FCC RF Test Report

APPLICANT	:	TP-LINK CORPORATION PTE. LTD.,
EQUIPMENT	:	AX1500 Wi-Fi 6 Portable Router
BRAND NAME	:	tp-link
MODEL NAME	:	TL-WR1502X
FCC ID	:	2BCGWWR1502X
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Nov. 26, 2023 ~ Dec. 01, 2023

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.

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR3N0708B	Rev. 01	Initial issue of report	Dec. 19, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm for UNII-1, and 24 dBm for UNII-2A/2C	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 17 dBm/MHz for UNII-1, and 11 dBm/MHz for UNII-2A/2C	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) &15.209(a)	Pass	Under limit 0.16 dB at 5352.96 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Pass	Under limit 5.09 dB at 0.43 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

TP-LINK CORPORATION PTE. LTD.,
7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987

1.2 Manufacturer

TP-LINK CORPORATION PTE. LTD.,
7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	AX1500 Wi-Fi 6 Portable Router
Brand Name	tp-link
Model Name	TL-WR1502X
FCC ID	2BCGWWR1502X
SN	Conducted: T23C026000001 Conduction/Radiation: T23C026000002
HW Version	V1.0
SW Version	1.0.0 Build 20231018 rel.70140
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	**MIMO <Ant. 1+2>** **<5180 MHz ~ 5240 MHz>** 802.11a : 27.40 dBm / 0.5495 W 802.11ac VHT20: 27.44 dBm / 0.5546 W 802.11ac VHT40: 24.92 dBm / 0.3105 W 802.11ac VHT80: 21.61 dBm / 0.1449 W 802.11ax HE20: 27.57 dBm / 0.5715 W 802.11ax HE40: 25.06 dBm / 0.3206 W 802.11ax HE80: 21.74 dBm / 0.1493 W **<5260 MHz ~ 5320 MHz>** 802.11a : 21.34 dBm / 0.1361 W 802.11ac VHT20: 21.60 dBm / 0.1445 W 802.11ac VHT40: 23.58 dBm / 0.2280 W 802.11ac VHT80: 21.81 dBm / 0.1517 W 802.11ax HE20: 21.73 dBm / 0.1489 W 802.11ax HE40: 23.66 dBm / 0.2323 W 802.11ax HE80: 21.93 dBm / 0.1560 W **<5500 MHz ~ 5720 MHz >** 802.11a : 21.66 dBm / 0.1466 W 802.11ac VHT20: 21.79 dBm / 0.1510 W 802.11ac VHT40: 23.75 dBm / 0.2371 W 802.11ac VHT80: 23.61 dBm / 0.2296 W 802.11ax HE20: 21.94 dBm / 0.1563 W 802.11ax HE40: 23.81 dBm / 0.2404 W 802.11ax HE80: 23.69 dBm / 0.2339 W **<5745 MHz ~ 5825 MHz>** 802.11a : 26.72 dBm / 0.4699 W 802.11ac VHT20: 26.74 dBm / 0.4721 W 802.11ac VHT40: 26.82 dBm / 0.4808 W 802.11ac VHT80: 26.19 dBm / 0.4159 W 802.11ax HE20: 26.85 dBm / 0.4842 W 802.11ax HE40: 26.97 dBm / 0.4977 W 802.11ax HE80: 26.36 dBm / 0.4325 W

99% Occupied Bandwidth	**<5180 MHz ~ 5240 MHz>** 802.11a: 27.42 MHz 802.11ax HE20: 26.42 MHz 802.11ax HE40: 37.56 MHz 802.11ax HE80: 76.72 MHz **<5260 MHz ~ 5320 MHz>** 802.11a: 16.33 MHz 802.11ax HE20: 18.73 MHz 802.11ax HE40: 37.36 MHz 802.11ax HE80: 77.20 MHz **<5500 MHz ~ 5720 MHz>** 802.11a: 16.38 MHz 802.11ax HE20: 18.83 MHz 802.11ax HE40: 37.46 MHz 802.11ax HE80: 77.44 MHz **<5745 MHz ~ 5825 MHz>** 802.11a: 27.77 MHz 802.11ax HE20: 26.82 MHz 802.11ax HE40: 49.15 MHz 802.11ax HE80: 85.71 MHz
Antenna Type	PIFA Antenna
Antenna Gain	**<5180 MHz ~ 5240 MHz>** <Ant. 1> : 2.31 dBi <Ant. 2> : 3.00 dBi **<5260 MHz ~ 5320 MHz>** <Ant. 1> : 2.54 dBi <Ant. 2> : 2.78 dBi **<5500 MHz ~ 5720 MHz>** <Ant. 1> : 3.00 dBi <Ant. 2> : 2.61 dBi **<5745 MHz ~ 5825 MHz>** <Ant. 1> : 2.51 dBi <Ant. 2> : 2.71 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)
Antenna Function Description	

	Ant. 1	Ant. 2
802.11 a/n/ac/ax SISO	V	V
802.11 a/n/ac/ax MIMO	V	V
802.11 ac/ax Tx Beamforming	V	V

Note:

1. For SISO&MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power.
2. The EUT supports beamforming and MIMO CDD mode, and the CDD mode is the worst case. Therefore, all test items are evaluated in this report. The beamforming mode only evaluates the

output power.

3. Due to the same modulation between 802.11n and 802.11ac, so 802.11n-HT20 and HT40 are covered by 802.11ac-VHT20 and VHT40 in this report, and power setting for 802.11n-HT20 and HT40 will not be greater than 802.11ac-VHT20 and VHT40.
4. For 802.11ac-VHT20/VHT40/VHT80 mode and 802.11ax-HE20/HE40/HE80 mode, the whole testing has assessed only 802.11ax-HE20/HE40/HE80 by referring to their higher conducted power.
5. 802.11ax mode only supports full RU for this device, so only the full RU is evaluated.

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	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-SZ TH01-SZ	CN1256	421272

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.**
	03CH03-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-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.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (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
	42#	5210	-	-

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290	-	-

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5500-5720MHz U-NII-2C	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

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

Note:

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

2.2 Test Mode

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

CDD Mode

Modulation	Data Rate
802.11a	**6 Mbps**
802.11ax HE20	**MCS0**
802.11ax HE40	**MCS0**
802.11ax HE80	**MCS0**

Co-location mode
WLAN 2.4G 802.11g CH01 Tx + WLAN 5G 802.11ax HE80 CH58 Tx

AC Conducted Emission	Mode 1 : WIFI(5G) Link + WAN Link + LAN Link + USB Link with Hard Disk (Data from Notebook to Hard Disk) via EUT + USB Cable (Powered by Adapter)
Remark: For Radiated Test Cases, the tests were performed with Adapter and USB Cable.	

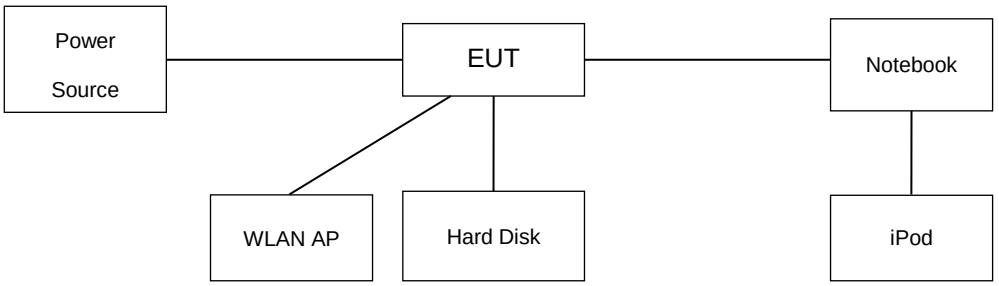
Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	40/44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

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	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		80M BW	80M BW	80M BW	80M BW
L	Low	-	-	106	-
M	Middle	42	58	-	155
H	High	-	-	122	-
Straddle		-	-	138	-

2.3 Connection Diagram of Test System

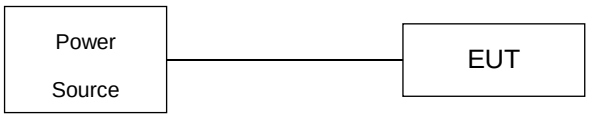
For Conducted Emission:



This example is connection diagram of EUT test configurations.

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

For 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, 1.8m
2.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Hard Disk	N/A	N/A	N/A	N/A	N/A
4.	iPod	Apple	MC69029/A	N/A	N/A	N/A
5.	RJ45 Cable	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 Notebook 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 2.8 dB and 10dB attenuator.

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

= 2.8 + 10 = 12.8 (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

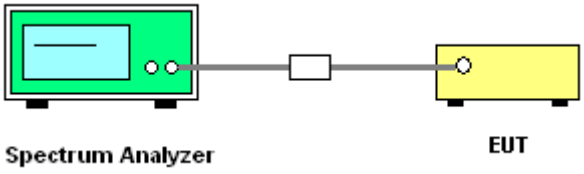
The measuring equipment is listed in the section 4 of this test report.

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.

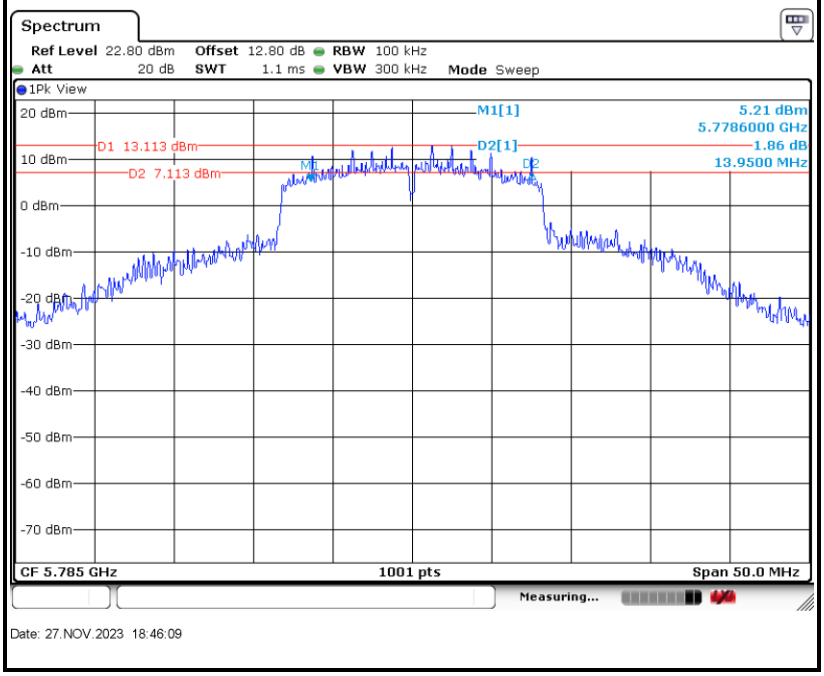
3.1.4 Test Setup



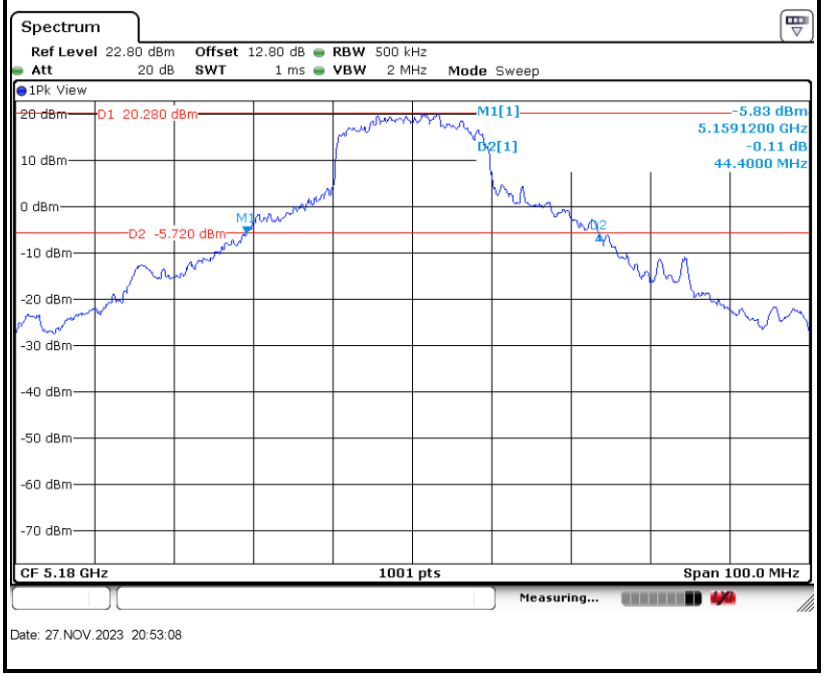
3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

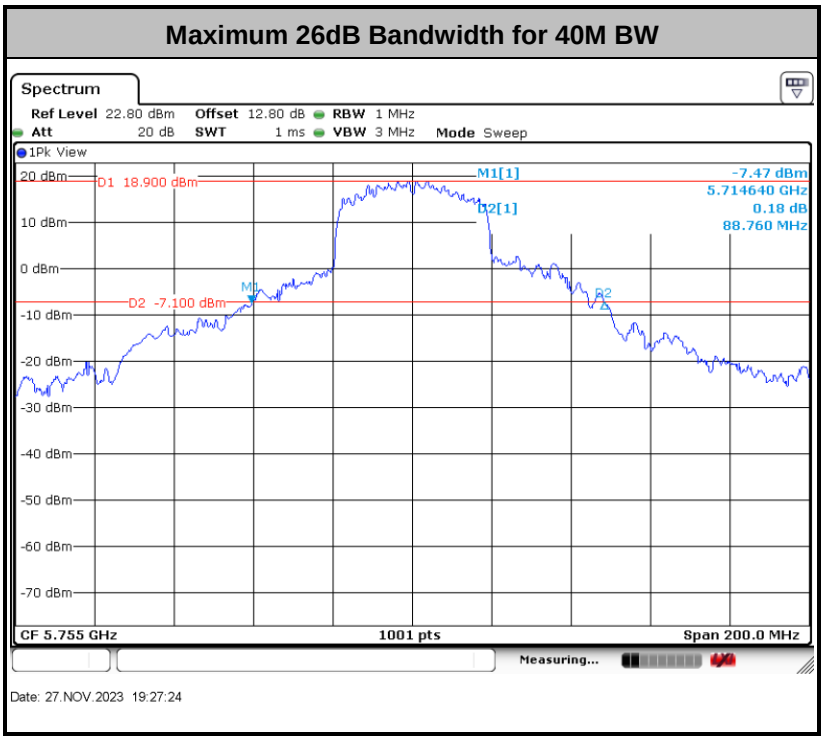
Minimum 6dB Bandwidth



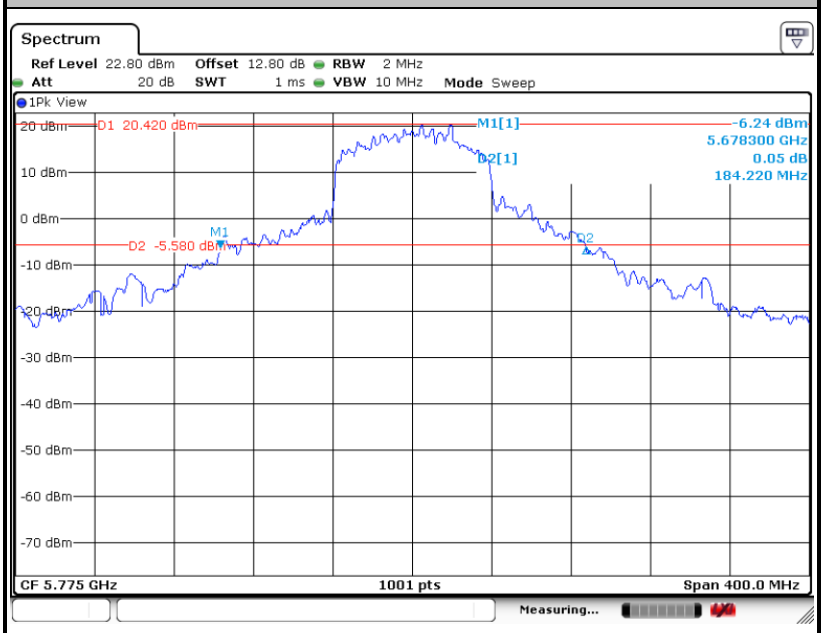
Maximum 26dB Bandwidth for 20M BW



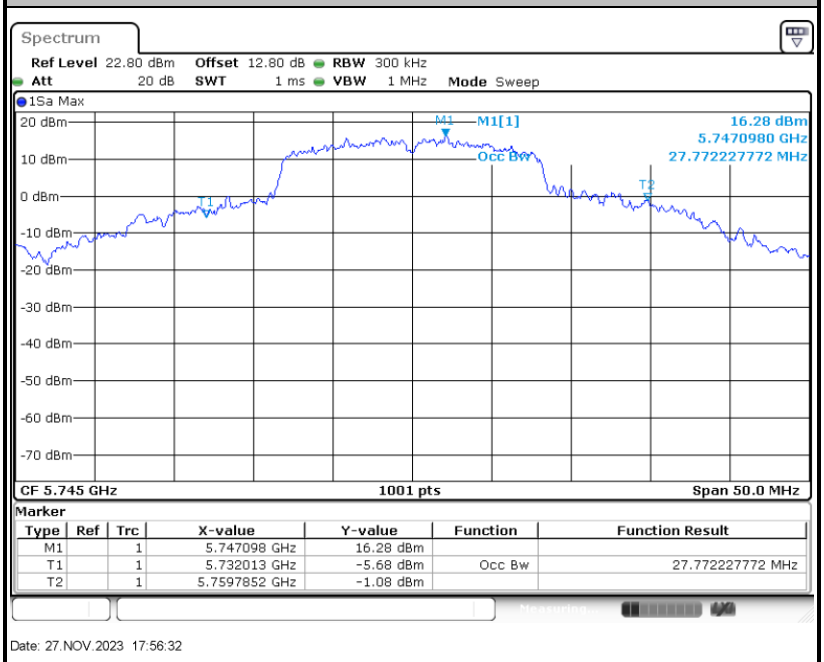
Maximum 26dB Bandwidth for 40M BW



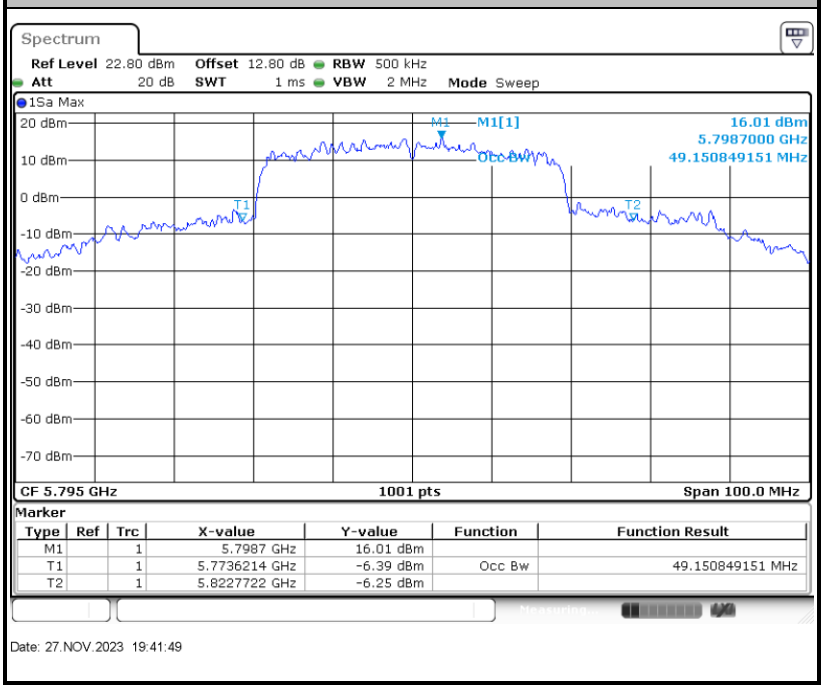
Maximum 26dB Bandwidth for 80M BW



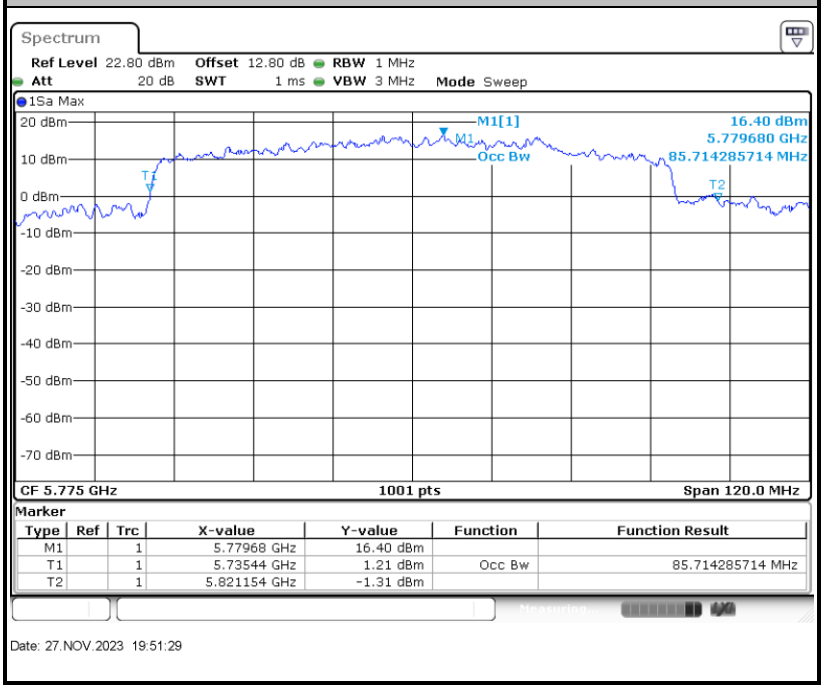
Maximum 99% Occupied Bandwidth for 20M BW



Maximum 99% Occupied Bandwidth for 40M BW



Maximum 99% Occupied Bandwidth for 80M 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 an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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

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

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

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

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

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3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is the duty cycle.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

<TXBF Modes>

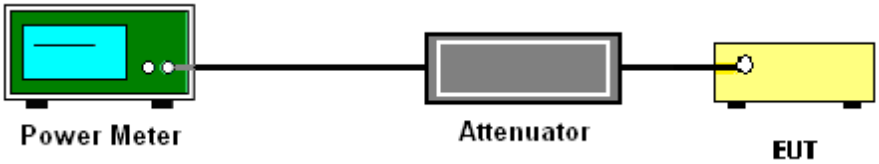
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 for TXBF modes.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

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 an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm 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. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is the bin-by-bin summation to obtain the combined spectrum. For the device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

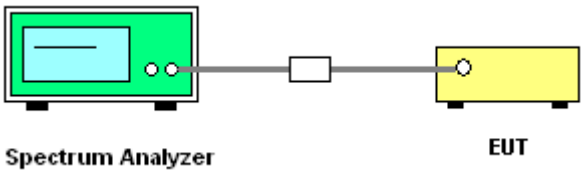
Method (b): Measure and sum spectral maxima across the outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

Method (c): Measure and add 10 log(N_{ANT}) dB, where N_{ANT} is the number of outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit.

3.3.4 Test Setup

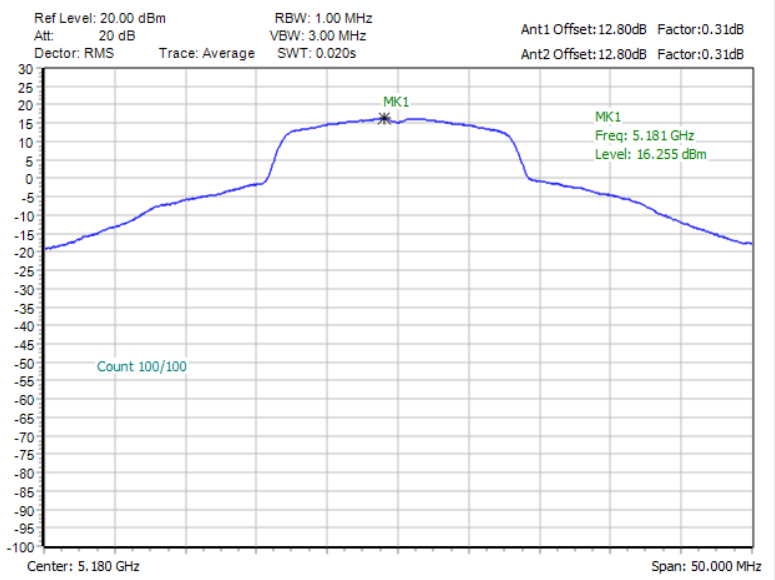


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

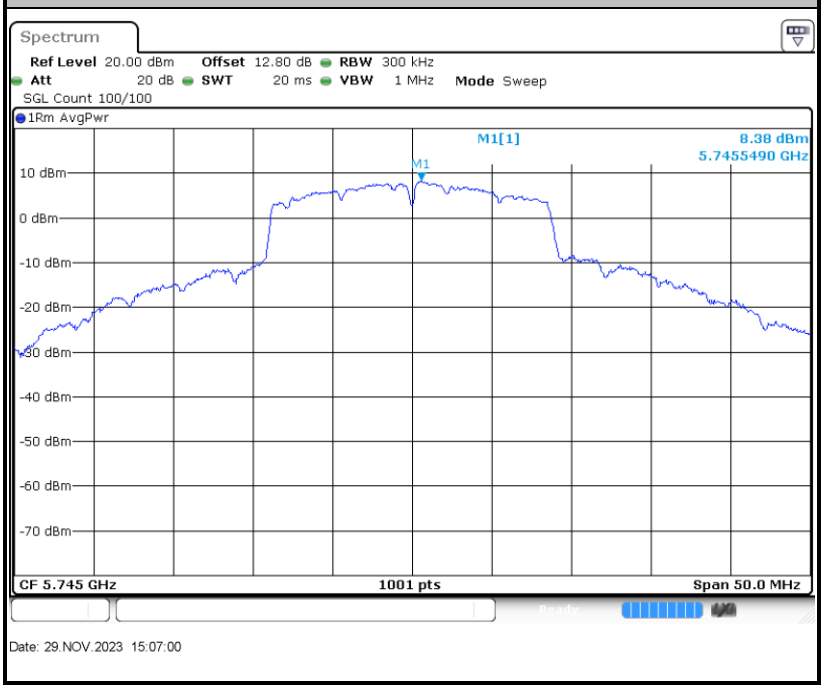
For devices operating in the bands UNII-1/2A/2C

Worst Case Power Density (dBm/MHz)

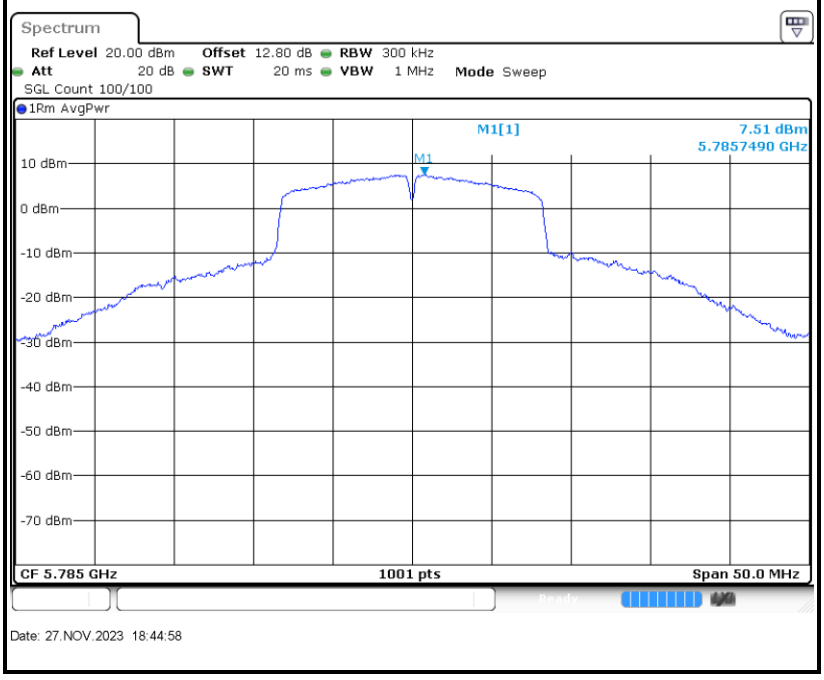


For devices operating in the band UNII-3

Worst Case Power Density (dBm/300kHz) for MIMO Ant.1



Worst Case Power Density (dBm/300kHz) for MIMO Ant.2



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	68.3

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

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

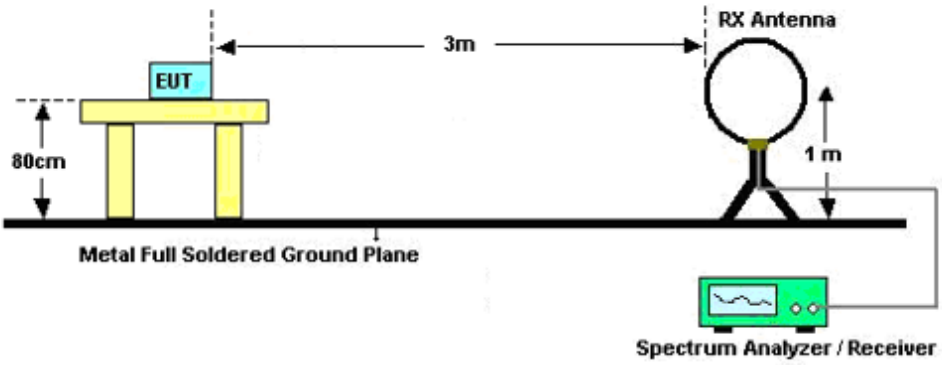
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

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

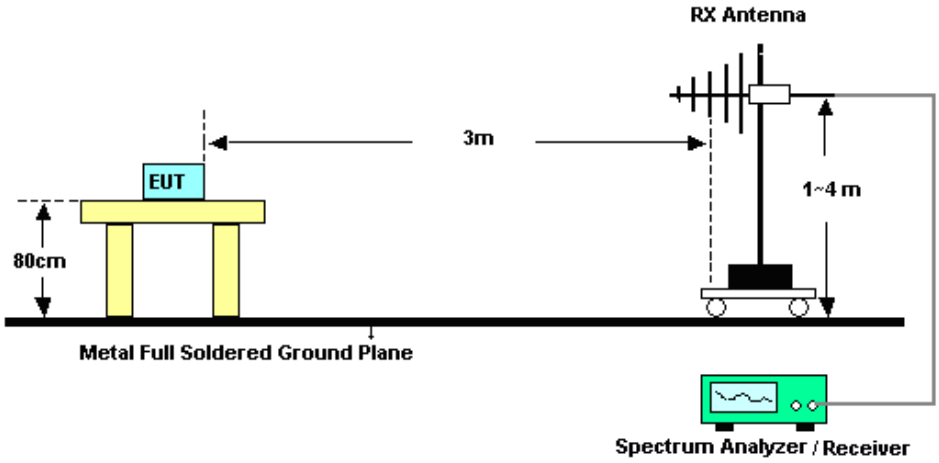
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter 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

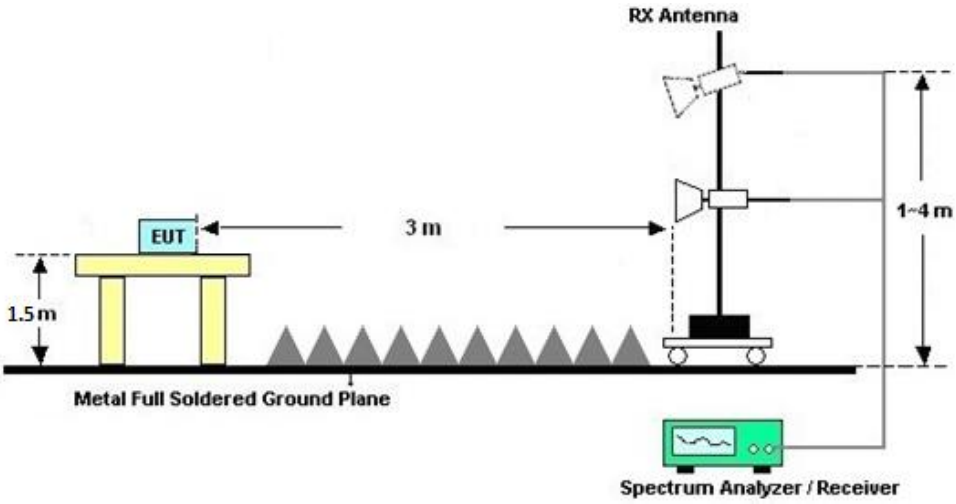
For radiated emissions below 30MHz



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.

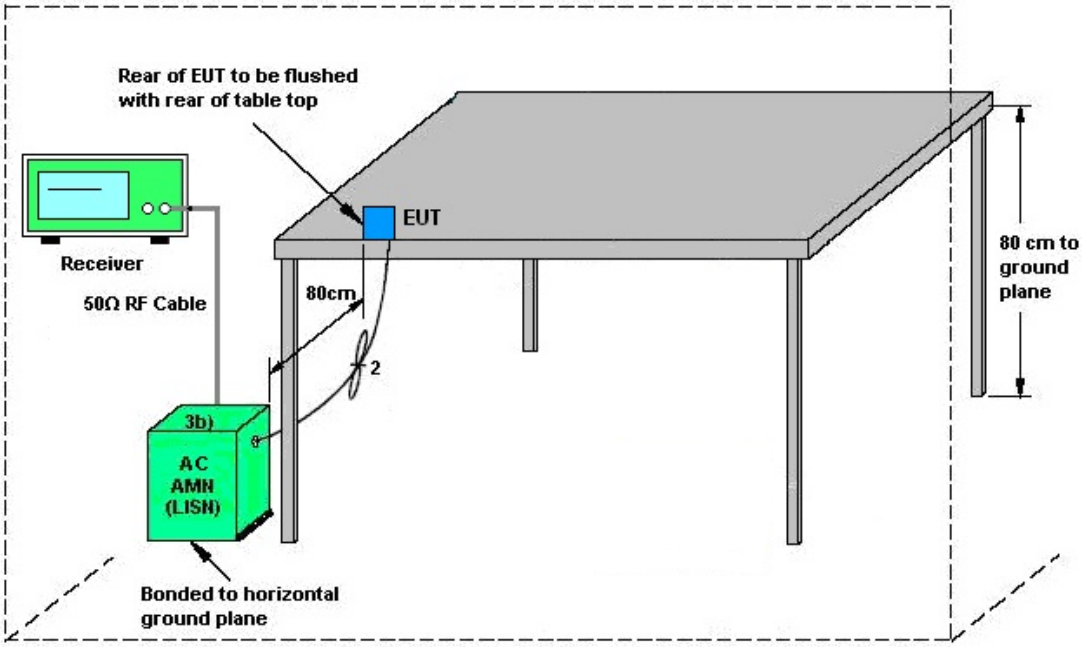
3.5.2 Measuring Instruments

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



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

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

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode for 802.11a/n/ac/ax modes.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
UNII-1	2.31	3.00	3.00	5.67	0.00	0.00
UNII-2A	2.54	2.78	2.78	5.67	0.00	0.00
UNII-2C	3.00	2.61	3.00	5.82	0.00	0.00
UNII-3	2.51	2.71	2.71	5.62	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For TXBF transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac/ax modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
UNII-1	2.31	3.00	5.67	5.67	0.00	0.00
UNII-2A	2.54	2.78	5.67	5.67	0.00	0.00
UNII-2C	3.00	2.61	5.82	5.82	0.00	0.00
UNII-3	2.51	2.71	5.62	5.62	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Nov. 27, 2023~ Nov. 29, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 27, 2022	Nov. 27, 2023~ Nov. 29, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 27, 2022	Nov. 27, 2023~ Nov. 29, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 04, 2023	Nov. 26, 2023~ Dec. 01, 2023	Apr. 03, 2024	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 04, 2023	Nov. 26, 2023~ Dec. 01, 2023	Apr. 03, 2024	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Nov. 26, 2023~ Dec. 01, 2023	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Nov. 26, 2023~ Dec. 01, 2023	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2023	Nov. 26, 2023~ Dec. 01, 2023	Apr. 07, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Nov. 26, 2023~ Dec. 01, 2023	Jul. 06, 2024	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2023	Nov. 26, 2023~ Dec. 01, 2023	Apr. 07, 2024	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Nov. 26, 2023~ Dec. 01, 2023	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Nov. 26, 2023~ Dec. 01, 2023	Oct. 17, 2024	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 26, 2022	Nov. 26, 2023~ Dec. 01, 2023	Dec. 25, 2023	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	1 N/A	Oct. 18, 2023	Nov. 26, 2023~ Dec. 01, 2023	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 26, 2023~ Dec. 01, 2023	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 26, 2023~ Dec. 01, 2023	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	Dec. 01, 2023	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Dec. 01, 2023	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Dec. 01, 2023	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	Dec. 01, 2023	Jul. 06, 2024	Conduction (CO01-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

Conducted Spurious Emission & Bandedge	**±1.34 dB**
Occupied Channel Bandwidth	**±0.1 %**
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))	**2.7dB**

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

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

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

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

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

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

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

Appendix A. Conducted Test Results

Test Engineer:	Liu Qiu Qiu	Temperature:	21~25	°C
Test Date:	2023/11/27~11/29	Relative Humidity:	51~54	%

<CDD Mode>:

Report Number : FR3N0708B

TEST RESULTS DATA
26dB and 99% OBW

U NII-1														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	26.82	27.42	28.38	22.14	-		23.01			
11a	6Mbps	2	44	5220	26.72	26.52	40.96	41.96	-		23.01			
11a	6Mbps	2	48	5240	16.63	16.58	28.44	28.62	-		22.20			
HE20	MCS0	2	36	5180	24.83	26.42	43.38	44.40	-		23.01			
HE20	MCS0	2	44	5220	25.47	26.07	43.32	44.08	-		23.01			
HE20	MCS0	2	48	5240	18.83	18.88	23.46	25.14	-		22.75			
HE40	MCS0	2	38	5190	37.26	37.26	39.96	40.08	-		23.01			
HE40	MCS0	2	46	5230	37.56	37.56	60.30	73.76	-		23.01			
HE80	MCS0	2	42	5210	76.60	76.72	81.12	81.84	-		23.01			

TEST RESULTS DATA
Average Power Table

U NII-1																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	Power Setting
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	Full	5180	0.31	0.31	21.37	21.18	24.29	30.00		3.00		Pass	1950
11a	6Mbps	2	40	Full	5200	0.31	0.31	24.20	24.32	27.27	30.00		3.00		Pass	2300
11a	6Mbps	2	44	Full	5220	0.31	0.31	24.31	24.46	27.40	30.00		3.00		Pass	2300
11a	6Mbps	2	48	Full	5240	0.31	0.31	21.84	21.99	24.93	30.00		3.00		Pass	2050
VHT20	MCS0	2	36	Full	5180	0.36	0.33	20.59	20.37	23.49	30.00		3.00		Pass	1900
VHT20	MCS0	2	40	Full	5200	0.36	0.33	24.21	24.37	27.30	30.00		3.00		Pass	2300
VHT20	MCS0	2	44	Full	5220	0.36	0.33	24.34	24.52	27.44	30.00		3.00		Pass	2300
VHT20	MCS0	2	48	Full	5240	0.36	0.33	21.55	21.69	24.63	30.00		3.00		Pass	2050
VHT40	MCS0	2	38	Full	5190	0.66	0.66	19.82	19.60	22.72	30.00		3.00		Pass	1800
VHT40	MCS0	2	46	Full	5230	0.66	0.66	21.81	22.01	24.92	30.00		3.00		Pass	2050
VHT80	MCS0	2	42	Full	5210	0.19	0.19	18.73	18.46	21.61	30.00		3.00		Pass	1650
HE20	MCS0	2	36	Full	5180	0.44	0.41	20.74	20.52	23.64	30.00		3.00		Pass	1900
			40	Full	5200	0.44	0.41	24.31	24.51	27.42	30.00		3.00		Pass	2300
			44	Full	5220	0.44	0.41	24.47	24.65	27.57	30.00		3.00		Pass	2300
			48	Full	5240	0.44	0.41	21.67	21.80	24.74	30.00		3.00		Pass	2050
HE40	MCS0	2	38	Full	5190	0.12	0.12	19.90	19.69	22.81	30.00		3.00		Pass	1800
			46	Full	5230	0.12	0.12	21.95	22.14	25.06	30.00		3.00		Pass	2050
HE80	MCS0	2	42	Full	5210	0.20	0.20	18.86	18.60	21.74	30.00		3.00		Pass	1650

TEST RESULTS DATA
Power Spectral Density

U NII-1																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	Full	5180	0.31	0.31			16.26	17.00		5.67		Pass
11a	6Mbps	2	44	Full	5220	0.31	0.31			15.85	17.00		5.67		Pass
11a	6Mbps	2	48	Full	5240	0.31	0.31			15.76	17.00		5.67		Pass
HE20	MCS0	2	36	Full	5180	0.44	0.41			15.55	17.00		5.67		Pass
HE20	MCS0	2	44	Full	5220	0.44	0.41			15.39	17.00		5.67		Pass
HE20	MCS0	2	48	Full	5240	0.44	0.41			15.46	17.00		5.67		Pass
HE40	MCS0	2	38	Full	5190	0.12	0.12			13.05	17.00		5.67		Pass
HE40	MCS0	2	46	Full	5230	0.12	0.12			12.75	17.00		5.67		Pass
HE80	MCS0	2	42	Full	5210	0.20	0.20			10.15	17.00		5.67		Pass

TEST RESULTS DATA
26dB and 99% OBW

U NII-2A																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	16.33	16.33	21.90	20.70	23.13		29.13		23.98		
11a	6Mbps	2	60	5300	16.28	16.23	18.54	18.36	23.10		29.10		23.64		
11a	6Mbps	2	64	5320	16.28	16.23	18.60	18.30	23.10		29.10		23.62		
HE20	MCS0	2	52	5260	18.73	18.73	20.46	20.46	23.73		29.73		23.98		
HE20	MCS0	2	60	5300	18.73	18.73	20.52	20.40	23.73		29.73		23.98		
HE20	MCS0	2	64	5320	18.73	18.73	20.46	20.40	23.73		29.73		23.98		
HE40	MCS0	2	54	5270	37.36	37.36	39.96	40.44	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	37.26	37.36	39.96	39.96	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	77.20	77.20	116.35	113.30	23.98		30.00		23.98		

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TEST RESULTS DATA
Average Power Table

U NII-2A																	
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
11a	6Mbps	2	52	Full	5260	0.31	0.31	18.36	18.29	21.34	23.98		2.78		30	Pass	1650
11a	6Mbps	2	60	Full	5300	0.31	0.31	18.00	18.03	21.03	23.64		2.78		30	Pass	1700
11a	6Mbps	2	64	Full	5320	0.31	0.31	17.96	17.94	20.96	23.62		2.78		30	Pass	1700
VHT20	MCS0	2	52	Full	5260	0.36	0.33	18.69	18.49	21.60	23.98		2.78		30	Pass	1700
VHT20	MCS0	2	60	Full	5300	0.36	0.33	18.06	18.04	21.06	23.98		2.78		30	Pass	1700
VHT20	MCS0	2	64	Full	5320	0.36	0.33	18.02	17.95	20.99	23.98		2.78		30	Pass	1700
VHT40	MCS0	2	54	Full	5270	0.66	0.66	20.62	20.52	23.58	23.98		2.78		30	Pass	1850
VHT40	MCS0	2	62	Full	5310	0.66	0.66	20.39	20.20	23.30	23.98		2.78		30	Pass	1850
VHT80	MCS0	2	58	Full	5290	0.19	0.19	18.86	18.72	21.81	23.98		2.78		30	Pass	1700
HE20	MCS0	2	52	Full	5260	0.44	0.41	18.81	18.64	21.73	23.73		2.78		30	Pass	1700
			60	Full	5300	0.44	0.41	18.19	18.18	21.19	23.73		2.78		30	Pass	1700
			64	Full	5320	0.44	0.41	18.16	18.09	21.13	23.73		2.78		30	Pass	1700
HE40	MCS0	2	54	Full	5270	0.12	0.12	20.70	20.59	23.66	23.98		2.78		30	Pass	1850
			62	Full	5310	0.12	0.12	20.45	20.25	23.36	23.98		2.78		30	Pass	1850
HE80	MCS0	2	58	Full	5290	0.20	0.20	19.00	18.85	21.93	23.98		2.78		30	Pass	1700

TEST RESULTS DATA
Power Spectral Density

U NII-2A																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	Full	5260	0.31	0.31			10.42	11.00		5.67		Pass
11a	6Mbps	2	60	Full	5300	0.31	0.31			10.67	11.00		5.67		Pass
11a	6Mbps	2	64	Full	5320	0.31	0.31			10.56	11.00		5.67		Pass
HE20	MCS0	2	52	Full	5260	0.44	0.41			10.50	11.00		5.67		Pass
HE20	MCS0	2	60	Full	5300	0.44	0.41			10.58	11.00		5.67		Pass
HE20	MCS0	2	64	Full	5320	0.44	0.41			10.55	11.00		5.67		Pass
HE40	MCS0	2	54	Full	5270	0.12	0.12			9.84	11.00		5.67		Pass
HE40	MCS0	2	62	Full	5310	0.12	0.12			9.45	11.00		5.67		Pass
HE80	MCS0	2	58	Full	5290	0.20	0.20			7.61	11.00		5.67		Pass

TEST RESULTS DATA
26dB and 99% OBW

U NII-2C															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	16.38	16.28	22.02	21.90	23.12		29.12		23.98		
11a	6Mbps	2	116	5580	16.38	16.33	22.02	21.96	23.13		29.13		23.98		
11a	6Mbps	2	140	5700	16.38	16.33	25.68	21.96	23.13		29.13		23.98		
11a	6Mbps	2	144	5720	16.23	16.18	18.54	18.30	23.09		29.09		23.62		
HE20	MCS0	2	100	5500	18.78	18.73	20.40	20.46	23.73		29.73		23.98		
HE20	MCS0	2	116	5580	18.83	18.78	25.02	20.52	23.74		29.74		23.98		
HE20	MCS0	2	140	5700	18.78	18.83	22.68	22.44	23.74		29.74		23.98		
HE20	MCS0	2	144	5720	18.68	18.68	20.46	20.34	23.71		29.71		23.98		
HE40	MCS0	2	102	5510	37.36	37.36	40.08	40.32	23.98		30.00		23.98		
HE40	MCS0	2	110	5550	37.36	37.46	41.28	40.08	23.98		30.00		23.98		
HE40	MCS0	2	134	5670	37.36	37.46	39.96	46.80	23.98		30.00		23.98		
HE40	MCS0	2	142	5710	37.26	37.26	39.96	40.08	23.98		30.00		23.98		
HE80	MCS0	2	106	5530	77.32	77.20	115.47	101.79	23.98		30.00		23.98		
HE80	MCS0	2	122	5610	77.44	77.32	116.27	115.46	23.98		30.00		23.98		
HE80	MCS0	2	138	5690	76.84	76.84	98.64	98.40	23.98		30.00		23.98		

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TEST RESULTS DATA
Average Power Table

U NII-2C																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
11a	6Mbps	2	100	Full	5500	0.31	0.31	18.42	18.36	21.40	23.98		3.00		30	Pass	1650
11a	6Mbps	2	116	Full	5580	0.31	0.31	18.65	18.65	21.66	23.98		3.00		30	Pass	1650
11a	6Mbps	2	140	Full	5700	0.31	0.31	18.31	18.15	21.24	23.98		3.00		30	Pass	1650
11a	6Mbps	2	144	Full	5720	0.31	0.31	18.32	17.94	21.15	23.62		3.00		30	Pass	1650
VHT20	MCS0	2	100	Full	5500	0.36	0.33	18.56	18.43	21.50	23.98		3.00		30	Pass	1700
VHT20	MCS0	2	116	Full	5580	0.36	0.33	18.84	18.72	21.79	23.98		3.00		30	Pass	1700
VHT20	MCS0	2	140	Full	5700	0.36	0.33	18.39	18.31	21.36	23.98		3.00		30	Pass	1700
VHT20	MCS0	2	144	Full	5720	0.36	0.33	18.64	18.18	21.43	23.98		3.00		30	Pass	1700
VHT40	MCS0	2	102	Full	5510	0.66	0.66	20.77	20.48	23.63	23.98		3.00		30	Pass	1850
VHT40	MCS0	2	110	Full	5550	0.66	0.66	20.73	20.76	23.75	23.98		3.00		30	Pass	1850
VHT40	MCS0	2	134	Full	5670	0.66	0.66	20.84	20.33	23.60	23.98		3.00		30	Pass	1850
VHT40	MCS0	2	142	Full	5710	0.66	0.66	20.43	20.08	23.26	23.98		3.00		30	Pass	1850
VHT80	MCS0	2	106	Full	5530	0.19	0.19	19.49	19.00	22.27	23.98		3.00		30	Pass	1700
VHT80	MCS0	2	122	Full	5610	0.19	0.19	20.90	20.26	23.61	23.98		3.00		30	Pass	1800
VHT80	MCS0	2	138	Full	5690	0.19	0.19	20.56	20.15	23.37	23.98		3.00		30	Pass	1800
HE20	MCS0	2	100	Full	5500	0.44	0.41	18.70	18.57	21.64	23.98		3.00		30	Pass	1700
			116	Full	5580	0.44	0.41	18.99	18.87	21.94	23.98		3.00		30	Pass	1700
			140	Full	5700	0.44	0.41	18.55	18.46	21.51	23.98		3.00		30	Pass	1700
			144	Full	5720	0.44	0.41	18.80	18.25	21.54	23.98		3.00		30	Pass	1700
HE40	MCS0	2	102	Full	5510	0.12	0.12	20.84	20.52	23.69	23.98		3.00		30	Pass	1850
			110	Full	5550	0.12	0.12	20.77	20.83	23.81	23.98		3.00		30	Pass	1850
			134	Full	5670	0.12	0.12	20.94	20.38	23.68	23.98		3.00		30	Pass	1850
			142	Full	5710	0.12	0.12	20.63	20.17	23.42	23.98		3.00		30	Pass	1850
HE80	MCS0	2	106	Full	5530	0.20	0.20	19.62	19.15	22.40	23.98		3.00		30	Pass	1700
			122	Full	5610	0.20	0.20	21.03	20.31	23.69	23.98		3.00		30	Pass	1800
			138	Full	5690	0.20	0.20	20.64	20.25	23.46	23.98		3.00		30	Pass	1800

TEST RESULTS DATA
Power Spectral Density

U NII-2C																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	Full	5500	0.31	0.31			10.68	11.00		5.82		Pass
11a	6Mbps	2	116	Full	5580	0.31	0.31			10.62	11.00		5.82		Pass
11a	6Mbps	2	140	Full	5700	0.31	0.31			10.33	11.00		5.82		Pass
11a	6Mbps	2	144	Full	5720	0.31	0.31			10.47	11.00		5.82		Pass
HE20	MCS0	2	100	Full	5500	0.44	0.41			10.57	11.00		5.82		Pass
HE20	MCS0	2	116	Full	5580	0.44	0.41			10.75	11.00		5.82		Pass
HE20	MCS0	2	140	Full	5700	0.44	0.41			10.39	11.00		5.82		Pass
HE20	MCS0	2	144	Full	5720	0.44	0.41			10.48	11.00		5.82		Pass
HE40	MCS0	2	102	Full	5510	0.12	0.12			9.46	11.00		5.82		Pass
HE40	MCS0	2	110	Full	5550	0.12	0.12			9.60	11.00		5.82		Pass
HE40	MCS0	2	134	Full	5670	0.12	0.12			9.26	11.00		5.82		Pass
HE40	MCS0	2	142	Full	5710	0.12	0.12			9.45	11.00		5.82		Pass
HE80	MCS0	2	106	Full	5530	0.20	0.20			7.76	11.00		5.82		Pass
HE80	MCS0	2	122	Full	5610	0.20	0.20			7.52	11.00		5.82		Pass
HE80	MCS0	2	138	Full	5690	0.20	0.20			7.01	11.00		5.82		Pass

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

U NII-3													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	27.77	25.67	41.86	38.68	15.20	15.20	0.5		Pass
11a	6Mbps	2	157	5785	26.97	25.82	41.92	38.50	15.20	13.95	0.5		Pass
11a	6Mbps	2	165	5825	26.52	26.32	40.08	38.26	15.20	15.25	0.5		Pass
HE20	MCS0	2	149	5745	26.82	25.72	43.76	43.58	15.20	15.15	0.5		Pass
HE20	MCS0	2	157	5785	25.27	24.73	43.44	44.08	15.20	15.20	0.5		Pass
HE20	MCS0	2	165	5825	24.03	23.63	43.06	43.86	15.95	15.25	0.5		Pass
HE40	MCS0	2	151	5755	49.05	48.95	88.76	88.71	32.76	34.02	0.5		Pass
HE40	MCS0	2	159	5795	49.15	48.45	88.51	85.16	32.76	32.76	0.5		Pass
HE80	MCS0	2	155	5775	85.71	82.96	184.22	172.55	71.68	72.96	0.5		Pass

TEST RESULTS DATA
Average Power Table

U NII-3																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	Power Setting
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	149	Full	5745	0.31	0.31	23.96	23.45	26.72	30.00		2.71		Pass	2300
11a	6Mbps	2	157	Full	5785	0.31	0.31	23.94	23.34	26.66	30.00		2.71		Pass	2300
11a	6Mbps	2	165	Full	5825	0.31	0.31	23.91	22.95	26.47	30.00		2.71		Pass	2300
VHT20	MCS0	2	149	Full	5745	0.36	0.33	23.98	23.46	26.74	30.00		2.71		Pass	2300
VHT20	MCS0	2	157	Full	5785	0.36	0.33	23.97	23.36	26.68	30.00		2.71		Pass	2300
VHT20	MCS0	2	165	Full	5825	0.36	0.33	23.93	23.02	26.51	30.00		2.71		Pass	2300
VHT40	MCS0	2	151	Full	5755	0.66	0.66	24.25	22.57	26.50	30.00		2.71		Pass	2300
VHT40	MCS0	2	159	Full	5795	0.66	0.66	24.22	23.37	26.82	30.00		2.71		Pass	2300
VHT80	MCS0	2	155	Full	5775	0.19	0.19	23.37	22.97	26.19	30.00		2.71		Pass	2100
HE20	MCS0	2	149	Full	5745	0.44	0.41	24.10	23.58	26.85	30.00		2.71		Pass	2300
HE20	MCS0	2	157	Full	5785	0.44	0.41	24.10	23.51	26.82	30.00		2.71		Pass	2300
HE20	MCS0	2	165	Full	5825	0.44	0.41	24.07	23.16	26.65	30.00		2.71		Pass	2300
HE40	MCS0	2	151	Full	5755	0.12	0.12	24.39	22.60	26.60	30.00		2.71		Pass	2300
HE40	MCS0	2	159	Full	5795	0.12	0.12	24.35	23.54	26.97	30.00		2.71		Pass	2300
HE80	MCS0	2	155	Full	5775	0.20	0.20	23.53	23.16	26.36	30.00		2.71		Pass	2100

TEST RESULTS DATA
Power Spectral Density

U NII-3																		
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	Full	5745	0.31	0.31	2.22		10.41	9.75	13.42	30.00		5.62		Pass
11a	6Mbps	2	157	Full	5785	0.31	0.31	2.22		10.68	10.04	13.69	30.00		5.62		Pass
11a	6Mbps	2	165	Full	5825	0.31	0.31	2.22		10.59	9.76	13.60	30.00		5.62		Pass
HE20	MCS0	2	149	Full	5745	0.44	0.41	2.22		10.26	9.75	13.27	30.00		5.62		Pass
HE20	MCS0	2	157	Full	5785	0.44	0.41	2.22		10.37	9.64	13.38	30.00		5.62		Pass
HE20	MCS0	2	165	Full	5825	0.44	0.41	2.22		10.34	9.57	13.35	30.00		5.62		Pass
HE40	MCS0	2	151	Full	5755	0.12	0.12	2.22		7.16	6.37	10.17	30.00		5.62		Pass
HE40	MCS0	2	159	Full	5795	0.12	0.12	2.22		7.17	6.64	10.18	30.00		5.62		Pass
HE80	MCS0	2	155	Full	5775	0.20	0.00	2.22		4.65	3.77	7.66	30.00		5.62		Pass

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Report Number : FR3N0708B

TEST RESULTS DATA
Average Power Table

U NII-1																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	Power Setting
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
VHT20	MCS0	2	36	Full	5180	0.36	0.33	20.59	20.37	23.49	30.00		5.67		Pass	1900
VHT20	MCS0	2	40	Full	5200	0.36	0.33	24.21	24.37	27.30	30.00		5.67		Pass	2300
VHT20	MCS0	2	44	Full	5220	0.36	0.33	24.34	24.52	27.44	30.00		5.67		Pass	2300
VHT20	MCS0	2	48	Full	5240	0.36	0.33	21.55	21.69	24.63	30.00		5.67		Pass	2050
VHT40	MCS0	2	38	Full	5190	0.66	0.66	19.82	19.60	22.72	30.00		5.67		Pass	1800
VHT40	MCS0	2	46	Full	5230	0.66	0.66	21.81	22.01	24.92	30.00		5.67		Pass	2050
VHT80	MCS0	2	42	Full	5210	0.19	0.19	18.73	18.46	21.61	30.00		5.67		Pass	1650
HE20	MCS0	2	36	Full	5180	0.44	0.41	20.74	20.52	23.64	30.00		5.67		Pass	1900
			40	Full	5200	0.44	0.41	24.31	24.51	27.42	30.00		5.67		Pass	2300
			44	Full	5220	0.44	0.41	24.47	24.65	27.57	30.00		5.67		Pass	2300
			48	Full	5240	0.44	0.41	21.67	21.80	24.74	30.00		5.67		Pass	2050
HE40	MCS0	2	38	Full	5190	0.12	0.12	19.90	19.69	22.81	30.00		5.67		Pass	1800
			46	Full	5230	0.12	0.12	21.95	22.14	25.06	30.00		5.67		Pass	2050
HE80	MCS0	2	42	Full	5210	0.20	0.20	18.86	18.60	21.74	30.00		5.67		Pass	1650

Report Number : FR3N0708B

TEST RESULTS DATA
Average Power Table

U NII-2A																	
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
VHT20	MCS0	2	52	Full	5260	0.36	0.33	18.69	18.49	21.60	23.98		5.67		30	Pass	1700
VHT20	MCS0	2	60	Full	5300	0.36	0.33	18.06	18.04	21.06	23.98		5.67		30	Pass	1700
VHT20	MCS0	2	64	Full	5320	0.36	0.33	18.02	17.95	20.99	23.98		5.67		30	Pass	1700
VHT40	MCS0	2	54	Full	5270	0.66	0.66	20.62	20.52	23.58	23.98		5.67		30	Pass	1850
VHT40	MCS0	2	62	Full	5310	0.66	0.66	20.39	20.20	23.30	23.98		5.67		30	Pass	1850
VHT80	MCS0	2	58	Full	5290	0.19	0.19	18.86	18.72	21.81	23.98		5.67		30	Pass	1700
HE20	MCS0	2	52	Full	5260	0.44	0.41	18.81	18.64	21.73	23.73		5.67		30	Pass	1700
			60	Full	5300	0.44	0.41	18.19	18.18	21.19	23.73		5.67		30	Pass	1700
			64	Full	5320	0.44	0.41	18.16	18.09	21.13	23.73		5.67		30	Pass	1700
HE40	MCS0	2	54	Full	5270	0.12	0.12	20.70	20.59	23.66	23.98		5.67		30	Pass	1850
			62	Full	5310	0.12	0.12	20.45	20.25	23.36	23.98		5.67		30	Pass	1850
HE80	MCS0	2	58	Full	5290	0.20	0.20	19.00	18.85	21.93	23.98		5.67		30	Pass	1700

TEST RESULTS DATA
Average Power Table

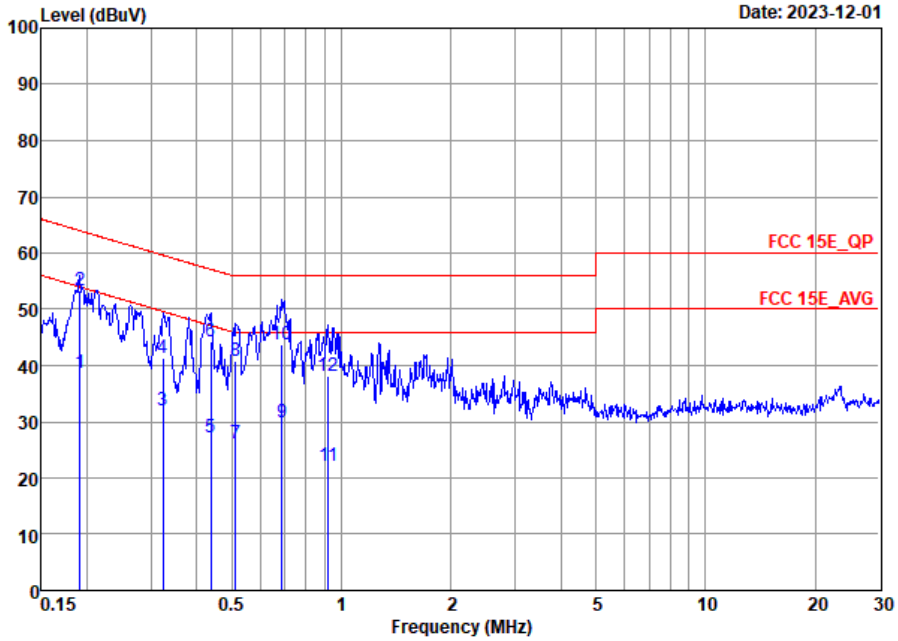
U NII-2C																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
VHT20	MCS0	2	100	Full	5500	0.36	0.33	18.56	18.43	21.50	23.98		5.82		30	Pass	1700
VHT20	MCS0	2	116	Full	5580	0.36	0.33	18.84	18.72	21.79	23.98		5.82		30	Pass	1700
VHT20	MCS0	2	140	Full	5700	0.36	0.33	18.39	18.31	21.36	23.98		5.82		30	Pass	1700
VHT20	MCS0	2	144	Full	5720	0.36	0.33	18.64	18.18	21.43	23.98		5.82		30	Pass	1700
VHT40	MCS0	2	102	Full	5510	0.66	0.66	20.77	20.48	23.63	23.98		5.82		30	Pass	1850
VHT40	MCS0	2	110	Full	5550	0.66	0.66	20.73	20.76	23.75	23.98		5.82		30	Pass	1850
VHT40	MCS0	2	134	Full	5670	0.66	0.66	20.84	20.33	23.60	23.98		5.82		30	Pass	1850
VHT40	MCS0	2	142	Full	5710	0.66	0.66	20.43	20.08	23.26	23.98		5.82		30	Pass	1850
VHT80	MCS0	2	106	Full	5530	0.19	0.19	19.49	19.00	22.27	23.98		5.82		30	Pass	1700
VHT80	MCS0	2	122	Full	5610	0.19	0.19	20.90	20.26	23.61	23.98		5.82		30	Pass	1800
VHT80	MCS0	2	138	Full	5690	0.19	0.19	20.56	20.15	23.37	23.98		5.82		30	Pass	1800
HE20	MCS0	2	100	Full	5500	0.44	0.41	18.70	18.57	21.64	23.98		5.82		30	Pass	1700
			116	Full	5580	0.44	0.41	18.99	18.87	21.94	23.98		5.82		30	Pass	1700
			140	Full	5700	0.44	0.41	18.55	18.46	21.51	23.98		5.82		30	Pass	1700
			144	Full	5720	0.44	0.41	18.80	18.25	21.54	23.98		5.82		30	Pass	1700
HE40	MCS0	2	102	Full	5510	0.12	0.12	20.84	20.52	23.69	23.98		5.82		30	Pass	1850
			110	Full	5550	0.12	0.12	20.77	20.83	23.81	23.98		5.82		30	Pass	1850
			134	Full	5670	0.12	0.12	20.94	20.38	23.68	23.98		5.82		30	Pass	1850
			142	Full	5710	0.12	0.12	20.63	20.17	23.42	23.98		5.82		30	Pass	1850
HE80	MCS0	2	106	Full	5530	0.20	0.20	19.62	19.15	22.40	23.98		5.82		30	Pass	1700
			122	Full	5610	0.20	0.20	21.03	20.31	23.69	23.98		5.82		30	Pass	1800
			138	Full	5690	0.20	0.20	20.64	20.25	23.46	23.98		5.82		30	Pass	1800

TEST RESULTS DATA
Average Power Table

U NII-3																	
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	Power Setting
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
VHT20	MCS0	2	149	Full	5745	0.36	0.33	23.98	23.46	26.74	30.00		5.62		Pass	2300
VHT20	MCS0	2	157	Full	5785	0.36	0.33	23.97	23.36	26.68	30.00		5.62		Pass	2300
VHT20	MCS0	2	165	Full	5825	0.36	0.33	23.93	23.02	26.51	30.00		5.62		Pass	2300
VHT40	MCS0	2	151	Full	5755	0.66	0.66	24.25	22.57	26.50	30.00		5.62		Pass	2300
VHT40	MCS0	2	159	Full	5795	0.66	0.66	24.22	23.37	26.82	30.00		5.62		Pass	2300
VHT80	MCS0	2	155	Full	5775	0.19	0.19	23.37	22.97	26.19	30.00		5.62		Pass	2100
HE20	MCS0	2	149	Full	5745	0.44	0.41	24.10	23.58	26.85	30.00		5.62		Pass	2300
HE20	MCS0	2	157	Full	5785	0.44	0.41	24.10	23.51	26.82	30.00		5.62		Pass	2300
HE20	MCS0	2	165	Full	5825	0.44	0.41	24.07	23.16	26.65	30.00		5.62		Pass	2300
HE40	MCS0	2	151	Full	5755	0.12	0.12	24.39	22.60	26.60	30.00		5.62		Pass	2300
HE40	MCS0	2	159	Full	5795	0.12	0.12	24.35	23.54	26.97	30.00		5.62		Pass	2300
HE80	MCS0	2	155	Full	5775	0.20	0.20	23.53	23.16	26.36	30.00		5.62		Pass	2100

Appendix B. AC Conducted Emission Test Results

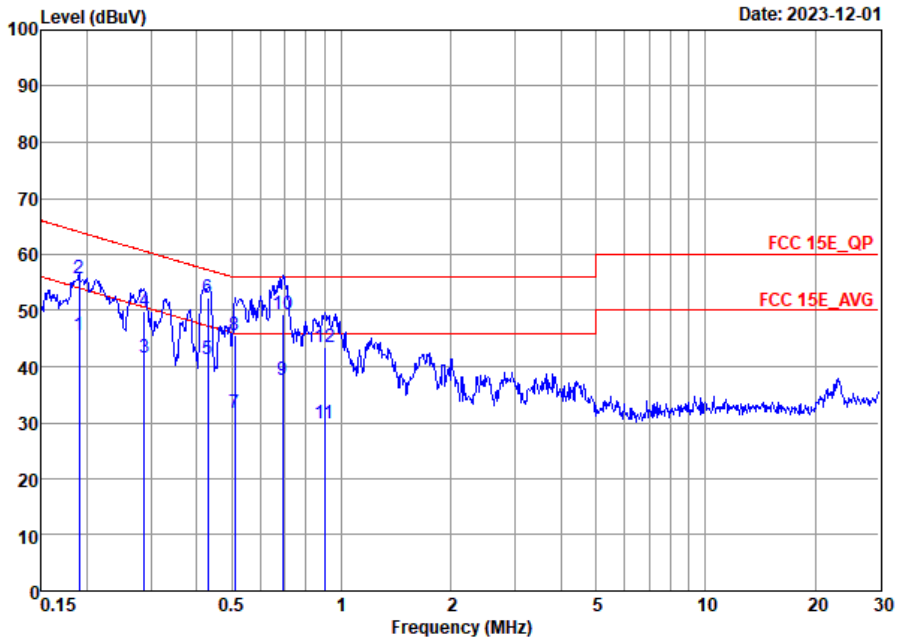
Test Engineer :	FangMing Liang	**Temperature :**	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15E_QP AC LISN 100063_L LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.19	38.67	-15.31	53.98	18.10	10.42	10.15	Average
2	*	0.19	53.37	-10.61	63.98	32.80	10.42	10.15	QP
3		0.32	31.89	-17.73	49.62	11.60	10.13	10.16	Average
4		0.32	41.39	-18.23	59.62	21.10	10.13	10.16	QP
5		0.44	27.23	-19.88	47.11	6.70	10.37	10.16	Average
6		0.44	44.33	-12.78	57.11	23.80	10.37	10.16	QP
7		0.51	26.01	-19.99	46.00	5.60	10.25	10.16	Average
8		0.51	40.91	-15.09	56.00	20.50	10.25	10.16	QP
9		0.69	29.84	-16.16	46.00	9.80	9.88	10.16	Average
10		0.69	43.84	-12.16	56.00	23.80	9.88	10.16	QP
11		0.92	22.03	-23.97	46.00	1.50	10.37	10.16	Average
12		0.92	38.03	-17.97	56.00	17.50	10.37	10.16	QP

Test Engineer :	FangMing Liang	**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 : CO01-SZ
Condition: FCC 15E_QP AC LISN 100063_N NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.19	45.59	-8.43	54.02	25.10	10.34	10.15	Average
2		0.19	55.69	-8.33	64.02	35.20	10.34	10.15	QP
3		0.29	41.56	-9.03	50.59	21.01	10.40	10.15	Average
4		0.29	49.76	-10.83	60.59	29.21	10.40	10.15	QP
5		0.43	41.45	-5.79	47.24	21.30	9.99	10.16	Average
6	*	0.43	52.15	-5.09	57.24	32.00	9.99	10.16	QP
7		0.51	31.79	-14.21	46.00	11.50	10.13	10.16	Average
8		0.51	45.49	-10.51	56.00	25.20	10.13	10.16	QP
9		0.69	37.50	-8.50	46.00	17.00	10.34	10.16	Average
10		0.69	49.30	-6.70	56.00	28.80	10.34	10.16	QP
11		0.90	29.85	-16.15	46.00	9.30	10.39	10.16	Average
12		0.90	43.35	-12.65	56.00	22.80	10.39	10.16	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 :	Huang Weiwei	Relative Humidity :	50%
		Temperature :	20-24℃

Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	UNII 1	5.15-5.25	CDD 1+2	802.11a	CH36	5180	6Mbps	-	-
Mode 2	UNII 1	5.15-5.25	CDD 1+2	802.11a	CH44	5220	6Mbps	-	-
Mode 3	UNII 1	5.15-5.25	CDD 1+2	802.11a	CH48	5240	6Mbps	-	-
Mode 4	UNII 2A	5.25-5.35	CDD 1+2	802.11a	CH52	5260	6Mbps	-	-
Mode 5	UNII 2A	5.25-5.35	CDD 1+2	802.11a	CH60	5300	6Mbps	-	-
Mode 6	UNII 2A	5.25-5.35	CDD 1+2	802.11a	CH64	5320	6Mbps	-	-
Mode 7	UNII 2C	5.47-5.725	CDD 1+2	802.11a	CH100	5500	6Mbps	-	-
Mode 8	UNII 2C	5.47-5.725	CDD 1+2	802.11a	CH116	5580	6Mbps	-	-
Mode 9	UNII 2C	5.47-5.725	CDD 1+2	802.11a	CH140	5700	6Mbps	-	-
Mode 10	UNII 1	5.15-5.25	CDD 1+2	802.11ax HE20	CH36	5180	MCS0	Full RU	-
Mode 11	UNII 1	5.15-5.25	CDD 1+2	802.11ax HE20	CH44	5220	MCS0	Full RU	-
Mode 12	UNII 1	5.15-5.25	CDD 1+2	802.11ax HE20	CH48	5240	MCS0	Full RU	-
Mode 13	UNII 2A	5.25-5.35	CDD 1+2	802.11ax HE20	CH52	5260	MCS0	Full RU	-
Mode 14	UNII 2A	5.25-5.35	CDD 1+2	802.11ax HE20	CH60	5300	MCS0	Full RU	-
Mode 15	UNII 2A	5.25-5.35	CDD 1+2	802.11ax HE20	CH64	5320	MCS0	Full RU	-
Mode 16	UNII 2C	5.47-5.725	CDD 1+2	802.11ax HE20	CH100	5500	MCS0	Full RU	-
Mode 17	UNII 2C	5.47-5.725	CDD 1+2	802.11ax HE20	CH116	5580	MCS0	Full RU	-
Mode 18	UNII 2C	5.47-5.725	CDD 1+2	802.11ax HE20	CH140	5700	MCS0	Full RU	-
Mode 19	UNII 1	5.15-5.25	CDD 1+2	802.11ax HE40	CH38	5190	MCS0	Full RU	-
Mode 20	UNII 1	5.15-5.25	CDD 1+2	802.11ax HE40	CH46	5230	MCS0	Full RU	-
Mode 21	UNII 2A	5.25-5.35	CDD 1+2	802.11ax HE40	CH54	5270	MCS0	Full RU	-
Mode 22	UNII 2A	5.25-5.35	CDD 1+2	802.11ax HE40	CH62	5310	MCS0	Full RU	-
Mode 23	UNII 2C	5.47-5.725	CDD 1+2	802.11ax HE40	CH102	5510	MCS0	Full RU	-
Mode 24	UNII 2C	5.47-5.725	CDD 1+2	802.11ax HE40	CH110	5550	MCS0	Full RU	-
Mode 25	UNII 2C	5.47-5.725	CDD 1+2	802.11ax HE40	CH134	5670	MCS0	Full RU	-
Mode 26	UNII 1	5.15-5.25	CDD 1+2	802.11ax HE80	CH42	5210	MCS0	Full RU	-
Mode 27	UNII 2A	5.25-5.35	CDD 1+2	802.11ax HE80	CH58	5290	MCS0	Full RU	-
Mode 28	UNII 2C	5.47-5.725	CDD 1+2	802.11ax HE80	CH106	5530	MCS0	Full RU	-
Mode 29	UNII 2C	5.47-5.725	CDD 1+2	802.11ax HE80	CH122	5610	MCS0	Full RU	-
Mode 30	UNII 3	5.725-5.85	CDD 1+2	802.11a	CH149	5745	6Mbps	-	-
Mode 31	UNII 3	5.725-5.85	CDD 1+2	802.11a	CH157	5785	6Mbps	-	-

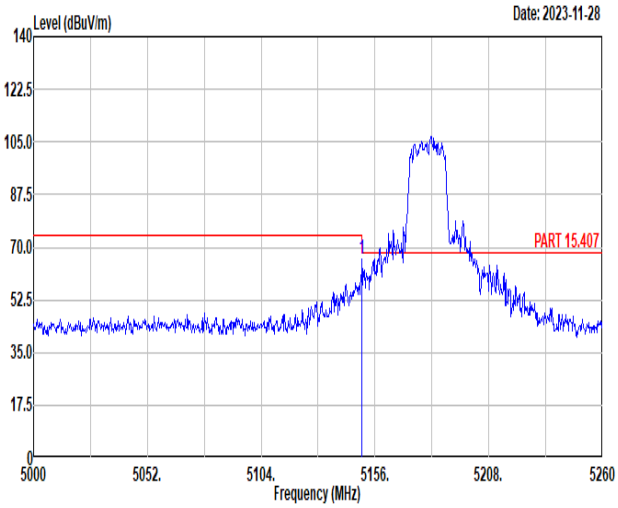
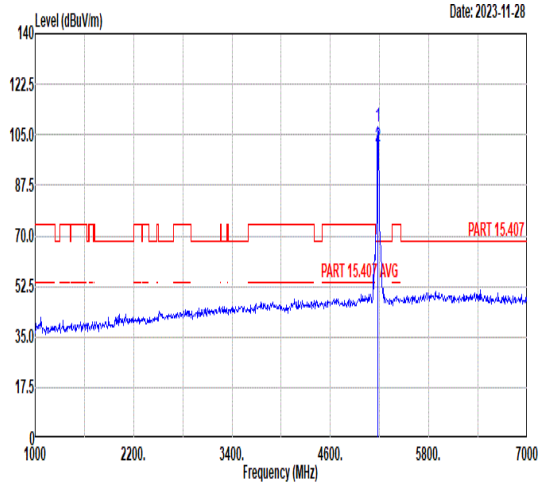
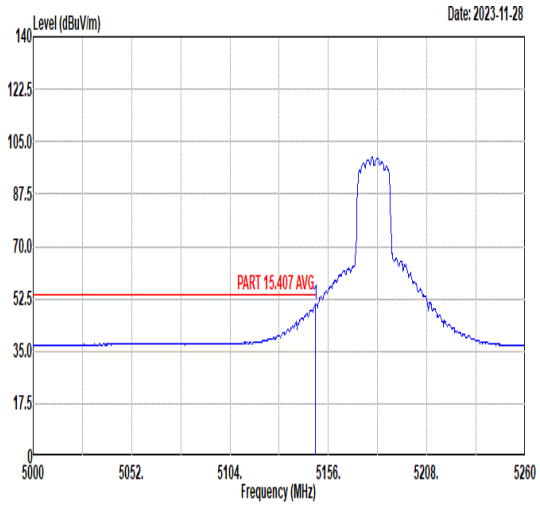
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 32	UNII 3	5.725-5.85	CDD 1+2	802.11a	CH165	5825	6Mbps	-	-
Mode 33	UNII 3	5.725-5.85	CDD 1+2	802.11ax HE20	CH149	5745	MCS0	Full RU	-
Mode 34	UNII 3	5.725-5.85	CDD 1+2	802.11ax HE20	CH157	5785	MCS0	Full RU	-
Mode 35	UNII 3	5.725-5.85	CDD 1+2	802.11ax HE20	CH165	5825	MCS0	Full RU	-
Mode 36	UNII 3	5.725-5.85	CDD 1+2	802.11ax HE40	CH151	5755	MCS0	Full RU	-
Mode 37	UNII 3	5.725-5.85	CDD 1+2	802.11ax HE40	CH159	5795	MCS0	Full RU	-
Mode 38	UNII 3	5.725-5.85	CDD 1+2	802.11ax HE80	CH155	5775	MCS0	Full RU	-
Mode 39	UNII 2A	5.25-5.35	CDD 1+2	802.11ax HE80	CH58	5290	MCS0	LF	-
Mode 40	UNII 3	5.725-5.85	CDD 1+2	802.11ax HE80	CH155	5775	MCS0	LF	-
Mode 43	Straddle channels	5.47-5.85	CDD 1+2	802.11a	CH144	5720	6Mbps	-	-
Mode 44	Straddle channels	5.47-5.85	CDD 1+2	802.11ax HE40	CH144	5720	MCS0	Full	-
Mode 45	Straddle channels	5.47-5.85	CDD 1+2	802.11ax HE40	CH142	5710	MCS0	Full	-
Mode 46	Straddle channels	5.47-5.85	CDD 1+2	802.11ax HE80	CH138	5690	MCS0	Full	-
Mode 47	UNII 1	5.15-5.25	CDD 1+2	802.11a	CH40	5200	6Mbps		
Mode 48	UNII 1	5.15-5.25	CDD 1+2	802.11ax HE20	CH40	5200	MCS0	Full RU	

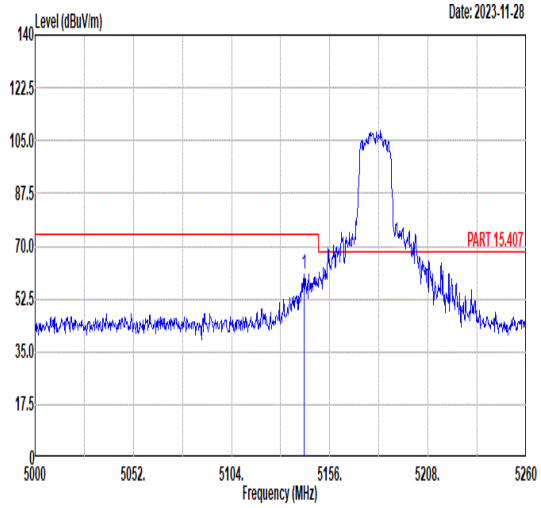
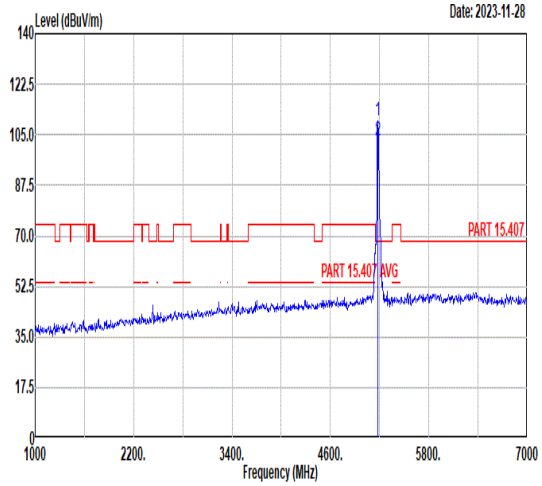
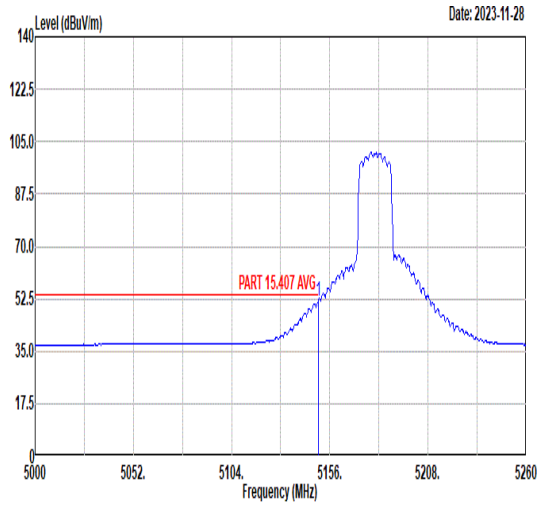
Summary of each worse mode

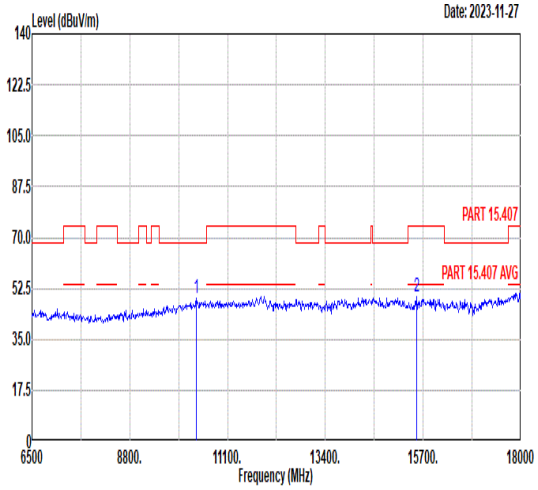
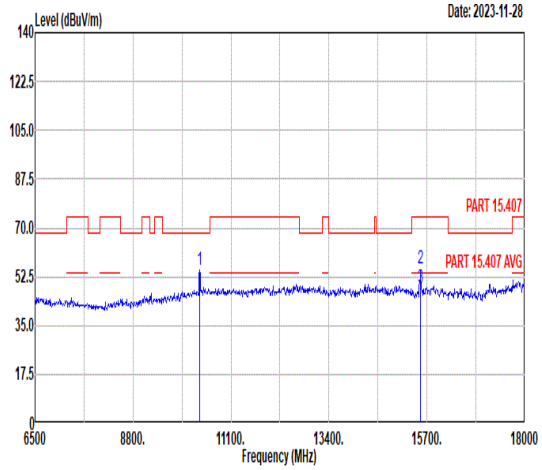
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	CH36	5150	51.95	54	-2.05	H	Average	Pass	Band Edge
1	802.11a	CH36	15540.00	48.61	54.00	-5.39	V	Average	Pass	Harmonic
2	802.11a	CH44	-	-	-	-	-	-	-	Band Edge
2	802.11a	CH44	15660.00	51.20	54.00	-2.80	V	Average	Pass	Harmonic
3	802.11a	CH48	-	-	-	-	-	-	-	Band Edge
3	802.11a	CH48	15720.00	52.23	54.00	-1.77	V	Average	Pass	Harmonic
4	802.11a	CH52	-	-	-	-	-	-	-	Band Edge
4	802.11a	CH52	10520.00	47.24	68.30	-21.06	V	Peak	Pass	Harmonic
5	802.11a	CH60	-	-	-	-	-	-	-	Band Edge
5	802.11a	CH60	10600.00	48.66	74.00	-25.34	V	Peak	Pass	Harmonic
6	802.11a	CH64	5350.40	38.45	54.00	-15.55	V	Average	Pass	Band Edge
6	802.11a	CH64	15960.00	47.06	74.00	-26.94	V	Peak	Pass	Harmonic
7	802.11a	CH100	5457.84	38.30	54.00	-15.70	V	Average	Pass	Band Edge
7	802.11a	CH100	16500.00	48.23	68.30	-20.07	H	Peak	Pass	Harmonic
8	802.11a	CH116	-	-	-	-	-	-	-	Band Edge
8	802.11a	CH116	16740.00	46.34	68.30	-21.96	V	Peak	Pass	Harmonic
9	802.11a	CH140	5727.64	57.42	68.30	-10.88	V	Peak	Pass	Band Edge
9	802.11a	CH140	17100.00	46.92	68.30	-21.38	V	Peak	Pass	Harmonic
10	802.11ax HE20	CH36	5150	53.55	54.00	-0.45	V	Average	Pass	Band Edge
10	802.11ax HE20	CH36	15540.00	49.61	54.00	-4.39	V	Average	Pass	Harmonic
11	802.11ax HE20	CH44	-	-	-	-	-	-	-	Band Edge
11	802.11ax HE20	CH44	15660.00	52.17	54.00	-1.83	V	Average	Pass	Harmonic
12	802.11ax HE20	CH48	-	-	-	-	-	-	-	Band Edge
12	802.11ax HE20	CH48	15720.00	53.54	54.00	-0.46	V	Average	Pass	Harmonic
13	802.11ax HE20	CH52	-	-	-	-	-	-	-	Band Edge
13	802.11ax HE20	CH52	10520.00	49.07	68.30	-19.23	V	Peak	Pass	Harmonic
14	802.11ax HE20	CH60	-	-	-	-	-	-	-	Band Edge
14	802.11ax HE20	CH60	10600.00	46.72	74.00	-27.28	V	Peak	Pass	Harmonic
15	802.11ax HE20	CH64	5350.88	44.63	54.00	-9.37	V	Average	Pass	Band Edge
15	802.11ax HE20	CH64	10640.00	47.00	54.00	-7.00	V	Average	Pass	Harmonic
16	802.11ax HE20	CH100	5468.08	59.33	68.30	-8.97	V	Peak	Pass	Band Edge
16	802.11ax HE20	CH100	16500.00	46.13	68.30	-22.17	H	Peak	Pass	Harmonic
17	802.11ax HE20	CH116	-	-	-	-	-	-	-	Band Edge
17	802.11ax HE20	CH116	16740.00	45.27	68.30	-23.03	V	Peak	Pass	Harmonic
18	802.11ax HE20	CH140	5726.28	66.41	68.30	-1.89	V	Peak	Pass	Band Edge
18	802.11ax HE20	CH140	17100.00	47.89	68.30	-20.41	V	Peak	Pass	Harmonic
19	802.11ax HE40	CH38	5147.42	52.57	54.00	-1.43	V	Average	Pass	Band Edge

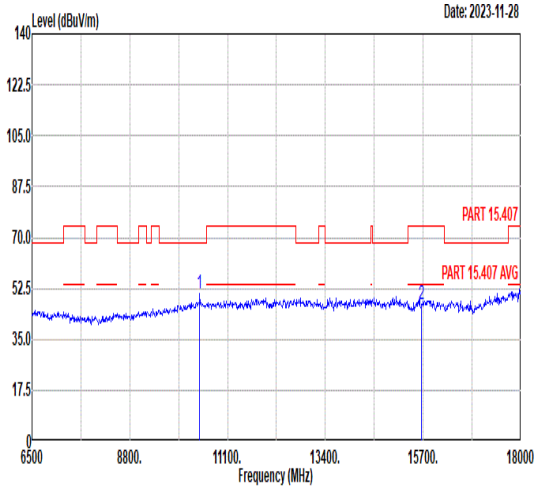
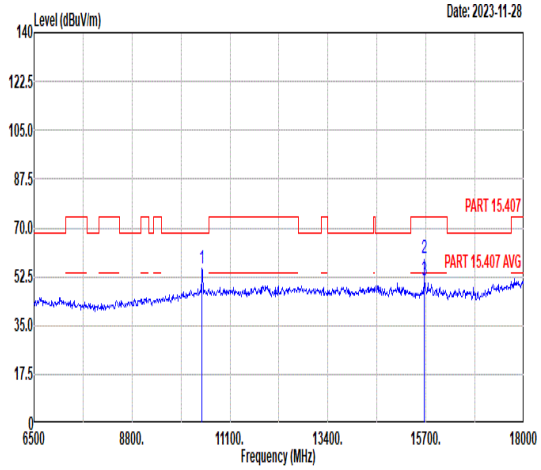
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
19	802.11ax HE40	CH38	10380.00	49.79	68.30	-18.51	V	Peak	Pass	Harmonic
20	802.11ax HE40	CH46	5148.72	53.46	54.00	-0.54	V	Average	Pass	Band Edge
20	802.11ax HE40	CH46	15690.00	49.18	54.00	-4.82	V	Average	Pass	Harmonic
21	802.11ax HE40	CH54	5356.08	41.20	54.00	-12.80	V	Average	Pass	Band Edge
21	802.11ax HE40	CH54	10540.00	48.83	68.30	-19.47	V	Peak	Pass	Harmonic
22	802.11ax HE40	CH62	5350.56	51.35	54.00	-2.65	V	Average	Pass	Band Edge
22	802.11ax HE40	CH62	15930.00	48.80	74.00	-25.20	V	Peak	Pass	Harmonic
23	802.11ax HE40	CH102	5469.04	66.82	68.30	-1.48	V	Peak	Pass	Band Edge
23	802.11ax HE40	CH102	16530.00	46.15	68.30	-22.15	V	Peak	Pass	Harmonic
24	802.11ax HE40	CH110	-	-	-	-	-	-	-	Band Edge
24	802.11ax HE40	CH110	16650.00	47.15	68.30	-21.15	H	Peak	Pass	Harmonic
25	802.11ax HE40	CH134	5726.33	65.59	68.30	-2.71	V	Peak	Pass	Band Edge
25	802.11ax HE40	CH134	17010.00	47.54	68.30	-20.76	V	Peak	Pass	Harmonic
26	802.11ax HE80	CH42	5147.42	53.15	54.00	-0.85	V	Average	Pass	Band Edge
26	802.11ax HE80	CH42	10420.00	47.93	68.30	-20.37	V	Peak	Pass	Harmonic
27	802.11ax HE80	CH58	5352.96	53.84	54.00	-0.16	V	Average	Pass	Band Edge
27	802.11ax HE80	CH58	10580.00	47.34	68.30	-20.96	V	Peak	Pass	Harmonic
28	802.11ax HE80	CH106	5457.76	52.42	54.00	-1.58	V	Average	Pass	Band Edge
28	802.11ax HE80	CH106	16590.00	48.27	68.30	-20.03	H	Peak	Pass	Harmonic
29	802.11ax HE80	CH122	5726.33	62.27	68.30	-6.03	V	Peak	Pass	Band Edge
29	802.11ax HE80	CH122	16830.00	46.79	68.30	-21.51	V	Peak	Pass	Harmonic
30	802.11a	CH149	5648.80	53.79	68.30	-14.51	V	Peak	Pass	Band Edge
30	802.11a	CH149	17235.00	53.37	68.30	-14.93	V	Peak	Pass	Harmonic
31	802.11a	CH157	-	-	-	-	-	-	-	Band Edge
31	802.11a	CH157	17355.00	53.97	68.30	-14.33	V	Peak	Pass	Harmonic
32	802.11a	CH165	5928	53.99	68.3	-14.31	H	Peak	Pass	Band Edge
32	802.11a	CH165	11650.00	48.95	54.00	-5.05	H	Average	Pass	Harmonic
33	802.11ax HE20	CH149	5649.20	51.43	68.30	-16.87	V	Peak	Pass	Band Edge
33	802.11ax HE20	CH149	17235.00	49.92	68.30	-18.38	V	Peak	Pass	Harmonic
34	802.11ax HE20	CH157	-	-	-	-	-	-	-	Band Edge
34	802.11ax HE20	CH157	17355.00	52.05	68.30	-16.25	V	Peak	Pass	Harmonic
35	802.11ax HE20	CH165	5927.40	54.42	68.30	-13.88	V	Peak	Pass	Band Edge
35	802.11ax HE20	CH165	11650.00	48.67	54.00	-5.33	V	Average	Pass	Harmonic
36	802.11ax HE40	CH151	5648.20	59.27	68.30	-9.03	V	Peak	Pass	Band Edge
36	802.11ax HE40	CH151	17265.00	52.92	68.30	-15.38	V	Peak	Pass	Harmonic
37	802.11ax HE40	CH159	5933.80	57.50	68.30	-10.80	V	Peak	Pass	Band Edge
37	802.11ax HE40	CH159	17385.00	53.62	68.30	-14.68	V	Peak	Pass	Harmonic
38	802.11ax HE80	CH155	5649.00	67.34	68.30	-0.96	V	Peak	Pass	Band Edge

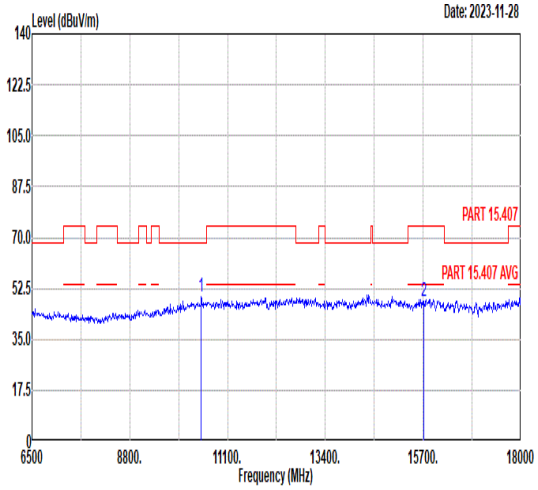
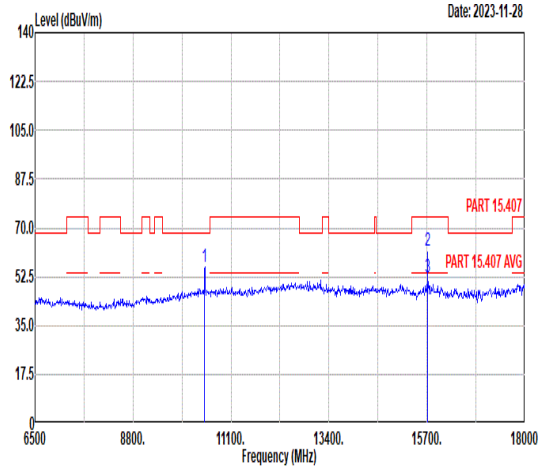
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
38	802.11ax HE80	CH155	17325.00	48.71	68.30	-19.59	V	Peak	Pass	Harmonic
39	802.11ax HE80	CH106	70.74	28.99	40	-11.01	V	Average	Pass	LF
40	802.11ax HE80	CH155	70.74-	31.99	40	-8.01	V	Average	Pass	LF
43	802.11a	CH144	5399.50	38.04	54.00	-15.96	H	Peak	Pass	Band Edge
43	802.11a	CH144	17160.00	46.29	68.30	-22.01	V	Peak	Pass	Harmonic
44	802.11ax HE40	CH144	5455.60	38.72	54.00	-15.28	V	Peak	Pass	Band Edge
44	802.11ax HE40	CH144	17160.00	47.71	68.30	-20.59	V	Peak	Pass	Harmonic
45	802.11ax HE40	CH142	5401.70	39.10	54.00	-14.90	H	Peak	Pass	Band Edge
45	802.11ax HE40	CH142	17130.00	48.10	68.30	-20.20	H	Peak	Pass	Harmonic
46	802.11ax HE80	CH138	5424.25	38.19	54.00	-15.81	V	Peak	Pass	Band Edge
46	802.11ax HE80	CH138	17070.00	46.77	68.30	-21.53	V	Peak	Pass	Harmonic
47	802.11a	CH40	5150.00	48.86	54.00	-5.14	V	Average	Pass	Band Edge
47	802.11a	CH40	-	-	-	-	-	-	-	Harmonic
48	802.11ax HE20	CH40	5150.00	51.35	54.00	-2.65	V	Average	Pass	Band Edge
48	802.11ax HE20	CH40	-	-	-	-	-	-	-	Harmonic

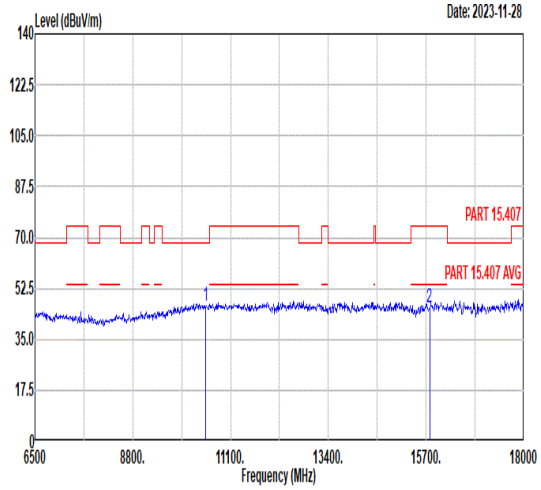
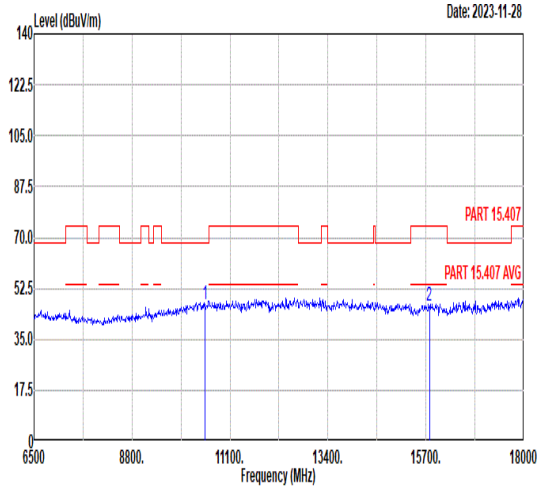
Mode	1	
	Band Edge	
	UNII 1_5.15-5.25_802.11a_CHCH36_5180MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5150.02 65.77 74.00 -8.23 56.28 34.42 7.92 32.85 100 318 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 5180.00 108.00 ------ ------ 98.50 34.45 7.94 32.89 100 318 Peak 2 5180.00 100.89 ------ ------ 91.39 34.45 7.94 32.89 100 318 Average
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 5148.98 50.62 54.00 -3.38 41.12 34.42 7.92 32.84 100 318 Average	Blank

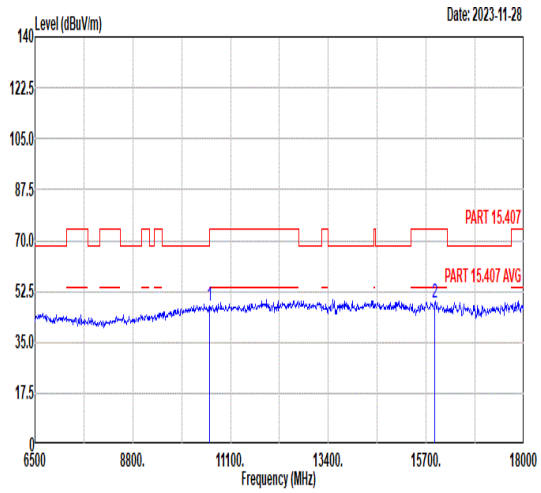
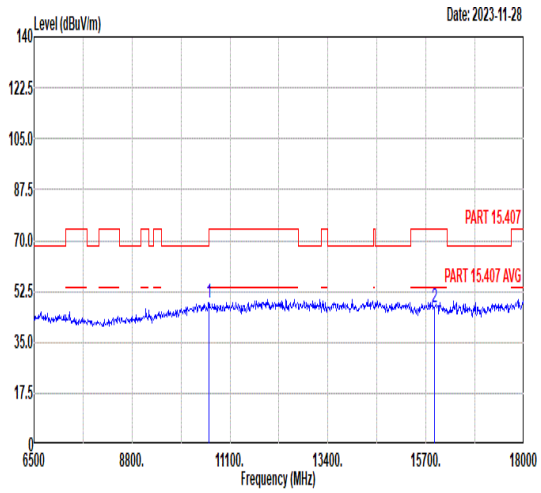
Mode	1	
	Band Edge	
	UNII 1_5.15-5.25_802.11a_CHCH36_5180MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5142.22 60.97 74.00 -13.03 51.47 34.42 7.91 32.83 307 0 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 5180.00 109.66 ------ ------ 100.16 34.45 7.94 32.89 307 0 Peak 2 5180.00 102.88 ------ ------ 93.38 34.45 7.94 32.89 307 0 Average
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 5150.00 51.95 54.00 -2.05 42.46 34.42 7.92 32.85 307 0 Average	Blank

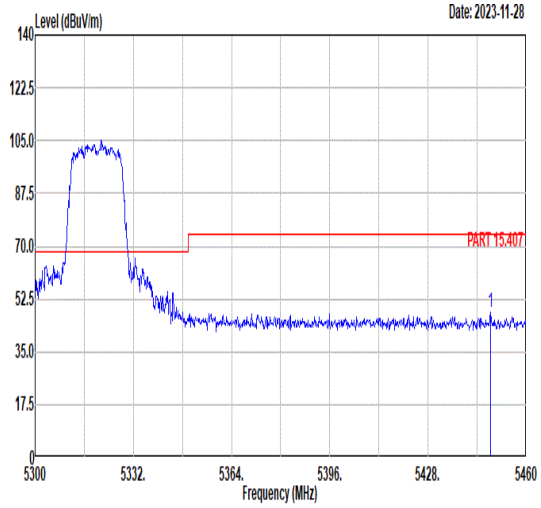
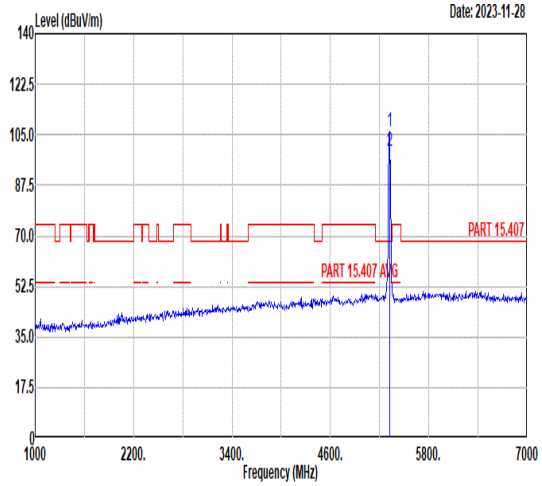
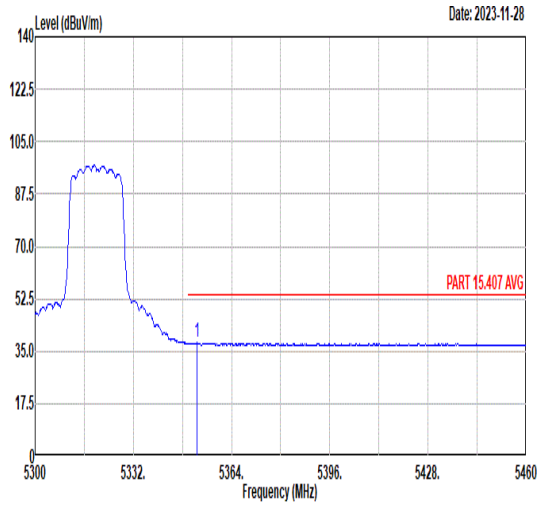
Mode	1	
	Harmonic	
	UNII 1_5.15-5.25_802.11a_CHCH36_5180MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10360.00 49.14 68.30 -19.16 59.79 37.62 10.73 59.00 -- -- Peak 2 15540.00 49.65 74.00 -24.35 55.31 40.56 12.72 58.94 -- -- 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 54.89 68.30 -13.41 65.54 37.62 10.73 59.00 -- -- Peak 2 15540.00 55.55 74.00 -18.45 61.21 40.56 12.72 58.94 272 14 Peak 3 15540.00 48.61 54.00 -5.39 54.27 40.56 12.72 58.94 272 14 Average

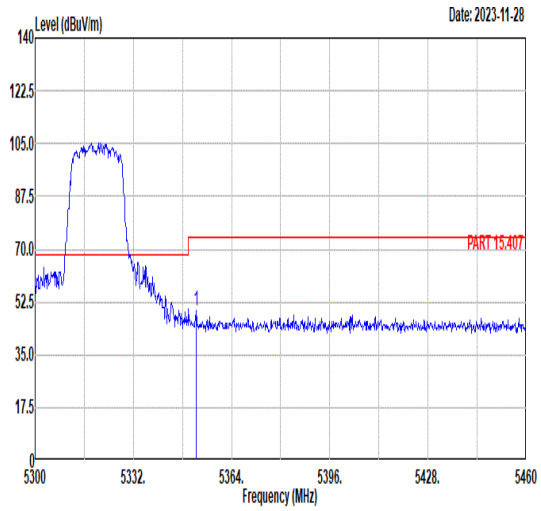
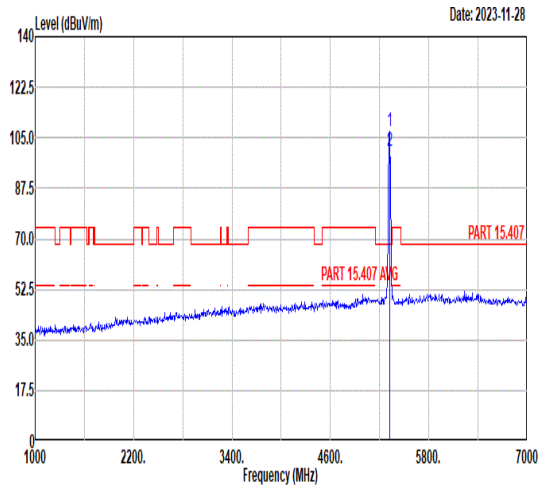
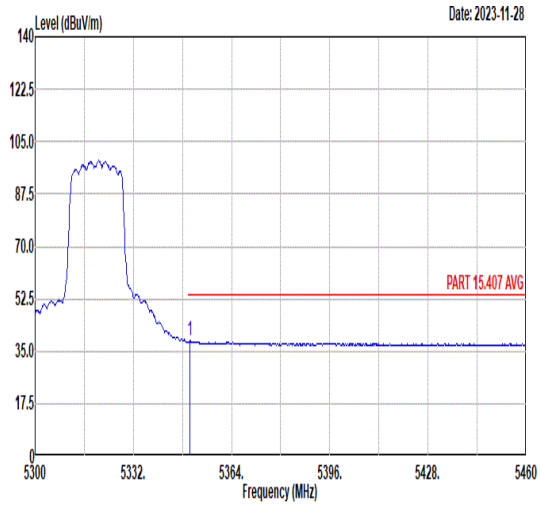
Mode	2	
	Harmonic	
	UNII 1_5.15-5.25_802.11a_CHCH44_5220MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10440.00 50.76 68.30 -17.54 61.22 37.66 10.79 58.91 -- -- Peak 2 15660.00 47.21 74.00 -26.79 52.95 40.60 12.72 59.06 -- -- 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 10440.00 55.48 68.30 -12.82 65.94 37.66 10.79 58.91 -- -- Peak 2 15660.00 59.27 74.00 -14.73 65.01 40.60 12.72 59.06 217 38 Peak 3 15660.00 51.20 54.00 -2.80 56.94 40.60 12.72 59.06 217 38 Average

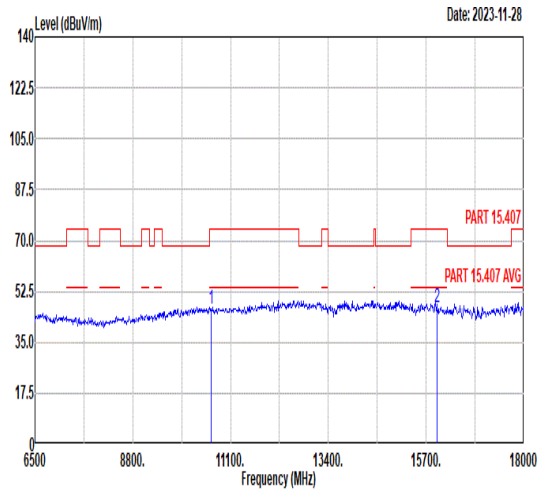
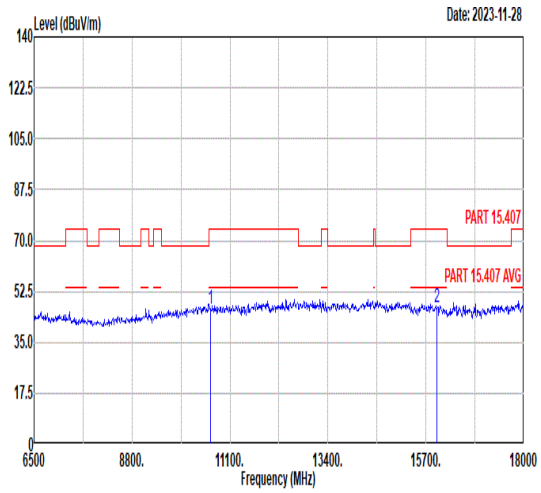
Mode	3	
	Harmonic	
	UNII 1_5.15-5.25_802.11a_CHCH48_5240MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 49.67 68.30 -18.63 60.03 37.69 10.82 58.87 -- -- Peak 2 15720.00 47.97 74.00 -26.03 53.76 40.62 12.71 59.12 -- -- 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 55.94 68.30 -12.36 66.30 37.69 10.82 58.87 -- -- Peak 2 15720.00 61.57 74.00 -12.43 67.36 40.62 12.71 59.12 220 35 Peak 3 15720.00 52.23 54.00 -1.77 58.02 40.62 12.71 59.12 220 35 Average

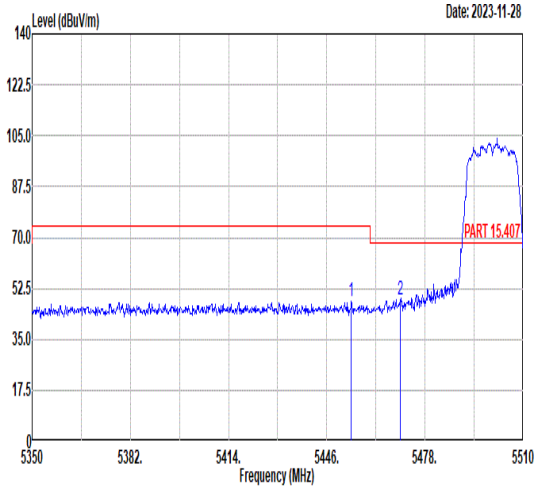
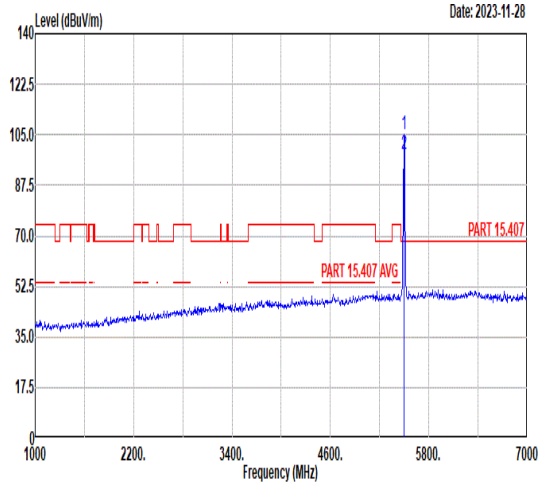
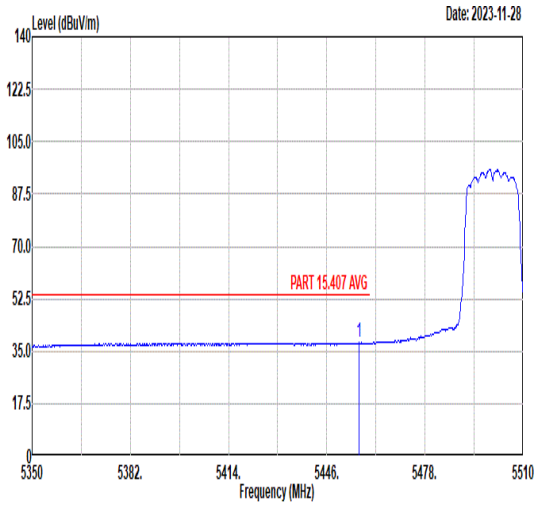
Mode	4	
	Harmonic	
	UNII 2A_5.25-5.35_802.11a_CHCH52_5260MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 46.57 68.30 -21.73 56.83 37.71 10.85 58.82 -- -- Peak 2 15780.00 45.72 74.00 -28.28 51.56 40.63 12.71 59.18 -- -- 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 47.24 68.30 -21.06 57.50 37.71 10.85 58.82 -- -- Peak 2 15780.00 46.42 74.00 -27.58 52.26 40.63 12.71 59.18 -- -- Peak

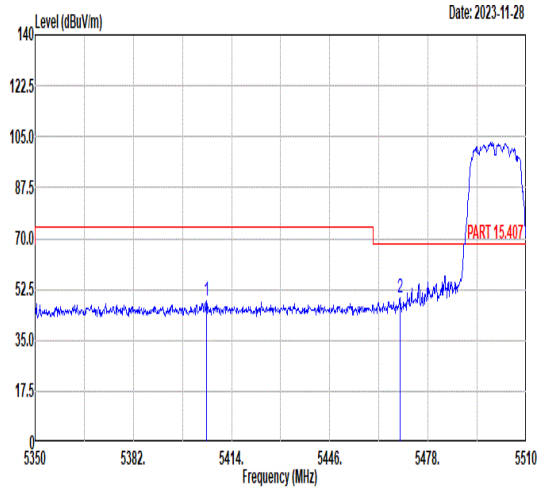
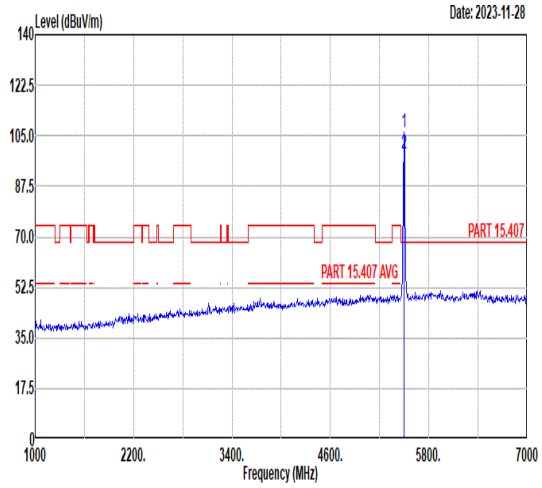
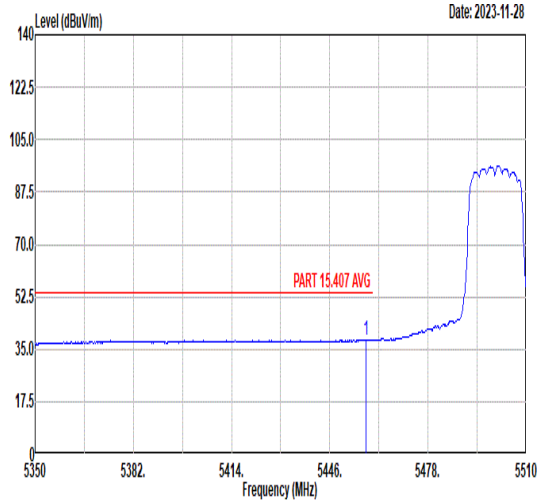
Mode	5	
	Harmonic	
	UNII 2A_5.25-5.35_802.11a_CHCH60_5300MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 47.41 74.00 -26.59 57.45 37.78 10.91 58.73 -- -- Peak 2 15900.00 48.59 74.00 -25.41 54.51 40.67 12.71 59.30 -- -- 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 48.66 74.00 -25.34 58.70 37.78 10.91 58.73 -- -- Peak 2 15900.00 46.85 74.00 -27.15 52.77 40.67 12.71 59.30 -- -- Peak

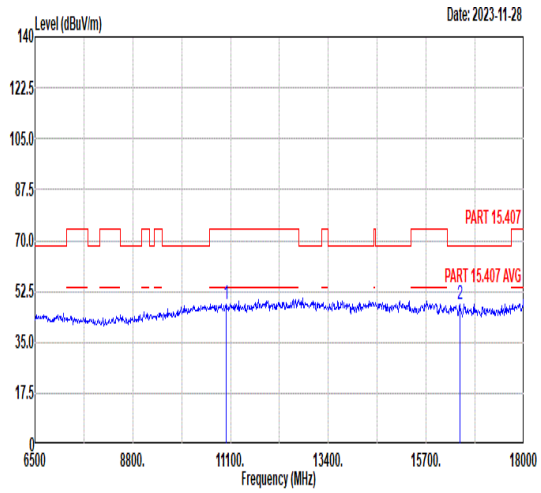
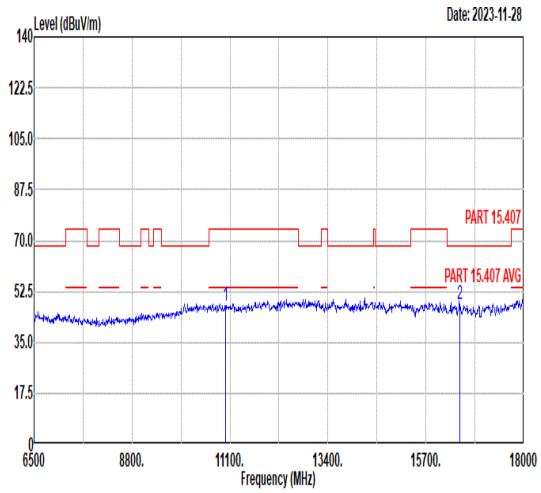
Mode	6	
	Band Edge	
	UNII 2A_5.25-5.35_802.11a_CHCH64_5320MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5448.32 48.20 74.00 -25.80 38.45 34.66 8.42 33.33 106 350 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 5320.00 106.27 ------ ------ 96.59 34.55 8.25 33.12 106 350 Peak 2 5320.00 99.44 ------ ------ 89.76 34.55 8.25 33.12 106 350 Average
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 5352.80 37.81 54.00 -16.19 28.06 34.58 8.34 33.17 106 350 Average	Blank

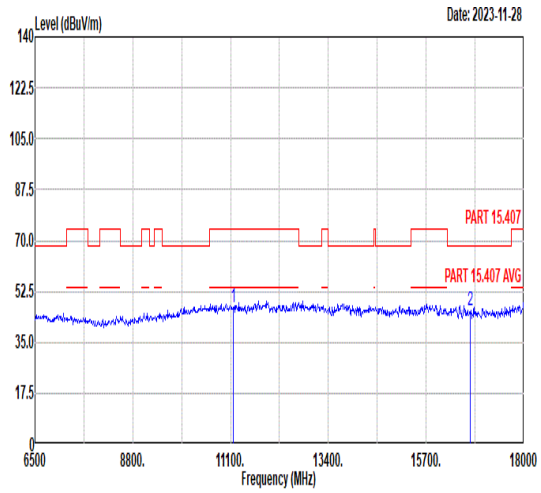
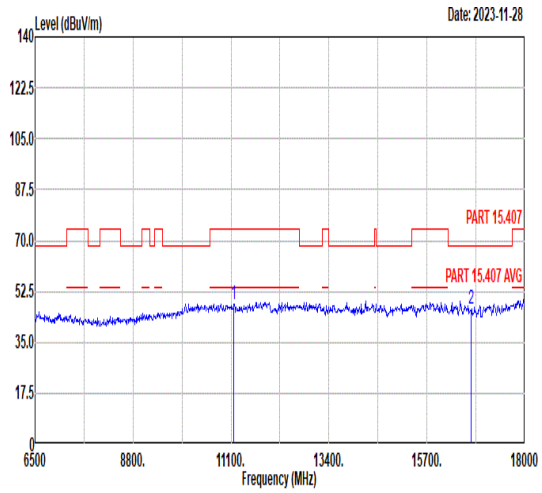
Mode	6	
	Band Edge	
	UNII 2A_5.25-5.35_802.11a_CHCH64_5320MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5352.48 49.42 74.00 -24.58 39.68 34.58 8.33 33.17 288 359 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 5320.00 107.20 ------ ------ 97.52 34.55 8.25 33.12 288 359 Peak 2 5320.00 100.56 ------ ------ 90.88 34.55 8.25 33.12 288 359 Average
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 5350.40 38.45 54.00 -15.55 28.71 34.58 8.33 33.17 288 359 Average	Blank

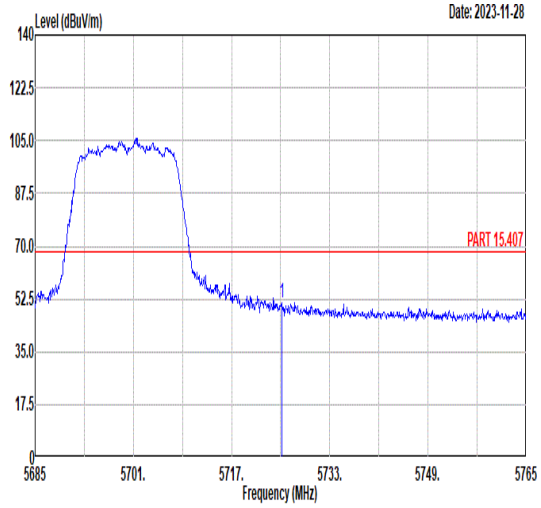
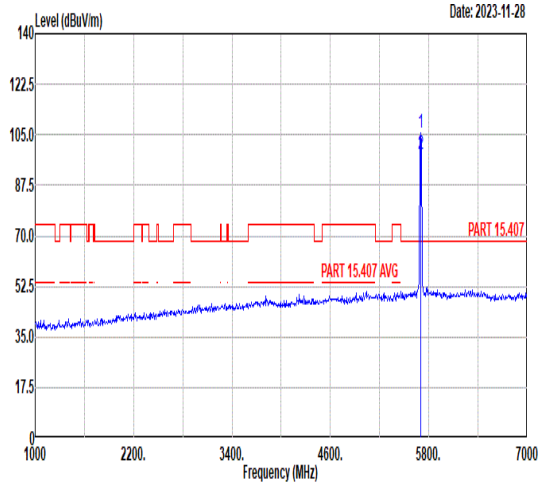
Mode	6	
	Harmonic	
	UNII 2A_5.25-5.35_802.11a_CHCH64_5320MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 46.46 74.00 -27.54 56.40 37.81 10.94 58.69 -- -- Peak 2 15960.00 47.01 74.00 -26.99 52.99 40.69 12.70 59.37 -- -- 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 46.52 74.00 -27.48 56.46 37.81 10.94 58.69 -- -- Peak 2 15960.00 47.06 74.00 -26.94 53.04 40.69 12.70 59.37 -- -- Peak

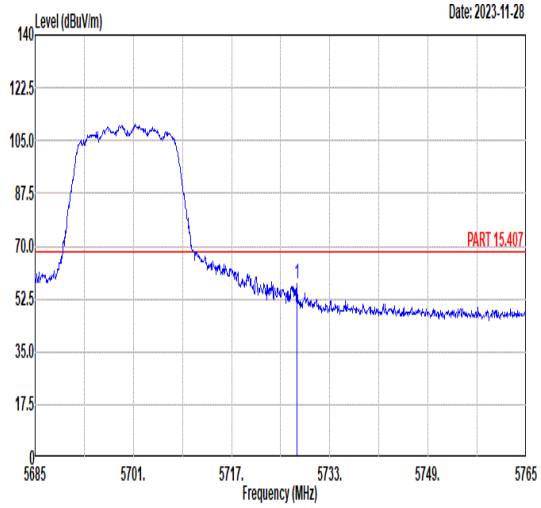
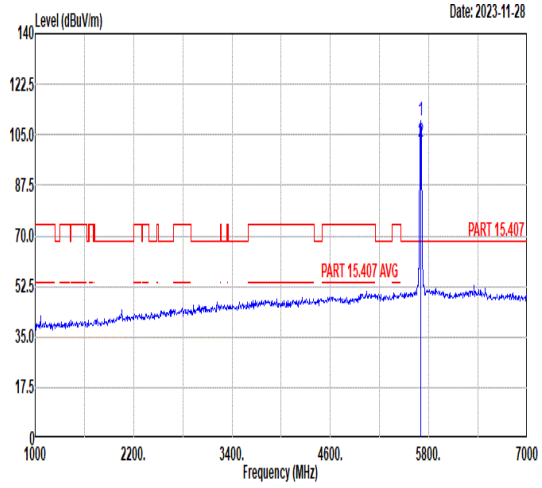
Mode	7	
	Band Edge	
	UNII 2C_5.47-5.725_802.11a_CHCH100_5500MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5454.00 47.82 74.00 -26.18 38.08 34.66 8.42 33.34 100 360 Peak 2 5470.00 48.70 68.30 -19.60 38.99 34.67 8.40 33.36 100 360 Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5500.00 104.93 ------ ------ 95.27 34.70 8.36 33.40 100 360 Peak 2 5500.00 98.10 ------ ------ 88.44 34.70 8.36 33.40 100 360 Average
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5456.56 37.82 54.00 -16.18 28.09 34.66 8.41 33.34 100 360 Average	Blank

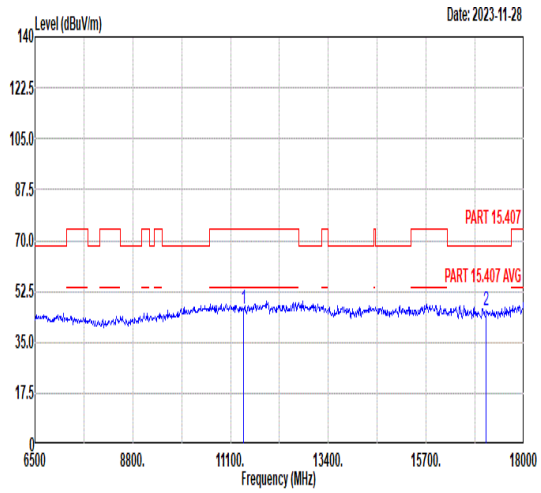
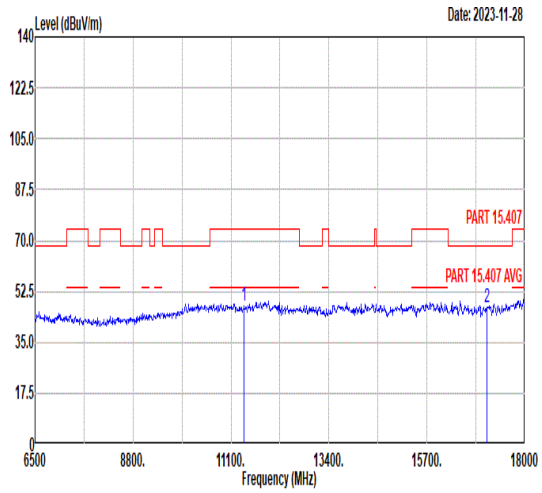
Mode	7	
	Band Edge	
	UNII 2C_5.47-5.725_802.11a_CHCH100_5500MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5405.84 48.65 74.00 -25.35 38.81 34.62 8.48 33.26 303 360 Peak 2 5468.88 49.69 68.30 -18.61 39.98 34.67 8.40 33.36 303 360 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 5500.00 106.24 ------ ------ 96.58 34.70 8.36 33.40 303 360 Peak 2 5500.00 99.02 ------ ------ 89.36 34.70 8.36 33.40 303 360 Average
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 5457.84 38.30 54.00 -15.70 28.57 34.66 8.41 33.34 303 360 Average	Blank

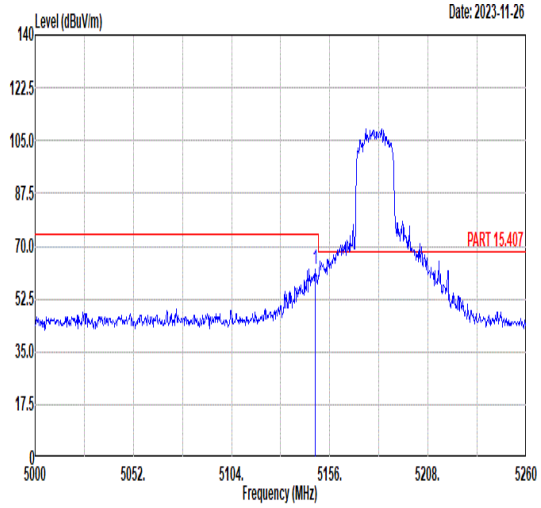
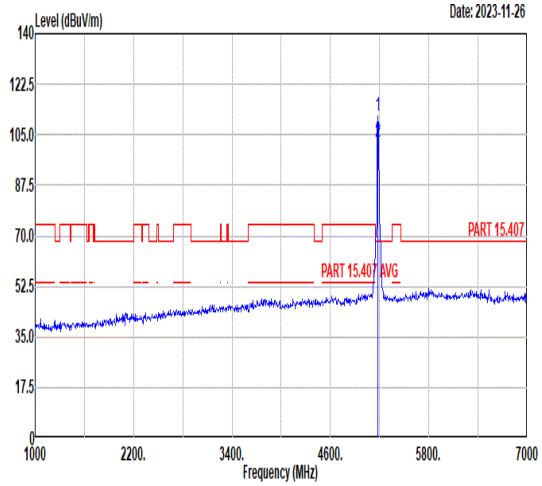
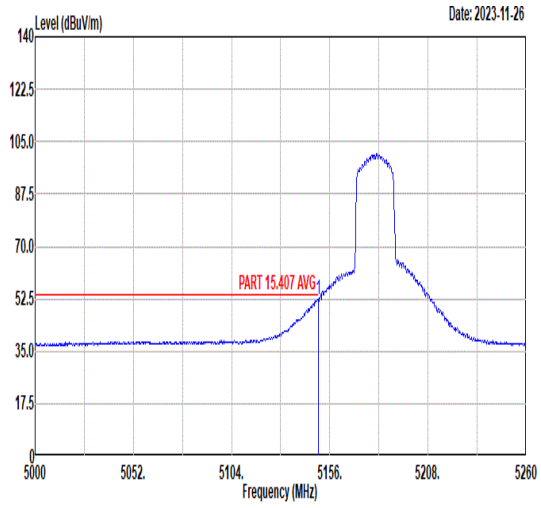
Mode	7	
	Harmonic	
	UNII 2C_5.47-5.725_802.11a_CHCH100_5500MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11000.00 48.30 74.00 -25.70 57.29 38.10 11.21 58.30 -- -- Peak 2 16500.00 48.23 68.30 -20.07 53.22 40.95 12.91 58.85 -- -- 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 47.35 74.00 -26.65 56.34 38.10 11.21 58.30 -- -- Peak 2 16500.00 48.09 68.30 -20.21 53.08 40.95 12.91 58.85 -- -- Peak

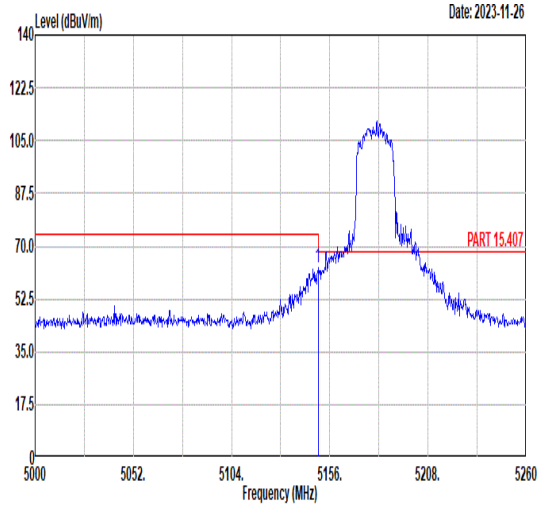
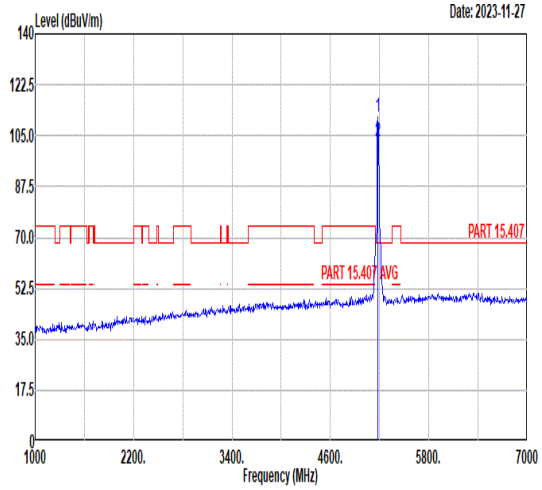
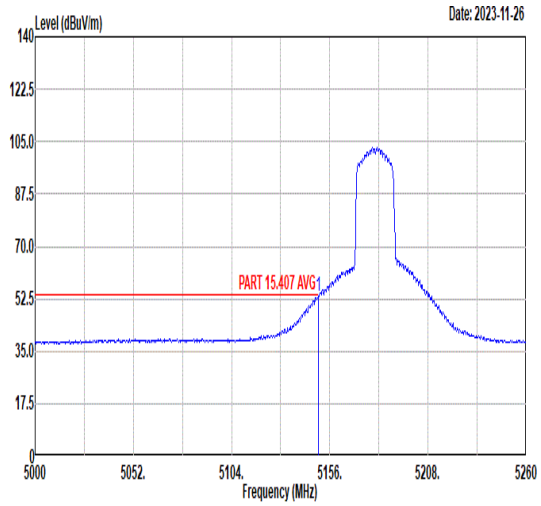
Mode	8	
	Harmonic	
	UNII 2C_5.47-5.725_802.11a_CHCH116_5580MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11160.00 46.98 74.00 -27.02 55.55 38.26 11.29 58.12 -- -- Peak 2 16740.00 46.02 68.30 -22.28 50.52 41.07 13.01 58.58 -- -- 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 48.02 74.00 -25.98 56.59 38.26 11.29 58.12 -- -- Peak 2 16740.00 46.34 68.30 -21.96 50.84 41.07 13.01 58.58 -- -- Peak

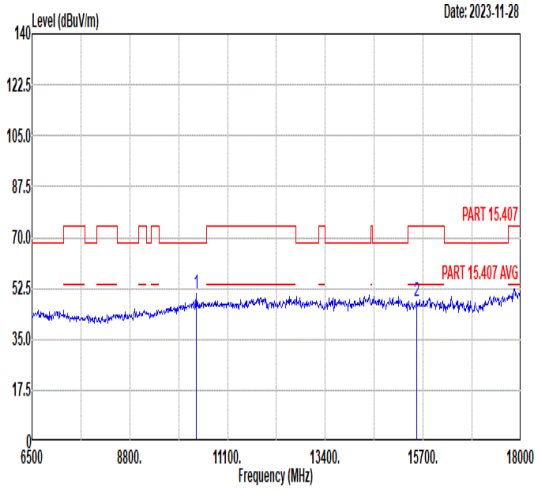
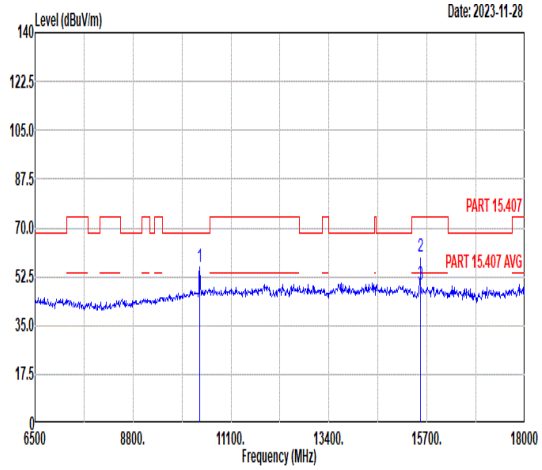
Mode	9	
	Band Edge	
	UNII 2C_5.47-5.725_802.11a_CHCH140_5700MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5725.24 51.48 68.30 -16.82 41.10 35.06 8.68 33.36 107 349 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 5700.00 105.84 ------ ------ 95.60 35.02 8.58 33.36 107 349 Peak 2 5700.00 98.23 ------ ------ 87.99 35.02 8.58 33.36 107 349 Average

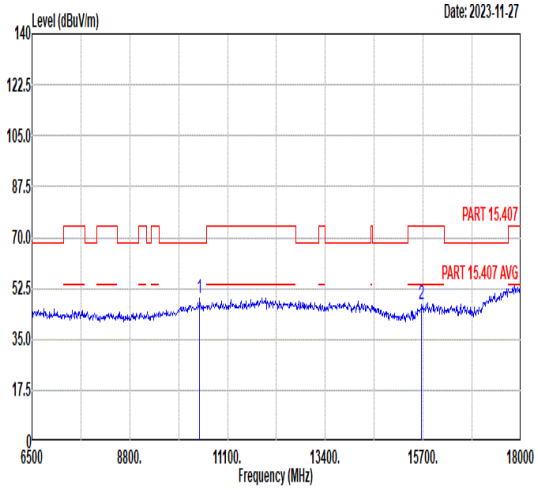
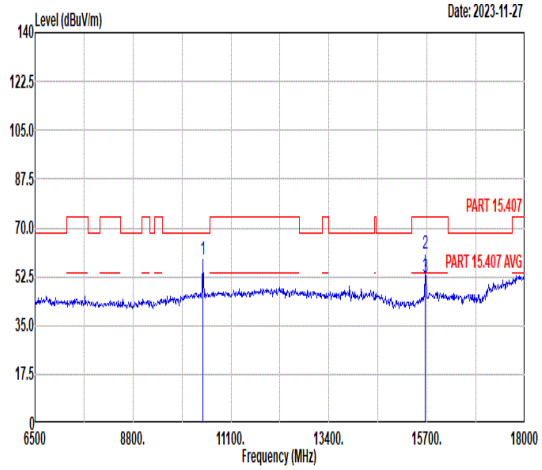
Mode	9	
	Band Edge	
	UNII 2C_5.47-5.725_802.11a_CHCH140_5700MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5727.64 57.42 68.30 -10.88 47.03 35.06 8.68 33.35 297 252 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 5700.00 109.80 ------ ------ 99.56 35.02 8.58 33.36 297 252 Peak 2 5700.00 102.50 ------ ------ 92.26 35.02 8.58 33.36 297 252 Average

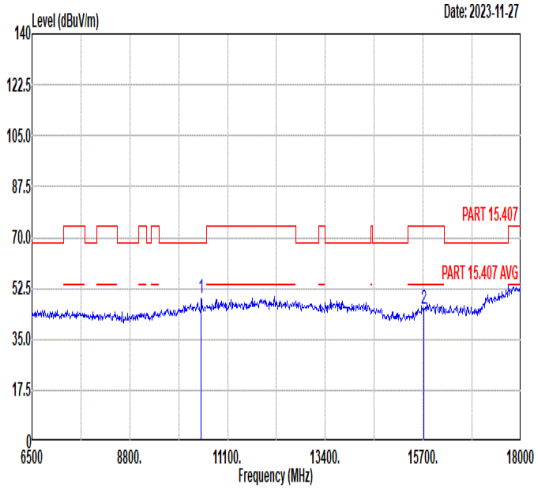
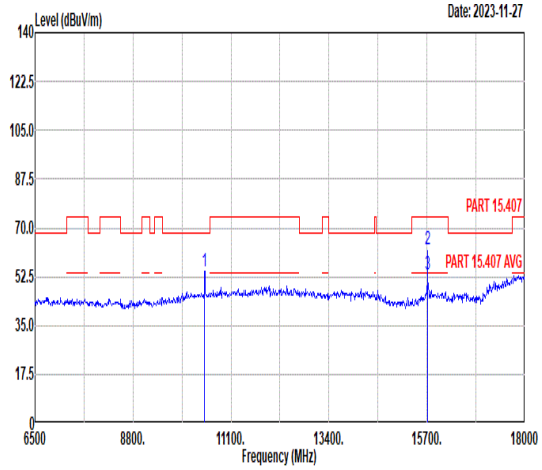
Mode	9	
	Harmonic	
	UNII 2C_5.47-5.725_802.11a_CHCH140_5700MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11400.00 46.47 74.00 -27.53 54.42 38.50 11.41 57.86 -- -- Peak 2 17100.00 45.76 68.30 -22.54 49.54 41.24 13.14 58.16 -- -- 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 47.78 74.00 -26.22 55.73 38.50 11.41 57.86 -- -- Peak 2 17100.00 46.92 68.30 -21.38 50.70 41.24 13.14 58.16 -- -- Peak

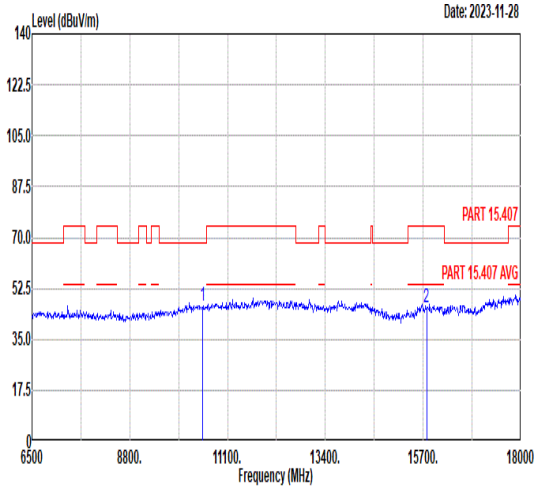
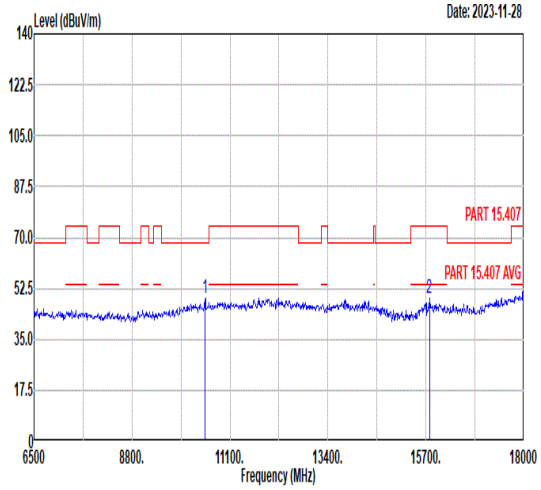
Mode	10	
	Band Edge	
	UNII 1_5.15-5.25_802.11ax HE20_CHCH36_Full RU_5180MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5148.20 62.10 74.00 -11.90 52.60 34.42 7.92 32.84 106 357 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 5180.00 111.30 ------ ------ 101.80 34.45 7.94 32.89 106 357 Peak 2 5180.00 102.59 ------ ------ 93.09 34.45 7.94 32.89 106 357 Average
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 5150.00 52.46 54.00 -1.54 42.97 34.42 7.92 32.85 106 357 Average	Blank

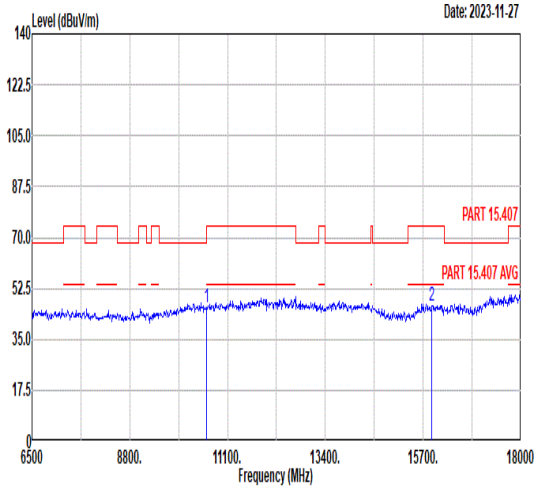
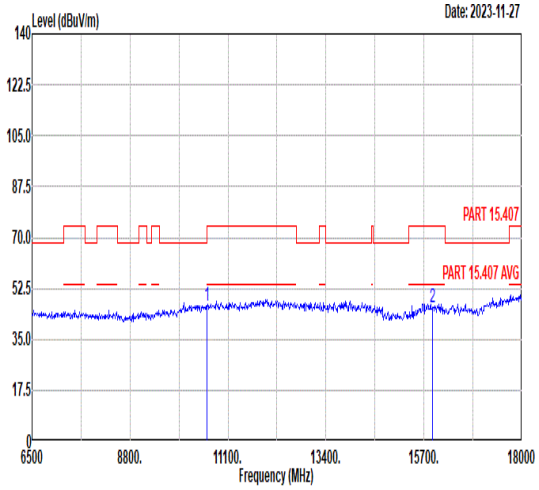
Mode	10	
	Band Edge	
	UNII 1_5.15-5.25_802.11ax HE20_CHCH36_Full RU_5180MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5149.76 62.78 74.00 -11.22 53.29 34.42 7.92 32.85 238 8 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 5180.00 111.42 ------ ------ 101.92 34.45 7.94 32.89 238 8 Peak 2 5180.00 102.83 ------ ------ 93.33 34.45 7.94 32.89 238 8 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 5150.00 53.55 54.00 -0.45 44.06 34.42 7.92 32.85 238 8 Average	Blank

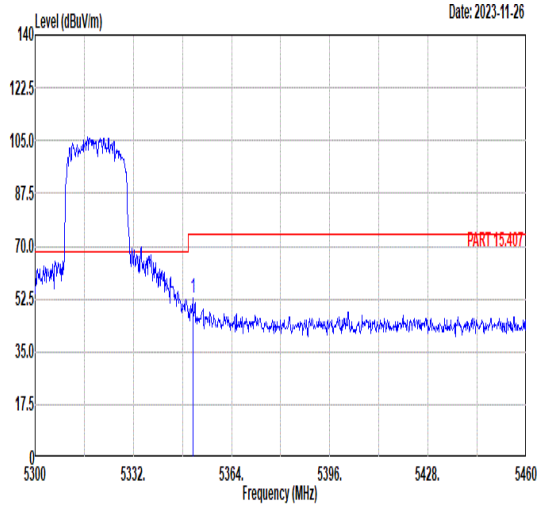
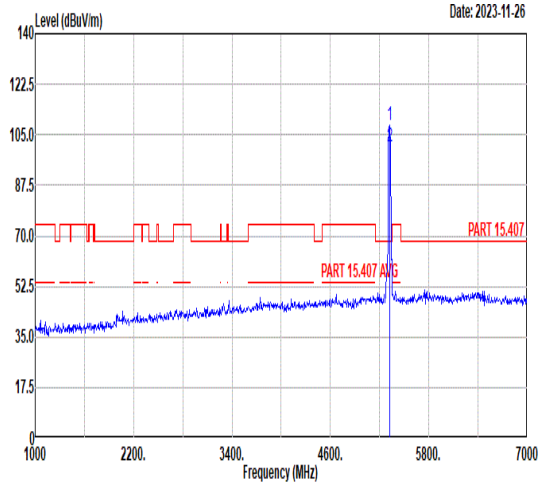
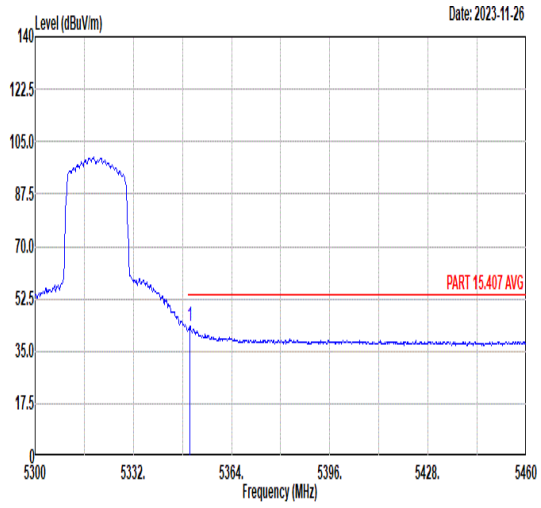
Mode	10	
	Harmonic	
	UNII 1_5.15-5.25_802.11ax HE20_CHCH36_Full RU_5180MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10360.00 50.53 68.30 -17.77 61.18 37.62 10.73 59.00 -- -- Peak 2 15540.00 48.25 74.00 -25.75 53.91 40.56 12.72 58.94 -- -- 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 55.76 68.30 -12.54 66.41 37.62 10.73 59.00 -- -- Peak 2 15540.00 59.61 74.00 -14.39 65.27 40.56 12.72 58.94 207 10 Peak 3 15540.00 49.61 54.00 -4.39 55.27 40.56 12.72 58.94 207 10 Average

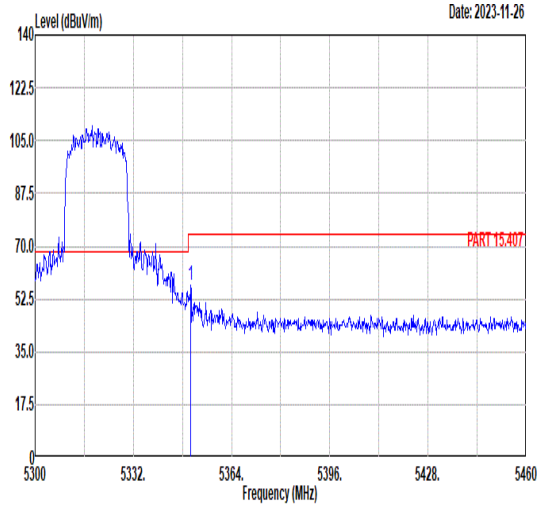
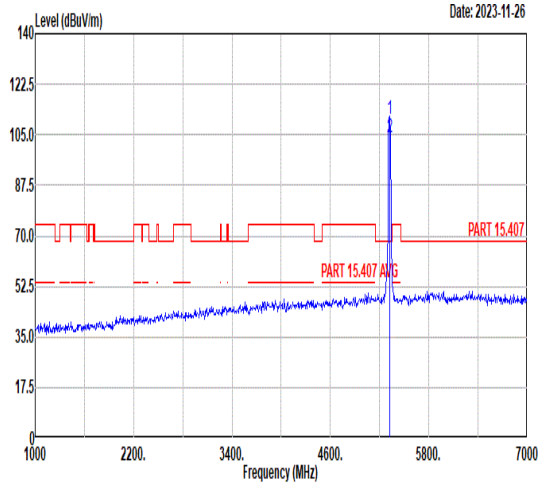
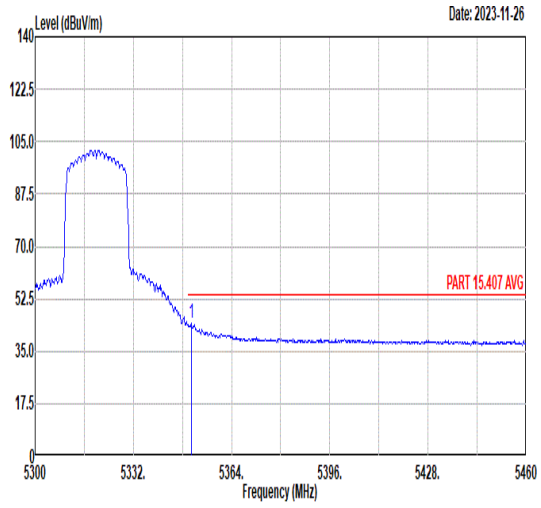
Mode	11	
	Harmonic	
	UNII 1_5.15-5.25_802.11ax HE20_CHCH44_Full RU_5220MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10440.00 49.29 68.30 -19.01 59.75 37.66 10.79 58.91 -- -- Peak 2 15660.00 47.27 74.00 -26.73 53.01 40.60 12.72 59.06 -- -- 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 10440.00 58.63 68.30 -9.67 69.09 37.66 10.79 58.91 -- -- Peak 2 15660.00 60.51 74.00 -13.49 66.25 40.60 12.72 59.06 213 308 Peak 3 15660.00 52.17 54.00 -1.83 57.91 40.60 12.72 59.06 213 308 Average

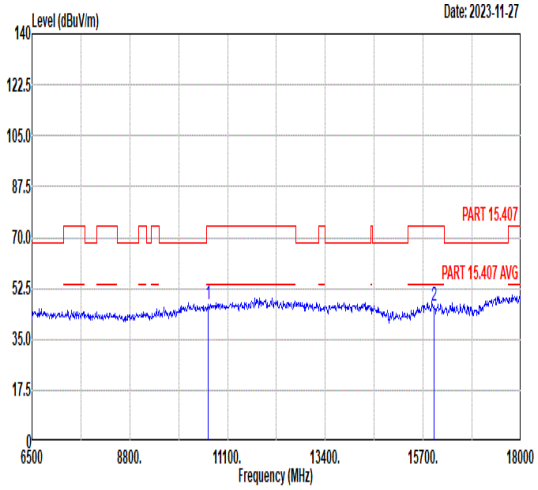
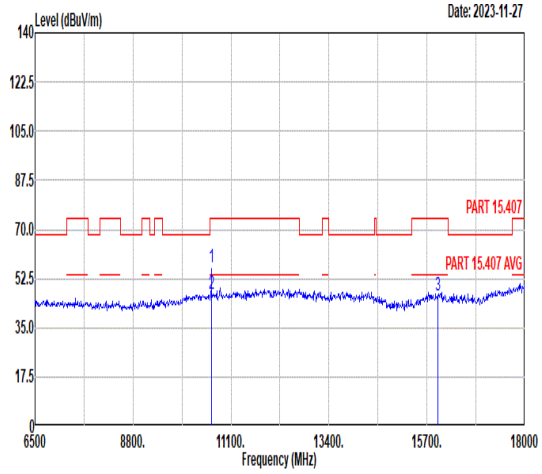
Mode	12	
	Harmonic	
	UNII 1_5.15-5.25_802.11ax HE20_CHCH48_Full RU_5240MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 48.91 68.30 -19.39 59.27 37.69 10.82 58.87 -- -- Peak 2 15720.00 45.44 74.00 -28.56 51.23 40.62 12.71 59.12 -- -- 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 54.58 68.30 -13.72 64.94 37.69 10.82 58.87 -- -- Peak 2 15720.00 62.11 74.00 -11.89 67.90 40.62 12.71 59.12 217 251 Peak 3 15720.00 53.54 54.00 -0.46 59.33 40.62 12.71 59.12 217 251 Average

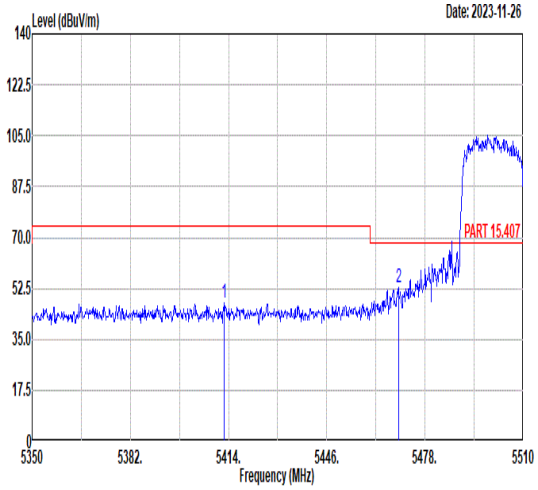
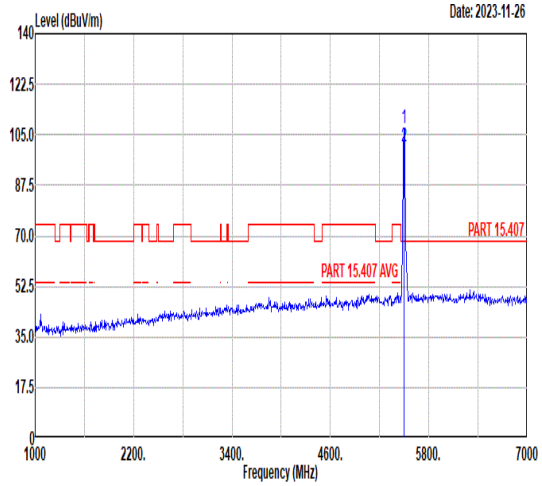
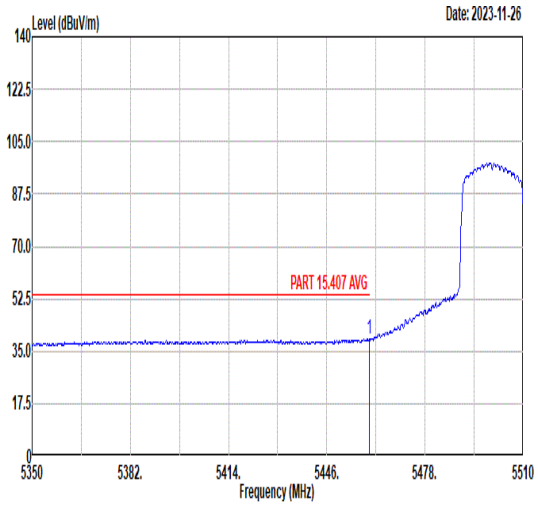
Mode	13	
	Harmonic	
	UNII 2A_5.25-5.35_802.11ax HE20_CHCH52_Full RU_5260MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 46.24 68.30 -22.06 56.50 37.71 10.85 58.82 -- -- Peak 2 15780.00 45.95 74.00 -28.05 51.79 40.63 12.71 59.18 -- -- 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 49.07 68.30 -19.23 59.33 37.71 10.85 58.82 -- -- Peak 2 15780.00 49.19 74.00 -24.81 55.03 40.63 12.71 59.18 -- -- Peak

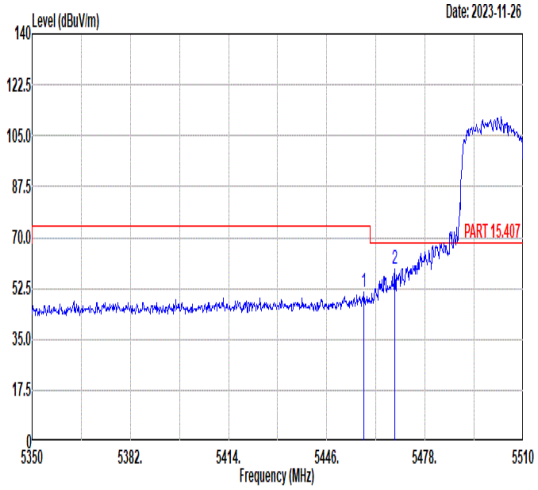
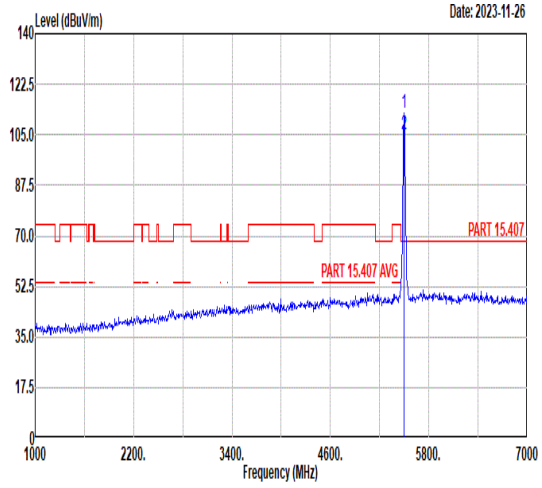
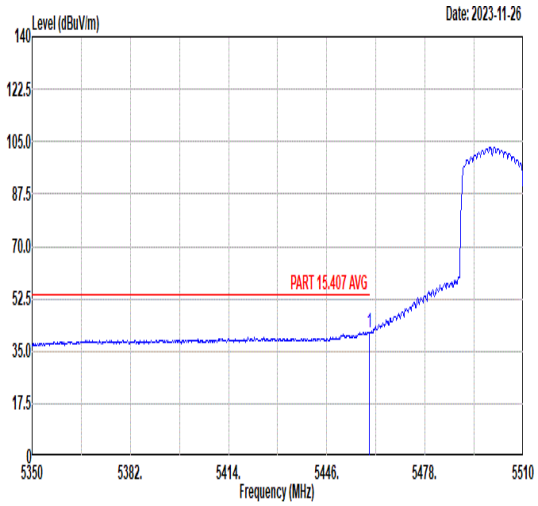
Mode	14	
	Harmonic	
	UNII 2A_5.25-5.35_802.11ax HE20_CHCH60_Full RU_5300MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 46.13 74.00 -27.87 56.17 37.78 10.91 58.73 -- -- Peak 2 15900.00 46.50 74.00 -27.50 52.42 40.67 12.71 59.30 -- -- 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 46.72 74.00 -27.28 56.76 37.78 10.91 58.73 -- -- Peak 2 15900.00 45.99 74.00 -28.01 51.91 40.67 12.71 59.30 -- -- Peak

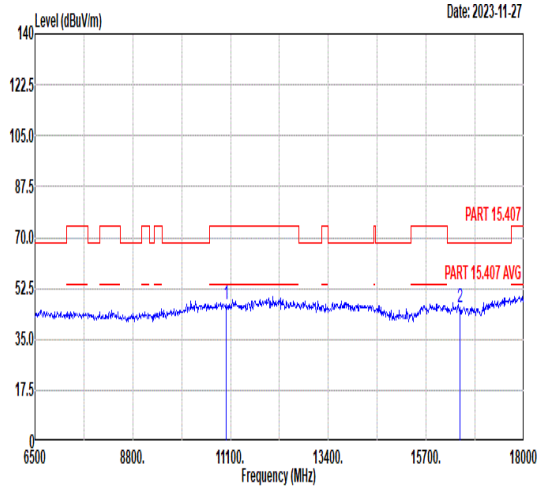
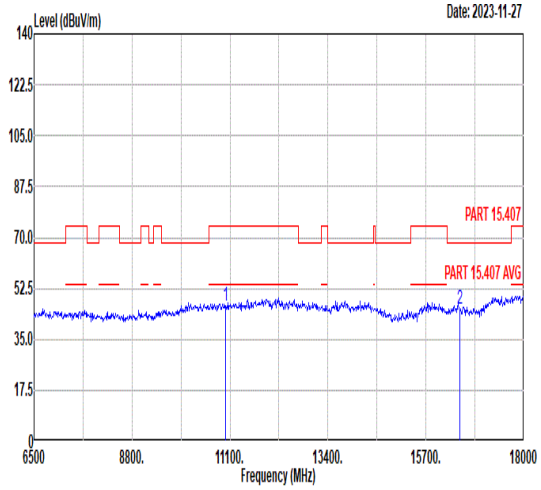
Mode	15	
	Band Edge	
	UNII 2A_5.25-5.35_802.11ax HE20_CHCH64_Full RU_5320MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5351.36 52.91 74.00 -21.09 43.17 34.58 8.33 33.17 100 64 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 5320.00 108.06 ------ ------ 98.38 34.55 8.25 33.12 100 64 Peak 2 5320.00 101.05 ------ ------ 91.37 34.55 8.25 33.12 100 64 Average
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 5350.40 43.54 54.00 -10.46 33.80 34.58 8.33 33.17 100 64 Average	Blank

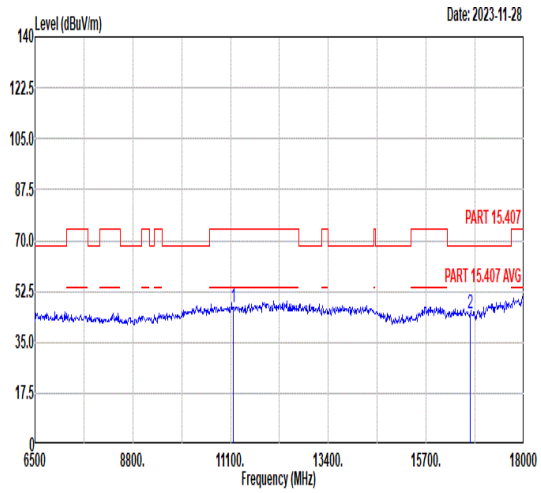
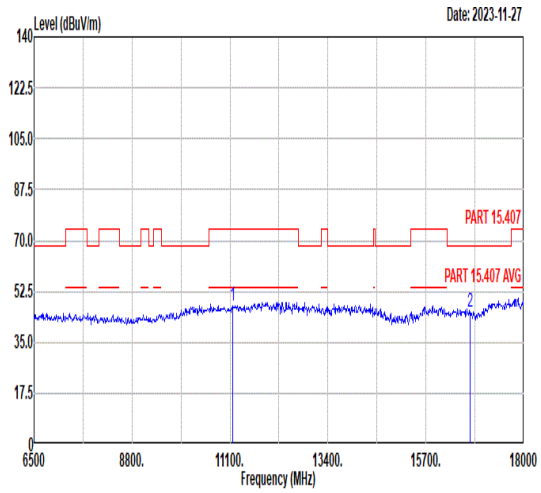
Mode	15	
	Band Edge	
	UNII 2A_5.25-5.35_802.11ax HE20_CHCH64_Full RU_5320MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.72 56.87 74.00 -17.13 47.13 34.58 8.33 33.17 100 303 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 5320.00 110.49 ------ ------ 100.81 34.55 8.25 33.12 100 303 Peak 2 5320.00 103.83 ------ ------ 94.15 34.55 8.25 33.12 100 303 Average
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 5350.88 44.63 54.00 -9.37 34.89 34.58 8.33 33.17 100 303 Average	Blank

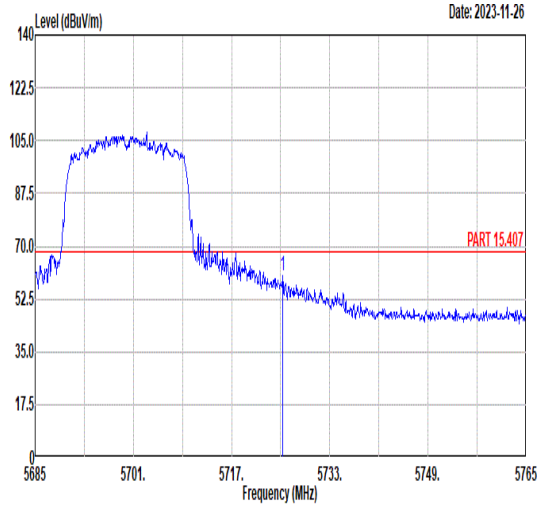
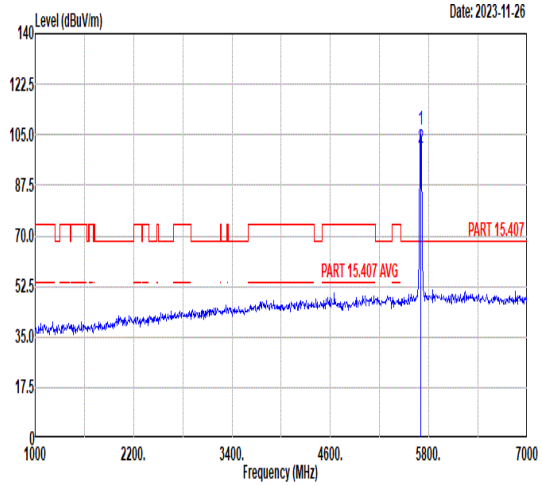
Mode	15	
	Harmonic	
	UNII 2A_5.25-5.35_802.11ax HE20_CHCH64_Full RU_5320MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 46.92 74.00 -27.08 56.86 37.81 10.94 58.69 -- -- Peak 2 15960.00 46.24 74.00 -27.76 52.22 40.69 12.70 59.37 -- -- 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 56.46 74.00 -17.54 66.40 37.81 10.94 58.69 319 13 Peak 2 10640.00 47.00 54.00 -7.00 56.94 37.81 10.94 58.69 319 13 Average 3 15960.00 46.44 74.00 -27.56 52.42 40.69 12.70 59.37 -- -- Peak

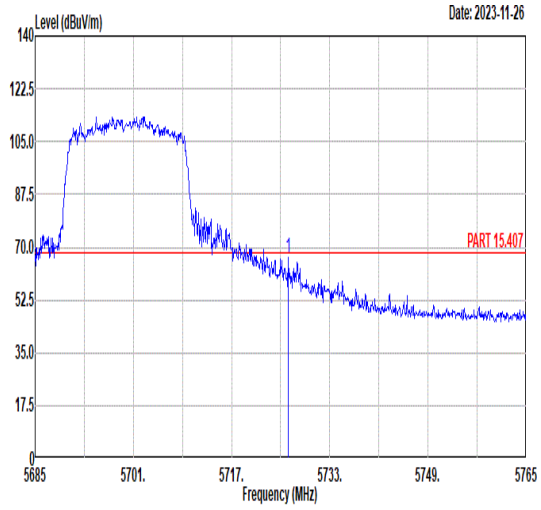
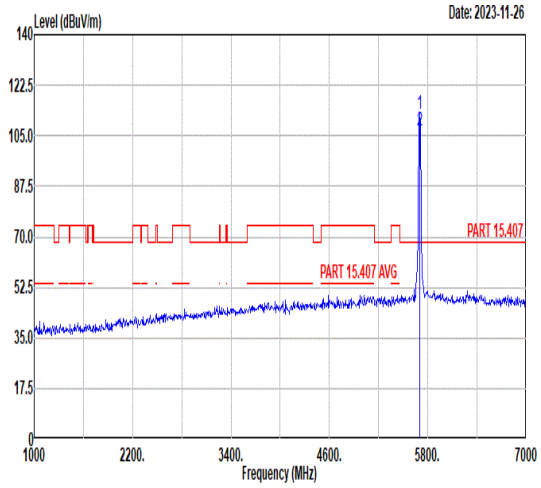
Mode	16	
	Band Edge	
	UNII 2C_5.47-5.725_802.11ax HE20_CHCH100_Full RU_5500MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5412.56 47.57 74.00 -26.43 37.74 34.63 8.47 33.27 100 62 Peak 2 5469.36 53.01 68.30 -15.29 43.30 34.67 8.40 33.36 100 62 Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5500.00 107.22 ------ ------ 97.56 34.70 8.36 33.40 100 62 Peak 2 5500.00 100.92 ------ ------ 91.26 34.70 8.36 33.40 100 62 Average
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5459.92 39.26 54.00 -14.74 29.54 34.66 8.41 33.35 100 62 Average	Blank

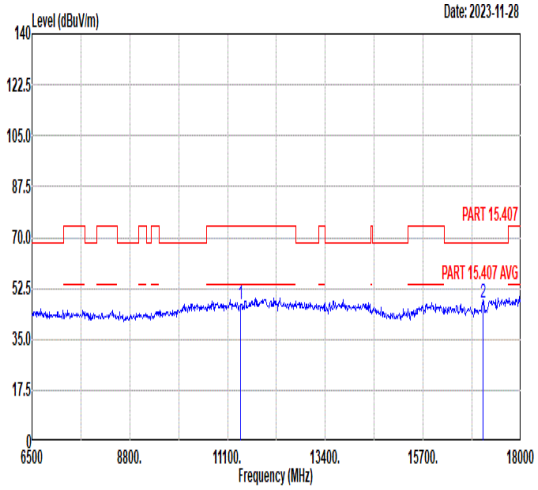
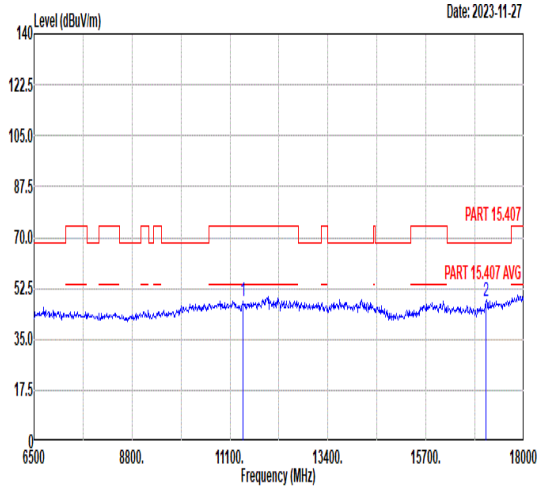
Mode	16	
	Band Edge	
	UNII 2C_5.47-5.725_802.11ax HE20_CHCH100_Full RU_5500MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5458.16 MHz 51.12 dBuV/m 74.00 dBuV/m -22.88 dB 41.40 dBuV 34.66 dB/m 8.41 dB 33.35 dB 230 cm 229 deg Peak 2 5468.08 59.33 68.30 -8.97 49.62 34.67 8.40 33.36 230 229 Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5500.00 112.46 MHz ------ dBuV/m ------ dB 102.80 dBuV 34.70 dB/m 8.36 dB 33.40 dB 230 cm 229 deg Peak 2 5500.00 105.19 ------ ------ 95.53 34.70 8.36 33.40 230 229 Average
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5459.92 MHz 41.18 dBuV/m 54.00 dBuV/m -12.82 dB 31.46 dBuV 34.66 dB/m 8.41 dB 33.35 dB 230 cm 229 deg Average	Blank

Mode	16	
	Harmonic	
	UNII 2C_5.47-5.725_802.11ax HE20_CHCH100_Full RU_5500MHz	
ANT	CDD 1+2	
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 46.92 74.00 -27.08 55.91 38.10 11.21 58.30 -- -- Peak 2 16500.00 46.13 68.30 -22.17 51.12 40.95 12.91 58.85 -- -- 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 46.65 74.00 -27.35 55.64 38.10 11.21 58.30 -- -- Peak 2 16500.00 45.56 68.30 -22.74 50.55 40.95 12.91 58.85 -- -- Peak

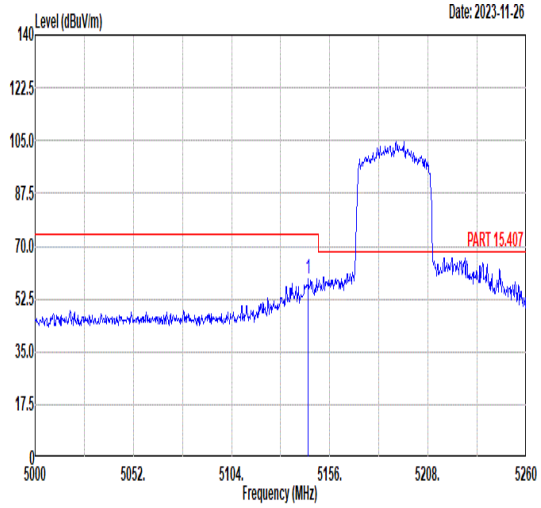
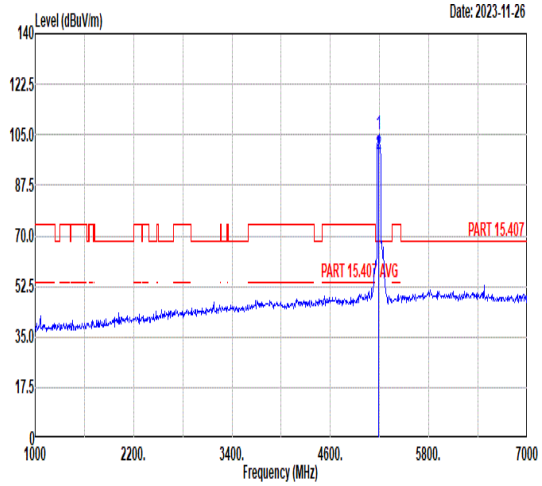
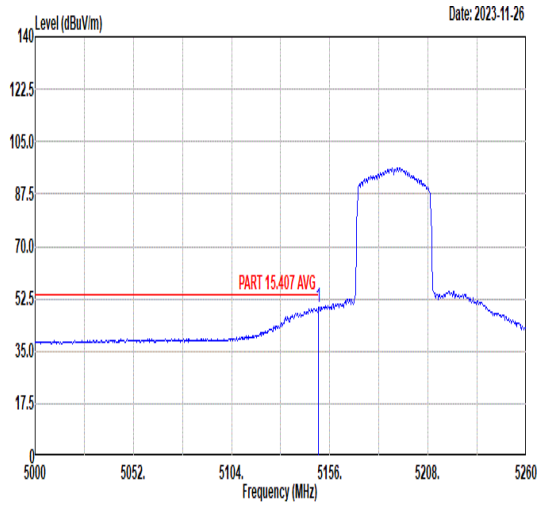
Mode	17	
	Harmonic	
	UNII 2C_5.47-5.725_802.11ax HE20_CHCH116_Full RU_5580MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11160.00 47.01 74.00 -26.99 55.58 38.26 11.29 58.12 -- -- Peak 2 16740.00 44.75 68.30 -23.55 49.25 41.07 13.01 58.58 -- -- 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 47.60 74.00 -26.40 56.17 38.26 11.29 58.12 -- -- Peak 2 16740.00 45.27 68.30 -23.03 49.77 41.07 13.01 58.58 -- -- Peak

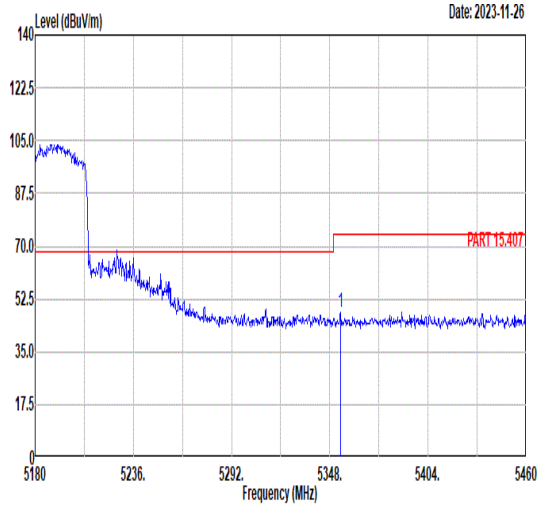
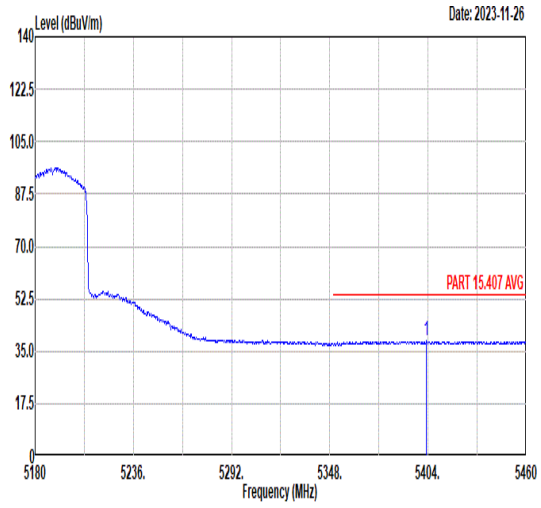
Mode	18	
	Band Edge	
	UNII 2C_5.47-5.725_802.11ax HE20_CHCH140_Full RU_5700MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5725.32 60.00 68.30 -8.30 49.62 35.06 8.68 33.36 137 18 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 5700.00 106.95 ------ ------ 96.71 35.02 8.58 33.36 137 18 Peak 2 5700.00 100.15 ------ ------ 89.91 35.02 8.58 33.36 137 18 Average

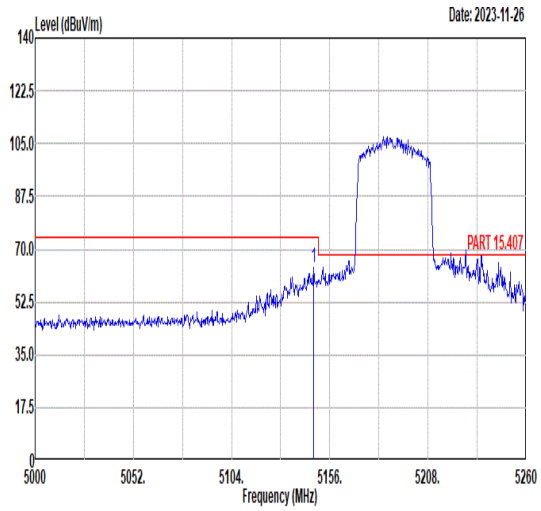
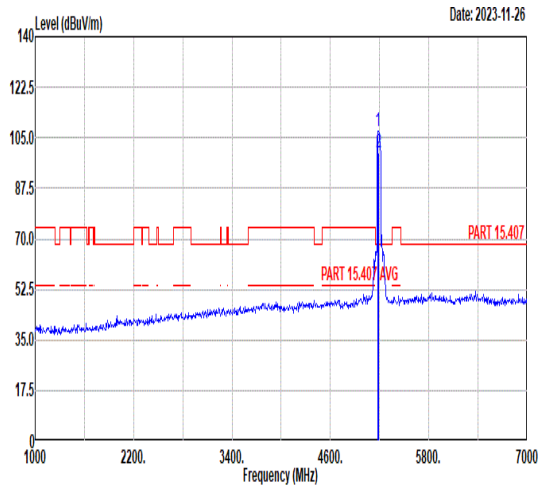
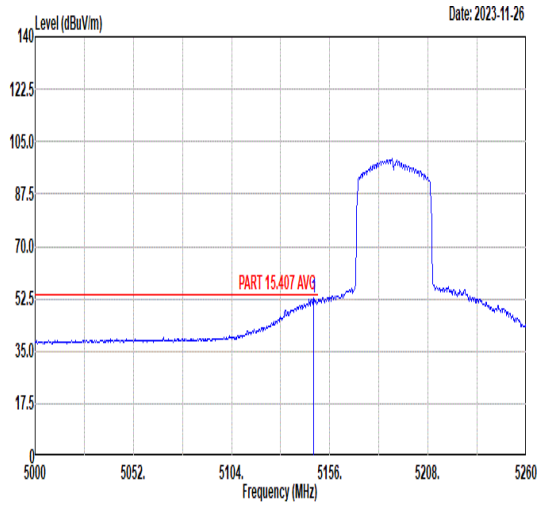
Mode	18	
	Band Edge	
	UNII 2C_5.47-5.725_802.11ax HE20_CHCH140_Full RU_5700MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5726.28 66.41 68.30 -1.89 56.02 35.06 8.68 33.35 207 250 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 5698.00 112.68 ------ ------ 102.46 35.01 8.57 33.36 207 250 Peak 2 5700.00 106.59 ------ ------ 96.35 35.02 8.58 33.36 207 250 Average

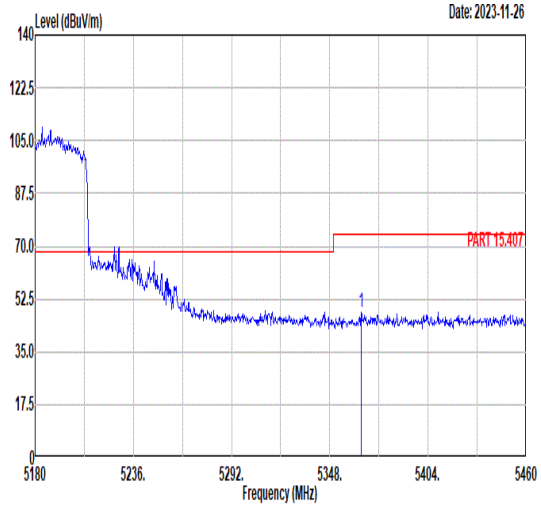
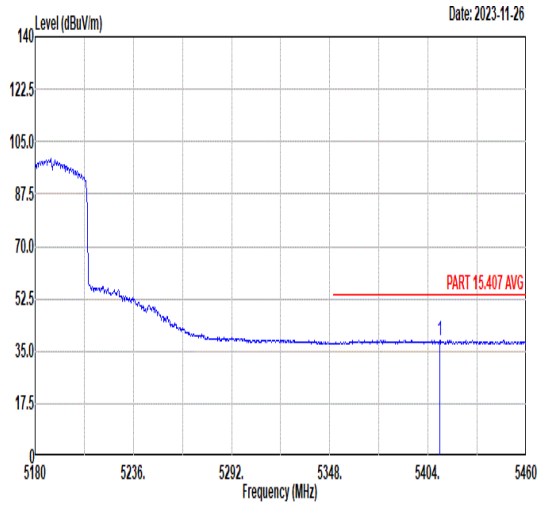
Mode	18	
	Harmonic	
	UNII 2C_5.47-5.725_802.11ax HE20_CHCH140_Full RU_5700MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11400.00 46.78 74.00 -27.22 54.73 38.50 11.41 57.86 -- -- Peak 2 17100.00 47.65 68.30 -20.65 51.43 41.24 13.14 58.16 -- -- 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 47.83 74.00 -26.17 55.78 38.50 11.41 57.86 -- -- Peak 2 17100.00 47.89 68.30 -20.41 51.67 41.24 13.14 58.16 -- -- Peak

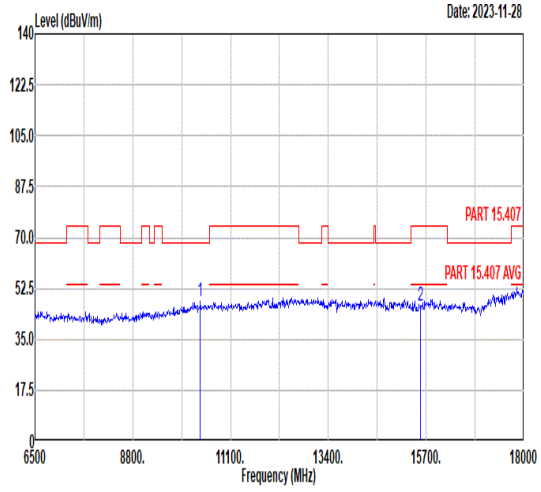
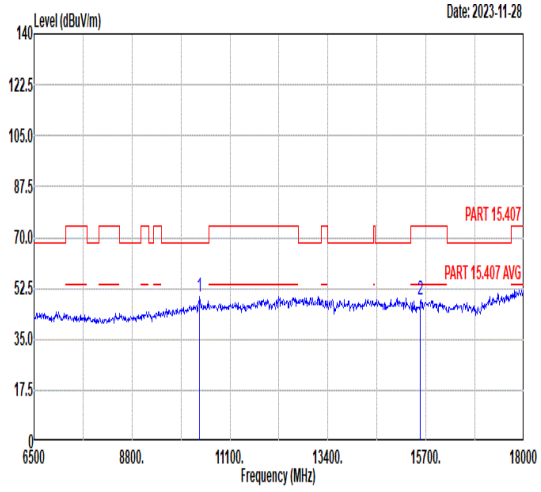
Mode	19
	Band Edge - L
	UNII 1_5.15-5.25_802.11ax HE40_CHCH38_Full RU_5190MHz
ANT	CDD 1+2

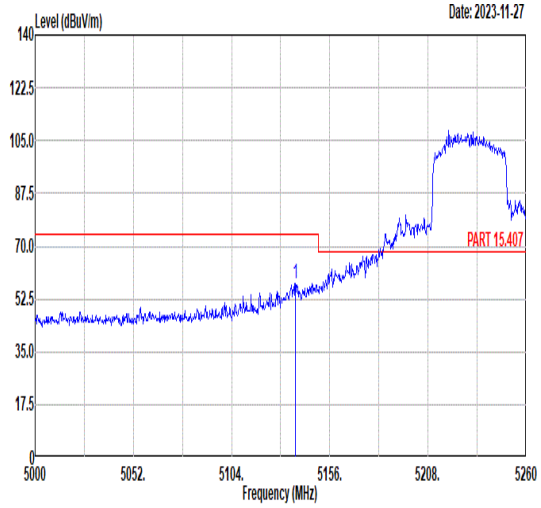
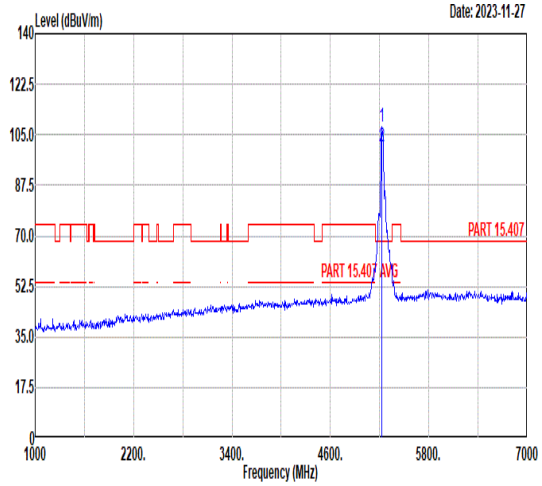
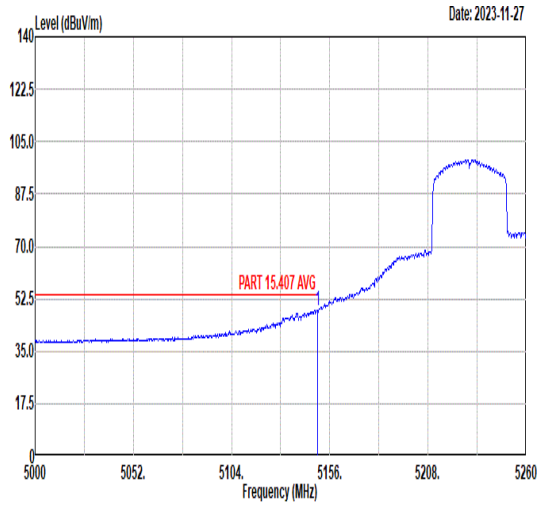
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5144.56 59.03 74.00 -14.97 49.53 34.42 7.92 32.84 102 58 Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5190.00 105.13 ------ ------ 95.64 34.45 7.95 32.91 102 58 Peak 2 5190.00 98.40 ------ ------ 88.91 34.45 7.95 32.91 102 58 Average
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 5150.00 49.42 54.00 -4.58 39.93 34.42 7.92 32.85 102 58 Average	Blank

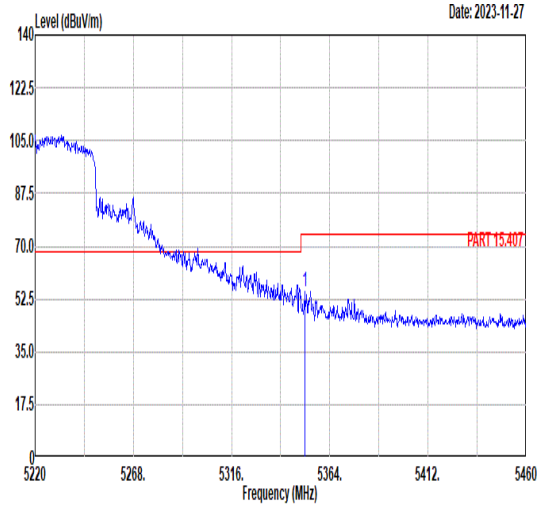
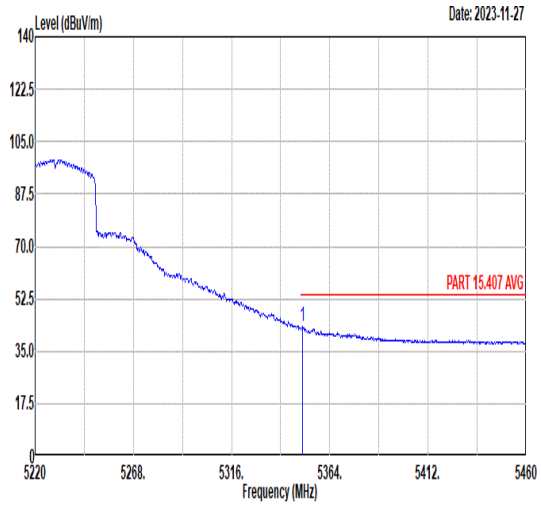
Mode	19	
	Band Edge - R	
	UNII 1_5.15-5.25_802.11ax HE40_CHCH38_Full RU_5190MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5354.16 48.09 74.00 -25.91 38.35 34.58 8.34 33.18 102 58 Peak	Blank
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 5403.16 38.36 54.00 -15.64 28.53 34.62 8.47 33.26 102 58 Average	Blank

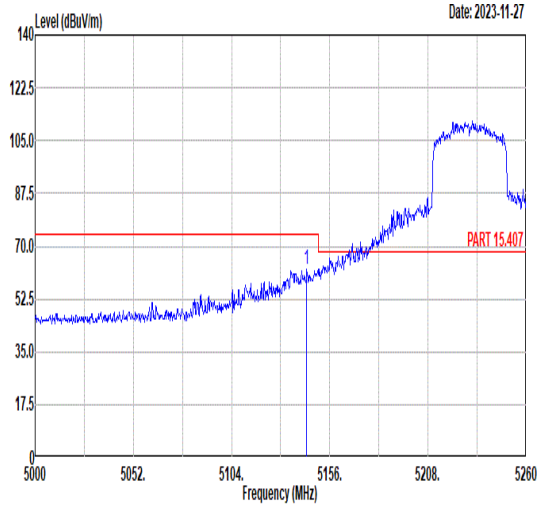
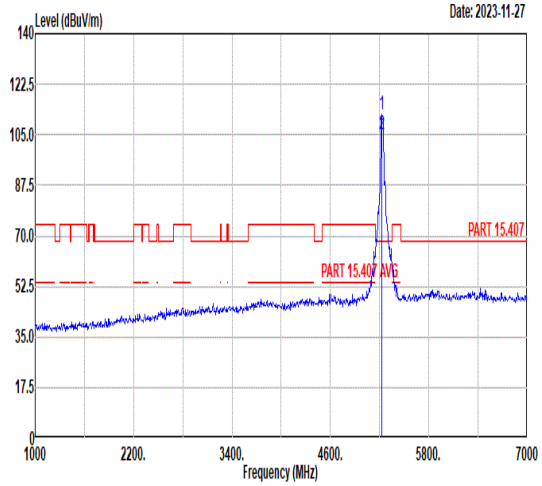
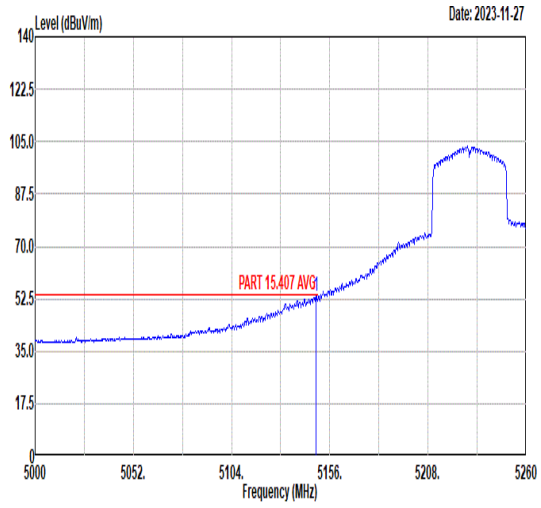
Mode	19	
	Band Edge - L	
	UNII 1_5.15-5.25_802.11ax HE40_CHCH38_Full RU_5190MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5147.42 63.79 74.00 -10.21 54.29 34.42 7.92 32.84 242 359 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 5182.00 107.06 ------ ------ 97.57 34.45 7.94 32.90 242 359 Peak 2 5190.00 99.91 ------ ------ 90.42 34.45 7.95 32.91 242 359 Average
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 5147.42 52.57 54.00 -1.43 43.07 34.42 7.92 32.84 242 359 Average	Blank

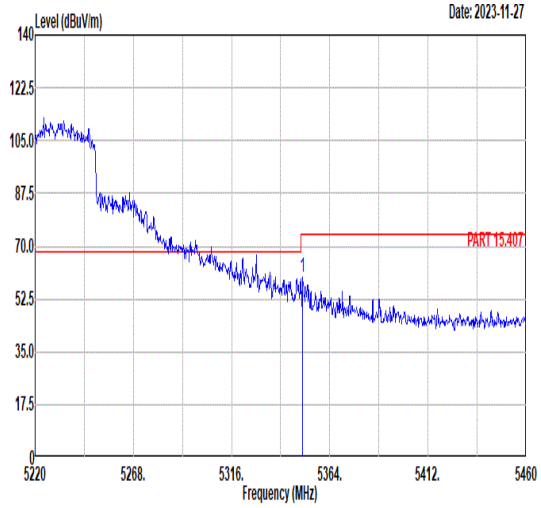
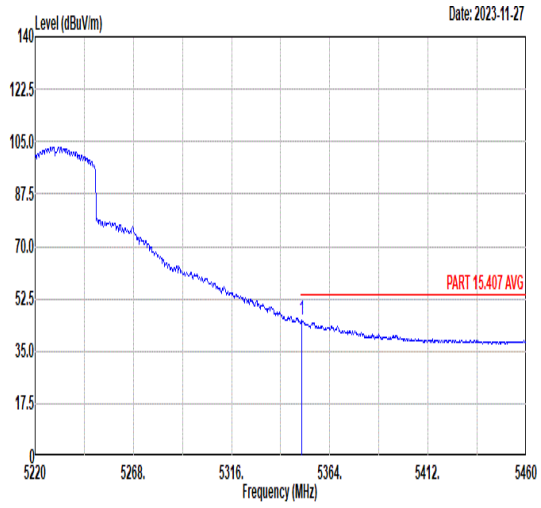
Mode	19	
	Band Edge - R	
	UNII 1_5.15-5.25_802.11ax HE40_CHCH38_Full RU_5190MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5365.92 48.01 74.00 -25.99 38.25 34.59 8.37 33.20 242 359 Peak	Blank
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 5410.72 38.55 54.00 -15.45 28.71 34.63 8.48 33.27 242 359 Average	Blank

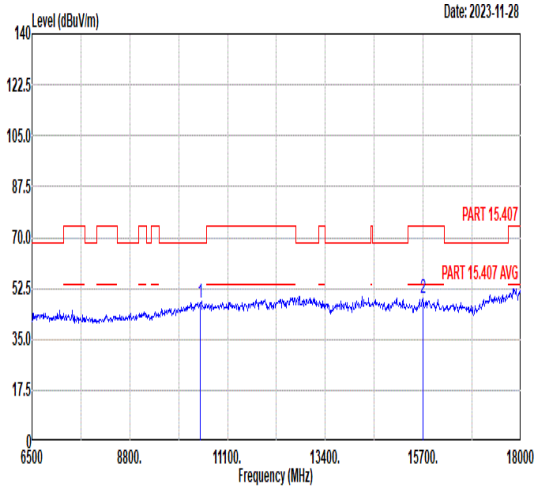
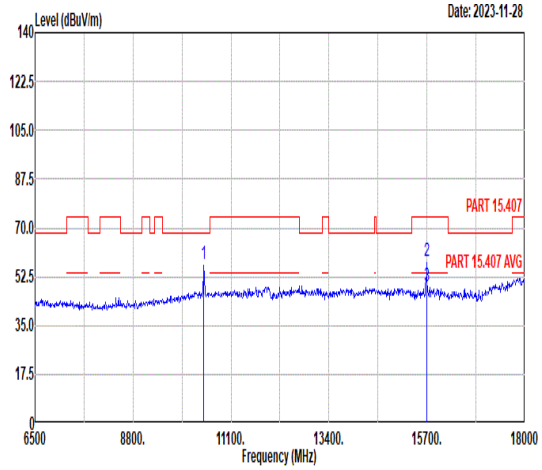
Mode	19	
	Harmonic	
	UNII 1_5.15-5.25_802.11ax HE40_CHCH38_Full RU_5190MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10380.00 48.02 68.30 -20.28 58.63 37.63 10.74 58.98 -- -- Peak 2 15570.00 46.39 74.00 -27.61 52.07 40.57 12.72 58.97 -- -- 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 10380.00 49.79 68.30 -18.51 60.40 37.63 10.74 58.98 -- -- Peak 2 15570.00 48.59 74.00 -25.41 54.27 40.57 12.72 58.97 -- -- Peak

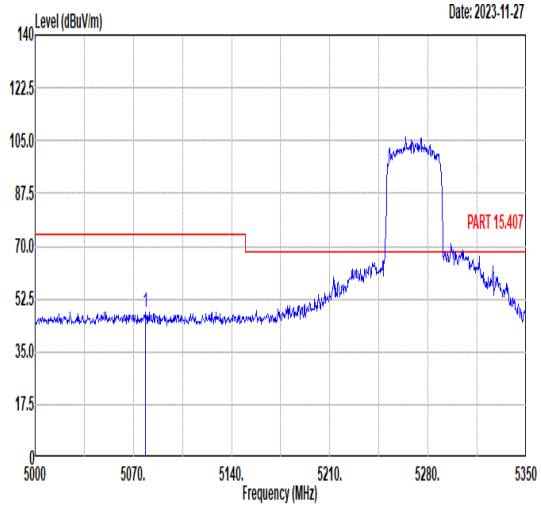
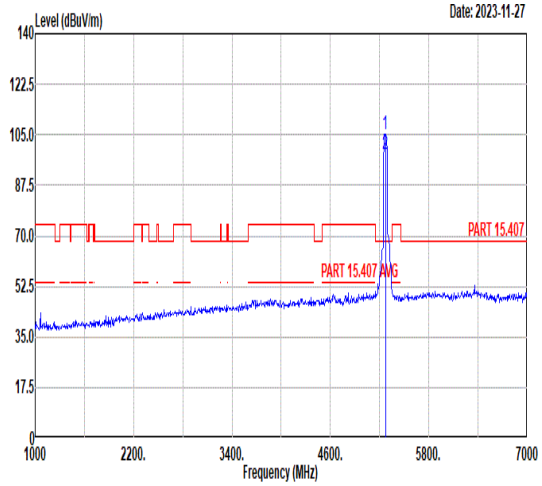
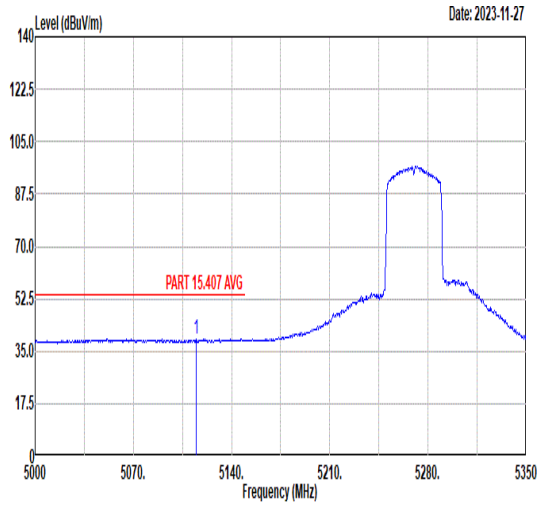
Mode	20	
	Band Edge - L	
	UNII 1_5.15-5.25_802.11ax HE40_CHCH46_Full RU_5230MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5137.80 57.54 74.00 -16.46 48.05 34.41 7.91 32.83 100 61 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 5230.00 107.79 ------ ------ 98.28 34.48 8.01 32.98 100 61 Peak 2 5230.00 100.77 ------ ------ 91.26 34.48 8.01 32.98 100 61 Average
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 5149.50 48.71 54.00 -5.29 39.22 34.42 7.92 32.85 100 61 Average	Blank

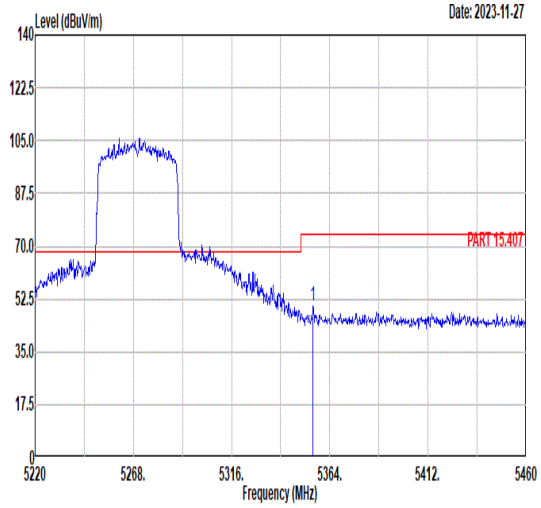
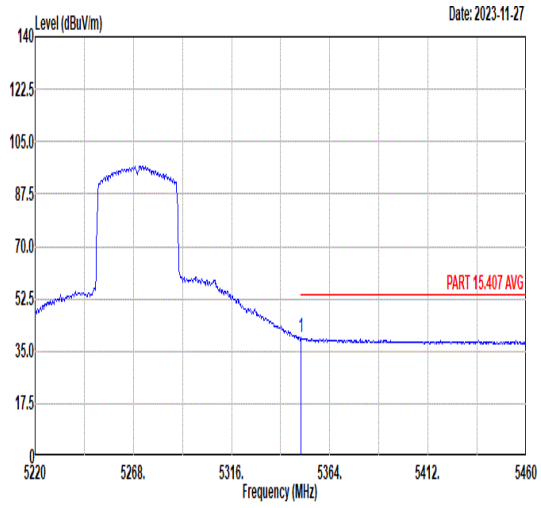
Mode	20	
	Band Edge - R	
	UNII 1_5.15-5.25_802.11ax HE40_CHCH46_Full RU_5230MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5351.76 54.91 74.00 -19.09 45.17 34.58 8.33 33.17 100 61 Peak	Blank
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 5350.80 43.06 54.00 -10.94 33.32 34.58 8.33 33.17 100 61 Average	Blank

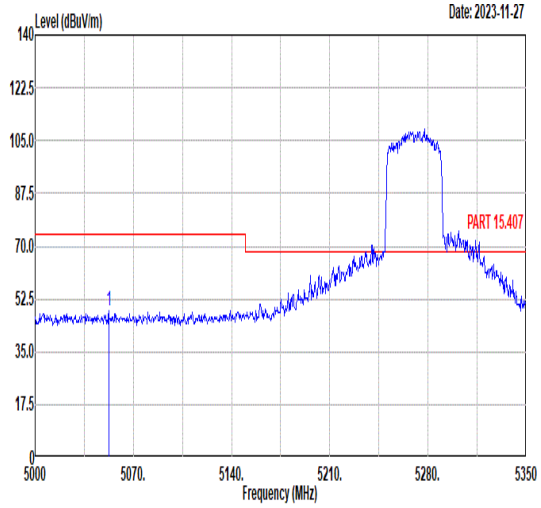
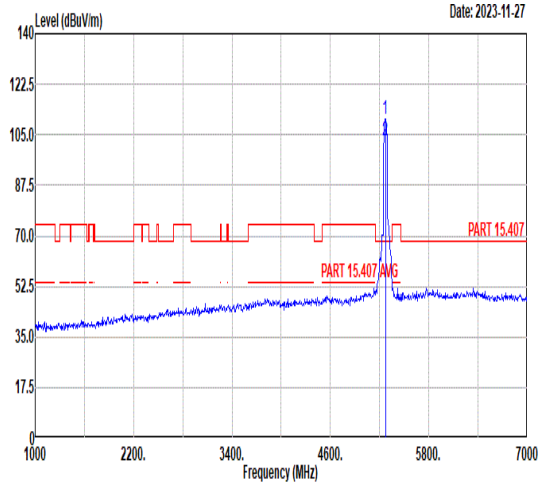
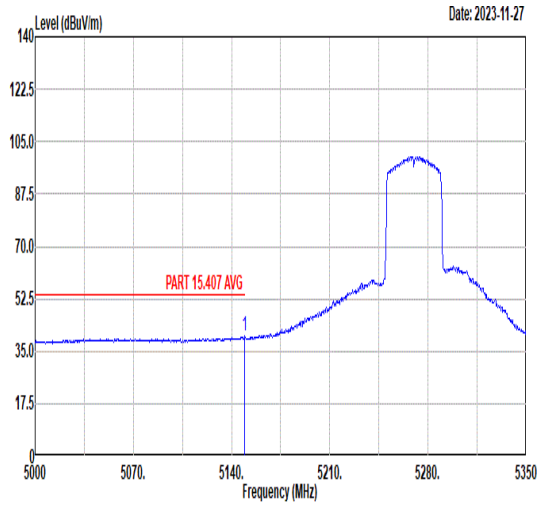
Mode	20	
	Band Edge - L	
	UNII 1_5.15-5.25_802.11ax HE40_CHCH46_Full RU_5230MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5143.78 62.15 74.00 -11.85 52.66 34.42 7.91 32.84 300 0 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 5230.00 111.84 ------ ------ 102.33 34.48 8.01 32.98 300 0 Peak 2 5230.00 105.15 ------ ------ 95.64 34.48 8.01 32.98 300 0 Average
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 5148.72 53.46 54.00 -0.54 43.96 34.42 7.92 32.84 300 0 Average	Blank

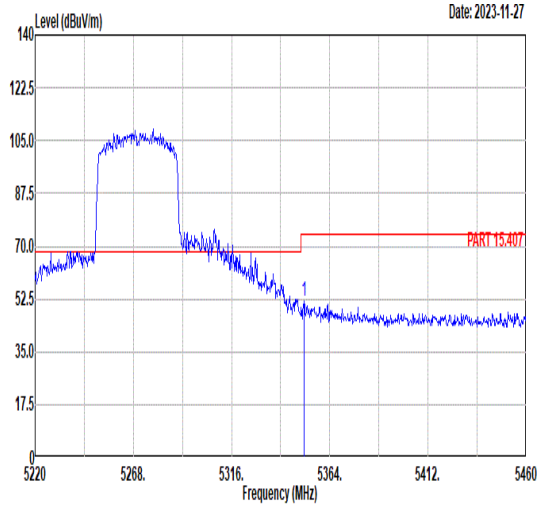
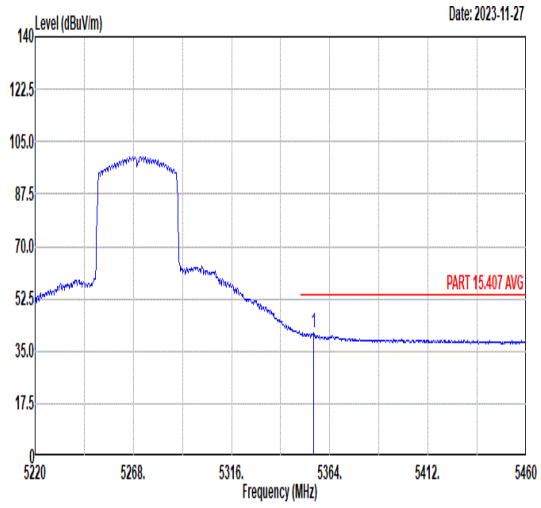
Mode	20	
	Band Edge - R	
	UNII 1_5.15-5.25_802.11ax HE40_CHCH46_Full RU_5230MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.56 59.95 74.00 -14.05 50.21 34.58 8.33 33.17 300 0 Peak	Blank
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 5350.32 45.40 54.00 -8.60 35.66 34.58 8.33 33.17 300 0 Average	Blank

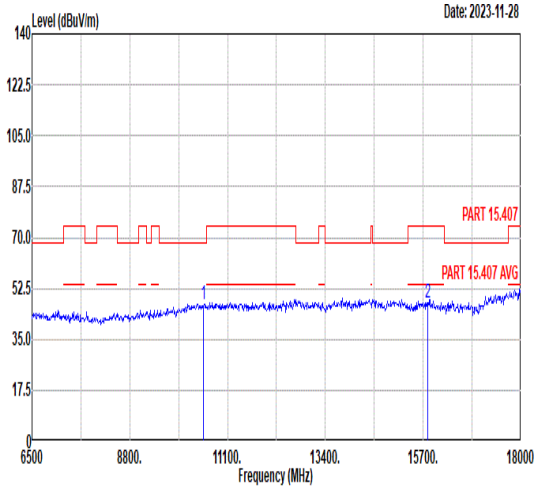
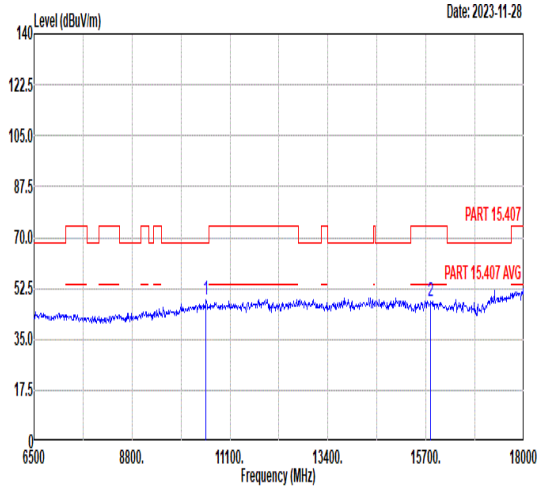
Mode	20	
	Harmonic	
	UNII 1_5.15-5.25_802.11ax HE40_CHCH46_Full RU_5230MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10460.00 47.35 68.30 -20.95 57.77 37.67 10.80 58.89 -- -- Peak 2 15690.00 49.07 74.00 -24.93 54.83 40.61 12.72 59.09 -- -- 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 57.28 68.30 -11.02 67.70 37.67 10.80 58.89 -- -- Peak 2 15690.00 57.85 74.00 -16.15 63.61 40.61 12.72 59.09 211 307 Peak 3 15690.00 49.18 54.00 -4.82 54.94 40.61 12.72 59.09 211 307 Average

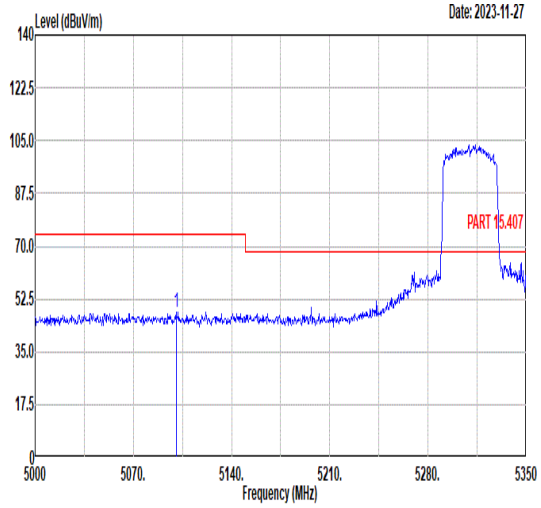
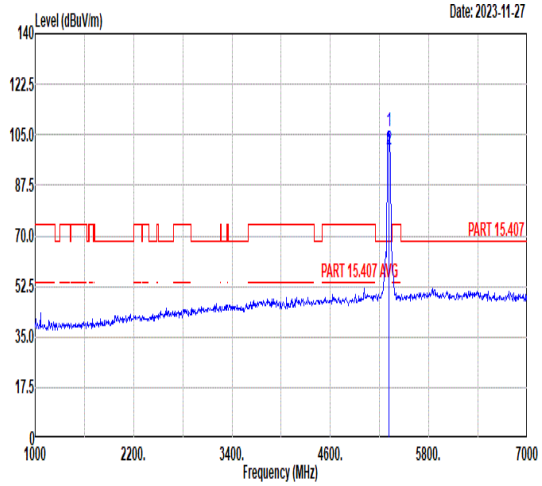
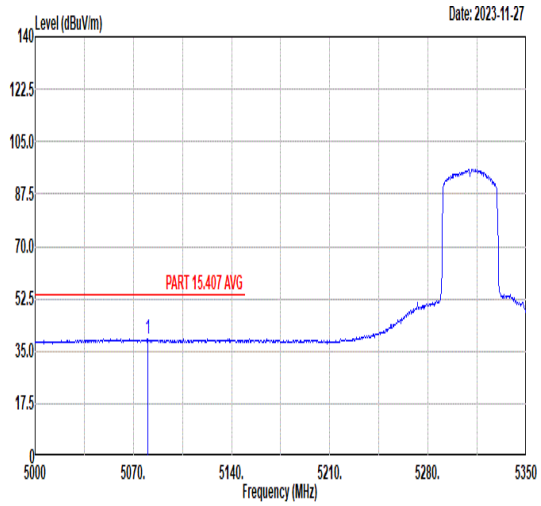
Mode	21	
	Band Edge - L	
	UNII 2A_5.25-5.35_802.11ax HE40_CHCH54_Full RU_5270MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5078.75 48.26 74.00 -25.74 38.75 34.37 7.87 32.73 110 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 5270.00 105.39 ------ ------ 95.80 34.52 8.11 33.04 110 65 Peak 2 5270.00 98.34 ------ ------ 88.75 34.52 8.11 33.04 110 65 Average
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 5114.80 39.11 54.00 -14.89 29.61 34.39 7.90 32.79 110 65 Average	Blank

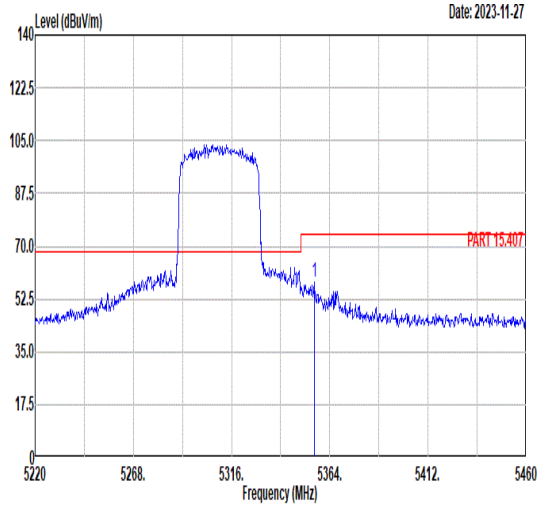
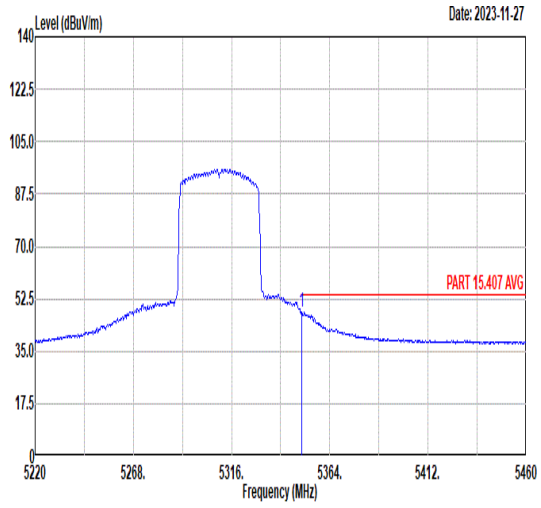
Mode	21	
	Band Edge - R	
	UNII 2A_5.25-5.35_802.11ax HE40_CHCH54_Full RU_5270MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5355.84 50.21 74.00 -23.79 40.47 34.58 8.34 33.18 110 65 Peak	Blank
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 5350.08 39.64 54.00 -14.36 29.90 34.58 8.33 33.17 110 65 Average	Blank

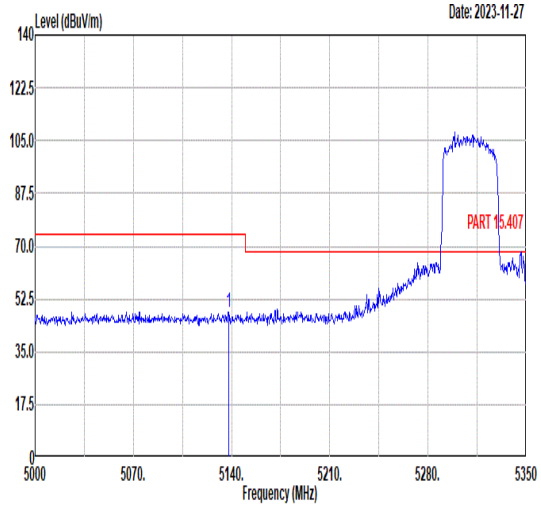
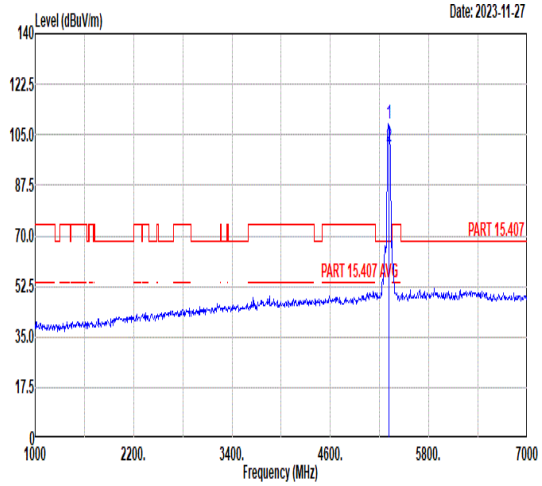
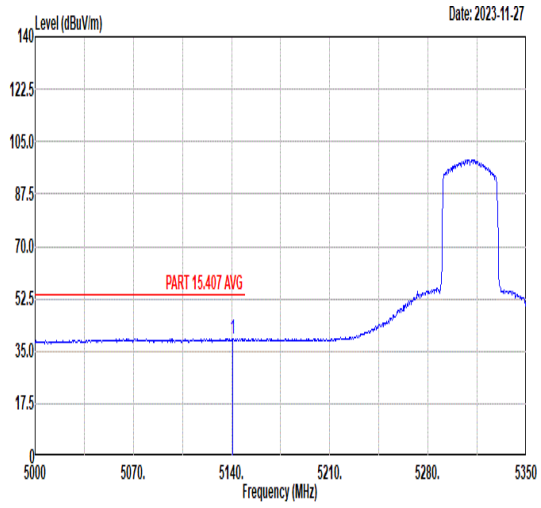
Mode	21	
	Band Edge - L	
	UNII 2A_5.25-5.35_802.11ax HE40_CHCH54_Full RU_5270MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5052.50 48.71 74.00 -25.29 39.20 34.35 7.85 32.69 272 0 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 5270.00 110.61 ------ ------ 101.02 34.52 8.11 33.04 272 0 Peak 2 5270.00 103.15 ------ ------ 93.56 34.52 8.11 33.04 272 0 Average
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 5149.45 39.96 54.00 -14.04 30.47 34.42 7.92 32.85 272 0 Average	Blank

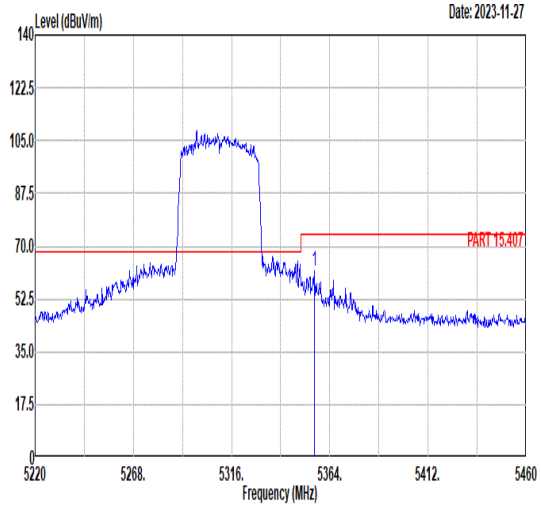
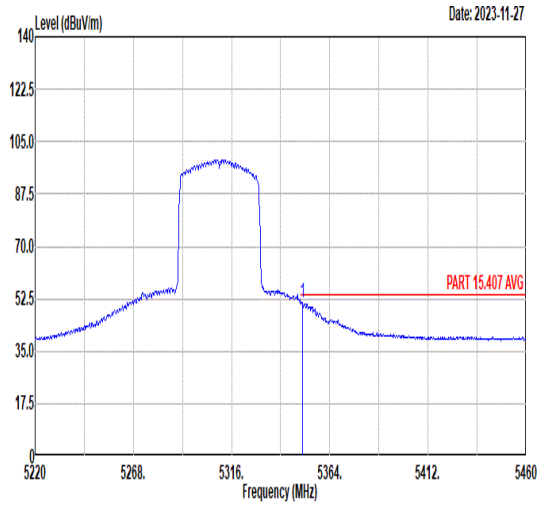
Mode	21	
	Band Edge - R	
	UNII 2A_5.25-5.35_802.11ax HE40_CHCH54_Full RU_5270MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5351.52 51.70 74.00 -22.30 41.96 34.58 8.33 33.17 272 0 Peak	Blank
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 5356.08 41.20 54.00 -12.80 31.46 34.58 8.34 33.18 272 0 Average	Blank

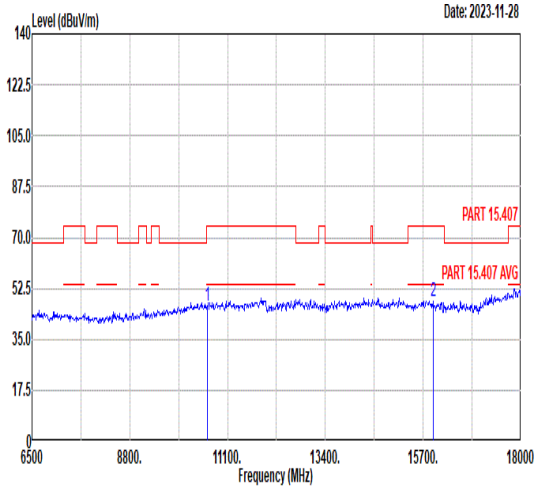
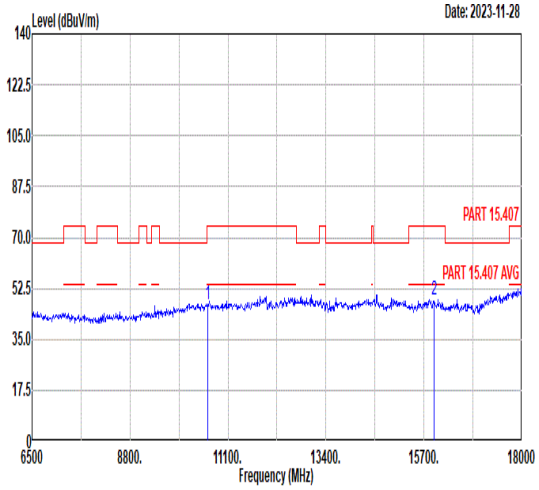
Mode	21	
	Harmonic	
	UNII 2A_5.25-5.35_802.11ax HE40_CHCH54_Full RU_5270MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10540.00 46.77 68.30 -21.53 56.98 37.73 10.86 58.80 -- -- Peak 2 15810.00 47.69 74.00 -26.31 53.55 40.64 12.71 59.21 -- -- 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 48.83 68.30 -19.47 59.04 37.73 10.86 58.80 -- -- Peak 2 15810.00 48.25 74.00 -25.75 54.11 40.64 12.71 59.21 -- -- Peak

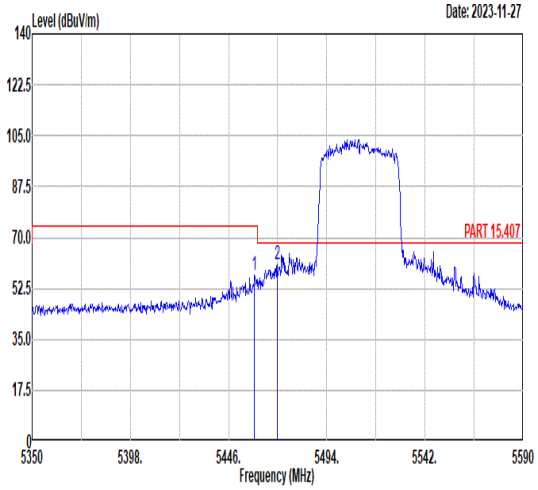
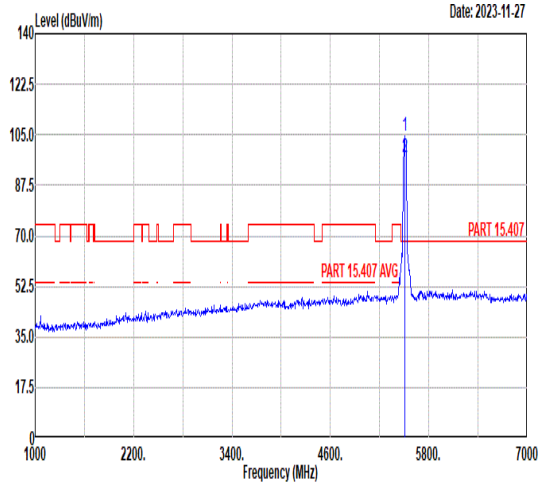
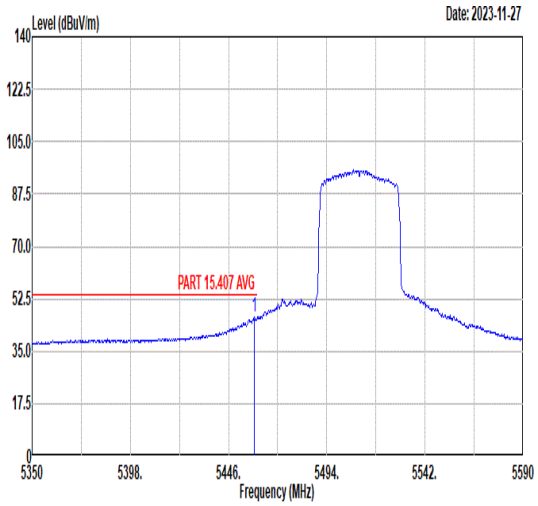
Mode	22	
	Band Edge - L	
	UNII 2A_5.25-5.35_802.11ax HE40_CHCH62_Full RU_5310MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5100.45 48.31 74.00 -25.69 38.81 34.38 7.89 32.77 102 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 5310.00 106.26 ------ ------ 96.60 34.55 8.22 33.11 102 63 Peak 2 5310.00 99.68 ------ ------ 90.02 34.55 8.22 33.11 102 63 Average
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 5080.15 39.29 54.00 -14.71 29.78 34.37 7.87 32.73 102 63 Average	Blank

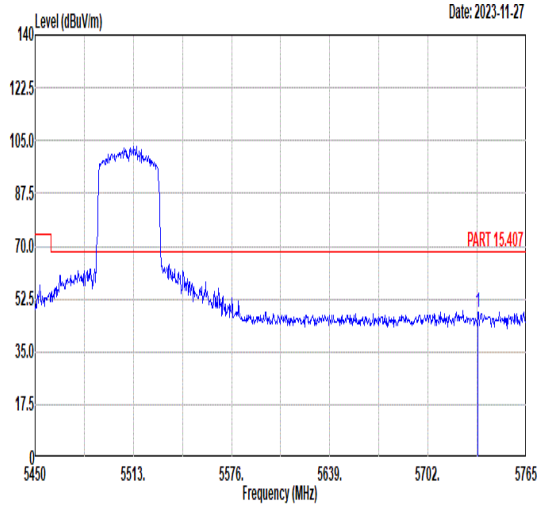
Mode	22	
	Band Edge - R	
	UNII 2A_5.25-5.35_802.11ax HE40_CHCH62_Full RU_5310MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5356.32 57.95 74.00 -16.05 48.21 34.58 8.34 33.18 102 63 Peak	Blank
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 5350.32 48.32 54.00 -5.68 38.58 34.58 8.33 33.17 102 63 Average	Blank

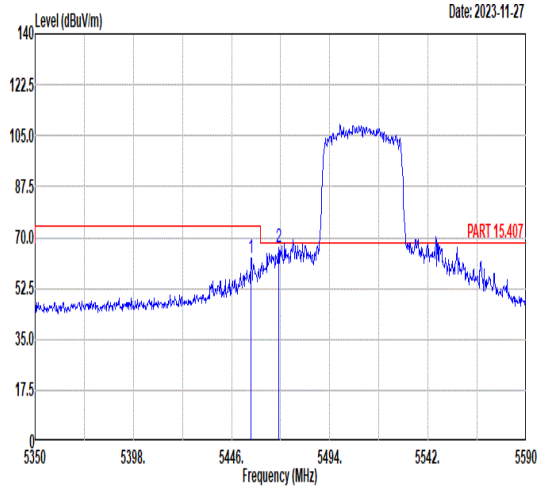
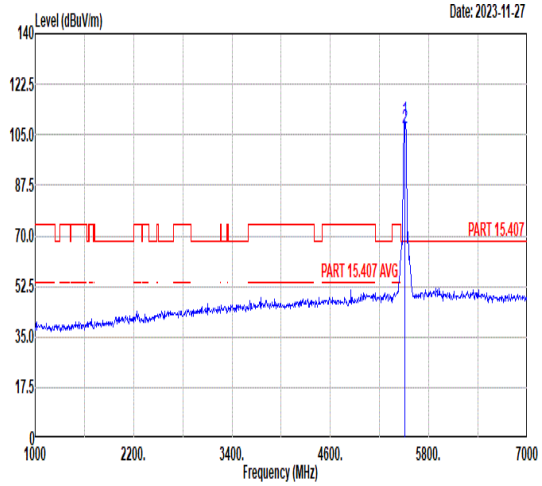
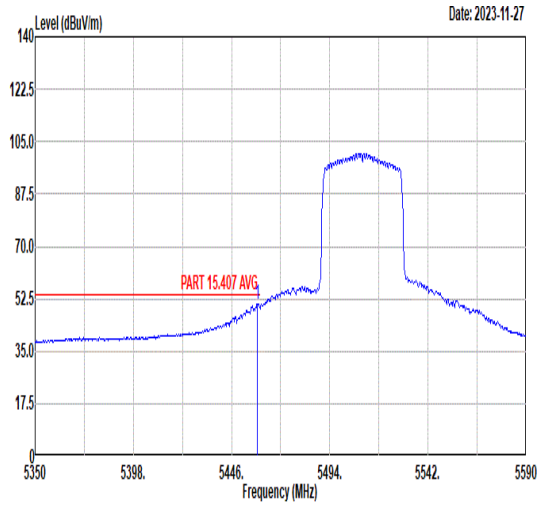
Mode	22	
	Band Edge - L	
	UNII 2A_5.25-5.35_802.11ax HE40_CHCH62_Full RU_5310MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5137.90 48.30 74.00 -25.70 38.81 34.41 7.91 32.83 275 358 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 5310.00 108.67 ------ ------ 99.01 34.55 8.22 33.11 275 358 Peak 2 5310.00 101.05 ------ ------ 91.39 34.55 8.22 33.11 275 358 Average
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 5140.70 39.20 54.00 -14.80 29.71 34.41 7.91 32.83 275 358 Average	Blank

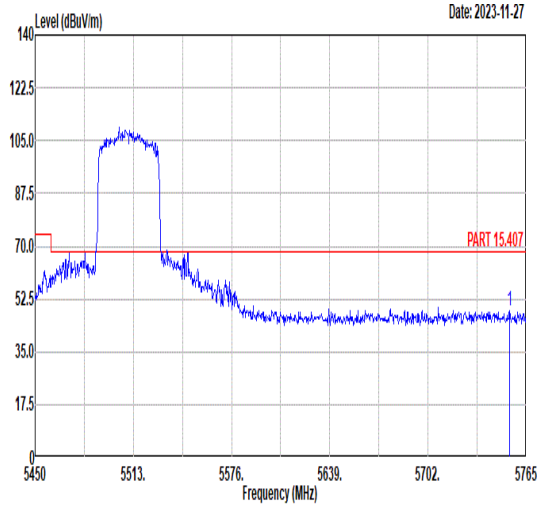
Mode	22	
	Band Edge - R	
	UNII 2A_5.25-5.35_802.11ax HE40_CHCH62_Full RU_5310MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5356.32 61.97 74.00 -12.03 52.23 34.58 8.34 33.18 275 358 Peak	Blank
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 5350.56 51.35 54.00 -2.65 41.61 34.58 8.33 33.17 275 358 Average	Blank

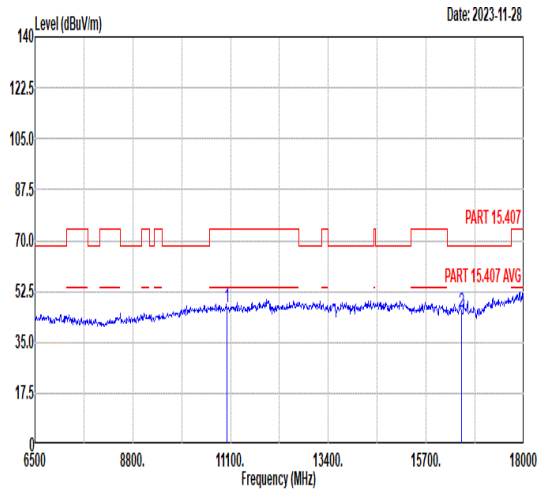
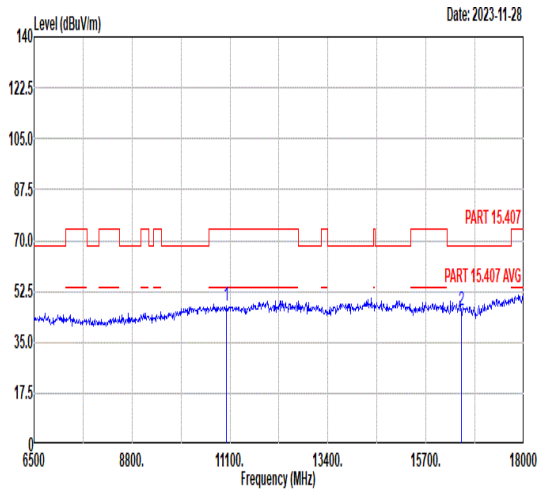
Mode	22	
	Harmonic	
	UNII 2A_5.25-5.35_802.11ax HE40_CHCH62_Full RU_5310MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10620.00 46.50 74.00 -27.50 56.50 37.79 10.92 58.71 -- -- Peak 2 15930.00 48.14 74.00 -25.86 54.10 40.68 12.70 59.34 -- -- 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 47.16 74.00 -26.84 57.16 37.79 10.92 58.71 -- -- Peak 2 15930.00 48.80 74.00 -25.20 54.76 40.68 12.70 59.34 -- -- Peak

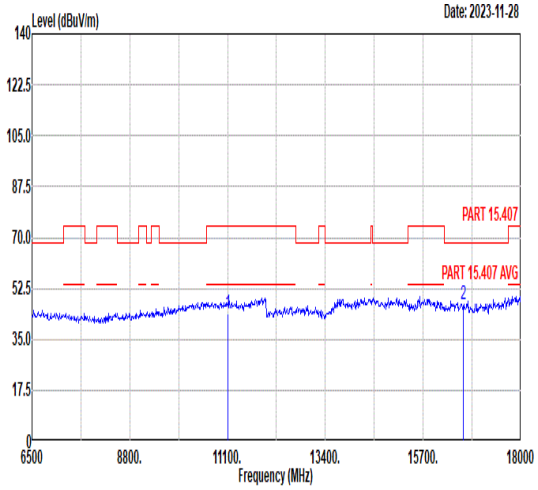
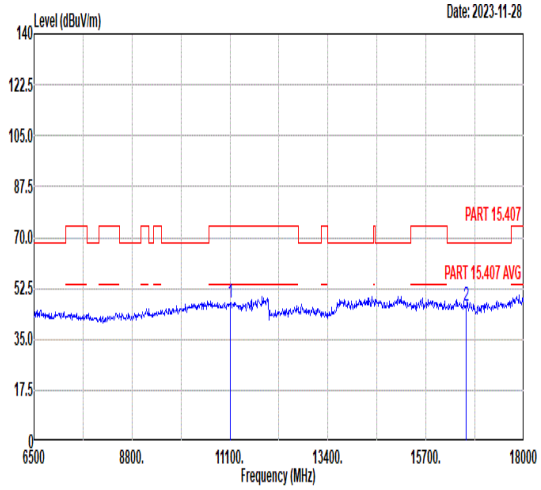
Mode	23	
	Band Edge - L	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH102_Full RU_5510MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5458.72 57.01 74.00 -16.99 47.29 34.66 8.41 33.35 100 63 Peak 2 5469.76 60.98 68.30 -7.32 51.27 34.67 8.40 33.36 100 63 Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5510.00 104.48 ------ ------ 94.83 34.71 8.34 33.40 100 63 Peak 2 5510.00 97.31 ------ ------ 87.66 34.71 8.34 33.40 100 63 Average
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5458.48 46.28 54.00 -7.72 36.56 34.66 8.41 33.35 100 63 Average	Blank

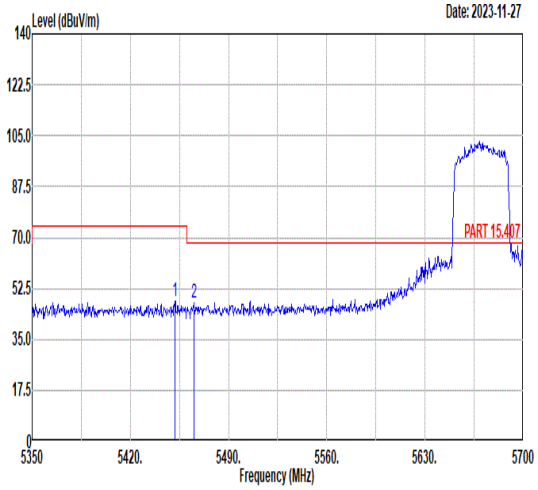
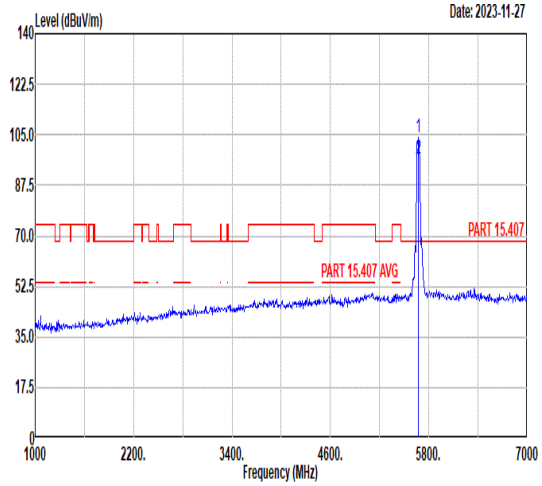
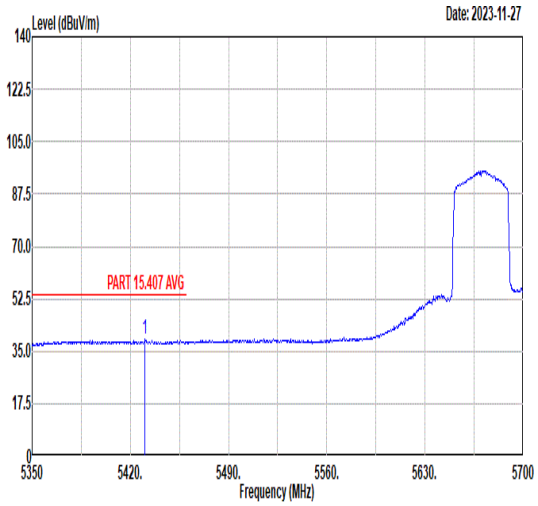
Mode	23	
	Band Edge - R	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH102_Full RU_5510MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5734.13 48.28 68.30 -20.02 37.85 35.07 8.71 33.35 100 63 Peak	Blank

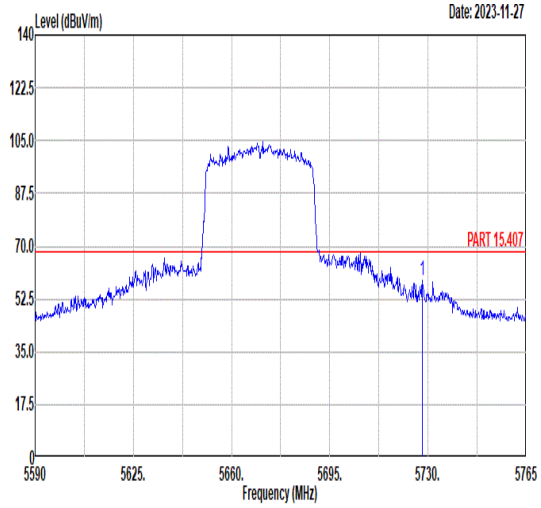
Mode	23	
	Band Edge - L	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH102_Full RU_5510MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5455.60 62.75 74.00 -11.25 53.01 34.66 8.42 33.34 237 233 Peak 2 5469.04 66.82 68.30 -1.48 57.11 34.67 8.40 33.36 237 233 Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5510.00 110.04 ------ ------ 100.39 34.71 8.34 33.40 237 233 Peak 2 5510.00 107.14 ------ ------ 97.49 34.71 8.34 33.40 237 233 Average
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5458.48 50.92 54.00 -3.08 41.20 34.66 8.41 33.35 237 233 Average	Blank

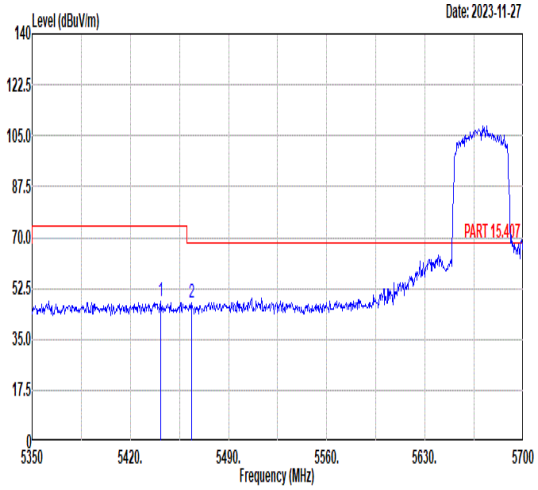
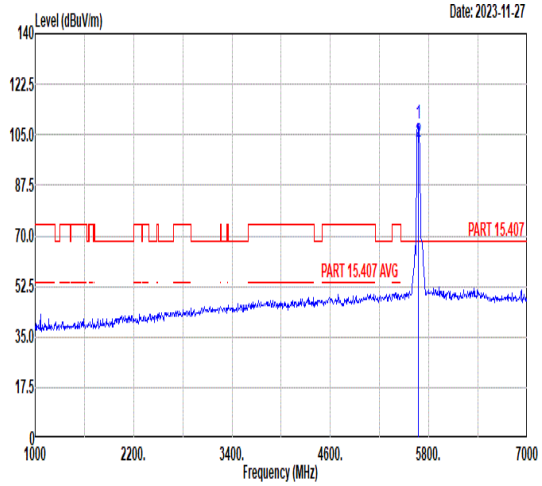
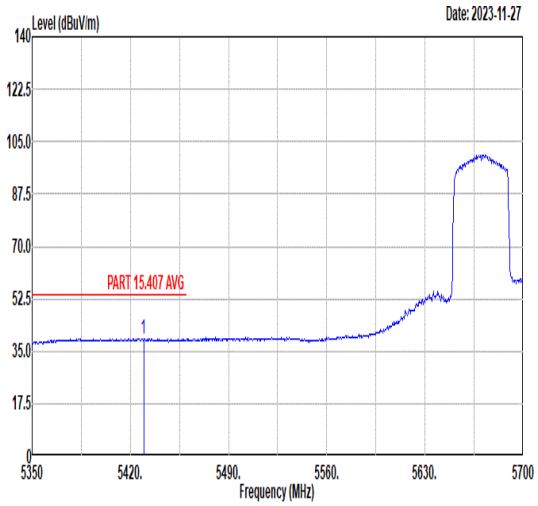
Mode	23	
	Band Edge - R	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH102_Full RU_5510MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5754.29 48.77 68.30 -19.53 38.24 35.10 8.78 33.35 237 233 Peak	Blank

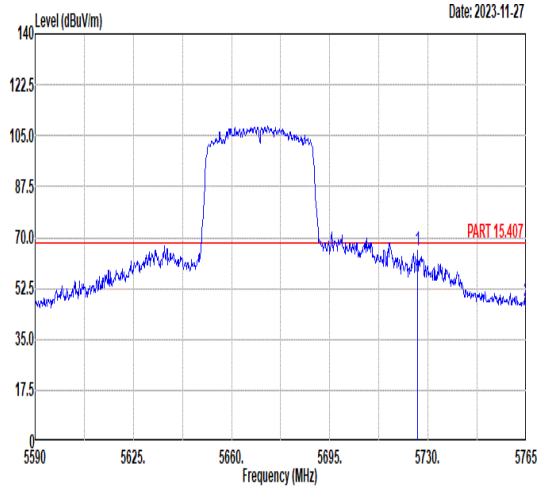
Mode	23	
	Harmonic	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH102_Full RU_5510MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11020.00 46.82 74.00 -27.18 55.75 38.12 11.22 58.27 -- -- Peak 2 16530.00 45.35 68.30 -22.95 50.27 40.97 12.92 58.81 -- -- 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 11020.00 47.60 74.00 -26.40 56.53 38.12 11.22 58.27 -- -- Peak 2 16530.00 46.15 68.30 -22.15 51.07 40.97 12.92 58.81 -- -- Peak

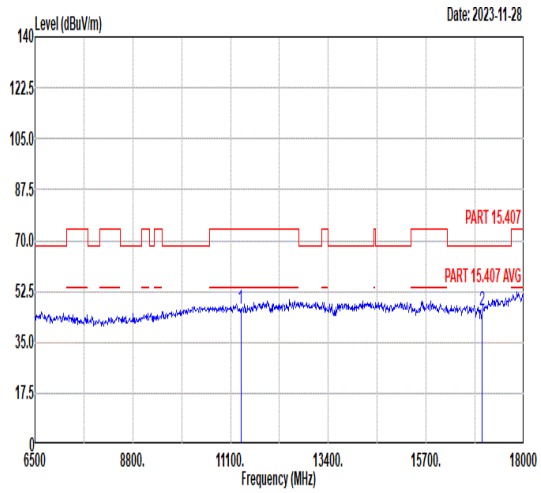
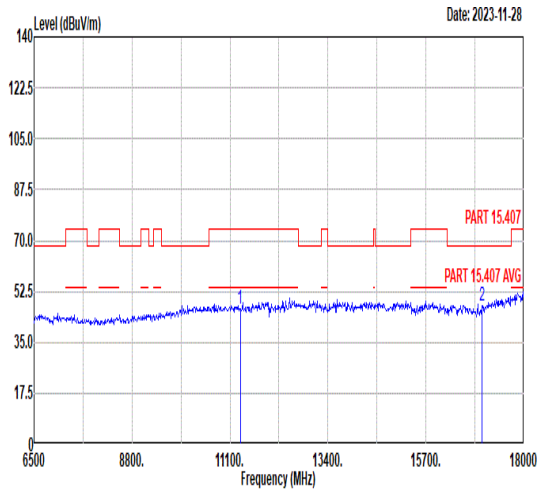
Mode	24	
	Harmonic	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH110_Full RU_5550MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11100.00 43.86 74.00 -30.14 52.59 38.20 11.26 58.19 -- -- Peak 2 16650.00 47.15 68.30 -21.15 51.83 41.03 12.97 58.68 -- -- 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 11100.00 47.74 74.00 -26.26 56.47 38.20 11.26 58.19 -- -- Peak 2 16650.00 46.35 68.30 -21.95 51.03 41.03 12.97 58.68 -- -- Peak

Mode	25	
	Band Edge - L	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH134_Full RU_5670MHz	
ANT	CDD 1+2	
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 5451.85 48.13 74.00 -25.87 38.38 34.66 8.42 33.33 100 53 Peak 2 5465.15 47.53 68.30 -20.77 37.82 34.67 8.40 33.36 100 53 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 5670.00 104.05 ------ ------ 93.98 34.97 8.47 33.37 100 53 Peak 2 5670.00 96.89 ------ ------ 86.82 34.97 8.47 33.37 100 53 Average
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 5430.50 38.89 54.00 -15.11 29.10 34.64 8.45 33.30 100 53 Average	Blank

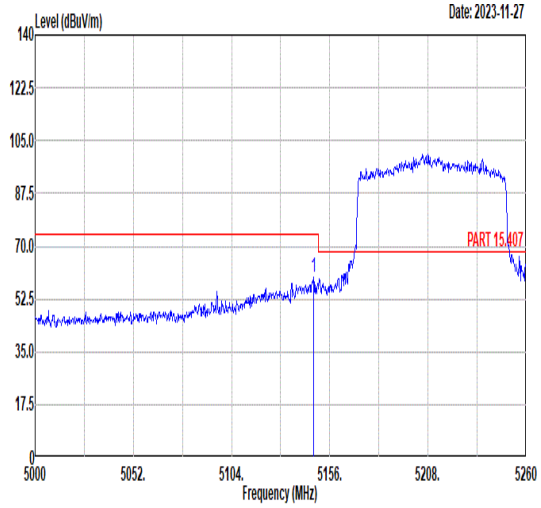
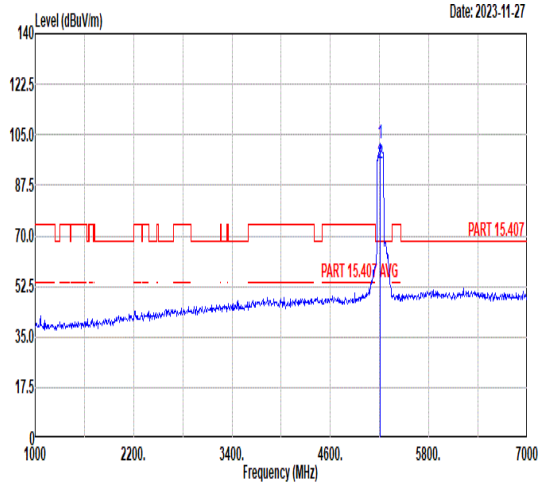
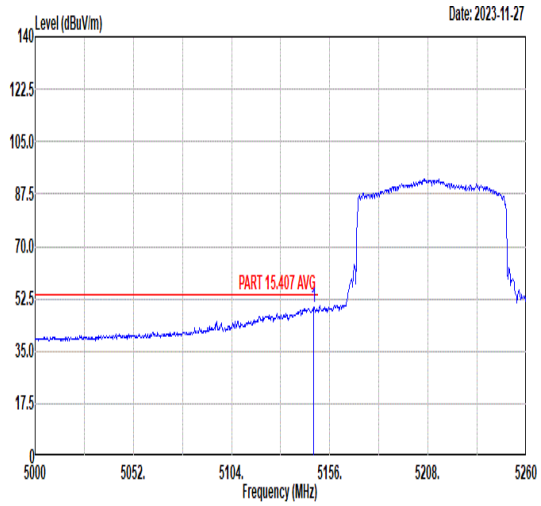
Mode	25	
	Band Edge - R	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH134_Full RU_5670MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5728.08 58.38 68.30 -9.92 47.98 35.06 8.69 33.35 100 53 Peak	Blank

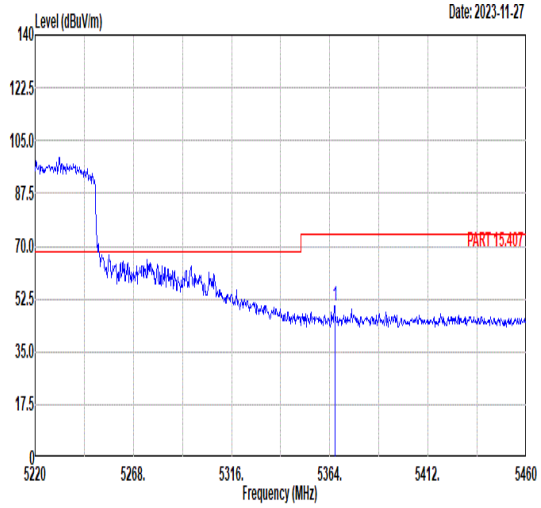
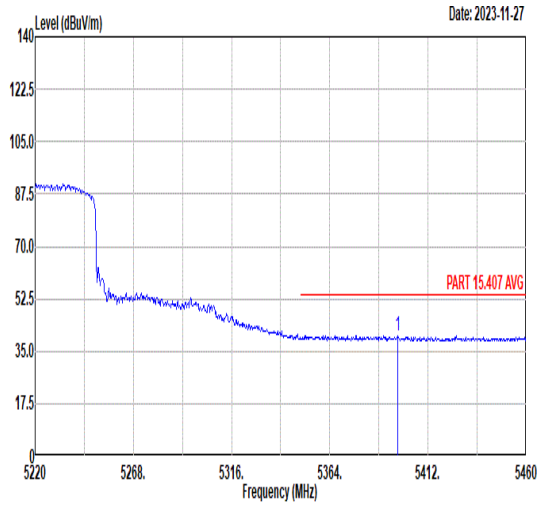
Mode	25	
	Band Edge - L	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH134_Full RU_5670MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5441.35 48.23 74.00 -25.77 38.47 34.65 8.43 33.32 264 235 Peak 2 5463.75 47.39 68.30 -20.91 37.67 34.67 8.40 33.35 264 235 Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5670.00 109.03 ------ ------ 98.96 34.97 8.47 33.37 264 235 Peak 2 5670.00 102.46 ------ ------ 92.39 34.97 8.47 33.37 264 235 Average
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5429.45 39.18 54.00 -14.82 29.39 34.64 8.45 33.30 264 235 Average	Blank

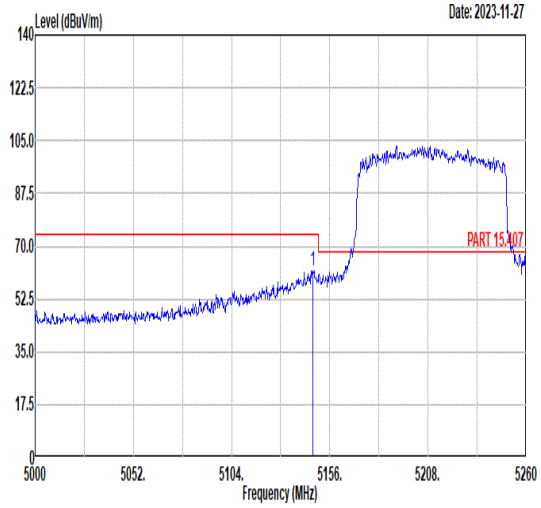
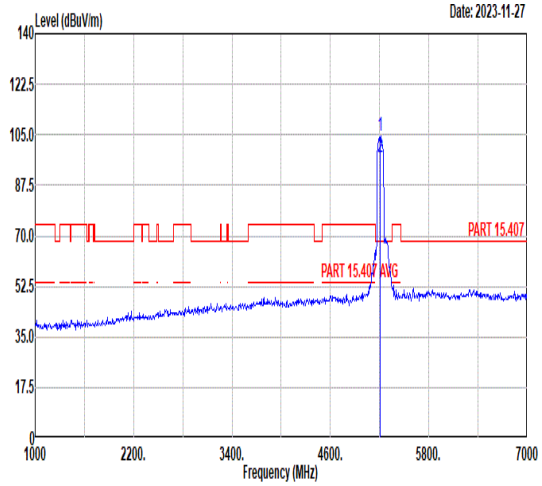
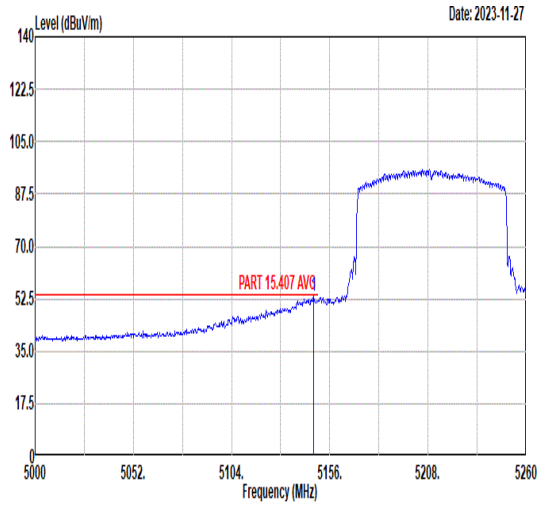
Mode	25	
	Band Edge - R	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH134_Full RU_5670MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5726.33 65.59 68.30 -2.71 55.20 35.06 8.68 33.35 264 235 Peak 2 5765.00 47.83 68.30 -20.47 37.24 35.12 8.82 33.35 264 235 Peak	Blank

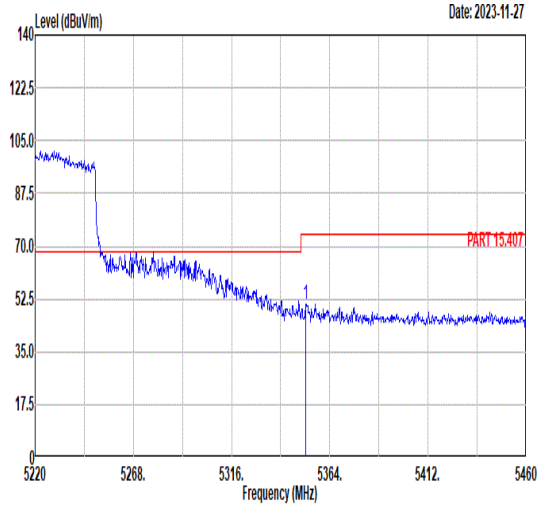
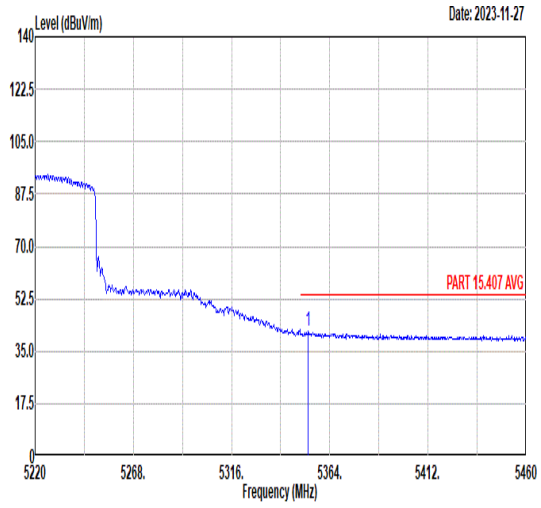
Mode	25	
	Harmonic	
	UNII 2C_5.47-5.725_802.11ax HE40_CHCH134_Full RU_5670MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11340.00 46.44 74.00 -27.56 54.54 38.44 11.38 57.92 -- -- Peak 2 17010.00 46.20 68.30 -22.10 50.15 41.21 13.12 58.28 -- -- 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 46.31 74.00 -27.69 54.41 38.44 11.38 57.92 -- -- Peak 2 17010.00 47.54 68.30 -20.76 51.49 41.21 13.12 58.28 -- -- Peak

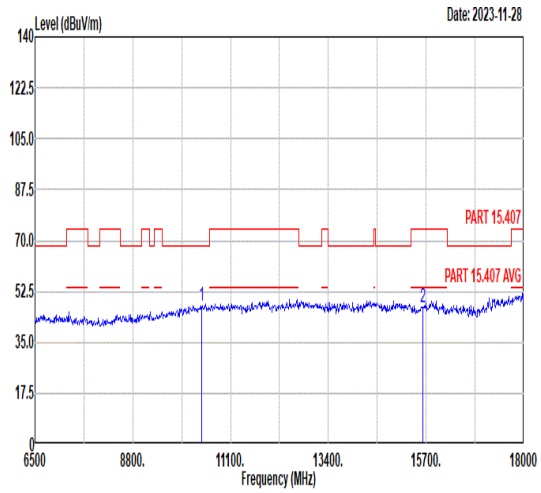
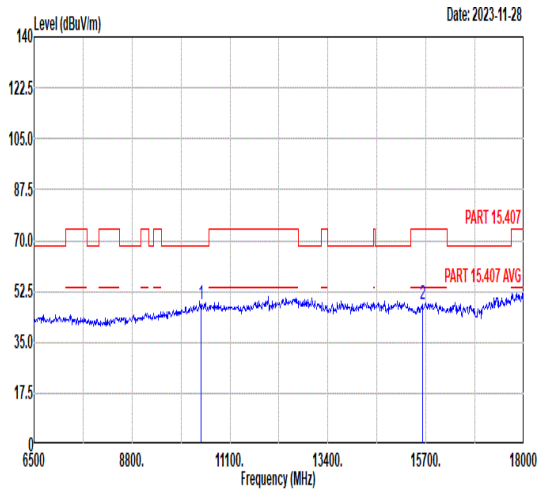
Mode	26
	Band Edge - L
	UNII 1_5.15-5.25_802.11ax HE80_CHCH42_Full RU_5210MHz
ANT	CDD 1+2

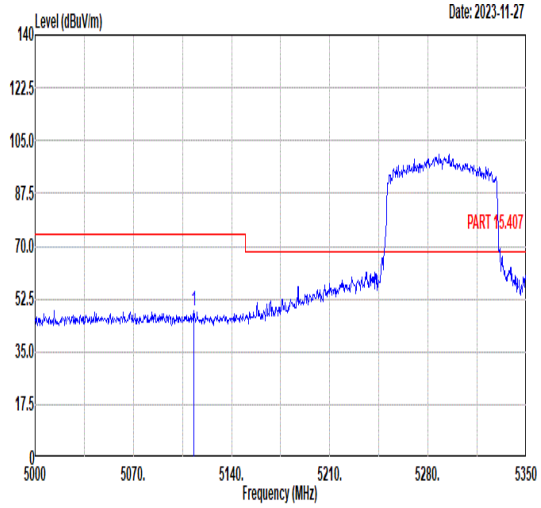
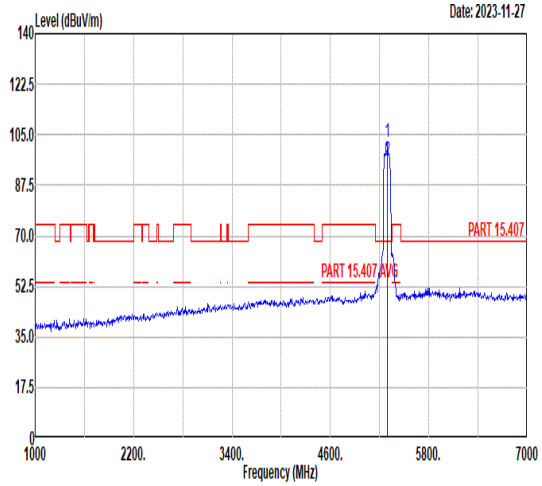
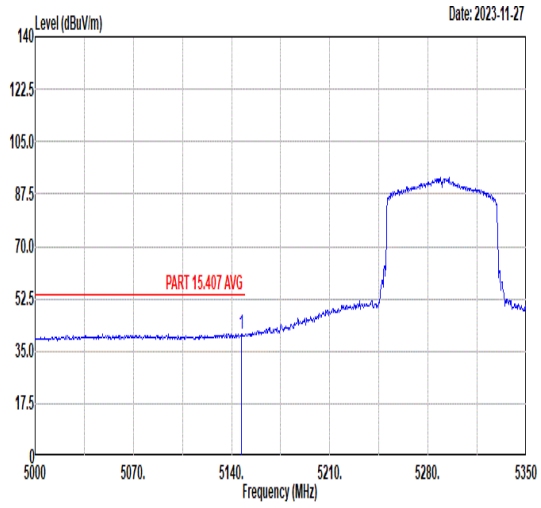
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5147.42 59.74 74.00 -14.26 50.24 34.42 7.92 32.84 100 360 Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5210.00 102.23 ------ ------ 92.74 34.47 7.96 32.94 100 360 Peak 2 5210.00 95.15 ------ ------ 85.66 34.47 7.96 32.94 100 360 Average
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 5147.42 49.74 54.00 -4.26 40.24 34.42 7.92 32.84 100 360 Average	Blank

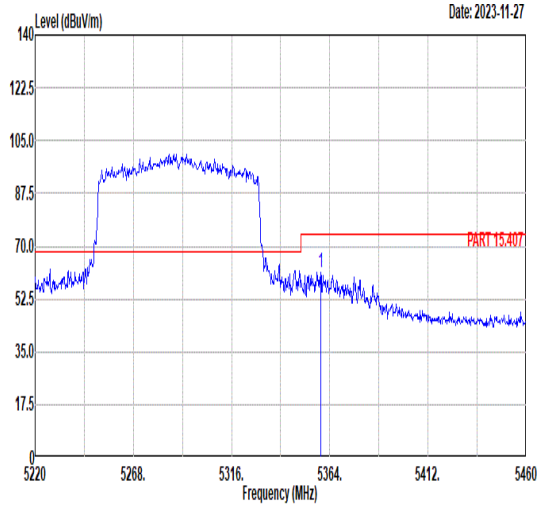
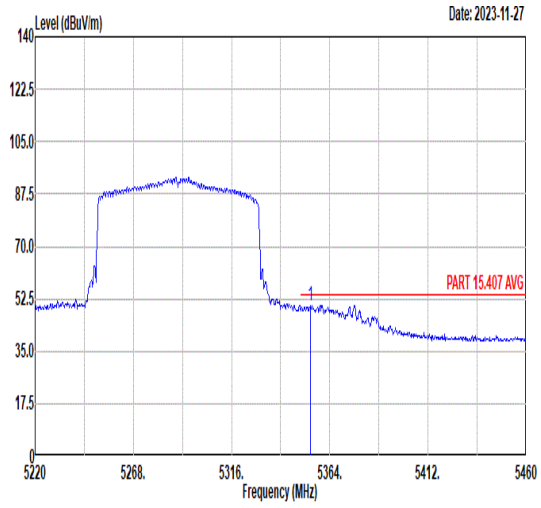
Mode	26	
	Band Edge - R	
	UNII 1_5.15-5.25_802.11ax HE80_CHCH42_Full RU_5210MHz	
ANT	CDD 1+2	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5366.40 50.09 74.00 -23.91 40.33 34.59 8.37 33.20 100 360 Peak	Blank
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 5397.12 40.18 54.00 -13.82 30.36 34.62 8.45 33.25 100 360 Average	Blank

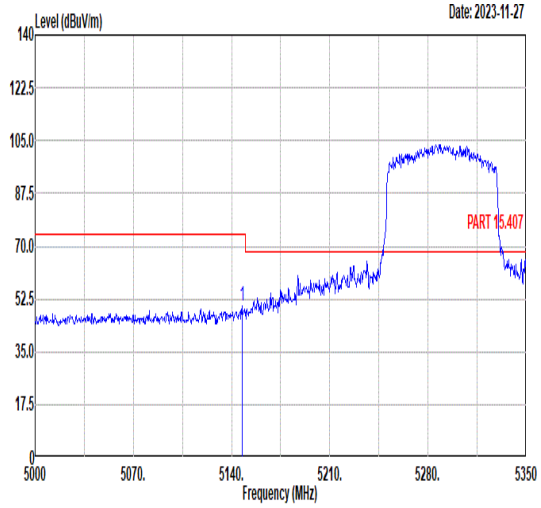
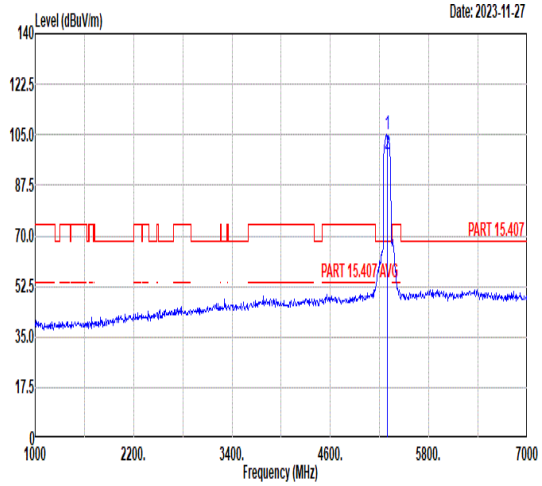
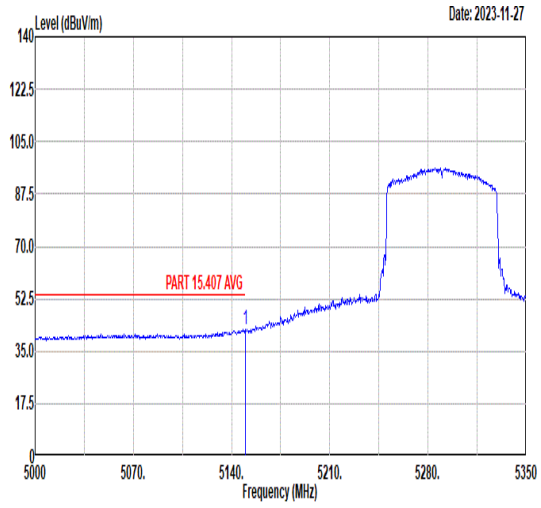
Mode	26	
	Band Edge - L	
	UNII 1_5.15-5.25_802.11ax HE80_CHCH42_Full RU_5210MHz	
ANT	CDD 1+2	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5146.90 62.07 74.00 -11.93 52.57 34.42 7.92 32.84 270 360 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 5210.00 104.57 ------ ------ 95.08 34.47 7.96 32.94 270 360 Peak 2 5210.00 97.30 ------ ------ 87.81 34.47 7.96 32.94 270 360 Average
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 5147.42 53.15 54.00 -0.85 43.65 34.42 7.92 32.84 270 360 Average	Blank

Mode	26	
	Band Edge - R	
	UNII 1_5.15-5.25_802.11ax HE80_CHCH42_Full RU_5210MHz	
ANT	CDD 1+2	
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 5352.24 50.81 74.00 -23.19 41.07 34.58 8.33 33.17 270 360 Peak	Blank
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 5353.44 41.61 54.00 -12.39 31.87 34.58 8.34 33.18 270 360 Average	Blank

Mode	26	
	Harmonic	
	UNII 1_5.15-5.25_802.11ax HE80_CHCH42_Full RU_5210MHz	
ANT	CDD 1+2	
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 10420.00 47.37 68.30 -20.93 57.88 37.65 10.77 58.93 -- -- Peak 2 15630.00 47.20 74.00 -26.80 52.92 40.59 12.72 59.03 -- -- 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 10420.00 47.93 68.30 -20.37 58.44 37.65 10.77 58.93 -- -- Peak 2 15630.00 47.83 74.00 -26.17 53.55 40.59 12.72 59.03 -- -- Peak

Mode	27	
	Band Edge - L	
	UNII 2A_5.25-5.35_802.11ax HE80_CHCH58_Full RU_5290MHz	
ANT	CDD 1+2	
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 5113.05 48.72 74.00 -25.28 39.23 34.39 7.89 32.79 100 347 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 5290.00 102.33 ------ ------ 92.70 34.53 8.17 33.07 100 347 Peak 2 5290.00 95.91 ------ ------ 86.28 34.53 8.17 33.07 100 347 Average
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 5147.00 40.83 54.00 -13.17 31.33 34.42 7.92 32.84 100 347 Average	Blank

Mode	27	
	Band Edge - R	
	UNII 2A_5.25-5.35_802.11ax HE80_CHCH58_Full RU_5290MHz	
ANT	CDD 1+2	
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 5359.44 61.32 74.00 -12.68 51.57 34.59 8.35 33.19 100 347 Peak	Blank
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 5354.40 50.31 54.00 -3.69 40.57 34.58 8.34 33.18 100 347 Average	Blank

Mode	27	
	Band Edge - L	
	UNII 2A_5.25-5.35_802.11ax HE80_CHCH58_Full RU_5290MHz	
ANT	CDD 1+2	
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 5147.35 50.24 74.00 -23.76 40.74 34.42 7.92 32.84 274 359 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 5290.00 105.13 ------ ------ 95.50 34.53 8.17 33.07 274 359 Peak 2 5290.00 98.28 ------ ------ 88.65 34.53 8.17 33.07 274 359 Average
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 5149.80 42.31 54.00 -11.69 32.82 34.42 7.92 32.85 274 359 Average	Blank