FCC RF Test Report

APPLICANT	:	VeriFone, Inc.
EQUIPMENT	:	Point of Sale Terminal
BRAND NAME	:	Verifone & VERIFONE
MODEL NAME	:	V660p-A,V660p Plus-A
FCC ID	:	B32V660PA
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Apr. 20, 2024 ~ Jun. 07, 2024

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

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

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.02

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR440202F	Rev. 01	Initial issue of report	Jul. 02, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b)(4)(i) &15.209(a)	Pass	Under limit 9.85 dB at 5942.980 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.29 dB at 0.459 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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

1 General Description

1.1 Applicant

VeriFone, Inc.
1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

1.2 Manufacturer

VeriFone, Inc.
1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Point of Sale Terminal
Brand Name	Verifone & VERIFONE
Model Name	V660p-A,V660p Plus-A
FCC ID	B32V660PA
IMEI Code	Conducted: 356784410000664/356784410000672 Conduction: 355510160000062/355510160000070 Radiation: 356784410000144/356784410000151
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two samples under test, Sample 1 (V660p-A) is dual P-SIM sample, and Sample 2 (V660p Plus-A) is P-SIM + E-SIM sample. The difference does not affect RF features, full test Sample 1 for representative.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power	**<5745 MHz ~ 5825 MHz>** 802.11a : 16.82 dBm / 0.0481 W 802.11n HT20 : 16.71 dBm / 0.0469 W 802.11n HT40 : 16.46 dBm / 0.0443 W 802.11ac VHT20: 15.83 dBm / 0.0383 W 802.11ac VHT40: 15.60 dBm / 0.0363 W 802.11ac VHT80: 14.40 dBm / 0.0275 W
99% Occupied Bandwidth	802.11a : 16.733 MHz 802.11n HT20 : 17.932 MHz 802.11n HT40 : 36.663 MHz 802.11ac VHT80 : 75.644 MHz
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
Antenna Type / Gain	Monopole Antenna with gain -0.30 dBi

Note: For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11n HT20/HT40 by referring to their maximum output power.

1.5 Modification of EUT

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

1.6 Testing Location

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-KS 03CH08-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC 15C-15E Test Tools Ver10.0_210607	10.0
2.	03CH08-KS	AUDIX	E3	210616
3.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

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

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.

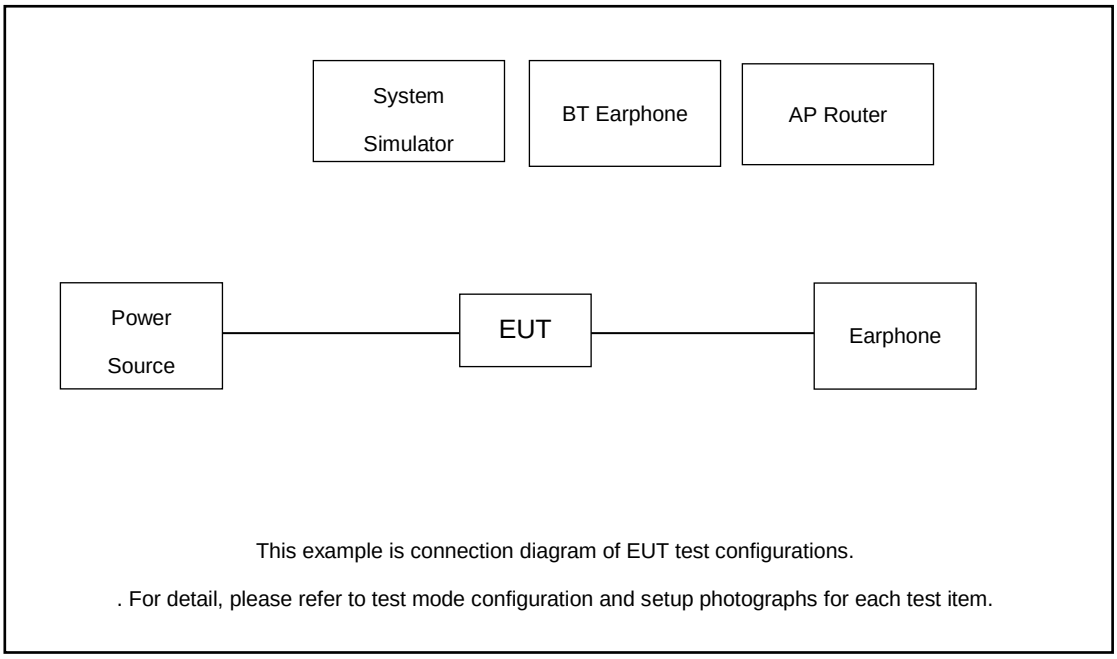
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WCDMA 850 Idle + WIFI 5G Link + Bluetooth Link + USB Cable(charging from Adaptor 4 + Earphone + Battery
Remark: The Radiated tests were performed with Adapter 8, Battery, Earphone, USB Cable.	

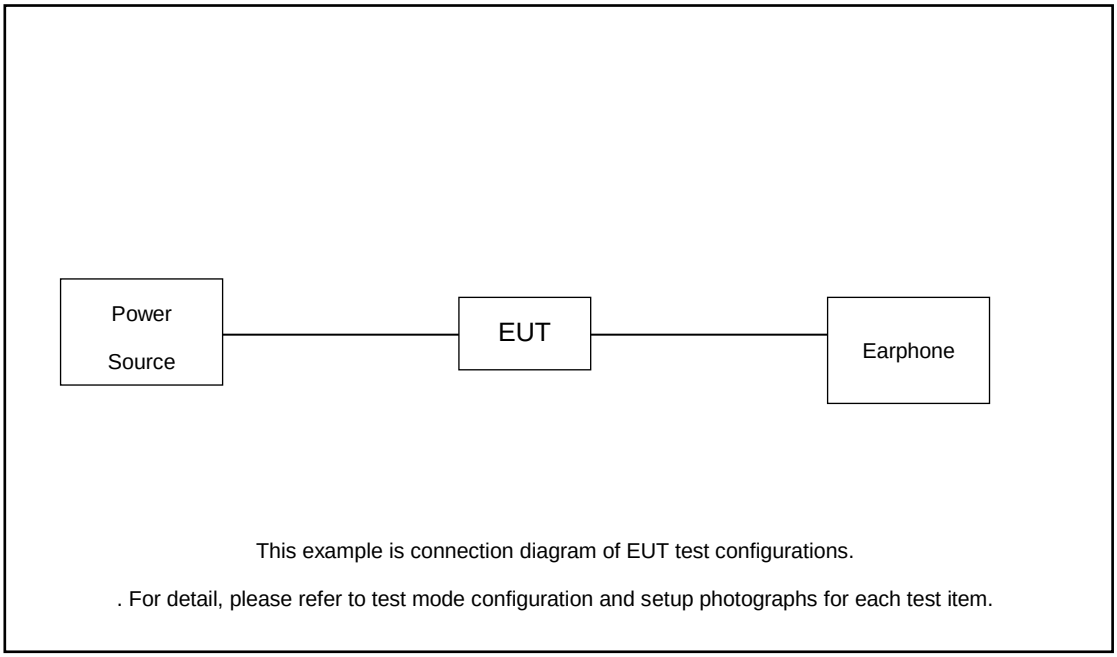
Ch. #		U-NII-3		
		20M BW	40M BW	80M BW
L	Low	149	151	-
M	Middle	157	-	155
H	High	165	159	-

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	Unshielded AC I/P cable 1.8m
4.	WLAN AP	EDIMAX	EW-7679WAC	NDD9576791401	N/A	Unshielded,1.8m

2.5 EUT Operation Test Setup

The RF test items, make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

The EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7.00 dB

Offset(dB) = RF cable loss(dB)

= 7.00(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.

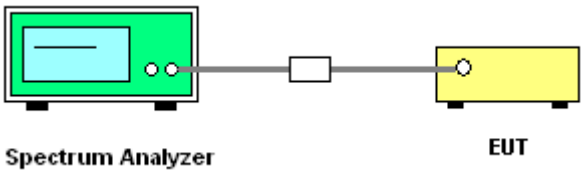
3.1.2 Measuring Instruments

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) Emission bandwidth for the band 5.725-5.85GHz
2. For 6dB BW, Set RBW = 100kHz.
   For 26dB BW, Set RBW = approximately 1% of the emission bandwidth.
   For 99% OBW, Set RBW = 1% to 5% of the OBW.
3. For 26dB BW, Set the VBW > RBW.
   For 6dB BW & 99% OBW, Set the VBW ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

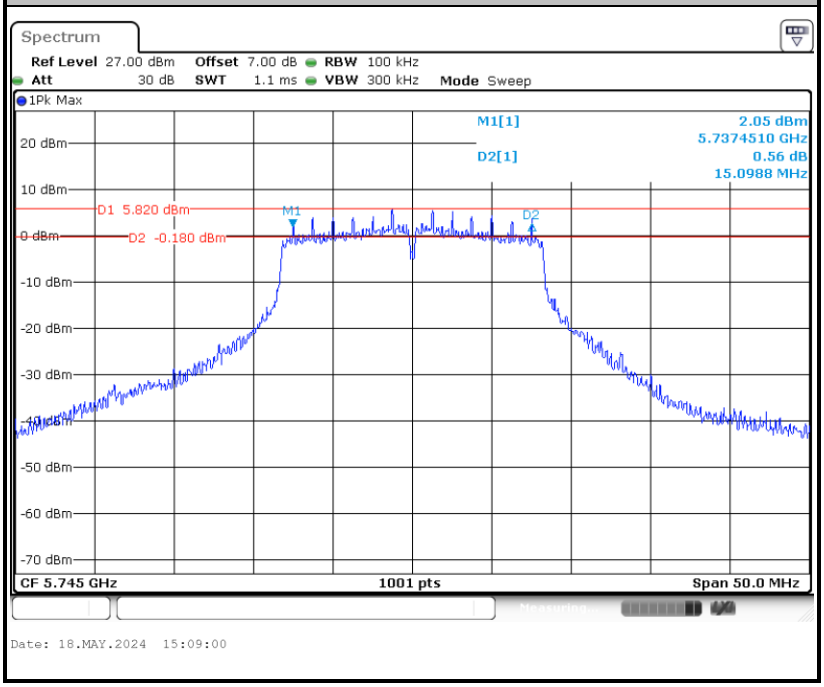
3.1.4 Test Setup



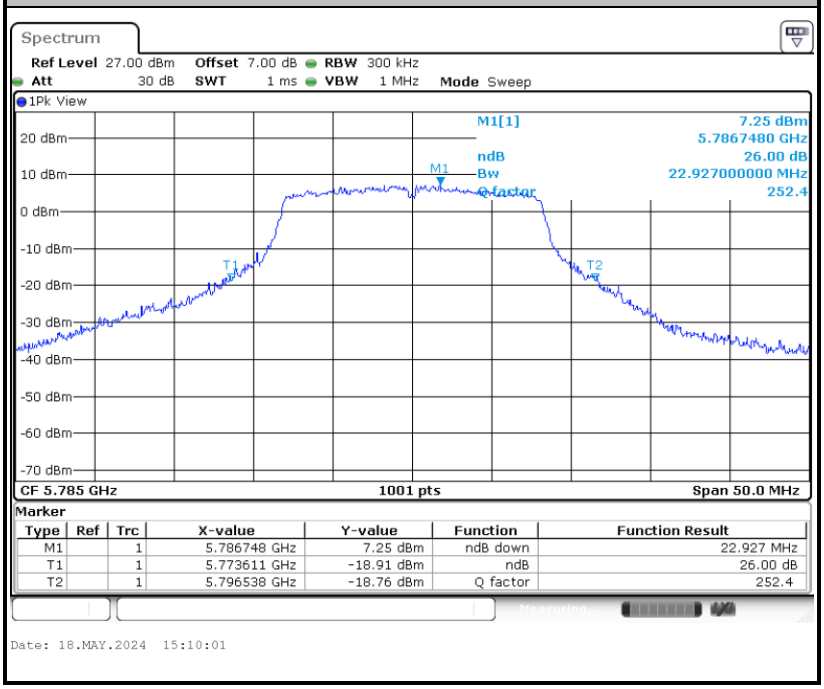
3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

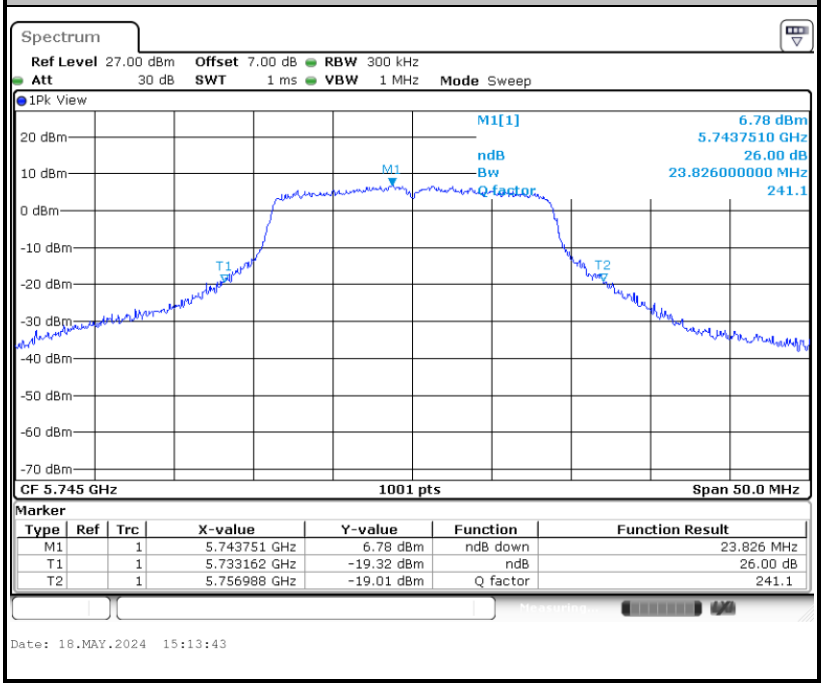
Minimum 6dB Bandwidth



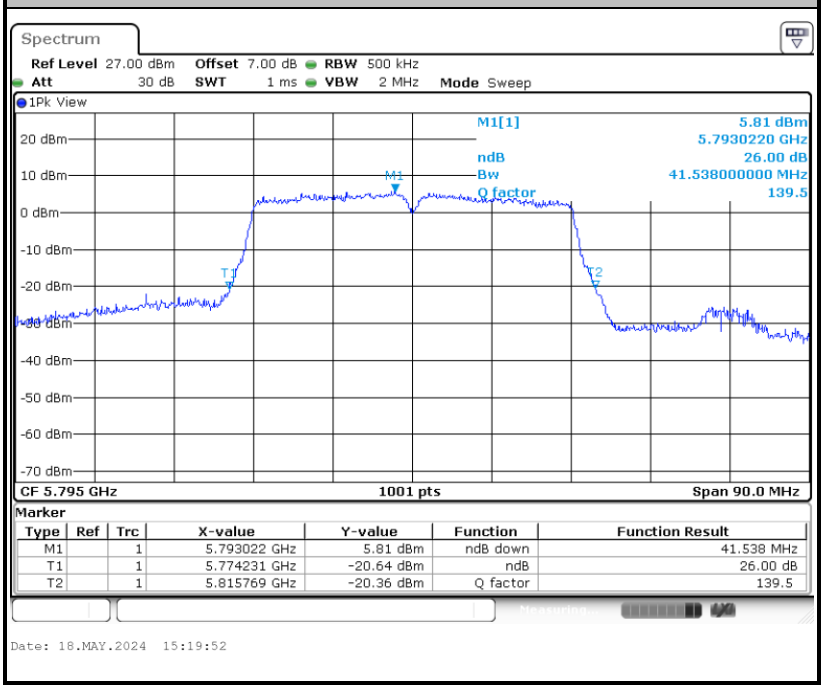
Maximum 26dB Bandwidth for 802.11a



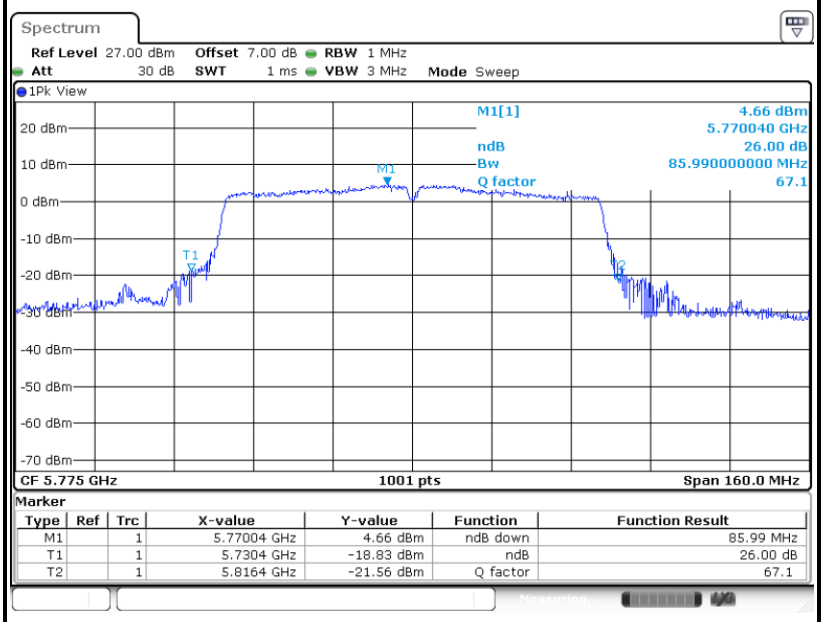
Maximum 26dB Bandwidth for 802.11n HT20



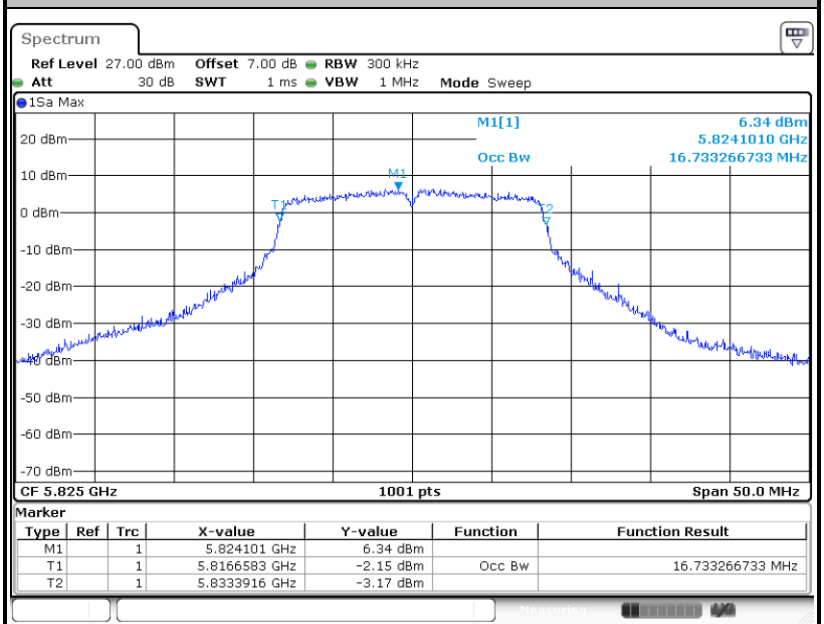
Maximum 26dB Bandwidth for 802.11n HT40



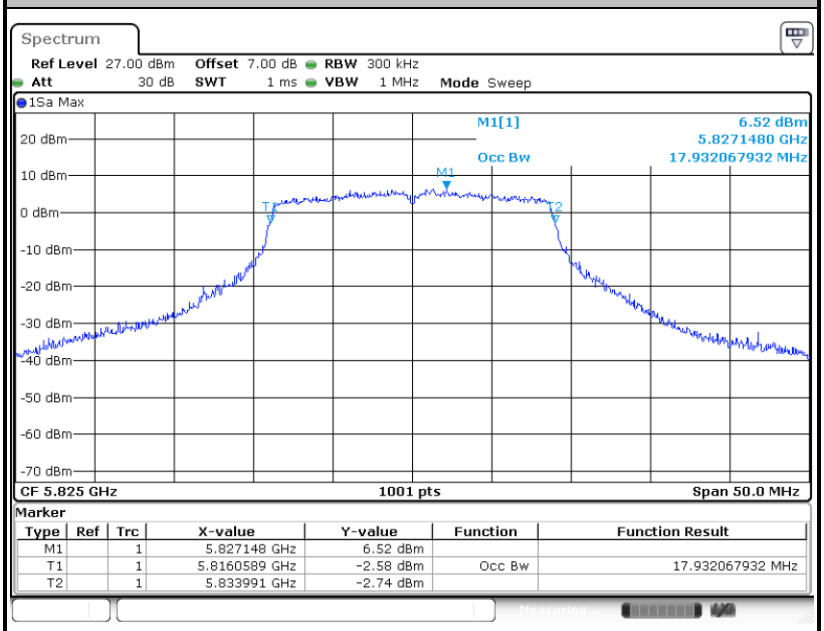
Maximum 26dB Bandwidth for 802.11ac VHT80



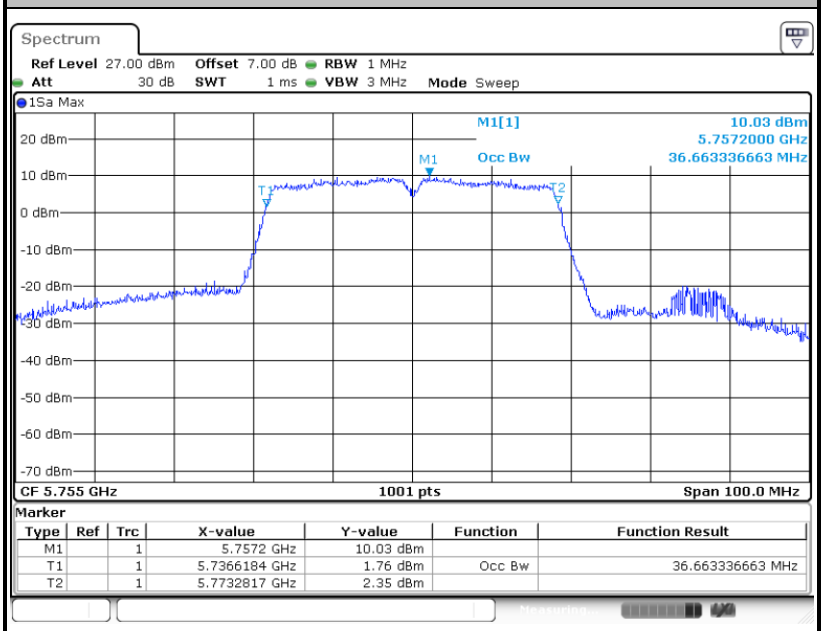
Maximum 99% Occupied Bandwidth for802.11a



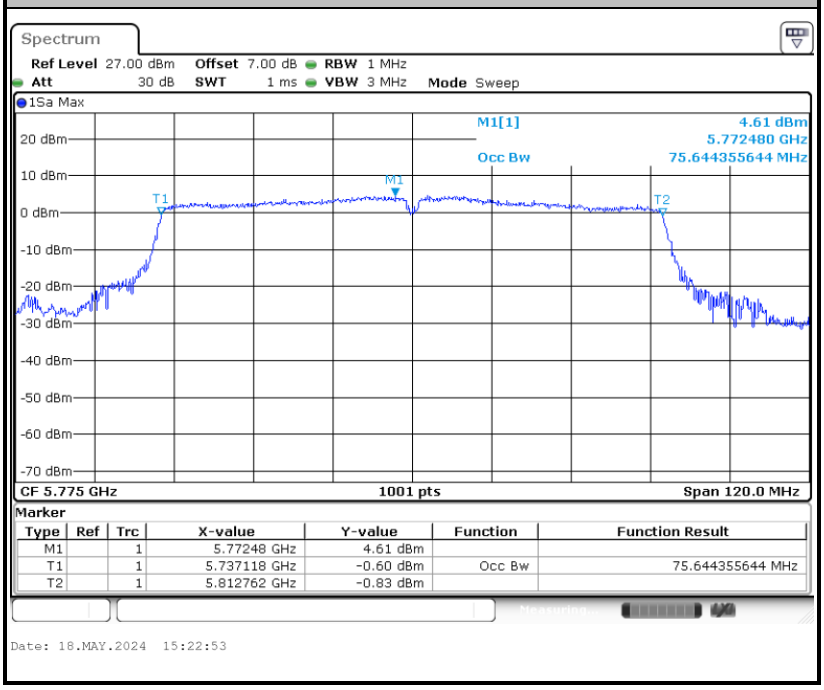
Maximum 99% Occupied Bandwidth 802.11n HT20



Maximum 99% Occupied Bandwidth 802.11n HT40



Maximum 99% Occupied Bandwidth 802.11ac VHT80



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

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.

3.2.2 Measuring Instruments

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

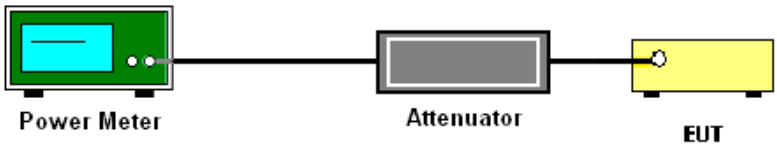
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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 v02r01.

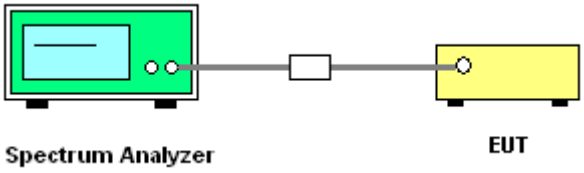
Section F) Maximum power spectral density.

 # Method SA-2 #

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 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.

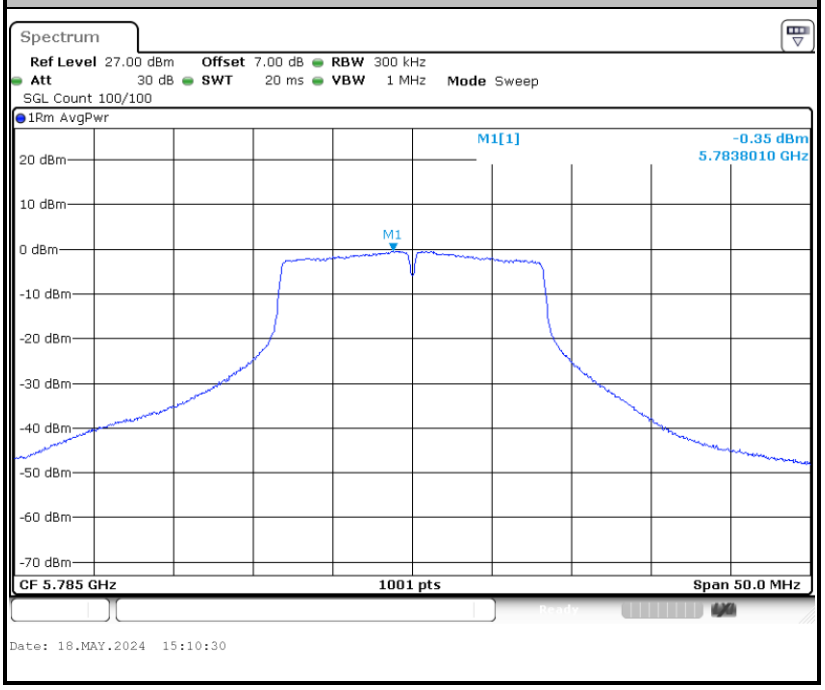
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density



Note: Average Power Density (dBm/500KHz) = Measured value (dBm/300KHz) + Duty Factor + RBW offset

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 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.

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

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

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

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

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

where

EIRP is the equivalent isotropically radiated power, in dBm

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

d_{Meas} is the measurement distance, in m

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

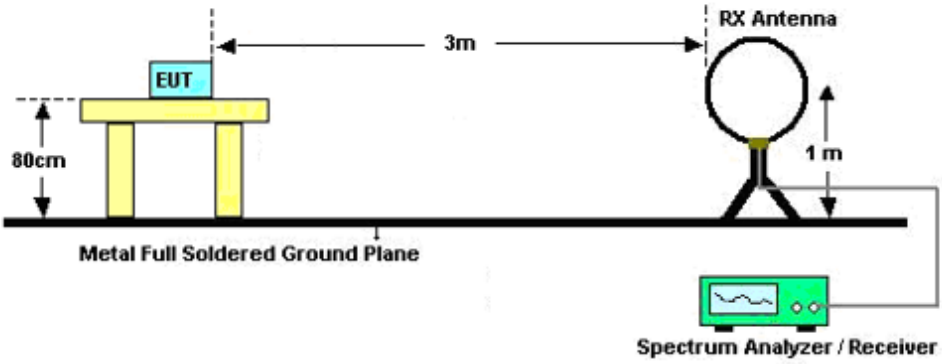
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

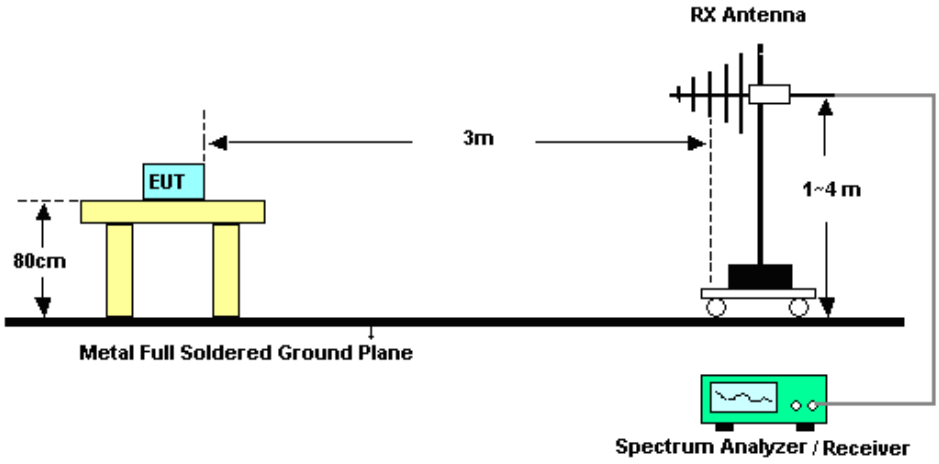
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

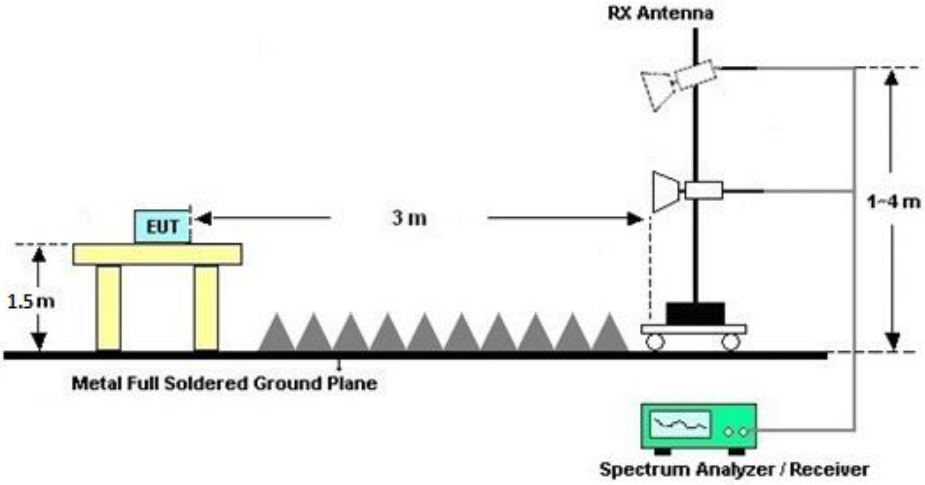
For radiated emissions below 30MHz



For radiated emissions 30MHz~1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated 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 Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

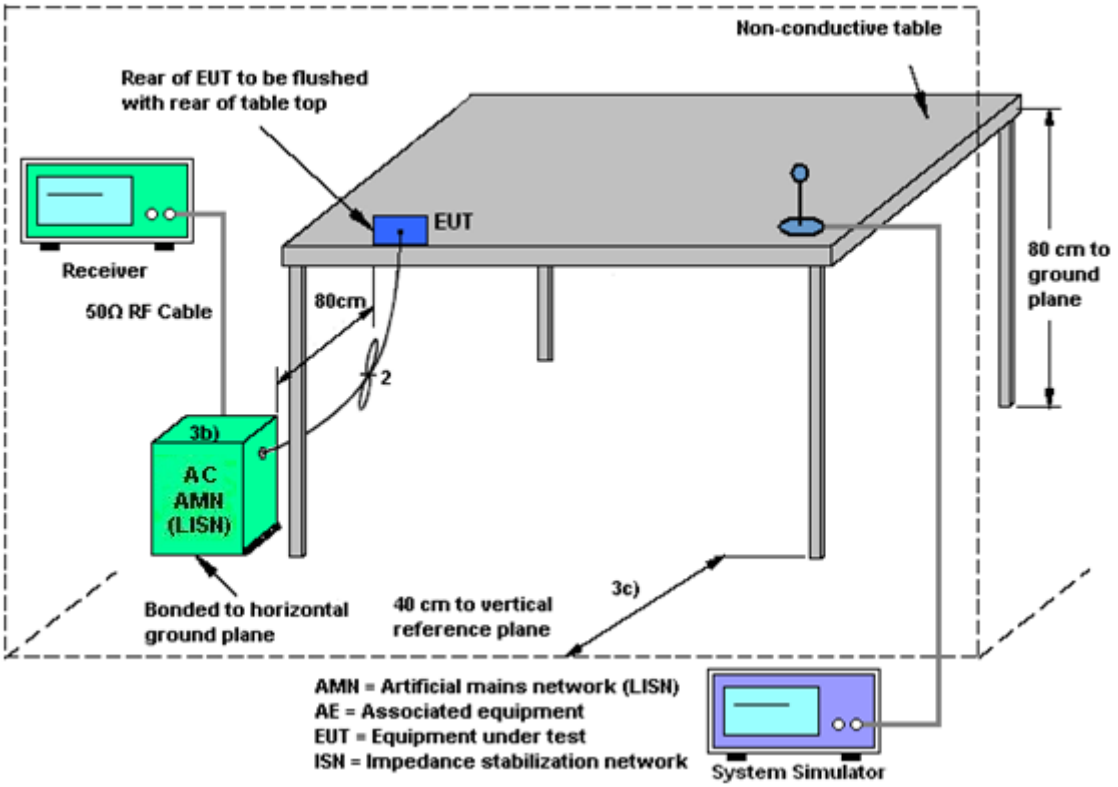
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	Jan. 05, 2024	Apr. 20, 2024 ~May 18, 2024	Jan. 04, 2025	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Apr. 20, 2024 ~May 18, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Apr. 20, 2024 ~May 18, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 04, 2024	May 09, 2024 ~Jun. 07, 2024	Jan. 03, 2025	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101932	10kHz~40GHz; Max 30dBm	Oct. 10, 2023	May 09, 2024 ~Jun. 07, 2024	Oct. 09, 2024	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Oct. 10, 2023	May 09, 2024 ~Jun. 07, 2024	Oct. 09, 2024	Radiation (03CH08-KS)
Bilog Antenna	TESEQ& VGT	CBL 61110	59915	30MHz-1GHz	Aug. 12, 2023	May 09, 2024 ~Jun. 07, 2024	Aug. 11, 2024	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Mar. 01, 2024	May 09, 2024 ~Jun. 07, 2024	Feb. 28, 2025	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2024	May 09, 2024 ~Jun. 07, 2024	Jan. 04, 2025	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	413741	9KHz-1GHz	Jan. 05, 2024	May 09, 2024 ~Jun. 07, 2024	Jan. 04, 2025	Radiation (03CH08-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz-18Ghz	Oct. 10, 2023	May 09, 2024 ~Jun. 07, 2024	Oct. 09, 2024	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz-18Ghz	Jan. 05, 2024	May 09, 2024 ~Jun. 07, 2024	Jan. 04, 2025	Radiation (03CH08-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 04, 2024	May 09, 2024 ~Jun. 07, 2024	Jan. 03, 2025	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	May 09, 2024 ~Jun. 07, 2024	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	May 09, 2024 ~Jun. 07, 2024	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	May 09, 2024 ~Jun. 07, 2024	NCR	Radiation (03CH08-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Jun. 02, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jun. 02, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Jun. 02, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jun. 02, 2024	Oct. 10, 2024	Conduction (CO01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	**±2.26 dB**
Occupied Channel Bandwidth	**±0.1%**
Conducted Power	**±0.46 dB**
Conducted Power Spectral Density	**±0.88 dB**
Frequency	**±0.4 Hz**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.84dB**

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.30dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.04dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.26dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.40dB**

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

Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jacob Zhang	Temperature:	21~25	°C
Test Date:	2024/5/17	Relative Humidity:	51~54	%

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

U-NII-3 single antenna									
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
11a	6Mbps	1	149	5745	16.733	22.228	15.098	0.5	Pass
11a	6Mbps	1	157	5785	16.733	22.927	15.450	0.5	Pass
11a	6Mbps	1	165	5825	16.733	21.528	15.300	0.5	Pass
HT20	MCS0	1	149	5745	17.882	23.826	16.000	0.5	Pass
HT20	MCS0	1	157	5785	17.882	22.977	15.100	0.5	Pass
HT20	MCS0	1	165	5825	17.932	22.827	15.100	0.5	Pass
HT40	MCS0	1	151	5755	36.663	41.269	35.100	0.5	Pass
HT40	MCS0	1	159	5795	36.563	41.538	35.280	0.5	Pass
VHT80	MCS0	1	155	5775	75.644	85.990	75.200	0.5	Pass

TEST RESULTS DATA
Average Power Table

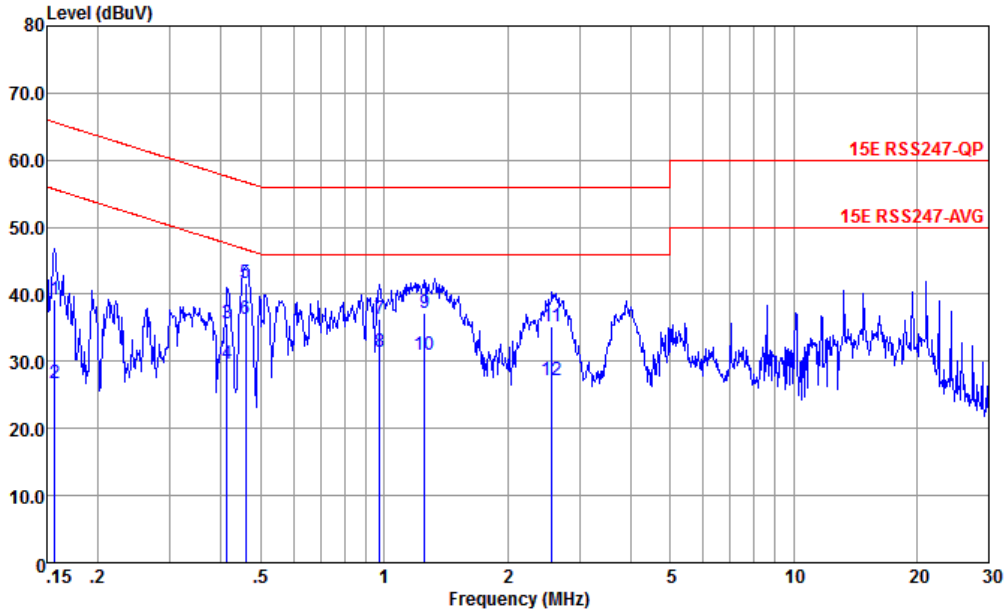
U-NII-3 single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Power Setting
11a	6Mbps	1	149	5745	0.08	16.79	30.00	-0.30	Pass	17
11a	6Mbps	1	157	5785	0.08	16.82	30.00	-0.30	Pass	17
11a	6Mbps	1	165	5825	0.08	16.21	30.00	-0.30	Pass	17
HT20	MCS0	1	149	5745	0.05	16.58	30.00	-0.30	Pass	17
HT20	MCS0	1	157	5785	0.05	16.71	30.00	-0.30	Pass	17
HT20	MCS0	1	165	5825	0.05	16.07	30.00	-0.30	Pass	17
HT40	MCS0	1	151	5755	0.17	16.46	30.00	-0.30	Pass	16
HT40	MCS0	1	159	5795	0.17	16.29	30.00	-0.30	Pass	16
VHT20	MCS0	1	149	5745	0.08	15.70	30.00	-0.30	Pass	16
VHT20	MCS0	1	157	5785	0.08	15.83	30.00	-0.30	Pass	16
VHT20	MCS0	1	165	5825	0.08	15.21	30.00	-0.30	Pass	16
VHT40	MCS0	1	151	5755	0.17	15.60	30.00	-0.30	Pass	15
VHT40	MCS0	1	159	5795	0.17	15.38	30.00	-0.30	Pass	15
VHT80	MCS0	1	155	5775	0.36	14.40	30.00	-0.30	Pass	14

TEST RESULTS DATA
Power Spectral Density

U-NII-3 single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	10log (500kHz /RBW) Factor (dB)	Average Power Density with Duty Factor (dBm/500kHz)	Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
11a	6Mbps	1	149	5745	0.08	2.22	1.85	30.00	-0.30	Pass
11a	6Mbps	1	157	5785	0.08	2.22	1.95	30.00	-0.30	Pass
11a	6Mbps	1	165	5825	0.08	2.22	1.22	30.00	-0.30	Pass
HT20	MCS0	1	149	5745	0.05	2.22	1.38	30.00	-0.30	Pass
HT20	MCS0	1	157	5785	0.05	2.22	1.43	30.00	-0.30	Pass
HT20	MCS0	1	165	5825	0.05	2.22	0.67	30.00	-0.30	Pass
HT40	MCS0	1	151	5755	0.17	2.22	-1.82	30.00	-0.30	Pass
HT40	MCS0	1	159	5795	0.17	2.22	-2.29	30.00	-0.30	Pass
VHT80	MCS0	1	155	5775	0.36	2.22	-6.50	30.00	-0.30	Pass

Appendix B. AC Conducted Emission Test Results

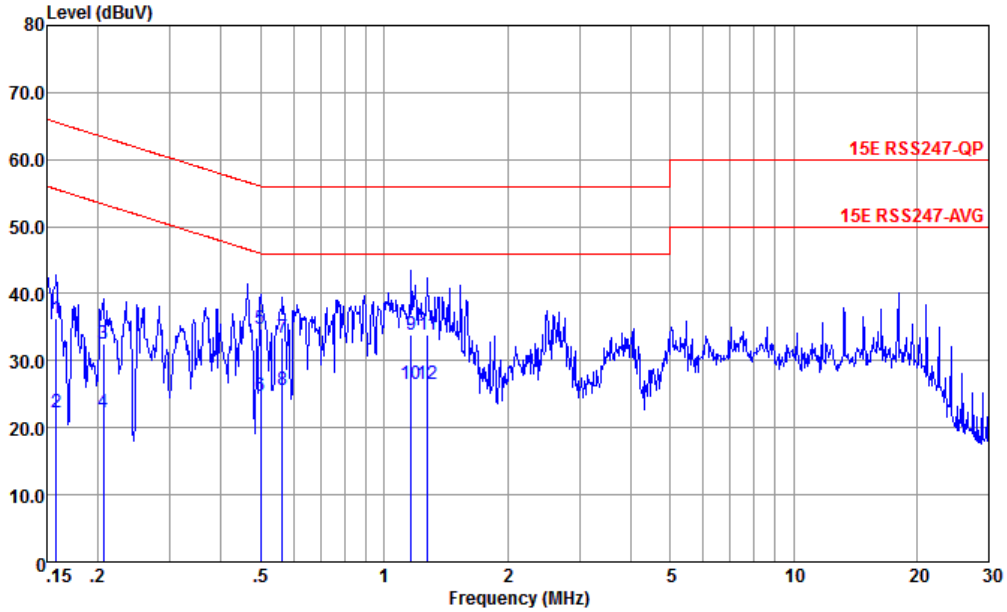
Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15E RSS247-QP LISN-060105-L 2023 LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.156	39.13	-26.52	65.65	28.66	0.05	10.42	QP
2		0.156	26.77	-28.88	55.65	16.30	0.05	10.42	Average
3		0.413	35.57	-22.02	57.59	25.30	0.00	10.27	QP
4		0.413	29.57	-18.02	47.59	19.30	0.00	10.27	Average
5		0.459	41.62	-15.09	56.71	31.40	-0.02	10.24	QP
6	*	0.459	36.42	-10.29	46.71	26.20	-0.02	10.24	Average
7		0.974	36.30	-19.70	56.00	26.31	-0.10	10.09	QP
8		0.974	31.50	-14.50	46.00	21.51	-0.10	10.09	Average
9		1.255	37.17	-18.83	56.00	27.19	-0.11	10.09	QP
10		1.255	31.07	-14.93	46.00	21.09	-0.11	10.09	Average
11		2.567	35.27	-20.73	56.00	25.30	-0.10	10.07	QP
12		2.567	27.27	-18.73	46.00	17.30	-0.10	10.07	Average

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



Site : CO01-KS
Condition : 15E RSS247-QP LISN-060105-N 2023 NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.158	36.36	-29.20	65.56	25.90	0.04	10.42	QP
2	0.158	22.36	-33.20	55.56	11.90	0.04	10.42	Average
3	0.206	32.55	-30.81	63.36	22.11	0.04	10.40	QP
4	0.206	22.35	-31.01	53.36	11.91	0.04	10.40	Average
5	0.499	34.75	-21.26	56.01	24.60	-0.07	10.22	QP
6	0.499	24.75	-21.26	46.01	14.60	-0.07	10.22	Average
7	0.564	33.42	-22.58	56.00	23.30	-0.07	10.19	QP
8	0.564	25.72	-20.28	46.00	15.60	-0.07	10.19	Average
9	1.166	33.78	-22.22	56.00	23.79	-0.10	10.09	QP
10 *	1.166	26.58	-19.42	46.00	16.59	-0.10	10.09	Average
11	1.276	33.88	-22.12	56.00	23.90	-0.11	10.09	QP
12	1.276	26.58	-19.42	46.00	16.60	-0.11	10.09	Average

Note:

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

Appendix C. Radiated Spurious Emission Test Data

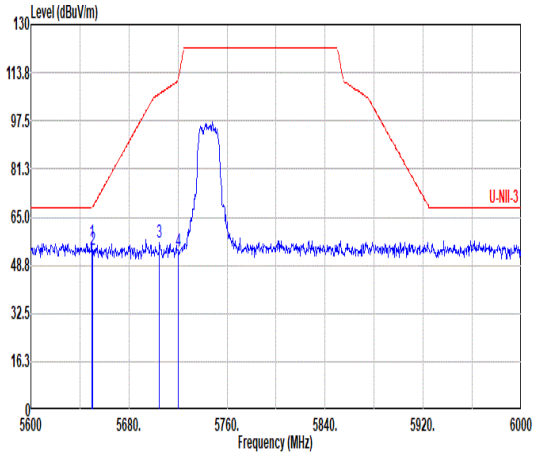
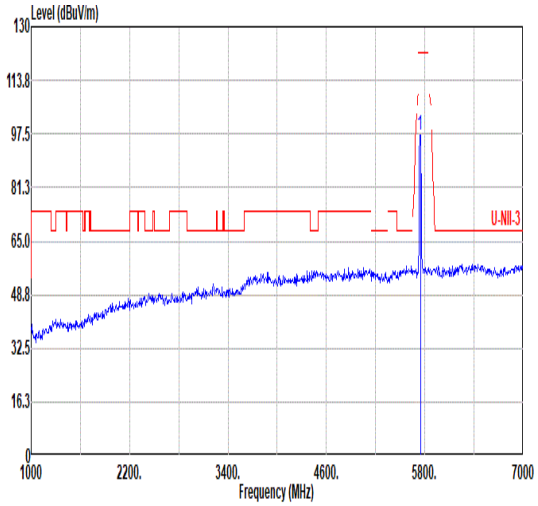
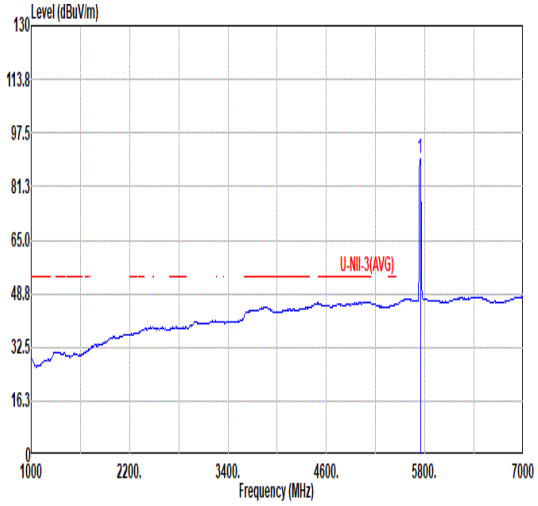
Test Engineer :	Koi Ji	Relative Humidity :	41 ~ 42 ％
		Temperature :	22 ~ 23 ℃

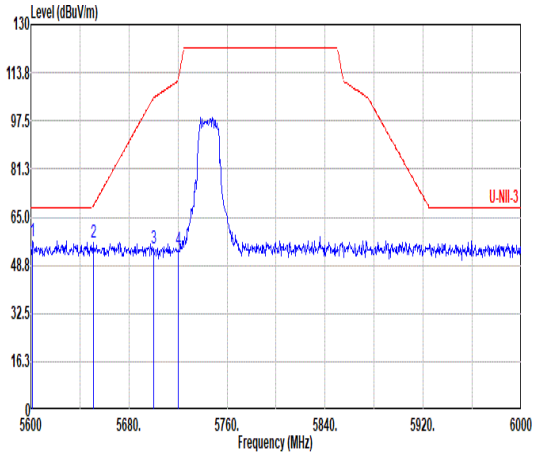
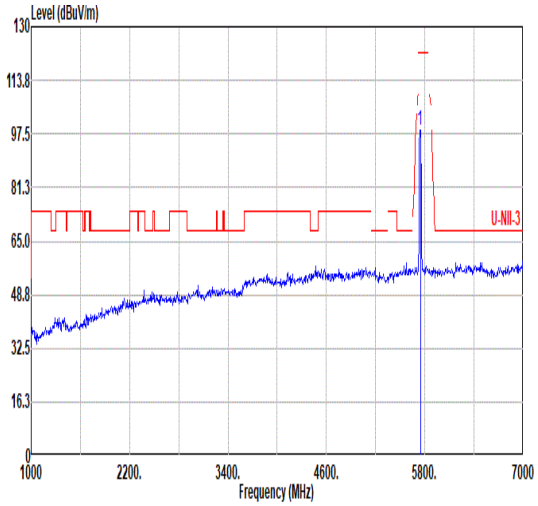
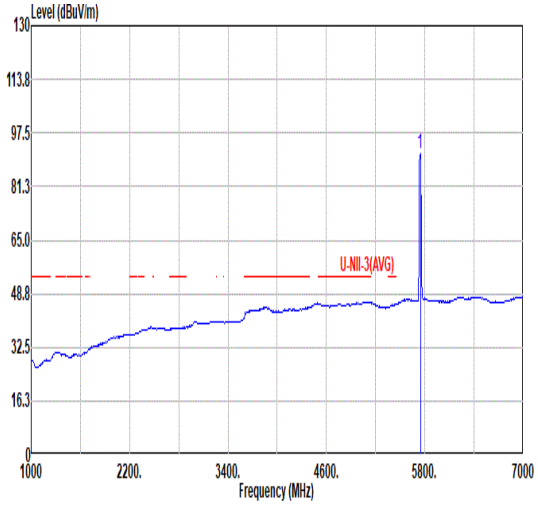
Radiated Spurious Emission Test Modes

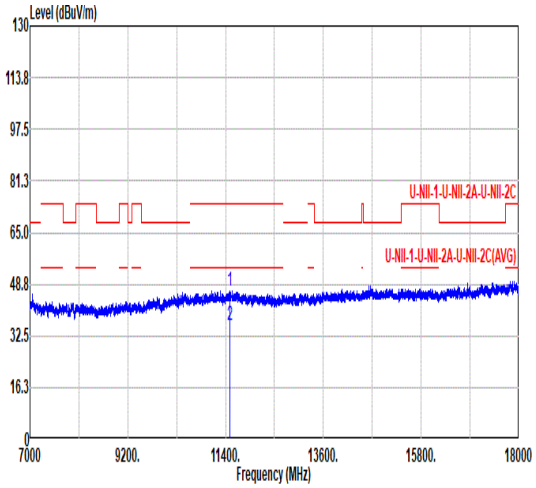
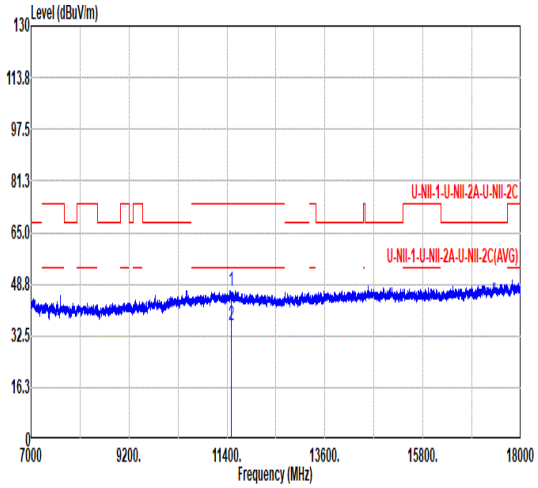
Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	U-NII-3	5.725-5.85	802.11a	149	5745	6Mbps	-
Mode 2	U-NII-3	5.725-5.85	802.11a	157	5785	6Mbps	-
Mode 3	U-NII-3	5.725-5.85	802.11a	165	5825	6Mbps	-
Mode 4	U-NII-3	5.725-5.85	802.11n HT20	149	5745	MCS0	-
Mode 5	U-NII-3	5.725-5.85	802.11n HT20	157	5785	MCS0	-
Mode 6	U-NII-3	5.725-5.85	802.11n HT20	165	5825	MCS0	-
Mode 7	U-NII-3	5.725-5.85	802.11n HT40	151	5755	MCS0	-
Mode 8	U-NII-3	5.725-5.85	802.11n HT40	159	5795	MCS0	-
Mode 9	U-NII-3	5.725-5.85	802.11ac VHT80	155	5775	MCS0	-

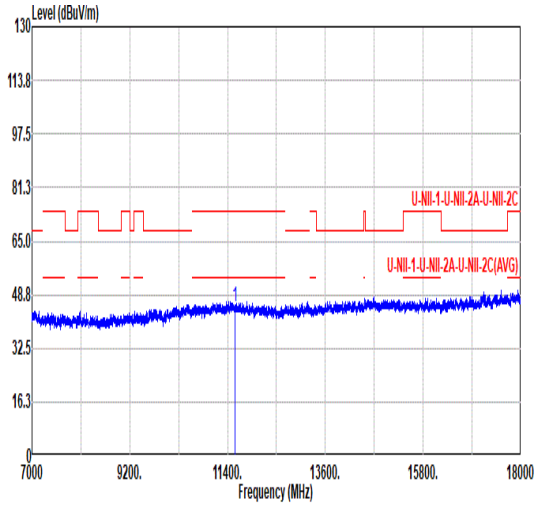
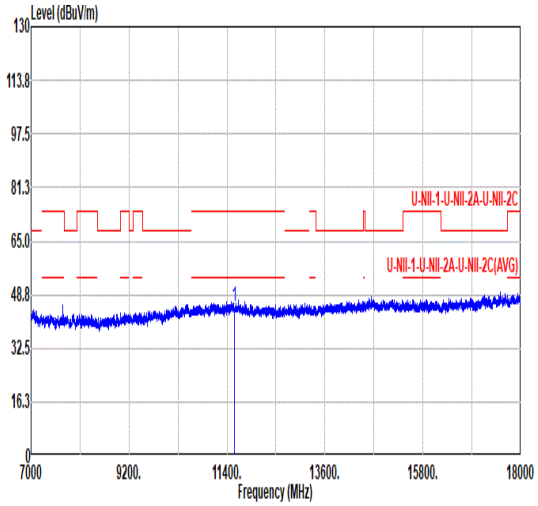
Summary of each worse mode

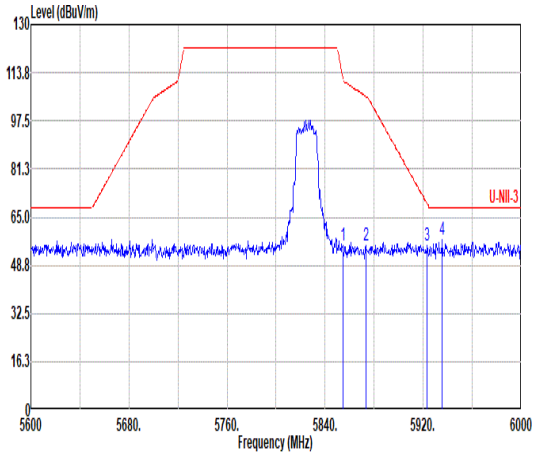
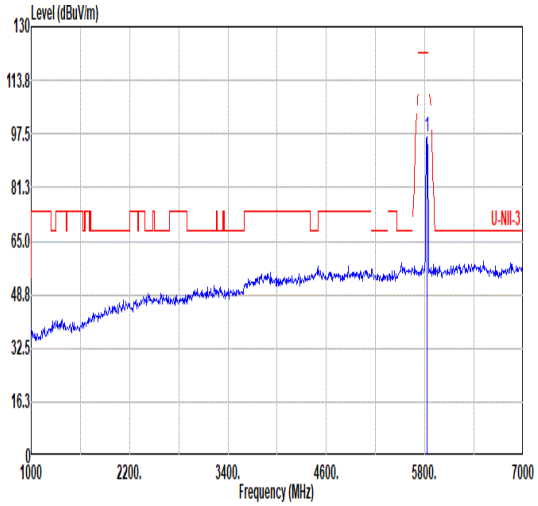
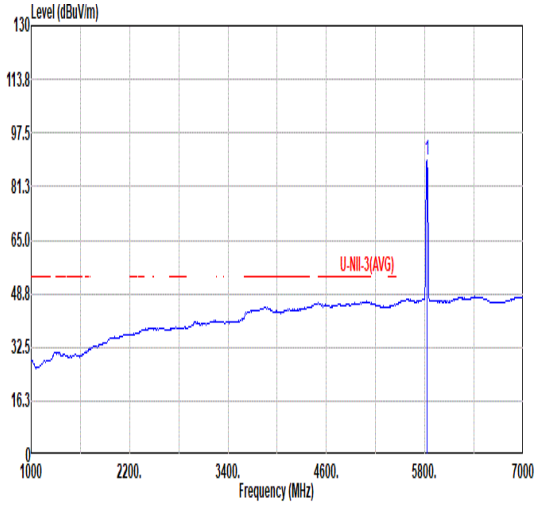
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	149	5601.60	56.96	68.20	-11.24	V	PEAK	Pass	Band Edge
1	802.11a	149	11490.00	36.05	54.00	-17.95	H	AVERAGE	Pass	Harmonic
2	802.11a	157	-	-	-	-	-	-	-	Band Edge
2	802.11a	157	11570.00	45.18	74.00	-28.82	V	PEAK	Pass	Harmonic
3	802.11a	165	5935.60	57.44	68.20	-10.76	H	PEAK	Pass	Band Edge
3	802.11a	165	11650.00	35.97	54.00	-18.03	H	AVERAGE	Pass	Harmonic
4	802.11n HT20	149	5604.40	58.28	68.20	-9.92	V	PEAK	Pass	Band Edge
4	802.11n HT20	149	11490.00	36.15	54.00	-17.85	H	AVERAGE	Pass	Harmonic
5	802.11n HT20	157	-	-	-	-	-	-	-	Band Edge
5	802.11n HT20	157	11570.00	35.42	54.00	-18.58	H	AVERAGE	Pass	Harmonic
6	802.11n HT20	165	5999.60	57.77	68.20	-10.43	V	PEAK	Pass	Band Edge
6	802.11n HT20	165	11650.00	35.88	54.00	-18.12	H	AVERAGE	Pass	Harmonic
7	802.11n HT40	151	5942.98	58.35	68.20	-9.85	V	PEAK	Pass	Band Edge
7	802.11n HT40	151	11510.00	36.62	54.00	-17.38	H	AVERAGE	Pass	Harmonic
8	802.11n HT40	159	5986.40	57.73	68.20	-10.47	V	PEAK	Pass	Band Edge
8	802.11n HT40	159	11590.00	45.01	74.00	-28.99	V	PEAK	Pass	Harmonic
9	802.11ac VHT80	155	5926.40	56.92	68.20	-11.28	H	PEAK	Pass	Band Edge
9	802.11ac VHT80	155	11550.00	45.30	74.00	-28.70	V	PEAK	Pass	Harmonic

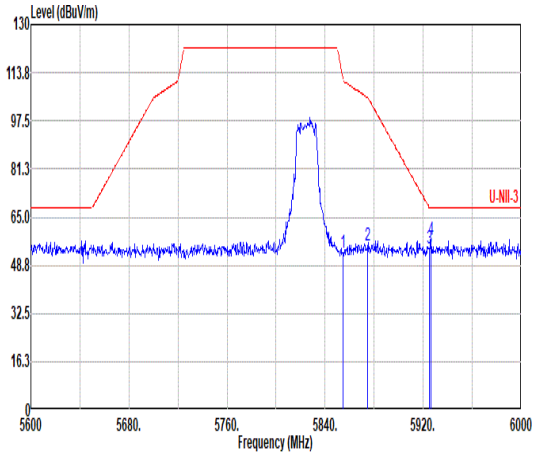
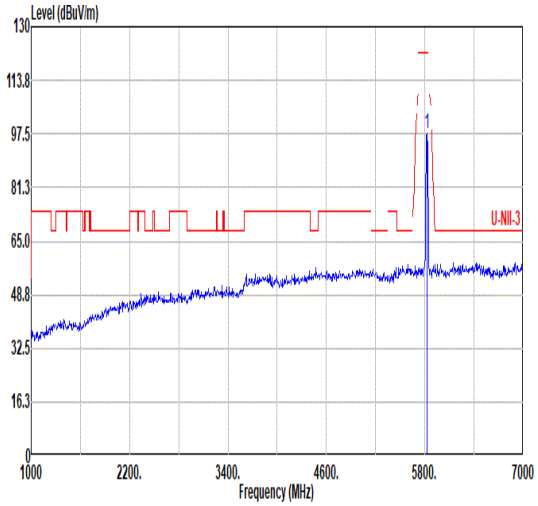
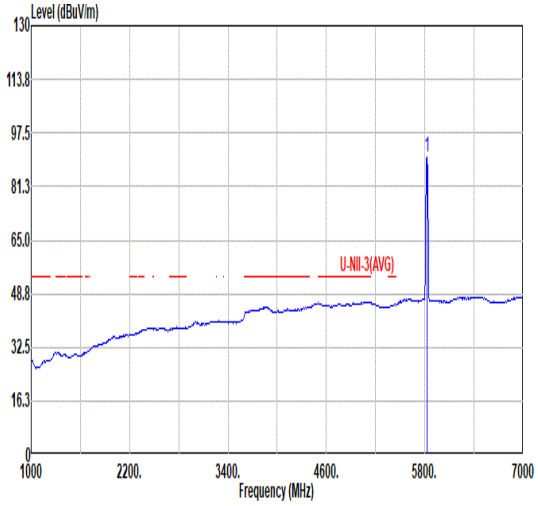
Mode	1	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5649.60 56.18 68.20 -12.02 38.01 34.50 13.01 29.34 0.00 100 104 PEAK 2 5650.40 53.76 68.50 -14.74 35.59 34.50 13.01 29.34 0.00 100 104 PEAK 3 5704.80 56.28 106.65 -50.37 38.16 34.61 13.13 29.62 0.00 100 104 PEAK 4 5720.00 53.42 110.90 -57.48 35.21 34.64 13.26 29.69 0.00 100 104 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 97.11 ------ ------ 78.79 34.68 13.43 29.79 0.00 100 104 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 89.57 ------ ------ 71.21 34.69 13.49 29.82 0.00 100 104 AVERAGE

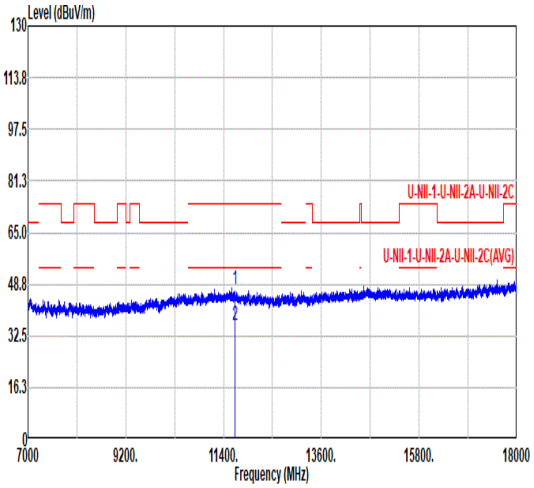
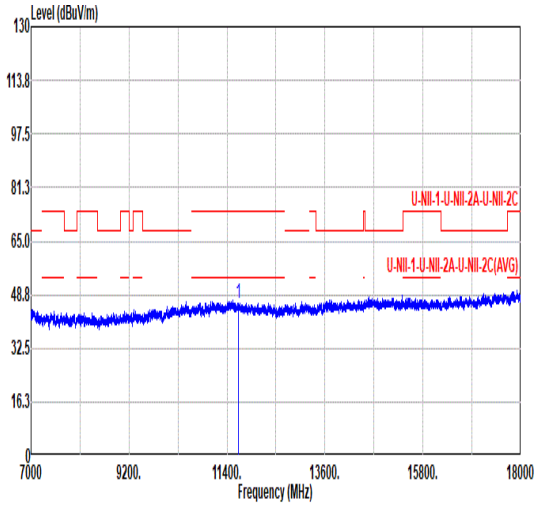
Mode	1	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5601.60 56.96 68.20 -11.24 38.66 34.50 13.15 29.35 0.00 230 360 PEAK 2 5650.80 56.63 68.80 -12.17 38.46 34.50 13.01 29.34 0.00 230 360 PEAK 3 5700.40 54.50 105.41 -50.91 36.40 34.60 13.09 29.59 0.00 230 360 PEAK 4 5720.00 54.14 110.90 -56.76 35.93 34.64 13.26 29.69 0.00 230 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 98.75 ------ ------ 80.43 34.68 13.43 29.79 0.00 230 360 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 91.31 ------ ------ 72.95 34.69 13.49 29.82 0.00 230 360 AVERAGE

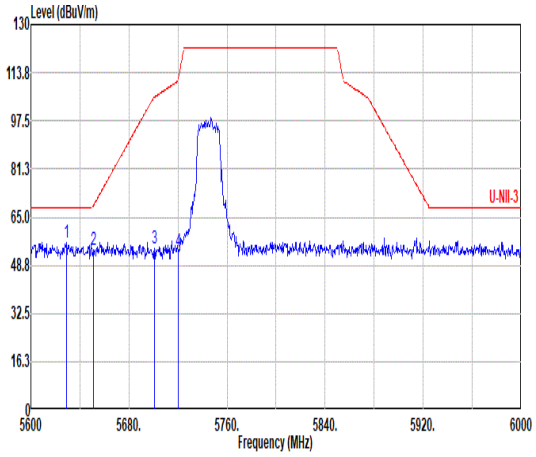
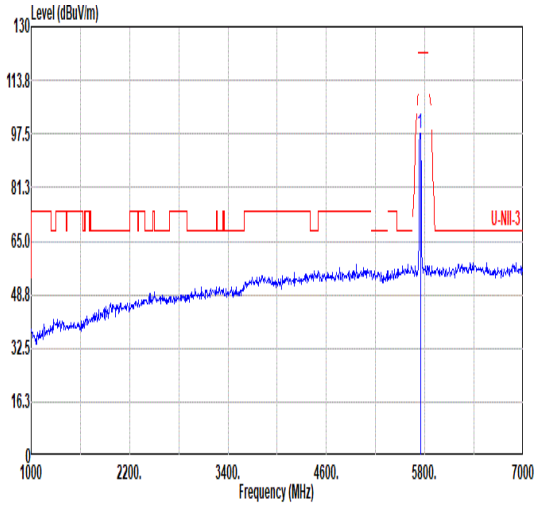
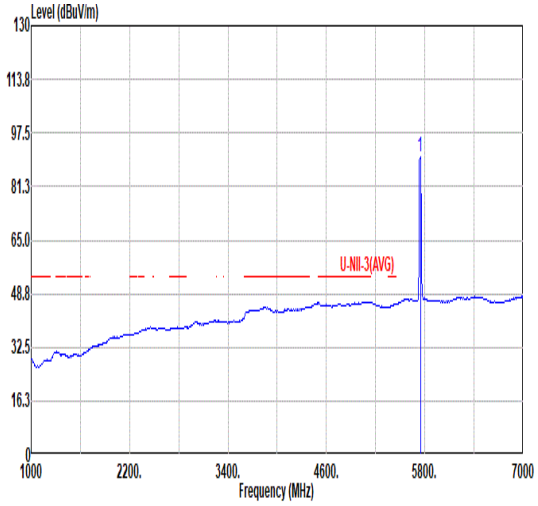
Mode	1	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11490.00 46.40 74.00 -27.60 53.25 38.30 18.74 63.89 0.00 300 0 PEAK 2 11490.00 36.05 54.00 -17.95 42.92 38.30 18.73 63.90 0.00 300 0 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11490.00 46.59 74.00 -27.41 53.44 38.30 18.74 63.89 0.00 100 0 PEAK 2 11490.00 36.01 54.00 -17.99 42.86 38.30 18.74 63.89 0.00 100 0 AVERAGE

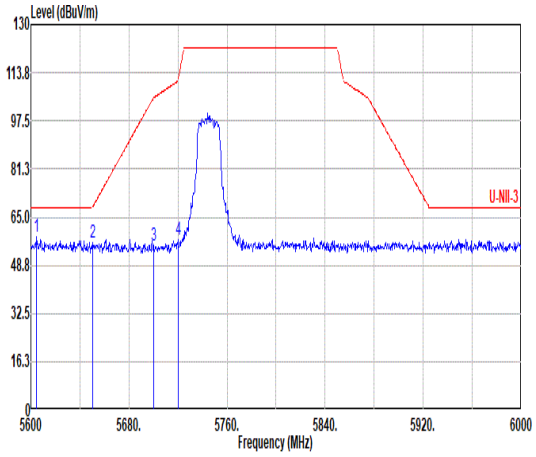
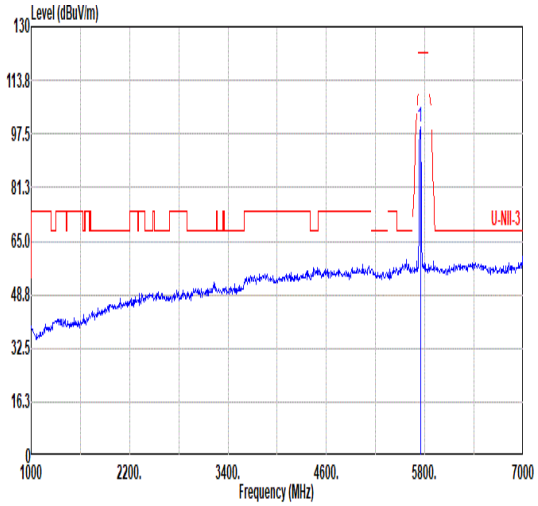
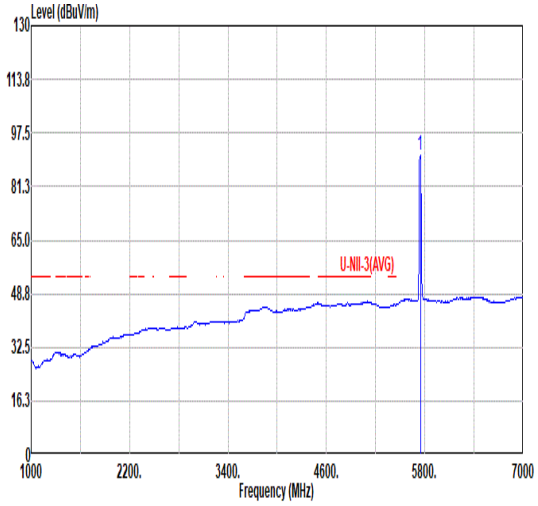
Mode	2	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 44.90 74.00 -29.10 51.89 38.44 18.63 64.06 0.00 -- -- PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 45.18 74.00 -28.82 52.17 38.44 18.63 64.06 0.00 -- -- PEAK

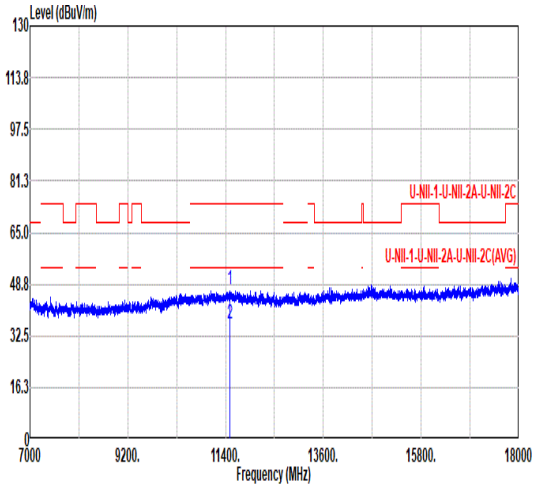
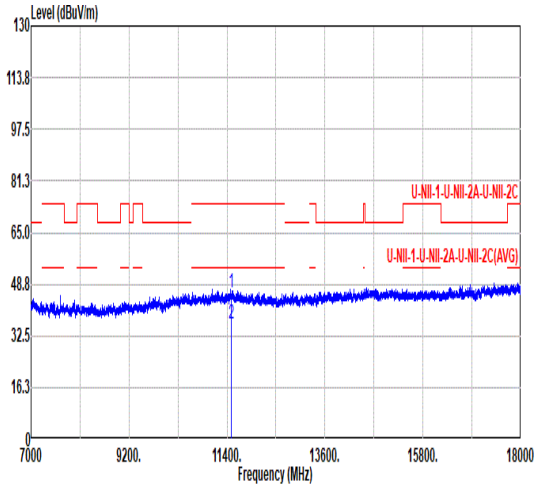
Mode	3	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.40 55.45 112.27 -56.82 37.02 34.92 13.88 30.37 0.00 136 90 PEAK 2 5873.20 55.49 105.80 -50.31 37.03 34.99 13.85 30.38 0.00 136 90 PEAK 3 5923.20 55.53 69.53 -14.00 37.05 35.15 13.73 30.40 0.00 136 90 PEAK 4 5935.60 57.44 68.20 -10.76 38.99 35.17 13.69 30.41 0.00 136 90 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 96.79 ------ ------ 78.02 34.85 14.14 30.22 0.00 136 90 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 89.37 ------ ------ 70.60 34.85 14.14 30.22 0.00 136 90 AVERAGE

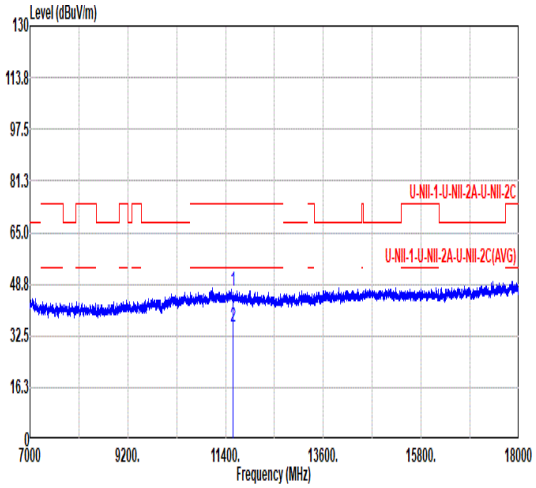
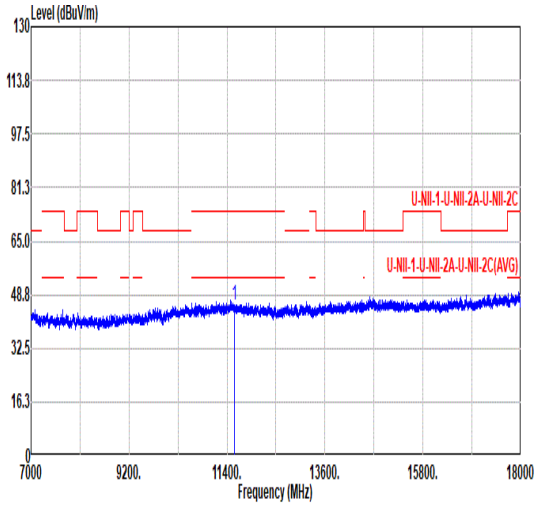
Mode	3	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.80 52.78 111.36 -58.58 34.35 34.92 13.88 30.37 0.00 223 360 PEAK 2 5874.40 55.39 105.47 -50.08 36.92 35.00 13.85 30.38 0.00 223 360 PEAK 3 5924.80 54.50 68.35 -13.85 36.03 35.15 13.73 30.41 0.00 223 360 PEAK 4 5926.40 57.35 68.20 -10.85 38.89 35.15 13.72 30.41 0.00 223 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 97.70 ------ ------ 78.93 34.85 14.14 30.22 0.00 223 360 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 90.34 ------ ------ 71.57 34.85 14.14 30.22 0.00 223 360 AVERAGE

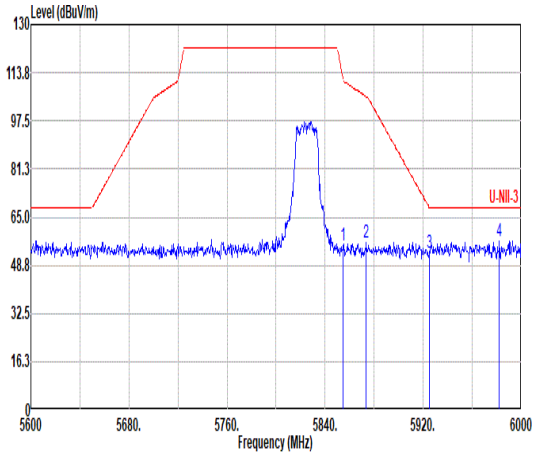
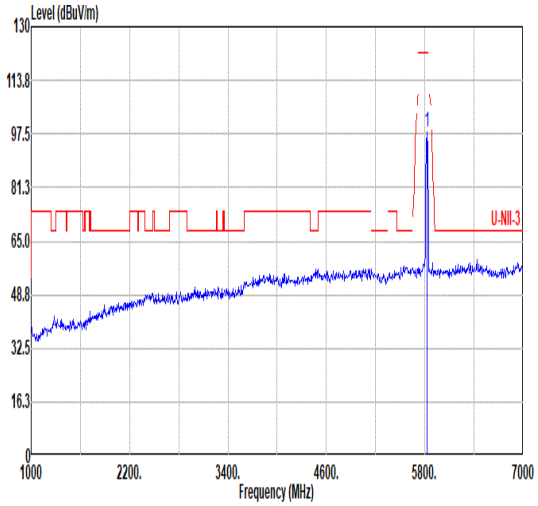
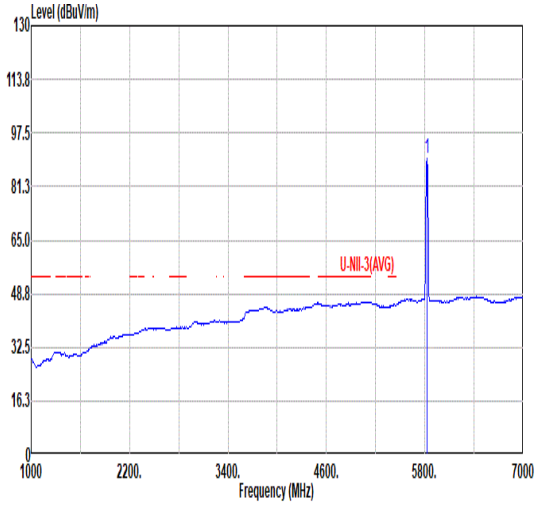
Mode	3	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 47.30 74.00 -26.70 54.40 38.50 18.67 64.27 0.00 0 0 PEAK 2 11650.00 35.97 54.00 -18.03 43.07 38.50 18.68 64.28 0.00 0 0 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 45.95 74.00 -28.05 53.05 38.50 18.67 64.27 0.00 -- -- PEAK

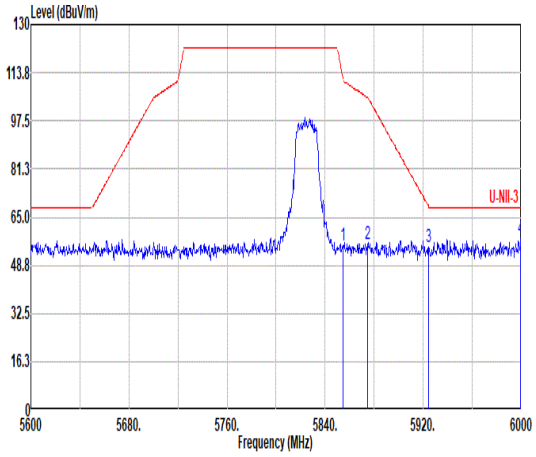
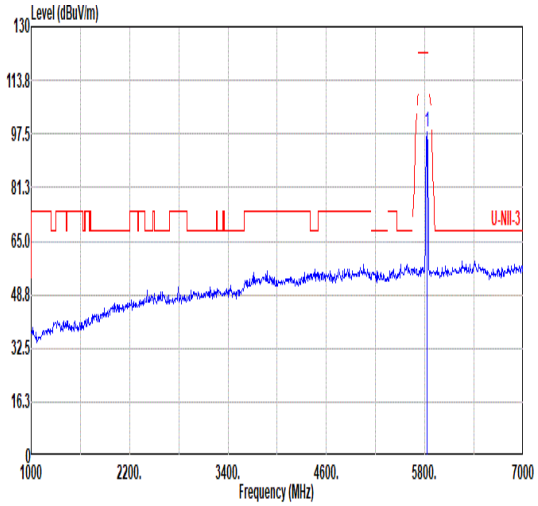
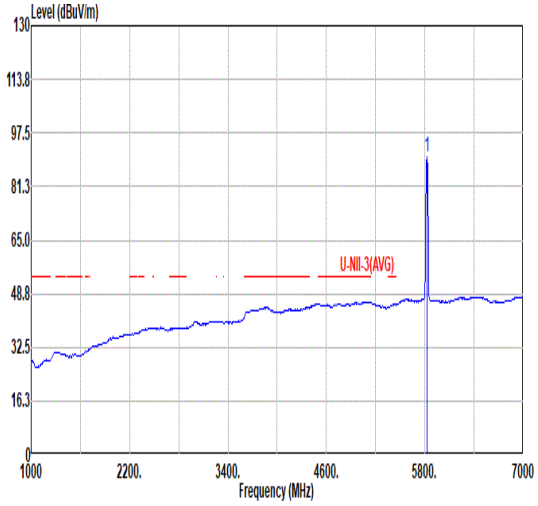
Mode	4	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5628.80 56.60 68.20 -11.60 38.34 34.50 13.07 29.31 0.00 151 103 PEAK 2 5650.80 53.90 68.80 -14.90 35.73 34.50 13.01 29.34 0.00 151 103 PEAK 3 5700.80 54.40 105.52 -51.12 36.30 34.60 13.10 29.60 0.00 151 103 PEAK 4 5720.00 53.58 110.90 -57.32 35.37 34.64 13.26 29.69 0.00 151 103 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 97.82 ------ ------ 79.50 34.68 13.43 29.79 0.00 151 103 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 90.33 ------ ------ 71.97 34.69 13.49 29.82 0.00 151 103 AVERAGE

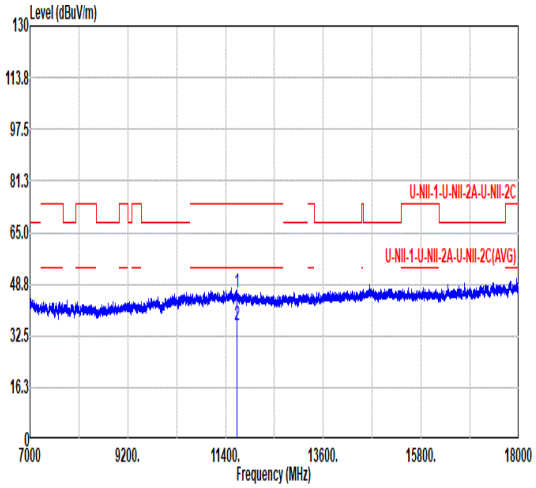
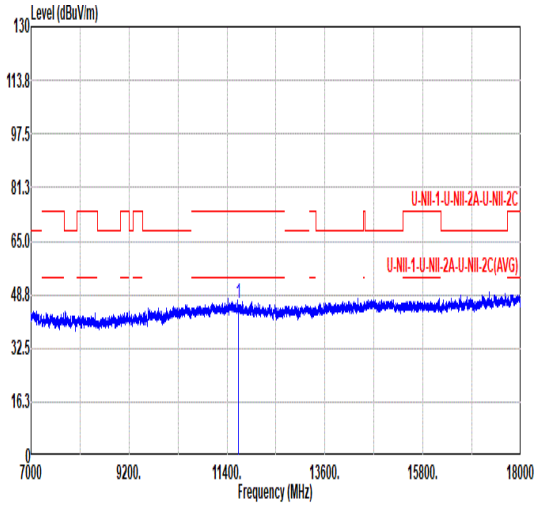
Mode	4	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5604.40 58.28 68.20 -9.92 39.99 34.50 13.14 29.35 0.00 253 107 PEAK 2 5650.40 56.40 68.50 -12.10 38.23 34.50 13.01 29.34 0.00 253 107 PEAK 3 5700.40 55.66 105.41 -49.75 37.56 34.60 13.09 29.59 0.00 253 107 PEAK 4 5720.00 57.49 110.90 -53.41 39.28 34.64 13.26 29.69 0.00 253 107 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 99.36 ------ ------ 81.01 34.69 13.48 29.82 0.00 253 107 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 90.81 ------ ------ 72.46 34.69 13.48 29.82 0.00 253 107 AVERAGE

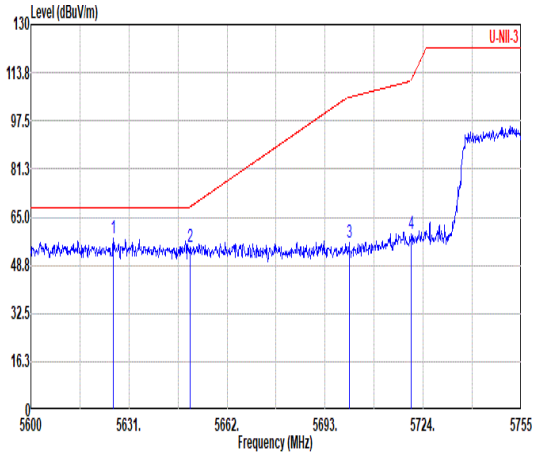
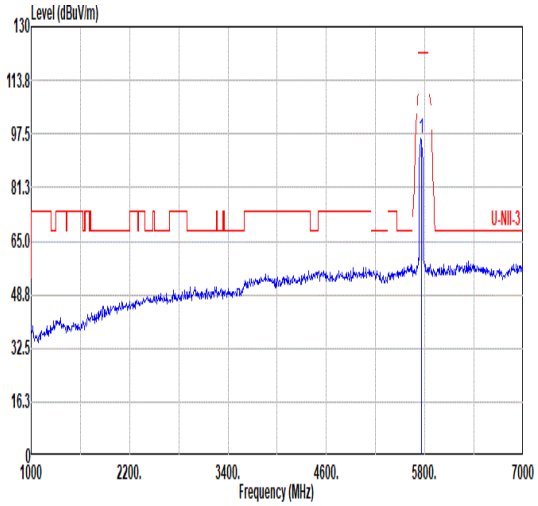
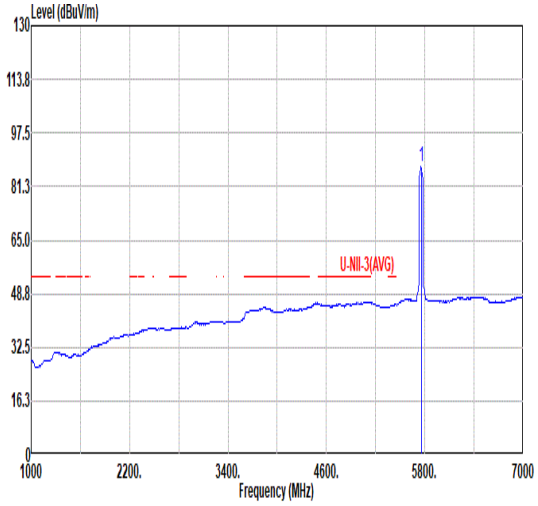
Mode	4	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11490.00 46.85 74.00 -27.15 53.70 38.30 18.74 63.89 0.00 100 360 PEAK 2 11490.00 36.15 54.00 -17.85 43.02 38.30 18.73 63.90 0.00 100 360 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11490.00 46.32 74.00 -27.68 53.17 38.30 18.74 63.89 0.00 300 360 PEAK 2 11490.00 36.09 54.00 -17.91 42.96 38.30 18.73 63.90 0.00 300 360 AVERAGE

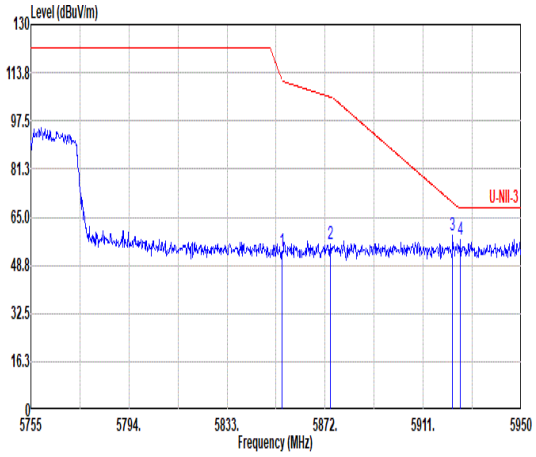
Mode	5	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 46.50 74.00 -27.50 53.49 38.44 18.63 64.06 0.00 100 360 PEAK 2 11570.00 35.42 54.00 -18.58 42.40 38.43 18.64 64.05 0.00 100 360 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 45.61 74.00 -28.39 52.60 38.44 18.63 64.06 0.00 -- -- PEAK

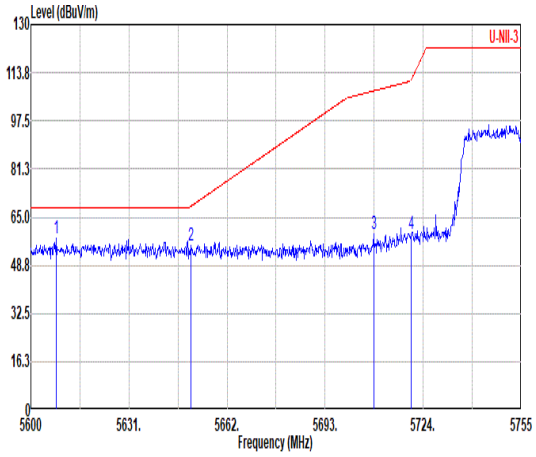
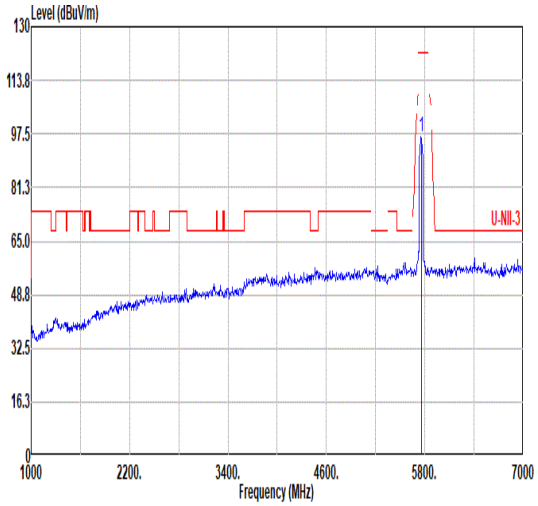
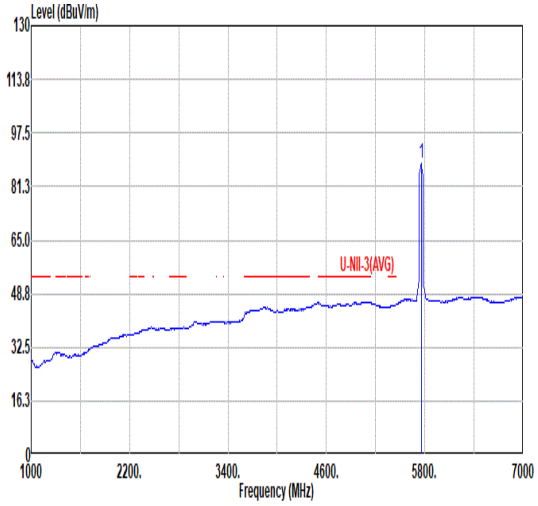
Mode	6	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.80 55.28 111.36 -56.08 36.85 34.92 13.88 30.37 0.00 149 90 PEAK 2 5873.60 56.46 105.69 -49.23 38.00 34.99 13.85 30.38 0.00 149 90 PEAK 3 5924.80 52.84 68.35 -15.51 34.37 35.15 13.73 30.41 0.00 149 90 PEAK 4 5982.00 56.98 68.20 -11.22 38.56 35.26 13.59 30.43 0.00 149 90 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 98.00 ------ ------ 79.31 34.86 14.08 30.25 0.00 149 90 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 89.66 ------ ------ 70.89 34.85 14.14 30.22 0.00 149 90 AVERAGE

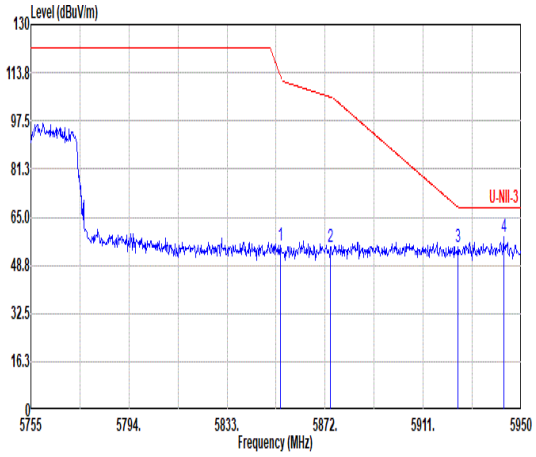
Mode	6	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.80 55.19 111.36 -56.17 36.76 34.92 13.88 30.37 0.00 223 360 PEAK 2 5874.40 55.87 105.47 -49.60 37.40 35.00 13.85 30.38 0.00 223 360 PEAK 3 5924.40 54.88 68.64 -13.76 36.40 35.15 13.73 30.40 0.00 223 360 PEAK 4 5999.60 57.77 68.20 -10.43 39.36 35.30 13.55 30.44 0.00 223 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 98.22 ------ ------ 79.45 34.85 14.14 30.22 0.00 223 360 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 90.26 ------ ------ 71.49 34.85 14.14 30.22 0.00 223 360 AVERAGE

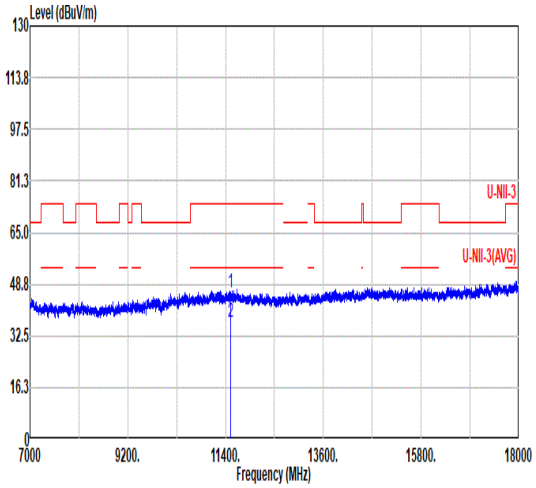
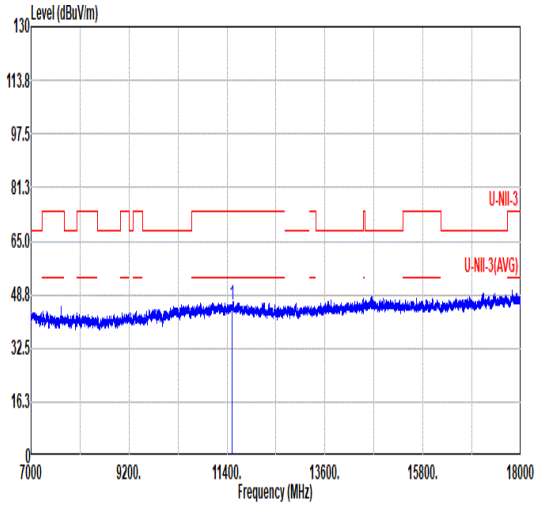
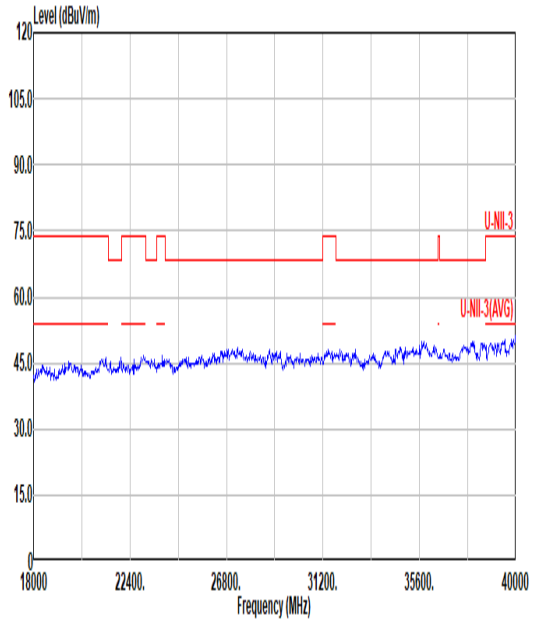
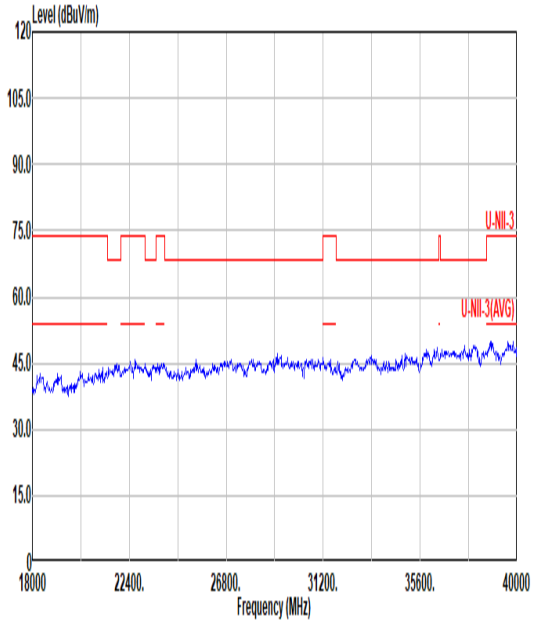
Mode	6	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 46.10 74.00 -27.90 53.20 38.50 18.67 64.27 0.00 100 360 PEAK 2 11650.00 35.88 54.00 -18.12 42.98 38.50 18.67 64.27 0.00 100 360 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 45.91 74.00 -28.09 53.01 38.50 18.67 64.27 0.00 -- -- PEAK

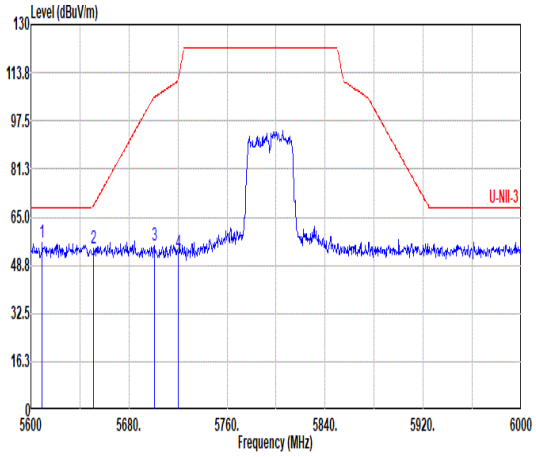
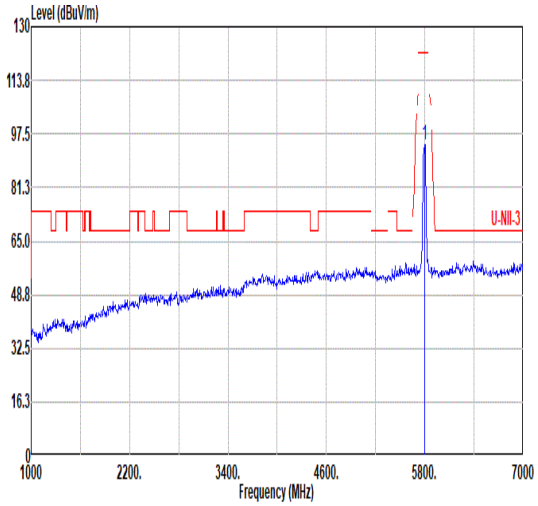
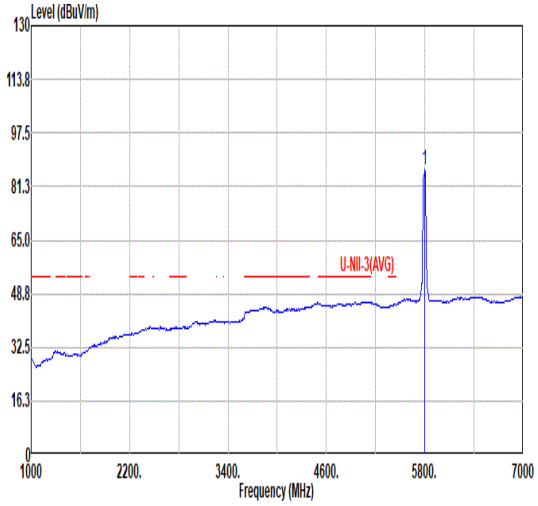
Mode	7	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5626.04 57.70 68.20 -10.50 39.43 34.50 13.08 29.31 0.00 141 93 PEAK 2 5650.22 54.76 68.36 -13.60 36.59 34.50 13.01 29.34 0.00 141 93 PEAK 3 5700.60 56.33 105.47 -49.14 38.22 34.60 13.10 29.59 0.00 141 93 PEAK 4 5720.28 59.24 111.54 -52.30 41.03 34.64 13.26 29.69 0.00 141 93 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 96.02 ------ ------ 77.62 34.70 13.55 29.85 0.00 141 93 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 87.25 ------ ------ 68.85 34.70 13.55 29.85 0.00 141 93 AVERAGE

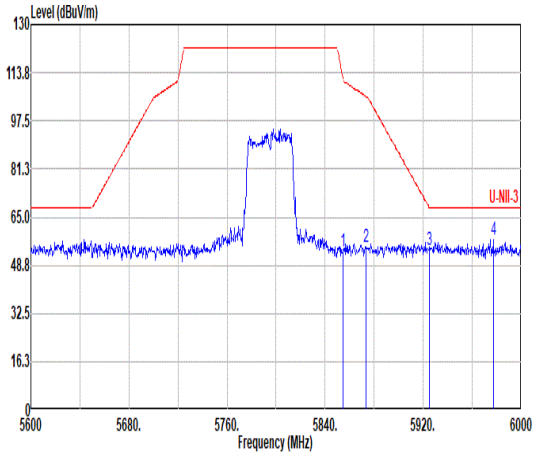
Mode	7	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.84 53.57 111.26 -57.69 35.14 34.92 13.88 30.37 0.00 141 93 PEAK 2 5873.95 56.15 105.59 -49.44 37.68 35.00 13.85 30.38 0.00 141 93 PEAK 3 5922.70 58.77 69.90 -11.13 40.29 35.15 13.73 30.40 0.00 141 93 PEAK 4 5925.82 57.33 68.20 -10.87 38.87 35.15 13.72 30.41 0.00 141 93 PEAK	Blank

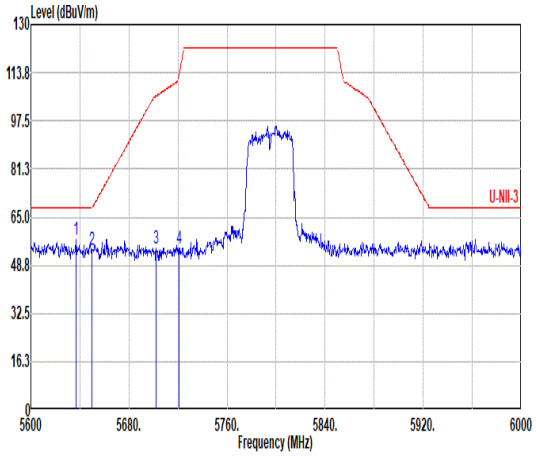
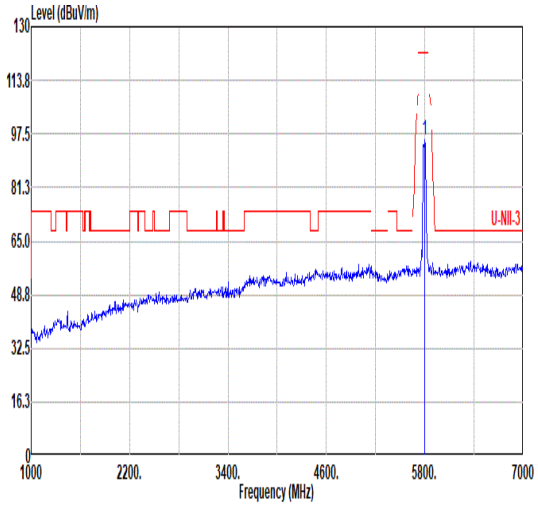
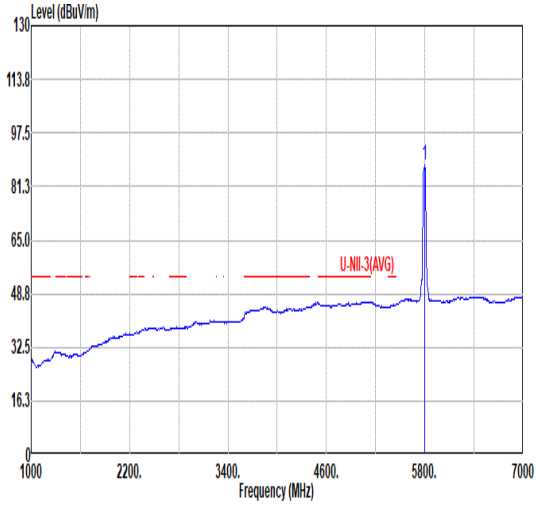
Mode	7	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5607.91 58.04 68.20 -10.16 39.75 34.50 13.13 29.34 0.00 228 360 PEAK 2 5650.69 55.60 68.71 -13.11 37.43 34.50 13.01 29.34 0.00 228 360 PEAK 3 5708.35 59.12 107.64 -48.52 40.97 34.62 13.16 29.63 0.00 228 360 PEAK 4 5720.13 59.23 111.19 -51.96 41.02 34.64 13.26 29.69 0.00 228 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 96.80 ------ ------ 78.40 34.70 13.55 29.85 0.00 228 360 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 88.40 ------ ------ 69.90 34.72 13.66 29.88 0.00 228 360 AVERAGE

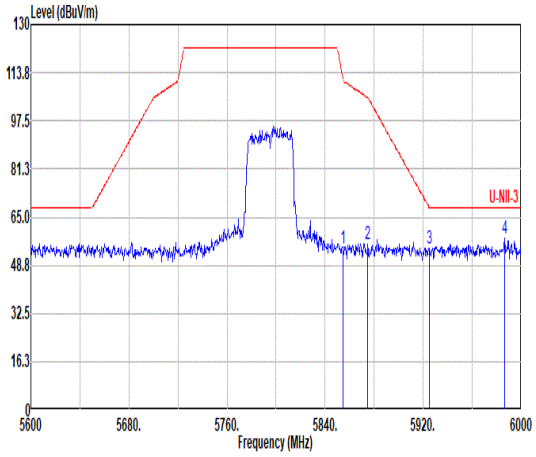
Mode	7	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.26 55.22 112.60 -57.38 36.79 34.92 13.88 30.37 0.00 228 360 PEAK 2 5874.15 55.18 105.54 -50.36 36.71 35.00 13.85 30.38 0.00 228 360 PEAK 3 5924.85 54.73 68.31 -13.58 36.26 35.15 13.73 30.41 0.00 228 360 PEAK 4 5942.98 58.35 68.20 -9.85 39.90 35.19 13.67 30.41 0.00 228 360 PEAK	Blank

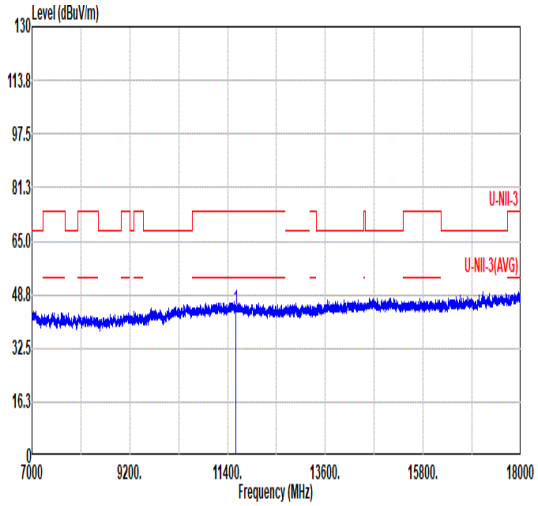
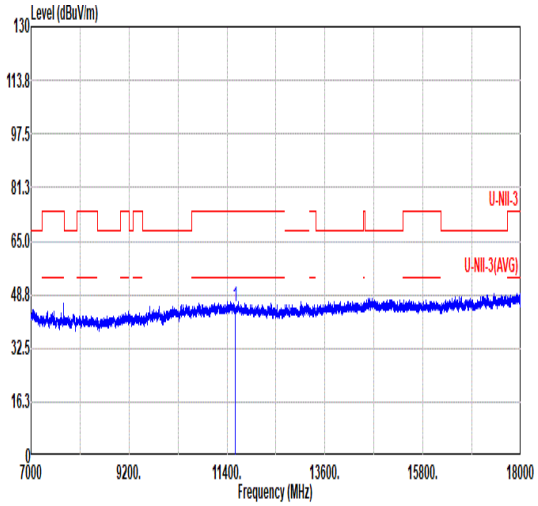
Mode	7	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11510.00 46.15 74.00 -27.85 52.99 38.32 18.75 63.91 0.00 300 72 PEAK 2 11510.00 36.62 54.00 -17.38 43.47 38.33 18.74 63.92 0.00 300 72 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11510.00 45.76 74.00 -28.24 52.60 38.32 18.75 63.91 0.00 -- -- PEAK
Peak Avg	 	

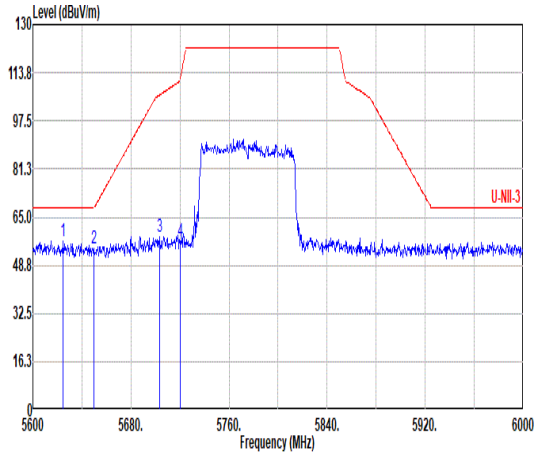
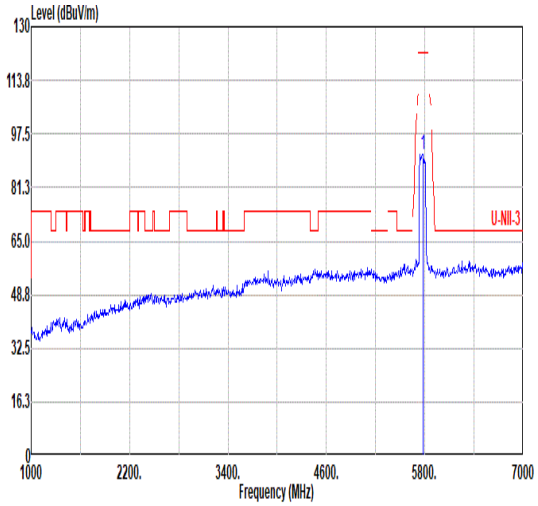
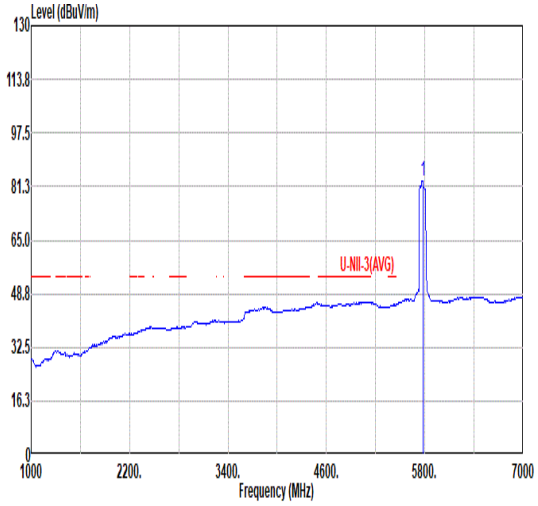
Mode	8	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5609.20 56.47 68.20 -11.73 38.19 34.50 13.12 29.34 0.00 260 112 PEAK 2 5651.20 54.55 69.09 -14.54 36.39 34.50 13.01 29.35 0.00 260 112 PEAK 3 5700.80 55.56 105.52 -49.96 37.46 34.60 13.10 29.60 0.00 260 112 PEAK 4 5720.00 53.18 110.90 -57.72 34.97 34.64 13.26 29.69 0.00 260 112 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5795.00 94.38 ------ ------ 75.38 34.79 14.27 30.06 0.00 260 112 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5795.00 86.15 ------ ------ 67.07 34.80 14.37 30.09 0.00 260 112 AVERAGE

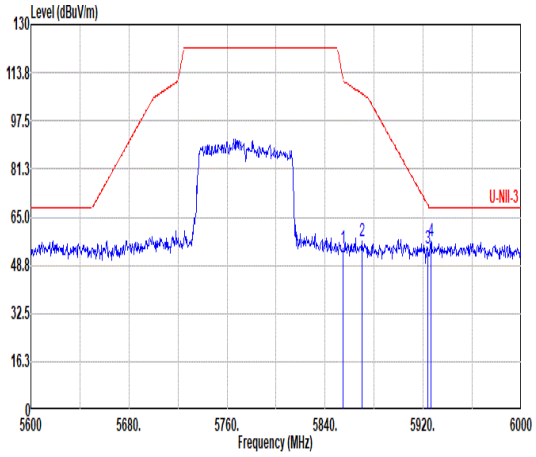
Mode	8	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
Pol.	**Horizontal**	**Fundamental**
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.80 53.37 111.36 -57.99 34.94 34.92 13.88 30.37 0.00 260 112 PEAK 2 5873.60 55.04 105.69 -50.65 36.58 34.99 13.85 30.38 0.00 260 112 PEAK 3 5924.80 54.08 68.35 -14.27 35.61 35.15 13.73 30.41 0.00 260 112 PEAK 4 5977.20 57.54 68.20 -10.66 39.12 35.25 13.60 30.43 0.00 260 112 PEAK	**Blank**

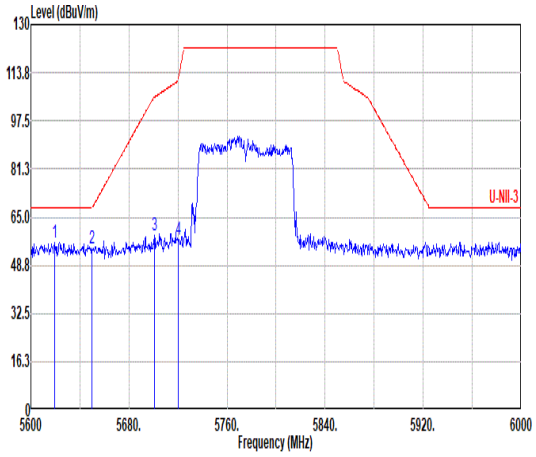
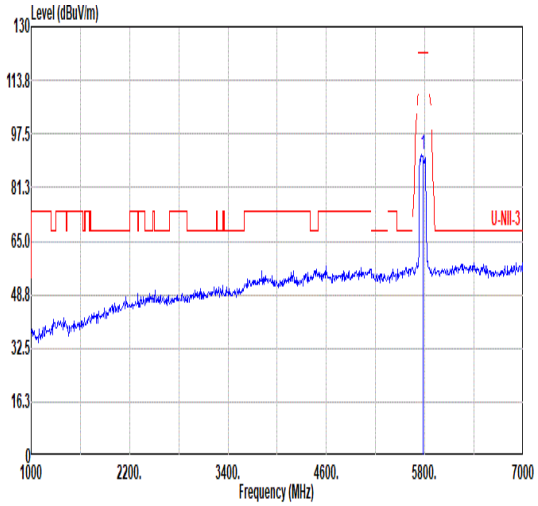
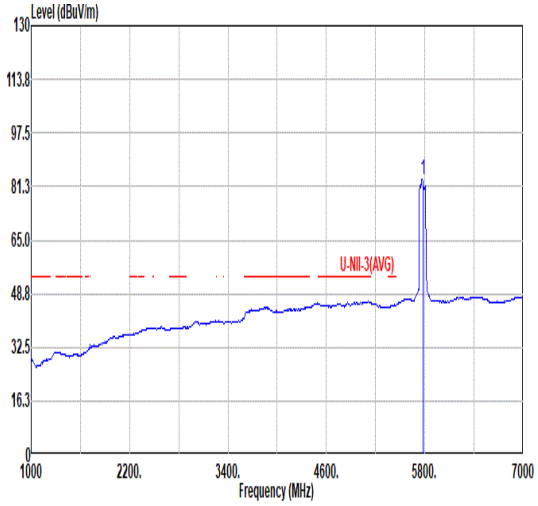
Mode	8	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5636.80 57.27 68.20 -10.93 39.01 34.50 13.05 29.29 0.00 222 360 PEAK 2 5650.00 53.98 68.20 -14.22 35.81 34.50 13.01 29.34 0.00 222 360 PEAK 3 5702.40 54.50 105.97 -51.47 36.39 34.60 13.11 29.60 0.00 222 360 PEAK 4 5720.80 54.58 112.72 -58.14 36.37 34.64 13.27 29.70 0.00 222 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5795.00 95.80 ------ ------ 76.72 34.80 14.37 30.09 0.00 222 360 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5795.00 87.75 ------ ------ 68.67 34.80 14.37 30.09 0.00 222 360 AVERAGE

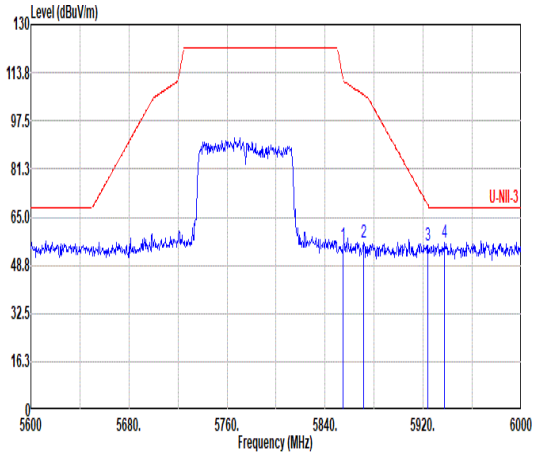
Mode	8	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.80 54.47 111.36 -56.89 36.04 34.92 13.88 30.37 0.00 222 360 PEAK 2 5874.80 56.04 105.36 -49.32 37.57 35.00 13.85 30.38 0.00 222 360 PEAK 3 5924.80 54.26 68.35 -14.09 35.79 35.15 13.73 30.41 0.00 222 360 PEAK 4 5986.40 57.73 68.20 -10.47 39.32 35.27 13.58 30.44 0.00 222 360 PEAK	Blank

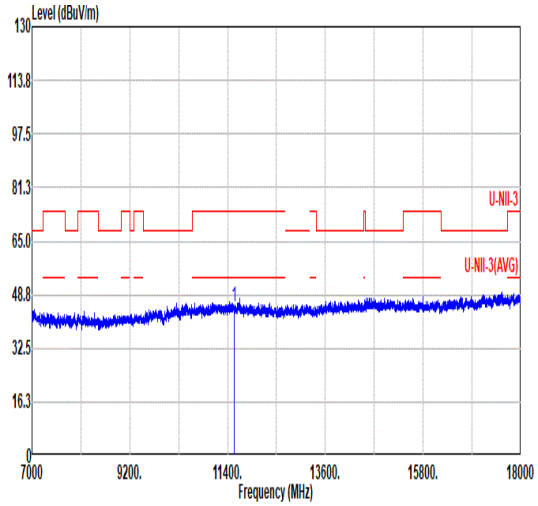
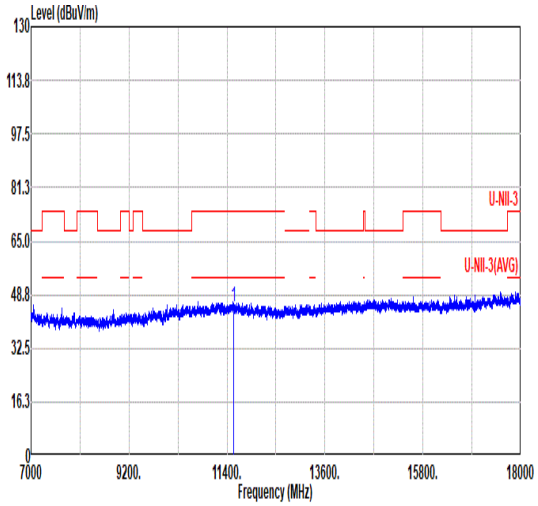
Mode	8	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11590.00 44.34 74.00 -29.66 51.39 38.48 18.58 64.11 0.00 -- -- PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11590.00 45.01 74.00 -28.99 52.06 38.48 18.58 64.11 0.00 -- -- PEAK

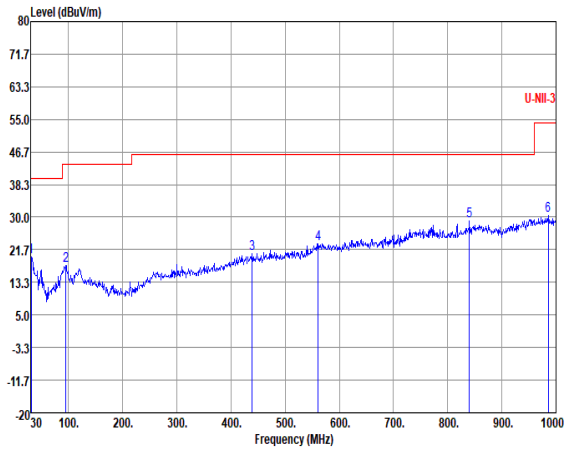
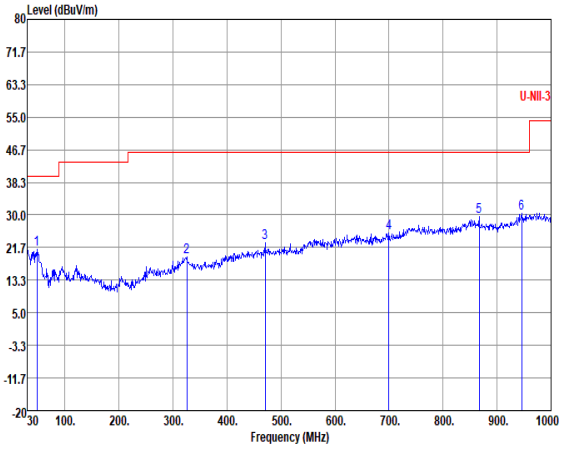
Mode	9	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5624.80 56.69 68.20 -11.51 38.42 34.50 13.08 29.31 0.00 155 91 PEAK 2 5650.00 54.38 68.20 -13.82 36.21 34.50 13.01 29.34 0.00 155 91 PEAK 3 5703.20 58.33 106.20 -47.87 40.21 34.61 13.12 29.61 0.00 155 91 PEAK 4 5720.00 56.67 110.90 -54.23 38.46 34.64 13.26 29.69 0.00 155 91 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5775.00 91.47 ------ ------ 72.81 34.74 13.86 29.94 0.00 155 91 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5775.00 82.90 ------ ------ 64.24 34.74 13.86 29.94 0.00 155 91 AVERAGE

Mode	9	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.80 54.52 111.36 -56.84 36.09 34.92 13.88 30.37 0.00 155 91 PEAK 2 5870.00 57.05 106.70 -49.65 38.60 34.98 13.85 30.38 0.00 155 91 PEAK 3 5924.00 54.50 68.94 -14.44 36.02 35.15 13.73 30.40 0.00 155 91 PEAK 4 5926.40 56.92 68.20 -11.28 38.46 35.15 13.72 30.41 0.00 155 91 PEAK	Blank

Mode	9	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5619.60 56.41 68.20 -11.79 38.13 34.50 13.10 29.32 0.00 188 360 PEAK 2 5650.00 54.42 68.20 -13.78 36.25 34.50 13.01 29.34 0.00 188 360 PEAK 3 5700.80 58.75 105.52 -46.77 40.65 34.60 13.10 29.60 0.00 188 360 PEAK 4 5720.40 57.46 111.81 -54.35 39.24 34.64 13.27 29.69 0.00 188 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5775.00 91.49 ------ ------ 72.91 34.73 13.76 29.91 0.00 188 360 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5775.00 83.46 ------ ------ 64.80 34.74 13.86 29.94 0.00 188 360 AVERAGE

Mode	9	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
Pol.	**Vertical**	**Fundamental**
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.40 55.29 112.27 -56.98 36.86 34.92 13.88 30.37 0.00 188 360 PEAK 2 5871.20 56.55 106.36 -49.81 38.10 34.98 13.85 30.38 0.00 188 360 PEAK 3 5924.00 55.65 68.94 -13.29 37.17 35.15 13.73 30.40 0.00 188 360 PEAK 4 5937.60 56.27 68.20 -11.93 37.81 35.18 13.69 30.41 0.00 188 360 PEAK	**Blank**

Mode	9	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11550.00 44.99 74.00 -29.01 51.93 38.40 18.67 64.01 0.00 -- -- PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11550.00 45.30 74.00 -28.70 52.24 38.40 18.67 64.01 0.00 -- -- PEAK

Mode	9	
	LF	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
Pol.	Horizontal	Vertical
Peak QP	 	

Horizontal:

	Freq	Level	Limit Line	Over Limit	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	30.97	19.84	40.00	-20.16	26.98	24.55	0.51	32.20	---	---	Peak
2	94.99	17.62	43.50	-25.88	33.16	15.26	1.40	32.20	---	---	Peak
3	439.34	20.67	46.00	-25.33	27.30	22.54	3.05	32.22	---	---	Peak
4	560.59	23.30	46.00	-22.70	26.73	25.43	3.44	32.30	---	---	Peak
5	839.95	29.16	46.00	-16.84	28.52	28.81	4.21	32.38	---	---	Peak
6	985.45	30.39	54.00	-23.61	27.82	30.13	4.57	32.13	---	---	Peak

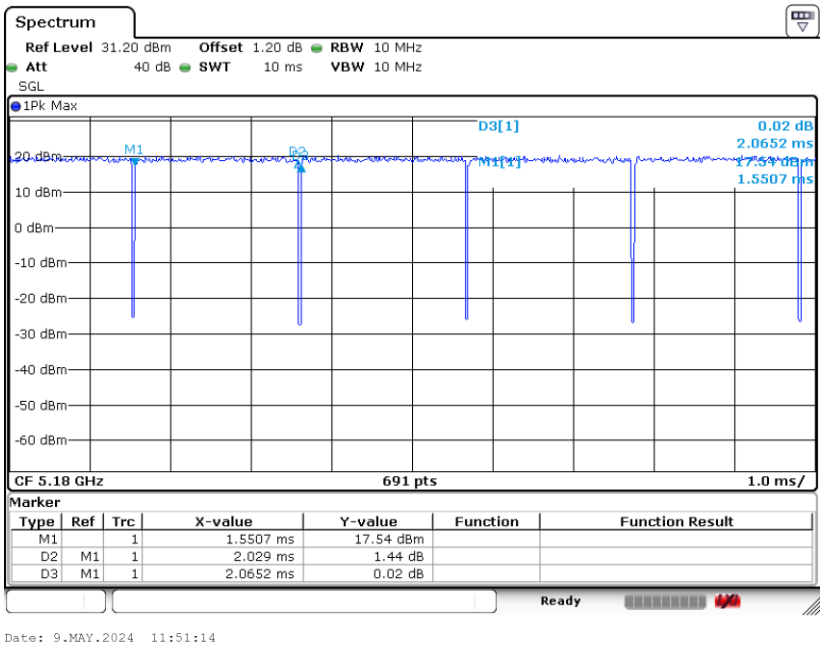
Vertical:

	Freq	Level	Limit Line	Over Limit	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	48.43	21.25	40.00	-18.75	37.53	15.17	0.75	32.20	---	---	Peak
2	325.85	19.35	46.00	-26.65	29.12	19.74	2.64	32.15	---	---	Peak
3	470.38	22.98	46.00	-23.02	28.90	23.20	3.16	32.28	---	---	Peak
4	699.30	25.46	46.00	-20.54	27.45	26.34	3.87	32.20	---	---	Peak
5	867.11	29.51	46.00	-16.49	28.54	29.02	4.28	32.33	---	---	Peak
6	945.68	30.50	46.00	-15.50	28.58	29.65	4.47	32.20	---	---	Peak

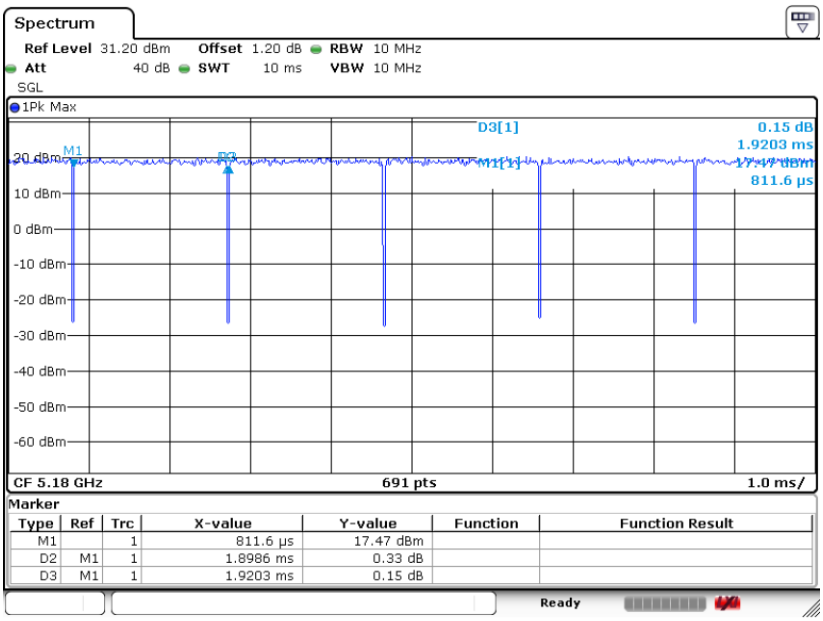
Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	98.25	-	-	10Hz
802.11n HT20	98.87	-	-	10Hz
802.11n HT40	96.24	0.928	1.078	1.1KHz
802.11ac VHT80	92.06	0.454	2.204	2.4KHz

802.11a



802.11n HT20



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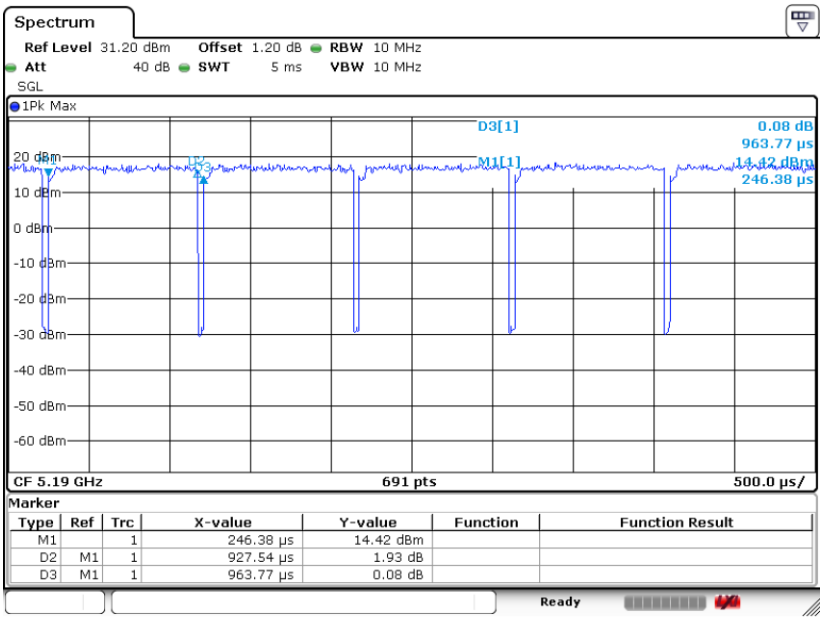

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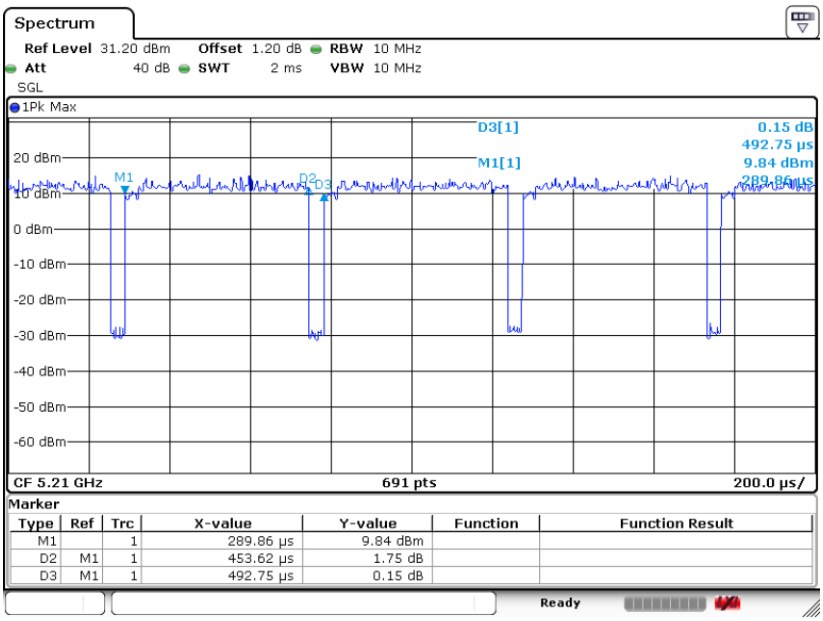
802.11ac VHT80



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