



FCC RADIO TEST REPORT

FCC ID : TVE-240201
Equipment : Network Security Gateway
Brand Name : FORTINET **FORTINET**
Model Name : FortiWiFi 30Gxxxxxxxxxx, FORTIWIFI 30Gxxxxxxxxxx,
FWF-30Gxxxxxxxxxx
FortiWiFi 31Gxxxxxxxxxx, FORTIWIFI 31Gxxxxxxxxxx,
FWF-31Gxxxxxxxxxx
(where "x" can be used as "A-Z", or "0-9", or "-", or blank
for software purposes or marketing purposes only)
Applicant : Fortinet Inc.
909 KIFER RD
SUNNYVALE CA 94086
UNITED STATES
Manufacturer : Fortinet Inc.
909 KIFER RD
SUNNYVALE CA 94086
UNITED STATES
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 17, 2024 and testing was performed from Jun. 12, 2024 to Jul. 02, 2024. 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 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.

Louis Wu

Approved by: Louis Wu

Sporton 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

Report No.	Version	Description	Issue Date
FR450904C	01	Initial issue of report	Jul. 31, 2024
FR450904C	02	Revise Antenna Requirements This report is an updated version, replacing the report issued on Jul. 31, 2024.	Aug. 07, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	0.86 dB under the limit at 5926.80 MHz
3.5	15.207	AC Conducted Emission	Pass	14.69 dB under the limit at 0.17 MHz
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/manufacture 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: Rebecca Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Wi-Fi 2.4GHz 802.11b/g/n/ax and Wi-Fi 5GHz 802.11a/n/ac/ax		
Antenna Type WLAN: <Ant. 1>: Dipole Antenna <Ant. 2>: Dipole Antenna <Ant. 3>: Dipole Antenna		
Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Ant. 1: 1.58
		Ant. 2: 1.58
		Ant. 3: 1.58

Remark:

1. Antenna 3 is used for receiving only.
2. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.1.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F2)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.

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

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

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant 1 (dBi)	Ant 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	1.58	1.58	1.58	4.59	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT1} = 1.58\text{dBi}$; $G_{ANT2} = 1.58\text{dBi}$

Directional gain of power measurement = $\max(1.58, 1.58) + 0 = 1.58 \text{ dBi}$

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{(1.58 \text{ dBi} / 20)} + 10^{(1.58 \text{ dBi} / 20)} \right]^2 / 2 \right\} \\ = 4.59 \text{ dBi}$$

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

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

<TXBF Modes>

The EUT supports beamforming modes , then

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

Directional gain = GANT + 10 log(NANT/NSS) dBi,

where NSS = the number of independent spatial streams of data and GANT is the antenna gain in dBi

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

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	1.58	1.58	4.59	4.59	0.00	0.00

Calculation example:

Directional gain is derived from formula which is

$$10 \times \log \{ \{ [10^{\wedge} (1.58 \text{ dBi} / 20) + 10^{\wedge} (1.58 \text{ dBi} / 20)] ^ 2 \} / 2 \}$$

$$= 4.59 \text{ dBi}$$

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

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. TH05-HY, CO07-HY, 03CH13-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 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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, 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 two degree (Degree 0 or Degree 90), 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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "[#]" are 802.11ac VHT80 and 802.11ax HE80.



2.2 Test Mode

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

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

The power for TxBF mode is smaller than CDD mode, so all other conducted and radiated test is covered by CDD mode.

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

CDD Mode

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

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

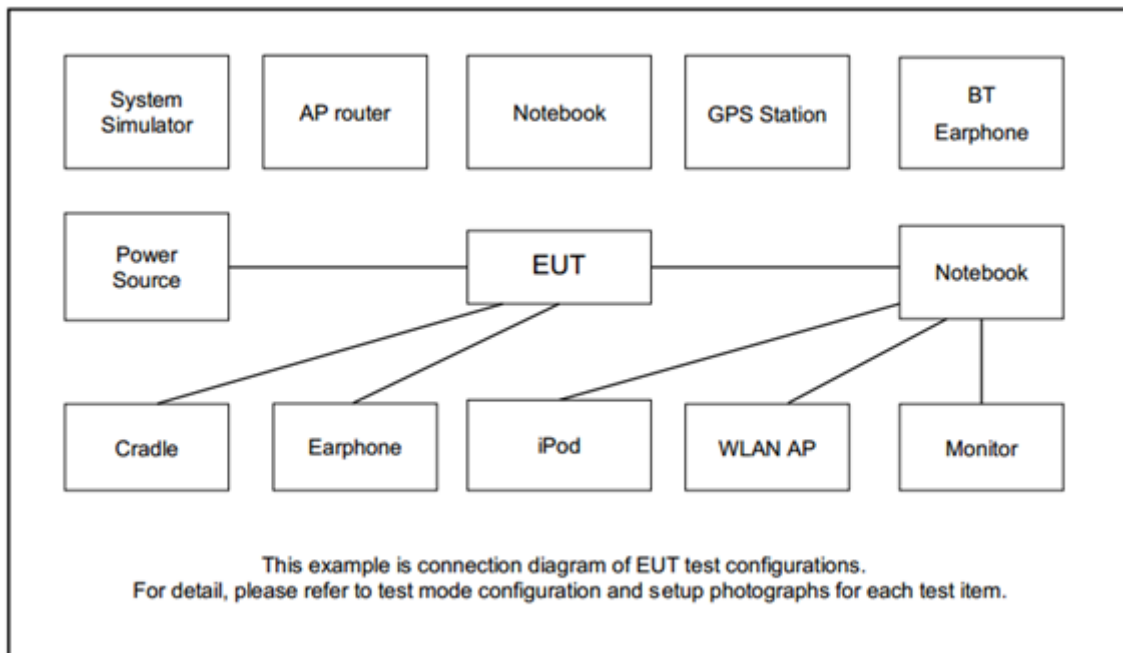
TXBF Mode

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	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) Link + Adapter			
Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-
Ch. #		Band IV : 5725-5850 MHz			
		802.11ax HE20	802.11ax HE40	802.11ax HE80	
L	Low	149	151	-	
M	Middle	157	-	155	
H	High	165	159	-	

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

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, 1.8 m
2.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “MT7906 QA 0.0.2.78” 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.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

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.

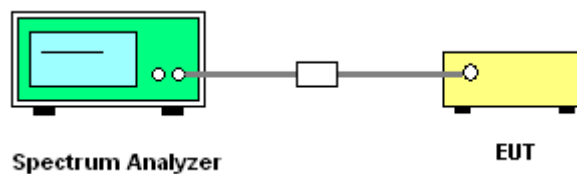
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section C) Emission bandwidth for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup



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

Please refer to Appendix A.



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

<CDD Modes>

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

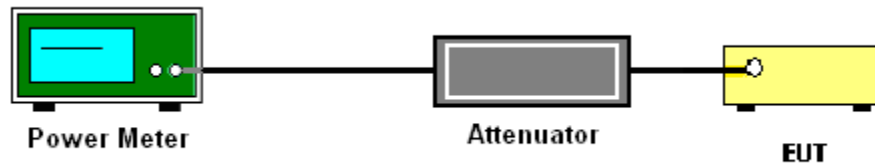
<TXBF Modes>

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

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

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

3.3.2 Measuring Instruments

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.

<CDD Modes>

Method SA-2

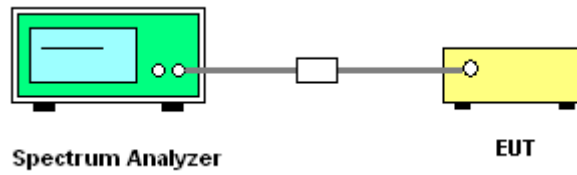
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300kHz.
 - Set VBW ≥ 1 MHz.
 - Add $10 \log(500 \text{ kHz/RBW})$ to the measured result, whereas RBW ($<500 \text{ kHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
 - Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
 - 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 $10 \log(1/0.25) = 6 \text{ dB}$ 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. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ of the PSD limit.

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) For transmitters operating in the 5.725-5.85 GHz band:

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

- (2) Unwanted spurious emissions falls 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.

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

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

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

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

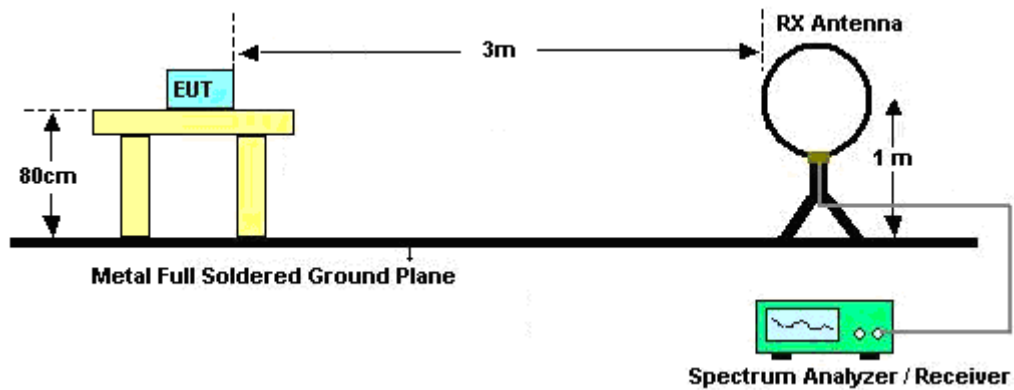
3.4.3 Test Procedures

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) 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 1000 MHz
 - 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.

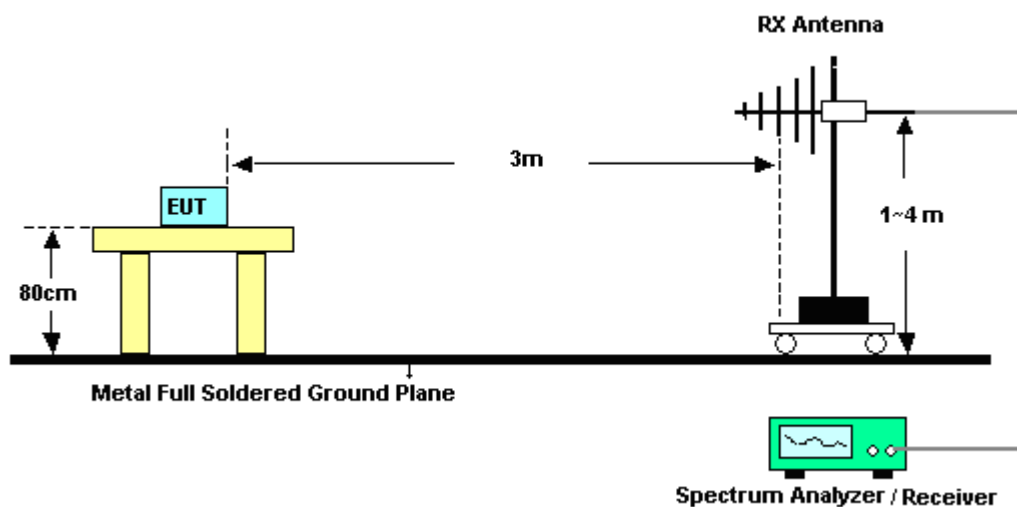
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit 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 “-”.

3.4.4 Test Setup

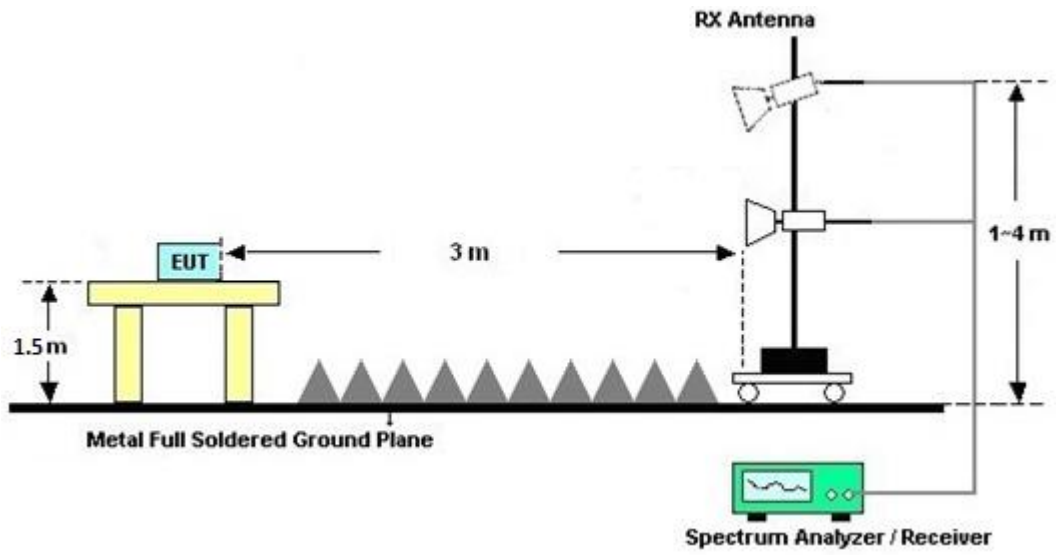
For radiated emissions below 30MHz



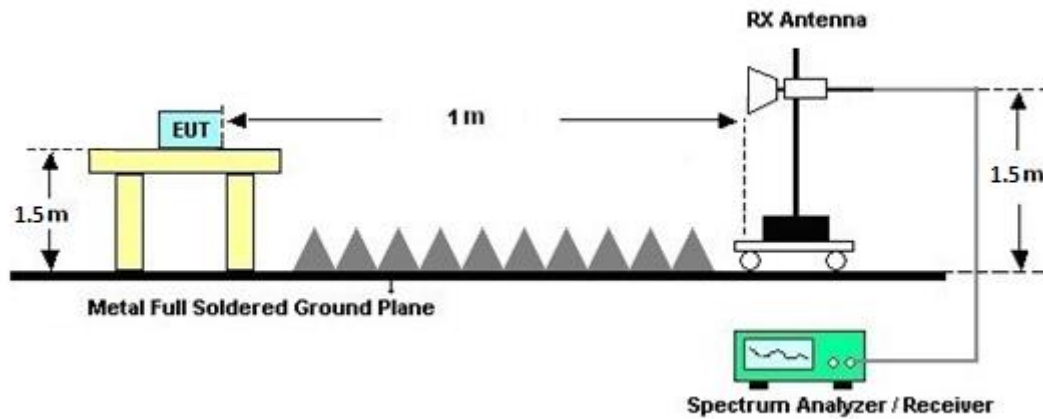
For radiated emissions from 30MHz to 1GHz



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 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.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

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.

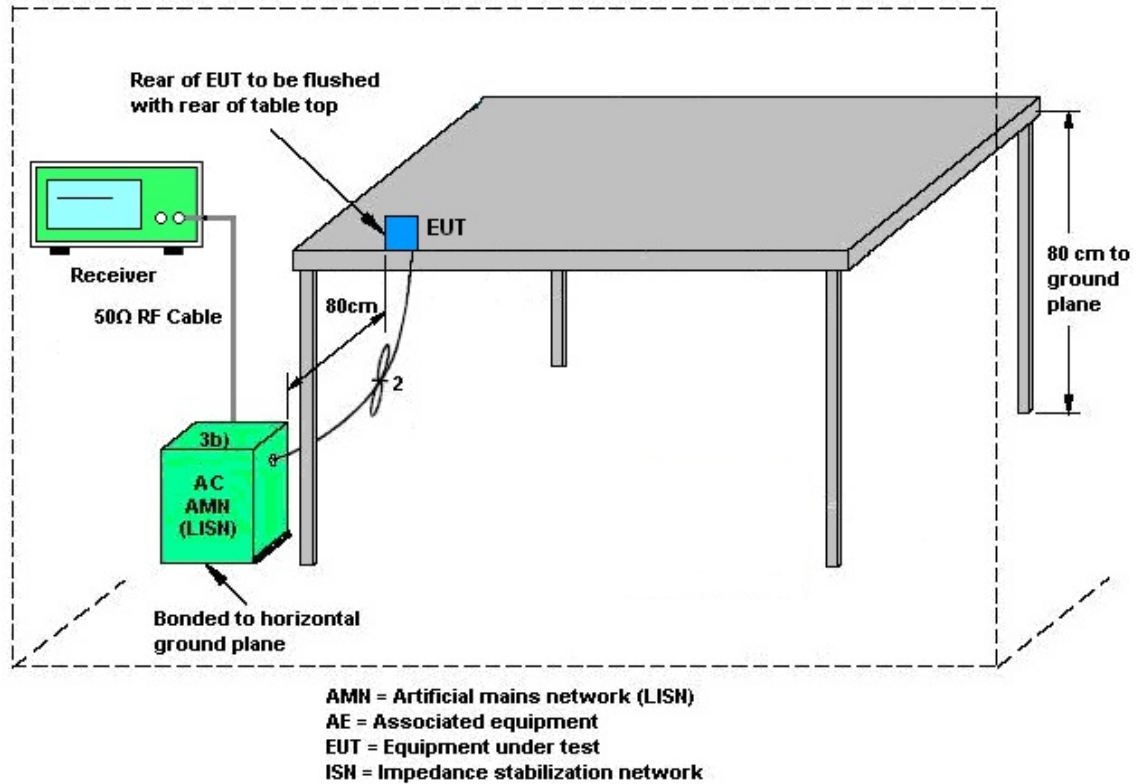
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

1. The EUT 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 shall 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.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

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

The EUT requires professional installation.



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	Sep. 12, 2023	Jun. 19, 2024~ Jun. 28, 2024	Sep. 11, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Jun. 19, 2024~ Jun. 28, 2024	Mar. 05, 2025	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187282	9kHz~1GHz	Dec. 13, 2023	Jun. 19, 2024~ Jun. 28, 2024	Dec. 12, 2024	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	40103 & 07	30MHz~1GHz	Apr. 12, 2024	Jun. 19, 2024~ Jun. 28, 2024	Apr. 11, 2025	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Aug. 17, 2023	Jun. 19, 2024~ Jun. 28, 2024	Aug. 16, 2024	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303A	TP215159	N/A	Sep. 13, 2023	Jun. 19, 2024~ Jun. 28, 2024	Sep. 12, 2024	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 15, 2024	Jun. 19, 2024~ Jun. 28, 2024	May 14, 2025	Radiation (03CH13-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz-18GHz	Jan. 09, 2024	Jun. 19, 2024~ Jun. 28, 2024	Jan. 08, 2025	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Jan. 18, 2024	Jun. 19, 2024~ Jun. 28, 2024	Jan. 17, 2025	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 12, 2023	Jun. 19, 2024~ Jun. 28, 2024	Sep. 11, 2024	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN5	6.75GHz High Pass Filter	Mar. 08, 2024	Jun. 19, 2024~ Jun. 28, 2024	Mar. 07, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 07, 2024	Jun. 19, 2024~ Jun. 28, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 07, 2024	Jun. 19, 2024~ Jun. 28, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 07, 2024	Jun. 19, 2024~ Jun. 28, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 19, 2024~ Jun. 28, 2024	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jun. 19, 2024~ Jun. 28, 2024	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 19, 2024~ Jun. 28, 2024	N/A	Radiation (03CH13-HY)
Software	Audix	N/A	RK-001124	N/A	N/A	Jun. 19, 2024~ Jun. 28, 2024	N/A	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz~40GHz	Jul. 10, 2023	Jun. 19, 2024~ Jun. 28, 2024	Jul. 09, 2024	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 30, 2023	Jun. 19, 2024~ Jun. 28, 2024	Aug. 29, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804 612/2,804614 /2	30MHz~40GHz	Oct. 24, 2023	Jun. 19, 2024~ Jun. 28, 2024	Oct. 23, 2024	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Jul. 01, 2024~ Jul. 02, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 36 (NO:35_ 144)	10MHz~6GHz	Aug. 23, 2023	Jul. 01, 2024~ Jul. 02, 2024	Aug. 22, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Jan. 24, 2024	Jul. 01, 2024~ Jul. 02, 2024	Jan. 23, 2025	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. 12, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 12, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	9561-FN00373	9kHz-200MHz	Oct. 20, 2023	Jun. 12, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Jun. 12, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Jun. 12, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Jun. 12, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Jun. 12, 2024	Sep. 19, 2024	Conduction (CO07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.44 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.50 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.20 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.60 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.30 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ju Chang	Temperature:	21~25	°C
Test Date:	2024/07/01 ~ 2024/07/02	Relative Humidity:	51~54	%

<CDD Mode>

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

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	149	5745	28.90	27.86	43.84	43.58	16.28	16.33	0.5	Pass
11a	6Mbps	2	157	5785	33.91	32.76	51.05	49.72	16.33	16.33	0.5	Pass
11a	6Mbps	2	165	5825	28.86	28.79	43.25	43.37	16.33	16.33	0.5	Pass
VHT20	MCS0	2	149	5745	30.66	29.43	46.27	45.98	17.56	17.51	0.5	Pass
VHT20	MCS0	2	157	5785	31.61	30.83	48.05	46.43	17.57	17.55	0.5	Pass
VHT20	MCS0	2	165	5825	30.53	30.09	46.64	46.91	17.55	16.94	0.5	Pass
VHT40	MCS0	2	151	5755	49.29	45.88	90.72	86.98	35.11	35.05	0.5	Pass
VHT40	MCS0	2	159	5795	53.03	49.05	90.94	89.95	35.08	35.10	0.5	Pass
VHT80	MCS0	2	155	5775	75.60	75.56	160.06	142.66	75.09	75.12	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	25.35	24.59	28.00	30.00		1.58		Pass
11a	6Mbps	2	157	5785	25.88	25.05	28.50	30.00		1.58		Pass
11a	6Mbps	2	165	5825	25.15	24.05	27.65	30.00		1.58		Pass
HT20	MCS0	2	149	5745	25.20	24.52	27.88	30.00		1.58		Pass
HT20	MCS0	2	157	5785	24.88	24.20	27.56	30.00		1.58		Pass
HT20	MCS0	2	165	5825	24.87	23.96	27.45	30.00		1.58		Pass
HT40	MCS0	2	151	5755	23.88	23.55	26.73	30.00		1.58		Pass
HT40	MCS0	2	159	5795	23.55	23.12	26.35	30.00		1.58		Pass
VHT20	MCS0	2	149	5745	25.33	24.64	28.01	30.00		1.58		Pass
VHT20	MCS0	2	157	5785	25.10	24.35	27.75	30.00		1.58		Pass
VHT20	MCS0	2	165	5825	25.07	24.11	27.63	30.00		1.58		Pass
VHT40	MCS0	2	151	5755	24.13	23.70	26.93	30.00		1.58		Pass
VHT40	MCS0	2	159	5795	23.71	23.32	26.53	30.00		1.58		Pass
VHT80	MCS0	2	155	5775	21.83	21.57	24.71	30.00		1.58		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	0.18	0.17	2.22		11.47	10.57	14.48	30.00		4.59		Pass
11a	6Mbps	2	157	5785	0.18	0.17	2.22		11.93	11.01	14.94	30.00		4.59		Pass
11a	6Mbps	2	165	5825	0.18	0.17	2.22		11.17	9.82	14.18	30.00		4.59		Pass
VHT20	MCS0	2	149	5745	0.18	0.18	2.22		11.16	10.38	14.17	30.00		4.59		Pass
VHT20	MCS0	2	157	5785	0.18	0.18	2.22		10.89	10.17	13.90	30.00		4.59		Pass
VHT20	MCS0	2	165	5825	0.18	0.18	2.22		10.56	10.22	13.57	30.00		4.59		Pass
VHT40	MCS0	2	151	5755	0.35	0.38	2.22		7.81	7.46	10.82	30.00		4.59		Pass
VHT40	MCS0	2	159	5795	0.35	0.38	2.22		7.37	7.21	10.38	30.00		4.59		Pass
VHT80	MCS0	2	155	5775	0.69	0.69	2.22		2.79	2.77	5.80	30.00		4.59		Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

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

U-NII-3 MIMO													
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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	31.15	29.84	49.34	48.58	18.31	18.67	0.5	Pass
HE20	MCS0	2	157	5785	Full	31.63	30.73	51.62	48.54	18.60	18.11	0.5	Pass
HE20	MCS0	2	165	5825	Full	30.79	29.91	49.02	47.50	17.36	18.34	0.5	Pass
HE40	MCS0	2	151	5755	Full	53.07	50.37	94.62	92.46	35.23	35.85	0.5	Pass
HE40	MCS0	2	159	5795	Full	46.02	43.78	88.67	78.35	35.10	35.12	0.5	Pass
HE80	MCS0	2	155	5775	Full	77.19	77.18	107.78	126.53	73.89	75.09	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	25.39	24.65	28.05	30.00		1.58		Pass
HE20	MCS0	2	157	5785	Full	25.21	24.33	27.80	30.00		1.58		Pass
HE20	MCS0	2	165	5825	Full	25.17	24.13	27.69	30.00		1.58		Pass
HE40	MCS0	2	151	5755	Full	25.08	24.34	27.74	30.00		1.58		Pass
HE40	MCS0	2	159	5795	Full	23.63	22.91	26.30	30.00		1.58		Pass
HE80	MCS0	2	155	5775	Full	21.66	21.42	24.55	30.00		1.58		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	0.23	0.25	2.22		10.72	10.20	13.73	30.00		4.59		Pass
HE20	MCS0	2	157	5785	Full	0.23	0.25	2.22		10.39	9.93	13.40	30.00		4.59		Pass
HE20	MCS0	2	165	5825	Full	0.23	0.25	2.22		10.43	9.59	13.44	30.00		4.59		Pass
HE40	MCS0	2	151	5755	Full	0.41	0.41	2.22		8.42	7.87	11.43	30.00		4.59		Pass
HE40	MCS0	2	159	5795	Full	0.41	0.41	2.22		6.92	6.73	9.93	30.00		4.59		Pass
HE80	MCS0	2	155	5775	Full	0.75	0.78	2.22		2.48	2.35	5.49	30.00		4.59		Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

<TXBF Mode>

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	149	5745	25.03	24.25	27.67	30.00		4.59		Pass
HT20	MCS0	2	157	5785	24.78	24.08	27.45	30.00		4.59		Pass
HT20	MCS0	2	165	5825	24.78	23.82	27.34	30.00		4.59		Pass
HT40	MCS0	2	151	5755	23.88	23.37	26.64	30.00		4.59		Pass
HT40	MCS0	2	159	5795	23.42	23.01	26.23	30.00		4.59		Pass
VHT20	MCS0	2	149	5745	25.20	24.44	27.85	30.00		4.59		Pass
VHT20	MCS0	2	157	5785	24.99	24.18	27.61	30.00		4.59		Pass
VHT20	MCS0	2	165	5825	24.88	24.01	27.48	30.00		4.59		Pass
VHT40	MCS0	2	151	5755	23.89	23.54	26.73	30.00		4.59		Pass
VHT40	MCS0	2	159	5795	23.44	23.18	26.32	30.00		4.59		Pass
VHT80	MCS0	2	155	5775	21.69	21.33	24.52	30.00		4.59		Pass

TEST RESULTS DATA
Average Power Table

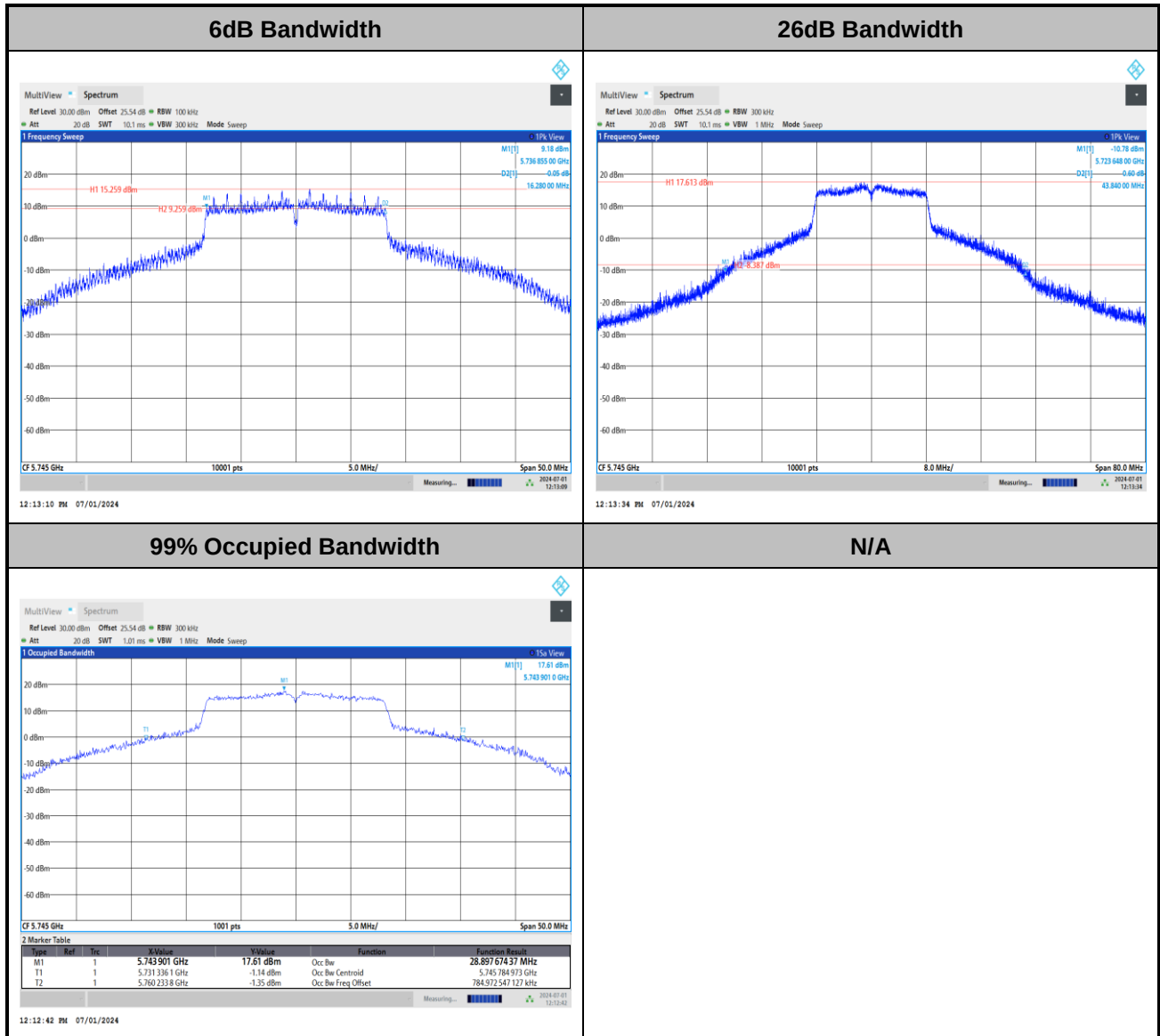
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						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	25.11	24.48	27.82	30.00		4.59		Pass
HE20	MCS0	2	157	5785	Full	25.00	24.20	27.63	30.00		4.59		Pass
HE20	MCS0	2	165	5825	Full	25.06	24.00	27.57	30.00		4.59		Pass
HE40	MCS0	2	151	5755	Full	24.88	24.04	27.49	30.00		4.59		Pass
HE40	MCS0	2	159	5795	Full	23.47	22.77	26.14	30.00		4.59		Pass
HE80	MCS0	2	155	5775	Full	21.50	21.30	24.41	30.00		4.59		Pass



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

MIMO <Ant. 1+2>

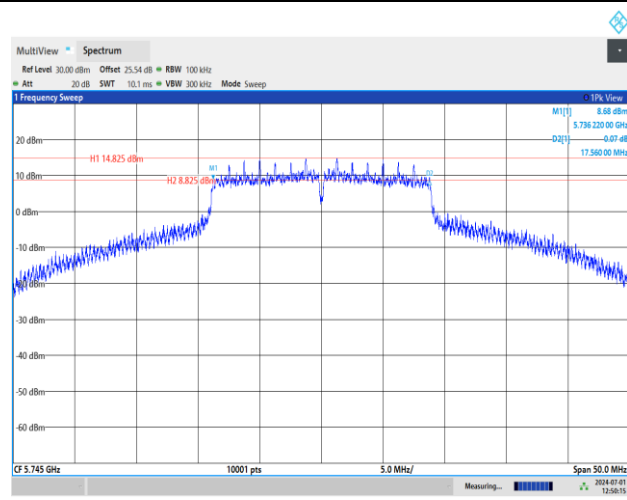
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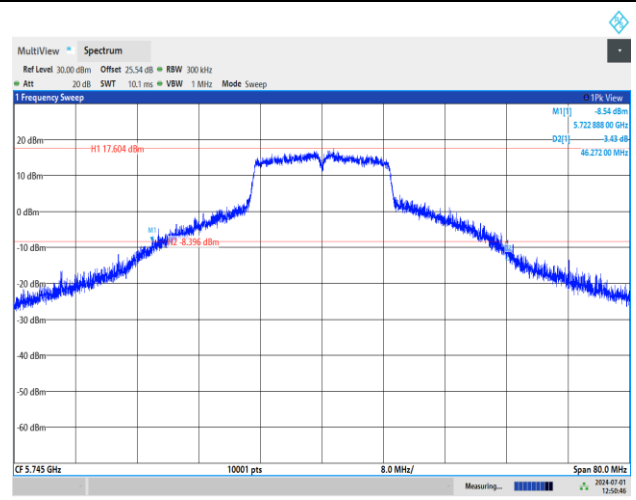
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6dB Bandwidth



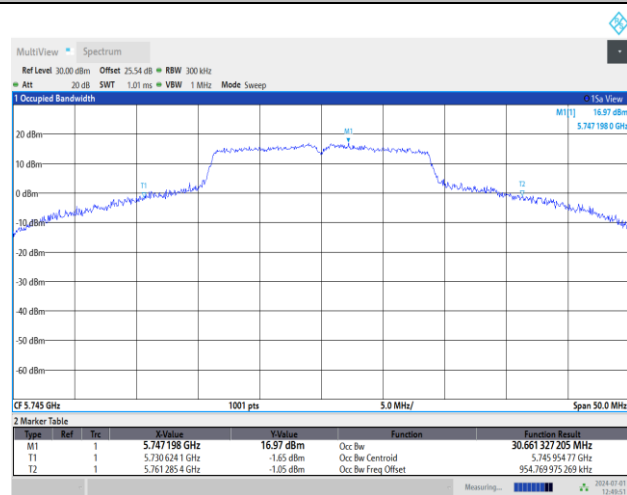
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26dB Bandwidth



12:50:46 PM 07/01/2024

99% Occupied Bandwidth



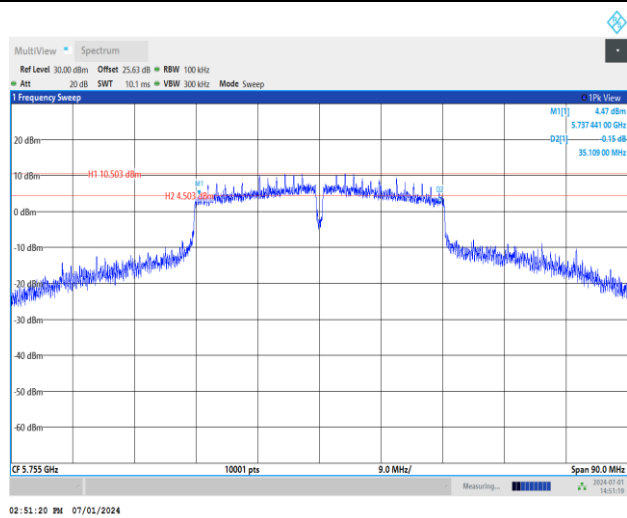
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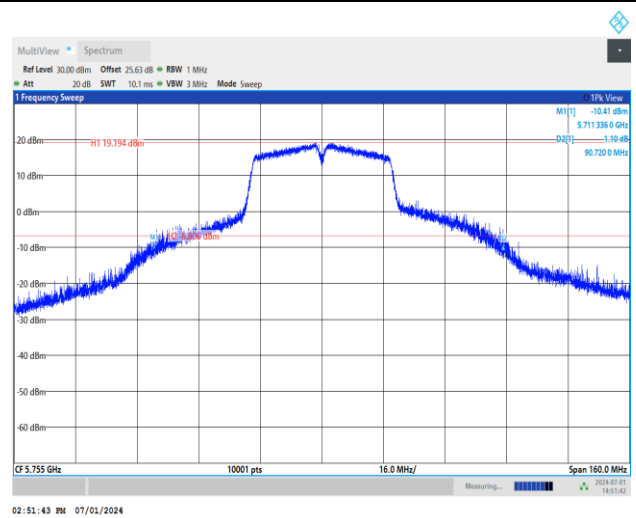


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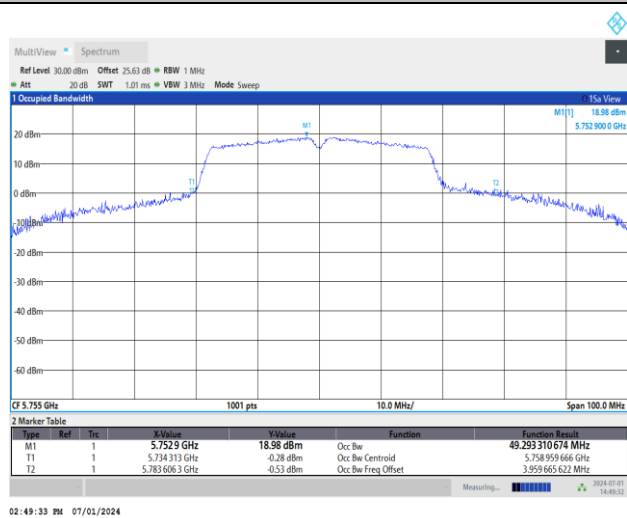
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

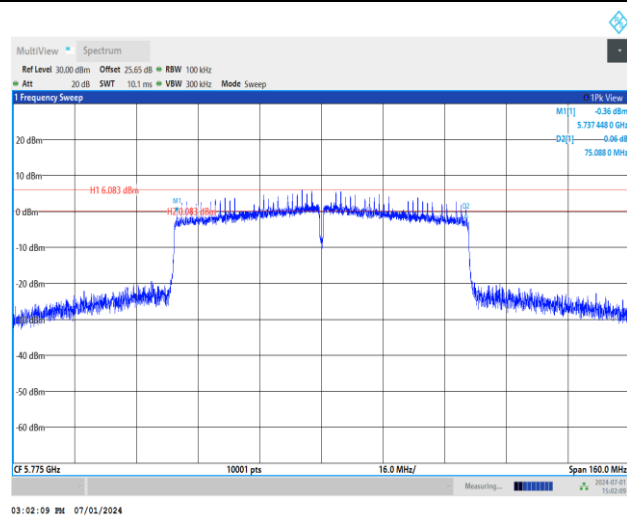


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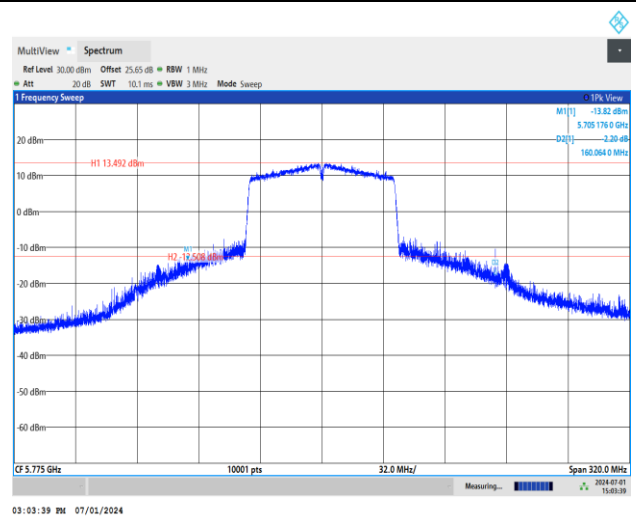


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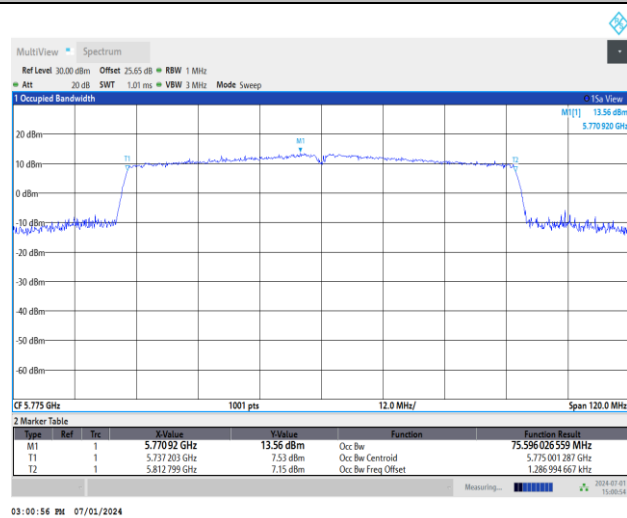
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

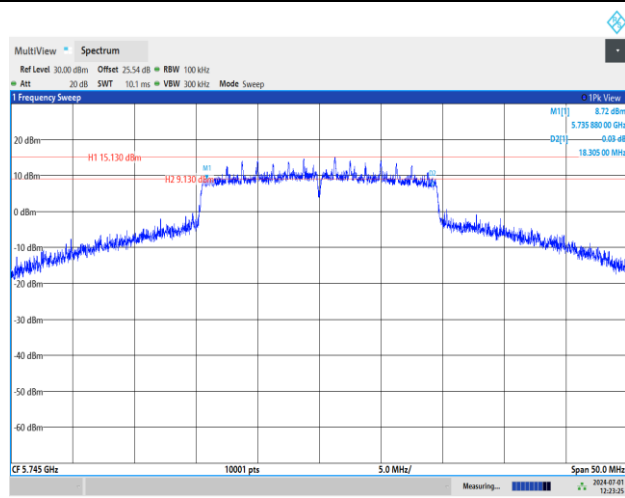


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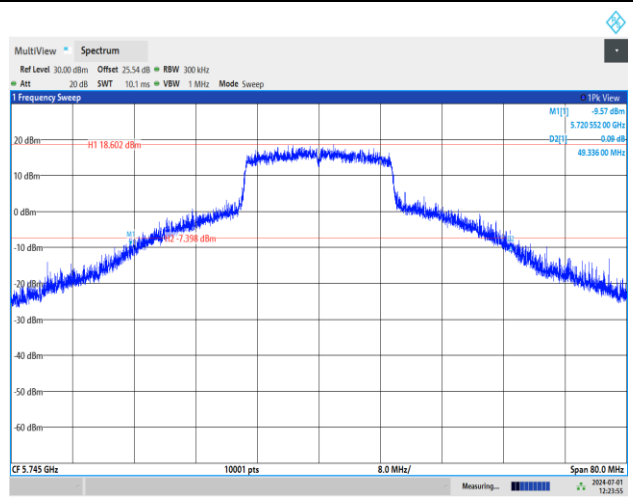
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6dB Bandwidth



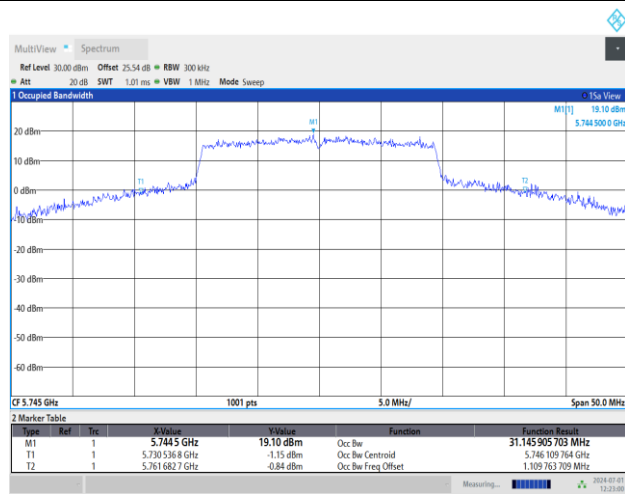
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26dB Bandwidth



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99% Occupied Bandwidth



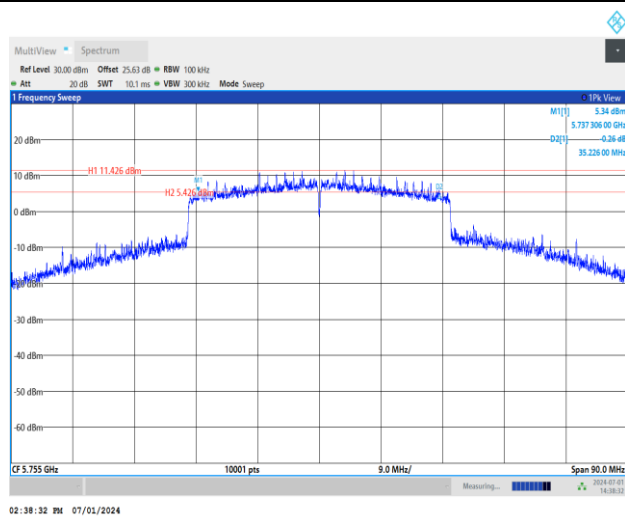
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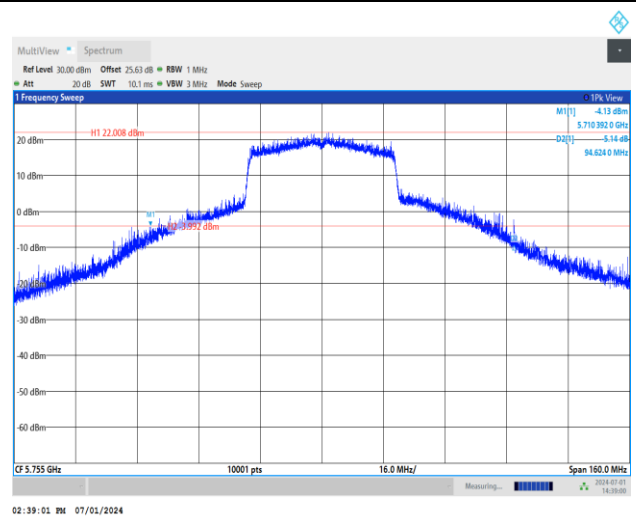


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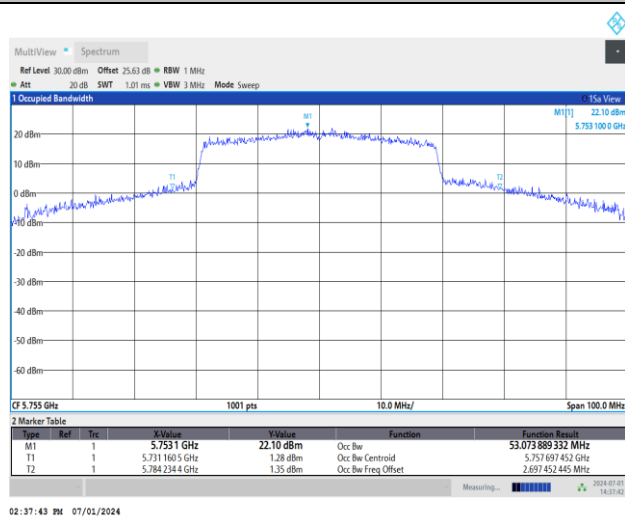
6dB Bandwidth



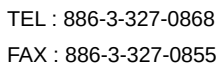
26dB Bandwidth



99% Occupied Bandwidth



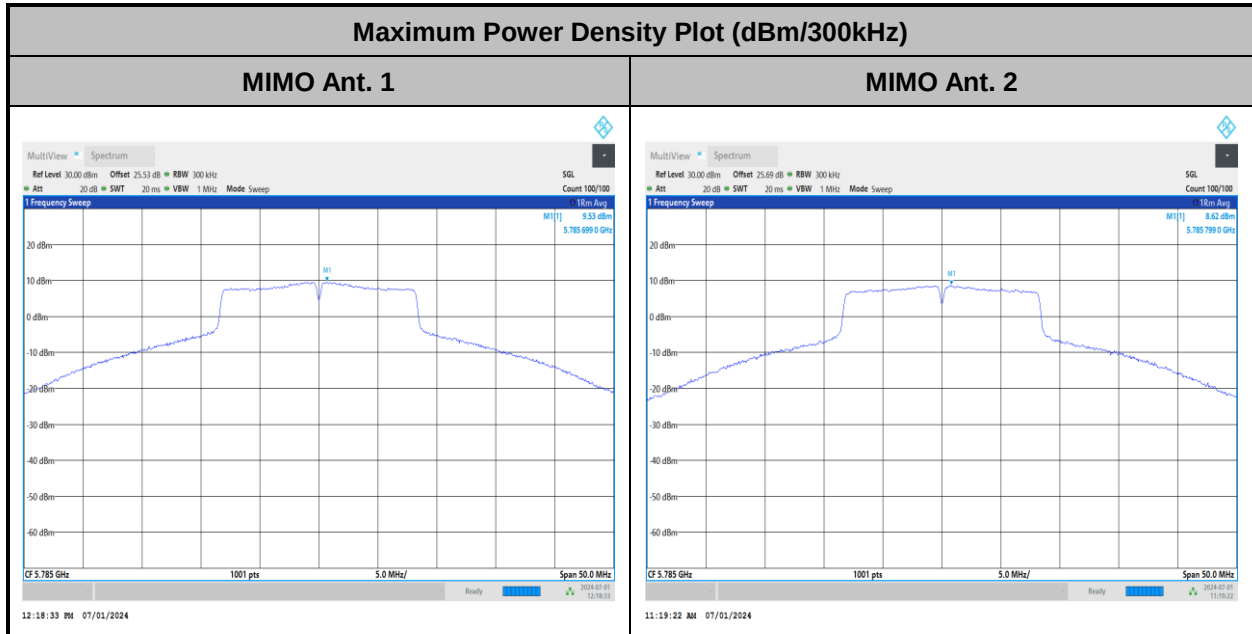
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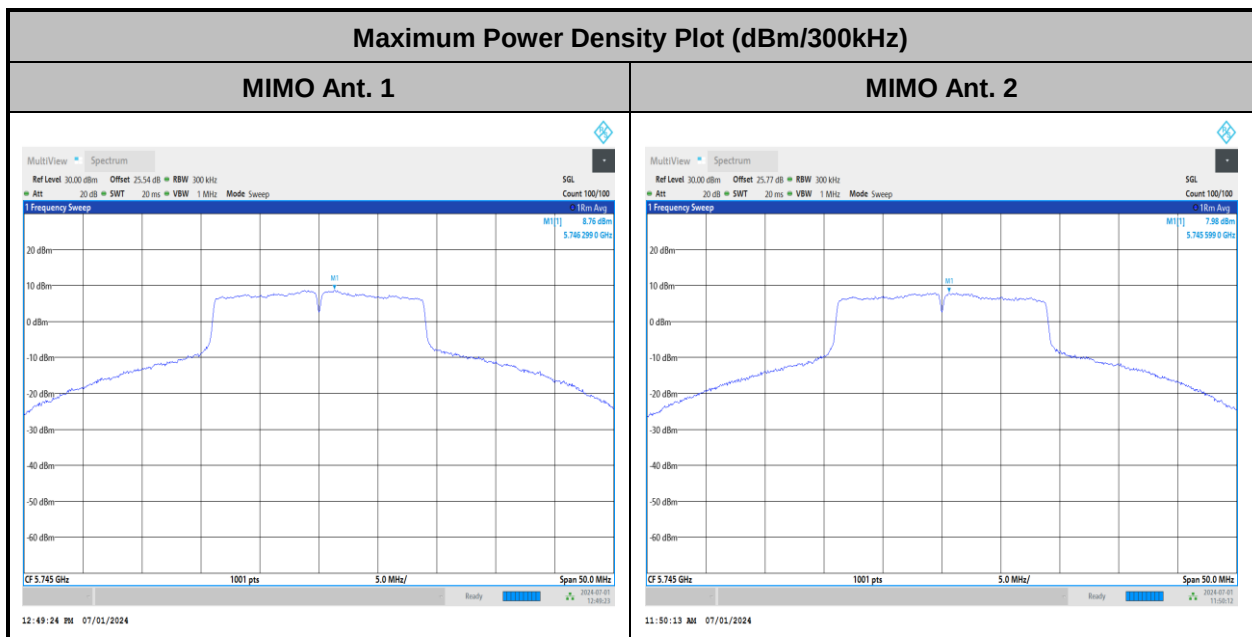


Test Result of Power Spectral Density

<802.11a>

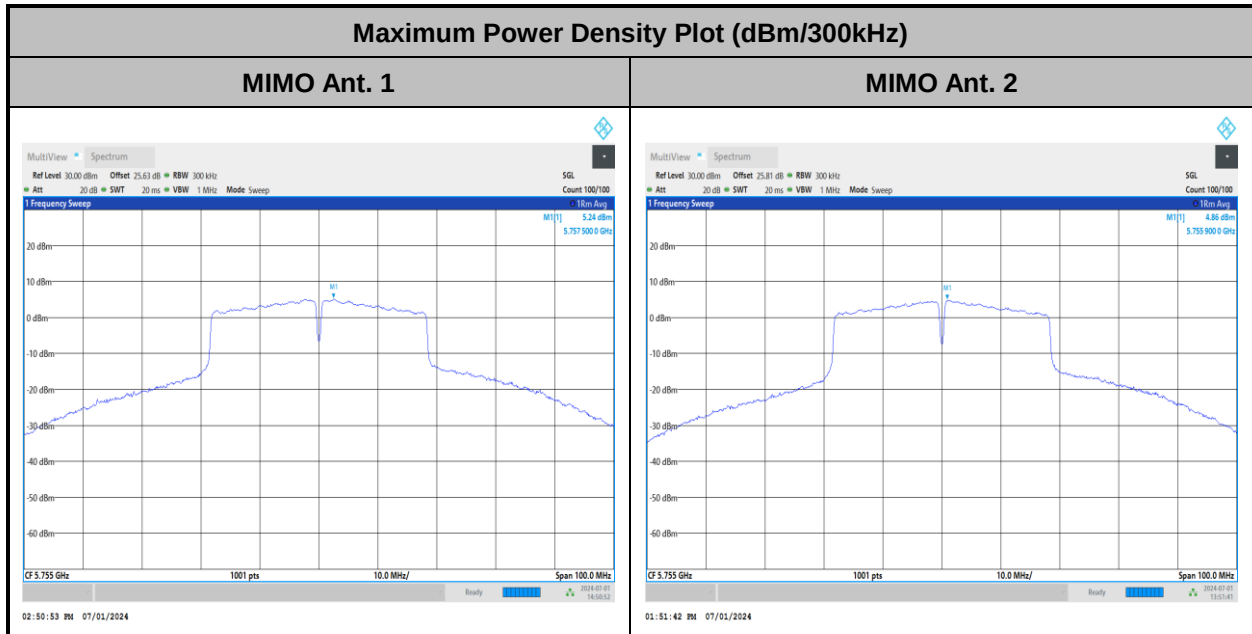


<802.11ac VHT20>

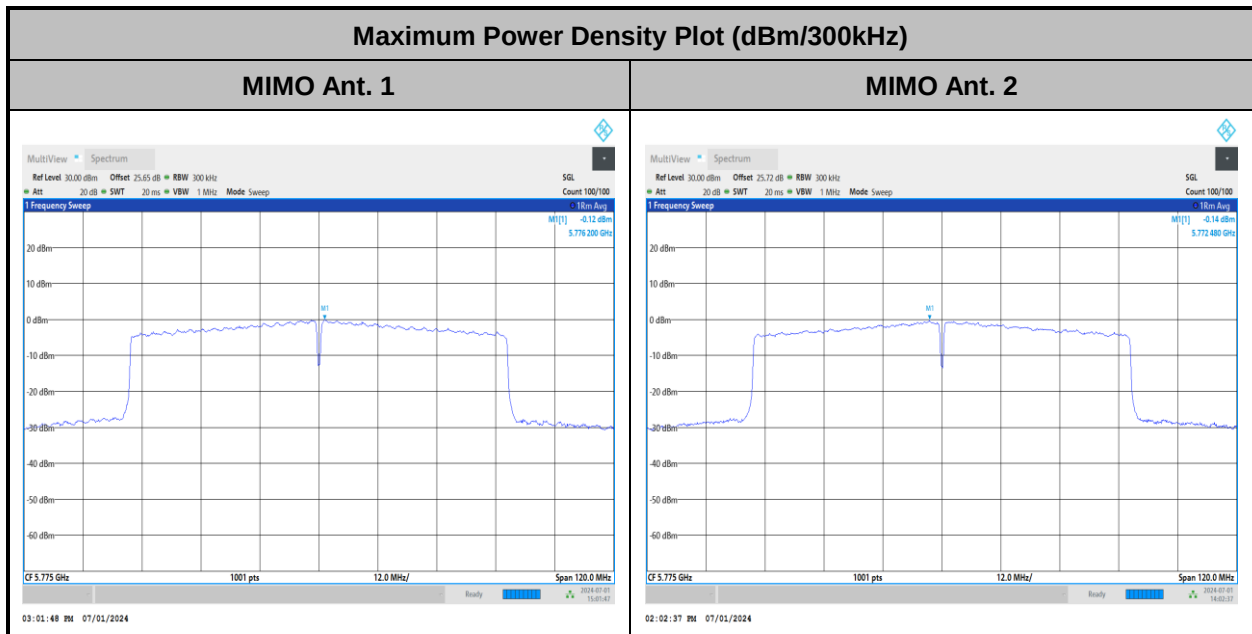




<802.11ac VHT40>

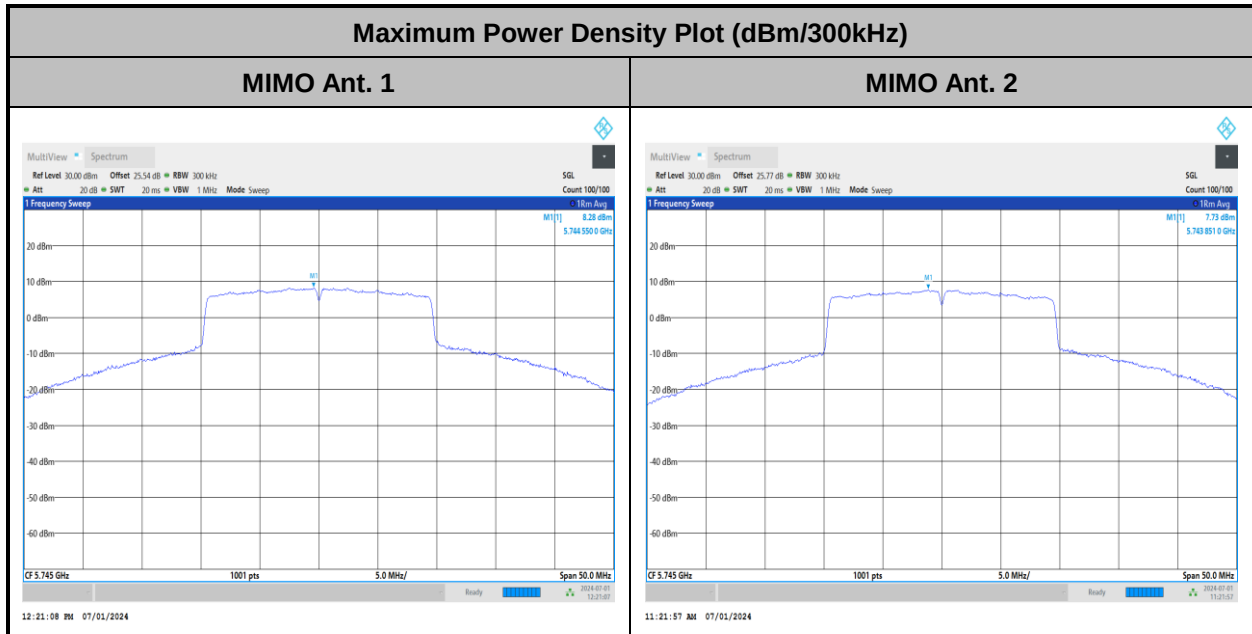


<802.11ac VHT80>

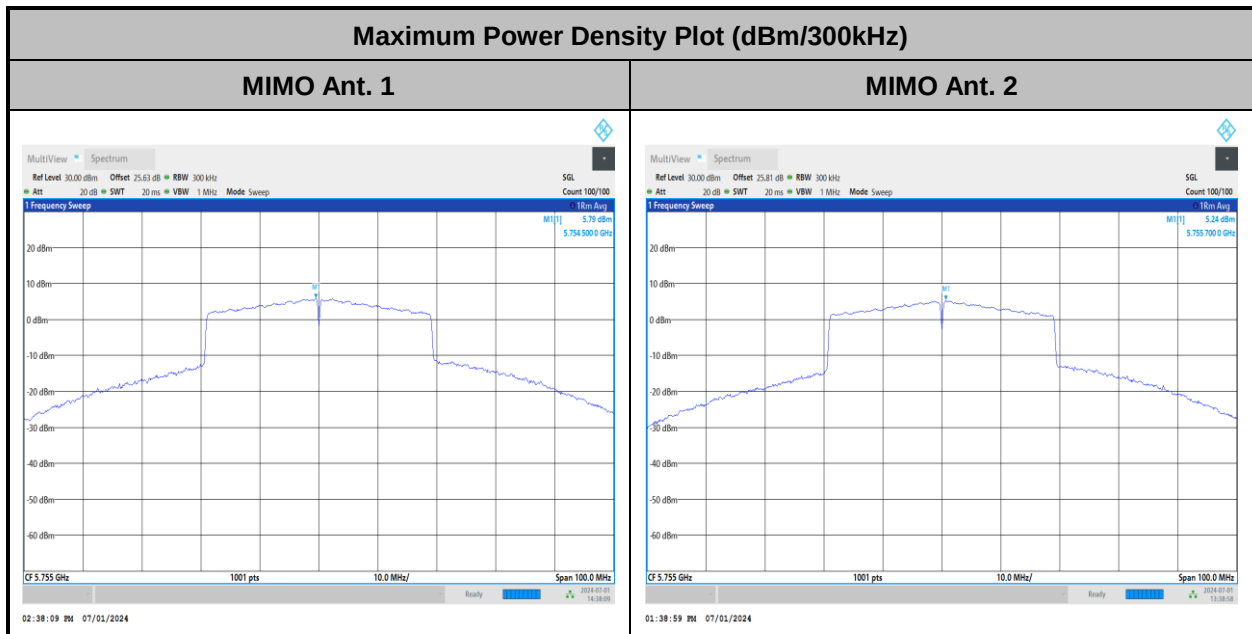




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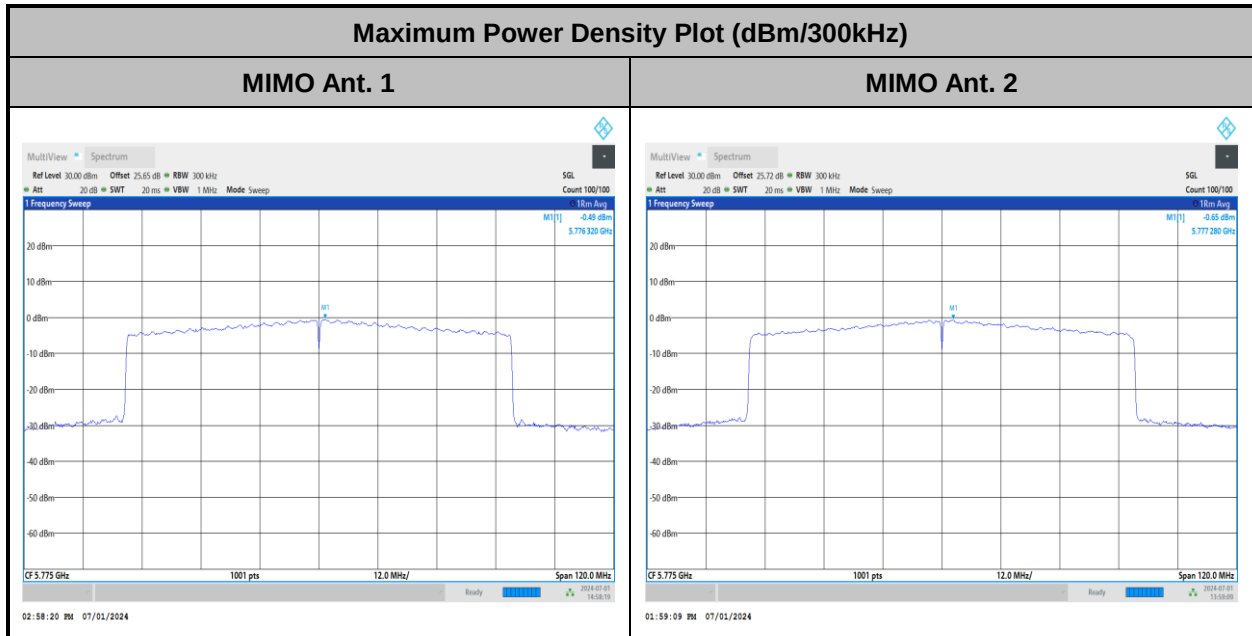


<802.11ax HE40>





<802.11ax HE80>





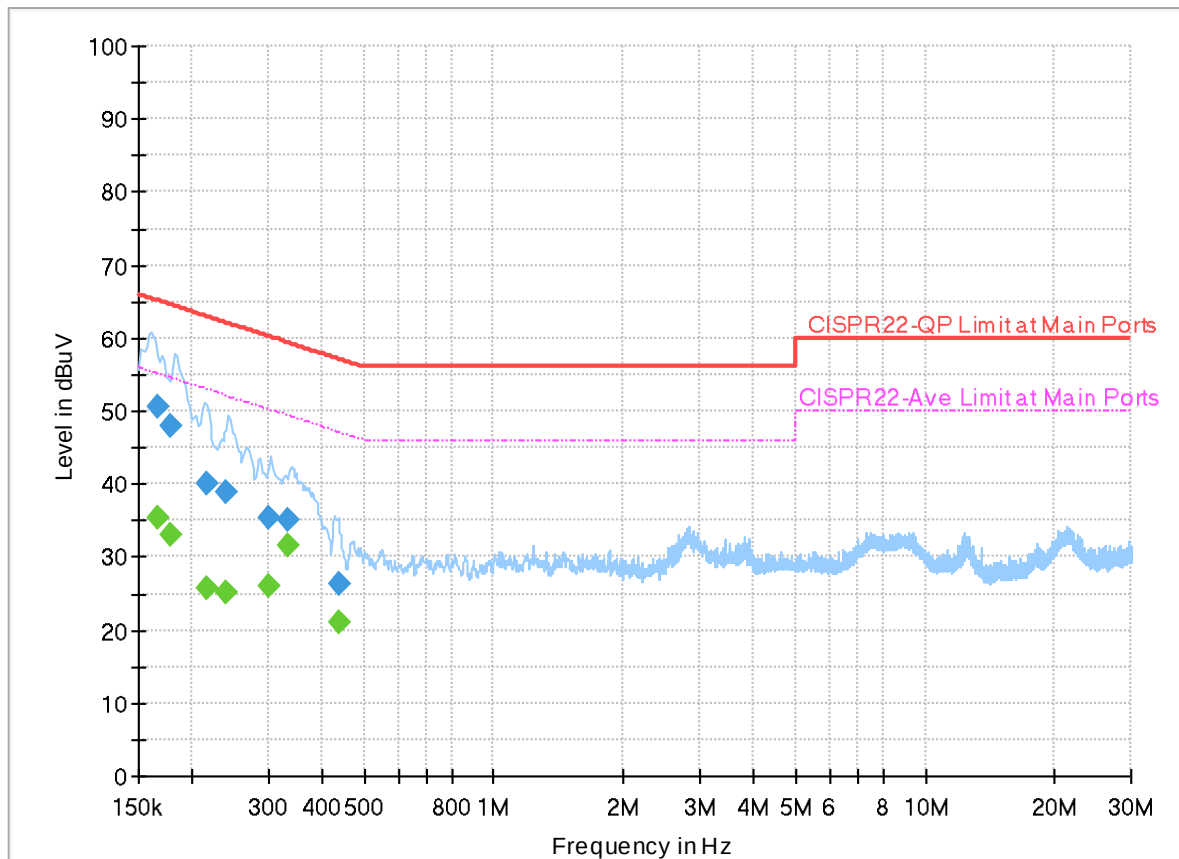
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	22.3~25.7°C
		Relative Humidity :	42.5~48.6%

EUT Information

Report NO : 450904
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



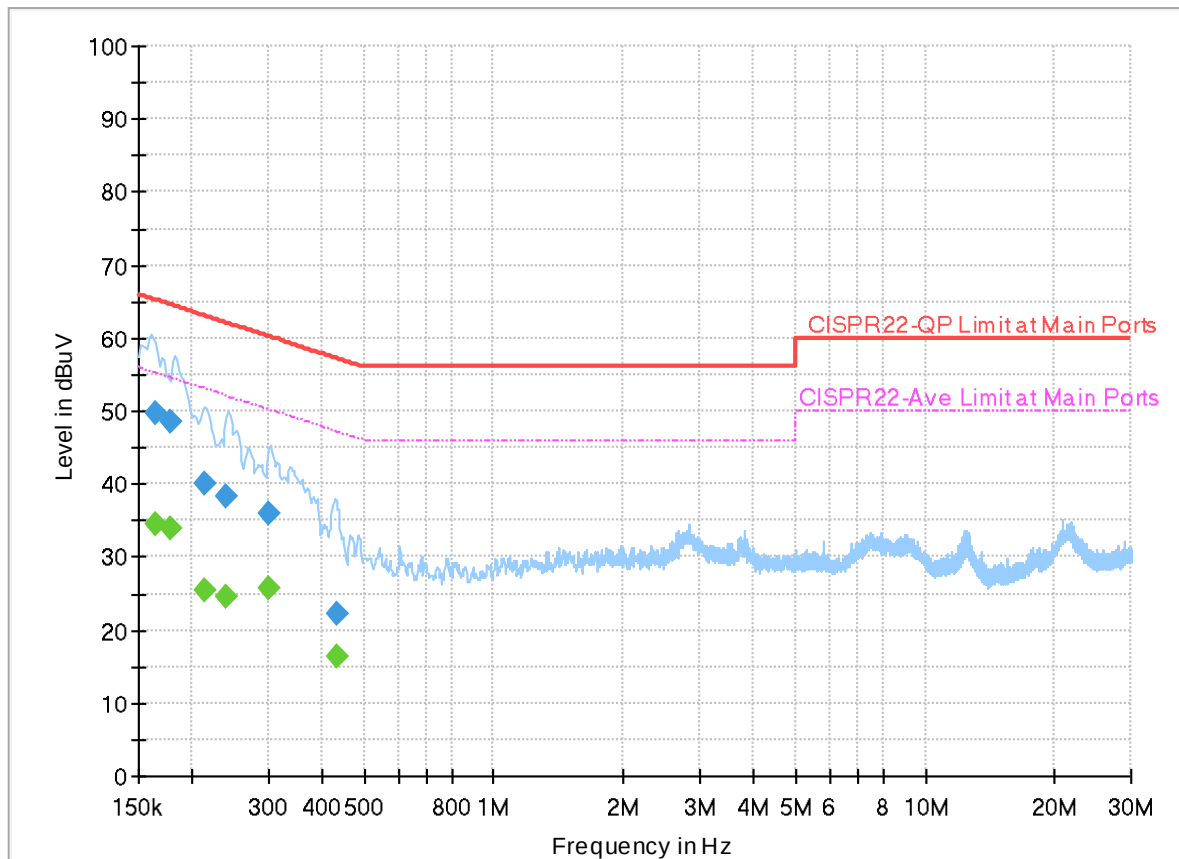
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	35.26	55.17	19.91	L1	OFF	19.9
0.165750	50.48	---	65.17	14.69	L1	OFF	19.9
0.178260	---	33.08	54.57	21.49	L1	OFF	19.9
0.178260	47.88	---	64.57	16.69	L1	OFF	19.9
0.216150	---	25.85	52.97	27.12	L1	OFF	19.9
0.216150	40.00	---	62.97	22.97	L1	OFF	19.9
0.238020	---	25.20	52.17	26.97	L1	OFF	19.9
0.238020	38.86	---	62.17	23.31	L1	OFF	19.9
0.300750	---	25.88	50.22	24.34	L1	OFF	19.9
0.300750	35.35	---	60.22	24.87	L1	OFF	19.9
0.334590	---	31.45	49.34	17.89	L1	OFF	19.9
0.334590	35.07	---	59.34	24.27	L1	OFF	19.9
0.440070	---	20.97	47.06	26.09	L1	OFF	19.9
0.440070	26.27	---	57.06	30.79	L1	OFF	19.9

EUT Information

Report NO : 450904
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	Filter	Corr. (dB)
0.163860	---	34.47	55.27	20.80	N	OFF	19.9
0.163860	49.81	---	65.27	15.46	N	OFF	19.9
0.177000	---	33.85	54.63	20.78	N	OFF	19.9
0.177000	48.39	---	64.63	16.24	N	OFF	19.9
0.214260	---	25.44	53.04	27.60	N	OFF	19.9
0.214260	40.19	---	63.04	22.85	N	OFF	19.9
0.239730	---	24.47	52.11	27.64	N	OFF	19.9
0.239730	38.28	---	62.11	23.83	N	OFF	19.9
0.300750	---	25.60	50.22	24.62	N	OFF	19.9
0.300750	35.85	---	60.22	24.37	N	OFF	19.9
0.433500	---	16.24	47.19	30.95	N	OFF	19.9
0.433500	22.09	---	57.19	35.10	N	OFF	19.9



Appendix C. Radiated Spurious Emission

Test Engineer :	Rain Lee, Jacky Hong, and Mancy Chou	Temperature :	20~26°C
		Relative Humidity :	40~65%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5646.8	53.03	-15.17	68.2	49.68	33.19	7.02	36.86	320	81	P	H
		5697.2	70.79	-32.35	103.14	67.13	33.48	7.05	36.87	320	81	P	H
		5717	82.28	-27.68	109.96	78.49	33.6	7.06	36.87	320	81	P	H
		5722.2	90.57	-25.25	115.82	86.75	33.63	7.06	36.87	320	81	P	H
	*	5745	115.6	-	-	111.64	33.77	7.07	36.88	320	81	P	H
	*	5745	109.24	-	-	105.28	33.77	7.07	36.88	320	81	A	H
													H
													H
		5636.6	58.72	-9.48	68.2	55.38	33.17	7.02	36.85	400	207	P	V
		5696.2	71.84	-30.56	102.4	68.18	33.48	7.05	36.87	400	207	P	V
		5717.2	87.48	-22.54	110.02	83.69	33.6	7.06	36.87	400	207	P	V
		5722.4	92.82	-23.45	116.27	89	33.63	7.06	36.87	400	207	P	V
	*	5745	116.89	-	-	112.93	33.77	7.07	36.88	400	207	P	V
	*	5745	110.67	-	-	106.71	33.77	7.07	36.88	400	207	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5649.4	55.13	-13.07	68.2	51.77	33.2	7.02	36.86	304	87	P	H
		5699.4	66.57	-38.19	104.76	62.89	33.5	7.05	36.87	304	87	P	H
		5718.4	73.69	-36.66	110.35	69.89	33.61	7.06	36.87	304	87	P	H
		5722.8	75.38	-41.8	117.18	71.55	33.64	7.06	36.87	304	87	P	H
	*	5785	115.2	-	-	111.06	33.94	7.09	36.89	304	87	P	H
	*	5785	109.06	-	-	104.92	33.94	7.09	36.89	304	87	A	H
		5850	76.23	-45.97	122.2	71.82	34.2	7.11	36.9	304	87	P	H
		5863.6	73.37	-35.02	108.39	68.88	34.28	7.12	36.91	304	87	P	H
		5878.8	69.86	-32.52	102.38	65.28	34.37	7.12	36.91	304	87	P	H
		5925.2	59.24	-8.96	68.2	54.52	34.5	7.14	36.92	304	87	P	H
													H
													H
		5636.6	57.18	-11.02	68.2	53.84	33.17	7.02	36.85	400	318	P	V
		5699.2	70	-34.61	104.61	66.32	33.5	7.05	36.87	400	318	P	V
		5719.2	77.1	-33.48	110.58	73.29	33.62	7.06	36.87	400	318	P	V
		5724.8	78.62	-43.12	121.74	74.78	33.65	7.06	36.87	400	318	P	V
	*	5785	116.71	-	-	112.57	33.94	7.09	36.89	400	318	P	V
	*	5785	110.52	-	-	106.38	33.94	7.09	36.89	400	318	A	V
		5850.8	79.79	-40.59	120.38	75.37	34.2	7.12	36.9	400	318	P	V
		5864.4	78.59	-29.58	108.17	74.09	34.29	7.12	36.91	400	318	P	V
		5881.2	74.5	-26.09	100.59	69.9	34.39	7.12	36.91	400	318	P	V
		5930.2	64.21	-3.99	68.2	59.49	34.5	7.14	36.92	400	318	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	114.22	-	-	109.91	34.1	7.11	36.9	258	87	P	H
	*	5825	108.18	-	-	103.87	34.1	7.11	36.9	258	87	A	H
		5853	85.82	-29.54	115.36	81.38	34.22	7.12	36.9	258	87	P	H
		5857.4	85.1	-25.03	110.13	80.65	34.24	7.12	36.91	258	87	P	H
		5875	71.56	-33.64	105.2	67	34.35	7.12	36.91	258	87	P	H
		5927.2	56.44	-11.76	68.2	51.72	34.5	7.14	36.92	258	87	P	H
													H
													H
	*	5825	116.94	-	-	112.63	34.1	7.11	36.9	400	321	P	V
	*	5825	110.31	-	-	106	34.1	7.11	36.9	400	321	A	V
		5850.2	89.84	-31.9	121.74	85.42	34.2	7.12	36.9	400	321	P	V
		5855	87.9	-22.9	110.8	83.46	34.23	7.12	36.91	400	321	P	V
		5876.4	75.09	-29.07	104.16	70.52	34.36	7.12	36.91	400	321	P	V
		5930.4	61.73	-6.47	68.2	57.01	34.5	7.14	36.92	400	321	P	V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	46.53	-27.47	74	51.86	38.9	11.81	56.04	-	-	P	H
		17235	56.92	-11.28	68.2	60.64	38.57	14.23	56.52	189	125	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	47.27	-26.73	74	52.6	38.9	11.81	56.04	-	-	P	V
		17235	56.4	-11.8	68.2	60.12	38.57	14.23	56.52	100	259	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		11570	46.74	-27.26	74	52.27	38.68	11.83	56.04	-	-	P	H
		17355	60.55	-7.65	68.2	64.16	38.8	14.31	56.72	251	123	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	47.98	-26.02	74	53.51	38.68	11.83	56.04	-	-	P	V
		17355	58.54	-9.66	68.2	62.15	38.8	14.31	56.72	100	259	P	V
													V
													V
													V
													V
													V
													V
													V
													V

[illegible]

**Band 4 5725~5850MHz****WIFI 802.11ac VHT20 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 149 5745MHz		5646.6	56.43	-11.77	68.2	53.08	33.19	7.02	36.86	322	94	P	H
		5696.2	73.04	-29.36	102.4	69.38	33.48	7.05	36.87	322	94	P	H
		5716.4	89.38	-20.41	109.79	85.59	33.6	7.06	36.87	322	94	P	H
		5723.4	93.7	-24.85	118.55	89.87	33.64	7.06	36.87	322	94	P	H
	*	5745	114.12	-	-	110.16	33.77	7.07	36.88	322	94	P	H
	*	5745	108.7	-	-	104.74	33.77	7.07	36.88	322	94	A	H
													H
													H
		5644.2	61.02	-7.18	68.2	57.66	33.19	7.02	36.85	400	43	P	V
		5699.4	79.43	-25.33	104.76	75.75	33.5	7.05	36.87	400	43	P	V
		5719.6	91.2	-19.49	110.69	87.39	33.62	7.06	36.87	400	43	P	V
		5724.4	99.45	-21.38	120.83	95.61	33.65	7.06	36.87	400	43	P	V
	*	5745	117.84	-	-	113.88	33.77	7.07	36.88	400	43	P	V
	*	5745	109.83	-	-	105.87	33.77	7.07	36.88	400	43	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 157 5785MHz		5623.6	50.91	-17.29	68.2	47.6	33.15	7.01	36.85	304	87	P	H
		5697	58.77	-44.22	102.99	55.11	33.48	7.05	36.87	304	87	P	H
		5716.8	65.21	-44.7	109.91	61.42	33.6	7.06	36.87	304	87	P	H
		5723	65.67	-51.97	117.64	61.84	33.64	7.06	36.87	304	87	P	H
	*	5785	115.71	-	-	111.57	33.94	7.09	36.89	304	87	P	H
	*	5785	107.86	-	-	103.72	33.94	7.09	36.89	304	87	A	H
		5852.6	66.39	-49.88	116.27	61.95	34.22	7.12	36.9	304	87	P	H
		5864.4	66.03	-42.14	108.17	61.53	34.29	7.12	36.91	304	87	P	H
		5879.6	61.38	-40.4	101.78	56.79	34.38	7.12	36.91	304	87	P	H
		5934	53.06	-15.14	68.2	48.34	34.5	7.14	36.92	304	87	P	H
													H
													H
		5626.4	51.94	-16.26	68.2	48.63	33.15	7.01	36.85	385	314	P	V
		5698.6	60.77	-43.4	104.17	57.1	33.49	7.05	36.87	385	314	P	V
		5719.2	65.78	-44.8	110.58	61.97	33.62	7.06	36.87	385	314	P	V
		5724.6	69.62	-51.67	121.29	65.78	33.65	7.06	36.87	385	314	P	V
	*	5785	115.39	-	-	111.25	33.94	7.09	36.89	385	314	P	V
	*	5785	109.43	-	-	105.29	33.94	7.09	36.89	385	314	A	V
		5854.8	70.41	-40.85	111.26	65.97	34.23	7.12	36.91	385	314	P	V
		5855	69.77	-41.03	110.8	65.33	34.23	7.12	36.91	385	314	P	V
		5877.2	69.61	-33.96	103.57	65.04	34.36	7.12	36.91	385	314	P	V
		5927.2	58.84	-9.36	68.2	54.12	34.5	7.14	36.92	385	314	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 165 5825MHz	*	5825	114	-	-	109.69	34.1	7.11	36.9	258	86	P	H
	*	5825	107.23	-	-	102.92	34.1	7.11	36.9	258	86	A	H
		5850	87.57	-34.63	122.2	83.16	34.2	7.11	36.9	258	86	P	H
		5855	82.52	-28.28	110.8	78.08	34.23	7.12	36.91	258	86	P	H
		5877.2	72.37	-31.2	103.57	67.8	34.36	7.12	36.91	258	86	P	H
		5927.8	60.33	-7.87	68.2	55.61	34.5	7.14	36.92	258	86	P	H
													H
													H
	*	5825	116.51	-	-	112.2	34.1	7.11	36.9	400	314	P	V
	*	5825	109.44	-	-	105.13	34.1	7.11	36.9	400	314	A	V
		5852	89.2	-28.44	117.64	84.77	34.21	7.12	36.9	400	314	P	V
		5859	85.94	-23.74	109.68	81.48	34.25	7.12	36.91	400	314	P	V
		5877	72.99	-30.72	103.71	68.42	34.36	7.12	36.91	400	314	P	V
		5925.8	62.53	-5.67	68.2	57.81	34.5	7.14	36.92	400	314	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 149 5745MHz		11490	46.37	-27.63	74	51.7	38.9	11.81	56.04	-	-	P	H
		17235	56.25	-11.95	68.2	59.97	38.57	14.23	56.52	200	124	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	46.71	-27.29	74	52.04	38.9	11.81	56.04	-	-	P	V
		17235	56.96	-11.24	68.2	60.68	38.57	14.23	56.52	104	261	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 157 5785MHz		11570	45.95	-28.05	74	51.48	38.68	11.83	56.04	-	-	P	H
		17355	54.42	-13.78	68.2	58.03	38.8	14.31	56.72	200	338	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	46.49	-27.51	74	52.02	38.68	11.83	56.04	-	-	P	V
		17355	57.29	-10.91	68.2	60.9	38.8	14.31	56.72	100	259	P	V
													V
													V
													V
													V
													V
													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		5646.6	60.66	-7.54	68.2	57.31	33.19	7.02	36.86	270	85	P	H
		5699	75.22	-29.24	104.46	71.55	33.49	7.05	36.87	270	85	P	H
		5718.8	89.56	-20.9	110.46	85.76	33.61	7.06	36.87	270	85	P	H
		5724	90.74	-29.18	119.92	86.91	33.64	7.06	36.87	270	85	P	H
	*	5755	112.57	-	-	108.55	33.82	7.08	36.88	270	85	P	H
	*	5755	106.11	-	-	102.09	33.82	7.08	36.88	270	85	A	H
		5852.4	73.45	-43.28	116.73	69.02	34.21	7.12	36.9	270	85	P	H
		5857.2	72.56	-37.62	110.18	68.11	34.24	7.12	36.91	270	85	P	H
		5881.8	69.94	-30.21	100.15	65.34	34.39	7.12	36.91	270	85	P	H
		5939.8	62.37	-5.83	68.2	57.66	34.5	7.14	36.93	270	85	P	H
													H
													H
		5649.8	66.9	-1.3	68.2	63.54	33.2	7.02	36.86	400	158	P	V
		5697.4	79.31	-23.97	103.28	75.65	33.48	7.05	36.87	400	158	P	V
		5718.2	91.43	-18.87	110.3	87.63	33.61	7.06	36.87	400	158	P	V
		5725	93.31	-28.89	122.2	89.47	33.65	7.06	36.87	400	158	P	V
	*	5755	114.92	-	-	110.9	33.82	7.08	36.88	400	158	P	V
	*	5755	107.92	-	-	103.9	33.82	7.08	36.88	400	158	A	V
		5850.8	70.29	-50.09	120.38	65.87	34.2	7.12	36.9	400	158	P	V
		5865.4	70.5	-37.39	107.89	66	34.29	7.12	36.91	400	158	P	V
		5876	68.56	-35.9	104.46	63.99	34.36	7.12	36.91	400	158	P	V
		5936	59.92	-8.28	68.2	55.2	34.5	7.14	36.92	400	158	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 159 5795MHz		5643.6	54.63	-13.57	68.2	51.27	33.19	7.02	36.85	298	85	P	H
		5689.2	62.91	-34.33	97.24	59.3	33.44	7.04	36.87	298	85	P	H
		5718.8	68.97	-41.49	110.46	65.17	33.61	7.06	36.87	298	85	P	H
		5724	71.81	-48.11	119.92	67.98	33.64	7.06	36.87	298	85	P	H
	*	5795	113.72	-	-	109.53	33.98	7.1	36.89	298	85	P	H
	*	5795	107.49	-	-	103.3	33.98	7.1	36.89	298	85	A	H
		5854.8	77.32	-33.94	111.26	72.88	34.23	7.12	36.91	298	85	P	H
		5855	76.9	-33.9	110.8	72.46	34.23	7.12	36.91	298	85	P	H
		5880	71.7	-29.79	101.49	67.11	34.38	7.12	36.91	298	85	P	H
		5929.8	62.47	-5.73	68.2	57.75	34.5	7.14	36.92	298	85	P	H
													H
													H
		5642.2	56.75	-11.45	68.2	53.4	33.18	7.02	36.85	396	39	P	V
		5696.6	71.06	-31.63	102.69	67.4	33.48	7.05	36.87	396	39	P	V
		5716.4	71.62	-38.17	109.79	67.83	33.6	7.06	36.87	396	39	P	V
		5723.6	71.17	-47.84	119.01	67.34	33.64	7.06	36.87	396	39	P	V
	*	5795	115.74	-	-	111.55	33.98	7.1	36.89	396	39	P	V
	*	5795	110.56	-	-	106.37	33.98	7.1	36.89	396	39	A	V
		5851.8	81.41	-36.69	118.1	76.98	34.21	7.12	36.9	396	39	P	V
		5867	80.55	-26.89	107.44	76.04	34.3	7.12	36.91	396	39	P	V
		5877.6	77.53	-25.74	103.27	72.95	34.37	7.12	36.91	396	39	P	V
		5926.6	66.45	-1.75	68.2	61.73	34.5	7.14	36.92	396	39	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		11510	55.49	-18.51	74	60.82	38.88	11.82	56.03	217	57	P	H
		11510	45.44	-8.56	54	50.77	38.88	11.82	56.03	217	57	A	H
		17265	60.27	-7.93	68.2	64.02	38.57	14.25	56.57	265	316	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11510	53.17	-20.83	74	58.5	38.88	11.82	56.03	306	38	P	V
		11510	44.38	-9.62	54	49.71	38.88	11.82	56.03	306	38	A	V
		17265	60.96	-7.24	68.2	64.71	38.57	14.25	56.57	185	308	P	V
													V
													V
													V
													V
													V
													V

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Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5648.8	61.45	-6.75	68.2	58.09	33.2	7.02	36.86	300	88	P	H
		5699	76.61	-27.85	104.46	72.94	33.49	7.05	36.87	300	88	P	H
		5718.8	80.4	-30.06	110.46	76.6	33.61	7.06	36.87	300	88	P	H
		5724	82.58	-37.34	119.92	78.75	33.64	7.06	36.87	300	88	P	H
	*	5775	107.14	-	-	103.04	33.9	7.09	36.89	300	88	P	H
	*	5775	100.31	-	-	96.21	33.9	7.09	36.89	300	88	A	H
		5854.8	78.17	-33.09	111.26	73.73	34.23	7.12	36.91	300	88	P	H
		5856.8	76.16	-34.14	110.3	71.71	34.24	7.12	36.91	300	88	P	H
		5879	70.2	-32.03	102.23	65.62	34.37	7.12	36.91	300	88	P	H
		5926.8	63.67	-4.53	68.2	58.95	34.5	7.14	36.92	300	88	P	H
													H
													H
		5644.4	62.59	-5.61	68.2	59.23	33.19	7.02	36.85	394	43	P	V
		5698.8	77.46	-26.86	104.32	73.79	33.49	7.05	36.87	394	43	P	V
		5711.8	82.92	-25.59	108.51	79.16	33.57	7.06	36.87	394	43	P	V
		5723.8	82.75	-36.71	119.46	78.92	33.64	7.06	36.87	394	43	P	V
	*	5775	109.24	-	-	105.14	33.9	7.09	36.89	394	43	P	V
	*	5775	102.75	-	-	98.65	33.9	7.09	36.89	394	43	A	V
		5851.6	79.5	-39.05	118.55	75.07	34.21	7.12	36.9	394	43	P	V
		5864.2	78.26	-29.96	108.22	73.76	34.29	7.12	36.91	394	43	P	V
		5877.4	74.28	-29.14	103.42	69.71	34.36	7.12	36.91	394	43	P	V
		5926.8	67.34	-0.86	68.2	62.62	34.5	7.14	36.92	394	43	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	46.7	-27.3	74	52.11	38.8	11.82	56.03	-	-	P	H
		17325	46.19	-22.01	68.2	49.92	38.65	14.29	56.67	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
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													H
													H
													H
		11550	45.46	-28.54	74	50.87	38.8	11.82	56.03	-	-	P	V
		17325	46.61	-21.59	68.2	50.34	38.65	14.29	56.67	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		5645.8	58.25	-9.95	68.2	54.89	33.19	7.02	36.85	325	86	P	H
		5698	73.85	-29.88	103.73	70.18	33.49	7.05	36.87	325	86	P	H
		5718.4	89.53	-20.82	110.35	85.73	33.61	7.06	36.87	325	86	P	H
		5723.4	95.63	-22.92	118.55	91.8	33.64	7.06	36.87	325	86	P	H
	*	5745	114.81	-	-	110.85	33.77	7.07	36.88	325	86	P	H
	*	5745	108.19	-	-	104.23	33.77	7.07	36.88	325	86	A	H
													H
													H
		5643.2	63.75	-4.45	68.2	60.39	33.19	7.02	36.85	400	207	P	V
		5698	76.77	-26.96	103.73	73.1	33.49	7.05	36.87	400	207	P	V
		5718.8	95.06	-15.4	110.46	91.26	33.61	7.06	36.87	400	207	P	V
		5723.4	98.21	-20.34	118.55	94.38	33.64	7.06	36.87	400	207	P	V
	*	5745	116.83	-	-	112.87	33.77	7.07	36.88	400	207	P	V
	*	5745	109.6	-	-	105.64	33.77	7.07	36.88	400	207	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		5623.8	52.18	-16.02	68.2	48.87	33.15	7.01	36.85	304	83	P	H
		5699	62.48	-41.98	104.46	58.81	33.49	7.05	36.87	304	83	P	H
		5715.8	69.4	-40.23	109.63	65.62	33.59	7.06	36.87	304	83	P	H
		5720.8	67.84	-44.78	112.62	64.03	33.62	7.06	36.87	304	83	P	H
	*	5785	113.37	-	-	109.23	33.94	7.09	36.89	304	83	P	H
	*	5785	107.39	-	-	103.25	33.94	7.09	36.89	304	83	A	H
		5850.2	66.35	-55.39	121.74	61.93	34.2	7.12	36.9	304	83	P	H
		5857.2	66.27	-43.91	110.18	61.82	34.24	7.12	36.91	304	83	P	H
		5881.8	63.14	-37.01	100.15	58.54	34.39	7.12	36.91	304	83	P	H
		5944	53.6	-14.6	68.2	48.89	34.5	7.14	36.93	304	83	P	H
													H
													H
		5625.2	52.38	-15.82	68.2	49.07	33.15	7.01	36.85	400	327	P	V
		5699.4	63.2	-41.56	104.76	59.52	33.5	7.05	36.87	400	327	P	V
		5719.6	68.43	-42.26	110.69	64.62	33.62	7.06	36.87	400	327	P	V
		5724	69.37	-50.55	119.92	65.54	33.64	7.06	36.87	400	327	P	V
	*	5785	115.92	-	-	111.78	33.94	7.09	36.89	400	327	P	V
	*	5785	109	-	-	104.86	33.94	7.09	36.89	400	327	A	V
		5854.6	72.6	-39.11	111.71	68.16	34.23	7.12	36.91	400	327	P	V
		5857.4	72.98	-37.15	110.13	68.53	34.24	7.12	36.91	400	327	P	V
		5875.8	69.14	-35.47	104.61	64.58	34.35	7.12	36.91	400	327	P	V
		5930	63.02	-5.18	68.2	58.3	34.5	7.14	36.92	400	327	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 165 5825MHz	*	5825	113.95	-	-	109.64	34.1	7.11	36.9	299	84	P	H
	*	5825	106.61	-	-	102.3	34.1	7.11	36.9	299	84	A	H
		5851.6	87.07	-31.48	118.55	82.64	34.21	7.12	36.9	299	84	P	H
		5856	83.75	-26.77	110.52	79.3	34.24	7.12	36.91	299	84	P	H
		5877	70.61	-33.1	103.71	66.04	34.36	7.12	36.91	299	84	P	H
		5932.2	58	-10.2	68.2	53.28	34.5	7.14	36.92	299	84	P	H
													H
													H
	*	5825	116.39	-	-	112.08	34.1	7.11	36.9	400	313	P	V
	*	5825	109.06	-	-	104.75	34.1	7.11	36.9	400	313	A	V
		5851.6	93.07	-25.48	118.55	88.64	34.21	7.12	36.9	400	313	P	V
		5856.6	89.84	-20.51	110.35	85.39	34.24	7.12	36.91	400	313	P	V
		5875	77.51	-27.69	105.2	72.95	34.35	7.12	36.91	400	313	P	V
		5930	65.53	-2.67	68.2	60.81	34.5	7.14	36.92	400	313	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

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[illegible]

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		5643.2	62.69	-5.51	68.2	59.33	33.19	7.02	36.85	283	87	P	H
		5698.6	78.65	-25.52	104.17	74.98	33.49	7.05	36.87	283	87	P	H
		5719.2	89.97	-20.61	110.58	86.16	33.62	7.06	36.87	283	87	P	H
		5721	91.49	-21.59	113.08	87.67	33.63	7.06	36.87	283	87	P	H
	*	5755	112.84	-	-	108.82	33.82	7.08	36.88	283	87	P	H
	*	5755	105.93	-	-	101.91	33.82	7.08	36.88	283	87	A	H
		5854.4	71.66	-40.51	112.17	67.22	34.23	7.12	36.91	283	87	P	H
		5867.2	70.64	-36.74	107.38	66.13	34.3	7.12	36.91	283	87	P	H
		5878.8	67.39	-34.99	102.38	62.81	34.37	7.12	36.91	283	87	P	H
		5926.8	63.87	-4.33	68.2	59.15	34.5	7.14	36.92	283	87	P	H
													H
													H
		5649	66.14	-2.06	68.2	62.78	33.2	7.02	36.86	395	42	P	V
		5699	81.07	-23.39	104.46	77.4	33.49	7.05	36.87	395	42	P	V
		5717.6	89.86	-20.27	110.13	86.06	33.61	7.06	36.87	395	42	P	V
		5724.4	92.86	-27.97	120.83	89.02	33.65	7.06	36.87	395	42	P	V
	*	5755	115.26	-	-	111.24	33.82	7.08	36.88	395	42	P	V
	*	5755	108.07	-	-	104.05	33.82	7.08	36.88	395	42	A	V
		5854.4	73.04	-39.13	112.17	68.6	34.23	7.12	36.91	395	42	P	V
		5861.8	72.94	-35.95	108.89	68.46	34.27	7.12	36.91	395	42	P	V
		5885	71.83	-25.94	97.77	67.2	34.41	7.13	36.91	395	42	P	V
		5939.2	63.88	-4.32	68.2	59.17	34.5	7.14	36.93	395	42	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 159 5795MHz		5649	53.74	-14.46	68.2	50.38	33.2	7.02	36.86	301	88	P	H
		5691.4	64.51	-34.35	98.86	60.88	33.45	7.05	36.87	301	88	P	H
		5718.4	66.96	-43.39	110.35	63.16	33.61	7.06	36.87	301	88	P	H
		5723.8	71.19	-48.27	119.46	67.36	33.64	7.06	36.87	301	88	P	H
	*	5795	111.37	-	-	107.18	33.98	7.1	36.89	301	88	P	H
	*	5795	104.4	-	-	100.21	33.98	7.1	36.89	301	88	A	H
		5852.8	74.11	-41.71	115.82	69.67	34.22	7.12	36.9	301	88	P	H
		5863.4	74.35	-34.1	108.45	69.86	34.28	7.12	36.91	301	88	P	H
		5883.6	70.85	-27.96	98.81	66.23	34.4	7.13	36.91	301	88	P	H
		5939.6	60.5	-7.7	68.2	55.79	34.5	7.14	36.93	301	88	P	H
													H
													H
		5649.2	55.56	-12.64	68.2	52.2	33.2	7.02	36.86	393	47	P	V
		5696.8	63.96	-38.88	102.84	60.3	33.48	7.05	36.87	393	47	P	V
		5719.2	70.78	-39.8	110.58	66.97	33.62	7.06	36.87	393	47	P	V
		5723	71.85	-45.79	117.64	68.02	33.64	7.06	36.87	393	47	P	V
	*	5795	113.48	-	-	109.29	33.98	7.1	36.89	393	47	P	V
	*	5795	106.95	-	-	102.76	33.98	7.1	36.89	393	47	A	V
		5850	78.74	-43.46	122.2	74.33	34.2	7.11	36.9	393	47	P	V
		5859.6	76.27	-33.24	109.51	71.8	34.26	7.12	36.91	393	47	P	V
		5880	72.48	-29.01	101.49	67.89	34.38	7.12	36.91	393	47	P	V
		5939.4	66.08	-2.12	68.2	61.37	34.5	7.14	36.93	393	47	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		11510	46.41	-27.59	74	51.74	38.88	11.82	56.03	-	-	P	H
		17265	47.9	-20.3	68.2	51.65	38.57	14.25	56.57	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11510	45.8	-28.2	74	51.13	38.88	11.82	56.03	-	-	P	V
		17265	48.97	-19.23	68.2	52.72	38.57	14.25	56.57	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		5646.2	60.83	-7.37	68.2	57.48	33.19	7.02	36.86	300	83	P	H
		5691.8	76.26	-22.89	99.15	72.63	33.45	7.05	36.87	300	83	P	H
		5716	80.46	-29.22	109.68	76.67	33.6	7.06	36.87	300	83	P	H
		5722.6	83.96	-32.77	116.73	80.13	33.64	7.06	36.87	300	83	P	H
	*	5775	108.14	-	-	104.04	33.9	7.09	36.89	300	83	P	H
	*	5775	99.72	-	-	95.62	33.9	7.09	36.89	300	83	A	H
		5851.6	75.92	-42.63	118.55	71.49	34.21	7.12	36.9	300	83	P	H
		5857	76.48	-33.76	110.24	72.03	34.24	7.12	36.91	300	83	P	H
		5876.2	71.63	-32.68	104.31	67.06	34.36	7.12	36.91	300	83	P	H
		5927.6	64.47	-3.73	68.2	59.75	34.5	7.14	36.92	300	83	P	H
													H
													H
		5649.4	66.26	-1.94	68.2	62.9	33.2	7.02	36.86	395	44	P	V
		5682.6	78.11	-14.25	92.36	74.53	33.4	7.04	36.86	395	44	P	V
		5714	81.57	-27.55	109.12	77.8	33.58	7.06	36.87	395	44	P	V
		5722.4	84.81	-31.46	116.27	80.99	33.63	7.06	36.87	395	44	P	V
	*	5775	110.95	-	-	106.85	33.9	7.09	36.89	395	44	P	V
	*	5775	103.17	-	-	99.07	33.9	7.09	36.89	395	44	A	V
		5854.6	77.76	-33.95	111.71	73.32	34.23	7.12	36.91	395	44	P	V
		5872	78.57	-27.47	106.04	74.03	34.33	7.12	36.91	395	44	P	V
		5882.4	75.13	-24.57	99.7	70.53	34.39	7.12	36.91	395	44	P	V
		5927.4	66.73	-1.47	68.2	62.01	34.5	7.14	36.92	395	44	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

[illegible]

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 SHF		25768	38.79	-29.41	68.2	62.43	39	-2.44	60.2	-	-	P	H
		34050	46.32	-21.88	68.2	65.15	43.3	-1.26	60.87	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
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													H
		20856	36.93	-37.07	74	64.66	38.16	-3.37	62.52	-	-	P	V
		38642	42.87	-31.13	74	62.69	44.15	-0.47	63.5	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

[illegible]



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5850	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 157		5850	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
5785MHz													

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5850MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 5850MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

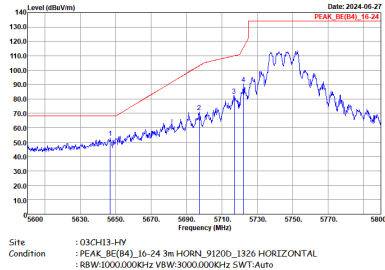
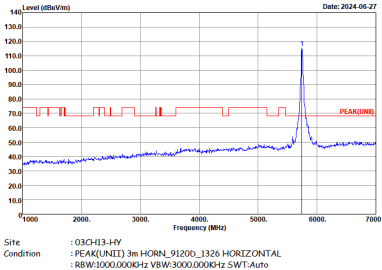
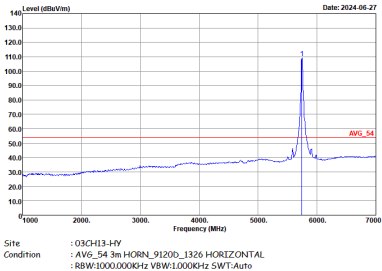


Appendix D. Radiated Spurious Emission Plots

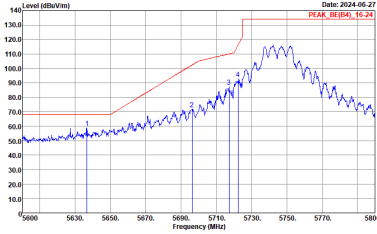
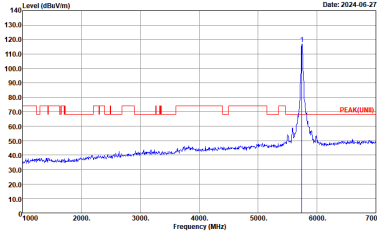
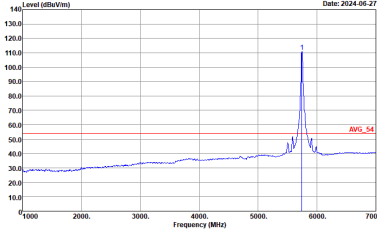
Test Engineer :	Rain Lee, Jacky Hong, and Mancy Chou	Temperature :	20~26°C
		Relative Humidity :	40~65%

Band 4 - 5725~5850MHz

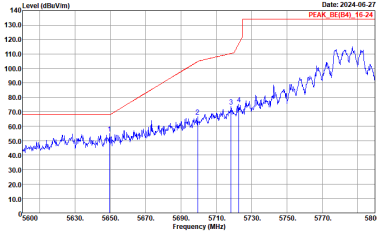
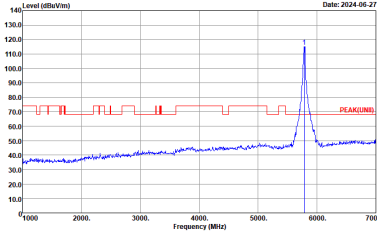
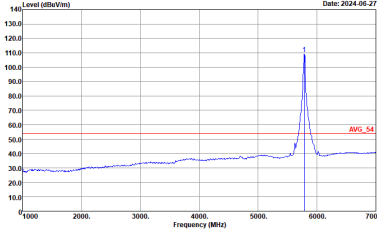
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		
Avg	Left blank	

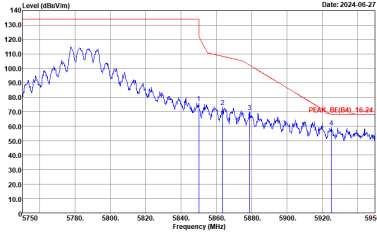


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

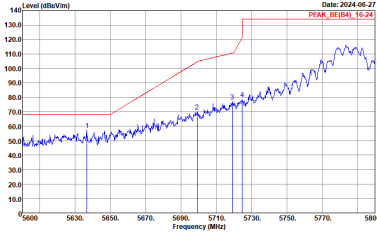
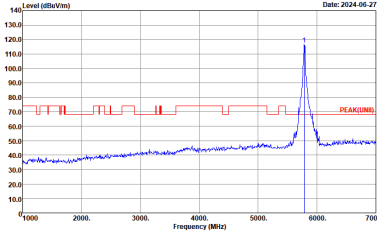
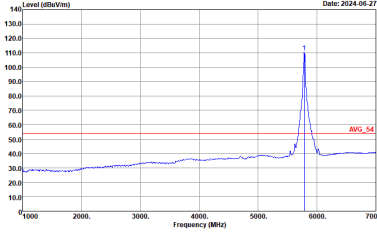


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

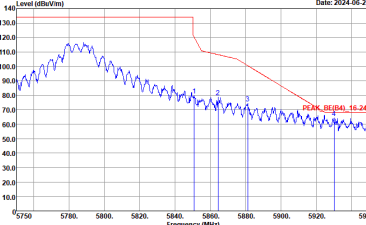


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

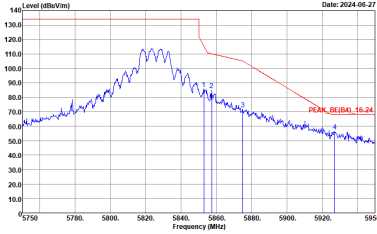
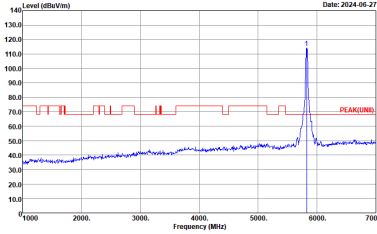
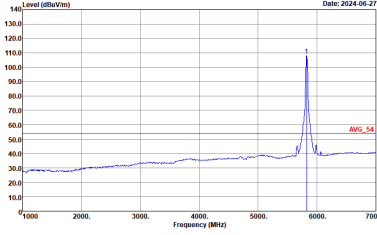


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

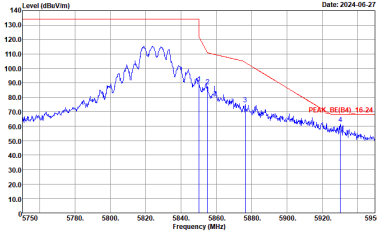
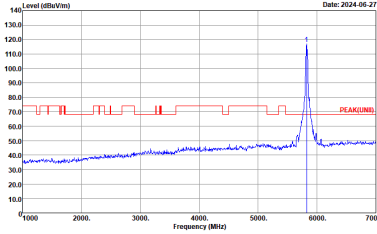
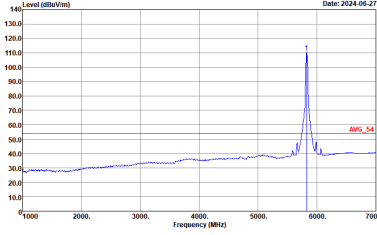


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

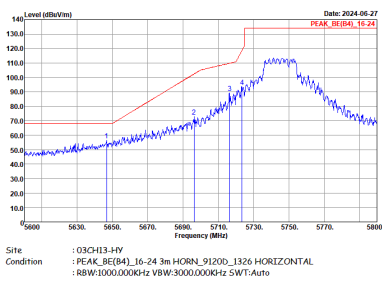
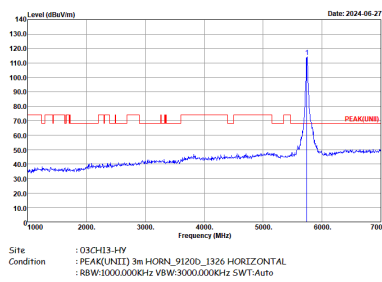
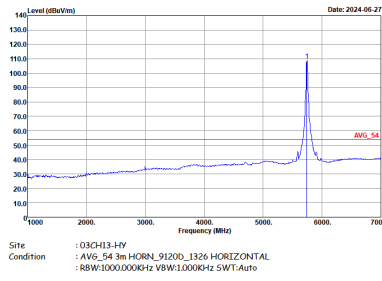


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAKUNIT 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

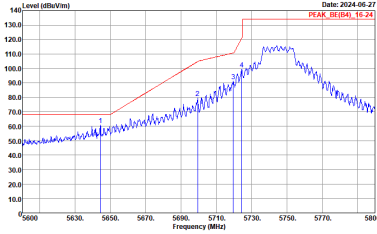
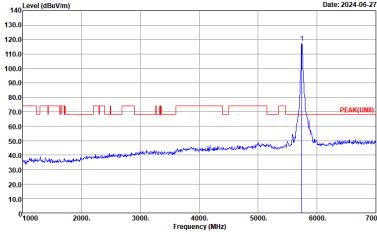
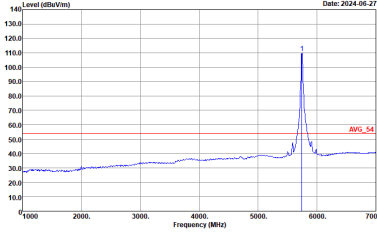


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

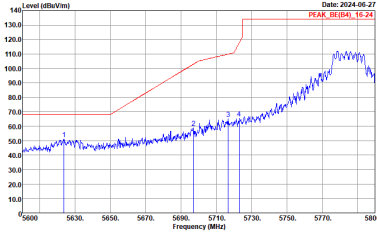
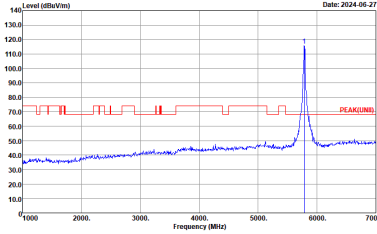
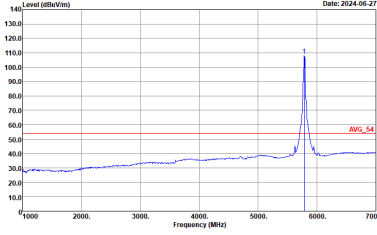
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		
Avg	Left blank	

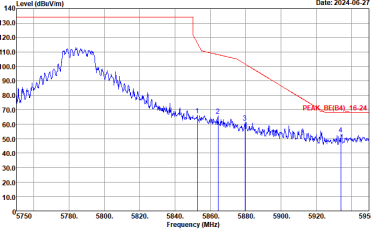


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

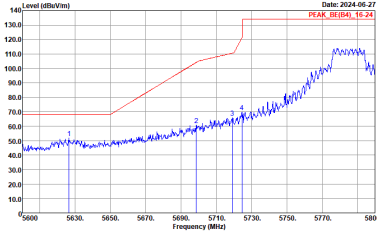
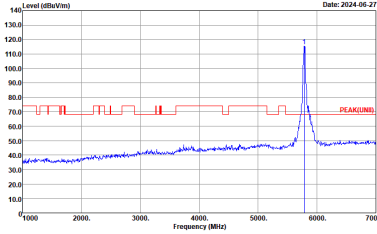
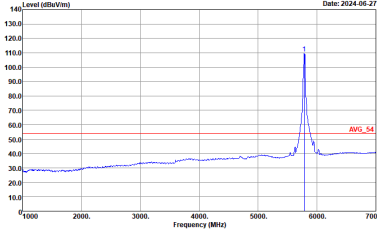


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85[84]_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK[UNIT] 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

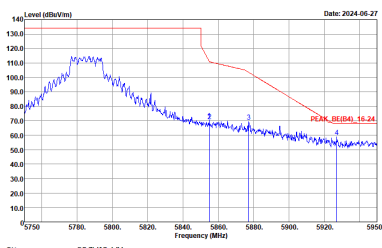


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

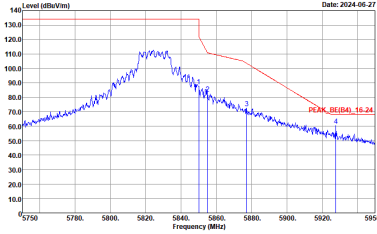
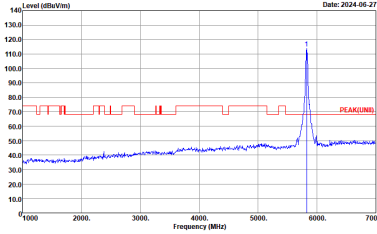
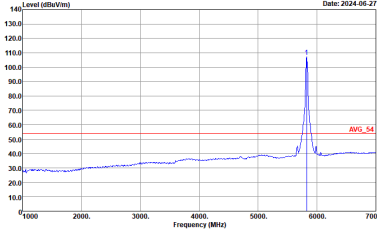


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

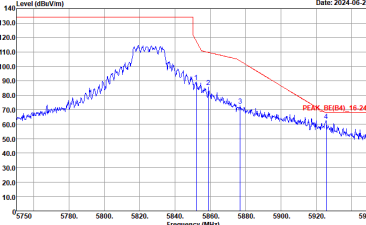
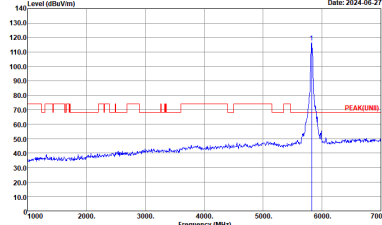
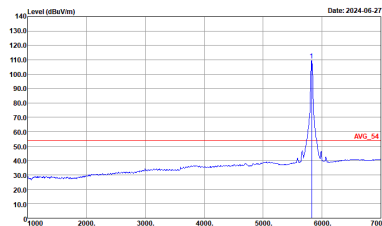


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_8E(B4)_16-24 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



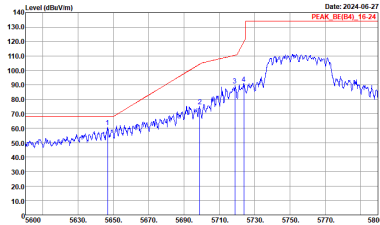
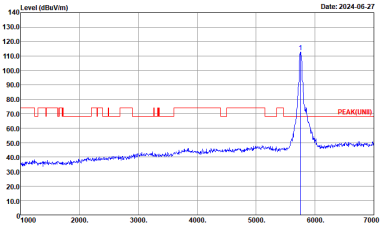
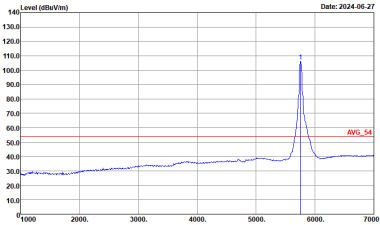
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



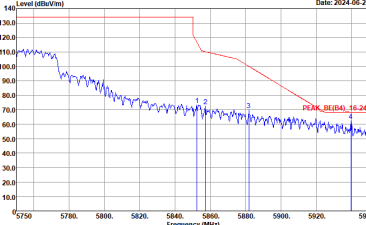
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



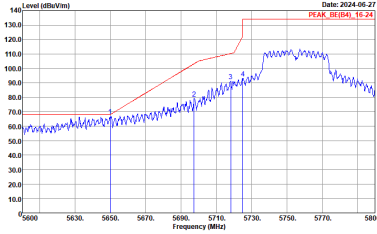
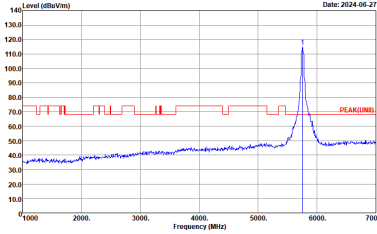
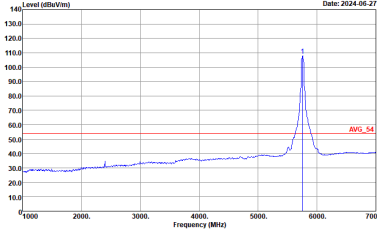
Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

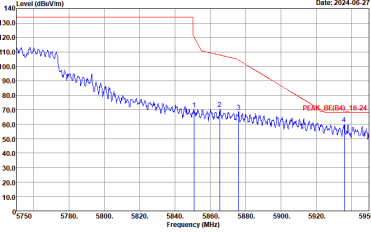


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

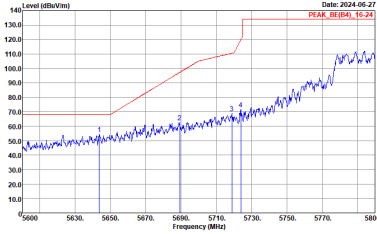
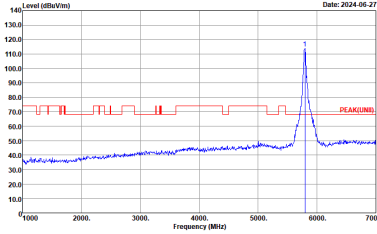
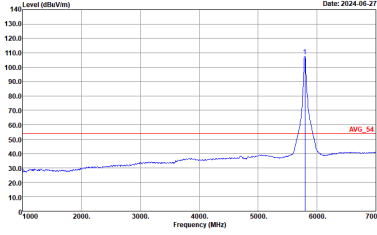


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

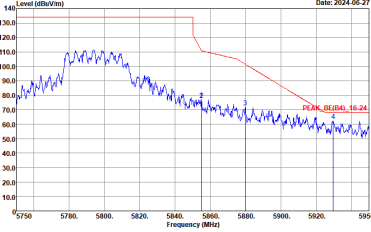


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_8E(B4)_16-24 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

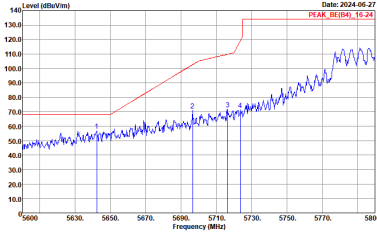
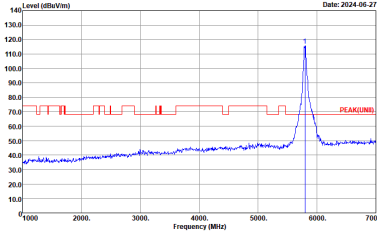
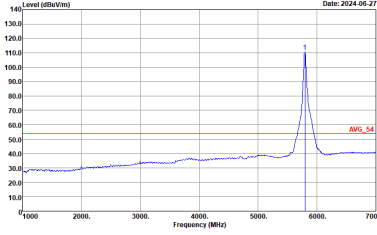


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

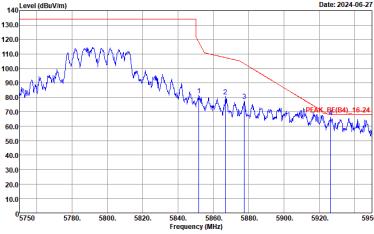


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



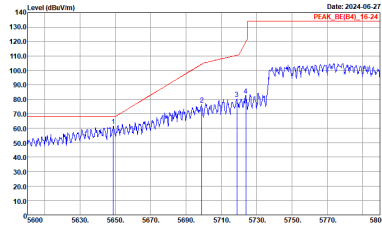
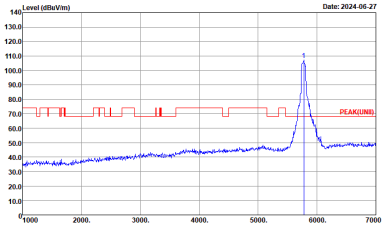
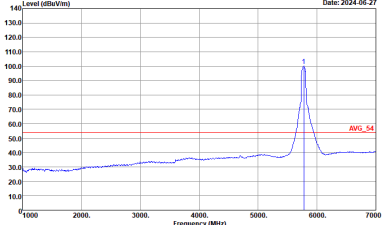
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_F4 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



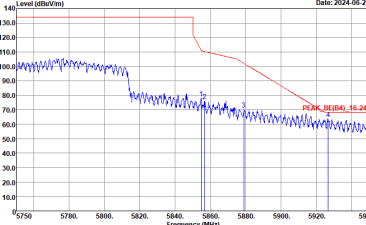
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



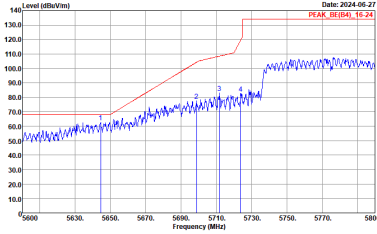
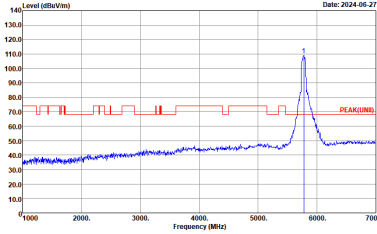
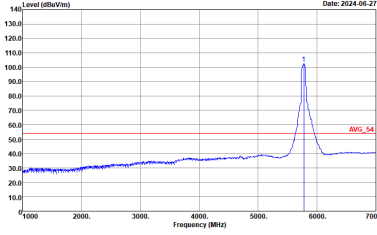
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

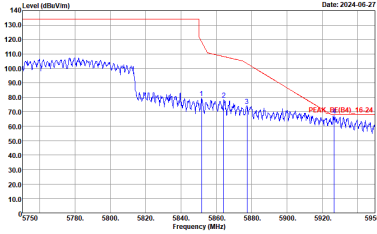


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_85(16)_24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



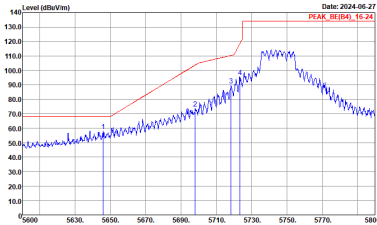
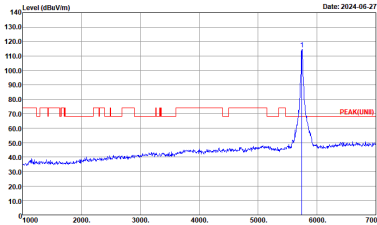
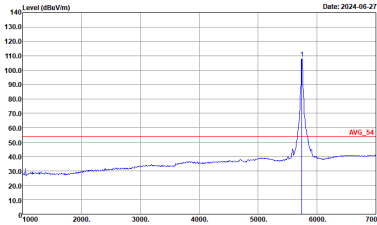
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



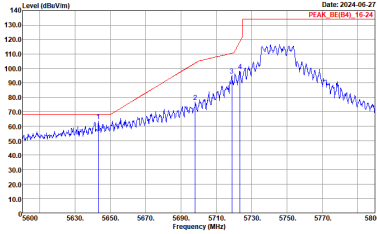
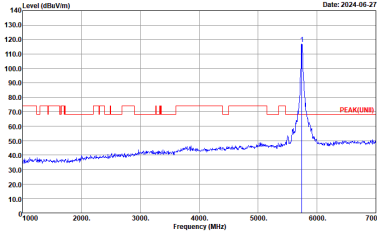
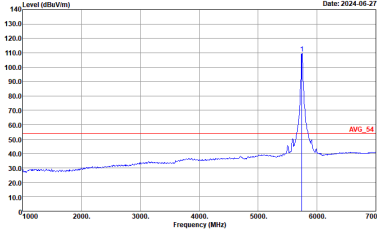
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_85(B4)_16-24 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



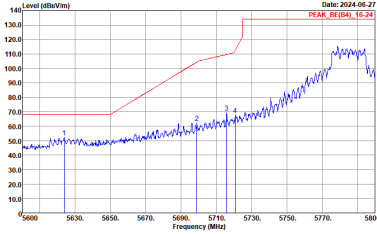
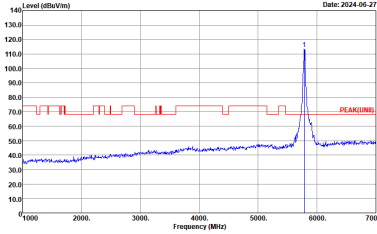
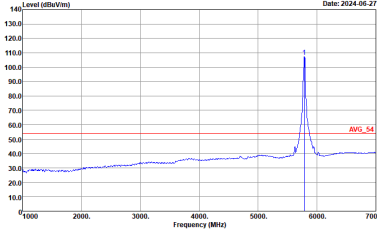
Band 4 - 5725~5850MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

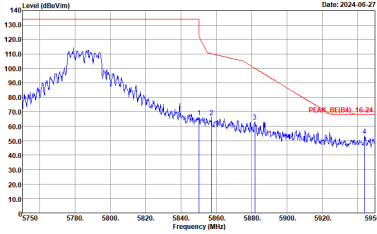


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

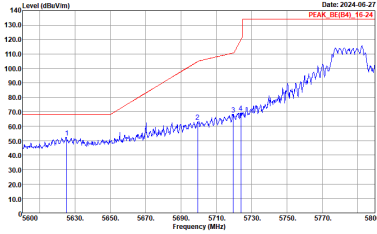
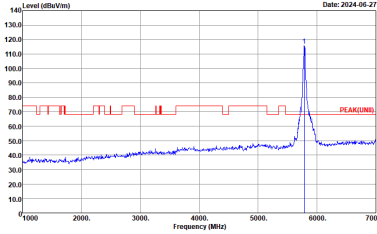
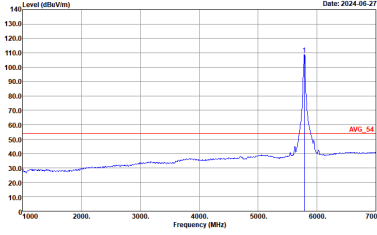


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_F4 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

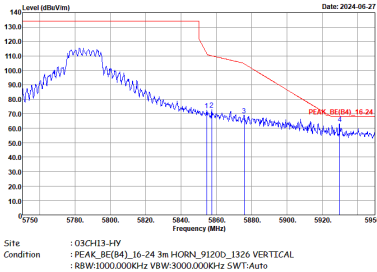


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_8E(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

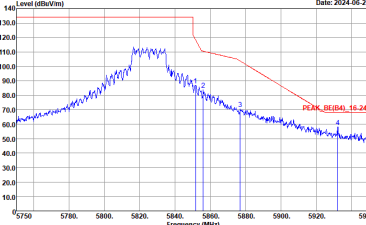
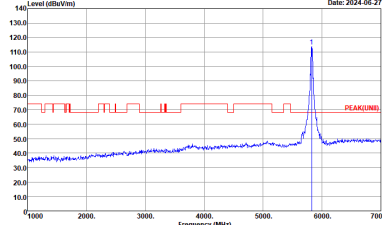
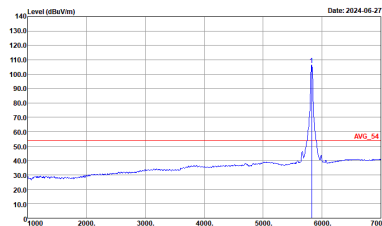


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

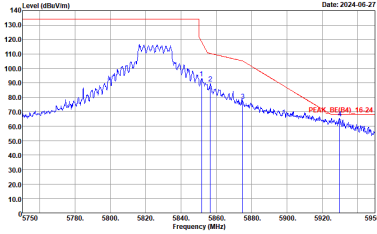
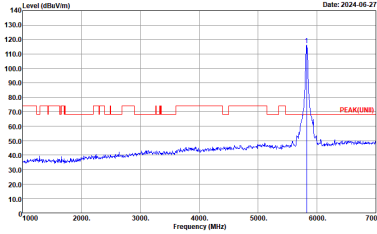
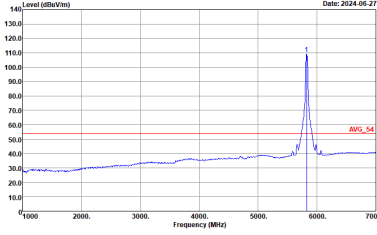


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		Left blank



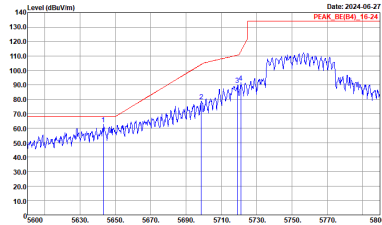
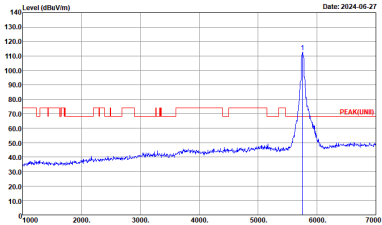
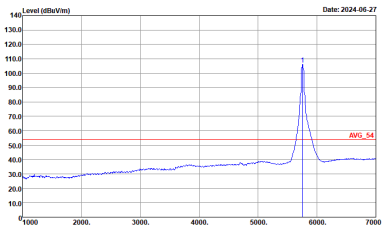
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_8E(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



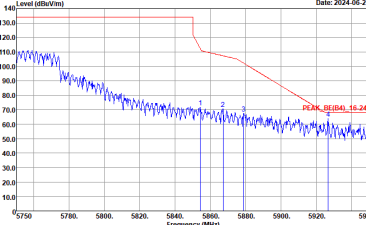
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:10000kHz SWT:Auto



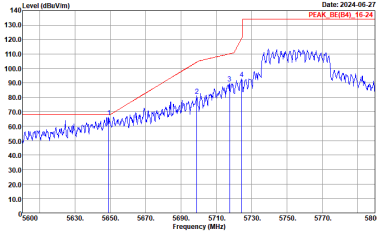
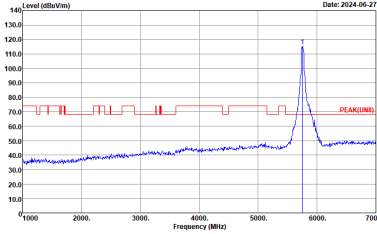
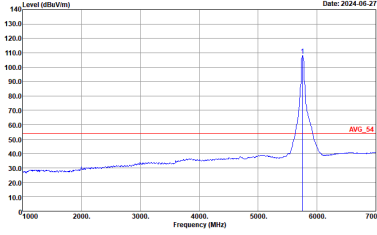
Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

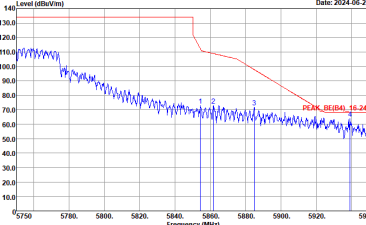


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

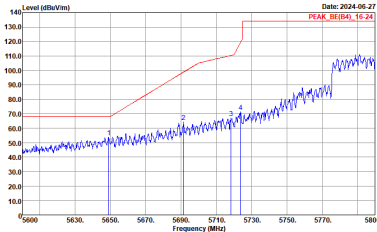
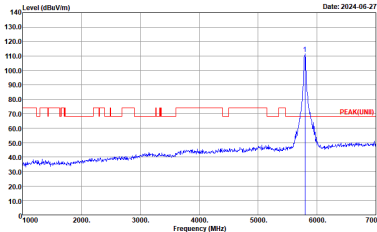
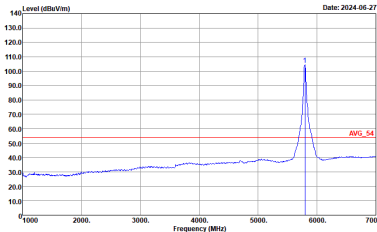


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

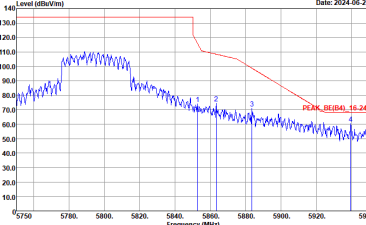


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

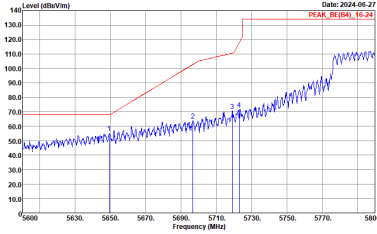
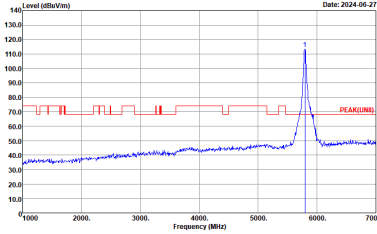
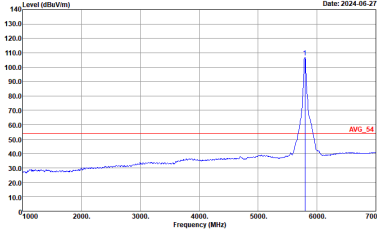


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_8E(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

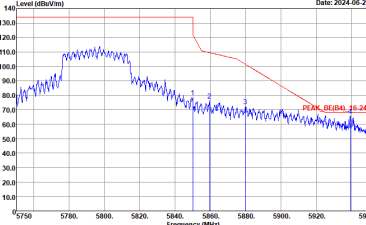


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_8E(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



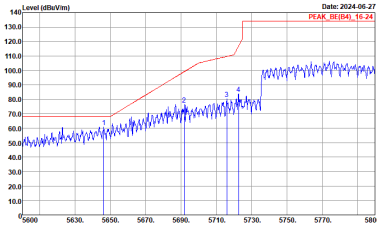
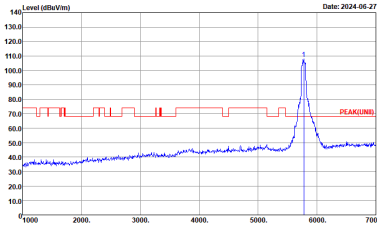
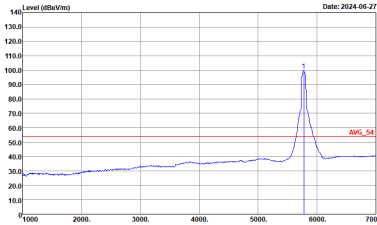
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



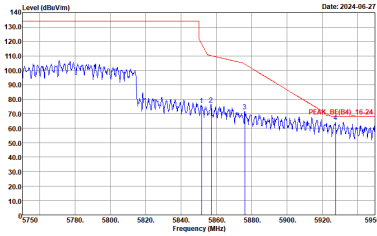
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_8E(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



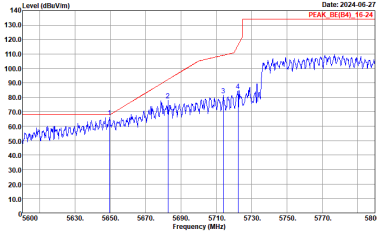
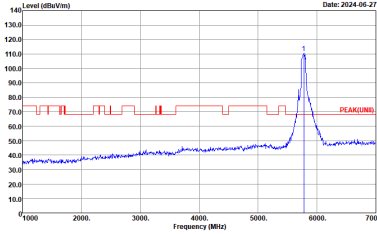
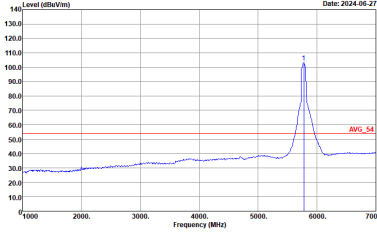
Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

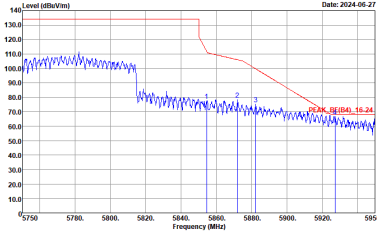


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_85(B4)_16-24 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



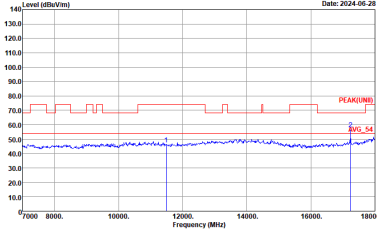
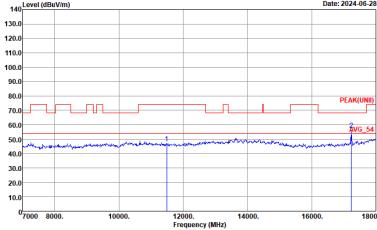
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



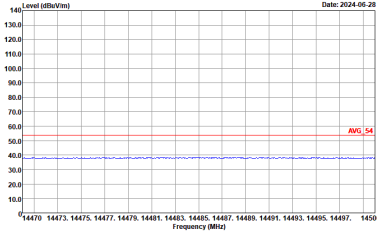
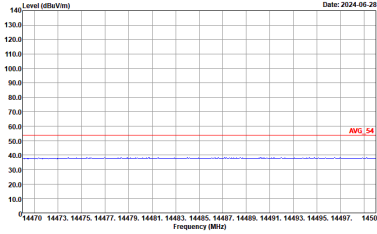
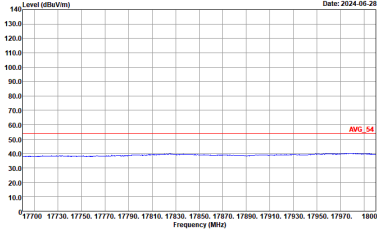
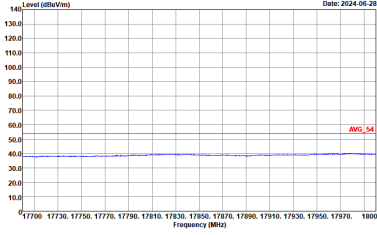
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-19Y Condition : PEAK_8E(B4)_16-24 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



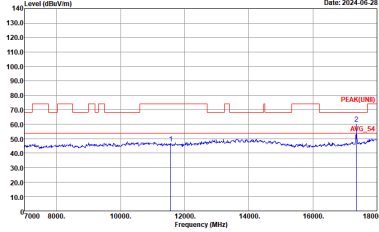
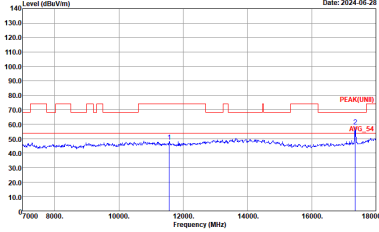
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNB) 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : PEAK(UNB) 3m HORN_91200_1326 VERTICAL :

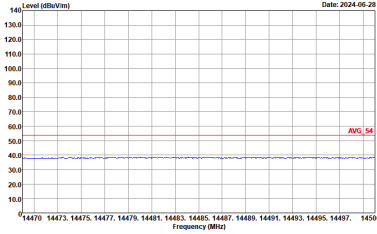
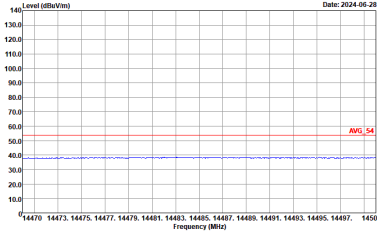
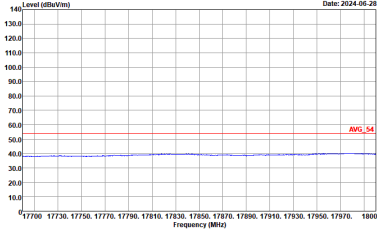
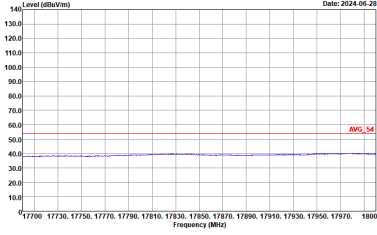


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .
	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .

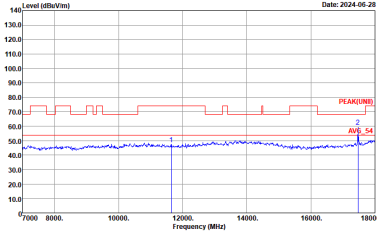
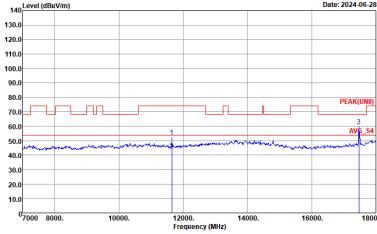


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH157-11Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH157-11Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 VERTICAL :

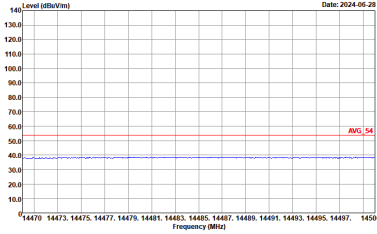
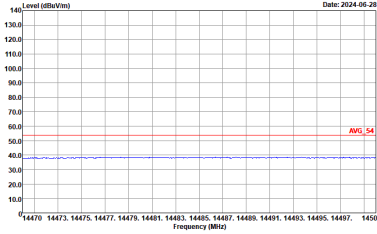
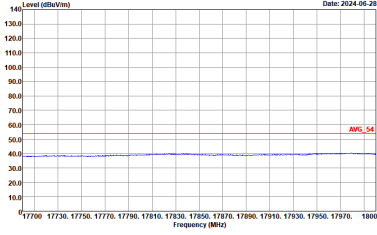
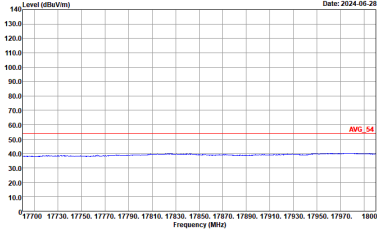


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .
	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .



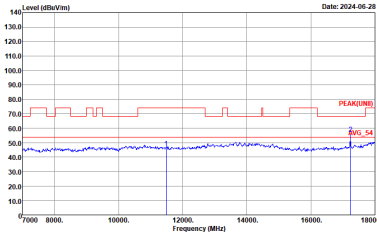
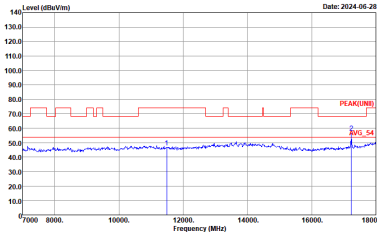
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 VERTICAL :



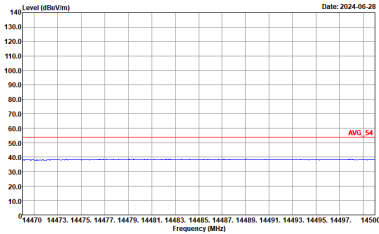
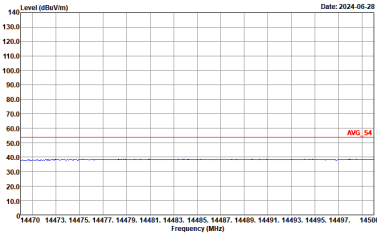
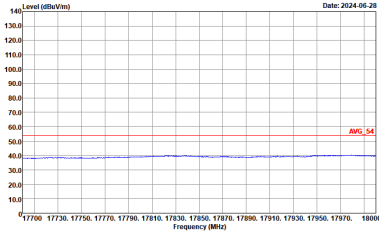
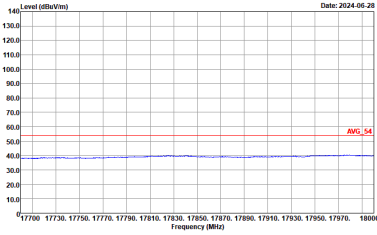
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .
	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .



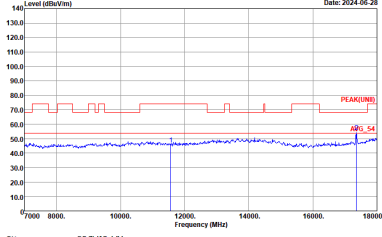
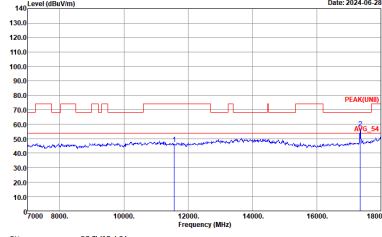
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UM) 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : PEAK(UM) 3m HORN_91200_1326 VERTICAL :

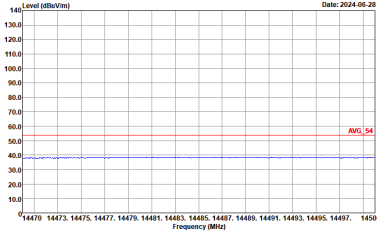
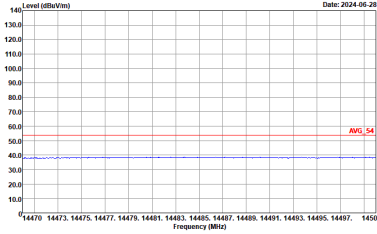
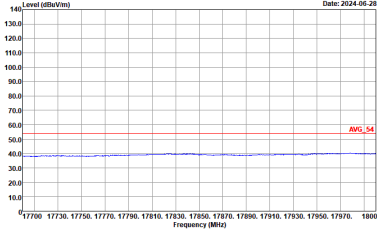
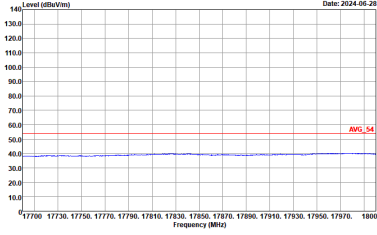


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .
17.7G ~18G Avg	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .

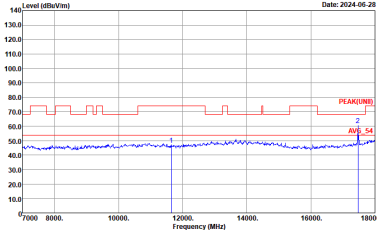
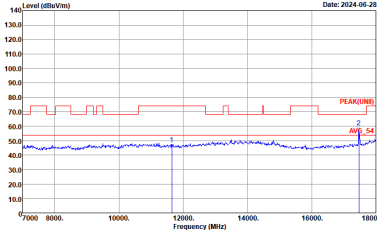


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 VERTICAL :

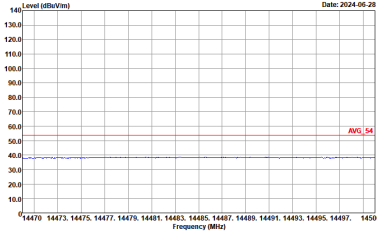
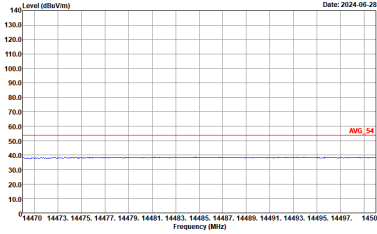
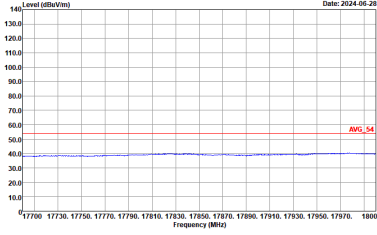
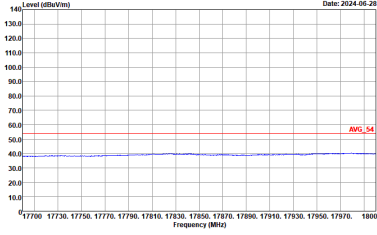


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .
	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .



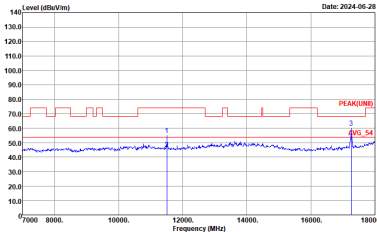
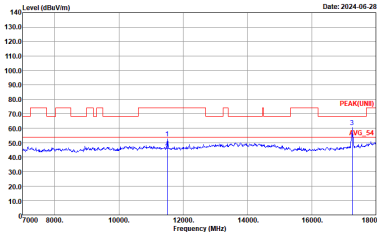
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .
	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .



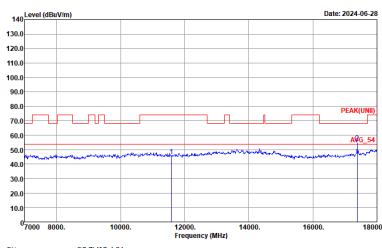
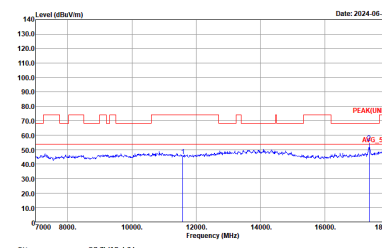
Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UM) 3m HORN_9120D_1326 HORIZONTAL : .	 Site : 03CH13-HY Condition : PEAK(UM) 3m HORN_9120D_1326 VERTICAL : .

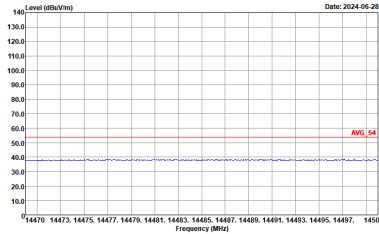
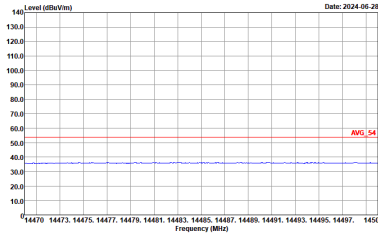
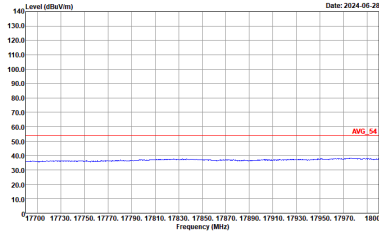
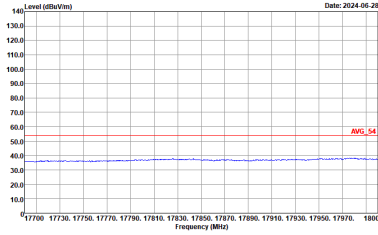


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.		



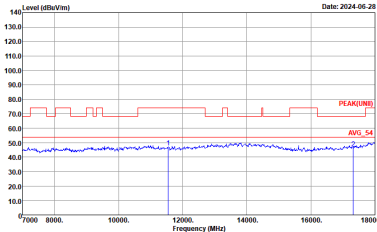
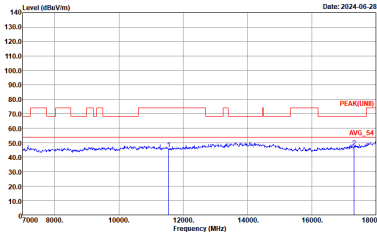
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .
17.7G ~18G Avg	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .



Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

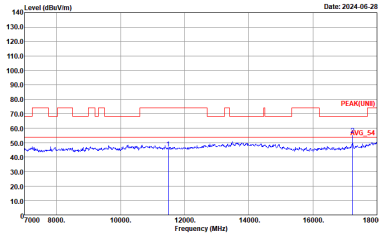
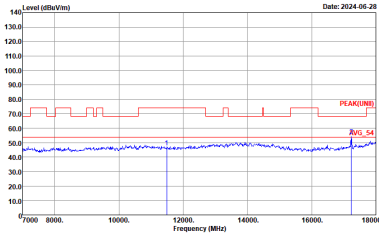
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : .	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL : .



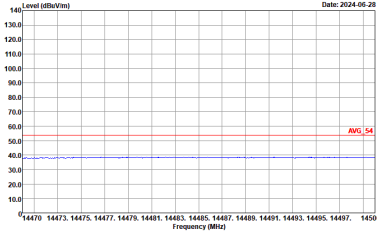
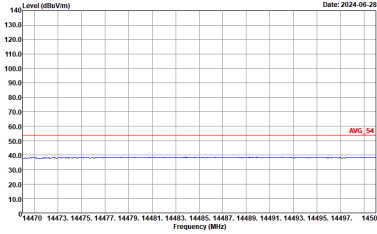
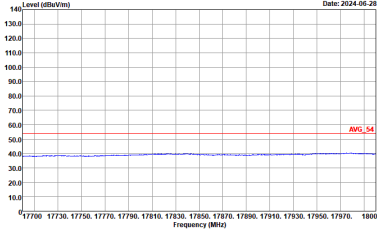
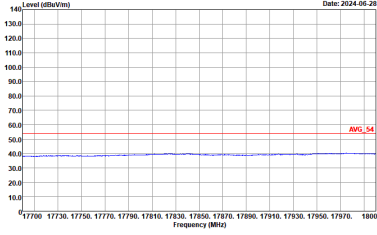
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL :	Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL :
	Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL :	Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL :



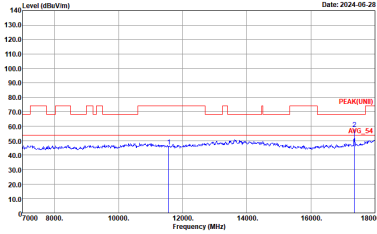
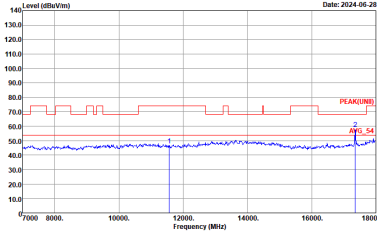
Band 4 - 5725~5850MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL :

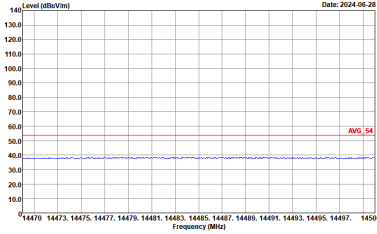
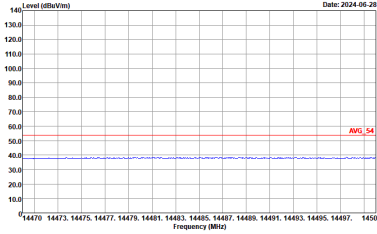
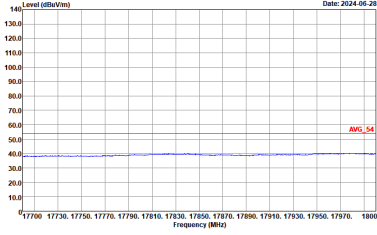
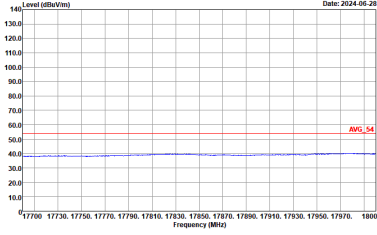


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .
	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL .	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL .

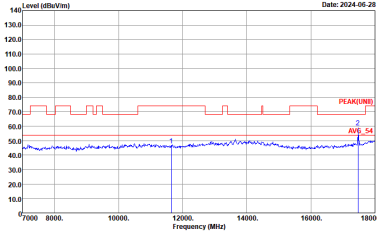
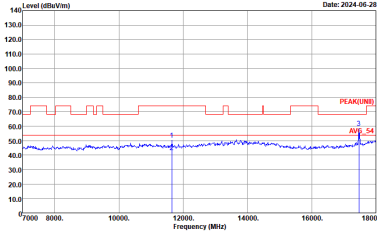


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 VERTICAL :

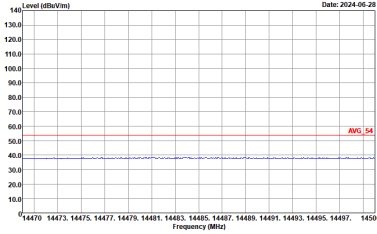
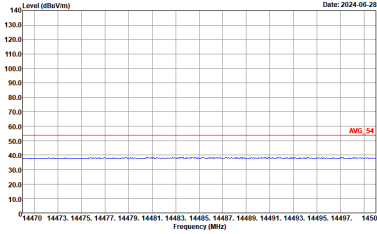
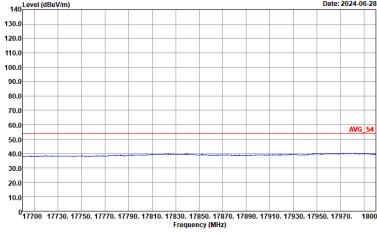
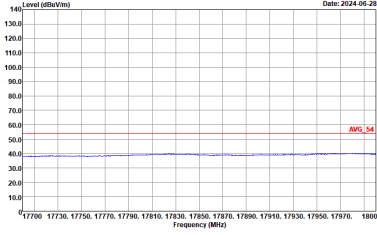


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL :
	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1326 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL :
	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL :



Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2024-06-27 Site : 03CH13-HY Condition : PEAK(UM) 3m HORN_91200_1326 HORIZONTAL :	Level (dBuV/m) Date: 2024-06-27 Site : 03CH13-HY Condition : PEAK(UM) 3m HORN_91200_1326 VERTICAL :

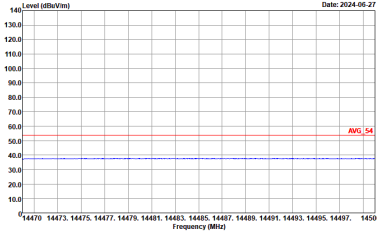
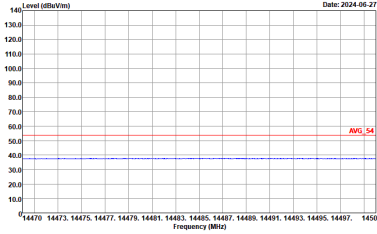
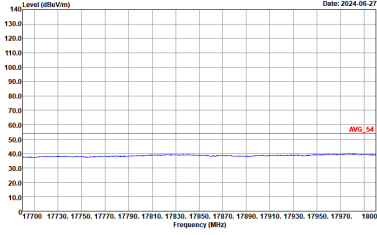
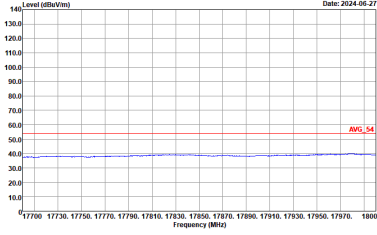


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Graph showing Level (dBm/Vm) vs Frequency (MHz) for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBm/Vm, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 50 dBm/Vm. A blue line is at approximately 40 dBm/Vm. The date is 2024-06-27. Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL	Graph showing Level (dBm/Vm) vs Frequency (MHz) for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBm/Vm, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 50 dBm/Vm. A blue line is at approximately 40 dBm/Vm. The date is 2024-06-27. Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL
	Graph showing Level (dBm/Vm) vs Frequency (MHz) for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBm/Vm, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 50 dBm/Vm. A blue line is at approximately 40 dBm/Vm. The date is 2024-06-27. Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL	Graph showing Level (dBm/Vm) vs Frequency (MHz) for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBm/Vm, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 50 dBm/Vm. A blue line is at approximately 40 dBm/Vm. The date is 2024-06-27. Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL



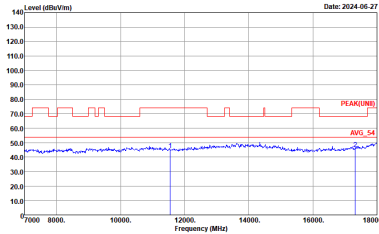
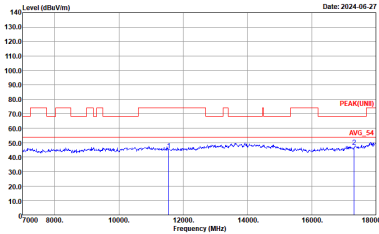
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2024-06-27 PEAK (dBuV/m) Avg. 54 Site : 03CH15-14Y Condition : PEAK (UNIT) 3m HORN_9120D_1326 HORIZONTAL	Level (dBuV/m) Date: 2024-06-27 PEAK (dBuV/m) Avg. 54 Site : 03CH15-14Y Condition : PEAK (UNIT) 3m HORN_9120D_1326 VERTICAL



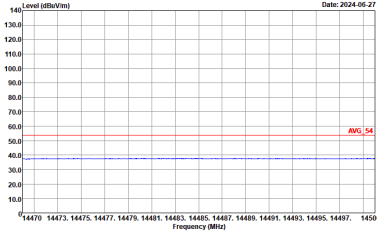
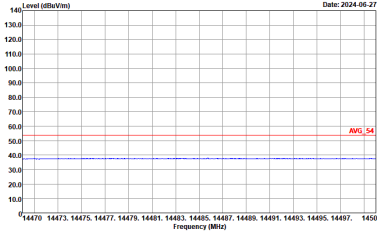
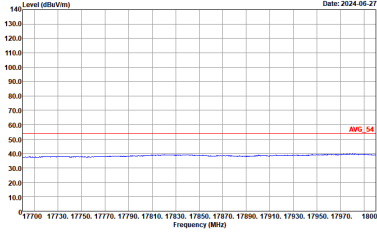
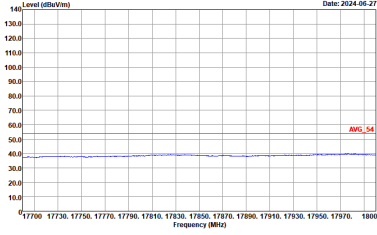
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL :
	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL :



Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

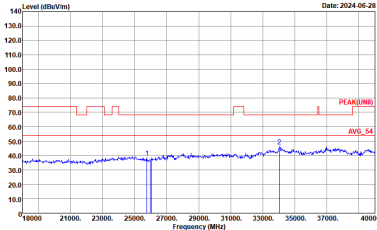
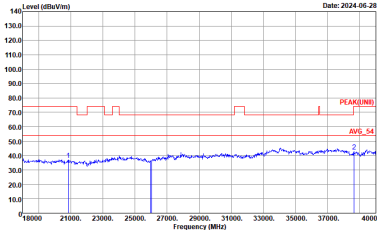
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL :
	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL :

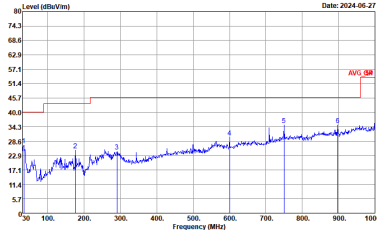
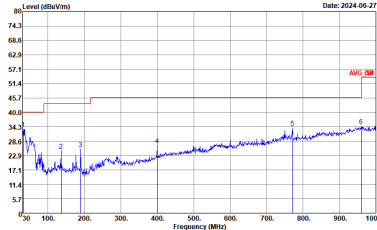


Emission above 18GHz
5GHz WIFI 802.11ac VHT80 (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 SHF	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UM) 1m SHF_1223 HORIZONTAL :	 Site : 03CH13-HY Condition : PEAK(UM) 1m SHF_1223 VERTICAL :



Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF @ 3m)

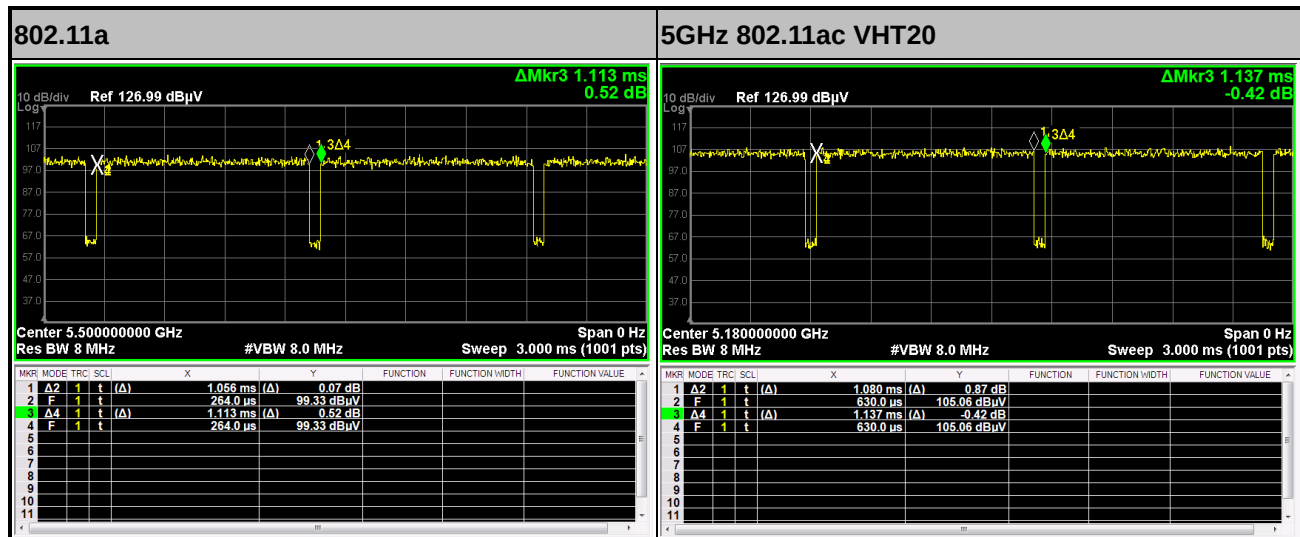
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HV Condition : QP-3m 81LOG_40103 HORIZONTAL :	 Site : 03CH13-HV Condition : QP-3m 81LOG_40103 VERTICAL :



Appendix E. Duty Cycle Plots

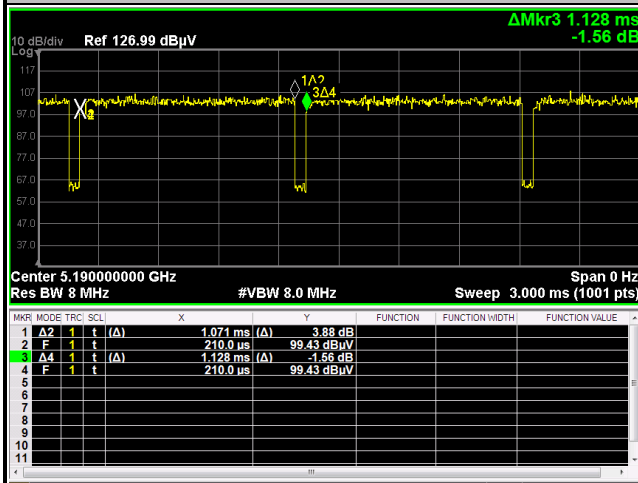
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11a	94.88	1056	0.95	1kHz
1+2	5GHz 802.11ac VHT20	94.99	1080	0.93	1kHz
1+2	5GHz 802.11ac VHT40	94.95	1071	0.93	1kHz
1+2	5GHz 802.11ac VHT80	94.95	1071	0.93	1kHz
1+2	5GHz 802.11ax HE20 Full RU	97.05	1810	0.55	1kHz
1+2	5GHz 802.11ax HE40 Full RU	94.26	936	1.07	3kHz
1+2	5GHz 802.11ax HE80 Full RU	93.98	936	1.07	3kHz

MIMO <Ant. 1+2>

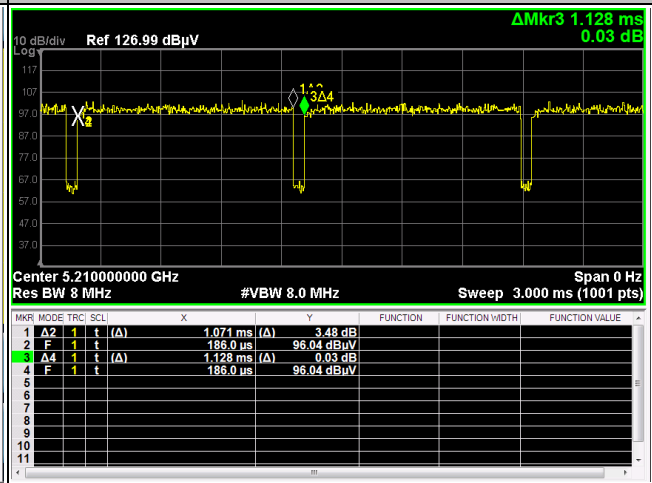




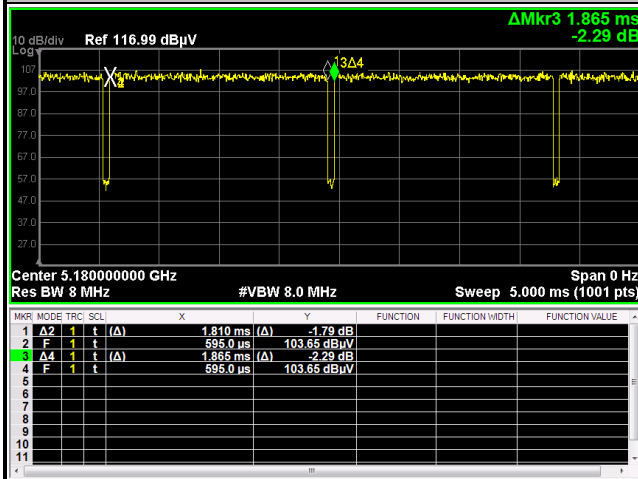
5GHz 802.11ac VHT40



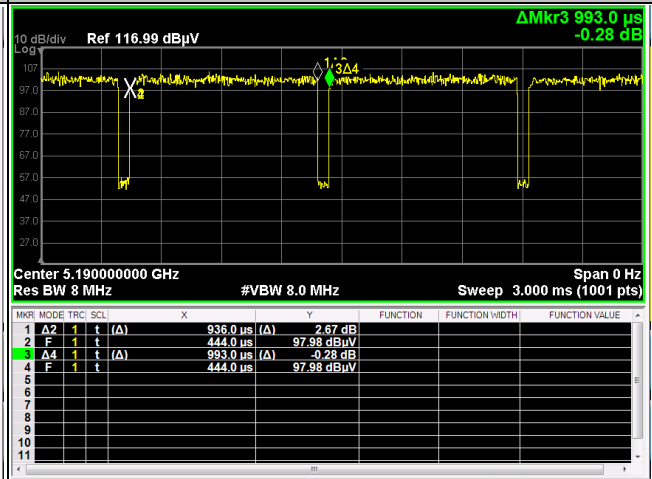
5GHz 802.11ac VHT80



5GHz 802.11ax HE20 Full RU



5GHz 802.11ax HE40 Full RU



5GHz 802.11ax HE80 Full RU

