FCC RADIO TEST REPORT

FCC ID	:	**A4RGWSQ2**
Equipment	:	**Wireless Device**
Model Name	:	**GWSQ2**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, CA, 94043 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Feb. 18, 2025 and testing was performed from Feb. 27, 2025 to Mar. 29, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, 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 from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR4D1913F	01	Initial issue of report	Apr. 09, 2025
FR4D1913F	02	Revise Carrier Frequency and Channel This report is an updated version, replacing the report issued on Apr. 09, 2025.	Apr. 15, 2025
FR4D1913F	03	Revise Appendix A and Appendix C This report is an updated version, replacing the report issued on Apr. 15, 2025.	Apr. 25, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(e)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)	Maximum E.I.R.P Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	-
3.5	15.207	AC Conducted Emission	Pass	-
3.6	15.203	Antenna Requirement	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.

Reviewed by: Yun Huang

Report Producer: Clio Lo

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs LTE/NTN, Bluetooth, BLE, BLE ASK, BLE GFSK, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, UWB, 60GHz and GNSS. **Antenna Type** WLAN: PIFA Antenna

EUT Information List	
S/N	**Performed Test Item**
51161WRCVL125M	RF Conducted Measurement
51151WRCVL11SS	Radiated Spurious Emission
51151WRCVL11SP	Conducted Emission

Antenna information		
5850 MHz ~ 5895 MHz	Peak Gain (dBi)	-1.2

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH02-HY, 03CH07-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	CO07-HY (TAF Code: 3786)
Remark	The Conducted Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 291074 D02 EMC Measurement v01
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Y plane with Adapter as worst plane.

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

2.1 Carrier Frequency and Channel

Frequency Band	Bandwidth	Channel	Frequency (MHz)	Note
5850-5895 MHz (U-NII-4)	20 MHz	169	5845	Straddle
		173	5865	
		177	5885	
	40 MHz	167	5835	Straddle
		175	5875	
	80 MHz	171	5855	Straddle

Note: The channel noted with “straddle” spans 5.725-5.850 GHz and 5.850-5.895 GHz.

2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The power for 802.11ac VHT20/40 mode is smaller than 802.11n mode, so all other conducted and radiated test is covered by 802.11n mode.

The final test modes include the worst data rates for each modulation shown in the table below.

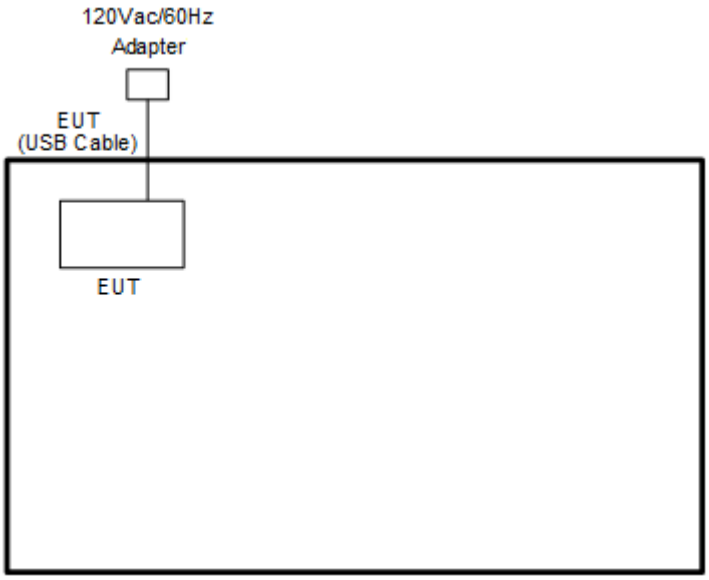
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz_11a Ch173) Tx + USB Cable (Charging from Adapter)

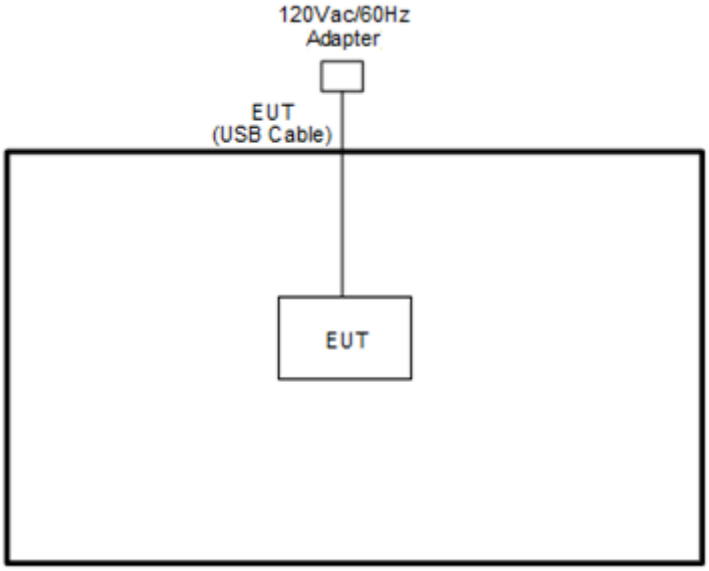
Remark:
1. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.
2. The detailed Radiated test modes are shown in Appendix C.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “adb version 1.0.41” was installed in Notebook which was programmed in order to 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.

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 4.2 dB and 10 dB attenuator.

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

= 4.2 + 10 = 14.2 (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

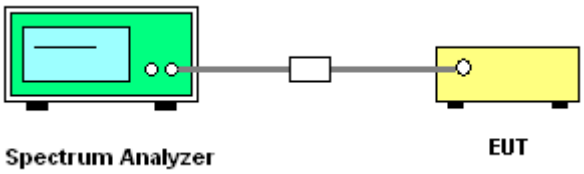
Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

The testing follows FCC KDB 291074 D02 EMC Measurement v01 Section 2.11 Minimum Emission bandwidth

1. Set RBW = 100 kHz.
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.

3.2 Maximum E.I.R.P Output Power Measurement

3.2.1 Limit of Maximum E.I.R.P Output Power

For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

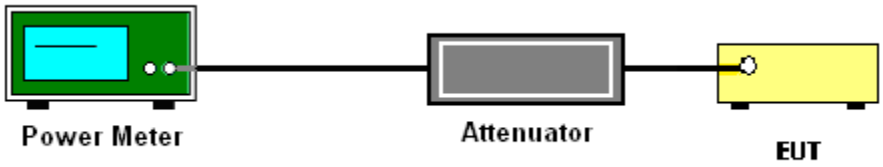
3.2.3 Test Procedures

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

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.

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

1. For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band.
2. For client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands shall meet both 15.407(a)(3)(i) 30dBm/500kHz and 15.407(a)(3)(iii) 14dBm/MHz limit, where the stringent limit 14dBm/MHz is applied.
3. For an indoor access point operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands shall meet both 15.407(a)(3)(ii) 36dBm limit, where the stringent limit 20dBm/MHz is applied.

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

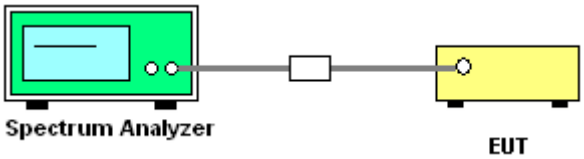
 # Method SA-2 #

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

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

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

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

This section 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) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as the following 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

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

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

(2) For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

15.407(b)(5)(ii), all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of −5 dBm/MHz and shall decrease linearly to an e.i.r.p. of −27 dBm/MHz at or above 5.925 GHz.

All emissions below 5.725 GHz shall not exceed an e.i.r.p. of −27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

(3) KDB789033 D02 v02r01 G)2)c)

Use guidance in KDB Publication 789033 for all measurements. Unwanted emissions outside of restricted bands are measured with an RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

Unwanted band-edge emissions may be measured using the integration method as described in KDB Publication 789033 3. d) (ii). Emissions below 5725 MHz should be measured using peak-detection while emission above 5895 MHz should be measured using average.

Frequency(GHz)	EIRP (dBm)	Field Strength @3m distance (dBuV/m)	Note
Below 5.65	-27dBm/MHz	68.2	Peak
5.7	10dBm/MHz	105.2	Peak
5.72	15.6dBm/MHz	110.8	Peak
5.725	27dBm/MHz	122.2	Peak
5.895	-5dBm/MHz	90.2	Average
5.895	15dBm/MHz	110.2	Peak
Above 5.925	-27dBm/MHz	68.2	Average
Above 5.925	-7dBm/MHz	88.2	Peak

Note: Field strength at 3 m distance is converted to EIRP as the following equation:

EIRP[dBm] = E[dBμV/m]− 95.2

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in 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 1000 MHz

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

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

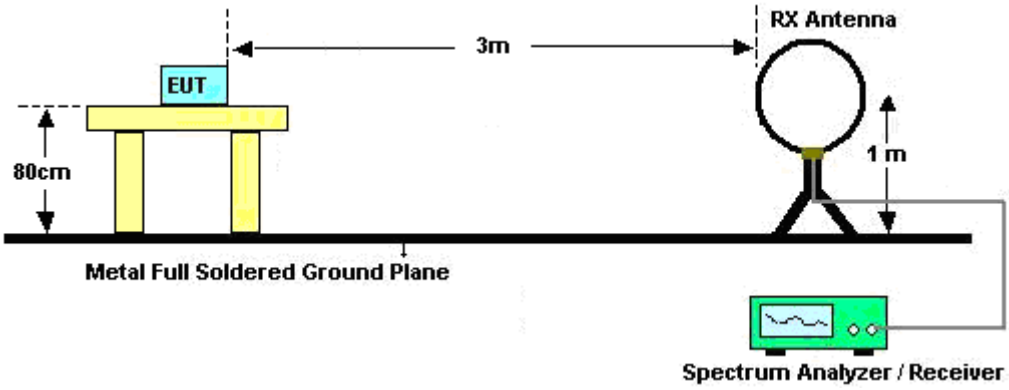
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was placed at distance 3 meter from measurement antenna which was mounted on the top of a variable height antenna tower.

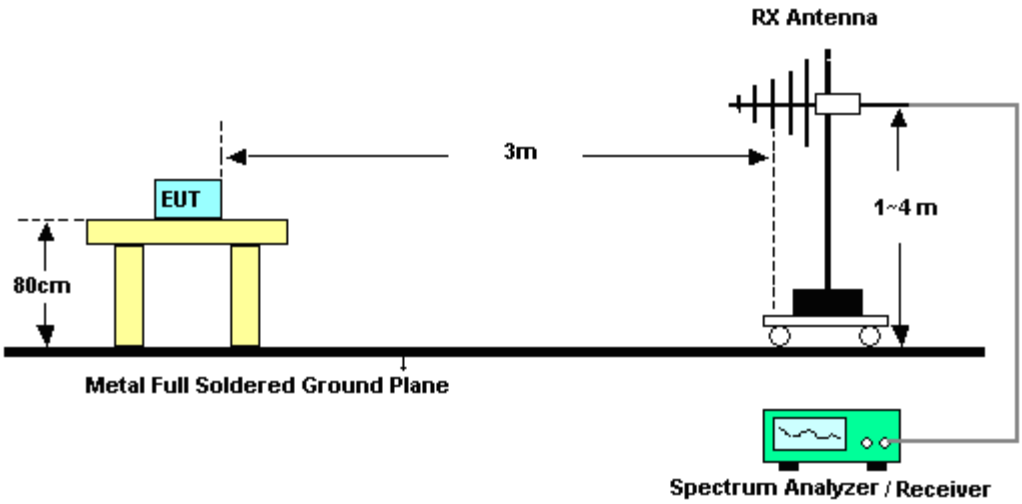
4. The measurement antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization.
5. For each suspected emission, the EUT was arranged to its worst case 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. Radiated testing below 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0 degree to 360 degree to find the peak maximum hold reading.
   When there is no suspected emission found and the emission level is with at least 6dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0 degree to 360 degree to find the peak maximum hold reading for scanning all frequencies.
   When there is no suspected emission found and the harmonic emission level is with at least 6dB margin against average limit line, the position is marked as "-".

3.4.4 Test Setup

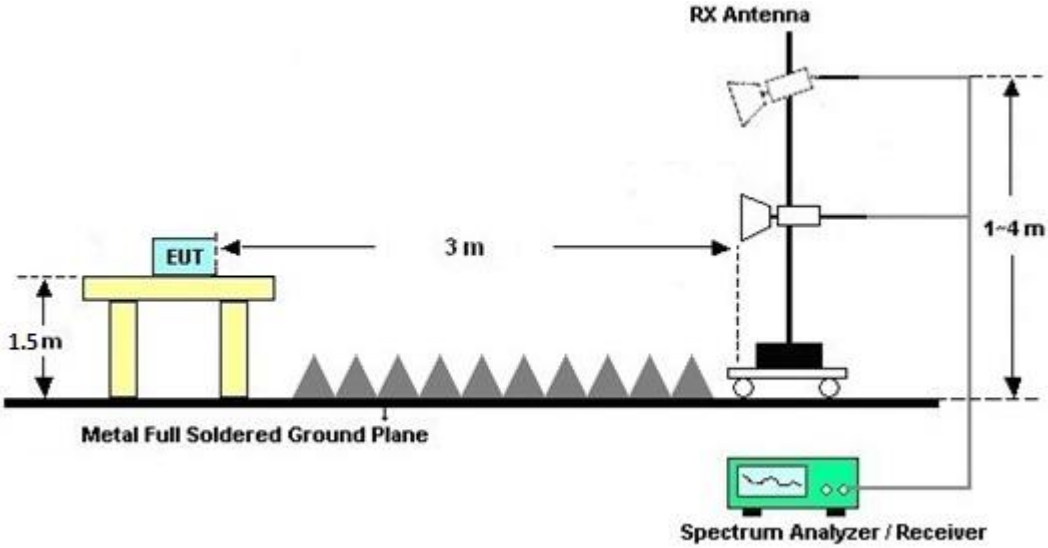
For radiated emissions below 30MHz



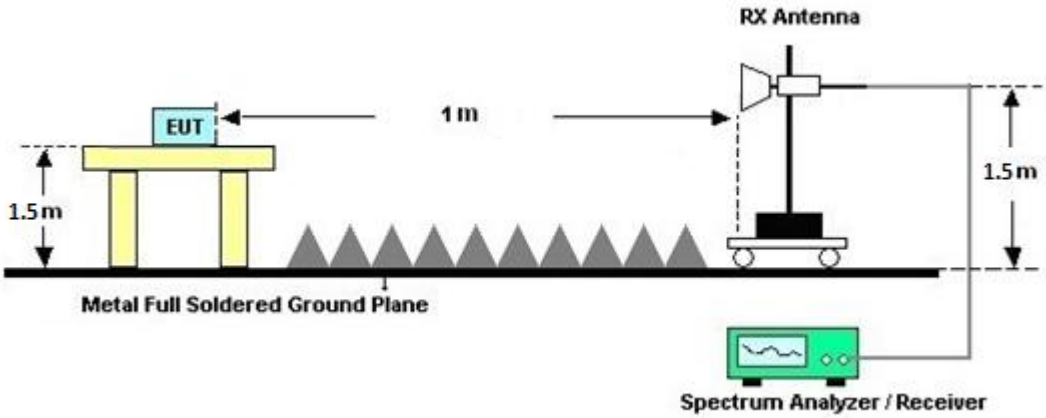
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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 adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Results of Radiated Spurious Emissions and 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)

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.

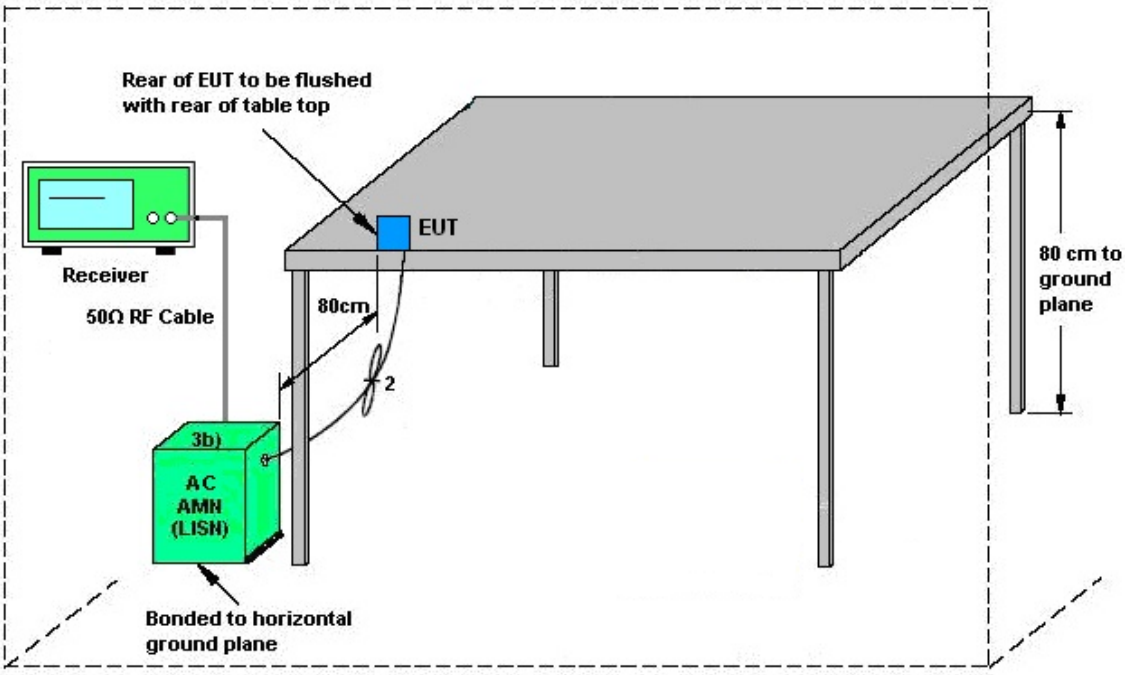
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in 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 shall 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

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.6.2 Antenna Anti-Replacement Construction

b) Unique (non-standard) antenna connector.

(3) Use of a standard connector is also allowed if the connector is within the transmitter enclosure and can only be accessed by disassembly of the transmitter, where such disassembly is not normally required. The user manual must not show that user has access to the connector.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 22, 2024	Mar. 21, 2025 ~ Mar. 29, 2025	Apr. 21, 2025	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Nov. 28, 2024	Mar. 21, 2025 ~ Mar. 29, 2025	Nov. 27, 2025	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Mar. 21, 2025 ~ Mar. 29, 2025	Mar. 05, 2026	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 19, 2024	Mar. 21, 2025 ~ Mar. 29, 2025	Apr. 18, 2025	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 01, 2024	Mar. 21, 2025 ~ Mar. 29, 2025	Sep. 30, 2025	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Aug. 05, 2024	Mar. 21, 2025 ~ Mar. 29, 2025	Aug. 04, 2025	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 23, 2024	Mar. 21, 2025	Mar. 22, 2025	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 22, 2025	Mar. 22, 2025 ~ Mar. 29, 2025	Mar. 21, 2026	Radiation (03CH07-HY)
Spectrum Analyzer	Keysight	N9010B	MY64320114	10Hz~44GHz	Oct. 05, 2024	Mar. 21, 2025 ~ Mar. 29, 2025	Oct. 04, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 20, 2025	Mar. 21, 2025 ~ Mar. 29, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 20, 2025	Mar. 21, 2025 ~ Mar. 29, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 14, 2024	Mar. 21, 2025 ~ Mar. 29, 2025	Sep. 13, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 20, 2025	Mar. 21, 2025 ~ Mar. 29, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 22, 2024	Mar. 21, 2025 ~ Mar. 29, 2025	Apr. 21, 2025	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Mar. 21, 2025 ~ Mar. 29, 2025	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Mar. 21, 2025 ~ Mar. 29, 2025	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Mar. 21, 2025 ~ Mar. 29, 2025	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Mar. 21, 2025 ~ Mar. 29, 2025	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Mar. 21, 2025 ~ Mar. 29, 2025	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Feb. 24, 2025	Mar. 21, 2025 ~ Mar. 29, 2025	Feb. 23, 2026	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00991	18GHz-40GHz	Jun. 04, 2024	Mar. 21, 2025 ~ Mar. 29, 2025	Jun. 03, 2025	Radiation (03CH07-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 28, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 28, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Mar. 28, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Mar. 28, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Mar. 28, 2025	Mar. 23, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Mar. 28, 2025	Sep. 22, 2025	Conduction (CO07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Feb. 27, 2025~ Mar. 24, 2025	Oct. 30, 2025	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Feb. 27, 2025~ Mar. 24, 2025	Jan. 08, 2026	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Feb. 27, 2025~ Mar. 24, 2025	Jan. 13, 2026	Conducted (TH02-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Feb. 27, 2025~ Mar. 24, 2025	May 19, 2025	Conducted (TH02-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Feb. 27, 2025~ Mar. 24, 2025	N/A	Conducted (TH02-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.2 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.6 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.3 dB

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

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Willy Chang	Temperature:	21~25	°C
Test Date:	2025/02/27~2025/03/24	Relative Humidity:	51~54	%

Report Number : FR4D1913F

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

UNII-4 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
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	169	5845	23.55	-	45.11	-	16.33	-	0.5	Pass
11a	6Mbps	1	173	5865	23.36	-	43.37	-	16.34	-	0.5	Pass
11a	6Mbps	1	177	5885	23.26	-	43.78	-	16.33	-	0.5	Pass
HT20	MCS0	1	169	5845	27.08	-	47.91	-	17.57	-	0.5	Pass
HT20	MCS0	1	173	5865	27.63	-	47.53	-	17.57	-	0.5	Pass
HT20	MCS0	1	177	5885	28.07	-	47.26	-	17.57	-	0.5	Pass
HT40	MCS0	1	167	5835	47.48	-	95.41	-	36.34	-	0.5	Pass
HT40	MCS0	1	175	5875	50.98	-	94.27	-	36.35	-	0.5	Pass
VHT80	MCS0	1	171	5855	76.29	-	176.03	-	75.47	-	0.5	Pass

TEST RESULTS DATA
Average Power Table

UNII-4 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
11a	6Mbps	1	169	5845	18.13	-		-1.20	-	16.93	-	30	-
11a	6Mbps	1	173	5865	18.02	-		-1.20	-	16.82	-	30	-
11a	6Mbps	1	177	5885	18.01	-		-1.20	-	16.81	-	30	-
HT20	MCS0	1	169	5845	18.07	-		-1.20	-	16.87	-	30	-
HT20	MCS0	1	173	5865	18.01	-		-1.20	-	16.81	-	30	-
HT20	MCS0	1	177	5885	18.03	-		-1.20	-	16.83	-	30	-
HT40	MCS0	1	167	5835	16.86	-		-1.20	-	15.66	-	30	-
HT40	MCS0	1	175	5875	17.11	-		-1.20	-	15.91	-	30	-
VHT20	MCS0	1	169	5845	17.97	-		-1.20	-	16.77	-	30	-
VHT20	MCS0	1	173	5865	17.91	-		-1.20	-	16.71	-	30	-
VHT20	MCS0	1	177	5885	17.93	-		-1.20	-	16.73	-	30	-
VHT40	MCS0	1	167	5835	16.76	-		-1.20	-	15.56	-	30	-
VHT40	MCS0	1	175	5875	17.01	-		-1.20	-	15.81	-	30	-
VHT80	MCS0	1	171	5855	16.27	-		-1.20	-	15.07	-	30	-

Report Number : FR4D1913F

TEST RESULTS DATA
Power Spectral Density

UNII-4 single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP PSD (dBm/MHz)		EIRP PSD Limit (dBm/MHz)		Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	169	5845	0.43	-	6.41	-		-1.20	-	5.21	-	14.00	-	Pass
11a	6Mbps	1	173	5865	0.43	-	6.37	-		-1.20	-	5.17	-	14.00	-	Pass
11a	6Mbps	1	177	5885	0.43	-	6.28	-		-1.20	-	5.08	-	14.00	-	Pass
HT20	MCS0	1	169	5845	0.45	-	6.46	-		-1.20	-	5.26	-	14.00	-	Pass
HT20	MCS0	1	173	5865	0.45	-	6.65	-		-1.20	-	5.45	-	14.00	-	Pass
HT20	MCS0	1	177	5885	0.45	-	6.48	-		-1.20	-	5.28	-	14.00	-	Pass
HT40	MCS0	1	167	5835	0.25	-	2.20	-		-1.20	-	1.00	-	14.00	-	Pass
HT40	MCS0	1	175	5875	0.25	-	2.00	-		-1.20	-	0.80	-	14.00	-	Pass
VHT80	MCS0	1	171	5855	0.52	-	-1.15	-		-1.20	-	-2.35	-	14.00	-	Pass

Report Number : FR4D1913F

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

UNII-4 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	1	169	5845	Full	20.00	-	46.19	-	18.98	-	0.5	Pass
HE20	MCS0	1	173	5865	Full	20.11	-	45.70	-	18.98	-	0.5	Pass
HE20	MCS0	1	177	5885	Full	20.13	-	44.29	-	18.96	-	0.5	Pass
HE40	MCS0	1	167	5835	Full	38.73	-	84.38	-	37.59	-	0.5	Pass
HE40	MCS0	1	175	5875	Full	38.70	-	79.38	-	37.62	-	0.5	Pass
HE80	MCS0	1	171	5855	Full	77.43	-	136.48	-	76.91	-	0.5	Pass

Report Number : FR4D1913F

TEST RESULTS DATA
Average Power Table

UNII-4 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
HE20	MCS0	1	169	5845	Full	17.15	-		-1.20	-	15.95	-	30	-
HE20	MCS0	1	169	5845	26/0	9.00	-		-1.20	-	7.80	-	30	-
HE20	MCS0	1	169	5845	52/37	11.90	-		-1.20	-	10.70	-	30	-
HE20	MCS0	1	169	5845	106/53	15.00	-		-1.20	-	13.80	-	30	-
HE20	MCS0	1	173	5865	Full	17.05	-		-1.20	-	15.85	-	30	-
HE20	MCS0	1	173	5865	26/4	9.50	-		-1.20	-	8.30	-	30	-
HE20	MCS0	1	173	5865	52/38	11.80	-		-1.20	-	10.60	-	30	-
HE20	MCS0	1	173	5865	106/53	14.80	-		-1.20	-	13.60	-	30	-
HE20	MCS0	1	177	5885	Full	17.12	-		-1.20	-	15.92	-	30	-
HE20	MCS0	1	177	5885	26/8	8.80	-		-1.20	-	7.60	-	30	-
HE20	MCS0	1	177	5885	52/40	11.20	-		-1.20	-	10.00	-	30	-
HE20	MCS0	1	177	5885	106/54	14.40	-		-1.20	-	13.20	-	30	-
HE40	MCS0	1	167	5835	Full	16.51	-		-1.20	-	15.31	-	30	-
HE40	MCS0	1	175	5875	Full	16.42	-		-1.20	-	15.22	-	30	-
HE80	MCS0	1	171	5855	Full	16.33	-		-1.20	-	15.13	-	30	-

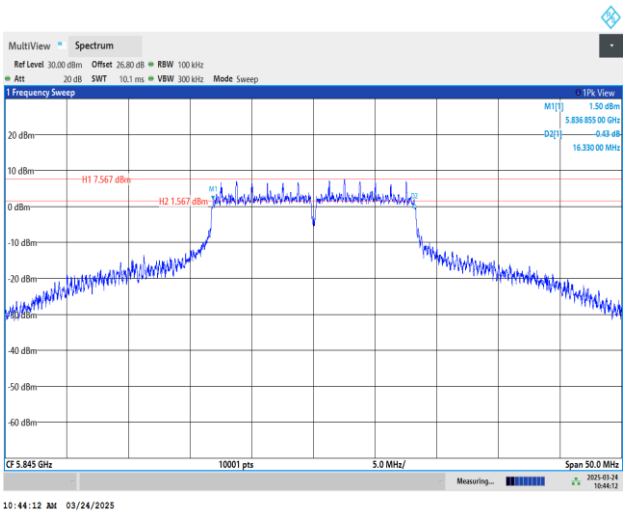
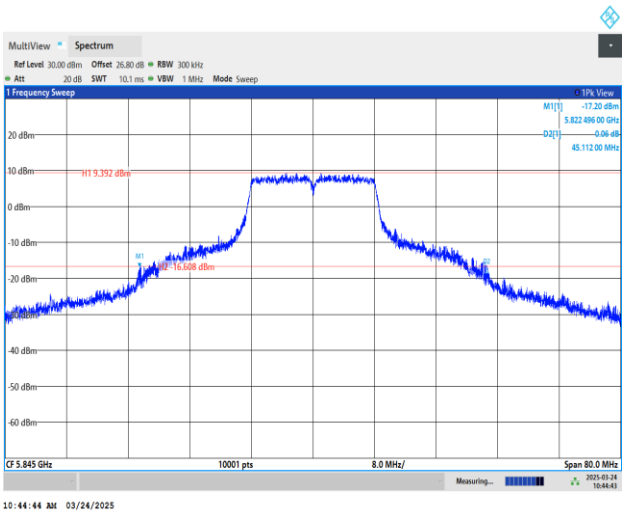
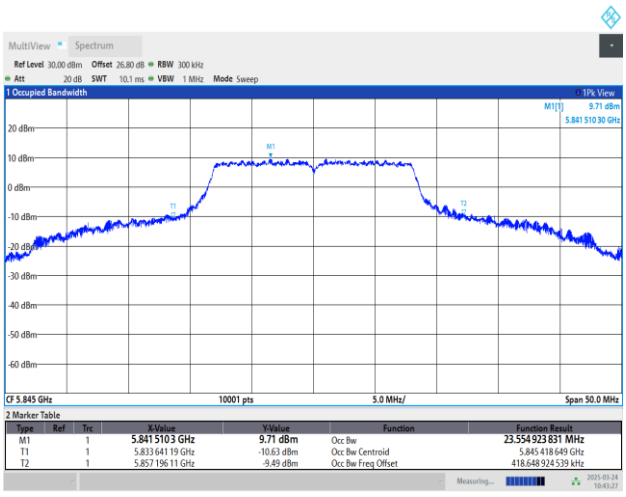
Report Number : FR4D1913F

TEST RESULTS DATA
Power Spectral Density

UNII-4 single antenna																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP PSD (dBm/MHz)		EIRP PSD Limit (dBm/MHz)		Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	1	169	5845	Full	0.58	-	5.77	-		-1.20	-	4.57	-	14.00	-	Pass
HE20	MCS0	1	169	5845	26/0	0.75	-	5.70	-		-1.20	-	4.50	-	14.00	-	Pass
HE20	MCS0	1	169	5845	52/37	0.77	-	5.72	-		-1.20	-	4.52	-	14.00	-	Pass
HE20	MCS0	1	169	5845	106/53	0.83	-	5.72	-		-1.20	-	4.52	-	14.00	-	Pass
HE20	MCS0	1	173	5865	Full	0.58	-	5.72	-		-1.20	-	4.52	-	14.00	-	Pass
HE20	MCS0	1	173	5865	26/4	0.75	-	5.52	-		-1.20	-	4.32	-	14.00	-	Pass
HE20	MCS0	1	173	5865	52/38	0.77	-	5.63	-		-1.20	-	4.43	-	14.00	-	Pass
HE20	MCS0	1	173	5865	106/53	0.83	-	5.55	-		-1.20	-	4.35	-	14.00	-	Pass
HE20	MCS0	1	177	5885	Full	0.58	-	5.56	-		-1.20	-	4.36	-	14.00	-	Pass
HE20	MCS0	1	177	5885	26/8	0.75	-	5.45	-		-1.20	-	4.25	-	14.00	-	Pass
HE20	MCS0	1	177	5885	52/40	0.77	-	5.36	-		-1.20	-	4.16	-	14.00	-	Pass
HE20	MCS0	1	177	5885	106/54	0.83	-	5.41	-		-1.20	-	4.21	-	14.00	-	Pass
HE40	MCS0	1	167	5835	Full	0.32	-	1.65	-		-1.20	-	0.45	-	14.00	-	Pass
HE40	MCS0	1	175	5875	Full	0.32	-	1.77	-		-1.20	-	0.57	-	14.00	-	Pass
HE80	MCS0	1	171	5855	Full	0.62	-	-1.17	-		-1.20	-	-2.37	-	14.00	-	Pass

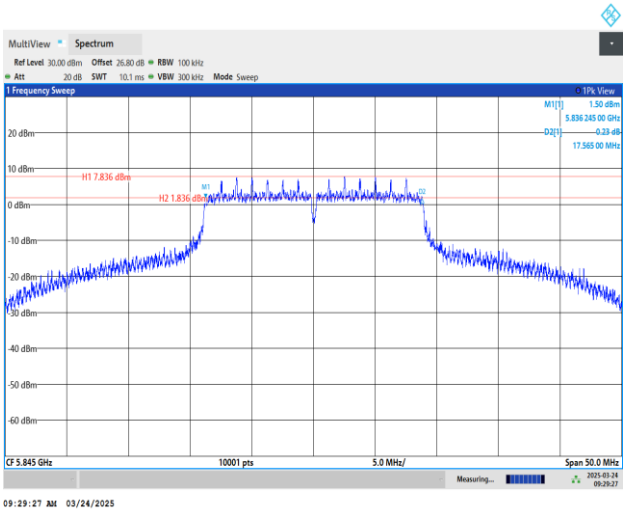
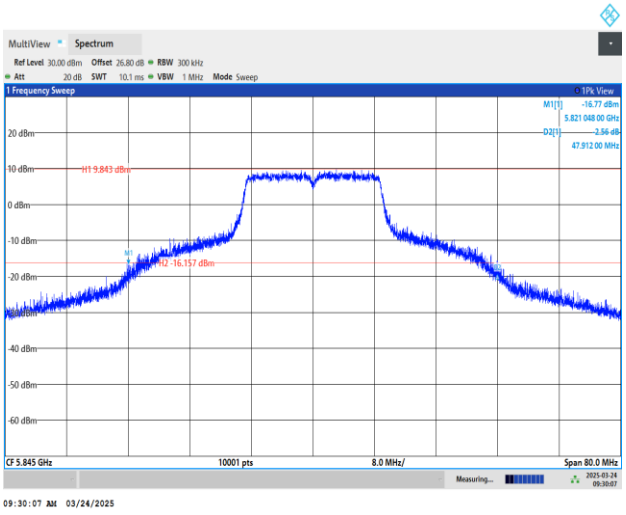
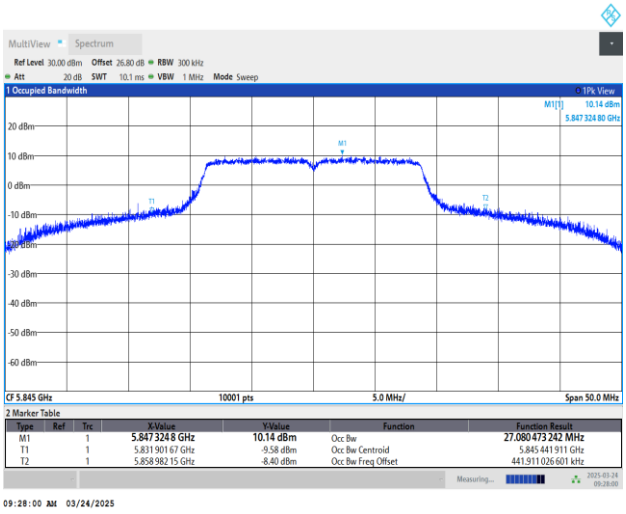
Test Result of 6dB and 26dB and 99% Occupied Bandwidth

<802.11a>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

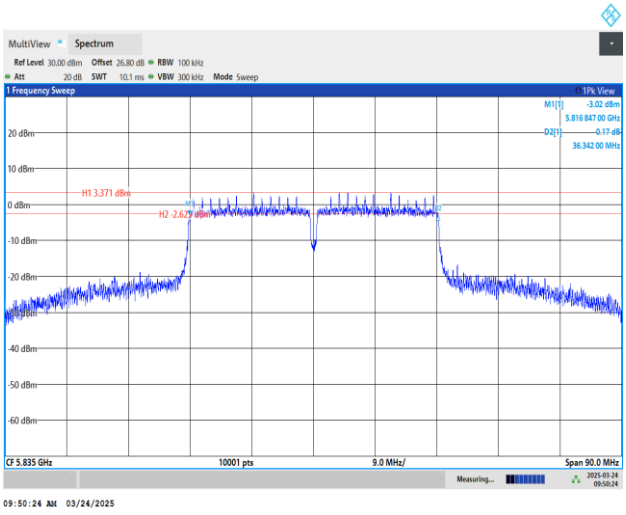
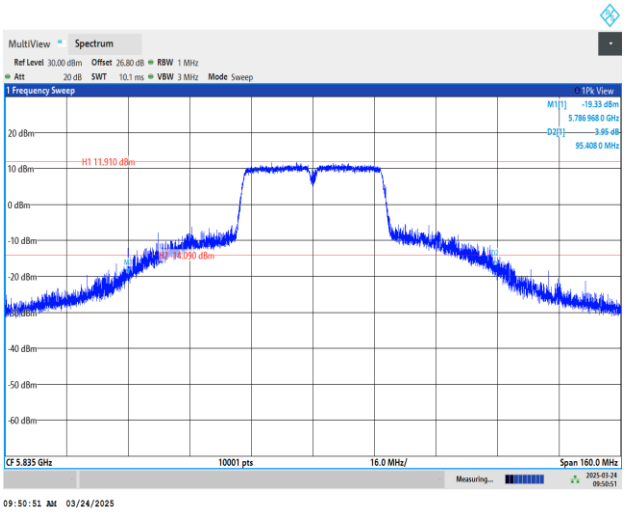
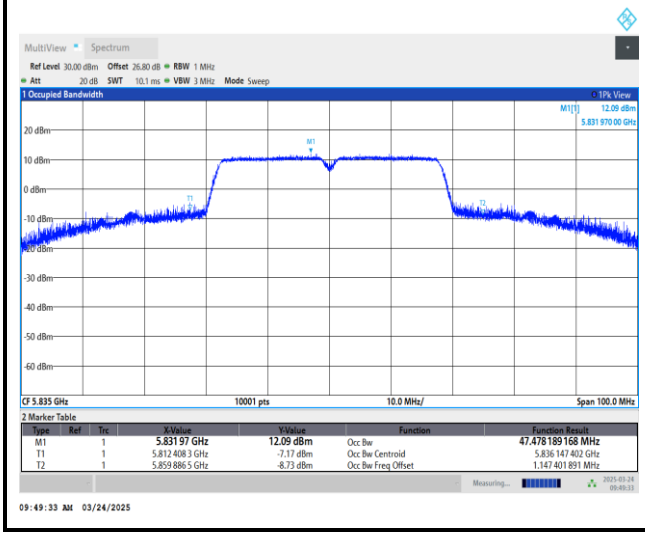
Note: The occupied channel bandwidth is maintained within the band of operation.

<802.11n HT20>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

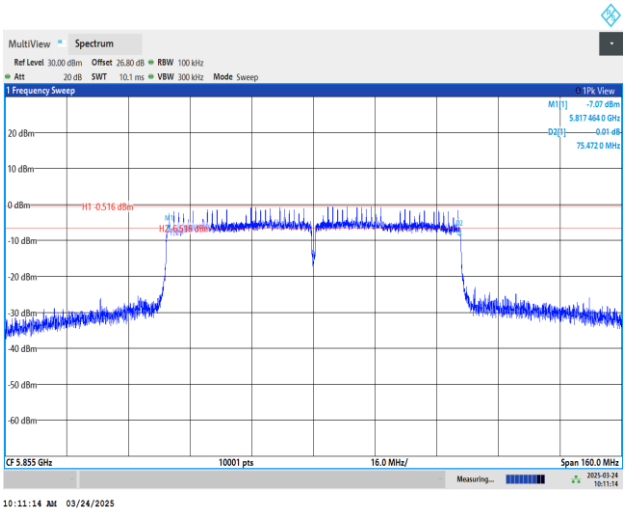
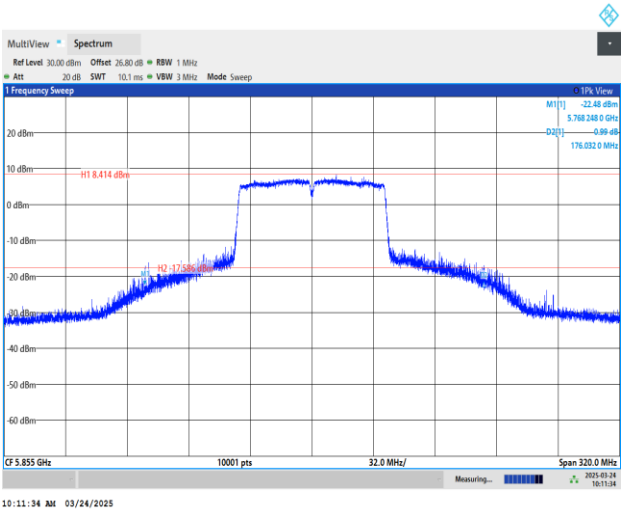
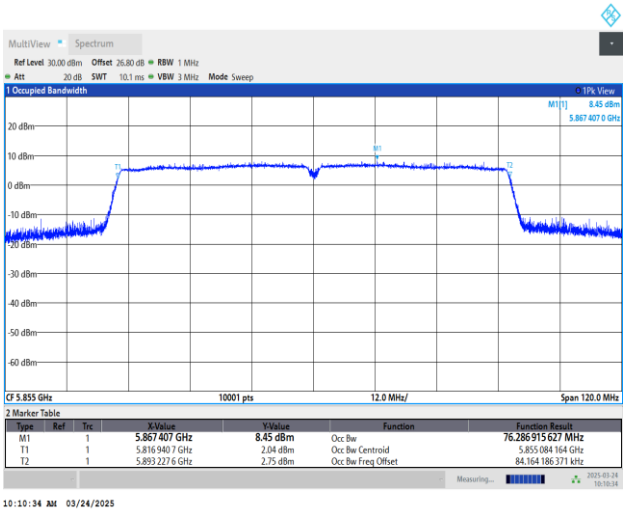
Note: The occupied channel bandwidth is maintained within the band of operation.

<802.11n HT40>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

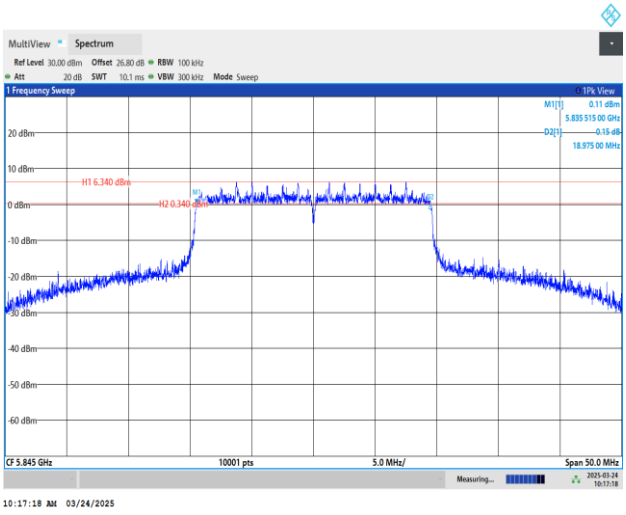
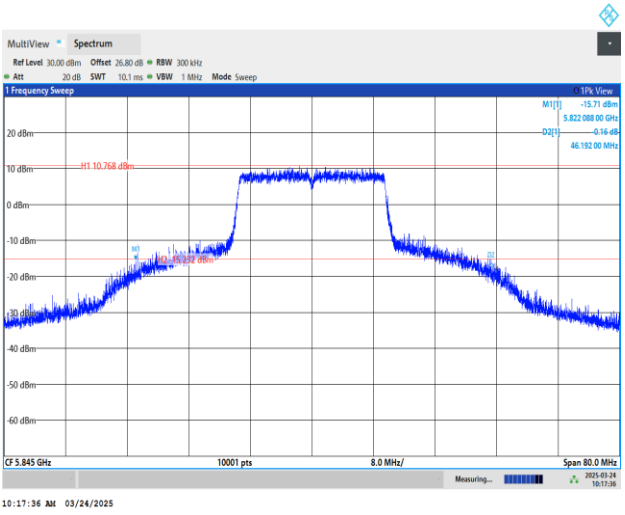
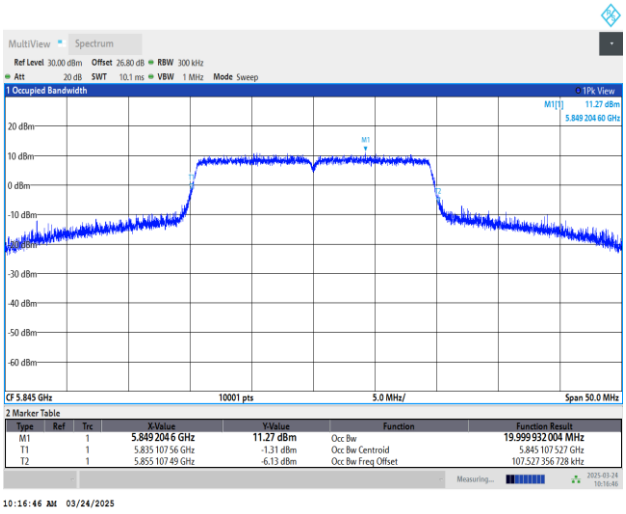
Note: The occupied channel bandwidth is maintained within the band of operation.

<802.11ac VHT80>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

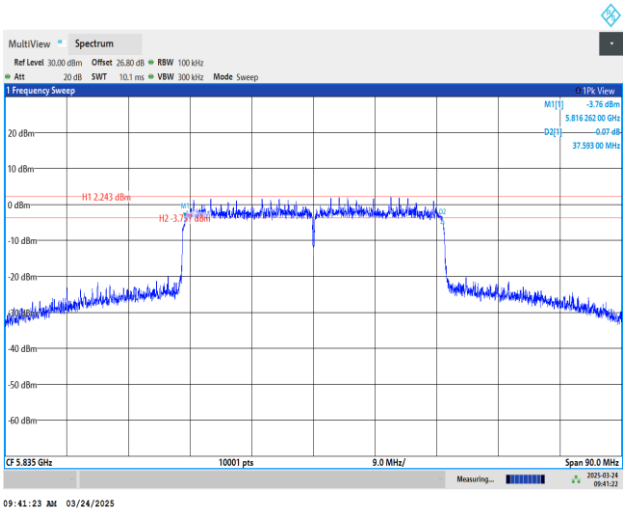
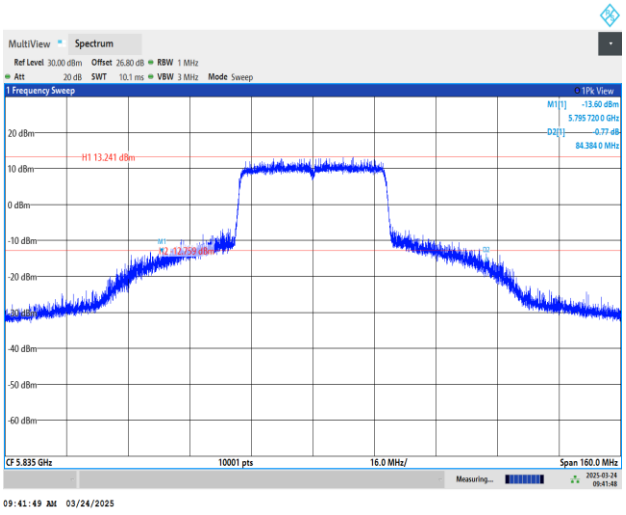
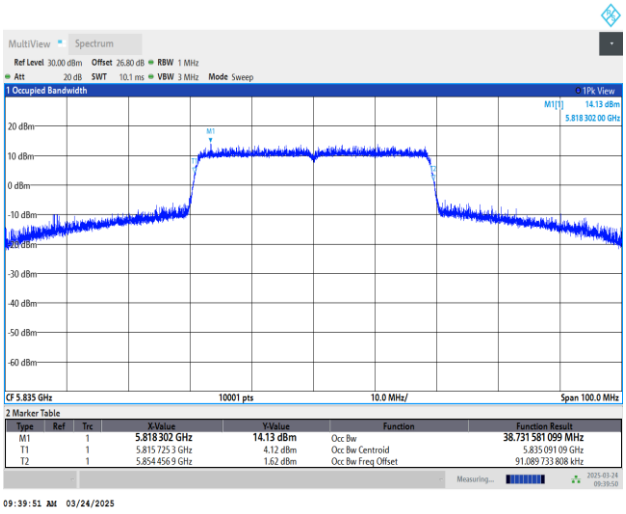
Note: The occupied channel bandwidth is maintained within the band of operation.

<802.11ax HE20>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

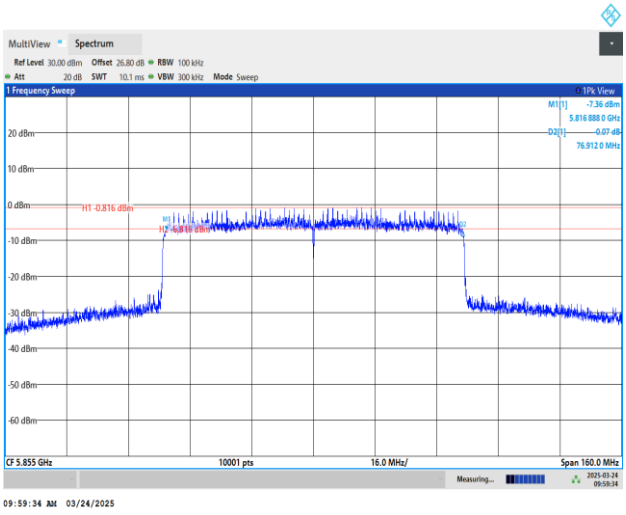
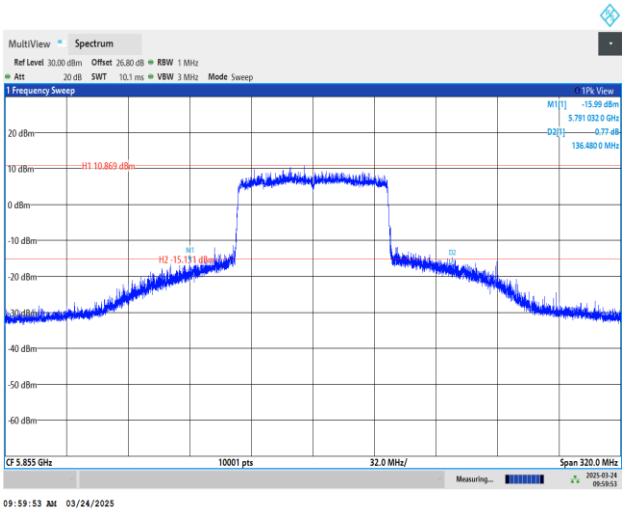
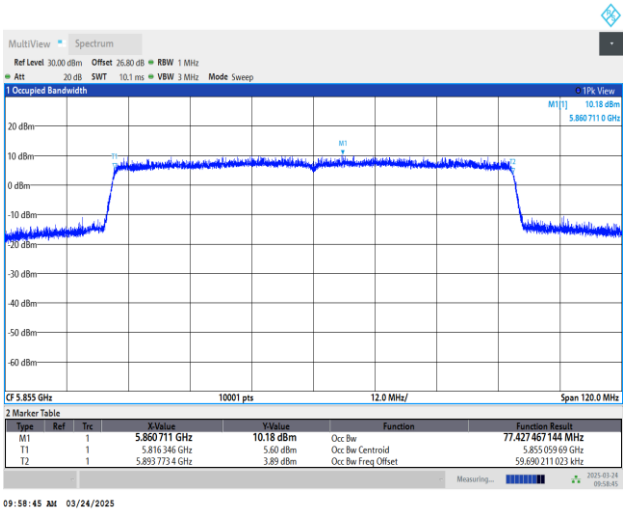
Note: The occupied channel bandwidth is maintained within the band of operation.

<802.11ax HE40>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

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

<802.11ax HE80>

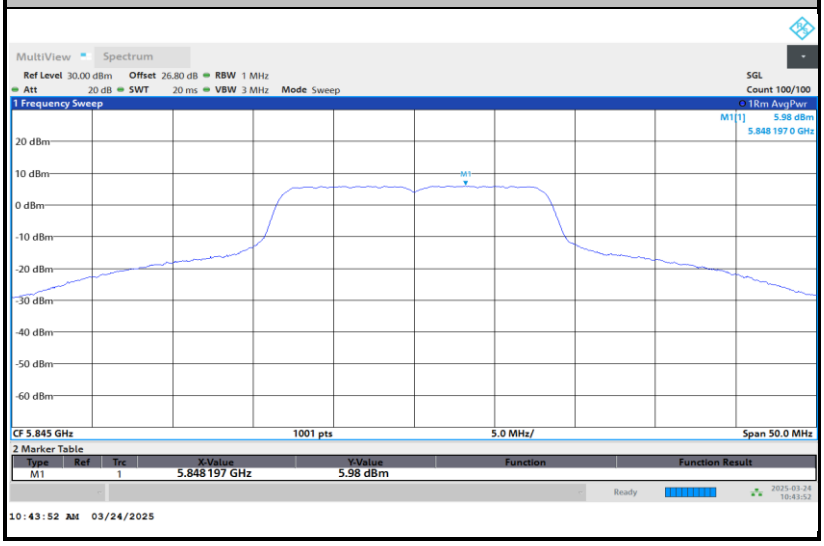
6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

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

Test Result of Power Spectral Density

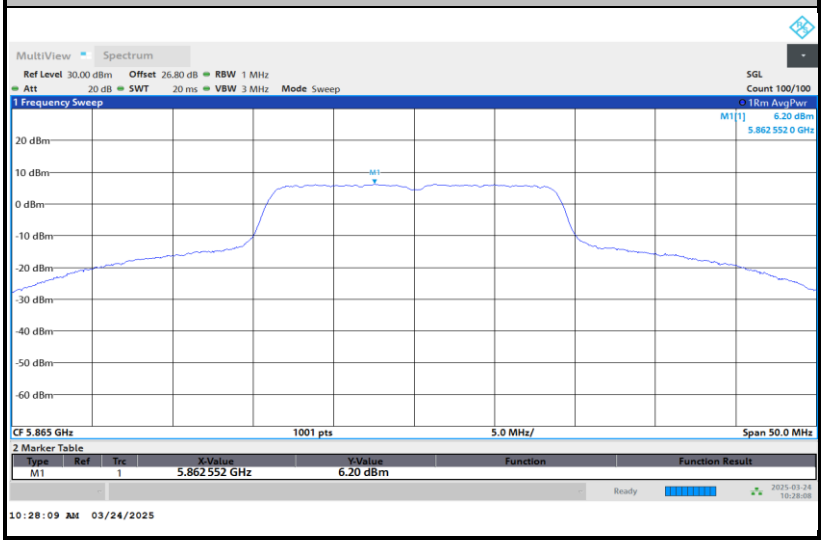
<802.11a>

Maximum Power Density Plot (dBm/MHz)



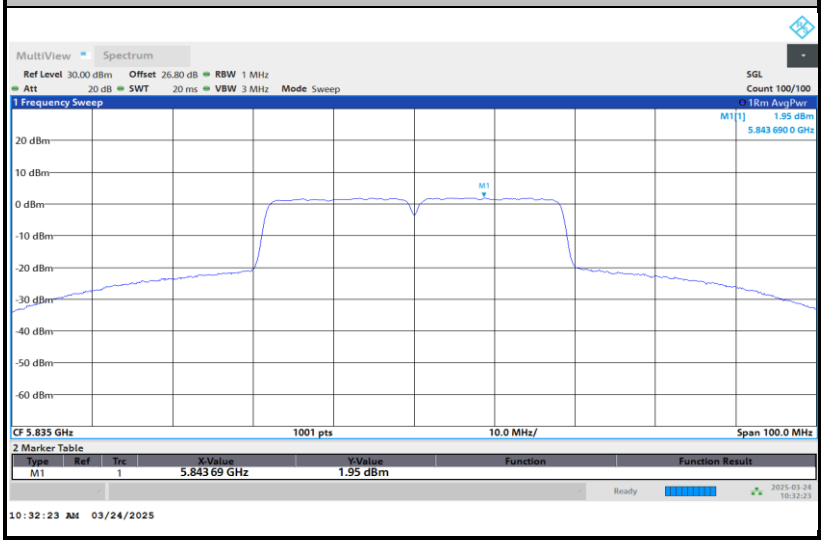
<802.11n HT20>

Maximum Power Density Plot (dBm/MHz)



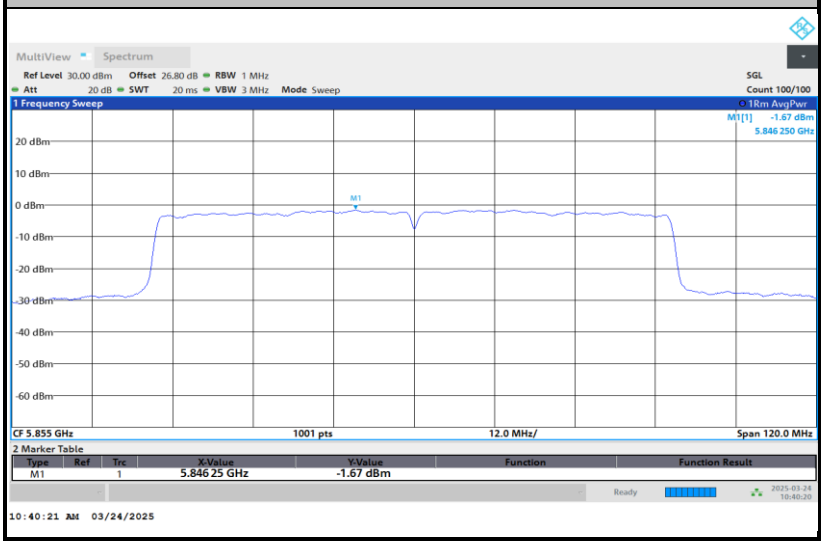
<802.11n HT40>

Maximum Power Density Plot (dBm/MHz)



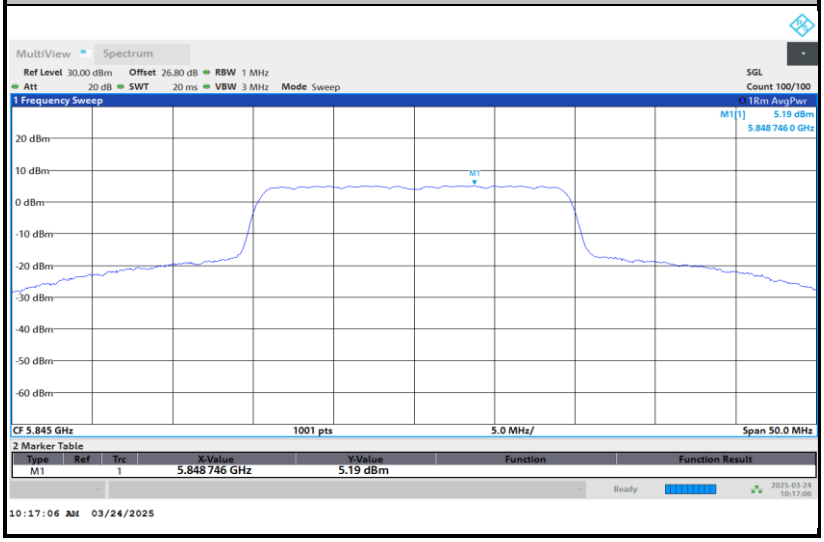
<802.11ac VHT80>

Maximum Power Density Plot (dBm/MHz)



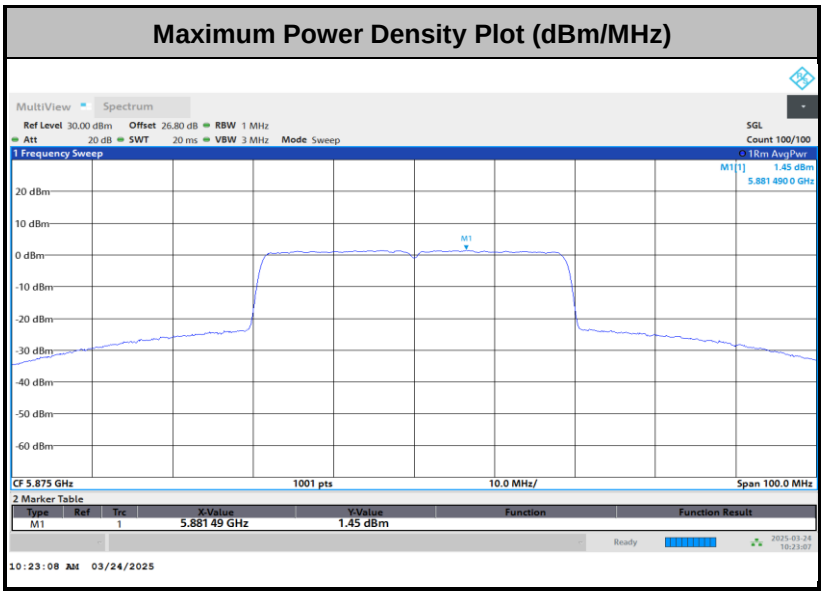
<802.11ax HE20>

Maximum Power Density Plot (dBm/MHz)



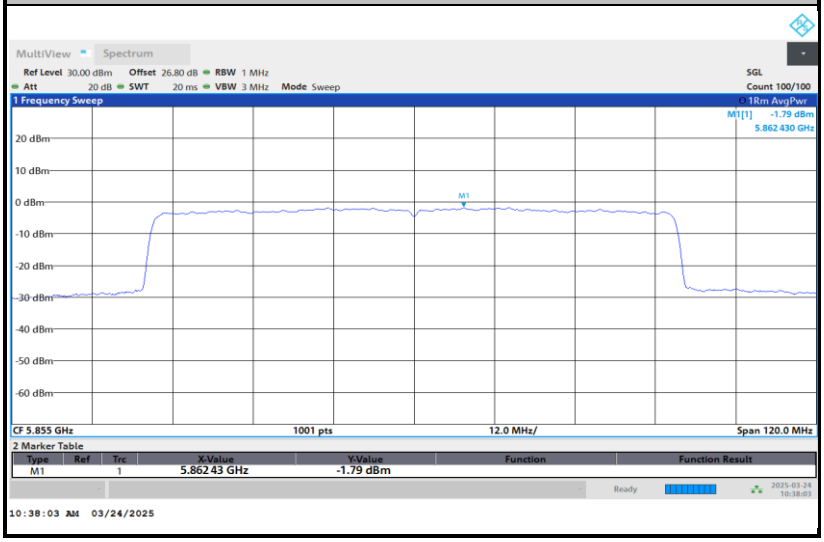
<802.11ax HE40>

Maximum Power Density Plot (dBm/MHz)



<802.11ax HE80>

Maximum Power Density Plot (dBm/MHz)

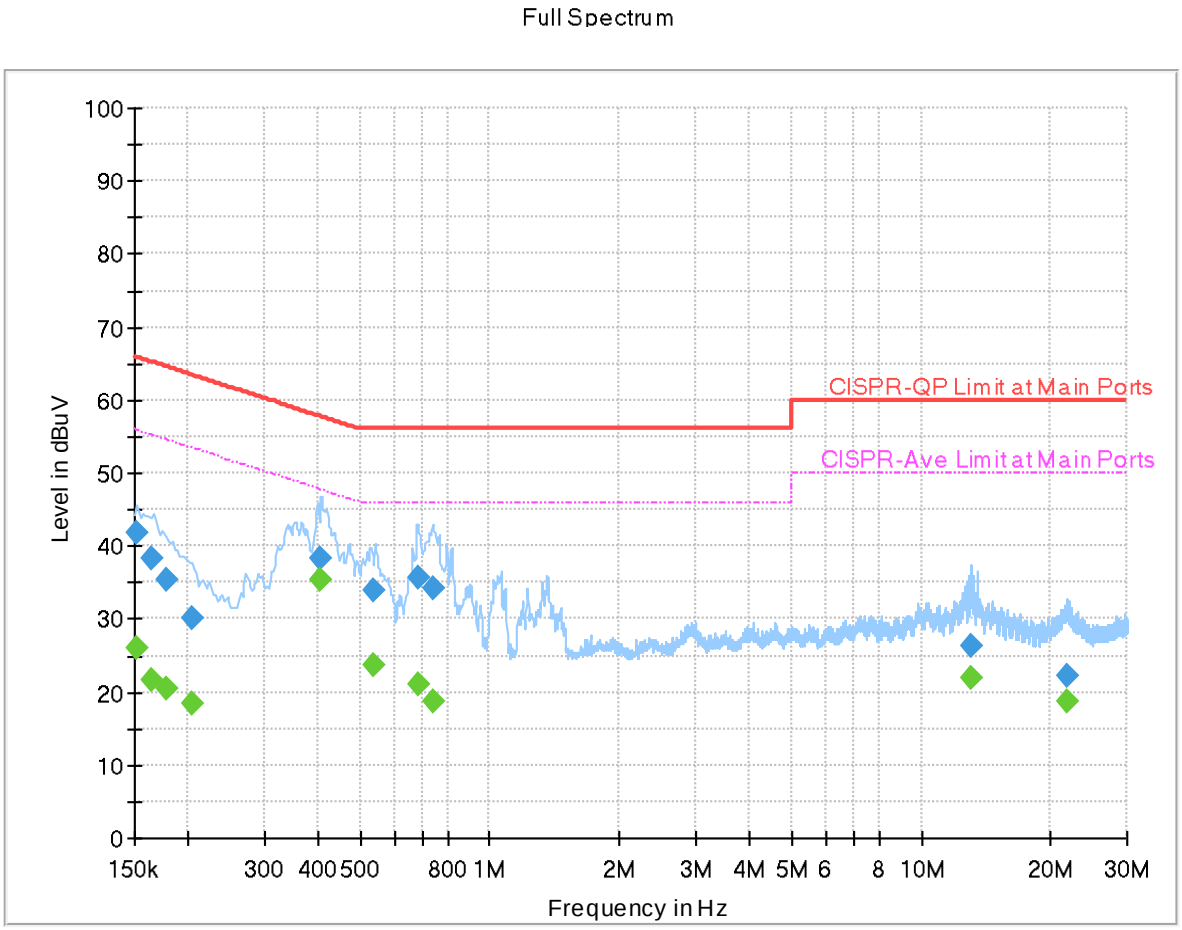


Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	21.3~22.4℃
		Relative Humidity :	53.9~64.4%

EUT Information

Report NO :	4D1913
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



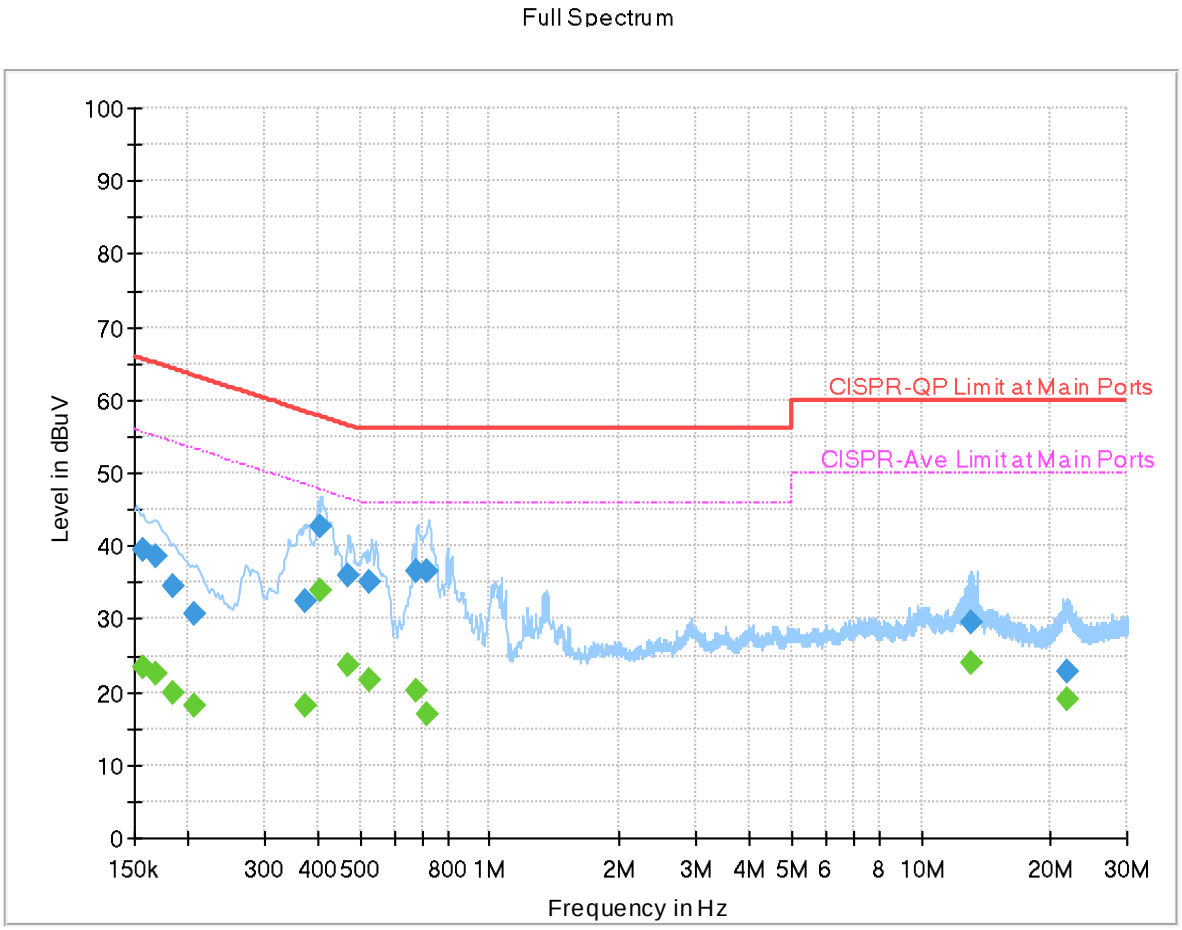
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.152363	---	26.01	55.87	29.86	L1	FLO	20.0
0.152363	41.70	---	65.87	24.17	L1	FLO	20.0
0.164400	---	21.66	55.24	33.58	L1	FLO	20.0
0.164400	38.31	---	65.24	26.93	L1	FLO	20.0
0.177450	---	20.37	54.60	34.23	L1	FLO	20.0
0.177450	35.32	---	64.60	29.28	L1	FLO	20.0
0.204360	---	18.39	53.43	35.04	L1	FLO	20.0
0.204360	30.02	---	63.43	33.41	L1	FLO	20.0
0.402000	---	35.36	47.81	12.45	L1	FLO	20.0
0.402000	38.34	---	57.81	19.47	L1	FLO	20.0
0.539250	---	23.58	46.00	22.42	L1	FLO	20.0
0.539250	33.79	---	56.00	22.21	L1	FLO	20.0
0.681900	---	21.00	46.00	25.00	L1	FLO	20.0
0.681900	35.65	---	56.00	20.35	L1	FLO	20.0
0.741750	---	18.72	46.00	27.28	L1	FLO	20.0
0.741750	34.33	---	56.00	21.67	L1	FLO	20.0
13.067250	---	22.05	50.00	27.95	L1	FLO	20.5
13.067250	26.19	---	60.00	33.81	L1	FLO	20.5
21.692760	---	18.78	50.00	31.22	L1	FLO	20.8

21.692760	**22.15**	**---**	**60.00**	**37.85**	**L1**	**FLO**	**20.8**

EUT Information

Report NO :	4D1913
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.156750	---	23.49	55.63	32.14	N	FLO	20.0
0.156750	39.47	---	65.63	26.16	N	FLO	20.0
0.168000	---	22.42	55.06	32.64	N	FLO	20.0
0.168000	38.52	---	65.06	26.54	N	FLO	20.0
0.185010	---	19.97	54.26	34.29	N	FLO	20.0
0.185010	34.39	---	64.26	29.87	N	FLO	20.0
0.205620	---	18.03	53.38	35.35	N	FLO	20.0
0.205620	30.61	---	63.38	32.77	N	FLO	20.0
0.375000	---	18.09	48.39	30.30	N	FLO	20.0
0.375000	32.55	---	58.39	25.84	N	FLO	20.0
0.404250	---	33.79	47.77	13.98	N	FLO	20.0
0.404250	42.78	---	57.77	14.99	N	FLO	20.0
0.467250	---	23.71	46.56	22.85	N	FLO	20.0
0.467250	35.94	---	56.56	20.62	N	FLO	20.0
0.528090	---	21.61	46.00	24.39	N	FLO	20.0
0.528090	35.09	---	56.00	20.91	N	FLO	20.0
0.678750	---	20.15	46.00	25.85	N	FLO	20.0
0.678750	36.53	---	56.00	19.47	N	FLO	20.0
0.718350	---	16.87	46.00	29.13	N	FLO	20.0

0.718350	36.57	---	56.00	19.43	N	FLO	20.0
13.050960	---	24.07	50.00	25.93	N	FLO	20.5
13.050960	29.41	---	60.00	30.59	N	FLO	20.5
21.727500	---	19.03	50.00	30.97	N	FLO	20.8
21.727500	22.89	---	60.00	37.11	N	FLO	20.8

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	**Temperature :**	18.4~25.2°C
		Relative Humidity :	47.6~63.3%

Note symbol

-L	**Low channel location**
-R	**High channel location**

C1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-4	5.85-5.895	802.11a	169	5845	6Mbps	-	-
Mode 2	U-NII-4	5.85-5.895	802.11a	173	5865	6Mbps	-	-
Mode 3	U-NII-4	5.85-5.895	802.11a	177	5885	6Mbps	-	-
Mode 4	U-NII-4	5.85-5.895	802.11n HT20	169	5845	MCS0	-	-
Mode 5	U-NII-4	5.85-5.895	802.11n HT20	173	5865	MCS0	-	-
Mode 6	U-NII-4	5.85-5.895	802.11n HT20	177	5885	MCS0	-	-
Mode 7	U-NII-4	5.85-5.895	802.11n HT40	167	5835	MCS0	-	-
Mode 8	U-NII-4	5.85-5.895	802.11n HT40	175	5875	MCS0	-	-
Mode 9	U-NII-4	5.85-5.895	802.11ac VHT80	171	5855	MCS0	-	-
Mode 10	U-NII-4	5.85-5.895	802.11ax HE20	169	5845	MCS0	Full RU	-
Mode 11	U-NII-4	5.85-5.895	802.11ax HE20	173	5865	MCS0	Full RU	-

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 12	U-NII-4	5.85-5.895	802.11ax HE20	177	5885	MCS0	Full RU	-
Mode 13	U-NII-4	5.85-5.895	802.11ax HE20	177	5885	MCS0	Partial RU 26/8	-
Mode 14	U-NII-4	5.85-5.895	802.11ax HE20	177	5885	MCS0	Partial RU 52/40	-
Mode 15	U-NII-4	5.85-5.895	802.11ax HE20	177	5885	MCS0	Partial RU 106/54	-
Mode 16	U-NII-4	5.85-5.895	802.11ax HE40	167	5835	MCS0	Full RU	-
Mode 17	U-NII-4	5.85-5.895	802.11ax HE40	175	5875	MCS0	Full RU	-
Mode 18	U-NII-4	5.85-5.895	802.11ax HE80	171	5855	MCS0	Full RU	-
Mode 19	U-NII-4	5.85-5.895	802.11ax HE80	171	5855	MCS0	Full RU	SHF
Mode 20	U-NII-4	5.85-5.895	802.11ax HE80	171	5855	MCS0	Full RU	LF

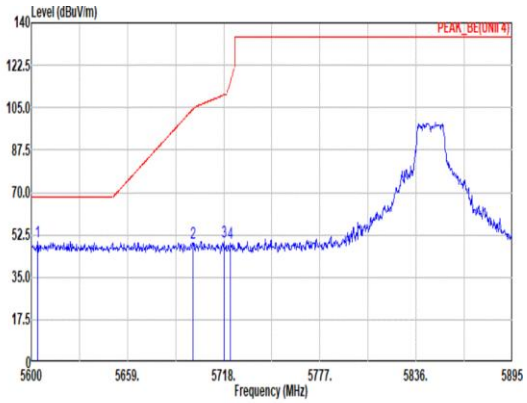
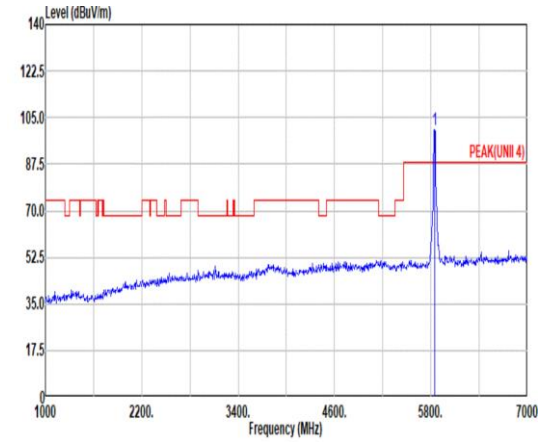
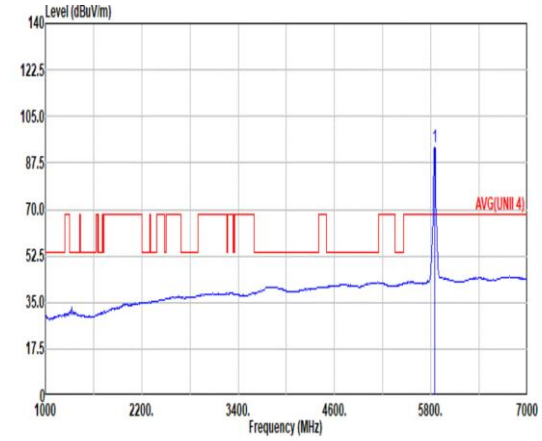
C2. Summary of each worse mode

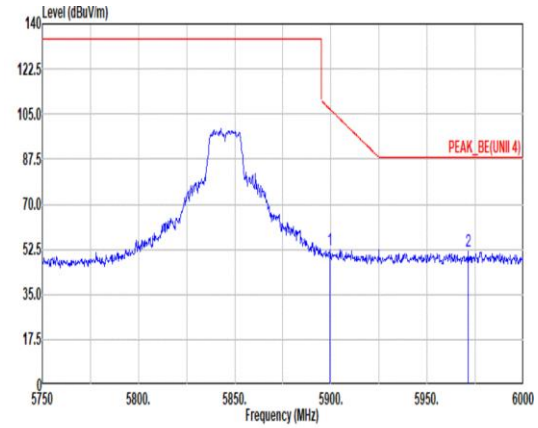
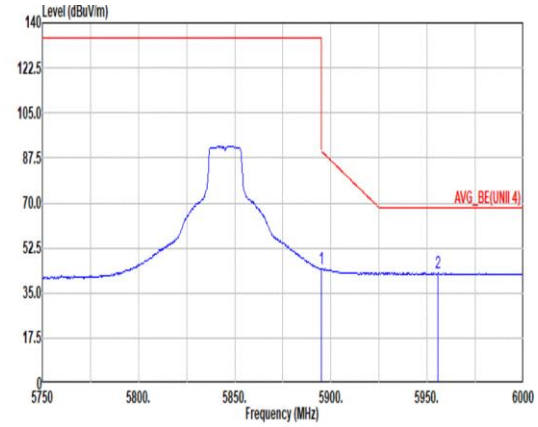
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11a	169	5603.84	49.79	68.20	-18.41	H	Peak	Pass	-	Band Edge
	802.11a	169	17535.00	50.23	68.20	-17.97	H	Peak	Pass	-	Harmonic
2	802.11a	173	5610.92	51.56	68.20	-16.64	V	Peak	Pass	-	Band Edge
	802.11a	173	17595.00	50.31	68.20	-17.89	H	Peak	Pass	-	Harmonic
3	802.11a	177	5895.25	73.52	90.02	-16.50	V	Avg.	Pass	-	Band Edge
	802.11a	177	17655.00	49.63	68.20	-18.57	H	Peak	Pass	-	Harmonic
4	802.11n HT20	169	5624.19	49.86	68.20	-18.34	V	Peak	Pass	-	Band Edge
	802.11n HT20	169	17535.00	50.72	68.20	-17.48	H	Peak	Pass	-	Harmonic
5	802.11n HT20	173	5612.10	50.26	68.20	-17.94	V	Peak	Pass	-	Band Edge
	802.11n HT20	173	17595.00	49.86	68.20	-18.34	V	Peak	Pass	-	Harmonic
6	802.11n HT20	177	5895.25	75.88	90.02	-14.14	V	Avg.	Pass	-	Band Edge

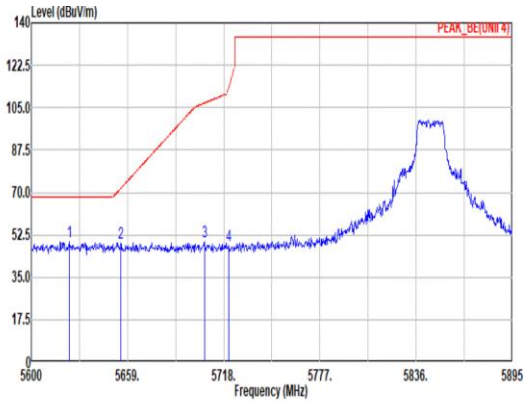
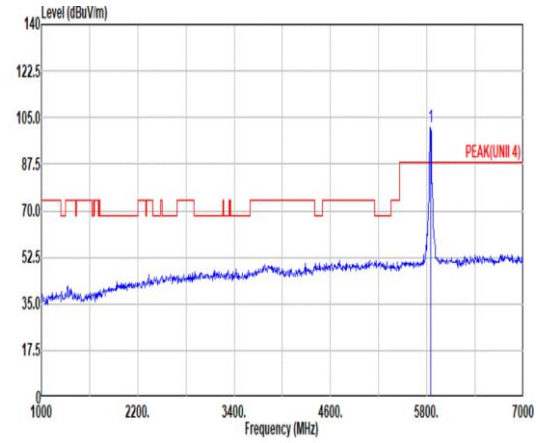
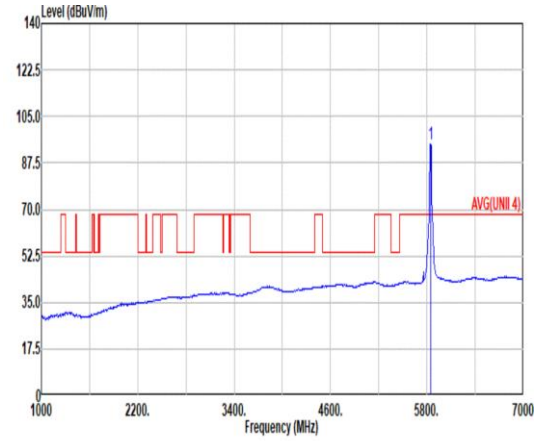
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
6	802.11n HT20	177	17655.00	50.02	68.20	-18.18	V	Peak	Pass	-	Harmonic
7	802.11n HT40	167	5623.90	51.36	68.20	-16.84	V	Peak	Pass	-	Band Edge
	802.11n HT40	167	17505.00	50.65	68.20	-17.55	V	Peak	Pass	-	Harmonic
8	802.11n HT40	175	5919.75	58.75	72.04	-13.29	H	Avg.	Pass	-	Band Edge
	802.11n HT40	175	17625.00	50.22	68.20	-17.98	H	Peak	Pass	-	Harmonic
9	802.11ac VHT80	171	5925.75	62.86	68.20	-5.34	V	Avg.	Pass	-	Band Edge
	802.11ac VHT80	171	17565.00	50.61	68.20	-17.59	V	Peak	Pass	-	Harmonic
10	802.11ax HE20	169	5628.32	50.36	68.20	-17.84	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	169	17535.00	50.26	68.20	-17.94	V	Peak	Pass	Full RU	Harmonic
11	802.11ax HE20	173	5625.08	50.16	68.20	-18.04	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	173	17595.00	50.02	68.20	-18.18	H	Peak	Pass	Full RU	Harmonic

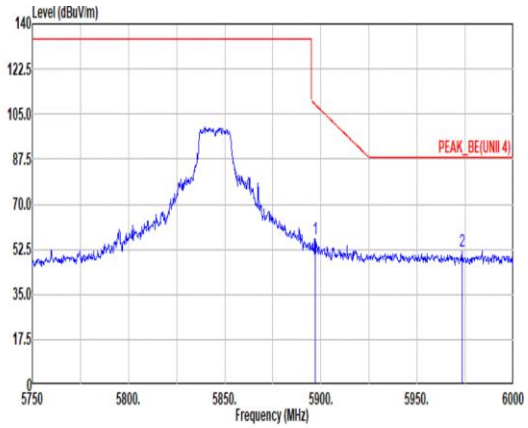
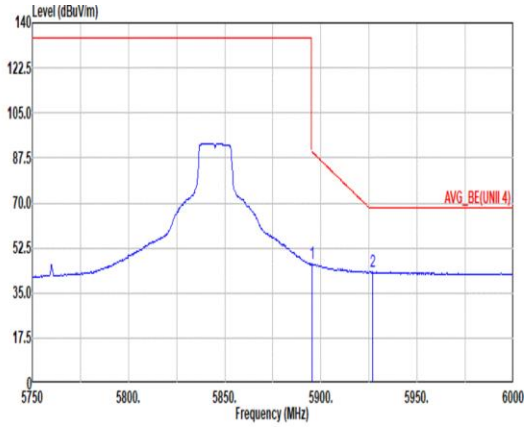
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
12	802.11ax HE20	177	5895.25	79.50	90.02	-10.52	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	177	17655.00	50.73	68.20	-17.47	H	Peak	Pass	Full RU	Harmonic
13	802.11ax HE20	177	5895.25	76.74	90.02	-13.28	V	Avg.	Pass	Partial RU 26/8	Band Edge
14	802.11ax HE20	177	5895.25	77.70	90.02	-12.32	V	Avg.	Pass	Partial RU 52/40	Band Edge
15	802.11ax HE20	177	5895.25	80.13	90.02	-9.89	V	Avg.	Pass	Partial RU 106/54	Band Edge
16	802.11ax HE40	167	5605.61	50.11	68.20	-18.09	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	167	17505.00	50.63	68.20	-17.57	V	Peak	Pass	Full RU	Harmonic
17	802.11ax HE40	175	5921.50	60.06	70.76	-10.70	V	Avg.	Pass	Full RU	Band Edge

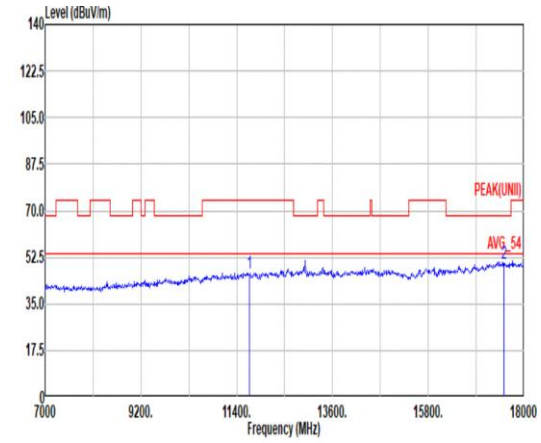
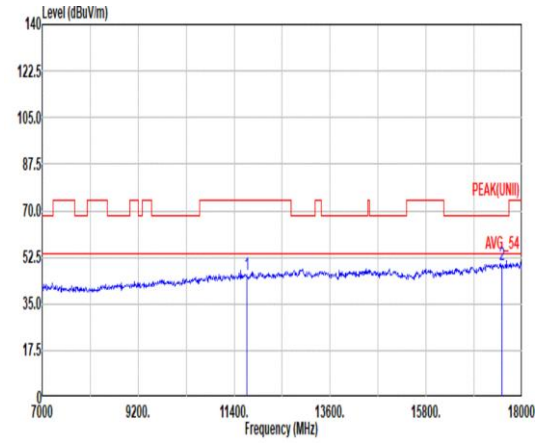
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
17	802.11ax HE40	175	17625.00	50.18	68.20	-18.02	V	Peak	Pass	Full RU	Harmonic
18	802.11ax HE80	171	5926.00	63.14	68.20	-5.06	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	171	17565.00	51.70	68.20	-16.50	V	Peak	Pass	Full RU	Harmonic
19	802.11ax HE80	171	39340.00	45.21	74.00	-28.79	H	Peak	Pass	Full RU	SHF
20	802.11ax HE80	171	30.00	31.94	40.00	-8.06	V	Peak	Pass	Full RU	LF

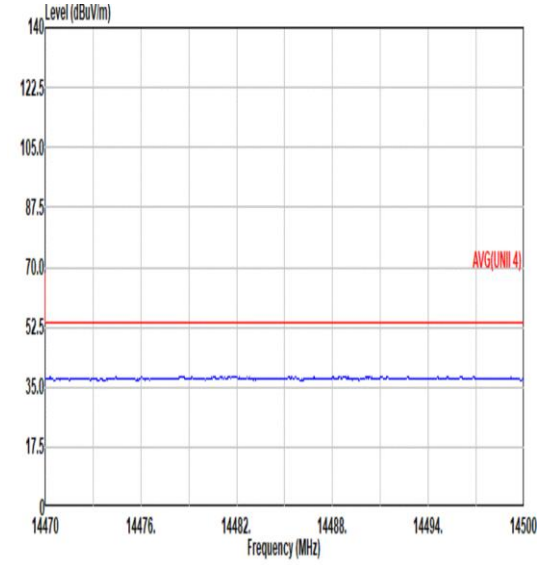
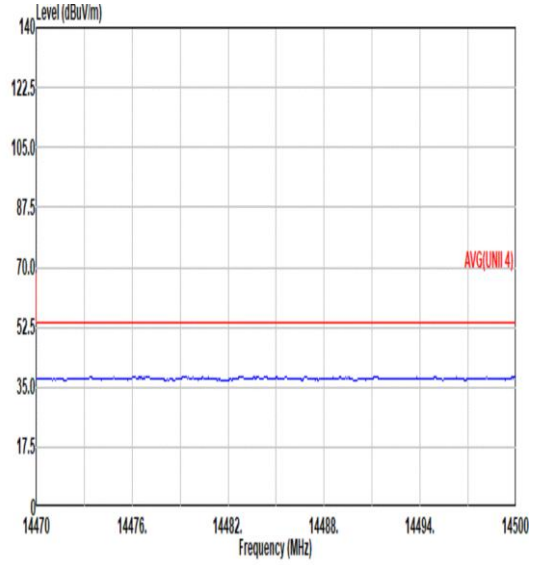
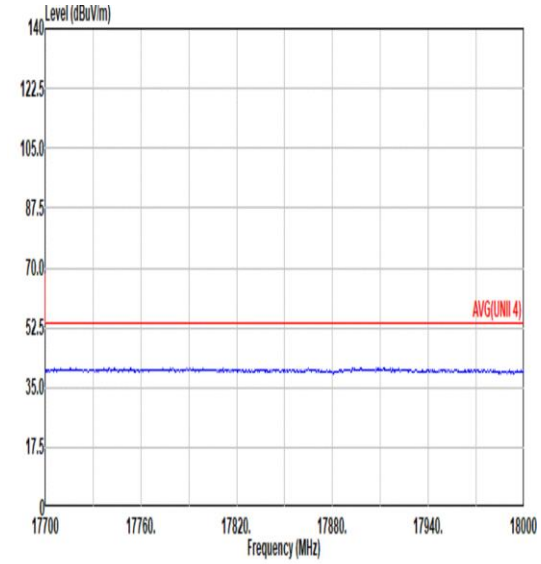
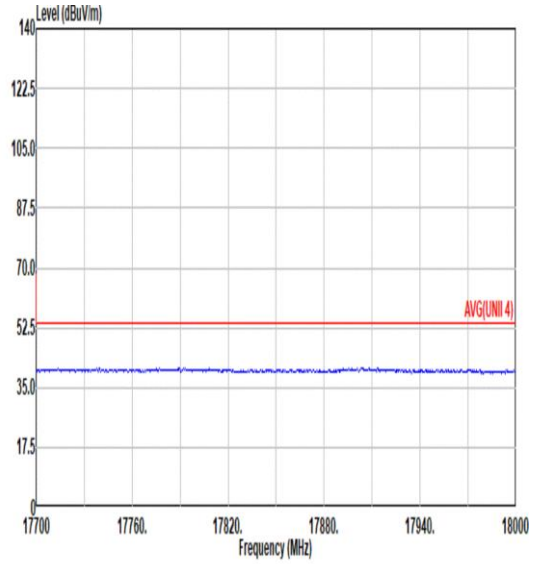
Mode	1	
	Band Edge - L	
	U-NII-4_5.85-5.895_802.11a_CH169_5845MHz	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5603.84 49.79 68.20 -18.41 36.71 34.81 12.95 34.68 0.00 387 163 PEAK 2 5699.12 49.35 104.55 -55.20 36.05 35.00 13.03 34.73 0.00 387 163 PEAK 3 5718.00 49.52 110.24 -60.72 36.21 35.00 13.05 34.74 0.00 387 163 PEAK 4 5722.13 48.92 115.66 -66.74 35.61 35.00 13.05 34.74 0.00 387 163 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5845.00 100.35 ------ ------ 86.99 35.00 13.17 34.81 0.00 387 163 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 5845.00 93.34 ------ ------ 79.96 35.00 13.19 34.81 0.00 387 163 AVERAGE

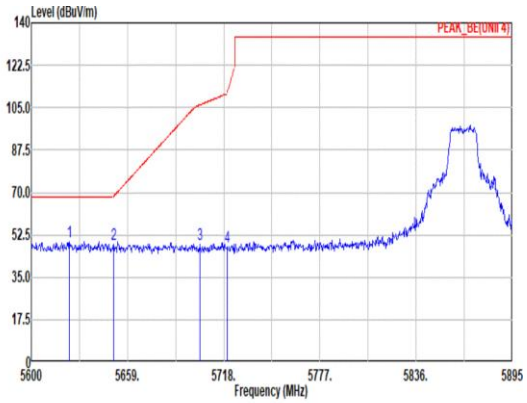
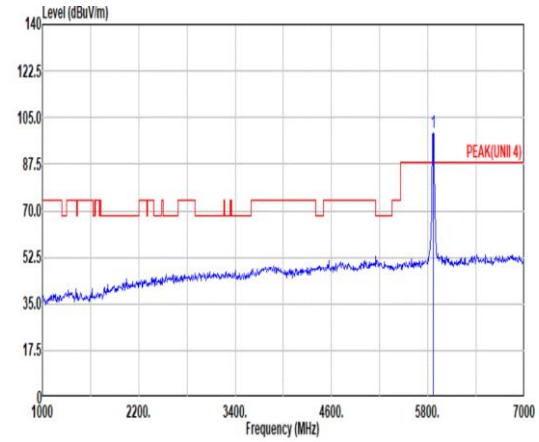
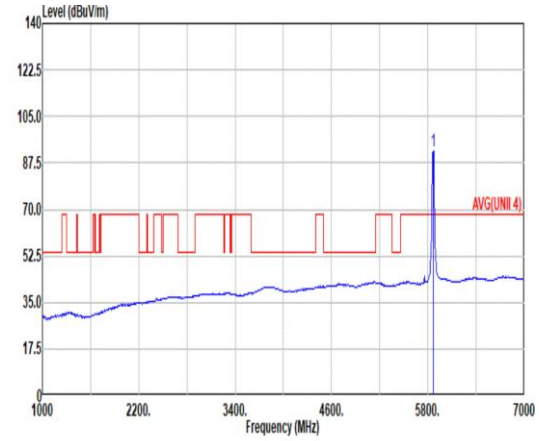
Mode	1	
	Band Edge - R	
	U-NII-4_5.85-5.895_802.11a_CH169_5845MHz	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5899.50 52.51 106.89 -54.38 38.88 35.20 13.27 34.84 0.00 387 163 PEAK 2 5971.25 52.02 88.20 -36.18 38.28 35.24 13.38 34.88 0.00 387 163 PEAK	Blank
Avg	 Site : 03CH07-HY Condition: AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 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 5895.00 44.49 90.20 -45.71 30.89 35.18 13.26 34.84 0.00 387 163 AVERAGE 2 5955.75 42.91 68.20 -25.29 29.23 35.21 13.35 34.88 0.00 387 163 AVERAGE	Blank

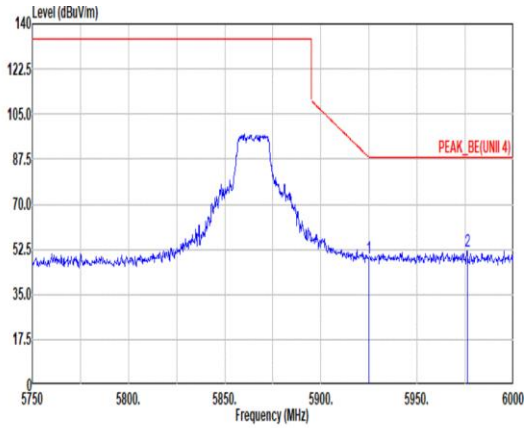
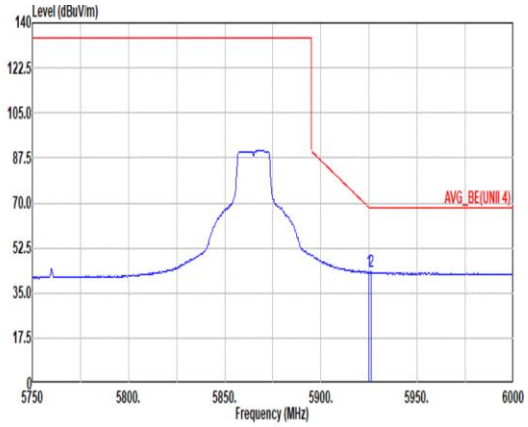
Mode	1	
	Band Edge - L	
	U-NII-4_5.85-5.895_802.11a_CH169_5845MHz	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5623.31 49.53 68.20 -18.67 36.40 34.85 12.97 34.69 0.00 103 242 PEAK 2 5654.87 49.22 71.82 -22.60 36.02 34.91 13.00 34.71 0.00 103 242 PEAK 3 5706.20 49.49 106.94 -57.45 36.19 35.00 13.04 34.74 0.00 103 242 PEAK 4 5721.25 48.11 113.64 -65.53 34.80 35.00 13.05 34.74 0.00 103 242 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5845.00 101.22 ------ ------ 87.86 35.00 13.17 34.81 0.00 103 242 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 5845.00 94.55 ------ ------ 81.17 35.00 13.19 34.81 0.00 103 242 AVERAGE

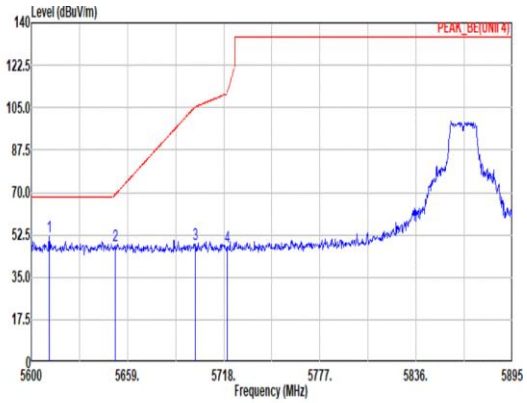
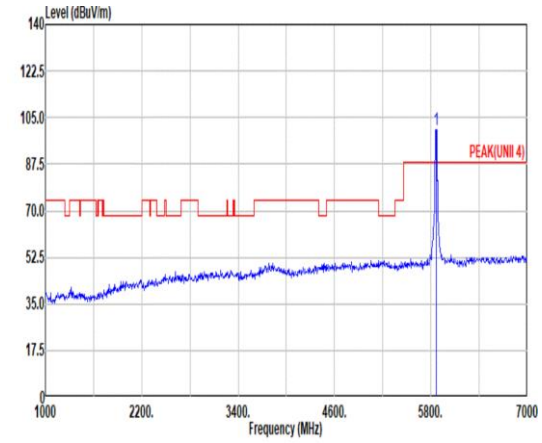
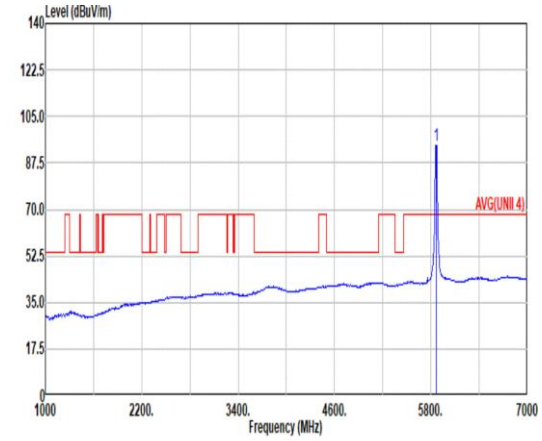
Mode	1	
	Band Edge - R	
	U-NII-4_5.85-5.895_802.11a_CH169_5845MHz	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5897.00 56.66 108.73 -52.07 43.04 35.19 13.27 34.84 0.00 103 242 PEAK 2 5973.25 51.89 88.20 -36.31 38.15 35.25 13.38 34.89 0.00 103 242 PEAK	Blank
Avg	 Site : 03CH07-HY Condition: AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 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 5895.50 46.24 89.83 -43.59 32.64 35.18 13.26 34.84 0.00 103 242 AVERAGE 2 5926.75 43.35 68.20 -24.85 29.70 35.20 13.31 34.86 0.00 103 242 AVERAGE	Blank

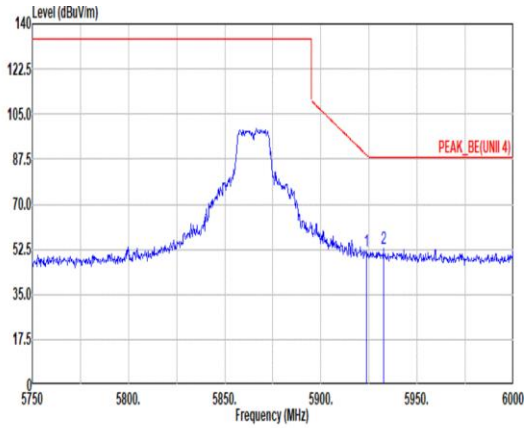
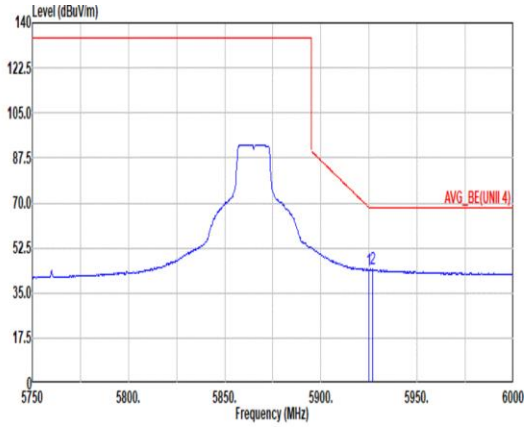
Mode	1	
	Harmonic	
	U-NII-4_5.85-5.895_802.11a_CH169_5845MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11690.00 46.39 74.00 -27.61 44.13 38.58 19.11 56.64 1.21 -- -- PEAK 2 17535.00 50.23 68.20 -17.97 40.18 41.43 22.79 55.53 1.36 -- -- PEAK	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 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 11690.00 46.09 74.00 -27.91 43.83 38.58 19.11 56.64 1.21 -- -- PEAK 2 17535.00 49.87 68.20 -18.33 39.82 41.43 22.79 55.53 1.36 -- -- PEAK

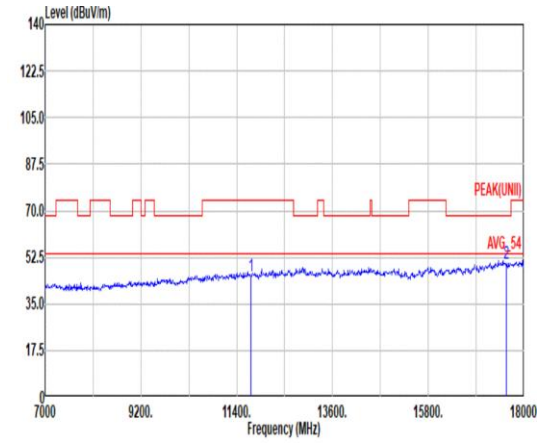
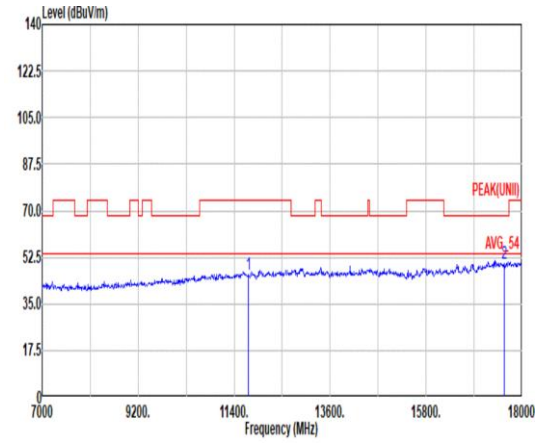
Mode	1	
	Harmonic	
	U-NII-4_5.85-5.895_802.11a_CH169_5845MHz	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL
17.7G ~18G Avg	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL

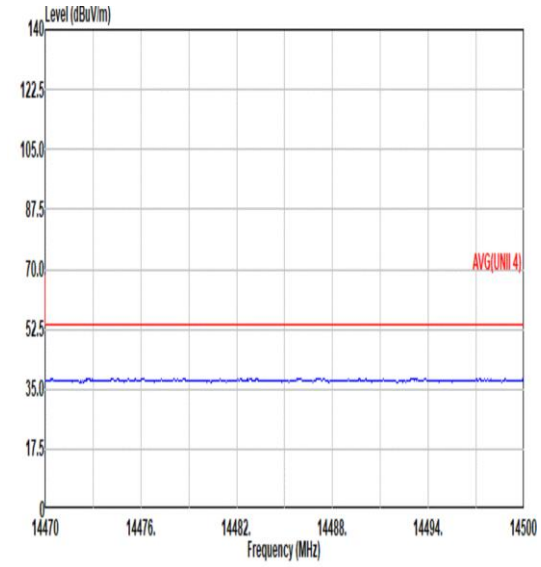
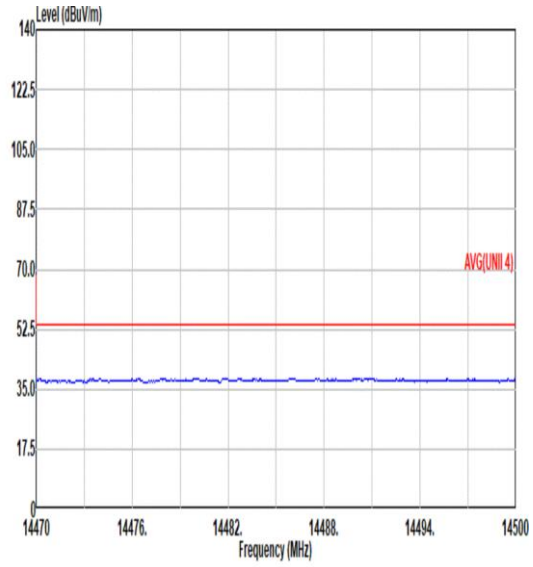
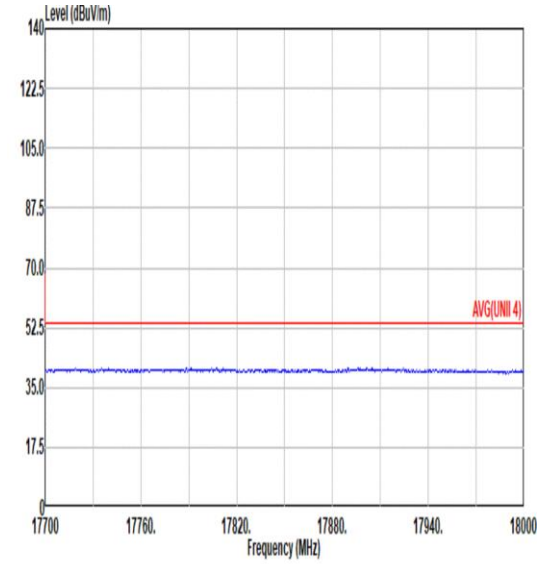
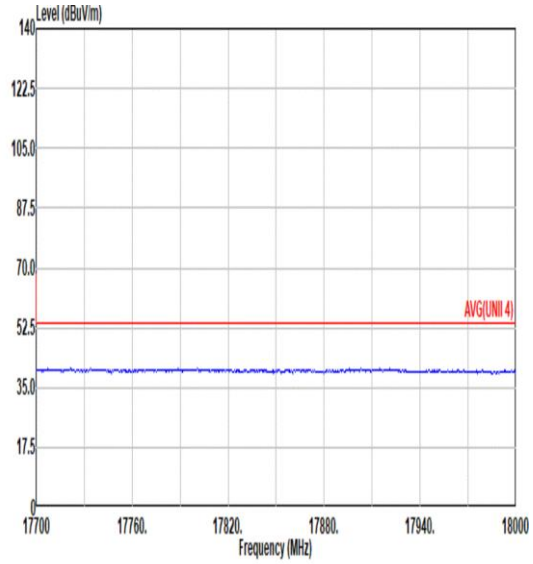
Mode	2	
	Band Edge - L	
	U-NII-4_5.85-5.895_802.11a_CH173_5865MHz	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5623.31 49.87 68.20 -18.33 36.74 34.85 12.97 34.69 0.00 400 178 PEAK 2 5650.74 48.55 68.75 -20.20 35.36 34.90 12.99 34.70 0.00 400 178 PEAK 3 5703.25 48.63 106.11 -57.48 35.32 35.00 13.04 34.73 0.00 400 178 PEAK 4 5720.07 47.41 110.95 -63.54 34.10 35.00 13.05 34.74 0.00 400 178 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5865.00 99.07 ------ ------ 85.61 35.06 13.22 34.82 0.00 400 178 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 5865.00 91.88 ------ ------ 78.42 35.06 13.22 34.82 0.00 400 178 AVERAGE

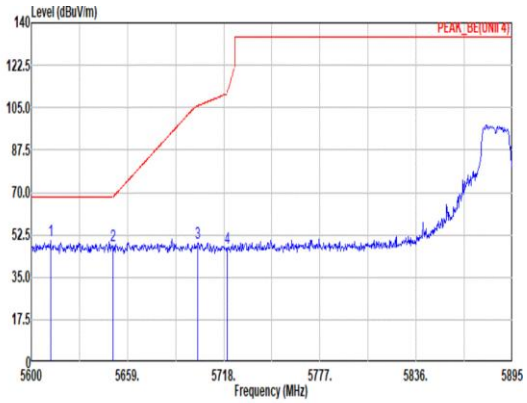
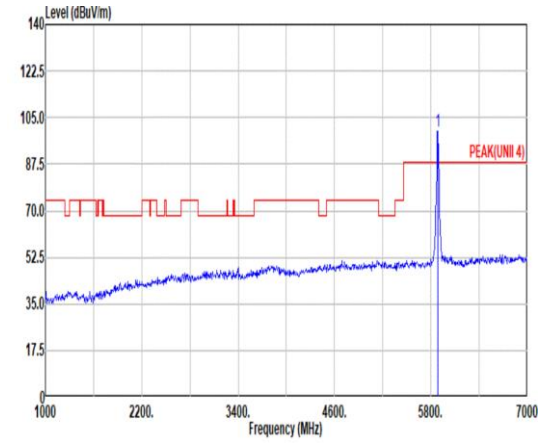
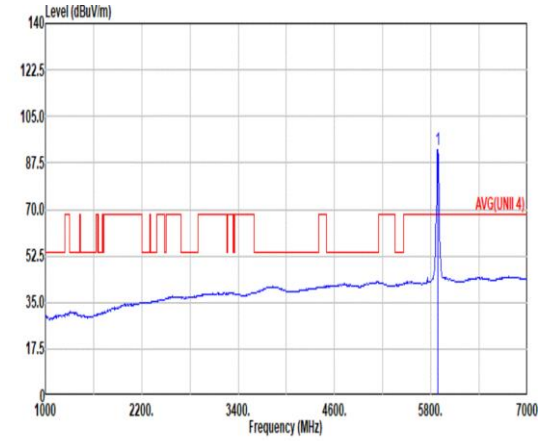
Mode	2	
	Band Edge - R	
	U-NII-4_5.85-5.895_802.11a_CH173_5865MHz	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5925.00 49.31 88.20 -38.89 35.66 35.20 13.31 34.86 0.00 400 178 PEAK 2 5976.00 51.97 88.20 -36.23 38.23 35.25 13.38 34.89 0.00 400 178 PEAK	Blank
Avg	 Site : 03CH07-HY Condition: AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5925.00 43.06 68.20 -25.14 29.41 35.20 13.31 34.86 0.00 400 178 AVERAGE 2 5926.00 43.09 68.20 -25.11 29.44 35.20 13.31 34.86 0.00 400 178 AVERAGE	Blank

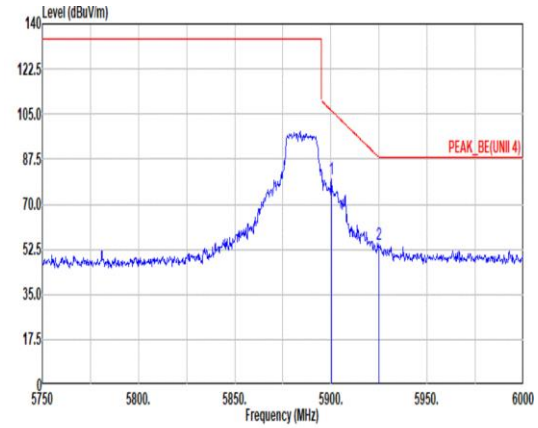
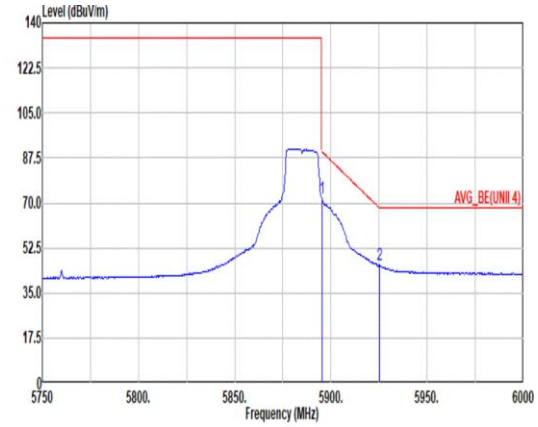
Mode	2	
	Band Edge - L	
	U-NII-4_5.85-5.895_802.11a_CH173_5865MHz	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5610.92 51.56 68.20 -16.64 38.46 34.82 12.96 34.68 0.00 100 240 PEAK 2 5651.33 47.89 69.19 -21.30 34.70 34.90 12.99 34.70 0.00 100 240 PEAK 3 5700.60 48.76 105.37 -56.61 35.45 35.00 13.04 34.73 0.00 100 240 PEAK 4 5720.07 47.58 110.95 -63.37 34.27 35.00 13.05 34.74 0.00 100 240 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5865.00 100.51 ------ ------ 87.08 35.04 13.21 34.82 0.00 100 240 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 5865.00 94.15 ------ ------ 80.69 35.06 13.22 34.82 0.00 100 240 AVERAGE

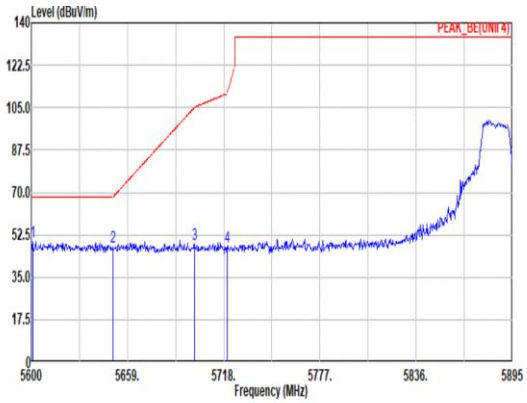
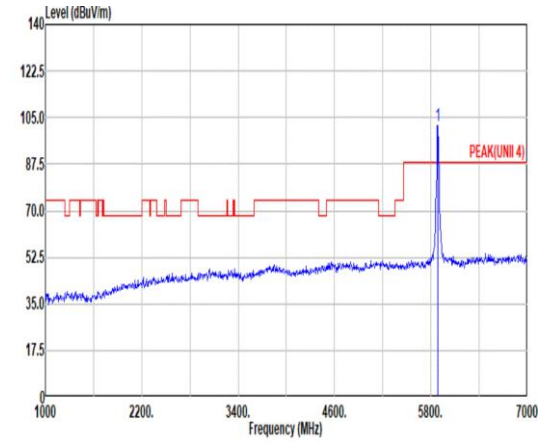
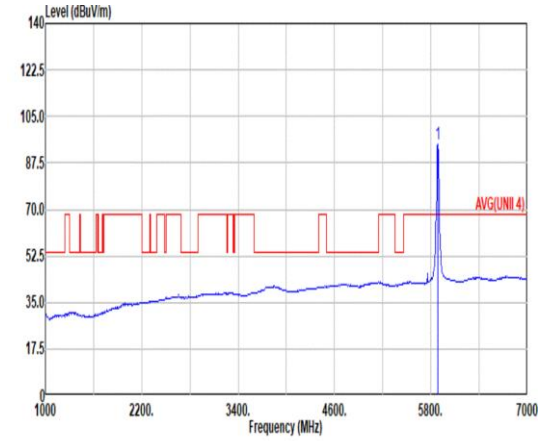
Mode	2	
	Band Edge - R	
	U-NII-4_5.85-5.895_802.11a_CH173_5865MHz	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5923.50 51.75 89.30 -37.55 38.10 35.20 13.31 34.86 0.00 100 240 PEAK 2 5932.50 52.62 88.20 -35.58 38.96 35.20 13.32 34.86 0.00 100 240 PEAK	Blank
Avg	 Site : 03CH07-HY Condition: AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5924.75 44.10 68.38 -24.28 30.45 35.20 13.31 34.86 0.00 100 240 AVERAGE 2 5927.00 44.14 68.20 -24.06 30.49 35.20 13.31 34.86 0.00 100 240 AVERAGE	Blank

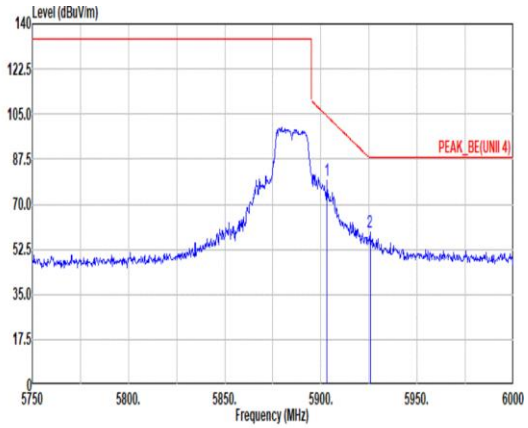
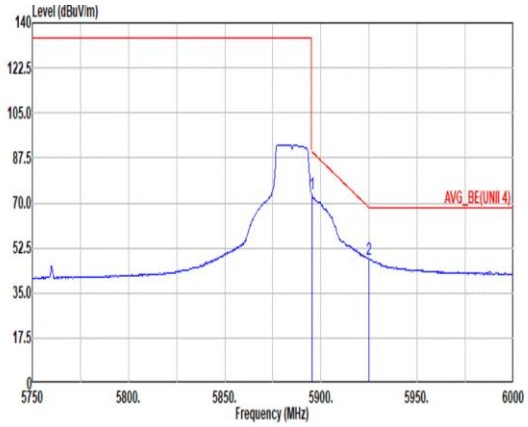
Mode	2	
	Harmonic	
	U-NII-4_5.85-5.895_802.11a_CH173_5865MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11730.00 45.51 74.00 -28.49 43.12 38.60 19.14 56.57 1.22 -- -- PEAK 2 17595.00 50.31 68.20 -17.89 40.00 41.58 22.83 55.47 1.37 -- -- PEAK	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 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 11730.00 46.16 74.00 -27.84 43.77 38.60 19.14 56.57 1.22 -- -- PEAK 2 17595.00 50.08 68.20 -18.12 39.77 41.58 22.83 55.47 1.37 -- -- PEAK

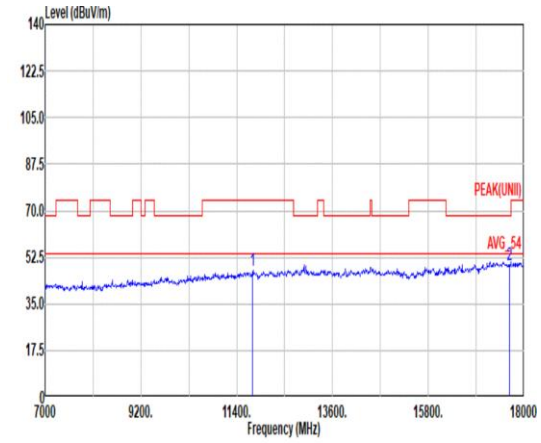
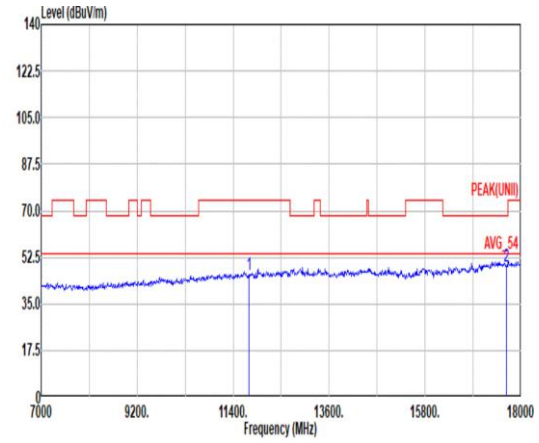
Mode	2	
	Harmonic	
	U-NII-4_5.85-5.895_802.11a_CH173_5865MHz	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL
17.7G ~18G Avg	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL

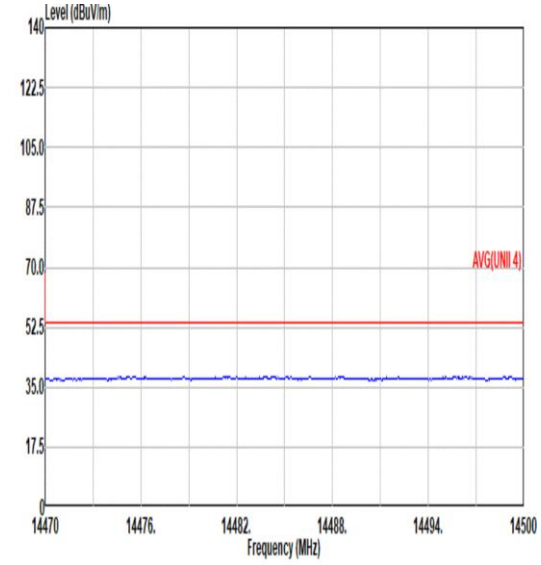
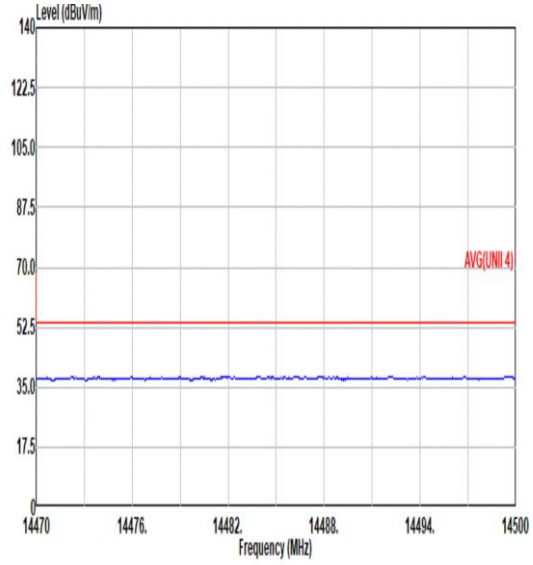
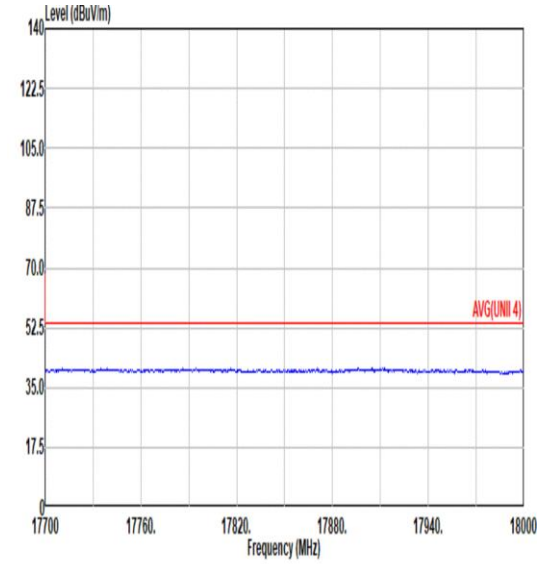
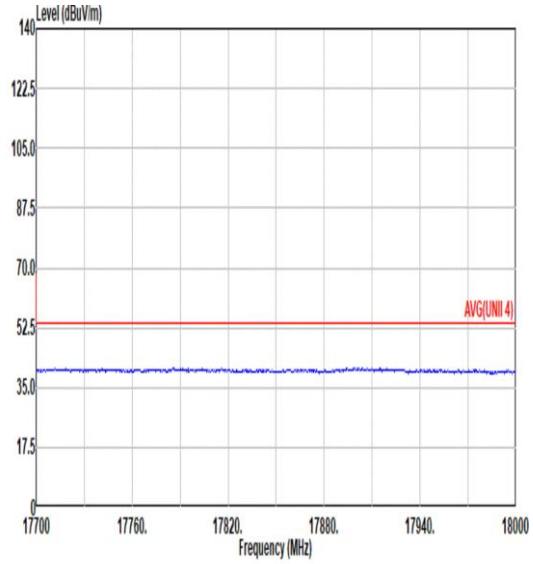
Mode	3	
	Band Edge - L	
	U-NII-4_5.85-5.895_802.11a_CH177_5885MHz	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5611.80 49.98 68.20 -18.22 36.88 34.82 12.96 34.68 0.00 400 173 PEAK 2 5650.15 48.13 68.31 -20.18 34.94 34.90 12.99 34.70 0.00 400 173 PEAK 3 5702.07 49.19 105.78 -56.59 35.88 35.00 13.04 34.73 0.00 400 173 PEAK 4 5720.07 46.78 110.95 -64.17 33.47 35.00 13.05 34.74 0.00 400 173 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 5885.00 100.06 ------ ------ 86.51 35.14 13.25 34.84 0.00 400 173 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 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 5885.00 92.44 ------ ------ 78.89 35.14 13.25 34.84 0.00 400 173 AVERAGE

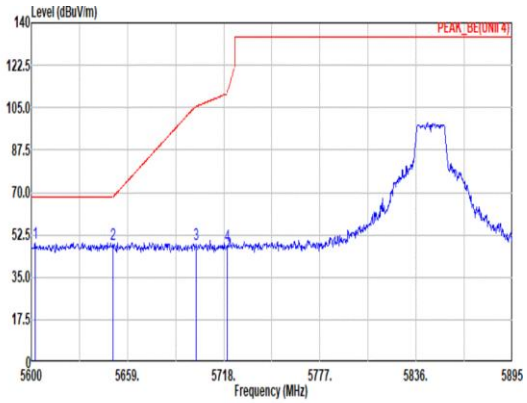
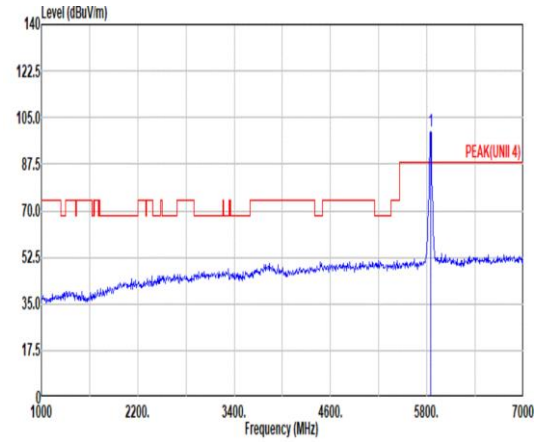
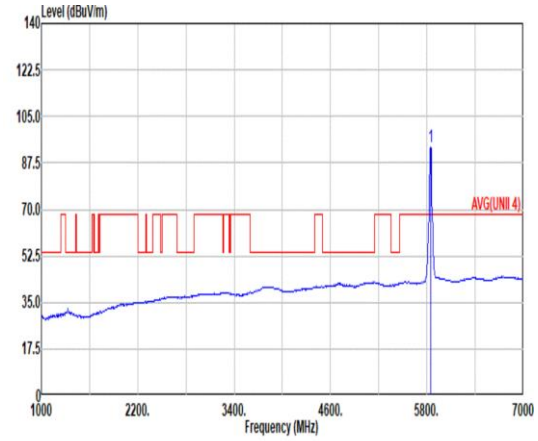
Mode	3	
	Band Edge - R	
	U-NII-4_5.85-5.895_802.11a_CH177_5885MHz	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5900.25 79.61 106.34 -26.73 65.98 35.20 13.27 34.84 0.00 400 173 PEAK 2 5925.00 54.16 88.20 -34.04 40.51 35.20 13.31 34.86 0.00 400 173 PEAK	Blank
Avg	 Site : 03CH07-HY Condition: AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5895.25 71.71 90.02 -18.31 58.11 35.18 13.26 34.84 0.00 400 173 AVERAGE 2 5925.25 45.81 68.20 -22.39 32.16 35.20 13.31 34.86 0.00 400 173 AVERAGE	Blank

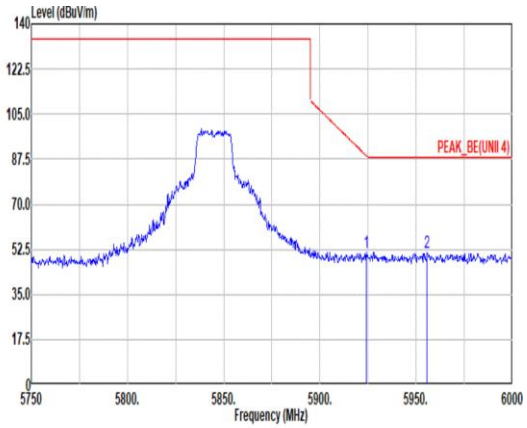
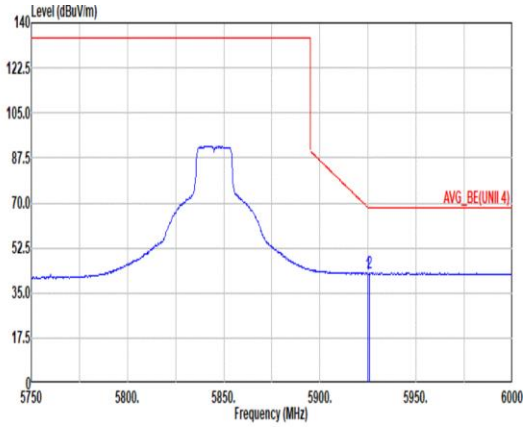
Mode	3	
	Band Edge - L	
	U-NII-4_5.85-5.895_802.11a_CH177_5885MHz	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5600.89 49.77 68.20 -18.43 36.70 34.80 12.95 34.68 0.00 103 242 PEAK 2 5650.15 47.53 68.31 -20.78 34.34 34.90 12.99 34.70 0.00 103 242 PEAK 3 5700.01 48.71 105.20 -56.49 35.41 35.00 13.03 34.73 0.00 103 242 PEAK 4 5720.07 47.39 110.95 -63.56 34.08 35.00 13.05 34.74 0.00 103 242 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5885.00 101.90 ------ ------ 88.38 35.11 13.24 34.83 0.00 103 242 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 5885.00 94.30 ------ ------ 80.75 35.14 13.25 34.84 0.00 103 242 AVERAGE

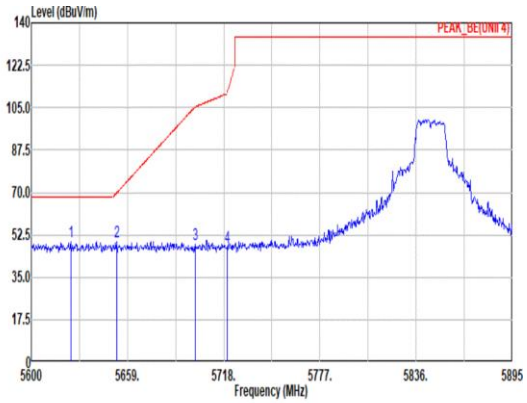
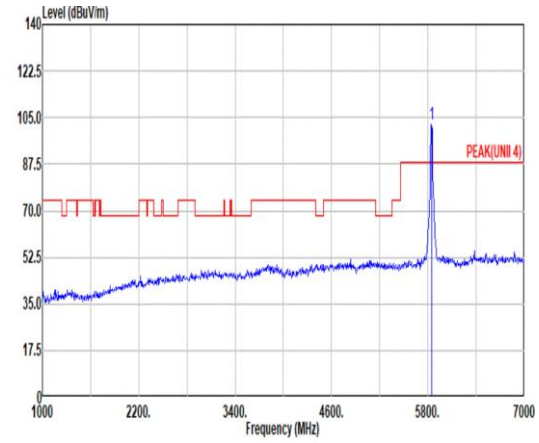
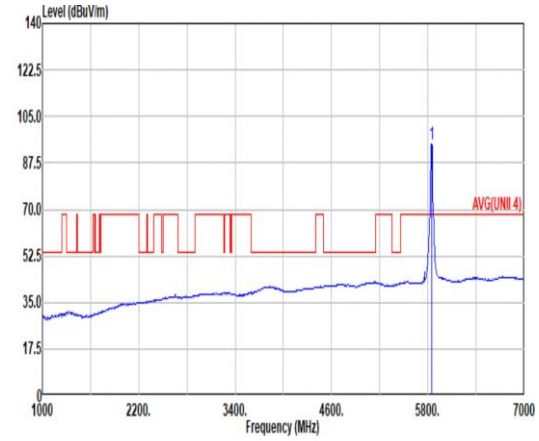
Mode	3	
	Band Edge - R	
	U-NII-4_5.85-5.895_802.11a_CH177_5885MHz	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5903.25 79.14 104.14 -25.00 65.52 35.20 13.27 34.85 0.00 103 242 PEAK 2 5925.50 58.92 88.20 -29.28 45.27 35.20 13.31 34.86 0.00 103 242 PEAK	Blank
Avg	 Site : 03CH07-HY Condition: AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 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 5895.25 73.52 90.02 -16.50 59.92 35.18 13.26 34.84 0.00 103 242 AVERAGE 2 5925.00 48.23 68.20 -19.97 34.58 35.20 13.31 34.86 0.00 103 242 AVERAGE	Blank

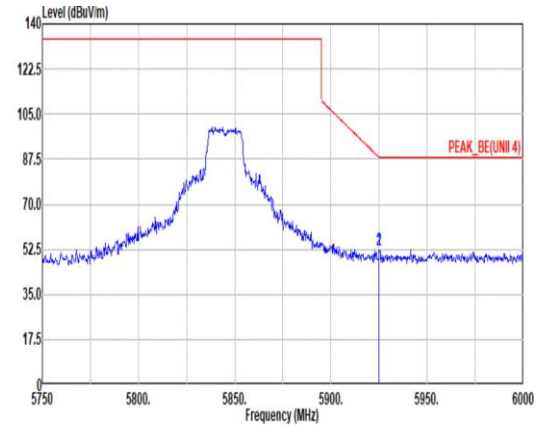
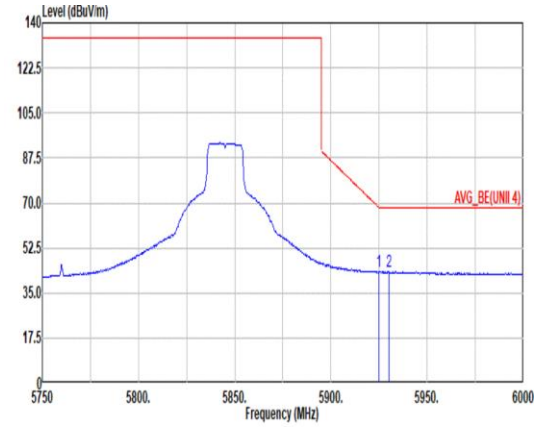
Mode	3	
	Harmonic	
	U-NII-4_5.85-5.895_802.11a_CH177_5885MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11770.00 47.46 74.00 -26.54 45.01 38.56 19.17 56.50 1.22 -- -- PEAK 2 17655.00 49.63 68.20 -18.57 39.39 41.40 22.88 55.41 1.37 -- -- PEAK	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 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 11770.00 46.15 74.00 -27.85 43.70 38.56 19.17 56.50 1.22 -- -- PEAK 2 17655.00 49.28 68.20 -18.92 39.04 41.40 22.88 55.41 1.37 -- -- PEAK

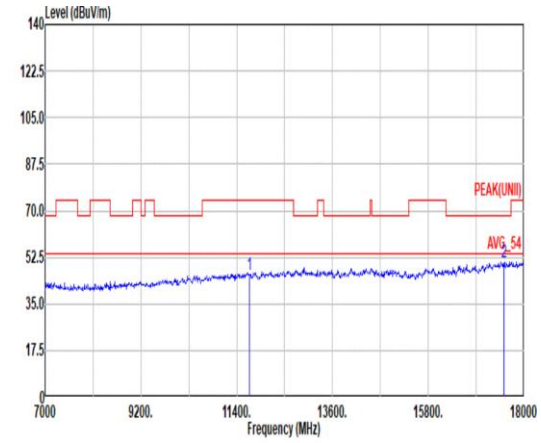
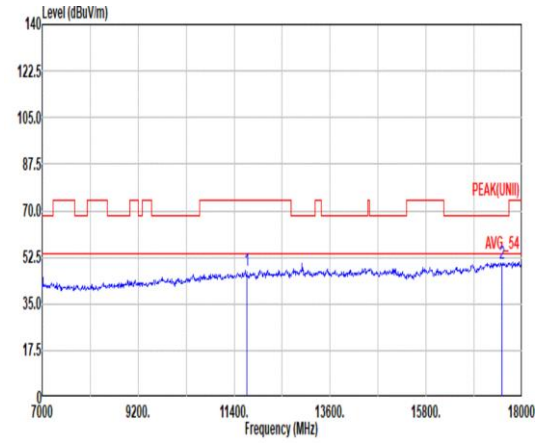
Mode	3	
	Harmonic	
	U-NII-4_5.85-5.895_802.11a_CH177_5885MHz	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL
17.7G ~18G Avg	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL

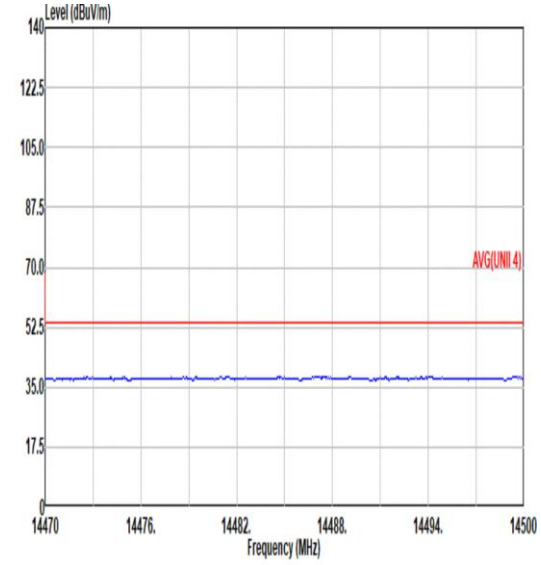
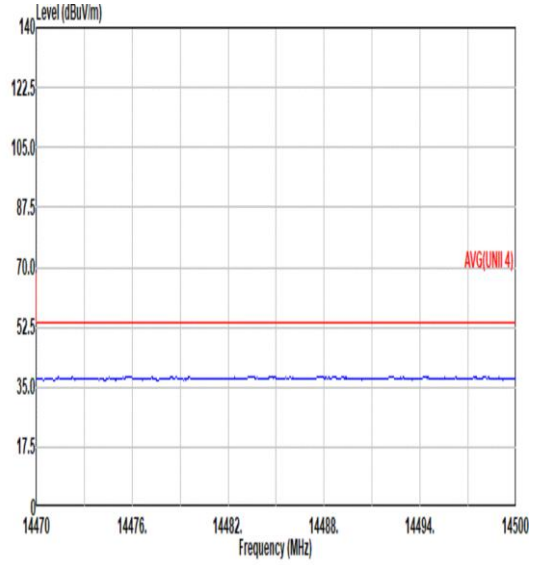
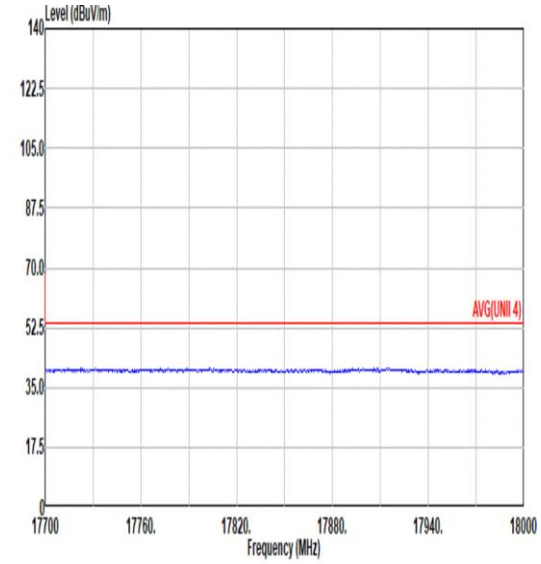
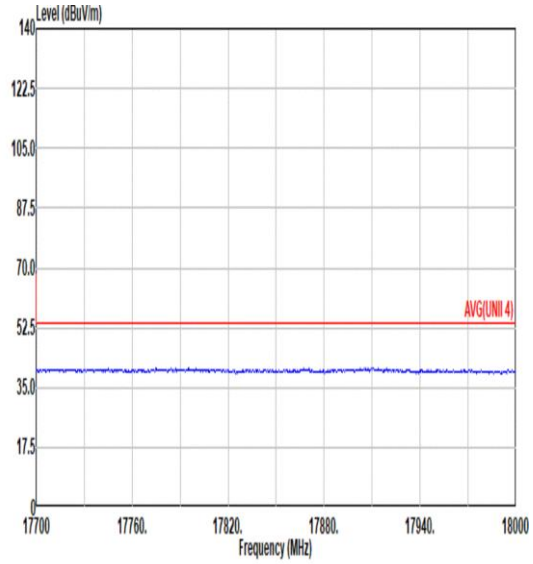
Mode	4	
	Band Edge - L	
	U-NII-4_5.85-5.895_802.11n HT20_CH169_5845MHz	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5602.36 49.14 68.20 -19.06 36.07 34.80 12.95 34.68 0.00 387 163 PEAK 2 5650.15 48.52 68.31 -19.79 35.33 34.90 12.99 34.70 0.00 387 163 PEAK 3 5701.19 48.56 105.53 -56.97 35.25 35.00 13.04 34.73 0.00 387 163 PEAK 4 5720.07 48.00 110.95 -62.95 34.69 35.00 13.05 34.74 0.00 387 163 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5845.00 99.94 ------ ------ 86.57 35.00 13.18 34.81 0.00 387 163 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 5845.00 93.29 ------ ------ 79.91 35.00 13.19 34.81 0.00 387 163 AVERAGE

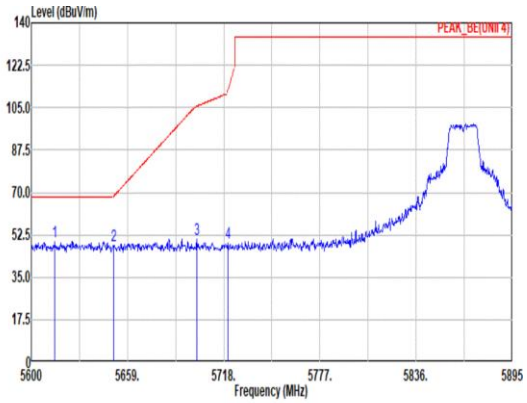
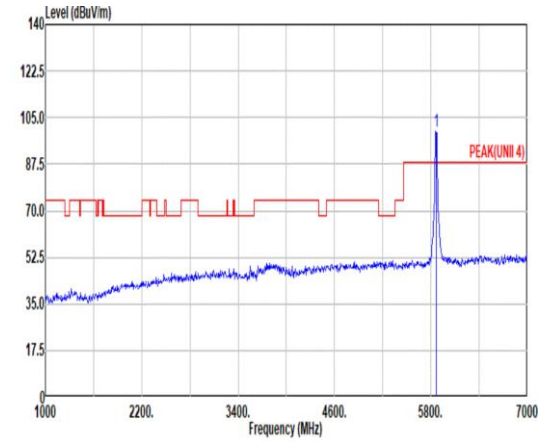
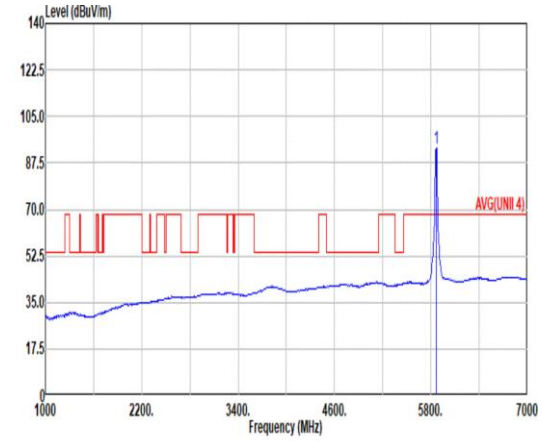
Mode	4	
	Band Edge - R	
	U-NII-4_5.85-5.895_802.11n HT20_CH169_5845MHz	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5924.25 51.09 88.75 -37.66 37.44 35.20 13.31 34.86 0.00 387 163 PEAK 2 5955.75 51.48 88.20 -36.72 37.80 35.21 13.35 34.88 0.00 387 163 PEAK	Blank
Avg	 Site : 03CH07-HY Condition: AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 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 5925.00 42.42 68.20 -25.78 28.77 35.20 13.31 34.86 0.00 387 163 AVERAGE 2 5925.75 42.76 68.20 -25.44 29.11 35.20 13.31 34.86 0.00 387 163 AVERAGE	Blank

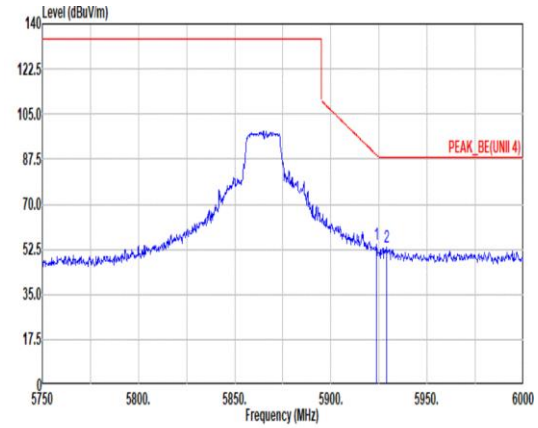
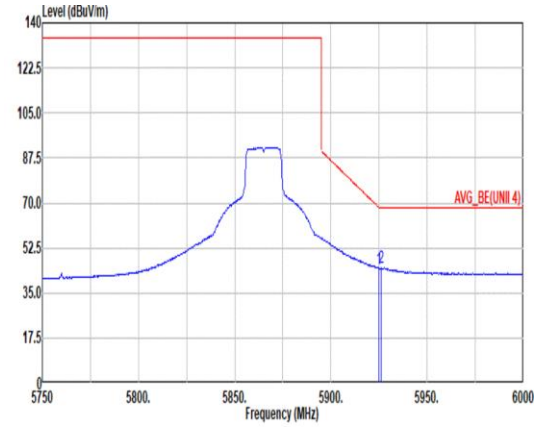
Mode	4	
	Band Edge - L	
	U-NII-4_5.85-5.895_802.11n HT20_CH169_5845MHz	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5624.19 49.86 68.20 -18.34 36.73 34.85 12.97 34.69 0.00 103 242 PEAK 2 5652.22 49.92 69.85 -19.93 36.74 34.90 12.99 34.71 0.00 103 242 PEAK 3 5700.60 48.47 105.37 -56.90 35.16 35.00 13.04 34.73 0.00 103 242 PEAK 4 5720.07 47.36 110.95 -63.59 34.05 35.00 13.05 34.74 0.00 103 242 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5845.00 102.33 ------ ------ 88.97 35.00 13.17 34.81 0.00 103 242 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 5845.00 94.66 ------ ------ 81.29 35.00 13.18 34.81 0.00 103 242 AVERAGE

Mode	4	
	Band Edge - R	
	U-NII-4_5.85-5.895_802.11n HT20_CH169_5845MHz	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5925.00 52.26 88.20 -35.94 38.61 35.20 13.31 34.86 0.00 103 242 PEAK 2 5925.00 52.26 88.20 -35.94 38.61 35.20 13.31 34.86 0.00 103 242 PEAK	Blank
Avg	 Site : 03CH07-HY Condition: AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5925.00 43.16 68.20 -25.04 29.51 35.20 13.31 34.86 0.00 103 242 AVERAGE 2 5930.00 43.25 68.20 -24.95 29.60 35.20 13.31 34.86 0.00 103 242 AVERAGE	Blank

Mode	4	
	Harmonic	
	U-NII-4_5.85-5.895_802.11n HT20_CH169_5845MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL 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 11690.00 46.22 74.00 -27.78 43.96 38.58 19.11 56.64 1.21 -- -- PEAK 2 17535.00 50.72 68.20 -17.48 40.67 41.43 22.79 55.53 1.36 -- -- PEAK	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 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 11690.00 47.52 74.00 -26.48 45.26 38.58 19.11 56.64 1.21 -- -- PEAK 2 17535.00 49.98 68.20 -18.22 39.93 41.43 22.79 55.53 1.36 -- -- PEAK

Mode	4	
	Harmonic	
	U-NII-4_5.85-5.895_802.11n HT20_CH169_5845MHz	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL
17.7G ~18G Avg	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 VERTICAL

Mode	5	
	Band Edge - L	
	U-NII-4_5.85-5.895_802.11n HT20_CH173_5865MHz	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5614.46 49.82 68.20 -18.38 36.71 34.83 12.96 34.68 0.00 393 178 PEAK 2 5650.45 48.23 68.53 -20.30 35.04 34.90 12.99 34.70 0.00 393 178 PEAK 3 5701.48 50.54 105.62 -55.08 37.23 35.00 13.04 34.73 0.00 393 178 PEAK 4 5720.36 49.38 111.62 -62.24 36.07 35.00 13.05 34.74 0.00 393 178 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5865.00 99.87 ------ ------ 86.44 35.04 13.21 34.82 0.00 393 178 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 5865.00 92.92 ------ ------ 79.46 35.06 13.22 34.82 0.00 393 178 AVERAGE

Mode	5	
	Band Edge - R	
	U-NII-4_5.85-5.895_802.11n HT20_CH173_5865MHz	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 5923.50 54.33 89.30 -34.97 40.68 35.20 13.31 34.86 0.00 393 178 PEAK 2 5928.75 53.38 88.20 -34.82 39.73 35.20 13.31 34.86 0.00 393 178 PEAK	Blank
Avg	 Site : 03CH07-HY Condition: AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 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 5925.00 44.56 68.20 -23.64 30.91 35.20 13.31 34.86 0.00 393 178 AVERAGE 2 5926.00 44.73 68.20 -23.47 31.08 35.20 13.31 34.86 0.00 393 178 AVERAGE	Blank