FCC RADIO TEST REPORT

FCC ID	:	**A4RGR83Y**
Equipment	:	**Phone**
Model Name	:	**GR83Y**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Dec. 20, 2023 and testing was performed from Jan. 08, 2024 to Apr. 30, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

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

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History of this test report

Report No.	Version	Description	Issue Date
FR3N2325K	01	Initial issue of report	Apr. 08, 2024
FR3N2325K	02	Revise Section 1.4, 2.2, Appendix A, C and D. This report is an updated version, replacing the report issued on Apr. 08, 2024.	May 07, 2024
FR3N2325K	03	Revise Appendix A This report is an updated version, replacing the report issued on May 07, 2024.	May 24, 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	2.31 dB under the limit at 5621.24 MHz
3.5	15.207	AC Conducted Emission	Pass	15.01 dB under the limit at 0.15 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:

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

Reviewed by: William Chen

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Thread, Wi-Fi 802.11be, UWB, NFC, WPT, NTN and GNSS. **Antenna Type** WLAN: **<Ant. 3>:** IFA Antenna **<Ant. 4>:** ILA Antenna

EUT Information List	
S/N	**Performed Test Item**
41101FDAP0002H	RF Conducted Measurement
41051FDAP0001T	Radiated Spurious Emission
3B131FDAP0007E	Conducted Emission

Antenna information		
5850 MHz ~ 5895 MHz	Peak Gain (dBi)	Ant. 3: -1.5 Ant. 4: -2.8

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

1.1.1 Antenna Directional Gain

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

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

For power measurements on IEEE 802.11 devices,

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

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

For PSD measurements, the directional gain calculation.

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

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 kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

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

Where G1, G2….GN denote single antenna gain.

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

UNII-4	Ant 3 (dBi)	Ant 4 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
	-1.50	-2.80	-1.50	0.88

Calculation example:

If a device has two antenna, G_{ANT1}= -1.50 dBi; G_{ANT2}=-2.80 dBi

Directional gain of power measurement = max(-1.50, -2.80) + 0 = -1.50 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (-1.50 dBi / 20) + 10^ (-2.80 dBi / 20)] ^ 2 } / 2 }

= 0.88 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. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH16-HY

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

FCC designation No.: 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 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 291074 D02 EMC Measurement v01
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane with Adapter as worst plane.

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

2.1 Carrier Frequency and Channel

Frequency Band	Bandwidth	Channel	Frequency (MHz)	Note
5850-5895 MHz (U-NII-4)	20 MHz	169	5845	Straddle
		173	5865	
		177	5885	
	40 MHz	167	5835	Straddle
		175	5875	
	80 MHz	171	5855	Straddle
	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 supports WiFi 802.11be 20MHz bandwidth for 2.4GHz and 160MHz bandwidth for both 5GHz and 6GHz.

This device supports 26/52/106/242/484/996 single tone RU modes for 802.11ax/be modes and the 242/484/996-tone RU modes are covered by 20/40/80MHz channels.

This device supports MRU 52T+26T/106T+26T (small RU) and punctured modes (large RU) for 802.11be mode.

The PSD of partial RU/MRU modes are reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax/be modes are investigated among full RU, single RU and MRU modes for emission spot check and the 11ax modes are covered by 11be modes.

The PSD and power of partial RU and MRU are less than full RU configurations so the full RU is chosen as main test configuration.

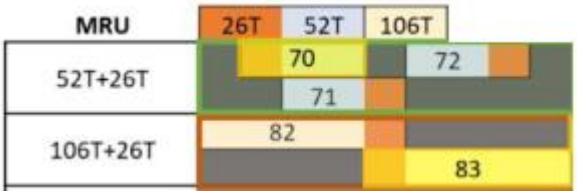
The power for 802.11n, 802.11ac and 802.11ax mode is smaller than 802.11be mode, so all other conducted and radiated test is covered by 802.11be mode.

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

Specification	MCS index /Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by EHT20)	MCS0
802.11n HT40 (Covered by EHT40)	MCS0
802.11ac VHT20 (Covered by EHT20)	MCS0
802.11ac VHT40 (Covered by EHT40)	MCS0
802.11ac VHT80 (Covered by EHT80)	MCS0
802.11ac VHT160 (Covered by EHT160)	MCS0
802.11ax HE20 (Covered by EHT20)	MCS0
802.11ax HE40 (Covered by EHT40)	MCS0
802.11ax HE80 (Covered by EHT80)	MCS0
802.11ax HE160 (Covered by EHT160)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0
802.11be EHT160	MCS0

Index of MRU and puncture mode mapping

Small MRU



Large MRU

484+242-tone MRU			
2	1	4	3
80MHz puncture 20			
8	4	2	1

484+242-tone MRU							
2	1	4	3	6	5	8	7
160MHz puncture 20							
128	64	32	16	8	4	2	1

996+484-tone MRU			
2	1	4	3
160MHz puncture 40			
192	48	12	3

Note: The RF waveform is identical for large MRU and puncture modes.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + USB Cable 2 (Charging from AC Adapter 1)

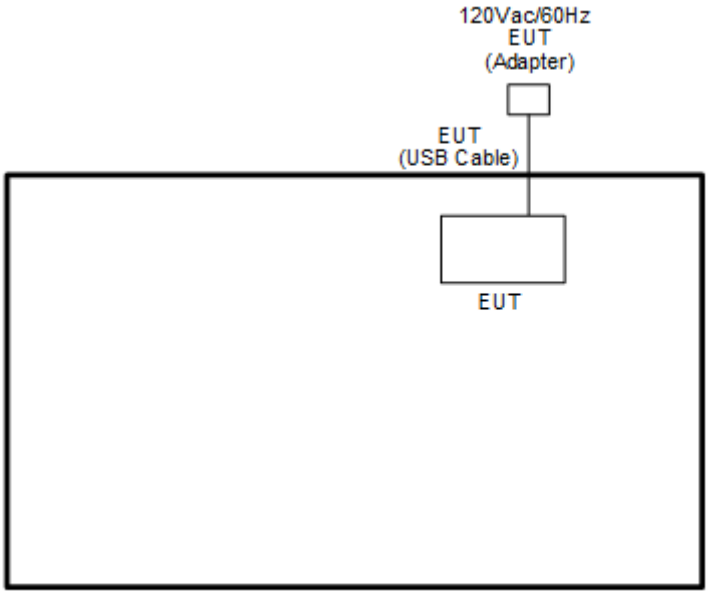
Remark:
1. For Radiated Test Cases, the tests were performed with AC Adapter 1 and USB Cable 2.
2. During the preliminary test, both charging modes (Adapter mode and WPT mode) were verified. It is determined that the adaptor mode is the worst case for official test.

Ch. #		RF test channel of UNII-4 and UNII-3 &-4 span channels				
		802.11a	802.11be EHT20	802.11be EHT40	802.11be EHT80	802.11be EHT160
L	Low	169	169	167	-	-
M	Middle	173	173	-	171	163
H	High	177	177	175	-	-

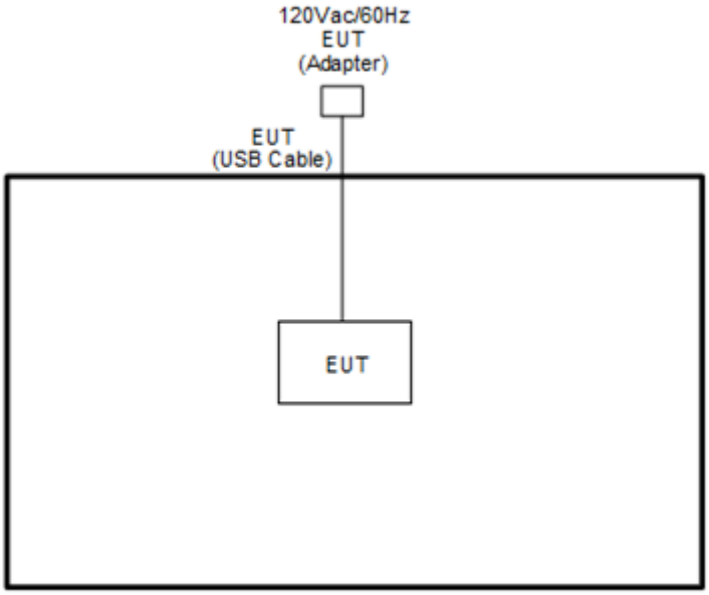
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude5480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “WLAN_DUT_Control_GUI_11-29-23” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

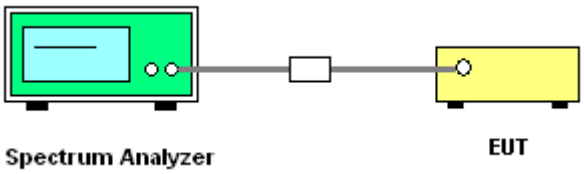
See list of measuring equipment of this test report.

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 ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
6. Measure and record the results in the test report.

3.1.4 Test Setup



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

Please refer to Appendix A.

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

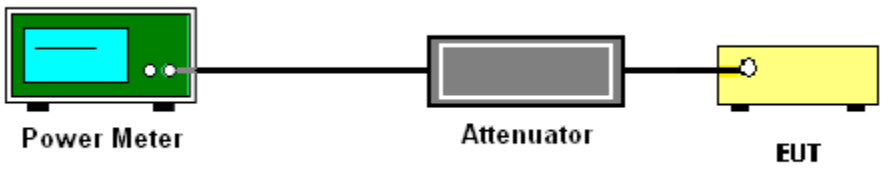
3.2.3 Test Procedures

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.

3.3.2 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).

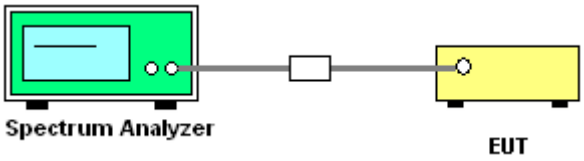
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x),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

1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): Measure and sum the spectra across the outputs.

   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.

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

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

15.407(b)(5)(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[dBμV/m]− 95.2

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

   (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

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

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

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

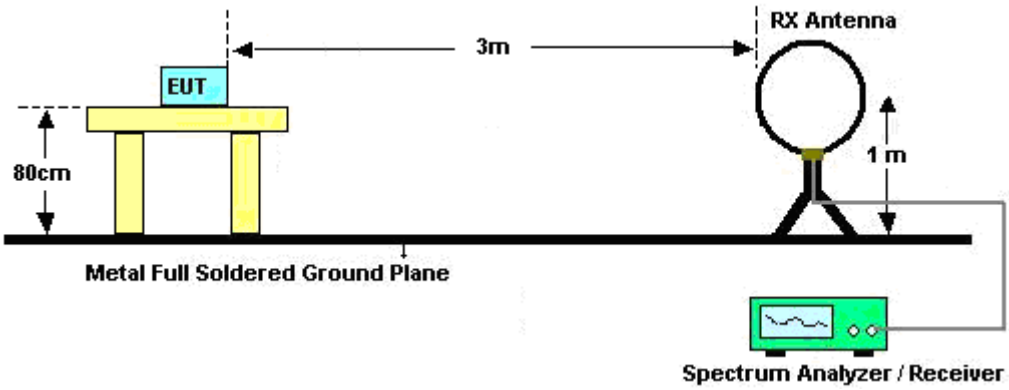
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 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.

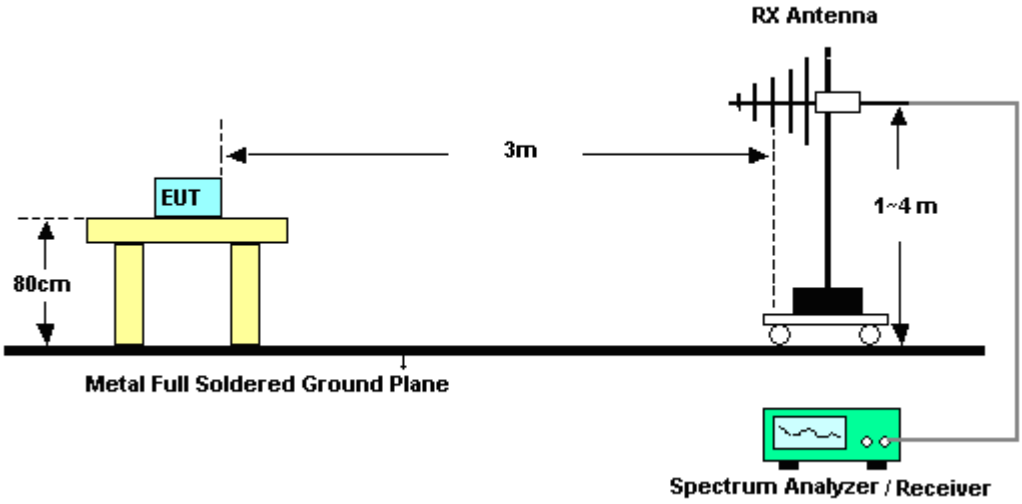
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was placed at distance 3 meter from measurement antenna which was mounted on the top of a variable height antenna tower.
4. The measurement antenna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

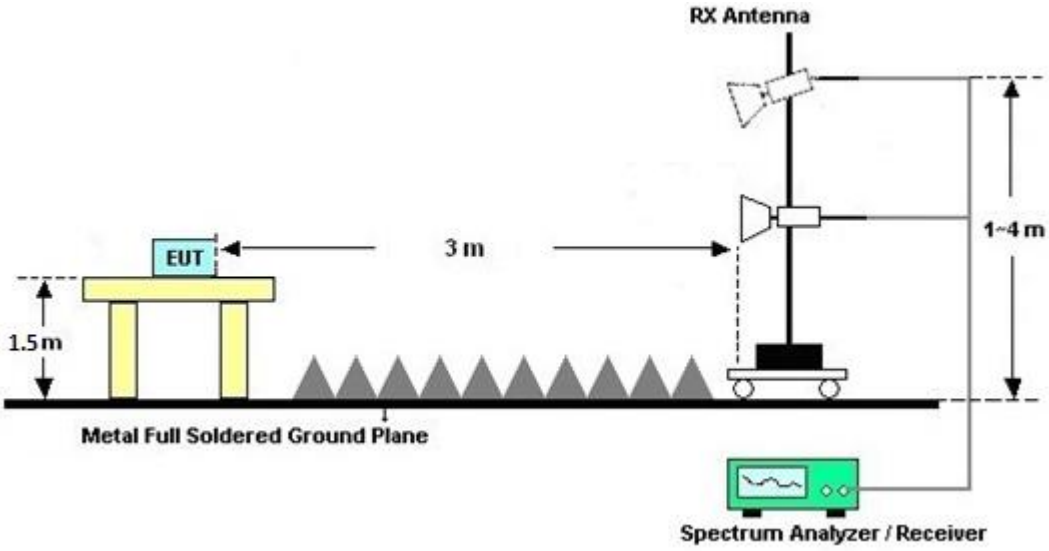
For radiated emissions below 30MHz



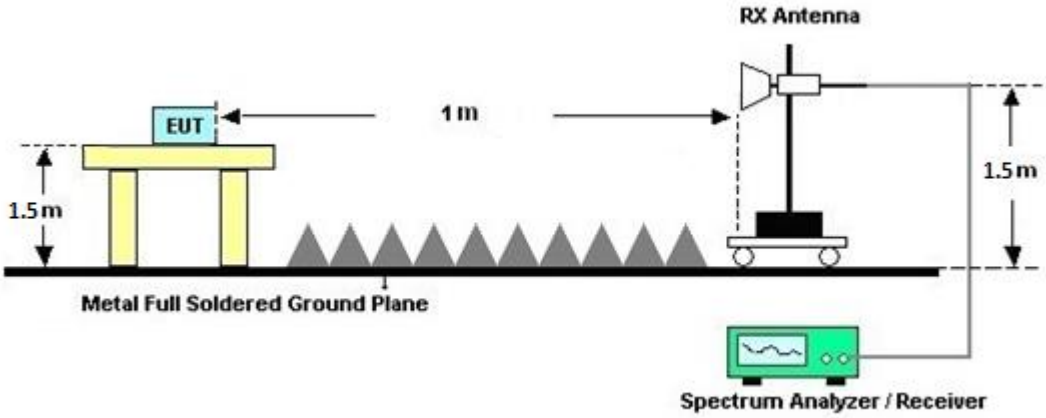
For radiated emissions from 30MHz to 1GHz



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.

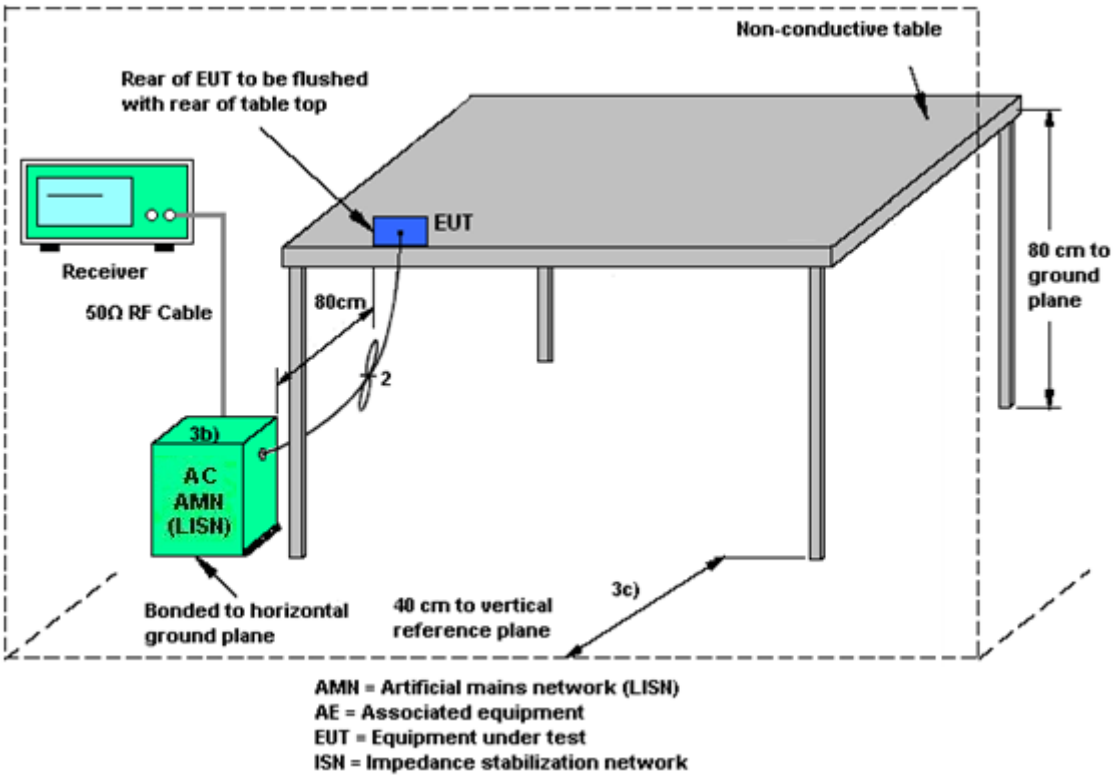
3.5.2 Measuring Instruments

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	Jan. 19, 2024~ Mar. 28, 2024	Sep. 11, 2024	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1224	18GHz-40GHz	Jul. 10, 2023	Jan. 19, 2024~ Mar. 28, 2024	Jul. 09, 2024	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 04, 2023	Jan. 19, 2024~ Mar. 28, 2024	Dec. 03, 2024	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 07, 2023	Jan. 19, 2024~ Mar. 28, 2024	Oct. 06, 2024	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 23, 2023	Jan. 19, 2024~ Mar. 21, 2024	Mar. 22, 2024	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02038	1G~18GHz	Jul. 31, 2023	Mar. 21, 2024~ Mar. 28, 2024	Jul. 30, 2024	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 03, 2023	Jan. 19, 2024~ Mar. 28, 2024	Jul. 02, 2024	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 07, 2023	Jan. 19, 2024~ Mar. 28, 2024	Dec. 06, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 25, 2023	Jan. 19, 2024~ Mar. 28, 2024	Dec. 24, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Jan. 19, 2024~ Mar. 28, 2024	Jun. 26, 2024	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 15, 2024	Jan. 19, 2024~ Mar. 28, 2024	Jan. 14, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN27	6.75GHz High Pass Filter	Nov. 13, 2023	Jan. 19, 2024~ Mar. 28, 2024	Nov. 12, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 07, 2023	Jan. 19, 2024~ Mar. 05, 2024	Mar. 06, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Mar. 06, 2024~ Mar. 28, 2024	Mar. 05, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5757,805935/4,802434/4	30MHz~18GHz	Aug. 08, 2023	Jan. 19, 2024~ Mar. 28, 2024	Aug. 07, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	18-40GHz	Jan. 02, 2024	Jan. 19, 2024~ Mar. 28, 2024	Jan. 01, 2025	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Jan. 19, 2024~ Mar. 28, 2024	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jan. 19, 2024~ Mar. 28, 2024	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 19, 2024~ Mar. 28, 2024	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 19, 2024~ Mar. 28, 2024	N/A	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Jan. 08, 2024~ Apr. 30, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO36 (NO:35_144)	10MHz~6GHz	Aug. 23, 2023	Jan. 08, 2024~ Apr. 30, 2024	Aug. 22, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101435	10HZ~44GHZ	Nov. 01, 2023	Jan. 08, 2024~ Apr. 30, 2024	Oct. 31, 2024	Conducted (TH05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 23, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 23, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2023	Mar. 23, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Mar. 23, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Mar. 23, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Mar. 23, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Mar. 23, 2024	Sep. 19, 2024	Conduction (CO07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.44 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.5 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.5 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.5 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.5 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Willy Chang and Ju Chang	Temperature:	21~25	°C
Test Date:	2024/1/8~2024/4/30	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 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4		
11a	6Mpbs	2	169	5845	22.83	20.21	36.24	35.44	16.40	16.40	0.5	Pass
11a	6Mpbs	2	173	5865	22.78	20.62	36.24	34.32	16.40	16.40	0.5	Pass
11a	6Mpbs	2	177	5885	22.72	21.29	36.24	34.32	16.40	16.45	0.5	Pass

Report Number : FR3N2325K

TEST RESULTS DATA
Average Power Table

UNII-4 MIMO										
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			DG (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
					Ant 3	Ant 4	SUM	Ant 3 + Ant 4	Ant 3 + Ant 4	Ant 3 + Ant 4
11a	6Mpbs	2	169	5845	20.25	20.78	23.53	-1.50	22.03	30
11a	6Mpbs	2	173	5865	19.95	20.38	23.18	-1.50	21.68	30
11a	6Mpbs	2	177	5885	19.95	20.38	23.18	-1.50	21.68	30
HT20	MCS0	2	169	5845	20.35	20.88	23.63	-1.50	22.13	30
HT20	MCS0	2	173	5865	20.45	20.88	23.68	-1.50	22.18	30
HT20	MCS0	2	177	5885	20.15	20.68	23.43	-1.50	21.93	30
HT40	MCS0	2	167	5835	19.35	19.88	22.63	-1.50	21.13	30
HT40	MCS0	2	175	5875	19.35	19.88	22.63	-1.50	21.13	30
VHT20	MCS0	2	169	5845	20.35	20.88	23.63	-1.50	22.13	30
VHT20	MCS0	2	173	5865	20.45	20.88	23.68	-1.50	22.18	30
VHT20	MCS0	2	177	5885	20.15	20.68	23.43	-1.50	21.93	30
VHT40	MCS0	2	167	5835	19.35	19.88	22.63	-1.50	21.13	30
VHT40	MCS0	2	175	5875	19.35	19.88	22.63	-1.50	21.13	30
VHT80	MCS0	2	171	5855	17.25	17.98	20.64	-1.50	19.14	30
VHT160	MCS0	2	163	5815	15.25	15.48	18.38	-1.50	16.88	30

Report Number : FR3N2325K

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 3	Ant 4	Ant 3	Ant 4	SUM	Ant 3 + Ant 4	Ant 3 + Ant 4	Ant 3 + Ant 4	
11a	6Mpbs	2	169	5845	0.00	0.00			13.10	0.88	13.98	14.00	Pass
11a	6Mpbs	2	173	5865	0.00	0.00			13.06	0.88	13.94	14.00	Pass
11a	6Mpbs	2	177	5885	0.00	0.00			12.91	0.88	13.79	14.00	Pass

Note: PSD Sum = Max PSD(Ant. 3, Ant. 4) + 10 log (n)

Report Number : FR3N2325K

TEST RESULTS DATA
Average Power Table

UNII-4 MIMO											
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			DG (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
						Ant 3	Ant 4	SUM	Ant 3 + Ant 4	Ant 3 + Ant 4	Ant 3 + Ant 4
HE20	MCS0	2	169	5845	Full	20.35	20.88	23.63	-1.50	22.13	30
HE20	MCS0	2	173	5865	Full	20.45	20.88	23.68	-1.50	22.18	30
HE20	MCS0	2	177	5885	Full	20.15	20.68	23.43	-1.50	21.93	30
HE40	MCS0	2	167	5835	Full	19.35	19.88	22.63	-1.50	21.13	30
HE40	MCS0	2	175	5875	Full	19.35	19.88	22.63	-1.50	21.13	30
HE80	MCS0	2	171	5855	Full	17.25	17.98	20.64	-1.50	19.14	30
HE160	MCS0	2	163	5815	Full	15.25	15.48	18.38	-1.50	16.88	30

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 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4		
EHT20	MCS0	2	169	5845	Full	24.08	22.00	44.00	38.16	18.80	18.60	0.5	Pass
EHT20	MCS0	2	173	5865	Full	26.39	25.08	43.76	44.32	18.75	18.65	0.5	Pass
EHT20	MCS0	2	177	5885	Full	26.06	23.53	47.68	40.80	18.85	18.15	0.5	Pass
EHT40	MCS0	2	167	5835	Full	39.37	38.78	72.16	71.68	38.16	37.89	0.5	Pass
EHT40	MCS0	2	175	5875	Full	42.89	41.32	75.36	77.92	37.89	37.71	0.5	Pass
EHT80	MCS0	2	171	5855	Full	77.29	77.26	117.12	93.44	77.44	77.12	0.5	Pass
EHT160	MCS0	2	163	5815	Full	157.85	157.35	265.92	271.68	158.40	157.12	0.5	Pass

TEST RESULTS DATA
Average Power Table

UNII-4 MIMO											
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			DG (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
						Ant 3	Ant 4	SUM	Ant 3 + Ant 4	Ant 3 + Ant 4	Ant 3 + Ant 4
EHT20	MCS0	2	169	5845	Full	20.45	20.98	23.73	-1.50	22.23	30
EHT20	MCS0	2	169	5845	26/0	12.35	12.48	15.43	-1.50	13.93	30
EHT20	MCS0	2	169	5845	52/37	16.45	16.88	19.68	-1.50	18.18	30
EHT20	MCS0	2	169	5845	106/53	19.15	19.48	22.33	-1.50	20.83	30
EHT20	MCS0	2	169	5845	52T+26T/70	17.75	18.18	20.98	-1.50	19.48	30
EHT20	MCS0	2	169	5845	106T+26T/82	19.25	19.58	22.43	-1.50	20.93	30
EHT20	MCS0	2	173	5865	Full	20.55	20.98	23.78	-1.50	22.28	30
EHT20	MCS0	2	173	5865	26/4	13.45	13.48	16.48	-1.50	14.98	30
EHT20	MCS0	2	173	5865	52/38	15.95	16.08	19.03	-1.50	17.53	30
EHT20	MCS0	2	173	5865	106/53	19.05	19.18	22.13	-1.50	20.63	30
EHT20	MCS0	2	173	5865	52T+26T/71	17.45	17.58	20.53	-1.50	19.03	30
EHT20	MCS0	2	173	5865	106T+26T/83	19.05	19.18	22.13	-1.50	20.63	30
EHT20	MCS0	2	177	5885	Full	20.25	20.78	23.53	-1.50	22.03	30
EHT20	MCS0	2	177	5885	26/8	13.05	13.18	16.13	-1.50	14.63	30
EHT20	MCS0	2	177	5885	52/40	15.85	16.08	18.98	-1.50	17.48	30
EHT20	MCS0	2	177	5885	106/54	18.55	19.08	21.83	-1.50	20.33	30
EHT20	MCS0	2	177	5885	52T+26T/72	17.05	17.08	20.08	-1.50	18.58	30
EHT20	MCS0	2	177	5885	106T+26T/83	19.15	19.38	22.28	-1.50	20.78	30
EHT40	MCS0	2	167	5835	Full	19.45	19.45	22.73	-1.50	21.23	30
EHT40	MCS0	2	175	5875	Full	19.45	19.45	22.73	-1.50	21.23	30
EHT80	MCS0	2	171	5855	Full	17.35	17.98	20.69	-1.50	19.19	30
EHT80	MCS0	2	171	5855	Puncture20/1	16.45	17.18	19.84	-1.50	18.34	30
EHT160	MCS0	2	163	5815	Full	15.35	15.58	18.48	-1.50	16.98	30
EHT160	MCS0	2	163	5815	Puncture40/3	14.95	15.18	18.08	-1.50	16.58	30
EHT160	MCS0	2	163	5815	Puncture20/1	15.25	15.48	18.38	-1.50	16.88	30

TEST RESULTS DATA
Power Spectral Density

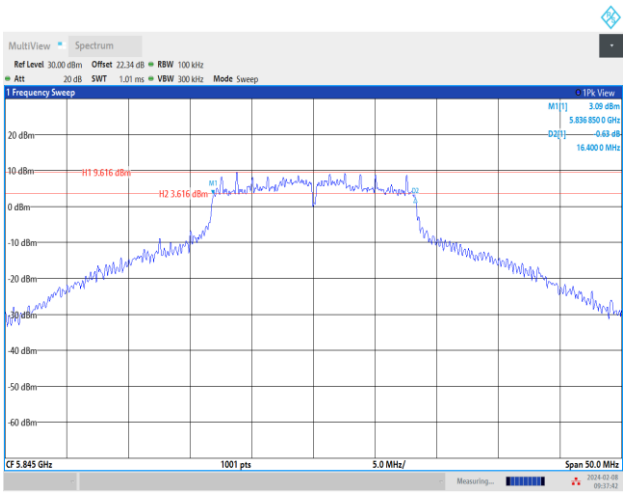
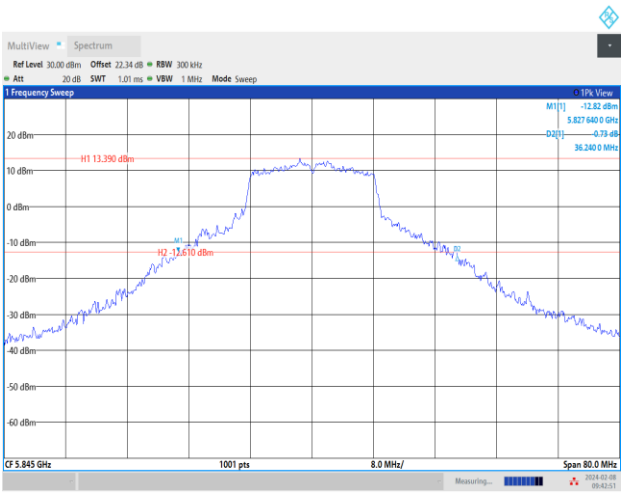
UNII-4 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			DG (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass /Fail
						Ant 3	Ant 4	Ant 3	Ant 4	SUM	Ant 3 + Ant 4	Ant 3 + Ant 4	Ant 3 + Ant 4	
EHT20	MCS0	2	169	5845	Full	0.00	0.00			12.65	0.88	13.53	14.00	Pass
EHT20	MCS0	2	169	5845	26/0	0.08	0.08			12.38	0.88	13.27	14.00	Pass
EHT20	MCS0	2	169	5845	52/37	0.12	0.09			12.58	0.88	13.46	14.00	Pass
EHT20	MCS0	2	169	5845	106/53	0.13	0.13			12.46	0.88	13.35	14.00	Pass
EHT20	MCS0	2	169	5845	52T+26T/70	0.00	0.05			12.56	0.88	13.44	14.00	Pass
EHT20	MCS0	2	169	5845	106T+26T/82	0.09	0.09			12.41	0.88	13.30	14.00	Pass
EHT20	MCS0	2	173	5865	Full	0.00	0.00			13.06	0.88	13.95	14.00	Pass
EHT20	MCS0	2	173	5865	26/4	0.08	0.08			12.63	0.88	13.51	14.00	Pass
EHT20	MCS0	2	173	5865	52/38	0.12	0.09			12.70	0.88	13.59	14.00	Pass
EHT20	MCS0	2	173	5865	106/53	0.13	0.13			12.86	0.88	13.74	14.00	Pass
EHT20	MCS0	2	173	5865	52T+26T/71	0.00	0.05			12.88	0.88	13.77	14.00	Pass
EHT20	MCS0	2	173	5865	106T+26T/83	0.09	0.09			12.68	0.88	13.57	14.00	Pass
EHT20	MCS0	2	177	5885	Full	0.00	0.00			12.69	0.88	13.57	14.00	Pass
EHT20	MCS0	2	177	5885	26/8	0.08	0.08			12.35	0.88	13.24	14.00	Pass
EHT20	MCS0	2	177	5885	52/40	0.12	0.09			12.45	0.88	13.33	14.00	Pass
EHT20	MCS0	2	177	5885	106/54	0.13	0.13			12.35	0.88	13.24	14.00	Pass
EHT20	MCS0	2	177	5885	52T+26T/72	0.00	0.05			12.50	0.88	13.39	14.00	Pass
EHT20	MCS0	2	177	5885	106T+26T/83	0.09	0.09			12.54	0.88	13.42	14.00	Pass
EHT40	MCS0	2	167	5835	Full	0.07	0.07			8.59	0.88	9.48	14.00	Pass
EHT40	MCS0	2	175	5875	Full	0.07	0.07			9.13	0.88	10.01	14.00	Pass
EHT80	MCS0	2	171	5855	Full	0.12	0.12			4.03	0.88	4.92	14.00	Pass
EHT80	MCS0	2	171	5855	Puncture20/1	0.09	0.09			3.95	0.88	4.84	14.00	Pass
EHT160	MCS0	2	163	5815	Full	0.21	0.21			-1.67	0.88	-0.79	14.00	Pass
EHT160	MCS0	2	163	5815	Puncture40/3	0.16	0.16			-1.77	0.88	-0.88	14.00	Pass
EHT160	MCS0	2	163	5815	Puncture20/1	0.18	0.20			-2.22	0.88	-1.34	14.00	Pass

Note: PSD Sum = Max PSD(Ant. 3, Ant. 4) + 10 log (n)

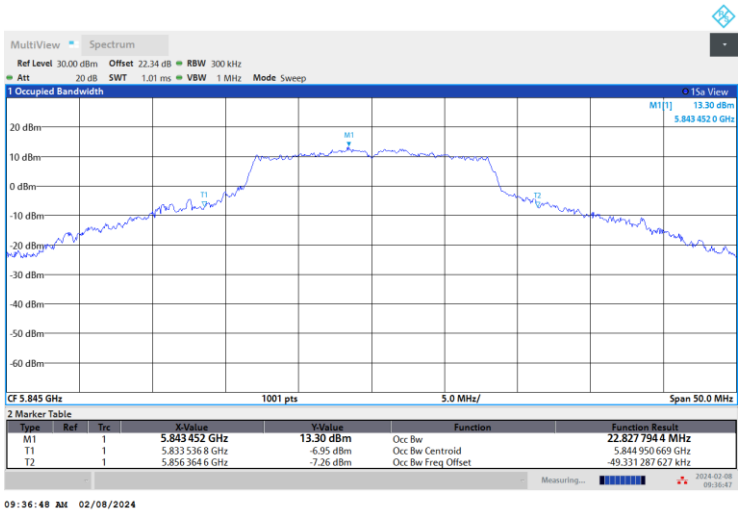
MIMO <Ant. 3+4>

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

<802.11a>

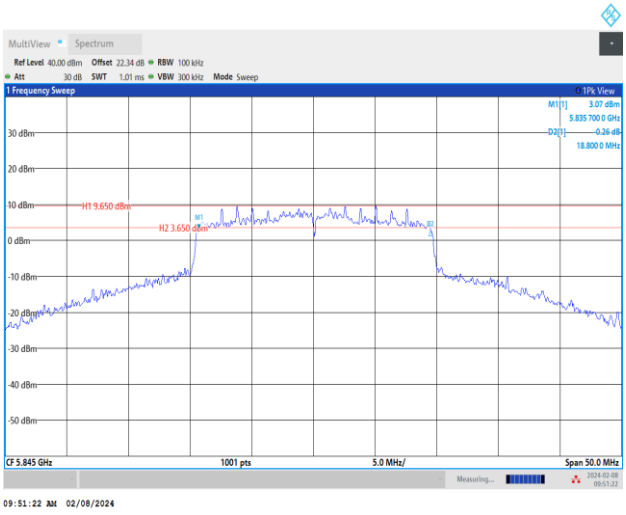
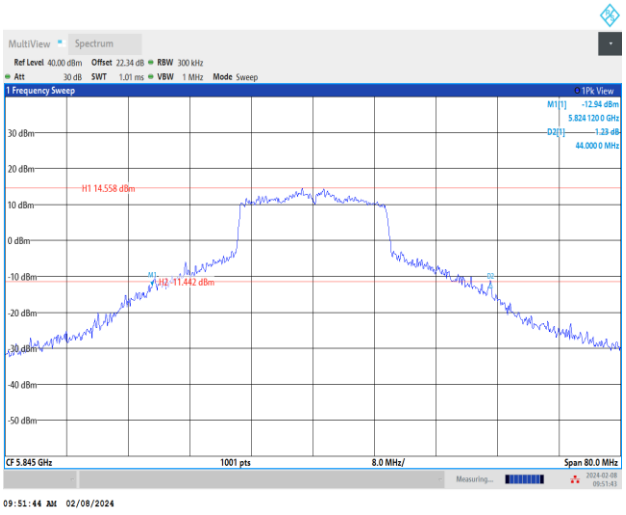
6dB Bandwidth	26dB Bandwidth
	

Occupied Bandwidth

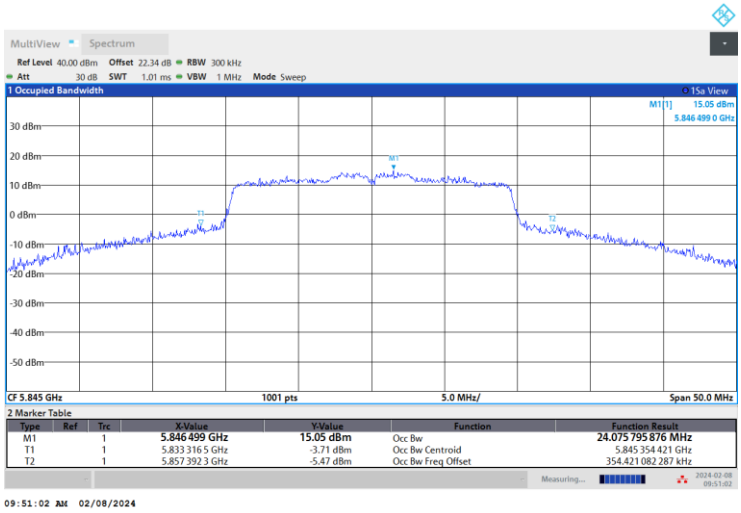


Note: The occupied channel bandwidth is maintained within the band of operation.

<802.11be EHT20>

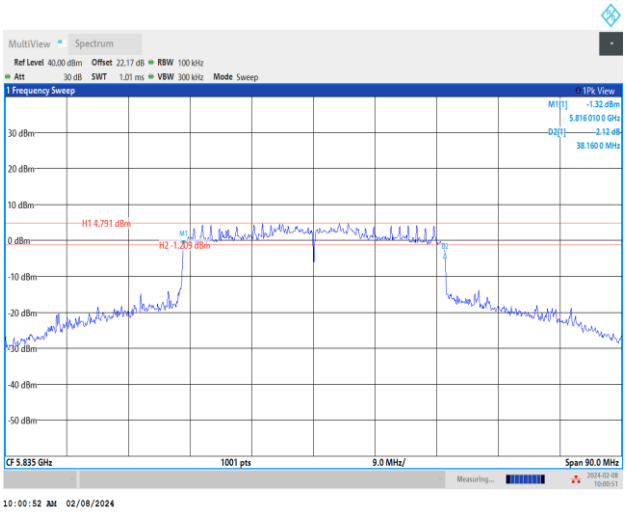
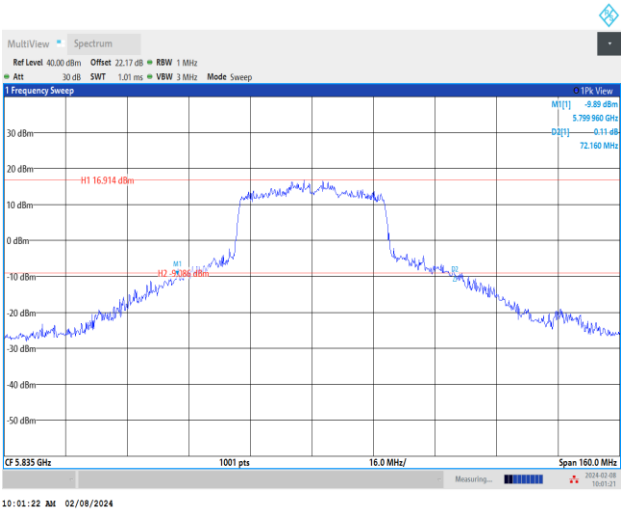
6dB Bandwidth	26dB Bandwidth
	

Occupied Bandwidth

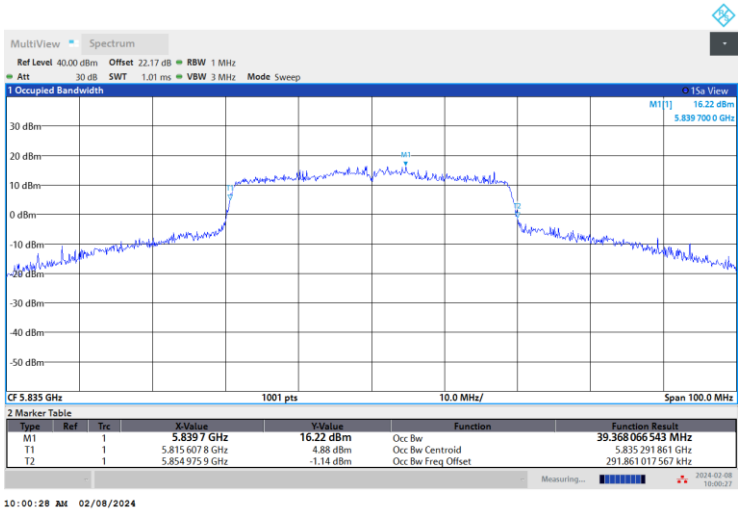


Note: The occupied channel bandwidth is maintained within the band of operation.

<802.11be EHT40>

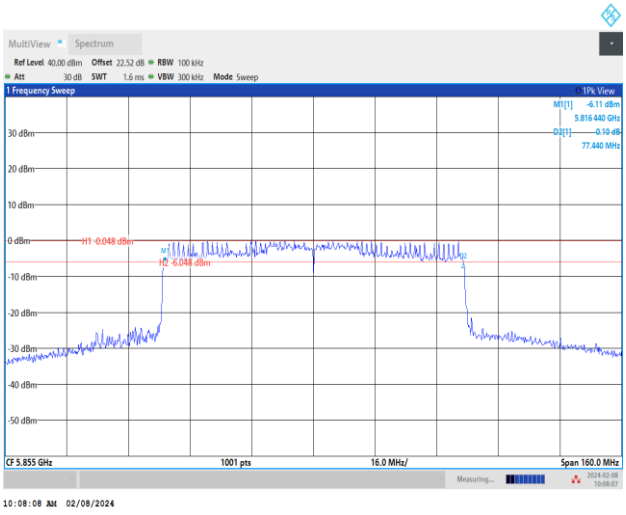
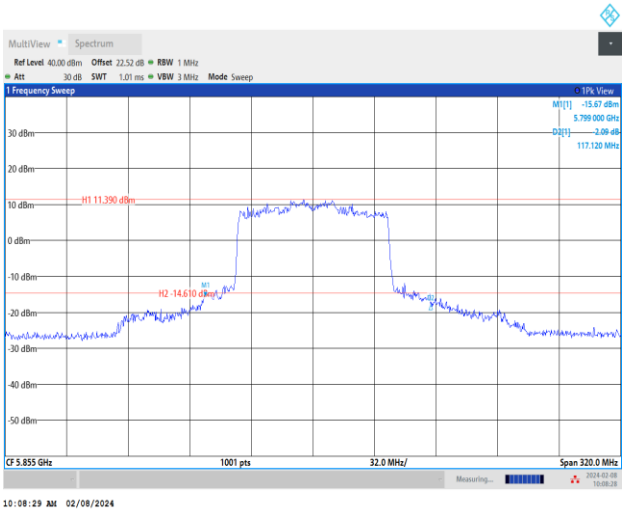
6dB Bandwidth	26dB Bandwidth
	

Occupied Bandwidth

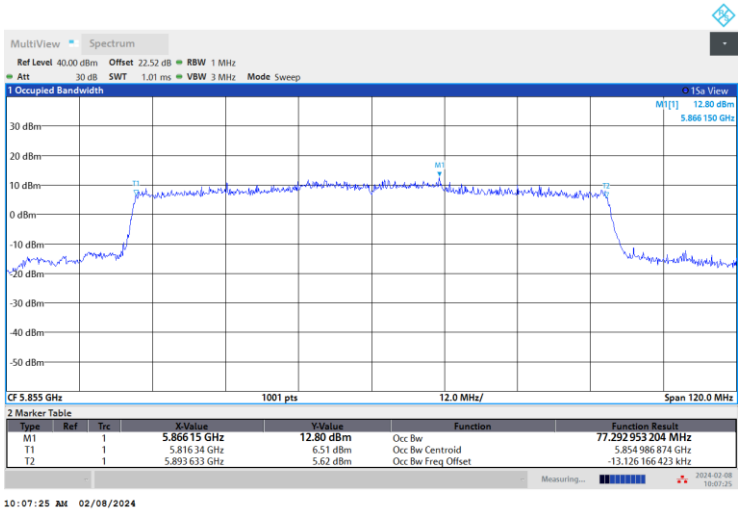


Note: The occupied channel bandwidth is maintained within the band of operation.

<802.11be EHT80>

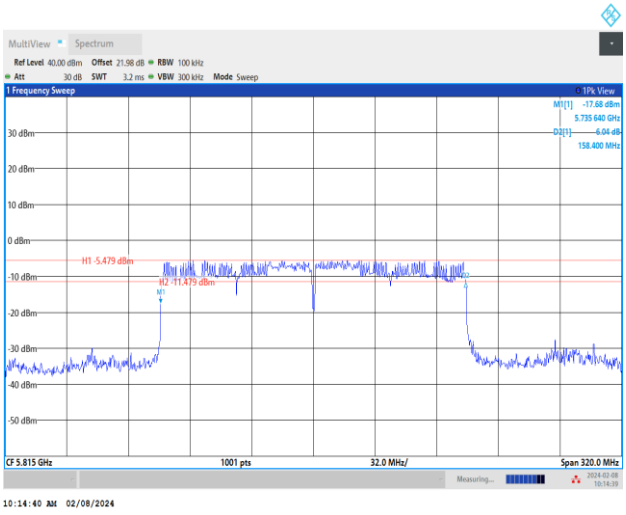
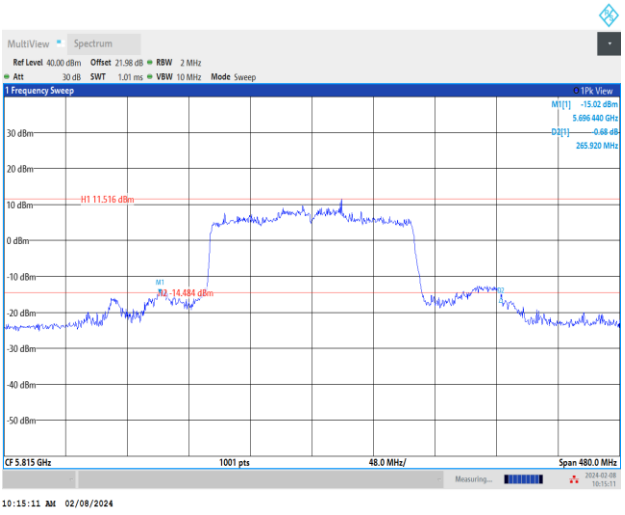
6dB Bandwidth	26dB Bandwidth
	

Occupied Bandwidth

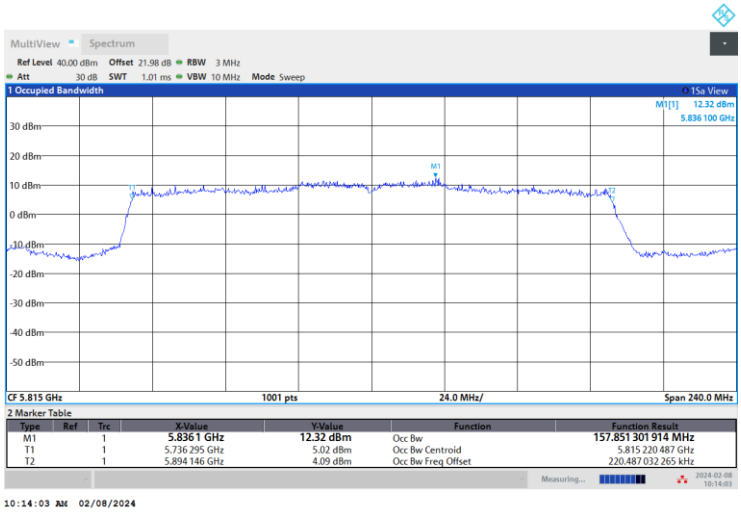


Note: The occupied channel bandwidth is maintained within the band of operation.

<802.11be EHT160>

6dB Bandwidth	26dB Bandwidth
	

Occupied Bandwidth

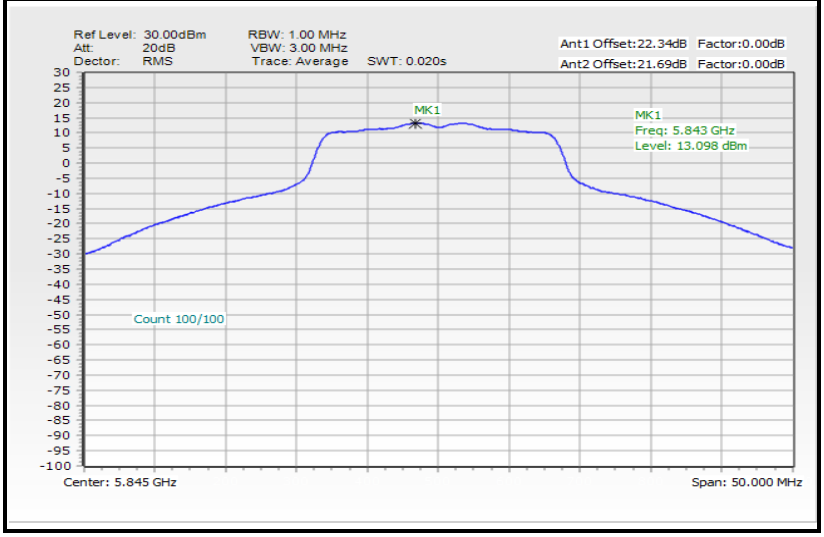


Note: The occupied channel bandwidth is maintained within the band of operation.

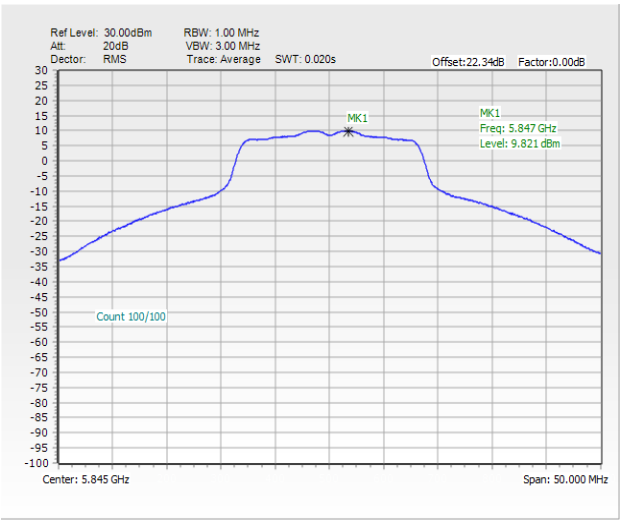
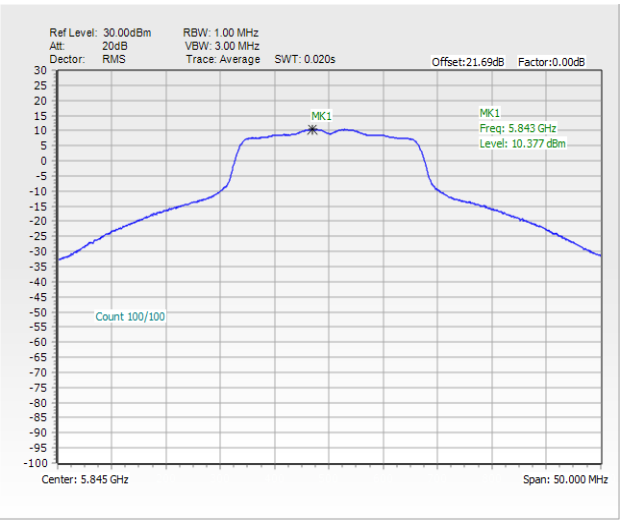
Test Result of Power Spectral Density

<802.11a>

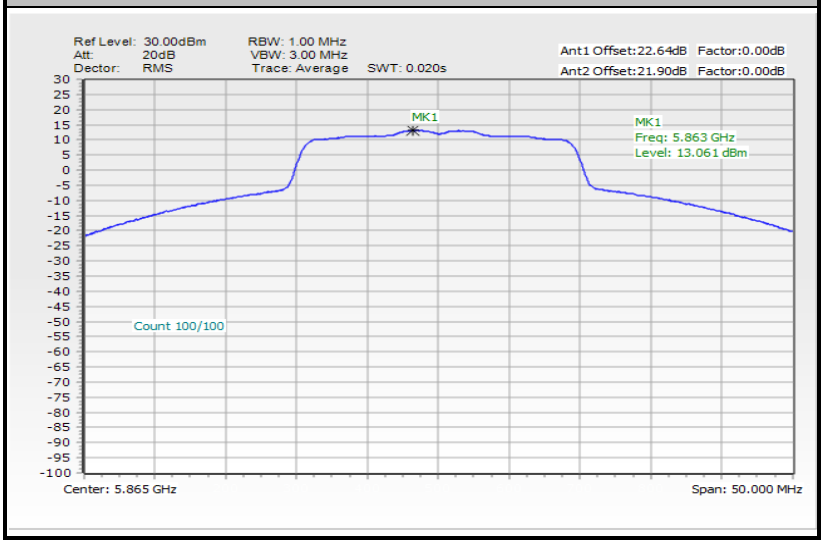
Maximum Power Density Plot (dBm/MHz)



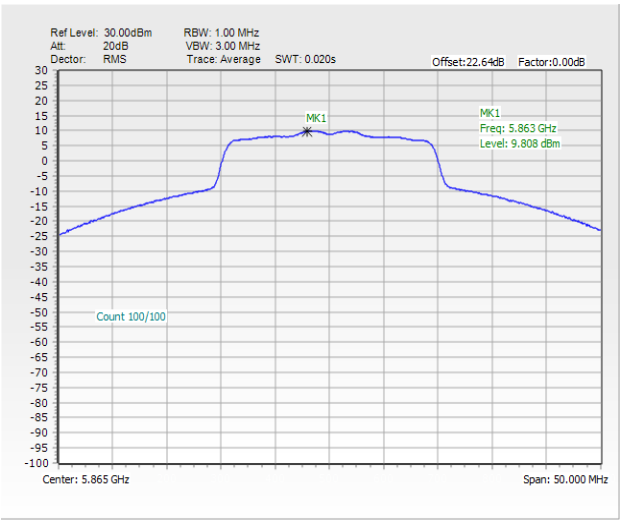
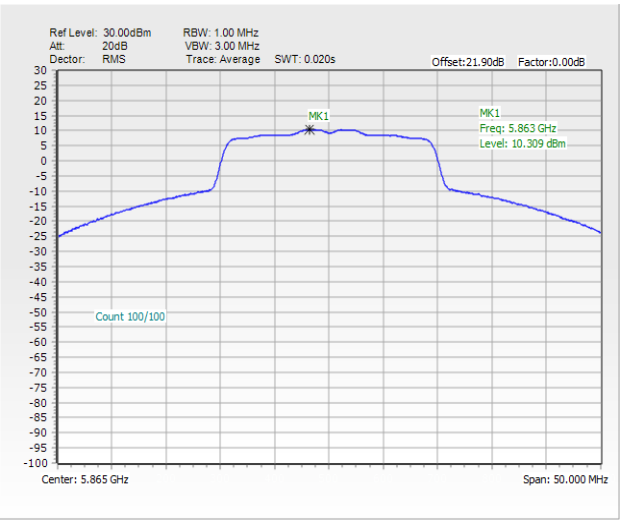
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 3)	Maximum Power Density Plot Trace 2 (Ant 4)
	

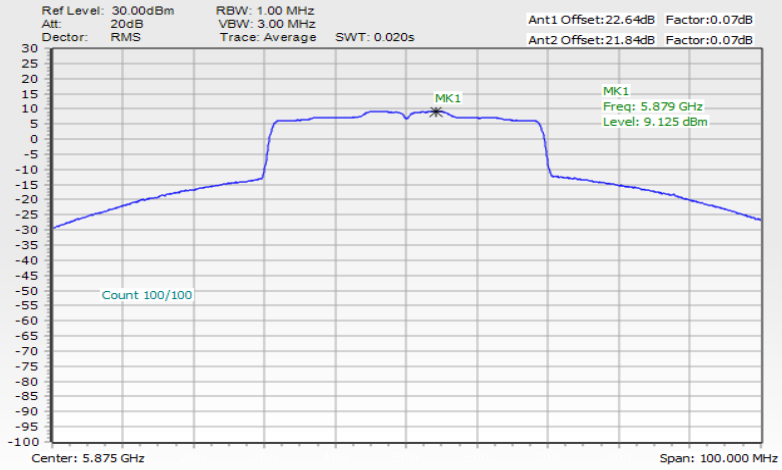
<802.11be EHT20>

Maximum Power Density Plot (dBm/MHz)


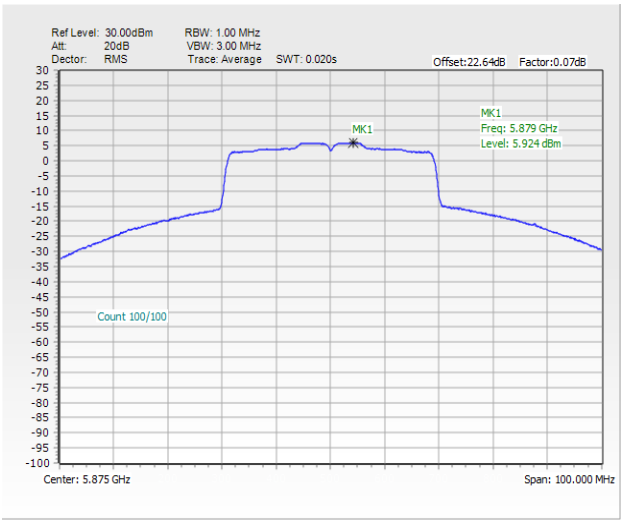
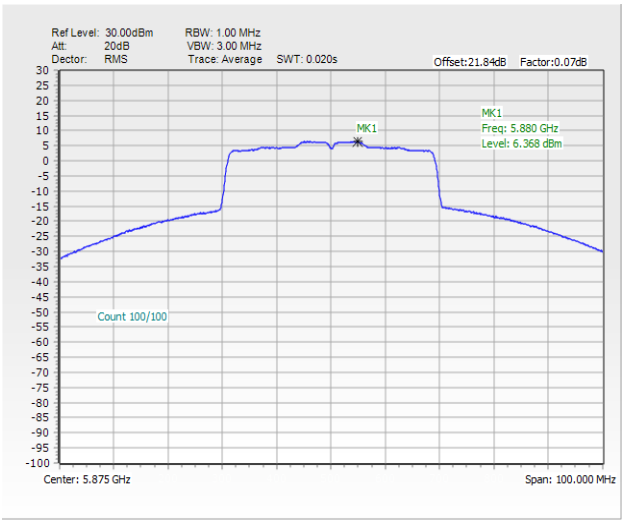
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 3)	Maximum Power Density Plot Trace 2 (Ant 4)
	

<802.11be EHT40>

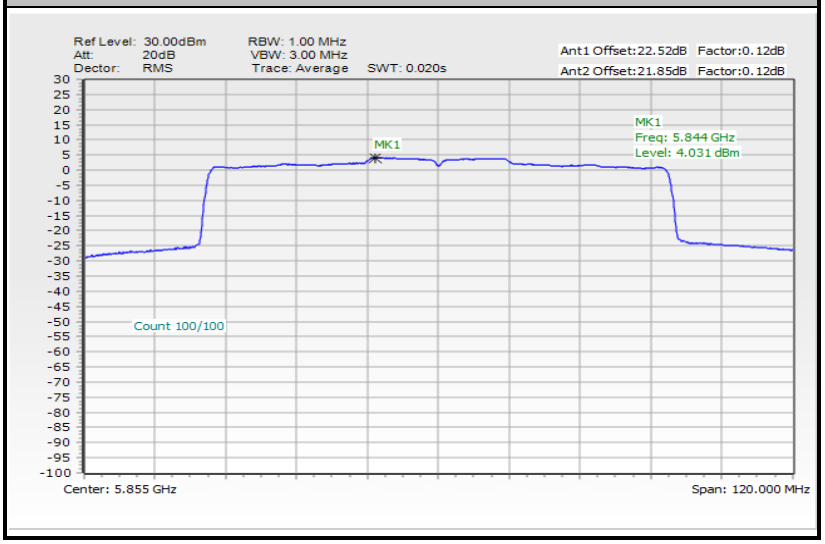
Maximum Power Density Plot (dBm/MHz)


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

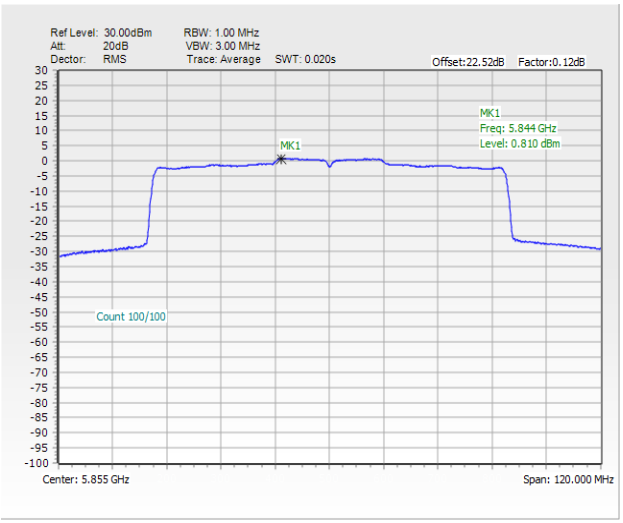
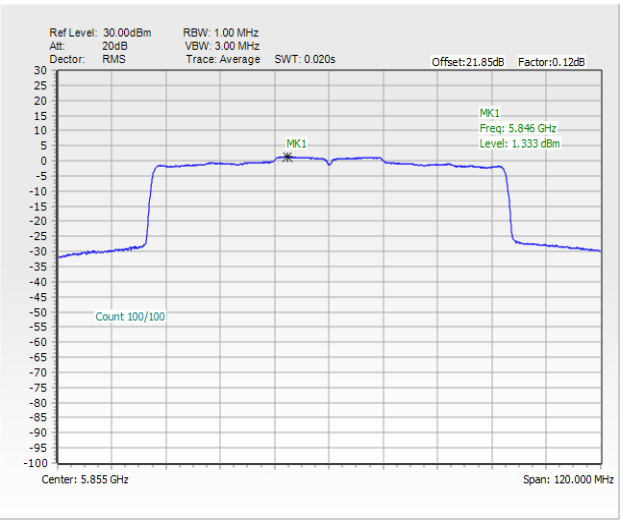
Maximum Power Density Plot Trace 1 (Ant 3)	Maximum Power Density Plot Trace 2 (Ant 4)
	

<802.11be EHT80>

Maximum Power Density Plot (dBm/MHz)

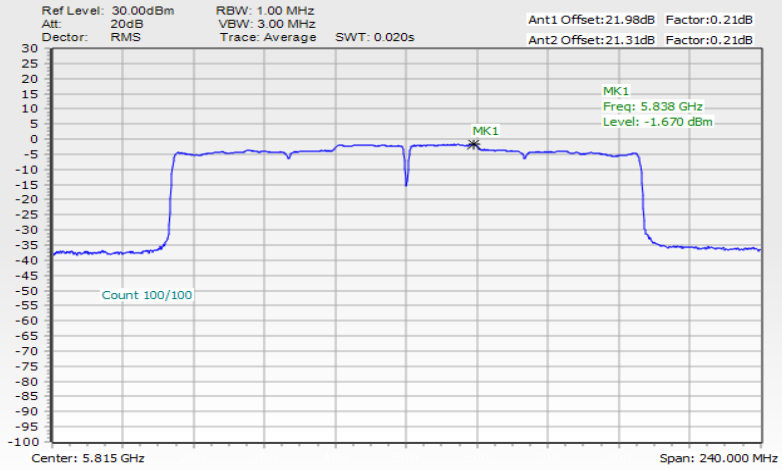


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

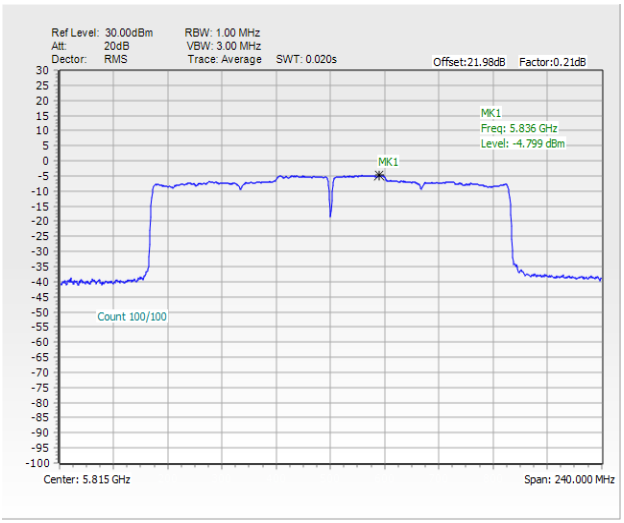
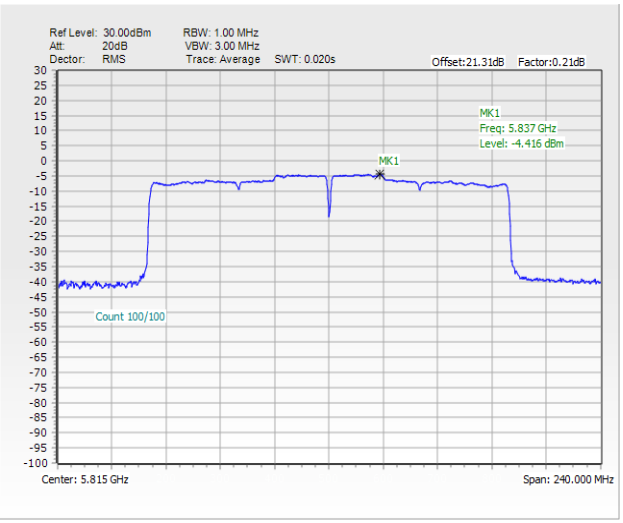
Maximum Power Density Plot Trace 1 (Ant 3)	Maximum Power Density Plot Trace 2 (Ant 4)
	

<802.11be EHT160>

Maximum Power Density Plot (dBm/MHz)



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

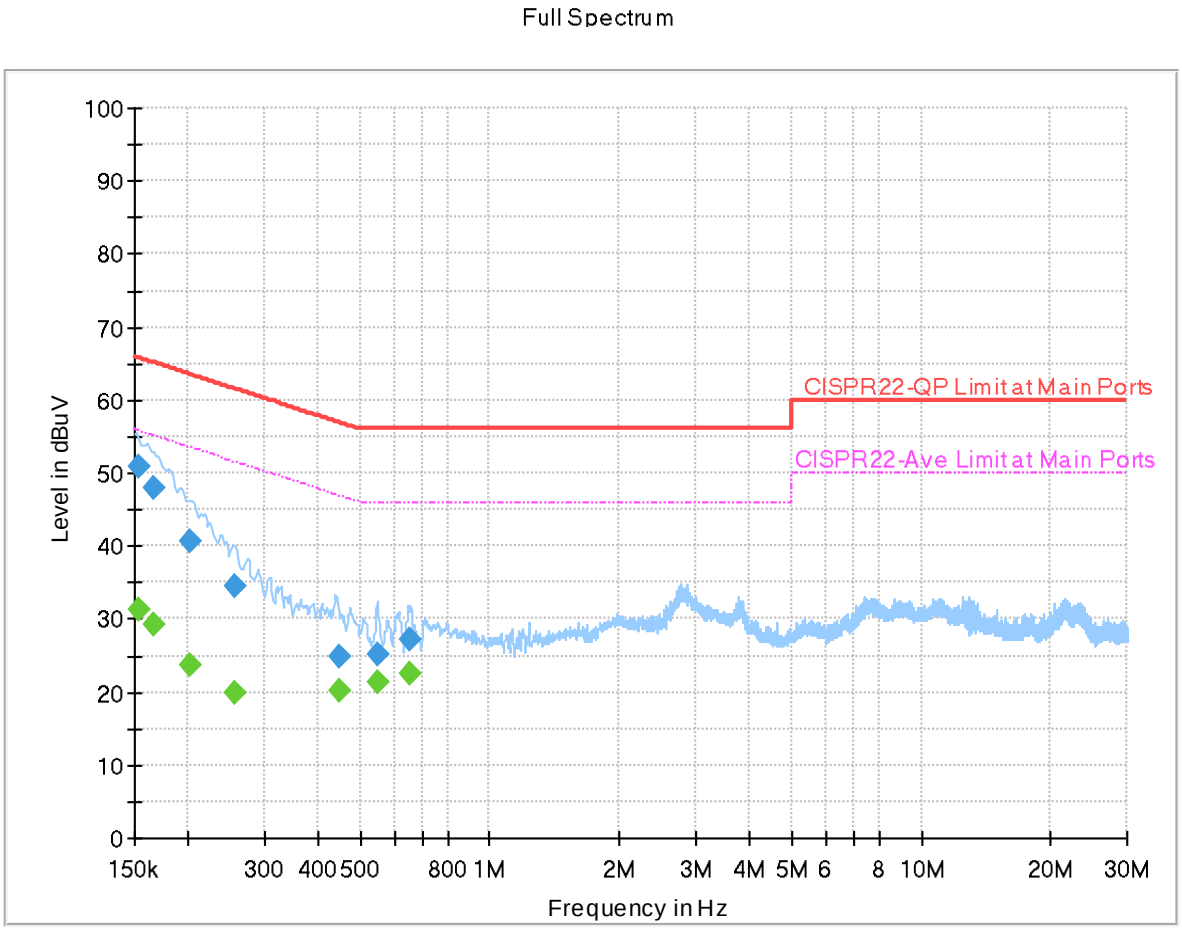
Maximum Power Density Plot Trace 1 (Ant 3)	Maximum Power Density Plot Trace 2 (Ant 4)
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	19.2~23.3℃
		Relative Humidity :	49.5~53.6%

EUT Information

Report NO :	3N2325
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

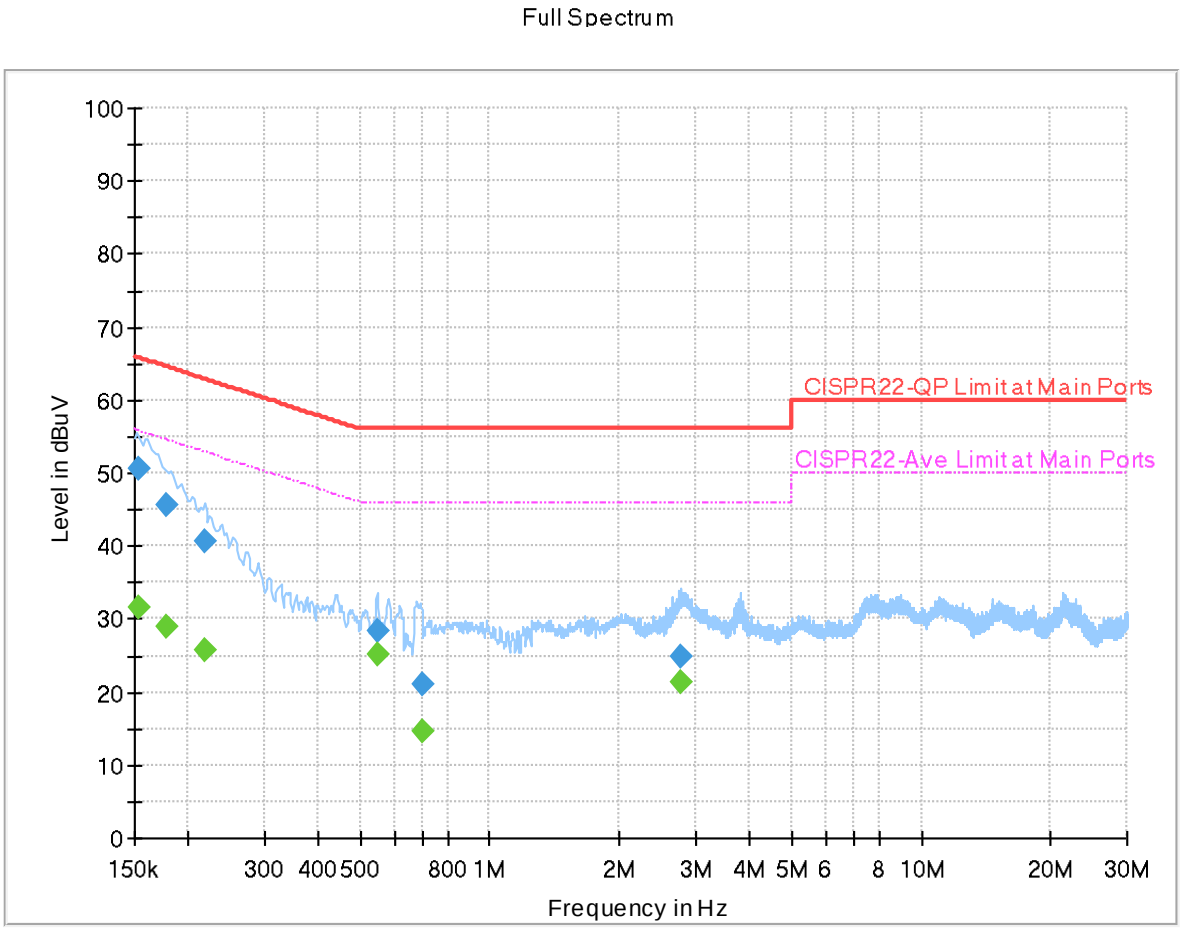


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.153713	---	31.38	55.80	24.42	L1	OFF	19.9
0.153713	50.79	---	65.80	15.01	L1	OFF	19.9
0.165750	---	29.26	55.17	25.91	L1	OFF	19.9
0.165750	47.81	---	65.17	17.36	L1	OFF	19.9
0.201750	---	23.69	53.54	29.85	L1	OFF	19.9
0.201750	40.54	---	63.54	23.00	L1	OFF	19.9
0.256560	---	19.97	51.54	31.57	L1	OFF	19.9
0.256560	34.41	---	61.54	27.13	L1	OFF	19.9
0.447000	---	20.24	46.93	26.69	L1	OFF	19.9
0.447000	24.77	---	56.93	32.16	L1	OFF	19.9
0.547530	---	21.49	46.00	24.51	L1	OFF	19.9
0.547530	25.21	---	56.00	30.79	L1	OFF	19.9
0.652380	---	22.54	46.00	23.46	L1	OFF	19.9
0.652380	27.28	---	56.00	28.72	L1	OFF	19.9

EUT Information

Report NO :	3N2325
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152903	---	31.53	55.84	24.31	N	OFF	19.9
0.152903	50.70	---	65.84	15.14	N	OFF	19.9
0.177090	---	28.98	54.62	25.64	N	OFF	19.9
0.177090	45.65	---	64.62	18.97	N	OFF	19.9
0.218040	---	25.59	52.89	27.30	N	OFF	19.9
0.218040	40.65	---	62.89	22.24	N	OFF	19.9
0.549150	---	25.06	46.00	20.94	N	OFF	19.9
0.549150	28.24	---	56.00	27.76	N	OFF	19.9
0.696750	---	14.55	46.00	31.45	N	OFF	19.9
0.696750	21.02	---	56.00	34.98	N	OFF	19.9
2.783670	---	21.41	46.00	24.59	N	OFF	20.0
2.783670	24.80	---	56.00	31.20	N	OFF	20.0

Appendix C. Radiated Spurious Emission

Test Engineer :	Jack Tsai, Bill Chang, Gary Guo and Steven Wu	Temperature :	18.2~20.2°C
		Relative Humidity :	54.2~56.1%

UNII 4 - 5850~5895MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 169 5845MHz		5637.17	55.54	-12.66	68.2	39.99	33.05	11.88	29.38	101	326	P	H
		5658.115	54.56	-19.67	74.23	38.89	33.15	11.9	29.38	101	326	P	H
		5716.23	55.87	-53.88	109.75	39.82	33.5	11.94	29.39	101	326	P	H
		5721.54	55.11	-59.2	114.31	39.02	33.53	11.95	29.39	101	326	P	H
	*	5845	113.04	-	-	96.35	33.99	12.12	29.42	101	326	P	H
	*	5845	106.55	-	-	89.86	33.99	12.12	29.42	101	326	A	H
		5895.5	64.05	-45.78	109.83	47.06	34.18	12.24	29.43	101	326	P	H
		5943	58.63	-29.57	88.2	41.51	34.2	12.36	29.44	101	326	P	H
		5895	53.35	-36.85	90.2	36.36	34.18	12.24	29.43	101	326	A	H
		5925	48.03	-20.17	68.2	30.95	34.2	12.32	29.44	101	326	A	H
		5632.155	54.13	-14.07	68.2	38.6	33.03	11.88	29.38	359	123	P	V
		5690.86	55.44	-43.02	98.46	39.56	33.35	11.92	29.39	359	123	P	V
		5706.79	55.34	-51.76	107.1	39.35	33.44	11.94	29.39	359	123	P	V
		5722.425	52.72	-63.61	116.33	36.63	33.53	11.95	29.39	359	123	P	V
	*	5845	110.16	-	-	93.47	33.99	12.12	29.42	359	123	P	V
	*	5845	103.76	-	-	87.07	33.99	12.12	29.42	359	123	A	V
		5902.75	57.41	-47.1	104.51	40.38	34.2	12.26	29.43	359	123	P	V
		5934.75	56.93	-31.27	88.2	39.83	34.2	12.34	29.44	359	123	P	V
		5895	49.19	-41.01	90.2	32.2	34.18	12.24	29.43	359	123	A	V
		5950	47.52	-20.68	68.2	30.38	34.2	12.38	29.44	359	123	A	V

WIFI Ant. 3+4	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		5623.01	54.47	-13.73	68.2	38.98	32.99	11.87	29.37	100	327	P	H
		5687.615	54.71	-41.36	96.07	38.85	33.33	11.92	29.39	100	327	P	H
		5712.1	54.31	-54.28	108.59	38.29	33.47	11.94	29.39	100	327	P	H
		5721.835	55.6	-59.38	114.98	39.51	33.53	11.95	29.39	100	327	P	H
	*	5865	111.96	-	-	95.15	34.06	12.17	29.42	100	327	P	H
	*	5865	106.9	-	-	90.09	34.06	12.17	29.42	100	327	A	H
		5895.75	72.74	-36.91	109.65	55.75	34.18	12.24	29.43	100	327	P	H
		5926	62.35	-25.85	88.2	45.27	34.2	12.32	29.44	100	327	P	H
		5895.5	64.54	-25.29	89.83	47.55	34.18	12.24	29.43	100	327	A	H
		5925	51.26	-16.94	68.2	34.18	34.2	12.32	29.44	100	327	A	H
													H
													H
		5633.63	54.09	-14.11	68.2	38.56	33.03	11.88	29.38	320	109	P	V
		5696.17	54.85	-47.53	102.38	38.93	33.38	11.93	29.39	320	109	P	V
		5707.97	55.61	-51.82	107.43	39.61	33.45	11.94	29.39	320	109	P	V
		5722.425	55.69	-60.64	116.33	39.6	33.53	11.95	29.39	320	109	P	V
	*	5865	110.57	-	-	93.76	34.06	12.17	29.42	320	109	P	V
	*	5865	103.84	-	-	87.03	34.06	12.17	29.42	320	109	A	V
		5898.25	70.08	-37.73	107.81	53.07	34.19	12.25	29.43	320	109	P	V
		5925.75	57.94	-30.26	88.2	40.86	34.2	12.32	29.44	320	109	P	V
		5895	60.92	-29.28	90.2	43.93	34.18	12.24	29.43	320	109	A	V
		5925	49.09	-19.11	68.2	32.01	34.2	12.32	29.44	320	109	A	V
													V
													V

WIFI Ant. 3+4	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		5627.435	54.08	-14.12	68.2	38.58	33.01	11.87	29.38	100	326	P	H
		5674.635	54.8	-31.67	86.47	39.02	33.25	11.91	29.38	100	326	P	H
		5705.02	55.08	-51.53	106.61	39.11	33.43	11.93	29.39	100	326	P	H
		5721.835	53.46	-61.52	114.98	37.37	33.53	11.95	29.39	100	326	P	H
	*	5885	112.93	-	-	96	34.14	12.22	29.43	100	326	P	H
	*	5885	107	-	-	90.07	34.14	12.22	29.43	100	326	A	H
		5895.25	94.67	-15.35	110.02	77.68	34.18	12.24	29.43	100	326	P	H
		5927.75	69.29	-18.91	88.2	52.21	34.2	12.32	29.44	100	326	P	H
		5895.5	84.42	-5.41	89.83	67.43	34.18	12.24	29.43	100	326	A	H
		5925.5	59.19	-9.01	68.2	42.11	34.2	12.32	29.44	100	326	A	H
		5633.925	54.28	-13.92	68.2	38.74	33.04	11.88	29.38	100	119	P	V
		5686.73	54.36	-41.05	95.41	38.51	33.32	11.92	29.39	100	119	P	V
		5719.77	54.85	-55.89	110.74	38.77	33.52	11.95	29.39	100	119	P	V
		5720.655	53.39	-58.9	112.29	37.31	33.52	11.95	29.39	100	119	P	V
	*	5885	110.75	-	-	93.82	34.14	12.22	29.43	100	119	P	V
	*	5885	104.27	-	-	87.34	34.14	12.22	29.43	100	119	A	V
		5895	90.01	-20.19	110.2	73.02	34.18	12.24	29.43	100	119	P	V
		5925.5	68.19	-20.01	88.2	51.11	34.2	12.32	29.44	100	119	P	V
		5896.5	80.27	-8.83	89.1	63.26	34.19	12.25	29.43	100	119	A	V
		5925.25	57.23	-10.97	68.2	40.15	34.2	12.32	29.44	100	119	A	V
		5633.925	54.28	-13.92	68.2	38.74	33.04	11.88	29.38	100	119		V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

UNII 4 - 5850~5895MHz

WIFI 802.11a (Harmonic @ 3m)

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 CH 169 5845MHz		11690	47.5	-26.5	74	57.05	38.68	17.64	65.87	-	-	P	H
		17535	49.84	-18.36	68.2	53.97	39.08	22.09	65.3	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11690	46.63	-27.37	74	56.18	38.68	17.64	65.87	-	-	P	V
		17535	49.42	-18.78	68.2	53.55	39.08	22.09	65.3	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 3+4	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)
		11730	47.22	-26.78	74	56.74	38.7	17.67	65.89	-	-	P	H
		17595	49.91	-18.29	68.2	53.68	39.38	22.11	65.26	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 173 5865MHz													H
		11730	46.77	-27.23	74	56.29	38.7	17.67	65.89	-	-	P	V
		17595	53.78	-14.42	68.2	57.55	39.38	22.11	65.26	100	292	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 3+4	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		11770	46.44	-27.56	74	55.99	38.66	17.7	65.91	-	-	P	H
		17655	50.1	-18.1	68.2	53.65	39.54	22.14	65.23	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11770	47.66	-26.34	74	57.21	38.66	17.7	65.91	-	-	P	V
		17655	53.69	-14.51	68.2	57.24	39.54	22.14	65.23	100	286	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT20)_Full (Band Edge @ 3m)

WIFI Ant. 3+4	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)
802.11be (EHT20) Full CH 169 5845MHz		5634.515	54	-14.2	68.2	38.46	33.04	11.88	29.38	101	326	P	H
		5676.11	54.94	-32.62	87.56	39.16	33.26	11.91	29.39	101	326	P	H
		5711.51	54.48	-53.95	108.43	38.46	33.47	11.94	29.39	101	326	P	H
		5723.015	53.27	-64.41	117.68	37.17	33.54	11.95	29.39	101	326	P	H
	*	5845	110.87	-	-	94.18	33.99	12.12	29.42	101	326	P	H
	*	5845	105.09	-	-	88.4	33.99	12.12	29.42	101	326	A	H
		5896	64.91	-44.55	109.46	47.91	34.18	12.25	29.43	101	326	P	H
		5927.75	57.61	-30.59	88.2	40.53	34.2	12.32	29.44	101	326	P	H
		5896.5	54.55	-34.55	89.1	37.54	34.19	12.25	29.43	101	326	A	H
		5925	48.3	-19.9	68.2	31.22	34.2	12.32	29.44	101	326	A	H
		5628.615	54.26	-13.94	68.2	38.76	33.01	11.87	29.38	398	122	P	V
		5698.53	54.49	-49.63	104.12	38.56	33.39	11.93	29.39	398	122	P	V
		5714.165	54.52	-54.65	109.17	38.49	33.48	11.94	29.39	398	122	P	V
		5723.605	53.68	-65.34	119.02	37.58	33.54	11.95	29.39	398	122	P	V
	*	5845	109.09	-	-	92.4	33.99	12.12	29.42	398	122	P	V
	*	5845	102.27	-	-	85.58	33.99	12.12	29.42	398	122	A	V
		5911	58.2	-40.25	98.45	41.15	34.2	12.28	29.43	398	122	P	V
		5960.5	57.61	-30.59	88.2	40.49	34.16	12.4	29.44	398	122	P	V
		5895	49.68	-40.52	90.2	32.69	34.18	12.24	29.43	398	122	A	V
		5955.25	47.57	-20.63	68.2	30.44	34.18	12.39	29.44	398	122	A	V

WIFI Ant. 3+4	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)
802.11be (EHT20) Full CH 173 5865MHz		5640.71	55.24	-12.96	68.2	39.68	33.06	11.88	29.38	100	325	P	H
		5693.22	55.33	-44.87	100.2	39.44	33.36	11.92	29.39	100	325	P	H
		5712.69	55.37	-53.39	108.76	39.34	33.48	11.94	29.39	100	325	P	H
		5720.36	54.5	-57.12	111.62	38.42	33.52	11.95	29.39	100	325	P	H
	*	5865	110.68	-	-	93.87	34.06	12.17	29.42	100	325	P	H
	*	5865	104.17	-	-	87.36	34.06	12.17	29.42	100	325	A	H
		5895	72.72	-37.48	110.2	55.73	34.18	12.24	29.43	100	325	P	H
		5932.75	60.49	-27.71	88.2	43.39	34.2	12.34	29.44	100	325	P	H
		5895	64.06	-26.14	90.2	47.07	34.18	12.24	29.43	100	325	A	H
		5925	51.09	-17.11	68.2	34.01	34.2	12.32	29.44	100	325	A	H
													H
													H
		5624.78	55.01	-13.19	68.2	39.51	33	11.87	29.37	335	110	P	V
		5659.885	55.09	-20.45	75.54	39.41	33.16	11.9	29.38	335	110	P	V
		5703.84	54.97	-51.31	106.28	39.01	33.42	11.93	29.39	335	110	P	V
		5725.08	55.67	-78.53	134.2	39.57	33.55	11.95	29.4	335	110	P	V
	*	5865	108.05	-	-	91.24	34.06	12.17	29.42	335	110	P	V
	*	5865	101.26	-	-	84.45	34.06	12.17	29.42	335	110	A	V
		5897.5	69.05	-39.31	108.36	52.04	34.19	12.25	29.43	335	110	P	V
		5925.25	59.45	-28.75	88.2	42.37	34.2	12.32	29.44	335	110	P	V
		5895.5	61.42	-28.41	89.83	44.43	34.18	12.24	29.43	335	110	A	V
		5925	48.98	-19.22	68.2	31.9	34.2	12.32	29.44	335	110	A	V
													V
													V

WIFI Ant. 3+4	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)
802.11be (EHT20) Full CH 177 5885MHz		5642.185	56.02	-12.18	68.2	40.45	33.07	11.88	29.38	100	326	P	H
		5698.825	54.97	-49.36	104.33	39.04	33.39	11.93	29.39	100	326	P	H
		5711.215	55.35	-52.99	108.34	39.33	33.47	11.94	29.39	100	326	P	H
		5720.065	54.09	-56.86	110.95	38.01	33.52	11.95	29.39	100	326	P	H
	*	5885	111.03	-	-	94.1	34.14	12.22	29.43	100	326	P	H
	*	5885	104.79	-	-	87.86	34.14	12.22	29.43	100	326	A	H
		5895	87.96	-22.24	110.2	70.97	34.18	12.24	29.43	100	326	P	H
		5926.5	69.22	-18.98	88.2	52.14	34.2	12.32	29.44	100	326	P	H
		5895	79.53	-10.67	90.2	62.54	34.18	12.24	29.43	100	326	A	H
		5925	59.02	-9.18	68.2	41.94	34.2	12.32	29.44	100	326	A	H
		5604.425	55.04	-13.16	68.2	39.64	32.92	11.85	29.37	317	109	P	V
		5688.205	54.89	-41.61	96.5	39.03	33.33	11.92	29.39	317	109	P	V
		5720.065	53.36	-57.59	110.95	37.28	33.52	11.95	29.39	317	109	P	V
		5722.72	54.73	-62.27	117	38.63	33.54	11.95	29.39	317	109	P	V
	*	5885	107.62	-	-	90.69	34.14	12.22	29.43	317	109	P	V
	*	5885	101.5	-	-	84.57	34.14	12.22	29.43	317	109	A	V
		5895	87.14	-23.06	110.2	70.15	34.18	12.24	29.43	317	109	P	V
		5927.25	64.65	-23.55	88.2	47.57	34.2	12.32	29.44	317	109	P	V
		5895	79.31	-10.89	90.2	62.32	34.18	12.24	29.43	317	109	A	V
		5925.5	56.62	-11.58	68.2	39.54	34.2	12.32	29.44	317	109	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT20) Full (Harmonic @ 3m)

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)
802.11be (EHT20) Full CH 169 5845MHz		11690	47.42	-26.58	74	56.97	38.68	17.64	65.87	-	-	P	H
		17535	49.95	-18.25	68.2	54.08	39.08	22.09	65.3	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11690	46.84	-27.16	74	56.39	38.68	17.64	65.87	-	-	P	V
		17535	50.15	-18.05	68.2	54.28	39.08	22.09	65.3	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 3+4	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)
802.11be (EHT20) Full CH 173 5865MHz		11730	46.35	-27.65	74	55.87	38.7	17.67	65.89	-	-	P	H
		17595	50.75	-17.45	68.2	54.52	39.38	22.11	65.26	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11730	47.73	-26.27	74	57.25	38.7	17.67	65.89	-	-	P	V
		17595	49.92	-18.28	68.2	53.69	39.38	22.11	65.26	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 3+4	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)
802.11be (EHT20) Full CH 177 5885MHz		11770	47.06	-26.94	74	56.61	38.66	17.7	65.91	-	-	P	H
		17655	49.33	-18.87	68.2	52.88	39.54	22.14	65.23	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11770	47	-27	74	56.55	38.66	17.7	65.91	-	-	P	V
		17655	50.76	-17.44	68.2	54.31	39.54	22.14	65.23	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT20)_Partial 26 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11be (EHT20) Partial 26/0 CH 169 5845MHz		5613.57	54.2	-14	68.2	38.76	32.95	11.86	29.37	100	64	P	H
		5675.52	54.6	-32.53	87.13	38.83	33.25	11.91	29.39	100	64	P	H
		5701.185	54.85	-50.68	105.53	38.9	33.41	11.93	29.39	100	64	P	H
		5724.785	55.91	-65.8	121.71	39.8	33.55	11.95	29.39	100	64	P	H
	*	5845	111.11	-	-	94.42	33.99	12.12	29.42	100	64	P	H
	*	5845	105.52	-	-	88.83	33.99	12.12	29.42	100	64	A	H
		5920	57.04	-34.82	91.86	39.97	34.2	12.3	29.43	100	64	P	H
		5963.75	56.33	-31.87	88.2	39.21	34.15	12.41	29.44	100	64	P	H
		5917	47.41	-26.65	74.06	30.34	34.2	12.3	29.43	100	64	A	H
		5954.5	47.28	-20.92	68.2	30.15	34.18	12.39	29.44	100	64	A	H
		5649.56	54.95	-13.25	68.2	39.34	33.1	11.89	29.38	100	120	P	V
		5693.515	54.64	-45.78	100.42	38.75	33.36	11.92	29.39	100	120	P	V
		5710.33	55.28	-52.81	108.09	39.27	33.46	11.94	29.39	100	120	P	V
		5720.36	52.95	-58.67	111.62	36.87	33.52	11.95	29.39	100	120	P	V
	*	5845	109.26	-	-	92.57	33.99	12.12	29.42	100	120	P	V
	*	5845	102.01	-	-	85.32	33.99	12.12	29.42	100	120	A	V
		5912.25	55.46	-42.08	97.54	38.4	34.2	12.29	29.43	100	120	P	V
		5933	56.08	-32.12	88.2	38.98	34.2	12.34	29.44	100	120	P	V
		5900.75	47.15	-38.82	85.97	30.12	34.2	12.26	29.43	100	120	A	V
		5948.5	47.21	-20.99	68.2	30.08	34.2	12.37	29.44	100	120	A	V

WIFI Ant. 3+4	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)
		5624.485	53.6	-14.6	68.2	38.1	33	11.87	29.37	100	60	P	H
		5661.36	55.92	-20.71	76.63	40.23	33.17	11.9	29.38	100	60	P	H
		5715.64	54.92	-54.66	109.58	38.88	33.49	11.94	29.39	100	60	P	H
		5721.54	55.18	-59.13	114.31	39.09	33.53	11.95	29.39	100	60	P	H
	*	5885	113.57	-	-	96.61	34.16	12.23	29.43	100	60	P	H
	*	5885	106.12	-	-	89.16	34.16	12.23	29.43	100	60	A	H
		5895	88.15	-22.05	110.2	71.16	34.18	12.24	29.43	100	60	P	H
		5968	56.91	-31.29	88.2	39.8	34.13	12.42	29.44	100	60	P	H
		5895	79.54	-10.66	90.2	62.55	34.18	12.24	29.43	100	60	A	H
802.11be		5926.25	48.48	-19.72	68.2	31.4	34.2	12.32	29.44	100	60	A	H
(EHT20)													H
Partial 26/8													H
CH 177		5611.21	54.86	-13.34	68.2	39.43	32.94	11.86	29.37	100	145	P	V
5885MHz		5684.665	55.09	-38.8	93.89	39.25	33.31	11.92	29.39	100	145	P	V
		5719.475	56.18	-54.47	110.65	40.1	33.52	11.95	29.39	100	145	P	V
		5722.72	55.39	-61.61	117	39.29	33.54	11.95	29.39	100	145	P	V
	*	5885	105.67	-	-	88.67	34.18	12.25	29.43	100	145	P	V
	*	5885	98.42	-	-	81.42	34.18	12.25	29.43	100	145	A	V
		5895	95.32	-14.88	110.2	78.33	34.18	12.24	29.43	100	145	P	V
		5927.25	55.79	-32.41	88.2	38.71	34.2	12.32	29.44	100	145	P	V
		5895	69.41	-20.79	90.2	52.42	34.18	12.24	29.43	100	145	A	V
		5927	47.23	-20.97	68.2	30.15	34.2	12.32	29.44	100	145	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT20)_Partial 52 (Band Edge @ 3m)

WIFI Ant. 3+4	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)
802.11be (EHT20) Partial 52/37 CH 169 5845MHz		5636.58	54.17	-14.03	68.2	38.62	33.05	11.88	29.38	100	64	P	H
		5687.615	54.19	-41.88	96.07	38.33	33.33	11.92	29.39	100	64	P	H
		5717.41	55.37	-54.71	110.08	39.32	33.5	11.94	29.39	100	64	P	H
		5723.015	53.68	-64	117.68	37.58	33.54	11.95	29.39	100	64	P	H
	*	5845	112.15	-	-	95.46	33.99	12.12	29.42	100	64	P	H
	*	5845	106.39	-	-	89.7	33.99	12.12	29.42	100	64	A	H
		5917	56.63	-37.43	94.06	39.56	34.2	12.3	29.43	100	64	P	H
		5955	56.23	-31.97	88.2	39.1	34.18	12.39	29.44	100	64	P	H
		5895	47.98	-42.22	90.2	30.99	34.18	12.24	29.43	100	64	A	H
		5937.75	47.93	-20.27	68.2	30.82	34.2	12.35	29.44	100	64	A	H
		5648.085	54.02	-14.18	68.2	38.42	33.09	11.89	29.38	100	117	P	V
		5682.895	54.67	-37.91	92.58	38.84	33.3	11.92	29.39	100	117	P	V
		5712.985	53.11	-55.73	108.84	37.08	33.48	11.94	29.39	100	117	P	V
		5723.015	52.63	-65.05	117.68	36.53	33.54	11.95	29.39	100	117	P	V
	*	5845	108.17	-	-	91.48	33.99	12.12	29.42	100	117	P	V
	*	5845	103.08	-	-	86.39	33.99	12.12	29.42	100	117	A	V
		5911	55.4	-43.05	98.45	38.35	34.2	12.28	29.43	100	117	P	V
		5978.5	56.53	-31.67	88.2	39.44	34.09	12.45	29.45	100	117	P	V
		5922.75	47.39	-22.46	69.85	30.31	34.2	12.31	29.43	100	117	A	V
		5955.25	47.47	-20.73	68.2	30.34	34.18	12.39	29.44	100	117	A	V

WIFI Ant. 3+4	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)
802.11be (EHT20) Partial 52/40 CH 177 5885MHz		5630.09	53.46	-14.74	68.2	37.95	33.02	11.87	29.38	100	63	P	H
		5690.86	54.2	-44.26	98.46	38.32	33.35	11.92	29.39	100	63	P	H
		5716.23	53.54	-56.21	109.75	37.49	33.5	11.94	29.39	100	63	P	H
		5724.195	53.85	-66.51	120.36	37.74	33.55	11.95	29.39	100	63	P	H
	*	5885	112.3	-	-	95.37	34.14	12.22	29.43	100	63	P	H
	*	5885	106.83	-	-	89.9	34.14	12.22	29.43	100	63	A	H
		5895	89.08	-21.12	110.2	72.09	34.18	12.24	29.43	100	63	P	H
		5930.25	60.28	-27.92	88.2	43.19	34.2	12.33	29.44	100	63	P	H
		5895	80.5	-9.7	90.2	63.51	34.18	12.24	29.43	100	63	A	H
		5925	49.68	-18.52	68.2	32.6	34.2	12.32	29.44	100	63	A	H
		5632.155	53.7	-14.5	68.2	38.17	33.03	11.88	29.38	100	121	P	V
		5659	54.18	-20.7	74.88	38.51	33.15	11.9	29.38	100	121	P	V
		5716.525	53.69	-56.14	109.83	37.64	33.5	11.94	29.39	100	121	P	V
		5724.195	53.3	-67.06	120.36	37.19	33.55	11.95	29.39	100	121	P	V
	*	5885	110	-	-	93.07	34.14	12.22	29.43	100	121	P	V
	*	5885	103.9	-	-	86.97	34.14	12.22	29.43	100	121	A	V
		5895	85.02	-25.18	110.2	68.03	34.18	12.24	29.43	100	121	P	V
		5932	58.41	-29.79	88.2	41.32	34.2	12.33	29.44	100	121	P	V
		5895	76.15	-14.05	90.2	59.16	34.18	12.24	29.43	100	121	A	V
		5925	47.21	-20.99	68.2	30.13	34.2	12.32	29.44	100	121	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT20)_Partial 106 (Band Edge @ 3m)

WIFI Ant. 3+4	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)
802.11be (EHT20) Partial 106/53 CH 169 5845MHz		5628.025	54.64	-13.56	68.2	39.14	33.01	11.87	29.38	100	63	P	H
		5664.9	54.47	-24.79	79.26	38.76	33.19	11.9	29.38	100	63	P	H
		5716.525	55.31	-54.52	109.83	39.26	33.5	11.94	29.39	100	63	P	H
		5720.95	55.42	-57.55	112.97	39.33	33.53	11.95	29.39	100	63	P	H
	*	5845	113.34	-	-	96.65	33.99	12.12	29.42	100	63	P	H
	*	5845	106.49	-	-	89.8	33.99	12.12	29.42	100	63	A	H
		5899.75	57.19	-49.52	106.71	40.17	34.2	12.25	29.43	100	63	P	H
		5933.5	55.98	-32.22	88.2	38.88	34.2	12.34	29.44	100	63	P	H
		5898.75	49.82	-37.62	87.44	32.81	34.19	12.25	29.43	100	63	A	H
		5935.25	48.26	-19.94	68.2	31.16	34.2	12.34	29.44	100	63	A	H
		5600.295	54.13	-14.07	68.2	38.75	32.9	11.85	29.37	100	116	P	V
		5694.695	54.18	-47.11	101.29	38.27	33.37	11.93	29.39	100	116	P	V
		5700.005	52.86	-52.34	105.2	36.92	33.4	11.93	29.39	100	116	P	V
		5723.605	53.24	-65.78	119.02	37.14	33.54	11.95	29.39	100	116	P	V
	*	5845	108.52	-	-	91.83	33.99	12.12	29.42	100	116	P	V
	*	5845	102.62	-	-	85.93	33.99	12.12	29.42	100	116	A	V
		5921.75	56.44	-34.14	90.58	39.36	34.2	12.31	29.43	100	116	P	V
		5955.75	56.36	-31.84	88.2	39.23	34.18	12.39	29.44	100	116	P	V
		5896.75	47.76	-41.15	88.91	30.75	34.19	12.25	29.43	100	116	A	V
		5949.5	47.66	-20.54	68.2	30.52	34.2	12.38	29.44	100	116	A	V

WIFI Ant. 3+4	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)
802.11be (EHT20) Partial 106/54 CH 177 5885MHz		5635.695	54.49	-13.71	68.2	38.95	33.04	11.88	29.38	100	66	P	H
		5650.15	56.31	-12	68.31	40.7	33.1	11.89	29.38	100	66	P	H
		5714.165	53.89	-55.28	109.17	37.86	33.48	11.94	29.39	100	66	P	H
		5720.36	53.67	-57.95	111.62	37.59	33.52	11.95	29.39	100	66	P	H
	*	5885	113.96	-	-	97.03	34.14	12.22	29.43	100	66	P	H
	*	5885	106.05	-	-	89.12	34.14	12.22	29.43	100	66	A	H
		5895	92.33	-17.87	110.2	75.34	34.18	12.24	29.43	100	66	P	H
		5928.75	60.51	-27.69	88.2	43.42	34.2	12.33	29.44	100	66	P	H
		5895	83.34	-6.86	90.2	66.35	34.18	12.24	29.43	100	66	A	H
		5925.5	53.73	-14.47	68.2	36.65	34.2	12.32	29.44	100	66	A	H
		5633.04	53.28	-14.92	68.2	37.75	33.03	11.88	29.38	100	117	P	V
		5699.12	54.29	-50.26	104.55	38.36	33.39	11.93	29.39	100	117	P	V
		5708.855	53.46	-54.22	107.68	37.46	33.45	11.94	29.39	100	117	P	V
		5720.95	52.56	-60.41	112.97	36.47	33.53	11.95	29.39	100	117	P	V
	*	5885	109.49	-	-	92.56	34.14	12.22	29.43	100	117	P	V
	*	5885	103.56	-	-	86.63	34.14	12.22	29.43	100	117	A	V
		5895	92.33	-17.87	110.2	75.34	34.18	12.24	29.43	100	117	P	V
		5936.75	57.31	-30.89	88.2	40.2	34.2	12.35	29.44	100	117	P	V
		5895	79.8	-10.4	90.2	62.81	34.18	12.24	29.43	100	117	A	V
		5925.5	51.56	-16.64	68.2	34.48	34.2	12.32	29.44	100	117	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT40)_Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11be (EHT40) Full CH 167 5835MHz		5642.775	54.61	-13.59	68.2	39.04	33.07	11.88	29.38	100	324	P	H
		5679.65	55.87	-34.31	90.18	40.07	33.28	11.91	29.39	100	324	P	H
		5714.755	58.5	-50.83	109.33	42.46	33.49	11.94	29.39	100	324	P	H
		5723.31	57.99	-60.36	118.35	41.89	33.54	11.95	29.39	100	324	P	H
	*	5835	-	-	68.2	91.46	33.97	12.1	29.42	100	324	P	H
	*	5835	-	-	54	83.73	33.97	12.1	29.42	100	324	A	H
		5895	67.36	-42.84	110.2	50.37	34.18	12.24	29.43	100	324	P	H
		5925.75	63.23	-24.97	88.2	46.15	34.2	12.32	29.44	100	324	P	H
		5895.75	59.02	-30.63	89.65	42.03	34.18	12.24	29.43	100	324	A	H
		5925.5	53.36	-14.84	68.2	36.28	34.2	12.32	29.44	100	324	A	H
													H
													H
		5601.475	55.1	-13.1	68.2	39.71	32.91	11.85	29.37	358	119	P	V
		5695.285	55.17	-46.55	101.72	39.26	33.37	11.93	29.39	358	119	P	V
		5705.905	55.34	-51.52	106.86	39.36	33.44	11.93	29.39	358	119	P	V
		5722.425	55.03	-61.3	116.33	38.94	33.53	11.95	29.39	358	119	P	V
	*	5835	-	-	68.2	88.48	33.97	12.1	29.42	358	119	P	V
	*	5835	-	-	54	81.69	33.97	12.1	29.42	358	119	A	V
		5899.75	62.68	-44.03	106.71	45.66	34.2	12.25	29.43	358	119	P	V
		5933.5	58.07	-30.13	88.2	40.97	34.2	12.34	29.44	358	119	P	V
		5896.25	53.2	-36.08	89.28	36.19	34.19	12.25	29.43	358	119	A	V
		5927	49.09	-19.11	68.2	32.01	34.2	12.32	29.44	358	119	A	V
													V
													V

WIFI Ant. 3+4	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)
802.11be (EHT40) Full CH 175 5875MHz		5605.015	54.35	-13.85	68.2	38.95	32.92	11.85	29.37	100	324	P	H
		5690.565	55.01	-43.23	98.24	39.14	33.34	11.92	29.39	100	324	P	H
		5714.46	55.49	-53.76	109.25	39.45	33.49	11.94	29.39	100	324	P	H
		5723.31	55.49	-62.86	118.35	39.39	33.54	11.95	29.39	100	324	P	H
	*	5875	-	-	68.2	91.46	34.1	12.19	29.43	100	324	P	H
	*	5875	-	-	54	85.1	34.1	12.19	29.43	100	324	A	H
		5895	91.04	-19.16	110.2	74.05	34.18	12.24	29.43	100	324	P	H
		5926.75	74.99	-13.21	88.2	57.91	34.2	12.32	29.44	100	324	P	H
		5895	81.25	-8.95	90.2	64.26	34.18	12.24	29.43	100	324	A	H
		5926.75	65.27	-2.93	68.2	48.19	34.2	12.32	29.44	100	324	A	H
													H
													H
		5639.825	54.59	-13.61	68.2	39.03	33.06	11.88	29.38	299	108	P	V
		5658.705	54.32	-20.35	74.67	38.65	33.15	11.9	29.38	299	108	P	V
		5715.345	56.39	-53.11	109.5	40.35	33.49	11.94	29.39	299	108	P	V
		5723.31	54.54	-63.81	118.35	38.44	33.54	11.95	29.39	299	108	P	V
	*	5875	-	-	68.2	88.39	34.1	12.19	29.43	299	108	P	V
	*	5875	-	-	54	81.45	34.1	12.19	29.43	299	108	A	V
		5896.5	85.09	-24.01	109.1	68.08	34.19	12.25	29.43	299	108	P	V
		5925.25	72.02	-16.18	88.2	54.94	34.2	12.32	29.44	299	108	P	V
		5895	77.52	-12.68	90.2	60.53	34.18	12.24	29.43	299	108	A	V
		5925.75	62.48	-5.72	68.2	45.4	34.2	12.32	29.44	299	108	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT40)_Full (Harmonic @ 3m)

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)
802.11be (EHT40) Full CH 167 5835MHz		11670	46.96	-27.04	74	56.56	38.64	17.62	65.86	-	-	P	H
		17505	48.97	-19.23	68.2	53.38	38.84	22.07	65.32	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11670	46.73	-27.27	74	56.33	38.64	17.62	65.86	-	-	P	V
		17505	48.98	-19.22	68.2	53.39	38.84	22.07	65.32	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 3+4	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)
802.11be (EHT40) Full CH 175 5875MHz		11750	50.24	-23.76	74	59.75	38.7	17.69	65.9	-	-		H
		11752	46.79	-27.21	74	56.3	38.7	17.69	65.9	-	-		H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11750	47.06	-26.94	74	56.57	38.7	17.69	65.9	-	-		V
		17625	50.07	-18.13	68.2	53.73	39.45	22.13	65.24	-	-		V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT80)_Full (Band Edge @ 3m)

WIFI Ant. 3+4	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)
802.11be (EHT80) Full CH 171 5855MHz		5631.86	56.98	-11.22	68.2	41.45	33.03	11.88	29.38	100	324	P	H
		5691.745	61.51	-37.6	99.11	45.63	33.35	11.92	29.39	100	324	P	H
		5710.625	62.54	-45.64	108.18	46.53	33.46	11.94	29.39	100	324	P	H
		5720.95	62.86	-50.11	112.97	46.77	33.53	11.95	29.39	100	324	P	H
	*	5855	103.73	-	-	86.99	34.02	12.14	29.42	100	324	P	H
	*	5855	96.18	-	-	79.44	34.02	12.14	29.42	100	324	A	H
		5895	81.98	-28.22	110.2	64.99	34.18	12.24	29.43	100	324	P	H
		5928	72.49	-15.71	88.2	55.41	34.2	12.32	29.44	100	324	P	H
		5895	72.35	-17.85	90.2	55.36	34.18	12.24	29.43	100	324	A	H
		5925.5	65.37	-2.83	68.2	48.29	34.2	12.32	29.44	100	324	A	H
													H
													H
		5641.89	57.08	-11.12	68.2	41.51	33.07	11.88	29.38	363	117	P	V
		5691.745	58.03	-41.08	99.11	42.15	33.35	11.92	29.39	363	117	P	V
		5716.23	60.01	-49.74	109.75	43.96	33.5	11.94	29.39	363	117	P	V
		5724.49	60.36	-60.68	121.04	44.25	33.55	11.95	29.39	363	117	P	V
	*	5855	97.74	-	-	81	34.02	12.14	29.42	363	117	P	V
	*	5855	90.77	-	-	74.03	34.02	12.14	29.42	363	117	A	V
		5895	83.48	-26.72	110.2	66.49	34.18	12.24	29.43	363	117	P	V
		5926.5	71.8	-16.4	88.2	54.72	34.2	12.32	29.44	363	117	P	V
		5895	71.05	-19.15	90.2	54.06	34.18	12.24	29.43	363	117	A	V
		5926.75	63.38	-4.82	68.2	46.3	34.2	12.32	29.44	363	117	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT80)_Full (Harmonic @ 3m)

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)
802.11be (EHT80) Full CH 171 5855MHz		11710	47.55	-26.45	74	57.08	38.7	17.65	65.88	-	-	P	H
		17565	50.54	-17.66	68.2	54.46	39.26	22.1	65.28	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11710	46.82	-27.18	74	56.35	38.7	17.65	65.88	-	-	P	V
		17565	49.89	-18.31	68.2	53.81	39.26	22.1	65.28	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT160) Full (Band Edge @ 3m)

WIFI Ant. 3+4	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)
802.11be (EHT160) Full CH 163 5815MHz		5621.24	65.89	-2.31	68.2	50.41	32.98	11.87	29.37	100	324	P	H
		5696.17	71.56	-30.82	102.38	55.64	33.38	11.93	29.39	100	324	P	H
		5718.295	73.23	-37.09	110.32	57.17	33.51	11.94	29.39	100	324	P	H
		5723.605	73.17	-45.85	119.02	57.07	33.54	11.95	29.39	100	324	P	H
	*	5815	97.88	-	-	81.31	33.93	12.05	29.41	100	324	P	H
	*	5815	90.58	-	-	74.01	33.93	12.05	29.41	100	324	A	H
		5896.5	75.51	-33.59	109.1	58.5	34.19	12.25	29.43	100	324	P	H
		5941.5	75.24	-12.96	88.2	58.12	34.2	12.36	29.44	100	324	P	H
		5895	69.69	-20.51	90.2	52.7	34.18	12.24	29.43	100	324	A	H
		5947.25	65.03	-3.17	68.2	47.9	34.2	12.37	29.44	100	324	A	H
		5638.94	64.97	-3.23	68.2	49.41	33.06	11.88	29.38	400	123	P	V
		5698.53	71.1	-33.02	104.12	55.17	33.39	11.93	29.39	400	123	P	V
		5720.065	69.75	-41.2	110.95	53.67	33.52	11.95	29.39	400	123	P	V
		5720.065	69.75	-41.2	110.95	53.67	33.52	11.95	29.39	400	123	P	V
	*	5815	96.63	-	-	80.06	33.93	12.05	29.41	400	123	P	V
	*	5815	87.59	-	-	71.02	33.93	12.05	29.41	400	123	A	V
		5895.25	74.39	-35.63	110.02	57.4	34.18	12.24	29.43	400	123	P	V
		5953	73.64	-14.56	88.2	56.51	34.19	12.38	29.44	400	123	P	V
		5895	63.55	-26.65	90.2	46.56	34.18	12.24	29.43	400	123	A	V
		5947.5	63.45	-4.75	68.2	46.32	34.2	12.37	29.44	400	123	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT160) Full (Harmonic @ 3m)

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)
802.11be (EHT160) Full CH 163 5815MHz		11630	47.46	-26.54	74	57.03	38.68	17.59	65.84	-	-	P	H
		17445	50.16	-18.04	68.2	54.8	38.7	22.04	65.38	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11630	47.32	-26.68	74	56.89	38.68	17.59	65.84	-	-	P	V
		17445	50.11	-18.09	68.2	54.75	38.7	22.04	65.38	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Emission above 18GHz

WIFI 802.11be (EHT20) Full (SHF @ 1m)

WIFI Ant. 3+4	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)
802.11be (EHT20) Full SHF		39450	47.33	-26.67	74	58.39	45.8	-0.33	56.53	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		39186	47.76	-26.24	74	59.8	45.1	-0.45	56.69	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Emission below 1GHz

WIFI 802.11be (EHT20) Full (LF @ 3m)

WIFI Ant. 3+4	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)
802.11be (EHT20) Full LF		30	21.95	-18.05	40	29.24	24.4	0.75	32.44	-	-	P	H
		95.61	36.91	-6.59	43.5	52.56	15.38	1.39	32.42	-	-	P	H
		179.85	30.86	-12.64	43.5	46.22	15.05	1.93	32.34	-	-	P	H
		481.3	25.29	-20.71	46	31.08	23.62	3.23	32.64	-	-	P	H
		744.5	31.25	-14.75	46	31.36	28.16	4.27	32.54	-	-	P	H
		962.9	34.39	-19.61	54	29.87	31.01	4.9	31.39	-	-	P	H
													H
													H
													H
													H
													H
													H
		35.4	25.03	-14.97	40	34.71	21.97	0.81	32.46	-	-	P	V
		95.07	30.89	-12.61	43.5	46.66	15.27	1.38	32.42	-	-	P	V
		179.85	29.67	-13.83	43.5	45.03	15.05	1.93	32.34	-	-	P	V
		525.4	25.27	-20.73	46	30.51	24.02	3.36	32.62	-	-	P	V
		738.9	30.76	-15.24	46	31.09	27.98	4.26	32.57	-	-	P	V
		947.5	33.52	-12.48	46	29.5	30.72	4.84	31.54	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **Margin limit** line.
P/A	**P**eak or **A**v
H/V	**H**orizontal or **V**ertical

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.				Limit	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 CH 169 5845MHz		5945	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		5945	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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 Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5945MHz:

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 Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 5945MHz:

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 Limit(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

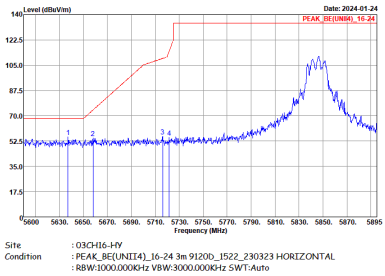
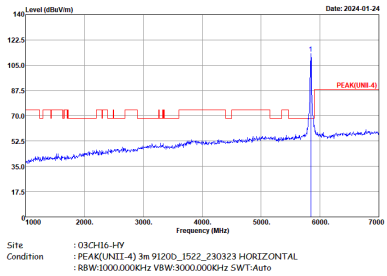
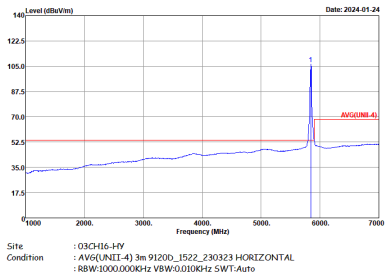
Test Engineer :	Jack Tsai, Bill Chang, Gary Guo and Steven Wu	**Temperature :**	18.2~20.2°C
		Relative Humidity :	54.2~56.1%

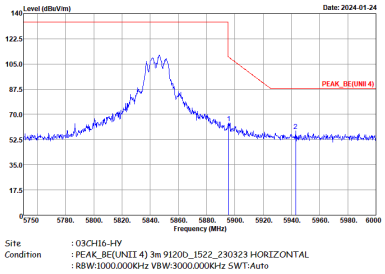
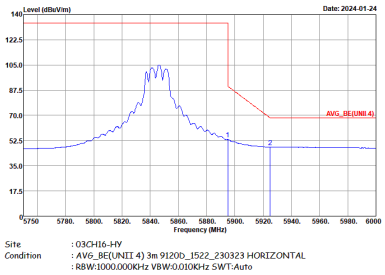
Note symbol

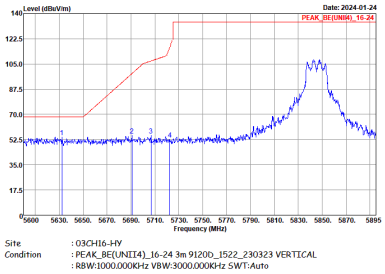
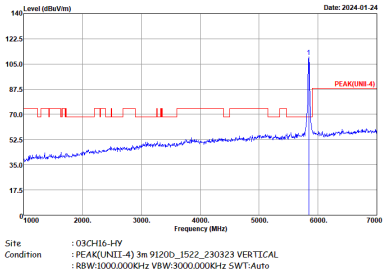
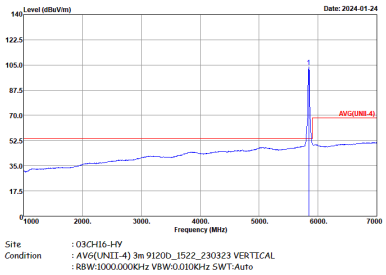
-L	**Low channel location**
-R	**High channel location**

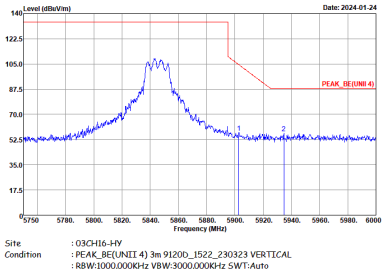
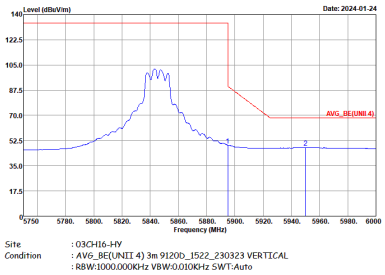
UNII 4 - 5850~5895MHz

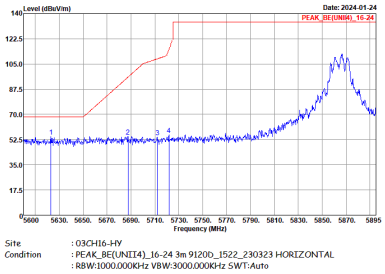
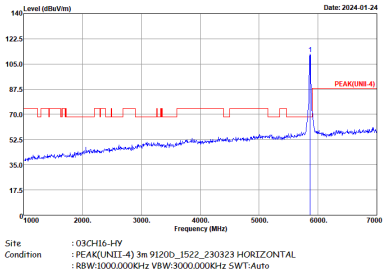
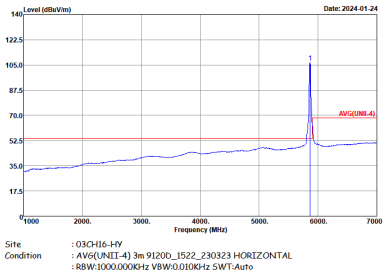
WIFI 802.11a (Band Edge @ 3m)

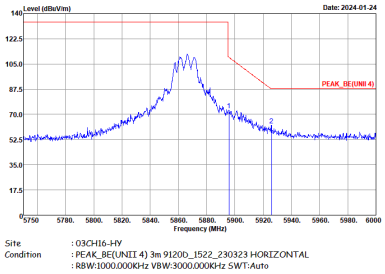
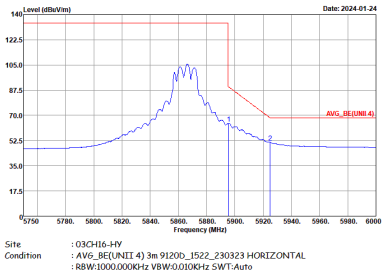
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

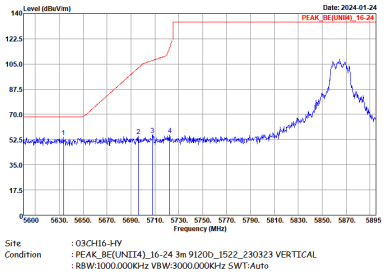
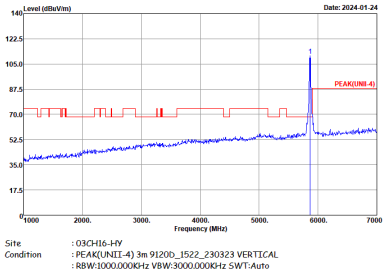
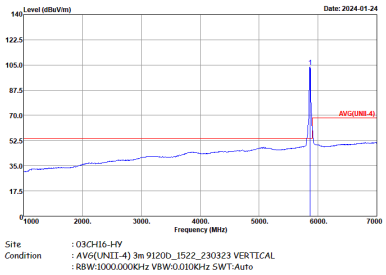
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

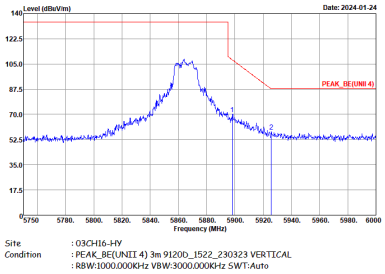
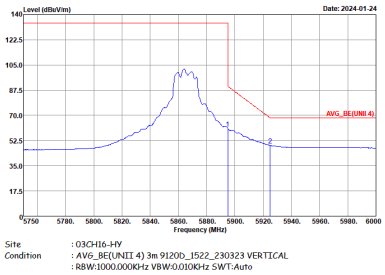
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

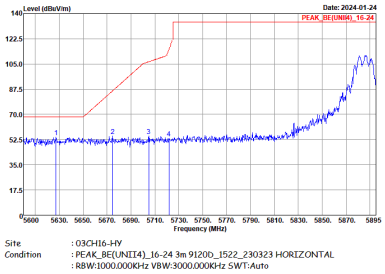
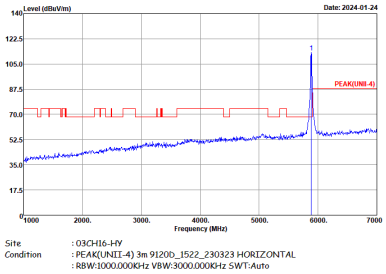
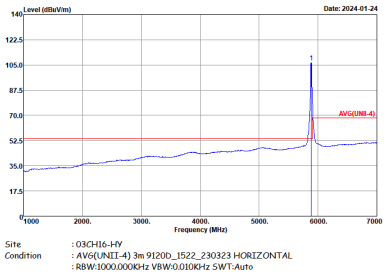
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

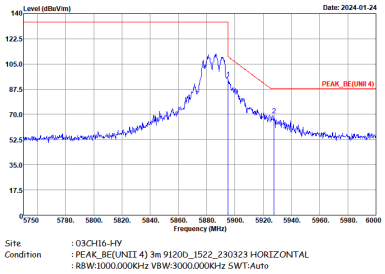
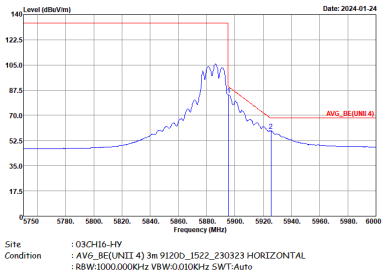
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

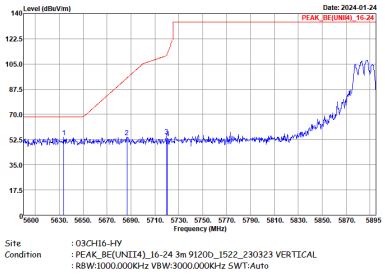
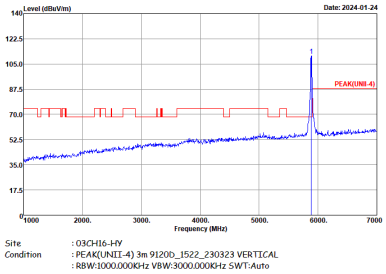
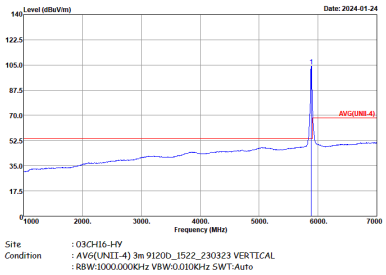
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

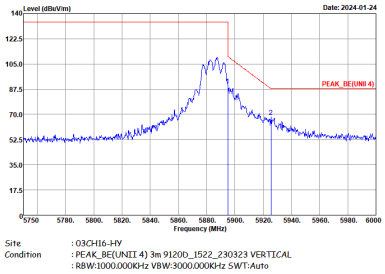
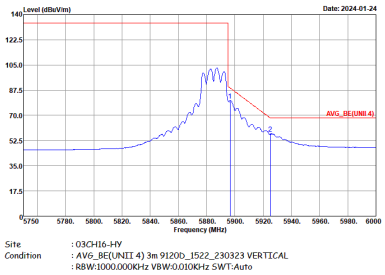
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

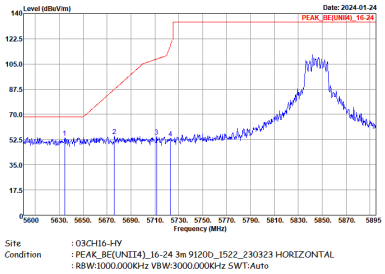
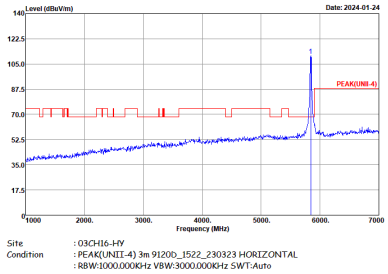
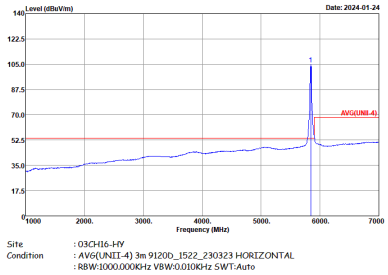
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

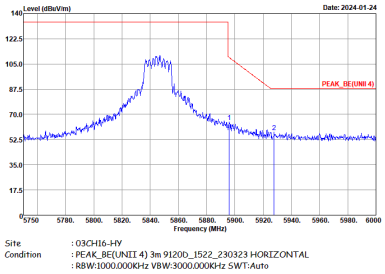
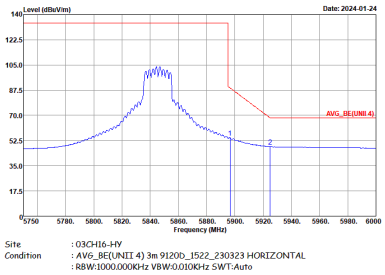
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

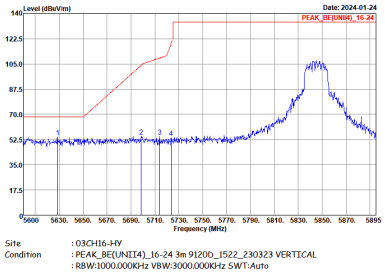
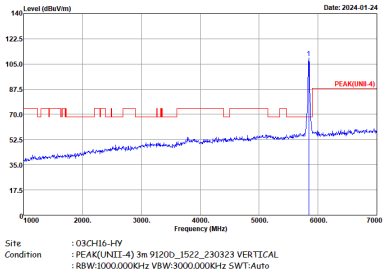
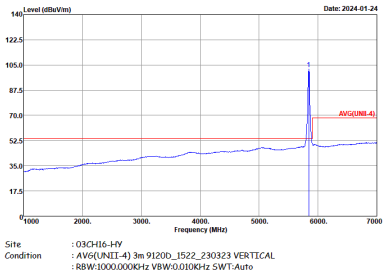
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

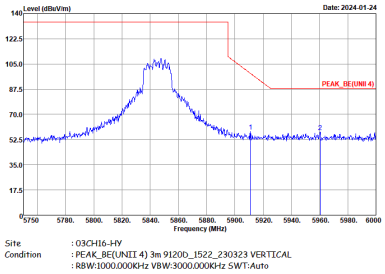
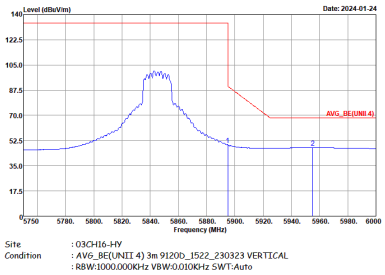
UNII 4 - 5850~5895MHz

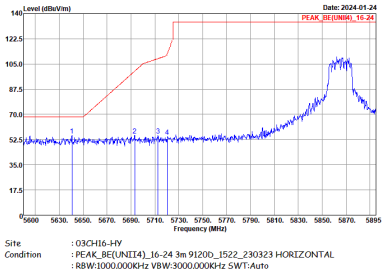
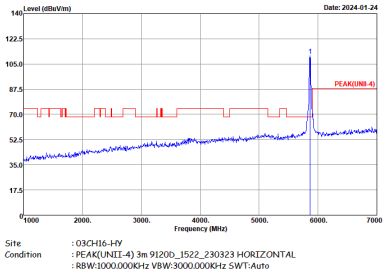
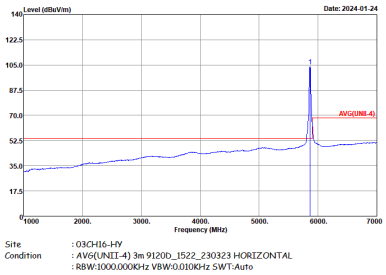
WIFI 802.11be (EHT20) Full (Band Edge @ 3m)

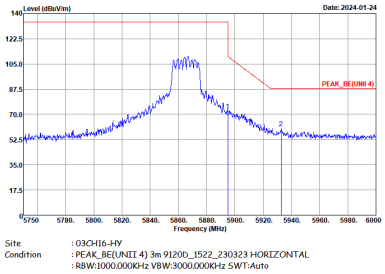
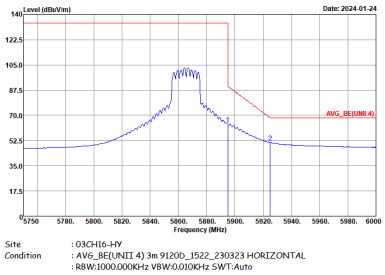
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH169 5845MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

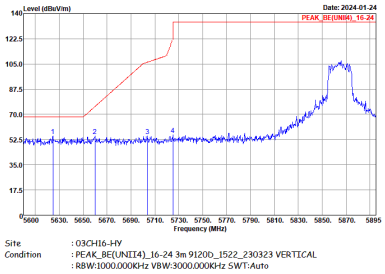
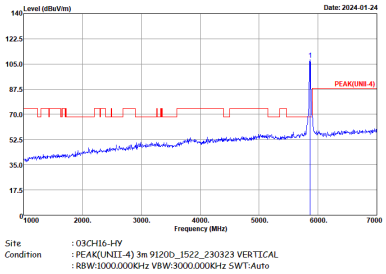
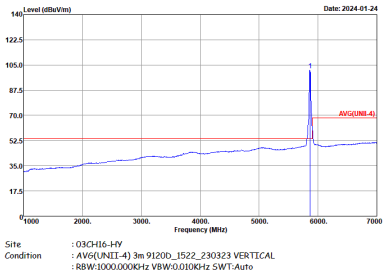
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH169 5845MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

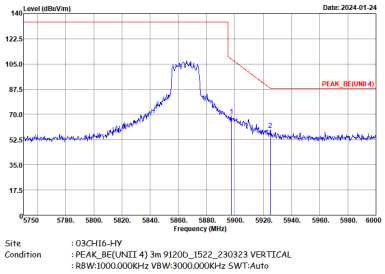
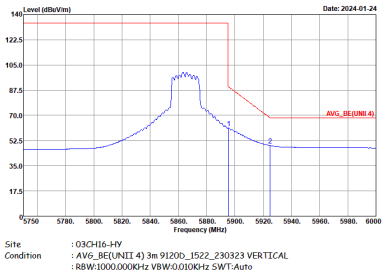
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH169 5845MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

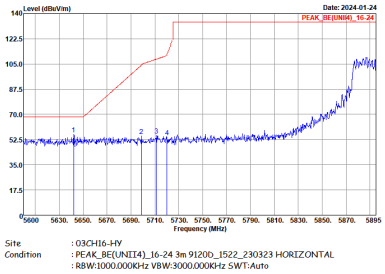
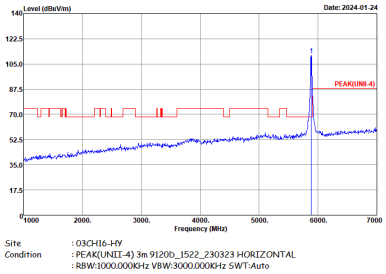
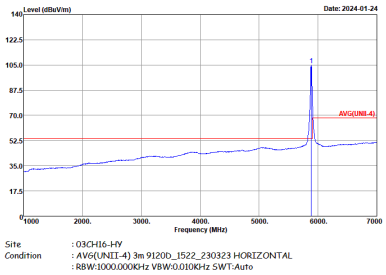
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH169 5845MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

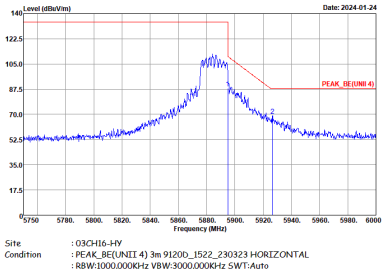
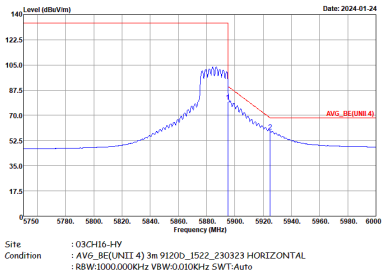
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH173 5865MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

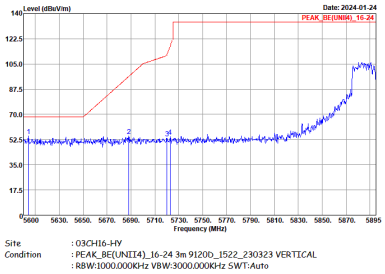
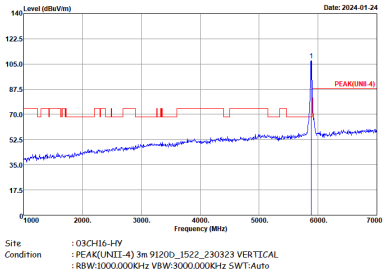
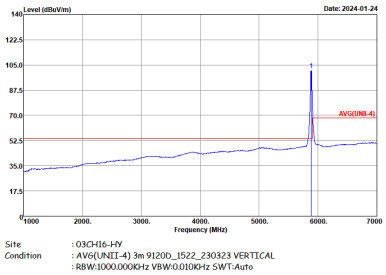
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH173 5865MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

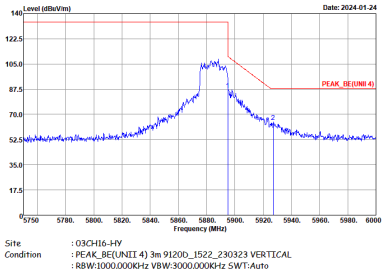
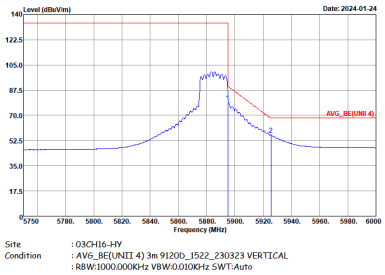
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH173 5865MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH173 5865MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH177 5885MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

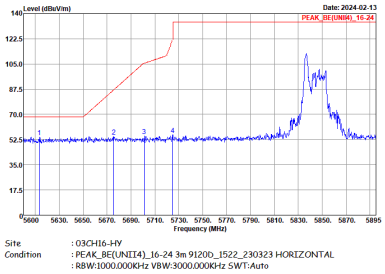
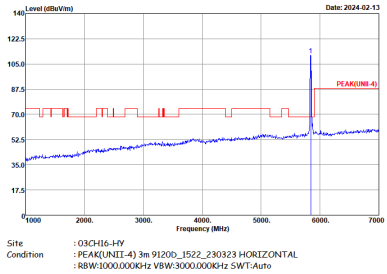
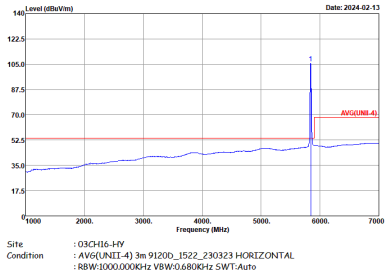
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH177 5885MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

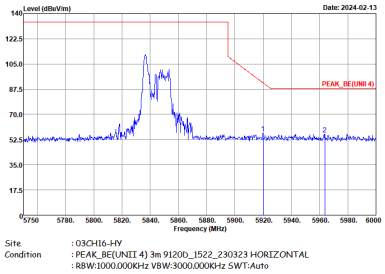
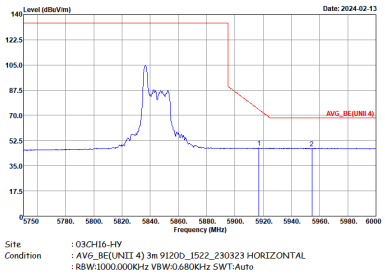
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH177 5885MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

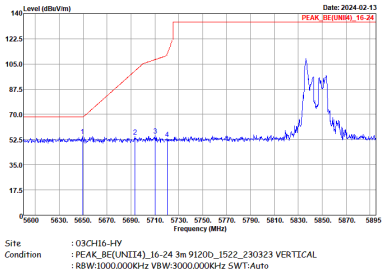
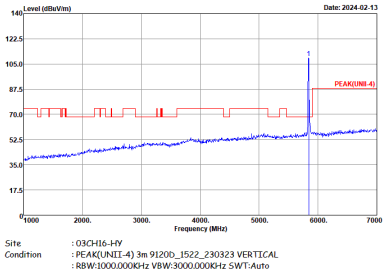
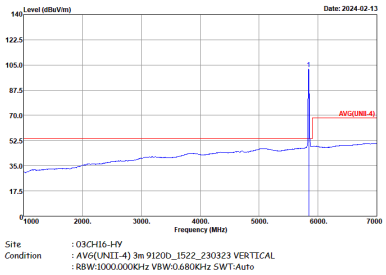
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Full CH177 5885MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

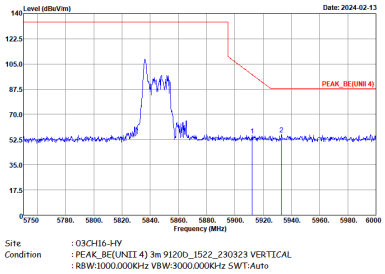
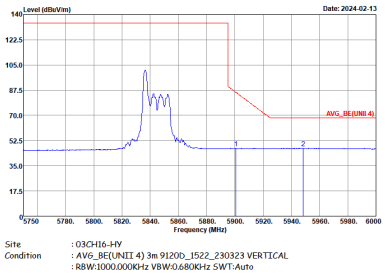
UNII 4 - 5850~5895MHz

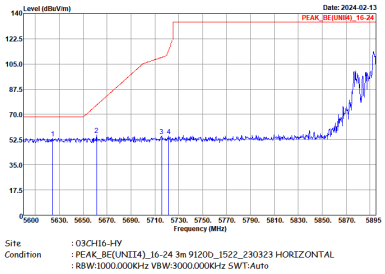
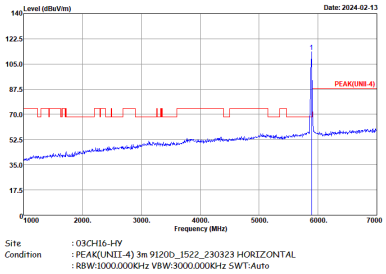
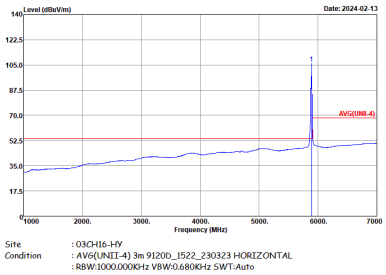
WIFI 802.11be (EHT20) Partial 26 (Band Edge @ 3m)

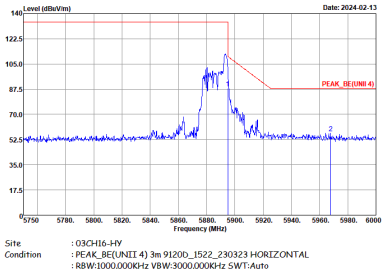
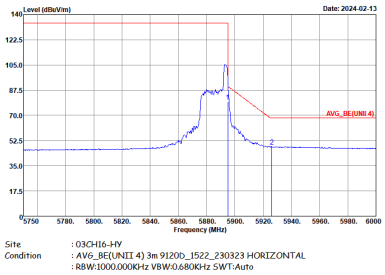
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 26/0 CH169 5845MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

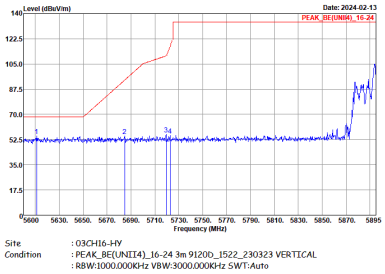
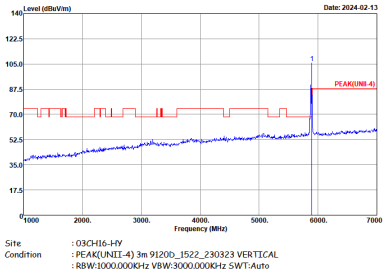
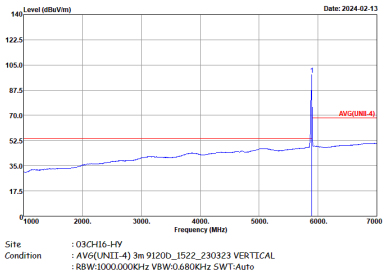
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 26/0 CH169 5845MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

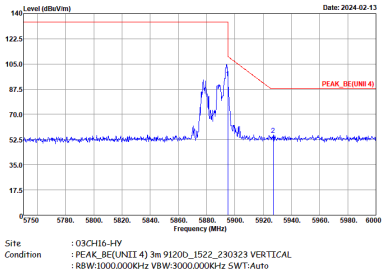
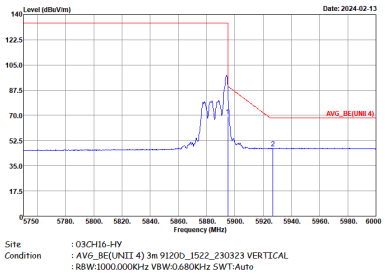
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 26/0 CH169 5845MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 26/0 CH169 5845MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 26/8 CH177 5885MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

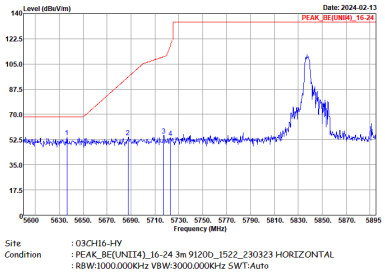
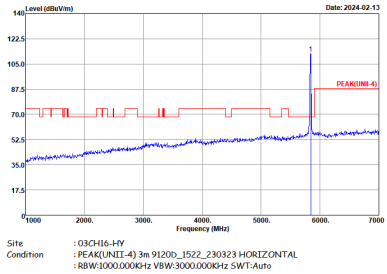
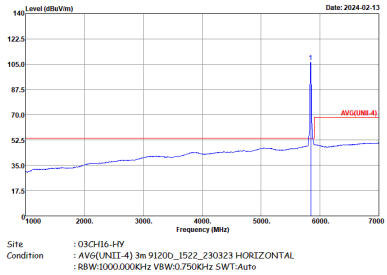
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 26/8 CH177 5885MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

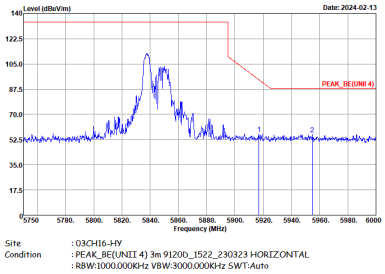
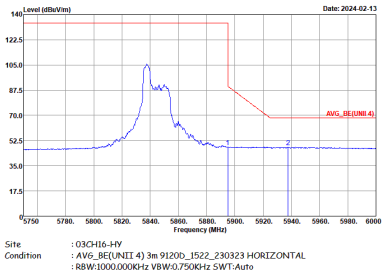
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 26/8 CH177 5885MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

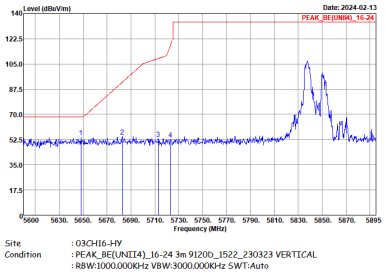
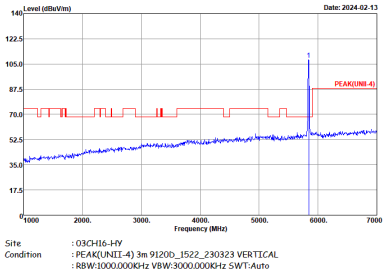
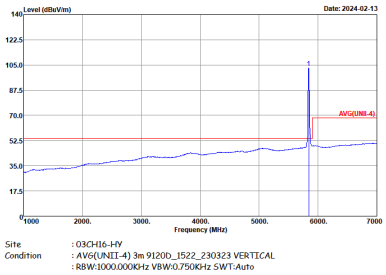
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 26/8 CH177 5885MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

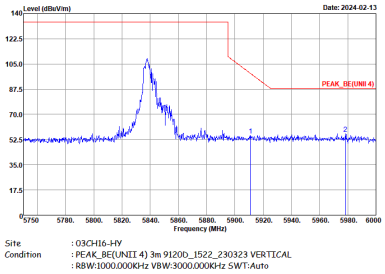
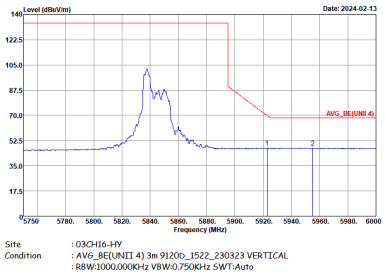
UNII 4 - 5850~5895MHz

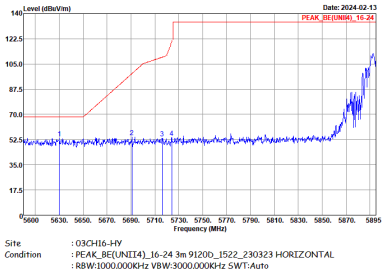
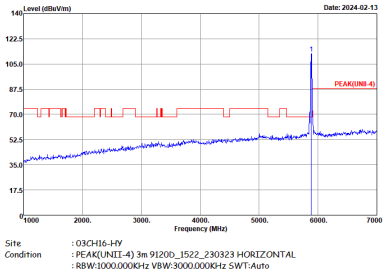
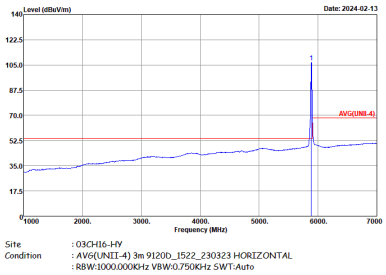
WIFI 802.11be (EHT20) Partial 52 (Band Edge @ 3m)

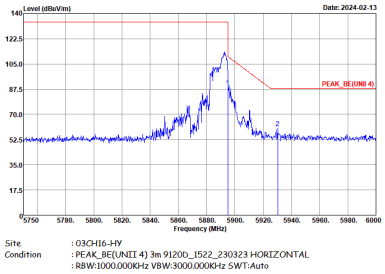
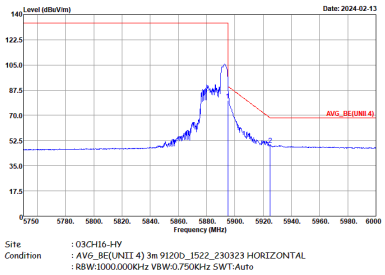
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 52/37 CH169 5845MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

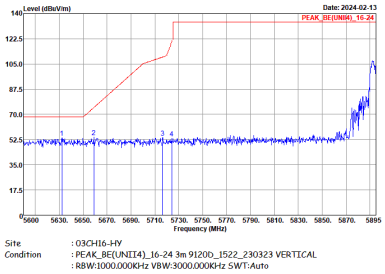
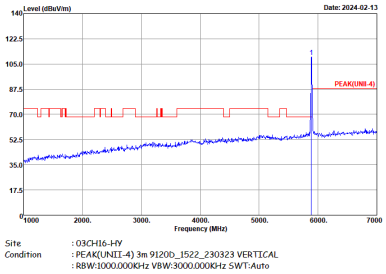
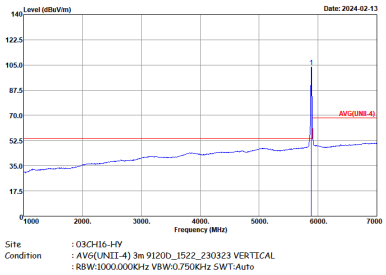
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 52/37 CH169 5845MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

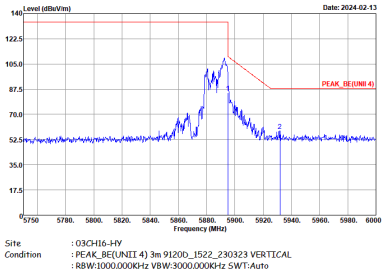
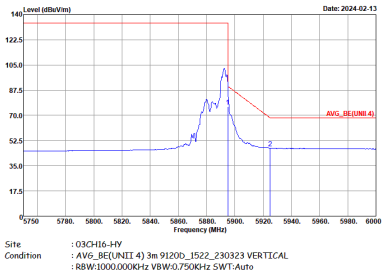
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 52/37 CH169 5845MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 52/37 CH169 5845MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 52/40 CH177 5885MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

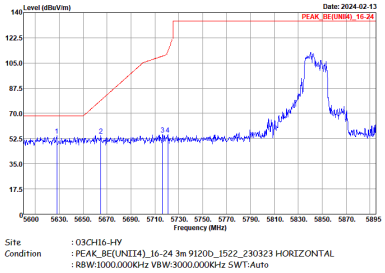
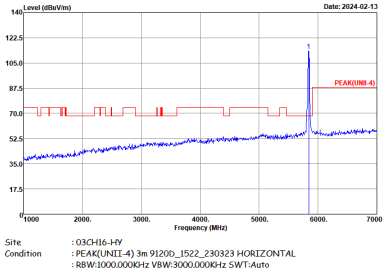
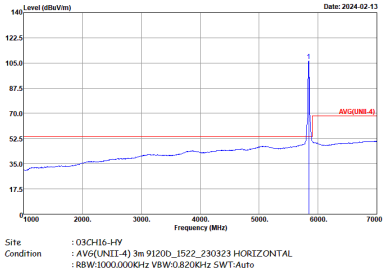
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 52/40 CH177 5885MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

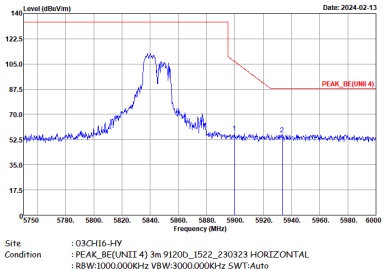
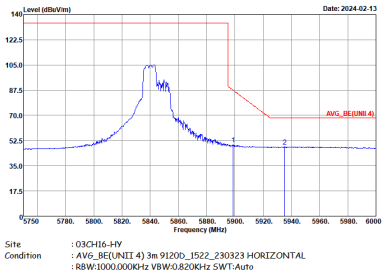
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 52/40 CH177 5885MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

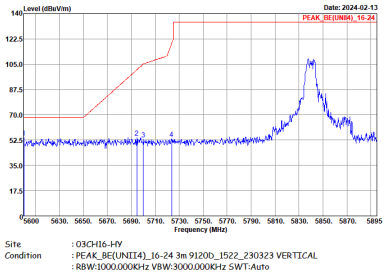
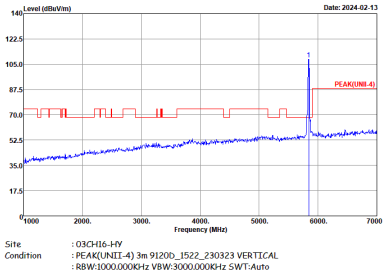
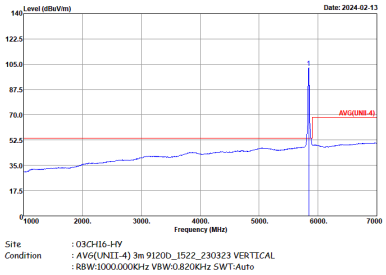
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 52/40 CH177 5885MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

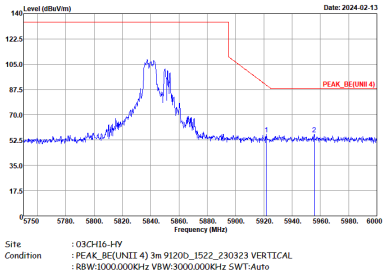
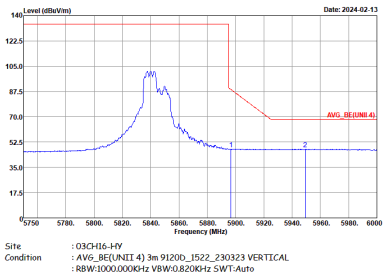
UNII 4 5850~5895MHz

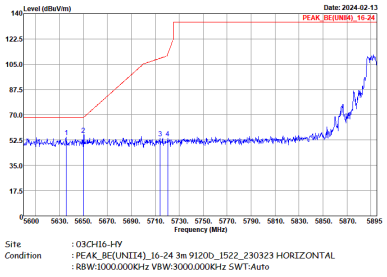
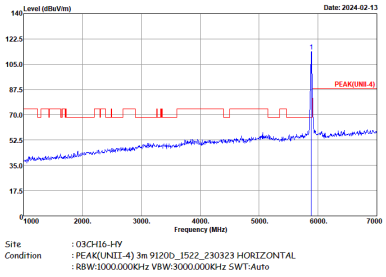
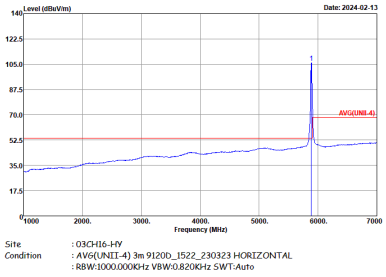
WIFI 802.11be (EHT20) Partial 106 (Band Edge @ 3m)

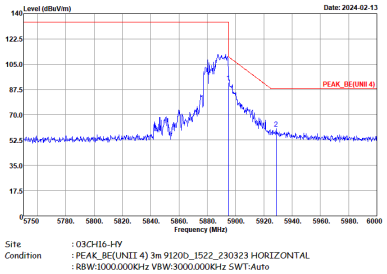
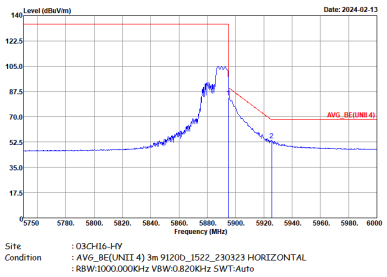
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 106/53 CH169 5845MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

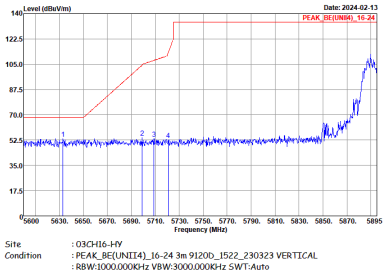
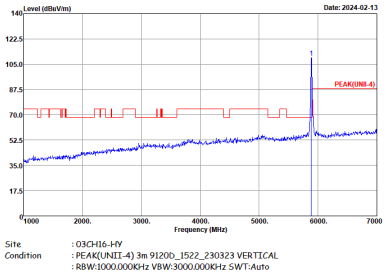
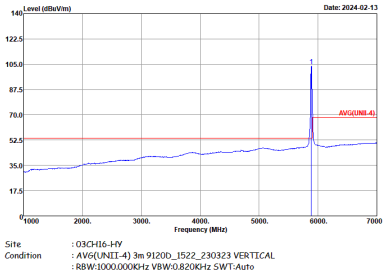
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 106/53 CH169 5845MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

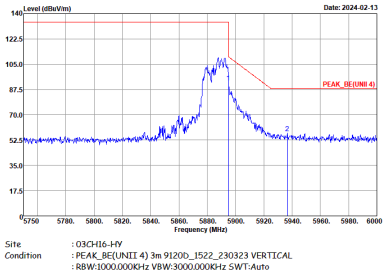
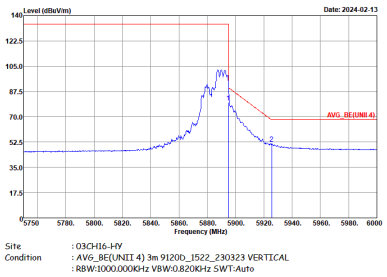
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 106/53 CH169 5845MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 106/53 CH169 5845MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 106/54 CH177 5885MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

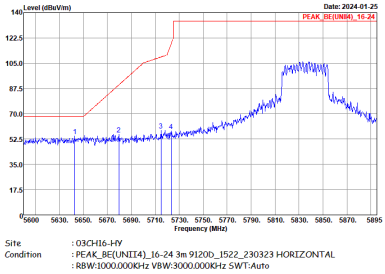
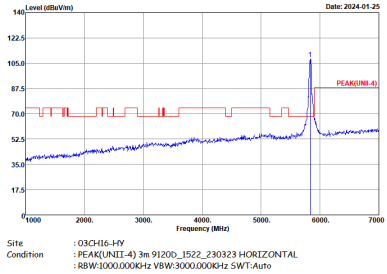
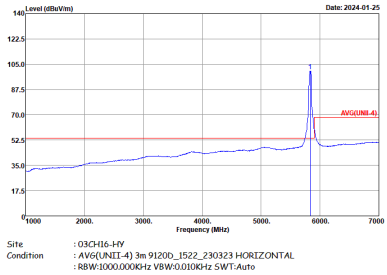
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 106/54 CH177 5885MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

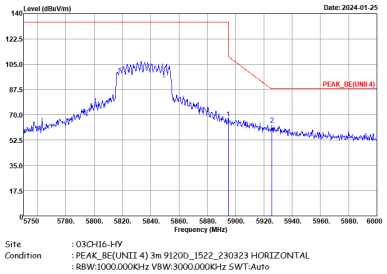
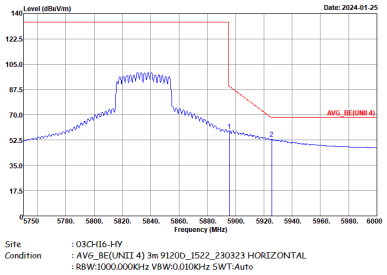
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 106/54 CH177 5885MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

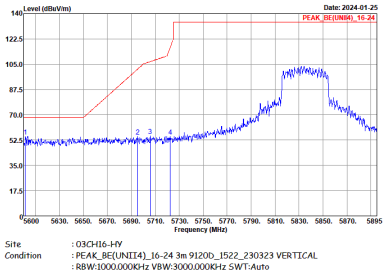
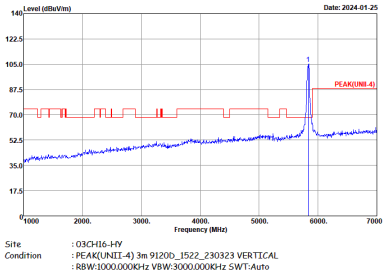
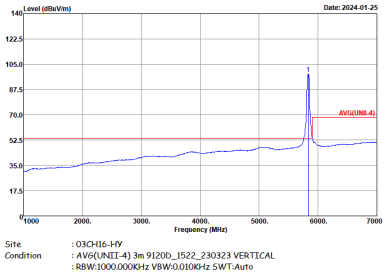
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT20) Partial 106/54 CH177 5885MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

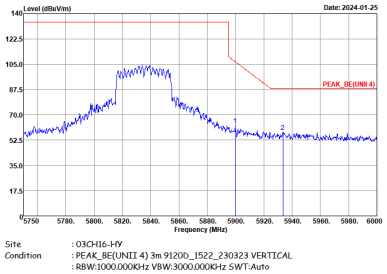
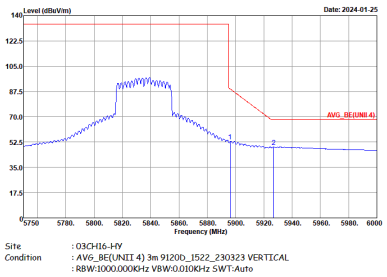
UNII 4 - 5850~5895MHz

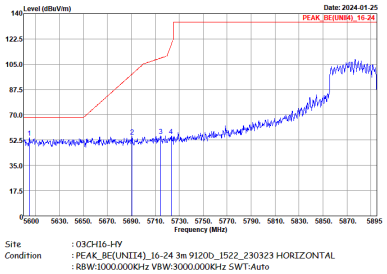
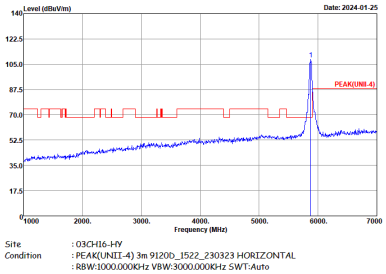
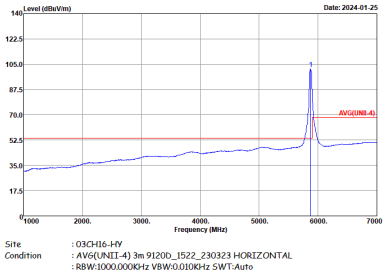
WIFI 802.11be (EHT40) Full (Band Edge @ 3m)

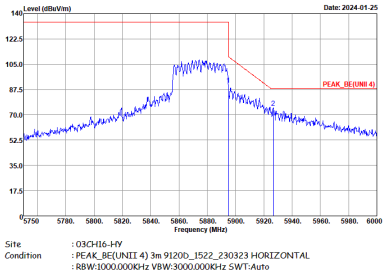
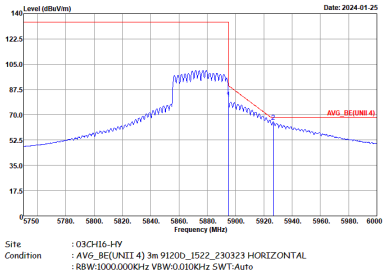
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT40) Full CH167 5835MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

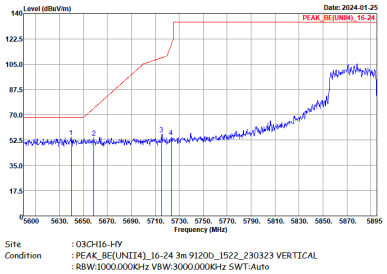
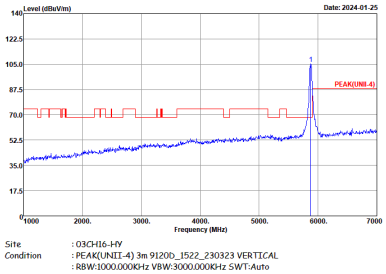
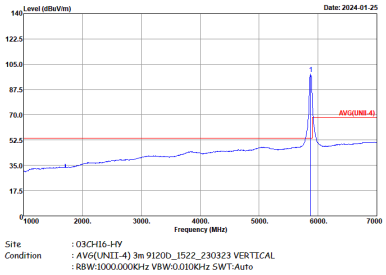
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT40) Full CH167 5835MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

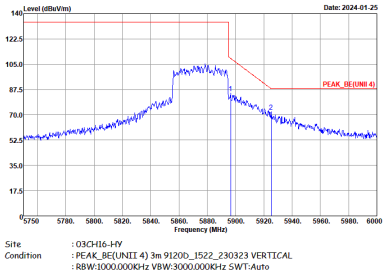
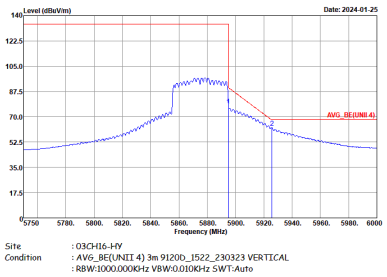
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT40) Full CH167 5835MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT40) Full CH167 5835MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT40) Full HT40 CH175 5875MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

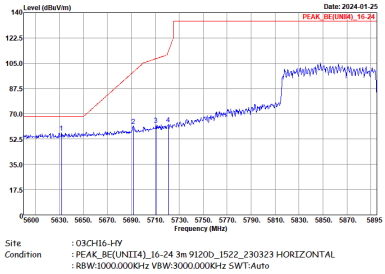
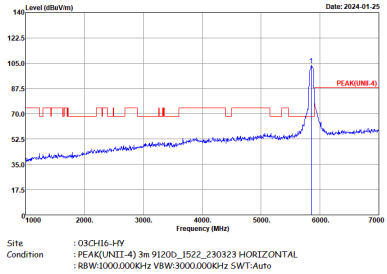
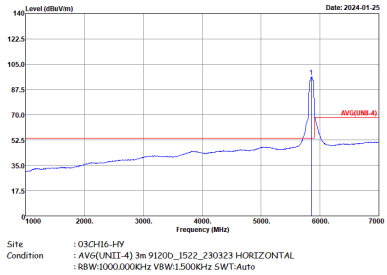
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT40) Full HT40 CH175 5875MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

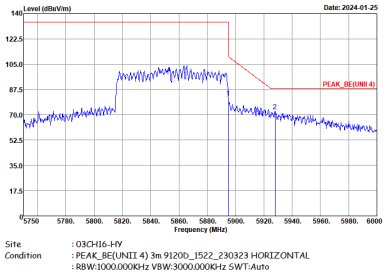
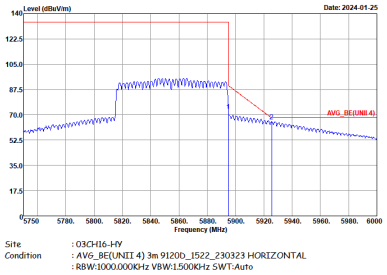
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT40) Full CH175 5875MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

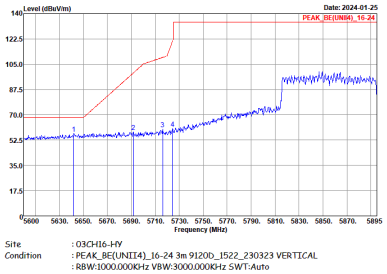
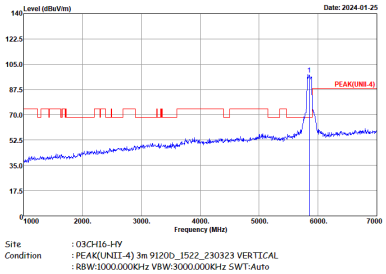
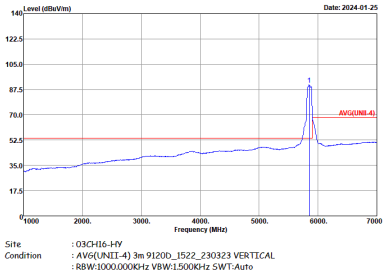
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT40) Full CH175 5875MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

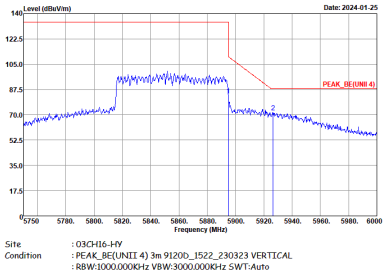
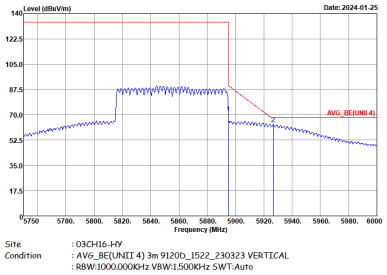
UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT80) Full (Band Edge @ 3m)

WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT80) Full CH171 5855MHz	
3+4	Horizontal	Fundamental
Peak		
Avg	Left blank	

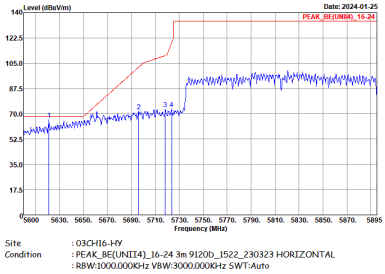
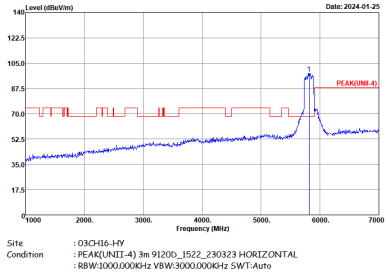
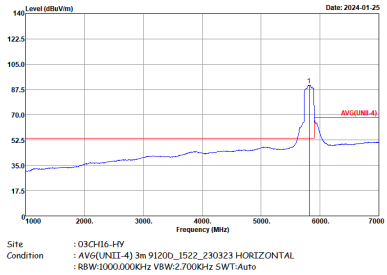
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT80) Full CH171 5855MHz	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg		Left blank

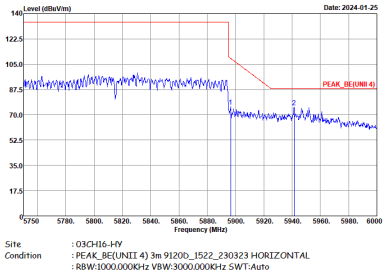
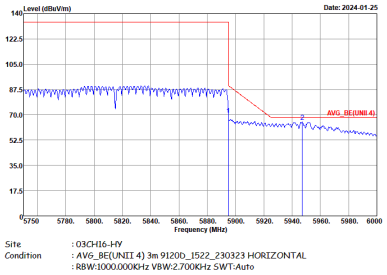
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT80) Full CH171 5855MHz	
3+4	Vertical	Fundamental
Peak		
Avg	Left blank	

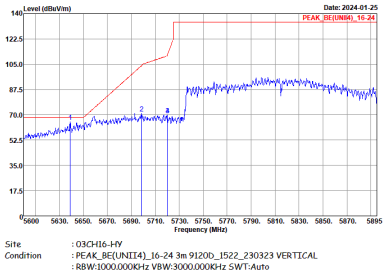
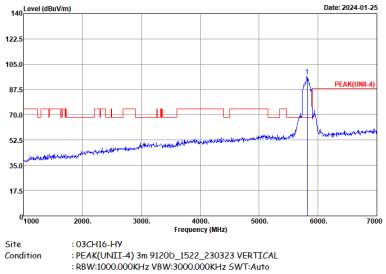
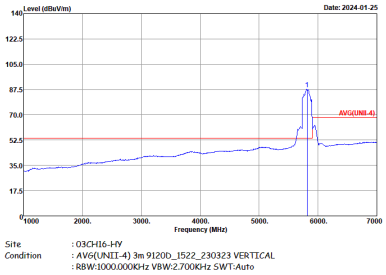
WIFI	UNII 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11be (EHT80) Full CH171 5855MHz	
3+4	Vertical	Fundamental
Peak		Left blank
Avg		Left blank

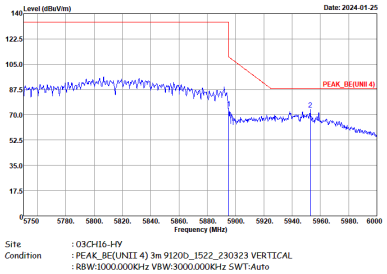
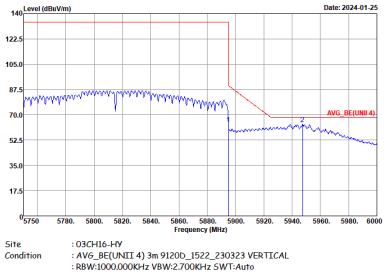
UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT160) Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11be (EHT160) Full CH163 5815MHz - L	
3+4	Horizontal	Fundamental
Peak		
Avg.	Left blank	

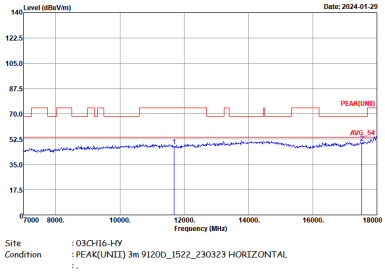
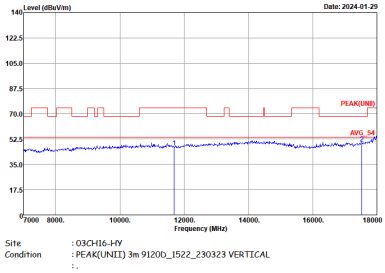
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11be (EHT160) Full CH163 5815MHz - R	
3+4	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

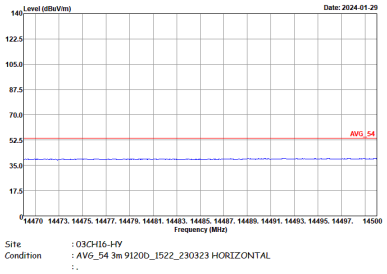
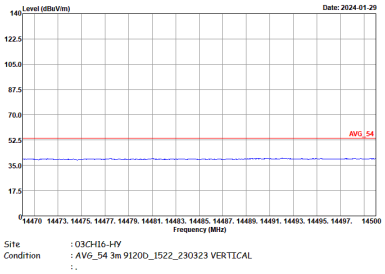
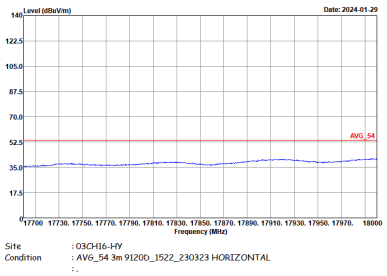
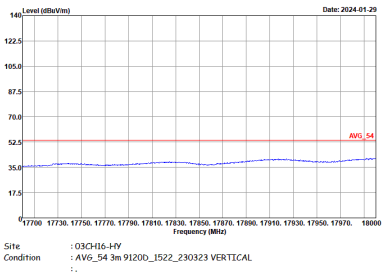
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11be (EHT160) Full CH163 5815MHz - L	
3+4	Vertical	Fundamental
Peak		
Avg.	Left blank	

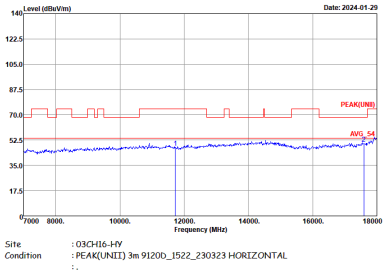
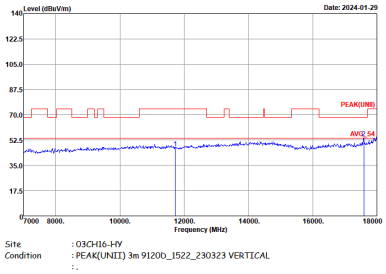
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11be (EHT160) Full CH163 5815MHz - R	
3+4	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

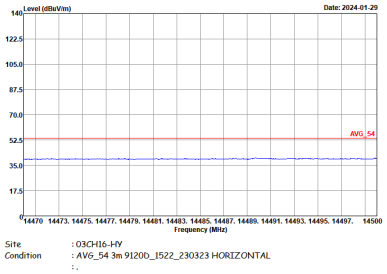
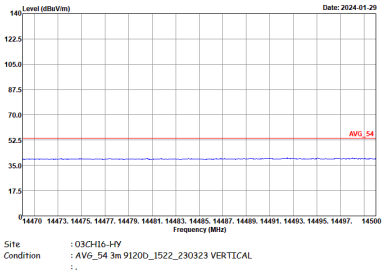
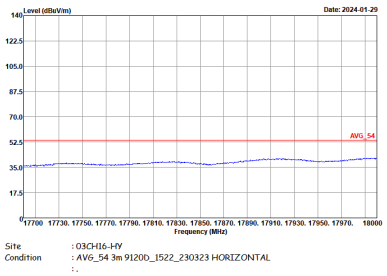
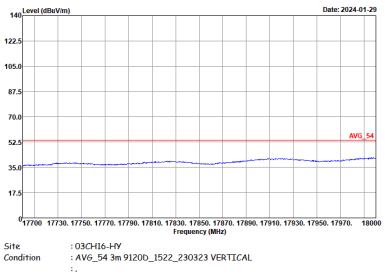
UNII 4 - 5850~5895MHz

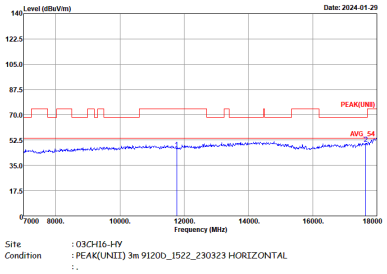
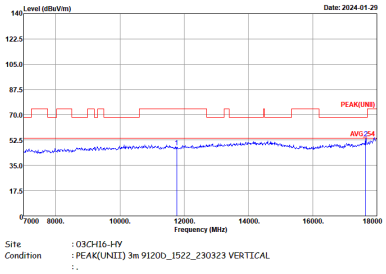
WIFI 802.11a (Harmonic @ 3m)

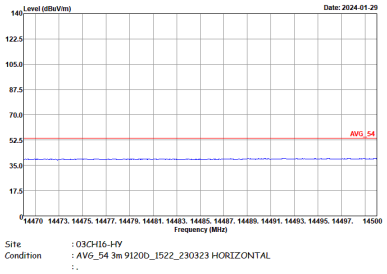
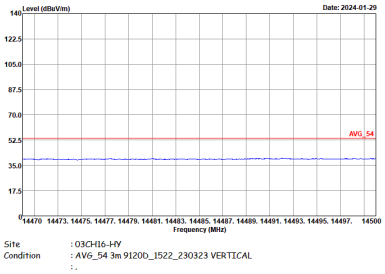
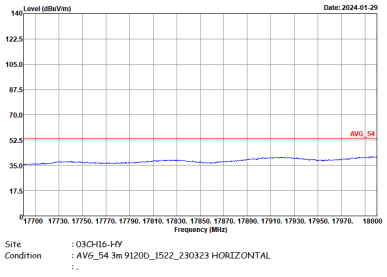
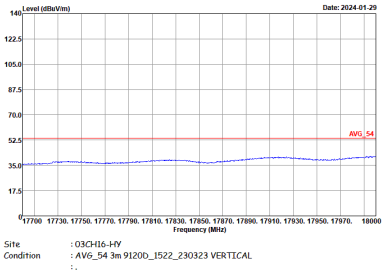
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH169 5845MHz	
3+4	Horizontal	Vertical
Peak Avg.		

WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH169 5845MHz	
3+4	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg.		

WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH173 5865MHz	
3+4	Horizontal	Vertical
Peak Avg.		

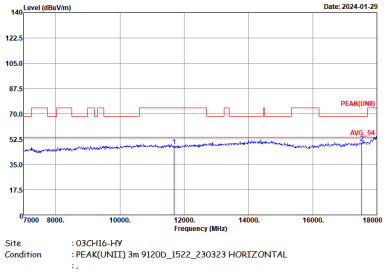
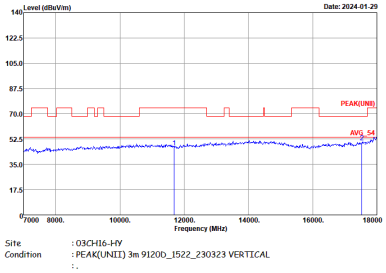
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH173 5865MHz	
3+4	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg.		

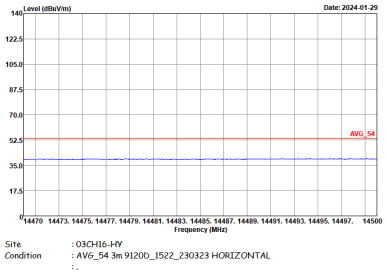
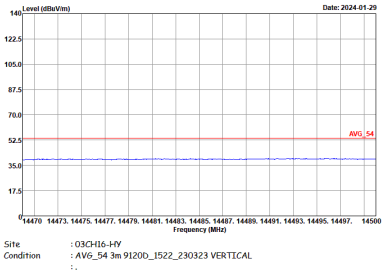
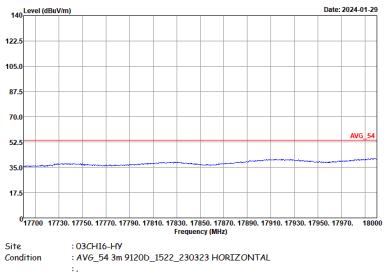
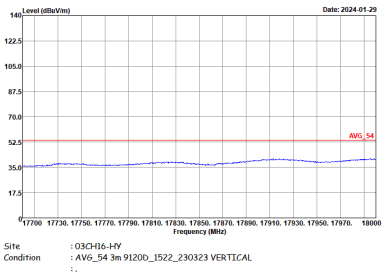
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH177 5885MHz	
3+4	Horizontal	Vertical
Peak Avg.		

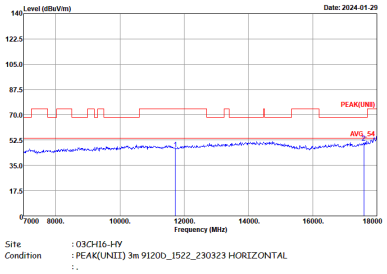
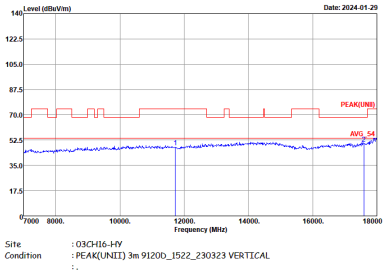
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH177 5885MHz	
3+4	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg.		

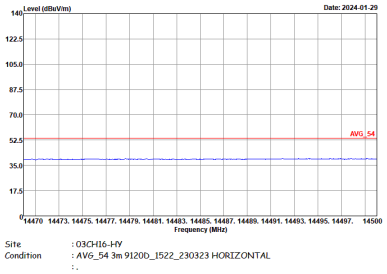
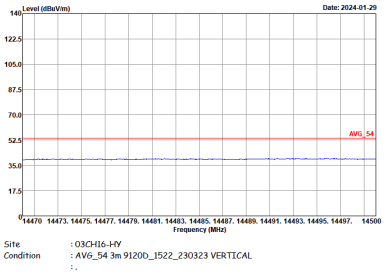
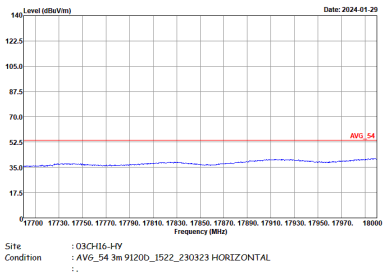
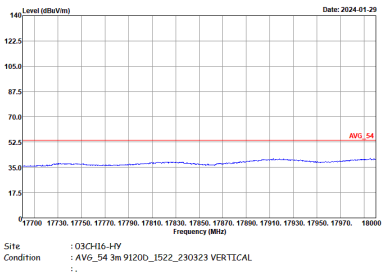
UNII 4 - 5850~5895MHz

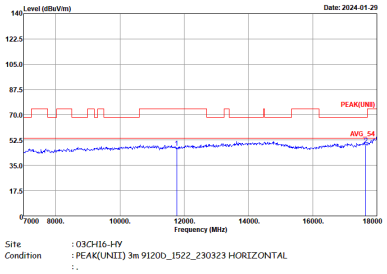
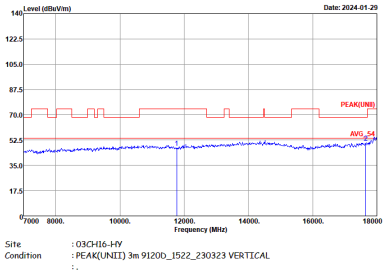
WIFI 802.11be (EHT20) Full (Harmonic @ 3m)

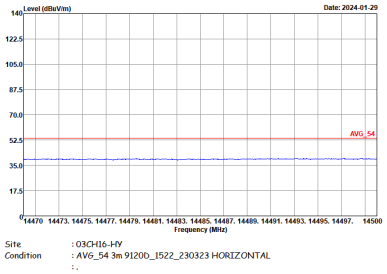
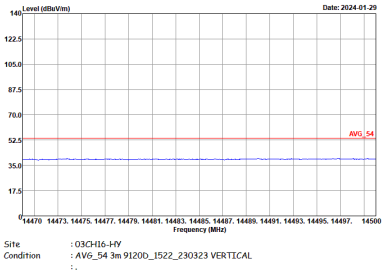
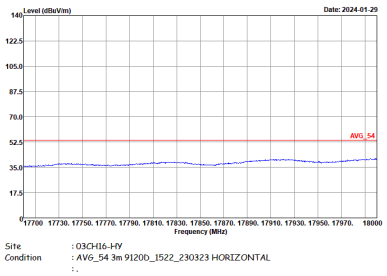
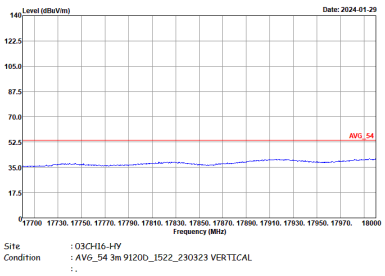
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT20) Full CH169 5845MHz	
3+4	Horizontal	Vertical
Peak Avg.		

WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT20) Full CH169 5845MHz	
3+4	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg.		

WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT20) Full CH173 5865MHz	
3+4	Horizontal	Vertical
Peak Avg.		

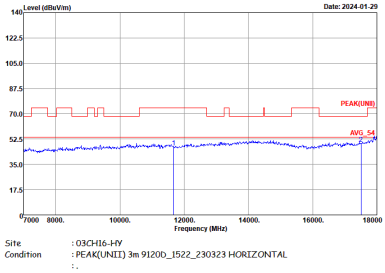
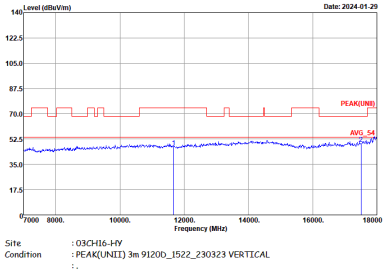
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT20) Full CH173 5865MHz	
3+4	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg.		

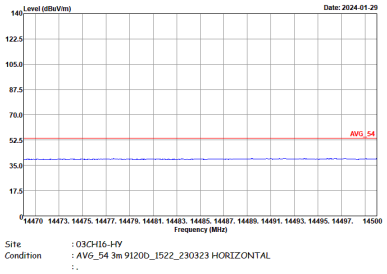
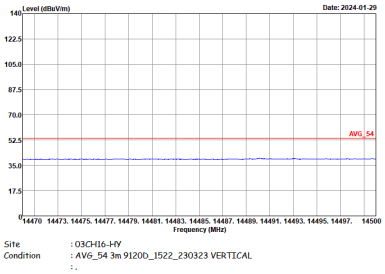
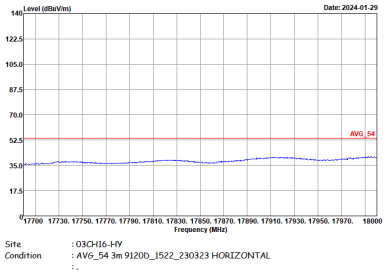
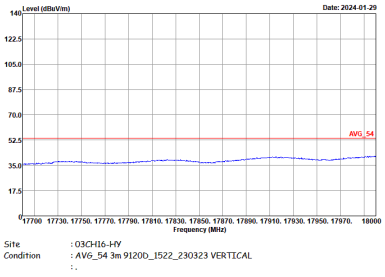
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT20) Full CH177 5885MHz	
3+4	Horizontal	Vertical
Peak Avg.		

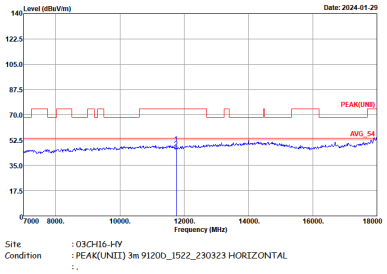
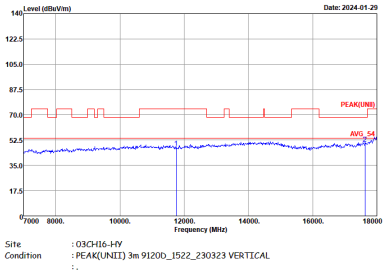
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT20) Full CH177 5885MHz	
3+4	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg.		

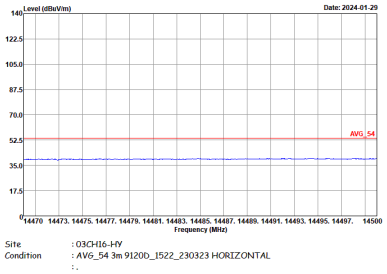
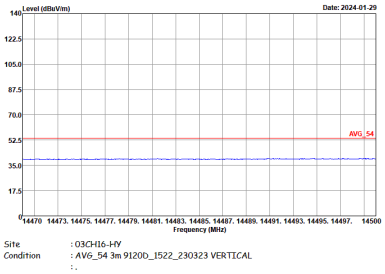
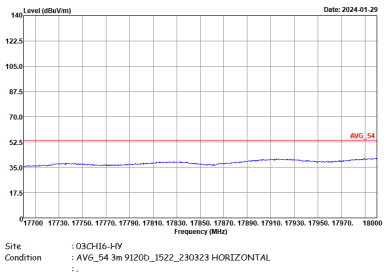
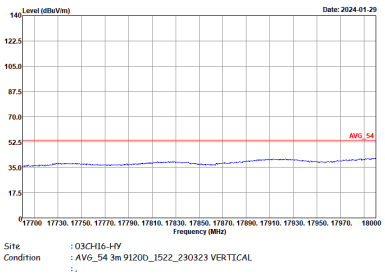
UNII 4 - 5850~5895MHz

WIFI 802.11be (EHT40) Full (Harmonic @ 3m)

WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT40) Full CH167 5835MHz	
3+4	Horizontal	Vertical
Peak Avg.		

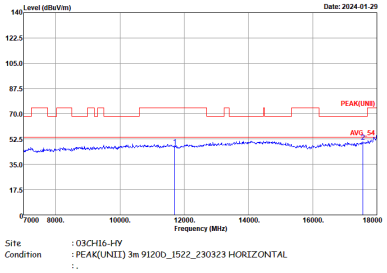
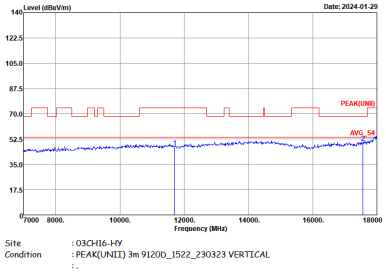
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT40) Full CH167 5835MHz	
3+4	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg.		

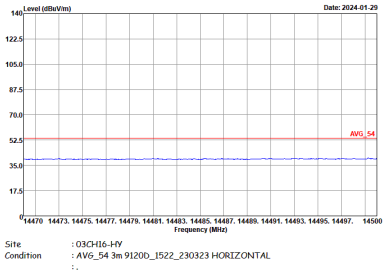
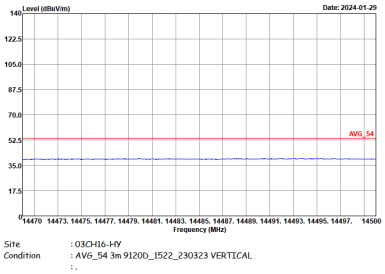
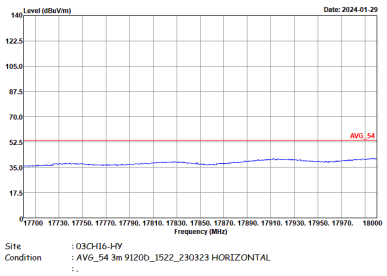
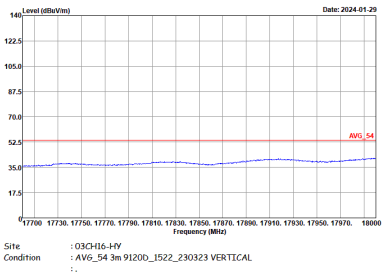
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT40) Full CH175 5875MHz	
3+4	Horizontal	Vertical
Peak Avg.		

WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT40) Full CH175 5875MHz	
3+4	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg.		

UNII 4 - 5850~5895MHz

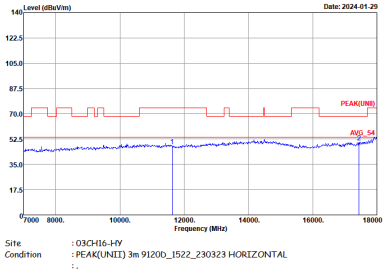
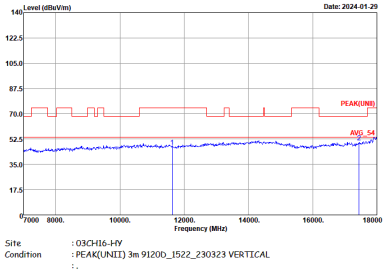
WIFI 802.11be (EHT80) Full (Harmonic @ 3m)

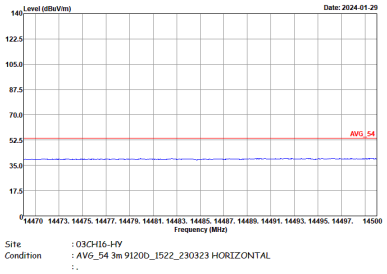
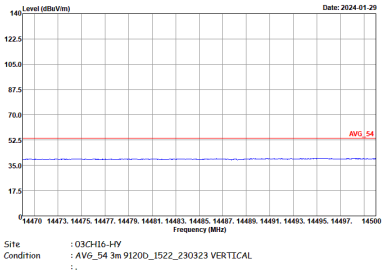
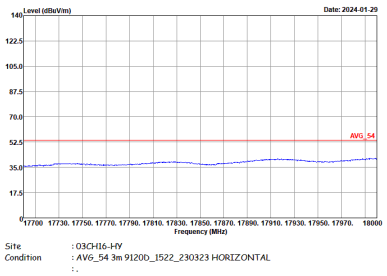
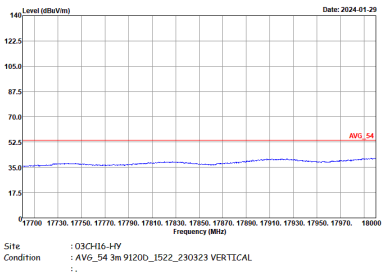
WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT80) Full CH171 5855MHz	
3+4	Horizontal	Vertical
Peak Avg.		

WIFI	UNII 4 5850~5895MHz Harmonic @ 3m	
ANT	802.11be (EHT80) Full CH171 5855MHz	
3+4	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg.		

UNII 4 - 5850~5895MHz

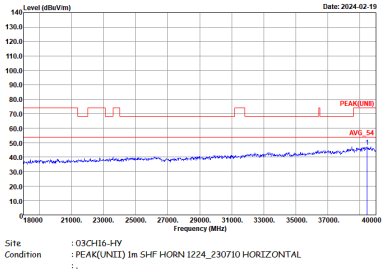
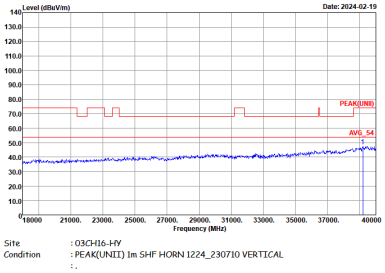
WIFI 802.11be (EHT160) Full (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11be (EHT160) Full CH163 5815MHz	
3+4	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11be (EHT160) Full CH163 5815MHz	
3+4	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg.		

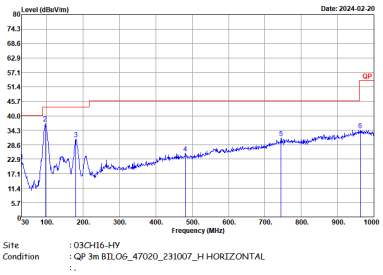
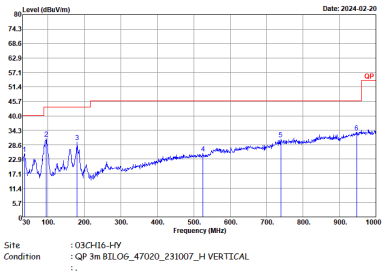
Emission above 18GHz

5GHz WIFI 802.11ax HE20 Full (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ax HE20 Full SHF	
3+4	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

5GHz WIFI 802.11ax HE20 Full (LF)

WIFI	5GHz WIFI	
ANT	802.11ax HE20 Full LF	
3+4	Horizontal	Vertical
QP / Peak		

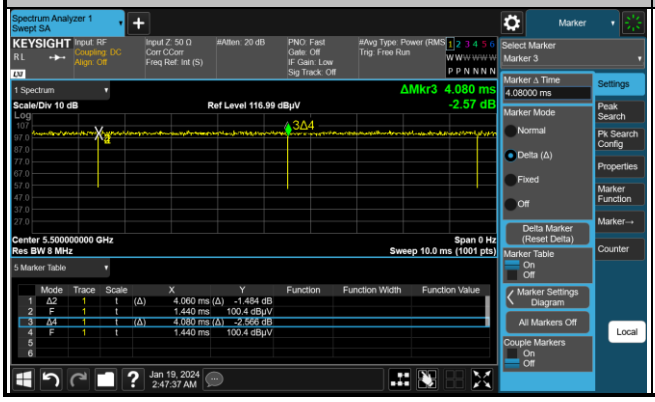
Appendix E. Duty Cycle Plots

<For Radiated Spurious Emission test>

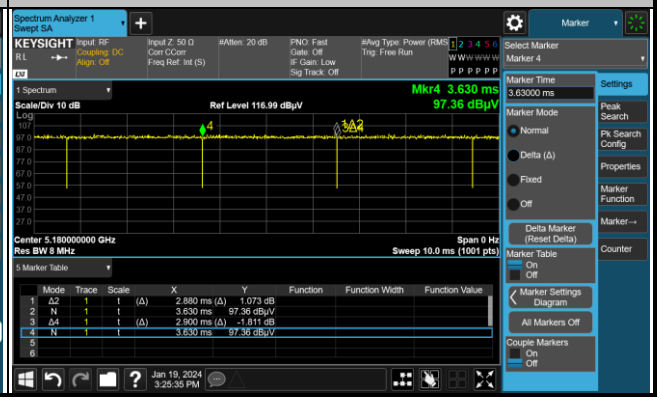
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
3+4	5GHz 802.11a	99.51	-	-	10Hz
3+4	5GHz 802.11be EHT20 Full RU	99.31	-	-	10Hz
3+4	5GHz 802.11be EHT20 26 RU	97.89	1620	0.62	680Hz
3+4	5GHz 802.11be EHT20 52 RU	97.33	1460	0.68	750Hz
3+4	5GHz 802.11be EHT20 106 RU	97.01	1300	0.77	820Hz
3+4	5GHz 802.11be EHT40 Full RU	98.79	-	-	10Hz
3+4	5GHz 802.11be EHT80 Full RU	97.38	742	1.35	1.5KHz
3+4	5GHz 802.11be EHT160 Full RU	95.32	407	2.46	2.7KHz

MIMO <Ant. 3+4>

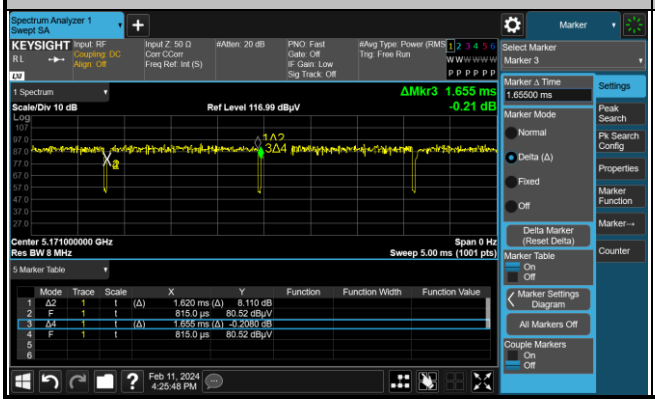
802.11a



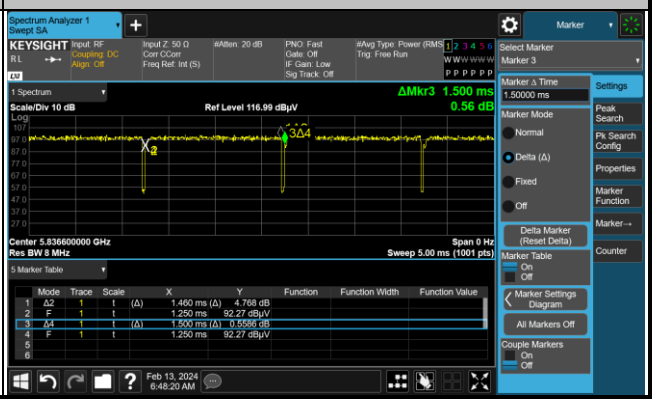
802.11be EHT20 Full RU



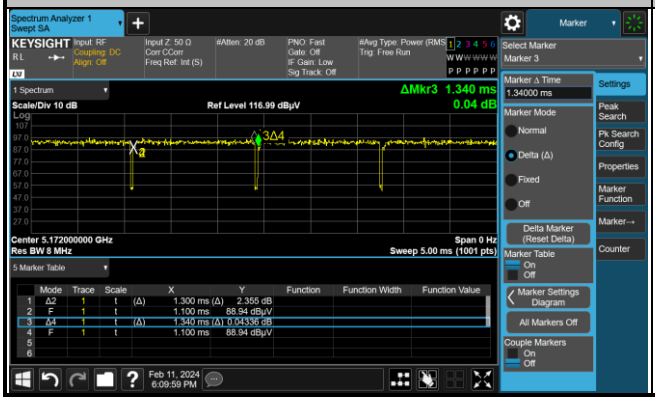
5GHz 802.11be EHT20 26 RU



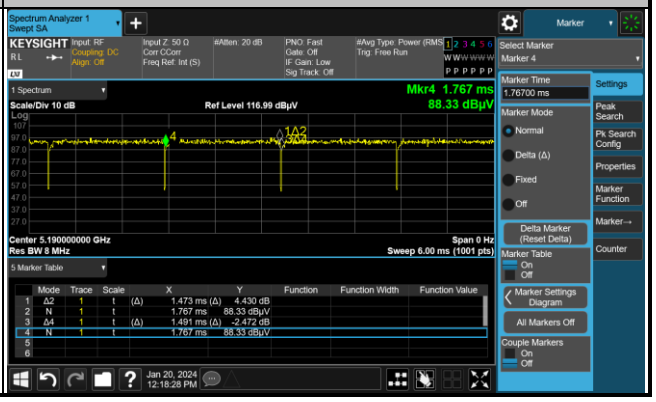
5GHz 802.11be EHT20 52 RU



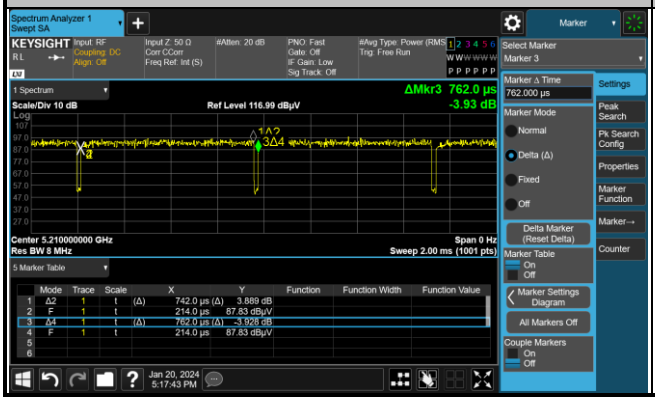
5GHz 802.11be EHT20 106 RU



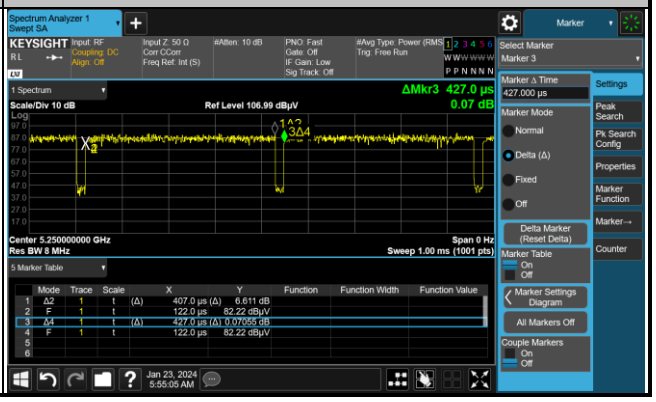
802.11be EHT40 Full RU



802.11be EHT80 Full RU



802.11be EHT160 Full RU

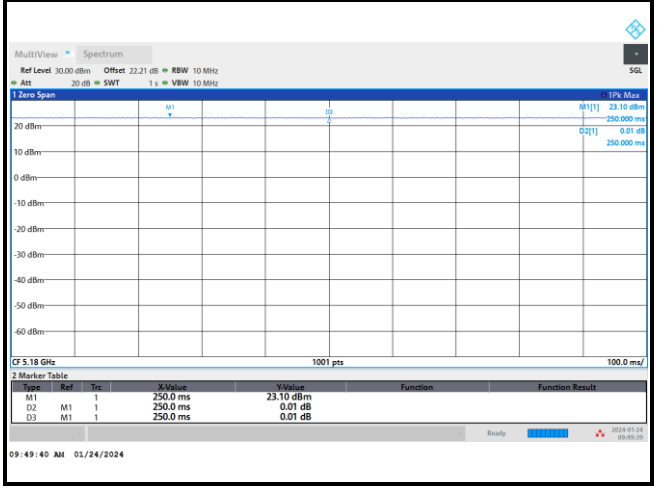


<For Conducted test>

Antenna	Band	Duty Cycle(%)	T(us)	Duty Factor(dB)
3+4	5GHz 802.11a for Ant. 3	100.00	-	0.00
3+4	5GHz 802.11a for Ant. 4	100.00	-	0.00
3+4	5GHz 802.11be EHT20 Full RU for Ant 3	100.00	-	0.00
3+4	5GHz 802.11be EHT20 Full RU for Ant 4	100.00	-	0.00
3+4	5GHz 802.11be EHT20 26 RU for Ant 3	98.07	-	0.08
3+4	5GHz 802.11be EHT20 26 RU for Ant 4	98.07	-	0.08
3+4	5GHz 802.11be EHT20 52 RU for Ant 3	97.34	1464	0.12
3+4	5GHz 802.11be EHT20 52 RU for Ant 4	97.86	1464	0.09
3+4	5GHz 802.11be EHT20 106 RU for Ant 3	97.02	1304	0.13
3+4	5GHz 802.11be EHT20 106 RU for Ant 4	97.10	1305	0.13
3+4	5GHz 802.11be EHT20 52+26 RU for Ant 3	100.00	-	0.00
3+4	5GHz 802.11be EHT20 52+26 RU for Ant 4	98.85	-	0.05
3+4	5GHz 802.11be EHT20 106+26 RU for Ant 3	98.04	-	0.09
3+4	5GHz 802.11be EHT20 106+26 RU for Ant 4	98.04	-	0.09
3+4	5GHz 802.11be EHT40 Full RU for Ant 3	98.40	-	0.07
3+4	5GHz 802.11be EHT40 Full RU for Ant 4	98.40	-	0.07
3+4	5GHz 802.11be EHT80 Full RU for Ant 3	97.37	740	0.12
3+4	5GHz 802.11be EHT80 Full RU for Ant 4	97.37	740	0.12
3+4	5GHz 802.11be EHT80 Punture20 for Ant 3	98.05	-	0.09
3+4	5GHz 802.11be EHT80 Punture20 for Ant 4	98.06	-	0.09
3+4	5GHz 802.11be EHT160 Full RU for Ant 3	95.33	408	0.21
3+4	5GHz 802.11be EHT160 Full RU for Ant 4	95.33	408	0.21
3+4	5GHz 802.11be EHT160 Punture20 for Ant 3	95.85	462	0.18
3+4	5GHz 802.11be EHT160 Punture20 for Ant 4	95.45	462	0.20
3+4	5GHz 802.11be EHT160 Punture40 for Ant 3	96.34	526	0.16
3+4	5GHz 802.11be EHT160 Punture40 for Ant 4	96.33	525	0.16

MIMO <Ant. 3>

802.11a



———THE END———