



FCC RADIO TEST REPORT

FCC ID : U4G-SGVNRNA
Equipment : Mobile Computer/Barcode Reader
Brand Name : Datalogic
Model Name : SGVNRNA
Applicant : Datalogic S.r.l.
Via San Vitalino 13, 40012 Lippo di
Calderara di Reno (BO) – Italy
Manufacturer : Datalogic S.r.l.
Via San Vitalino 13, 40012 Lippo di
Calderara di Reno (BO) – Italy
Standard : FCC Part 15 Subpart E §15.407

The product was received on Apr. 24, 2024 and testing was performed from Apr. 25, 2024 to Jun. 07, 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.

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
FR440146G	01	Initial issue of report	Jul. 05, 2024
FR440146G	02	Revise Test Mode, Appendix C and Appendix E This report is an updated version, replacing the report issued on Jul. 05, 2024.	Jul. 15, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(e)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum E.I.R.P Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	6.55 dB under the limit at 5646.32 MHz
3.5	15.207	AC Conducted Emission	Pass	9.51 dB under the limit at 0.64 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/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".
Disclaimer:
1. 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.
2. The purpose of different equipment name is for marketing segmentation.

Reviewed by: Wei Chen
Report Producer: Clio Lo



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	GSM/WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/ax, NFC, WPC Rx, and GNSS.
Antenna Type	WWAN: <Ant. 0>: Loop Antenna <Ant. 1>: Loop Antenna <Ant. 2+3>: Coupling monopole Antenna <Ant. 4>: PIFA Antenna <Ant. 5>: PIFA Antenna <Ant. 6>: Loop Antenna <Ant. 7>: Monopole Antenna WLAN: <Ant. 8>: Coupling monopole Antenna <Ant. 9>: Loop Antenna Bluetooth: Coupling monopole Antenna GPS/Glonass/BDS/Galileo: Coupling monopole Antenna NFC: Loop Antenna WPC Rx: Single Coil Antenna
Sample 1	scan (Argon)
Sample 2	scan (Xenon)
HW Version	DVT2
SW Version	dl4490_gms-userdebug_1.04.001.20240520_a13_qfil_fastboot

Antenna information		
5850 MHz ~ 5895 MHz	Peak Gain (dBi)	Ant. 8: 2.0 Ant. 9: -0.2

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

EUT Information List		
S/N	P/N	Performed Test Item
919f8e49	944850003	RF Conducted Measurement
V24D00530	944850003	Radiated Spurious Emission
V24D00547	944850003	AC Conducted Emission

1.1.1 Antenna Directional Gain

<For CDD Mode>

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

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

For power measurements on IEEE 802.11 devices,

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

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

For PSD measurements, the directional gain calculation.

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

where

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

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

N_{ANT} = the total number of antennas

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

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

$$Directional\ gain = 10 \cdot \log \left[\left(10^{G_1 / 20} + 10^{G_2 / 20} + \dots + 10^{G_N / 20} \right)^2 / N_{ANT} \right] \text{ dBi}$$

Where G_1, G_2, \dots, G_N denote single antenna gain.

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

UNII-4			DG	DG
			for	for
	Ant 8	Ant 9	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
	2.00	-0.20	2.00	3.98

Calculation example:

If a device has two antenna, $G_{ANT1} = 2.0\text{dBi}$; $G_{ANT2} = -0.2\text{dBi}$

Directional gain of power measurement = $\max(2.0, -0.02) + 0 = 2.0 \text{ dBi}$

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[\left(10^{(2.00 \text{ dBi} / 20)} + 10^{(-0.20 \text{ dBi} / 20)} \right)^2 \right] / 2 \right\}$$

$$= 3.98 \text{ dBi}$$



1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY (TAF Code: 1190)
Remark	The Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, 03CH16-HY

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

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

According to the specifications of 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.
- ♦ FCC KDB 291074 D02 EMC Measurement v01
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
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 three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Bandwidth	Channel	Frequency (MHz)	Note
5850-5895 MHz (U-NII-4)	20 MHz	169	5845	Straddle
		173	5865	
		177	5885	
	40 MHz	167	5835	Straddle
		175	5875	
	80 MHz	171	5855	Straddle
160 MHz	163	5815	Straddle	

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



2.2 Test Mode

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

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

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

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

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

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

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

MIMO Antenna

Modulation	Data Rate
802.11a	6Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ac VHT160 (Covered by HE160)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

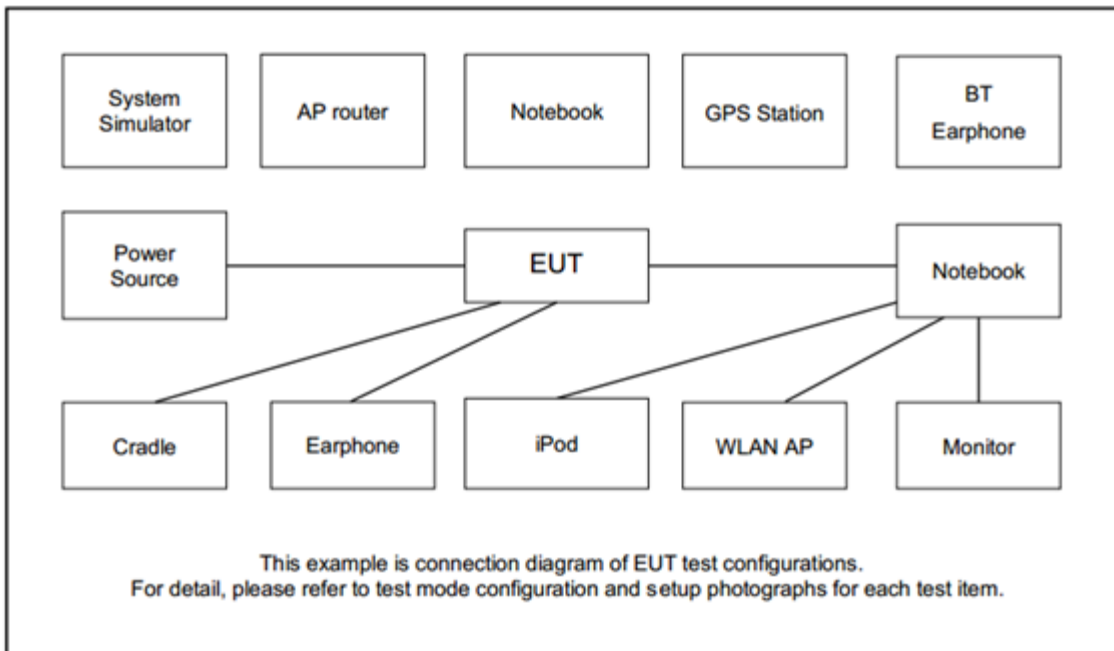
Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 : GSM1900 Link + WLAN (5GHz) Link + Bluetooth Link + NFC Link + Scan + Battery (low power) + USB Cable (Charging from AC Adapter) for Sample 1
Remark:	
<ol style="list-style-type: none"> For Radiated Test Cases, the tests were performed with Sample 1. During the preliminary test, both charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adaptor mode is the worst case for official test. 	

Ch. #	RF test channel of UNII-4 and UNII-3 &-4 span channels				
	802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
L Low	169	169	167	-	-
M Middle	173	173	-	171	163
H High	177	177	175	-	-

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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	GT-AXE11000	FCC DoC	N/A	Unshielded,1.8m
4.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	ADATA	MicroSD HC	FCC DoC	N/A	N/A
6.	NFC Card	Metro Taipei	Easy Card	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT 4.0.00206.0” 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

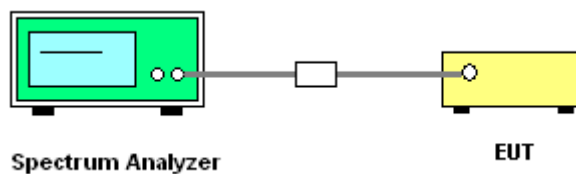
See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

1. Set RBW = 100 kHz.
2. Set the VBW $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
6. Measure and record the results in the test report.

3.1.4 Test Setup



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

Please refer to Appendix A.

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

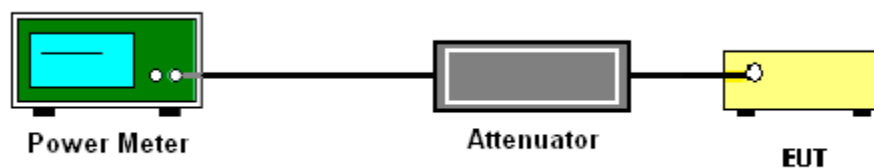
3.2.3 Test Procedures

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

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

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

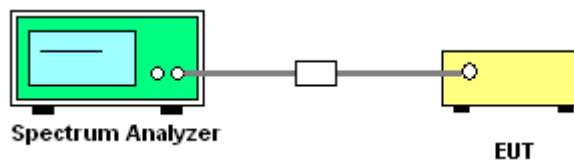
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-2

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

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
Method (a): Measure and sum the spectra across the outputs.
 4. The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as the following table:

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

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

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

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

15.407(b)(5)(i), all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

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

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

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

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



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

Note: Field strength at 3 m distance is converted to EIRP as the following equation:
 $EIRP[dBm] = E[dB\mu V/m] - 95.2$

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

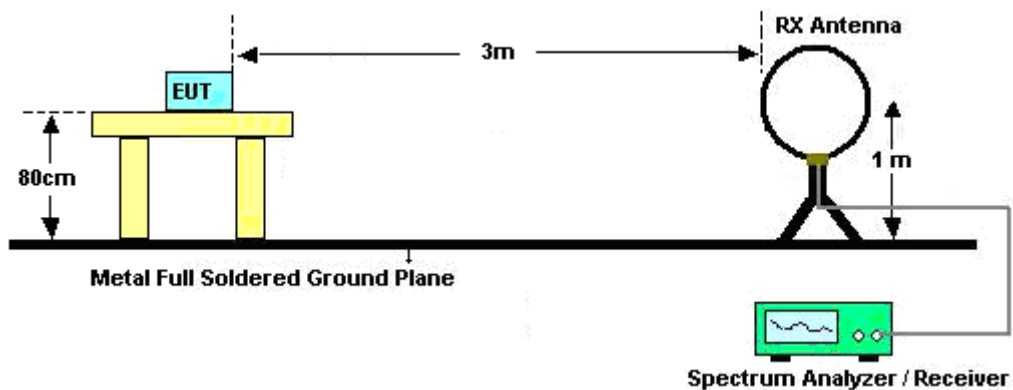
3.4.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - Procedure for Unwanted Emissions Measurements Below 1000 MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW ≥ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

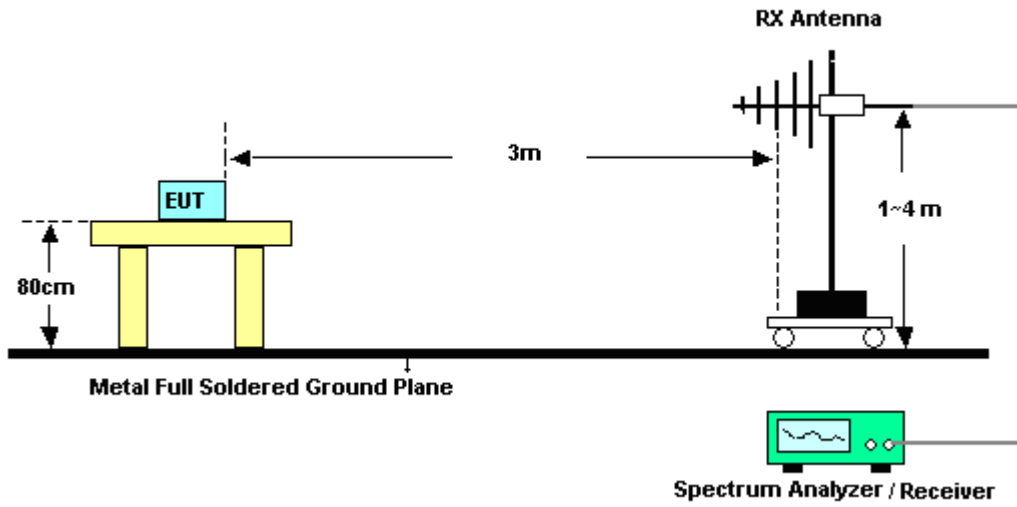
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was placed at distance 3 meter from measurement antenna which was mounted on the top of a variable height antenna tower.
4. The measurement antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0 degree to 360 degree to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0 degree to 360 degree to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6dB margin against average limit line, the position is marked as “-“.

3.4.4 Test Setup

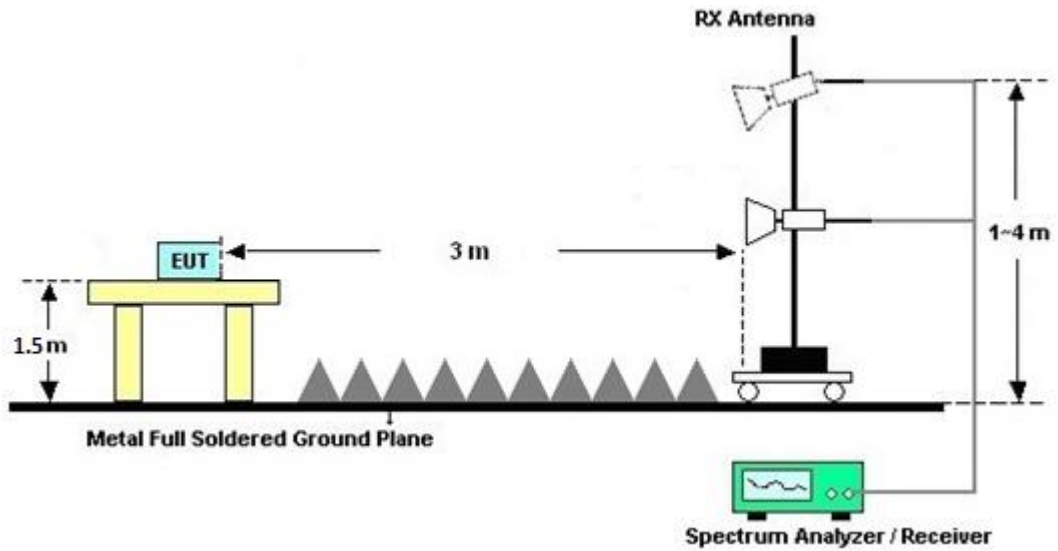
For radiated emissions below 30MHz



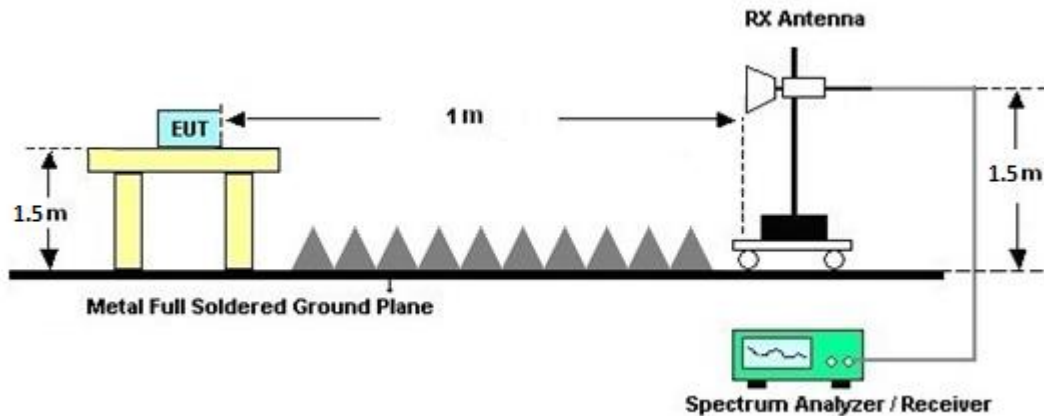
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

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

3.4.6 Test 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.

For terminal test result, the testing follows FCC KDB 174176.

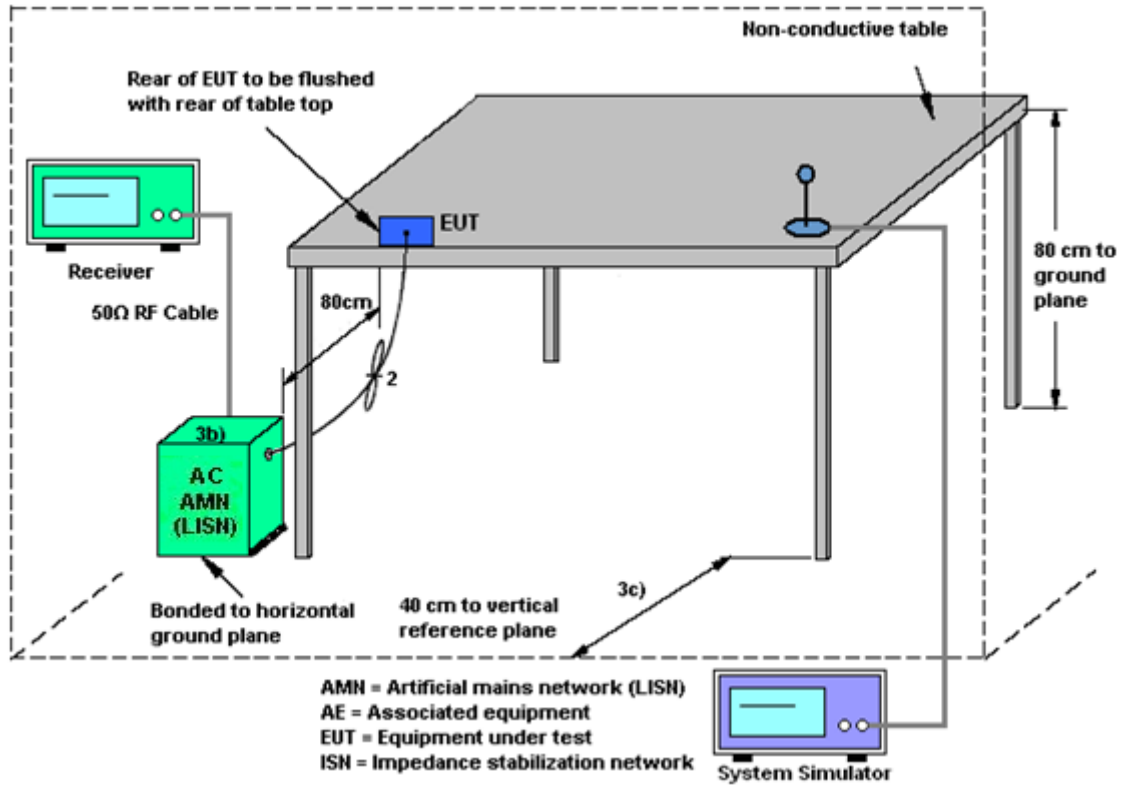
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

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 rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



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	Apr. 25, 2024~ May 29, 2024	Sep. 11, 2024	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1224	18GHz-40GHz	Jul. 10, 2023	Apr. 25, 2024~ May 29, 2024	Jul. 09, 2024	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 07, 2023	Apr. 25, 2024~ May 29, 2024	Oct. 06, 2024	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 28, 2024	Apr. 25, 2024~ May 29, 2024	Mar. 27, 2025	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 03, 2023	Apr. 25, 2024~ May 29, 2024	Jul. 02, 2024	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 07, 2023	Apr. 25, 2024~ May 29, 2024	Dec. 06, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 25, 2023	Apr. 25, 2024~ May 29, 2024	Dec. 24, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Apr. 25, 2024~ May 29, 2024	Jun. 26, 2024	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-1530- 8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 15, 2024	Apr. 25, 2024~ May 29, 2024	Jan. 14, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700-30 00-18000-60ST	SN3	3GHz High Pass Filter	Jun. 29, 2023	Apr. 25, 2024~ May 29, 2024	Jun. 28, 2024	Radiation (03CH16-HY)
Filter	Wainwright	WHKX8-5872.5-6 750-18000-40ST	SN27	6.75GHz High Pass Filter	Nov. 13, 2023	Apr. 25, 2024~ May 29, 2024	Nov. 12, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Apr. 25, 2024~ May 29, 2024	Mar. 05, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-57 57,805935/4,8 02434/4	30MHz~18GHz	Aug. 08, 2023	Apr. 25, 2024~ May 29, 2024	Aug. 07, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,8040 12/2	18-40GHz	Jan. 02, 2024	Apr. 25, 2024~ May 29, 2024	Jan. 01, 2025	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Apr. 25, 2024~ May 29, 2024	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Apr. 25, 2024~ May 29, 2024	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 25, 2024~ May 29, 2024	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 25, 2024~ May 29, 2024	N/A	Radiation (03CH16-HY)
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	May 10, 2024~ Jun. 07, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17100015SNO 36 (NO:35_144)	10MHz~6GHz	Aug. 23, 2023	May 10, 2024~ Jun. 07, 2024	Aug. 22, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Jan. 24, 2024	May 10, 2024~ Jun. 07, 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	ChainTek	APC-1000W	N/A	N/A	N/A	May 15, 2024~ May 28, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	May 15, 2024~ May 28, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	May 15, 2024~ May 28, 2024	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	May 15, 2024~ May 28, 2024	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	May 15, 2024~ May 28, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2023	May 15, 2024~ May 28, 2024	Jul. 27, 2024	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 28, 2023	May 15, 2024~ May 28, 2024	Dec. 27, 2024	Conduction (CO05-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.5 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ju Chang	Temperature:	21~25	°C
Test Date:	2024/05/10-2024/06/07	Relative Humidity:	51~54	%

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

UNII-4 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 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9		
11a	6Mbps	2	169	5845	16.28	16.34	18.99	19.15	15.07	15.12	0.5	Pass
11a	6Mbps	2	173	5865	16.29	16.37	18.78	19.14	15.33	15.11	0.5	Pass
11a	6Mbps	2	177	5885	16.31	16.35	19.26	19.39	15.11	15.13	0.5	Pass

TEST RESULTS DATA
Average Power Table

UNII-4 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 8	Ant 9	SUM	Ant 8	Ant 9	Ant 8	Ant 9	
11a	6Mbps	2	169	5845	16.66	16.63	19.66	30.00		2.00		Pass
11a	6Mbps	2	173	5865	16.76	16.40	19.59	30.00		2.00		Pass
11a	6Mbps	2	177	5885	15.76	16.50	19.16	30.00		2.00		Pass
HT20	MCS0	2	169	5845	15.50	15.70	18.61	30.00		2.00		Pass
HT20	MCS0	2	173	5865	15.60	15.44	18.53	30.00		2.00		Pass
HT20	MCS0	2	177	5885	13.15	12.35	15.78	30.00		2.00		Pass
HT40	MCS0	2	167	5835	15.50	15.76	18.64	30.00		2.00		Pass
HT40	MCS0	2	175	5875	15.70	15.57	18.65	30.00		2.00		Pass
VHT20	MCS0	2	169	5845	15.60	15.70	18.66	30.00		2.00		Pass
VHT20	MCS0	2	173	5865	15.70	15.50	18.61	30.00		2.00		Pass
VHT20	MCS0	2	177	5885	13.10	12.46	15.80	30.00		2.00		Pass
VHT40	MCS0	2	167	5835	15.70	15.60	18.66	30.00		2.00		Pass
VHT40	MCS0	2	175	5875	15.71	15.60	18.67	30.00		2.00		Pass
VHT80	MCS0	2	171	5855	15.50	15.73	18.63	30.00		2.00		Pass
VHT160	MCS0	2	163	5815	15.68	15.43	18.57	30.00		2.00		Pass

UNII-4 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			DG (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
					Ant 8	Ant 9	SUM	Ant 8 + Ant 9	Ant 8 + Ant 9	Ant 8 + Ant 9
11a	MCS0	2	169	5845	16.66	16.63	19.66	2.00	21.66	30
11a	MCS0	2	173	5865	16.76	16.40	19.59	2.00	21.59	30
11a	MCS0	2	177	5885	15.76	16.50	19.16	2.00	21.16	30
HT20	MCS0	2	169	5845	15.50	15.70	18.61	2.00	20.61	30
HT20	MCS0	2	173	5865	15.60	15.44	18.53	2.00	20.53	30
HT20	MCS0	2	177	5885	13.15	12.35	15.78	2.00	17.78	30
HT40	MCS0	2	167	5835	15.50	15.76	18.64	2.00	20.64	30
HT40	MCS0	2	175	5875	15.70	15.57	18.65	2.00	20.65	30
VHT20	MCS0	2	169	5845	15.60	15.70	18.66	2.00	20.66	30
VHT20	MCS0	2	173	5865	15.70	15.50	18.61	2.00	20.61	30
VHT20	MCS0	2	177	5885	13.10	12.46	15.80	2.00	17.80	30
VHT40	MCS0	2	167	5835	15.70	15.60	18.66	2.00	20.66	30
VHT40	MCS0	2	175	5875	15.71	15.60	18.67	2.00	20.67	30
VHT80	MCS0	2	171	5855	15.50	15.73	18.63	2.00	20.63	30
VHT160	MCS0	2	163	5815	15.68	15.43	18.57	2.00	20.57	30

TEST RESULTS DATA
Power Spectral Density

UNII-4 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			DG (dBi)	EIRP PSD (dBm/MHz)		EIRP PSD Limit (dBm/MHz)	Pass /Fail
					Ant 8	Ant 9	Ant 8	Ant 9	SUM		Ant 8 + Ant 9	Ant 8 + Ant 9		
11a	6Mbps	2	169	5845	0.03	0.03			9.51	3.98	13.49	14.00	Pass	
11a	6Mbps	2	173	5865	0.03	0.03			9.25	3.98	13.23	14.00	Pass	
11a	6Mbps	2	177	5885	0.03	0.03			9.30	3.98	13.28	14.00	Pass	
VHT20	MCS0	2	169	5845	0.00	0.00			8.04	3.98	12.02	14.00	Pass	
VHT20	MCS0	2	173	5865	0.00	0.00			7.82	3.98	11.79	14.00	Pass	
VHT20	MCS0	2	177	5885	0.00	0.00			5.09	3.98	9.07	14.00	Pass	
VHT40	MCS0	2	167	5835	0.00	0.00			5.17	3.98	9.15	14.00	Pass	
VHT40	MCS0	2	175	5875	0.00	0.00			5.28	3.98	9.26	14.00	Pass	
VHT80	MCS0	2	171	5855	0.00	0.00			3.43	3.98	7.41	14.00	Pass	
VHT160	MCS0	2	163	5815	0.03	0.03			-0.13	3.98	3.85	14.00	Pass	

Note: PSD Sum = Max PSD(Ant. 8, Ant. 9) + 10 log (n)

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

UNII-4 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 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9		
HE20	MCS0	2	169	5845	Full	18.82	18.80	20.59	20.91	16.25	17.01	0.5	Pass
HE20	MCS0	2	169	5845	26/0	18.91	19.02	21.17	21.28	2.12	3.34	0.5	Pass
HE20	MCS0	2	169	5845	52/37	18.18	18.38	21.04	20.65	14.50	13.33	0.5	Pass
HE20	MCS0	2	169	5845	106/53	18.34	18.35	21.81	21.18	17.14	18.09	0.5	Pass
HE20	MCS0	2	173	5865	Full	18.83	18.83	21.03	20.98	15.55	17.23	0.5	Pass
HE20	MCS0	2	173	5865	26/4	17.32	17.12	18.93	18.67	2.65	13.77	0.5	Pass
HE20	MCS0	2	173	5865	52/38	17.36	17.13	19.67	18.92	15.06	15.07	0.5	Pass
HE20	MCS0	2	173	5865	106/53	18.34	18.37	21.74	21.38	17.09	17.71	0.5	Pass
HE20	MCS0	2	177	5885	Full	18.82	18.78	20.73	21.02	15.07	15.03	0.5	Pass
HE20	MCS0	2	177	5885	26/8	18.73	18.49	20.74	20.58	2.02	2.07	0.5	Pass
HE20	MCS0	2	177	5885	52/40	18.42	18.26	21.11	20.58	17.05	17.06	0.5	Pass
HE20	MCS0	2	177	5885	106/54	18.38	18.09	21.13	20.82	18.30	17.34	0.5	Pass
HE40	MCS0	2	167	5835	Full	37.71	37.65	41.12	41.15	35.96	33.35	0.5	Pass
HE40	MCS0	2	175	5875	Full	37.68	37.65	41.14	41.17	36.10	35.07	0.5	Pass
HE80	MCS0	2	171	5855	Full	76.68	76.66	81.63	81.92	73.86	65.06	0.5	Pass
HE160	MCS0	2	163	5815	Full	155.82	155.59	165.02	163.87	145.12	153.89	0.5	Pass

TEST RESULTS DATA
Average Power Table

UNII-4 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 8	Ant 9	SUM	Ant 8	Ant 9	Ant 8	Ant 9	
HE20	MCS0	2	169	5845	Full	15.56	15.67	18.63	30.00		2.00		Pass
HE20	MCS0	2	169	5845	26/0	9.88	8.66	12.32	30.00		2.00		Pass
HE20	MCS0	2	169	5845	52/37	13.00	11.28	15.23	30.00		2.00		Pass
HE20	MCS0	2	169	5845	106/53	15.34	14.90	18.14	30.00		2.00		Pass
HE20	MCS0	2	173	5865	Full	15.84	15.48	18.67	30.00		2.00		Pass
HE20	MCS0	2	173	5865	26/4	9.63	9.49	12.57	30.00		2.00		Pass
HE20	MCS0	2	173	5865	52/38	12.03	12.66	15.37	30.00		2.00		Pass
HE20	MCS0	2	173	5865	106/53	15.65	15.05	18.37	30.00		2.00		Pass
HE20	MCS0	2	177	5885	Full	13.36	12.58	16.00	30.00		2.00		Pass
HE20	MCS0	2	177	5885	26/8	6.98	9.06	11.15	30.00		2.00		Pass
HE20	MCS0	2	177	5885	52/40	10.59	11.60	14.13	30.00		2.00		Pass
HE20	MCS0	2	177	5885	106/54	11.50	11.64	14.58	30.00		2.00		Pass
HE40	MCS0	2	167	5835	Full	15.70	15.51	18.62	30.00		2.00		Pass
HE40	MCS0	2	175	5875	Full	15.43	15.80	18.63	30.00		2.00		Pass
HE80	MCS0	2	171	5855	Full	15.50	15.75	18.64	30.00		2.00		Pass
HE160	MCS0	2	163	5815	Full	15.80	15.40	18.61	30.00		2.00		Pass

UNII-4 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			DG (dBi)		E.I.R.P Power (dBm)		E.I.R.P Limit (dBm)	
						Ant 8	Ant 9	SUM	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9
HE20	MCS0	2	169	5845	Full	15.56	15.67	18.63	2.00		20.63		30	
HE20	MCS0	2	169	5845	26/0	9.88	8.66	12.32	2.00		14.32		30	
HE20	MCS0	2	169	5845	52/37	13.00	11.28	15.23	2.00		17.23		30	
HE20	MCS0	2	169	5845	106/53	15.34	14.90	18.14	2.00		20.14		30	
HE20	MCS0	2	173	5865	Full	15.84	15.48	18.67	2.00		20.67		30	
HE20	MCS0	2	173	5865	26/4	9.63	9.49	12.57	2.00		14.57		30	
HE20	MCS0	2	173	5865	52/38	12.03	12.66	15.37	2.00		17.37		30	
HE20	MCS0	2	173	5865	106/53	15.65	15.05	18.37	2.00		20.37		30	
HE20	MCS0	2	177	5885	Full	13.36	12.58	16.00	2.00		18.00		30	
HE20	MCS0	2	177	5885	26/8	6.98	9.06	11.15	2.00		13.15		30	
HE20	MCS0	2	177	5885	52/40	10.59	11.60	14.13	2.00		16.13		30	
HE20	MCS0	2	177	5885	106/54	11.50	11.64	14.58	2.00		16.58		30	
HE40	MCS0	2	167	5835	Full	15.70	15.51	18.62	2.00		20.62		30	
HE40	MCS0	2	175	5875	Full	15.43	15.80	18.63	2.00		20.63		30	
HE80	MCS0	2	171	5855	Full	15.50	15.75	18.64	2.00		20.64		30	
HE160	MCS0	2	163	5815	Full	15.80	15.40	18.61	2.00		20.61		30	

TEST RESULTS DATA
Power Spectral Density

UNII-4 MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			DG (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass /Fail
						Ant 8	Ant 9	Ant 8	Ant 9	SUM				
HE20	MCS0	2	169	5845	Full	0.00	0.00			8.07	3.98	12.05	14.00	Pass
HE20	MCS0	2	169	5845	26/0	0.00	0.00			8.23	3.98	12.21	14.00	Pass
HE20	MCS0	2	169	5845	52/37	0.00	0.00			9.14	3.98	13.12	14.00	Pass
HE20	MCS0	2	169	5845	106/53	0.00	0.00			9.13	3.98	13.11	14.00	Pass
HE20	MCS0	2	173	5865	Full	0.00	0.00			7.83	3.98	11.81	14.00	Pass
HE20	MCS0	2	173	5865	26/4	0.00	0.00			8.40	3.98	12.38	14.00	Pass
HE20	MCS0	2	173	5865	52/38	0.00	0.00			9.31	3.98	13.29	14.00	Pass
HE20	MCS0	2	173	5865	106/53	0.00	0.00			9.24	3.98	13.22	14.00	Pass
HE20	MCS0	2	177	5885	Full	0.00	0.00			5.07	3.98	9.05	14.00	Pass
HE20	MCS0	2	177	5885	26/8	0.00	0.00			7.23	3.98	11.21	14.00	Pass
HE20	MCS0	2	177	5885	52/40	0.00	0.00			8.24	3.98	12.22	14.00	Pass
HE20	MCS0	2	177	5885	106/54	0.00	0.00			5.48	3.98	9.46	14.00	Pass
HE40	MCS0	2	167	5835	Full	0.00	0.00			5.52	3.98	9.50	14.00	Pass
HE40	MCS0	2	175	5875	Full	0.00	0.00			5.15	3.98	9.13	14.00	Pass
HE80	MCS0	2	171	5855	Full	0.00	0.00			3.30	3.98	7.28	14.00	Pass
HE160	MCS0	2	163	5815	Full	0.03	0.03			-0.17	3.98	3.81	14.00	Pass

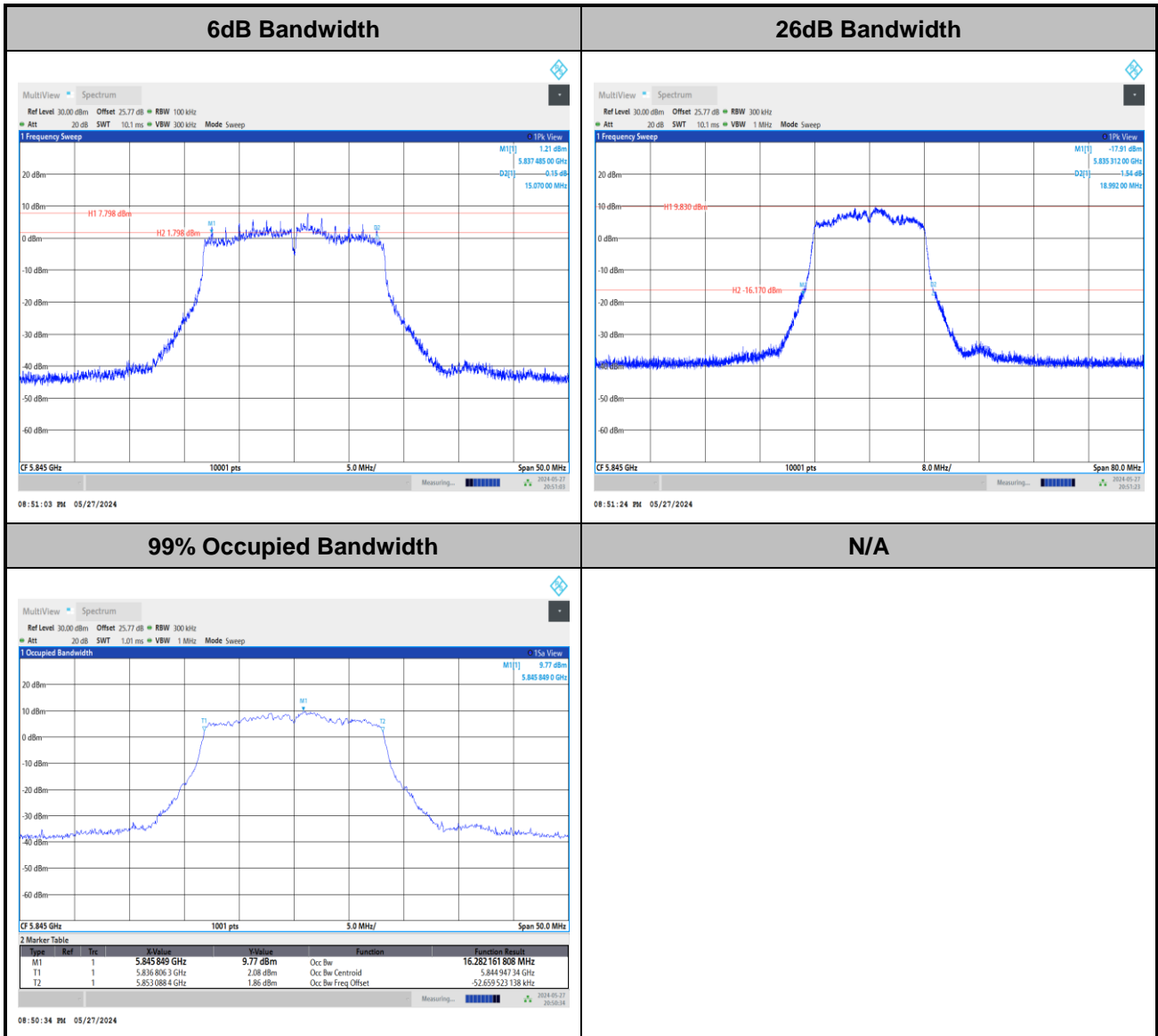
Note: PSD Sum = Max PSD(Ant. 8, Ant. 9) + 10 log (n)



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

MIMO <Ant. 8+9>

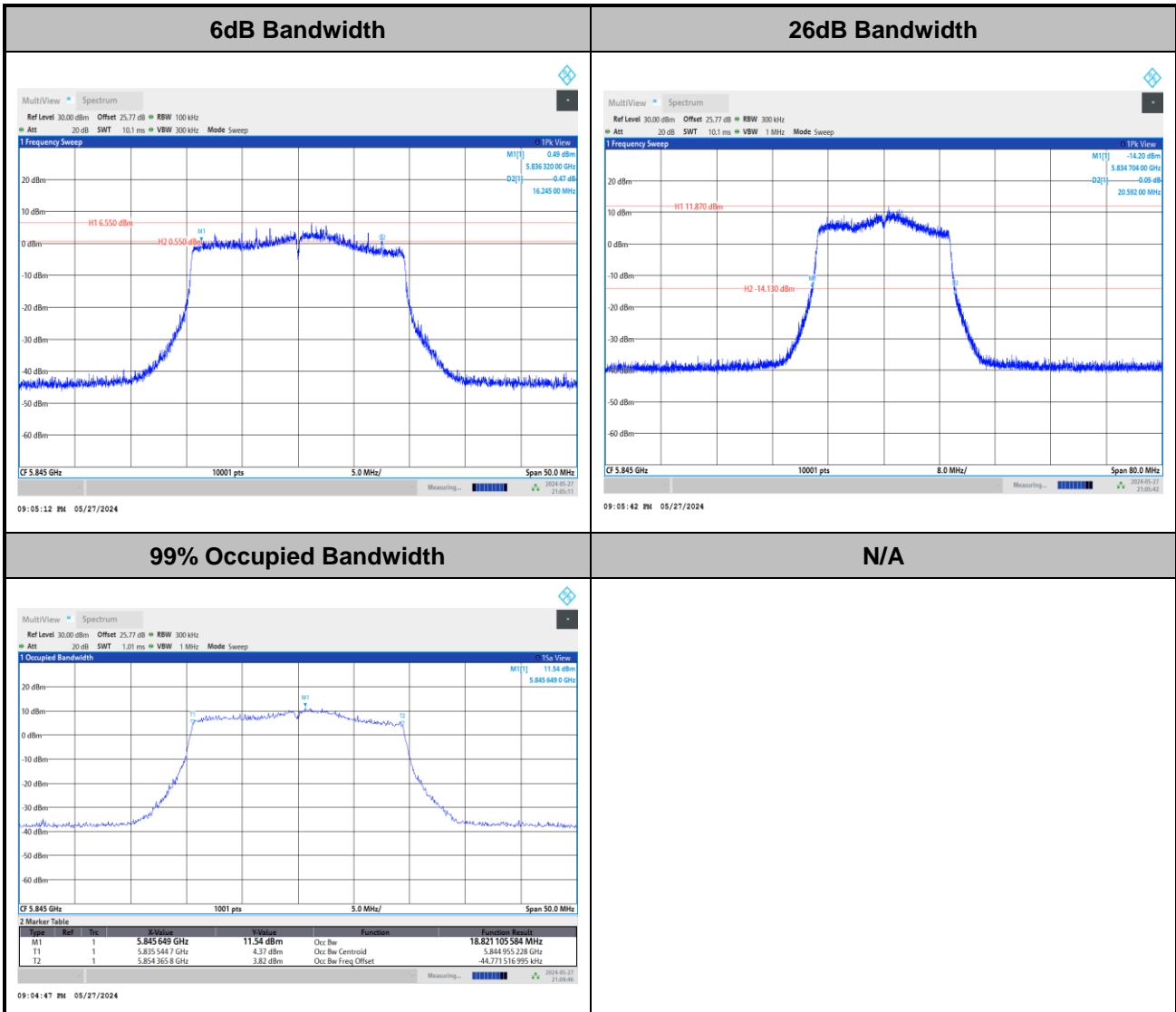
<802.11a>



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



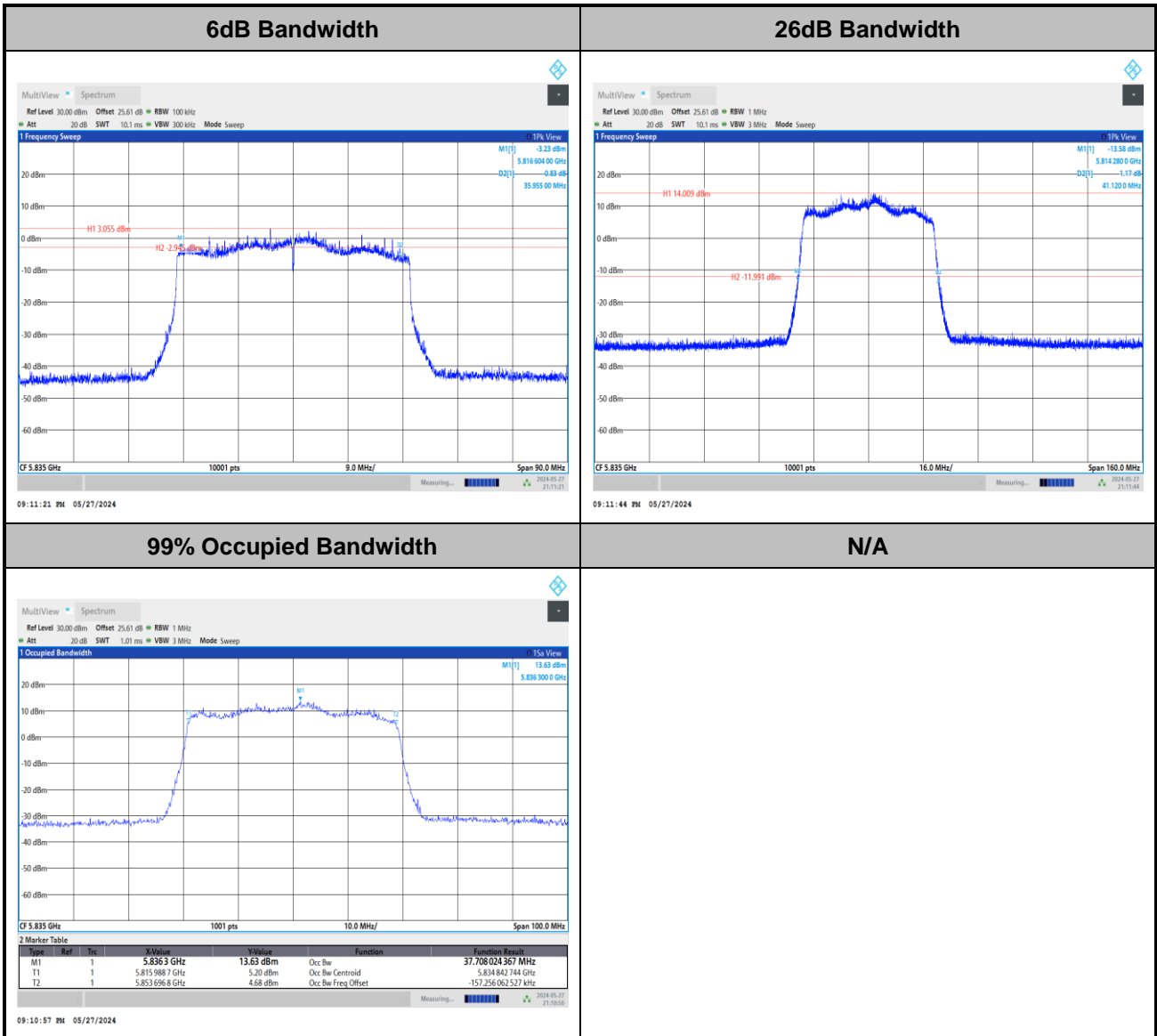
<802.11ax HE20>



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



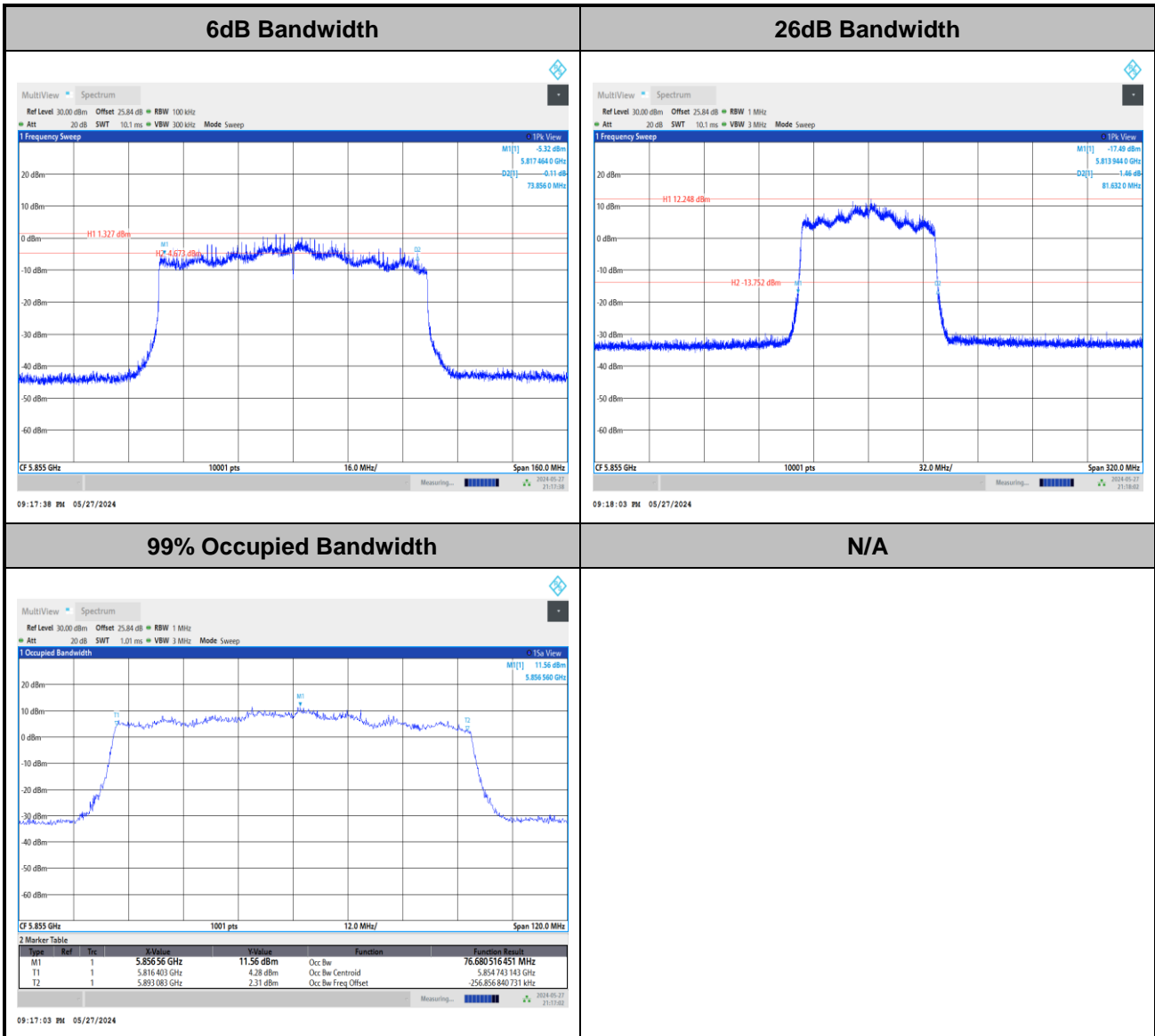
<802.11ax HE40>



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



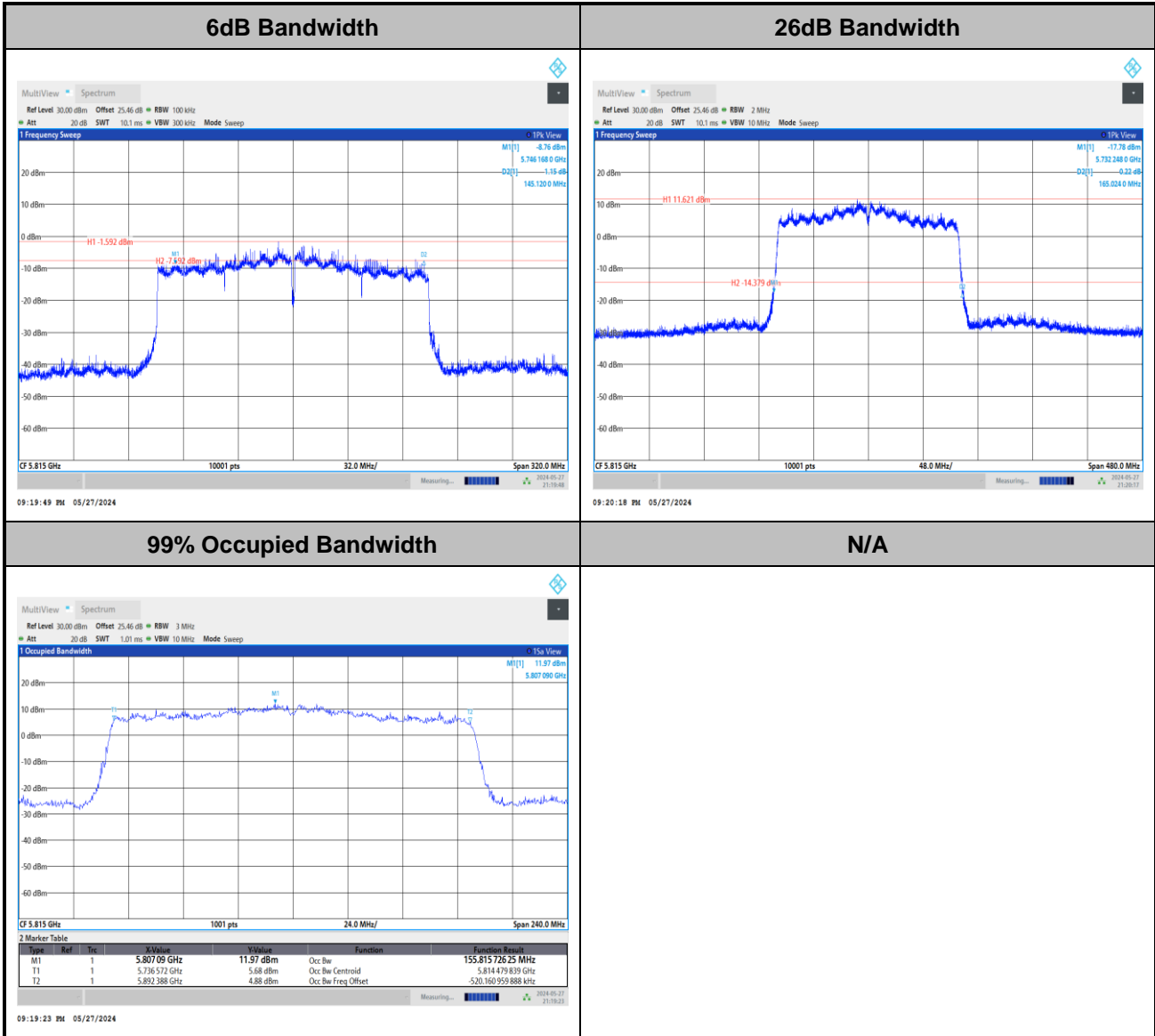
<802.11ax HE80>



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



<802.11ax HE160>

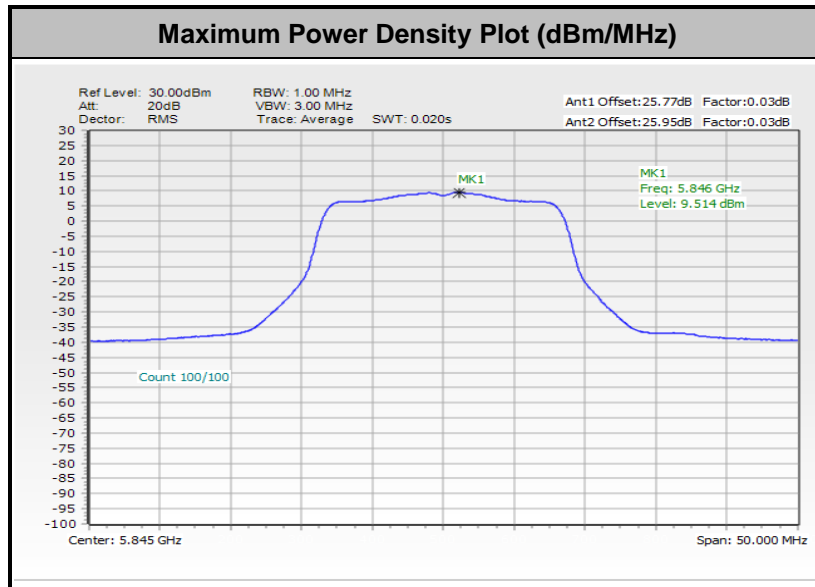


Note: The occupied channel bandwidth is maintained within the band of operation.

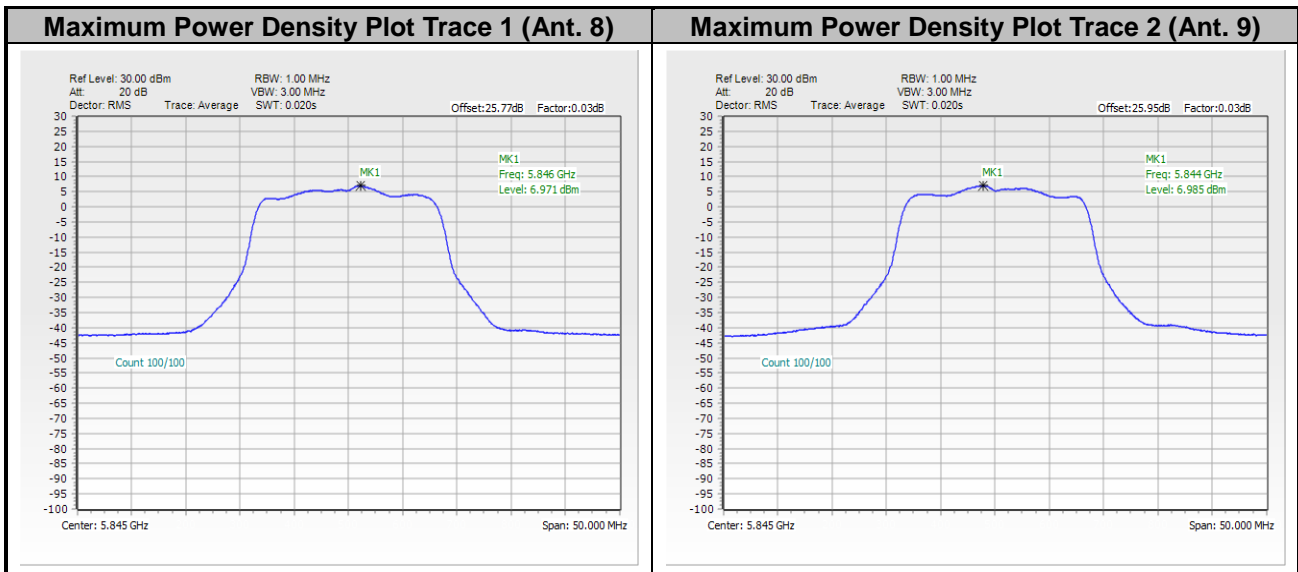


Test Result of Power Spectral Density

<802.11a>

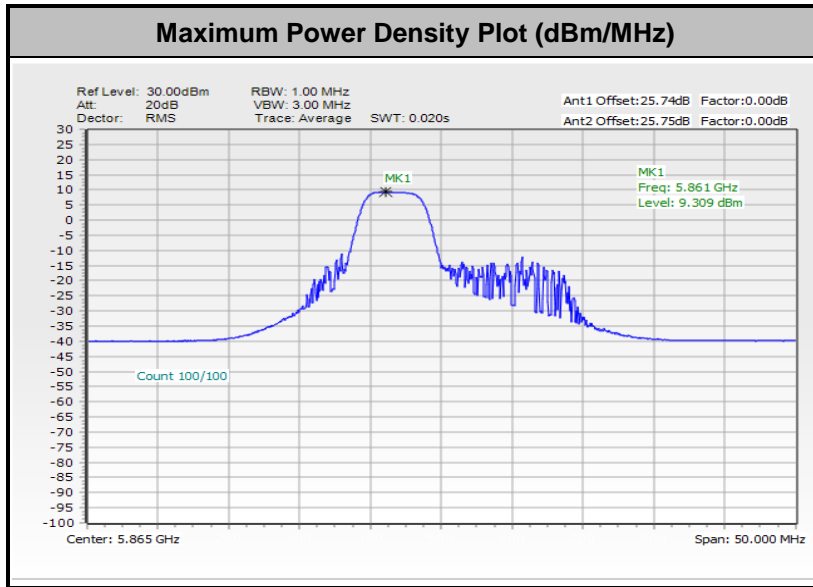


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

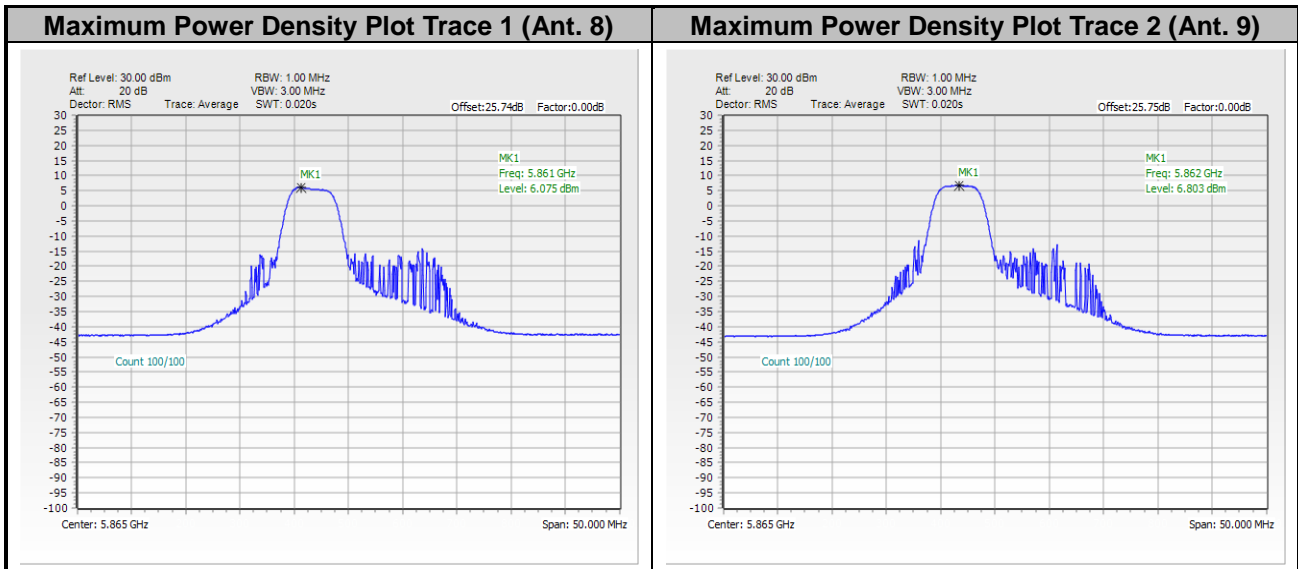




<802.11ax HE20>

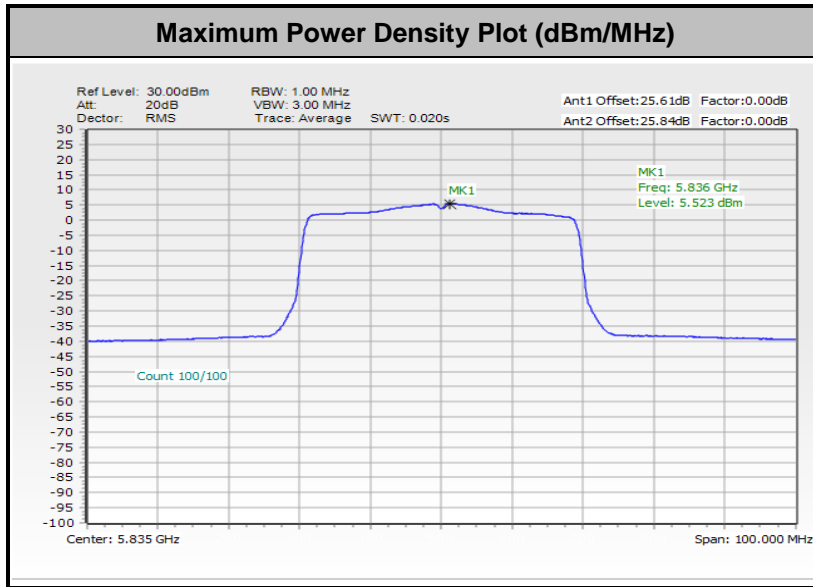


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

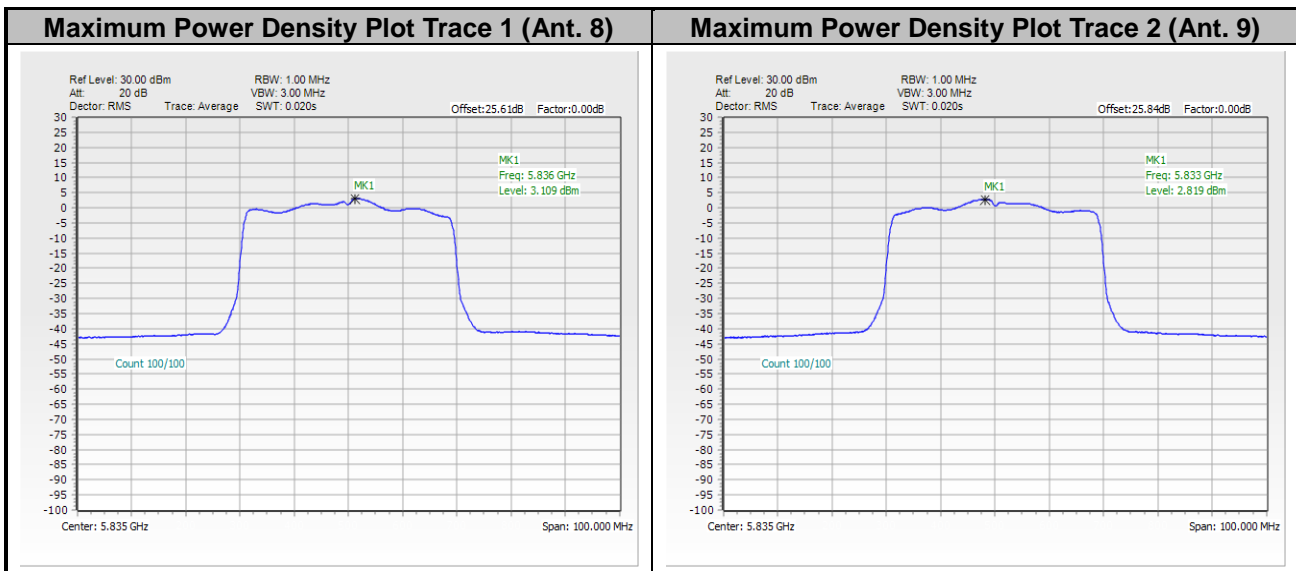




<802.11ax HE40>

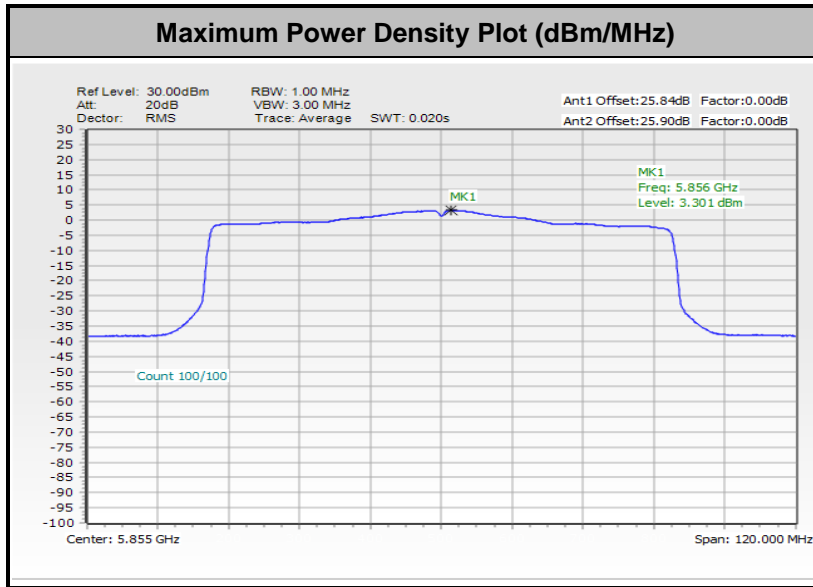


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

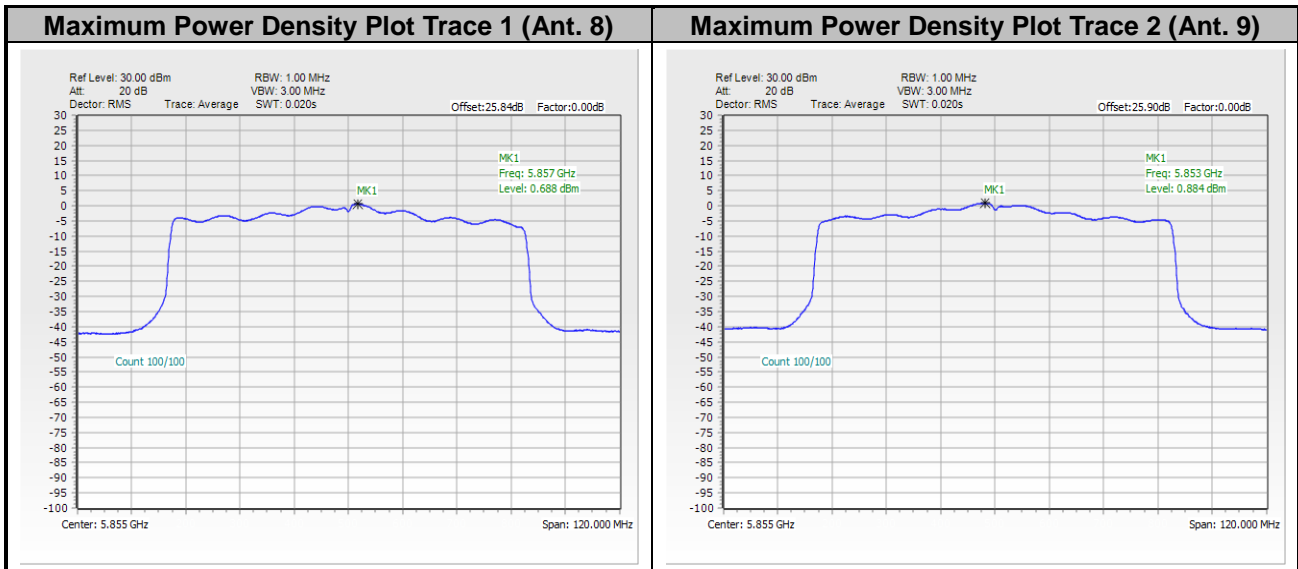




<802.11ax HE80>

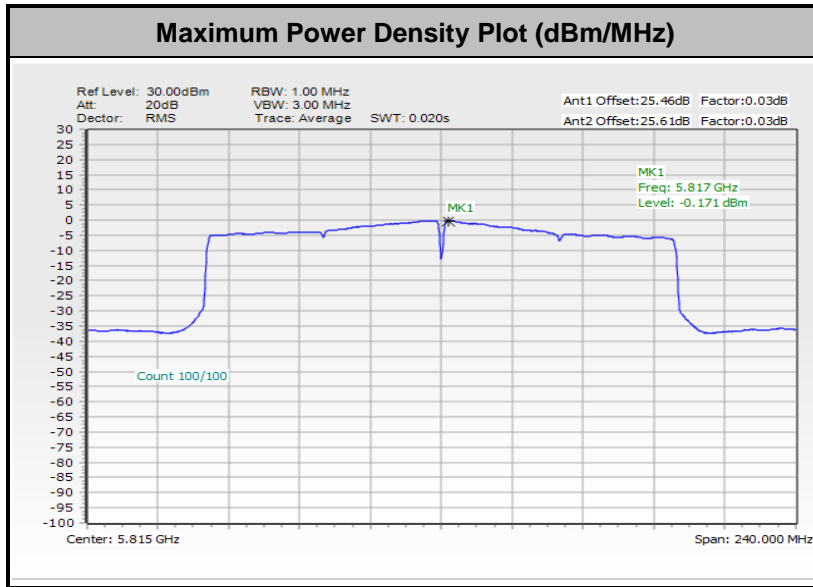


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

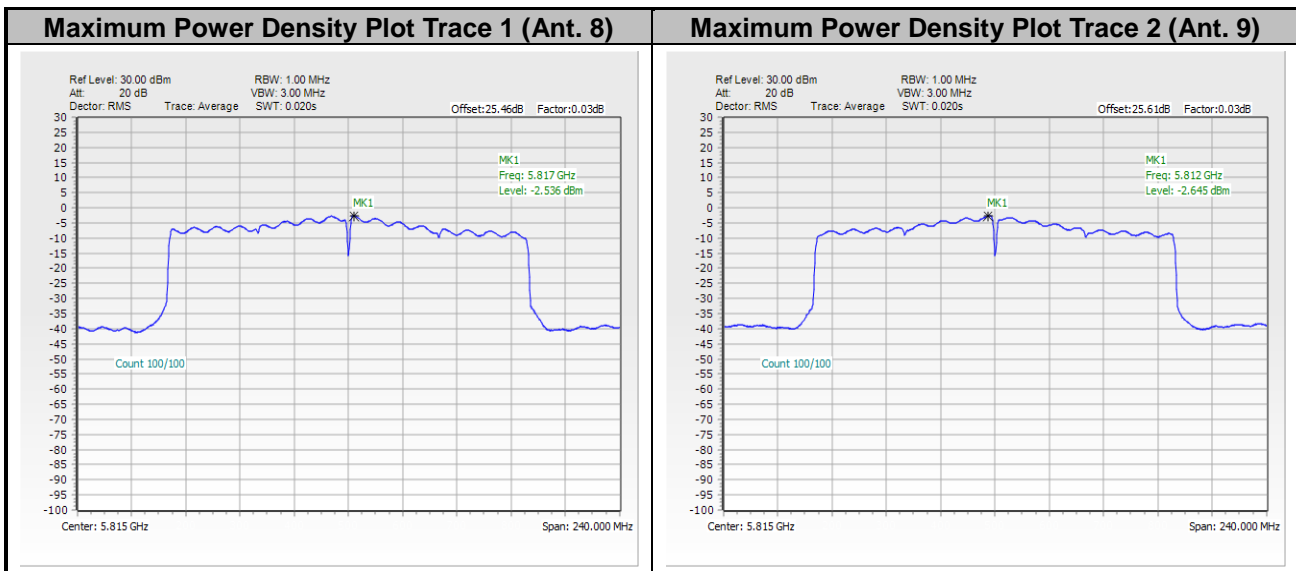




<802.11ax HE160>



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.





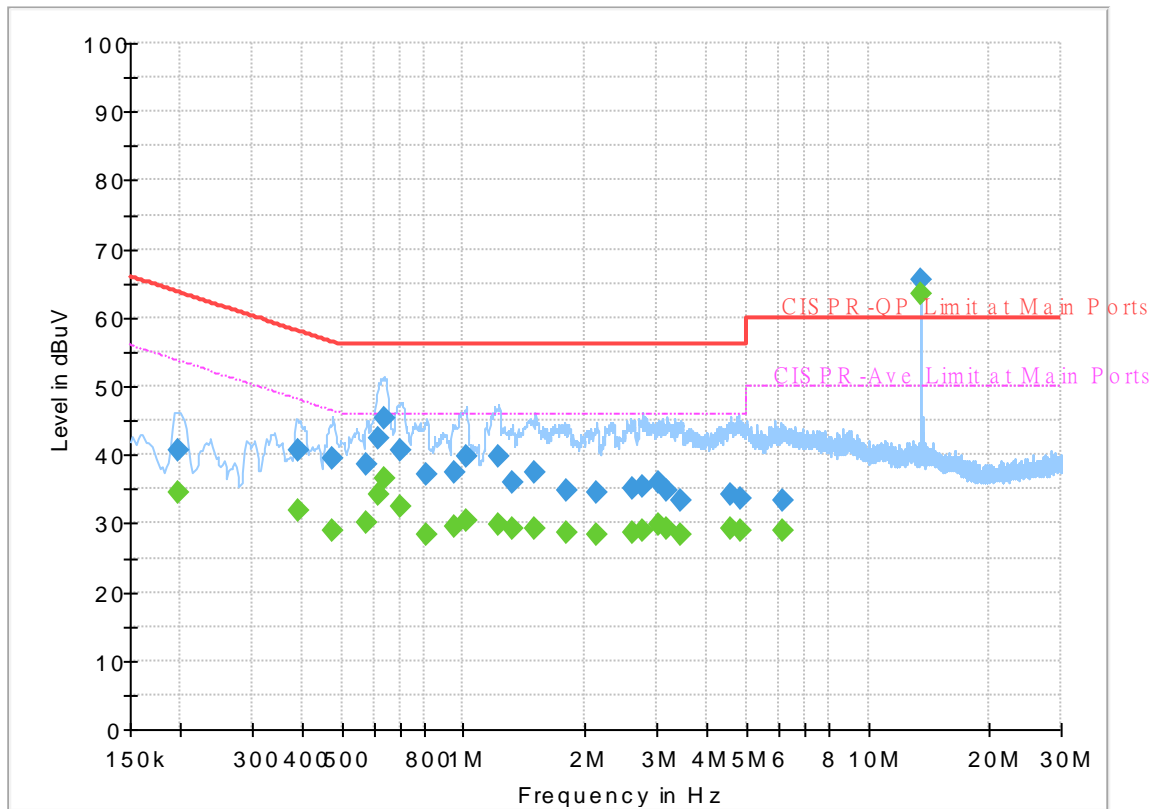
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%

Original

Report NO : 440146
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



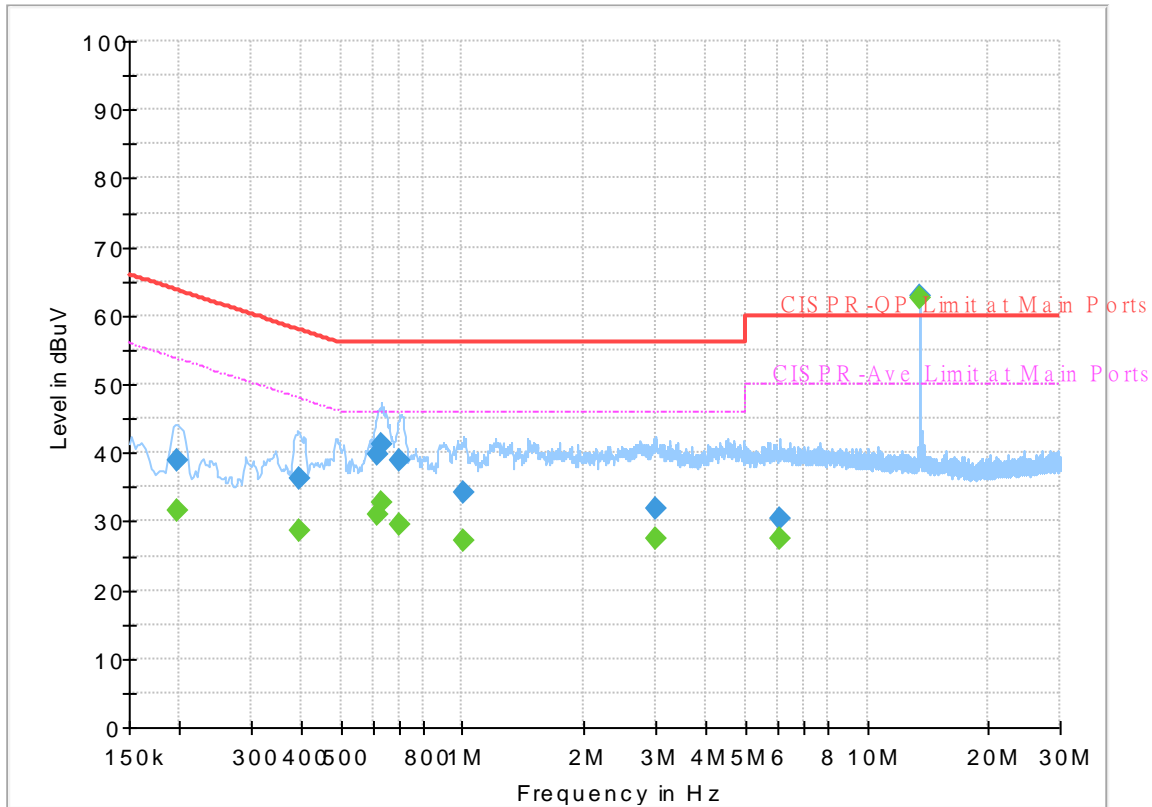
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.197250	---	34.62	53.73	19.11	L1	OFF	19.8
0.197250	40.76	---	63.73	22.97	L1	OFF	19.8
0.388500	---	31.77	48.10	16.33	L1	OFF	19.8
0.388500	40.61	---	58.10	17.49	L1	OFF	19.8
0.476250	---	28.85	46.40	17.55	L1	OFF	19.8
0.476250	39.61	---	56.40	16.79	L1	OFF	19.8
0.577500	---	30.02	46.00	15.98	L1	OFF	19.8
0.577500	38.61	---	56.00	17.39	L1	OFF	19.8
0.615750	---	34.13	46.00	11.87	L1	OFF	19.8
0.615750	42.25	---	56.00	13.75	L1	OFF	19.8
0.640500	---	36.49	46.00	9.51	L1	OFF	19.8
0.640500	45.32	---	56.00	10.68	L1	OFF	19.8
0.701250	---	32.34	46.00	13.66	L1	OFF	19.8
0.701250	40.67	---	56.00	15.33	L1	OFF	19.8
0.811500	---	28.26	46.00	17.74	L1	OFF	19.8
0.811500	37.17	---	56.00	18.83	L1	OFF	19.8
0.948750	---	29.58	46.00	16.42	L1	OFF	19.8
0.948750	37.46	---	56.00	18.54	L1	OFF	19.8
1.011750	---	30.38	46.00	15.62	L1	OFF	19.8
1.011750	39.76	---	56.00	16.24	L1	OFF	19.8
1.218750	---	29.87	46.00	16.13	L1	OFF	19.8

1.218750	39.87	---	56.00	16.13	L1	OFF	19.8
1.326750	---	29.27	46.00	16.73	L1	OFF	19.9
1.326750	35.87	---	56.00	20.13	L1	OFF	19.9
1.506750	---	29.10	46.00	16.90	L1	OFF	19.9
1.506750	37.31	---	56.00	18.69	L1	OFF	19.9
1.794750	---	28.52	46.00	17.48	L1	OFF	19.9
1.794750	34.73	---	56.00	21.27	L1	OFF	19.9
2.136750	---	28.23	46.00	17.77	L1	OFF	19.9
2.136750	34.61	---	56.00	21.39	L1	OFF	19.9
2.622750	---	28.75	46.00	17.25	L1	OFF	19.9
2.622750	35.21	---	56.00	20.79	L1	OFF	19.9
2.773500	---	28.83	46.00	17.17	L1	OFF	19.9
2.773500	35.46	---	56.00	20.54	L1	OFF	19.9
3.025500	---	29.80	46.00	16.20	L1	OFF	19.9
3.025500	35.89	---	56.00	20.11	L1	OFF	19.9
3.192000	---	29.17	46.00	16.83	L1	OFF	19.9
3.192000	34.91	---	56.00	21.09	L1	OFF	19.9
3.437250	---	28.32	46.00	17.68	L1	OFF	19.9
3.437250	33.36	---	56.00	22.64	L1	OFF	19.9
4.596000	---	29.36	46.00	16.64	L1	OFF	20.0
4.596000	34.29	---	56.00	21.71	L1	OFF	20.0
4.830000	---	29.06	46.00	16.94	L1	OFF	20.0
4.830000	33.53	---	56.00	22.47	L1	OFF	20.0
6.171000	---	28.95	50.00	21.05	L1	OFF	20.1
6.171000	33.23	---	60.00	26.77	L1	OFF	20.1
13.560000	---	63.59	50.00	-13.59	L1	OFF	20.5
13.560000	65.40	---	60.00	-5.40	L1	OFF	20.5

Report NO : 440146
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



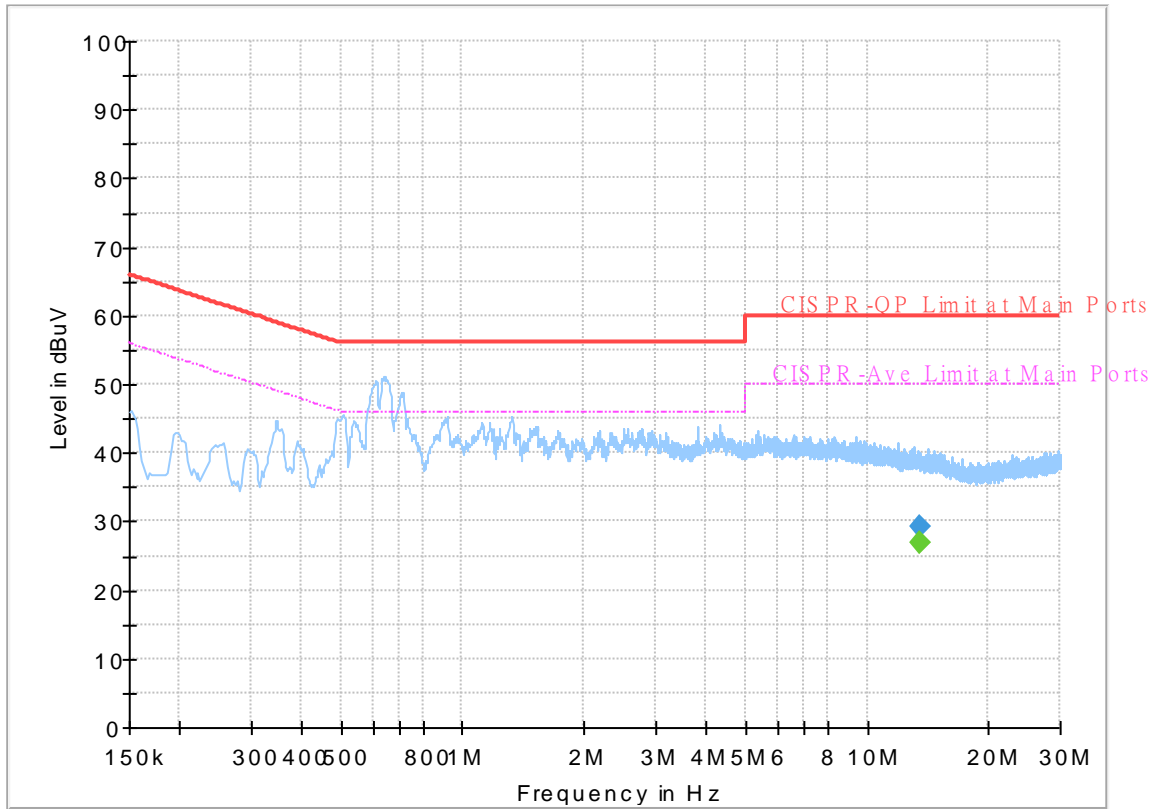
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.197250	---	31.67	53.73	22.06	N	OFF	19.8
0.197250	38.99	---	63.73	24.74	N	OFF	19.8
0.395250	---	28.73	47.95	19.22	N	OFF	19.8
0.395250	36.28	---	57.95	21.67	N	OFF	19.8
0.615750	---	30.98	46.00	15.02	N	OFF	19.8
0.615750	39.75	---	56.00	16.25	N	OFF	19.8
0.629250	---	32.61	46.00	13.39	N	OFF	19.8
0.629250	41.29	---	56.00	14.71	N	OFF	19.8
0.699000	---	29.53	46.00	16.47	N	OFF	19.8
0.699000	38.95	---	56.00	17.05	N	OFF	19.8
1.005000	---	27.28	46.00	18.72	N	OFF	19.8
1.005000	34.35	---	56.00	21.65	N	OFF	19.8
2.998500	---	27.38	46.00	18.62	N	OFF	19.9
2.998500	31.89	---	56.00	24.11	N	OFF	19.9
6.114750	---	27.45	50.00	22.55	N	OFF	20.1
6.114750	30.41	---	60.00	29.59	N	OFF	20.1
13.560000	---	62.46	50.00	-12.46	N	OFF	20.5
13.560000	62.86	---	60.00	-2.86	N	OFF	20.5

Terminal

Report NO : 440146
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum

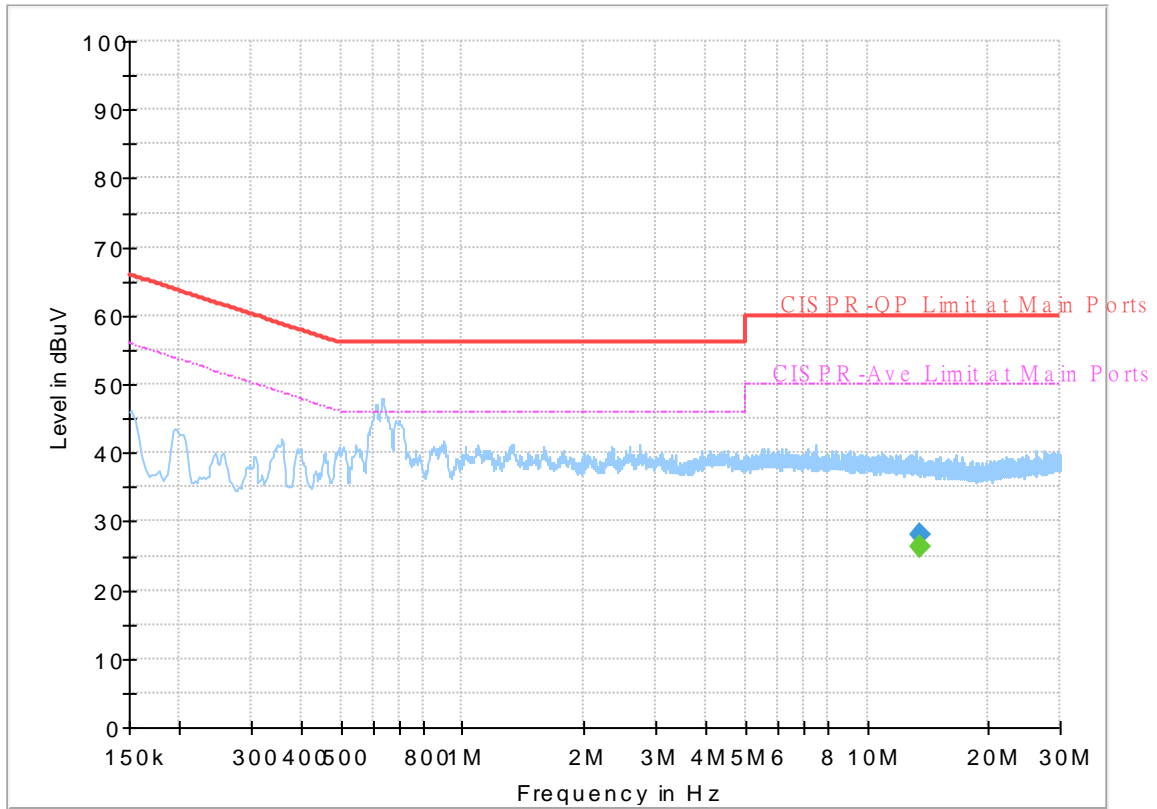


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000	---	26.82	50.00	23.18	L1	OFF	20.5
13.560000	29.13	---	60.00	30.87	L1	OFF	20.5

Report NO : 440146
 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)
13.560000	---	26.26	50.00	23.74	N	OFF	20.5
13.560000	28.14	---	60.00	31.86	N	OFF	20.5



Appendix C. Radiated Spurious Emission

Test Engineer :	Bill Chang, Gary Guo and Steven Wu	Temperature :	20.1~20.8°C
		Relative Humidity :	50.1~67.6%

UNII 4 - 5600~5950MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	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 169 5845MHz		5604.425	54.56	-13.64	68.2	39.26	32.82	11.85	29.37	215	357	P	H
		5651.92	53.94	-15.69	69.63	38.41	33.02	11.89	29.38	215	357	P	H
		5706.79	54.19	-52.91	107.1	38.23	33.41	11.94	29.39	215	357	P	H
		5720.36	55.79	-55.83	111.62	39.79	33.44	11.95	29.39	215	357	P	H
	*	5845	112.15	-	-	95.56	33.89	12.12	29.42	215	357	P	H
	*	5845	107.12	-	-	90.53	33.89	12.12	29.42	215	357	A	H
		5909.75	56.57	-42.8	99.37	39.62	34.1	12.28	29.43	215	357	P	H
		5976.25	57.13	-31.07	88.2	40.04	34.1	12.44	29.45	215	357	P	H
		5898.25	47.46	-40.35	87.81	30.55	34.09	12.25	29.43	215	357	A	H
		5927.5	47.17	-21.03	68.2	30.19	34.1	12.32	29.44	215	357	A	H
		5647.2	54.36	-13.84	68.2	38.86	32.99	11.89	29.38	103	273	P	V
		5676.7	54.51	-33.49	88	38.78	33.21	11.91	29.39	103	273	P	V
		5702.66	56.35	-49.6	105.95	40.4	33.41	11.93	29.39	103	273	P	V
		5723.31	53.75	-64.6	118.35	37.74	33.45	11.95	29.39	103	273	P	V
	*	5845	107.73	-	-	91.14	33.89	12.12	29.42	103	273	P	V
	*	5845	102.51	-	-	85.92	33.89	12.12	29.42	103	273	A	V
		5911	57.11	-41.34	98.45	40.16	34.1	12.28	29.43	103	273	P	V
		5948.25	57	-31.2	88.2	39.97	34.1	12.37	29.44	103	273	P	V
		5916.5	46.97	-27.45	74.42	30	34.1	12.3	29.43	103	273	A	V
		5933	46.96	-21.24	68.2	29.96	34.1	12.34	29.44	103	273	A	V



WIFI Ant. 8+9	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 173 5865MHz		5643.66	55.25	-12.95	68.2	39.78	32.97	11.88	29.38	264	358	P	H
		5687.91	55.14	-41.14	96.28	39.31	33.3	11.92	29.39	264	358	P	H
		5713.28	55.58	-53.34	108.92	39.6	33.43	11.94	29.39	264	358	P	H
		5724.195	53.78	-66.58	120.36	37.77	33.45	11.95	29.39	264	358	P	H
	*	5865	113.05	-	-	96.34	33.96	12.17	29.42	264	358	P	H
	*	5865	107.57	-	-	90.86	33.96	12.17	29.42	264	358	A	H
		5896.75	58.26	-50.65	108.91	41.35	34.09	12.25	29.43	264	358	P	H
		5929.25	57.25	-30.95	88.2	40.26	34.1	12.33	29.44	264	358	P	H
		5895	49	-41.2	90.2	32.11	34.08	12.24	29.43	264	358	A	H
		5927	47.48	-20.72	68.2	30.5	34.1	12.32	29.44	264	358	A	H
		5612.98	54.76	-13.44	68.2	39.42	32.85	11.86	29.37	100	273	P	V
		5670.8	54.8	-28.83	83.63	39.1	33.17	11.91	29.38	100	273	P	V
		5713.28	55.26	-53.66	108.92	39.28	33.43	11.94	29.39	100	273	P	V
		5723.605	53.4	-65.62	119.02	37.39	33.45	11.95	29.39	100	273	P	V
	*	5865	108.42	-	-	91.71	33.96	12.17	29.42	100	273	P	V
	*	5865	103.26	-	-	86.55	33.96	12.17	29.42	100	273	A	V
		5904.25	55.74	-47.66	103.4	38.8	34.1	12.27	29.43	100	273	P	V
		5957	57.06	-31.14	88.2	40.01	34.1	12.39	29.44	100	273	P	V
		5897.25	47.6	-40.95	88.55	30.69	34.09	12.25	29.43	100	273	A	V
		5927.5	47.08	-21.12	68.2	30.1	34.1	12.32	29.44	100	273	A	V



WiFi Ant. 8+9	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 177 5885MHz		5646.905	56.09	-12.11	68.2	40.59	32.99	11.89	29.38	262	358	P	H
		5684.96	54.91	-39.19	94.1	39.1	33.28	11.92	29.39	262	358	P	H
		5718.295	54.12	-56.2	110.32	38.13	33.44	11.94	29.39	262	358	P	H
		5722.13	53.76	-61.9	115.66	37.76	33.44	11.95	29.39	262	358	P	H
	*	5885	115.69	-	-	98.86	34.04	12.22	29.43	262	358	P	H
	*	5885	108.08	-	-	91.25	34.04	12.22	29.43	262	358	A	H
		5895	85.18	-25.02	110.2	68.29	34.08	12.24	29.43	262	358	P	H
		5931	57.64	-30.56	88.2	40.65	34.1	12.33	29.44	262	358	P	H
		5895	75.94	-14.26	90.2	59.05	34.08	12.24	29.43	262	358	A	H
		5925.75	47.78	-20.42	68.2	30.8	34.1	12.32	29.44	262	358	A	H
		5628.91	55.76	-12.44	68.2	40.35	32.92	11.87	29.38	100	271	P	V
		5685.845	54.7	-40.06	94.76	38.88	33.29	11.92	29.39	100	271	P	V
		5717.705	56.3	-53.86	110.16	40.31	33.44	11.94	29.39	100	271	P	V
		5721.245	52.56	-61.08	113.64	36.56	33.44	11.95	29.39	100	271	P	V
	*	5885	109.97	-	-	93.14	34.04	12.22	29.43	100	271	P	V
	*	5885	103.42	-	-	86.59	34.04	12.22	29.43	100	271	A	V
		5895	80.91	-29.29	110.2	64.02	34.08	12.24	29.43	100	271	P	V
		5939	56.82	-31.38	88.2	39.81	34.1	12.35	29.44	100	271	P	V
		5895	70.46	-19.74	90.2	53.57	34.08	12.24	29.43	100	271	A	V
		5926.75	47.12	-21.08	68.2	30.14	34.1	12.32	29.44	100	271	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 8+9	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 169 5845MHz		7792	53.82	-14.38	68.2	68.03	36.65	13.9	65.63	101	21	P	H	
		11690	46.95	-27.05	74	56.8	38.38	17.2	65.87	-	-	P	H	
		17535	50.97	-17.23	68.2	55.1	39.08	21.46	65.3	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			7792	51.54	-16.66	68.2	65.75	36.65	13.9	65.63	100	163	P	V
			11690	46.42	-27.58	74	56.27	38.38	17.2	65.87	-	-	P	V
			17535	50.15	-18.05	68.2	54.28	39.08	21.46	65.3	-	-	P	V
														V
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WIFI Ant. 8+9	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 173 5865MHz		7825	53.91	-14.29	68.2	68.01	36.8	13.91	65.65	101	22	P	H	
		11730	46.93	-27.07	74	56.75	38.4	17.23	65.89	-	-	P	H	
		17595	50.55	-17.65	68.2	54.41	39.29	21.48	65.26	-	-	P	H	
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			7825	50.66	-17.54	68.2	64.76	36.8	13.91	65.65	100	163	P	V
			11730	47.16	-26.84	74	56.98	38.4	17.23	65.89	-	-	P	V
			17595	51.52	-16.68	68.2	55.38	39.29	21.48	65.26	-	-	P	V
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WiFi Ant. 8+9	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 177 5885MHz		7847	52.68	-15.52	68.2	66.73	36.89	13.9	65.66	100	21	P	H	
		11770	46.16	-27.84	74	55.97	38.4	17.26	65.91	-	-	P	H	
		17655	54.88	-13.32	68.2	58.43	39.54	21.51	65.23	201	334	P	H	
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													H	
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			7847	50.3	-17.9	68.2	64.35	36.89	13.9	65.66	100	163	P	V
			11770	45.36	-28.64	74	55.17	38.4	17.26	65.91	-	-	P	V
			17655	54.43	-13.77	68.2	57.98	39.54	21.51	65.23	100	342	P	V
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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.													



WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 8+9	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 169 5845MHz		5645.135	54.37	-13.83	68.2	38.88	32.98	11.89	29.38	189	360	P	H
		5698.235	55.83	-48.07	103.9	39.9	33.39	11.93	29.39	189	360	P	H
		5711.215	54.06	-54.28	108.34	38.09	33.42	11.94	29.39	189	360	P	H
		5721.54	54.15	-60.16	114.31	38.15	33.44	11.95	29.39	189	360	P	H
	*	5845	113.13	-	-	96.54	33.89	12.12	29.42	189	360	P	H
	*	5845	105.07	-	-	88.48	33.89	12.12	29.42	189	360	A	H
		5898.5	57.32	-50.31	107.63	40.41	34.09	12.25	29.43	189	360	P	H
		5965.25	55.91	-32.29	88.2	38.84	34.1	12.41	29.44	189	360	P	H
		5897.5	47.39	-40.97	88.36	30.48	34.09	12.25	29.43	189	360	A	H
		5932.75	47.12	-21.08	68.2	30.12	34.1	12.34	29.44	189	360	A	H
		5614.75	53.66	-14.54	68.2	38.31	32.86	11.86	29.37	112	271	P	V
		5674.045	53.88	-32.15	86.03	38.16	33.19	11.91	29.38	112	271	P	V
		5707.085	54.48	-52.71	107.19	38.52	33.41	11.94	29.39	112	271	P	V
		5723.9	54.85	-64.84	119.69	38.84	33.45	11.95	29.39	112	271	P	V
	*	5845	109.47	-	-	92.88	33.89	12.12	29.42	112	271	P	V
	*	5845	101.32	-	-	84.73	33.89	12.12	29.42	112	271	A	V
		5916	56.51	-38.28	94.79	39.55	34.1	12.29	29.43	112	271	P	V
		5939.5	56.28	-31.92	88.2	39.27	34.1	12.35	29.44	112	271	P	V
		5908.75	46.91	-33.19	80.1	29.96	34.1	12.28	29.43	112	271	A	V
		5952	46.88	-21.32	68.2	29.84	34.1	12.38	29.44	112	271	A	V



WIFI Ant. 8+9	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 173 5865MHz		5646.905	55.78	-12.42	68.2	40.28	32.99	11.89	29.38	203	357	P	H
		5674.045	55.57	-30.46	86.03	39.85	33.19	11.91	29.38	203	357	P	H
		5706.2	54.4	-52.54	106.94	38.45	33.41	11.93	29.39	203	357	P	H
		5723.9	53.11	-66.58	119.69	37.1	33.45	11.95	29.39	203	357	P	H
	*	5865	112.32	-	-	95.61	33.96	12.17	29.42	203	357	P	H
	*	5865	105.19	-	-	88.48	33.96	12.17	29.42	203	357	A	H
		5896.5	56.2	-52.9	109.1	39.29	34.09	12.25	29.43	203	357	P	H
		5927.75	56.6	-31.6	88.2	39.62	34.1	12.32	29.44	203	357	P	H
		5895	48.01	-42.19	90.2	31.12	34.08	12.24	29.43	203	357	A	H
		5925.25	47.09	-21.11	68.2	30.11	34.1	12.32	29.44	203	357	A	H
		5605.015	54.59	-13.61	68.2	39.29	32.82	11.85	29.37	100	272	P	V
		5656.935	53.41	-19.94	73.35	37.83	33.06	11.9	29.38	100	272	P	V
		5705.02	53.65	-52.96	106.61	37.7	33.41	11.93	29.39	100	272	P	V
		5724.195	53.03	-67.33	120.36	37.02	33.45	11.95	29.39	100	272	P	V
	*	5865	109.18	-	-	92.47	33.96	12.17	29.42	100	272	P	V
	*	5865	101.5	-	-	84.79	33.96	12.17	29.42	100	272	A	V
		5917.5	56.46	-37.23	93.69	39.49	34.1	12.3	29.43	100	272	P	V
		5931.25	55.92	-32.28	88.2	38.93	34.1	12.33	29.44	100	272	P	V
		5895	46.96	-43.24	90.2	30.07	34.08	12.24	29.43	100	272	A	V
		5940	46.73	-21.47	68.2	29.72	34.1	12.35	29.44	100	272	A	V



WIFI Ant. 8+9	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 177 5885MHz		5636.285	53.43	-14.77	68.2	37.98	32.95	11.88	29.38	211	359	P	H
		5655.755	54.86	-17.62	72.48	39.3	33.05	11.89	29.38	211	359	P	H
		5718.885	53.32	-57.17	110.49	37.32	33.44	11.95	29.39	211	359	P	H
		5723.9	53.93	-65.76	119.69	37.92	33.45	11.95	29.39	211	359	P	H
	*	5885	110.84	-	-	94.01	34.04	12.22	29.43	211	359	P	H
	*	5885	102.85	-	-	86.02	34.04	12.22	29.43	211	359	A	H
		5895	79.27	-30.93	110.2	62.38	34.08	12.24	29.43	211	359	P	H
		5986.75	56.86	-31.34	88.2	39.74	34.1	12.47	29.45	211	359	P	H
		5895	74.08	-16.12	90.2	57.19	34.08	12.24	29.43	211	359	A	H
		5930	46.94	-21.26	68.2	29.95	34.1	12.33	29.44	211	359	A	H
		5615.635	54.27	-13.93	68.2	38.92	32.86	11.86	29.37	101	275	P	V
		5686.14	53.79	-41.19	94.98	37.97	33.29	11.92	29.39	101	275	P	V
		5718	53.98	-56.26	110.24	37.99	33.44	11.94	29.39	101	275	P	V
		5721.245	53.44	-60.2	113.64	37.44	33.44	11.95	29.39	101	275	P	V
	*	5885	106.26	-	-	89.43	34.04	12.22	29.43	101	275	P	V
	*	5885	99.42	-	-	82.59	34.04	12.22	29.43	101	275	A	V
		5895	80.97	-29.23	110.2	64.08	34.08	12.24	29.43	101	275	P	V
		5968.25	56.29	-31.91	88.2	39.21	34.1	12.42	29.44	101	275	P	V
		5895	76.36	-13.84	90.2	59.47	34.08	12.24	29.43	101	275	A	V
		5926	46.73	-21.47	68.2	29.75	34.1	12.32	29.44	101	275	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 8+9	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 169 5845MHz		7792	54.44	-13.76	68.2	68.65	36.65	13.9	65.63	104	9	P	H	
		11690	47.05	-26.95	74	56.9	38.38	17.2	65.87	-	-	P	H	
		17535	49.71	-18.49	68.2	53.84	39.08	21.46	65.3	-	-	P	H	
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			7792	51.67	-16.53	68.2	65.88	36.65	13.9	65.63	100	162	P	V
			11690	47.33	-26.67	74	57.18	38.38	17.2	65.87	-	-	P	V
			17535	49.69	-18.51	68.2	53.82	39.08	21.46	65.3	-	-	P	V
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WiFi Ant. 8+9	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 173 5865MHz		7825	54.3	-13.9	68.2	68.4	36.8	13.91	65.65	101	30	P	H	
		11730	46.58	-27.42	74	56.4	38.4	17.23	65.89	-	-	P	H	
		17595	50.12	-18.08	68.2	53.98	39.29	21.48	65.26	-	-	p	H	
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			7825	51.44	-16.76	68.2	65.54	36.8	13.91	65.65	109	166	P	V
			11730	46.23	-27.77	74	56.05	38.4	17.23	65.89	-	-	P	V
			17595	50.19	-18.01	68.2	54.05	39.29	21.48	65.26	-	-	p	V
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WiFi Ant. 8+9	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 177 5885MHz		7847	53.02	-15.18	68.2	67.07	36.89	13.9	65.66	101	19	P	H	
		11770	46.38	-27.62	74	56.19	38.4	17.26	65.91	-	-	P	H	
		17655	48.6	-19.6	68.2	52.15	39.54	21.51	65.23	-	-	P	H	
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			7847	51.85	-16.35	68.2	65.9	36.89	13.9	65.66	100	164	P	V
			11770	45.47	-28.53	74	55.28	38.4	17.26	65.91	-	-	P	V
			17655	49.02	-19.18	68.2	52.57	39.54	21.51	65.23	-	-	P	V
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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.													



WIFI 802.11ax HE20_Partial 26 (Band Edge @ 3m)

WIFI Ant. 8+9	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 Partial 26/0 CH 169 5845MHz		5634.22	55.72	-12.48	68.2	40.28	32.94	11.88	29.38	266	0	P	H
		5682.305	55.74	-36.4	92.14	39.95	33.26	11.92	29.39	266	0	P	H
		5713.28	55.64	-53.28	108.92	39.66	33.43	11.94	29.39	266	0	P	H
		5724.49	56.79	-64.25	121.04	40.78	33.45	11.95	29.39	266	0	P	H
	*	5845	111.3	-	-	94.71	33.89	12.12	29.42	266	0	P	H
	*	5845	106.03	-	-	89.44	33.89	12.12	29.42	266	0	A	H
		5903.25	57.27	-46.87	104.14	40.34	34.1	12.26	29.43	266	0	P	H
		5934.5	58.09	-30.11	88.2	41.09	34.1	12.34	29.44	266	0	P	H
		5907	46.93	-34.46	81.39	29.99	34.1	12.27	29.43	266	0	A	H
		5950	46.96	-21.24	68.2	29.92	34.1	12.38	29.44	266	0	A	H
		5618.29	56.72	-11.48	68.2	41.36	32.87	11.86	29.37	100	278	P	V
		5667.85	55.83	-25.62	81.45	40.17	33.14	11.9	29.38	100	278	P	V
		5714.165	56.73	-52.44	109.17	40.75	33.43	11.94	29.39	100	278	P	V
		5723.015	55.36	-62.32	117.68	39.35	33.45	11.95	29.39	100	278	P	V
	*	5845	109.4	-	-	92.81	33.89	12.12	29.42	100	278	P	V
	*	5845	102.72	-	-	86.13	33.89	12.12	29.42	100	278	A	V
		5902.75	57.66	-46.85	104.51	40.73	34.1	12.26	29.43	100	278	P	V
		5983.25	58.13	-30.07	88.2	41.02	34.1	12.46	29.45	100	278	P	V
		5919.75	46.88	-25.16	72.04	29.91	34.1	12.3	29.43	100	278	A	V
		5960.25	46.94	-21.26	68.2	29.88	34.1	12.4	29.44	100	278	A	V



WIFI Ant. 8+9	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 Partial 26/8 CH 177 5885MHz		5630.975	54.26	-13.94	68.2	38.85	32.92	11.87	29.38	100	352	P	H
		5694.99	54.39	-47.12	101.51	38.49	33.36	11.93	29.39	100	352	P	H
		5718.59	53.79	-56.62	110.41	37.8	33.44	11.94	29.39	100	352	P	H
		5723.605	53.36	-65.66	119.02	37.35	33.45	11.95	29.39	100	352	P	H
	*	5885	112.42	-	-	95.59	34.04	12.22	29.43	100	352	P	H
	*	5885	105.91	-	-	89.08	34.04	12.22	29.43	100	352	A	H
		5895	87.85	-22.35	110.2	70.96	34.08	12.24	29.43	100	352	P	H
		5955.75	57.57	-30.63	88.2	40.52	34.1	12.39	29.44	100	352	P	H
		5895	76.3	-13.9	90.2	59.41	34.08	12.24	29.43	100	352	A	H
		5942.25	46.94	-21.26	68.2	29.92	34.1	12.36	29.44	100	352	A	H
		5612.39	55.98	-12.22	68.2	40.64	32.85	11.86	29.37	400	298	P	V
		5654.87	56.14	-15.68	71.82	40.59	33.04	11.89	29.38	400	298	P	V
		5704.725	55.84	-50.68	106.52	39.89	33.41	11.93	29.39	400	298	P	V
		5720.36	55.21	-56.41	111.62	39.21	33.44	11.95	29.39	400	298	P	V
	*	5885	107.51	-	-	90.68	34.04	12.22	29.43	400	298	P	V
	*	5885	101.11	-	-	84.28	34.04	12.22	29.43	400	298	A	V
		5895	83.74	-26.46	110.2	66.85	34.08	12.24	29.43	400	298	P	V
		5951	56.54	-31.66	88.2	39.5	34.1	12.38	29.44	400	298	P	V
		5895	72.26	-17.94	90.2	55.37	34.08	12.24	29.43	400	298	A	V
	5969.5	46.88	-21.32	68.2	29.79	34.1	12.43	29.44	400	298	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE20_Partial 52 (Band Edge @ 3m)

WIFI Ant. 8+9	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 Partial 52/37 CH 169 5845MHz		5632.45	56.31	-11.89	68.2	40.88	32.93	11.88	29.38	214	360	P	H
		5669.325	56.25	-26.29	82.54	40.57	33.15	11.91	29.38	214	360	P	H
		5716.23	57.31	-52.44	109.75	41.33	33.43	11.94	29.39	214	360	P	H
		5724.785	55.97	-65.74	121.71	39.96	33.45	11.95	29.39	214	360	P	H
	*	5845	115.37	-	-	98.78	33.89	12.12	29.42	214	360	P	H
	*	5845	108.21	-	-	91.62	33.89	12.12	29.42	214	360	A	H
		5908.75	58.19	-41.91	100.1	41.24	34.1	12.28	29.43	214	360	P	H
		5969.5	57.35	-30.85	88.2	40.26	34.1	12.43	29.44	214	360	P	H
		5897.75	47.17	-41.01	88.18	30.26	34.09	12.25	29.43	214	360	A	H
		5927.75	47.09	-21.11	68.2	30.11	34.1	12.32	29.44	214	360	A	H
		5638.645	56.86	-11.34	68.2	41.41	32.95	11.88	29.38	101	275	P	V
		5699.415	55.98	-48.79	104.77	40.04	33.4	11.93	29.39	101	275	P	V
		5718	55.56	-54.68	110.24	39.57	33.44	11.94	29.39	101	275	P	V
		5724.49	55.92	-65.12	121.04	39.91	33.45	11.95	29.39	101	275	P	V
	*	5845	108.99	-	-	92.4	33.89	12.12	29.42	101	275	P	V
	*	5845	103.5	-	-	86.91	33.89	12.12	29.42	101	275	A	V
		5907.5	58.04	-42.98	101.02	41.1	34.1	12.27	29.43	101	275	P	V
		5986.25	57.71	-30.49	88.2	40.59	34.1	12.47	29.45	101	275	P	V
	5918.25	46.9	-26.24	73.14	29.93	34.1	12.3	29.43	101	275	A	V	
	5937.25	46.96	-21.24	68.2	29.95	34.1	12.35	29.44	101	275	A	V	



WIFI Ant. 8+9	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 Partial 52/40 CH 177 5885MHz		5610.62	55.06	-13.14	68.2	39.73	32.84	11.86	29.37	100	353	P	H
		5669.915	55.34	-27.64	82.98	39.65	33.16	11.91	29.38	100	353	P	H
		5710.035	55.57	-52.44	108.01	39.6	33.42	11.94	29.39	100	353	P	H
		5720.36	55.02	-56.6	111.62	39.02	33.44	11.95	29.39	100	353	P	H
	*	5885	113.94	-	-	97.11	34.04	12.22	29.43	100	353	P	H
	*	5885	106.12	-	-	89.29	34.04	12.22	29.43	100	353	A	H
		5895	87.47	-22.73	110.2	70.58	34.08	12.24	29.43	100	353	P	H
		5969.5	56.25	-31.95	88.2	39.16	34.1	12.43	29.44	100	353	P	H
		5895	76.61	-13.59	90.2	59.72	34.08	12.24	29.43	100	353	A	H
		5930	47.12	-21.08	68.2	30.13	34.1	12.33	29.44	100	353	A	H
		5645.135	55.71	-12.49	68.2	40.22	32.98	11.89	29.38	400	298	P	V
		5684.075	55.99	-37.46	93.45	40.19	33.27	11.92	29.39	400	298	P	V
		5703.84	55.7	-50.58	106.28	39.75	33.41	11.93	29.39	400	298	P	V
		5721.54	55.21	-59.1	114.31	39.21	33.44	11.95	29.39	400	298	P	V
	*	5885	107.39	-	-	90.56	34.04	12.22	29.43	400	298	P	V
	*	5885	100.73	-	-	83.9	34.04	12.22	29.43	400	298	A	V
		5895	87.47	-22.73	110.2	70.58	34.08	12.24	29.43	400	298	P	V
		5961.25	56.87	-31.33	88.2	39.8	34.1	12.41	29.44	400	298	P	V
	5895	72.19	-18.01	90.2	55.3	34.08	12.24	29.43	400	298	A	V	
	5961.25	46.88	-21.32	68.2	29.81	34.1	12.41	29.44	400	298	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE20_Partial 106 (Band Edge @ 3m)

WIFI Ant. 8+9	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 Partial 106/53 CH 169 5845MHz		5623.6	56.31	-11.89	68.2	40.92	32.89	11.87	29.37	203	360	P	H
		5659.885	56.67	-18.87	75.54	41.07	33.08	11.9	29.38	203	360	P	H
		5712.69	56	-52.76	108.76	40.02	33.43	11.94	29.39	203	360	P	H
		5723.31	54.45	-63.9	118.35	38.44	33.45	11.95	29.39	203	360	P	H
	*	5845	115.33	-	-	98.74	33.89	12.12	29.42	203	360	P	H
	*	5845	108.43	-	-	91.84	33.89	12.12	29.42	203	360	A	H
		5895	65.19	-45.01	110.2	48.3	34.08	12.24	29.43	203	360	P	H
		5988.5	57.74	-30.46	88.2	40.62	34.1	12.47	29.45	203	360	P	H
		5896	47.26	-42.2	89.46	30.36	34.08	12.25	29.43	203	360	A	H
		5930	47.08	-21.12	68.2	30.09	34.1	12.33	29.44	203	360	A	H
		5633.63	55.81	-12.39	68.2	40.38	32.93	11.88	29.38	100	279	P	V
		5683.19	56.54	-36.26	92.8	40.74	33.27	11.92	29.39	100	279	P	V
		5716.525	58.43	-51.4	109.83	42.45	33.43	11.94	29.39	100	279	P	V
		5721.835	55.81	-59.17	114.98	39.81	33.44	11.95	29.39	100	279	P	V
	*	5845	110.5	-	-	93.91	33.89	12.12	29.42	100	279	P	V
	*	5845	103.71	-	-	87.12	33.89	12.12	29.42	100	279	A	V
		5898.75	59.84	-47.6	107.44	42.93	34.09	12.25	29.43	100	279	P	V
		5926.25	58.1	-30.1	88.2	41.12	34.1	12.32	29.44	100	279	P	V
	5924	46.92	-22.01	68.93	29.94	34.1	12.31	29.43	100	279	A	V	
	5953.25	46.94	-21.26	68.2	29.89	34.1	12.39	29.44	100	279	A	V	



WiFi Ant. 8+9	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 Partial 106/54 CH 177 5885MHz		5616.815	55.63	-12.57	68.2	40.27	32.87	11.86	29.37	200	0	P	H
		5658.41	56.01	-18.44	74.45	40.42	33.07	11.9	29.38	200	0	P	H
		5713.575	55.62	-53.38	109	39.64	33.43	11.94	29.39	200	0	P	H
		5720.655	55.6	-56.69	112.29	39.6	33.44	11.95	29.39	200	0	P	H
	*	5885	113.82	-	-	96.99	34.04	12.22	29.43	200	0	P	H
	*	5885	107.51	-	-	90.68	34.04	12.22	29.43	200	0	A	H
		5895	99.67	-10.53	110.2	82.78	34.08	12.24	29.43	200	0	P	H
		5929.75	61.47	-26.73	88.2	44.48	34.1	12.33	29.44	200	0	P	H
		5895	81.11	-9.09	90.2	64.22	34.08	12.24	29.43	200	0	A	H
		5928.75	47.28	-20.92	68.2	30.29	34.1	12.33	29.44	200	0	A	H
		5641.89	56.68	-11.52	68.2	41.21	32.97	11.88	29.38	115	269	P	V
		5671.095	56.41	-27.44	83.85	40.71	33.17	11.91	29.38	115	269	P	V
		5708.56	56.13	-51.47	107.6	40.16	33.42	11.94	29.39	115	269	P	V
		5720.065	55.44	-55.51	110.95	39.44	33.44	11.95	29.39	115	269	P	V
	*	5885	109.08	-	-	92.25	34.04	12.22	29.43	115	269	P	V
	*	5885	102.83	-	-	86	34.04	12.22	29.43	115	269	A	V
		5895	85.92	-24.28	110.2	69.03	34.08	12.24	29.43	115	269	P	V
		5928.25	57.36	-30.84	88.2	40.38	34.1	12.32	29.44	115	269	P	V
	5895	78.77	-11.43	90.2	61.88	34.08	12.24	29.43	115	269	A	V	
	5930.5	47	-21.2	68.2	30.01	34.1	12.33	29.44	115	269	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 8+9	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 167 5835MHz		5617.995	54.74	-13.46	68.2	39.38	32.87	11.86	29.37	266	359	P	H
		5698.825	54.48	-49.85	104.33	38.55	33.39	11.93	29.39	266	359	P	H
		5717.705	55.44	-54.72	110.16	39.45	33.44	11.94	29.39	266	359	P	H
		5720.655	54.78	-57.51	112.29	38.78	33.44	11.95	29.39	266	359	P	H
	*	5835	109.98	-	-	93.43	33.87	12.1	29.42	266	359	P	H
	*	5835	103.61	-	-	87.06	33.87	12.1	29.42	266	359	A	H
		5915.75	58.13	-36.84	94.97	41.17	34.1	12.29	29.43	266	359	P	H
		5979.5	57.07	-31.13	88.2	39.97	34.1	12.45	29.45	266	359	P	H
		5899.5	48.04	-38.85	86.89	31.12	34.1	12.25	29.43	266	359	A	H
		5929.75	47.57	-20.63	68.2	30.58	34.1	12.33	29.44	266	359	A	H
		5645.43	54.24	-13.96	68.2	38.75	32.98	11.89	29.38	100	271	P	V
		5666.375	54.41	-25.94	80.35	38.76	33.13	11.9	29.38	100	271	P	V
		5715.05	53.68	-55.74	109.42	37.7	33.43	11.94	29.39	100	271	P	V
		5720.95	54.35	-58.62	112.97	38.35	33.44	11.95	29.39	100	271	P	V
	*	5835	105.8	-	-	89.25	33.87	12.1	29.42	100	271	P	V
	*	5835	99.12	-	-	82.57	33.87	12.1	29.42	100	271	A	V
		5913.25	56.74	-40.06	96.8	39.78	34.1	12.29	29.43	100	271	P	V
		5942.75	56.95	-31.25	88.2	39.93	34.1	12.36	29.44	100	271	P	V
		5899.5	47.11	-39.78	86.89	30.19	34.1	12.25	29.43	100	271	A	V
		5937	47.05	-21.15	68.2	30.04	34.1	12.35	29.44	100	271	A	V



WIFI Ant. 8+9	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 175 5875MHz		5612.39	54.34	-13.86	68.2	39	32.85	11.86	29.37	263	358	P	H
		5698.825	54.61	-49.72	104.33	38.68	33.39	11.93	29.39	263	358	P	H
		5705.02	54.98	-51.63	106.61	39.03	33.41	11.93	29.39	263	358	P	H
		5723.31	53.95	-64.4	118.35	37.94	33.45	11.95	29.39	263	358	P	H
	*	5875	110.8	-	-	94.04	34	12.19	29.43	263	358	P	H
	*	5875	103.53	-	-	86.77	34	12.19	29.43	263	358	A	H
		5895	76.54	-33.66	110.2	59.65	34.08	12.24	29.43	263	358	P	H
		5927.25	56.61	-31.59	88.2	39.63	34.1	12.32	29.44	263	358	P	H
		5895	68.08	-22.12	90.2	51.19	34.08	12.24	29.43	263	358	A	H
		5925	48.35	-19.85	68.2	31.37	34.1	12.32	29.44	263	358	A	H
		5637.465	53.51	-14.69	68.2	38.06	32.95	11.88	29.38	101	268	P	V
		5694.99	54.25	-47.26	101.51	38.35	33.36	11.93	29.39	101	268	P	V
		5702.66	53.56	-52.39	105.95	37.61	33.41	11.93	29.39	101	268	P	V
		5722.425	54.89	-61.44	116.33	38.89	33.44	11.95	29.39	101	268	P	V
	*	5875	108.83	-	-	92.07	34	12.19	29.43	101	268	P	V
	*	5875	100.05	-	-	83.29	34	12.19	29.43	101	268	A	V
		5895.25	69.55	-40.47	110.02	52.66	34.08	12.24	29.43	101	268	P	V
		5981.25	56.33	-31.87	88.2	39.23	34.1	12.45	29.45	101	268	P	V
		5895	63	-27.2	90.2	46.11	34.08	12.24	29.43	101	268	A	V
		5925.5	47.21	-20.99	68.2	30.23	34.1	12.32	29.44	101	268	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 8+9	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 167 5835MHz		7781	53.84	-14.36	68.2	68.11	36.59	13.89	65.62	100	28	P	H	
		11670	46.29	-27.71	74	56.17	38.35	17.19	65.86	-	-	P	H	
		17505	47.82	-20.38	68.2	52.23	38.84	21.44	65.32	-	-	P	H	
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			7781	51.37	-16.83	68.2	65.64	36.59	13.89	65.62	100	163	P	V
			11670	46.3	-27.7	74	56.18	38.35	17.19	65.86	-	-	P	V
			17505	47.87	-20.33	68.2	52.28	38.84	21.44	65.32	-	-	P	V
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WiFi Ant. 8+9	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 175 5875MHz		11750	45.84	-28.16	74	55.65	38.4	17.25	65.9	-	-	P	H	
		17625	48.71	-19.49	68.2	52.42	39.4	21.5	65.24	-	-	P	H	
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			11750	45.99	-28.01	74	55.8	38.4	17.25	65.9	-	-	P	V
			17625	48.85	-19.35	68.2	52.56	39.4	21.5	65.24	-	-	P	V
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Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 8+9	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 171 5855MHz		5634.515	54.64	-13.56	68.2	39.2	32.94	11.88	29.38	263	360	P	H
		5689.09	55.29	-41.86	97.15	39.45	33.31	11.92	29.39	263	360	P	H
		5719.77	55.31	-55.43	110.74	39.31	33.44	11.95	29.39	263	360	P	H
		5724.785	54.27	-67.44	121.71	38.26	33.45	11.95	29.39	263	360	P	H
	*	5855	108.7	-	-	92.06	33.92	12.14	29.42	263	360	P	H
	*	5855	101.58	-	-	84.94	33.92	12.14	29.42	263	360	A	H
		5895	76.59	-33.61	110.2	59.7	34.08	12.24	29.43	263	360	P	H
		5930.75	63.09	-25.11	88.2	46.1	34.1	12.33	29.44	263	360	P	H
		5895	65.97	-24.23	90.2	49.08	34.08	12.24	29.43	263	360	A	H
		5928.75	52.92	-15.28	68.2	35.93	34.1	12.33	29.44	263	360	A	H
		5602.065	54.58	-13.62	68.2	39.29	32.81	11.85	29.37	108	272	P	V
		5686.73	56.61	-38.8	95.41	40.79	33.29	11.92	29.39	108	272	P	V
		5702.07	53.66	-52.12	105.78	37.72	33.4	11.93	29.39	108	272	P	V
		5721.54	53.69	-60.62	114.31	37.69	33.44	11.95	29.39	108	272	P	V
	*	5855	104.01	-	-	87.37	33.92	12.14	29.42	108	272	P	V
	*	5855	97.17	-	-	80.53	33.92	12.14	29.42	108	272	A	V
		5895	73.41	-36.79	110.2	56.52	34.08	12.24	29.43	108	272	P	V
		5929	59.33	-28.87	88.2	42.34	34.1	12.33	29.44	108	272	P	V
		5895	60.94	-29.26	90.2	44.05	34.08	12.24	29.43	108	272	A	V
		5928.25	50.62	-17.58	68.2	33.64	34.1	12.32	29.44	108	272	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 8+9	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 171 5855MHz		7803	53.33	-14.87	68.2	67.48	36.71	13.91	65.63	100	29	P	H	
		11710	46.33	-27.67	74	56.16	38.4	17.21	65.88	-	-	P	H	
		17565	48.13	-20.07	68.2	52.08	39.23	21.47	65.28	-	-	P	H	
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			7803	51.64	-16.56	68.2	65.79	36.71	13.91	65.63	100	164	P	V
			11710	46.52	-27.48	74	56.35	38.4	17.21	65.88	-	-	P	V
			17565	48.02	-20.18	68.2	51.97	39.23	21.47	65.28	-	-	P	V
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Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



WIFI 802.11ax HE160_Full (Band Edge @ 3m)

WIFI Ant. 8+9	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 HE160 Full CH 163 5815MHz		5646.315	61.65	-6.55	68.2	46.15	32.99	11.89	29.38	266	357	P	H
		5680.24	68.74	-21.88	90.62	52.98	33.24	11.91	29.39	266	357	P	H
		5716.82	69.12	-40.79	109.91	53.14	33.43	11.94	29.39	266	357	P	H
		5720.655	66.87	-45.42	112.29	50.87	33.44	11.95	29.39	266	357	P	H
	*	5815	105.83	-	-	89.36	33.83	12.05	29.41	266	357	P	H
	*	5815	98.35	-	-	81.88	33.83	12.05	29.41	266	357	A	H
		5897.25	77.17	-31.38	108.55	60.26	34.09	12.25	29.43	266	357	P	H
		5970	66.58	-21.62	88.2	49.49	34.1	12.43	29.44	266	357	P	H
		5895	63.49	-26.71	90.2	46.6	34.08	12.24	29.43	266	357	A	H
		5930	58.57	-9.63	68.2	41.58	34.1	12.33	29.44	266	357	A	H
		5610.325	54.72	-13.48	68.2	39.39	32.84	11.86	29.37	100	270	P	V
		5690.565	59.59	-38.65	98.24	43.74	33.32	11.92	29.39	100	270	P	V
		5704.725	60.82	-45.7	106.52	44.87	33.41	11.93	29.39	100	270	P	V
		5723.9	60.6	-59.09	119.69	44.59	33.45	11.95	29.39	100	270	P	V
	*	5815	101.55	-	-	85.08	33.83	12.05	29.41	100	270	P	V
	*	5815	93.04	-	-	76.57	33.83	12.05	29.41	100	270	A	V
		5896.75	69.71	-39.2	108.91	52.8	34.09	12.25	29.43	100	270	P	V
		5928	63.87	-24.33	88.2	46.89	34.1	12.32	29.44	100	270	P	V
		5897.5	59.5	-28.86	88.36	42.59	34.09	12.25	29.43	100	270	A	V
		5929	55.56	-12.64	68.2	38.57	34.1	12.33	29.44	100	270	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE160_Full (Harmonic @ 3m)

WIFI Ant. 8+9	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 163 5815MHz		7753	53.9	-14.3	68.2	68.34	36.42	13.86	65.61	100	28	P	H	
		11630	45.9	-28.1	74	55.81	38.34	17.15	65.84	-	-	P	H	
		17445	48.39	-19.81	68.2	52.94	38.79	21.41	65.38	-	-	P	H	
													H	
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													H	
													H	
			7753	49.64	-18.56	68.2	64.08	36.42	13.86	65.61	101	165	P	V
			11630	46.34	-27.66	74	56.25	38.34	17.15	65.84	-	-	P	V
			17445	47.94	-20.26	68.2	52.49	38.79	21.41	65.38	-	-	P	V
														V
														V
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													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



Emission above 18GHz

WIFI 802.11ax HE160_Full (SHF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
8+9		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
WIFI 802.11ax HE160 SHF		39230	47.23	-26.77	74	53.48	45	9.11	50.82	-	-	P	H
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													H
													H
													H
													H
			39208	46.58	-27.42	74	52.85	45	9.1	50.83	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
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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
WIFI 802. HE160_Full (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
8+9		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
WIFI 802.11ax HE160 LF		32.7	22.53	-17.47	40	30.95	23.25	0.74	32.45	-	-	P	H	
		140.16	33.01	-10.49	43.5	46.2	17.54	1.64	32.42	-	-	P	H	
		283.8	25.89	-20.11	46	36.83	18.95	2.42	32.41	-	-	P	H	
		496	26	-20	46	31.58	23.86	3.13	32.69	-	-	P	H	
		640.9	28.53	-17.47	46	30.89	26.38	3.72	32.64	-	-	P	H	
		939.8	33.87	-12.13	46	30.27	30.39	4.52	31.6	-	-	P	H	
														H
														H
														H
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														H
			58.08	32.56	-7.44	40	51.88	11.98	1.06	32.42	-	-	P	V
			183.63	30.45	-13.05	43.5	45.87	14.98	1.86	32.35	-	-	P	V
			261.12	26	-20	46	36.05	20.01	2.3	32.42	-	-	P	V
			558.3	26.77	-19.23	46	29.84	25.99	3.38	32.57	-	-	P	V
			739.6	30.05	-15.95	46	30.36	27.99	4.07	32.56	-	-	P	V
			949.6	34.24	-11.76	46	30.15	30.75	4.55	31.52	-	-	P	V
														V
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Remark

- No other spurious found.
- All results are PASS against limit line.
- The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.



Note symbol

*	Fundamental Frequency which can ax 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 Av
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.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5650	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 169		5650	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
5845MHz													

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 @ 5650MHz:

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 @ 5650MHz:

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 :	Bill Chang, Gary Guo and Steven Wu	Temperature :	20.1~20.8°C
		Relative Humidity :	50.1~67.6%



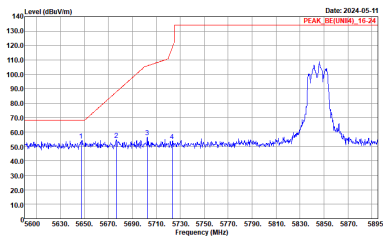
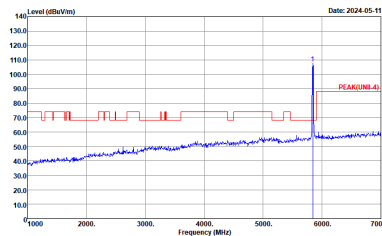
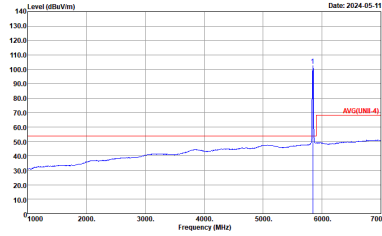
UNII 4 - 5600~5950MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNII4)_16-24_3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

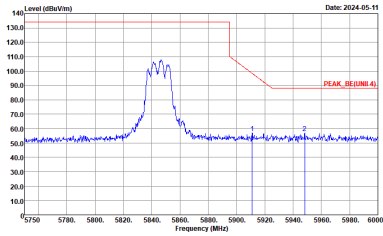
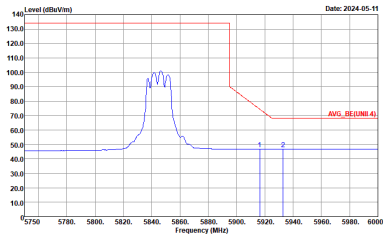


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz	
8+9	Vertical	Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 5845 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 5600 to 5950 MHz. A red line indicates the peak level at approximately 125 dBm/100kHz. The plot is dated 2024-05-11.</p> <p>Site : 03CH16-HY Condition : PEAK_SE(UNII4)_16-24_3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 5845 MHz. The y-axis ranges from 0 to 140 dBm/100kHz, and the x-axis ranges from 1000 to 7000 MHz. A red line indicates the peak level at approximately 110 dBm/100kHz. The plot is dated 2024-05-11.</p> <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 0 to 140 dBm/100kHz, and the x-axis ranges from 1000 to 7000 MHz. A red line indicates the average level at approximately 55 dBm/100kHz. The plot is dated 2024-05-11.</p> <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank

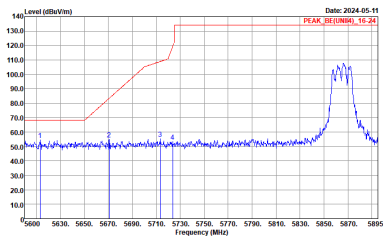
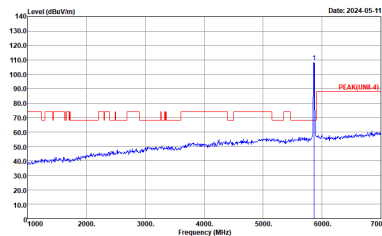
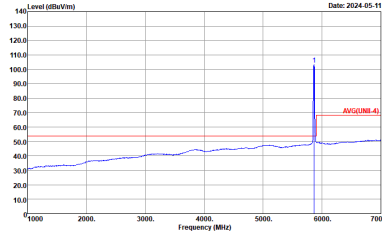


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_SE(UNII-4)_16-24_3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz	
8+9	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

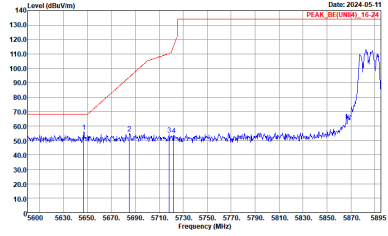
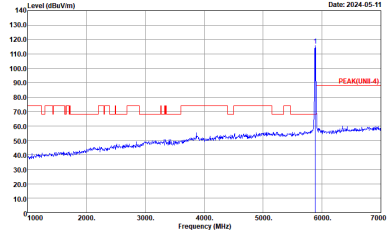
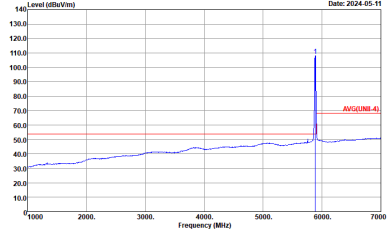


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : :PEAK_SE(UNII4)_16-24_3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : :PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : :AVG(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz	
8+9	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank

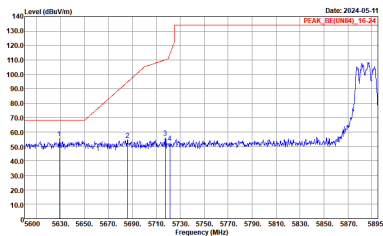
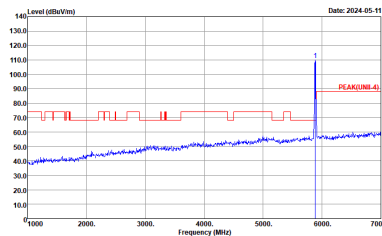
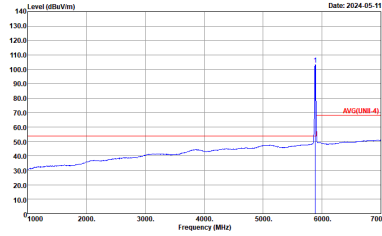


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : :PEAK_SE(UNII-4)_16-24_3m 91200_1522_240328 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : :PEAK(UNII-4) 3m 91200_1522_240328 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : :AVG(UNII-4) 3m 91200_1522_240328 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>

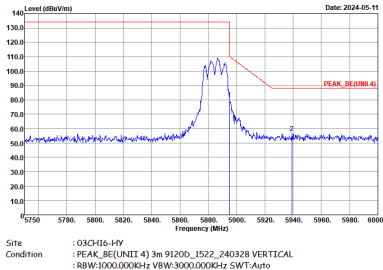
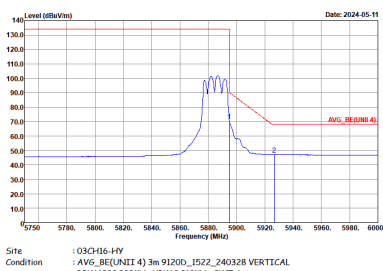


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz	
8+9	Horizontal	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg</p>		<p>Left blank</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : :PEAK_SE(UNII4)_16-24_3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : :PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : :AVG(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWF:Auto</p>	Left blank



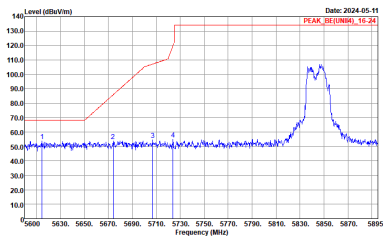
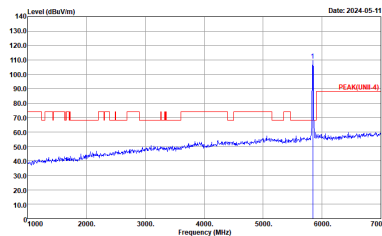
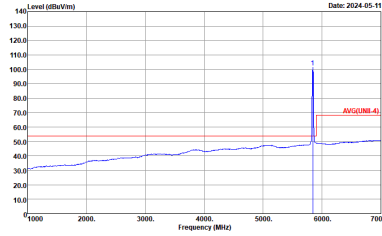
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT4)_16-24 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG(UNIT-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz	
8+9	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

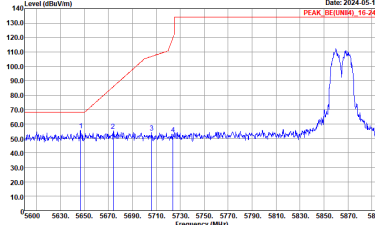
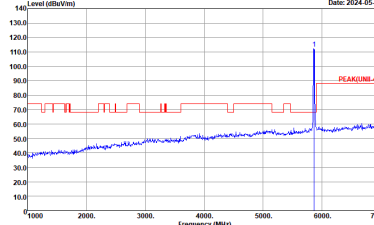
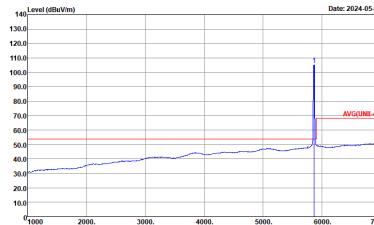


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_SE (UNII-4)_16-24 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK (UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG (UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>

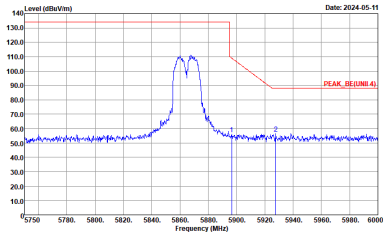
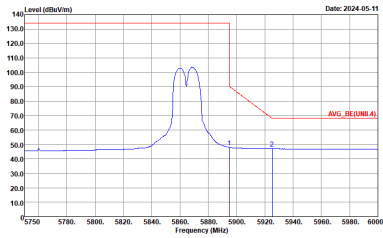


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz	
8+9	Vertical	Fundamental
Peak		Left blank
Avg		Left blank



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Level (dBm/Vm) vs Frequency (MHz) plot showing a peak at 5865 MHz. The y-axis ranges from 10.0 to 140.0 dBm/Vm, and the x-axis ranges from 5600 to 5865 MHz. A red line indicates the peak level at approximately 135 dBm/Vm. Text: PEAK_8E (UNII-4)_16_24</p> <p>Site : 03CH16-HY Condition : PEAK_8E(UNII-4)_16-24 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/Vm) vs Frequency (MHz) plot showing a peak at 5865 MHz. The y-axis ranges from 10.0 to 140.0 dBm/Vm, and the x-axis ranges from 1000 to 7000 MHz. A red line indicates the peak level at approximately 135 dBm/Vm. Text: PEAK(UNII-4)</p> <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Level (dBm/Vm) vs Frequency (MHz) plot showing a peak at 5865 MHz. The y-axis ranges from 10.0 to 140.0 dBm/Vm, and the x-axis ranges from 1000 to 7000 MHz. A red line indicates the peak level at approximately 135 dBm/Vm. Text: AVG(UNII-4)</p> <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>

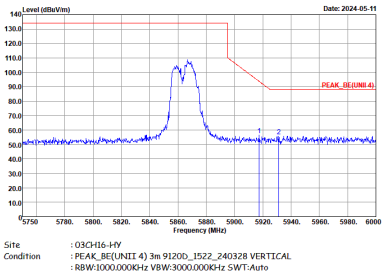
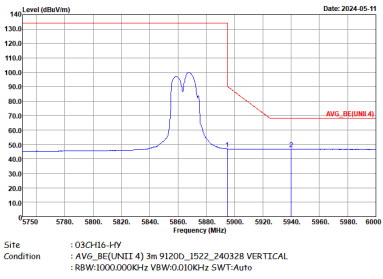


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz	
8+9	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_SE (UNII-4)_16-24 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK (UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG (UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL RBW:1000.000kHz VBW:0.010kHz SWF:Auto</p>	Left blank

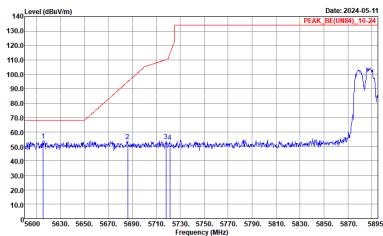
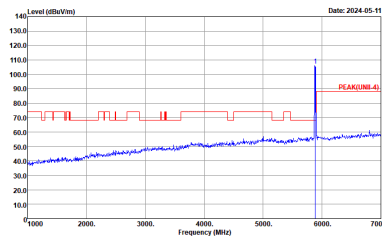
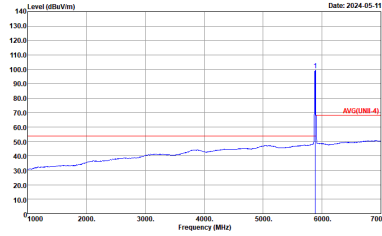


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_8E (UNII-4)_16-24 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK (UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG (UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank



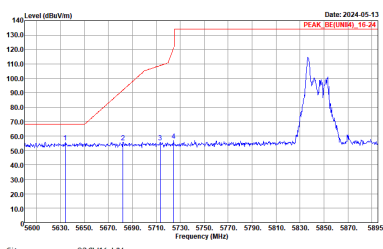
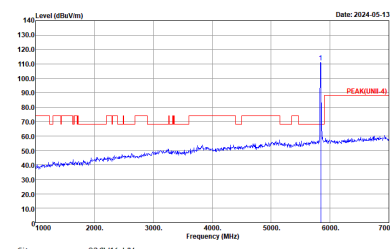
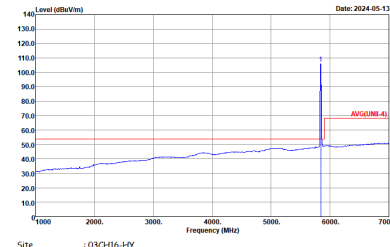
WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : :PEAK_SE(UNII-A)_16-24_3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : :PEAK(UNII-4)_3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : :AVG(UNII-4)_3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



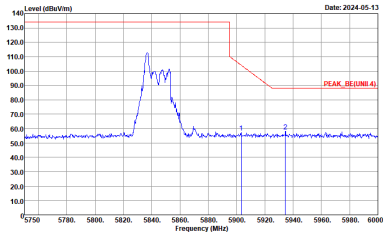
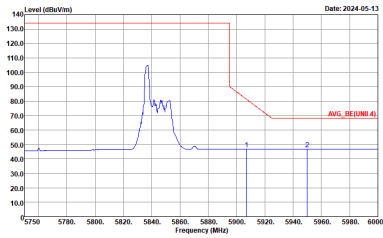
WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz	
8+9	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	Left blank



WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH169 5845MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT4)_16-24 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNIT-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG(UNIT-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH169 5845MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	Left blank

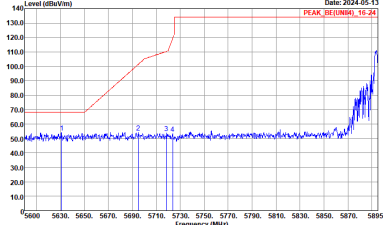
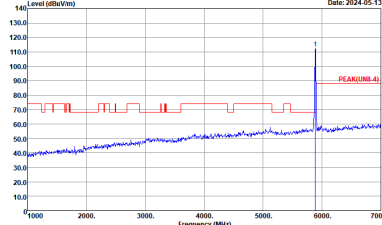
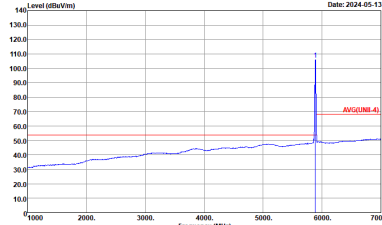


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH169 5845MHz	
8+9	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : :PEAK_SE(UNII4)_16-24_3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : :PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : :AVG(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH169 5845MHz	
8+9	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

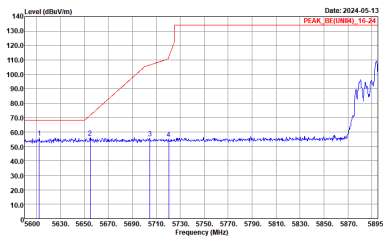
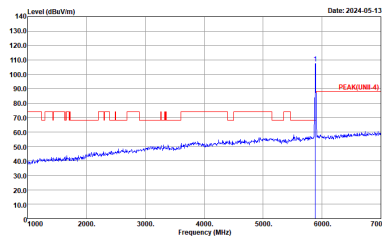
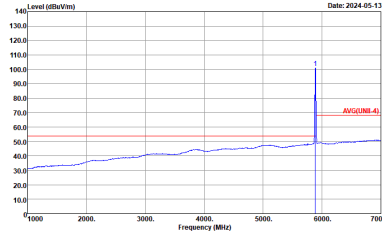


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH177 5885MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_SE(UNII4)_16-24_3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH177 5885MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH177 5885MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE (UNII-4)_16-24 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK (UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG (UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH177 5885MHz	
8+9	Vertical	Fundamental
Peak		Left blank
Avg		Left blank



WIFI 802.11ax HE20 Partial 52 (Band Edge @ 3m)

WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/37 CH169 5845MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE (UNII-4)_16-24 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK (UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG (UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/37 CH169 5845MHz	
8+9	Horizontal	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg</p>		<p>Left blank</p>

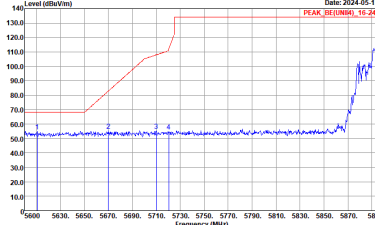
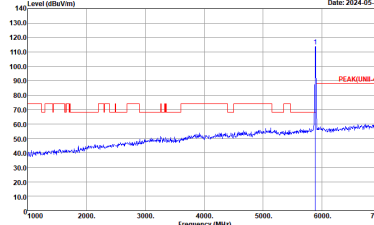
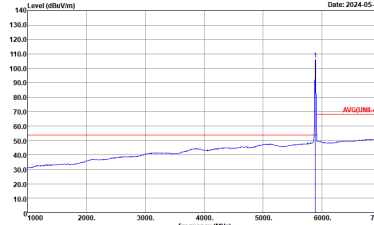


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/37 CH169 5845MHz	
8+9	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : :PEAK_SE(UNII4)_16-24_3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : :PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : :AVG(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>

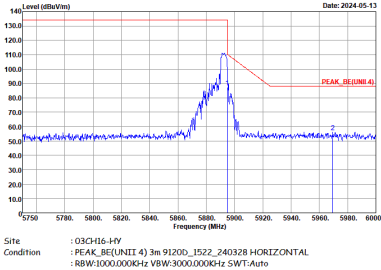
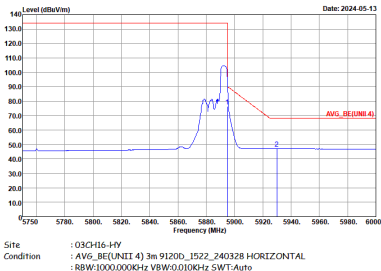


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/37 CH169 5845MHz	
8+9	Vertical	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg</p>		<p>Left blank</p>

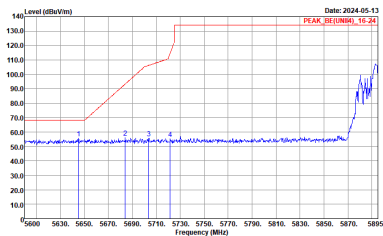
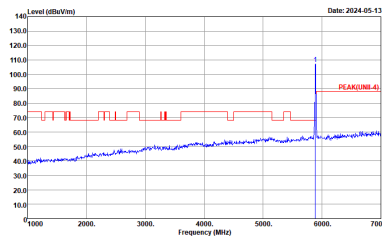
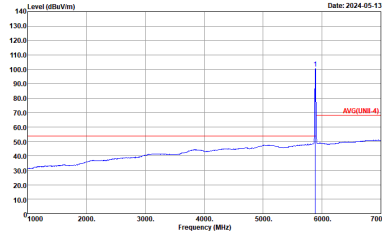


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/40 CH177 5885MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_SE(UNII-4)_16-24_3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>

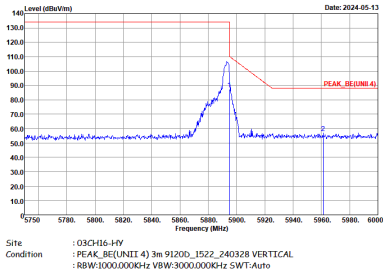
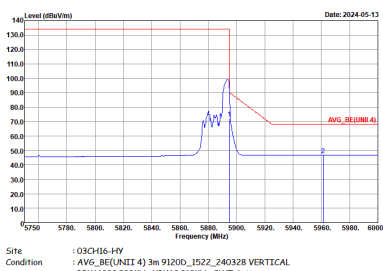


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/40 CH177 5885MHz	
8+9	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/40 CH177 5885MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : :PEAK_SE(UNII4)_16-24_3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : :PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : :AVG(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



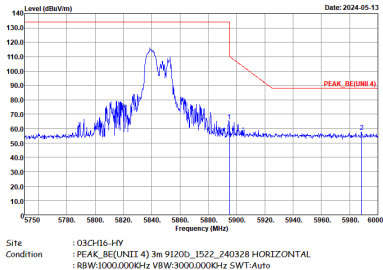
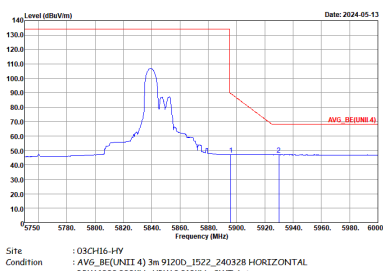
WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 52/40 CH177 5885MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWF:Auto</p>	Left blank



UNII 4 5600~5950MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH169 5845MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT4)_16-24 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG(UNIT-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

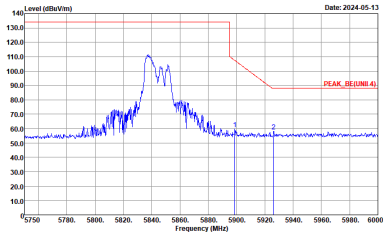
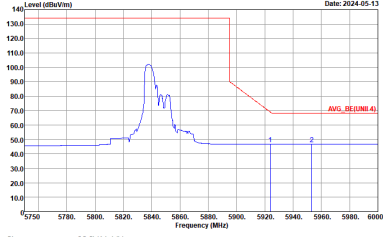


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH169 5845MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	Left blank

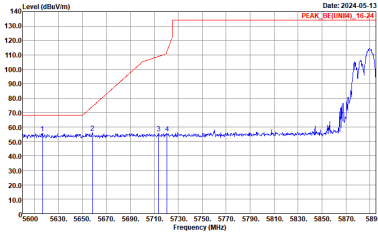
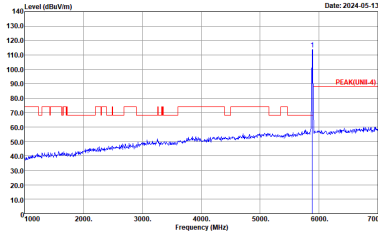
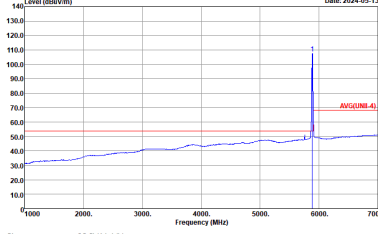


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH169 5845MHz	
8+9	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : :PEAK_SE(UNII4)_16-24 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : :PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : :AVG(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH169 5845MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank

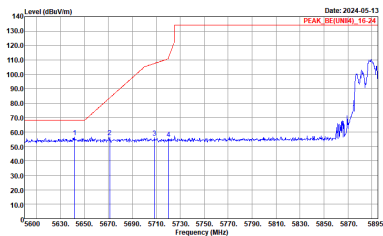
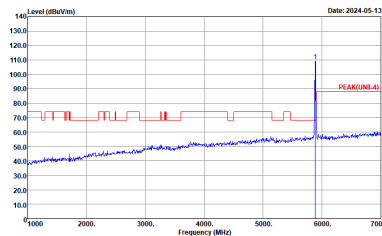
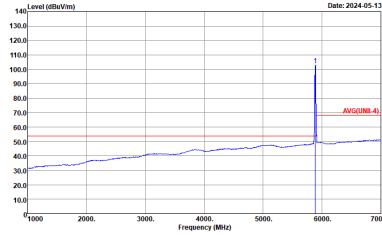


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH177 5885MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_SE(UNII-4)_16-24_3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4)_3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4)_3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH177 5885MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH177 5885MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : :PEAK_SE(UNII4)_16-24_3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : :PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : :AVG(UNII-4) 3m 91200_1522_240328 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH177 5885MHz	
8+9	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	Left blank



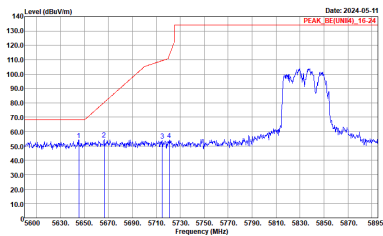
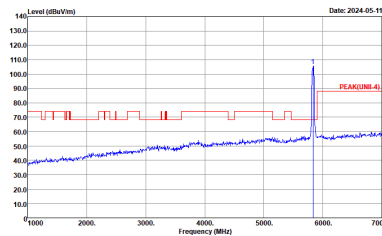
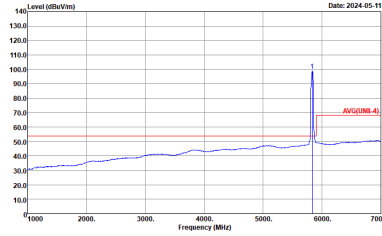
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT4)_16-24 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG(UNIT-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

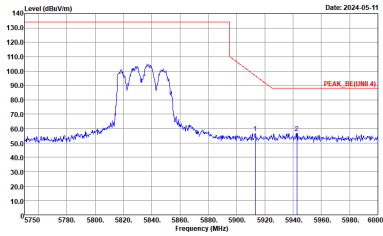
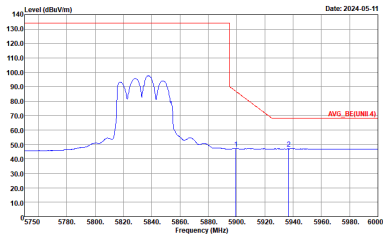


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	Left blank

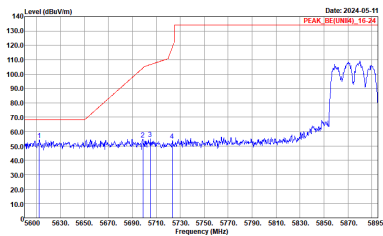
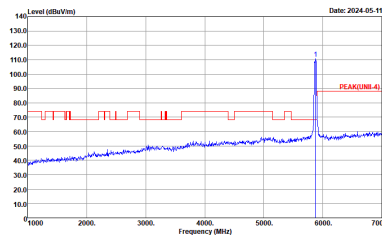
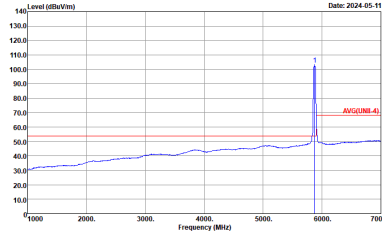


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_05(UNII4)_16-24 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_05(UNII4)_16-24 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz	
8+9	Horizontal	Fundamental
Peak	<p>Level (dBm/100MHz) vs Frequency (MHz)</p> <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	<p>Level (dBm/100MHz) vs Frequency (MHz)</p> <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz	
8+9	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_8E (UNII4)_16-24 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK (UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG (UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz	
8+9	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank



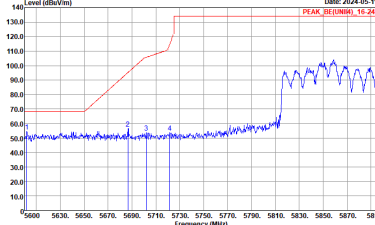
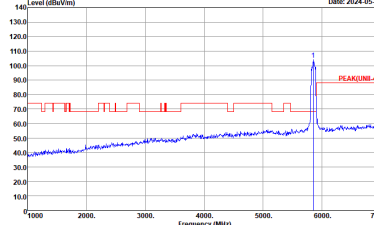
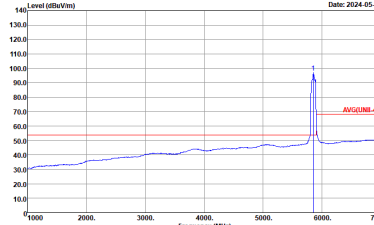
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNII4)_16-24 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz	
8+9	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWF:Auto</p>	Left blank



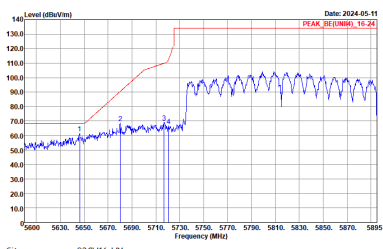
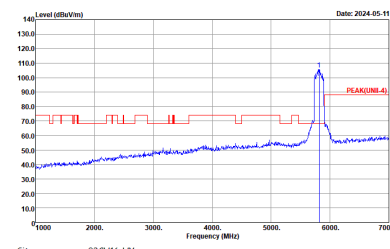
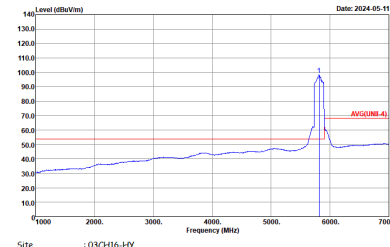
WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_SE(UNII4)_16-24 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz	
8+9	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto</p>	Left blank
Avg	<p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWF:Auto</p>	Left blank



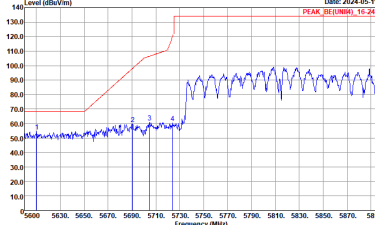
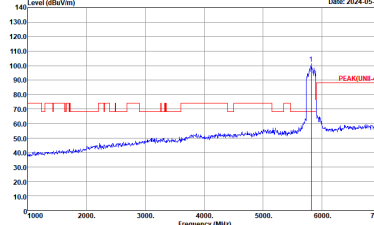
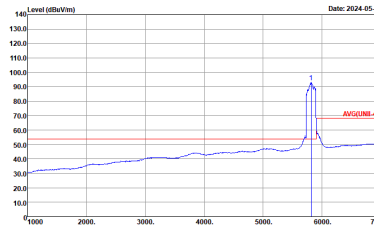
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH163 5815MHz	
8+9	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNII4)_16-24 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

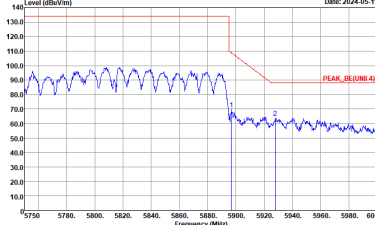
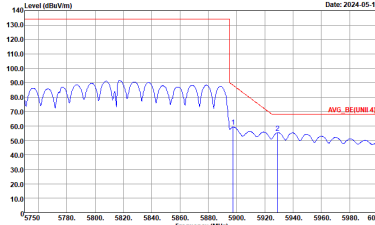


WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH163 5815MHz	
8+9	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank



WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH163 5815MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_SE(UNII4)_16-24 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH16-HY Condition : AVG(UNII-4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



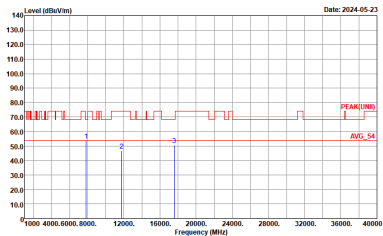
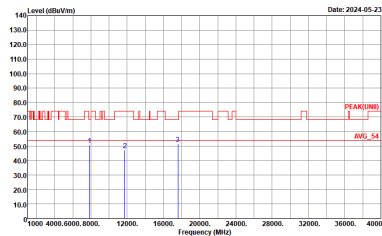
WIFI	UNII 4 5600~5950MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH163 5815MHz	
8+9	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto</p>	Left blank
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE(UNIT 4) 3m 91200_1522_240328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWF:Auto</p>	Left blank



UNII 4 - 5600~5950MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	UNII 4 5600~5950MHz Harmonic @ 3m	
ANT	802.11a CH169 5845MHz	
8+9	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_240328 VERTICAL</p>



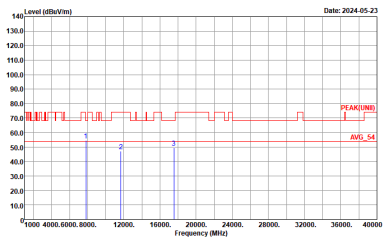
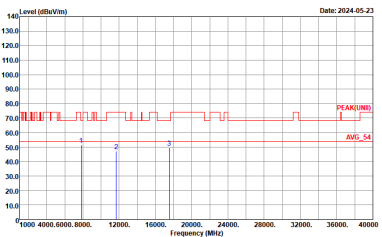
WIFI	UNII 4 5600~5950MHz Harmonic @ 3m	
ANT	802.11a CH173 5865MHz	
8+9	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH16-HY Condition : PEAK[UNII] 3m 91200_1522_240328 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : PEAK[UNII] 3m 91200_1522_240328 VERTICAL</p>



WIFI	UNII 4 5600~5950MHz Harmonic @ 3m	
ANT	802.11a CH177 5885MHz	
8+9	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK[UNII] 3m 91200_1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK[UNII] 3m 91200_1522_240328 VERTICAL</p>



WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	UNII 4 5600~5950MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz	
8+9	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_240328 HORIZONTAL :</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_240328 VERTICAL :</p>



WIFI	UNII 4 5600~5950MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz	
8+9	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK[UNII] 3m 91200_1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK[UNII] 3m 91200_1522_240328 VERTICAL</p>



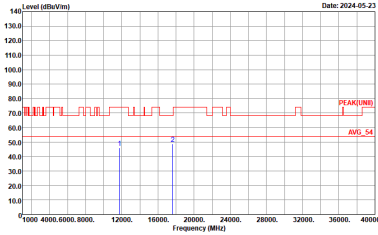
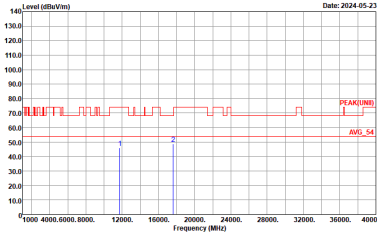
WIFI	UNII 4 5600~5950MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz	
8+9	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK[UNII] 3m 91200_1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK[UNII] 3m 91200_1522_240328 VERTICAL</p>



WIFI 802.11ax HE40 Full (Harmonic @ 3m)

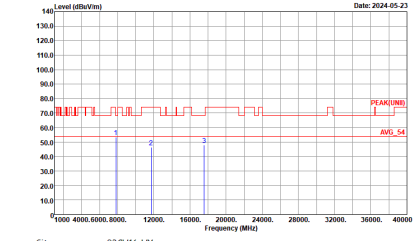
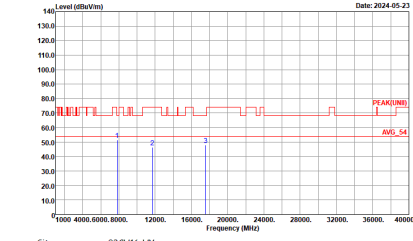
WIFI	UNII 4 5600~5950MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz	
8+9	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_240328 HORIZONTAL :</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_240328 VERTICAL :</p>



\WIFI	UNII 4 5600~5950MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz	
8+9	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH16-HY Condition : PEAK[UNII] 3m 91200_1522_240328 HORIZONTAL -</p>	 <p>Site : 03CH16-HY Condition : PEAK[UNII] 3m 91200_1522_240328 VERTICAL -</p>



WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	UNII 4 5600~5950MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz	
8+9	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_240328 HORIZONTAL :</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_240328 VERTICAL :</p>



WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	UNII 4 5600~5950MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH163 5815MHz	
8+9	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_240328 HORIZONTAL :</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522_240328 VERTICAL :</p>



Emission above 18GHz
5GHz WIFI 802.11ax HE160 Full (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ax HE160 Full SHF	
8+9	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 1m SHF_993_231124 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 1m SHF_993_231124 VERTICAL</p>



Emission below 1GHz
5GHz WIFI 802.11ax HE160 Full (LF)

Table with 2 columns: Horizontal and Vertical. Each column contains a graph of Level (dBuV/m) vs Frequency (MHz) from 50 to 1000 MHz. The graphs show a blue signal line and a red QP limit line. The left graph is labeled 'Horizontal' and the right 'Vertical'. Both graphs include site and condition information.

QP / Peak

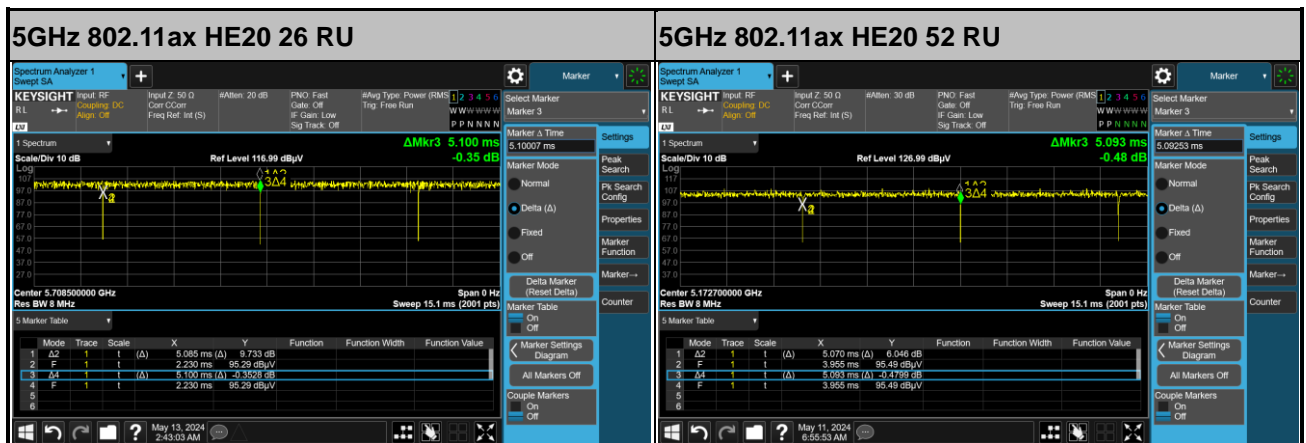
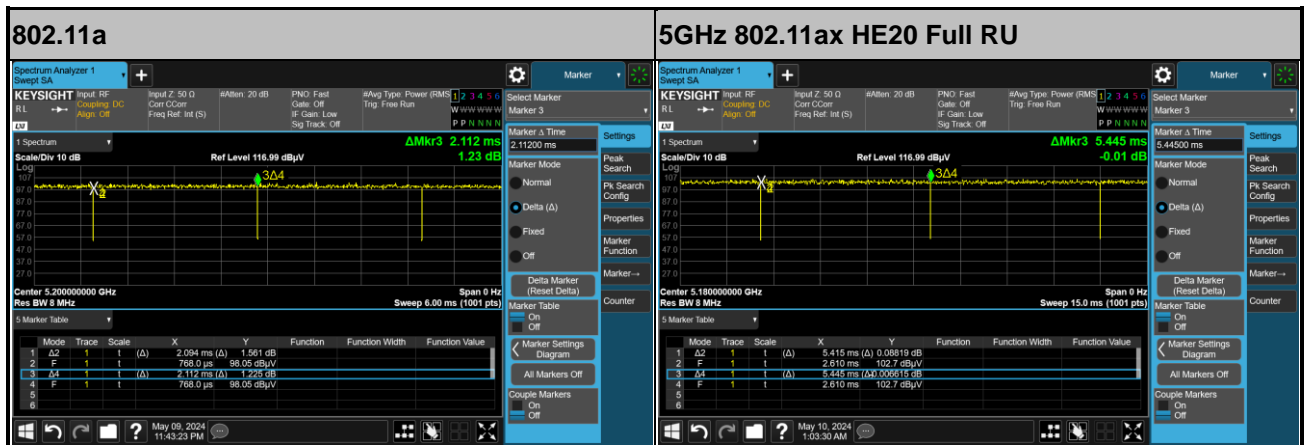


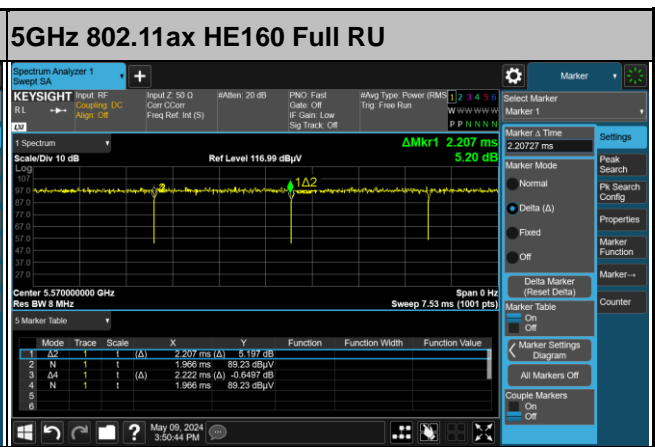
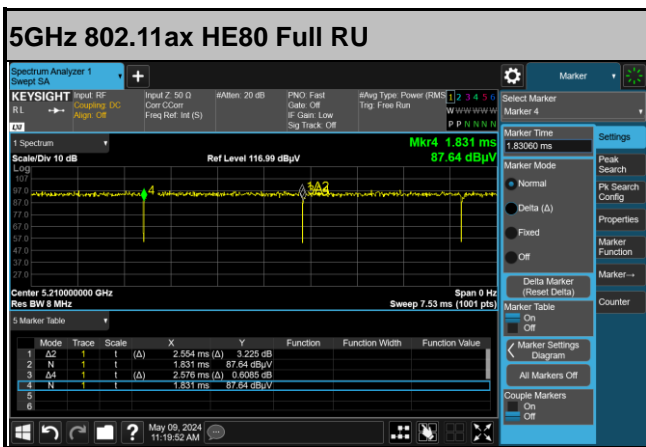
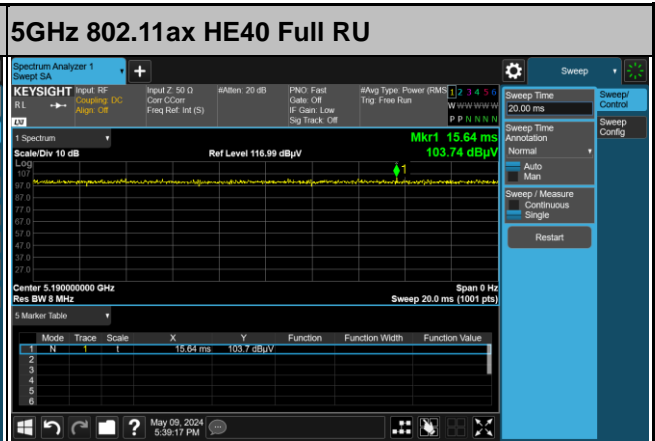
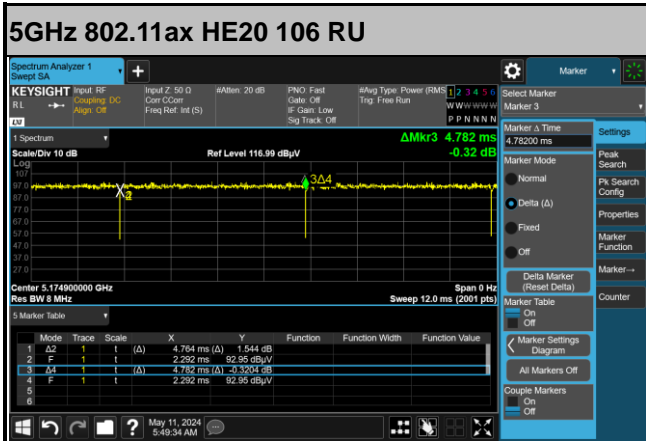
Appendix E. Duty Cycle Plots

<For Radiated Spurious Emission test>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
8+9	802.11a	99.15	-	-	10Hz
8+9	5GHz 802.11ax HE20 Full RU	99.45	-	-	10Hz
8+9	5GHz 802.11ax HE20 26 RU	99.71	-	-	10Hz
8+9	5GHz 802.11ax HE20 52 RU	99.55	-	-	10Hz
8+9	5GHz 802.11ax HE20 106 RU	99.62	-	-	10Hz
8+9	5GHz 802.11ax HE40 Full RU	100.00	-	-	10Hz
8+9	5GHz 802.11ax HE80 Full RU	99.15	-	-	10Hz
8+9	5GHz 802.11ax HE160 Full RU	99.32	-	-	10Hz

MIMO <Ant. 8+9>







<For Conducted test>

Antenna	Band	Duty Cycle(%)	T(us)	Duty Factor(dB)
8+9	802.11a for Ant 8	99.24	-	0.03
8+9	802.11a for Ant 9	99.25	-	0.03
8+9	6GHz 802.11ac VHT20 for Ant 8	100.00	-	0.00
8+9	6GHz 802.11ac VHT20 for Ant 9	100.00	-	0.00
8+9	6GHz 802.11ac VHT40 for Ant 8	100.00	-	0.00
8+9	6GHz 802.11ac VHT40 for Ant 9	100.00	-	0.00
8+9	6GHz 802.11ac VHT80 for Ant 8	100.00	-	0.00
8+9	6GHz 802.11ac VHT80 for Ant 9	100.00	-	0.00
8+9	6GHz 802.11ac VHT160 for Ant 8	99.28	-	0.03
8+9	6GHz 802.11ac VHT160 for Ant 9	99.28	-	0.03
8+9	6GHz 802.11ax HE20 Full RU for Ant 8	100.00	-	0.00
8+9	6GHz 802.11ax HE20 Full RU for Ant 9	100.00	-	0.00
8+9	6GHz 802.11ax HE20 26 RU for Ant 8	100.00	-	0.00
8+9	6GHz 802.11ax HE20 26 RU for Ant 9	100.00	-	0.00
8+9	6GHz 802.11ax HE20 52 RU for Ant 8	100.00	-	0.00
8+9	6GHz 802.11ax HE20 52 RU for Ant 9	100.00	-	0.00
8+9	6GHz 802.11ax HE20 106 RU for Ant 8	100.00	-	0.00
8+9	6GHz 802.11ax HE20 106 RU for Ant 9	100.00	-	0.00
8+9	6GHz 802.11ax HE40 Full RU for Ant 8	100.00	-	0.00
8+9	6GHz 802.11ax HE40 Full RU for Ant 9	100.00	-	0.00
8+9	6GHz 802.11ax HE80 Full RU for Ant 8	100.00	-	0.00
8+9	6GHz 802.11ax HE80 Full RU for Ant 9	100.00	-	0.00
8+9	6GHz 802.11ax HE160 Full RU for Ant 8	99.28	-	0.03
8+9	6GHz 802.11ax HE160 Full RU for Ant 9	99.28	-	0.03



MIMO <Ant. 8>

MIMO <Ant. 9>

