



FCC RADIO TEST REPORT

FCC ID : QYLBE201NG
Equipment : Wireless Module
Model Name : BE201NGW
Applicant : Getac Technology Corporation.
5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist.,
Taipei City 115018, Taiwan, R.O.C.
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 22, 2025 and testing was performed from Jun. 05, 2025 to Aug. 25, 2025. We, Sporton International Inc. Wensan 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 partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sportun International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)(8)	Fundamental Maximum EIRP	Pass	-
3.2	15.407(b)	Unwanted Emissions	Pass	-
3.3	15.207	AC Conducted Emission	Pass	-
3.4	15.203 15.407(a)	Antenna Requirement	Pass	-

Note: The module has undergone multiple transmissions assessments, and the antenna gain of the host device is lower than that of the module. Therefore, the host device was spot-checked for conducted output power and radiated spurious emissions per band. The conducted output power shows no difference compared to the module (Model: BE201NGW), and the radiated spurious emissions comply with the limits specified in this test report.

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: Josie Hsu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be and Wi-Fi 6GHz 802.11ax/be.	
Antenna Type WLAN: <Main>: PIFA Antenna <Aux.>: PIFA Antenna	
Equipment Type	Dual Client (6CD) Very Low Power (6VL)

Antenna Information for Host		
5925 MHz ~ 6425 MHz	Peak Gain (dBi)	<Main>: 2.79: <Aux.>: 2.64:
6425 MHz ~ 6525 MHz	Peak Gain (dBi)	<Main>: 2.54: <Aux.>: 2.71:
6525 MHz ~ 6875 MHz	Peak Gain (dBi)	<Main>: 2.88: <Aux.>: 2.89:
6875 MHz ~ 7125 MHz	Peak Gain (dBi)	<Main>: 2.87: <Aux.>: 2.29:



The product was installed into Tablet (Brand Name: Getac, Model Name: F120, F120Y (Y= 10 characters, Y can be 0-9, a-z, A-Z, “-”, “_” or blank for marketing purpose and no impact safety related critical components and constructions.)) during test, and the host information was recorded in the following table.

Sample Information for Host			
DVT SKUs	SKU A	SKU B	SKU C
CPU	ULTRA5-226V	ULTRA5-236V	ULTRA7-268V
DDR	INTEGRATED 16GB	INTEGRATED 16GB	INTEGRATED 32GB
SSD	256GB	512GB	1TB
PANEL	Full FHD AUO	Full FHD AUO	Full FHD AUO
DIGITIZER	Not Support	EMRight Digitizer	EMRight Digitizer
OPTION BAY	LAN	Barcode Reader	Barcode Reader
Expansion Bay	N/A	HID RFID	SMART CARD
Right side option	USB2.0	Fingerprinter	RFID (SN-NSVG7-C01)
WLAN/BT	Intel BE201NGW	Intel BE201NGW	Intel BE201NGW
WWAN	N/A	LN920A12-WW	LN920A12-WW
GNSS	SE868K5-D (L1+L5)	LN920A12-WW	LN920A12-WW
Rear 8M Camera	Support	Support	Support
Webcam FHD	Support	Support	Support
USB3.2 Gen2 x 1 Type-A	Support	Support	Support
Type-C (thunder bolt)	Support	Support	Support

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



1.1.1 Antenna Directional Gain

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

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

where

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

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

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

Directional gain = $10 \cdot \log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where $G1, G2, \dots, GN$ denote single antenna gain.

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

	Chain A (dBi)	Chain B (dBi)	DG for Power (dBi)	DG for PSD (dBi)
			Power	PSD
			(dBi)	(dBi)
5925 MHz ~ 6425 MHz	2.79	2.64	2.79	5.73
6425 MHz ~ 6525 MHz	2.54	2.35	2.54	5.46
6525 MHz ~ 6875 MHz	2.88	2.89	2.89	5.90
6875 MHz ~ 7125 MHz	2.88	2.89	2.89	5.90

Calculation example:

If a device has two antenna, $G_{Chain\ A} = 2.79$ dBi; $G_{Chain\ B} = 2.64$ dBi

Directional gain of power measurement = $\max(2.79, 2.64) + 0 = 2.79$ dBi

Directional gain of PSD derived from formula which is

$$10 \cdot \log \{ [10^{(2.79 \text{ dBi} / 20)} + 10^{(2.64 \text{ dBi} / 20)}]^2 / 2 \} / 2 \\ = 5.73 \text{ dBi}$$



1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sportun 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.	Sportun Site No. TH05-HY, CO07-HY, 03CH21-HY

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

FCC designation No.: 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 987594 D02 U-NII 6 GHz EMC Measurement v03
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ 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 antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

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

2.1 Carrier Frequency and Channel

BW 20M	Channel	1	5	9	13	17	21	25	29									
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095									
BW 40M	Channel	3		11		19		27										
	Freq. (MHz)	5965		6005		6045		6085										
BW 80M	Channel	7			23													
	Freq. (MHz)	5985			6065													
BW 160M	Channel	15																
	Freq. (MHz)	6025																

BW 20M	Channel	33	37	41	45	49	53	57	61									
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255									
BW 40M	Channel	35		43		51		59										
	Freq. (MHz)	6125		6165		6205		6245										
BW 80M	Channel	39			55													
	Freq. (MHz)	6145			6225													
BW 160M	Channel	47																
	Freq. (MHz)	6185																



BW 20M	Channel	65	69	73	77	81	85	89	93				
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415				
BW 40M	Channel	67		75		83		91					
	Freq. (MHz)	6285		6325		6365		6405					
BW 80M	Channel	71			87								
	Freq. (MHz)	6305			6385								
BW 160M	Channel	79											
	Freq. (MHz)	6345											

BW 20M	Channel	97	101	105	109	113	117	121	125				
	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575				
BW 40M	Channel	99		107		115		123					
	Freq. (MHz)	6445		6485		6525		6565					
BW 80M	Channel	103			119								
	Freq. (MHz)	6465			6545								
BW 160M	Channel	111											
	Freq. (MHz)	6505											

BW 20M	Channel	129	133	137	141	145	149	153	157				
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735				
BW 40M	Channel	131		139		147		155					
	Freq. (MHz)	6605		6645		6685		6725					
BW 80M	Channel	135			151								
	Freq. (MHz)	6625			6705								
BW 160M	Channel	143											
	Freq. (MHz)	6665											

BW 20M	Channel	161	165	169	173	177	181	185	189				
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895				
BW 40M	Channel	163		171		179		187					
	Freq. (MHz)	6765		6805		6845		6885					
BW 80M	Channel	167			183								
	Freq. (MHz)	6785			6865								
BW 160M	Channel	175											
	Freq. (MHz)	6825											



BW 20M	Channel	193	197	201	205	209	213	217	221					
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055					
BW 40M	Channel	195		203		211		219						
	Freq. (MHz)	6925		6965		7005		7045						
BW 80M	Channel	199			215									
	Freq. (MHz)	6945			7025									
BW 160M	Channel	207												
	Freq. (MHz)	6985												
BW 20M	Channel	225			229									
	Freq. (MHz)	7075			7095									
BW 40M	Channel	227												
	Freq. (MHz)	7085												
BW 20M	Channel	233												
	Freq. (MHz)	7115												

2.2 Test Mode

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

Single Mode

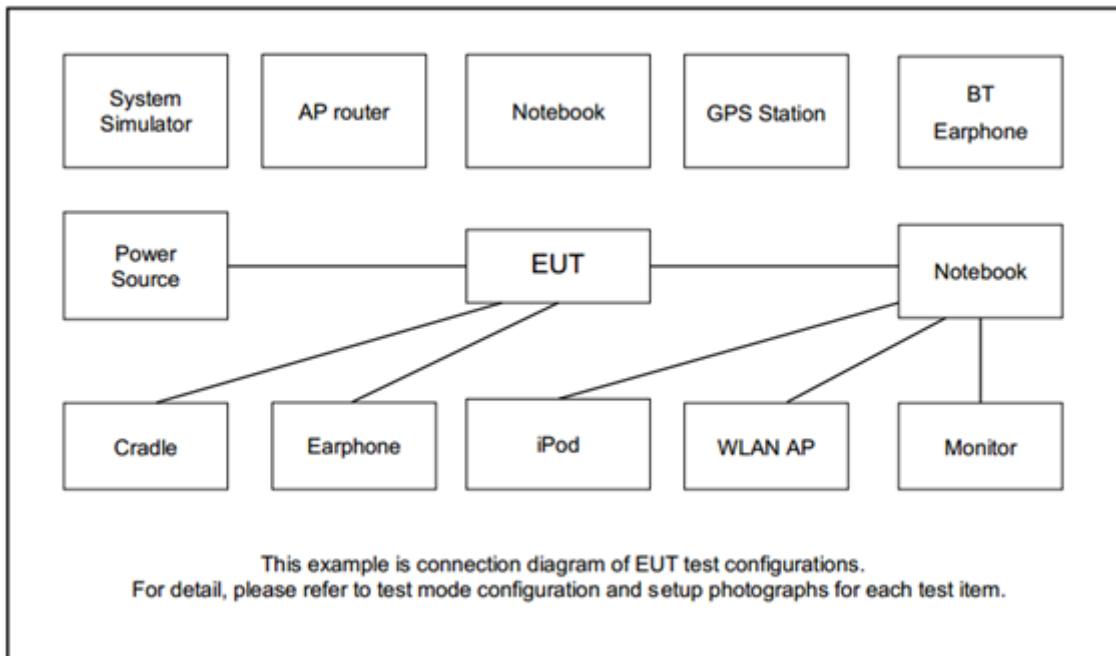
	Modulation	Data Rate
	802.11be EHT40	MCS0
	802.11be EHT320	MCS0

MIMO Mode

	Modulation	Data Rate
	802.11be EHT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (6GHz) Tx (11be EHT40 Ch03) + Adapter1 + Battery 1 for SKU A
Remark:	
<ol style="list-style-type: none"> 1. The detailed Radiated test modes are shown in Appendix C. 2. For Radiated Test Cases, the tests were performed with Adapter1, Battery 1 and SKU B. 3. Based on ANSI C63.10 clause 5.6.2.2, b) Spurious emissions, measure the mode with the highest output power and the mode with highest output power spectral density for each modulation family. 	

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8m
2.	USB HD	ADATA	HV620S-1T	FCC DoC	Shielded, 0.5m	N/A
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility DRTU.07983.23.120.0" was installed in Host 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.



3 Test Result

3.1 Fundamental Maximum EIRP Measurement

3.1.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access

point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 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 and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

(a)(9) For very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed -5 dBm e.i.r.p in any 1-megahertz band and the maximum e.i.r.p must not exceed 14 dBm.

3.1.2 Measuring Instruments

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

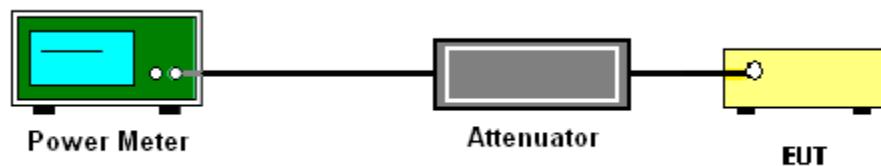
3.1.3 Test Procedures

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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.1.4 Test Setup



3.1.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.



3.2 Unwanted Emissions Measurement

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

3.2.1 Limit of Unwanted Emissions

(1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dB μ V/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v03 section G:

Unwanted emissions outside of restricted bands are measured with a 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

(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

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

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

3.2.2 Measuring Instruments

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

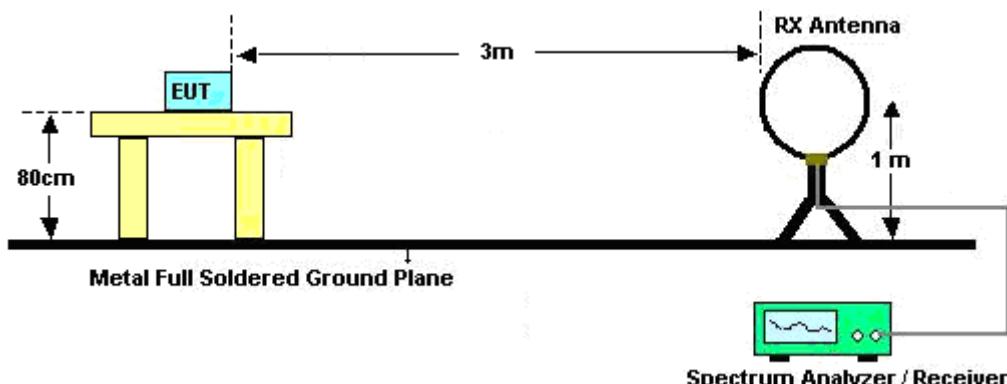


3.2.3 Test Procedures

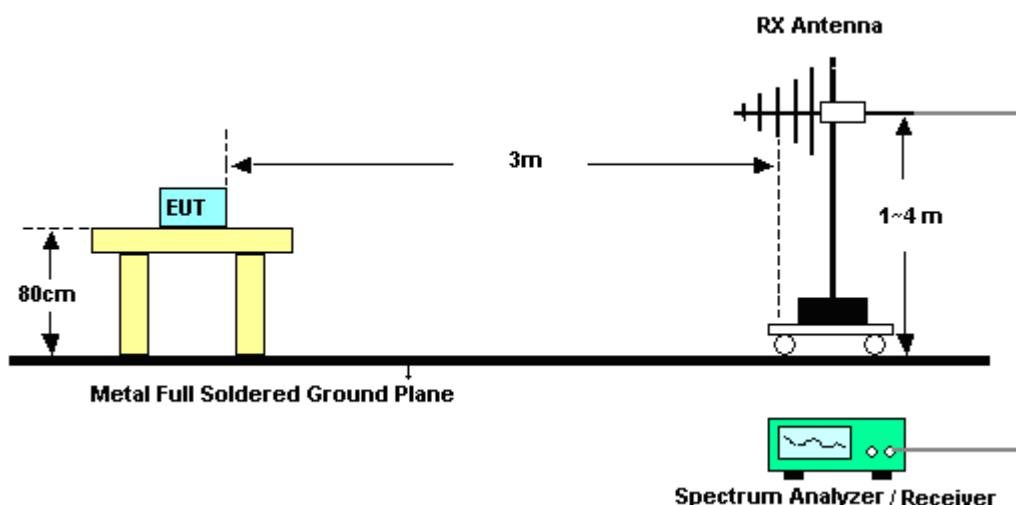
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 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 \geq 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 is 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 is set 3 meters away from the receiving antenna which is 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 is 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 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees 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 6 dB margin against average limit line, the position is marked as “-“.

3.2.4 Test Setup

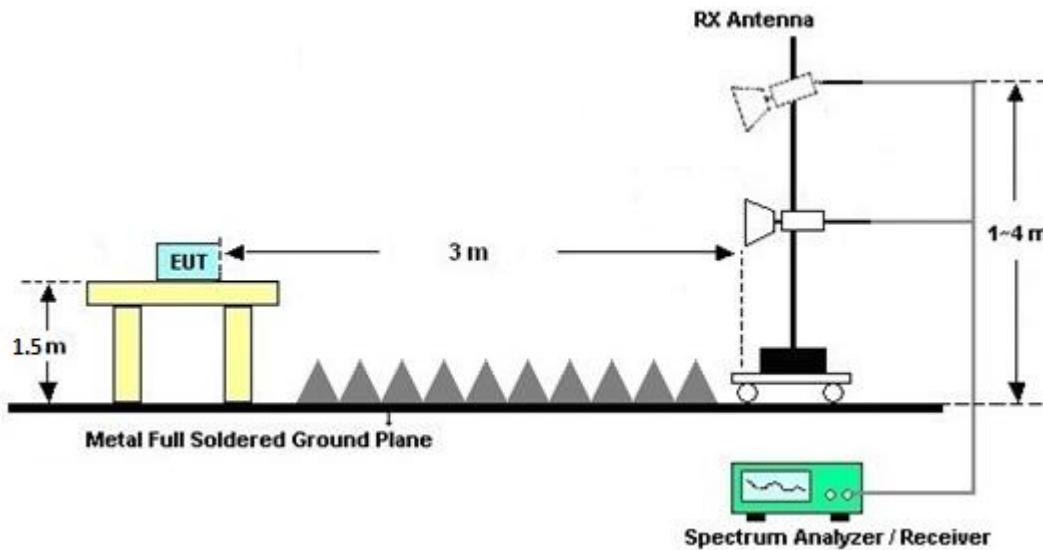
For radiated emissions below 30MHz



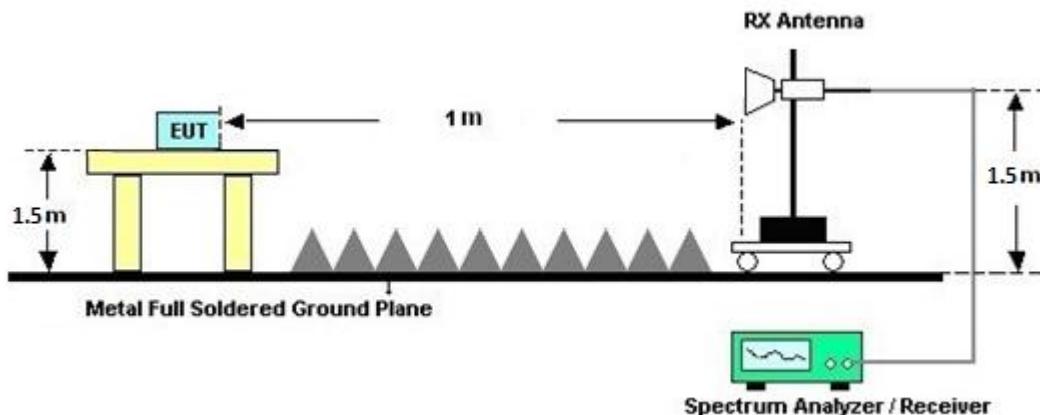
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is 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.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.2.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.



3.3 AC Conducted Emission Measurement

3.3.1 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 (dB μ V)	
	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.

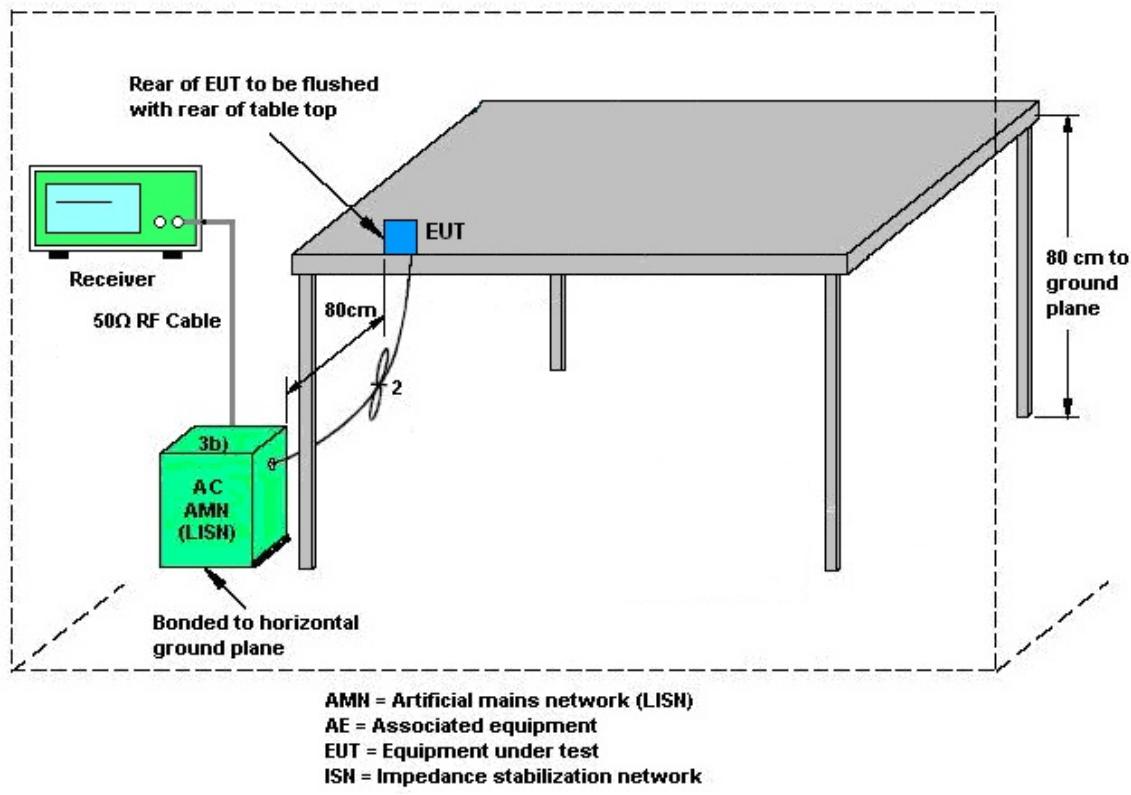
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.4 Antenna Requirements

3.4.1 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.

3.4.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Jun. 09, 2025~Jun. 10, 2025	Aug. 28, 2025	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Dec. 17, 2024	Jun. 09, 2025~Jun. 10, 2025	Dec. 16, 2025	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18EN	1GHz~18GHz	Jul. 11, 2024	Jun. 09, 2025~Jun. 10, 2025	Jul. 10, 2025	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jun. 24, 2024	Jun. 09, 2025~Jun. 10, 2025	Jun. 23, 2025	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 14, 2024	Jun. 09, 2025~Jun. 10, 2025	Jul. 13, 2025	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 27, 2024	Jun. 09, 2025~Jun. 10, 2025	Sep. 26, 2025	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Jun. 09, 2025~Jun. 10, 2025	Sep. 01, 2025	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 06, 2024	Jun. 09, 2025~Jun. 10, 2025	Sep. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Jun. 09, 2025~Jun. 10, 2025	Mar. 04, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,8046 12/2,803954/2	30MHz~40GHz	Aug. 12, 2024	Jun. 09, 2025~Jun. 10, 2025	Aug. 11, 2025	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2024	Jun. 09, 2025~Jun. 10, 2025	Oct. 20, 2025	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 09, 2025~Jun. 10, 2025	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 09, 2025~Jun. 10, 2025	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 09, 2025~Jun. 10, 2025	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jun. 09, 2025~Jun. 10, 2025	N/A	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Jun. 05, 2025~Aug. 25, 2025	Oct. 31, 2025	Conducted (TH05-HY)
USB Power Sensor	Raditeq	RPR3008W	RPR3008W-57 000008 (NO:199)	10MHz~8GHz	May 21, 2025	Jun. 05, 2025~Aug. 25, 2025	May 20, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Jun. 05, 2025~Aug. 25, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instrument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Jun. 05, 2025~Aug. 25, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Jun. 05, 2025~Aug. 25, 2025	N/A	Conducted (TH05-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	Jun. 09, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 09, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Jun. 09, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Jun. 09, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Jun. 09, 2025	Mar. 23, 2026	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 26, 2025	Jun. 09, 2025	Mar. 25, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Jun. 09, 2025	Sep. 22, 2025	Conduction (CO07-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))	6.6 dB
--	--------

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7 dB
--	--------

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

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2025/6/5	Relative Humidity:	51~54	%
Remark: For Conducted Test Items, Ant. 1 means Chain B (Aux.) and Ant. 2 means Chain A (Main).				

TEST RESULTS DATA
EIRP Power Table

<LPI>

U-NII-5 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
EHT40	MCS0	1	003	5965	Full	8.50	-		2.64	2.79	11.14	-	24.00	Pass

U-NII-5 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM	SUM		
EHT40	MCS0	2	003	5965	Full	4.80	5.80	8.34	2.79		11.13		24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-8 straddle channel single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
EHT320	MCS0	1	159	6745	Full	16.80	-		2.88	2.89	19.68	-	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

<VLP>

U-NII-5 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
EHT320	MCS0	1	031	6105	Full	8.60	-	-	2.64	2.79	11.24	-	14.00	Pass

TEST RESULTS DATA
EIRP Power Table

<Standard Client>

U-NII-5 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
EHT40	MCS0	1	003	5965	Full	21.40	-	-	2.64	2.79	24.04	-	30.00	Pass

U-NII-5 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM	Ant 1		
EHT40	MCS0	2	003	5965	Full	21.30	21.50	24.41	2.79	2.79	27.20	27.20	30.00	Pass
EHT40	MCS0	2	043	6165	Full	21.20	21.10	24.16	2.79	2.79	26.95	26.95	30.00	Pass



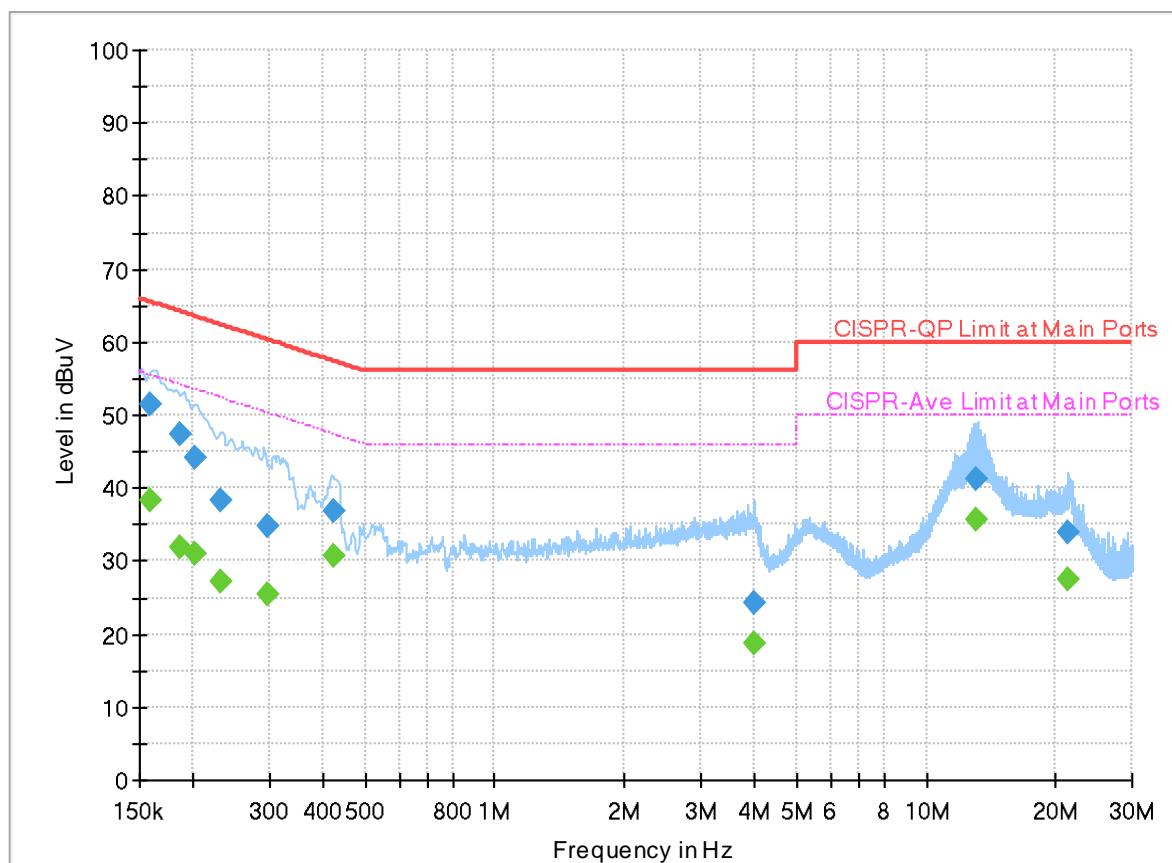
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	22.8~25.6°C
		Relative Humidity :	46.2~52.3%

EUT Information

Report NO : 552229
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



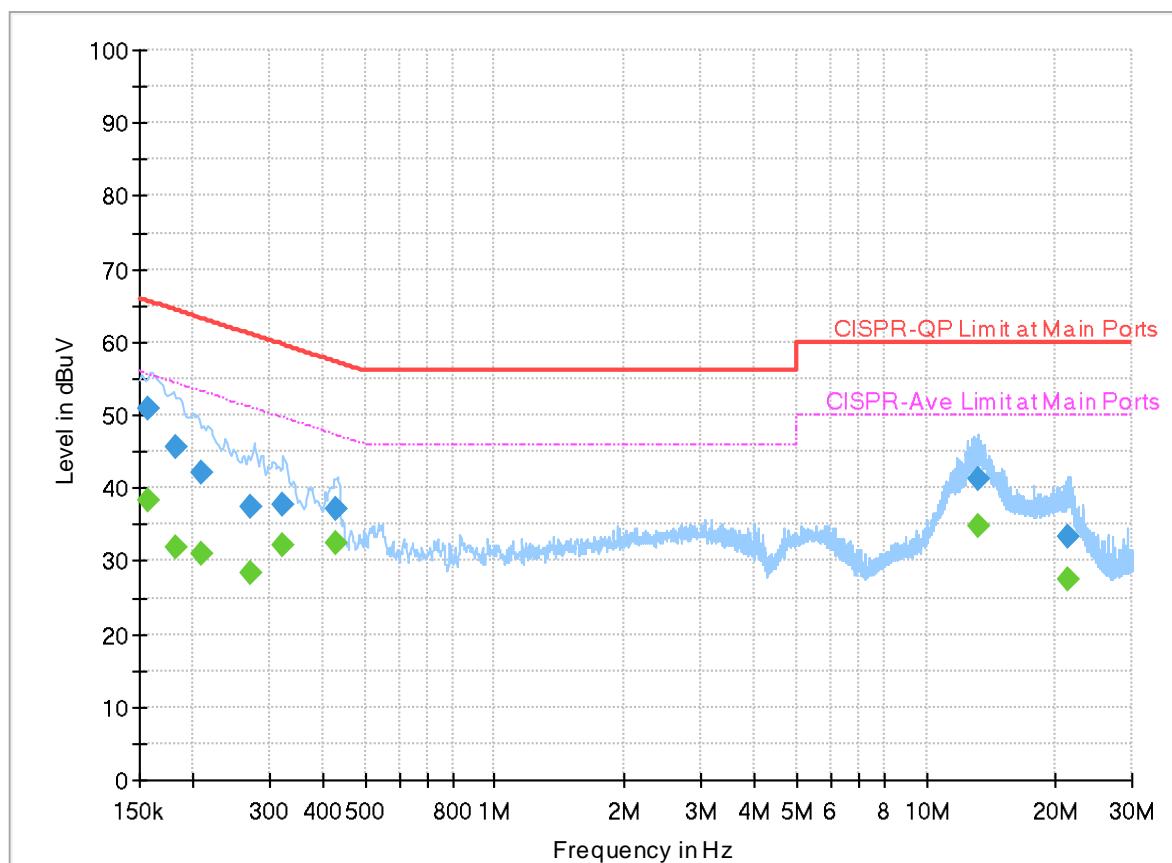
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.159000	---	38.39	55.52	17.13	L1	FLO	20.0
0.159000	51.38	---	65.52	14.14	L1	FLO	20.0
0.186000	---	31.89	54.21	22.32	L1	FLO	20.0
0.186000	47.23	---	64.21	16.98	L1	FLO	20.0
0.201030	---	30.96	53.57	22.61	L1	FLO	20.0
0.201030	44.02	---	63.57	19.55	L1	FLO	20.0
0.230190	---	27.29	52.44	25.15	L1	FLO	20.0
0.230190	38.40	---	62.44	24.04	L1	FLO	20.0
0.296250	---	25.53	50.35	24.82	L1	FLO	20.0
0.296250	34.67	---	60.35	25.68	L1	FLO	20.0
0.422250	---	30.63	47.40	16.77	L1	FLO	20.0
0.422250	36.91	---	57.40	20.49	L1	FLO	20.0
3.994620	---	18.65	46.00	27.35	L1	FLO	20.1
3.994620	24.13	---	56.00	31.87	L1	FLO	20.1
13.032150	---	35.77	50.00	14.23	L1	FLO	20.5
13.032150	41.26	---	60.00	18.74	L1	FLO	20.5
21.394500	---	27.60	50.00	22.40	L1	FLO	20.9
21.394500	33.80	---	60.00	26.20	L1	FLO	20.9

EUT Information

Report NO : 552229
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.156750	---	38.36	55.63	17.27	N	FLO	20.0
0.156750	50.79	---	65.63	14.84	N	FLO	20.0
0.181050	---	32.01	54.44	22.43	N	FLO	20.0
0.181050	45.60	---	64.44	18.84	N	FLO	20.0
0.208500	---	30.94	53.27	22.33	N	FLO	20.0
0.208500	41.96	---	63.27	21.31	N	FLO	20.0
0.271500	---	28.43	51.07	22.64	N	FLO	20.0
0.271500	37.54	---	61.07	23.53	N	FLO	20.0
0.320820	---	32.07	49.69	17.62	N	FLO	20.0
0.320820	37.77	---	59.69	21.92	N	FLO	20.0
0.428370	---	32.53	47.28	14.75	N	FLO	20.0
0.428370	37.15	---	57.28	20.13	N	FLO	20.0
13.236450	---	34.68	50.00	15.32	N	FLO	20.5
13.236450	41.17	---	60.00	18.83	N	FLO	20.5
21.291000	---	27.46	50.00	22.54	N	FLO	20.9
21.291000	33.29	---	60.00	26.71	N	FLO	20.9



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Fred Tseng, Ray Lung and Sky Chang	Temperature(°C):	18~23
		Relative Humidity(%):	50~65

Remark: For Radiated Spurious Emission Test Data, Ant. 1 means Chain A (Aux.) and Ant. 2 means Chain B (Main).

Note symbol

-L	Low channel location
-R	High channel location

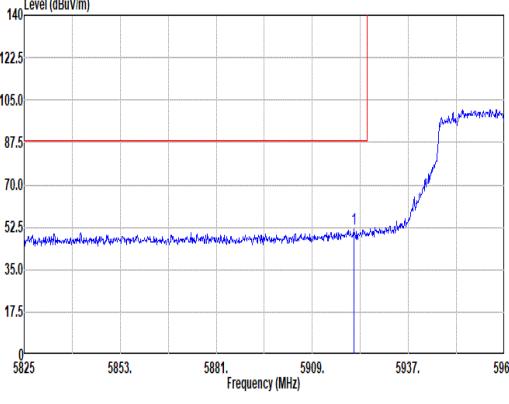
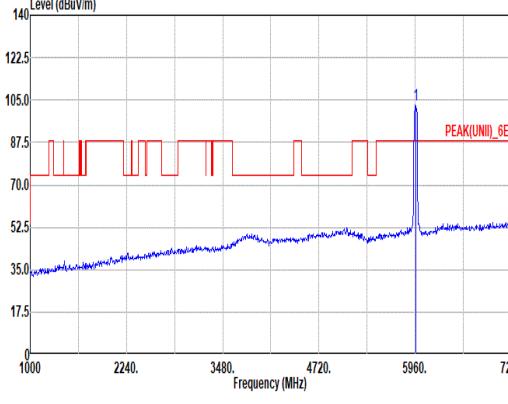
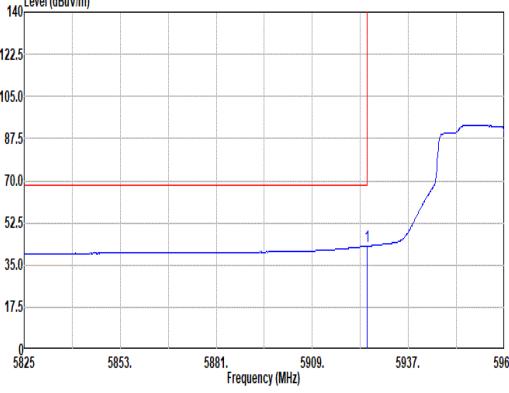
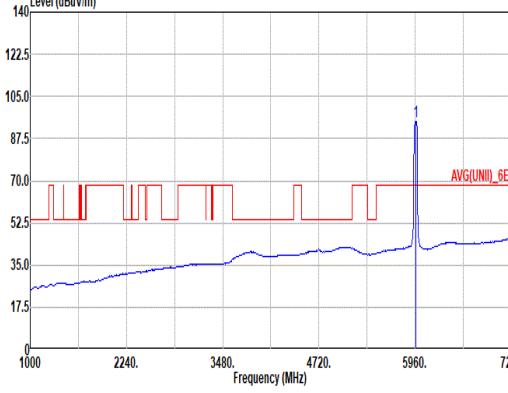
C1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-5	5.925-6.425	1	802.11be EHT40	3	5965	MCS0	Full RU	-
Mode 2	U-NII-5	5.925-6.425	1+2	802.11be EHT40	3	5965	MCS0	Full RU	-
Mode 3	U-NII-5	5.925-6.425	1+2	802.11be EHT40	3	5965	MCS0	Full RU	SHF
Mode 4	U-NII-5	5.925-6.425	1+2	802.11be EHT40	3	5965	MCS0	Full RU	LF

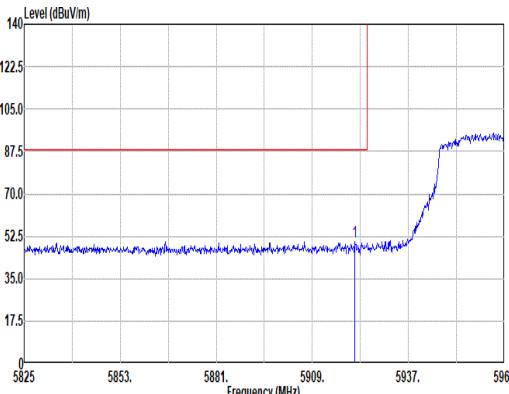
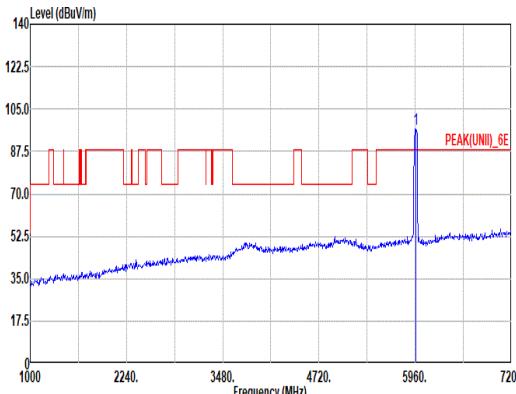
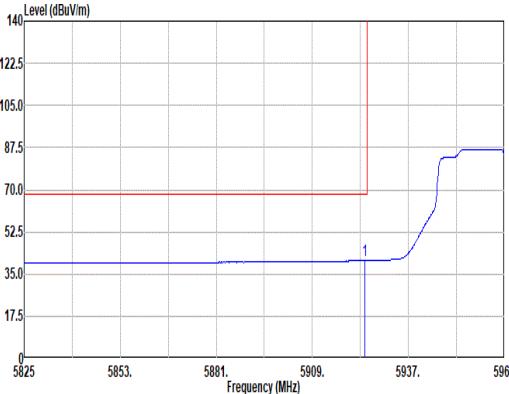
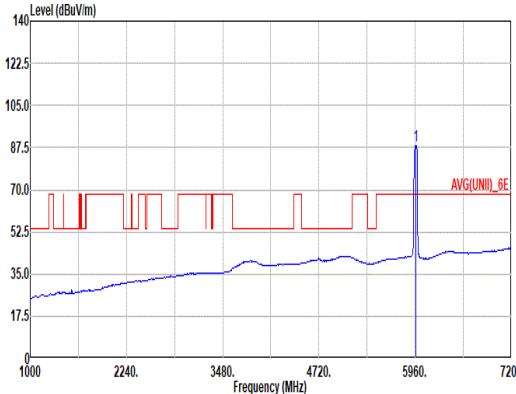
C2. Summary of each worse mode

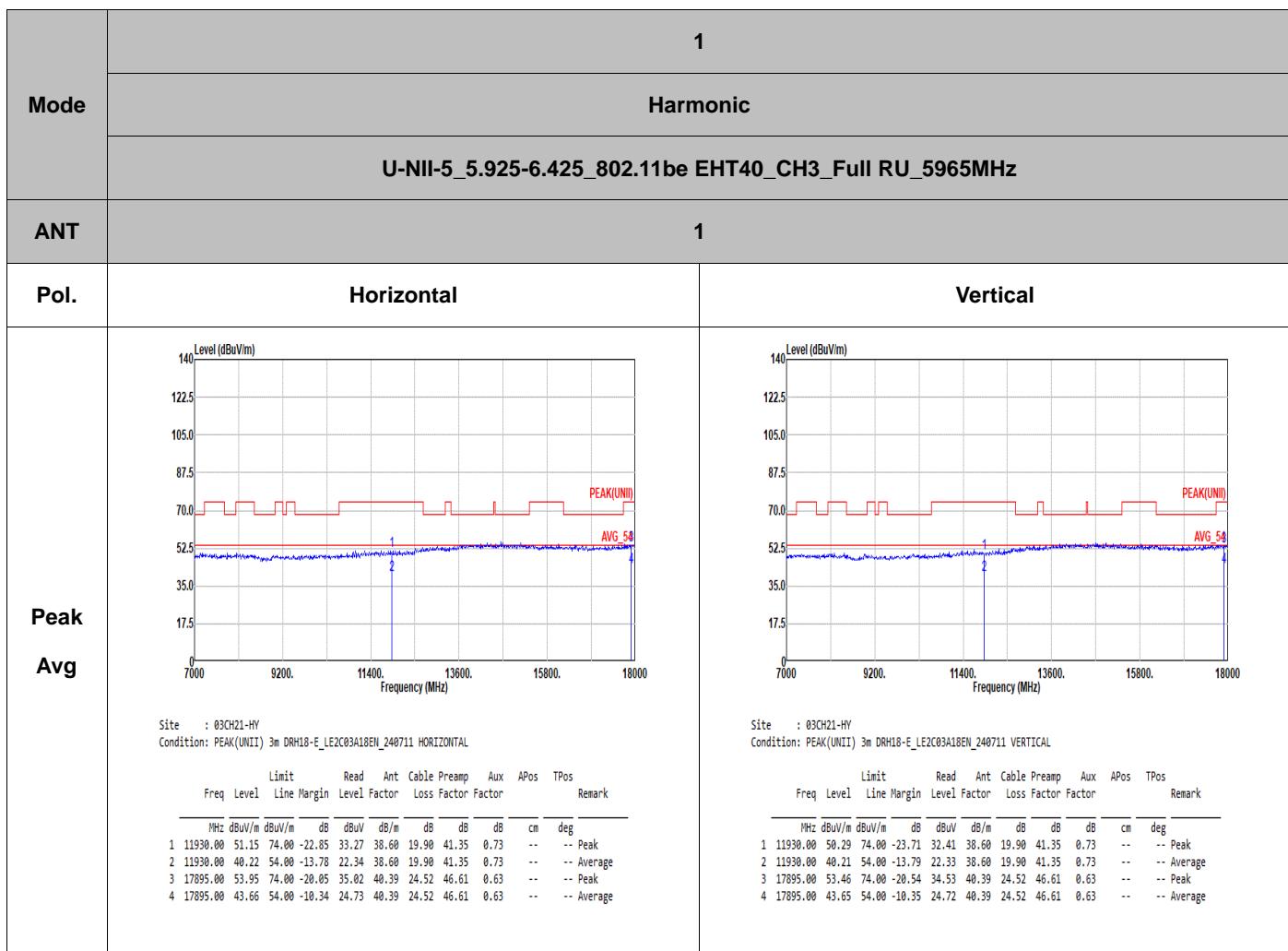
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11be EHT40	3	5924.96	42.79	68.20	-25.41	H	Avg.	Pass	Full RU	Band Edge
	802.11be EHT40	3	17895.00	43.66	54.00	-10.34	H	Avg.	Pass	Full RU	Harmonic
2	802.11be EHT40	3	5924.96	41.04	68.20	-27.16	H	Avg.	Pass	Full RU	Band Edge
	802.11be EHT40	3	17895.00	43.67	54.00	-10.33	H	Avg.	Pass	Full RU	Harmonic
3	802.11be EHT40	3	38844.58	40.76	54.00	-13.24	V	Avg.	Pass	Full RU	SHF
4	802.11be EHT40	3	163.86	33.18	43.50	-10.32	H	Peak	Pass	Full RU	LF

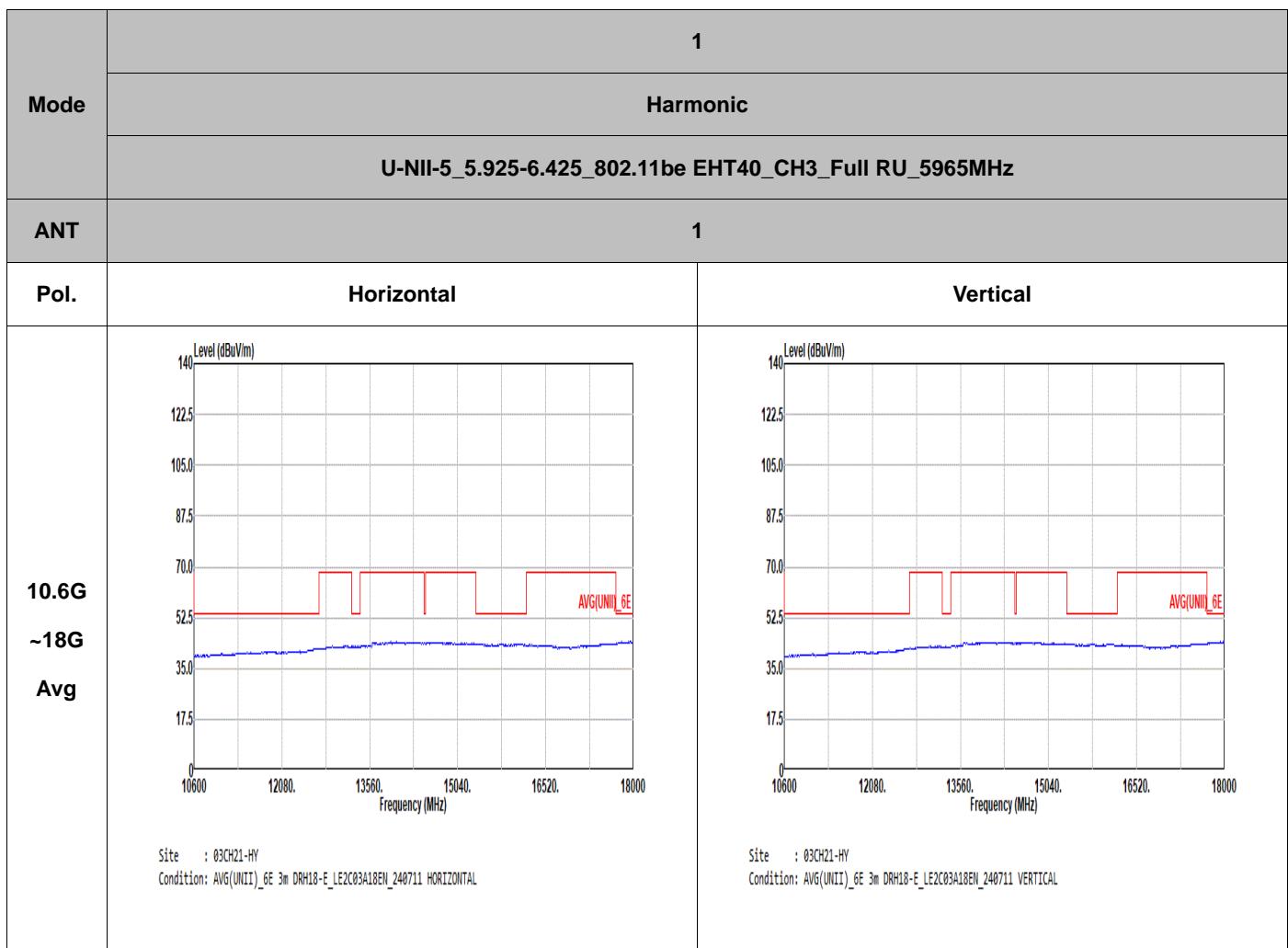


Mode	1																																																																																																																									
	Band Edge																																																																																																																									
	U-NII-5_5.925-6.425_802.11be EHT40_CH3_Full RU_5965MHz																																																																																																																									
ANT	1																																																																																																																									
Pol.	Horizontal	Fundamental																																																																																																																								
Peak	 <p>Site : 03CH21-HY Condition: PEAK_BE(U NII)_6E 3m DRH18-E LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table border="1"><thead><tr><th>Freq</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr></thead><tbody><tr><td>MHz</td><td>dBuV/m</td><td>dBuV/m</td><td>dB</td><td>dBuV</td><td>dB/m</td><td>dB</td><td>dB</td><td>cm</td><td>deg</td></tr><tr><td>1</td><td>5921.18</td><td>51.71</td><td>88.20</td><td>-36.49</td><td>39.59</td><td>33.66</td><td>13.94</td><td>35.48</td><td>0.00</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>100</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>94 Peak</td></tr></tbody></table>	Freq	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5921.18	51.71	88.20	-36.49	39.59	33.66	13.94	35.48	0.00										100										94 Peak	 <p>Site : 03CH21-HY Condition: PEAK(U NII)_6E 3m DRH18-E LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table border="1"><thead><tr><th>Freq</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Remark</th></tr></thead><tbody><tr><td>MHz</td><td>dBuV/m</td><td>dBuV/m</td><td>dB</td><td>dBuV</td><td>dB/m</td><td>dB</td><td>dB</td><td>cm</td><td>deg</td></tr><tr><td>1</td><td>5965.00</td><td>102.82</td><td>-----</td><td>-----</td><td>90.72</td><td>33.62</td><td>13.98</td><td>35.50</td><td>0.00</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>100</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>94 Peak</td></tr></tbody></table>	Freq	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5965.00	102.82	-----	-----	90.72	33.62	13.98	35.50	0.00										100										94 Peak
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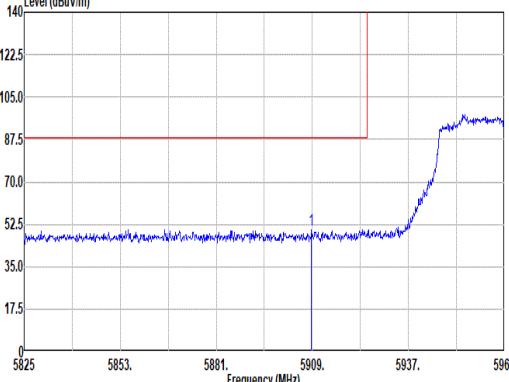
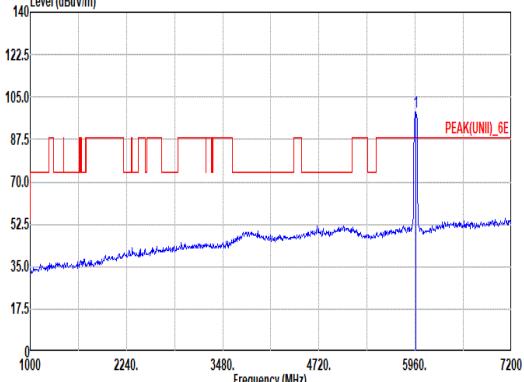
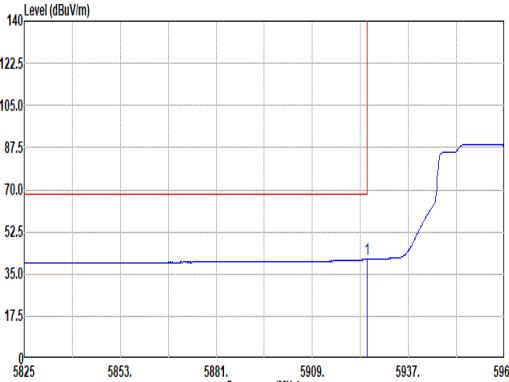
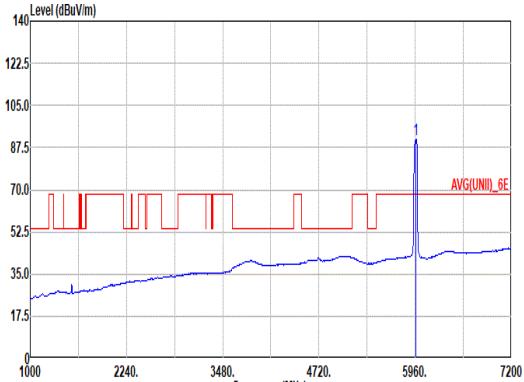


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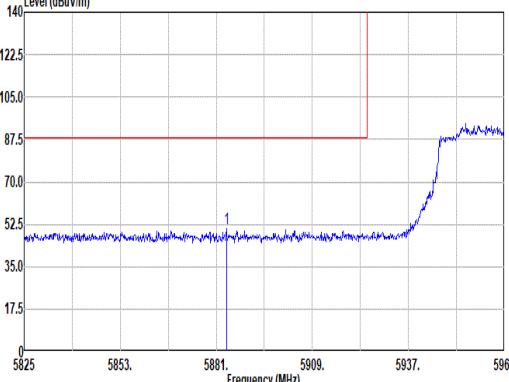
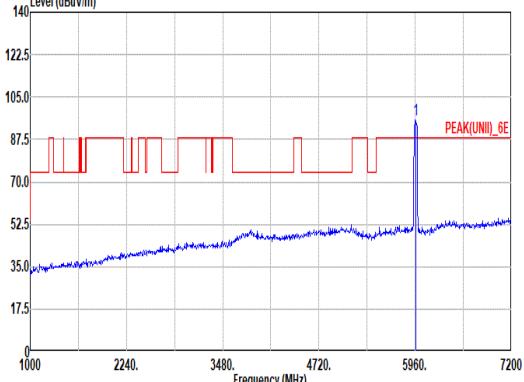
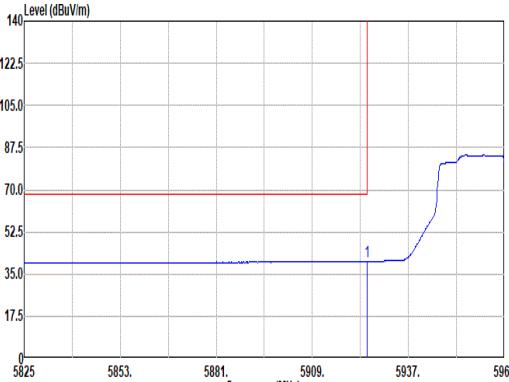
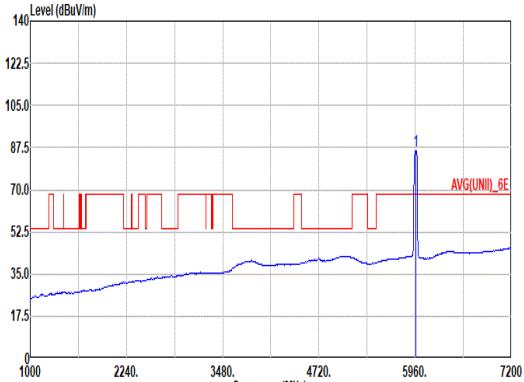


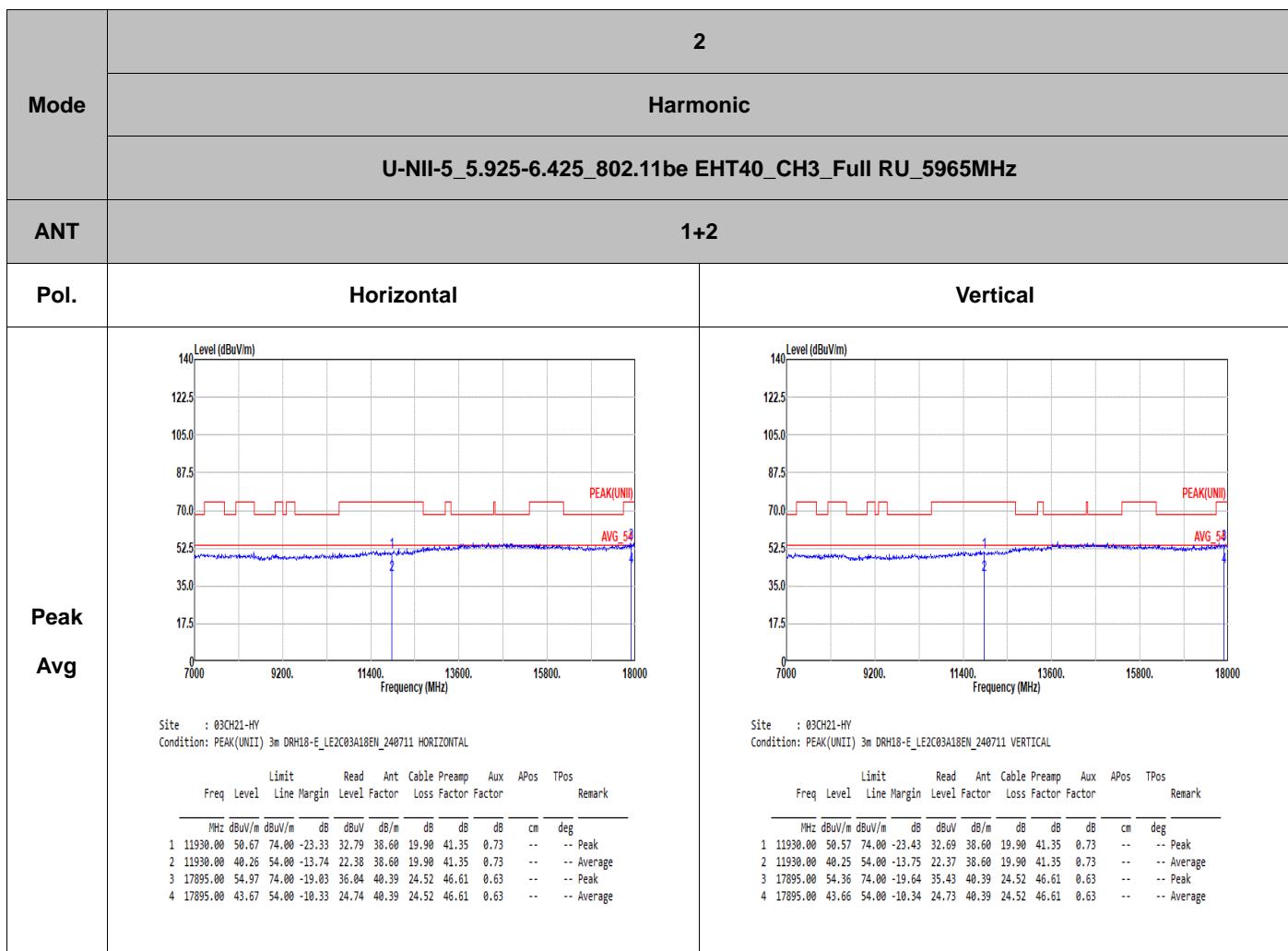


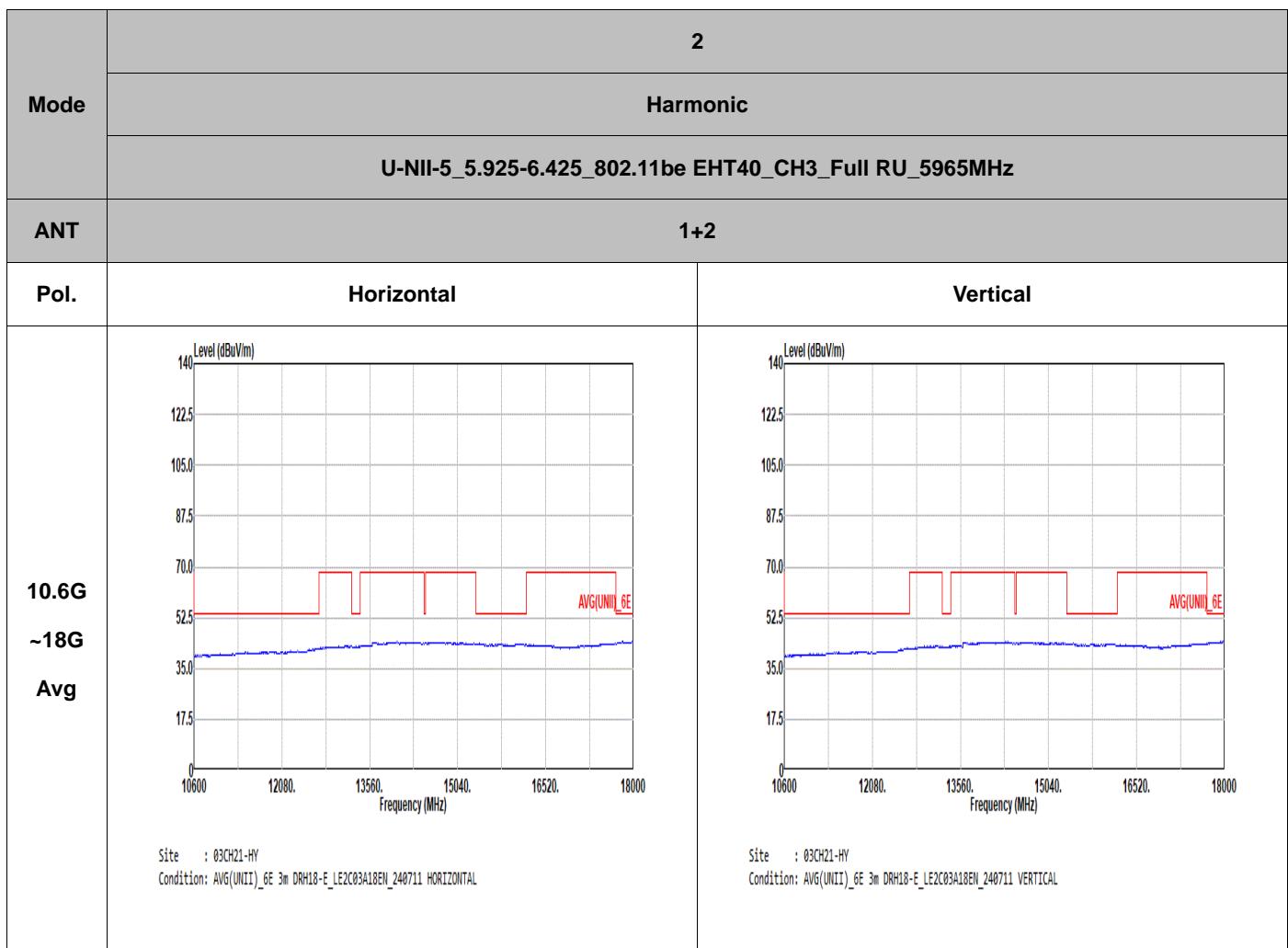


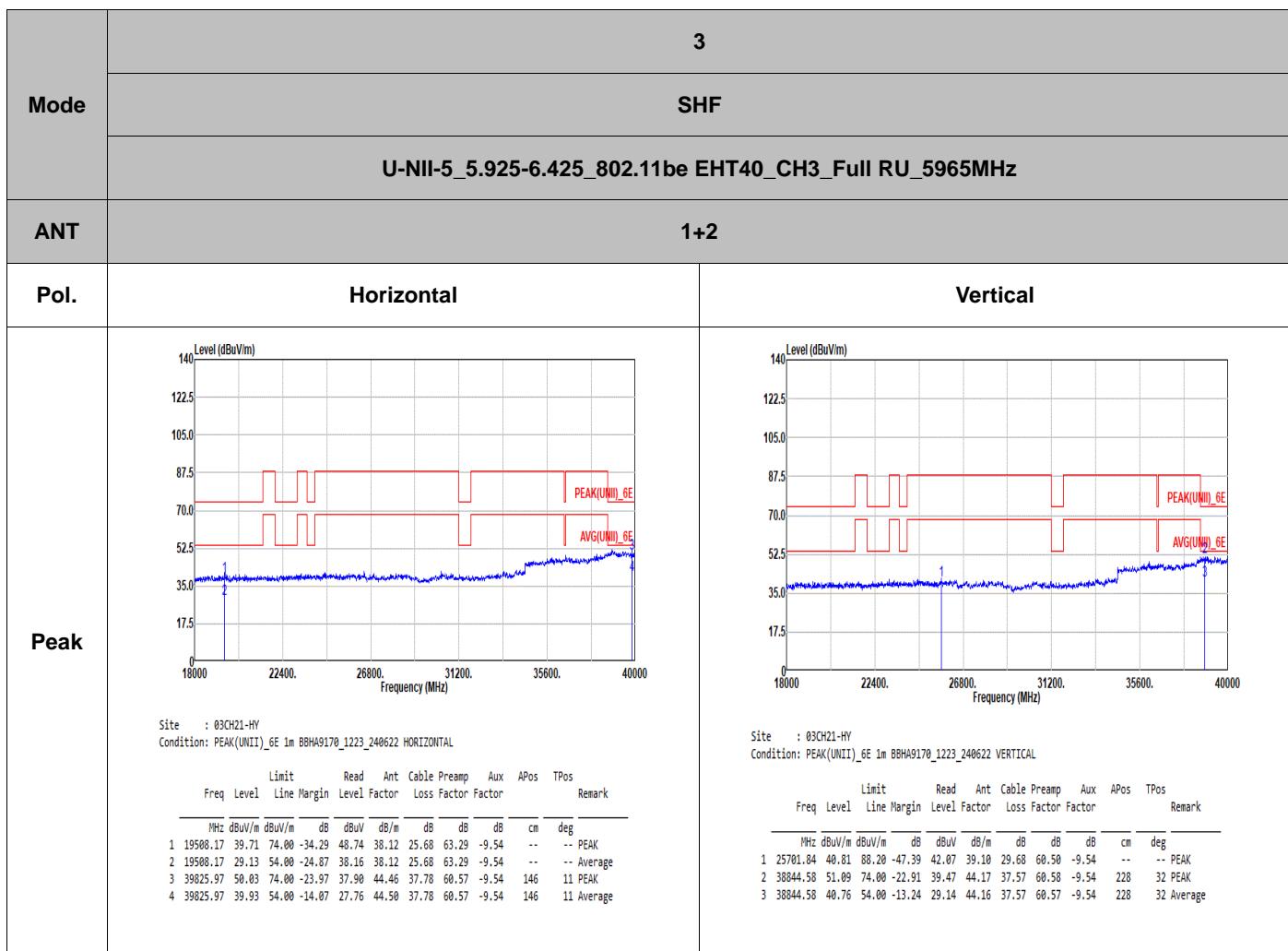
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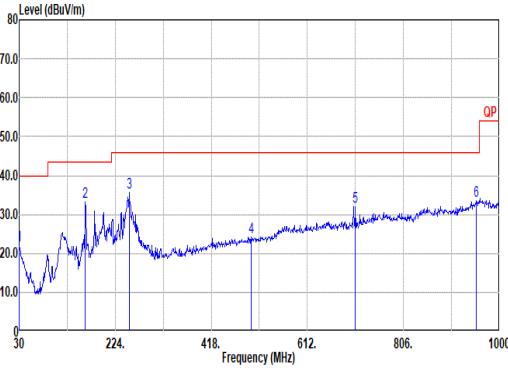
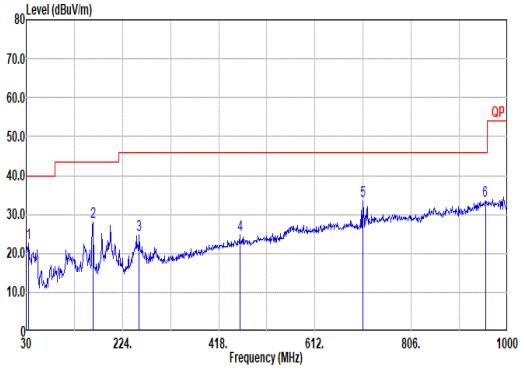
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Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	6GHz 802.11be EHT40 Full RU	98.76	-	-	10Hz
1+2	6GHz 802.11be EHT40 Full RU	98.76	-	-	10Hz

<Ant. 1>

MIMO <Ant. 1+2>

