



FCC RADIO TEST REPORT

FCC ID : A4RG9S9B
Equipment : Phone
Model Name : G9S9B
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jun. 08, 2021 and testing was started from Jun. 09, 2021 and completed on Aug. 22, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR0D2942-04F	01	Initial issue of report	Jul. 30, 2021
FR0D2942-04F	02	1. Retest for 26dB and 99% bandwidth 2. Revise remark for antenna gain calculation	Aug. 24, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 5.73 dB at 17475.000 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 10.57 dB at 0.501 MHz
3.6	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: William Chen

Report Producer: Vivian Hsu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
Model Name	G9S9B
FCC ID	A4RG9S9B
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/ GNSS/WPC/WPT WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
15211FDF60007M	RF Conducted Measurement
15201FDF60005H	Radiated Spurious Emission
15201FDF60009S	Conducted Emission

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification									
Tx/Rx Channel Frequency Range		5745 MHz ~ 5825 MHz							
Maximum Output Power		MIMO <Ant. 4 + 3> 802.11a: 23.79 dBm / 0.2392 W 802.11n HT20: 23.74 dBm / 0.2364 W 802.11n HT40: 22.70 dBm / 0.1861 W 802.11ac VHT20: 23.84 dBm / 0.2419 W 802.11ac VHT40: 22.80 dBm / 0.1904 W 802.11ac VHT80: 22.64 dBm / 0.1835 W 802.11ax HE20: 23.94 dBm / 0.2475 W 802.11ax HE40: 22.90 dBm / 0.1949 W 802.11ax HE80: 22.74 dBm / 0.1878 W							
99% Occupied Bandwidth		MIMO <Ant. 4> 802.11a: 18.53 MHz 802.11ax HE20: 19.68 MHz 802.11axHE40: 38.76 MHz 802.11ac HE80: 77.32 MHz MIMO <Ant. 3> 802.11a: 18.33 MHz 802.11ax HE20: 19.83 MHz 802.11ax HE40: 38.36 MHz 802.11ac HE80: 77.20 MHz							
Type of Modulation		802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax: OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)							
Antenna Type / Gain		<Ant. 4> : ILA Antenna with gain 0.70 dBi <Ant. 3> : IFA Antenna with gain -1.80 dBi							
Antenna Function Description		<table><tr><td></td><td>Ant. 4</td><td>Ant. 3</td></tr><tr><td>802.11 a/n/ac/ax MIMO</td><td>✓</td><td>✓</td></tr></table>			Ant. 4	Ant. 3	802.11 a/n/ac/ax MIMO	✓	✓
	Ant. 4	Ant. 3							
802.11 a/n/ac/ax MIMO	✓	✓							

Remark:

- MIMO Ant. 4+3 Directional Gain is a calculated result from MIMO Ant.4 and MIMO Ant.3. The formula used in calculation is documented in section 3.6.
Power of MIMO Ant.4 + Ant.3 is a calculated result from sum of the power MIMO Ant.4 and MIMO Ant.3.
- The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

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



1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH02-HY, CO05-HY

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH13-HY (TAF Code: 3786)
Remark	The Radiated Spurious Emissions test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
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). The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find 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	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

Note:

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

2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU but does not support 2x996-tone RU on 160MHz channel.

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

Final test modes are considering the modulation and worse data rates as below table.

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

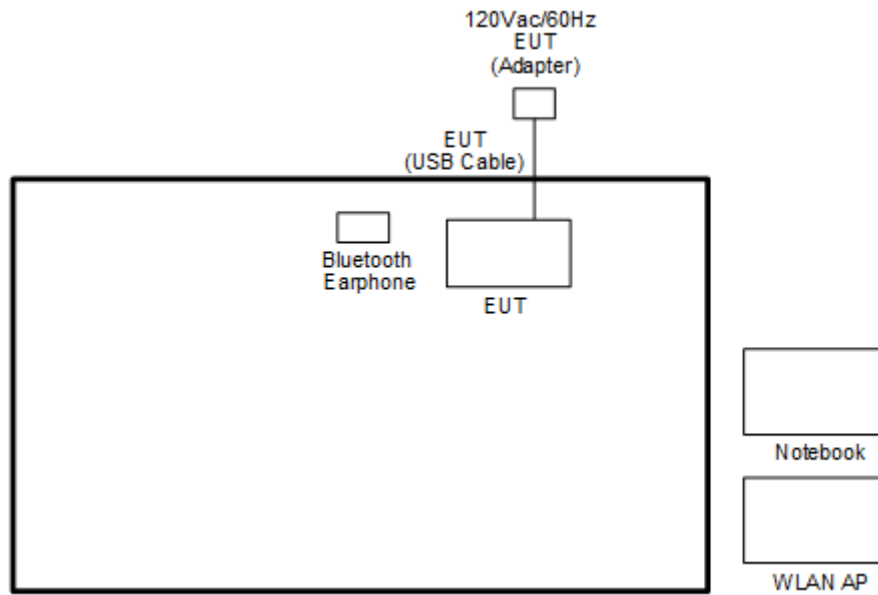
Test Cases	
AC Conducted Emission	Mode 1 WLAN (5GHz) Link + Bluetooth Link + USB Cable 1 (Charging from AC Adapter 2)
Remark: 1. For Radiated Test Cases, the tests were performed with Adapter 2 and USB Cable 1. 2. During the preliminary test, both charging modes (Adapter mode and WPC Charging mode) were verified. It is determined that the adaptor mode is the worst case for official test.	

Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

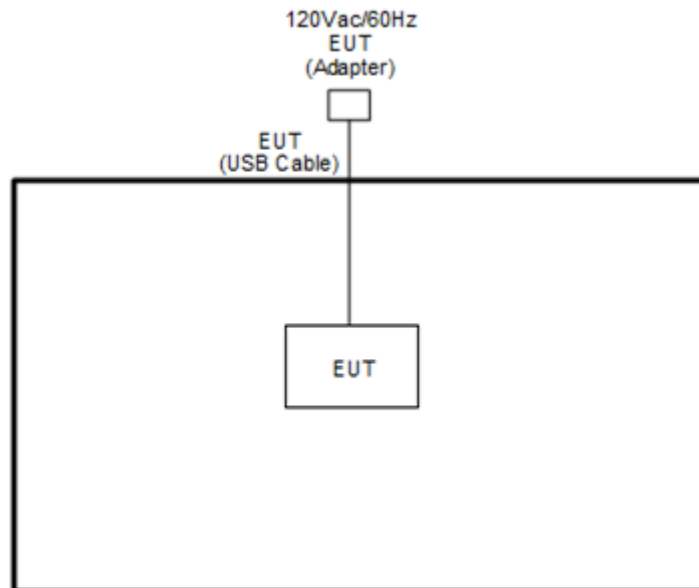
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

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.	Bluetooth Earphone	Google	G1013	N/A	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	Dell	Latitude E3480	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, utility “adb command V_1.0.36” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

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

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

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

26dB and 99% Occupied bandwidth are reporting only.

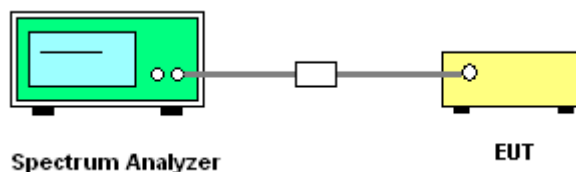
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

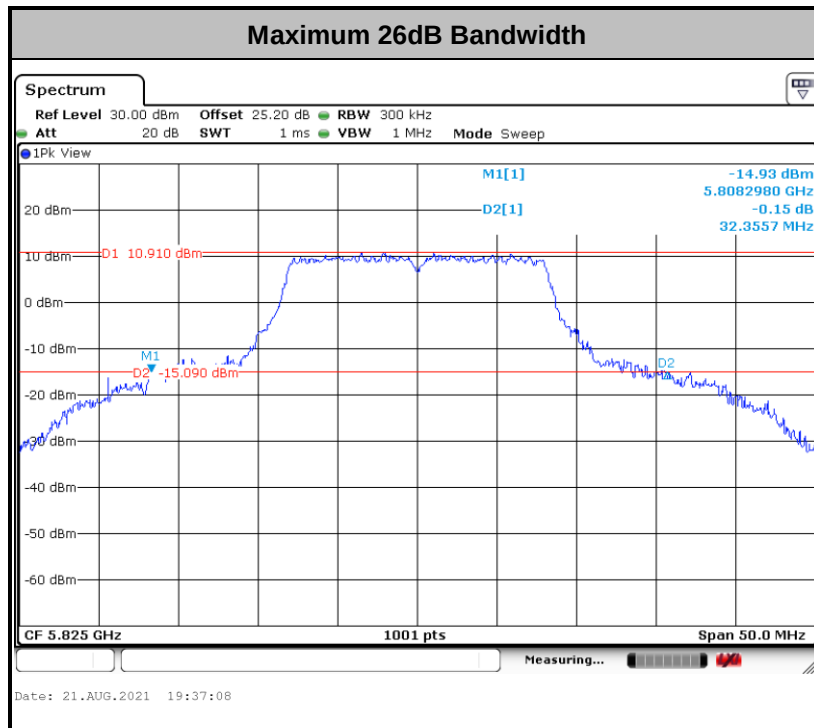
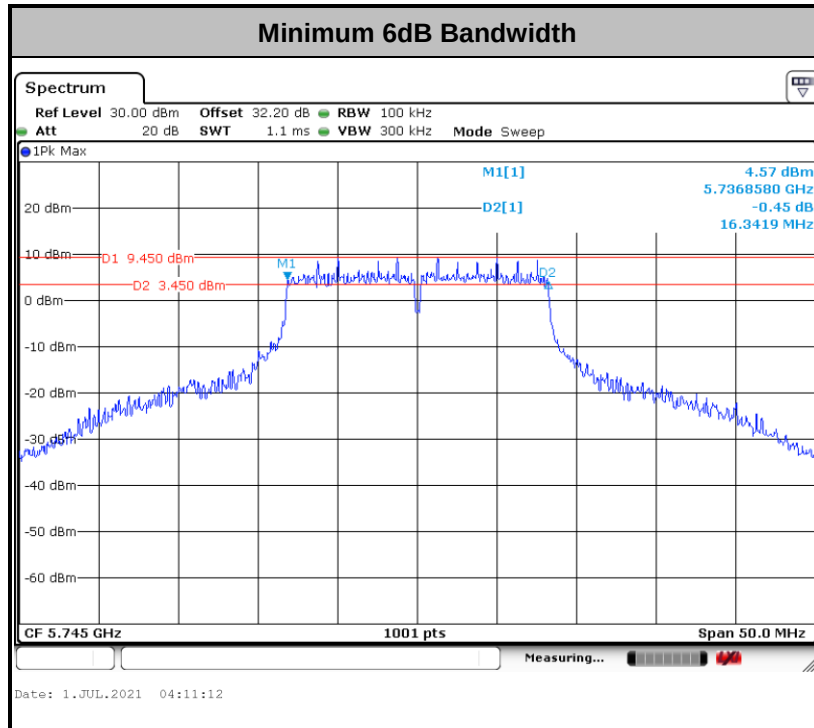
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section C) Emission bandwidth for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is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

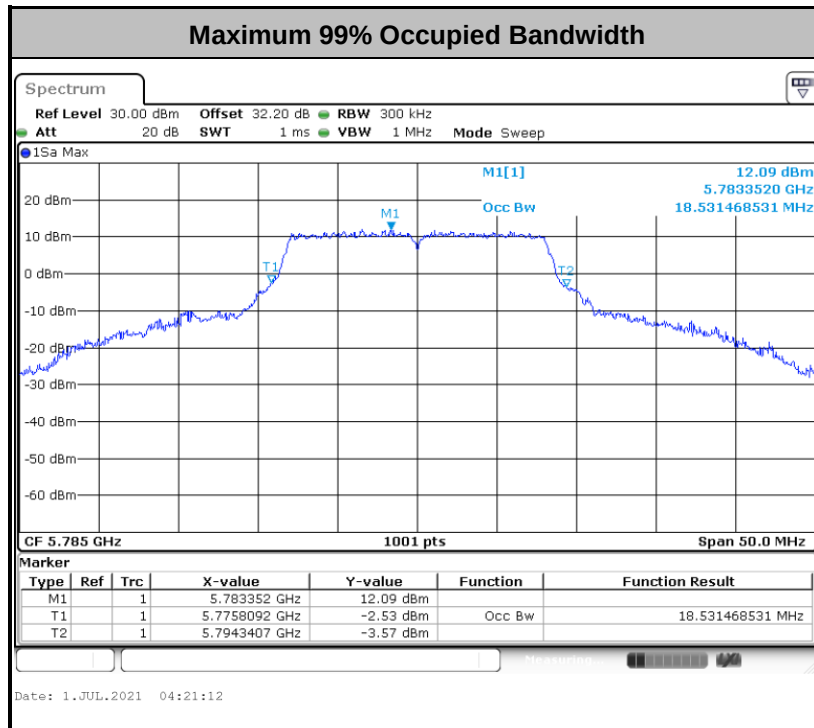
3.1.4 Test Setup



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

Please refer to Appendix A.

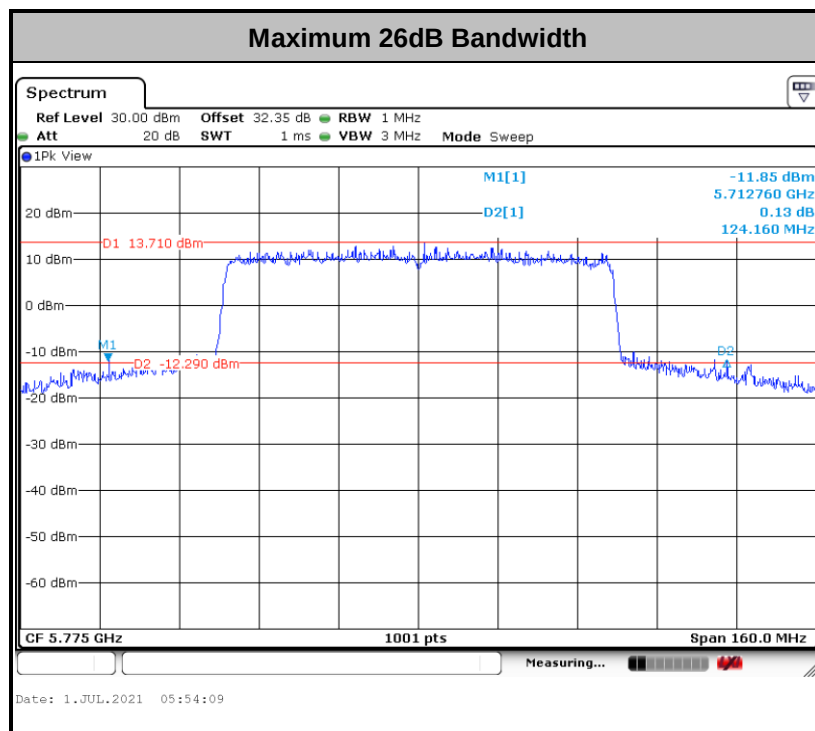
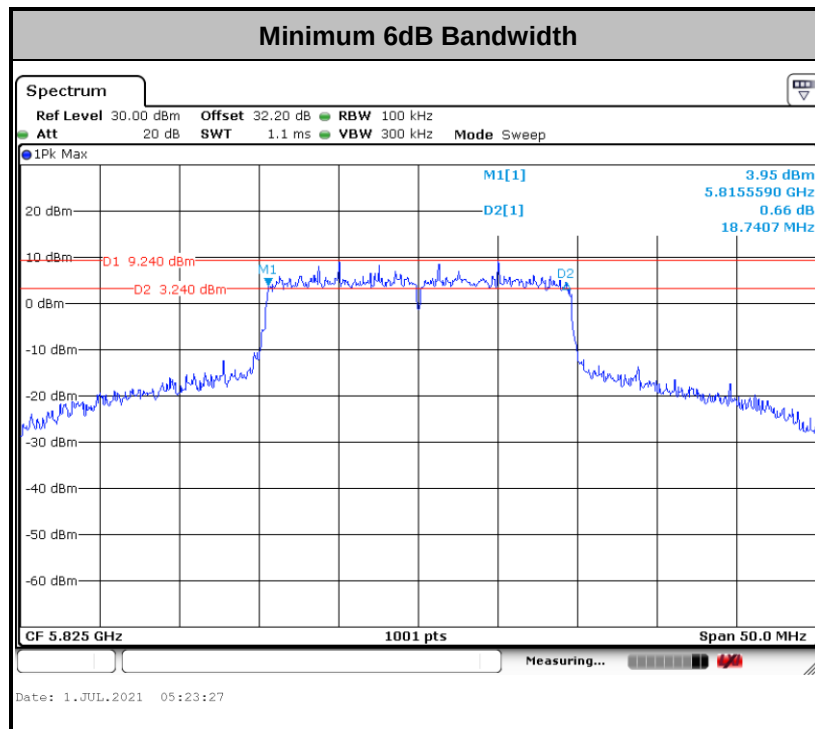


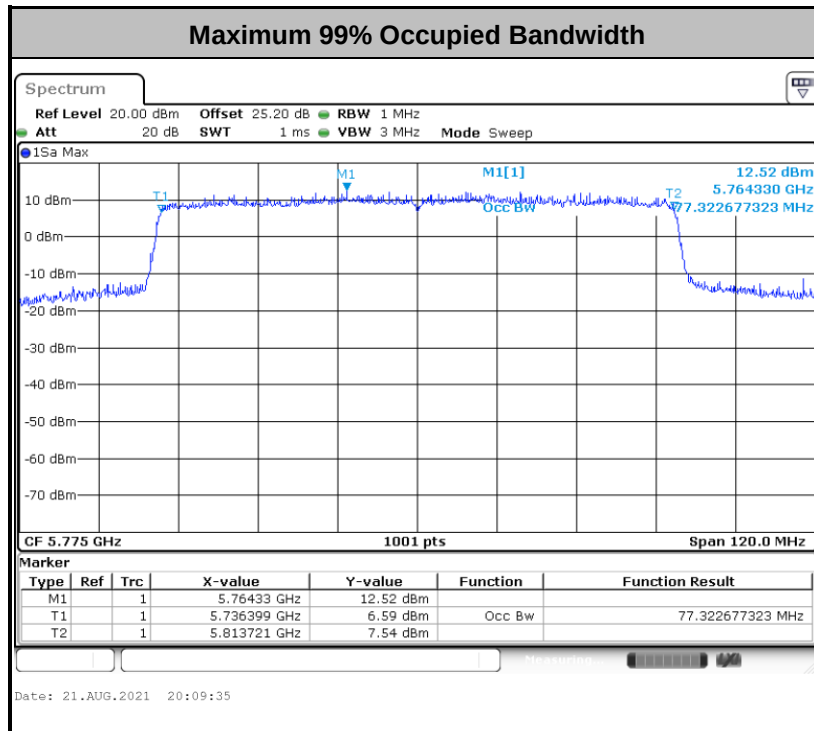


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<For 802.11ax Mode>





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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

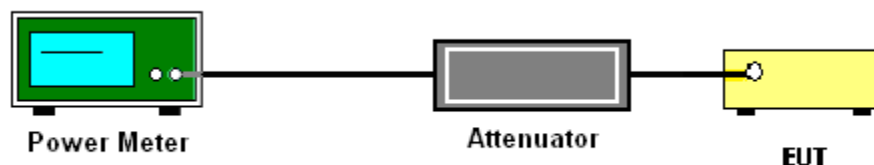
3.2.3 Test Procedures

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.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

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

3.3.2 Measuring Instruments

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-3

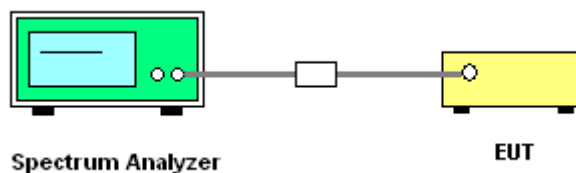
(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time $\leq$ (number of points in sweep) $\times$ 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.
Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

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

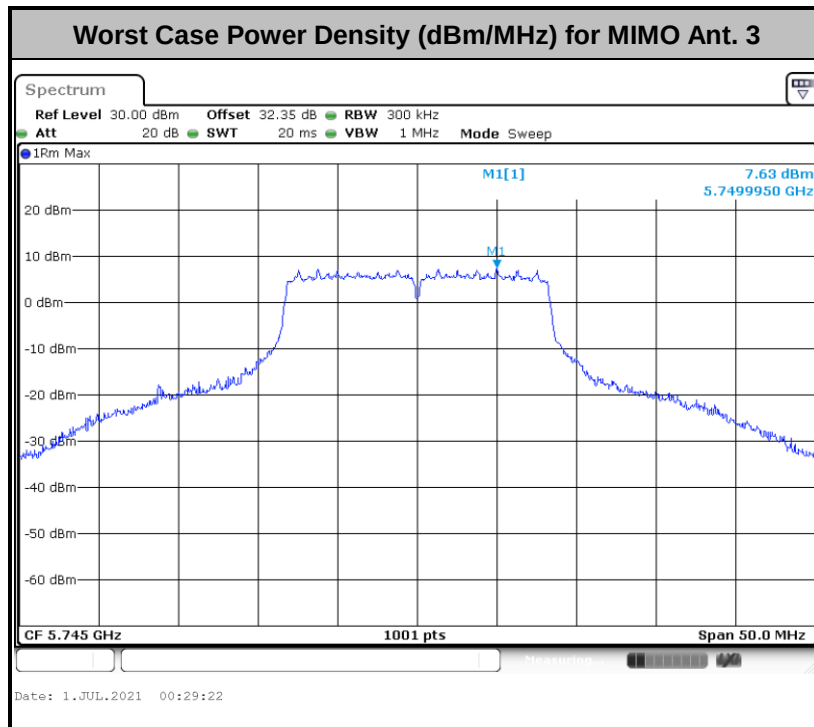
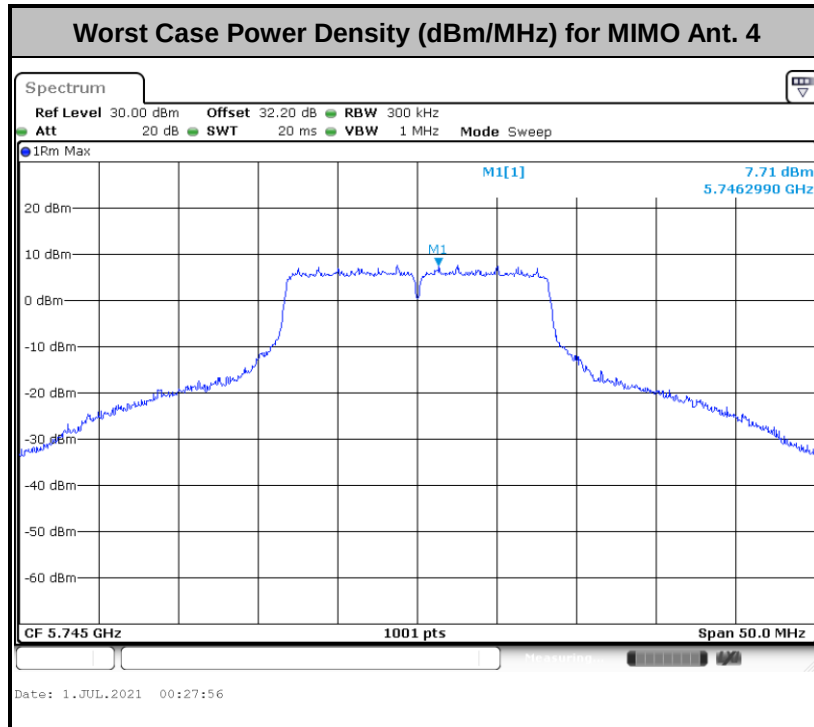
3.3.4 Test Setup





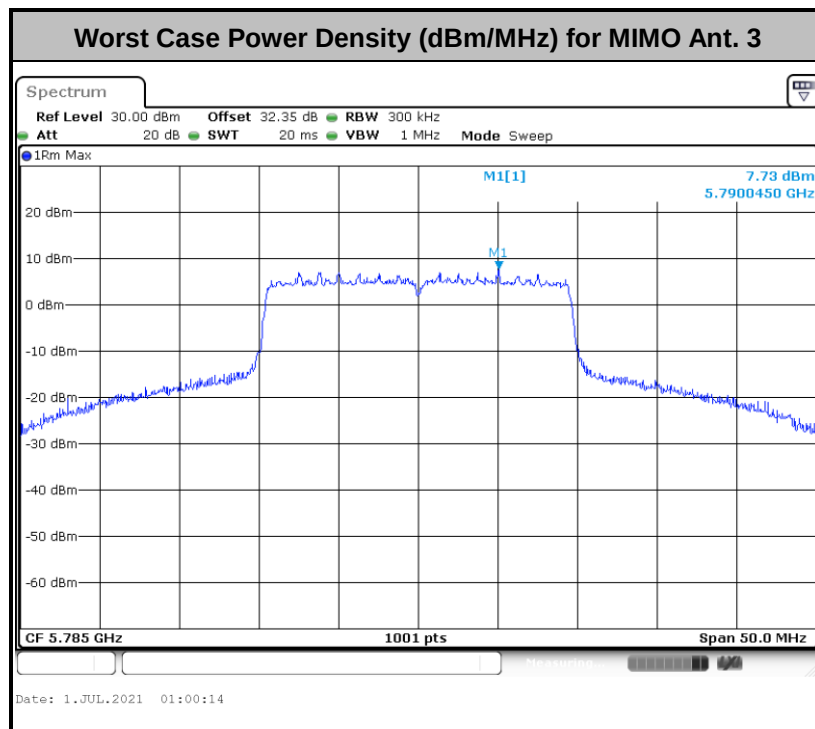
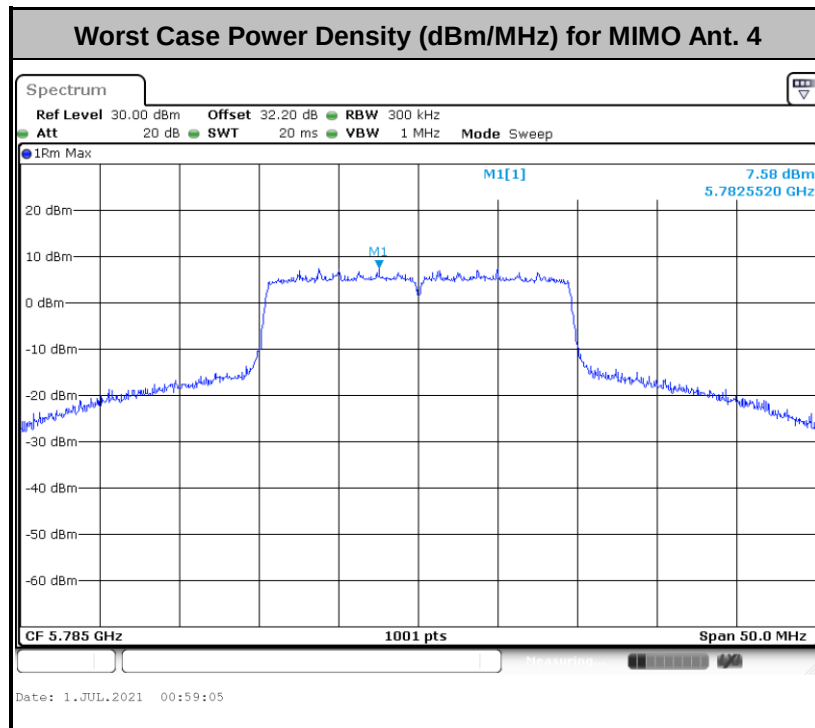
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





<For 802.11ax Mode>



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

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

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

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

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

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

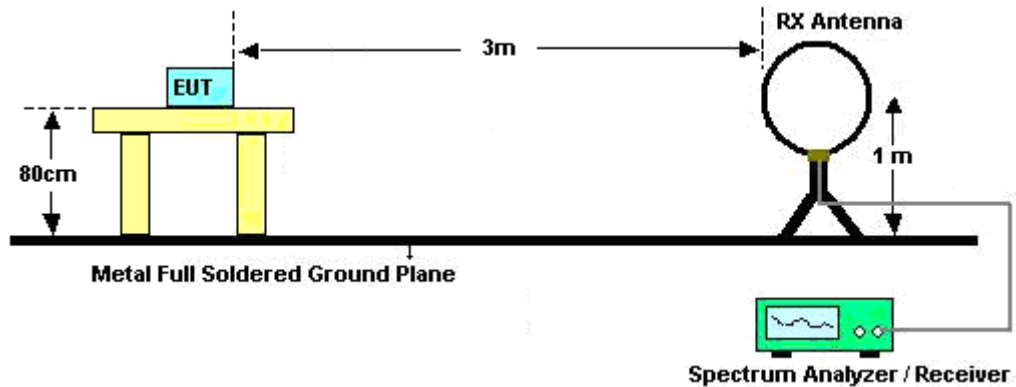
3.4.3 Test Procedures

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 $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT 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 set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT 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. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.

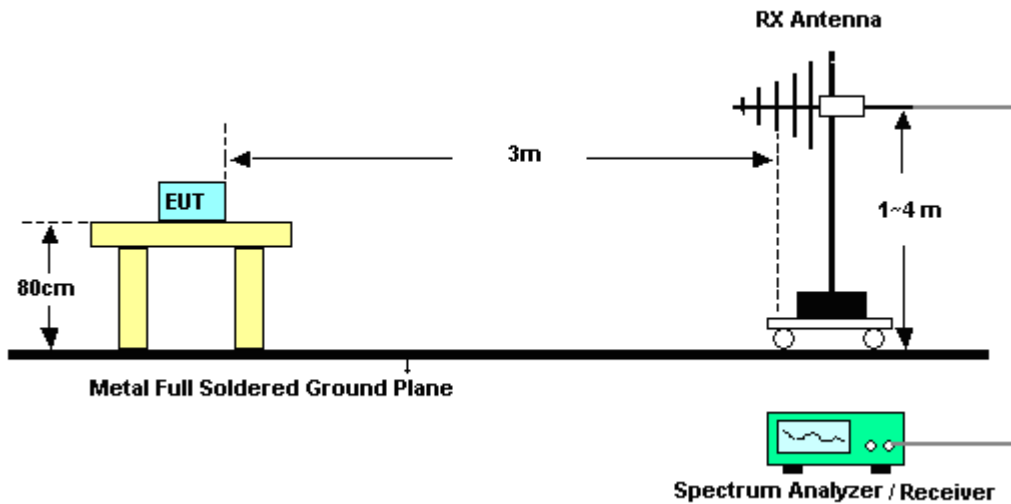
7. For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

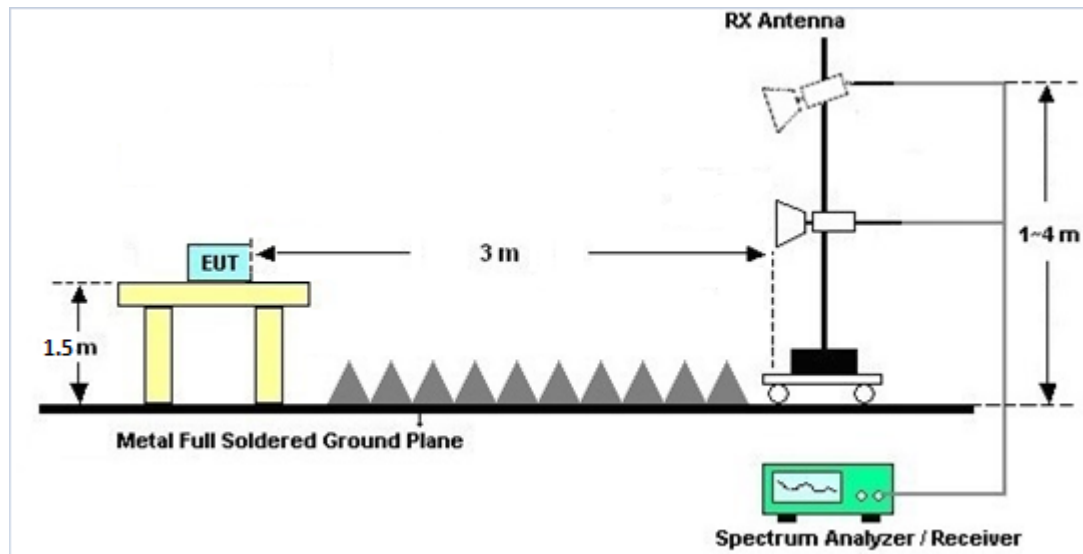
For radiated emissions below 30MHz



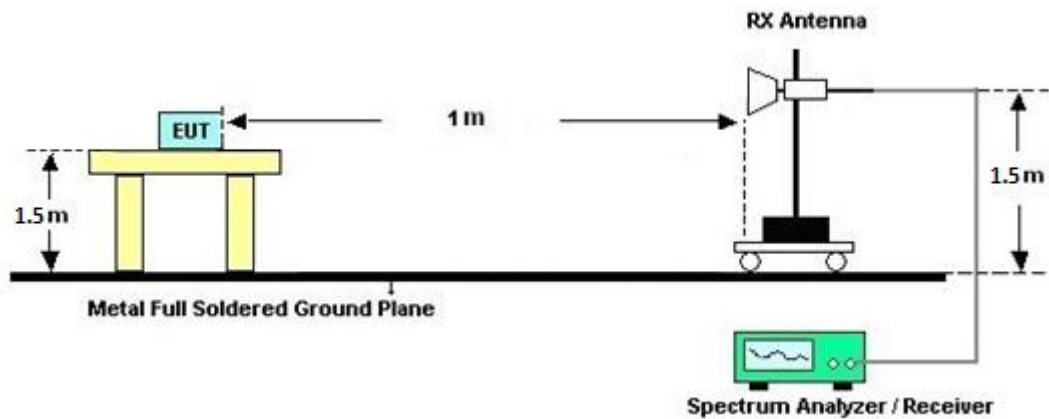
For radiated emissions from 30MHz to 1GHz



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 (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

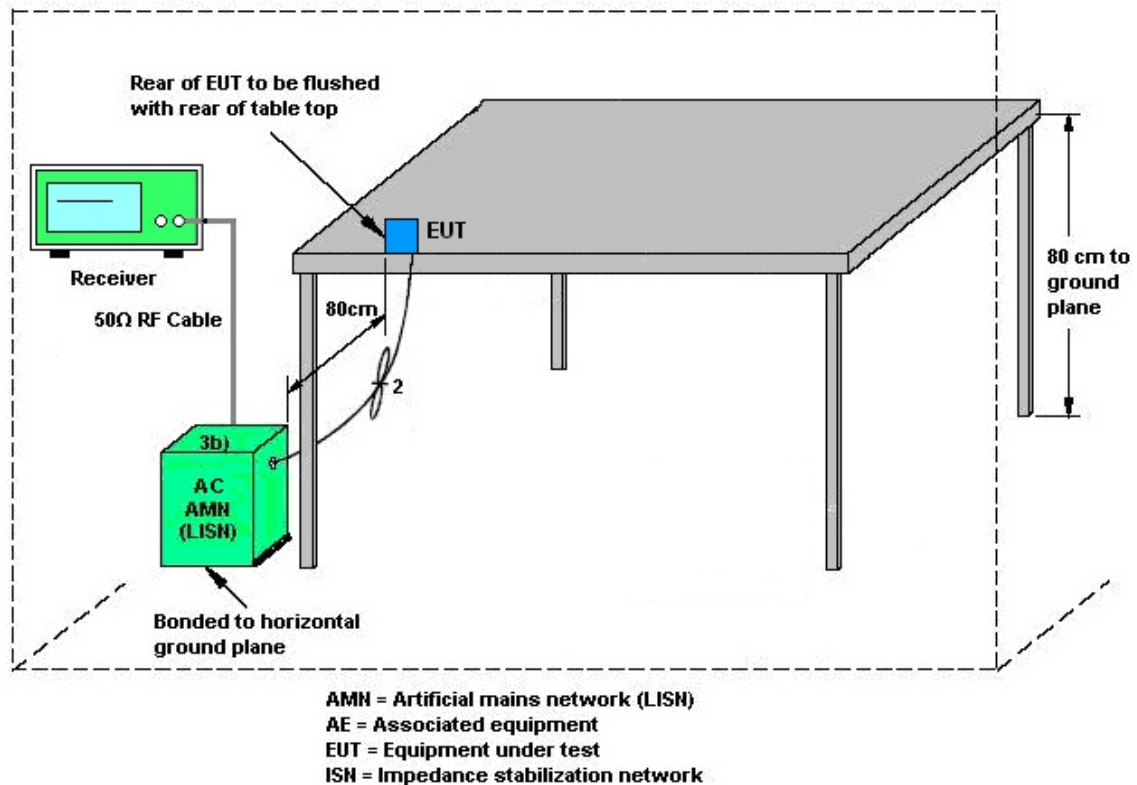
3.5.2 Measuring Instruments

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

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

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

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

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

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 4	Ant. 3	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	0.70	-1.80	0.70	2.55	0.00	0.00

Power Limit Reduction = $DG(\text{Power}) - 6\text{dBi}$, (min = 0)

PSD Limit Reduction = $DG(\text{PSD}) - 6\text{dBi}$, (min = 0)



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	Jan. 04, 2021	Jun. 09, 2021~ Jul. 28, 2021	Jan. 03, 2022	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 16, 2020	Jun. 09, 2021~ Jul. 28, 2021	Dec. 15, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jul. 15, 2020	Jun. 09, 2021~ Jul. 13, 2021	Jul. 14, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jul. 13, 2021	Jul. 13, 2021~ Jul. 28, 2021	Jul. 12, 2022	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-001 01800-30-10 P	1590074	1GHz~18GHz	May 18, 2021	Jun. 09, 2021~ Jul. 28, 2021	May 17, 2022	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 28, 2020	Jun. 09, 2021~ Jul. 28, 2021	Oct. 27, 2021	Radiation (03CH13-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 31, 2021	Jun. 09, 2021~ Jul. 28, 2021	Jan. 30, 2022	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 18, 2021	Jun. 09, 2021~ Jul. 28, 2021	Mar. 17, 2022	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 09, 2021~ Jul. 28, 2021	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500 -B	N/A	1m~4m	N/A	Jun. 09, 2021~ Jul. 28, 2021	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 09, 2021~ Jul. 28, 2021	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-000992	N/A	N/A	Jun. 09, 2021~ Jul. 28, 2021	N/A	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 11, 2020	Jun. 09, 2021~ Jul. 28, 2021	Dec. 10, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 10, 2021	Jun. 09, 2021~ Jul. 28, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 10, 2021	Jun. 09, 2021~ Jul. 28, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 22, 2021	Jun. 09, 2021~ Jul. 28, 2021	Feb. 21, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz~40GHz	Mar. 11, 2021	Jun. 09, 2021~ Jul. 28, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M-18G	Feb. 10, 2021	Jun. 09, 2021~ Jul. 28, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Jun. 09, 2021~ Jul. 28, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA91705 84	18GHz- 40GHz	Dec. 11, 2020	Jun. 09, 2021~ Jul. 28, 2021	Dec. 10, 2021	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303B	TP200879	N/A	Oct. 22, 2020	Jun. 09, 2021~ Jul. 28, 2021	Oct. 21, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-587 2.5-6750-180 00-40ST	Sn5	6.75GHz High Pass Filter	Mar. 11, 2021	Jun. 09, 2021~ Jul. 28, 2021	Mar. 10, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-27 00-3000-180 00-60SS	SN2	3GHz High Pass Filter	May 17, 2021	Jun. 09, 2021~ Jul. 28, 2021	May 16, 2020	Radiation (03CH13-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 02, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Jul. 02, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Jul. 02, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Jul. 02, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 02, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Jul. 02, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Jul. 02, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	Jun.11, 2021~ Aug. 22, 2021	Mar. 02, 2022	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	RPR6W-210 1001	10MHz~8GHz	Feb. 03, 2021	Jun.11, 2021~ Aug. 22, 2021	Feb. 02, 2022	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Jun.11, 2021~ Jul. 01, 2021	Jul. 21, 2021	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Nov. 13, 2020	Aug. 21, 2021~ Aug. 22, 2021	Nov. 12, 2021	Conducted (TH02-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Jun.11, 2021~ Aug. 22, 2021	Mar. 16, 2022	Conducted (TH02-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	22.8~25.1	°C
Test Date:	2021/6/11~2021/8/22	Relative Humidity:	46.5~58.7	%

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

Band IV 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 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	149	5745	18.38	18.33	32.31	30.86	16.34	16.34	0.5	Pass
11a	6Mbps	2	157	5785	18.53	18.13	32.06	32.15	16.34	16.34	0.5	Pass
11a	6Mbps	2	165	5825	18.28	18.08	32.36	31.21	16.34	16.34	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	149	5745	20.70	20.45	23.59	30.00		0.70		Pass
11a	6Mbps	2	157	5785	20.90	20.65	23.79	30.00		0.70		Pass
11a	6Mbps	2	165	5825	20.80	20.45	23.64	30.00		0.70		Pass
HT20	MCS0	2	149	5745	20.70	20.55	23.64	30.00		0.70		Pass
HT20	MCS0	2	157	5785	20.80	20.65	23.74	30.00		0.70		Pass
HT20	MCS0	2	165	5825	20.70	20.35	23.54	30.00		0.70		Pass
HT40	MCS0	2	151	5755	20.00	19.35	22.70	30.00		0.70		Pass
HT40	MCS0	2	159	5795	19.70	19.45	22.59	30.00		0.70		Pass
VHT20	MCS0	2	149	5745	20.80	20.65	23.74	30.00		0.70		Pass
VHT20	MCS0	2	157	5785	20.90	20.75	23.84	30.00		0.70		Pass
VHT20	MCS0	2	165	5825	20.80	20.45	23.64	30.00		0.70		Pass
VHT40	MCS0	2	151	5755	20.10	19.45	22.80	30.00		0.70		Pass
VHT40	MCS0	2	159	5795	19.80	19.55	22.69	30.00		0.70		Pass
VHT80	MCS0	2	155	5775	19.70	19.55	22.64	30.00		0.70		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	149	5745	2.22		9.93	9.85	12.94	30.00		2.55		Pass
11a	6Mbps	2	157	5785	2.22		9.71	9.81	12.82	30.00		2.55		Pass
11a	6Mbps	2	165	5825	2.22		9.69	9.66	12.70	30.00		2.55		Pass

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

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

Band IV 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 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	149	5745	Full	19.63	19.68	34.81	34.61	18.89	18.94	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.68	19.78	34.46	33.46	18.94	18.94	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.68	19.83	36.46	37.21	18.74	18.79	0.5	Pass
HE40	MCS0	2	151	5755	Full	38.76	38.36	59.41	41.15	37.51	37.24	0.5	Pass
HE40	MCS0	2	159	5795	Full	38.26	38.16	50.87	45.61	37.51	37.33	0.5	Pass
HE80	MCS0	2	155	5775	Full	77.32	77.20	119.68	124.16	76.44	75.96	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	149	5745	Full	20.90	20.75	23.84	30.00		0.70		Pass
HE20	MCS0	2	149	5745	26/0	12.70	12.55	15.64	30.00		0.70		Pass
HE20	MCS0	2	149	5745	52/37	15.70	15.55	18.64	30.00		0.70		Pass
HE20	MCS0	2	149	5745	106/53	18.90	18.45	21.69	30.00		0.70		Pass
HE20	MCS0	2	157	5785	Full	21.00	20.85	23.94	30.00		0.70		Pass
HE20	MCS0	2	157	5785	26/4	13.20	12.85	16.04	30.00		0.70		Pass
HE20	MCS0	2	157	5785	52/38	15.60	15.45	18.54	30.00		0.70		Pass
HE20	MCS0	2	157	5785	106/53	18.80	18.55	21.69	30.00		0.70		Pass
HE20	MCS0	2	165	5825	Full	20.90	20.55	23.74	30.00		0.70		Pass
HE20	MCS0	2	165	5825	26/8	12.60	12.15	15.39	30.00		0.70		Pass
HE20	MCS0	2	165	5825	52/40	15.20	14.65	17.94	30.00		0.70		Pass
HE20	MCS0	2	165	5825	106/54	18.80	18.25	21.54	30.00		0.70		Pass
HE40	MCS0	2	151	5755	Full	20.20	19.55	22.90	30.00		0.70		Pass
HE40	MCS0	2	159	5795	Full	19.90	19.65	22.79	30.00		0.70		Pass
HE80	MCS0	2	155	5775	Full	19.80	19.65	22.74	30.00		0.70		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	149	5745	Full	2.22	9.95	9.76	12.96	30.00	2.55	Pass			
HE20	MCS0	2	149	5745	26/0	2.22	9.58	9.60	12.61	30.00	2.55	Pass			
HE20	MCS0	2	149	5745	52/37	2.22	9.93	9.68	12.94	30.00	2.55	Pass			
HE20	MCS0	2	149	5745	106/53	2.22	9.57	9.66	12.67	30.00	2.55	Pass			
HE20	MCS0	2	157	5785	Full	2.22	9.80	9.95	12.96	30.00	2.55	Pass			
HE20	MCS0	2	157	5785	26/4	2.22	9.68	9.79	12.80	30.00	2.55	Pass			
HE20	MCS0	2	157	5785	52/38	2.22	9.61	9.63	12.64	30.00	2.55	Pass			
HE20	MCS0	2	157	5785	106/53	2.22	9.67	9.57	12.68	30.00	2.55	Pass			
HE20	MCS0	2	165	5825	Full	2.22	9.59	9.59	12.60	30.00	2.55	Pass			
HE20	MCS0	2	165	5825	26/8	2.22	9.37	9.26	12.38	30.00	2.55	Pass			
HE20	MCS0	2	165	5825	52/40	2.22	9.33	9.18	12.34	30.00	2.55	Pass			
HE20	MCS0	2	165	5825	106/54	2.22	9.32	9.16	12.33	30.00	2.55	Pass			
HE40	MCS0	2	151	5755	Full	2.22	6.55	6.37	9.56	30.00	2.55	Pass			
HE40	MCS0	2	159	5795	Full	2.22	6.08	5.81	9.09	30.00	2.55	Pass			
HE80	MCS0	2	155	5775	Full	2.22	3.26	3.03	6.27	30.00	2.55	Pass			

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



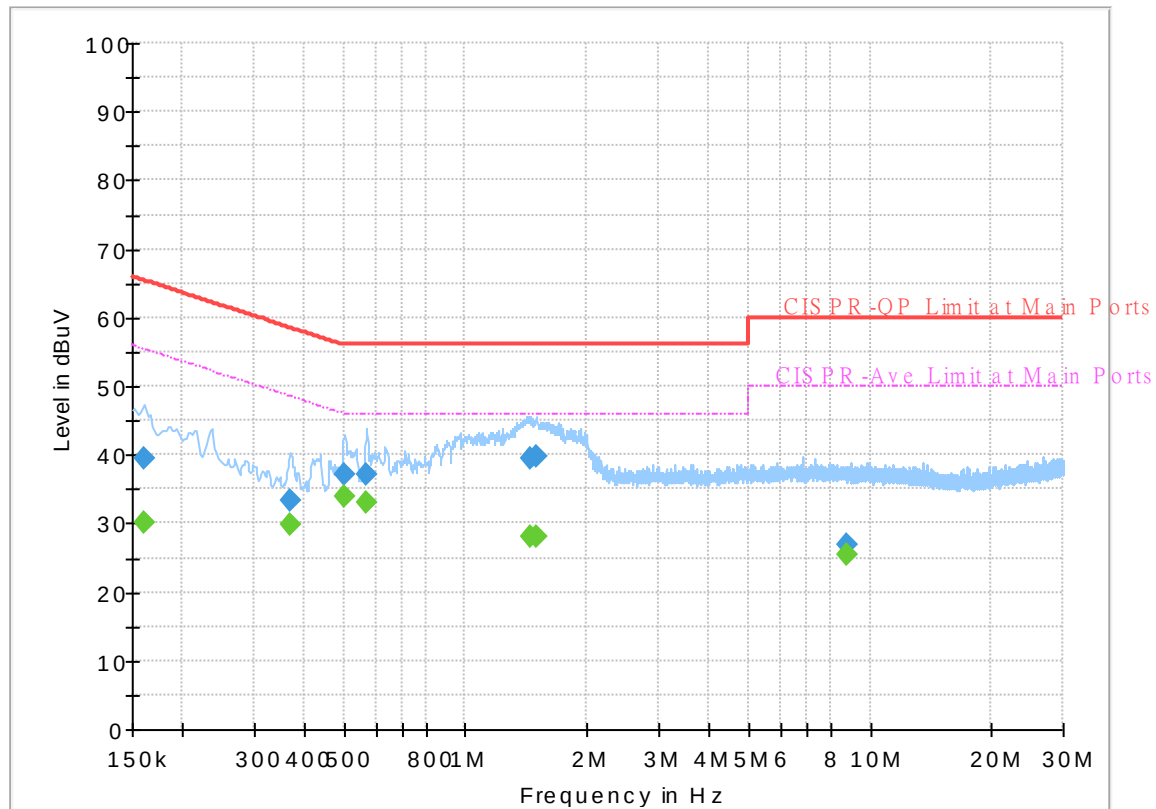
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	Temperature :	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO : 0D2942-04
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



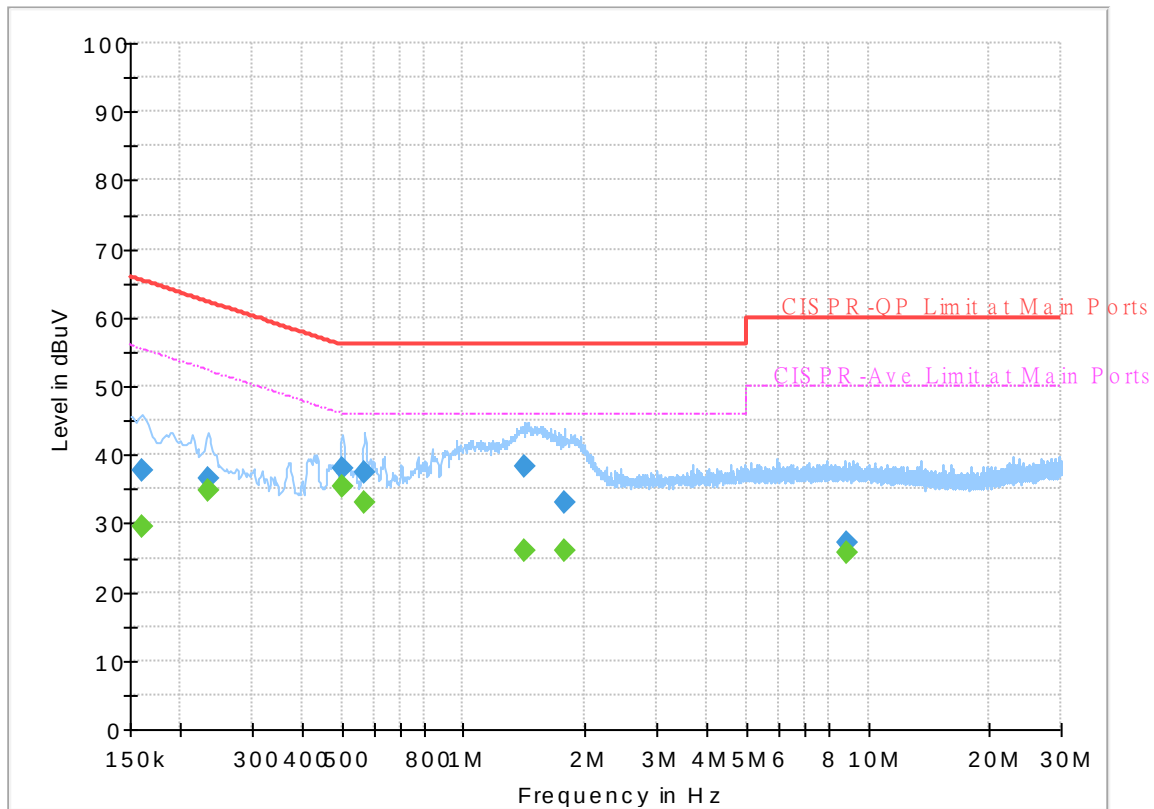
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	30.10	55.40	25.30	L1	OFF	19.5
0.161250	39.37	---	65.40	26.03	L1	OFF	19.5
0.368250	---	29.86	48.54	18.68	L1	OFF	19.5
0.368250	33.19	---	58.54	25.35	L1	OFF	19.5
0.503250	---	33.96	46.00	12.04	L1	OFF	19.7
0.503250	37.11	---	56.00	18.89	L1	OFF	19.7
0.568500	---	32.97	46.00	13.03	L1	OFF	19.7
0.568500	37.24	---	56.00	18.76	L1	OFF	19.7
1.441500	---	27.99	46.00	18.01	L1	OFF	20.0
1.441500	39.43	---	56.00	16.57	L1	OFF	20.0
1.493250	---	28.07	46.00	17.93	L1	OFF	20.0
1.493250	39.67	---	56.00	16.33	L1	OFF	20.0
8.720250	---	25.54	50.00	24.46	L1	OFF	20.0
8.720250	26.97	---	60.00	33.03	L1	OFF	20.0

EUT Information

Report NO : 0D2942-04
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	29.57	55.40	25.83	N	OFF	19.5
0.161250	37.73	---	65.40	27.67	N	OFF	19.5
0.233250	---	34.72	52.33	17.61	N	OFF	19.5
0.233250	36.55	---	62.33	25.78	N	OFF	19.5
0.501000	---	35.43	46.00	10.57	N	OFF	19.7
0.501000	37.94	---	56.00	18.06	N	OFF	19.7
0.568500	---	32.94	46.00	13.06	N	OFF	19.8
0.568500	37.37	---	56.00	18.63	N	OFF	19.8
1.421250	---	25.88	46.00	20.12	N	OFF	20.0
1.421250	38.22	---	56.00	17.78	N	OFF	20.0
1.783500	---	26.00	46.00	20.00	N	OFF	20.0
1.783500	33.06	---	56.00	22.94	N	OFF	20.0
8.828250	---	25.74	50.00	24.26	N	OFF	20.0
8.828250	27.19	---	60.00	32.81	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Daniel Lee, Jacky Hong and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	40~60%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5647.2	53.74	-14.46	68.2	42.92	31.81	6.44	27.43	116	332	P	H
		5693.2	60.32	-39.87	100.19	49.39	31.97	6.42	27.46	116	332	P	H
		5716.6	73.86	-35.99	109.85	62.89	32.03	6.42	27.48	116	332	P	H
		5723.6	82.68	-36.33	119.01	71.7	32.05	6.41	27.48	116	332	P	H
	*	5745	116.3	-	-	105.3	32.09	6.41	27.5	116	332	P	H
	*	5745	108.23	-	-	97.23	32.09	6.41	27.5	116	332	A	H
													H
													H
		5618.2	54.06	-14.14	68.2	43.17	31.86	6.44	27.41	305	114	P	V
		5699.8	60.82	-44.23	105.05	49.86	32	6.42	27.46	305	114	P	V
		5719.4	68.6	-42.03	110.63	57.63	32.04	6.41	27.48	305	114	P	V
		5724.8	79.22	-42.52	121.74	68.24	32.05	6.41	27.48	305	114	P	V
	*	5745	113.28	-	-	102.28	32.09	6.41	27.5	305	114	P	V
	*	5745	105.35	-	-	94.35	32.09	6.41	27.5	305	114	A	V
													V
													V



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5622.4	52.92	-15.28	68.2	42.03	31.86	6.44	27.41	100	334	P	H
		5655.6	56.19	-16.17	72.36	45.37	31.82	6.43	27.43	100	334	P	H
		5715.6	62.09	-47.48	109.57	51.12	32.03	6.42	27.48	100	334	P	H
		5721.8	62.58	-52.32	114.9	51.61	32.04	6.41	27.48	100	334	P	H
	*	5785	115.59	-	-	104.63	32.1	6.39	27.53	100	334	P	H
	*	5785	107.81	-	-	96.85	32.1	6.39	27.53	100	334	A	H
		5850	61.77	-60.43	122.2	50.61	32.3	6.43	27.57	100	334	P	H
		5869.4	53.97	-52.8	106.77	42.73	32.38	6.45	27.59	100	334	P	H
		5903	53.88	-30.56	84.44	42.5	32.51	6.48	27.61	100	334	P	H
		5934.2	57.21	-10.99	68.2	45.7	32.64	6.5	27.63	100	334	P	H
													H
													H
		5649.4	57.24	-10.96	68.2	46.43	31.8	6.44	27.43	300	118	P	V
		5655.4	58.68	-13.53	72.21	47.86	31.82	6.43	27.43	300	118	P	V
		5714.2	61.97	-47.21	109.18	50.99	32.03	6.42	27.47	300	118	P	V
		5723.6	53.72	-65.29	119.01	42.74	32.05	6.41	27.48	300	118	P	V
	*	5785	112.83	-	-	101.87	32.1	6.39	27.53	300	118	P	V
	*	5785	104.76	-	-	93.8	32.1	6.39	27.53	300	118	A	V
		5853.8	51.81	-61.73	113.54	40.62	32.32	6.44	27.57	300	118	P	V
		5858.6	59.27	-50.52	109.79	48.08	32.33	6.44	27.58	300	118	P	V
		5912.6	56.6	-20.75	77.35	45.18	32.55	6.49	27.62	300	118	P	V
		5935.6	55.31	-12.89	68.2	43.79	32.64	6.51	27.63	300	118	P	V
													V
													V



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	114.88	-	-	103.82	32.2	6.41	27.55	100	325	P	H
	*	5825	107.66	-	-	96.6	32.2	6.41	27.55	100	325	A	H
		5852.6	71.18	-45.09	116.27	60.01	32.31	6.43	27.57	100	325	P	H
		5855	68.53	-42.27	110.8	57.35	32.32	6.44	27.58	100	325	P	H
		5880.2	65.96	-35.38	101.34	54.67	32.42	6.46	27.59	100	325	P	H
		5942.8	56.02	-12.18	68.2	44.48	32.67	6.51	27.64	100	325	P	H
													H
													H
	*	5825	112.02	-	-	100.96	32.2	6.41	27.55	298	134	P	V
	*	5825	103.71	-	-	92.65	32.2	6.41	27.55	298	134	A	V
		5850.6	68.98	-51.85	120.83	57.82	32.3	6.43	27.57	298	134	P	V
		5857	70.29	-39.95	110.24	59.1	32.33	6.44	27.58	298	134	P	V
		5876.6	63.92	-40.09	104.01	52.64	32.41	6.46	27.59	298	134	P	V
		5947.4	58.73	-9.47	68.2	47.16	32.69	6.52	27.64	298	134	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	47.92	-26.08	74	52.95	40.07	10.68	55.78	100	0	P	H
		17235	54.37	-13.83	68.2	57.95	40.01	12.61	56.2	100	0	P	H
		17956	55.04	-18.96	74	51.73	46.87	13.16	56.72	135	202	P	H
		17956	46.86	-7.14	54	43.55	46.87	13.16	56.72	135	202	A	H
													H
													H
		11490	47.63	-26.37	74	52.66	40.07	10.68	55.78	100	0	P	V
		17235	57.57	-10.63	68.2	61.15	40.01	12.61	56.2	100	0	P	V
		17978	55.33	-18.67	74	51.38	47.48	13.19	56.72	172	244	P	V
		17978	47.15	-6.85	54	43.2	47.48	13.19	56.72	172	244	A	V
													V
													V
802.11a CH 157 5785MHz		11570	46.67	-27.33	74	51.83	39.89	10.72	55.77	100	0	P	H
		17355	56.15	-12.05	68.2	59.38	40.48	12.71	56.42	100	0	P	H
		17967	55.68	-18.32	74	52.05	47.18	13.17	56.72	131	185	P	H
		17967	47.36	-6.64	54	43.73	47.18	13.17	56.72	131	185	A	H
													H
													H
		11570	46.29	-27.71	74	51.45	39.89	10.72	55.77	100	0	P	V
		17355	60.25	-7.95	68.2	63.48	40.48	12.71	56.42	100	0	P	V
		17967	55.69	-18.31	74	52.06	47.18	13.17	56.72	160	216	P	V
		17967	47.24	-6.76	54	43.61	47.18	13.17	56.72	160	216	A	V
													V
													V



802.11a CH 165 5825MHz		11650	47.4	-26.6	74	52.86	39.55	10.75	55.76	100	0	P	H
		17475	55.25	-12.95	68.2	58.17	40.92	12.8	56.64	100	0	P	H
		17945	56.33	-17.67	74	53.33	46.56	13.16	56.72	155	143	P	H
		17945	46.71	-7.29	54	43.71	46.56	13.16	56.72	155	143	A	H
													H
													H
		11650	48.34	-25.66	74	53.8	39.55	10.75	55.76	100	0	P	V
		17475	62.47	-5.73	68.2	65.39	40.92	12.8	56.64	100	0	P	V
		17967	55.36	-18.64	74	51.73	47.18	13.17	56.72	138	194	P	V
		17967	47.24	-6.76	54	43.61	47.18	13.17	56.72	138	194	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		5615.2	56.77	-11.43	68.2	45.85	31.87	6.45	27.4	100	334	P	H
		5675.6	61.66	-25.52	87.18	50.78	31.9	6.43	27.45	100	334	P	H
		5719.8	75.6	-35.14	110.74	64.63	32.04	6.41	27.48	100	334	P	H
		5723.2	82.91	-35.19	118.1	71.93	32.05	6.41	27.48	100	334	P	H
	*	5745	114.95	-	-	103.95	32.09	6.41	27.5	100	334	P	H
	*	5745	105.32	-	-	94.32	32.09	6.41	27.5	100	334	A	H
													H
													H
		5614.6	57.26	-10.94	68.2	46.34	31.87	6.45	27.4	320	119	P	V
		5689.8	63.23	-34.45	97.68	52.31	31.96	6.42	27.46	320	119	P	V
		5719.2	74.52	-36.06	110.58	63.55	32.04	6.41	27.48	320	119	P	V
		5723.6	82.29	-36.72	119.01	71.31	32.05	6.41	27.48	320	119	P	V
	*	5745	114.63	-	-	103.63	32.09	6.41	27.5	320	119	P	V
	*	5745	104.18	-	-	93.18	32.09	6.41	27.5	320	119	A	V
													V
													V



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		5633.2	54.28	-13.92	68.2	43.43	31.83	6.44	27.42	100	321	P	H
		5681.6	53.89	-37.73	91.62	42.98	31.93	6.43	27.45	100	321	P	H
		5708	60.07	-47.37	107.44	49.1	32.02	6.42	27.47	100	321	P	H
		5720.2	58.36	-52.9	111.26	47.39	32.04	6.41	27.48	100	321	P	H
	*	5785	114.65	-	-	103.69	32.1	6.39	27.53	100	321	P	H
	*	5785	105.34	-	-	94.38	32.1	6.39	27.53	100	321	A	H
		5851.8	54.49	-63.61	118.1	43.32	32.31	6.43	27.57	100	321	P	H
		5870.4	56.7	-49.79	106.49	45.46	32.38	6.45	27.59	100	321	P	H
		5907	55.47	-26.01	81.48	44.07	32.53	6.48	27.61	100	321	P	H
		5929.2	55.93	-12.27	68.2	44.44	32.62	6.5	27.63	100	321	P	H
													H
													H
		5649	55.82	-12.38	68.2	45.01	31.8	6.44	27.43	332	132	P	V
		5685.2	52.86	-41.42	94.28	41.95	31.94	6.42	27.45	332	132	P	V
		5718.8	62.71	-47.75	110.46	51.74	32.04	6.41	27.48	332	132	P	V
		5722.8	52.53	-64.65	117.18	41.55	32.05	6.41	27.48	332	132	P	V
	*	5785	113.29	-	-	102.33	32.1	6.39	27.53	332	132	P	V
	*	5785	103.19	-	-	92.23	32.1	6.39	27.53	332	132	A	V
		5854.8	58	-53.26	111.26	46.82	32.32	6.44	27.58	332	132	P	V
		5856.6	58.93	-51.42	110.35	47.74	32.33	6.44	27.58	332	132	P	V
		5876.6	56.07	-47.94	104.01	44.79	32.41	6.46	27.59	332	132	P	V
		5941.2	55.94	-12.26	68.2	44.41	32.66	6.51	27.64	332	132	P	V
													V
													V



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 165 5825MHz	*	5825	114.86	-	-	103.8	32.2	6.41	27.55	100	323	P	H
	*	5825	105.44	-	-	94.38	32.2	6.41	27.55	100	323	A	H
		5850.8	76.52	-43.86	120.38	65.36	32.3	6.43	27.57	100	323	P	H
		5855.6	67.98	-42.65	110.63	56.8	32.32	6.44	27.58	100	323	P	H
		5879	65.11	-37.12	102.23	53.82	32.42	6.46	27.59	100	323	P	H
		5944	53.3	-14.9	68.2	41.75	32.68	6.51	27.64	100	323	P	H
													H
													H
	*	5825	113.22	-	-	102.16	32.2	6.41	27.55	321	114	P	V
	*	5825	103.07	-	-	92.01	32.2	6.41	27.55	321	114	A	V
		5850.8	74.49	-45.89	120.38	63.33	32.3	6.43	27.57	321	114	P	V
		5855.2	70.41	-40.33	110.74	59.23	32.32	6.44	27.58	321	114	P	V
		5877.8	62.83	-40.29	103.12	51.55	32.41	6.46	27.59	321	114	P	V
		5939	57.57	-10.63	68.2	46.04	32.66	6.51	27.64	321	114	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		11490	47.47	-26.53	74	52.5	40.07	10.68	55.78	100	0	P	H
		17235	54.54	-13.66	68.2	58.12	40.01	12.61	56.2	100	0	P	H
		17934	54.95	-19.05	74	52.27	46.25	13.15	56.72	163	235	P	H
		17934	46.24	-7.76	54	43.56	46.25	13.15	56.72	163	235	A	H
													H
													H
		11490	48.43	-25.57	74	53.46	40.07	10.68	55.78	100	0	P	V
		17235	58.4	-9.8	68.2	61.98	40.01	12.61	56.2	100	0	P	V
		17945	54.82	-19.18	74	51.82	46.56	13.16	56.72	109	192	P	V
		17945	46.33	-7.67	54	43.33	46.56	13.16	56.72	109	192	A	V
													V
													V
802.11ax HE20 Full CH 157 5785MHz		11570	47.16	-26.84	74	52.32	39.89	10.72	55.77	100	0	P	H
		17355	55.03	-13.17	68.2	58.26	40.48	12.71	56.42	100	0	P	H
		17967	54.65	-19.35	74	51.02	47.18	13.17	56.72	196	244	P	H
		17967	46.94	-7.06	54	43.31	47.18	13.17	56.72	196	244	A	H
													H
													H
		11570	47.18	-26.82	74	52.34	39.89	10.72	55.77	100	0	P	V
		17355	59.68	-8.52	68.2	62.91	40.48	12.71	56.42	100	0	P	V
		17967	54.83	-19.17	74	51.2	47.18	13.17	56.72	145	226	P	V
		17967	47.21	-6.79	54	43.58	47.18	13.17	56.72	145	226	A	V
													V
													V



802.11ax HE20 Full CH 165 5825MHz		11650	47.25	-26.75	74	52.71	39.55	10.75	55.76	100	0	P	H
		17475	55.8	-12.4	68.2	58.72	40.92	12.8	56.64	100	0	P	H
		17978	55.67	-18.33	74	51.72	47.48	13.19	56.72	125	228	P	H
		17978	47.43	-6.57	54	43.48	47.48	13.19	56.72	125	228	A	H
													H
													H
		11650	47.75	-26.25	74	53.21	39.55	10.75	55.76	100	0	P	V
		17475	59.62	-8.58	68.2	62.54	40.92	12.8	56.64	100	0	P	V
		17967	55.97	-18.03	74	52.34	47.18	13.17	56.72	129	236	P	V
		17967	47.21	-6.79	54	43.58	47.18	13.17	56.72	129	236	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		5610.2	53.56	-14.64	68.2	42.63	31.88	6.45	27.4	101	322	P	H
		5692.8	63.78	-36.11	99.89	52.85	31.97	6.42	27.46	101	322	P	H
		5717.4	78.79	-31.28	110.07	67.83	32.03	6.41	27.48	101	322	P	H
		5722	78.19	-37.17	115.36	67.22	32.04	6.41	27.48	101	322	P	H
	*	5755	111.92	-	-	100.92	32.1	6.4	27.5	101	322	P	H
	*	5755	102.11	-	-	91.11	32.1	6.4	27.5	101	322	A	H
		5851	53.22	-66.7	119.92	42.06	32.3	6.43	27.57	101	322	P	H
		5862	53.07	-55.77	108.84	41.86	32.35	6.44	27.58	101	322	P	H
		5888.4	54.38	-40.87	95.25	43.06	32.45	6.47	27.6	101	322	P	H
		5935.4	53.12	-15.08	68.2	41.6	32.64	6.51	27.63	101	322	P	H
													H
													H
		5643.4	53.2	-15	68.2	42.37	31.81	6.44	27.42	299	133	P	V
		5697.2	59.25	-43.89	103.14	48.3	31.99	6.42	27.46	299	133	P	V
		5719.8	77.18	-33.56	110.74	66.21	32.04	6.41	27.48	299	133	P	V
		5723.4	77.16	-41.39	118.55	66.18	32.05	6.41	27.48	299	133	P	V
	*	5755	110.88	-	-	99.88	32.1	6.4	27.5	299	133	P	V
	*	5755	99.26	-	-	88.26	32.1	6.4	27.5	299	133	A	V
		5854.6	52.38	-59.33	111.71	41.2	32.32	6.44	27.58	299	133	P	V
		5858.2	52.6	-57.3	109.9	41.41	32.33	6.44	27.58	299	133	P	V
		5907.4	52.2	-28.99	81.19	40.8	32.53	6.48	27.61	299	133	P	V
		5929.8	51.91	-16.29	68.2	40.42	32.62	6.5	27.63	299	133	P	V
													V
													V



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 159 5795MHz		5629.6	53.65	-14.55	68.2	42.78	31.84	6.44	27.41	100	322	P	H
		5666.6	54.88	-25.64	80.52	44.02	31.87	6.43	27.44	100	322	P	H
		5717	60.17	-49.79	109.96	49.21	32.03	6.41	27.48	100	322	P	H
		5725	59.62	-62.58	122.2	48.64	32.05	6.41	27.48	100	322	P	H
	*	5795	112.13	-	-	101.17	32.1	6.39	27.53	100	322	P	H
	*	5795	101.9	-	-	90.94	32.1	6.39	27.53	100	322	A	H
		5851.4	64.7	-54.31	119.01	53.53	32.31	6.43	27.57	100	322	P	H
		5857.2	61.91	-48.27	110.18	50.72	32.33	6.44	27.58	100	322	P	H
		5875.6	56.22	-48.53	104.75	44.96	32.4	6.45	27.59	100	322	P	H
		5933.8	56.64	-11.56	68.2	45.13	32.64	6.5	27.63	100	322	P	H
													H
													H
		5643.2	55.26	-12.94	68.2	44.43	31.81	6.44	27.42	327	136	P	V
		5667.8	54.85	-26.56	81.41	43.99	31.87	6.43	27.44	327	136	P	V
		5717	60.41	-49.55	109.96	49.45	32.03	6.41	27.48	327	136	P	V
		5720.2	57.88	-53.38	111.26	46.91	32.04	6.41	27.48	327	136	P	V
	*	5795	109.07	-	-	98.11	32.1	6.39	27.53	327	136	P	V
	*	5795	98.67	-	-	87.71	32.1	6.39	27.53	327	136	A	V
		5850.6	63.44	-57.39	120.83	52.28	32.3	6.43	27.57	327	136	P	V
		5869.6	58.11	-48.6	106.71	46.87	32.38	6.45	27.59	327	136	P	V
		5923.6	57.69	-11.54	69.23	46.22	32.59	6.5	27.62	327	136	P	V
		5926.2	58.04	-10.16	68.2	46.57	32.6	6.5	27.63	327	136	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		11510	48.03	-25.97	74	53.05	40.07	10.69	55.78	100	0	P	H
		17265	50.56	-17.64	68.2	54.08	40.1	12.64	56.26	100	0	P	H
		17989	55.39	-18.61	74	51.13	47.79	13.19	56.72	169	231	P	H
		17989	45.52	-8.48	54	41.26	47.79	13.19	56.72	169	231	A	H
													H
													H
		11510	48.07	-25.93	74	53.09	40.07	10.69	55.78	100	0	P	V
		17265	53.3	-14.9	68.2	56.82	40.1	12.64	56.26	100	0	P	V
		17978	55.71	-18.29	74	51.76	47.48	13.19	56.72	114	172	P	V
		17978	45.78	-8.22	54	41.83	47.48	13.19	56.72	114	172	A	V
													V
													V
802.11ax HE40 Full CH 159 5795MHz		11590	47.04	-26.96	74	52.25	39.83	10.73	55.77	100	0	P	H
		17385	50.82	-17.38	68.2	53.95	40.62	12.73	56.48	100	0	P	H
		18000	55.52	-18.48	74	50.94	48.1	13.2	56.72	180	211	P	H
		18000	45.53	-8.47	54	40.95	48.1	13.2	56.72	180	211	A	H
													H
													H
		11590	47.38	-26.62	74	52.59	39.83	10.73	55.77	100	0	P	V
		17385	54.28	-13.92	68.2	57.41	40.62	12.73	56.48	100	0	P	V
		17989	55.44	-18.56	74	51.18	47.79	13.19	56.72	103	155	P	V
		17989	45.48	-8.52	54	41.22	47.79	13.19	56.72	103	155	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		5649.2	58.68	-9.52	68.2	47.87	31.8	6.44	27.43	100	334	P	H
		5695.8	74.44	-27.66	102.1	63.5	31.98	6.42	27.46	100	334	P	H
		5718.8	78.26	-32.2	110.46	67.29	32.04	6.41	27.48	100	334	P	H
		5723.4	78.18	-40.37	118.55	67.2	32.05	6.41	27.48	100	334	P	H
	*	5775	110.04	-	-	99.06	32.1	6.4	27.52	100	334	P	H
	*	5775	100.18	-	-	89.2	32.1	6.4	27.52	100	334	A	H
		5852	74.54	-43.1	117.64	63.37	32.31	6.43	27.57	100	334	P	H
		5859	75.22	-34.46	109.68	64.02	32.34	6.44	27.58	100	334	P	H
		5878.4	65.81	-36.86	102.67	54.53	32.41	6.46	27.59	100	334	P	H
		5930.8	56.69	-11.51	68.2	45.2	32.62	6.5	27.63	100	334	P	H
													H
													H
		5645.2	56.82	-11.38	68.2	45.99	31.81	6.44	27.42	300	132	P	V
		5699.4	71.2	-33.56	104.76	60.24	32	6.42	27.46	300	132	P	V
		5719.2	76.04	-34.54	110.58	65.07	32.04	6.41	27.48	300	132	P	V
		5721.8	76.58	-38.32	114.9	65.61	32.04	6.41	27.48	300	132	P	V
	*	5775	107.25	-	-	96.27	32.1	6.4	27.52	300	132	P	V
	*	5775	96.97	-	-	85.99	32.1	6.4	27.52	300	132	A	V
		5852.8	71.9	-43.92	115.82	60.73	32.31	6.43	27.57	300	132	P	V
		5858.4	70.47	-39.38	109.85	59.28	32.33	6.44	27.58	300	132	P	V
		5876.8	63.21	-40.65	103.86	51.93	32.41	6.46	27.59	300	132	P	V
		5936.2	53.59	-14.61	68.2	42.07	32.64	6.51	27.63	300	132	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		11550	46.81	-27.19	74	51.92	39.95	10.71	55.77	100	0	P	H
		17325	48.31	-19.89	68.2	51.66	40.33	12.69	56.37	100	0	P	H
		17989	55.44	-18.56	74	51.18	47.79	13.19	56.72	173	229	P	H
		17989	45.52	-8.48	54	41.26	47.79	13.19	56.72	173	229	A	H
													H
													H
		11550	47.15	-26.85	74	52.26	39.95	10.71	55.77	100	0	P	V
		17325	49.84	-18.36	68.2	53.19	40.33	12.69	56.37	100	0	P	V
		17989	55.69	-18.31	74	51.43	47.79	13.19	56.72	122	174	P	V
		17989	45.78	-8.22	54	41.52	47.79	13.19	56.72	122	174	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

WIFI 802.11a (SHF @ 1m)

[illegible]



Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		30.97	21.29	-18.71	40	29.15	23.85	0.52	32.23	-	-	P	H
		95.96	19.57	-23.93	43.5	35.48	15.4	0.92	32.23	-	-	P	H
		128.94	19.95	-23.55	43.5	33.6	17.53	1.06	32.24	-	-	P	H
		463.59	24.47	-21.53	46	31	23.37	1.9	31.8	-	-	P	H
		778.84	30.14	-15.86	46	31.33	27.77	2.52	31.48	-	-	P	H
		943.74	32.19	-13.81	46	30.38	29.85	2.78	30.82	100	0	P	H
													H
													H
													H
													H
													H
													H
		31.94	30.07	-9.93	40	38.41	23.36	0.53	32.23	100	0	P	V
		93.05	25.26	-18.24	43.5	41.46	15.15	0.89	32.24	-	-	P	V
		124.09	22.13	-21.37	43.5	35.77	17.56	1.04	32.24	-	-	P	V
		567.38	27.35	-18.65	46	31.72	25.88	2.12	32.37	-	-	P	V
		919.49	31.06	-14.94	46	30.34	28.92	2.75	30.95	-	-	P	V
		955.38	32.19	-13.81	46	29.58	30.56	2.81	30.76	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



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 over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

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. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 2390MHz:

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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

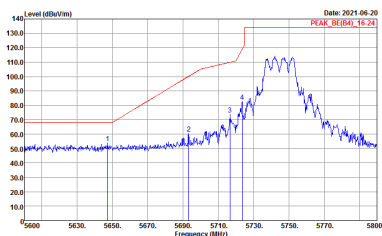
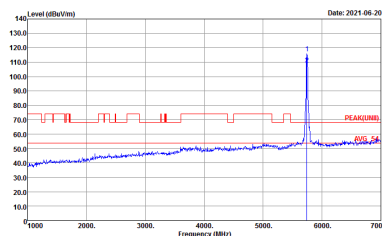
Both peak and average measured complies with the limit line, so test result is “PASS”.



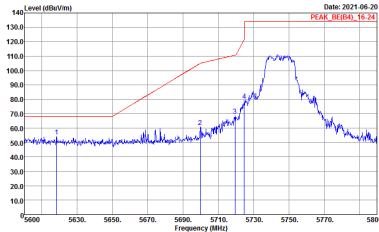
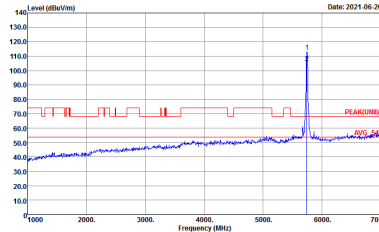
Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Daniel Lee, Jacky Hong and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	40~60%

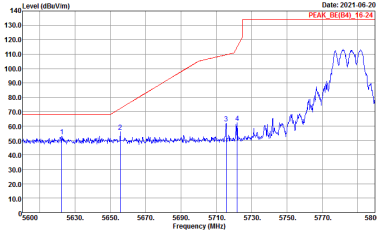
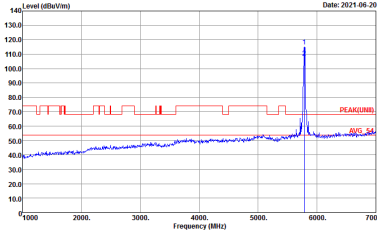
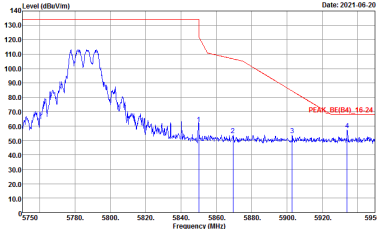
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

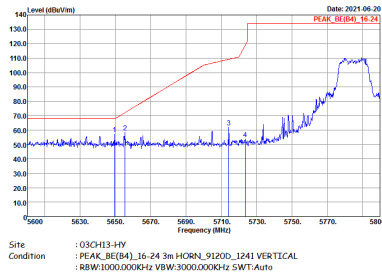
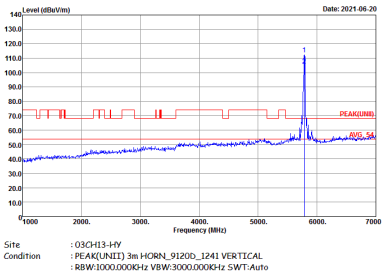
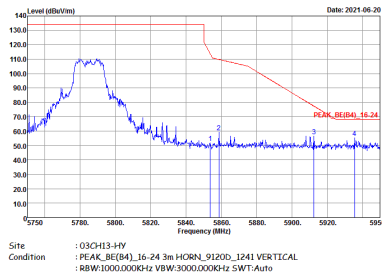


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_B4(16.24) 16.24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_UWB(1) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

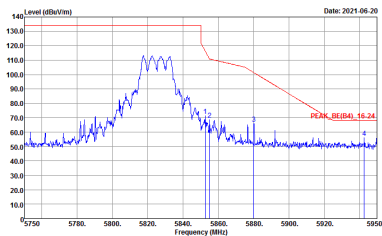
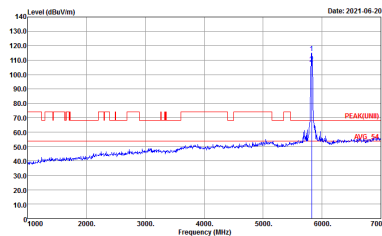


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_FUND 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

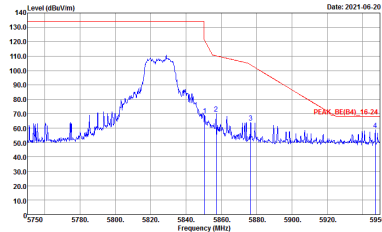
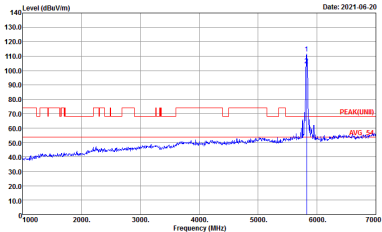


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



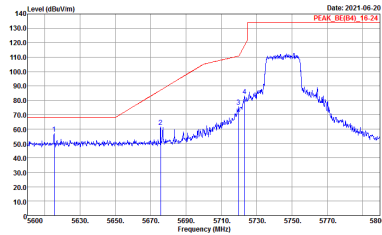
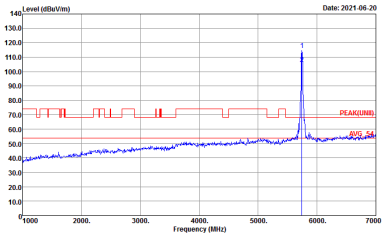
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



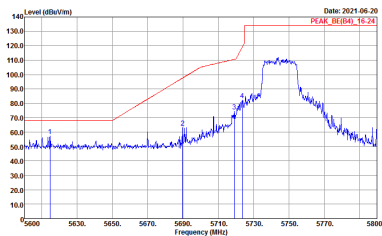
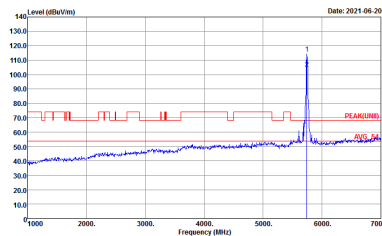
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_8E(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(LINE1) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNII)_3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

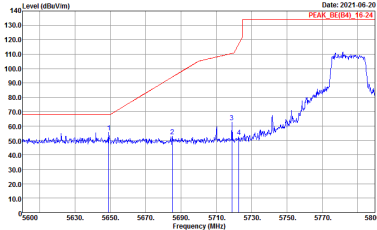
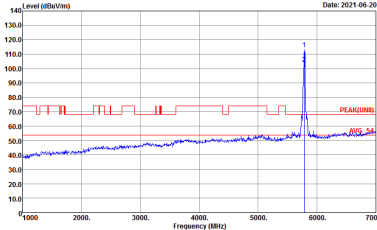
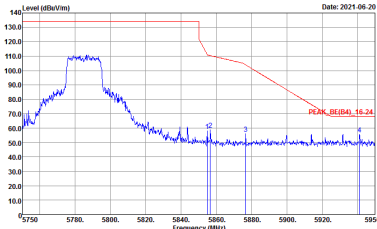


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_SE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
4+3	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
4+3	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK_85(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



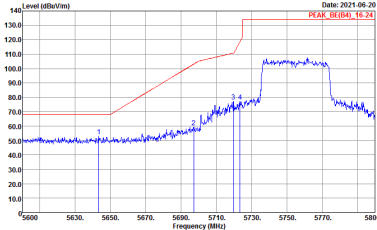
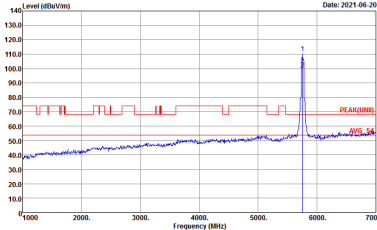
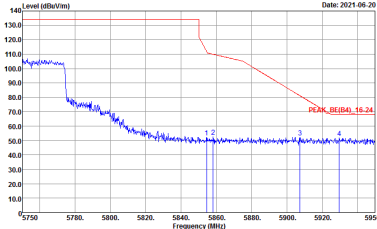
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
4+3	Vertical	Fundamental
Peak	Level (dBuV/m) Date: 2021-06-20 PEAK: 116.24 Site : 03CH13-HY Condition : PEAK: 116.24 3m HORN_91200_1241 VERTICAL RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto	Level (dBuV/m) Date: 2021-06-20 PEAK: 116.24 Site : 03CH13-HY Condition : PEAK: 116.24 3m HORN_91200_1241 VERTICAL RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto



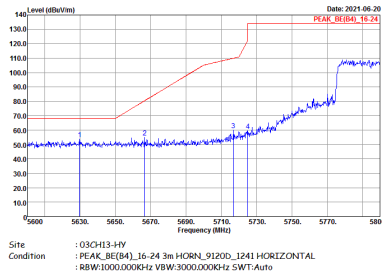
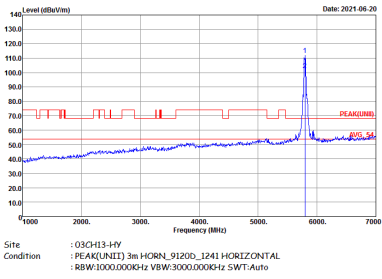
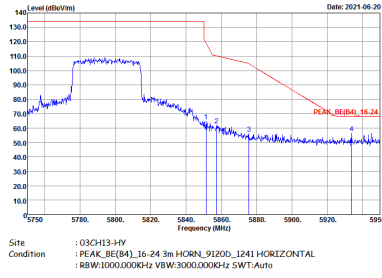
Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
4+3	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK_UNI(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

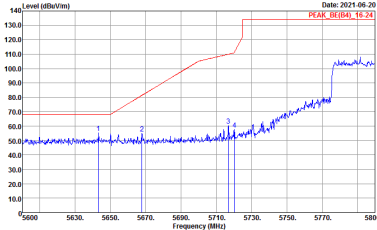
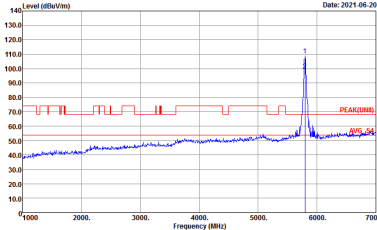
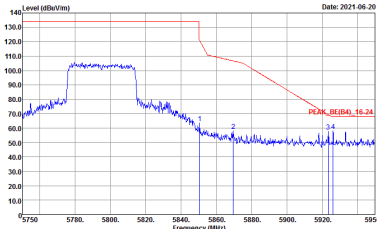


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_FUND(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



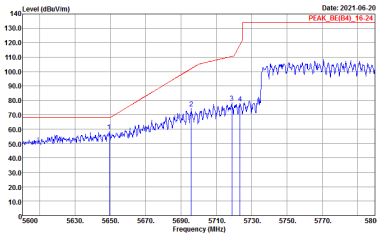
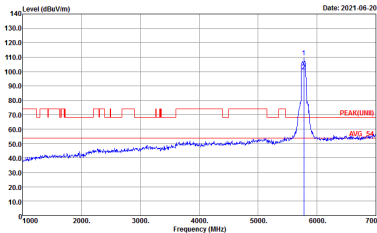
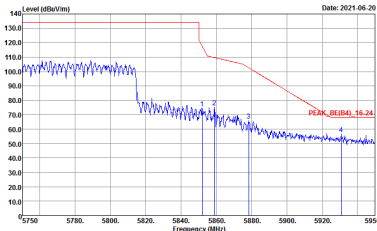
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

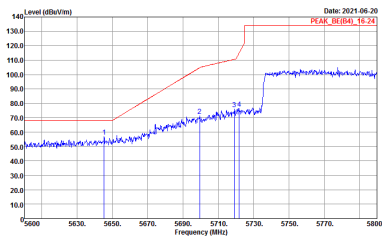
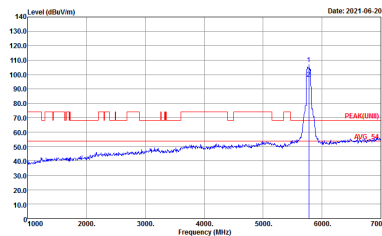
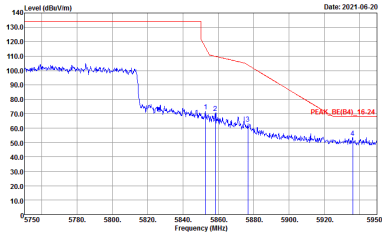


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



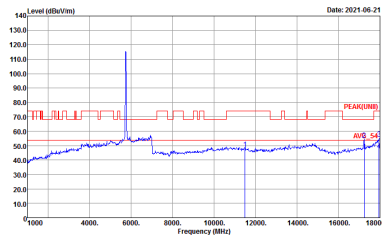
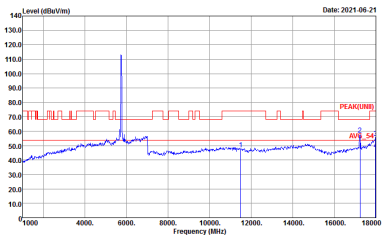
Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL



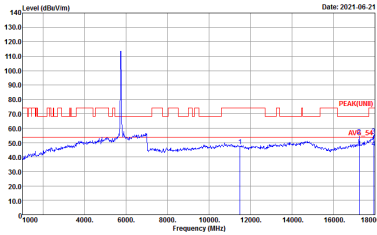
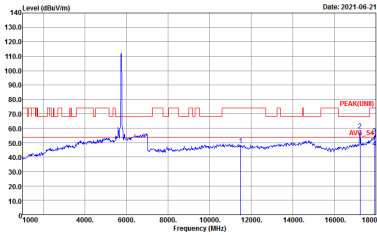
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-06-21 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL	Level (dBuV/m) Date: 2021-06-21 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-06-21 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL	Level (dBuV/m) Date: 2021-06-21 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL



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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL



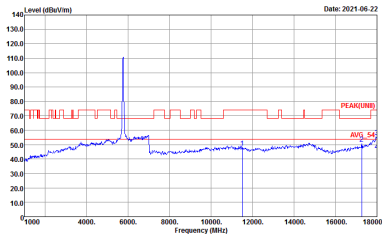
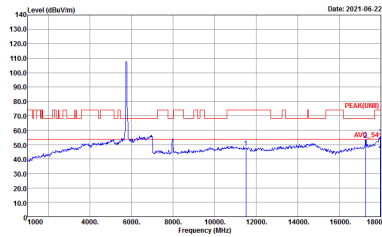
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-06-21 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL	Level (dBuV/m) Date: 2021-06-21 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL



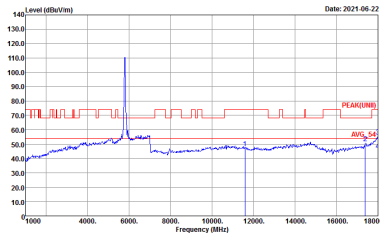
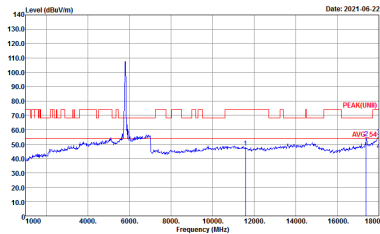
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-06-21 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL	Level (dBuV/m) Date: 2021-06-21 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL



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

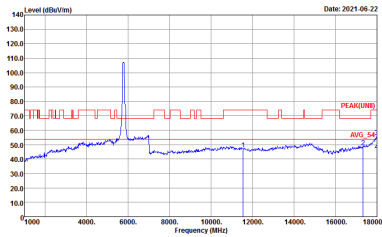
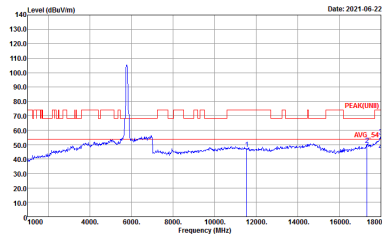
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1241 VERTICAL



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

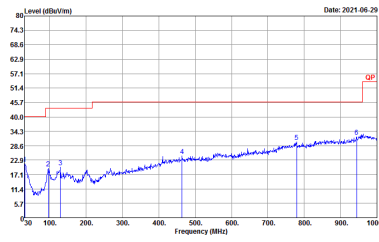
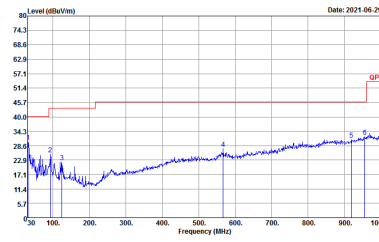
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL



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

WIFI	5GHz WIFI	
ANT	802.11a SHF	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-07-27 PEAK (UNIT) Avg. 54 Site : 03CH13-HY Condition : PEAK(UNIT) 1m SHF_00991_210512 HORIZONTAL	Level (dBuV/m) Date: 2021-07-27 PEAK (UNIT) Avg. 54 Site : 03CH13-HY Condition : PEAK(UNIT) 1m SHF_00991_210512 VERTICAL

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

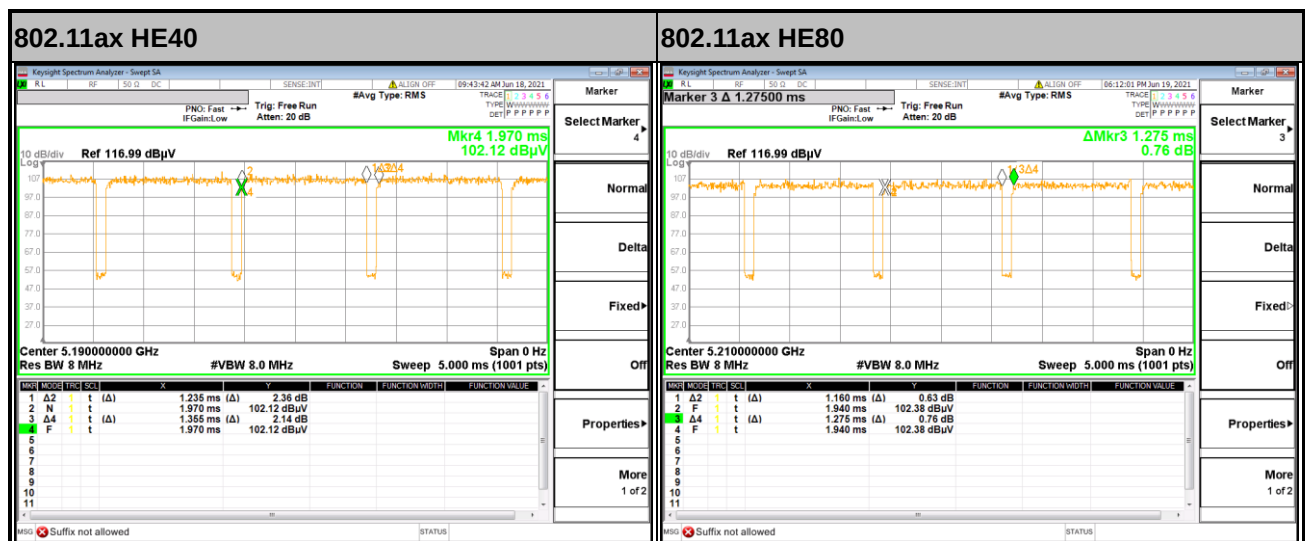
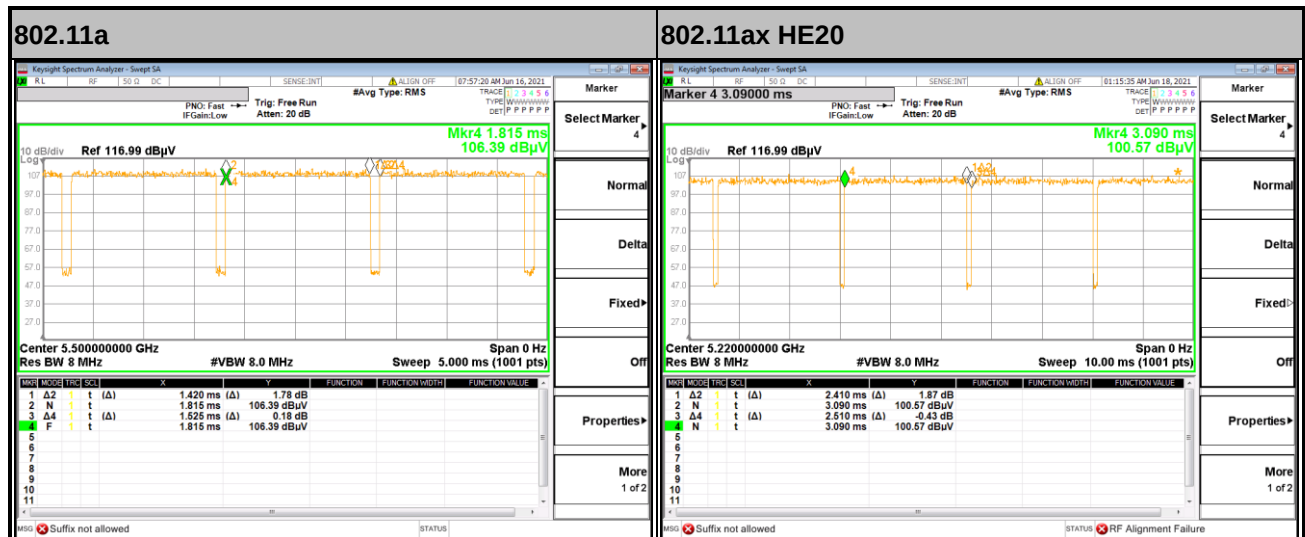
WIFI	5GHz WIFI	
ANT	802.11a LF	
4+3	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m B1LOG_40103 HORIZONTAL	 Site : 03CH13-HY Condition : QP 3m B1LOG_40103 VERTICAL



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
4+3	802.11a	93.11	1420	0.70	1kHz
4+3	5GHz 802.11ax HE20 Full RU	96.02	2410	0.41	1kHz
4+3	5GHz 802.11ax HE40 Full RU	91.14	1235	0.81	1kHz
4+3	5GHz 802.11ax HE80 Full RU	90.98	1160	0.86	1kHz

MIMO <Ant. 4+3>



—THE END—