FCC RADIO TEST REPORT

FCC ID	**:**	**2AG7G-F1A**
Equipment	**:**	**Plume Adaptive WiFi**
Brand Name	**:**	**Plume Design Inc**
Model Name	**:**	**F1A**
Applicant	**:**	**Plume Design Inc** **290 S California Ave, Suite 200, Palo Alto, CA 94306, USA**
Manufacturer	**:**	**Plume Design Inc** **290 S California Ave, Suite 200, Palo Alto, CA 94306, USA**
Standard	**:**	**FCC Part 15 Subpart E §15.407**

The product was received on Apr. 27, 2020 and testing was started from May 27, 2020 and completed on Sep. 17, 2020. 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.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR031701D	01	Initial issue of report	Sep. 22, 2020
FR031701D	02	Revise Antenna type	Sep. 25, 2020
FR031701D	03	Revise data rate of 802.11ax mode	Sep. 30, 2020
FR031701D	04	Revise Equipment Name	Nov. 04, 2020

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 1.22 dB at 5649.200 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 2.52 dB at 0.449 MHz
3.6	15.407 (c)	Automatically Discontinue Transmission	Pass	-
3.7	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: Wii Chang

Report Producer: Dara Chiu

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and UWB.

Product Specification subjective to this standard	
Antenna Type	WLAN <2400 MHz ~ 2483.5 MHz> <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna <5180 MHz ~ 5320 MHz> <Ant. 1>: IFA/Slot Antenna <Ant. 2>: IFA/Slot Antenna <Ant. 3>: IFA/Slot Antenna <Ant. 4>: IFA/Slot Antenna <5500 MHz ~ 5825 MHz> <Ant. 1>: IFA/Slot Antenna <Ant. 2>: IFA/Slot Antenna Bluetooth: Slot Antenna UWB: <Ant. 1>: IFA Antenna <Ant. 2>: IFA Antenna

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.52 , Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH16-HY

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

FCC designation No.: TW1190 and TW0007

1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- 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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane and Y plane with RJ-45) were recorded in this report.

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

2.1 Carrier Frequency and Channel

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

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40, 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

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

<CDD Mode>

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

<TXBF Mode>

Modulation	Data Rate
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 On + LAN Link + WAN Link

<CDD Mode>

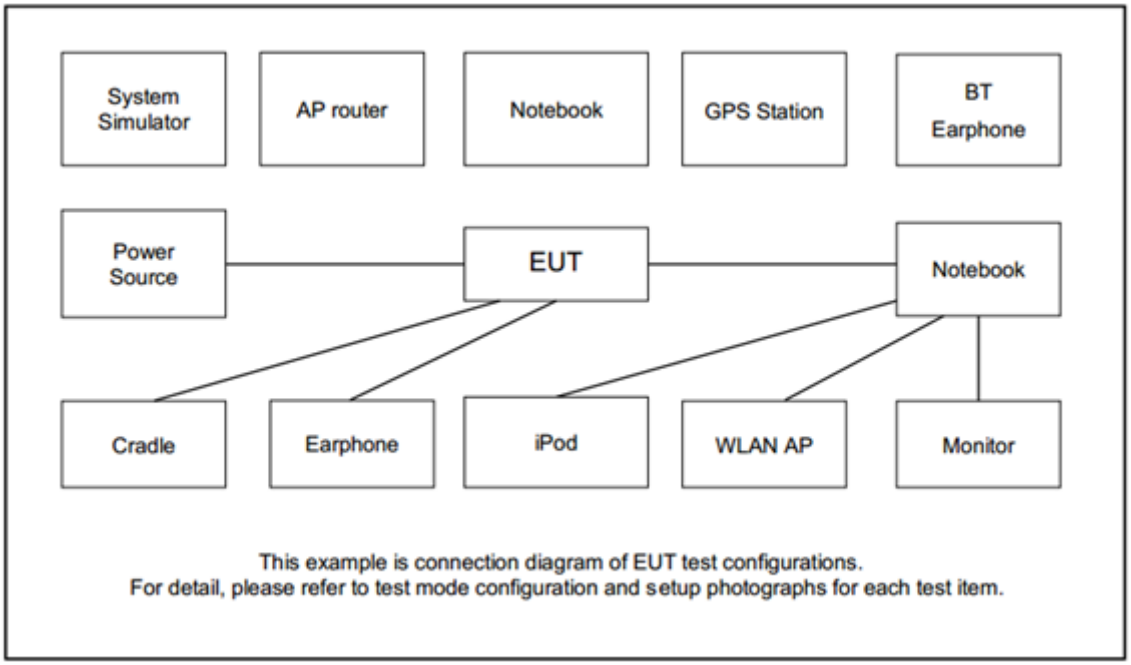
Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

<TXBF Mode>

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

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P：Unshielded, 1.2m DC O/P：Shielded, 1.8m
2.	Smart Phone	SAMSUNG	SM-A730F/DS	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “accessMTool_V3.1.0.1” 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.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “PUTTY_Release 0.62” software tool was used to enable the EUT to transmit signals continuously.

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 10dB 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.

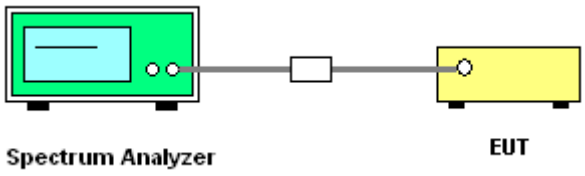
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW ≥ 3 x 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

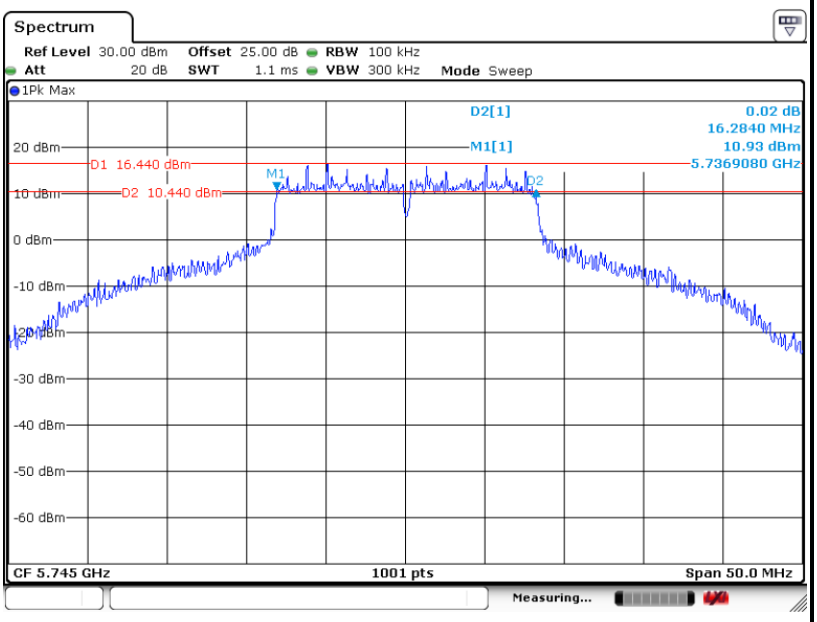


3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

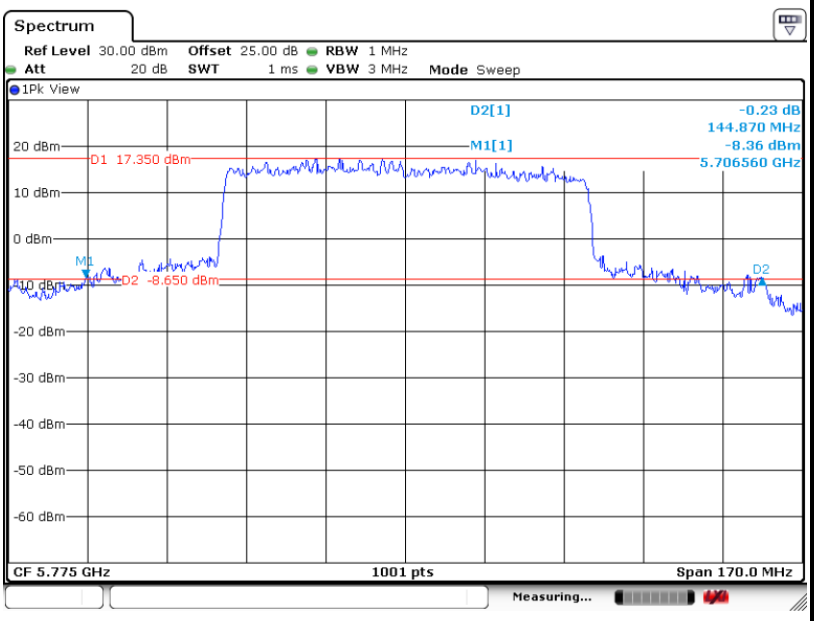
Please refer to Appendix A.

<CDD Mode>

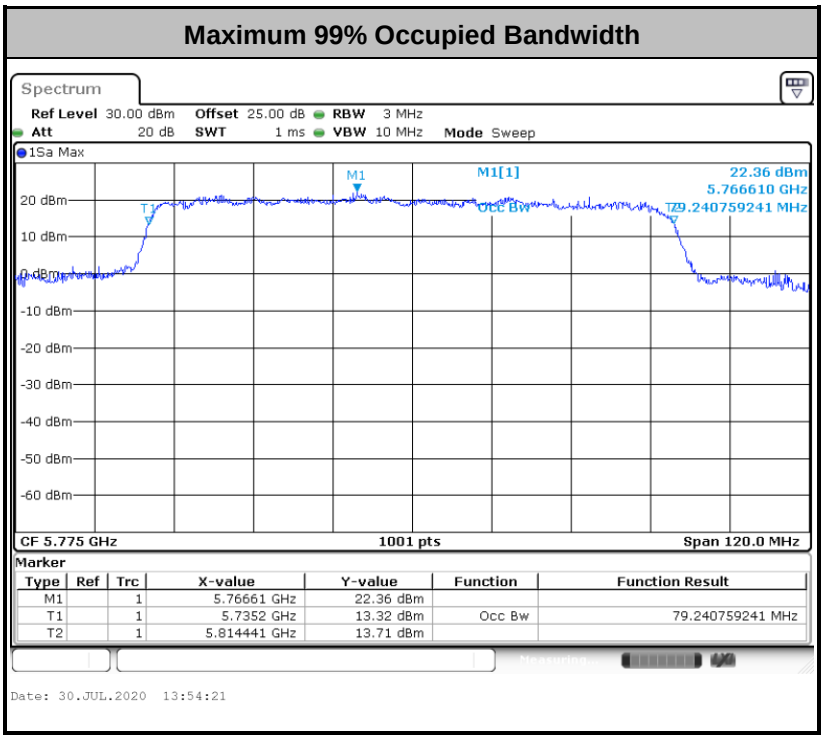
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



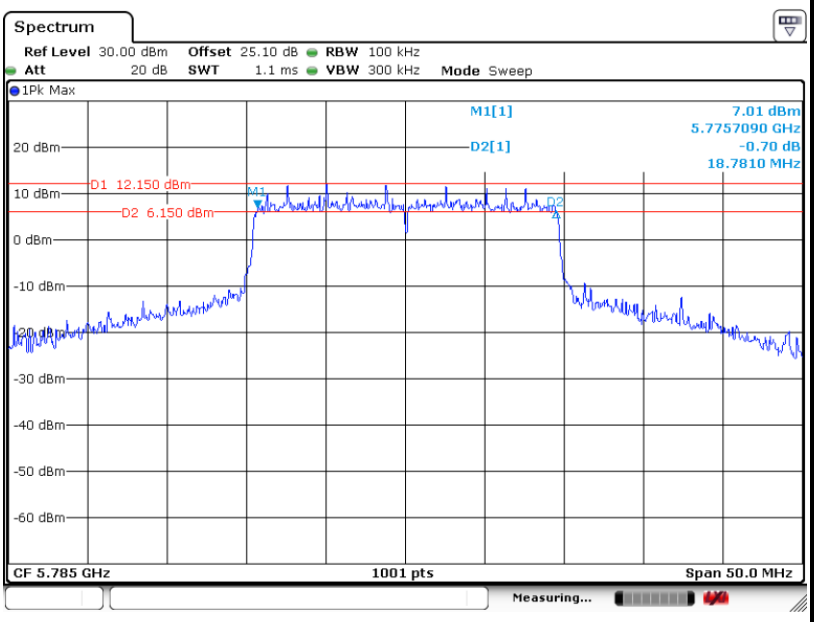
Maximum 99% Occupied Bandwidth



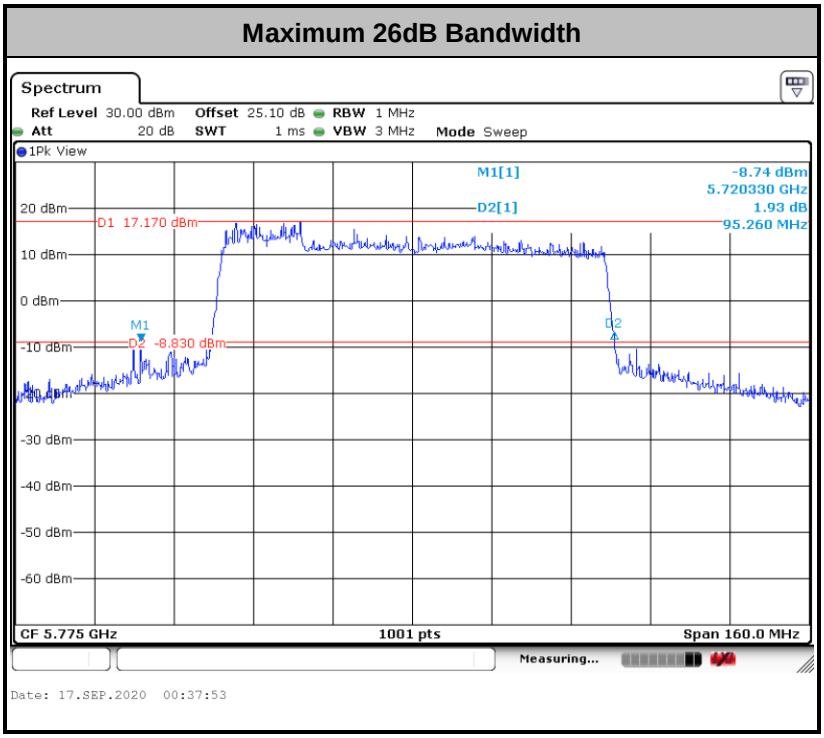
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Modes>

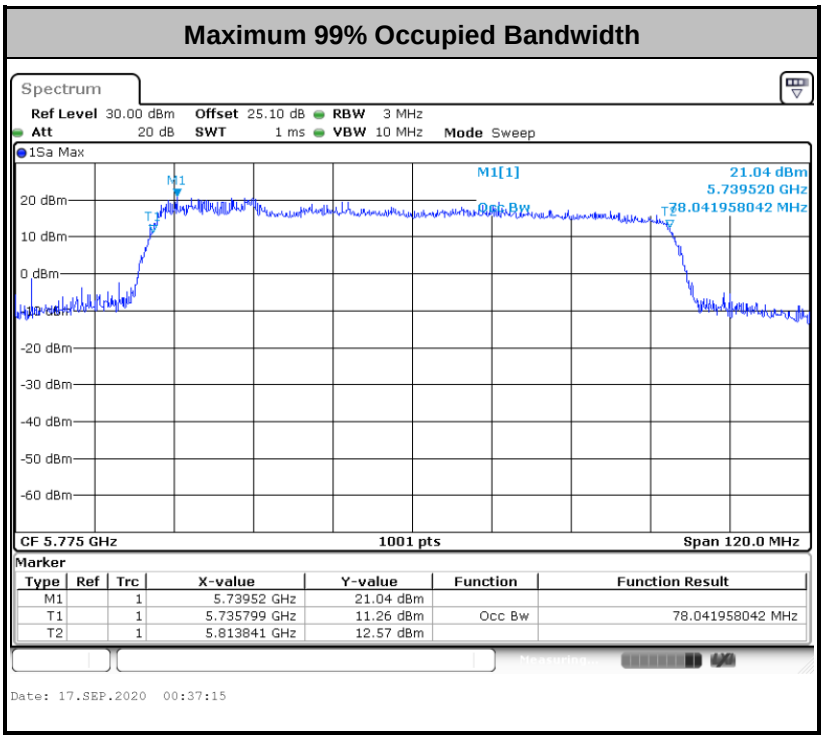
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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.

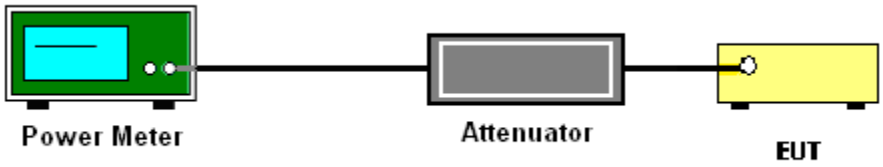
3.2.3 Test Procedures

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 = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × 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 PPSD and record it.

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

   Method (c): Measure and add 10 log(N_{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.

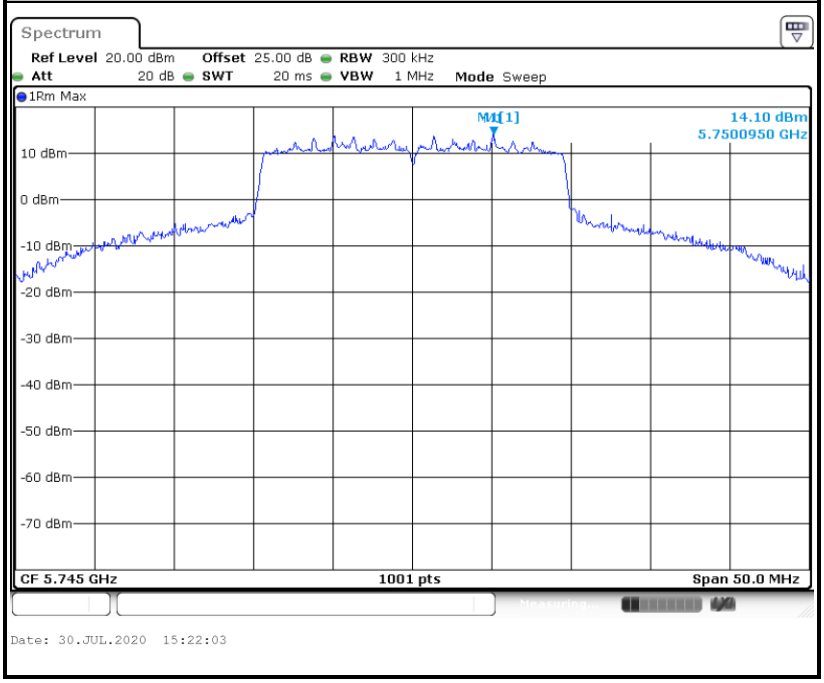
3.3.4 Test Setup

3.3.5 Test Result of Power Spectral Density

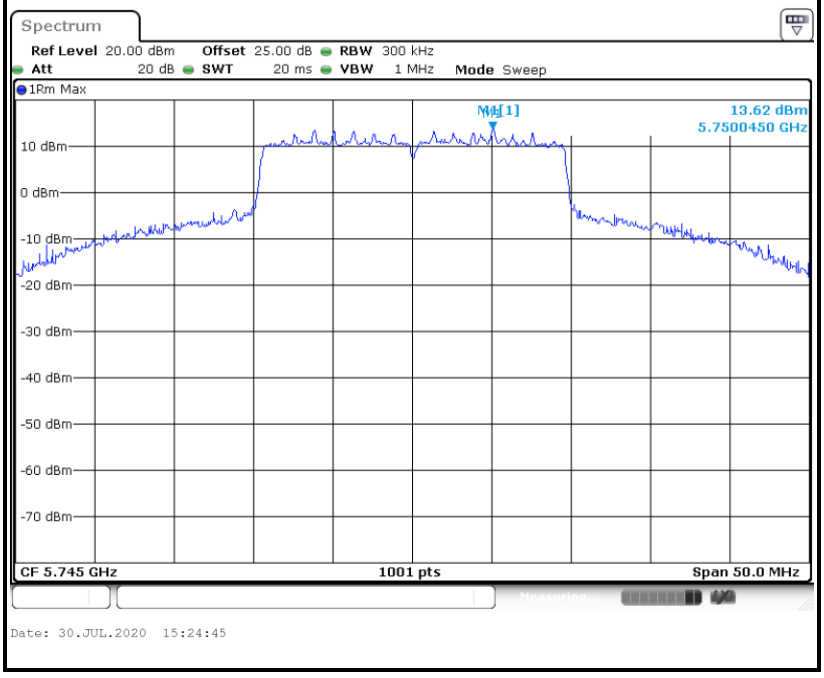
Please refer to Appendix A.

<CDD Modes>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1

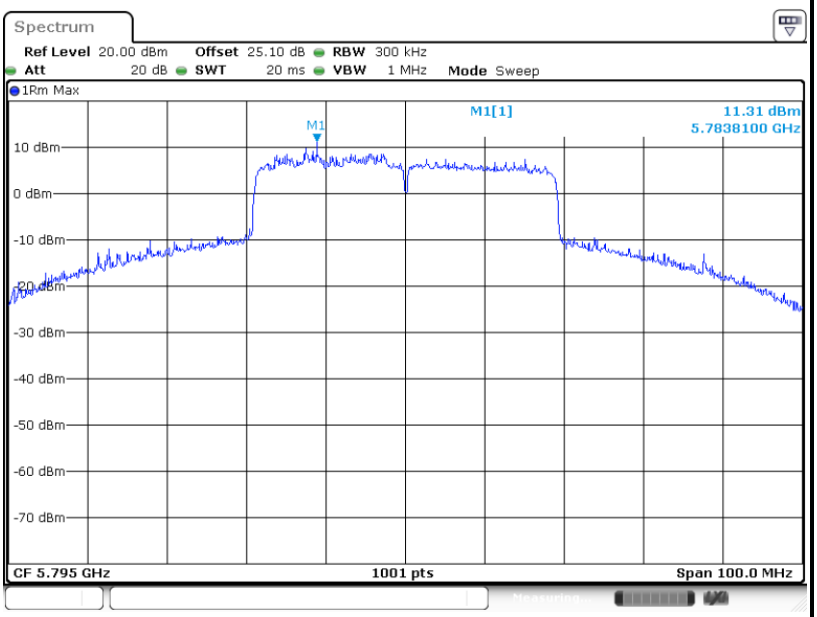


Worst Case Power Density (dBm/MHz) for MIMO Ant. 2

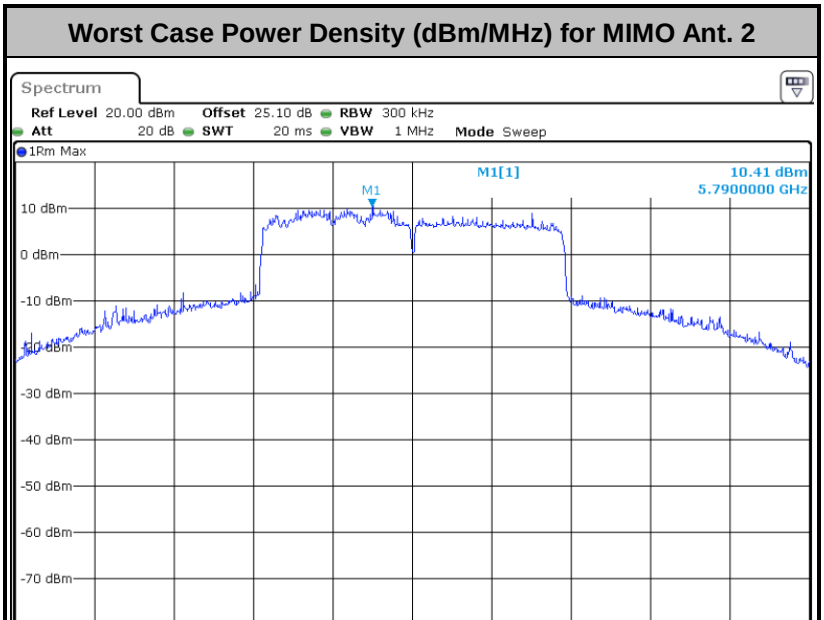


<TXBF Modes>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



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.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/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 1000MHz

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

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

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

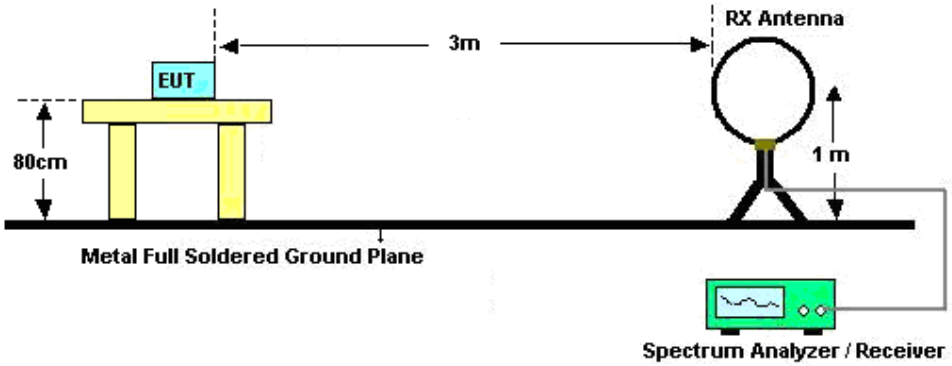
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 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 1GHz and 1.5 meter for frequency above 1GHz 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 1GHz, 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 1GHz, the emission level of the EUT in peak mode was 20dB 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.

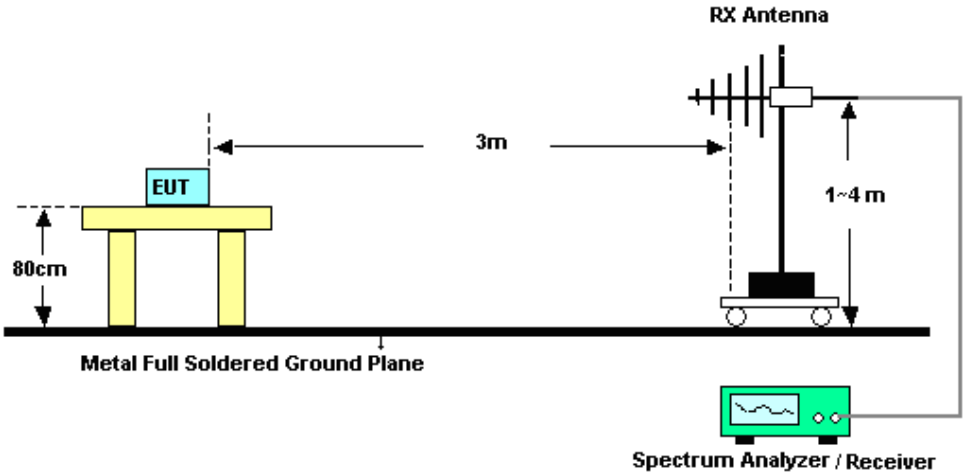
3.4.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

<CDD Mode>



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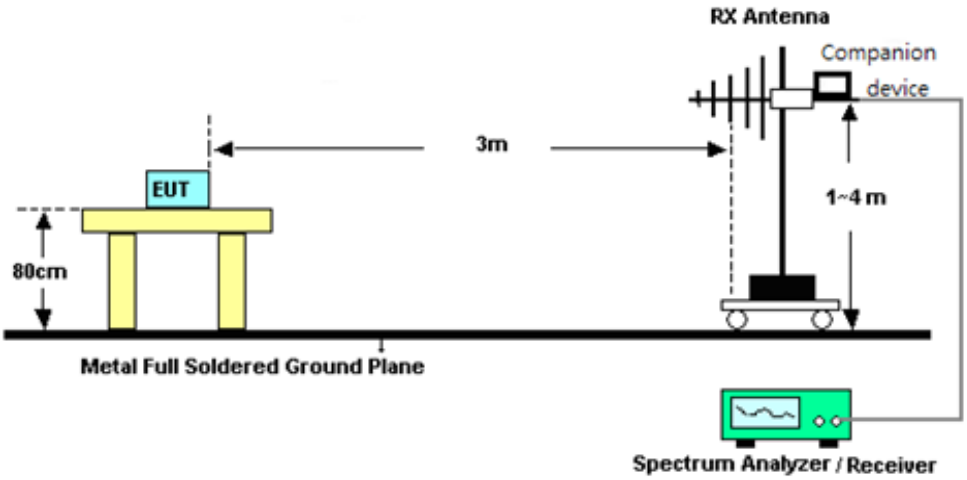
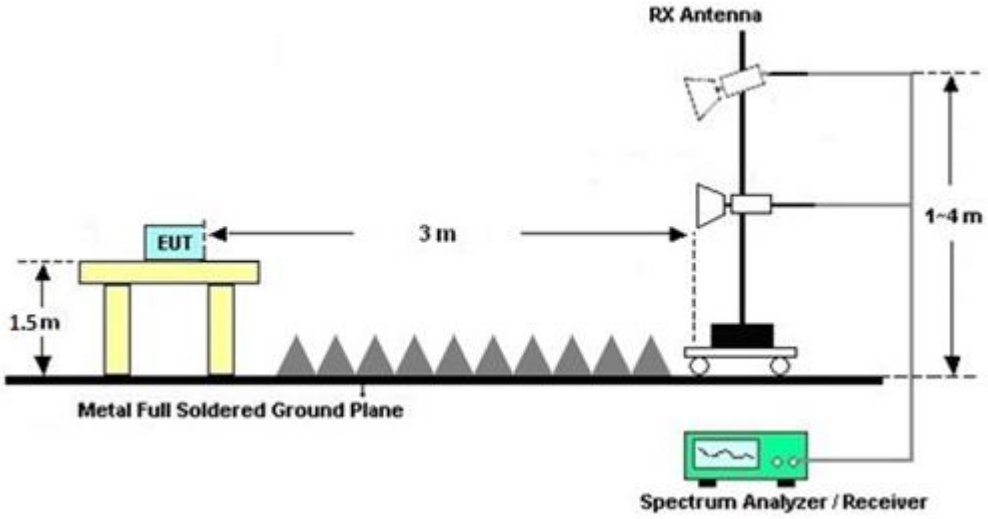


For radiated emissions from 1GHz to 18GHz

<CDD Mode>



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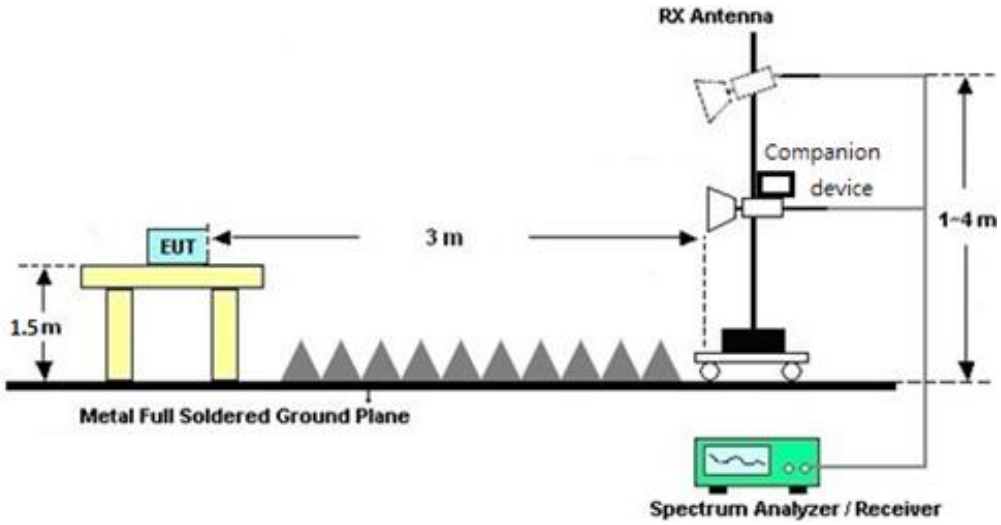
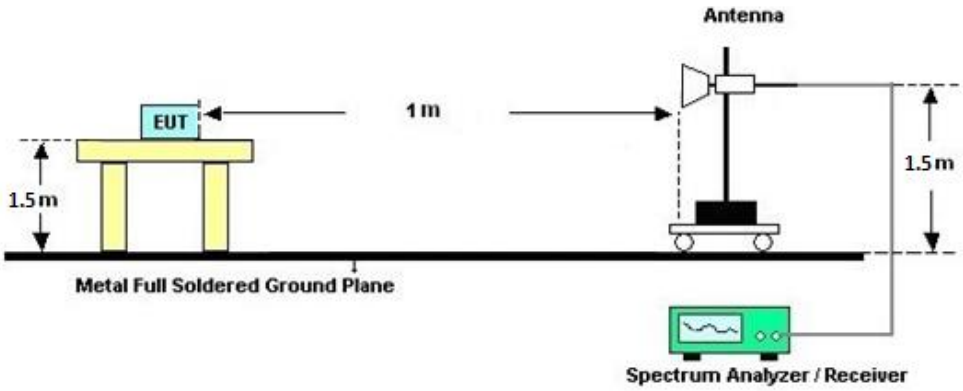


For radiated emissions above 18GHz



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 a comparison data 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.

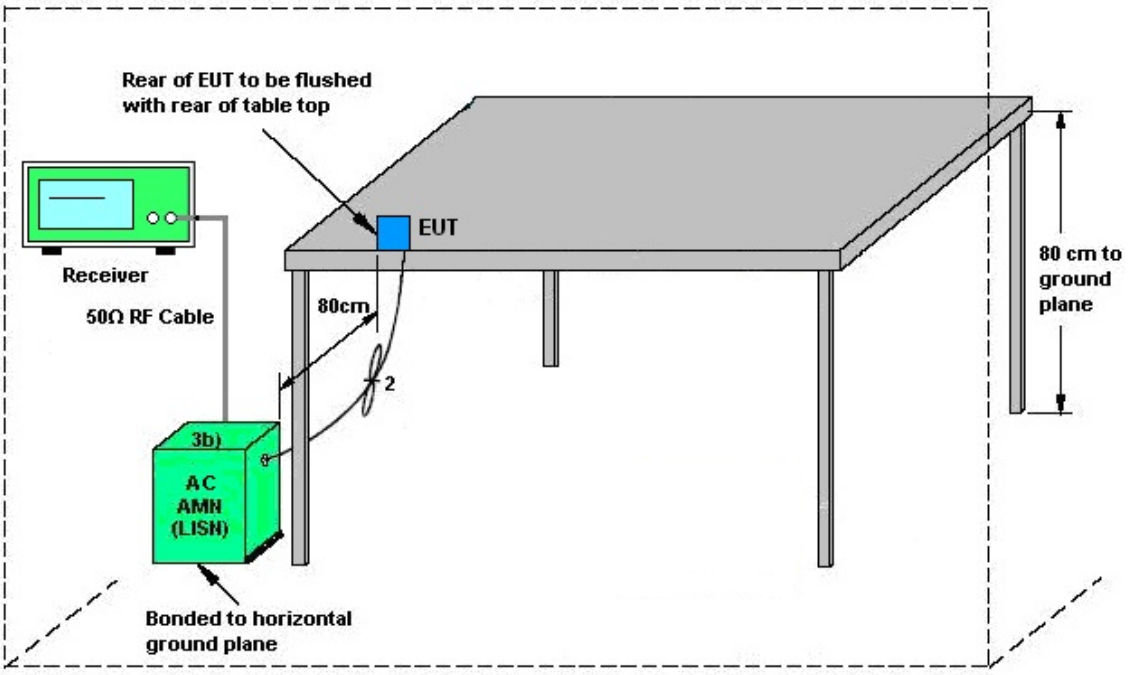
3.5.2 Measuring Instruments

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 should 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



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.7 Antenna Requirements

3.7.1 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.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

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

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT 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 for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant. 1 (dBi)	Ant. 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	2.80	2.40	2.80	5.61	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)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.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	2.80	2.40	5.61	5.61	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Jun. 29, 2020 ~ Sep. 17, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 23, 2019	Jun. 29, 2020 ~ Sep. 17, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	Jun. 29, 2020 ~ Sep. 17, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Jun. 29, 2020 ~ Sep. 17, 2020	Mar. 16, 2021	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Jun. 05, 2020 ~ Sep. 11, 2020	Jan. 08, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL6111D&00802N1D01N-06	47020&06	30MHz to 1GHz	Oct. 12, 2019	Jun. 05, 2020 ~ Sep. 11, 2020	Oct. 11, 2020	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 19, 2019	Jun. 05, 2020 ~ Sep. 11, 2020	Sep. 18, 2020	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170980	18GHz~40GHz	Jan. 10, 2020	Jun. 05, 2020 ~ Sep. 11, 2020	Jan. 09, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Oct. 01. 2019	Jun. 05, 2020 ~ Sep. 11, 2020	Sep. 30. 2020	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000 55006	1GHz~18GHz	May 07, 2020	Jun. 05, 2020 ~ Sep. 11, 2020	May 06, 2021	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~40GHz	Dec. 13, 2019	Jun. 05, 2020 ~ Sep. 11, 2020	Dec. 12, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 11, 2019	Jun. 05, 2020 ~ Sep. 11, 2020	Dec. 10, 2020	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 05, 2019	Jun. 05, 2020 ~ Sep. 11, 2020	Dec. 04, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 30, 2019	Jun. 05, 2020 ~ Sep. 11, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 30, 2019	Jun. 05, 2020 ~ Sep. 11, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 30, 2019	Jun. 05, 2020 ~ Sep. 11, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Jun. 05, 2020 ~ Sep. 11, 2020	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jun. 05, 2020 ~ Sep. 11, 2020	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 05, 2020 ~ Sep. 11, 2020	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 05, 2020 ~ Sep. 11, 2020	N/A	Radiation (03CH16-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 27, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	May 27, 2020	Nov. 14, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	May 27, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 27, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	May 27, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	May 27, 2020	Jan. 01, 2021	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.3**

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

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

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.3**

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

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Eason Huang and Kai Liao	Temperature:	21~25	°C
Test Date:	2020/6/29~09/17	Relative Humidity:	51~54	%

<CDD Mode>

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

Band IV single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	26.92	-	45.60	-	16.33	-	0.5	Pass
11a	6Mbps	1	157	5785	27.02	-	45.60	-	16.33	-	0.5	Pass
11a	6Mbps	1	165	5825	27.62	-	46.00	-	16.33	-	0.5	Pass

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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	149	5745	26.12	25.42	44.81	44.76	16.28	16.28	0.5	Pass
11a	6Mbps	2	157	5785	26.12	25.92	44.91	44.76	16.33	16.33	0.5	Pass
11a	6Mbps	2	165	5825	27.22	26.37	45.90	45.41	16.33	16.33	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	26.90	-		30.00	-	2.80	2.40	Pass
11a	6Mbps	1	157	5785	26.40	-		30.00	-	2.80	2.40	Pass
11a	6Mbps	1	165	5825	25.40	-		30.00	-	2.80	2.40	Pass
HT20	MCS0	1	149	5745	26.80	-		30.00	-	2.80	2.40	Pass
HT20	MCS0	1	157	5785	26.50	-		30.00	-	2.80	2.40	Pass
HT20	MCS0	1	165	5825	25.40	-		30.00	-	2.80	2.40	Pass
HT40	MCS0	1	151	5755	26.50	-		30.00	-	2.80	2.40	Pass
HT40	MCS0	1	159	5795	26.20	-		30.00	-	2.80	2.40	Pass
VHT20	MCS0	1	149	5745	26.80	-		30.00	-	2.80	2.40	Pass
VHT20	MCS0	1	157	5785	26.50	-		30.00	-	2.80	2.40	Pass
VHT20	MCS0	1	165	5825	25.40	-		30.00	-	2.80	2.40	Pass
VHT40	MCS0	1	151	5755	26.50	-		30.00	-	2.80	2.40	Pass
VHT40	MCS0	1	159	5795	26.20	-		30.00	-	2.80	2.40	Pass
VHT80	MCS0	1	155	5775	25.00	-		30.00	-	2.80	2.40	Pass

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	26.60	26.50	29.56	30.00		2.80		Pass
11a	6Mbps	2	157	5785	26.10	26.20	29.16	30.00		2.80		Pass
11a	6Mbps	2	165	5825	25.00	25.70	28.37	30.00		2.80		Pass
HT20	MCS0	2	149	5745	26.60	26.50	29.56	30.00		2.80		Pass
HT20	MCS0	2	157	5785	26.10	26.10	29.11	30.00		2.80		Pass
HT20	MCS0	2	165	5825	24.50	25.30	27.93	30.00		2.80		Pass
HT40	MCS0	2	151	5755	26.40	26.10	29.26	30.00		2.80		Pass
HT40	MCS0	2	159	5795	25.60	25.90	28.76	30.00		2.80		Pass
VHT20	MCS0	2	149	5745	26.60	26.50	29.56	30.00		2.80		Pass
VHT20	MCS0	2	157	5785	26.10	26.10	29.11	30.00		2.80		Pass
VHT20	MCS0	2	165	5825	24.50	25.30	27.93	30.00		2.80		Pass
VHT40	MCS0	2	151	5755	26.40	26.10	29.26	30.00		2.80		Pass
VHT40	MCS0	2	159	5795	25.60	25.90	28.76	30.00		2.80		Pass
VHT80	MCS0	2	155	5775	24.00	23.90	26.96	30.00		2.80		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV single antenna														
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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	2.22	-	16.37	-		30.00	30.00	2.80	2.40	Pass
11a	6Mbps	1	157	5785	2.22	-	15.93	-		30.00	30.00	2.80	2.40	Pass
11a	6Mbps	1	165	5825	2.22	-	14.69	-		30.00	30.00	2.80	2.40	Pass

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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	2.22		16.30	16.25	19.31	30.00		5.61		Pass
11a	6Mbps	2	157	5785	2.22		15.53	16.03	19.04	30.00		5.61		Pass
11a	6Mbps	2	165	5825	2.22		14.38	15.70	18.71	30.00		5.61		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 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	149	5745	Full	27.92	-	50.89	-	18.83	-	0.5	Pass
HE20	MCS0	1	157	5785	Full	27.97	-	51.49	-	18.73	-	0.5	Pass
HE20	MCS0	1	165	5825	Full	28.17	-	50.89	-	18.68	-	0.5	Pass
HE40	MCS0	1	151	5755	Full	47.75	-	84.32	-	37.31	-	0.5	Pass
HE40	MCS0	1	159	5795	Full	49.55	-	87.31	-	37.31	-	0.5	Pass
HE80	MCS0	1	155	5775	Full	79.24	-	144.87	-	76.08	-	0.5	Pass

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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	27.02	26.32	50.11	49.27	18.68	18.73	0.5	Pass
HE20	MCS0	2	157	5785	Full	27.07	26.47	47.47	47.95	18.78	18.73	0.5	Pass
HE20	MCS0	2	165	5825	Full	25.47	25.87	48.37	47.65	18.73	18.78	0.5	Pass
HE40	MCS0	2	151	5755	Full	48.55	45.85	87.01	86.31	37.49	37.31	0.5	Pass
HE40	MCS0	2	159	5795	Full	47.65	46.55	88.41	82.42	37.49	37.22	0.5	Pass
HE80	MCS0	2	155	5775	Full	78.88	78.88	121.96	140.82	76.08	75.76	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	149	5745	Full	26.90	-		30.00	-	2.80	2.40	Pass
HE20	MCS0	1	157	5785	Full	26.60	-		30.00	-	2.80	2.40	Pass
HE20	MCS0	1	165	5825	Full	25.50	-		30.00	-	2.80	2.40	Pass
HE40	MCS0	1	151	5755	Full	26.60	-		30.00	-	2.80	2.40	Pass
HE40	MCS0	1	159	5795	Full	26.30	-		30.00	-	2.80	2.40	Pass
HE80	MCS0	1	155	5775	Full	25.10	-		30.00	-	2.80	2.40	Pass

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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	26.70	26.60	29.66	30.00		2.80		Pass
HE20	MCS0	2	157	5785	Full	26.20	26.20	29.21	30.00		2.80		Pass
HE20	MCS0	2	165	5825	Full	24.60	25.40	28.03	30.00		2.80		Pass
HE40	MCS0	2	151	5755	Full	26.50	26.20	29.36	30.00		2.80		Pass
HE40	MCS0	2	159	5795	Full	25.70	26.00	28.86	30.00		2.80		Pass
HE80	MCS0	2	155	5775	Full	24.10	24.00	27.06	30.00		2.80		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV single antenna															
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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	149	5745	Full	2.22	-	15.92	-		30.00	30.00	2.80	2.40	Pass
HE20	MCS0	1	157	5785	Full	2.22	-	15.76	-		30.00	30.00	2.80	2.40	Pass
HE20	MCS0	1	165	5825	Full	2.22	-	14.64	-		30.00	30.00	2.80	2.40	Pass
HE40	MCS0	1	151	5755	Full	2.22	-	12.46	-		30.00	30.00	2.80	2.40	Pass
HE40	MCS0	1	159	5795	Full	2.22	-	12.29	-		30.00	30.00	2.80	2.40	Pass
HE80	MCS0	1	155	5775	Full	2.22	-	8.32	-		30.00	30.00	2.80	2.40	Pass

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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	2.22		16.32	15.84	19.33	30.00		5.61		Pass
HE20	MCS0	2	157	5785	Full	2.22		15.47	15.68	18.69	30.00		5.61		Pass
HE20	MCS0	2	165	5825	Full	2.22		13.78	15.12	18.13	30.00		5.61		Pass
HE40	MCS0	2	151	5755	Full	2.22		12.55	12.25	15.56	30.00		5.61		Pass
HE40	MCS0	2	159	5795	Full	2.22		12.04	12.22	15.23	30.00		5.61		Pass
HE80	MCS0	2	155	5775	Full	2.22		7.64	7.78	10.79	30.00		5.61		Pass

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

<TXBF Mode>

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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	149	5745	23.70	24.30	27.02	30.00		5.61		Pass
HT20	MCS0	2	157	5785	23.10	24.00	26.58	30.00		5.61		Pass
HT20	MCS0	2	165	5825	23.10	24.40	26.81	30.00		5.61		Pass
HT40	MCS0	2	151	5755	23.80	23.80	26.81	30.00		5.61		Pass
HT40	MCS0	2	159	5795	24.70	25.50	28.13	30.00		5.61		Pass
VHT20	MCS0	2	149	5745	23.80	24.30	27.07	30.00		5.61		Pass
VHT20	MCS0	2	157	5785	23.20	24.10	26.68	30.00		5.61		Pass
VHT20	MCS0	2	165	5825	23.10	24.40	26.81	30.00		5.61		Pass
VHT40	MCS0	2	151	5755	23.90	23.90	26.91	30.00		5.61		Pass
VHT40	MCS0	2	159	5795	24.80	25.60	28.23	30.00		5.61		Pass
VHT80	MCS0	2	155	5775	21.80	21.40	24.61	30.00		5.61		Pass

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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	19.53	19.53	41.72	44.84	18.93	18.93	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.63	19.48	42.98	44.96	18.83	18.78	0.5	Pass
HE20	MCS0	2	165	5825	Full	22.48	20.78	46.09	51.13	18.93	18.88	0.5	Pass
HE40	MCS0	2	151	5755	Full	38.66	38.46	82.12	81.37	37.58	35.69	0.5	Pass
HE40	MCS0	2	159	5795	Full	50.55	50.15	90.75	91.35	35.78	35.07	0.5	Pass
HE80	MCS0	2	155	5775	Full	78.04	78.04	95.26	81.20	75.60	75.76	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	24.10	24.50	27.31	30.00		5.61		Pass
HE20	MCS0	2	157	5785	Full	23.40	24.20	26.83	30.00		5.61		Pass
HE20	MCS0	2	165	5825	Full	23.20	24.50	26.91	30.00		5.61		Pass
HE40	MCS0	2	151	5755	Full	23.90	24.20	27.06	30.00		5.61		Pass
HE40	MCS0	2	159	5795	Full	24.90	25.50	28.22	30.00		5.61		Pass
HE80	MCS0	2	155	5775	Full	21.80	21.50	24.66	30.00		5.61		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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	2.22		12.44	12.77	15.78	30.00		5.61		Pass
HE20	MCS0	2	157	5785	Full	2.22		11.78	12.82	15.83	30.00		5.61		Pass
HE20	MCS0	2	165	5825	Full	2.22		11.68	12.74	15.75	30.00		5.61		Pass
HE40	MCS0	2	151	5755	Full	2.22		11.61	11.07	14.62	30.00		5.61		Pass
HE40	MCS0	2	159	5795	Full	2.22		13.53	12.63	16.54	30.00		5.61		Pass
HE80	MCS0	2	155	5775	Full	2.22		8.93	8.27	11.94	30.00		5.61		Pass

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

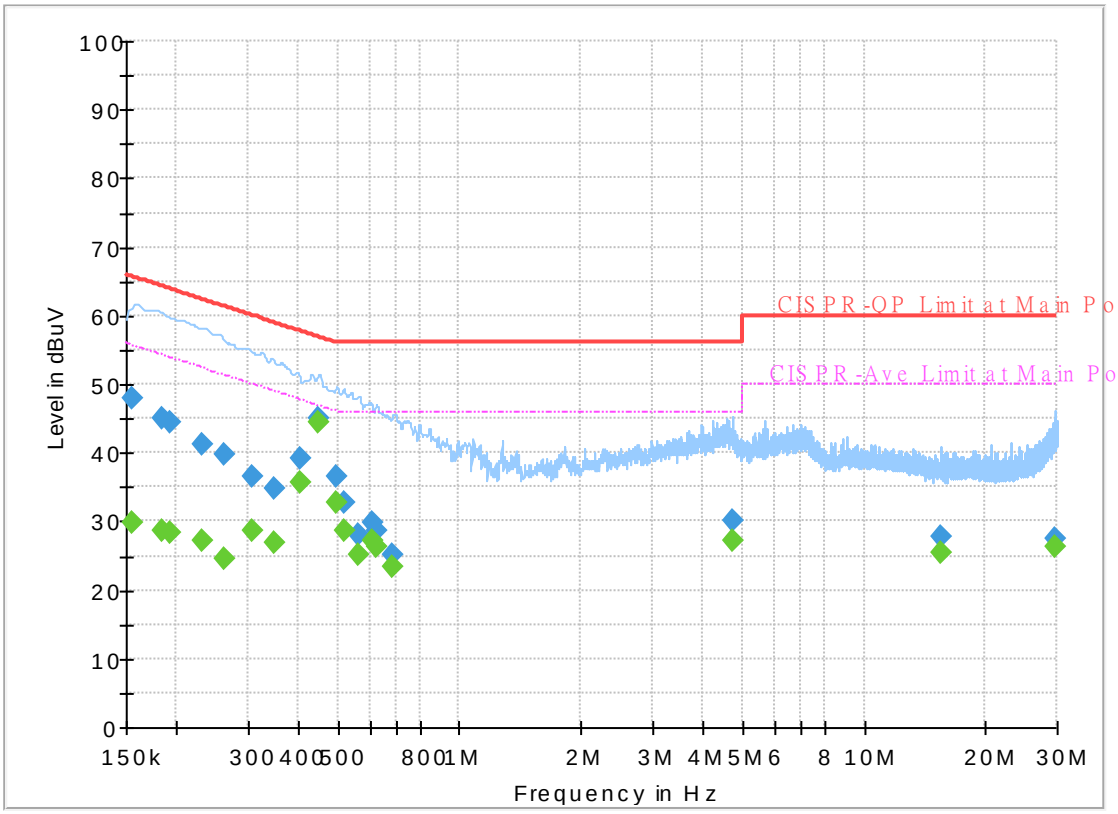
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	**Temperature :**	21~25℃
		Relative Humidity :	45~50%

EUT Information

Report NO :	031701
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



Final_Result

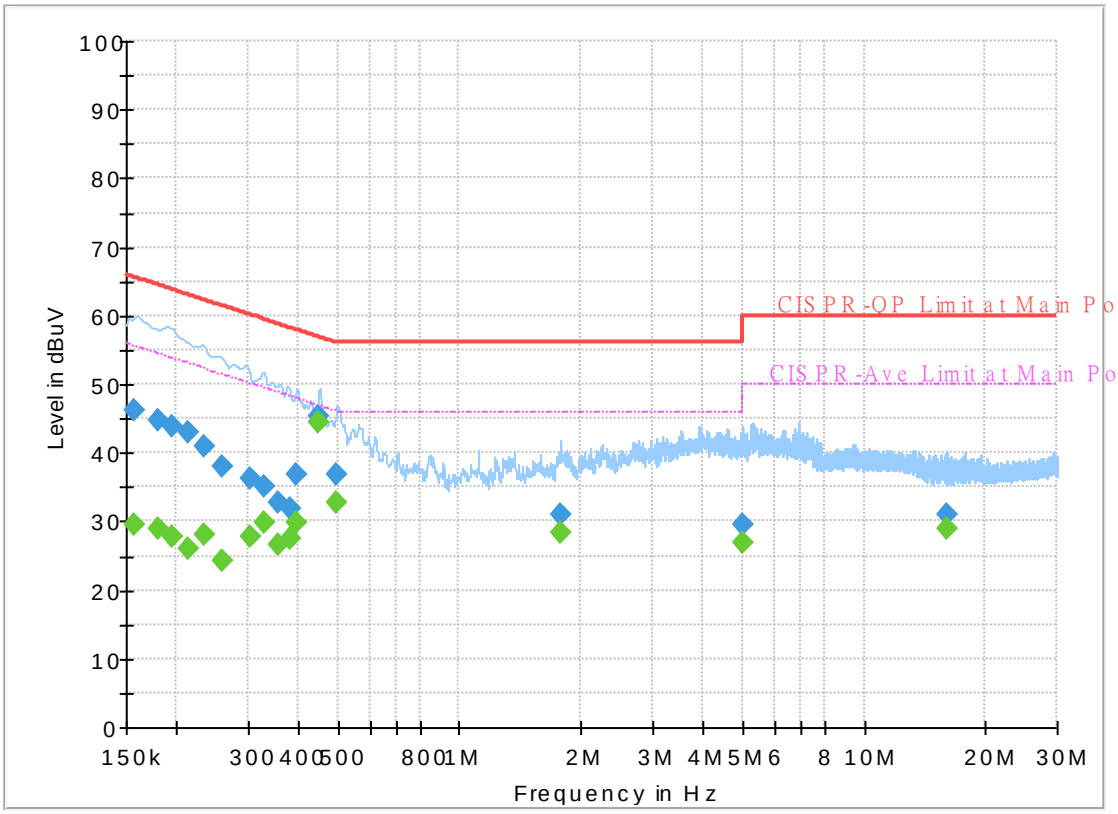
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	29.95	55.75	25.80	L1	OFF	19.6
0.154500	47.92	---	65.75	17.83	L1	OFF	19.6
0.183750	---	28.70	54.31	25.61	L1	OFF	19.6
0.183750	45.05	---	64.31	19.26	L1	OFF	19.6
0.193650	---	28.28	53.88	25.60	L1	OFF	19.6
0.193650	44.44	---	63.88	19.44	L1	OFF	19.6
0.230640	---	27.33	52.43	25.10	L1	OFF	19.6
0.230640	41.34	---	62.43	21.09	L1	OFF	19.6
0.262500	---	24.43	51.35	26.92	L1	OFF	19.6
0.262500	39.85	---	61.35	21.50	L1	OFF	19.6
0.307500	---	28.52	50.04	21.52	L1	OFF	19.6
0.307500	36.62	---	60.04	23.42	L1	OFF	19.6
0.347010	---	26.78	49.03	22.25	L1	OFF	19.6
0.347010	34.91	---	59.03	24.12	L1	OFF	19.6
0.404250	---	35.53	47.77	12.24	L1	OFF	19.6
0.404250	39.11	---	57.77	18.66	L1	OFF	19.6
0.448710	---	44.33	46.90	2.57	L1	OFF	19.6
0.448710	45.13	---	56.90	11.77	L1	OFF	19.6
0.497850	---	32.66	46.04	13.38	L1	OFF	19.6
0.497850	36.41	---	56.04	19.63	L1	OFF	19.6
0.519540	---	28.68	46.00	17.32	L1	OFF	19.6

0.519540	32.76	---	56.00	23.24	L1	OFF	19.6
0.564000	---	25.23	46.00	20.77	L1	OFF	19.6
0.564000	28.20	---	56.00	27.80	L1	OFF	19.6
0.608640	---	27.06	46.00	18.94	L1	OFF	19.6
0.608640	29.91	---	56.00	26.09	L1	OFF	19.6
0.622500	---	26.29	46.00	19.71	L1	OFF	19.6
0.622500	28.76	---	56.00	27.24	L1	OFF	19.6
0.684060	---	23.37	46.00	22.63	L1	OFF	19.6
0.684060	25.16	---	56.00	30.84	L1	OFF	19.6
4.722000	---	27.15	46.00	18.85	L1	OFF	19.8
4.722000	30.24	---	56.00	25.76	L1	OFF	19.8
15.439650	---	25.46	50.00	24.54	L1	OFF	20.2
15.439650	27.70	---	60.00	32.30	L1	OFF	20.2
29.510250	---	26.26	50.00	23.74	L1	OFF	20.7
29.510250	27.61	---	60.00	32.39	L1	OFF	20.7

EUT Information

Report NO :	031701
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)
0.156750	---	29.57	55.63	26.06	N	OFF	19.6
0.156750	46.32	---	65.63	19.31	N	OFF	19.6
0.179610	---	28.89	54.50	25.61	N	OFF	19.6
0.179610	44.81	---	64.50	19.69	N	OFF	19.6
0.194370	---	27.85	53.85	26.00	N	OFF	19.6
0.194370	43.83	---	63.85	20.02	N	OFF	19.6
0.213360	---	26.12	53.07	26.95	N	OFF	19.6
0.213360	43.05	---	63.07	20.02	N	OFF	19.6
0.233700	---	28.20	52.32	24.12	N	OFF	19.6
0.233700	40.81	---	62.32	21.51	N	OFF	19.6
0.260250	---	24.41	51.42	27.01	N	OFF	19.6
0.260250	38.14	---	61.42	23.28	N	OFF	19.6
0.303000	---	27.89	50.16	22.27	N	OFF	19.6
0.303000	36.19	---	60.16	23.97	N	OFF	19.6
0.330180	---	29.76	49.45	19.69	N	OFF	19.6
0.330180	35.02	---	59.45	24.43	N	OFF	19.6
0.357000	---	26.54	48.80	22.26	N	OFF	19.6
0.357000	32.71	---	58.80	26.09	N	OFF	19.6
0.381750	---	27.50	48.24	20.74	N	OFF	19.6
0.381750	32.00	---	58.24	26.24	N	OFF	19.6
0.396060	---	29.79	47.94	18.15	N	OFF	19.6

0.396060	36.88	---	57.94	21.06	N	OFF	19.6
0.448530	---	44.38	46.90	2.52	N	OFF	19.6
0.448530	45.19	---	56.90	11.71	N	OFF	19.6
0.498030	---	32.73	46.03	13.30	N	OFF	19.6
0.498030	36.90	---	56.03	19.13	N	OFF	19.6
1.774500	---	28.30	46.00	17.70	N	OFF	19.6
1.774500	30.90	---	56.00	25.10	N	OFF	19.6
4.994250	---	26.76	46.00	19.24	N	OFF	19.8
4.994250	29.64	---	56.00	26.36	N	OFF	19.8
15.941220	---	28.89	50.00	21.11	N	OFF	20.3
15.941220	31.08	---	60.00	28.92	N	OFF	20.3

Appendix C. Radiated Spurious Emission

Test Engineer :	Andy Yang, Karl Hou, and CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~65%

<CDD Mode>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5645.2	59.96	-8.24	68.2	44.28	31.7	13.03	29.05	210	23	P	H
		5699.6	74.87	-30.04	104.91	58.98	31.8	13.12	29.03	210	23	P	H
		5719.6	88.62	-22.07	110.69	72.62	31.88	13.15	29.03	210	23	P	H
		5723.8	96.37	-23.09	119.46	80.34	31.9	13.16	29.03	210	23	P	H
	*	5745	120.84	-	-	104.69	31.98	13.19	29.02	210	23	P	H
	*	5745	112.92	-	-	96.77	31.98	13.19	29.02	210	23	A	H
													H
													H
		5640	57.48	-10.72	68.2	41.81	31.7	13.02	29.05	217	99	P	V
		5699.2	71.77	-32.84	104.61	55.88	31.8	13.12	29.03	217	99	P	V
		5719.8	86.28	-24.46	110.74	70.28	31.88	13.15	29.03	217	99	P	V
		5724.8	95.12	-26.62	121.74	79.09	31.9	13.16	29.03	217	99	P	V
	*	5745	118.9	-	-	102.75	31.98	13.19	29.02	217	99	P	V
	*	5745	110.92	-	-	94.77	31.98	13.19	29.02	217	99	A	V
													V
													V

WIFI Ant. 1	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)
		5619.6	59.25	-8.95	68.2	43.61	31.7	12.99	29.05	202	24	P	H
		5699.8	62.57	-42.48	105.05	46.68	31.8	13.12	29.03	202	24	P	H
		5718.8	67.87	-42.59	110.46	51.87	31.88	13.15	29.03	202	24	P	H
		5723.8	67.06	-52.4	119.46	51.03	31.9	13.16	29.03	202	24	P	H
	*	5785	119.97	-	-	103.65	32.07	13.26	29.01	202	24	P	H
	*	5785	111.86	-	-	95.54	32.07	13.26	29.01	202	24	A	H
		5852.2	60.45	-56.73	117.18	44.04	32.1	13.31	29	202	24	P	H
		5858.4	58	-51.85	109.85	41.55	32.12	13.32	28.99	202	24	P	H
		5882	56.79	-43.21	100	40.29	32.16	13.33	28.99	202	24	P	H
		5928.2	55.54	-12.66	68.2	38.85	32.31	13.36	28.98	202	24	P	H
													H
802.11a CH 157 5785MHz													H
		5638.6	56	-12.2	68.2	40.33	31.7	13.02	29.05	222	101	P	V
		5699.2	57.98	-46.63	104.61	42.09	31.8	13.12	29.03	222	101	P	V
		5718.8	62.85	-47.61	110.46	46.85	31.88	13.15	29.03	222	101	P	V
		5724.6	65.38	-55.91	121.29	49.35	31.9	13.16	29.03	222	101	P	V
	*	5785	117.72	-	-	101.4	32.07	13.26	29.01	222	101	P	V
	*	5785	109.88	-	-	93.56	32.07	13.26	29.01	222	101	A	V
		5851.2	57.07	-62.39	119.46	40.66	32.1	13.31	29	222	101	P	V
		5858.4	56.53	-53.32	109.85	40.08	32.12	13.32	28.99	222	101	P	V
		5885.8	55.57	-41.61	97.18	39.06	32.17	13.33	28.99	222	101	P	V
		5947.2	55.01	-13.19	68.2	38.22	32.39	13.37	28.97	222	101	P	V
													V
													V

WIFI Ant. 1	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)
	*	5825	118.04	-	-	101.64	32.1	13.3	29	202	22	P	H
	*	5825	110.03	-	-	93.63	32.1	13.3	29	202	22	A	H
		5851.8	82.79	-35.31	118.1	66.38	32.1	13.31	29	202	22	P	H
		5855.4	76.12	-34.57	110.69	59.69	32.11	13.31	28.99	202	22	P	H
		5878	64.31	-38.66	102.97	47.81	32.16	13.33	28.99	202	22	P	H
		5929.4	57.36	-10.84	68.2	40.66	32.32	13.36	28.98	202	22	P	H
													H
802.11a													H
CH 165	*	5825	115.45	-	-	99.05	32.1	13.3	29	229	103	P	V
5825MHz	*	5825	107.47	-	-	91.07	32.1	13.3	29	229	103	A	V
		5851.8	80.72	-37.38	118.1	64.31	32.1	13.31	29	229	103	P	V
		5856	72.68	-37.84	110.52	56.25	32.11	13.31	28.99	229	103	P	V
		5875.2	61.43	-43.62	105.05	44.94	32.15	13.33	28.99	229	103	P	V
		5939.8	55.8	-12.4	68.2	39.05	32.36	13.36	28.97	229	103	P	V
													V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	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	52.22	-21.78	74	52.36	40.1	20.66	60.9	350	51	P	H
		11490	43.19	-10.81	54	43.33	40.1	20.66	60.9	350	51	A	H
		17235	60.03	-8.17	68.2	51.53	40.84	26.48	58.82	252	58	P	H
													H
		11490	53.98	-20.02	74	54.12	40.1	20.66	60.9	244	22	P	V
		11490	43.14	-10.86	54	43.28	40.1	20.66	60.9	244	22	A	V
		17235	64.62	-3.58	68.2	56.12	40.84	26.48	58.82	304	17	P	V
													V
802.11a CH 157 5785MHz		11570	54.45	-19.55	74	54.78	39.89	20.76	60.98	375	54	P	H
		11570	45.27	-8.73	54	45.6	39.89	20.76	60.98	375	54	A	H
		17355	60.72	-7.48	68.2	51.32	41.38	26.69	58.67	250	58	P	H
													H
		11570	54.58	-19.42	74	54.91	39.89	20.76	60.98	298	16	P	V
		11570	44.87	-9.13	54	45.2	39.89	20.76	60.98	298	16	A	V
		17355	65.17	-3.03	68.2	55.77	41.38	26.69	58.67	300	16	P	V
													V
802.11a CH 165 5825MHz		11650	54.1	-19.9	74	54.73	39.6	20.85	61.08	350	52	P	H
		11650	44.67	-9.33	54	45.3	39.6	20.85	61.08	350	52	A	H
		17475	63	-5.2	68.2	52.67	41.97	26.89	58.53	154	19	P	H
													H
		11650	55.76	-18.24	74	56.39	39.6	20.85	61.08	246	20	P	V
		11650	45.78	-8.22	54	46.41	39.6	20.85	61.08	246	20	A	V
		17475	66.69	-1.51	68.2	56.36	41.97	26.89	58.53	300	15	P	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. 1	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)
		5629.4	60.22	-7.98	68.2	44.56	31.7	13.01	29.05	211	22	P	H
		5698.6	71.56	-32.61	104.17	55.67	31.8	13.12	29.03	211	22	P	H
		5719.8	95.76	-14.98	110.74	79.76	31.88	13.15	29.03	211	22	P	H
		5725	100.13	-22.07	122.2	84.1	31.9	13.16	29.03	211	22	P	H
	*	5745	122.88	-	-	106.73	31.98	13.19	29.02	211	22	P	H
	*	5745	112.52	-	-	96.37	31.98	13.19	29.02	211	22	A	H
802.11ax													H
HE20 Full													H
CH 149		5650	57.84	-10.36	68.2	42.14	31.7	13.04	29.04	219	97	P	V
5745MHz		5698.2	68.73	-35.14	103.87	52.84	31.8	13.12	29.03	219	97	P	V
		5719	89.02	-21.5	110.52	73.02	31.88	13.15	29.03	219	97	P	V
		5724.6	97.47	-23.82	121.29	81.44	31.9	13.16	29.03	219	97	P	V
	*	5745	120.93	-	-	104.78	31.98	13.19	29.02	219	97	P	V
	*	5745	110.62	-	-	94.47	31.98	13.19	29.02	219	97	A	V
													V
													V

WIFI Ant. 1	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)
		5637.6	57.36	-10.84	68.2	41.69	31.7	13.02	29.05	216	22	P	H
		5691	61.3	-37.26	98.56	45.44	31.78	13.11	29.03	216	22	P	H
		5719	68.67	-41.85	110.52	52.67	31.88	13.15	29.03	216	22	P	H
		5722.6	67.08	-49.65	116.73	51.06	31.89	13.16	29.03	216	22	P	H
	*	5785	122.08	-	-	105.76	32.07	13.26	29.01	216	22	P	H
	*	5785	111.72	-	-	95.4	32.07	13.26	29.01	216	22	A	H
		5850.2	59.04	-62.7	121.74	42.63	32.1	13.31	29	216	22	P	H
		5855.8	59.65	-50.93	110.58	43.22	32.11	13.31	28.99	216	22	P	H
		5877.4	56.14	-47.28	103.42	39.65	32.15	13.33	28.99	216	22	P	H
		5934	55.02	-13.18	68.2	38.3	32.34	13.36	28.98	216	22	P	H
802.11ax													H
HE20 Full													H
CH 157		5649.4	56.5	-11.7	68.2	40.8	31.7	13.04	29.04	217	102	P	V
5785MHz		5691.8	59.76	-39.39	99.15	43.9	31.78	13.11	29.03	217	102	P	V
		5719	66.4	-44.12	110.52	50.4	31.88	13.15	29.03	217	102	P	V
		5724.6	66.06	-55.23	121.29	50.03	31.9	13.16	29.03	217	102	P	V
	*	5785	119.93	-	-	103.61	32.07	13.26	29.01	217	102	P	V
	*	5785	109.43	-	-	93.11	32.07	13.26	29.01	217	102	A	V
		5854	57.74	-55.34	113.08	41.32	32.11	13.31	29	217	102	P	V
		5855.6	56.68	-53.95	110.63	40.25	32.11	13.31	28.99	217	102	P	V
		5885.8	55.95	-41.23	97.18	39.44	32.17	13.33	28.99	217	102	P	V
		5936.4	54.61	-13.59	68.2	37.88	32.35	13.36	28.98	217	102	P	V
													V
													V

WIFI Ant. 1	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	119.91	-	-	103.51	32.1	13.3	29	220	22	P	H
	*	5825	109.48	-	-	93.08	32.1	13.3	29	220	22	A	H
		5850.2	88.32	-33.42	121.74	71.91	32.1	13.31	29	220	22	P	H
		5856.6	76.82	-33.53	110.35	60.39	32.11	13.31	28.99	220	22	P	H
		5877.4	64.16	-39.26	103.42	47.67	32.15	13.33	28.99	220	22	P	H
		5928	55.69	-12.51	68.2	39	32.31	13.36	28.98	220	22	P	H
													H
													H
	*	5825	117.6	-	-	101.2	32.1	13.3	29	214	102	P	V
	*	5825	107.22	-	-	90.82	32.1	13.3	29	214	102	A	V
		5850	83.14	-39.06	122.2	66.73	32.1	13.31	29	214	102	P	V
		5855.4	74.4	-36.29	110.69	57.97	32.11	13.31	28.99	214	102	P	V
		5879.8	61.36	-40.27	101.63	44.86	32.16	13.33	28.99	214	102	P	V
		5929.6	54.71	-13.49	68.2	38.01	32.32	13.36	28.98	214	102	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1	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)
		11490	52.48	-21.52	74	52.62	40.1	20.66	60.9	338	49	P	H
		11490	43.12	-10.88	54	43.26	40.1	20.66	60.9	338	49	A	H
802.11ax		17235	59.02	-9.18	68.2	50.52	40.84	26.48	58.82	221	58	P	H
HE20 Full													H
CH 149		11490	52.32	-21.68	74	52.46	40.1	20.66	60.9	250	18	P	V
5745MHz		11490	43.05	-10.95	54	43.19	40.1	20.66	60.9	250	18	A	V
		17235	62.71	-5.49	68.2	54.21	40.84	26.48	58.82	320	17	P	V
													V
		11570	53.9	-20.1	74	54.23	39.89	20.76	60.98	350	53	P	H
		11570	44.73	-9.27	54	45.06	39.89	20.76	60.98	350	53	A	H
802.11ax		17355	56.75	-11.45	68.2	47.35	41.38	26.69	58.67	100	0	P	H
HE20 Full													H
CH 157		11570	54.26	-19.74	74	54.59	39.89	20.76	60.98	233	24	P	V
5785MHz		11570	44.47	-9.53	54	44.8	39.89	20.76	60.98	350	53	A	V
		17355	63.8	-4.4	68.2	54.4	41.38	26.69	58.67	310	15	P	V
													V
		11650	54.09	-19.91	74	54.72	39.6	20.85	61.08	370	52	P	H
		11650	44.92	-9.08	54	45.55	39.6	20.85	61.08	370	52	A	H
802.11ax		17475	62.97	-5.23	68.2	52.64	41.97	26.89	58.53	287	36	P	H
HE20 Full													H
CH 165		11650	55.49	-18.51	74	56.12	39.6	20.85	61.08	234	21	P	V
5825MHz		11650	45.88	-8.12	54	46.51	39.6	20.85	61.08	234	21	A	V
		17475	66.08	-2.12	68.2	55.75	41.97	26.89	58.53	298	14	P	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. 1	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)
		5649.2	66.98	-1.22	68.2	51.28	31.7	13.04	29.04	226	27	P	H
		5698.6	81.26	-22.91	104.17	65.37	31.8	13.12	29.03	226	27	P	H
		5717.2	95.28	-14.74	110.02	79.29	31.87	13.15	29.03	226	27	P	H
		5723.8	96.46	-23	119.46	80.43	31.9	13.16	29.03	226	27	P	H
	*	5755	120.32	-	-	104.12	32.01	13.21	29.02	226	27	P	H
	*	5755	109.88	-	-	93.68	32.01	13.21	29.02	226	27	A	H
		5851.6	60.94	-57.61	118.55	44.53	32.1	13.31	29	226	27	P	H
		5858.4	60.14	-49.71	109.85	43.69	32.12	13.32	28.99	226	27	P	H
		5878.2	56.2	-46.62	102.82	39.7	32.16	13.33	28.99	226	27	P	H
		5938.6	56.05	-12.15	68.2	39.31	32.35	13.36	28.97	226	27	P	H
802.11ax													H
HE40 Full													H
CH 151		5645.4	64.06	-4.14	68.2	48.38	31.7	13.03	29.05	224	95	P	V
5755MHz		5700	79.54	-25.66	105.2	63.65	31.8	13.12	29.03	224	95	P	V
		5717.2	93.15	-16.87	110.02	77.16	31.87	13.15	29.03	224	95	P	V
		5724	94.5	-25.42	119.92	78.47	31.9	13.16	29.03	224	95	P	V
	*	5755	118.49	-	-	102.29	32.01	13.21	29.02	224	95	P	V
	*	5755	107.8	-	-	91.6	32.01	13.21	29.02	224	95	A	V
		5850.4	59.52	-61.77	121.29	43.11	32.1	13.31	29	224	95	P	V
		5860.8	58.03	-51.14	109.17	41.58	32.12	13.32	28.99	224	95	P	V
		5875	56.34	-48.86	105.2	39.86	32.15	13.32	28.99	224	95	P	V
		5937.6	55.54	-12.66	68.2	38.8	32.35	13.36	28.97	224	95	P	V
													V
													V

WIFI Ant. 1	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)
		5645.8	61.48	-6.72	68.2	45.8	31.7	13.03	29.05	208	22	P	H
		5692.8	68.8	-31.09	99.89	52.93	31.79	13.11	29.03	208	22	P	H
		5720	71.94	-38.86	110.8	55.94	31.88	13.15	29.03	208	22	P	H
		5724.4	73.5	-47.33	120.83	57.47	31.9	13.16	29.03	208	22	P	H
	*	5795	119.8	-	-	103.45	32.09	13.27	29.01	208	22	P	H
	*	5795	109.03	-	-	92.68	32.09	13.27	29.01	208	22	A	H
		5850.4	74.31	-46.98	121.29	57.9	32.1	13.31	29	208	22	P	H
		5856.6	70.82	-39.53	110.35	54.39	32.11	13.31	28.99	208	22	P	H
		5884.2	64.06	-34.31	98.37	47.55	32.17	13.33	28.99	208	22	P	H
		5934	57.29	-10.91	68.2	40.57	32.34	13.36	28.98	208	22	P	H
802.11ax													H
HE40 Full													H
CH 159		5646	59.8	-8.4	68.2	44.11	31.7	13.03	29.04	221	101	P	V
5795MHz		5696.2	66.44	-35.96	102.4	50.57	31.79	13.11	29.03	221	101	P	V
		5720	72.24	-38.56	110.8	56.24	31.88	13.15	29.03	221	101	P	V
		5724.6	72.74	-48.55	121.29	56.71	31.9	13.16	29.03	221	101	P	V
	*	5795	117.32	-	-	100.97	32.09	13.27	29.01	221	101	P	V
	*	5795	106.54	-	-	90.19	32.09	13.27	29.01	221	101	A	V
		5850.2	70.22	-51.52	121.74	53.81	32.1	13.31	29	221	101	P	V
		5858.4	69.16	-40.69	109.85	52.71	32.12	13.32	28.99	221	101	P	V
		5875	60.94	-44.26	105.2	44.46	32.15	13.32	28.99	221	101	P	V
		5927.6	54.78	-13.42	68.2	38.09	32.31	13.36	28.98	221	101	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 1	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)
		11510	53.54	-20.46	74	53.68	40.07	20.7	60.91	350	46	P	H
		11510	43.47	-10.53	54	43.61	40.07	20.7	60.91	350	46	A	H
802.11ax		17265	59.02	-9.18	68.2	50.31	40.96	26.53	58.78	235	57	P	H
HE40 Full													H
CH 151		11510	52.59	-21.41	74	52.73	40.07	20.7	60.91	167	17	P	V
5755MHz		11510	43.45	-10.55	54	43.59	40.07	20.7	60.91	167	17	A	V
		17265	61.12	-7.08	68.2	52.41	40.96	26.53	58.78	300	17	P	V
													V
		11590	53.82	-20.18	74	54.22	39.83	20.78	61.01	372	54	P	H
		11590	44.62	-9.38	54	45.02	39.83	20.78	61.01	372	54	A	H
802.11ax		17385	56.68	-11.52	68.2	47.06	41.52	26.74	58.64	100	0	P	H
HE40 Full													H
CH 159		11590	52.81	-21.19	74	53.21	39.83	20.78	61.01	295	22	P	V
5795MHz		11590	43.29	-10.71	54	43.69	39.83	20.78	61.01	295	22	A	V
		17385	59.06	-9.14	68.2	49.44	41.52	26.74	58.64	100	0	P	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. 1	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)
		5649.4	66.7	-1.5	68.2	50.36	31.7	13.68	29.04	208	51	P	H
		5691.8	82.59	-16.56	99.15	66.12	31.78	13.72	29.03	208	51	P	H
		5718.2	87.69	-22.61	110.3	71.1	31.87	13.75	29.03	208	51	P	H
		5723.4	87.43	-31.12	118.55	70.82	31.89	13.75	29.03	208	51	P	H
	*	5775	115.1	-	-	98.26	32.05	13.8	29.01	208	51	P	H
	*	5775	105.78	-	-	88.94	32.05	13.8	29.01	208	51	A	H
		5850.4	80	-41.29	121.29	63.09	32.1	13.81	29	208	51	P	H
		5871.6	74.85	-31.3	106.15	57.89	32.14	13.81	28.99	208	51	P	H
		5877	66.63	-37.08	103.71	49.66	32.15	13.81	28.99	208	51	P	H
		5942.4	57.77	-10.43	68.2	40.56	32.37	13.81	28.97	208	51	P	H
802.11ax													H
HE80 Full													H
CH 155		5640.6	61.86	-6.34	68.2	45.53	31.7	13.68	29.05	206	97	P	V
5775MHz		5691.8	77.45	-21.7	99.15	60.98	31.78	13.72	29.03	206	97	P	V
		5718.6	83.53	-26.88	110.41	66.94	31.87	13.75	29.03	206	97	P	V
		5723.6	82.9	-36.11	119.01	66.29	31.89	13.75	29.03	206	97	P	V
	*	5775	111.47	-	-	94.63	32.05	13.8	29.01	206	97	P	V
	*	5775	102.27	-	-	85.43	32.05	13.8	29.01	206	97	A	V
		5850.4	77.66	-43.63	121.29	60.75	32.1	13.81	29	206	97	P	V
		5856.4	72.79	-37.62	110.41	55.86	32.11	13.81	28.99	206	97	P	V
		5875	64.19	-41.01	105.2	47.22	32.15	13.81	28.99	206	97	P	V
		5933	56.78	-11.42	68.2	39.62	32.33	13.81	28.98	206	97	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. 1	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)
		11550	49.97	-24.03	74	50.24	39.95	20.74	60.96	100	0	P	H
		17325	53.73	-14.47	68.2	44.58	41.22	26.64	58.71	100	0	P	H
802.11ax													H
HE80 Full													H
CH 155		11550	49.89	-24.11	74	50.16	39.95	20.74	60.96	100	0	P	V
5775MHz		17325	54.36	-13.84	68.2	45.21	41.22	26.64	58.71	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

WIFI 802.11ax HE80 Full (SHF @ 3m)

WIFI Ant. 1	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 SHF		19188	38.48	-35.52	74	43.77	37.95	11.05	54.29	150	0	P	H
		32938	43.53	-24.67	68.2	39.65	40.42	17.58	54.12	150	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		21718	39.23	-28.97	68.2	42.25	37.96	12.48	53.46	150	0	P	V
		29286	42.04	-26.16	68.2	40.88	40.41	15.39	54.64	150	0	P	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.												

Emission below 1GHz

WIFI 802.11ax HE80 Full (LF @ 3m)

WIFI Ant. 1	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 LF		128.94	19.54	-23.96	43.5	32.48	17.56	1.77	32.27	-	-	P	H
		180.35	21.02	-22.48	43.5	36.3	14.89	2.14	32.31	-	-	P	H
		256.98	22.03	-23.97	46	32.13	19.59	2.65	32.34	-	-	P	H
		316.15	24.76	-21.24	46	34.71	19.42	2.96	32.33	-	-	P	H
		581.93	29.45	-16.55	46	31.62	25.69	4.09	31.95	-	-	P	H
		871.96	31.62	-14.38	46	29.51	29.03	5.13	32.05	100	0	P	H
													H
													H
													H
													H
													H
													H
		38.73	27.75	-12.25	40	39.19	20.07	0.79	32.3	100	0	P	V
		74.62	20.75	-19.25	40	39.23	12.62	1.24	32.34	-	-	P	V
		177.44	20.36	-23.14	43.5	35.51	15.03	2.12	32.3	-	-	P	V
		263.77	20.3	-25.7	46	29.91	20.05	2.69	32.35	-	-	P	V
		317.12	22.43	-23.57	46	32.37	19.42	2.97	32.33	-	-	P	V
		738.1	30.59	-15.41	46	30.21	27.95	4.66	32.23	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	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		5636.4	60.28	-7.92	68.2	44.61	31.7	13.02	29.05	210	23	P	H
		5700	72.07	-33.13	105.2	56.18	31.8	13.12	29.03	210	23	P	H
		5716.6	86.57	-23.28	109.85	70.58	31.87	13.15	29.03	210	23	P	H
		5724	96.26	-23.66	119.92	80.23	31.9	13.16	29.03	210	23	P	H
	*	5745	120.73	-	-	104.58	31.98	13.19	29.02	210	23	P	H
	*	5745	112.78	-	-	96.63	31.98	13.19	29.02	210	23	A	H
													H
													H
		5641.6	58.23	-9.97	68.2	42.55	31.7	13.03	29.05	219	99	P	V
		5699.8	72.38	-32.67	105.05	56.49	31.8	13.12	29.03	219	99	P	V
		5716.2	85.04	-24.7	109.74	69.06	31.86	13.15	29.03	219	99	P	V
		5724.2	94.17	-26.21	120.38	78.14	31.9	13.16	29.03	219	99	P	V
	*	5745	118.84	-	-	102.69	31.98	13.19	29.02	219	99	P	V
	*	5745	111.03	-	-	94.88	31.98	13.19	29.02	219	99	A	V
													V
													V

WIFI Ant. 1+2	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)
		5642.4	59.8	-8.4	68.2	44.12	31.7	13.03	29.05	213	22	P	H
		5693	63.67	-36.37	100.04	47.8	31.79	13.11	29.03	213	22	P	H
		5718	69.68	-40.56	110.24	53.69	31.87	13.15	29.03	213	22	P	H
		5723.2	67.89	-50.21	118.1	51.87	31.89	13.16	29.03	213	22	P	H
	*	5785	122.89	-	-	106.57	32.07	13.26	29.01	213	22	P	H
	*	5785	115.43	-	-	99.11	32.07	13.26	29.01	213	22	A	H
		5850.2	62.4	-59.34	121.74	45.99	32.1	13.31	29	213	22	P	H
		5856.6	60.65	-49.7	110.35	44.22	32.11	13.31	28.99	213	22	P	H
		5875.4	58.45	-46.45	104.9	41.96	32.15	13.33	28.99	213	22	P	H
		5940.2	57.39	-10.81	68.2	40.64	32.36	13.36	28.97	213	22	P	H
													H
802.11a CH 157 5785MHz													H
		5615	58.13	-10.07	68.2	42.5	31.7	12.98	29.05	366	3	P	V
		5699.8	61.76	-43.29	105.05	45.87	31.8	13.12	29.03	366	3	P	V
		5719	68.22	-42.3	110.52	52.22	31.88	13.15	29.03	366	3	P	V
		5724.8	67.43	-54.31	121.74	51.4	31.9	13.16	29.03	366	3	P	V
	*	5785	120.43	-	-	104.11	32.07	13.26	29.01	366	3	P	V
	*	5785	113.18	-	-	96.86	32.07	13.26	29.01	366	3	A	V
		5850.6	62.42	-58.41	120.83	46.01	32.1	13.31	29	366	3	P	V
		5856.6	62.83	-47.52	110.35	46.4	32.11	13.31	28.99	366	3	P	V
		5879.6	58.11	-43.67	101.78	41.61	32.16	13.33	28.99	366	3	P	V
		5929.2	56.79	-11.41	68.2	40.09	32.32	13.36	28.98	366	3	P	V
													V
													V

WIFI Ant. 1+2	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)
	*	5825	121.56	-	-	105.16	32.1	13.3	29	222	22	P	H
	*	5825	114.19	-	-	97.79	32.1	13.3	29	222	22	A	H
		5853.6	85.32	-28.67	113.99	68.9	32.11	13.31	29	222	22	P	H
		5859.4	82.55	-27.02	109.57	66.1	32.12	13.32	28.99	222	22	P	H
		5879.4	68.45	-33.48	101.93	51.95	32.16	13.33	28.99	222	22	P	H
		5929.8	58.88	-9.32	68.2	42.18	32.32	13.36	28.98	222	22	P	H
													H
802.11a													H
CH 165	*	5825	119.71	-	-	103.31	32.1	13.3	29	351	1	P	V
5825MHz	*	5825	112.12	-	-	95.72	32.1	13.3	29	351	1	A	V
		5850.8	85.03	-35.35	120.38	68.62	32.1	13.31	29	351	1	P	V
		5855	82.13	-28.67	110.8	65.7	32.11	13.31	28.99	351	1	P	V
		5875.2	65.93	-39.12	105.05	49.44	32.15	13.33	28.99	351	1	P	V
		5946.2	57.59	-10.61	68.2	40.81	32.38	13.37	28.97	351	1	P	V
													V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	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	53.2	-20.8	74	53.34	40.1	20.66	60.9	293	57	P	H
		11490	42.86	-11.14	54	43	40.1	20.66	60.9	293	57	A	H
		17235	62.03	-6.17	68.2	53.53	40.84	26.48	58.82	250	57	P	H
													H
		11490	52.98	-21.02	74	53.12	40.1	20.66	60.9	180	12	P	V
		11490	43.45	-10.55	54	43.59	40.1	20.66	60.9	180	12	A	V
		17235	64.3	-3.9	68.2	55.8	40.84	26.48	58.82	315	17	P	V
													V
802.11a CH 157 5785MHz		11570	55.2	-18.8	74	55.53	39.89	20.76	60.98	350	53	P	H
		11570	45.24	-8.76	54	45.57	39.89	20.76	60.98	350	53	A	H
		17355	63.55	-4.65	68.2	54.15	41.38	26.69	58.67	250	57	P	H
													H
		11570	55.15	-18.85	74	55.48	39.89	20.76	60.98	272	17	P	V
		11570	44.71	-9.29	54	45.04	39.89	20.76	60.98	272	17	A	V
		17355	65.56	-2.64	68.2	56.16	41.38	26.69	58.67	300	17	P	V
													V
802.11a CH 165 5825MHz		11650	53.57	-20.43	74	54.2	39.6	20.85	61.08	350	52	P	H
		11650	44.95	-9.05	54	45.58	39.6	20.85	61.08	350	52	A	H
		17475	63.27	-4.93	68.2	52.94	41.97	26.89	58.53	287	34	P	H
													H
		11650	55.31	-18.69	74	55.94	39.6	20.85	61.08	242	21	P	V
		11650	45.78	-8.22	54	46.41	39.6	20.85	61.08	242	21	A	V
		17475	66.61	-1.59	68.2	56.28	41.97	26.89	58.53	298	14	P	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. 1+2	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)
		5648.8	59.98	-8.22	68.2	44.28	31.7	13.04	29.04	202	23	P	H
		5694.6	71.89	-29.33	101.22	56.02	31.79	13.11	29.03	202	23	P	H
		5720	91.26	-19.54	110.8	75.26	31.88	13.15	29.03	202	23	P	H
		5722.8	96.98	-20.2	117.18	80.96	31.89	13.16	29.03	202	23	P	H
	*	5745	121.37	-	-	105.22	31.98	13.19	29.02	202	23	P	H
	*	5745	112.48	-	-	96.33	31.98	13.19	29.02	202	23	A	H
802.11ax													H
HE20 Full													H
CH 149		5648	57.66	-10.54	68.2	41.96	31.7	13.04	29.04	218	93	P	V
5745MHz		5700	68.37	-36.83	105.2	52.48	31.8	13.12	29.03	218	93	P	V
		5718.8	88.94	-21.52	110.46	72.94	31.88	13.15	29.03	218	93	P	V
		5725	97.38	-24.82	122.2	81.35	31.9	13.16	29.03	218	93	P	V
	*	5745	120.03	-	-	103.88	31.98	13.19	29.02	218	93	P	V
	*	5745	110.6	-	-	94.45	31.98	13.19	29.02	218	93	A	V
													V
													V

WIFI Ant. 1+2	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)
		5637	57.96	-10.24	68.2	42.29	31.7	13.02	29.05	215	22	P	H
		5690.4	61.84	-36.28	98.12	45.99	31.78	13.1	29.03	215	22	P	H
		5717.6	67.27	-42.86	110.13	51.28	31.87	13.15	29.03	215	22	P	H
		5724.6	68.07	-53.22	121.29	52.04	31.9	13.16	29.03	215	22	P	H
	*	5785	120.99	-	-	104.67	32.07	13.26	29.01	215	22	P	H
	*	5785	111.93	-	-	95.61	32.07	13.26	29.01	215	22	A	H
		5854.4	59.53	-52.64	112.17	43.1	32.11	13.31	28.99	215	22	P	H
		5862.6	59.58	-49.09	108.67	43.12	32.13	13.32	28.99	215	22	P	H
		5897.8	58.23	-30.06	88.29	41.67	32.2	13.34	28.98	215	22	P	H
		5936.2	55.09	-13.11	68.2	38.37	32.34	13.36	28.98	215	22	P	H
802.11ax													H
HE20 Full													H
CH 157		5641.6	56.69	-11.51	68.2	41.01	31.7	13.03	29.05	219	100	P	V
5785MHz		5689.8	60.81	-36.87	97.68	44.96	31.78	13.1	29.03	219	100	P	V
		5718.8	66.21	-44.25	110.46	50.21	31.88	13.15	29.03	219	100	P	V
		5721	65.11	-47.97	113.08	49.11	31.88	13.15	29.03	219	100	P	V
	*	5785	119.75	-	-	103.43	32.07	13.26	29.01	219	100	P	V
	*	5785	109.56	-	-	93.24	32.07	13.26	29.01	219	100	A	V
		5852	58.62	-59.02	117.64	42.21	32.1	13.31	29	219	100	P	V
		5857.8	56.08	-53.93	110.01	39.64	32.12	13.31	28.99	219	100	P	V
		5877.6	55.68	-47.59	103.27	39.18	32.16	13.33	28.99	219	100	P	V
		5930	55.21	-12.99	68.2	38.51	32.32	13.36	28.98	219	100	P	V
													V
													V

WIFI Ant. 1+2	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	118.74	-	-	102.34	32.1	13.3	29	207	22	P	H
	*	5825	109.53	-	-	93.13	32.1	13.3	29	207	22	A	H
		5850.2	86.69	-35.05	121.74	70.28	32.1	13.31	29	207	22	P	H
		5855.6	73.7	-36.93	110.63	57.27	32.11	13.31	28.99	207	22	P	H
		5876.4	62	-42.16	104.16	45.51	32.15	13.33	28.99	207	22	P	H
		5947	56.31	-11.89	68.2	39.52	32.39	13.37	28.97	207	22	P	H
													H
													H
	*	5825	117.24	-	-	100.84	32.1	13.3	29	212	99	P	V
	*	5825	106.93	-	-	90.53	32.1	13.3	29	212	99	A	V
		5850.6	83.47	-37.36	120.83	67.06	32.1	13.31	29	212	99	P	V
		5859.2	70.87	-38.75	109.62	54.42	32.12	13.32	28.99	212	99	P	V
		5881.4	60.25	-40.2	100.45	43.75	32.16	13.33	28.99	212	99	P	V
		5948	54.99	-13.21	68.2	38.2	32.39	13.37	28.97	212	99	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	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)
		11490	52.29	-21.71	74	52.43	40.1	20.66	60.9	294	54	P	H
		11490	42.37	-11.63	54	42.51	40.1	20.66	60.9	294	54	A	H
802.11ax		17235	62.54	-5.66	68.2	54.04	40.84	26.48	58.82	138	151	P	H
HE20 Full													H
CH 149		11490	54.24	-19.76	74	54.38	40.1	20.66	60.9	183	61	P	V
5745MHz		11490	44.83	-9.17	54	44.97	40.1	20.66	60.9	183	61	A	V
		17235	66.43	-1.77	68.2	57.93	40.84	26.48	58.82	163	162	P	V
													V
		11570	54.04	-19.96	74	54.37	39.89	20.76	60.98	336	43	P	H
		11570	45.18	-8.82	54	45.51	39.89	20.76	60.98	336	43	A	H
802.11ax		17355	58.62	-9.58	68.2	49.22	41.38	26.69	58.67	100	0	P	H
HE20 Full													H
CH 157		11570	54.59	-19.41	74	54.92	39.89	20.76	60.98	176	59	P	V
5785MHz		11570	45.72	-8.28	54	46.05	39.89	20.76	60.98	176	59	A	V
		17355	66.7	-1.5	68.2	57.3	41.38	26.69	58.67	178	57	P	V
													V
		11650	49.71	-24.29	74	50.96	39.6	20.23	61.08	100	0	P	H
		17475	55.51	-12.69	68.2	46.82	41.97	25.25	58.53	100	0	P	H
802.11ax													H
HE20 Full													H
CH 165		11650	49.17	-24.83	74	50.42	39.6	20.23	61.08	100	0	P	V
5825MHz		17475	58.49	-9.71	68.2	49.8	41.97	25.25	58.53	100	0	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 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
		5650	66.75	-1.45	68.2	51.05	31.7	13.04	29.04	207	22	P	H
		5697.6	81.5	-21.93	103.43	65.61	31.8	13.12	29.03	207	22	P	H
		5718.4	94.87	-15.48	110.35	78.88	31.87	13.15	29.03	207	22	P	H
		5722	96.57	-18.79	115.36	80.55	31.89	13.16	29.03	207	22	P	H
	*	5755	120.16	-	-	103.96	32.01	13.21	29.02	207	22	P	H
	*	5755	109.8	-	-	93.6	32.01	13.21	29.02	207	22	A	H
		5850.6	62.02	-58.81	120.83	45.61	32.1	13.31	29	207	22	P	H
		5857.6	60.02	-50.05	110.07	43.58	32.12	13.31	28.99	207	22	P	H
		5891.2	56.51	-36.67	93.18	39.99	32.18	13.33	28.99	207	22	P	H
		5928.6	55.3	-12.9	68.2	38.61	32.31	13.36	28.98	207	22	P	H
802.11ax													H
HE40 Full													H
CH 151		5641.6	64.29	-3.91	68.2	48.61	31.7	13.03	29.05	211	95	P	V
5755MHz		5698.6	79.18	-24.99	104.17	63.29	31.8	13.12	29.03	211	95	P	V
		5718.6	92.98	-17.43	110.41	76.99	31.87	13.15	29.03	211	95	P	V
		5723.2	94.62	-23.48	118.1	78.6	31.89	13.16	29.03	211	95	P	V
	*	5755	118.22	-	-	102.02	32.01	13.21	29.02	211	95	P	V
	*	5755	107.78	-	-	91.58	32.01	13.21	29.02	211	95	A	V
		5852.8	58.99	-56.83	115.82	42.57	32.11	13.31	29	211	95	P	V
		5855	58.38	-52.42	110.8	41.95	32.11	13.31	28.99	211	95	P	V
		5918.2	55.37	-17.84	73.21	38.73	32.27	13.35	28.98	211	95	P	V
		5936.6	55.68	-12.52	68.2	38.95	32.35	13.36	28.98	211	95	P	V
													V
													V

WIFI Ant. 1+2	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)
		5646.8	62.55	-5.65	68.2	46.86	31.7	13.03	29.04	218	28	P	H
		5697.8	70.12	-33.46	103.58	54.23	31.8	13.12	29.03	218	28	P	H
		5719.4	76.04	-34.59	110.63	60.04	31.88	13.15	29.03	218	28	P	H
		5725	77.43	-44.77	122.2	61.4	31.9	13.16	29.03	218	28	P	H
	*	5795	119.76	-	-	103.41	32.09	13.27	29.01	218	28	P	H
	*	5795	108.99	-	-	92.64	32.09	13.27	29.01	218	28	A	H
		5850	71.6	-50.6	122.2	55.19	32.1	13.31	29	218	28	P	H
		5858.6	72.15	-37.64	109.79	55.7	32.12	13.32	28.99	218	28	P	H
		5875	63.38	-41.82	105.2	46.9	32.15	13.32	28.99	218	28	P	H
		5940.6	56.12	-12.08	68.2	39.37	32.36	13.36	28.97	218	28	P	H
802.11ax													H
HE40 Full													H
CH 159		5649.6	58.49	-9.71	68.2	42.79	31.7	13.04	29.04	202	99	P	V
5795MHz		5698.8	65.61	-38.71	104.32	49.72	31.8	13.12	29.03	202	99	P	V
		5719.8	70.51	-40.23	110.74	54.51	31.88	13.15	29.03	202	99	P	V
		5724.8	73.01	-48.73	121.74	56.98	31.9	13.16	29.03	202	99	P	V
	*	5795	117.41	-	-	101.06	32.09	13.27	29.01	202	99	P	V
	*	5795	106.62	-	-	90.27	32.09	13.27	29.01	202	99	A	V
		5851.2	69.55	-49.91	119.46	53.14	32.1	13.31	29	202	99	P	V
		5856.8	67.5	-42.8	110.3	51.07	32.11	13.31	28.99	202	99	P	V
		5875.6	60.59	-44.16	104.75	44.1	32.15	13.33	28.99	202	99	P	V
		5925	55.11	-13.09	68.2	38.44	32.3	13.35	28.98	202	99	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	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)
		11510	52.96	-21.04	74	53.1	40.07	20.7	60.91	375	51	P	H
		11510	43.43	-10.57	54	43.57	40.07	20.7	60.91	375	51	A	H
802.11ax		17265	54.76	-13.44	68.2	46.05	40.96	26.53	58.78	100	0	P	H
HE40 Full													H
CH 151		11510	52.36	-21.64	74	52.5	40.07	20.7	60.91	345	25	P	V
5755MHz		11510	42.72	-11.28	54	42.86	40.07	20.7	60.91	345	25	A	V
		17265	57.54	-10.66	68.2	48.83	40.96	26.53	58.78	100	0	P	V
													V
		11590	53.76	-20.24	74	54.16	39.83	20.78	61.01	352	51	P	H
		11590	44.5	-9.5	54	44.9	39.83	20.78	61.01	352	51	A	H
802.11ax		17385	57.69	-10.51	68.2	48.07	41.52	26.74	58.64	100	0	P	H
HE40 Full													H
CH 159		11590	53.61	-20.39	74	54.01	39.83	20.78	61.01	290	16	P	V
5795MHz		11590	44.2	-9.8	54	44.6	39.83	20.78	61.01	290	16	A	V
		17385	63.57	-4.63	68.2	53.95	41.52	26.74	58.64	306	17	P	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. 1+2	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)
		5646.6	66.65	-1.55	68.2	50.31	31.7	13.68	29.04	210	52	P	H
		5700	84.33	-20.87	105.2	67.83	31.8	13.73	29.03	210	52	P	H
		5718.4	87.85	-22.5	110.35	71.26	31.87	13.75	29.03	210	52	P	H
		5723.2	87.83	-30.27	118.1	71.22	31.89	13.75	29.03	210	52	P	H
	*	5775	115.57	-	-	98.73	32.05	13.8	29.01	210	52	P	H
	*	5775	105.84	-	-	89	32.05	13.8	29.01	210	52	A	H
		5850.4	80.6	-40.69	121.29	63.69	32.1	13.81	29	210	52	P	H
		5855	75.49	-35.31	110.8	58.56	32.11	13.81	28.99	210	52	P	H
		5877.8	69.05	-34.07	103.12	52.07	32.16	13.81	28.99	210	52	P	H
		5925	59.48	-8.72	68.2	42.35	32.3	13.81	28.98	210	52	P	H
802.11ax													H
HE80 Full													H
CH 155		5644	62.11	-6.09	68.2	45.78	31.7	13.68	29.05	200	96	P	V
5775MHz		5700	79.33	-25.87	105.2	62.83	31.8	13.73	29.03	200	96	P	V
		5718.2	83.57	-26.73	110.3	66.98	31.87	13.75	29.03	200	96	P	V
		5724.6	83.91	-37.38	121.29	67.29	31.9	13.75	29.03	200	96	P	V
	*	5775	111.73	-	-	94.89	32.05	13.8	29.01	200	96	P	V
	*	5775	102.55	-	-	85.71	32.05	13.8	29.01	200	96	A	V
		5850.4	77.64	-43.65	121.29	60.73	32.1	13.81	29	200	96	P	V
		5855	73.78	-37.02	110.8	56.85	32.11	13.81	28.99	200	96	P	V
		5876	65.24	-39.22	104.46	48.27	32.15	13.81	28.99	200	96	P	V
		5934.4	57.31	-10.89	68.2	40.14	32.34	13.81	28.98	200	96	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. 1+2	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)
		11550	49.81	-24.19	74	50.08	39.95	20.74	60.96	100	0	P	H
		17325	53.6	-14.6	68.2	44.45	41.22	26.64	58.71	100	0	P	H
802.11ax													H
HE80 Full													H
CH 155		11550	49.71	-24.29	74	49.98	39.95	20.74	60.96	100	0	P	V
5775MHz		17325	53.93	-14.27	68.2	44.78	41.22	26.64	58.71	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

<TXBF Mode>

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 1+2	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)
		5647.2	61.09	-7.11	68.2	44.75	31.7	13.68	29.04	227	28	P	H
		5700	72.69	-32.51	105.2	56.19	31.8	13.73	29.03	227	28	P	H
		5719.2	89.75	-20.83	110.58	73.15	31.88	13.75	29.03	227	28	P	H
		5724.4	94.94	-25.89	120.83	78.32	31.9	13.75	29.03	227	28	P	H
	*	5745	122	-	-	105.27	31.98	13.77	29.02	227	28	P	H
	*	5745	113.74	-	-	97.01	31.98	13.77	29.02	227	28	A	H
802.11ax													H
HE20 Full													H
CH 149		5649.4	61.17	-7.03	68.2	44.83	31.7	13.68	29.04	367	266	P	V
5745MHz		5699.2	71.2	-33.41	104.61	54.7	31.8	13.73	29.03	367	266	P	V
		5718.4	86.99	-23.36	110.35	70.4	31.87	13.75	29.03	367	266	P	V
		5724.8	93.95	-27.79	121.74	77.33	31.9	13.75	29.03	367	266	P	V
	*	5745	121.18	-	-	104.45	31.98	13.77	29.02	367	266	P	V
	*	5745	113.25	-	-	96.52	31.98	13.77	29.02	367	266	A	V
													V
													V

WIFI Ant. 1+2	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)
		5622.6	59.62	-8.58	68.2	43.31	31.7	13.66	29.05	231	24	P	H
		5679.2	60.88	-28.97	89.85	44.45	31.76	13.71	29.04	231	24	P	H
		5720	64.14	-46.66	110.8	47.54	31.88	13.75	29.03	231	24	P	H
		5723.4	65.29	-53.26	118.55	48.68	31.89	13.75	29.03	231	24	P	H
	*	5785	121.6	-	-	104.73	32.07	13.81	29.01	231	24	P	H
	*	5785	112.86	-	-	95.99	32.07	13.81	29.01	231	24	A	H
		5850	62.21	-59.99	122.2	45.3	32.1	13.81	29	231	24	P	H
		5856	60.89	-49.63	110.52	43.96	32.11	13.81	28.99	231	24	P	H
		5891.2	59.31	-33.87	93.18	42.31	32.18	13.81	28.99	231	24	P	H
		5943.4	57.08	-11.12	68.2	39.87	32.37	13.81	28.97	231	24	P	H
802.11ax													H
HE20 Full													H
CH 157		5614.8	57.31	-10.89	68.2	41.01	31.7	13.65	29.05	361	263	P	V
5785MHz		5688.6	58.79	-38	96.79	42.32	31.78	13.72	29.03	361	263	P	V
		5717.2	62.14	-47.88	110.02	45.55	31.87	13.75	29.03	361	263	P	V
		5725	65.33	-56.87	122.2	48.71	31.9	13.75	29.03	361	263	P	V
	*	5785	119.78	-	-	102.91	32.07	13.81	29.01	361	263	P	V
	*	5785	112.05	-	-	95.18	32.07	13.81	29.01	361	263	A	V
		5851.2	59.23	-60.23	119.46	42.32	32.1	13.81	29	361	263	P	V
		5855	58.06	-52.74	110.8	41.13	32.11	13.81	28.99	361	263	P	V
		5876.6	57.99	-46.02	104.01	41.02	32.15	13.81	28.99	361	263	P	V
		5950	55.7	-12.5	68.2	38.46	32.4	13.81	28.97	361	263	P	V
													V
													V

WIFI Ant. 1+2	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	120.8	-	-	103.88	32.1	13.82	29	221	15	P	H
	*	5825	113.6	-	-	96.68	32.1	13.82	29	221	15	A	H
		5850	92.06	-30.14	122.2	75.15	32.1	13.81	29	221	15	P	H
		5857	86.3	-23.94	110.24	69.37	32.11	13.81	28.99	221	15	P	H
		5875.6	70.89	-33.86	104.75	53.92	32.15	13.81	28.99	221	15	P	H
		5931.8	59.19	-9.01	68.2	42.03	32.33	13.81	28.98	221	15	P	H
													H
													H
	*	5825	120.12	-	-	103.2	32.1	13.82	29	359	269	P	V
	*	5825	112.22	-	-	95.3	32.1	13.82	29	359	269	A	V
		5850	86.6	-35.6	122.2	69.69	32.1	13.81	29	359	269	P	V
		5855.8	82	-28.58	110.58	65.07	32.11	13.81	28.99	359	269	P	V
		5877.6	64.88	-38.39	103.27	47.9	32.16	13.81	28.99	359	269	P	V
		5931.6	57.6	-10.6	68.2	40.44	32.33	13.81	28.98	359	269	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	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)
		11490	49.92	-24.08	74	50.61	40.1	20.11	60.9	100	0	P	H
		17235	56.56	-11.64	68.2	49.38	40.84	25.16	58.82	100	0	P	H
802.11ax													H
HE20 Full													H
CH 149		11490	49.98	-24.02	74	50.67	40.1	20.11	60.9	100	0	P	V
5745MHz		17235	66.4	-1.8	68.2	59.22	40.84	25.16	58.82	154	131	P	V
													V
													V
		11570	49.96	-24.04	74	50.87	39.89	20.18	60.98	100	0	P	H
		17355	58.58	-9.62	68.2	50.66	41.38	25.21	58.67	100	0	P	H
802.11ax													H
HE20 Full													H
CH 157		11570	49.95	-24.05	74	50.86	39.89	20.18	60.98	100	0	P	V
5785MHz		17355	65.96	-2.24	68.2	58.04	41.38	25.21	58.67	157	131	P	V
													V
													V
		11650	53.5	-20.5	74	54.75	39.6	20.23	61.08	240	148	P	H
		11650	43.94	-10.06	54	45.19	39.6	20.23	61.08	240	148	A	H
802.11ax		17475	60.93	-7.27	68.2	52.24	41.97	25.25	58.53	100	0	P	H
HE20 Full													H
CH 165		11650	55.31	-18.69	74	56.56	39.6	20.23	61.08	250	23	P	V
5825MHz		11650	46.14	-7.86	54	47.39	39.6	20.23	61.08	250	23	A	V
		17475	66.74	-1.46	68.2	58.05	41.97	25.25	58.53	155	131	P	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. 1+2	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)
		5647.2	64.46	-3.74	68.2	48.12	31.7	13.68	29.04	237	32	P	H
		5652.4	68.34	-1.64	69.98	51.99	31.7	13.69	29.04	237	32	P	H
		5692.6	76.97	-22.77	99.74	60.49	31.79	13.72	29.03	237	32	P	H
		5719.6	94.03	-16.66	110.69	77.43	31.88	13.75	29.03	237	32	P	H
	*	5755	118.19	-	-	101.42	32.01	13.78	29.02	237	32	P	H
	*	5755	112.81	-	-	96.04	32.01	13.78	29.02	237	32	A	H
		5851	63.62	-56.3	119.92	46.71	32.1	13.81	29	237	32	P	H
		5855.2	60.86	-49.88	110.74	43.93	32.11	13.81	28.99	237	32	P	H
		5890.2	58.71	-35.21	93.92	41.71	32.18	13.81	28.99	237	32	P	H
		5928.2	57.2	-11	68.2	40.06	32.31	13.81	28.98	237	32	P	H
802.11ax													H
HE40 Full													H
CH 151		5647.8	65.23	-2.97	68.2	48.89	31.7	13.68	29.04	383	263	P	V
5755MHz		5694	76.27	-24.51	100.78	59.79	31.79	13.72	29.03	383	263	P	V
		5719.4	93.5	-17.13	110.63	76.9	31.88	13.75	29.03	383	263	P	V
		5721.4	96.23	-17.76	113.99	79.62	31.89	13.75	29.03	383	263	P	V
	*	5755	117.36	-	-	100.59	32.01	13.78	29.02	383	263	P	V
	*	5755	111.18	-	-	94.41	32.01	13.78	29.02	383	263	A	V
		5853.8	62.76	-50.78	113.54	45.84	32.11	13.81	29	383	263	P	V
		5856.6	62.06	-48.29	110.35	45.13	32.11	13.81	28.99	383	263	P	V
		5884.6	58.21	-39.86	98.07	41.22	32.17	13.81	28.99	383	263	P	V
		5933.6	56.44	-11.76	68.2	39.28	32.33	13.81	28.98	383	263	P	V
													V
													V

WIFI Ant. 1+2	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)
		5630	64.28	-3.92	68.2	47.96	31.7	13.67	29.05	238	32	P	H
		5699.2	72.09	-32.52	104.61	55.59	31.8	13.73	29.03	238	32	P	H
		5717	79.43	-30.53	109.96	62.84	31.87	13.75	29.03	238	32	P	H
		5724.8	80.33	-41.41	121.74	63.71	31.9	13.75	29.03	238	32	P	H
	*	5795	120.84	-	-	103.94	32.09	13.82	29.01	238	32	P	H
	*	5795	114.22	-	-	97.32	32.09	13.82	29.01	238	32	A	H
		5850.6	84.62	-36.21	120.83	67.71	32.1	13.81	29	238	32	P	H
		5859.4	82.02	-27.55	109.57	65.08	32.12	13.81	28.99	238	32	P	H
		5880	75.03	-26.46	101.49	58.05	32.16	13.81	28.99	238	32	P	H
		5926	63.93	-4.27	68.2	46.8	32.3	13.81	28.98	238	32	P	H
802.11ax													H
HE40 Full													H
CH 159		5647.8	63.74	-4.46	68.2	47.4	31.7	13.68	29.04	395	265	P	V
5795MHz		5661.2	70.35	-6.17	76.52	53.97	31.72	13.7	29.04	395	265	P	V
		5715.2	76.02	-33.44	109.46	59.45	31.86	13.74	29.03	395	265	P	V
		5724.8	78.49	-43.25	121.74	61.87	31.9	13.75	29.03	395	265	P	V
	*	5795	118.16	-	-	101.26	32.09	13.82	29.01	395	265	P	V
	*	5795	113.67	-	-	96.77	32.09	13.82	29.01	395	265	A	V
		5851.2	83.18	-36.28	119.46	66.27	32.1	13.81	29	395	265	P	V
		5855.4	80.39	-30.3	110.69	63.46	32.11	13.81	28.99	395	265	P	V
		5883	71.6	-27.66	99.26	54.61	32.17	13.81	28.99	395	265	P	V
		5927.8	64.58	-3.62	68.2	47.44	32.31	13.81	28.98	395	265	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	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)
		11510	49.79	-24.21	74	50.5	40.07	20.13	60.91	100	0	P	H
		17265	53.23	-14.97	68.2	45.88	40.96	25.17	58.78	100	0	P	H
802.11ax													H
HE40 Full													H
CH 151		11510	52.12	-21.88	74	52.83	40.07	20.13	60.91	233	19	P	V
5755MHz		11510	42.62	-11.38	54	43.33	40.07	20.13	60.91	233	19	A	V
		17265	55.82	-12.38	68.2	48.47	40.96	25.17	58.78	100	0	P	V
													V
		11590	53.96	-20.04	74	54.95	39.83	20.19	61.01	232	149	P	H
		11590	43.54	-10.46	54	44.53	39.83	20.19	61.01	232	149	A	H
802.11ax		17385	60.87	-7.33	68.2	52.77	41.52	25.22	58.64	100	0	P	H
HE40 Full													H
CH 159		11590	54.7	-19.3	74	55.69	39.83	20.19	61.01	229	19	P	V
5795MHz		11590	45.88	-8.12	54	46.87	39.83	20.19	61.01	229	19	A	V
		17385	66.77	-1.43	68.2	58.67	41.52	25.22	58.64	152	131	P	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. 1+2	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)
		5649.2	66.41	-1.79	68.2	50.07	31.7	13.68	29.04	234	42	P	H
		5699.2	80.45	-24.16	104.61	63.95	31.8	13.73	29.03	234	42	P	H
		5720	85.67	-25.13	110.8	69.07	31.88	13.75	29.03	234	42	P	H
		5724.6	86.6	-34.69	121.29	69.98	31.9	13.75	29.03	234	42	P	H
	*	5775	119.49	-	-	102.65	32.05	13.8	29.01	234	42	P	H
	*	5775	113.03	-	-	96.19	32.05	13.8	29.01	234	42	A	H
		5854.6	76.41	-35.3	111.71	59.48	32.11	13.81	28.99	234	42	P	H
		5869.2	75.33	-31.49	106.82	58.37	32.14	13.81	28.99	234	42	P	H
		5876.2	70.14	-34.17	104.31	53.17	32.15	13.81	28.99	234	42	P	H
		5928.2	60.1	-8.1	68.2	42.96	32.31	13.81	28.98	234	42	P	H
802.11ax													H
HE80 Full													H
CH 155		5644.4	64.63	-3.57	68.2	48.3	31.7	13.68	29.05	359	358	P	V
5775MHz		5697.6	76.92	-26.51	103.43	60.42	31.8	13.73	29.03	359	358	P	V
		5709	80.41	-27.31	107.72	63.86	31.84	13.74	29.03	359	358	P	V
		5722	81.84	-33.52	115.36	65.23	31.89	13.75	29.03	359	358	P	V
	*	5775	117.89	-	-	101.05	32.05	13.8	29.01	359	358	P	V
	*	5775	111.03	-	-	94.19	32.05	13.8	29.01	359	358	A	V
		5852.8	75.5	-40.32	115.82	58.58	32.11	13.81	29	359	358	P	V
		5855.4	74.9	-35.79	110.69	57.97	32.11	13.81	28.99	359	358	P	V
		5875	72.49	-32.71	105.2	55.52	32.15	13.81	28.99	359	358	P	V
		5926.6	62.38	-5.82	68.2	45.24	32.31	13.81	28.98	359	358	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. 1+2	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)
		11550	49.63	-24.37	74	50.48	39.95	20.16	60.96	100	0	P	H
		17325	51.18	-17.02	68.2	43.47	41.22	25.2	58.71	100	0	P	H
802.11ax													H
HE80 Full													H
CH 155		11550	49.53	-24.47	74	50.38	39.95	20.16	60.96	100	0	P	V
5775MHz		17325	51.43	-16.77	68.2	43.72	41.22	25.2	58.71	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average 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	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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 CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		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”.

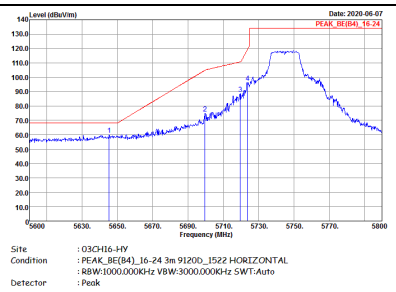
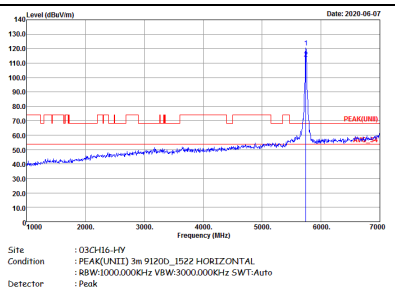
Appendix D. Radiated Spurious Emission Plots

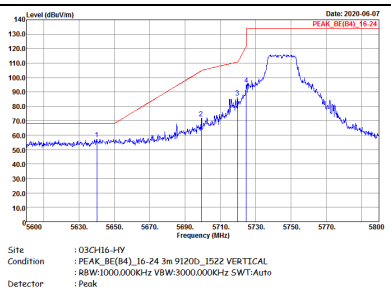
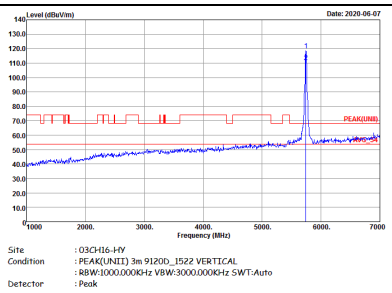
Test Engineer :	Andy Yang, Karl Hou, and CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~65%

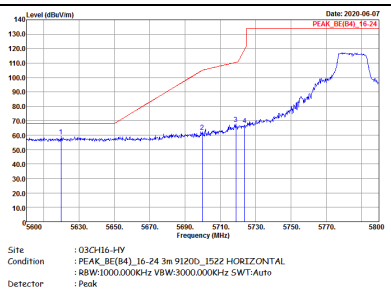
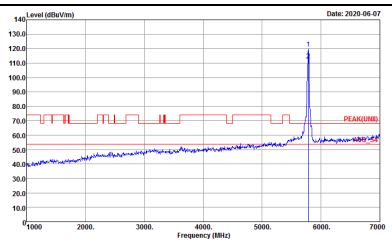
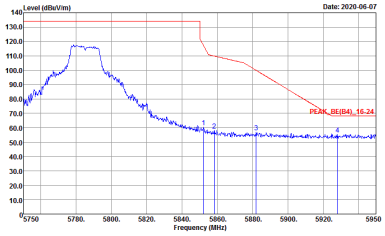
<CDD Mode>

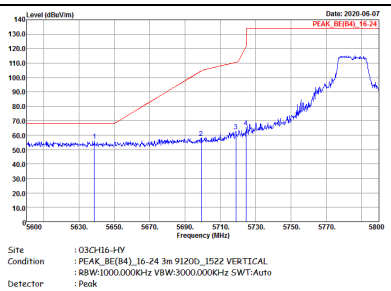
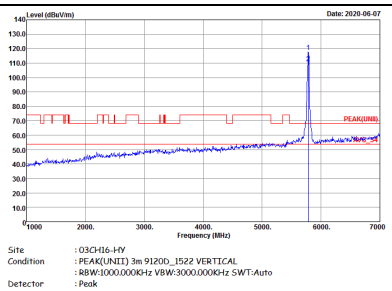
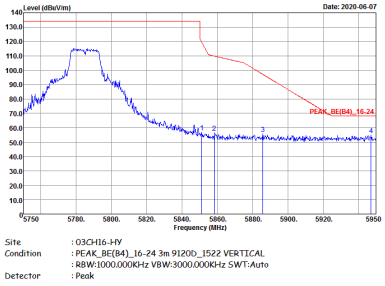
Band 4 - 5725~5850MHz

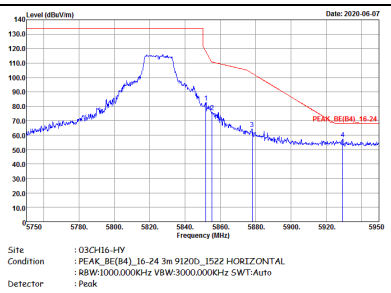
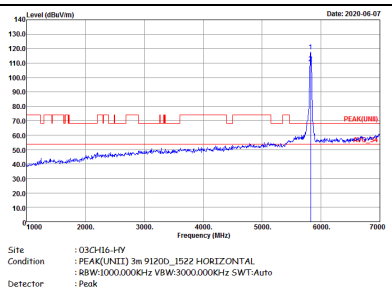
WIFI 802.11a (Band Edge @ 3m)

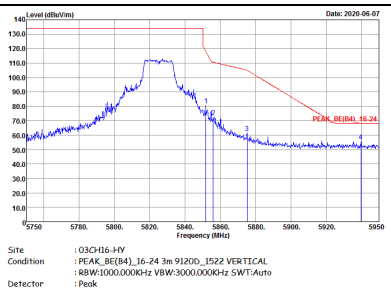
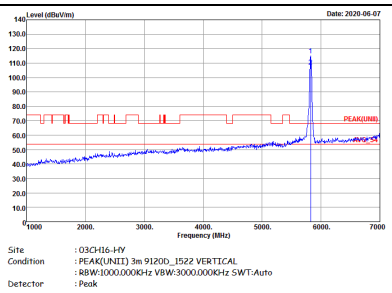
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank

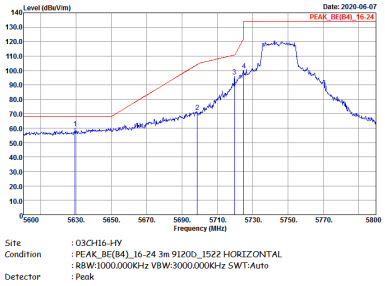
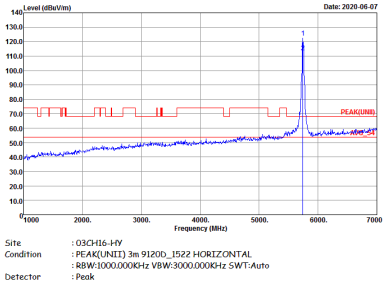
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

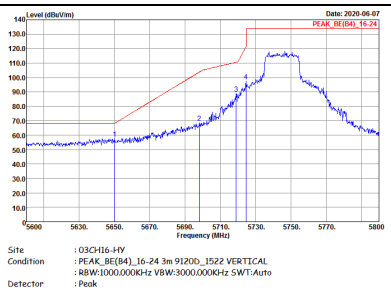
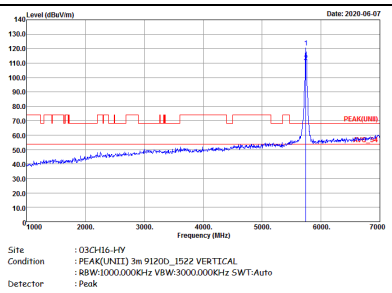
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

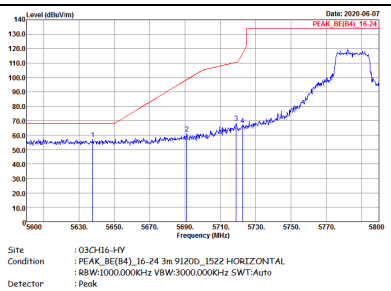
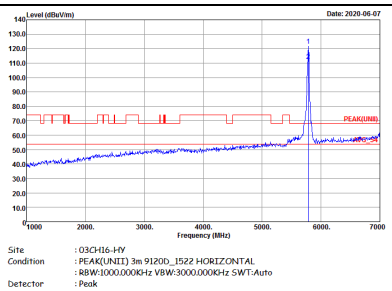
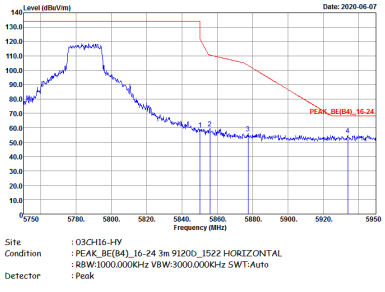
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak		

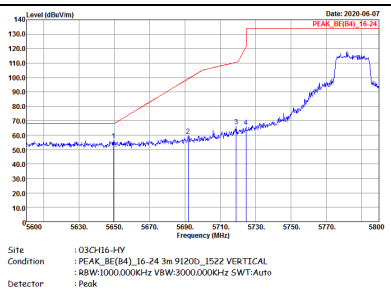
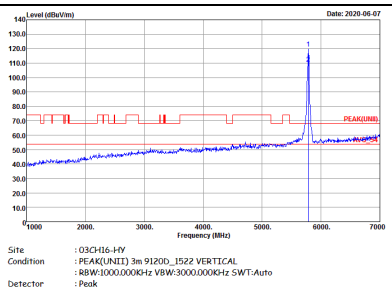
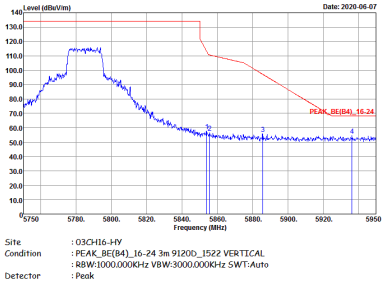
Band 4 5725~5850MHz

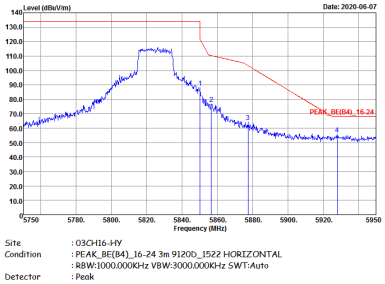
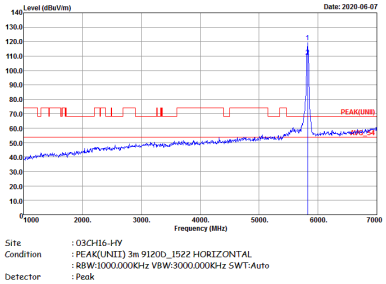
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

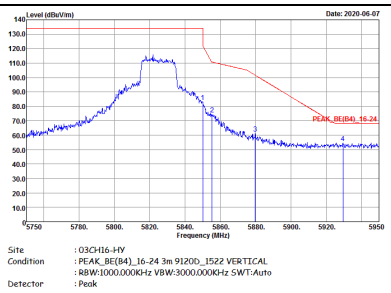
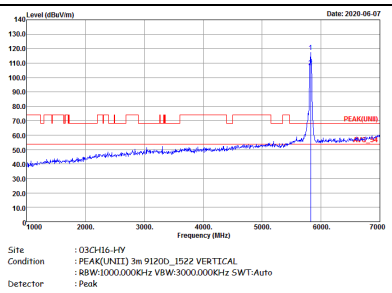
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1	Vertical	Fundamental
Peak		

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

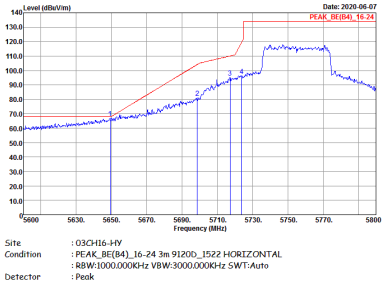
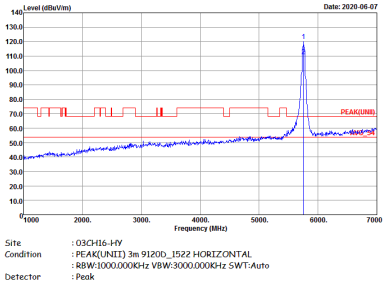
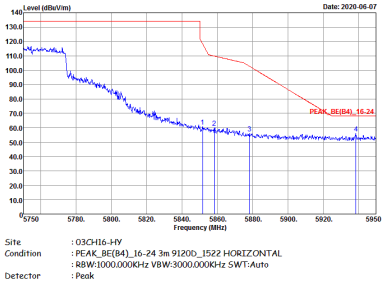
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

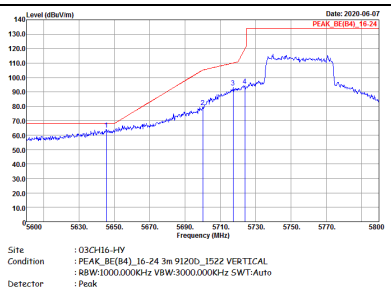
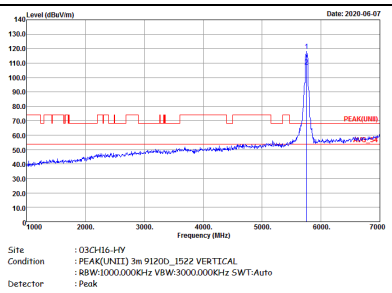
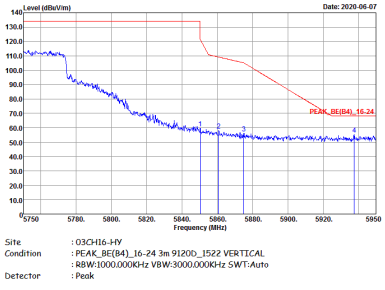
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak

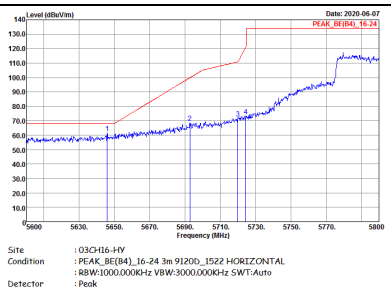
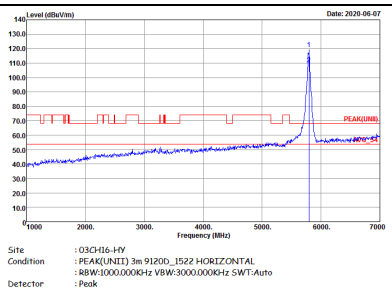
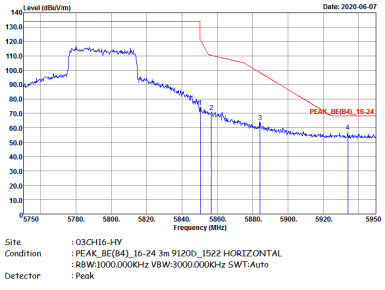
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1	Vertical	Fundamental
Peak		

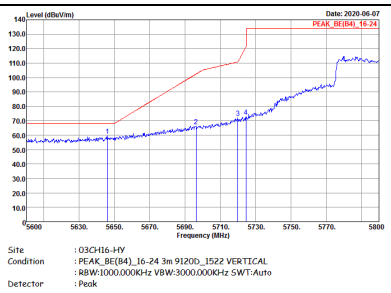
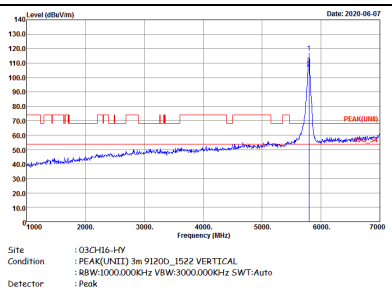
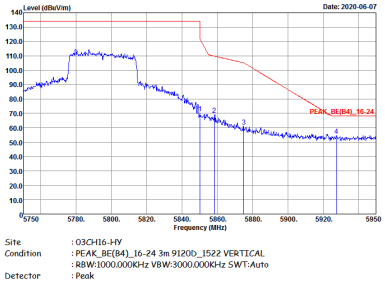
Band 4 5725~5850MHz

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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

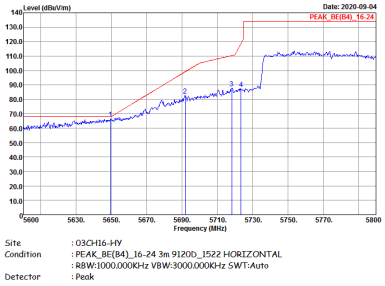
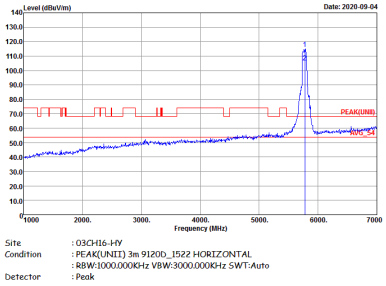
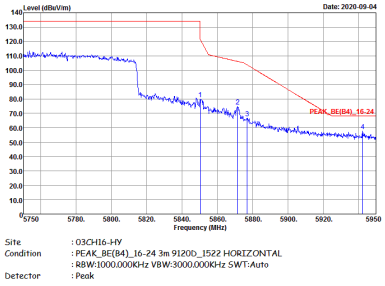
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

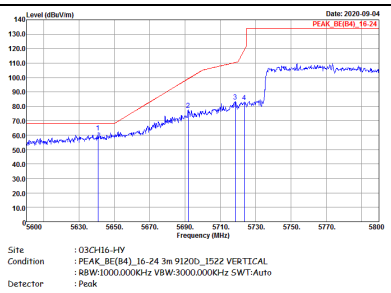
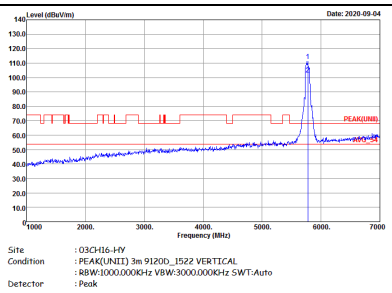
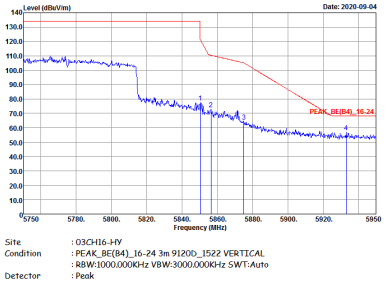
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

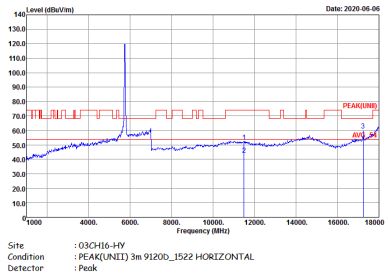
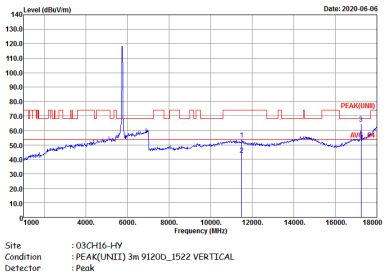
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

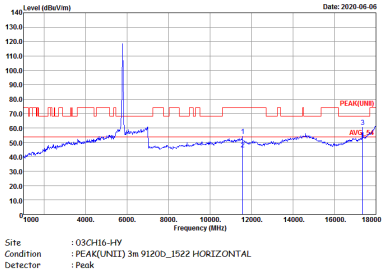
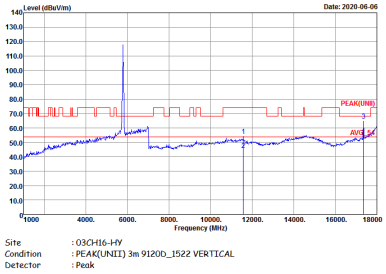
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

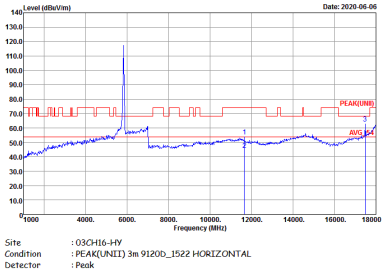
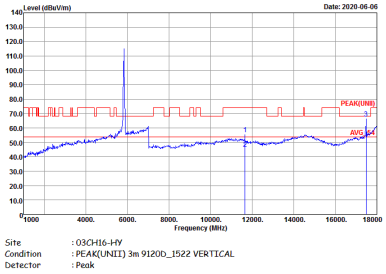
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

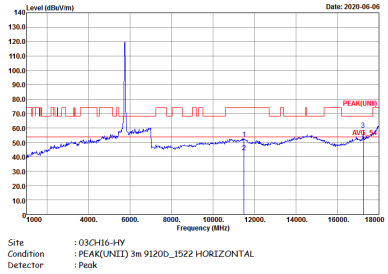
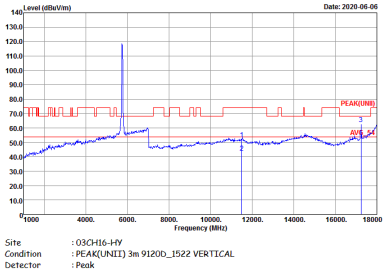
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

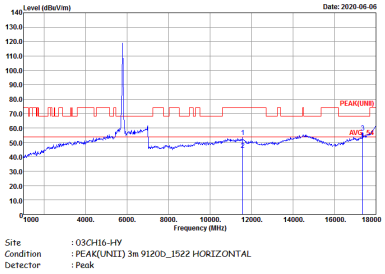
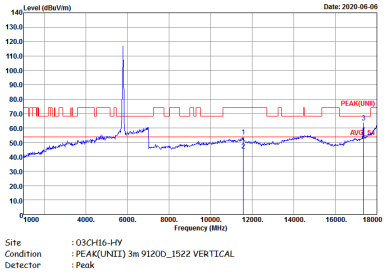
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

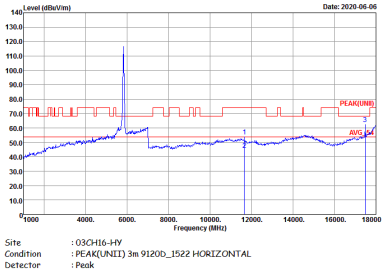
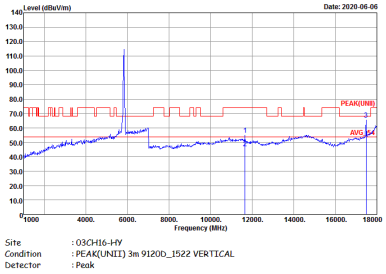
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

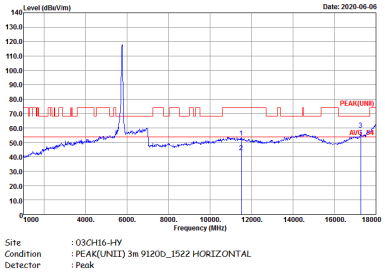
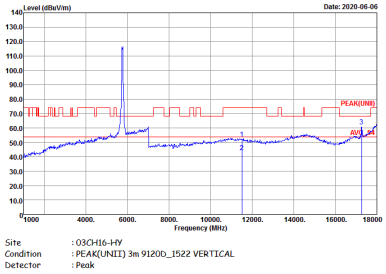
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

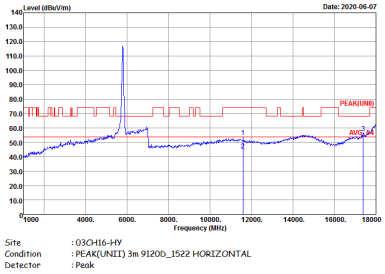
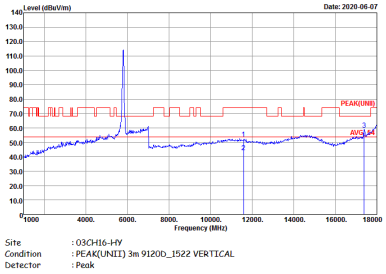
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

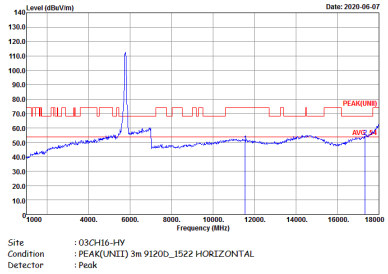
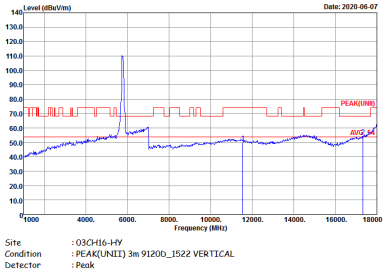
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.		

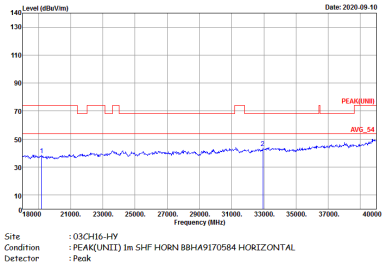
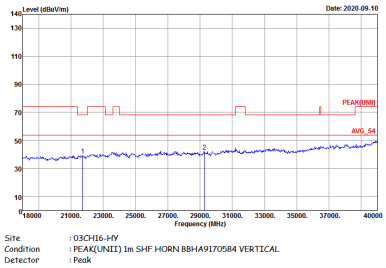
Band 4 5725~5850MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.		

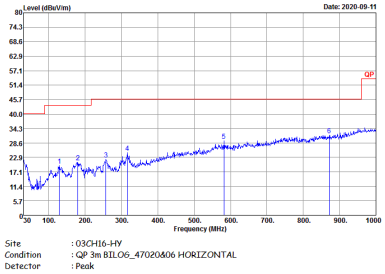
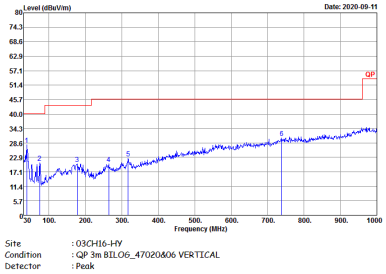
Emission above 18GHz

5GHz WIFI 802.11ax HE80 Full (SHF)

WIFI	5GHz WIFI	
ANT	802.11ax HE80 Full SHF	
1	Horizontal	Vertical
QP / Peak		

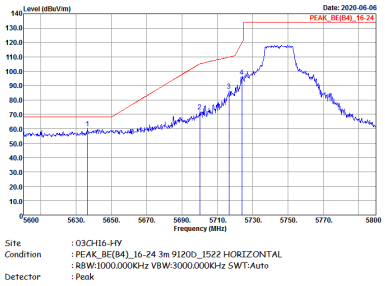
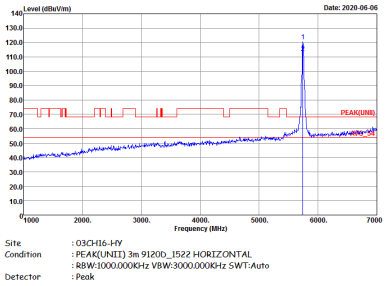
Emission below 1GHz

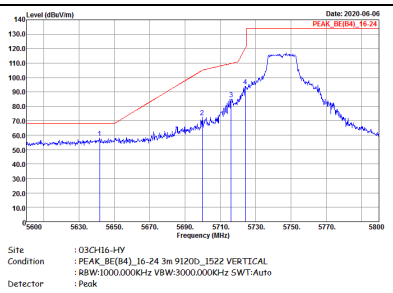
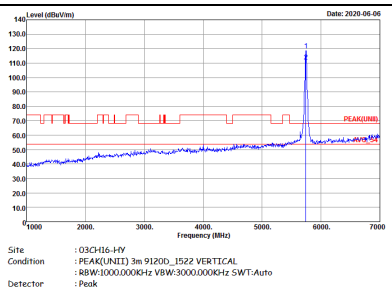
5GHz WIFI 802.11ax HE80 Full (LF)

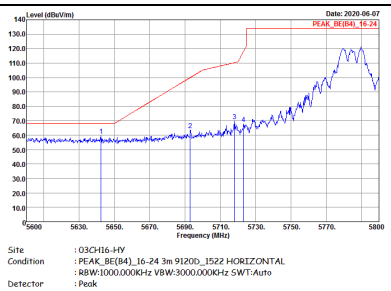
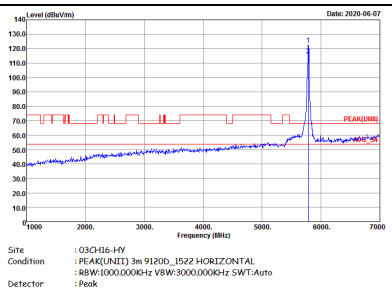
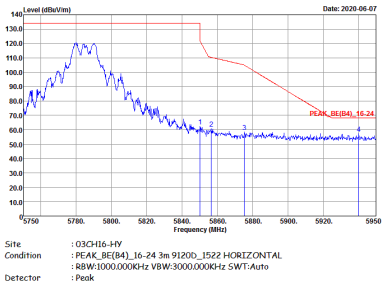
WIFI	5GHz WIFI	
ANT	802.11ax HE80 Full LF	
1	Horizontal	Vertical
QP / Peak		

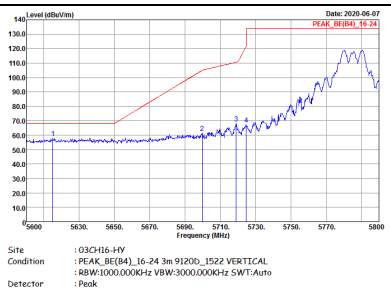
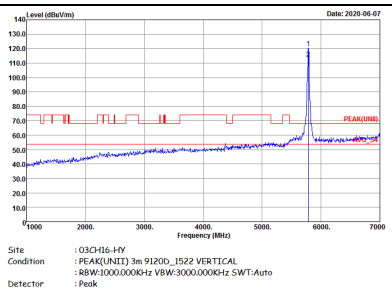
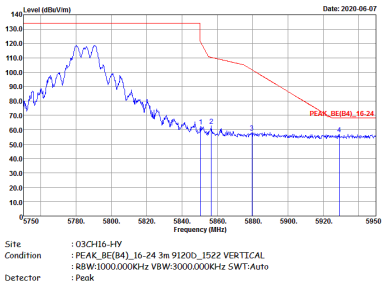
Band 4 - 5725~5850MHz

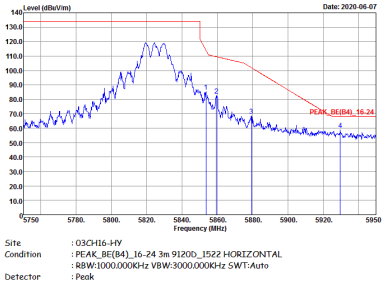
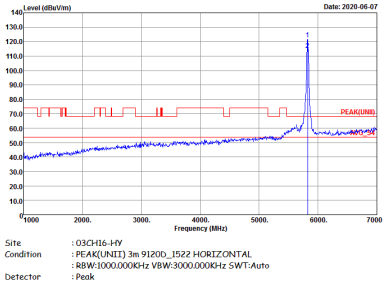
WIFI 802.11a (Band Edge @ 3m)

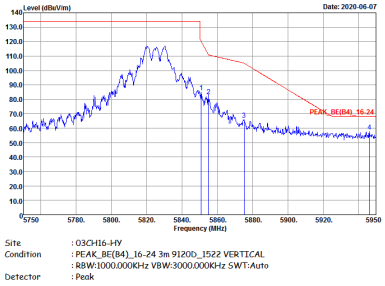
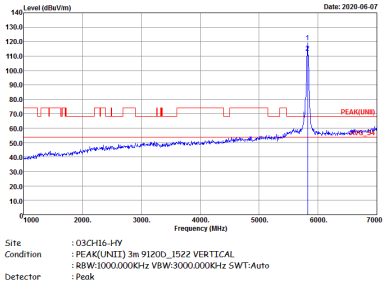
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank

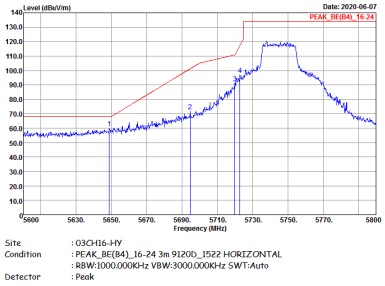
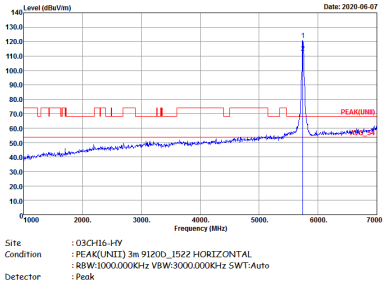
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

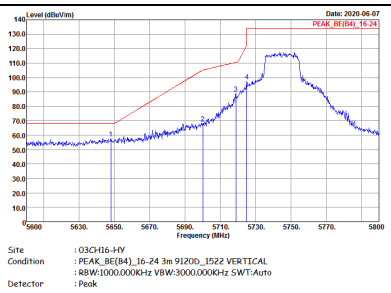
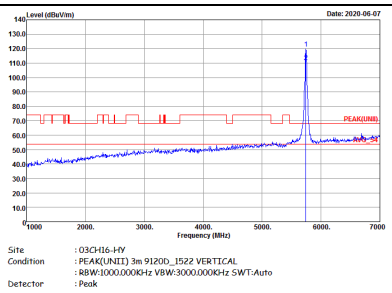
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

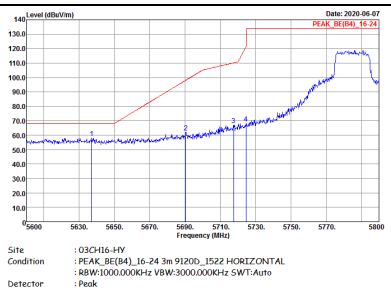
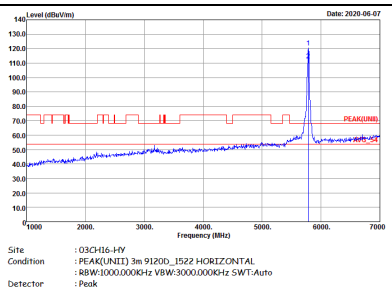
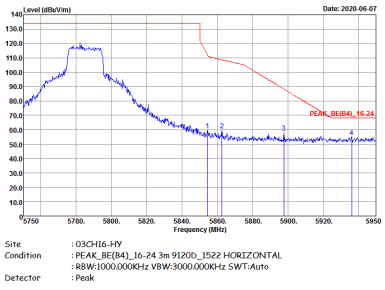
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

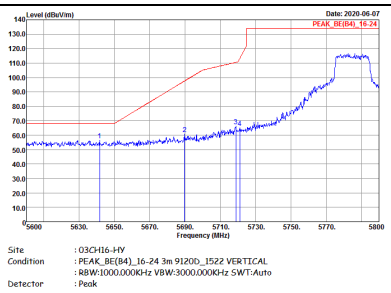
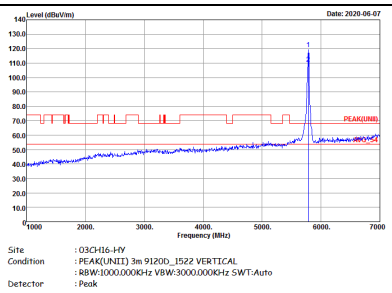
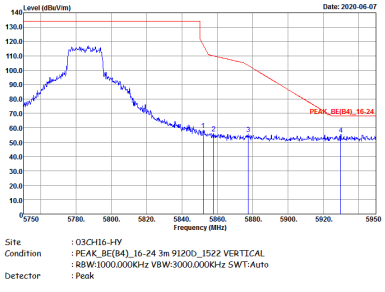
Band 4 5725~5850MHz

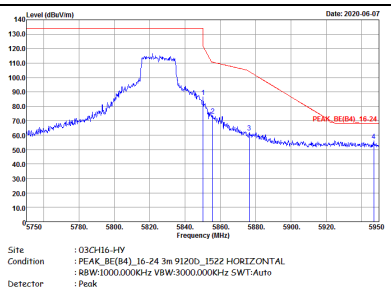
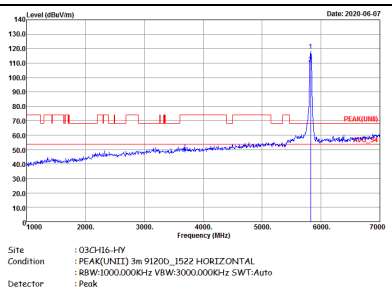
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

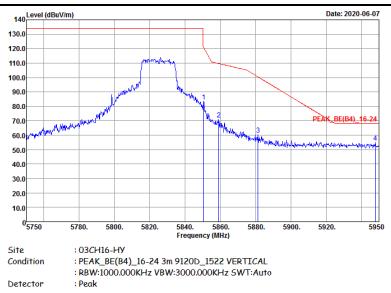
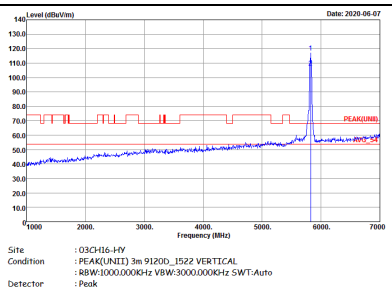
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

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

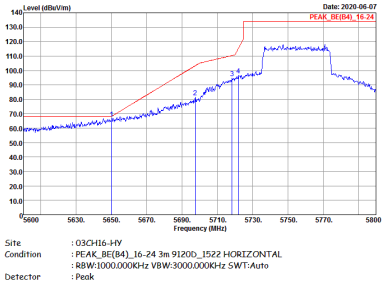
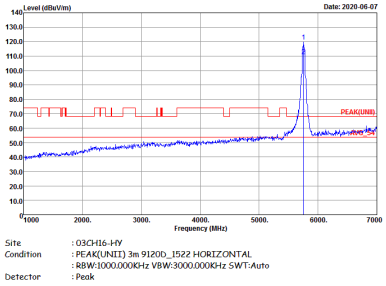
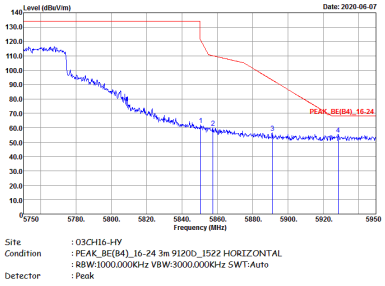
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

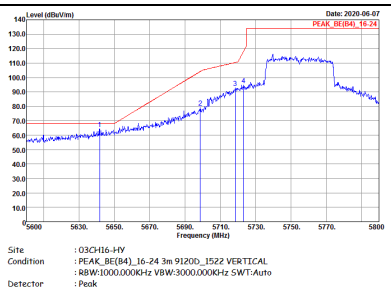
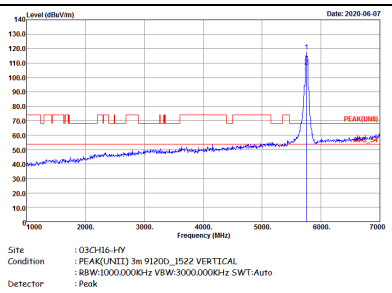
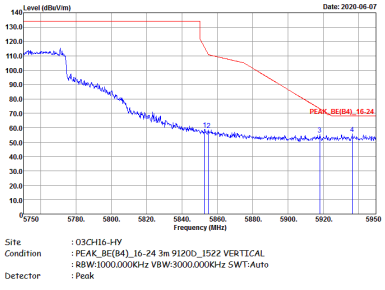
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

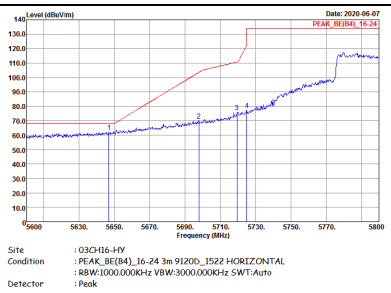
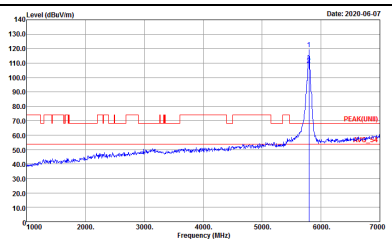
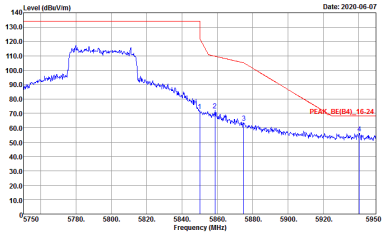
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

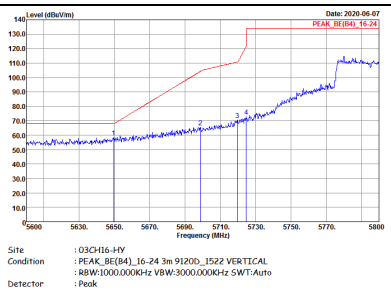
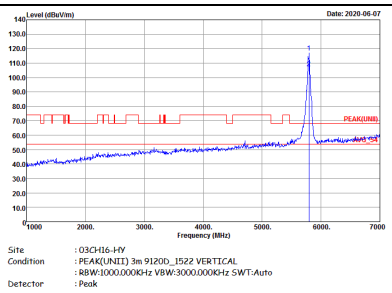
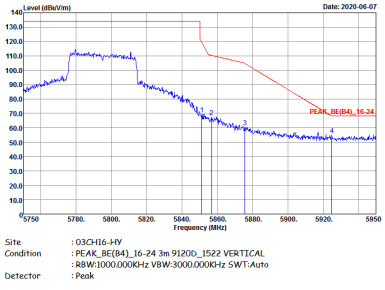
Band 4 5725~5850MHz

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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

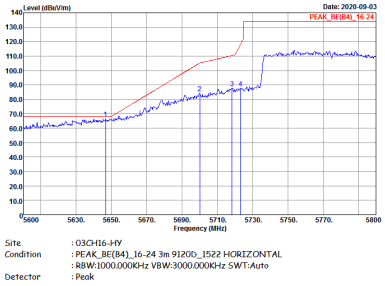
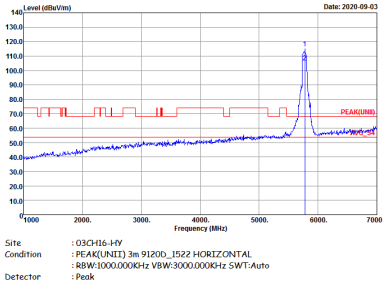
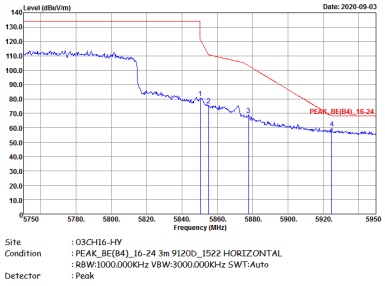
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

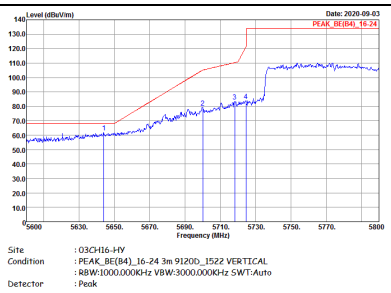
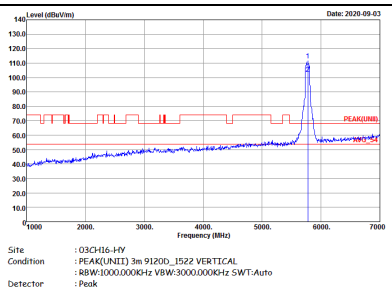
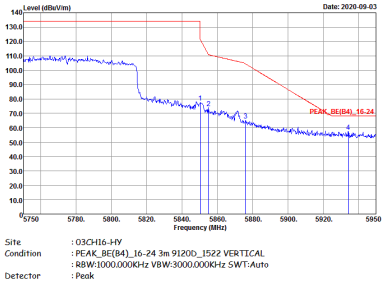
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

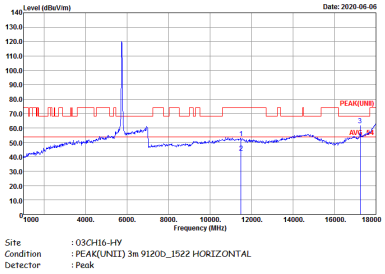
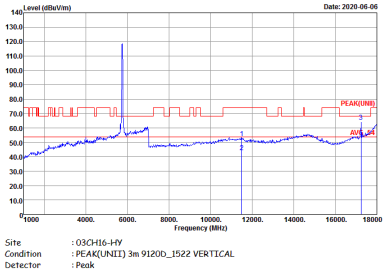
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

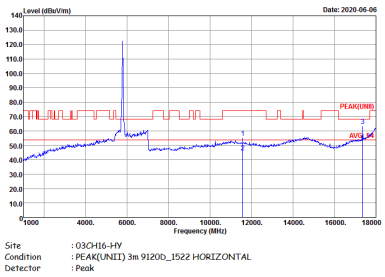
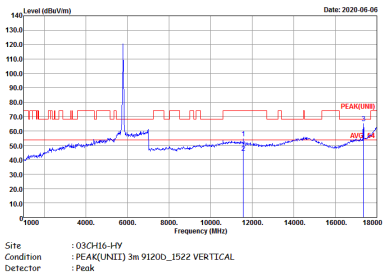
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

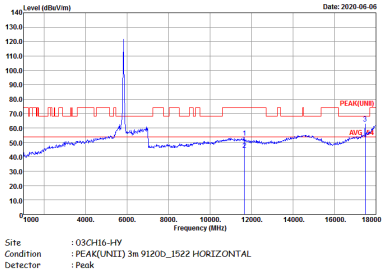
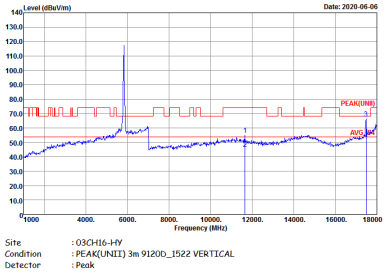
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

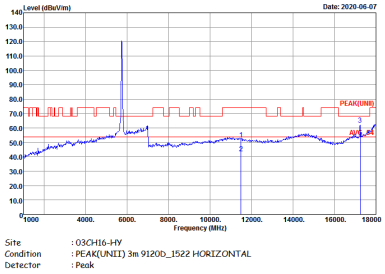
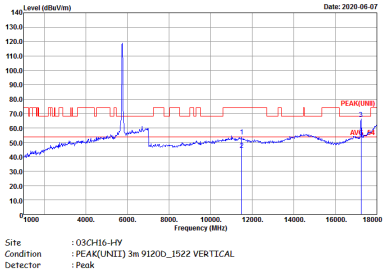
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

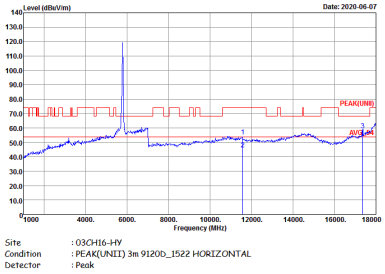
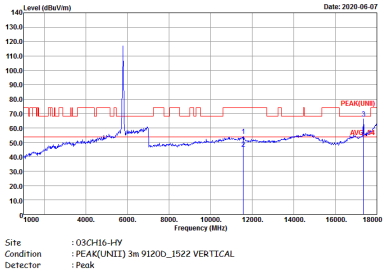
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

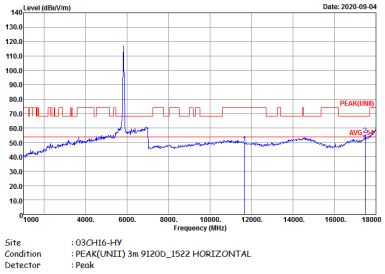
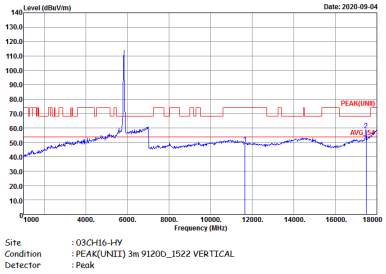
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

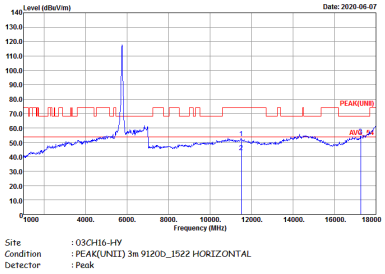
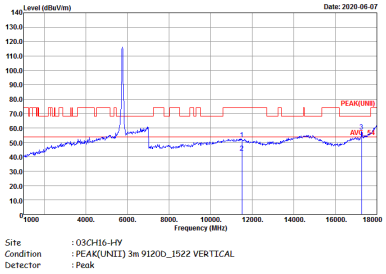
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

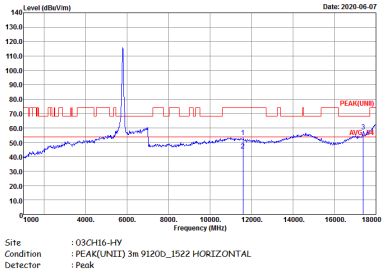
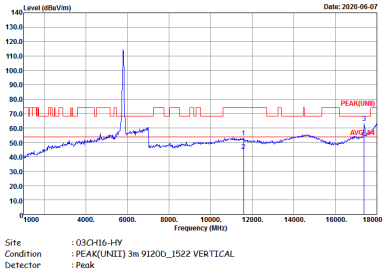
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

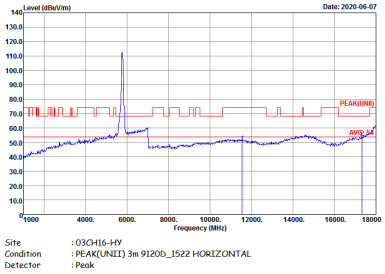
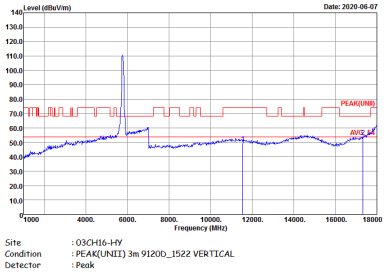
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

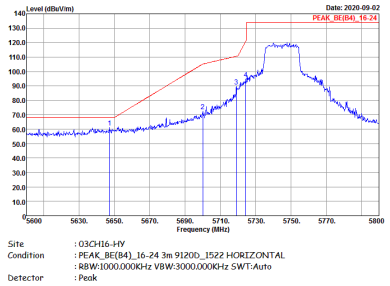
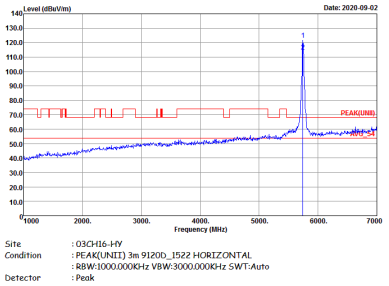
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

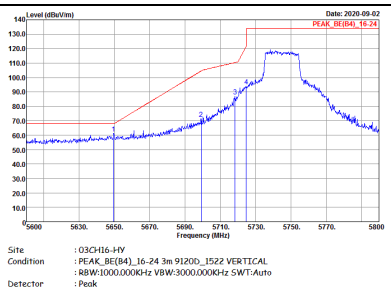
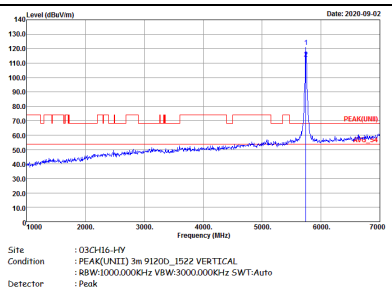
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

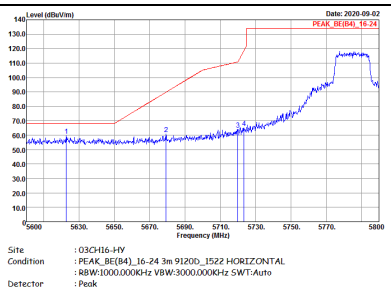
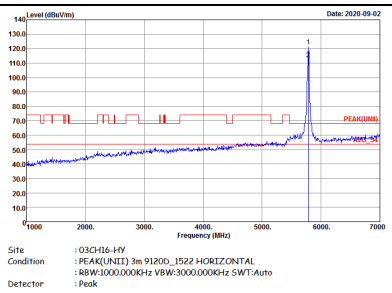
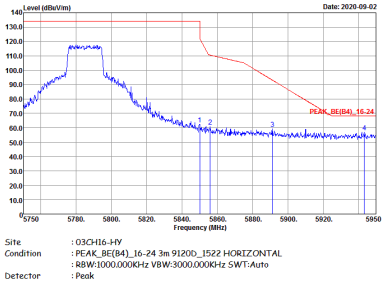
<TXBF Mode>

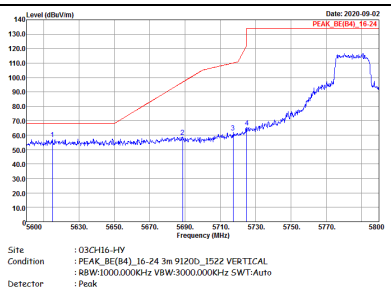
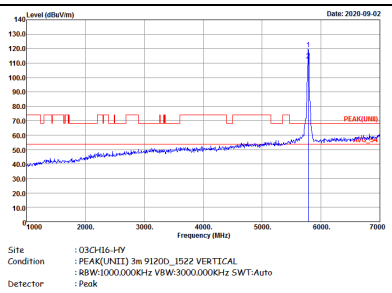
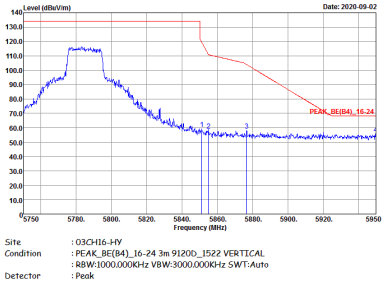
Band 4 - 5725~5850MHz

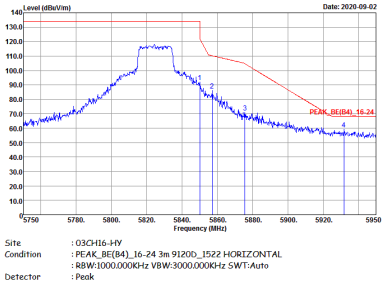
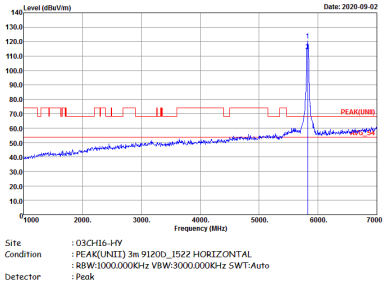
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

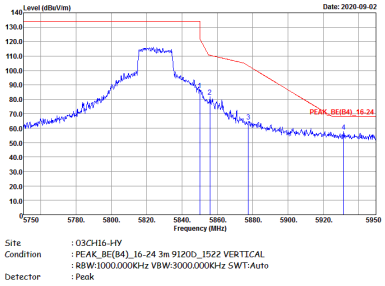
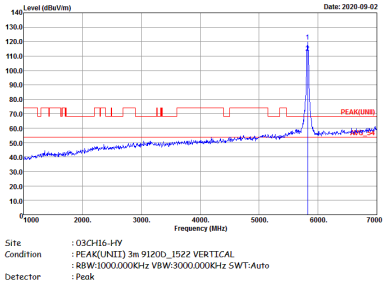
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

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

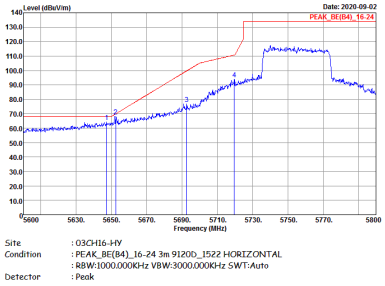
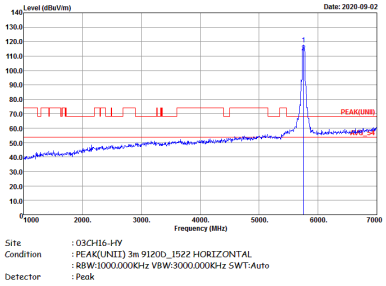
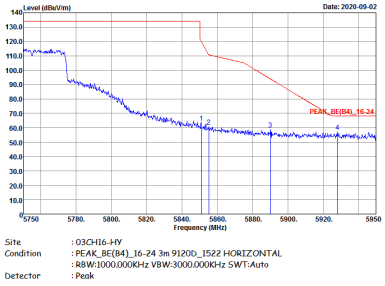
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

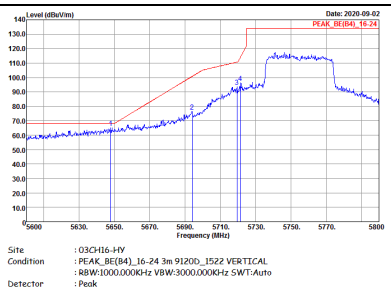
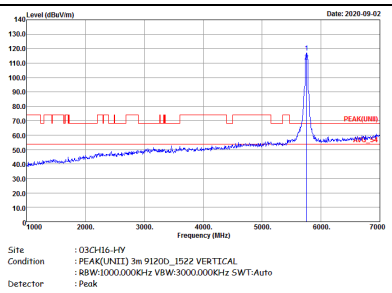
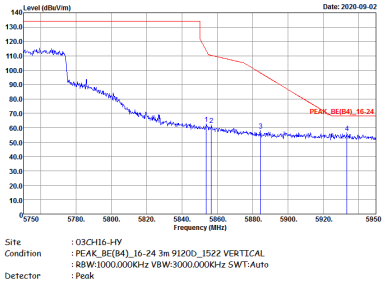
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak

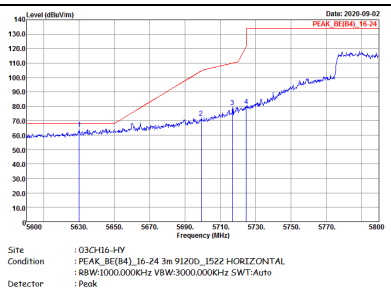
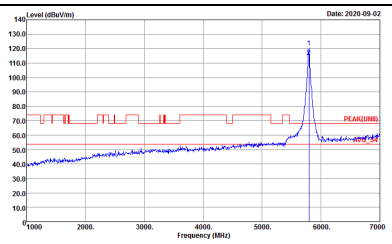
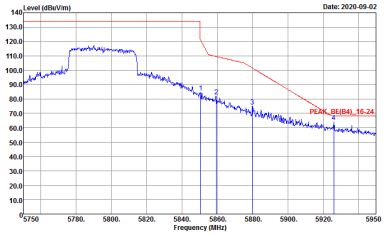
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

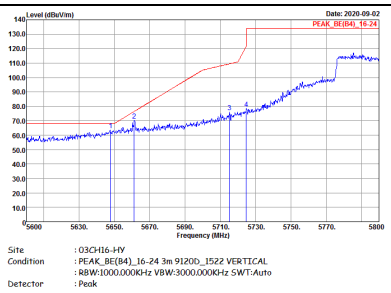
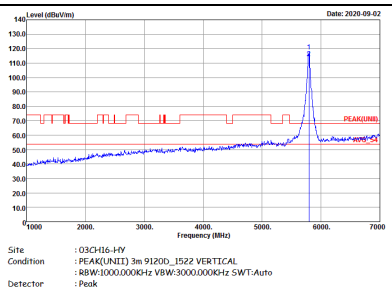
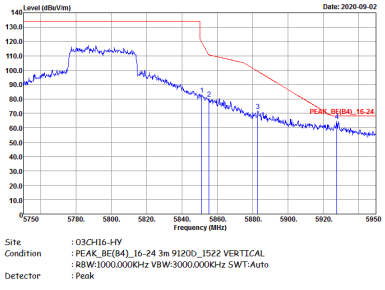
Band 4 5725~5850MHz

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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

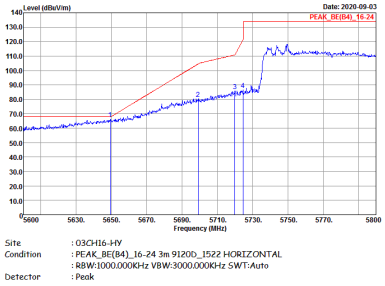
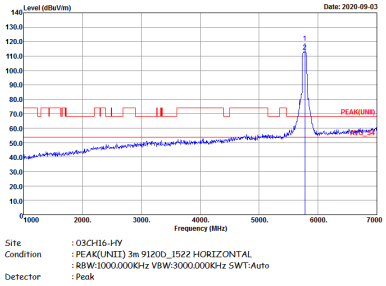
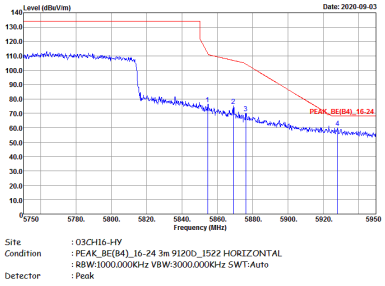
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

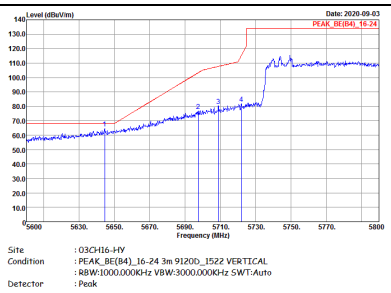
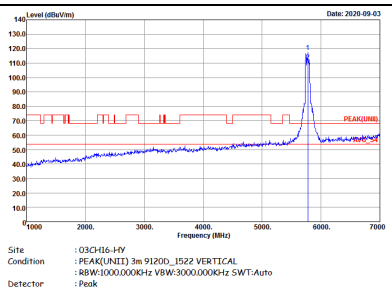
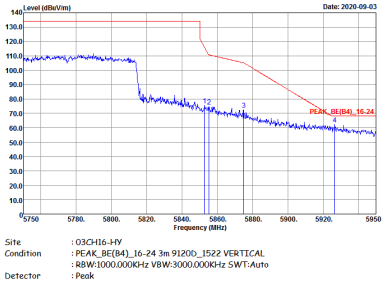
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

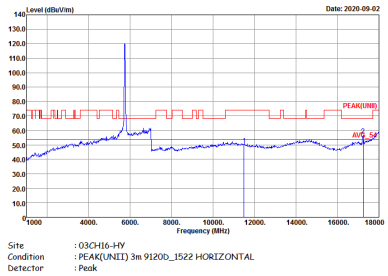
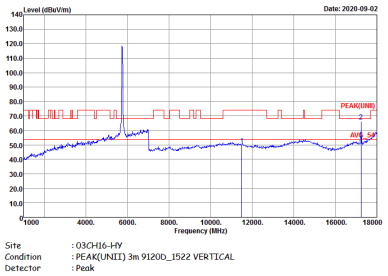
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

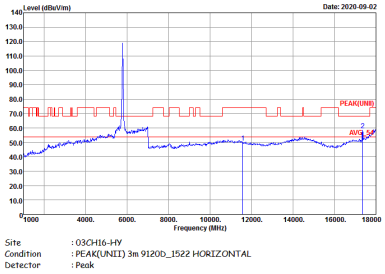
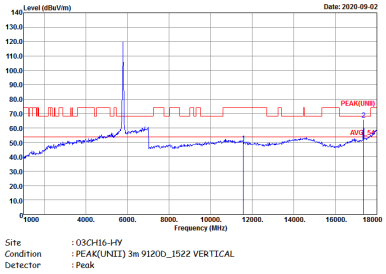
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

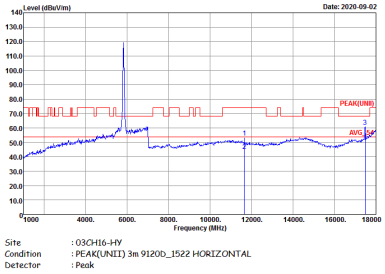
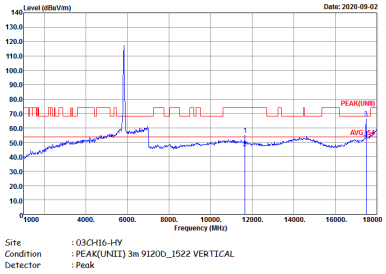
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

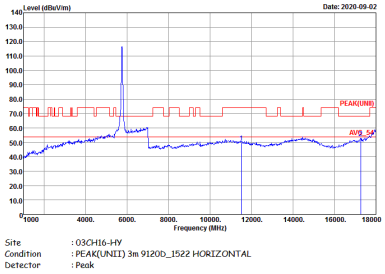
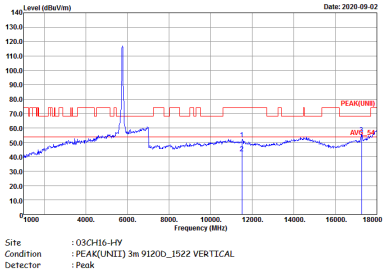
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

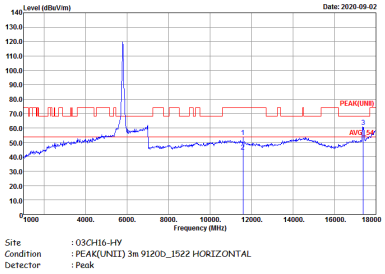
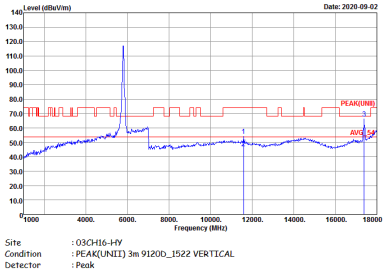
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

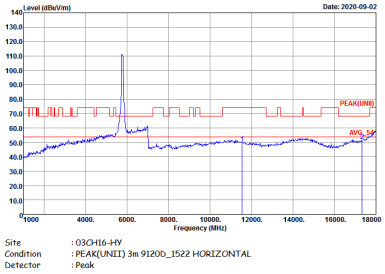
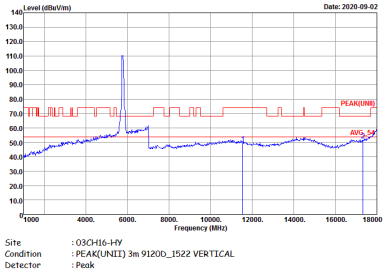
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

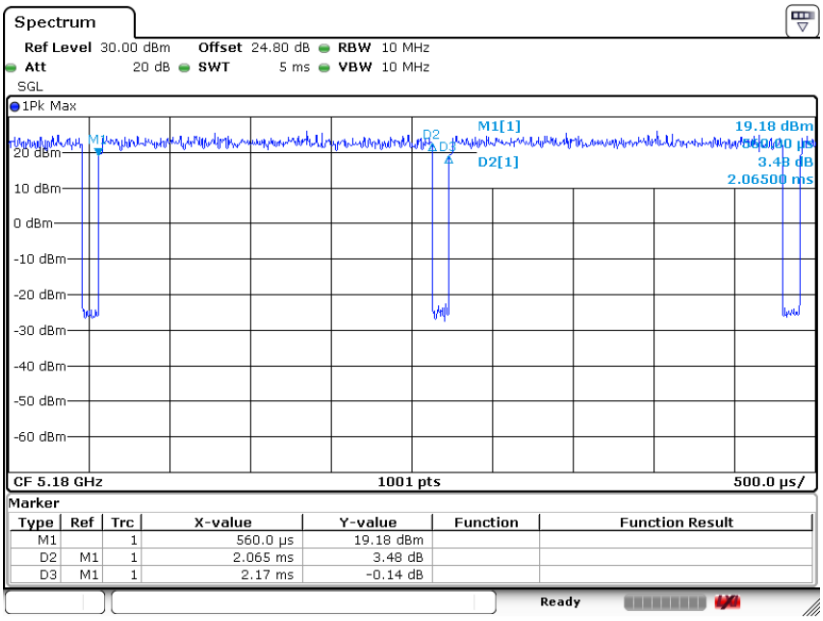
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	95.16	2065	0.48	1kHz	0.22
1+2	802.11a for Ant. 1	94.93	2060	0.49	1kHz	0.23
1+2	802.11a for Ant. 2	94.93	2060	0.49	1kHz	0.23
1	5GHz 802.11ax HE20 Full RU	98.03	-	-	10Hz	0.09
1+2	5GHz 802.11ax HE20 Full RU for Ant 1	98.03	-	-	10Hz	0.09
1+2	5GHz 802.11ax HE20 Full RU for Ant 2	98.03	-	-	10Hz	0.09
1	5GHz 802.11ax HE40 Full RU	96.25	770	1.30	3kHz	0.17
1+2	5GHz 802.11ax HE40 Full RU for Ant 1	96.30	780	1.28	3kHz	0.16
1+2	5GHz 802.11ax HE40 Full RU for Ant 2	96.30	780	1.28	3kHz	0.16
1	5GHz 802.11ax HE80 Full RU	93.02	400	2.50	3kHz	0.31
1+2	5GHz 802.11ax HE80 Full RU for Ant 1	93.02	400	2.50	3kHz	0.31
1+2	5GHz 802.11ax HE80 Full RU for Ant 2	91.95	400	2.50	3kHz	0.36

<Ant. 1>

802.11a



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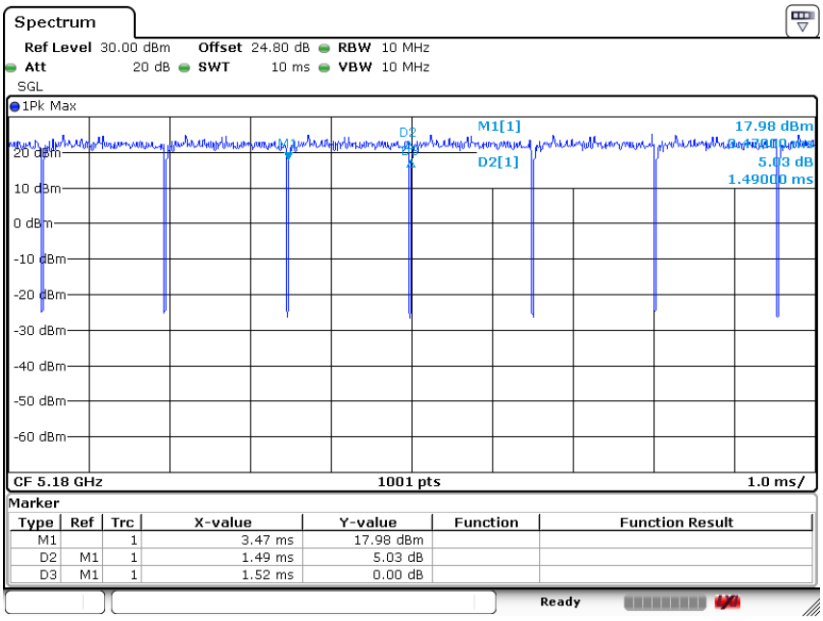
802.11ax HE20 Full RU



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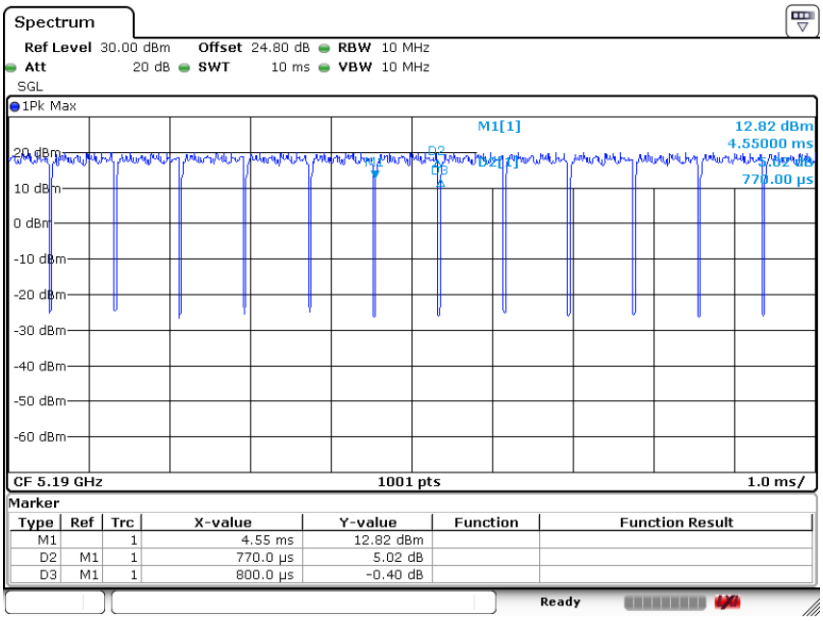
802.11ax HE40 Full RU



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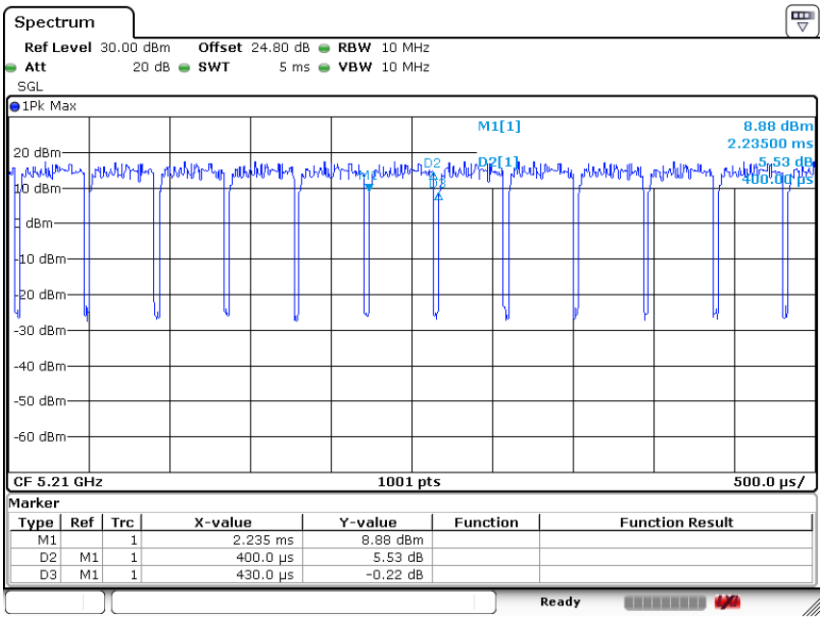
802.11ax HE80 Full RU



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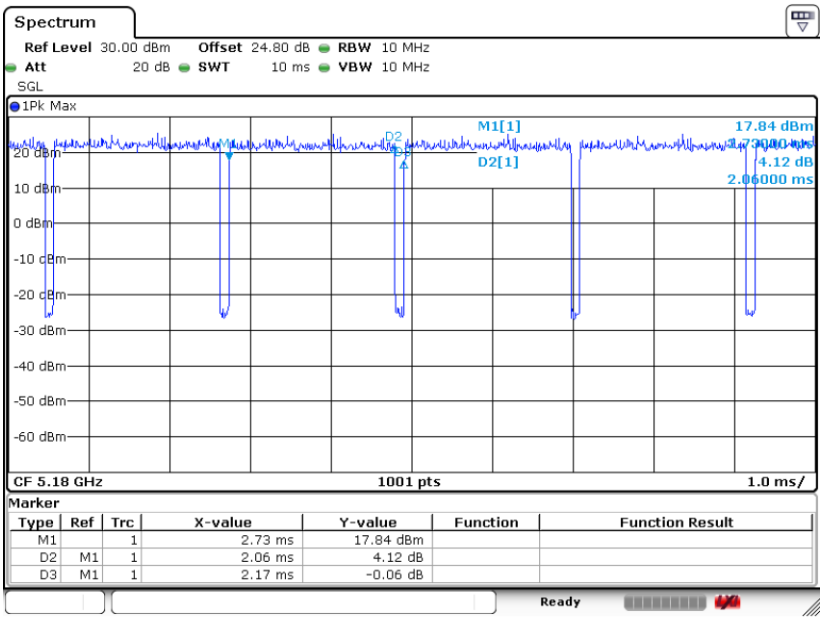
MIMO <Ant. 1>

802.11a



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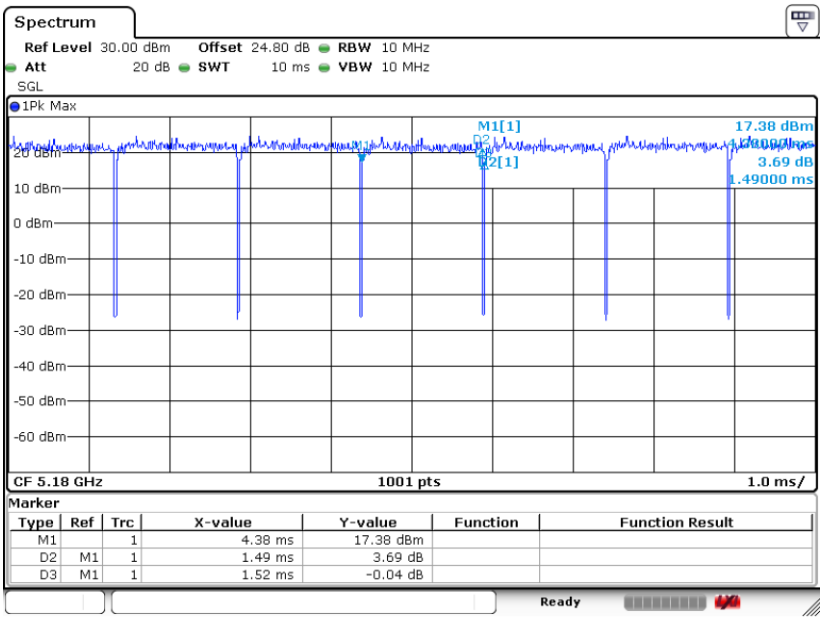
802.11ax HE20 Full RU



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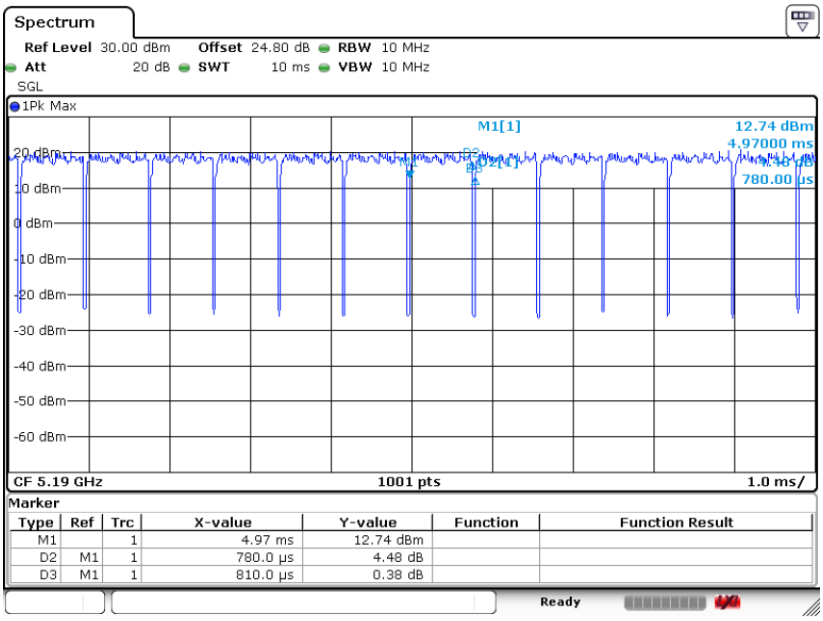
802.11ax HE40 Full RU



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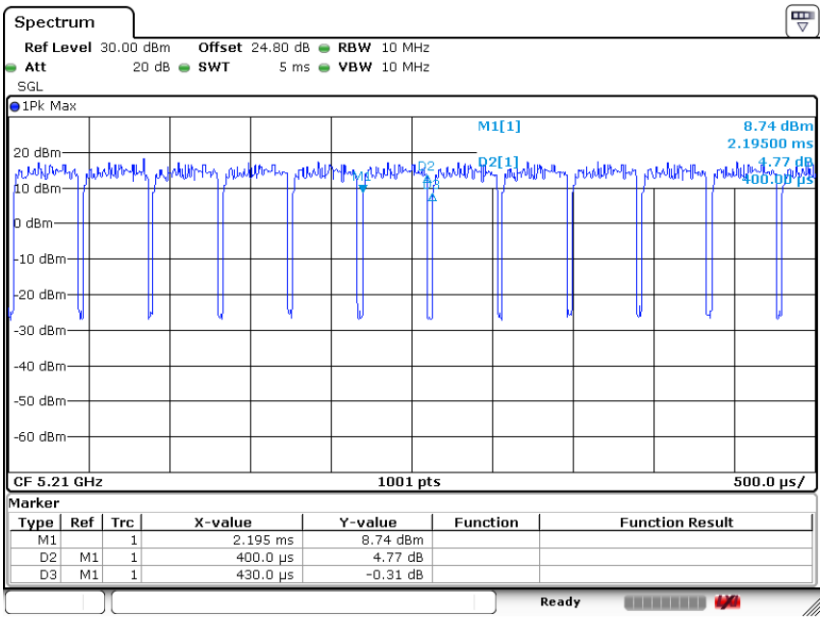

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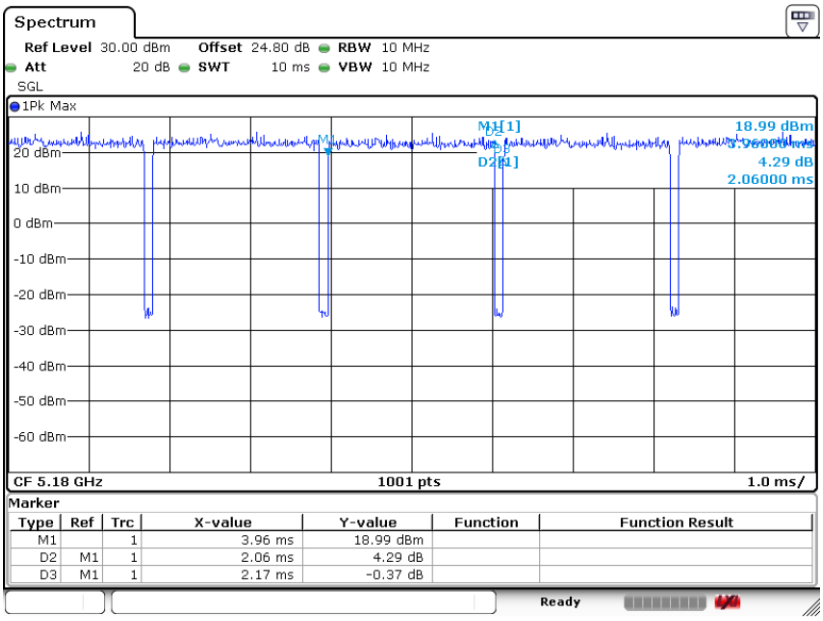

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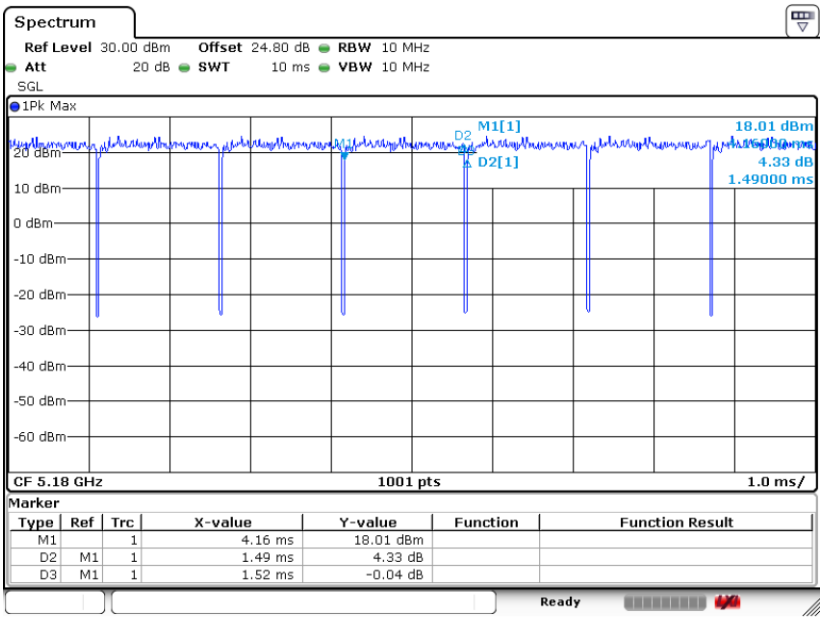

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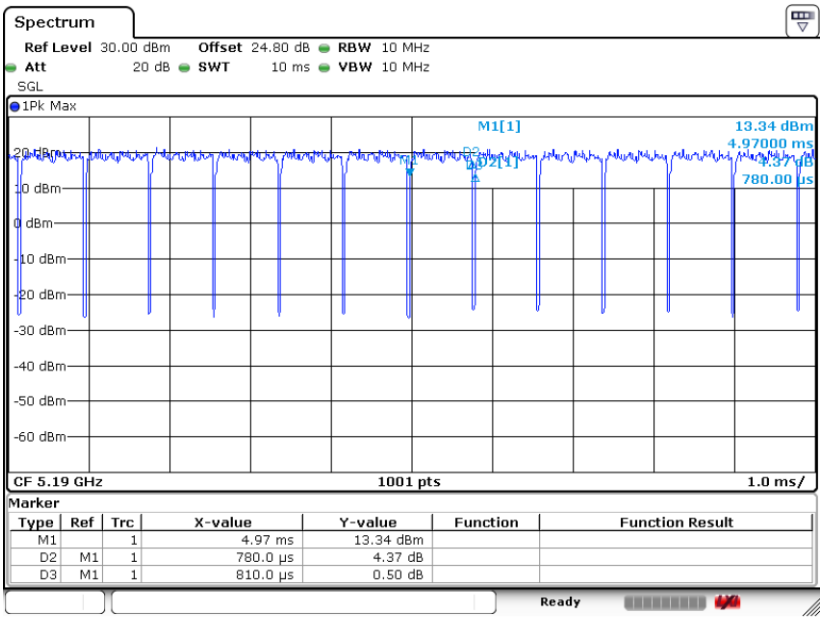

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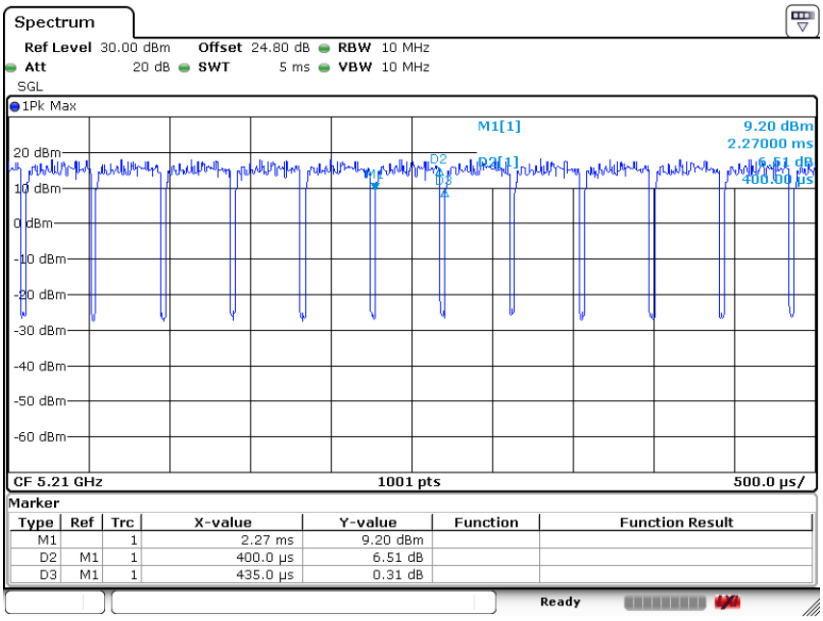

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