200 257 AVERAGE

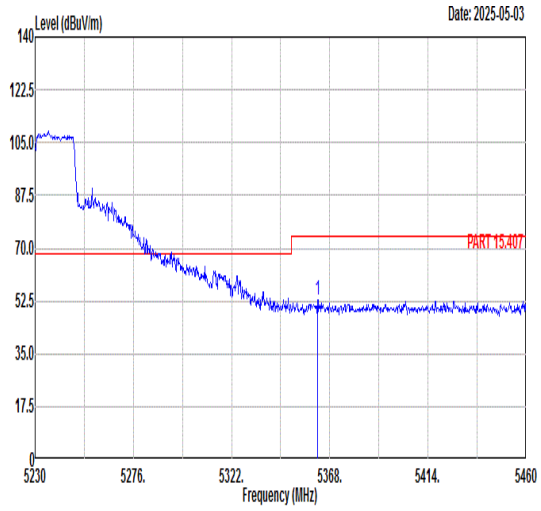
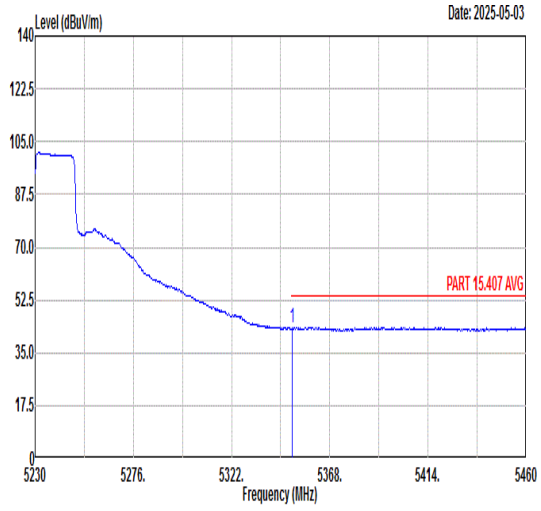
Mode	19	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5415.45 51.93 74.00 -22.07 39.32 36.37 9.66 33.42 200 257 PEAK	Blank
Avg	 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 5413.83 42.82 54.00 -11.18 30.21 36.37 9.66 33.42 200 257 AVERAGE	Blank

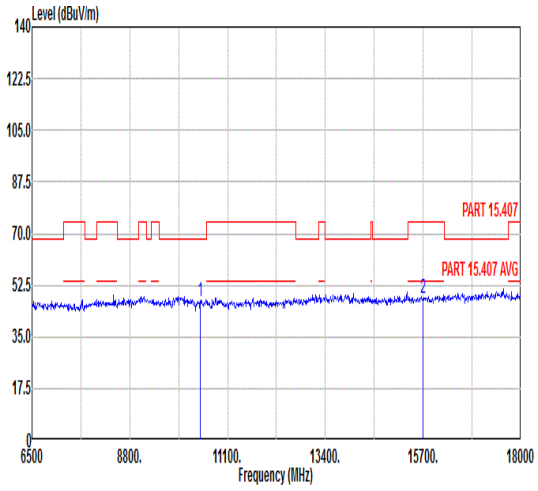
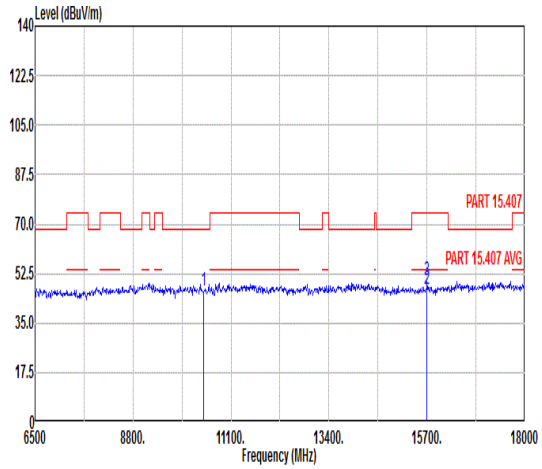
Mode	19	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10380.00 46.36 68.30 -21.94 59.55 38.48 12.08 63.75 --- --- Peak 2 15570.00 48.04 74.00 -25.96 56.50 41.34 14.60 64.40 --- --- Peak	 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 10380.00 48.43 68.30 -19.87 61.62 38.48 12.08 63.75 --- --- Peak 2 15570.00 47.55 74.00 -26.45 56.01 41.34 14.60 64.40 --- --- Peak

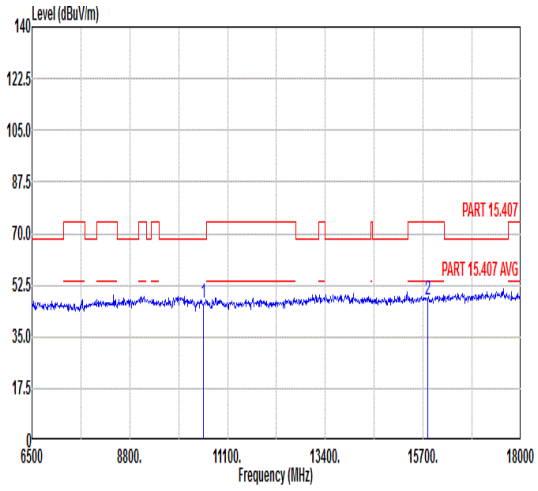
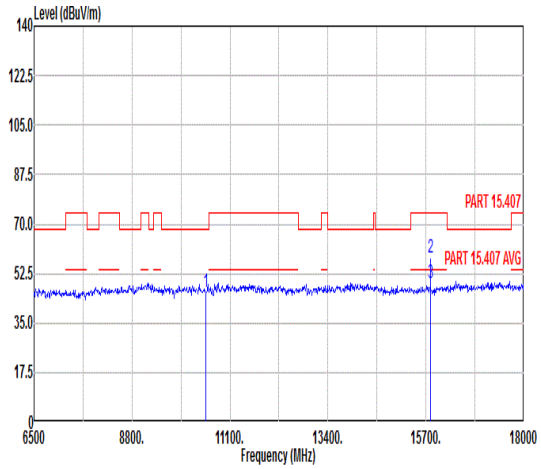
Mode	20	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5145.13 62.34 74.00 -11.66 50.70 36.58 8.53 33.47 301 270 PEAK	 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 5230.00 108.50 ------ ------ 96.67 36.51 8.77 33.45 301 270 PEAK
Avg	 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 5149.96 50.91 54.00 -3.09 39.26 36.58 8.54 33.47 301 270 AVERAGE	 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 5230.00 101.38 ------ ------ 89.57 36.52 8.74 33.45 301 270 AVERAGE

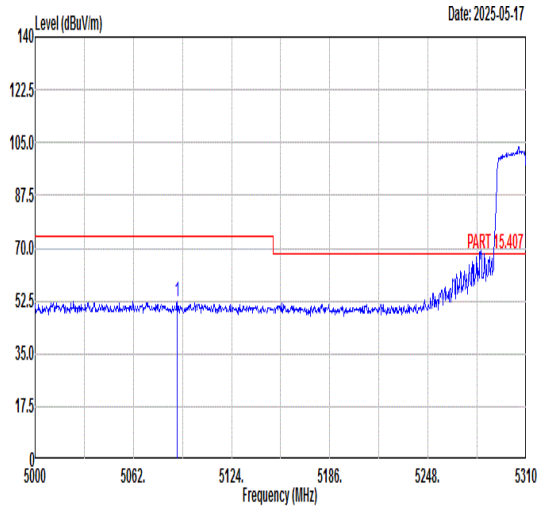
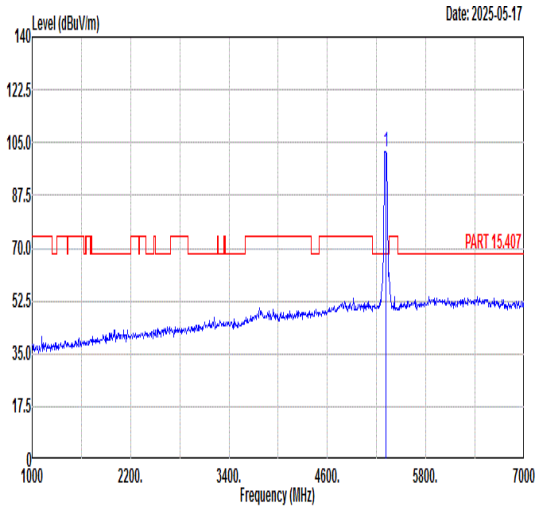
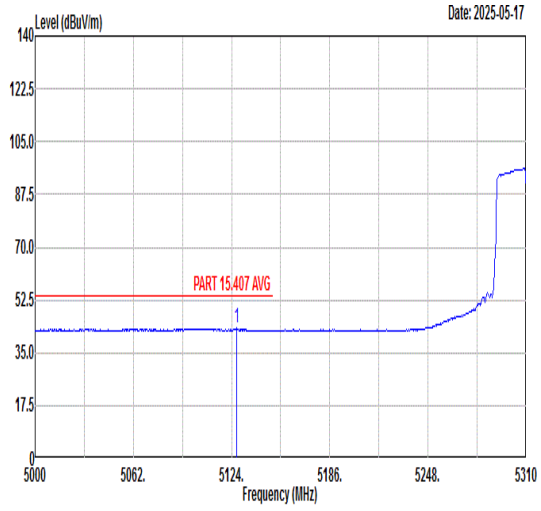
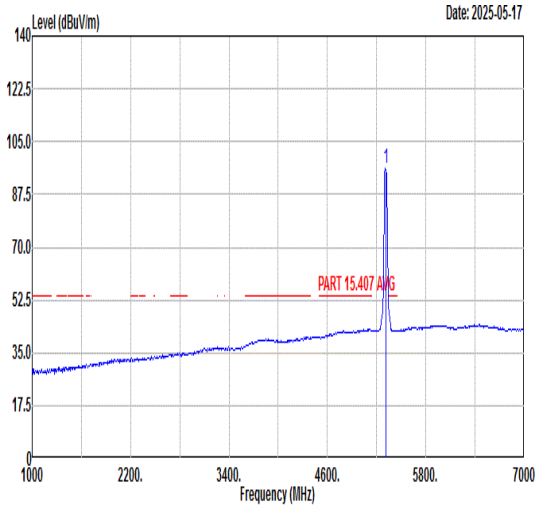
Mode	20	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5360.87 52.79 74.00 -21.21 40.39 36.41 9.42 33.43 301 270 PEAK	Blank
Avg	 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 5364.09 43.36 54.00 -10.64 30.94 36.41 9.44 33.43 301 270 AVERAGE	Blank

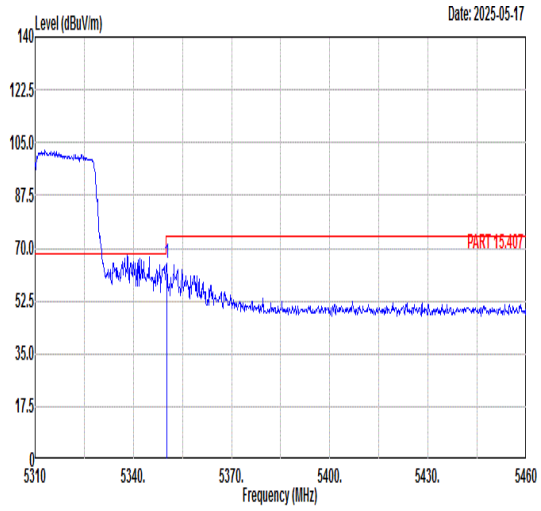
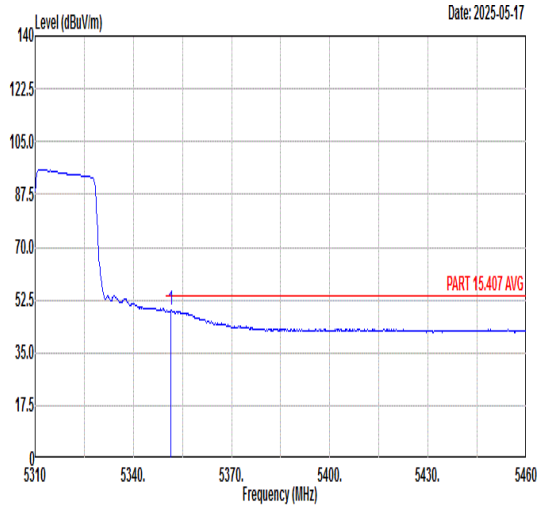
Mode	20	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.73 63.49 74.00 -10.51 51.84 36.58 8.54 33.47 100 261 PEAK	 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 5230.00 108.14 ------ ------ 96.31 36.51 8.77 33.45 100 261 PEAK
Avg	 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 5149.73 50.35 54.00 -3.65 38.70 36.58 8.54 33.47 100 261 AVERAGE	 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 5230.00 101.74 ------ ------ 89.93 36.52 8.74 33.45 100 261 AVERAGE

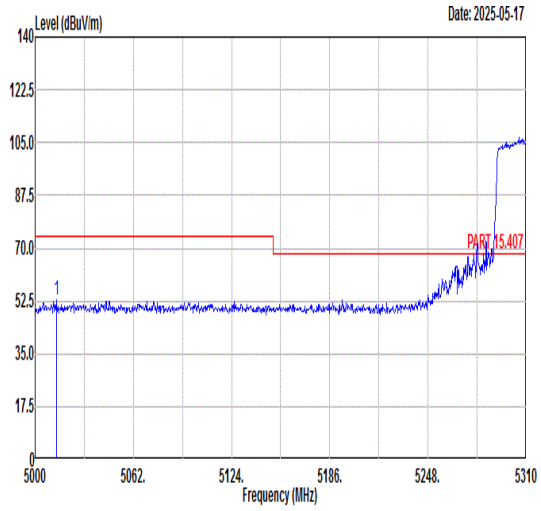
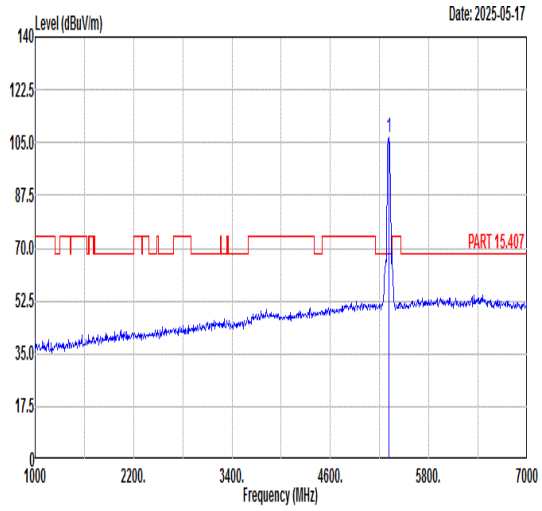
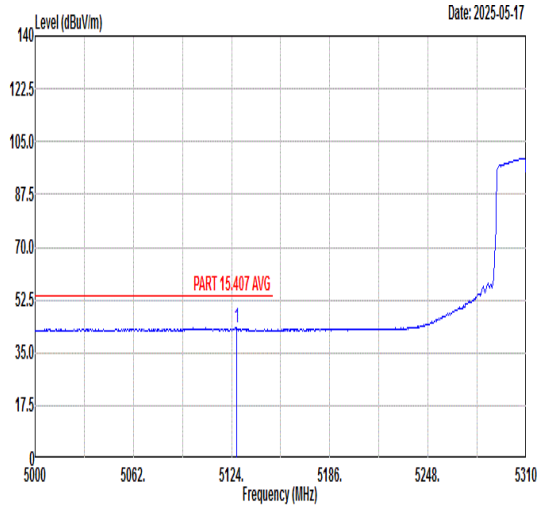
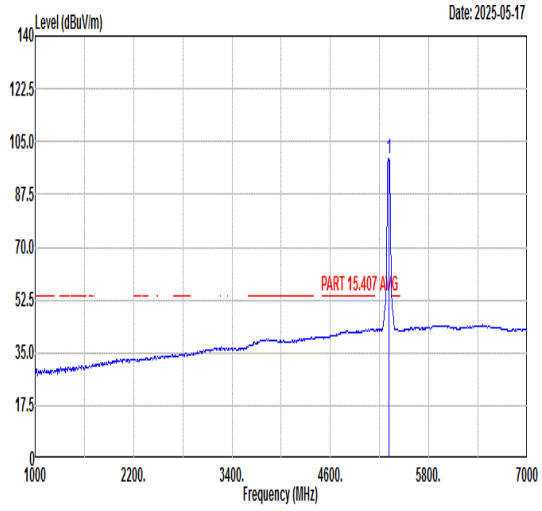
Mode	20	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5362.25 52.83 74.00 -21.17 40.42 36.41 9.43 33.43 100 261 PEAK	Blank
Avg	 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 5350.29 43.41 54.00 -10.59 31.05 36.42 9.37 33.43 100 261 AVERAGE	Blank

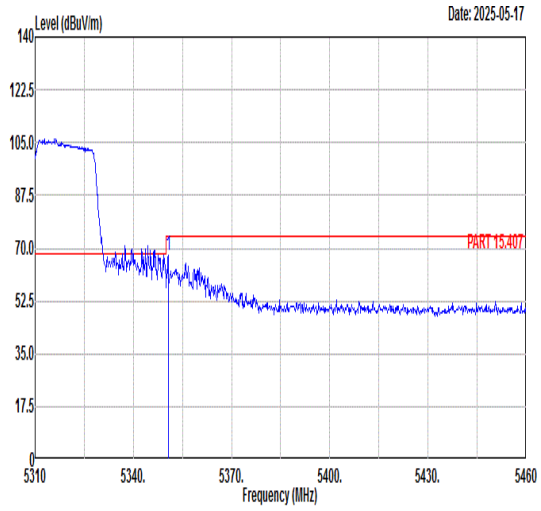
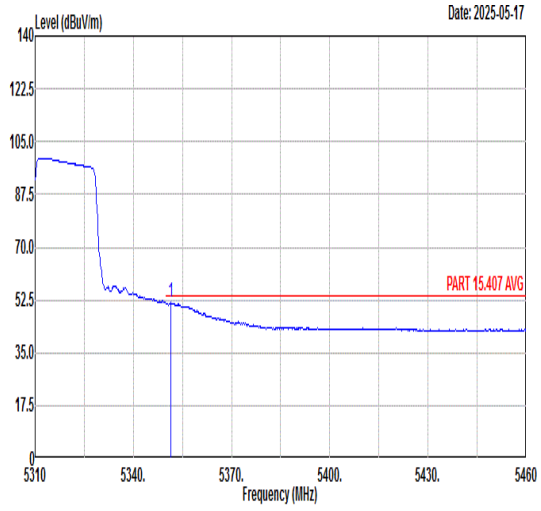
Mode	20	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10460.00 47.03 68.30 -21.27 60.13 38.49 12.13 63.72 --- --- Peak 2 15690.00 47.96 74.00 -26.04 56.38 41.41 14.65 64.48 --- --- Peak	 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 10460.00 46.50 68.30 -21.80 59.60 38.49 12.13 63.72 --- --- Peak 2 15690.00 47.11 74.00 -26.89 55.53 41.41 14.65 64.48 100 170 Peak 3 15690.00 50.44 54.00 -3.56 58.86 41.41 14.65 64.48 100 170 Average

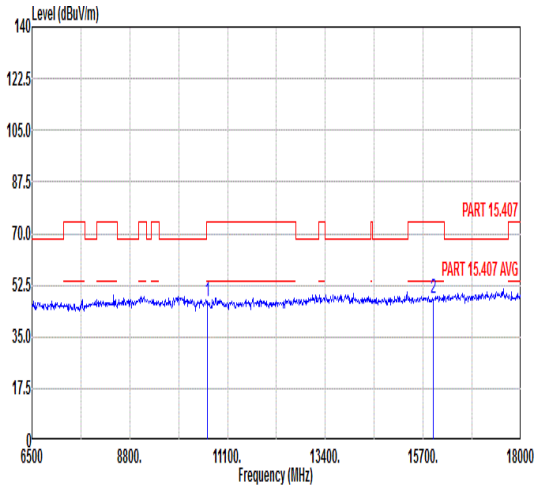
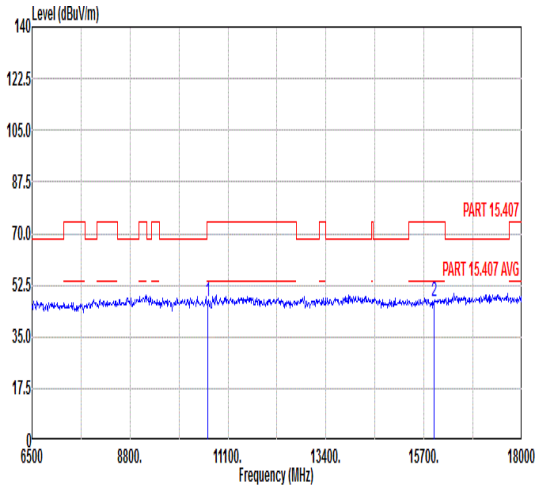
Mode	21	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT40_CH54_5270MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10540.00 46.57 68.30 -21.73 59.55 38.51 12.19 63.68 --- --- Peak 2 15810.00 47.78 74.00 -26.22 56.15 41.49 14.71 64.57 --- --- Peak	 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 10540.00 45.91 68.30 -22.39 58.89 38.51 12.19 63.68 --- --- Peak 2 15810.00 58.16 74.00 -15.84 66.53 41.49 14.71 64.57 100 182 Peak 3 15810.00 49.34 54.00 -4.66 57.71 41.49 14.71 64.57 100 182 Average

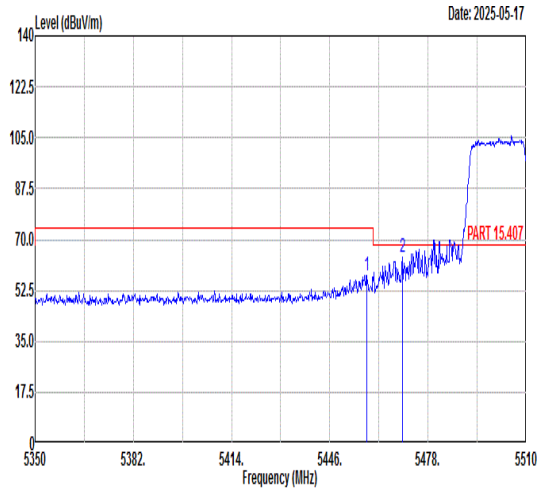
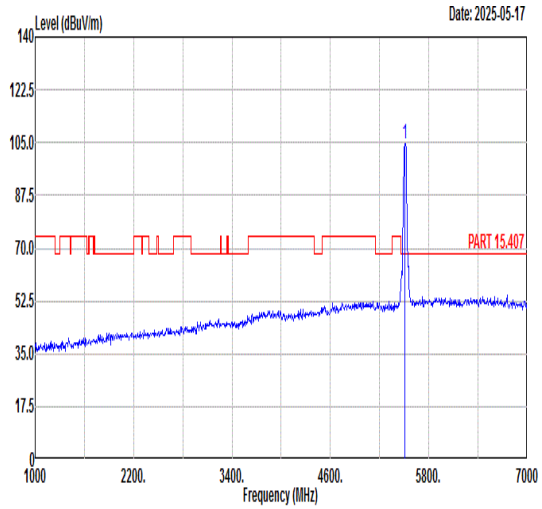
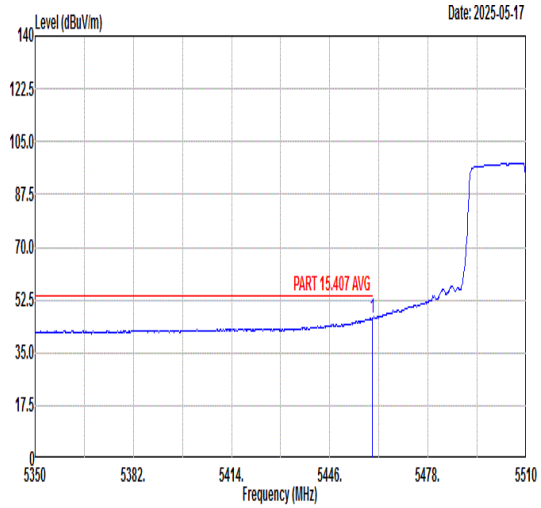
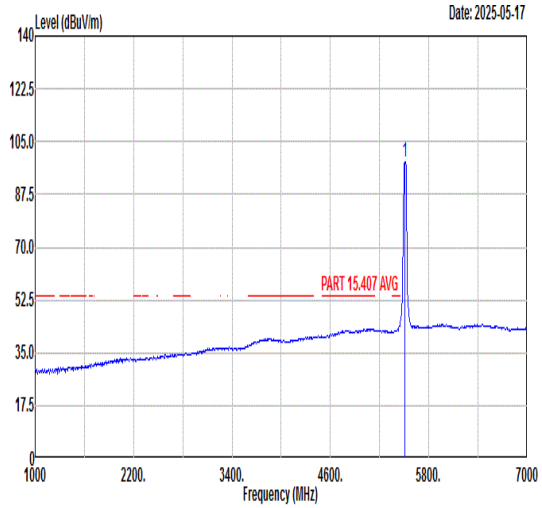
Mode	22	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5089.59 52.46 74.00 -21.54 40.89 36.63 8.42 33.48 300 246 PEAK	 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 5310.00 102.11 ------ ------ 89.92 36.45 9.18 33.44 300 246 PEAK
Avg	 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 5127.41 43.23 54.00 -10.77 31.61 36.60 8.49 33.47 300 246 AVERAGE	 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 5310.00 95.90 ------ ------ 83.74 36.45 9.15 33.44 300 246 AVERAGE

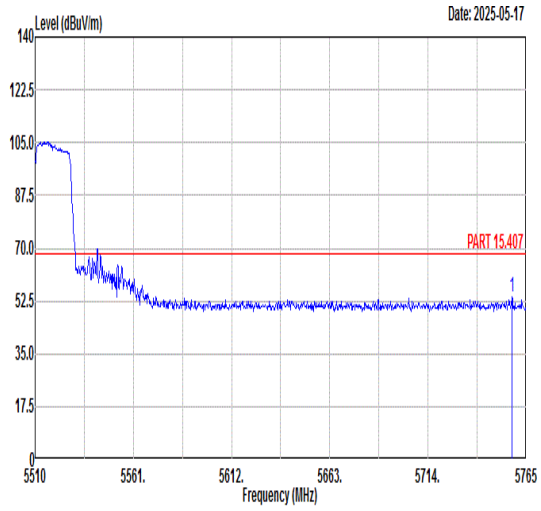
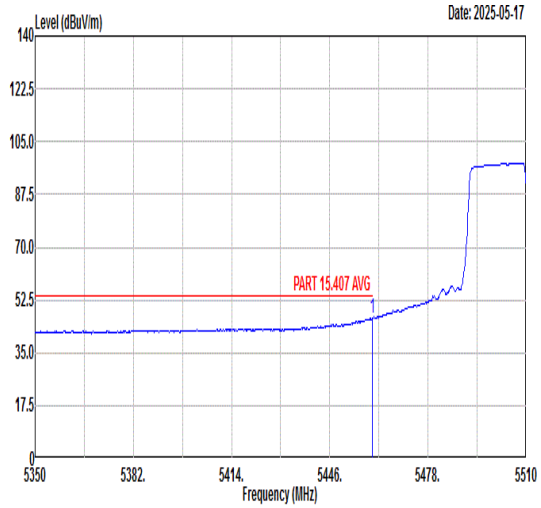
Mode	22	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.20 65.06 74.00 -8.94 52.70 36.42 9.37 33.43 300 246 PEAK	Blank
Avg	 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 5351.55 49.06 54.00 -4.94 36.70 36.42 9.37 33.43 300 246 AVERAGE	Blank

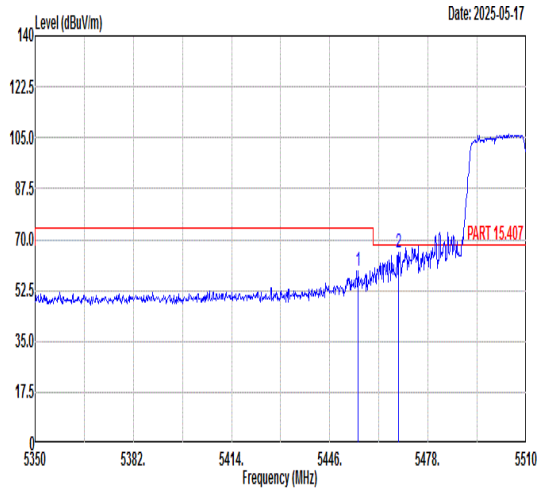
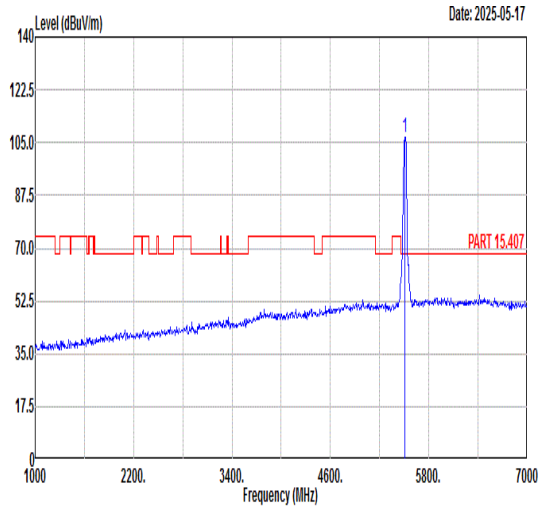
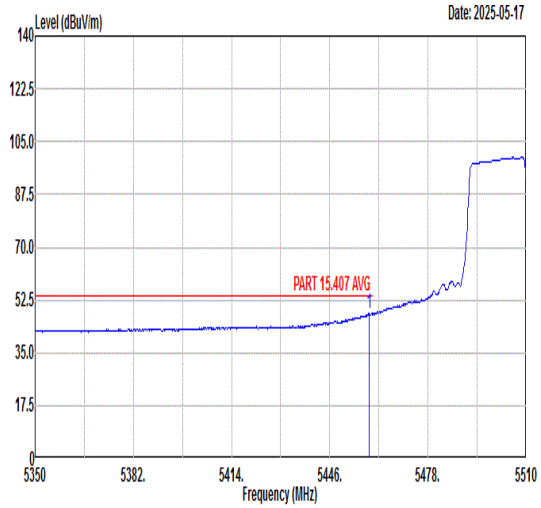
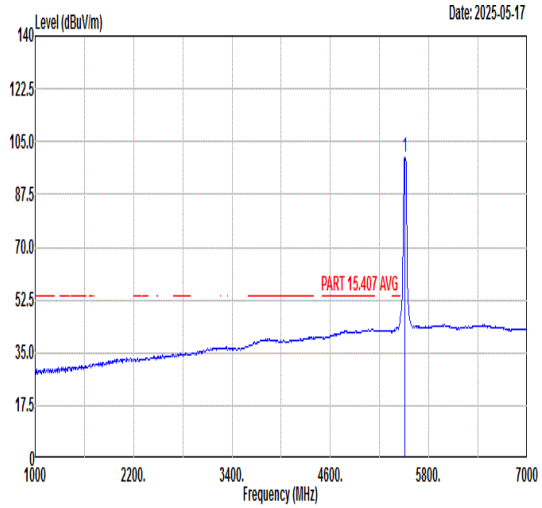
Mode	22	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5013.33 52.58 74.00 -21.42 41.09 36.69 8.30 33.50 200 253 PEAK	 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 5310.00 106.69 ------ ------ 94.50 36.45 9.18 33.44 200 253 PEAK
Avg	 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 5127.10 43.40 54.00 -10.60 31.78 36.60 8.49 33.47 200 253 AVERAGE	 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 5310.00 99.49 ------ ------ 87.33 36.45 9.15 33.44 200 253 AVERAGE

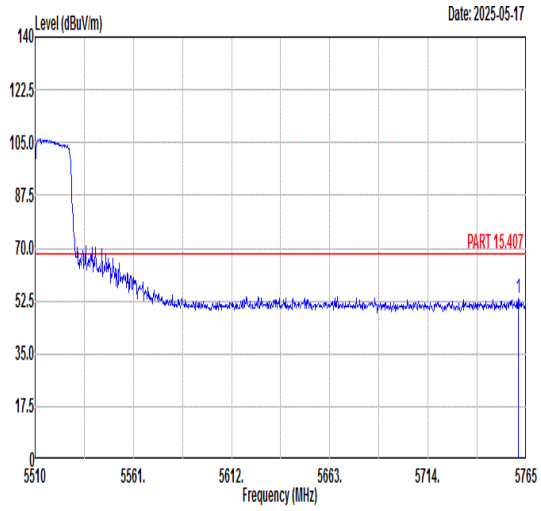
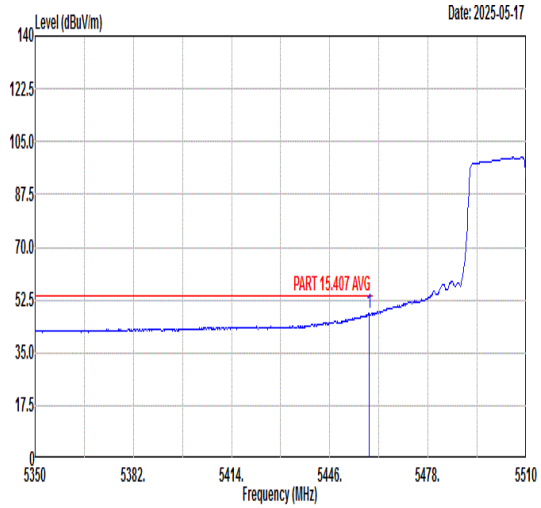
Mode	22	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.65 67.44 74.00 -6.56 55.08 36.42 9.37 33.43 200 253 PEAK	Blank
Avg	 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 5351.40 51.57 54.00 -2.43 39.21 36.42 9.37 33.43 200 253 AVERAGE	Blank

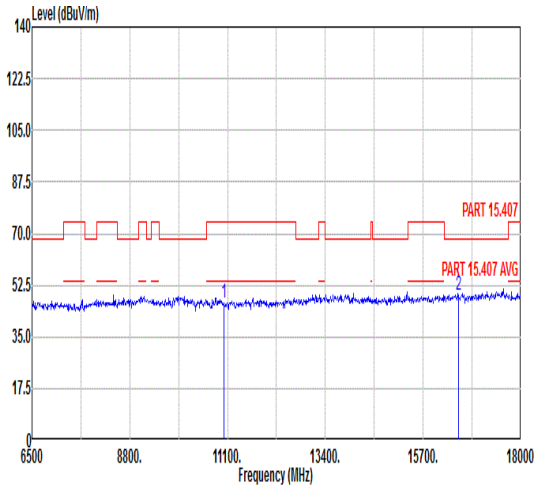
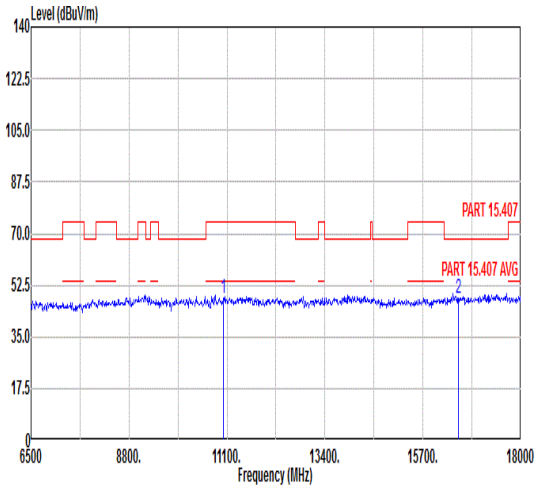
Mode	22	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10620.00 47.23 74.00 -26.77 60.11 38.52 12.25 63.65 --- --- Peak 2 15930.00 48.26 74.00 -25.74 56.59 41.56 14.76 64.65 --- --- Peak	 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 10620.00 47.02 74.00 -26.98 59.90 38.52 12.25 63.65 --- --- Peak 2 15930.00 47.06 74.00 -26.94 55.39 41.56 14.76 64.65 --- --- Peak

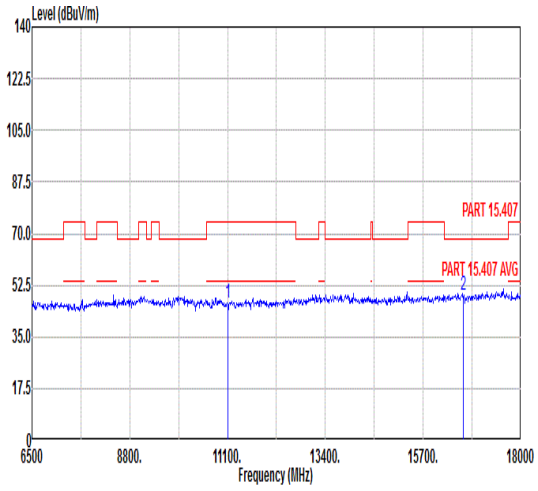
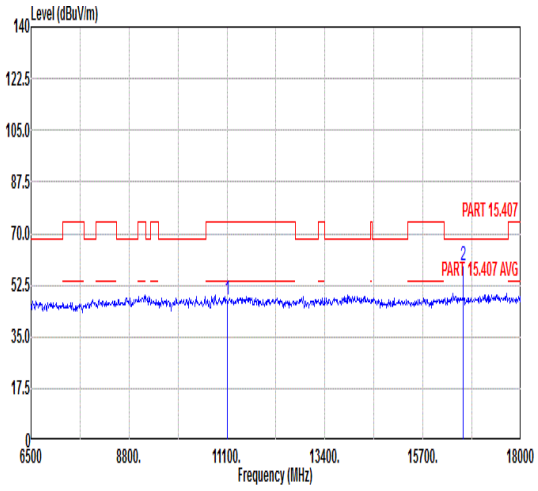
Mode	23	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5458.00 57.78 74.00 -16.22 45.17 36.33 9.69 33.41 292 244 PEAK 2 5469.68 64.17 68.30 -4.13 51.57 36.32 9.69 33.41 292 244 PEAK	 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 5510.00 104.77 ------ ------ 92.13 36.32 9.72 33.40 292 244 PEAK
Avg	 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 5459.92 46.39 54.00 -7.61 33.78 36.33 9.69 33.41 292 244 AVERAGE	 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 5510.00 98.35 ------ ------ 85.71 36.32 9.72 33.40 292 244 AVERAGE

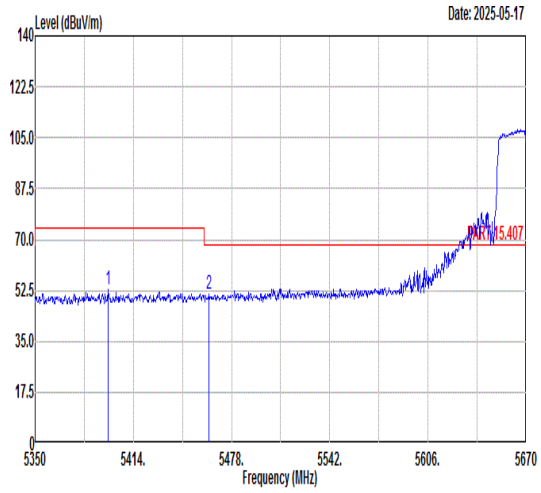
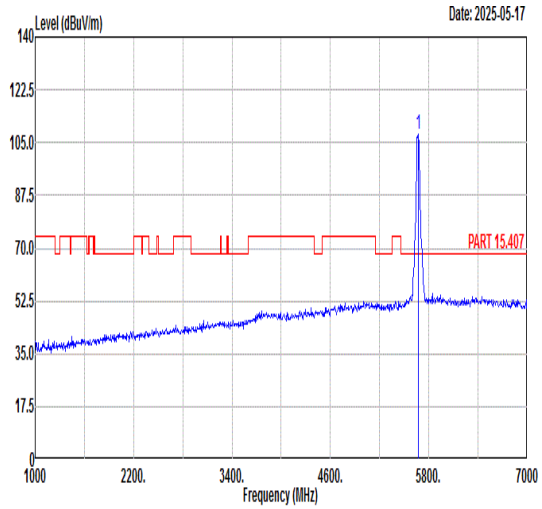
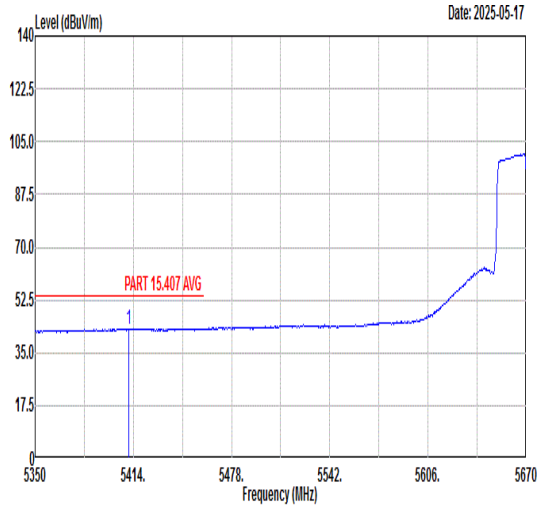
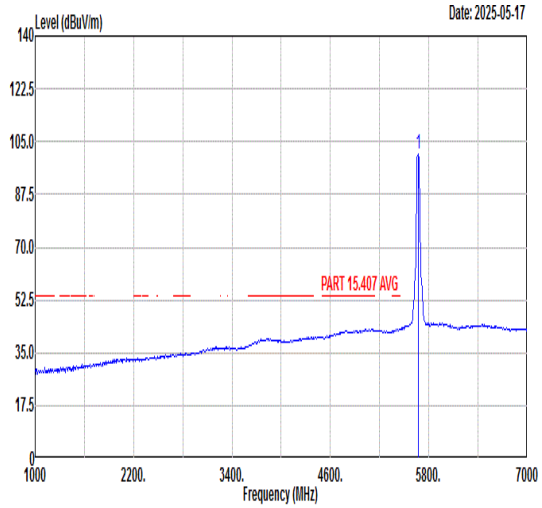
Mode	23	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5757.61 53.64 68.30 -14.66 40.44 36.56 10.09 33.45 292 244 PEAK	Blank
Avg	 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 5459.92 46.39 54.00 -7.61 33.78 36.33 9.69 33.41 292 244 AVERAGE	Blank

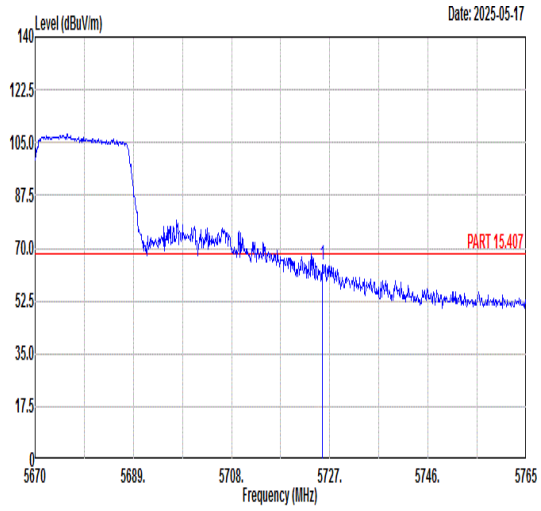
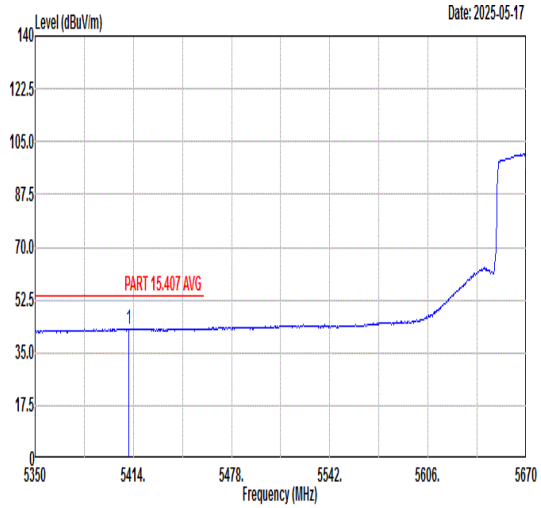
Mode	23	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5455.12 59.37 74.00 -14.63 46.76 36.34 9.68 33.41 196 254 PEAK 2 5468.40 65.55 68.30 -2.75 52.94 36.33 9.69 33.41 196 254 PEAK	 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 5510.00 106.71 ------ ------ 94.09 36.31 9.71 33.40 196 254 PEAK
Avg	 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 5458.80 47.93 54.00 -6.07 35.32 36.33 9.69 33.41 196 254 AVERAGE	 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 5510.00 99.62 ------ ------ 87.00 36.31 9.71 33.40 196 254 AVERAGE

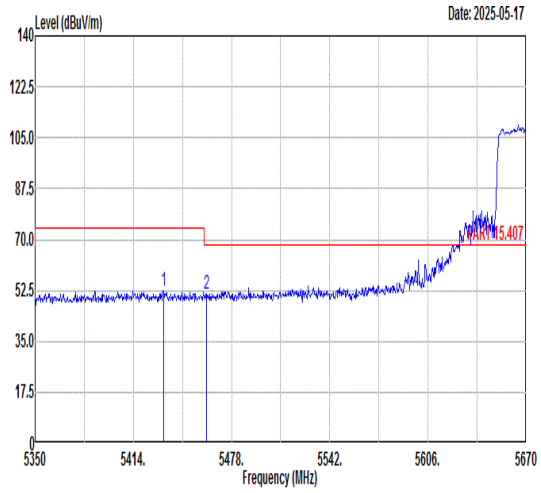
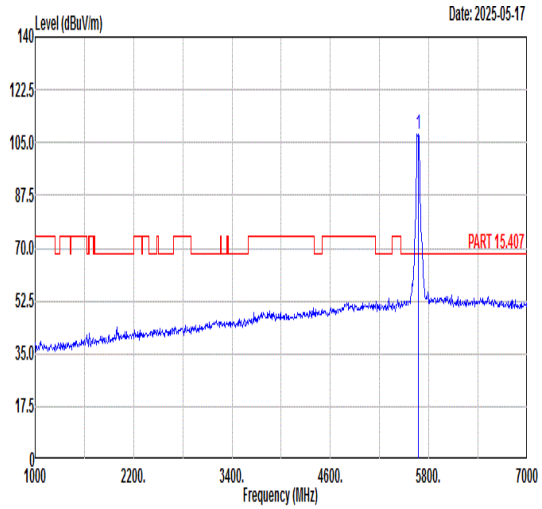
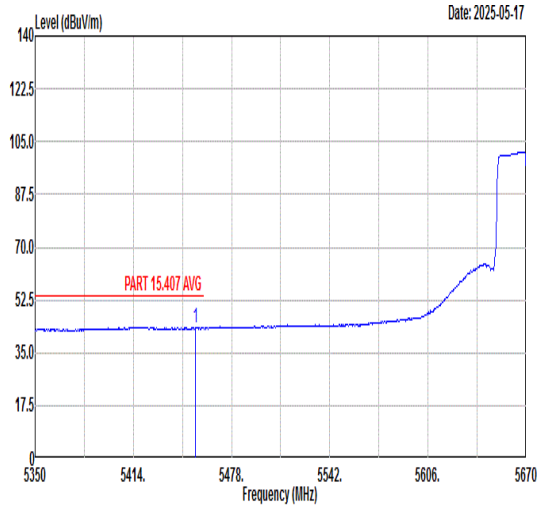
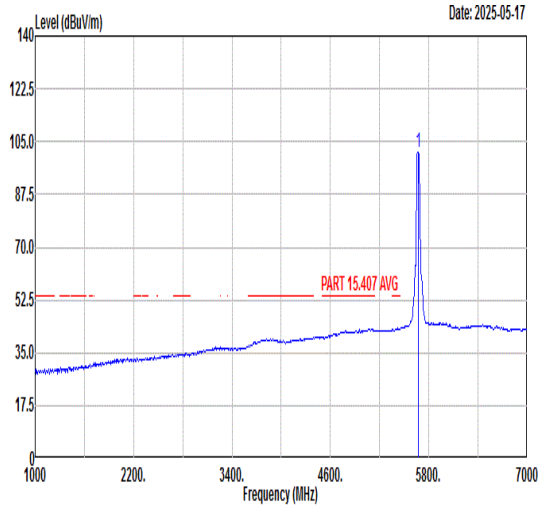
Mode	23	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5760.92 53.23 68.30 -15.07 40.03 36.56 10.09 33.45 196 254 PEAK	Blank
Avg	 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 5458.80 47.93 54.00 -6.07 35.32 36.33 9.69 33.41 196 254 AVERAGE	Blank

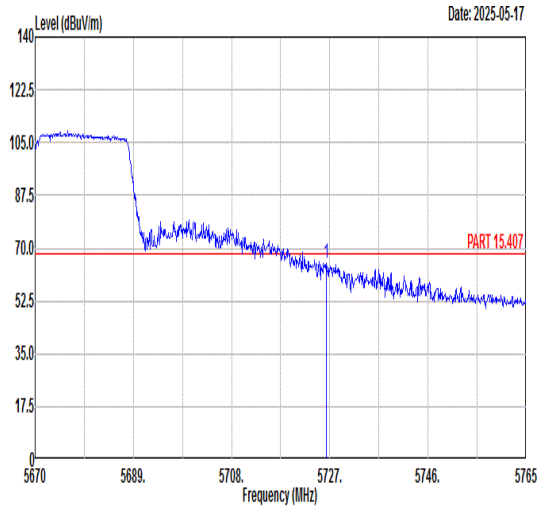
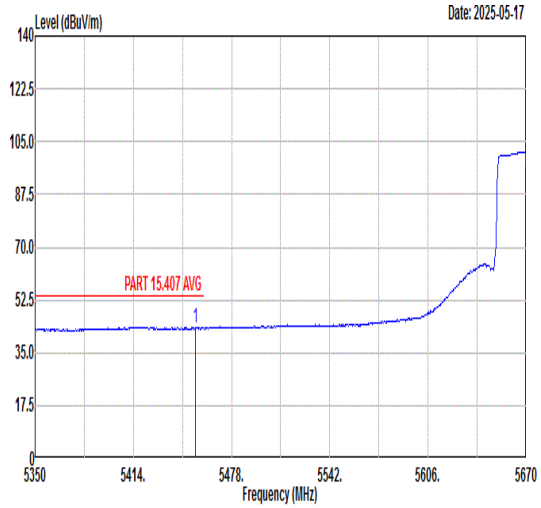
Mode	23	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11020.00 46.28 74.00 -27.72 58.63 38.62 12.54 63.51 --- --- Peak 2 16530.00 49.12 68.30 -19.18 56.71 41.97 15.19 64.75 --- --- Peak	 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 11020.00 48.06 74.00 -25.94 60.41 38.62 12.54 63.51 --- --- Peak 2 16530.00 47.94 68.30 -20.36 55.53 41.97 15.19 64.75 --- --- Peak

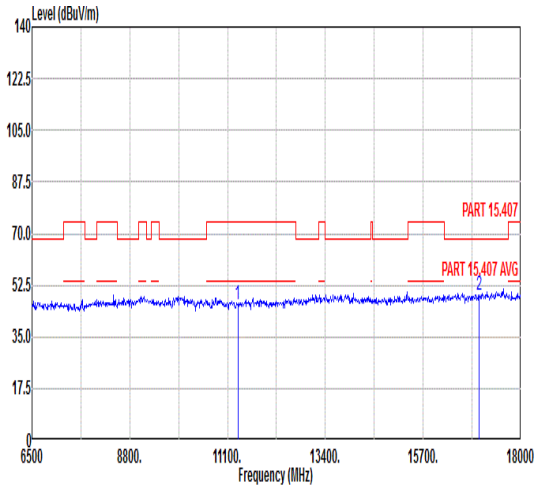
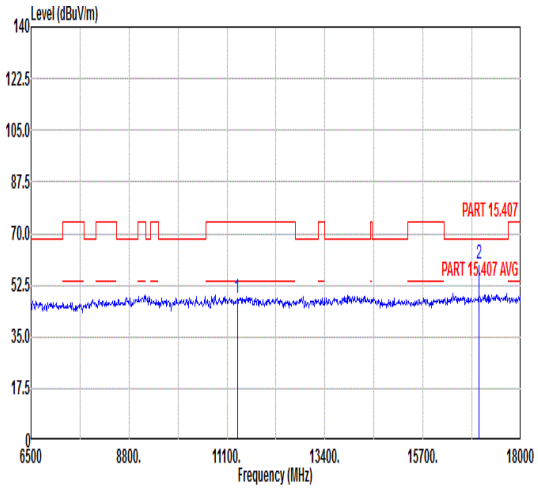
Mode	24	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT40_CH110_5550MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11100.00 46.68 74.00 -27.32 58.94 38.72 12.59 63.57 --- --- Peak 2 16650.00 49.11 68.30 -19.19 56.53 42.06 15.28 64.76 --- --- Peak	 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 11100.00 47.72 74.00 -26.28 59.98 38.72 12.59 63.57 --- --- Peak 2 16650.00 58.96 68.30 -9.34 66.38 42.06 15.28 64.76 100 89 Peak

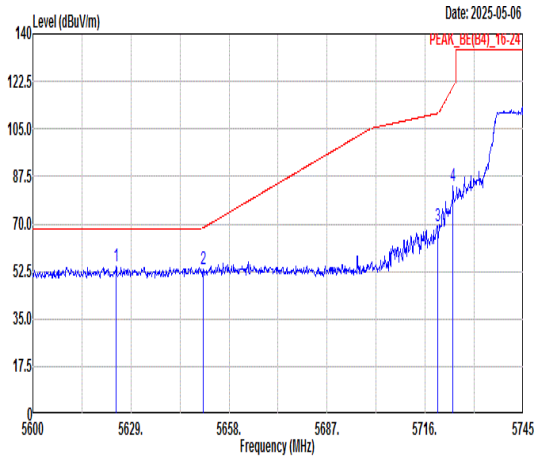
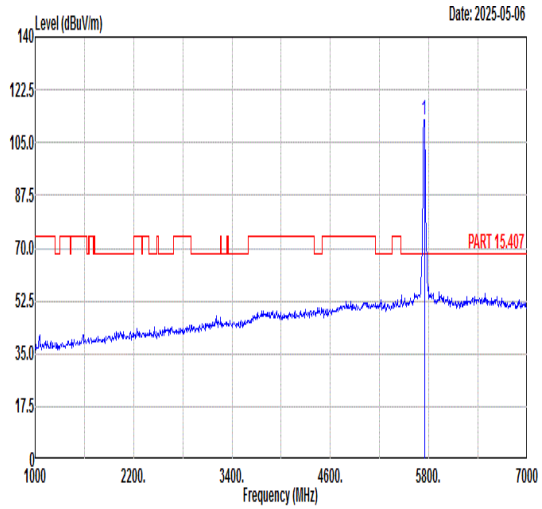
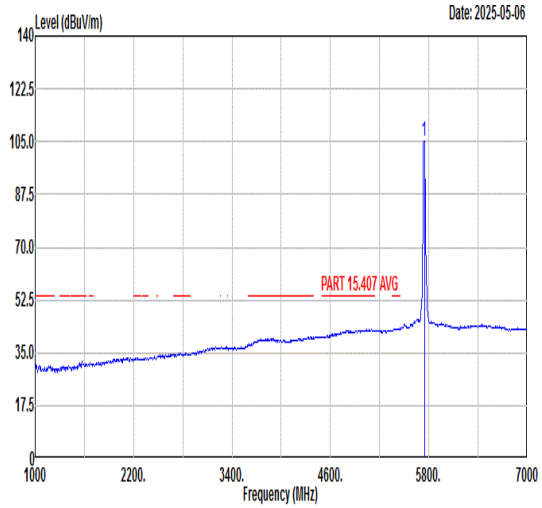
Mode	25	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5397.68 52.60 74.00 -21.40 40.03 36.38 9.61 33.42 300 243 PEAK 2 5463.28 51.03 68.30 -17.27 38.42 36.33 9.69 33.41 300 243 PEAK	 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 5670.00 107.87 ------ ------ 94.93 36.47 9.90 33.43 300 243 PEAK
Avg	 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 5411.12 43.03 54.00 -10.97 30.42 36.37 9.66 33.42 300 243 AVERAGE	 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 5670.00 101.00 ------ ------ 88.06 36.47 9.90 33.43 300 243 AVERAGE

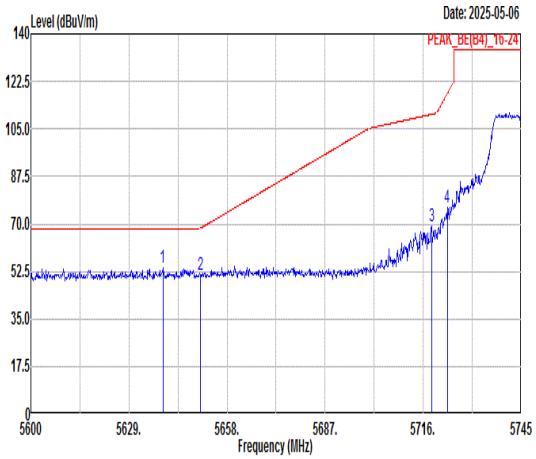
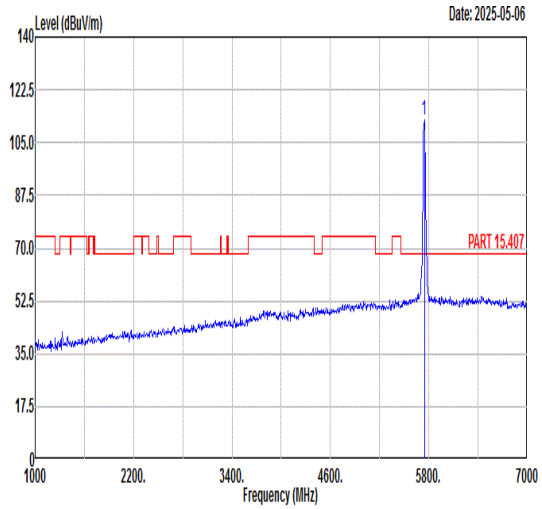
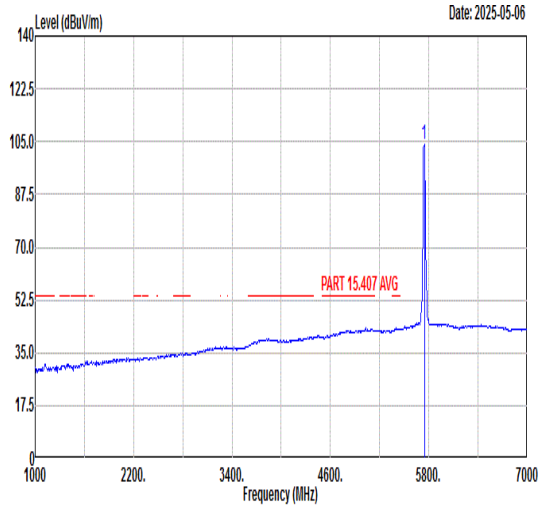
Mode	25	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5725.58 64.68 68.30 -3.62 51.58 36.53 10.02 33.45 300 243 PEAK	Blank
Avg	 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 5411.12 43.03 54.00 -10.97 30.42 36.37 9.66 33.42 300 243 AVERAGE	Blank

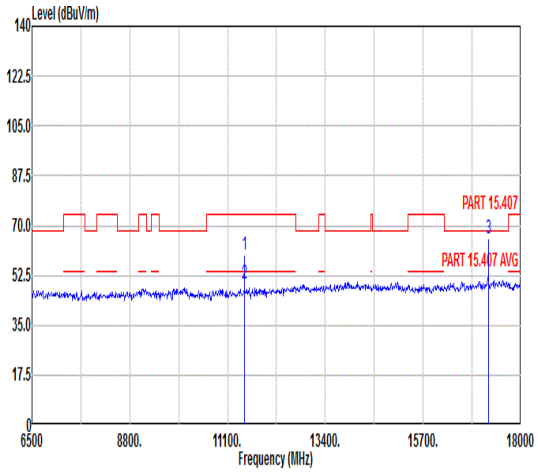
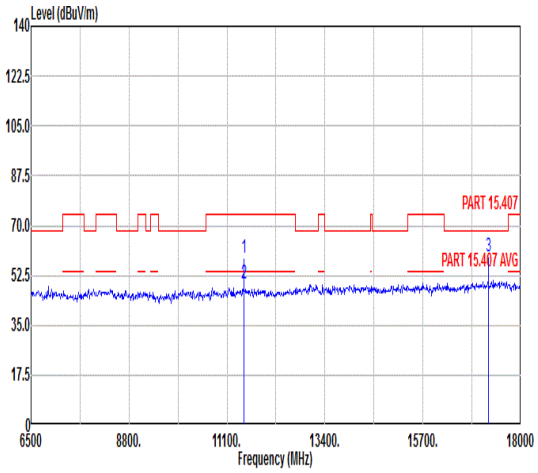
Mode	25	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5433.52 52.50 74.00 -21.50 39.89 36.35 9.67 33.41 200 257 PEAK 2 5461.68 51.45 68.30 -16.85 38.84 36.33 9.69 33.41 200 257 PEAK	 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 5670.00 107.87 ------ ------ 94.93 36.47 9.90 33.43 200 257 PEAK
Avg	 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 5454.32 43.55 54.00 -10.45 30.94 36.34 9.68 33.41 200 257 AVERAGE	 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 5670.00 101.55 ------ ------ 88.61 36.47 9.90 33.43 200 257 AVERAGE

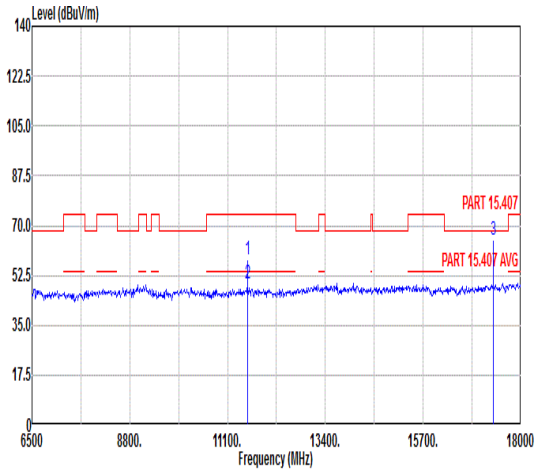
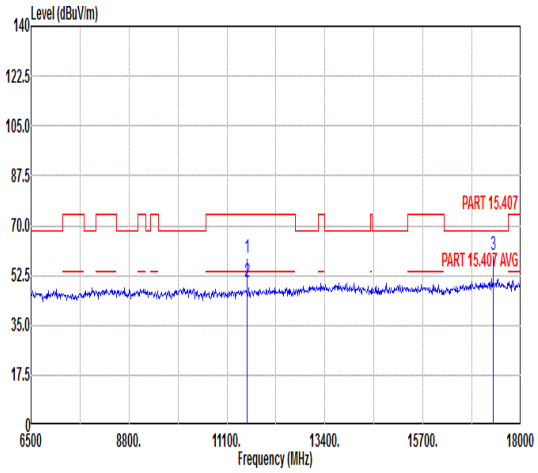
Mode	25	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5726.34 65.17 68.30 -3.13 52.07 36.53 10.02 33.45 200 257 PEAK	Blank
Avg	 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 5454.32 43.55 54.00 -10.45 30.94 36.34 9.68 33.41 200 257 AVERAGE	Blank

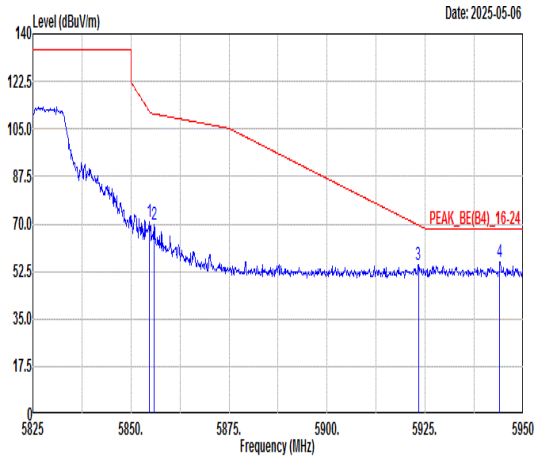
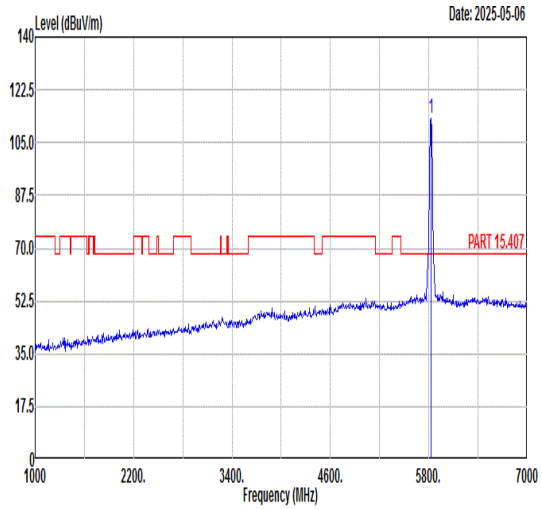
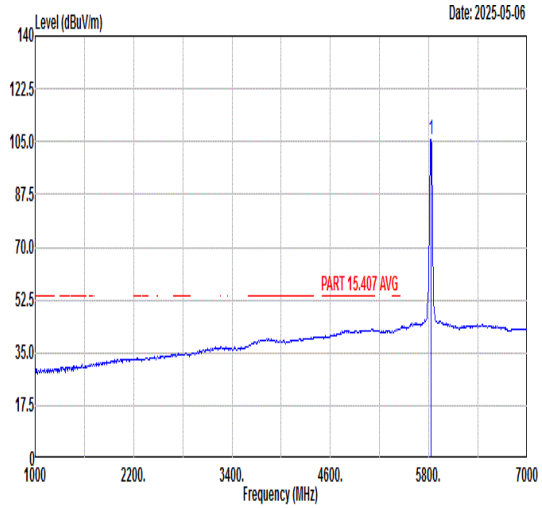
Mode	25	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11340.00 46.17 74.00 -27.83 58.13 39.01 12.77 63.74 --- --- Peak 2 17010.00 49.05 68.30 -19.25 56.00 42.31 15.55 64.81 --- --- Peak	 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 11340.00 48.03 74.00 -25.97 59.99 39.01 12.77 63.74 --- --- Peak 2 17010.00 59.94 68.30 -8.36 66.89 42.31 15.55 64.81 100 79 Peak

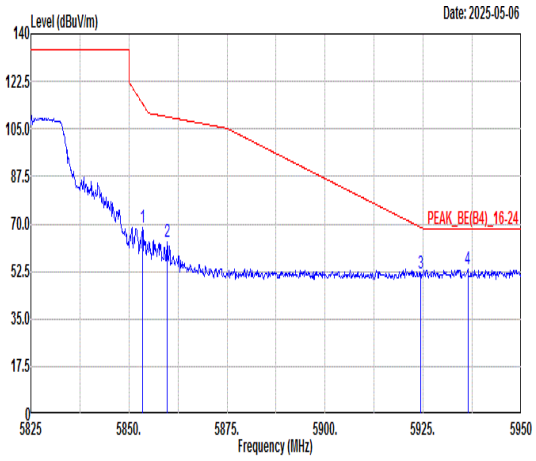
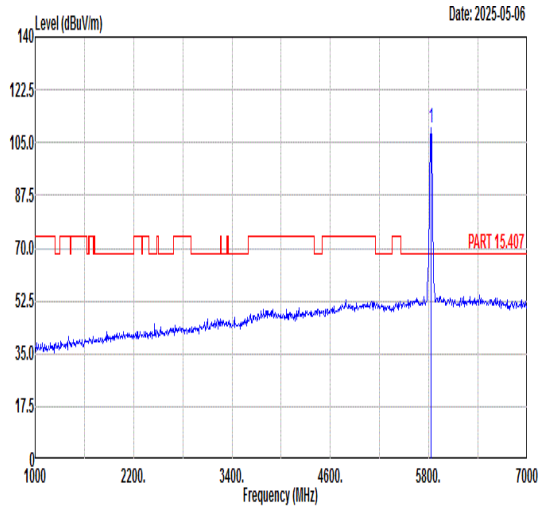
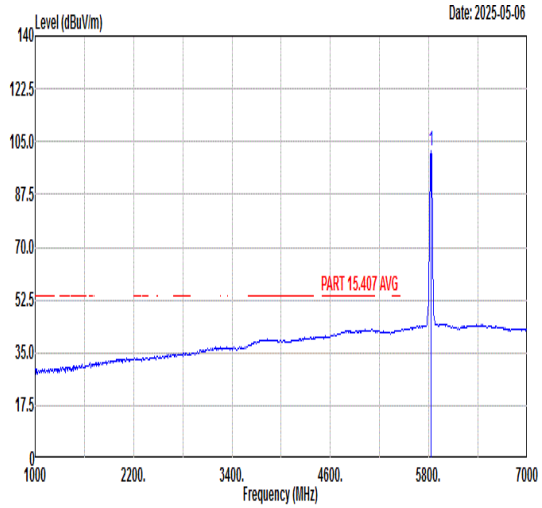
Mode	26	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5624.65 54.34 68.30 -13.96 41.53 36.42 9.81 33.42 322 234 PEAK 2 5650.32 53.57 68.53 -14.96 40.69 36.45 9.86 33.43 322 234 PEAK 3 5719.63 69.42 110.70 -41.28 56.33 36.52 10.01 33.44 322 234 PEAK 4 5724.27 84.13 120.53 -36.40 71.03 36.52 10.02 33.44 322 234 PEAK	 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 5745.00 112.53 ------ ------ 99.35 36.55 10.08 33.45 322 234 PEAK
Avg	Blank	 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 5745.00 105.26 ------ ------ 92.08 36.55 10.08 33.45 322 234 AVERAGE

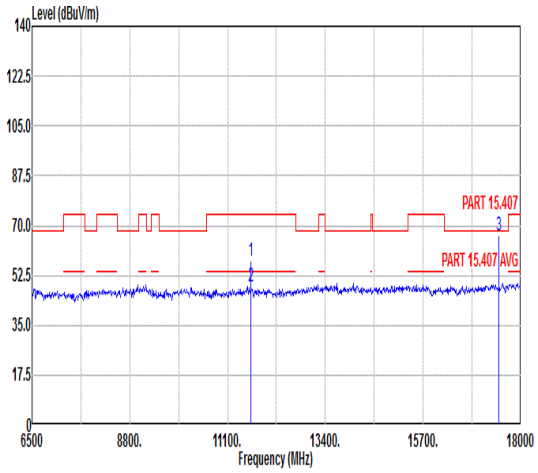
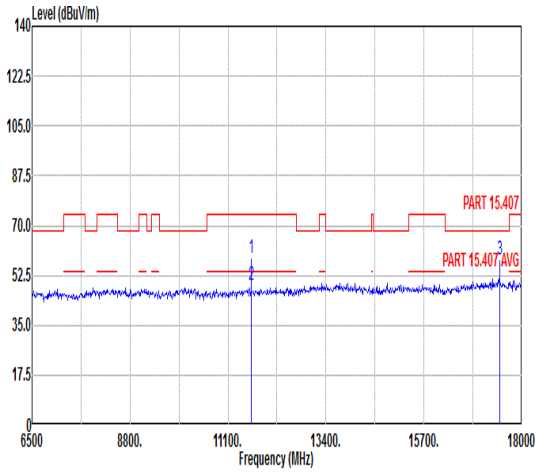
Mode	26	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5639.01 53.84 68.30 -14.46 40.99 36.44 9.84 33.43 100 281 PEAK 2 5650.03 51.45 68.32 -16.87 38.57 36.45 9.86 33.43 100 281 PEAK 3 5718.47 68.96 110.37 -41.41 55.88 36.52 10.00 33.44 100 281 PEAK 4 5723.11 76.13 117.88 -41.75 63.04 36.52 10.01 33.44 100 281 PEAK	 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 5745.00 112.32 ------ ------ 99.14 36.55 10.08 33.45 100 281 PEAK
Avg	Blank	 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 5745.00 103.81 ------ ------ 90.65 36.55 10.06 33.45 100 281 AVERAGE

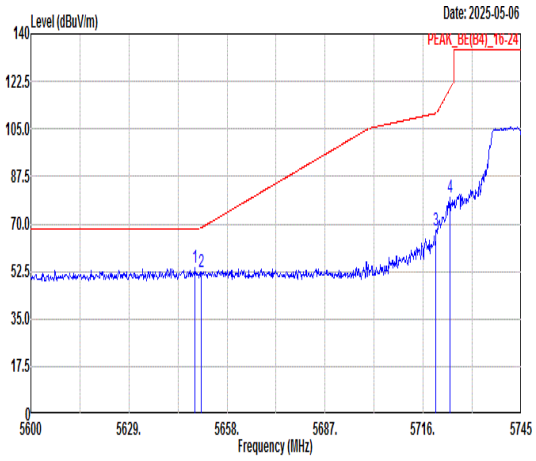
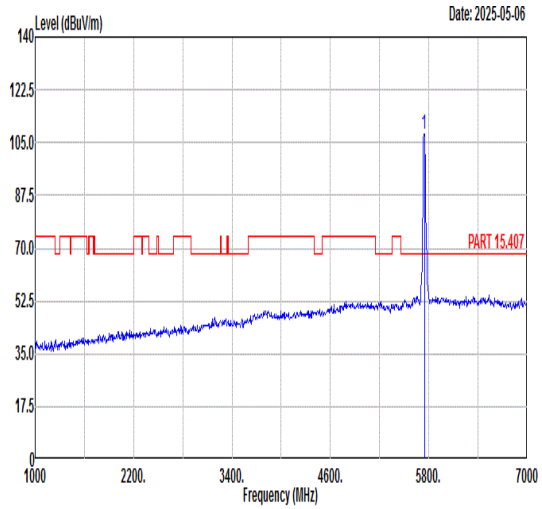
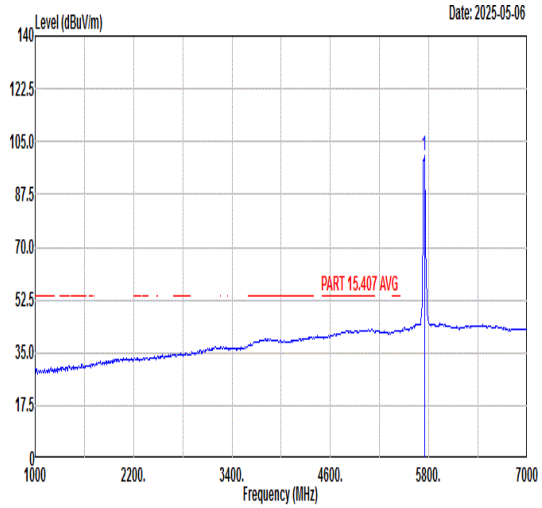
Mode	26	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11490.00 59.46 74.00 -14.54 71.24 39.19 12.87 63.84 341 245 Peak 2 11490.00 49.86 54.00 -4.14 61.64 39.19 12.87 63.84 341 245 Average 3 17235.00 65.65 68.30 -2.65 72.43 42.56 15.72 65.06 100 97 Peak	 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 11490.00 58.49 74.00 -15.51 70.27 39.19 12.87 63.84 328 256 Peak 2 11490.00 49.56 54.00 -4.44 61.34 39.19 12.87 63.84 328 256 Average 3 17235.00 58.94 68.30 -9.36 65.72 42.56 15.72 65.06 100 303 Peak

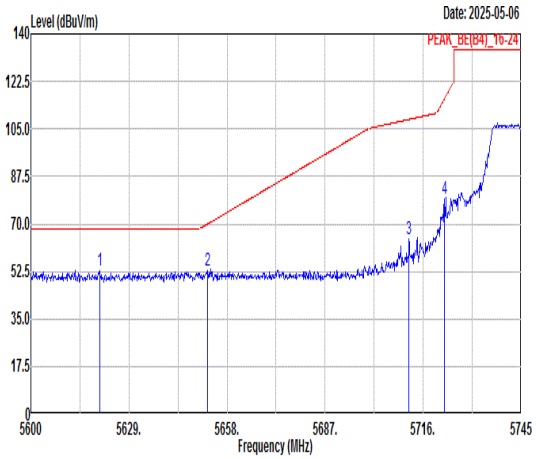
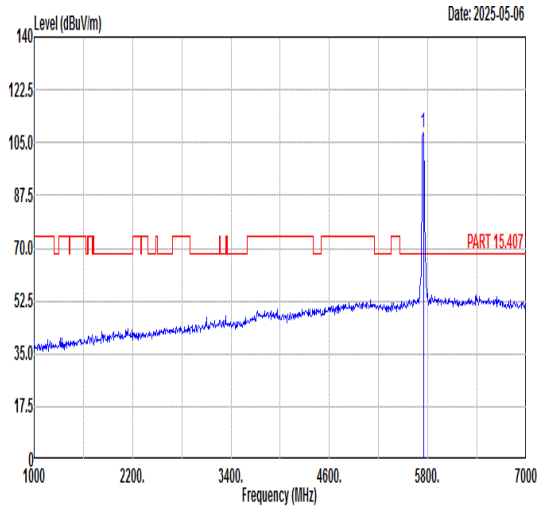
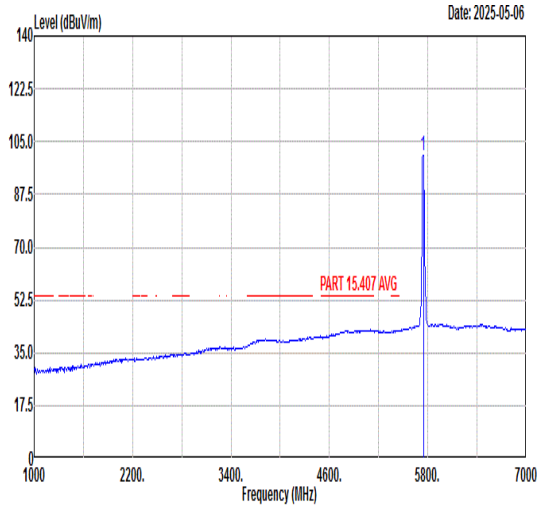
Mode	27	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11570.00 58.00 74.00 -16.00 69.69 39.28 12.93 63.90 324 224 Peak 2 11570.00 49.48 54.00 -4.52 61.17 39.28 12.93 63.90 324 224 Average 3 17355.00 65.20 68.30 -3.10 71.89 42.69 15.81 65.19 100 99 Peak	 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 11570.00 58.52 74.00 -15.48 70.21 39.28 12.93 63.90 316 256 Peak 2 11570.00 50.25 54.00 -3.75 61.94 39.28 12.93 63.90 316 256 Average 3 17355.00 59.80 68.30 -8.50 66.49 42.69 15.81 65.19 100 307 Peak

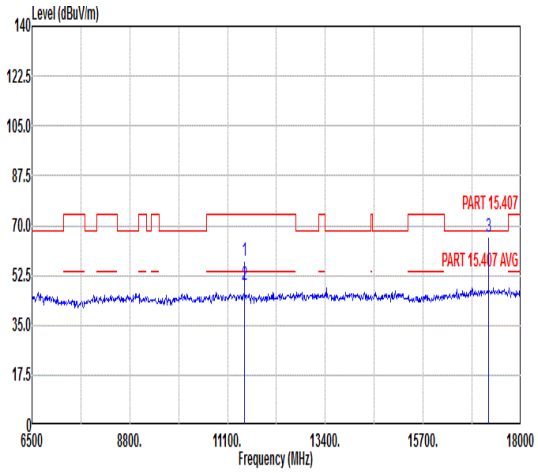
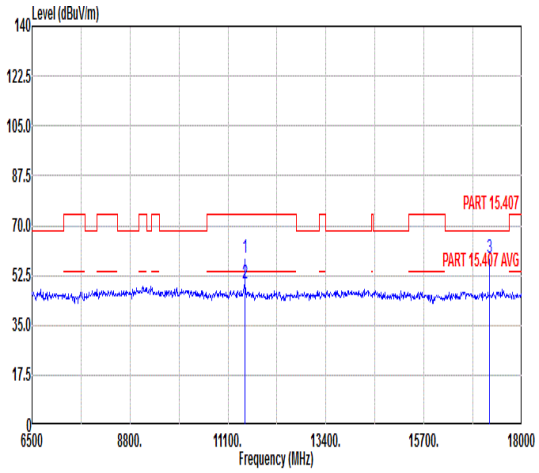
Mode	28	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5854.63 70.87 111.65 -40.78 57.40 36.65 10.29 33.47 308 243 PEAK 2 5855.88 69.57 110.55 -40.98 56.09 36.66 10.29 33.47 308 243 PEAK 3 5923.25 55.13 69.59 -14.46 41.45 36.72 10.44 33.48 308 243 PEAK 4 5944.00 56.00 68.30 -12.30 42.27 36.74 10.48 33.49 308 243 PEAK	 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 5825.00 112.81 ------ ------ 99.42 36.62 10.23 33.46 308 243 PEAK
Avg	Blank	 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 5825.00 105.85 ------ ------ 92.46 36.62 10.23 33.46 308 243 AVERAGE

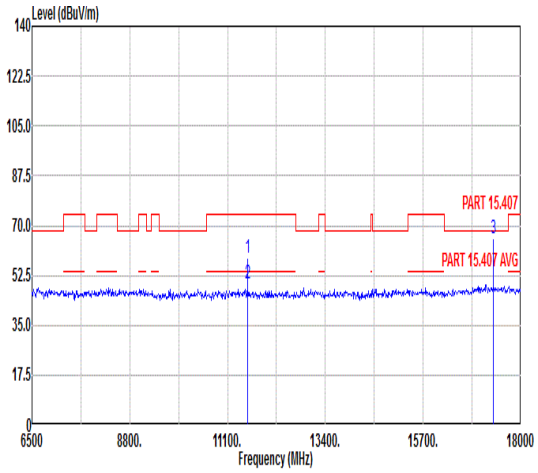
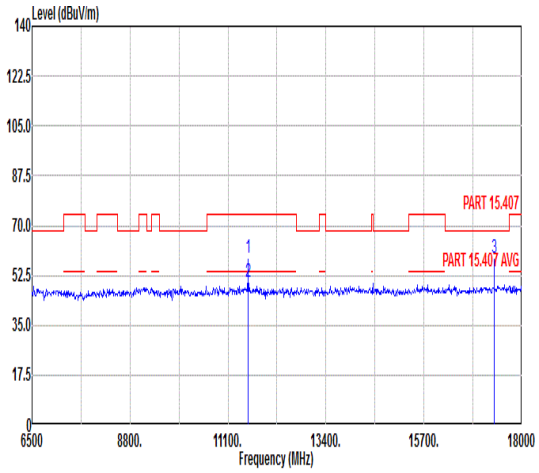
Mode	28	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5853.50 68.69 114.22 -45.53 55.22 36.65 10.29 33.47 139 343 PEAK 2 5859.75 63.23 109.47 -46.24 49.74 36.66 10.30 33.47 139 343 PEAK 3 5924.38 51.93 68.76 -16.83 38.25 36.72 10.44 33.48 139 343 PEAK 4 5936.38 53.13 68.30 -15.17 39.42 36.74 10.46 33.49 139 343 PEAK	 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 5825.00 109.93 ------ ------ 96.53 36.63 10.24 33.47 139 343 PEAK
Avg	Blank	 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 5825.00 102.20 ------ ------ 88.80 36.63 10.24 33.47 139 343 AVERAGE

Mode	28	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 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 11650.00 57.83 74.00 -16.17 69.41 39.38 12.99 63.95 336 247 Peak 2 11650.00 48.74 54.00 -5.26 60.32 39.38 12.99 63.95 336 247 Average 3 17475.00 66.51 68.30 -1.79 73.11 42.82 15.90 65.32 100 68 Peak	 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 11650.00 58.61 74.00 -15.39 70.19 39.38 12.99 63.95 325 255 Peak 2 11650.00 49.20 54.00 -4.80 60.78 39.38 12.99 63.95 325 255 Average 3 17475.00 58.14 68.30 -10.16 64.74 42.82 15.90 65.32 249 228 Peak

Mode	29	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 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 5648.58 54.06 68.30 -14.24 41.18 36.45 9.86 33.43 351 204 PEAK 2 5650.32 52.40 68.53 -16.13 39.52 36.45 9.86 33.43 351 204 PEAK 3 5719.77 67.70 110.74 -43.04 54.61 36.52 10.01 33.44 351 204 PEAK 4 5723.83 79.97 119.53 -39.56 66.87 36.52 10.02 33.44 351 204 PEAK	 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 5745.00 107.74 ------ ------ 94.56 36.55 10.08 33.45 351 204 PEAK
Avg	Blank	 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 5745.00 100.19 ------ ------ 87.01 36.55 10.08 33.45 351 204 AVERAGE

Mode	29	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 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 5620.30 53.04 68.30 -15.26 40.24 36.42 9.80 33.42 126 341 PEAK 2 5652.20 52.82 69.93 -17.11 39.93 36.45 9.87 33.43 126 341 PEAK 3 5711.80 64.42 108.50 -44.08 51.36 36.51 9.99 33.44 126 341 PEAK 4 5722.24 79.16 115.90 -36.74 66.07 36.52 10.01 33.44 126 341 PEAK	 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 5745.00 108.47 ------ ------ 95.33 36.54 10.05 33.45 126 341 PEAK
Avg	Blank	 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 5745.00 100.51 ------ ------ 87.35 36.55 10.06 33.45 126 341 AVERAGE

Mode	29	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 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 11490.00 57.40 74.00 -16.60 69.18 39.19 12.87 63.84 317 253 Peak 2 11490.00 49.06 54.00 -4.94 60.84 39.19 12.87 63.84 317 253 Average 3 17235.00 66.05 68.30 -2.25 72.83 42.56 15.72 65.06 100 71 Peak	 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 11490.00 58.85 74.00 -15.15 70.63 39.19 12.87 63.84 328 256 Peak 2 11490.00 49.76 54.00 -4.24 61.54 39.19 12.87 63.84 328 256 Average 3 17235.00 58.45 68.30 -9.85 65.23 42.56 15.72 65.06 100 206 Peak

Mode	30	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 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 11570.00 58.54 74.00 -15.46 70.23 39.28 12.93 63.90 333 245 Peak 2 11570.00 49.50 54.00 -4.50 61.19 39.28 12.93 63.90 333 245 Average 3 17355.00 65.65 68.30 -2.65 72.34 42.69 15.81 65.19 100 60 Peak	 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 11570.00 58.73 74.00 -15.27 70.42 39.28 12.93 63.90 335 256 Peak 2 11570.00 49.97 54.00 -4.03 61.66 39.28 12.93 63.90 335 256 Average 3 17355.00 58.43 68.30 -9.87 65.12 42.69 15.81 65.19 100 200 Peak