



FCC RADIO TEST REPORT

FCC ID : 2AG0Z-H38W
Equipment : Portal Go
Brand Name : FACEBOOK
Model Name : TN49KC
Applicant : Facebook Technologies, LLC
1 Hacker Way, Menlo Park, CA 94025, USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 04, 2021 and testing was started from May 05, 2021 and completed on Aug. 19, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR131119-01D	01	Initial issue of report	Jun. 08, 2021
FR131119-01D	02	Revise test data	Aug. 20, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	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 1.54 dB at 5458.720 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 14.41 dB at 0.501 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: Danny Lee

Report Producer: Tina Chuang

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WLAN <Main>: Monopole Antenna <Aux.>: PIFA Antenna Bluetooth: PIFA Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Main: 3.9 Aux.: 2.75
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Main: 3.28 Aux.: 3.01
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Main: 3.05 Aux.: 3.58

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH02-HY, CO05-HY, DFS02-HY

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH11-HY (TAF Code: 3786)
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory

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

FCC designation No.: TW1190 and TW3786

1.4 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) 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)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710		

Note:

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

2.2 Test Mode

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

MIMO Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + H-Pattern + Docking (Charging from AC Adapter)

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

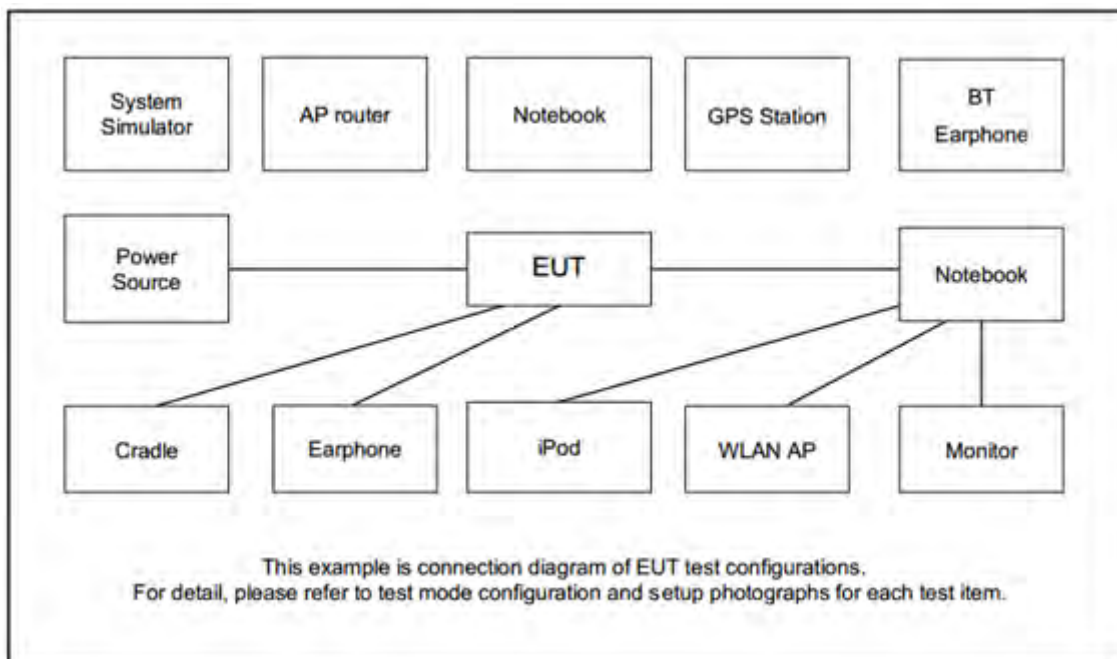
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m



2.5 EUT Operation Test Setup

The RF test items, utility "QRCT V4.0.00113" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

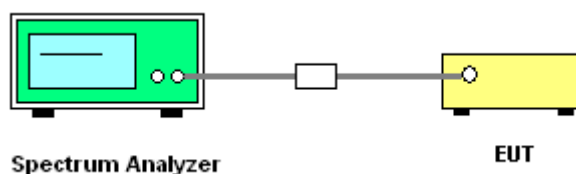
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

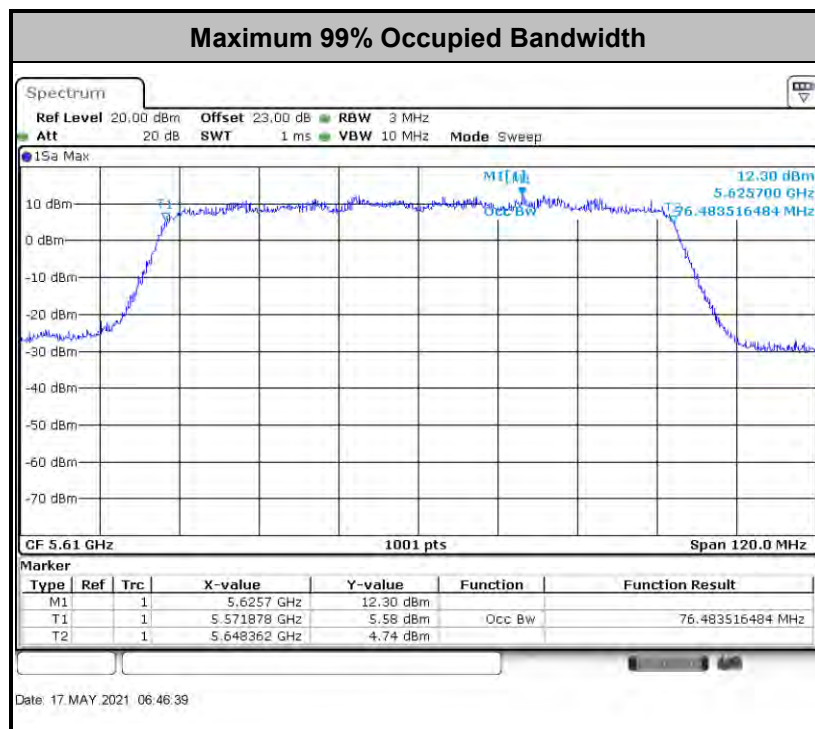
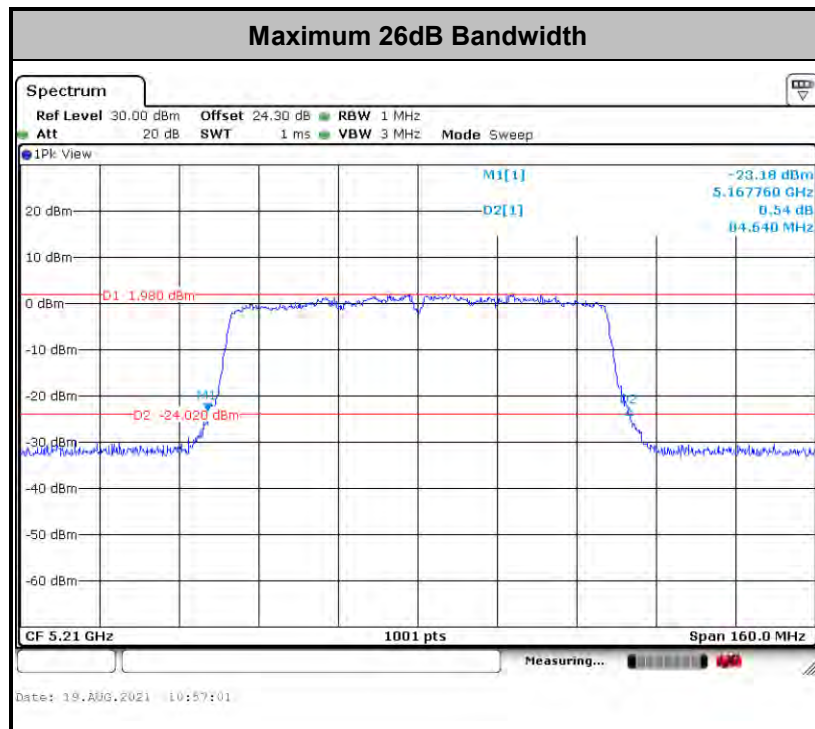
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

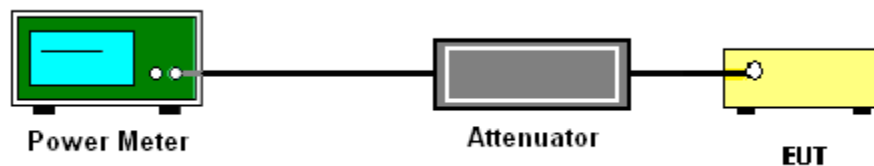
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

Method SA-3

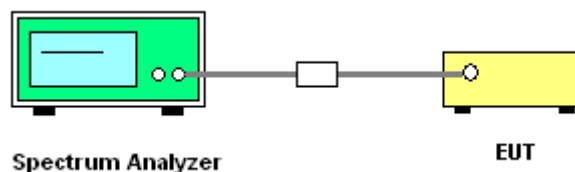
(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time $\leq$ (number of points in sweep) $\times$ T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

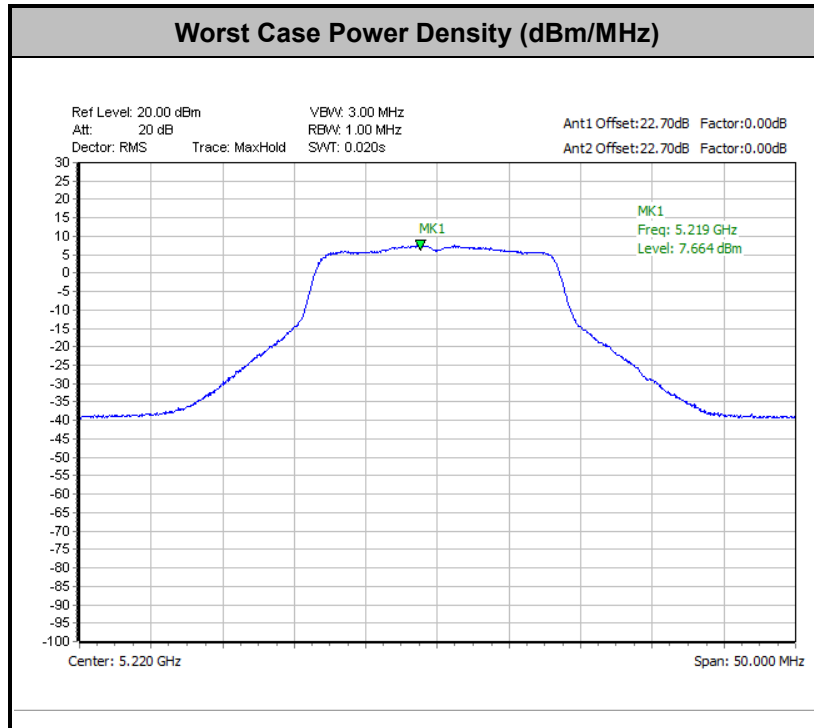
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (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.

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

EIRP (dBm)	Field Strength at 3m (dB μ V/m)
- 27	68.3

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

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

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

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

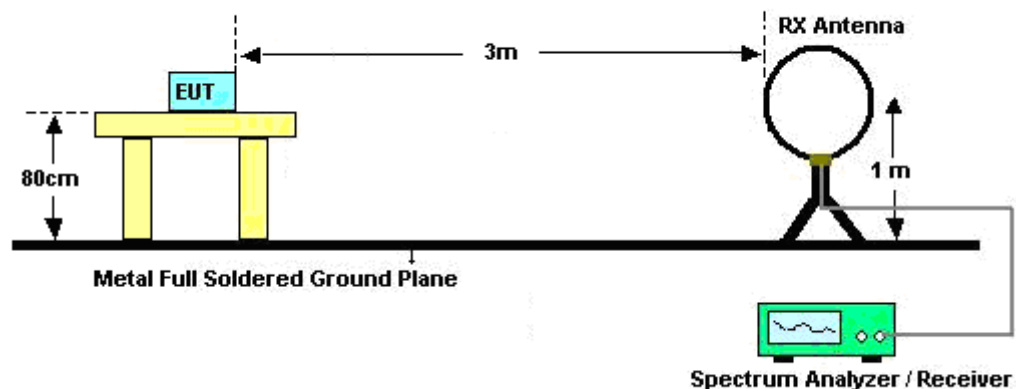
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

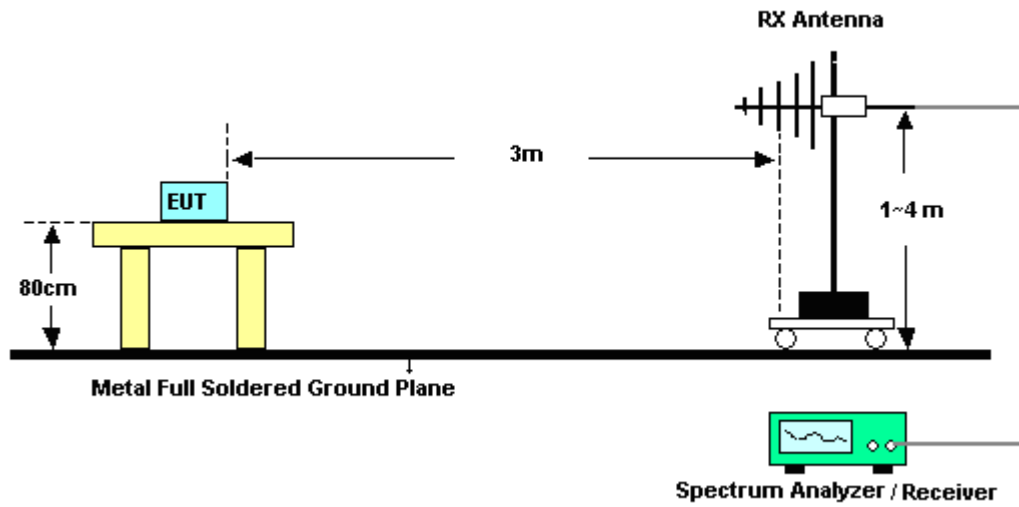
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

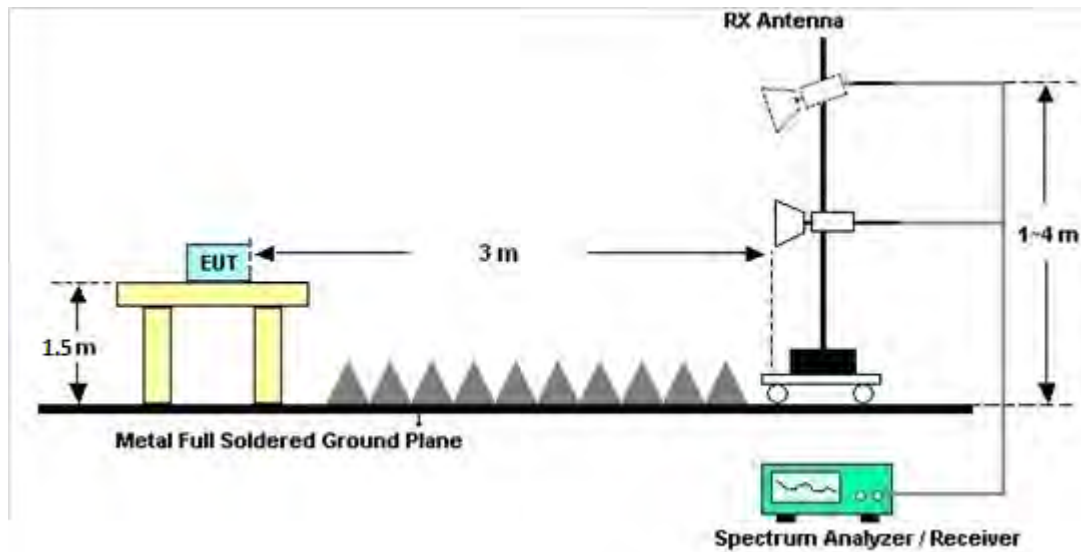
For radiated emissions below 30MHz



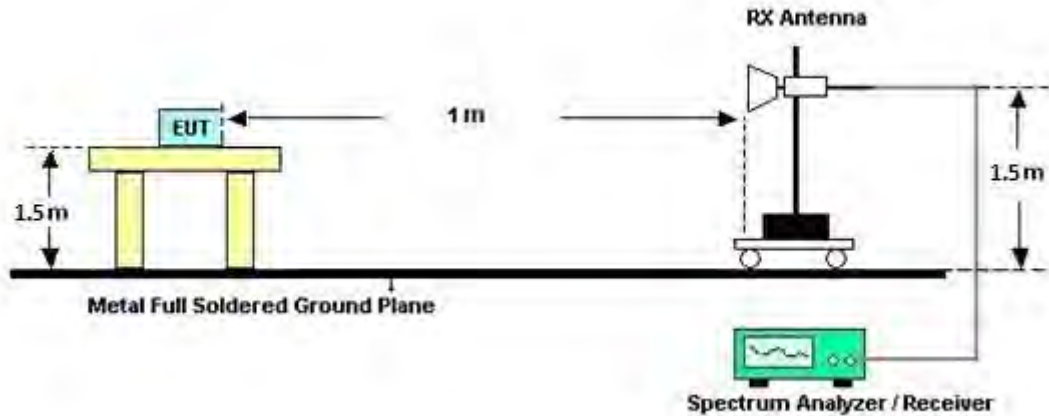
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at 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 Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

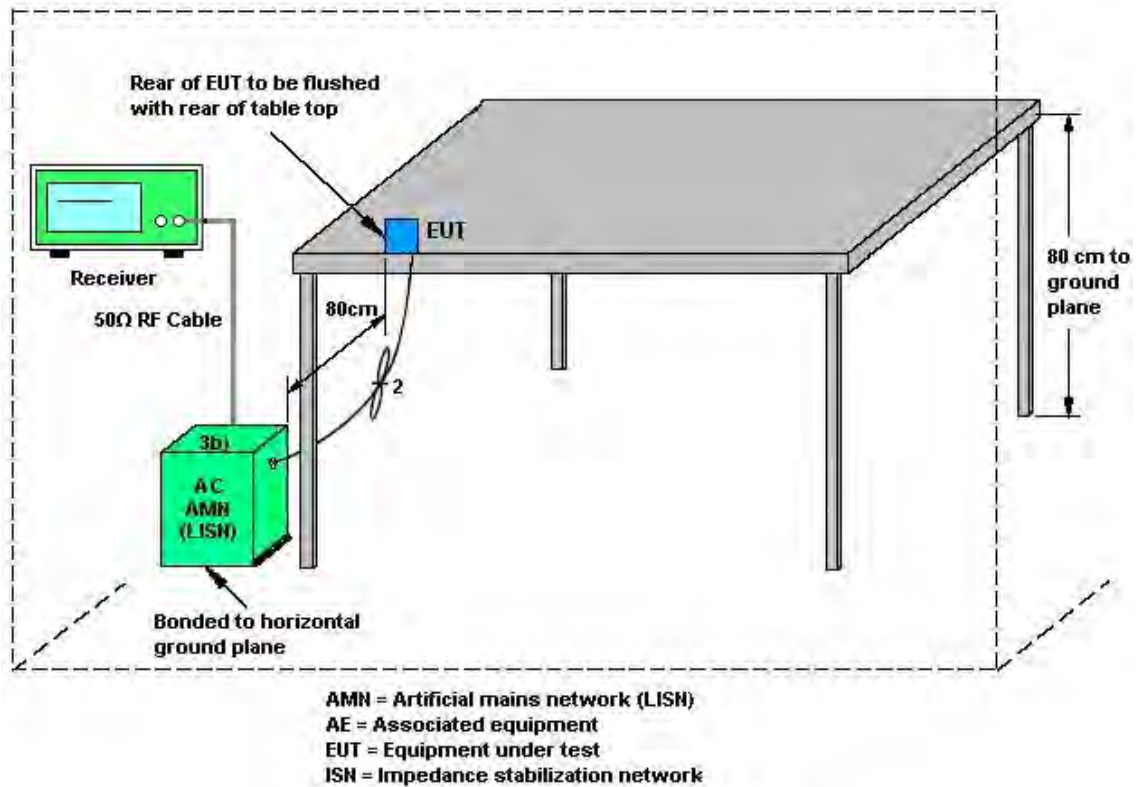
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 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

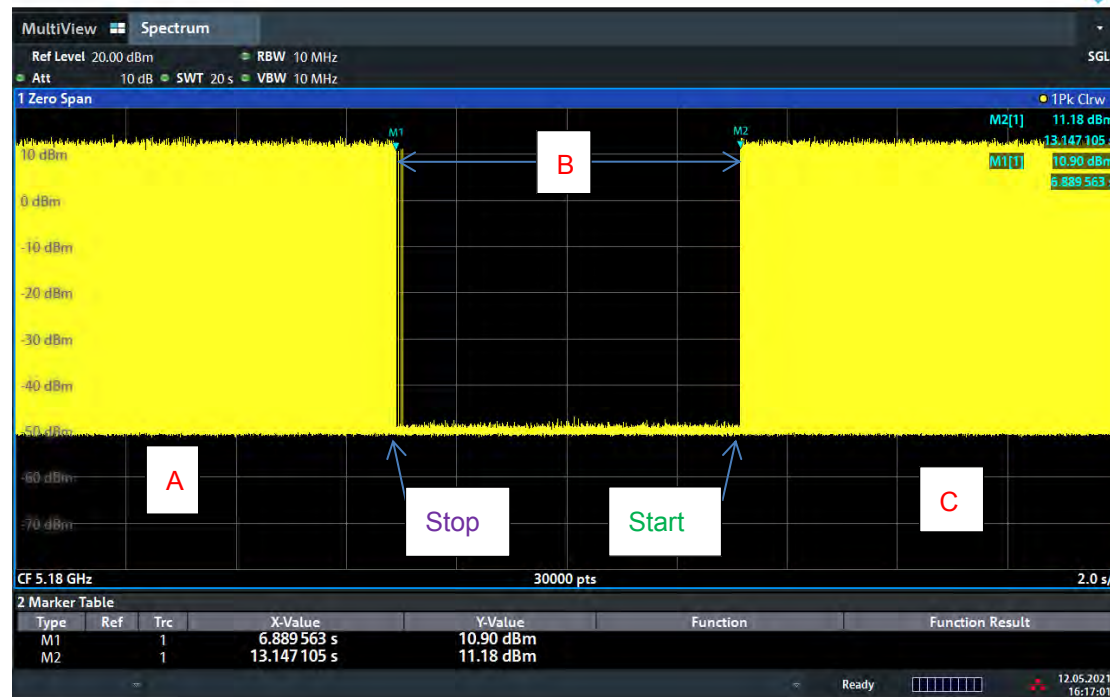
EUT is verified this characteristic during the function check of normal sample associated with an access point:

- A. Information start: make EUT supply information to the access point.
- B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

- C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

5180MHz


Note: The control / signalling information during the period B is precluded.

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 = $10 \log(\text{NANT}/\text{NSS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

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

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 GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

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

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

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

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	2.75	3.90	3.90	6.35	0.00	0.35
Band II	3.01	3.28	3.28	6.16	0.00	0.16
Band III	3.58	3.05	3.58	6.33	0.00	0.33

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

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



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	May 07, 2021~ Aug. 18, 2021	Jan. 03, 2022	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	May 07, 2021~ Aug. 18, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 6	1GHz ~ 18GHz	Nov. 03, 2020	May 07, 2021~ Aug. 18, 2021	Nov. 02, 2021	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00994	18GHz~40GHz	Nov. 19, 2020	May 07, 2021~ Aug. 18, 2021	Nov. 18, 2021	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	May 07, 2021~ Aug. 18, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Oct. 27, 2020	May 07, 2021~ Aug. 18, 2021	Oct. 26, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY532700 80	1GHz~26.5GHz	Nov. 12, 2020	May 07, 2021~ Aug. 18, 2021	Nov. 11, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 15, 2020	May 07, 2021~ Jun. 13, 2021	Jun. 14, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Jun. 22, 2021~ Aug. 18, 2021	Jun. 21, 2022	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz~44GHz	Oct. 23, 2020	May 07, 2021~ Aug. 18, 2021	Oct. 22, 2021	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	May 07, 2021~ Aug. 18, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 07, 2021~ Aug. 18, 2021	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-00105 3	N/A	N/A	May 07, 2021~ Aug. 18, 2021	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 11, 2021	May 07, 2021~ Aug. 18, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 11, 2021	May 07, 2021~ Aug. 18, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 11, 2021	May 07, 2021~ Aug. 18, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 11, 2021	May 07, 2021~ Aug. 18, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN11	1.53GHz Low Pass Filter	Sep. 14, 2020	May 07, 2021~ Aug. 18, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40SS	SN3	6.75GHz High Pass Filter	Sep. 15, 2020	May 07, 2021~ Aug. 18, 2021	Sep. 14, 2021	Radiation (03CH11-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	May 05, 2021~ Aug. 19, 2021	Mar. 02, 2022	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 16, 2020	May 05, 2021~ Aug. 19, 2021	Dec. 15, 2021	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	May 05, 2021~ Jun. 03, 2021	Jul. 21, 2021	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Nov. 13, 2020	Aug. 19, 2021	Nov. 12, 2021	Conducted (TH02-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	May 05, 2021~ Aug. 19, 2021	Mar. 16, 2022	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20, 2021	May 12, 2021~ May 13, 2021	Apr. 19, 2022	DFS (DFS02-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 05, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	May 05, 2021	Nov. 29, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	May 05, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 05, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	May 05, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	May 05, 2021	Dec. 30, 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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Luffy Lin/Junyu Jhou	Temperature:	21~25	°C
Test Date:	2021/5/5 ~2021/8/19	Relative Humidity:	51~54	%

Remark: For Conducted Test Items, Ant. 1 means Aux. Antenna and Ant. 2 means Main Antenna.

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	16.78	16.63	23.80	23.35	-		22.21		
11a	6Mbps	2	44	5220	16.68	16.68	24.35	24.55	-		22.22		
11a	6Mbps	2	48	5240	16.68	16.63	24.70	23.75	-		22.21		
VHT20	MCS0	2	36	5180	17.83	17.88	25.65	25.00	-		22.51		
VHT20	MCS0	2	44	5220	17.88	17.83	25.70	24.95	-		22.51		
VHT20	MCS0	2	48	5240	17.83	17.83	25.70	24.90	-		22.51		
VHT40	MCS0	2	38	5190	36.46	36.46	42.21	42.12	-		23.01		
VHT40	MCS0	2	46	5230	36.46	36.46	42.03	42.30	-		23.01		
VHT80	MCS0	2	42	5210	75.64	75.64	83.68	84.64	-		23.01		

TEST RESULTS DATA
Average Power Table

FCC Band I 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	36	5180	14.60	14.70	17.66	24.00		3.90		Pass	
11a	6Mbps	2	44	5220	14.80	14.50	17.66	24.00		3.90		Pass	
11a	6Mbps	2	48	5240	14.50	14.60	17.56	24.00		3.90		Pass	
HT20	MCS0	2	36	5180	14.10	14.20	17.16	24.00		3.90		Pass	
HT20	MCS0	2	44	5220	14.20	14.10	17.16	24.00		3.90		Pass	
HT20	MCS0	2	48	5240	14.20	14.10	17.16	24.00		3.90		Pass	
HT40	MCS0	2	38	5190	11.70	11.60	14.66	24.00		3.90		Pass	
HT40	MCS0	2	46	5230	14.70	14.60	17.66	24.00		3.90		Pass	
VHT20	MCS0	2	36	5180	14.20	14.30	17.26	24.00		3.90		Pass	
VHT20	MCS0	2	44	5220	14.30	14.20	17.26	24.00		3.90		Pass	
VHT20	MCS0	2	48	5240	14.30	14.20	17.26	24.00		3.90		Pass	
VHT40	MCS0	2	38	5190	12.20	12.10	15.16	24.00		3.90		Pass	
VHT40	MCS0	2	46	5230	14.80	14.70	17.76	24.00		3.90		Pass	
VHT80	MCS0	2	42	5210	10.90	10.80	13.86	24.00		3.90		Pass	

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180			7.66	10.65	6.35			Pass	
11a	6Mbps	2	44	5220			7.66	10.65	6.35			Pass	
11a	6Mbps	2	48	5240			7.25	10.65	6.35			Pass	
VHT20	MCS0	2	36	5180			6.75	10.65	6.35			Pass	
VHT20	MCS0	2	44	5220			6.91	10.65	6.35			Pass	
VHT20	MCS0	2	48	5240			6.99	10.65	6.35			Pass	
VHT40	MCS0	2	38	5190			1.75	10.65	6.35			Pass	
VHT40	MCS0	2	46	5230			4.63	10.65	6.35			Pass	
VHT80	MCS0	2	42	5210			-1.63	10.65	6.35			Pass	

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	16.68	16.63	24.35	23.15	23.21		29.21		23.98		
11a	6Mbps	2	60	5300	16.68	16.63	23.70	24.15	23.21		29.21		23.98		
11a	6Mbps	2	64	5320	16.78	16.68	24.10	24.35	23.22		29.22		23.98		
VHT20	MCS0	2	52	5260	17.88	17.78	25.80	24.70	23.50		29.50		23.98		
VHT20	MCS0	2	60	5300	17.88	17.83	25.80	25.10	23.51		29.51		23.98		
VHT20	MCS0	2	64	5320	17.88	17.78	26.75	24.45	23.50		29.50		23.98		
VHT40	MCS0	2	54	5270	36.46	36.46	41.76	42.39	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	36.46	36.46	42.12	42.12	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.76	75.64	84.32	83.84	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	14.60	14.50	17.56	23.98		3.28		26.99	Pass
11a	6Mbps	2	60	5300	14.40	14.40	17.41	23.98		3.28		26.99	Pass
11a	6Mbps	2	64	5320	14.40	14.30	17.36	23.98		3.28		26.99	Pass
HT20	MCS0	2	52	5260	14.30	14.40	17.36	23.98		3.28		26.99	Pass
HT20	MCS0	2	60	5300	14.20	14.10	17.16	23.98		3.28		26.99	Pass
HT20	MCS0	2	64	5320	14.20	14.20	17.21	23.98		3.28		26.99	Pass
HT40	MCS0	2	54	5270	14.70	14.70	17.71	23.98		3.28		26.99	Pass
HT40	MCS0	2	62	5310	14.10	14.10	17.11	23.98		3.28		26.99	Pass
VHT20	MCS0	2	52	5260	14.40	14.50	17.46	23.98		3.28		26.99	Pass
VHT20	MCS0	2	60	5300	14.30	14.20	17.26	23.98		3.28		26.99	Pass
VHT20	MCS0	2	64	5320	14.30	14.30	17.31	23.98		3.28		26.99	Pass
VHT40	MCS0	2	54	5270	14.80	14.80	17.81	23.98		3.28		26.99	Pass
VHT40	MCS0	2	62	5310	14.50	14.50	17.51	23.98		3.28		26.99	Pass
VHT80	MCS0	2	58	5290	13.30	13.10	16.21	23.98		3.28		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260			7.37	10.84	6.16			Pass	
11a	6Mbps	2	60	5300			7.25	10.84	6.16		Pass		
11a	6Mbps	2	64	5320			7.03	10.84	6.16		Pass		
VHT20	MCS0	2	52	5260			7.10	10.84	6.16		Pass		
VHT20	MCS0	2	60	5300			6.64	10.84	6.16		Pass		
VHT20	MCS0	2	64	5320			6.82	10.84	6.16		Pass		
VHT40	MCS0	2	54	5270			3.91	10.84	6.16		Pass		
VHT40	MCS0	2	62	5310			3.70	10.84	6.16		Pass		
VHT80	MCS0	2	58	5290			0.97	10.84	6.16		Pass		

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	100	5500	16.73	16.58	24.45	23.95	23.20		29.20		23.98		----	----
11a	6Mbps	2	116	5580	16.68	16.58	24.45	23.45	23.20		29.20		23.98		----	----
11a	6Mbps	2	140	5700	16.63	16.78	23.70	24.70	23.21		29.21		23.98		----	----
VHT20	MCS0	2	100	5500	17.88	17.78	25.90	25.05	23.50		29.50		23.98		----	----
VHT20	MCS0	2	116	5580	17.83	17.88	26.10	25.15	23.51		29.51		23.98		----	----
VHT20	MCS0	2	140	5700	17.83	17.88	25.40	25.90	23.51		29.51		23.98		----	----
VHT40	MCS0	2	102	5510	36.56	36.56	42.21	42.21	23.98		30.00		23.98		----	----
VHT40	MCS0	2	110	5550	36.56	36.56	42.39	42.21	23.98		30.00		23.98		----	----
VHT40	MCS0	2	134	5670	36.56	36.46	42.03	42.39	23.98		30.00		23.98		----	----
VHT80	MCS0	2	106	5530	76.48	76.24	83.84	84.32	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	76.48	76.24	84.32	84.16	23.98		30.00		23.98		----	----

Band III straddle channel MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	144	5720	13.39	13.34	16.90	16.65	22.25		28.25		23.21		2.75	3.1
VHT20	MCS0	2	144	5720	13.94	13.94	18.00	17.55	22.44		28.44		23.44		2.55	2.9
VHT40	MCS0	2	142	5710	33.18	33.28	36.06	36.15	23.98		30.00		23.98		2.55	2.55
VHT80	MCS0	2	138	5690	73.12	72.88	76.60	76.28	23.98		30.00		23.98		2.6	2.6

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	14.10	14.30	17.21	23.98		3.58		26.99	Pass
11a	6Mbps	2	116	5580	14.30	14.40	17.36	23.98		3.58		26.99	Pass
11a	6Mbps	2	140	5700	14.50	14.20	17.36	23.98		3.58		26.99	Pass
HT20	MCS0	2	100	5500	14.30	14.40	17.36	23.98		3.58		26.99	Pass
HT20	MCS0	2	116	5580	14.30	14.20	17.26	23.98		3.58		26.99	Pass
HT20	MCS0	2	140	5700	14.40	14.10	17.26	23.98		3.58		26.99	Pass
HT40	MCS0	2	102	5510	14.00	14.00	17.01	23.98		3.58		26.99	Pass
HT40	MCS0	2	110	5550	14.40	14.30	17.36	23.98		3.58		26.99	Pass
HT40	MCS0	2	134	5670	14.50	14.20	17.36	23.98		3.58		26.99	Pass
VHT20	MCS0	2	100	5500	14.40	14.50	17.46	23.98		3.58		26.99	Pass
VHT20	MCS0	2	116	5580	14.40	14.30	17.36	23.98		3.58		26.99	Pass
VHT20	MCS0	2	140	5700	14.50	14.20	17.36	23.98		3.58		26.99	Pass
VHT40	MCS0	2	102	5510	14.00	14.10	17.06	23.98		3.58		26.99	Pass
VHT40	MCS0	2	110	5550	14.50	14.40	17.46	23.98		3.58		26.99	Pass
VHT40	MCS0	2	134	5670	14.60	14.30	17.46	23.98		3.58		26.99	Pass
VHT80	MCS0	2	106	5530	11.20	11.10	14.16	23.98		3.58		26.99	Pass
VHT80	MCS0	2	122	5610	14.70	14.50	17.61	23.98		3.58		26.99	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720	14.40	14.20	17.31	23.21		3.58		26.99	Pass
HT20	MCS0	2	144	5720	14.40	14.50	17.46	23.98		3.58		26.99	Pass
HT40	MCS0	2	142	5710	14.60	14.10	17.37	23.98		3.58		26.99	Pass
VHT20	MCS0	2	144	5720	14.50	14.60	17.56	23.44		3.58		26.99	Pass
VHT40	MCS0	2	142	5710	14.70	14.20	17.47	23.98		3.58		26.99	Pass
VHT80	MCS0	2	138	5690	14.70	14.50	17.61	23.98		3.58		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500			7.01	10.67	6.33			Pass	
11a	6Mbps	2	116	5580			6.84	10.67	6.33			Pass	
11a	6Mbps	2	140	5700			7.06	10.67	6.33			Pass	
VHT20	MCS0	2	100	5500			7.08	10.67	6.33			Pass	
VHT20	MCS0	2	116	5580			7.04	10.67	6.33			Pass	
VHT20	MCS0	2	140	5700			7.08	10.67	6.33			Pass	
VHT40	MCS0	2	102	5510			2.98	10.67	6.33			Pass	
VHT40	MCS0	2	110	5550			3.44	10.67	6.33			Pass	
VHT40	MCS0	2	134	5670			3.35	10.67	6.33			Pass	
VHT80	MCS0	2	106	5530			-2.03	10.67	6.33			Pass	
VHT80	MCS0	2	122	5610			1.54	10.67	6.33			Pass	

Band III straddle channel MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720				6.95	10.67	6.33			Pass
VHT20	MCS0	2	144	5720				7.22	10.67	6.33			Pass
VHT40	MCS0	2	142	5710				3.68	10.67	6.33			Pass
VHT80	MCS0	2	138	5690				1.73	10.67	6.33			Pass



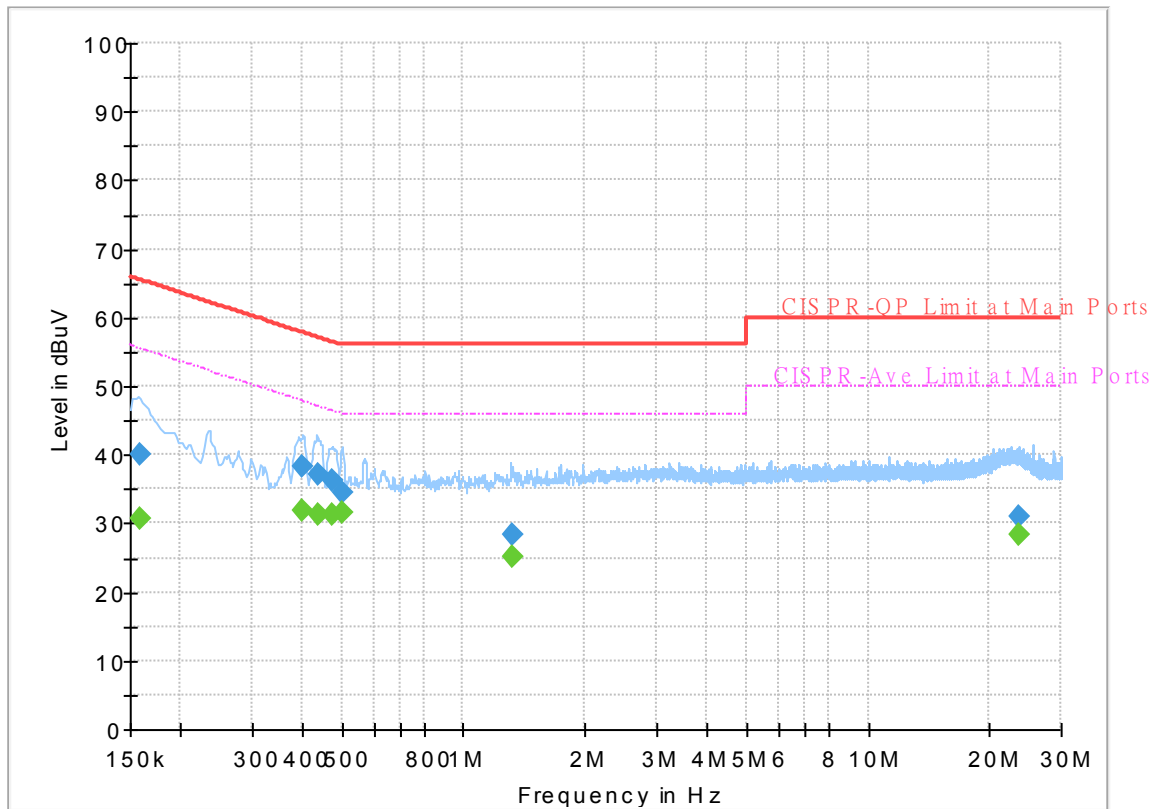
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee and Howard Huang	Temperature :	23~26°C
		Relative Humidity :	40~50%

EUT Information

Report NO : 131119-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



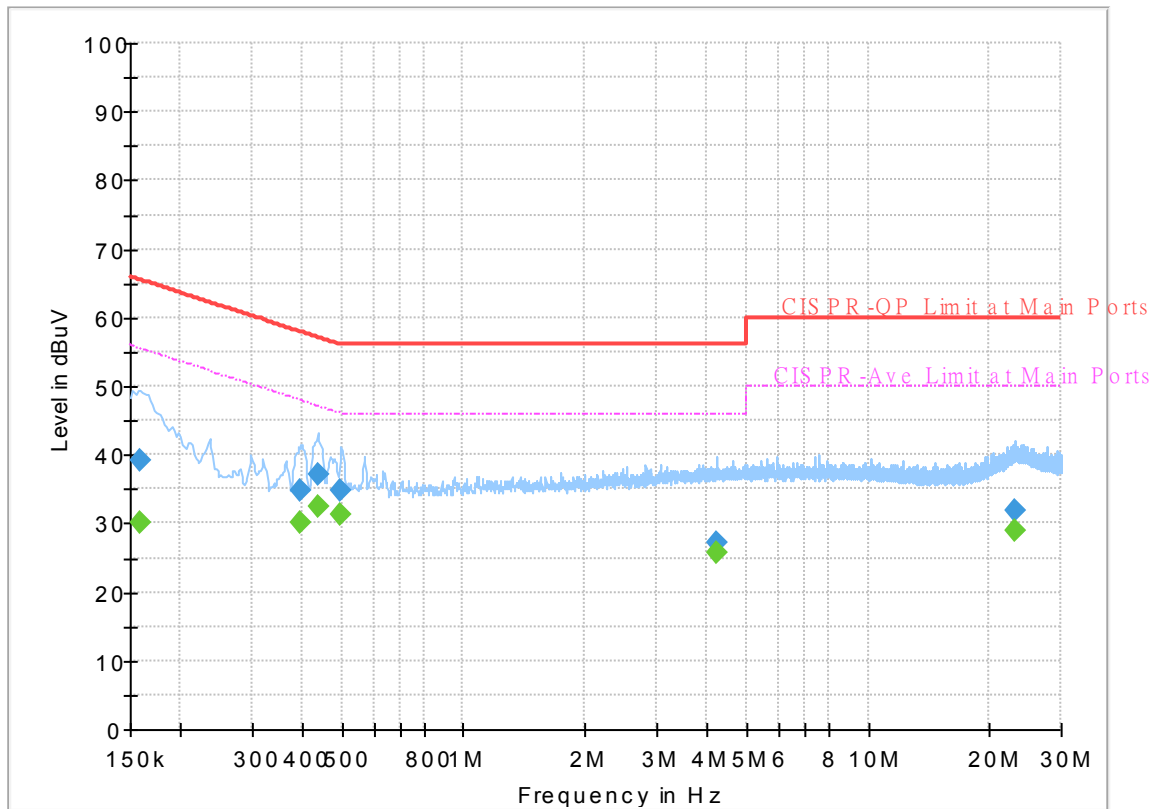
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	30.74	55.52	24.78	L1	OFF	19.5
0.159000	39.99	---	65.52	25.53	L1	OFF	19.5
0.399750	---	31.80	47.86	16.06	L1	OFF	19.5
0.399750	38.28	---	57.86	19.58	L1	OFF	19.5
0.438000	---	31.40	47.10	15.70	L1	OFF	19.6
0.438000	37.15	---	57.10	19.95	L1	OFF	19.6
0.471750	---	31.26	46.48	15.22	L1	OFF	19.6
0.471750	36.14	---	56.48	20.34	L1	OFF	19.6
0.501000	---	31.59	46.00	14.41	L1	OFF	19.7
0.501000	34.64	---	56.00	21.36	L1	OFF	19.7
1.322250	---	25.02	46.00	20.98	L1	OFF	20.0
1.322250	28.36	---	56.00	27.64	L1	OFF	20.0
23.547750	---	28.50	50.00	21.50	L1	OFF	20.5
23.547750	31.11	---	60.00	28.89	L1	OFF	20.5

EUT Information

Report NO : 131119-01
 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)
0.159000	---	30.18	55.52	25.34	N	OFF	19.5
0.159000	39.15	---	65.52	26.37	N	OFF	19.5
0.395250	---	30.19	47.95	17.76	N	OFF	19.6
0.395250	34.76	---	57.95	23.19	N	OFF	19.6
0.435750	---	32.33	47.14	14.81	N	OFF	19.6
0.435750	37.05	---	57.14	20.09	N	OFF	19.6
0.498750	---	31.15	46.02	14.87	N	OFF	19.7
0.498750	34.67	---	56.02	21.35	N	OFF	19.7
4.218000	---	25.60	46.00	20.40	N	OFF	19.9
4.218000	27.32	---	56.00	28.68	N	OFF	19.9
23.037000	---	29.01	50.00	20.99	N	OFF	20.7
23.037000	31.79	---	60.00	28.21	N	OFF	20.7



Appendix C. Radiated Spurious Emission

Test Engineer :	Harvey Guo, Bill Chang , Fu Chen, and Troye Hsieh	Temperature :	18.3~25.7°C
		Relative Humidity :	58.2~70.8%

Remark: For Radiated Spurious Emission Test Items, Ant. 1 means Aux. Antenna and Ant. 2 means Main Antenna.

Band 1 - 5150~5250MHz

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.5	56.15	-17.85	74	46.78	31.8	10.37	32.8	305	284	P	H
		5149.5	47.32	-6.68	54	37.95	31.8	10.37	32.8	305	284	A	H
	*	5180	115.15	-	-	105.93	31.62	10.41	32.81	305	284	P	H
	*	5180	107.47	-	-	98.25	31.62	10.41	32.81	305	284	A	H
													H
													H
		5149.5	60.84	-13.16	74	51.47	31.8	10.37	32.8	220	313	P	V
		5149.5	51.21	-2.79	54	41.84	31.8	10.37	32.8	220	313	A	V
	*	5180	118.37	-	-	109.15	31.62	10.41	32.81	220	313	P	V
	*	5180	110.93	-	-	101.71	31.62	10.41	32.81	220	313	A	V
													V
													V
802.11a CH 44 5220MHz		5140.4	52.72	-21.28	74	43.33	31.82	10.36	32.79	302	286	P	H
		5148.98	42.2	-11.8	54	32.83	31.8	10.37	32.8	302	286	A	H
	*	5220	114.31	-	-	105.3	31.38	10.46	32.83	302	286	P	H
	*	5220	107.42	-	-	98.41	31.38	10.46	32.83	302	286	A	H
		5436.96	50.19	-23.81	74	40.93	31.55	10.66	32.95	302	286	P	H
		5452.56	40.7	-13.3	54	31.39	31.61	10.66	32.96	302	286	A	H
		5146.12	52.69	-21.31	74	43.31	31.81	10.37	32.8	221	314	P	V
		5149.24	43.75	-10.25	54	34.38	31.8	10.37	32.8	221	314	A	V
	*	5220	118.66	-	-	109.65	31.38	10.46	32.83	221	314	P	V
	*	5220	111.56	-	-	102.55	31.38	10.46	32.83	221	314	A	V
		5375.28	51.41	-22.59	74	42.41	31.3	10.62	32.92	221	314	P	V
		5453.76	42.76	-11.24	54	33.45	31.61	10.66	32.96	221	314	A	V



802.11a CH 48 5240MHz		5032.24	51.03	-22.97	74	42	31.56	10.21	32.74	322	336	P	H
		5091.78	41.11	-12.89	54	31.72	31.87	10.29	32.77	322	336	A	H
	*	5240	111.3	-	-	102.4	31.26	10.48	32.84	322	336	P	H
	*	5240	104.26	-	-	95.36	31.26	10.48	32.84	322	336	A	H
		5445.12	49.78	-24.22	74	40.49	31.58	10.66	32.95	322	336	P	H
		5459.52	40.07	-13.93	54	30.75	31.62	10.66	32.96	322	336	A	H
		5018.2	51.55	-22.45	74	42.64	31.45	10.19	32.73	194	344	P	V
		5150	41.74	-12.26	54	32.37	31.8	10.37	32.8	194	344	A	V
	*	5240	118.35	-	-	109.45	31.26	10.48	32.84	194	344	P	V
	*	5240	110.63	-	-	101.73	31.26	10.48	32.84	194	344	A	V
		5376.24	51.58	-22.42	74	42.57	31.3	10.63	32.92	194	344	P	V
		5376	41.29	-12.71	54	32.29	31.3	10.62	32.92	194	344	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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 36 5180MHz		10360	46.12	-22.08	68.2	56.49	39.68	16.67	66.72	100	0	P	H
		15540	46.94	-27.06	74	53.23	38.08	21.76	66.13	100	0	P	H
		17945	56.95	-17.05	74	52.39	46.3	23.44	65.18	100	0	P	H
		17945	45.8	-8.2	54	41.24	46.3	23.44	65.18	100	0	A	H
		10360	46.67	-21.53	68.2	57.04	39.68	16.67	66.72	100	0	P	V
		15540	47.32	-26.68	74	53.61	38.08	21.76	66.13	100	0	P	V
		17934	57.13	-16.87	74	52.82	46.08	23.43	65.2	100	0	P	V
		17934	46.73	-7.27	54	42.42	46.08	23.43	65.2	100	0	A	V
802.11a CH 44 5220MHz		10440	47.21	-20.99	68.2	57.32	39.88	16.75	66.74	100	0	P	H
		15660	48.97	-25.03	74	55.69	37.84	21.72	66.28	100	0	P	H
		17934	57.1	-16.9	74	52.79	46.08	23.43	65.2	100	0	P	H
		17934	46.19	-7.81	54	41.88	46.08	23.43	65.2	100	0	A	H
		10440	46.47	-21.73	68.2	56.58	39.88	16.75	66.74	100	0	P	V
		15660	47.85	-26.15	74	54.57	37.84	21.72	66.28	100	0	P	V
		17945	57.04	-16.96	74	52.48	46.3	23.44	65.18	100	0	P	V
		17945	46.89	-7.11	54	42.33	46.3	23.44	65.18	100	0	A	V
802.11a CH 48 5240MHz		10480	46.67	-21.53	68.2	56.68	39.96	16.78	66.75	100	0	P	H
		15720	47.69	-26.31	74	54.64	37.7	21.71	66.36	100	0	P	H
		17945	57.43	-16.57	74	52.87	46.3	23.44	65.18	100	0	P	H
		17945	46.51	-7.49	54	41.95	46.3	23.44	65.18	100	0	A	H
		10480	46.8	-21.4	68.2	56.81	39.96	16.78	66.75	100	0	P	V
		15720	47.55	-26.45	74	54.5	37.7	21.71	66.36	100	0	P	V
		17967	56.39	-17.61	74	51.34	46.74	23.46	65.15	100	0	P	V
		17967	47.38	-6.62	54	42.33	46.74	23.46	65.15	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (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)
802.11ac VHT20 CH 36 5180MHz		5149.5	59.31	-14.69	74	49.94	31.8	10.37	32.8	292	283	P	H
		5150	49.68	-4.32	54	40.31	31.8	10.37	32.8	292	283	A	H
	*	5180	113.67	-	-	104.45	31.62	10.41	32.81	292	283	P	H
	*	5180	105.43	-	-	96.21	31.62	10.41	32.81	292	283	A	H
													H
													H
		5150	60.17	-13.83	74	50.8	31.8	10.37	32.8	100	303	P	V
		5150	51.41	-2.59	54	42.04	31.8	10.37	32.8	100	303	A	V
	*	5180	116.11	-	-	106.89	31.62	10.41	32.81	100	303	P	V
	*	5180	107.92	-	-	98.7	31.62	10.41	32.81	100	303	A	V
													V
													V
802.11ac VHT20 CH 44 5220MHz		5098.28	52.12	-21.88	74	42.7	31.89	10.3	32.77	317	283	P	H
		5150	42.33	-11.67	54	32.96	31.8	10.37	32.8	317	283	A	H
	*	5220	115.75	-	-	106.74	31.38	10.46	32.83	317	283	P	H
	*	5220	107.56	-	-	98.55	31.38	10.46	32.83	317	283	A	H
		5401.68	49.51	-24.49	74	40.38	31.41	10.65	32.93	317	283	P	H
		5453.28	40.29	-13.71	54	30.98	31.61	10.66	32.96	317	283	A	H
		5146.64	52.71	-21.29	74	43.33	31.81	10.37	32.8	237	313	P	V
		5150	43.99	-10.01	54	34.62	31.8	10.37	32.8	237	313	A	V
	*	5220	117.89	-	-	108.88	31.38	10.46	32.83	237	313	P	V
	*	5220	110	-	-	100.99	31.38	10.46	32.83	237	313	A	V
		5437.44	50.83	-23.17	74	41.57	31.55	10.66	32.95	237	313	P	V
		5451.6	43.2	-10.8	54	33.89	31.6	10.66	32.95	237	313	A	V



802.11ac VHT20 CH 48 5240MHz		5095.16	51.09	-22.91	74	41.68	31.88	10.3	32.77	301	303	P	H
		5145.6	41.16	-12.84	54	31.78	31.81	10.37	32.8	301	303	A	H
	*	5240	114.09	-	-	105.19	31.26	10.48	32.84	301	303	P	H
	*	5240	106.18	-	-	97.28	31.26	10.48	32.84	301	303	A	H
		5459.52	49.68	-24.32	74	40.36	31.62	10.66	32.96	301	303	P	H
		5452.56	40	-14	54	30.69	31.61	10.66	32.96	301	303	A	H
		5147.94	52.02	-21.98	74	42.65	31.8	10.37	32.8	229	317	P	V
		5149.76	42.13	-11.87	54	32.76	31.8	10.37	32.8	229	317	A	V
	*	5240	118.18	-	-	109.28	31.26	10.48	32.84	229	317	P	V
	*	5240	110.69	-	-	101.79	31.26	10.48	32.84	229	317	A	V
		5454	50.83	-23.17	74	41.52	31.61	10.66	32.96	229	317	P	V
		5351.76	41.82	-12.18	54	32.91	31.21	10.6	32.9	229	317	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (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)
802.11ac VHT20 CH 36 5180MHz		10360	46.56	-21.64	68.2	56.93	39.68	16.67	66.72	100	0	P	H
		15540	46.82	-27.18	74	53.11	38.08	21.76	66.13	100	0	P	H
		17945	57.41	-16.59	74	52.85	46.3	23.44	65.18	100	0	P	H
		17945	47.02	-6.98	54	42.46	46.3	23.44	65.18	100	0	A	H
		10360	47.1	-21.1	68.2	57.47	39.68	16.67	66.72	100	0	P	V
		15540	46.55	-27.45	74	52.84	38.08	21.76	66.13	100	0	P	V
		17945	57.81	-16.19	74	53.25	46.3	23.44	65.18	100	0	v	V
		17945	47.65	-6.35	54	43.09	46.3	23.44	65.18	100	0	P	V
802.11ac VHT20 CH 44 5220MHz		10440	45.35	-22.85	68.2	55.46	39.88	16.75	66.74	100	0	P	H
		15660	47.66	-26.34	74	54.38	37.84	21.72	66.28	100	0	P	H
		17923	56.76	-17.24	74	52.7	45.86	23.42	65.22	100	0	P	H
		17923	46.05	-7.95	54	41.99	45.86	23.42	65.22	100	0	A	H
		10440	46.31	-21.89	68.2	56.42	39.88	16.75	66.74	100	0	P	V
		15660	47.35	-26.65	74	54.07	37.84	21.72	66.28	100	0	P	V
		17945	57.17	-16.83	74	52.61	46.3	23.44	65.18	100	0	P	V
		17945	46.86	-7.14	54	42.3	46.3	23.44	65.18	100	0	A	V
802.11ac VHT20 CH 48 5240MHz		10480	45.98	-22.22	68.2	55.99	39.96	16.78	66.75	100	0	P	H
		15720	47.2	-26.8	74	54.15	37.7	21.71	66.36	100	0	P	H
		17923	56.67	-17.33	74	52.61	45.86	23.42	65.22	100	0	P	H
		17923	46.05	-7.95	54	41.99	45.86	23.42	65.22	100	0	A	H
		10480	46.28	-21.92	68.2	56.29	39.96	16.78	66.75	100	0	P	V
		15720	47.63	-26.37	74	54.58	37.7	21.71	66.36	100	0	P	V
		17934	56.29	-17.71	74	51.98	46.08	23.43	65.2	100	0	P	V
		17934	46.63	-7.37	54	42.32	46.08	23.43	65.2	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (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)
802.11ac VHT40 CH 38 5190MHz		5148.72	53.7	-20.3	74	44.33	31.8	10.37	32.8	211	290	P	H
		5150	45.67	-8.33	54	36.3	31.8	10.37	32.8	211	290	A	H
	*	5190	103.46	-	-	94.29	31.56	10.43	32.82	211	290	P	H
	*	5190	95.82	-	-	86.65	31.56	10.43	32.82	211	290	A	H
		5370.12	49.32	-24.68	74	40.33	31.28	10.62	32.91	211	290	P	H
		5413.8	42.31	-11.69	54	33.14	31.46	10.65	32.94	211	290	A	H
		5150	58.34	-15.66	74	48.97	31.8	10.37	32.8	373	349	P	V
		5150	49.92	-4.08	54	40.55	31.8	10.37	32.8	373	349	A	V
	*	5190	109.07	-	-	99.9	31.56	10.43	32.82	373	349	P	V
	*	5190	101.2	-	-	92.03	31.56	10.43	32.82	373	349	A	V
		5414.36	53.7	-20.3	74	44.53	31.46	10.65	32.94	373	349	P	V
		5412.68	45.11	-8.89	54	35.94	31.45	10.65	32.93	373	349	A	V
802.11ac VHT40 CH 46 5230MHz		5133.9	51.97	-22.03	74	42.58	31.83	10.35	32.79	300	280	P	H
		5144.82	44.83	-9.17	54	35.45	31.81	10.37	32.8	300	280	A	H
	*	5230	108.58	-	-	99.63	31.32	10.47	32.84	300	280	P	H
	*	5230	101.09	-	-	92.14	31.32	10.47	32.84	300	280	A	H
		5452.44	51.14	-22.86	74	41.84	31.6	10.66	32.96	300	280	P	H
		5451.88	43.73	-10.27	54	34.42	31.6	10.66	32.95	300	280	A	H
		5144.82	53.05	-20.95	74	43.67	31.81	10.37	32.8	200	313	P	V
		5149.76	45.77	-8.23	54	36.4	31.8	10.37	32.8	200	313	A	V
	*	5230	111.84	-	-	102.89	31.32	10.47	32.84	200	313	P	V
	*	5230	103.98	-	-	95.03	31.32	10.47	32.84	200	313	A	V
		5452.72	57.98	-16.02	74	48.67	31.61	10.66	32.96	200	313	P	V
		5453	51.53	-2.47	54	42.22	31.61	10.66	32.96	200	313	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (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)
802.11ac VHT40 CH 38 5190MHz		10380	46.19	-22.01	68.2	56.49	39.74	16.69	66.73	100	0	P	H
		15570	46.73	-27.27	74	53.16	37.99	21.75	66.17	100	0	P	H
		17945	56.7	-17.3	74	52.14	46.3	23.44	65.18	100	0	P	H
		17945	47.43	-6.57	54	42.87	46.3	23.44	65.18	100	0	A	H
		10380	46.46	-21.74	68.2	56.76	39.74	16.69	66.73	100	0	P	V
		15570	48.48	-25.52	74	54.91	37.99	21.75	66.17	100	0	P	V
		17945	56.42	-17.58	74	51.86	46.3	23.44	65.18	100	0	P	V
		17945	47.48	-6.52	54	42.92	46.3	23.44	65.18	100	0	A	V
802.11ac VHT40 CH 46 5230MHz		10460	46.16	-22.04	68.2	56.22	39.92	16.76	66.74	100	0	P	H
		15690	47.78	-26.22	74	54.57	37.81	21.72	66.32	100	0	P	H
		17945	57.49	-16.51	74	52.93	46.3	23.44	65.18	100	0	P	H
		17945	47.35	-6.65	54	42.79	46.3	23.44	65.18	100	0	A	H
		10460	46.44	-21.76	68.2	56.5	39.92	16.76	66.74	100	0	P	V
		15690	47.13	-26.87	74	53.92	37.81	21.72	66.32	100	0	P	V
		17934	56.22	-17.78	74	51.91	46.08	23.43	65.2	100	0	P	V
		17934	47.21	-6.79	54	42.9	46.08	23.43	65.2	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 42 5210MHz		5142.12	52.78	-21.22	74	43.39	31.82	10.36	32.79	311	283	P	H
		5142.12	45.8	-8.2	54	36.41	31.82	10.36	32.79	311	283	A	H
	*	5210	99.16	-	-	90.1	31.44	10.45	32.83	311	283	P	H
	*	5210	91.09	-	-	82.03	31.44	10.45	32.83	311	283	A	H
		5392.66	49.12	-24.88	74	40.03	31.37	10.64	32.92	311	283	P	H
		5453.76	40.92	-13.08	54	31.61	31.61	10.66	32.96	311	283	A	H
		5146.2	56.97	-17.03	74	47.59	31.81	10.37	32.8	234	306	P	V
		5147.22	49.95	-4.05	54	40.57	31.81	10.37	32.8	234	306	A	V
	*	5210	104.24	-	-	95.18	31.44	10.45	32.83	234	306	P	V
	*	5210	96.59	-	-	87.53	31.44	10.45	32.83	234	306	A	V
		5448.82	49.72	-24.28	74	40.41	31.6	10.66	32.95	234	306	P	V
		5443.62	41.28	-12.72	54	32	31.57	10.66	32.95	234	306	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 42 5210MHz		10420	47.62	-20.58	68.2	57.79	39.84	16.73	66.74	100	0	P	H
		15630	48.55	-25.45	74	55.19	37.87	21.73	66.24	100	0	P	H
		17934	57.53	-16.47	74	53.22	46.08	23.43	65.2	100	0	P	H
		17934	46.89	-7.11	54	42.58	46.08	23.43	65.2	100	0	A	H
		10420	47.2	-21	68.2	57.37	39.84	16.73	66.74	100	0	P	V
		15630	49.45	-24.55	74	56.09	37.87	21.73	66.24	100	0	P	V
		17956	47.7	-26.3	74	42.9	46.52	23.45	65.17	100	0	P	V
		17956	57.26	-16.74	74	52.46	46.52	23.45	65.17	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

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 52 5260MHz		5103.02	50.74	-23.26	74	41.31	31.89	10.31	32.77	297	286	P	H
		5104.72	41.21	-12.79	54	31.78	31.89	10.31	32.77	297	286	A	H
	*	5260	114.01	-	-	105.17	31.2	10.5	32.86	297	286	P	H
	*	5260	106.48	-	-	97.64	31.2	10.5	32.86	297	286	A	H
		5428.32	50.35	-23.65	74	41.13	31.51	10.65	32.94	297	286	P	H
		5350.08	40.37	-13.63	54	31.47	31.2	10.6	32.9	297	286	A	H
		5052.36	50.95	-23.05	74	41.75	31.71	10.24	32.75	204	313	P	V
		5145.52	41.53	-12.47	54	32.15	31.81	10.37	32.8	204	313	A	V
	*	5260	118.46	-	-	109.62	31.2	10.5	32.86	204	313	P	V
	*	5260	110.83	-	-	101.99	31.2	10.5	32.86	204	313	A	V
		5361.84	51	-23	74	42.05	31.25	10.61	32.91	204	313	P	V
		5350.08	42.82	-11.18	54	33.92	31.2	10.6	32.9	204	313	A	V
802.11a CH 60 5300MHz		5091.8	51.32	-22.68	74	41.93	31.87	10.29	32.77	310	291	P	H
		5094.52	41.11	-12.89	54	31.7	31.88	10.3	32.77	310	291	A	H
	*	5300	113.68	-	-	104.81	31.2	10.55	32.88	310	291	P	H
	*	5300	106.19	-	-	97.32	31.2	10.55	32.88	310	291	A	H
		5351.04	51.1	-22.9	74	42.2	31.2	10.6	32.9	310	291	P	H
		5350.32	42.38	-11.62	54	33.48	31.2	10.6	32.9	310	291	A	H
		5086.02	51.02	-22.98	74	41.65	31.84	10.29	32.76	214	314	P	V
		5145.52	41.4	-12.6	54	32.02	31.81	10.37	32.8	214	314	A	V
	*	5300	118.39	-	-	109.52	31.2	10.55	32.88	214	314	P	V
	*	5300	110.81	-	-	101.94	31.2	10.55	32.88	214	314	A	V
		5359.44	55.53	-18.47	74	46.59	31.24	10.61	32.91	214	314	P	V
		5350.08	46.16	-7.84	54	37.26	31.2	10.6	32.9	214	314	A	V



802.11a CH 64 5320MHz	*	5320	113.66	-	-	104.78	31.2	10.57	32.89	310	290	P	H
	*	5320	105.92	-	-	97.04	31.2	10.57	32.89	310	290	A	H
		5350.08	57.92	-16.08	74	49.02	31.2	10.6	32.9	310	290	P	H
		5350.08	47.85	-6.15	54	38.95	31.2	10.6	32.9	310	290	A	H
													H
													H
	*	5320	117.33	-	-	108.45	31.2	10.57	32.89	245	275	P	V
	*	5320	110.13	-	-	101.25	31.2	10.57	32.89	245	275	A	V
		5350.56	61.8	-12.2	74	52.9	31.2	10.6	32.9	245	275	P	V
		5350.56	51.56	-2.44	54	42.66	31.2	10.6	32.9	245	275	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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 52 5260MHz		10520	46.92	-21.28	68.2	56.84	39.98	16.82	66.72	100	0	P	H
		15780	47.38	-26.62	74	54.72	37.4	21.69	66.43	100	0	P	H
		17945	56.87	-17.13	74	52.31	46.3	23.44	65.18	100	0	P	H
		17945	47.56	-6.44	54	43	46.3	23.44	65.18	100	0	A	H
		10520	47.53	-20.67	68.2	57.45	39.98	16.82	66.72	100	0	P	V
		15780	46.97	-27.03	74	54.31	37.4	21.69	66.43	100	0	P	V
		17934	57.79	-16.21	74	53.48	46.08	23.43	65.2	100	0	P	V
		17934	47.26	-6.74	54	42.95	46.08	23.43	65.2	100	0	A	V
802.11a CH 60 5300MHz		10600	47.11	-26.89	74	56.93	39.9	16.9	66.62	100	0	P	H
		15900	47.45	-26.55	74	54.98	37.4	21.65	66.58	100	0	P	H
		17923	56.62	-17.38	74	52.56	45.86	23.42	65.22	100	0	P	H
		17923	46.41	-7.59	54	42.35	45.86	23.42	65.22	100	0	A	H
		10600	46.63	-27.37	74	56.45	39.9	16.9	66.62	100	0	P	V
		15900	47.34	-26.66	74	54.87	37.4	21.65	66.58	100	0	P	V
		17945	57.58	-16.42	74	53.02	46.3	23.44	65.18	100	0	P	V
		17945	47.54	-6.46	54	42.98	46.3	23.44	65.18	100	0	A	V
802.11a CH 64 5320MHz		10640	45.52	-28.48	74	55.17	39.98	16.94	66.57	100	0	P	H
		15960	47.66	-26.34	74	55.42	37.28	21.62	66.66	100	0	P	H
		17989	56.92	-17.08	74	51.38	47.18	23.48	65.12	100	0	P	H
		17989	46.94	-7.06	54	41.4	47.18	23.48	65.12	100	0	A	H
		10640	45.41	-28.59	74	55.06	39.98	16.94	66.57	100	0	P	V
		15960	46.27	-27.73	74	54.03	37.28	21.62	66.66	100	0	P	V
		17934	57.24	-16.76	74	52.93	46.08	23.43	65.2	100	0	P	V
		17934	47.23	-6.77	54	42.92	46.08	23.43	65.2	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (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)
802.11ac VHT20 CH 52 5260MHz		5066.3	51.22	-22.78	74	41.94	31.77	10.26	32.75	301	304	P	H
		5099.28	41.08	-12.92	54	31.65	31.9	10.3	32.77	301	304	A	H
	*	5260	114.1	-	-	105.26	31.2	10.5	32.86	301	304	P	H
	*	5260	105.94	-	-	97.1	31.2	10.5	32.86	301	304	A	H
		5442.72	49.4	-24.6	74	40.12	31.57	10.66	32.95	301	304	P	H
		5350.56	40.16	-13.84	54	31.26	31.2	10.6	32.9	301	304	A	H
		5125.46	51.62	-22.38	74	42.22	31.85	10.34	32.79	209	314	P	V
		5145.52	41.57	-12.43	54	32.19	31.81	10.37	32.8	209	314	A	V
	*	5260	118.5	-	-	109.66	31.2	10.5	32.86	209	314	P	V
	*	5260	110.56	-	-	101.72	31.2	10.5	32.86	209	314	A	V
		5352	51.88	-22.12	74	42.97	31.21	10.6	32.9	209	314	P	V
		5350.08	43.23	-10.77	54	34.33	31.2	10.6	32.9	209	314	A	V
802.11ac VHT20 CH 60 5300MHz		5041.82	51.1	-22.9	74	41.98	31.63	10.23	32.74	100	319	P	H
		5092.14	41.03	-12.97	54	31.64	31.87	10.29	32.77	100	319	A	H
	*	5300	113.98	-	-	105.11	31.2	10.55	32.88	100	319	P	H
	*	5300	106.11	-	-	97.24	31.2	10.55	32.88	100	319	A	H
		5350.08	50.24	-23.76	74	41.34	31.2	10.6	32.9	100	319	P	H
		5357.52	41.68	-12.32	54	32.75	31.23	10.61	32.91	100	319	A	H
		5131.58	51.72	-22.28	74	42.32	31.84	10.35	32.79	226	315	P	V
		5068.68	41.59	-12.41	54	32.32	31.77	10.26	32.76	226	315	A	V
	*	5300	117.75	-	-	108.88	31.2	10.55	32.88	226	315	P	V
	*	5300	110.03	-	-	101.16	31.2	10.55	32.88	226	315	A	V
		5350.8	55.77	-18.23	74	46.87	31.2	10.6	32.9	226	315	P	V
		5350.08	46.75	-7.25	54	37.85	31.2	10.6	32.9	226	315	A	V



802.11ac VHT20 CH 64 5320MHz	*	5320	114.06	-	-	105.18	31.2	10.57	32.89	383	266	P	H
	*	5320	106.36	-	-	97.48	31.2	10.57	32.89	383	266	A	H
		5351.52	53.47	-20.53	74	44.56	31.21	10.6	32.9	383	266	P	H
		5353.6	44.88	-9.12	54	35.97	31.21	10.6	32.9	383	266	A	H
													H
													H
	*	5320	117.87	-	-	108.99	31.2	10.57	32.89	229	275	P	V
	*	5320	109.84	-	-	100.96	31.2	10.57	32.89	229	275	A	V
		5350.24	60.49	-13.51	74	51.59	31.2	10.6	32.9	229	275	P	V
		5350.08	50.1	-3.9	54	41.2	31.2	10.6	32.9	229	275	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (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)
802.11ac VHT20 CH 52 5260MHz		10520	47.21	-20.99	68.2	57.13	39.98	16.82	66.72	100	0	P	H
		15780	47.13	-26.87	74	54.47	37.4	21.69	66.43	100	0	P	H
		17945	56.9	-17.1	74	52.34	46.3	23.44	65.18	100	0	P	H
		17945	47.14	-6.86	54	42.58	46.3	23.44	65.18	100	0	A	H
		10520	46.86	-21.34	68.2	56.78	39.98	16.82	66.72	100	0	P	V
		15780	47.47	-26.53	74	54.81	37.4	21.69	66.43	100	0	P	V
		17934	57.41	-16.59	74	53.1	46.08	23.43	65.2	100	0	P	V
		17934	47.18	-6.82	54	42.87	46.08	23.43	65.2	100	0	A	V
802.11ac VHT20 CH 60 5300MHz		10600	46.08	-27.92	74	55.9	39.9	16.9	66.62	100	0	P	H
		15900	47.39	-26.61	74	54.92	37.4	21.65	66.58	100	0	P	H
		17945	56.66	-17.34	74	52.1	46.3	23.44	65.18	100	0	P	H
		17945	46.5	-7.5	54	41.94	46.3	23.44	65.18	100	0	A	H
		10600	46.71	-27.29	74	56.53	39.9	16.9	66.62	100	0	P	V
		15900	46.19	-27.81	74	53.72	37.4	21.65	66.58	100	0	P	V
		17945	56.8	-17.2	74	52.24	46.3	23.44	65.18	100	0	P	V
		17945	46.99	-7.01	54	42.43	46.3	23.44	65.18	100	0	A	V
802.11ac VHT20 CH 64 5320MHz		10640	46.18	-27.82	74	55.83	39.98	16.94	66.57	100	0	P	H
		15960	46.13	-27.87	74	53.89	37.28	21.62	66.66	100	0	P	H
		17934	57.71	-16.29	74	53.4	46.08	23.43	65.2	100	0	P	H
		17934	46.73	-7.27	54	42.42	46.08	23.43	65.2	100	0	A	H
		10640	45.5	-28.5	74	55.15	39.98	16.94	66.57	100	0	P	V
		15960	46.19	-27.81	74	53.95	37.28	21.62	66.66	100	0	P	V
		17956	56.86	-17.14	74	52.06	46.52	23.45	65.17	100	0	P	V
		17956	46.75	-7.25	54	41.95	46.52	23.45	65.17	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (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)
802.11ac VHT40 CH 54 5270MHz		5105.82	50.93	-23.07	74	41.51	31.89	10.31	32.78	300	290	P	H
		5047.84	43.18	-10.82	54	34.01	31.68	10.23	32.74	300	290	A	H
	*	5270	111.92	-	-	103.07	31.2	10.51	32.86	300	290	P	H
	*	5270	104.25	-	-	95.4	31.2	10.51	32.86	300	290	A	H
		5353.32	52.33	-21.67	74	43.42	31.21	10.6	32.9	300	290	P	H
		5351.36	44.35	-9.65	54	35.44	31.21	10.6	32.9	300	290	A	H
		5014.04	51.23	-22.77	74	42.36	31.41	10.19	32.73	200	314	P	V
		5047.58	43.88	-10.12	54	34.71	31.68	10.23	32.74	200	314	A	V
	*	5270	114.96	-	-	106.11	31.2	10.51	32.86	200	314	P	V
	*	5270	107.32	-	-	98.47	31.2	10.51	32.86	200	314	A	V
		5353.04	53.51	-20.49	74	44.6	31.21	10.6	32.9	200	314	P	V
		5352.2	47.49	-6.51	54	38.58	31.21	10.6	32.9	200	314	A	V
802.11ac VHT40 CH 62 5310MHz		5088.4	52.3	-21.7	74	42.93	31.85	10.29	32.77	302	309	P	H
		5086.36	43.28	-10.72	54	33.9	31.85	10.29	32.76	302	309	A	H
	*	5310	109.41	-	-	100.53	31.2	10.56	32.88	302	309	P	H
	*	5310	102.28	-	-	93.4	31.2	10.56	32.88	302	309	A	H
		5355.84	51.54	-22.46	74	42.63	31.22	10.6	32.91	302	309	P	H
		5350.56	45.54	-8.46	54	36.64	31.2	10.6	32.9	302	309	A	H
		5088.06	52.4	-21.6	74	43.03	31.85	10.29	32.77	230	316	P	V
		5087.38	45.51	-8.49	54	36.14	31.85	10.29	32.77	230	316	A	V
	*	5310	111.88	-	-	103	31.2	10.56	32.88	230	316	P	V
	*	5310	104.76	-	-	95.88	31.2	10.56	32.88	230	316	A	V
		5365.2	57	-17	74	48.04	31.26	10.61	32.91	230	316	P	V
		5351.52	49.75	-4.25	54	40.84	31.21	10.6	32.9	230	316	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (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)
802.11ac VHT40 CH 54 5270MHz		10540	46.44	-21.76	68.2	56.34	39.96	16.84	66.7	100	0	P	H
		15810	47	-27	74	54.48	37.31	21.68	66.47	100	0	P	H
		17934	57.31	-16.69	74	53	46.08	23.43	65.2	100	0	P	H
		17934	47.25	-6.75	54	42.94	46.08	23.43	65.2	100	0	A	H
		10540	45.44	-22.76	68.2	55.34	39.96	16.84	66.7	100	0	P	V
		15810	48.18	-25.82	74	55.66	37.31	21.68	66.47	100	0	P	V
		17945	57.39	-16.61	74	52.83	46.3	23.44	65.18	100	0	P	V
		17945	47.69	-6.31	54	43.13	46.3	23.44	65.18	100	0	A	V
802.11ac VHT40 CH 62 5310MHz		10620	44.94	-29.06	74	54.67	39.94	16.92	66.59	100	0	P	H
		15930	46.43	-27.57	74	54.08	37.34	21.63	66.62	100	0	P	H
		17934	56.37	-17.63	74	52.06	46.08	23.43	65.2	100	0	P	H
		17934	47.82	-6.18	54	43.51	46.08	23.43	65.2	100	0	A	H
		10620	44.59	-29.41	74	54.32	39.94	16.92	66.59	100	0	P	V
		15930	46.85	-27.15	74	54.5	37.34	21.63	66.62	100	0	P	V
		17945	56.58	-17.42	74	52.02	46.3	23.44	65.18	100	0	P	V
		17945	47.73	-6.27	54	43.17	46.3	23.44	65.18	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 58 5290MHz		5092.4	51.13	-22.87	74	41.74	31.87	10.29	32.77	305	292	P	H
		5052.5	42.65	-11.35	54	33.45	31.71	10.24	32.75	305	292	A	H
	*	5290	102.14	-	-	93.28	31.2	10.53	32.87	305	292	P	H
	*	5290	93.55	-	-	84.69	31.2	10.53	32.87	305	292	A	H
		5352.24	58.37	-15.63	74	49.46	31.21	10.6	32.9	305	292	P	H
		5353.44	50.51	-3.49	54	41.6	31.21	10.6	32.9	305	292	A	H
		5048	50.9	-23.1	74	41.73	31.68	10.23	32.74	131	356	P	V
		5089.7	42.75	-11.25	54	33.37	31.86	10.29	32.77	131	356	A	V
	*	5290	105.65	-	-	96.79	31.2	10.53	32.87	131	356	P	V
	*	5290	97.53	-	-	88.67	31.2	10.53	32.87	131	356	A	V
		5366.4	59.85	-14.15	74	50.88	31.27	10.61	32.91	131	356	P	V
		5350.08	51.92	-2.08	54	43.02	31.2	10.6	32.9	131	356	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 2 5250~5350MHz****WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 58 5290MHz		10580	45.1	-23.1	68.2	54.96	39.92	16.87	66.65	100	0	P	H
		15870	46.97	-27.03	74	54.49	37.37	21.66	66.55	100	0	P	H
		17934	56.44	-17.56	74	52.13	46.08	23.43	65.2	100	0	P	H
		17934	47.75	-6.25	54	43.44	46.08	23.43	65.2	100	0	A	H
		10580	45.49	-22.71	68.2	55.35	39.92	16.87	66.65	100	0	P	V
		15870	46.16	-27.84	74	53.68	37.37	21.66	66.55	100	0	P	V
		17967	56.56	-17.44	74	51.51	46.74	23.46	65.15	100	0	P	V
		17967	48.33	-5.67	54	43.28	46.74	23.46	65.15	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

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 100 5500MHz		5459.44	53.53	-20.47	74	44.21	31.62	10.66	32.96	236	329	P	H
		5469.84	61.18	-7.02	68.2	51.84	31.64	10.66	32.96	236	329	P	H
		5460	43.6	-10.4	54	34.28	31.62	10.66	32.96	236	329	A	H
	*	5500	112.94	-	-	103.56	31.7	10.66	32.98	236	329	P	H
	*	5500	105.98	-	-	96.6	31.7	10.66	32.98	236	329	A	H
													H
		5453.52	55.37	-18.63	74	46.06	31.61	10.66	32.96	247	275	P	V
		5469.2	63.53	-4.67	68.2	54.19	31.64	10.66	32.96	247	275	P	V
		5460	46.55	-7.45	54	37.23	31.62	10.66	32.96	247	275	A	V
	*	5500	117.83	-	-	108.45	31.7	10.66	32.98	247	275	P	V
		5500	110.35	-	-	100.97	31.7	10.66	32.98	247	275	P	V
													V
802.11a CH 116 5580MHz		5350.48	49.83	-24.17	74	40.93	31.2	10.6	32.9	206	35	P	H
		5467.6	48.86	-19.34	68.2	39.52	31.64	10.66	32.96	206	35	P	H
		5458.96	39.99	-14.01	54	30.67	31.62	10.66	32.96	206	35	A	H
	*	5580	113.67	-	-	104.3	31.66	10.68	32.97	206	35	P	H
	*	5580	106.15	-	-	96.78	31.66	10.68	32.97	206	35	A	H
		5765	50.48	-17.72	68.2	40.51	32.03	10.87	32.93	206	35	P	H
		5411.44	50.63	-23.37	74	41.46	31.45	10.65	32.93	219	3	P	V
		5468.32	50.4	-17.8	68.2	41.06	31.64	10.66	32.96	219	3	P	V
		5457.76	40.75	-13.25	54	31.43	31.62	10.66	32.96	219	3	A	V
	*	5580	117.92	-	-	108.55	31.66	10.68	32.97	219	3	P	V
	*	5580	109.87	-	-	100.5	31.66	10.68	32.97	219	3	A	V
		5761.22	51.56	-16.64	68.2	41.6	32.02	10.87	32.93	219	3	P	V



802.11a CH 140 5700MHz	*	5700	112	-	-	102.34	31.8	10.8	32.94	254	336	P	H
	*	5700	104.47	-	-	94.81	31.8	10.8	32.94	254	336	A	H
		5728.36	59.2	-9	68.2	49.4	31.91	10.83	32.94	254	336	P	H
													H
													H
													H
	*	5700	115.32	-	-	105.66	31.8	10.8	32.94	100	5	P	V
	*	5700	108.16	-	-	98.5	31.8	10.8	32.94	100	5	A	V
		5727.16	64.89	-3.31	68.2	55.09	31.91	10.83	32.94	100	5	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
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 100 5500MHz		11000	45.53	-28.47	74	54.16	40.2	17.27	66.1	100	0	P	H
		16500	47.85	-20.35	68.2	53.6	38.5	22.07	66.32	100	0	P	H
		17934	56.24	-17.76	74	51.93	46.08	23.43	65.2	100	0	P	H
		17934	47.18	-6.82	54	42.87	46.08	23.43	65.2	100	0	A	H
		11000	45.27	-28.73	74	53.9	40.2	17.27	66.1	100	0	P	V
		16500	47.41	-20.79	68.2	53.16	38.5	22.07	66.32	100	0	P	V
		17956	55.66	-18.34	74	50.86	46.52	23.45	65.17	100	0	P	V
		17956	47.72	-6.28	54	42.92	46.52	23.45	65.17	100	0	A	V
802.11a CH 116 5580MHz		11160	47.49	-26.51	74	56.59	39.62	17.42	66.14	100	0	P	H
		16740	49.22	-18.98	68.2	53.68	39.62	22.29	66.37	100	0	P	H
		17923	56.23	-17.77	74	52.17	45.86	23.42	65.22	100	0	P	H
		17923	46.55	-7.45	54	42.49	45.86	23.42	65.22	100	0	A	H
		11160	46.97	-27.03	74	56.07	39.62	17.42	66.14	100	0	P	V
		16740	49.2	-19	68.2	53.66	39.62	22.29	66.37	100	0	P	V
		17945	55.26	-18.74	74	50.7	46.3	23.44	65.18	100	0	P	V
		17945	47.11	-6.89	54	42.55	46.3	23.44	65.18	100	0	A	V
802.11a CH 140 5700MHz		11400	46.28	-27.72	74	55.13	39.7	17.65	66.2	100	0	P	H
		17100	48.05	-20.15	68.2	51.84	39.9	22.62	66.31	100	0	P	H
		17945	55.27	-18.73	74	50.71	46.3	23.44	65.18	100	0	P	H
		17945	47.04	-6.96	54	42.48	46.3	23.44	65.18	100	0	A	H
		11400	46	-28	74	54.85	39.7	17.65	66.2	100	0	P	V
		17100	48.35	-19.85	68.2	52.14	39.9	22.62	66.31	100	0	P	V
		17934	56.17	-17.83	74	51.86	46.08	23.43	65.2	100	0	P	V
		17934	47.09	-6.91	54	42.78	46.08	23.43	65.2	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT20 (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)
802.11ac VHT20 CH 100 5500MHz		5458.32	52.84	-21.16	74	43.52	31.62	10.66	32.96	396	51	P	H
		5470	60.54	-7.66	68.2	51.2	31.64	10.66	32.96	396	51	P	H
		5460	43.94	-10.06	54	34.62	31.62	10.66	32.96	396	51	A	H
	*	5500	112.88	-	-	103.5	31.7	10.66	32.98	396	51	P	H
	*	5500	105.1	-	-	95.72	31.7	10.66	32.98	396	51	A	H
													H
		5459.12	56.75	-17.25	74	47.43	31.62	10.66	32.96	135	4	P	V
		5470	64.99	-3.21	68.2	55.65	31.64	10.66	32.96	135	4	P	V
		5459.92	45.89	-8.11	54	36.57	31.62	10.66	32.96	135	4	A	V
	*	5500	115.59	-	-	106.21	31.7	10.66	32.98	135	4	P	V
	*	5500	107.95	-	-	98.57	31.7	10.66	32.98	135	4	A	V
													V
802.11ac VHT20 CH 116 5580MHz		5444.08	48.93	-25.07	74	39.64	31.58	10.66	32.95	219	34	P	H
		5468.08	49.3	-18.9	68.2	39.96	31.64	10.66	32.96	219	34	P	H
		5458.96	39.88	-14.12	54	30.56	31.62	10.66	32.96	219	34	A	H
	*	5580	112.62	-	-	103.25	31.66	10.68	32.97	219	34	P	H
	*	5580	105.21	-	-	95.84	31.66	10.68	32.97	219	34	A	H
		5752.085	51.62	-16.58	68.2	41.7	32	10.85	32.93	219	34	P	H
		5453.2	51.36	-22.64	74	42.05	31.61	10.66	32.96	197	2	P	V
		5462.8	49.51	-18.69	68.2	40.18	31.63	10.66	32.96	197	2	P	V
		5457.76	40.91	-13.09	54	31.59	31.62	10.66	32.96	197	2	A	V
	*	5580	117.95	-	-	108.58	31.66	10.68	32.97	197	2	P	V
	*	5580	110.46	-	-	101.09	31.66	10.68	32.97	197	2	A	V
		5725	50.59	-17.61	68.2	40.81	31.9	10.82	32.94	197	2	P	V



802.11ac VHT20 CH 140 5700MHz	*	5700	111.74	-	-	102.08	31.8	10.8	32.94	255	333	P	H
	*	5700	104.15	-	-	94.49	31.8	10.8	32.94	255	333	A	H
		5732.36	57.83	-10.37	68.2	48.01	31.93	10.83	32.94	255	333	P	H
													H
													H
													H
	*	5700	115.03	-	-	105.37	31.8	10.8	32.94	102	4	P	V
	*	5700	106.95	-	-	97.29	31.8	10.8	32.94	102	4	A	V
		5725.48	65.78	-2.42	68.2	56	31.9	10.82	32.94	102	4	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT20 (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)
802.11ac VHT20 CH 100 5500MHz		11000	45.92	-28.08	74	54.55	40.2	17.27	66.1	100	0	P	H
		16500	47.56	-20.64	68.2	53.31	38.5	22.07	66.32	100	0	P	H
		17945	55.74	-18.26	74	51.18	46.3	23.44	65.18	100	0	P	H
		17945	47.04	-6.96	54	42.48	46.3	23.44	65.18	100	0	A	H
		11000	46.24	-27.76	74	54.87	40.2	17.27	66.1	100	0	P	V
		16500	47.51	-20.69	68.2	53.26	38.5	22.07	66.32	100	0	P	V
		17945	55.75	-18.25	74	51.19	46.3	23.44	65.18	100	0	P	V
		17945	47.33	-6.67	54	42.77	46.3	23.44	65.18	100	0	A	V
802.11ac VHT20 CH 116 5580MHz		11160	47.1	-26.9	74	56.2	39.62	17.42	66.14	100	0	P	H
		16740	49.74	-18.46	68.2	54.2	39.62	22.29	66.37	100	0	P	H
		17945	56.1	-17.9	74	51.54	46.3	23.44	65.18	100	0	P	H
		17945	46.98	-7.02	54	42.42	46.3	23.44	65.18	100	0	A	H
		11160	47.24	-26.76	74	56.34	39.62	17.42	66.14	100	0	P	V
		16740	49.5	-18.7	68.2	53.96	39.62	22.29	66.37	100	0	P	V
		17923	55.85	-18.15	74	51.79	45.86	23.42	65.22	100	0	P	V
		17923	46.55	-7.45	54	42.49	45.86	23.42	65.22	100	0	A	V
802.11ac VHT20 CH 140 5700MHz		11400	45.27	-28.73	74	54.12	39.7	17.65	66.2	100	0	P	H
		17100	47.44	-20.76	68.2	51.23	39.9	22.62	66.31	100	0	P	H
		17989	55.55	-18.45	74	50.01	47.18	23.48	65.12	100	0	P	H
		17989	48.41	-5.59	54	42.87	47.18	23.48	65.12	100	0	A	H
		11400	45.91	-28.09	74	54.76	39.7	17.65	66.2	100	0	P	V
		17100	48.48	-19.72	68.2	52.27	39.9	22.62	66.31	100	0	P	V
		17934	56.31	-17.69	74	52	46.08	23.43	65.2	100	0	P	V
		17934	47.2	-6.8	54	42.89	46.08	23.43	65.2	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT40 (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)
802.11ac VHT40 CH 102 5510MHz		5458.96	53.51	-20.49	74	44.19	31.62	10.66	32.96	300	290	P	H
		5467.36	56.01	-12.19	68.2	46.68	31.63	10.66	32.96	300	290	P	H
		5459.2	44.52	-9.48	54	35.2	31.62	10.66	32.96	300	290	A	H
	*	5510	99.36	-	-	89.99	31.68	10.67	32.98	300	290	P	H
	*	5510	91.86	-	-	82.49	31.68	10.67	32.98	300	290	A	H
		5739.485	50	-18.2	68.2	40.14	31.96	10.84	32.94	300	290	P	H
		5459.92	57.29	-16.71	74	47.97	31.62	10.66	32.96	230	281	P	V
		5468.56	65.62	-2.58	68.2	56.28	31.64	10.66	32.96	230	281	P	V
		5459.92	50.52	-3.48	54	41.2	31.62	10.66	32.96	230	281	A	V
	*	5510	111.44	-	-	102.07	31.68	10.67	32.98	230	281	P	V
	*	5510	103.8	-	-	94.43	31.68	10.67	32.98	230	281	A	V
		5732.555	54.28	-13.92	68.2	44.46	31.93	10.83	32.94	230	281	P	V
802.11ac VHT40 CH 110 5550MHz		5459.68	50.01	-23.99	74	40.69	31.62	10.66	32.96	289	313	P	H
		5466.16	50.62	-17.58	68.2	41.29	31.63	10.66	32.96	289	313	P	H
		5459.44	42.53	-11.47	54	33.21	31.62	10.66	32.96	289	313	A	H
	*	5550	105.16	-	-	95.86	31.6	10.67	32.97	289	313	P	H
	*	5550	97.77	-	-	88.47	31.6	10.67	32.97	289	313	A	H
		5748.935	49.82	-18.38	68.2	39.91	32	10.85	32.94	289	313	P	H
		5450.8	52.78	-21.22	74	43.47	31.6	10.66	32.95	228	267	P	V
		5469.76	54.81	-13.39	68.2	45.47	31.64	10.66	32.96	228	267	P	V
		5458.96	45.49	-8.51	54	36.17	31.62	10.66	32.96	228	267	A	V
	*	5550	113.81	-	-	104.51	31.6	10.67	32.97	228	267	P	V
	*	5550	106.42	-	-	97.12	31.6	10.67	32.97	228	267	A	V
		5754.605	50.96	-17.24	68.2	41.02	32.01	10.86	32.93	228	267	P	V



802.11ac VHT40 CH 134 5670MHz		5451.5	49.52	-24.48	74	40.21	31.6	10.66	32.95	308	338	P	H
		5465.85	48.22	-19.98	68.2	38.89	31.63	10.66	32.96	308	338	P	H
		5446.25	42.32	-11.68	54	33.02	31.59	10.66	32.95	308	338	A	H
	*	5670	108.34	-	-	98.73	31.8	10.76	32.95	308	338	P	H
	*	5670	100.86	-	-	91.25	31.8	10.76	32.95	308	338	A	H
		5727.55	60.55	-7.65	68.2	50.75	31.91	10.83	32.94	308	338	P	H
		5446.25	54.57	-19.43	74	45.27	31.59	10.66	32.95	231	282	P	V
		5460.6	49.63	-18.57	68.2	40.31	31.62	10.66	32.96	231	282	P	V
		5447.3	48.39	-5.61	54	39.09	31.59	10.66	32.95	231	282	A	V
	*	5670	112.28	-	-	102.67	31.8	10.76	32.95	231	282	P	V
	*	5670	104.8	-	-	95.19	31.8	10.76	32.95	231	282	A	V
		5727.375	63.83	-4.37	68.2	54.03	31.91	10.83	32.94	231	282	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT40 (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)
802.11ac VHT40 CH 102 5510MHz		11020	47.13	-26.87	74	55.82	40.12	17.29	66.1	100	0	P	H
		16530	47.9	-20.3	68.2	53.54	38.59	22.1	66.33	100	0	P	H
		17967	56.28	-17.72	74	51.23	46.74	23.46	65.15	100	0	P	H
		17967	47.98	-6.02	54	42.93	46.74	23.46	65.15	100	0	A	H
		11020	45.98	-28.02	74	54.67	40.12	17.29	66.1	100	0	P	V
		16530	48.57	-19.63	68.2	54.21	38.59	22.1	66.33	100	0	P	V
		17934	56.39	-17.61	74	52.08	46.08	23.43	65.2	100	0	P	V
		17934	47.17	-6.83	54	42.86	46.08	23.43	65.2	100	0	A	V
802.11ac VHT40 CH 110 5550MHz		11100	45.78	-28.22	74	54.73	39.8	17.37	66.12	100	0	P	H
		16650	48.62	-19.58	68.2	53.62	39.15	22.2	66.35	100	0	P	H
		17934	55.85	-18.15	74	51.54	46.08	23.43	65.2	100	0	P	H
		17934	47.2	-6.8	54	42.89	46.08	23.43	65.2	100	0	A	H
		11100	45.26	-28.74	74	54.21	39.8	17.37	66.12	100	0	P	V
		16650	49.58	-18.62	68.2	54.58	39.15	22.2	66.35	100	0	P	V
		17945	56.58	-17.42	74	52.02	46.3	23.44	65.18	100	0	P	V
		17945	47.42	-6.58	54	42.86	46.3	23.44	65.18	100	0	A	V
802.11ac VHT40 CH 134 5670MHz		11340	44.67	-29.33	74	53.67	39.58	17.6	66.18	100	0	P	H
		17010	47.94	-20.26	68.2	51.64	40.17	22.54	66.41	100	0	P	H
		17945	55.31	-18.69	74	50.75	46.3	23.44	65.18	100	0	P	H
		17945	47.44	-6.56	54	42.88	46.3	23.44	65.18	100	0	A	H
		11340	45.09	-28.91	74	54.09	39.58	17.6	66.18	100	0	P	V
		17010	47.91	-20.29	68.2	51.61	40.17	22.54	66.41	100	0	P	V
		17923	56.03	-17.97	74	51.97	45.86	23.42	65.22	100	0	P	V
		17923	46.94	-7.06	54	42.88	45.86	23.42	65.22	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 106 5530MHz		5451.52	52.28	-21.72	74	42.97	31.6	10.66	32.95	390	46	P	H
		5467.36	55.73	-12.47	68.2	46.4	31.63	10.66	32.96	390	46	P	H
		5454.88	44.63	-9.37	54	35.32	31.61	10.66	32.96	390	46	A	H
	*	5530	99.26	-	-	89.92	31.64	10.67	32.97	390	46	P	H
	*	5530	91.55	-	-	82.21	31.64	10.67	32.97	390	46	A	H
		5762.48	50.56	-17.64	68.2	40.6	32.02	10.87	32.93	390	46	P	H
		5454.4	58.95	-15.05	74	49.64	31.61	10.66	32.96	100	0	P	V
		5460.88	58.22	-9.98	68.2	48.9	31.62	10.66	32.96	100	0	P	V
		5458.72	52.46	-1.54	54	43.14	31.62	10.66	32.96	100	0	A	V
	*	5530	104.79	-	-	95.45	31.64	10.67	32.97	100	0	P	V
	*	5530	96.79	-	-	87.45	31.64	10.67	32.97	100	0	A	V
		5741.06	51.72	-16.48	68.2	41.86	31.96	10.84	32.94	100	0	P	V
802.11ac VHT80 CH 122 5610MHz		5453.6	55.32	-18.68	74	46.01	31.61	10.66	32.96	205	35	P	H
		5469.35	54.99	-13.21	68.2	45.65	31.64	10.66	32.96	205	35	P	H
		5456.05	46.47	-7.53	54	37.16	31.61	10.66	32.96	205	35	A	H
	*	5610	108.61	-	-	99.16	31.72	10.69	32.96	205	35	P	H
	*	5610	100.87	-	-	91.42	31.72	10.69	32.96	205	35	A	H
		5731.225	58.89	-9.31	68.2	49.08	31.92	10.83	32.94	205	35	P	H
		5459.2	58.18	-15.82	74	48.86	31.62	10.66	32.96	304	0	P	V
		5465.5	60.03	-8.17	68.2	50.7	31.63	10.66	32.96	304	0	P	V
		5458.5	51.83	-2.17	54	42.51	31.62	10.66	32.96	304	0	A	V
	*	5610	112.01	-	-	102.56	31.72	10.69	32.96	304	0	P	V
	*	5610	104.17	-	-	94.72	31.72	10.69	32.96	304	0	A	V
		5738.225	62.99	-5.21	68.2	53.14	31.95	10.84	32.94	304	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 106 5530MHz		11060	46.69	-27.31	74	55.51	39.96	17.33	66.11	100	0	P	H
		16590	48.32	-19.88	68.2	53.74	38.77	22.15	66.34	100	0	P	H
		17945	56.67	-17.33	74	52.11	46.3	23.44	65.18	100	0	P	H
		17945	47.48	-6.52	54	42.92	46.3	23.44	65.18	100	0	A	H
		11060	45.22	-28.78	74	54.04	39.96	17.33	66.11	100	0	P	V
		16590	47.5	-20.7	68.2	52.92	38.77	22.15	66.34	100	0	P	V
		17934	56.16	-17.84	74	51.85	46.08	23.43	65.2	100	0	P	V
		17934	47.2	-6.8	54	42.89	46.08	23.43	65.2	100	0	A	V
802.11ac VHT80 CH 122 5610MHz		11220	46.82	-27.18	74	55.99	39.5	17.48	66.15	100	0	P	H
		16830	49.59	-18.61	68.2	53.81	39.8	22.37	66.39	100	0	P	H
		17934	56.61	-17.39	74	52.3	46.08	23.43	65.2	100	0	P	H
		17934	47.25	-6.75	54	42.94	46.08	23.43	65.2	100	0	A	H
		11220	47.2	-26.8	74	56.37	39.5	17.48	66.15	100	0	P	V
		16830	49.9	-18.3	68.2	54.12	39.8	22.37	66.39	100	0	P	V
		17956	57.49	-16.51	74	52.69	46.52	23.45	65.17	100	0	P	V
		17956	47.7	-6.3	54	42.9	46.52	23.45	65.17	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5435.02	49.96	-24.04	74	40.71	31.54	10.66	32.95	208	327	P	H
		5462.71	48.89	-19.31	68.2	39.56	31.63	10.66	32.96	208	327	P	H
		5452.57	40.07	-13.93	54	30.76	31.61	10.66	32.96	208	327	A	H
	*	5720	113.66	-	-	103.9	31.88	10.82	32.94	208	327	P	H
	*	5720	106.13	-	-	96.37	31.88	10.82	32.94	208	327	A	H
		5944.75	51.82	-16.38	68.2	41.28	32.4	11.04	32.9	208	327	P	H
		5438.14	49.75	-24.25	74	40.49	31.55	10.66	32.95	100	4	P	V
		5466.22	49.75	-18.45	68.2	40.42	31.63	10.66	32.96	100	4	P	V
		5458.42	40.23	-13.77	54	30.91	31.62	10.66	32.96	100	4	A	V
	*	5720	118.24	-	-	108.48	31.88	10.82	32.94	100	4	P	V
	*	5720	110.91	-	-	101.15	31.88	10.82	32.94	100	4	A	V
		5940.75	51.89	-16.31	68.2	41.35	32.4	11.04	32.9	100	4	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
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 144 5720MHz		11440	45.48	-28.52	74	54.25	39.74	17.7	66.21	100	0	P	H
		17160	48.81	-19.39	68.2	52.41	39.96	22.68	66.24	100	0	P	H
		17934	56.74	-17.26	74	52.43	46.08	23.43	65.2	100	0	P	H
		17934	46.76	-7.24	54	42.45	46.08	23.43	65.2	100	0	A	H
		11440	46.47	-27.53	74	55.24	39.74	17.7	66.21	100	0	P	V
		17160	48.9	-19.3	68.2	52.5	39.96	22.68	66.24	100	0	P	V
		17945	55.68	-18.32	74	51.12	46.3	23.44	65.18	100	0	P	V
		17945	47.04	-6.96	54	42.48	46.3	23.44	65.18	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT20 (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)
802.11ac VHT20 CH 144 5720MHz		5429.56	48.6	-25.4	74	39.37	31.52	10.65	32.94	210	353	P	H
		5470	48.97	-19.23	68.2	39.63	31.64	10.66	32.96	210	353	P	H
		5459.98	40.01	-13.99	54	30.69	31.62	10.66	32.96	210	353	A	H
	*	5720	113.58	-	-	103.82	31.88	10.82	32.94	210	353	P	H
	*	5720	106.04	-	-	96.28	31.88	10.82	32.94	210	353	A	H
		5931	51.38	-16.82	68.2	40.85	32.4	11.03	32.9	210	353	P	H
		5457.25	50.18	-23.82	74	40.87	31.61	10.66	32.96	100	4	P	V
		5461.15	50.09	-18.11	68.2	40.77	31.62	10.66	32.96	100	4	P	V
		5459.59	40.23	-13.77	54	30.91	31.62	10.66	32.96	100	4	A	V
	*	5720	118.52	-	-	108.76	31.88	10.82	32.94	100	4	P	V
	*	5720	110.9	-	-	101.14	31.88	10.82	32.94	100	4	A	V
		5875.75	52.23	-15.97	68.2	41.81	32.35	10.98	32.91	100	4	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT20 (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)
802.11ac VHT20 CH 144 5720MHz		11440	45.04	-28.96	74	53.81	39.74	17.7	66.21	100	0	P	H
		17160	47.04	-21.16	68.2	50.64	39.96	22.68	66.24	100	0	P	H
		17945	55.19	-18.81	74	50.63	46.3	23.44	65.18	100	0	P	H
		17945	46.93	-7.07	54	42.37	46.3	23.44	65.18	100	0	A	H
		11440	45.33	-28.67	74	54.1	39.74	17.7	66.21	100	0	P	V
		17160	47.38	-20.82	68.2	50.98	39.96	22.68	66.24	100	0	P	V
		17945	55.9	-18.1	74	51.34	46.3	23.44	65.18	100	0	P	V
		17945	47.03	-6.97	54	42.47	46.3	23.44	65.18	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT40 (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)
802.11ac VHT40 CH 142 5710MHz		5429.56	49.6	-24.4	74	40.37	31.52	10.65	32.94	100	6	P	H
		5464.27	49.47	-18.73	68.2	40.14	31.63	10.66	32.96	100	6	P	H
		5451.4	40.96	-13.04	54	31.65	31.6	10.66	32.95	100	6	A	H
	*	5710	103.98	-	-	94.27	31.84	10.81	32.94	100	6	P	H
	*	5710	95.66	-	-	85.95	31.84	10.81	32.94	100	6	A	H
		5935	51.9	-16.3	68.2	41.37	32.4	11.03	32.9	100	6	P	H
		5457.64	50.83	-23.17	74	41.51	31.62	10.66	32.96	100	10	P	V
		5465.44	48.88	-19.32	68.2	39.55	31.63	10.66	32.96	100	10	P	V
		5458.03	42.25	-11.75	54	32.93	31.62	10.66	32.96	100	10	A	V
	*	5710	114.72	-	-	105.01	31.84	10.81	32.94	100	10	P	V
	*	5710	106.48	-	-	96.77	31.84	10.81	32.94	100	10	A	V
		5934.5	58.32	-9.88	68.2	47.79	32.4	11.03	32.9	100	10	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT40 (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)
802.11ac VHT40 CH 142 5710MHz		11420	46.15	-27.85	74	54.95	39.72	17.68	66.2	100	0	P	H
		17130	48.62	-19.58	68.2	52.32	39.93	22.65	66.28	100	0	P	H
		17945	56.07	-17.93	74	51.51	46.3	23.44	65.18	100	0	P	H
		17945	47.44	-6.56	54	42.88	46.3	23.44	65.18	100	0	A	H
		11420	45.23	-28.77	74	54.03	39.72	17.68	66.2	100	0	P	V
		17130	47.09	-21.11	68.2	50.79	39.93	22.65	66.28	100	0	P	V
		17923	54.97	-19.03	74	50.91	45.86	23.42	65.22	100	0	P	V
		17923	46.96	-7.04	54	42.9	45.86	23.42	65.22	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 138 5690MHz		5415.91	49.23	-24.77	74	40.06	31.46	10.65	32.94	227	336	P	H
		5468.17	49.97	-18.23	68.2	40.63	31.64	10.66	32.96	227	336	P	H
		5446.72	40.94	-13.06	54	31.64	31.59	10.66	32.95	227	336	A	H
	*	5690	108.6	-	-	98.97	31.8	10.78	32.95	227	336	P	H
	*	5690	100.76	-	-	91.13	31.8	10.78	32.95	227	336	A	H
		5860.9	55.93	-12.27	68.2	45.57	32.32	10.96	32.92	227	336	P	H
		5459.98	50.11	-23.89	74	40.79	31.62	10.66	32.96	100	5	P	V
		5459.98	50.11	-23.89	74	40.79	31.62	10.66	32.96	100	5	P	V
		5457.64	41.66	-12.34	54	32.34	31.62	10.66	32.96	100	5	A	V
	*	5690	112.12	-	-	102.49	31.8	10.78	32.95	100	5	P	V
	*	5690	104.09	-	-	94.46	31.8	10.78	32.95	100	5	A	V
		5854	61.73	-6.47	68.2	51.38	32.31	10.96	32.92	100	5	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 138 5690MHz		11380	46.18	-27.82	74	55.08	39.66	17.63	66.19	100	0	P	H
		17070	49.27	-18.93	68.2	53.02	39.99	22.6	66.34	100	0	P	H
		17934	57.21	-16.79	74	52.9	46.08	23.43	65.2	100	0	P	H
		17934	47.2	-6.8	54	42.89	46.08	23.43	65.2	100	0	A	H
		11380	46.2	-27.8	74	55.1	39.66	17.63	66.19	100	0	P	V
		17070	49.55	-18.65	68.2	53.3	39.99	22.6	66.34	100	0	P	V
		17945	56.91	-17.09	74	52.35	46.3	23.44	65.18	100	0	P	V
		17945	47.46	-6.54	54	42.9	46.3	23.44	65.18	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

[illegible]

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

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)
5GHz 802.11ac VHT80 LF		54.25	24.93	-15.07	40	43.98	12.35	1.15	32.55	100	0	P	H
		155.13	26.06	-17.44	43.5	39.99	16.67	1.92	32.52	-	-	P	H
		192.96	25.6	-17.9	43.5	41.34	14.65	2.15	32.54	-	-	P	H
		769.14	28.63	-17.37	46	28.19	28.12	4.16	31.84	-	-	P	H
		861.29	30.7	-15.3	46	28.33	29.29	4.43	31.35	-	-	P	H
		949.56	30.71	-15.29	46	26.24	30.65	4.7	30.88	-	-	P	H
													H
													H
													H
													H
													H
													H
		39.7	33.88	-6.12	40	46.02	19.38	0.98	32.5	100	0	P	V
		54.25	33.87	-6.13	40	52.92	12.35	1.15	32.55	-	-	P	V
		106.63	29.21	-14.29	43.5	43.7	16.44	1.57	32.5	-	-	P	V
		881.66	31.11	-14.89	46	28.7	29.18	4.5	31.27	-	-	P	V
		936.95	30.04	-15.96	46	26.43	29.91	4.66	30.96	-	-	P	V
		949.56	30.98	-15.02	46	26.51	30.65	4.7	30.88	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	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		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Harvey Guo, Bill Chang , Fu Chen, and Troye Hsieh	Temperature :	18.3~25.7°C
		Relative Humidity :	58.2~70.8%

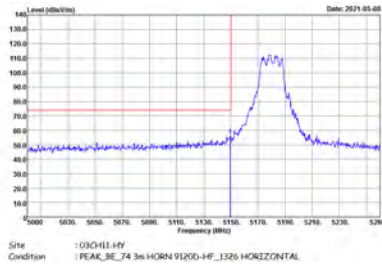
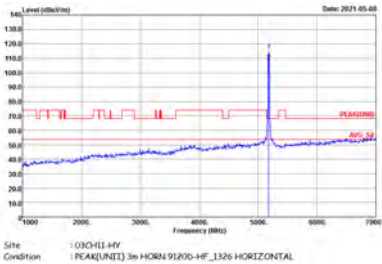
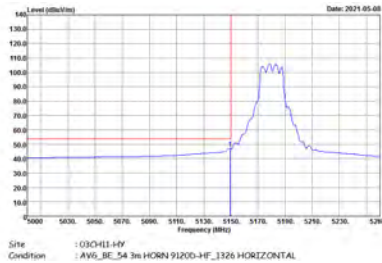
Remark: For Radiated Spurious Emission Plots Test Items, Ant. 1 means Aux. Antenna and Ant. 2 means Main Antenna.

Note symbol

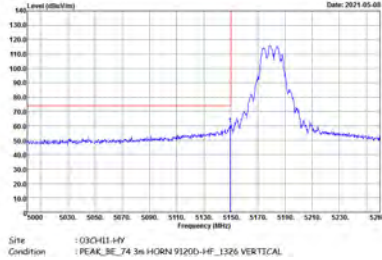
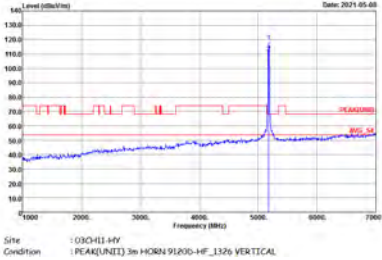
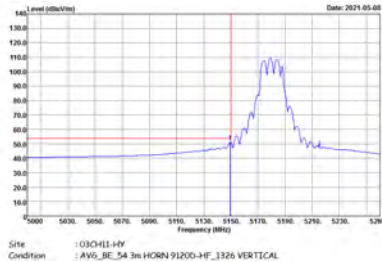
-L	Low channel location
-R	High channel location



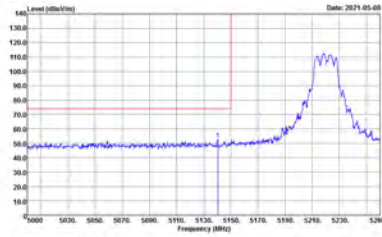
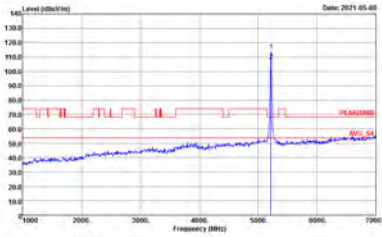
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

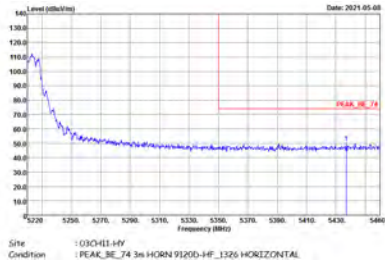
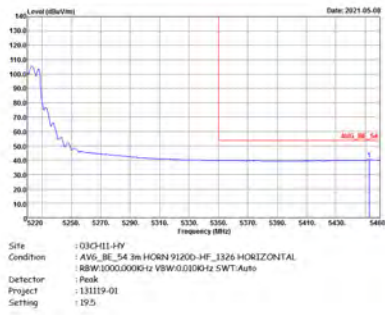
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

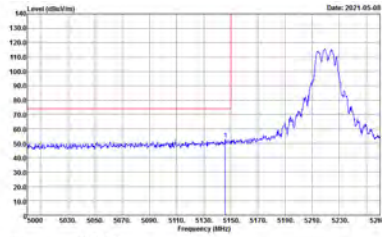
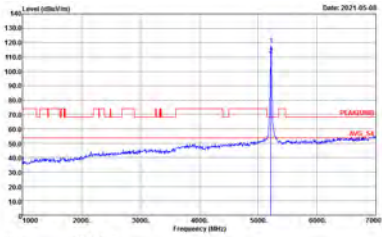
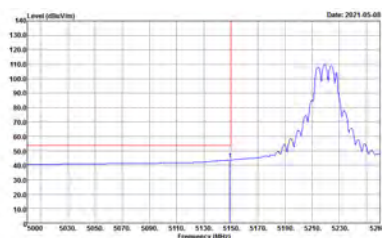


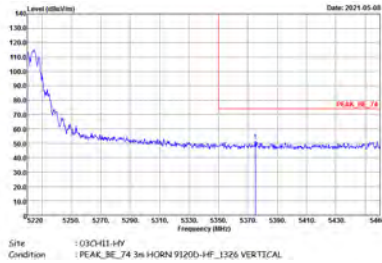
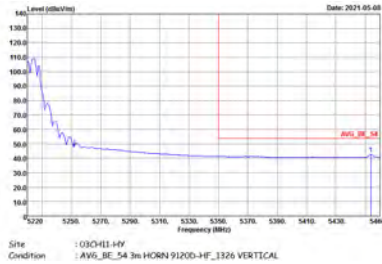
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

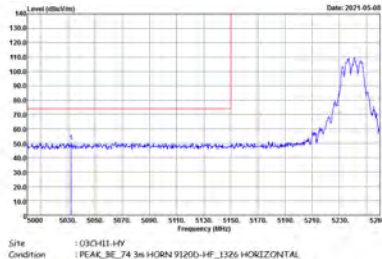
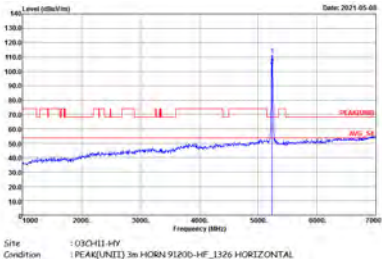
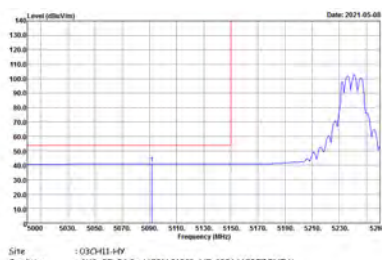


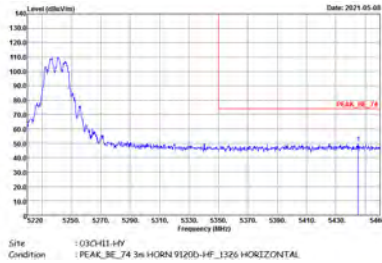
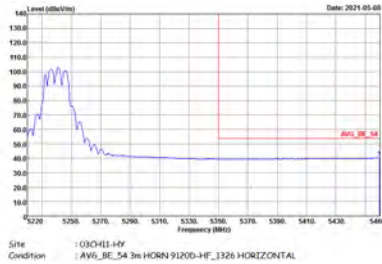
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

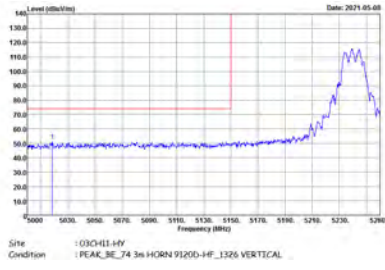
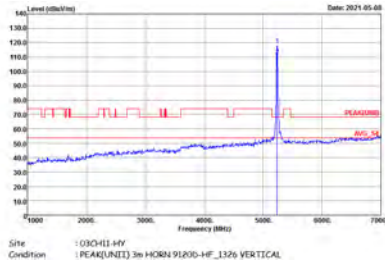
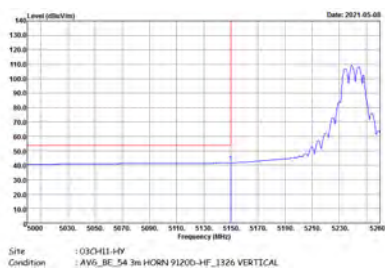
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-4V Condition : PEAK_BE_74 3m HORN 91200-4F_1326 VERTICAL	 Site : 03CH11-4V Condition : PEAK(UNIT) 3m HORN 91200-4F_1326 VERTICAL
Avg.	 Site : 03CH11-4V Condition : AVG_BE_54 3m HORN 91200-4F_1326 VERTICAL	Left blank

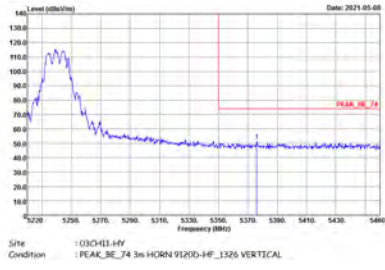
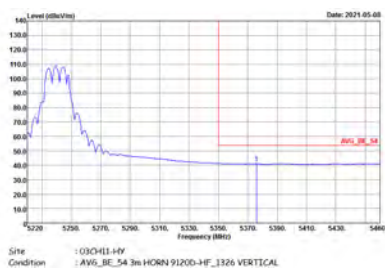
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

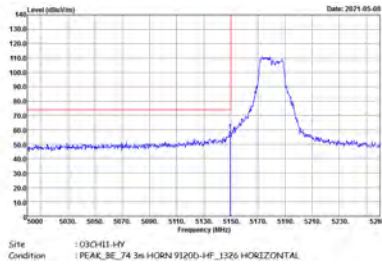
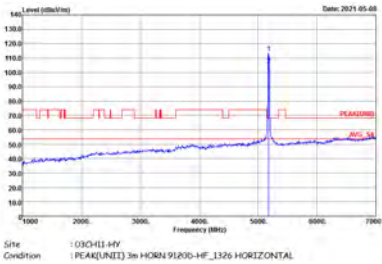
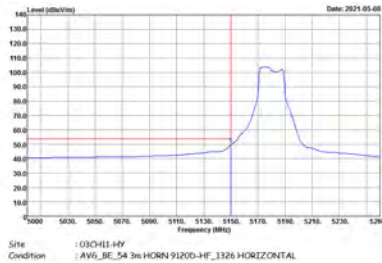


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL	Left blank

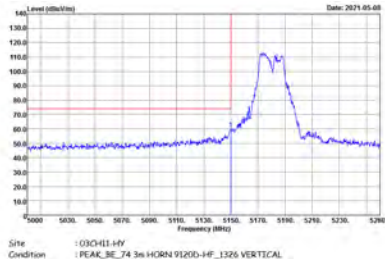
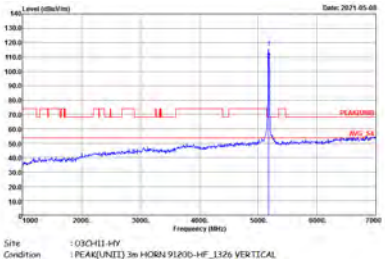
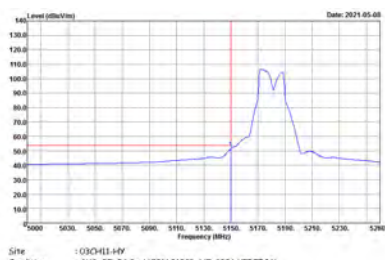
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



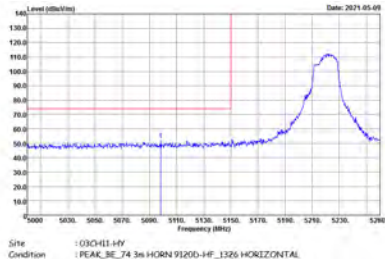
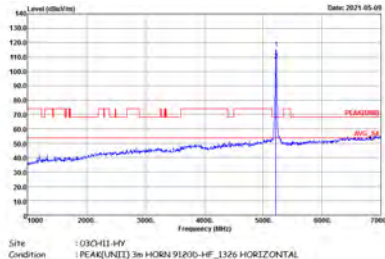
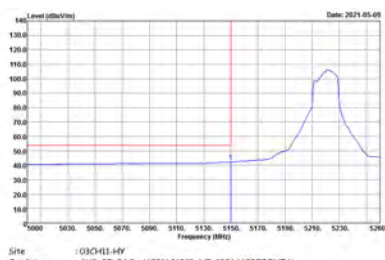
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

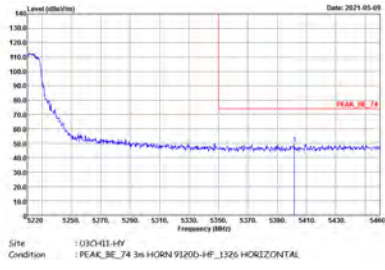
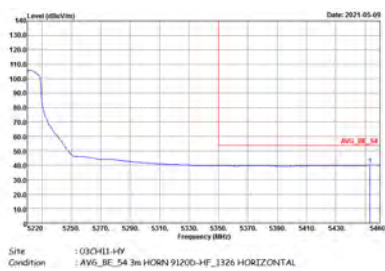


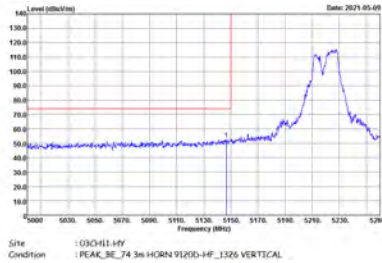
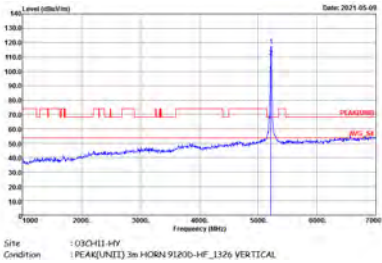
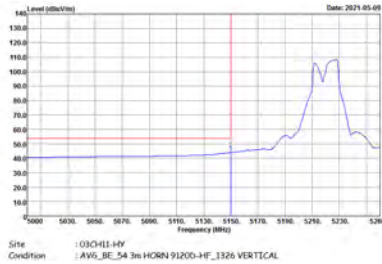
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

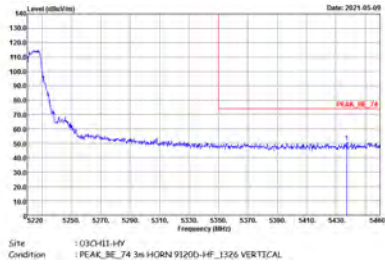
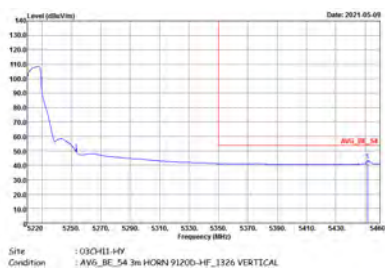


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

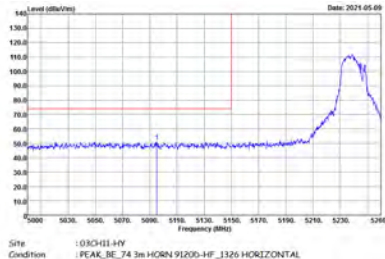
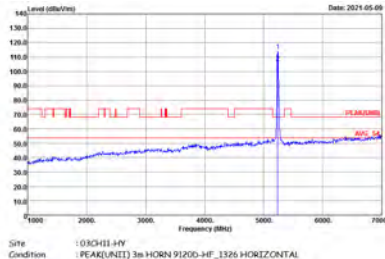
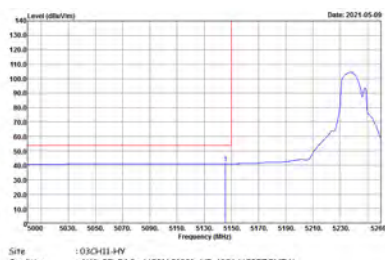


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

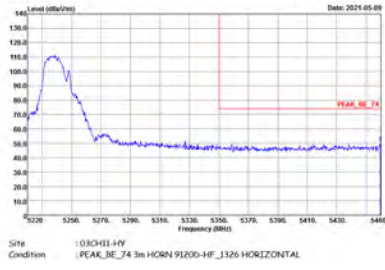
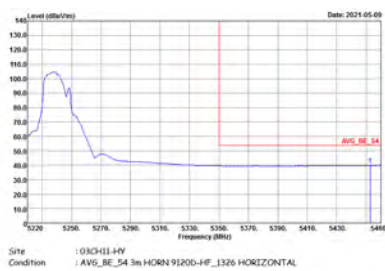
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

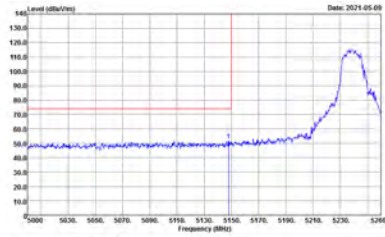
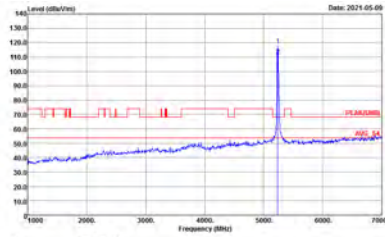
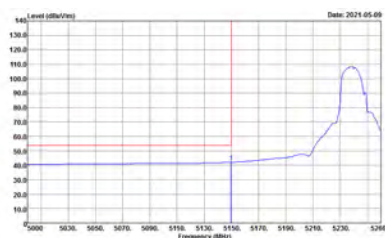


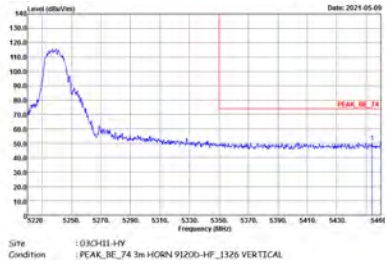
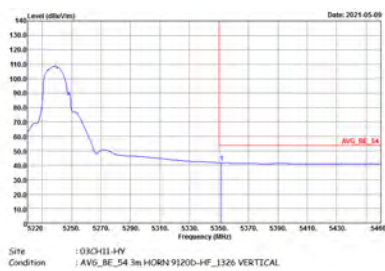
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

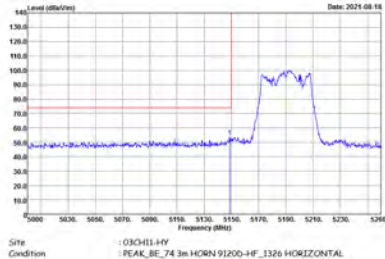
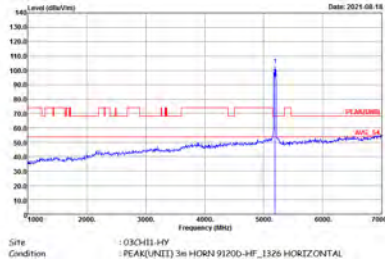
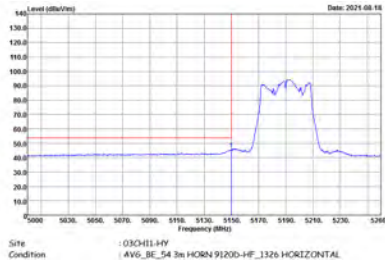


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-4HY Condition : PEAK_BE_74 3m HORN 91200-4HF_1326 VERTICAL	 Site : 03CH11-4HY Condition : PEAK(UNIT) 3m HORN 91200-4HF_1326 VERTICAL
Avg.	 Site : 03CH11-4HY Condition : AVG_BE_54 3m HORN 91200-4HF_1326 VERTICAL	Left blank

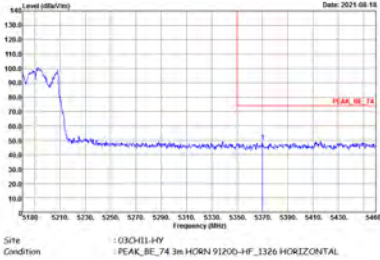
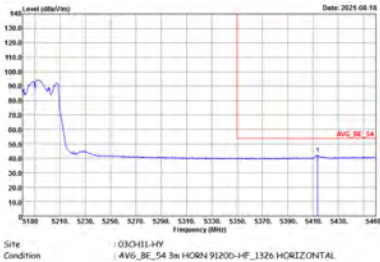
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



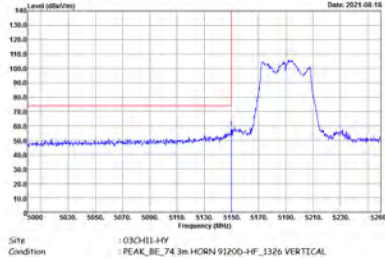
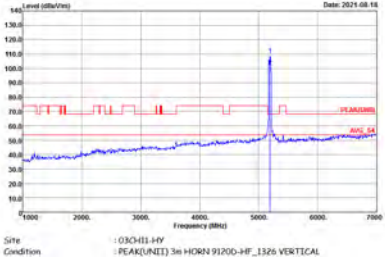
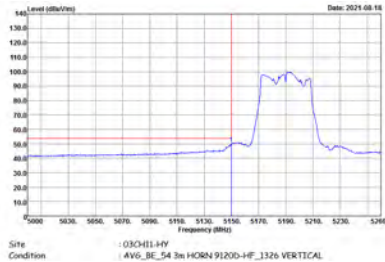
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

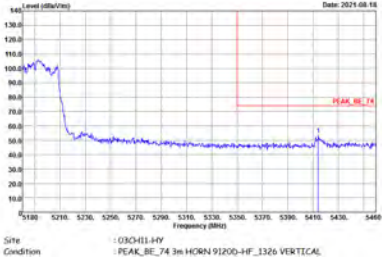
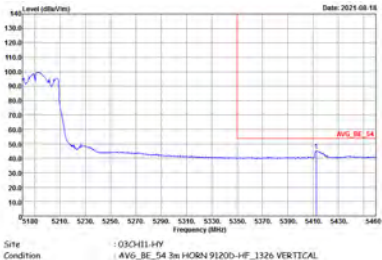


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

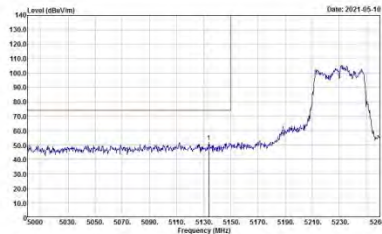
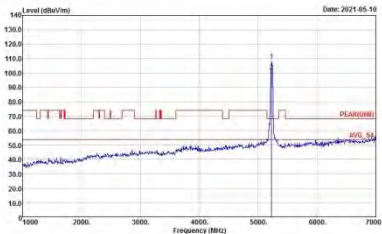
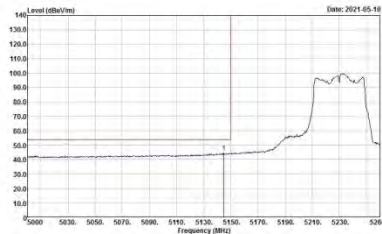


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

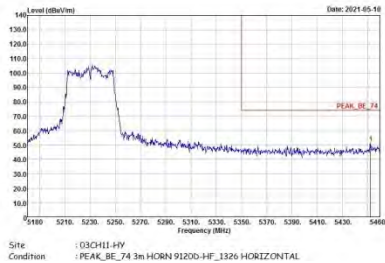
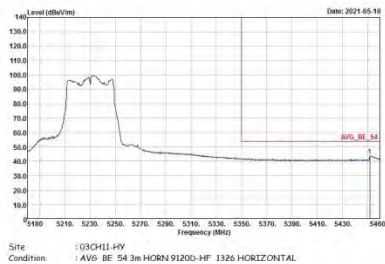


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

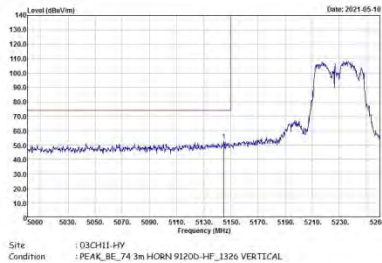
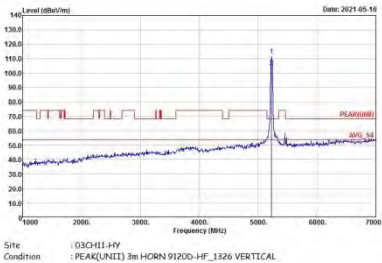
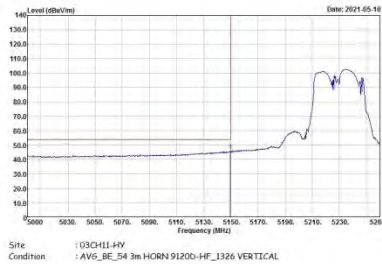


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

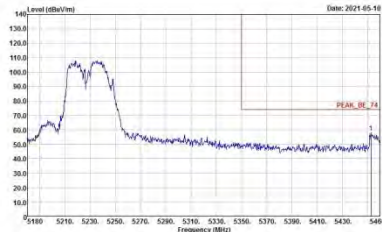
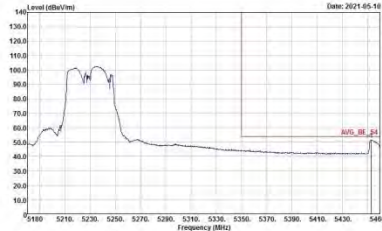


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



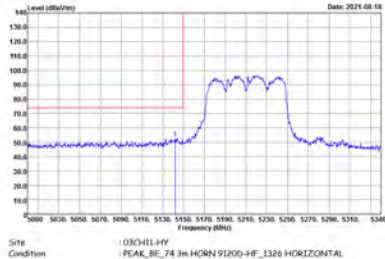
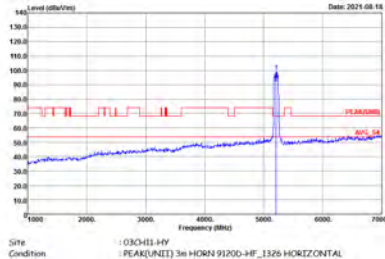
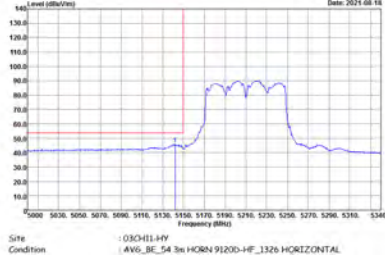
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak	 Site: (03CH11-HY) Condition: :PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL.	 Site: (03CH11-HY) Condition: :PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL.
Avg.	 Site: (03CH11-HY) Condition: :AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL.	Left blank

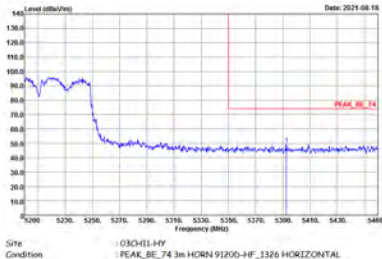
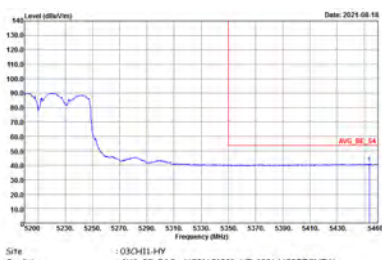


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak	 Site: 03CH11-HY Condition: PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL	Left blank
Avg.	 Site: 03CH11-HY Condition: AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL	Left blank

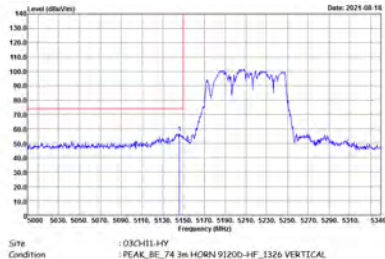
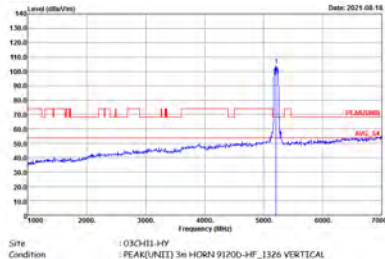
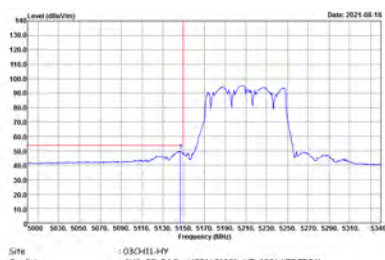


Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

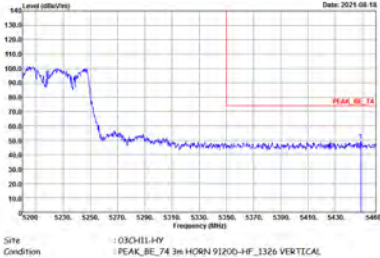
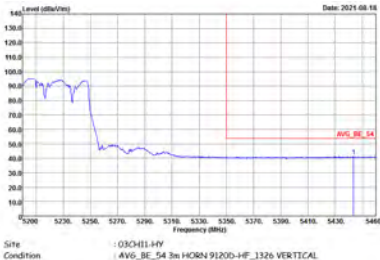
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



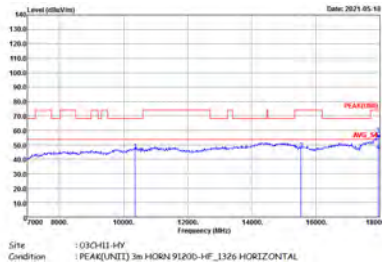
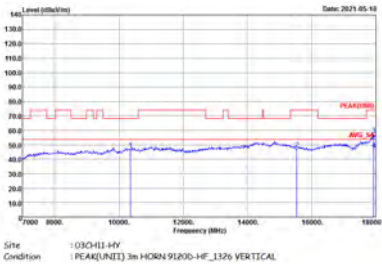
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank



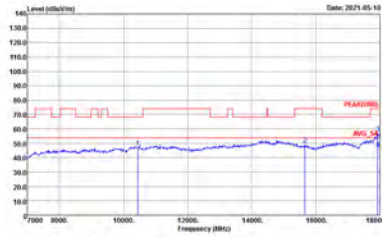
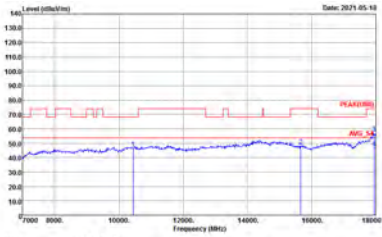
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



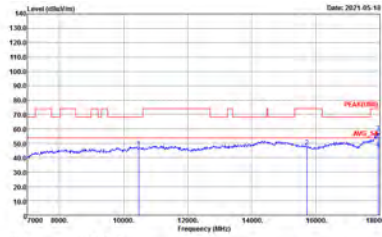
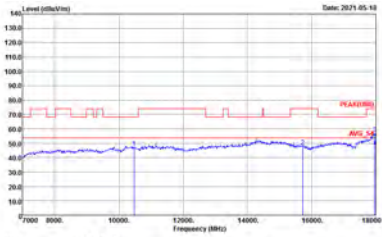
Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		



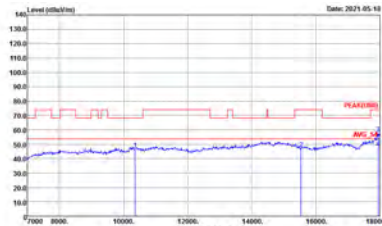
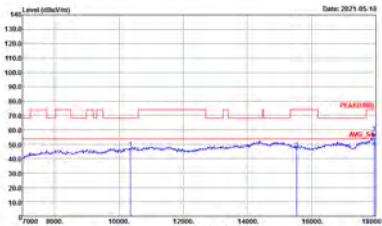
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



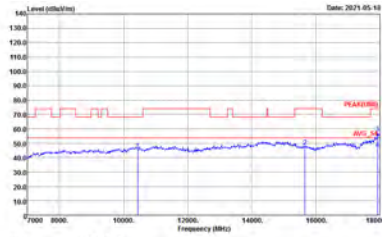
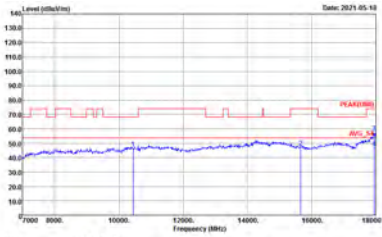
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91R30-HF_132s HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91R30-HF_132s VERTICAL



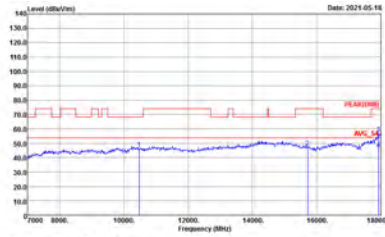
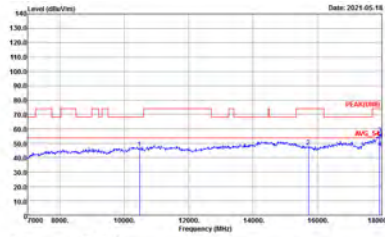
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_132% VERTICAL	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_132% VERTICAL

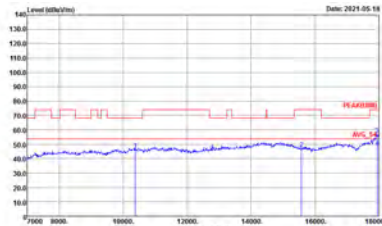
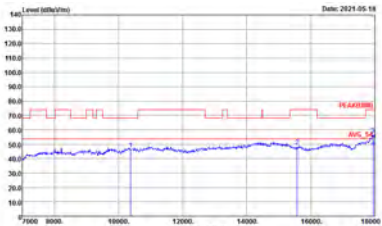


WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

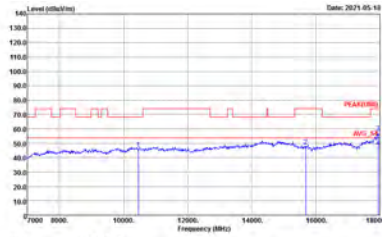
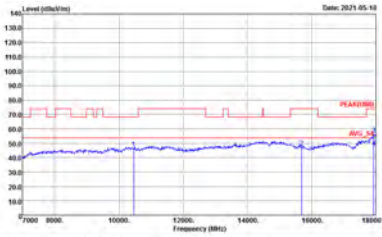


WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4FY Condition : (PEAK(UNIT)) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-4FY Condition : (PEAK(UNIT)) 3m HORN 91200-HF_1326 VERTICAL

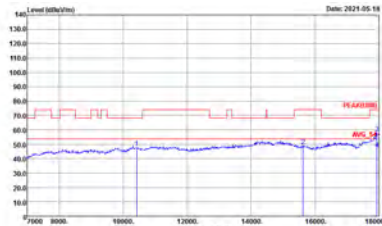
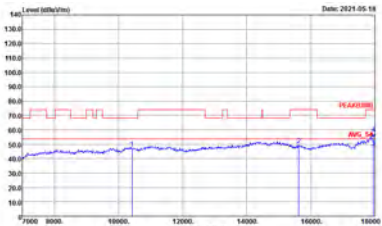
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-1FV Condition : PEAK(UNIT) 3m HORN 91200-4F_1326 VERTICAL	 Site : 03CH11-1FV Condition : PEAK(UNIT) 3m HORN 91200-4F_1326 VERTICAL



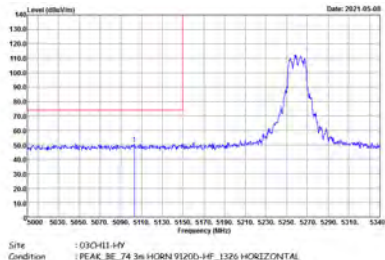
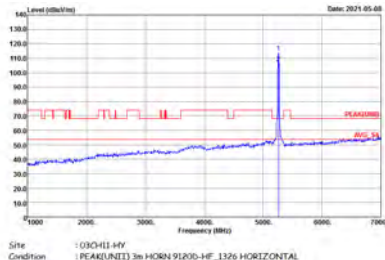
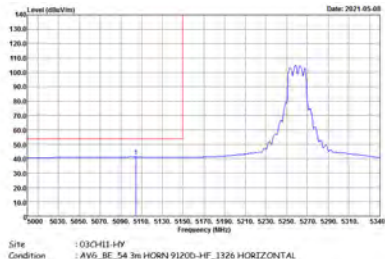
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_132% VERTICAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_132% VERTICAL

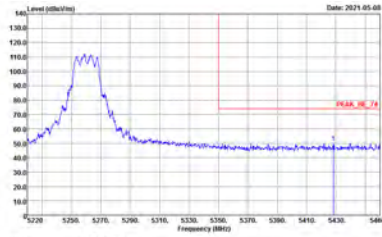
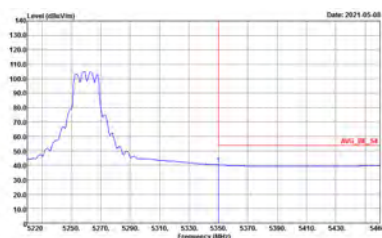
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

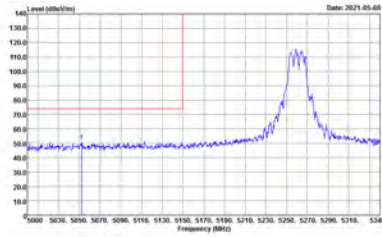
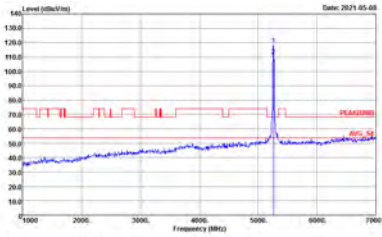
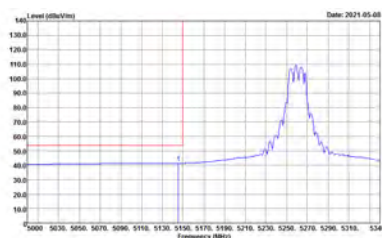
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-1FV Condition : PEAK(AVG) 3m HORN 91200-4F_1326 HORIZONTAL	 Site : 03CH11-1FV Condition : PEAK(AVG) 3m HORN 91200-4F_1326 VERTICAL



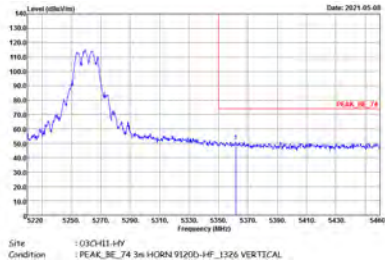
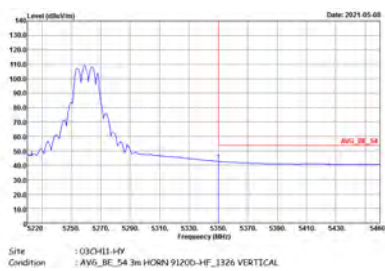
Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

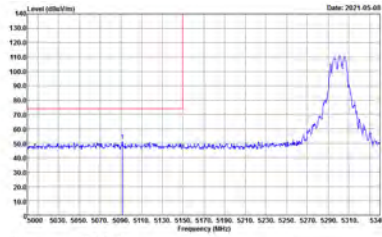
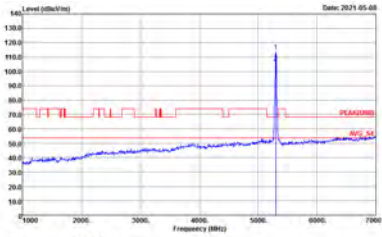
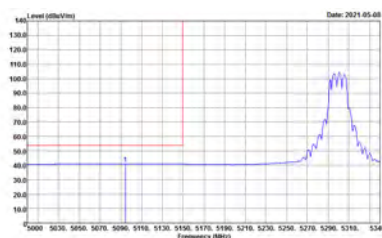
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

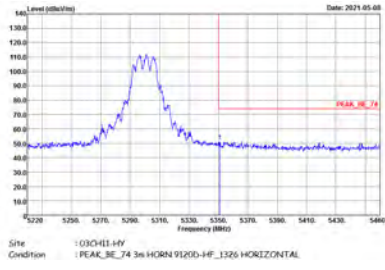
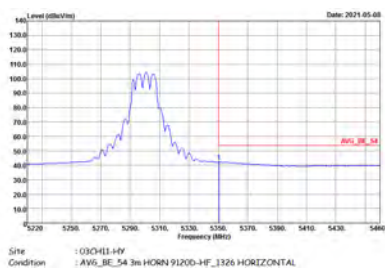
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL	Left blank



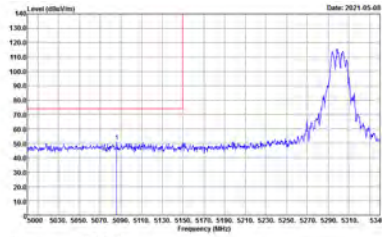
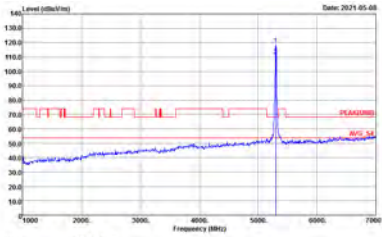
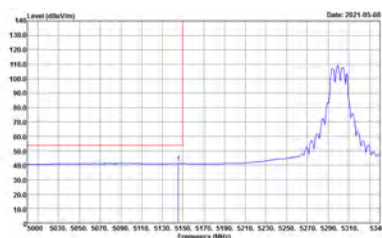
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

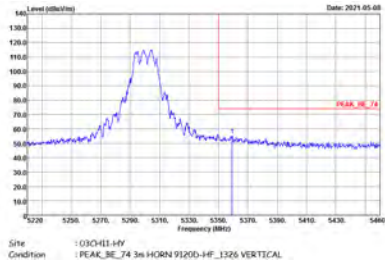
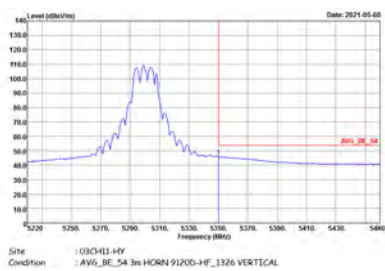


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

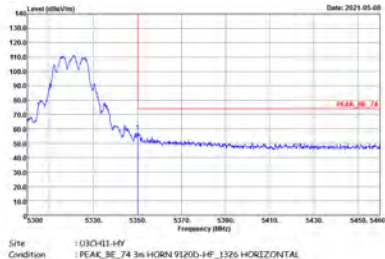
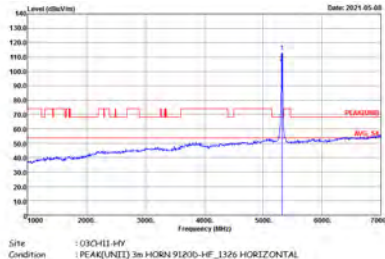
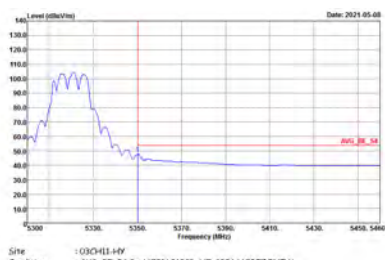


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL	Left blank

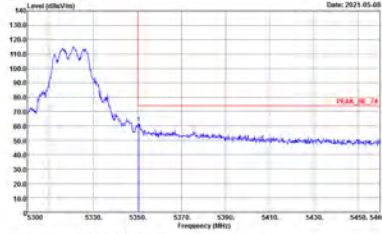
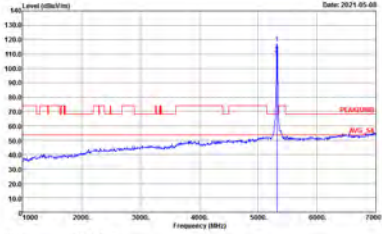
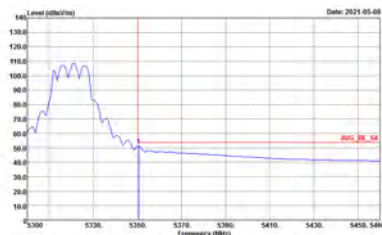


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



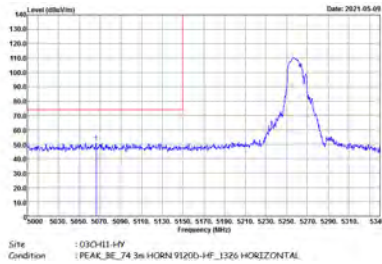
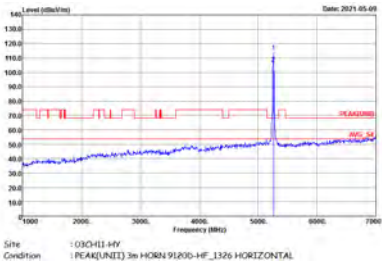
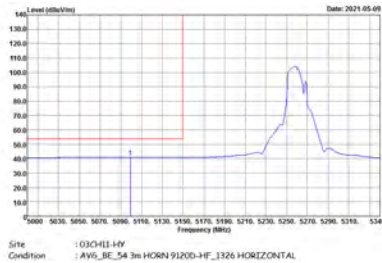
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank



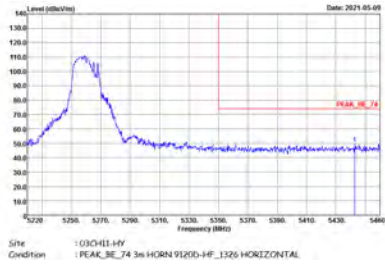
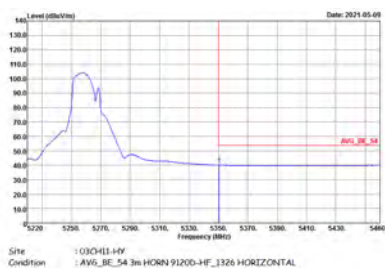
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL	Left blank

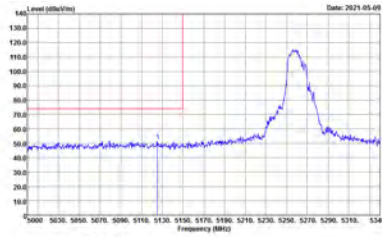
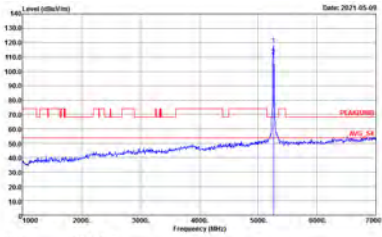
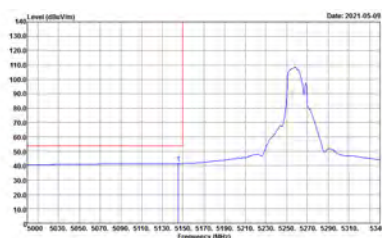


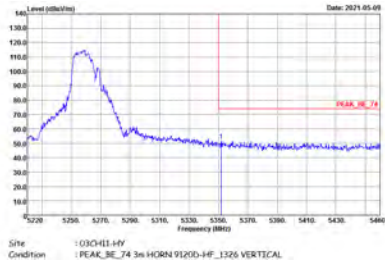
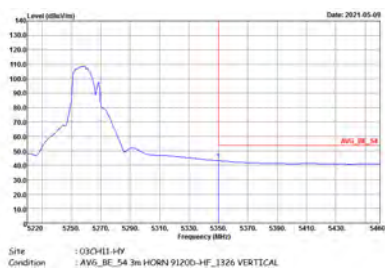
Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

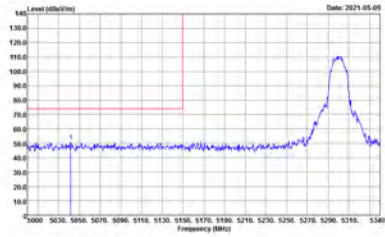
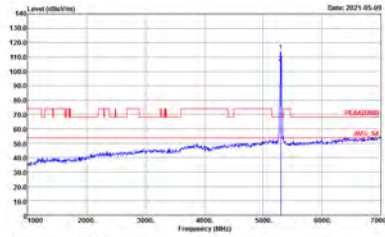
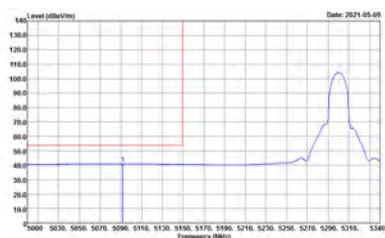


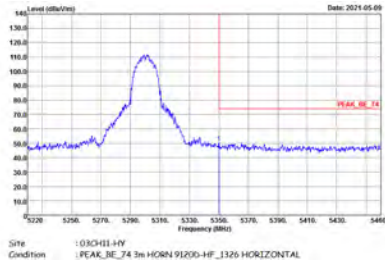
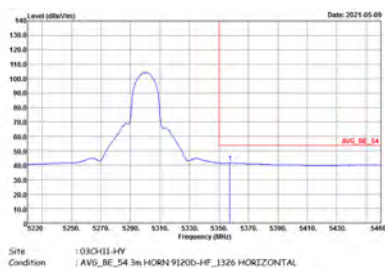
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(FUND) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL	Left blank

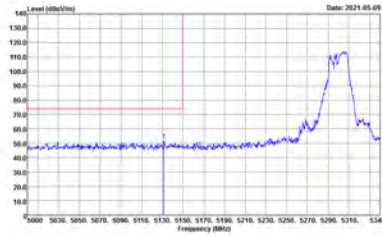
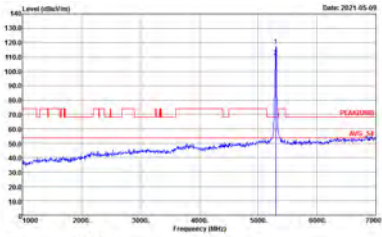
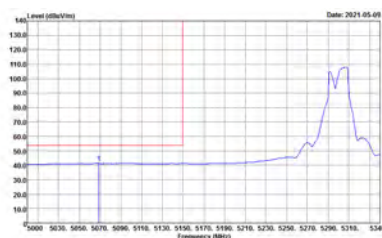
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



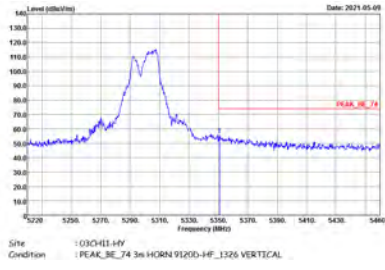
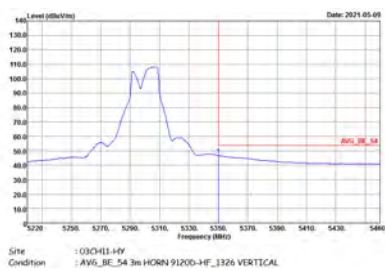
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

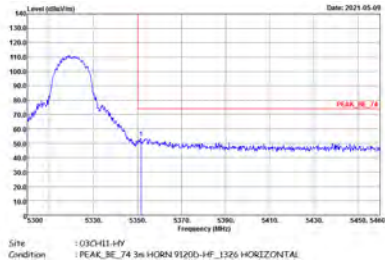
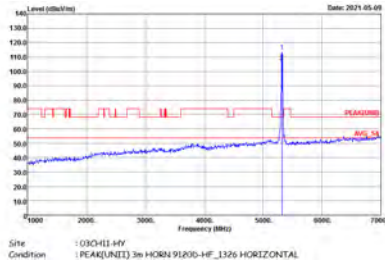
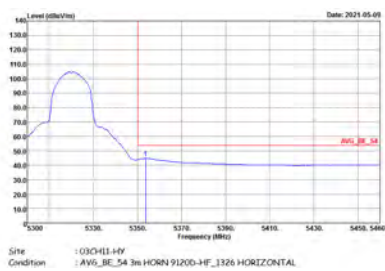


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL	Left blank

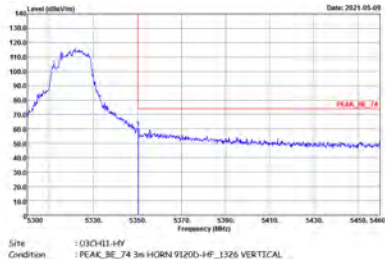
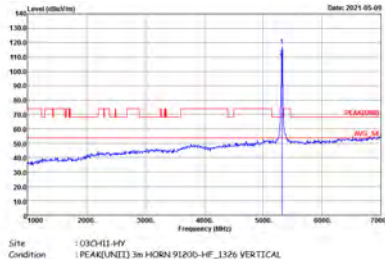
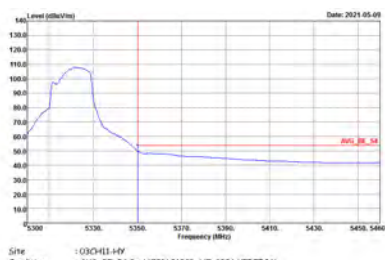


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



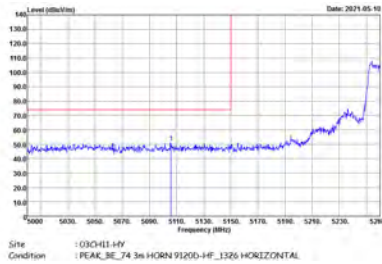
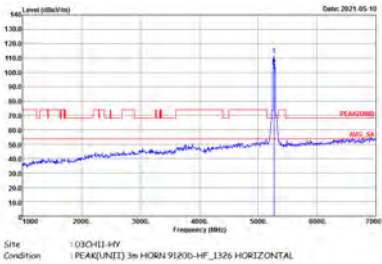
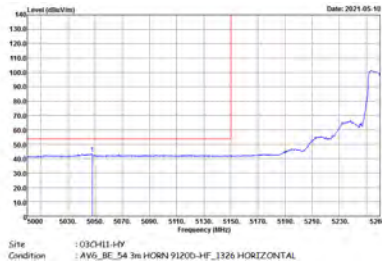
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank



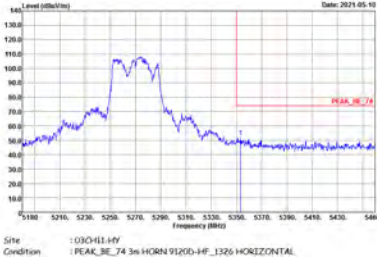
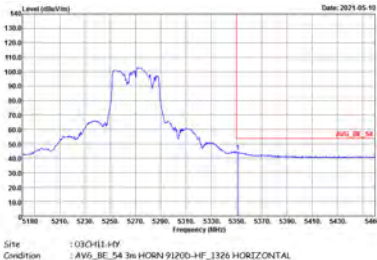
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank



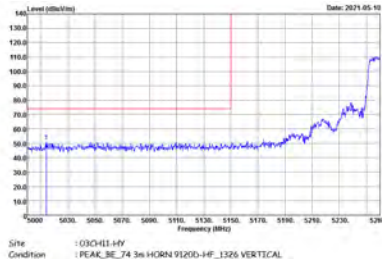
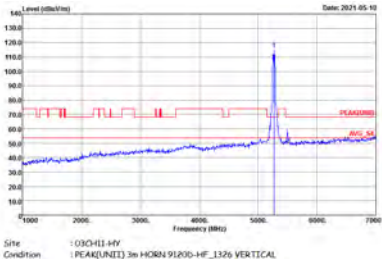
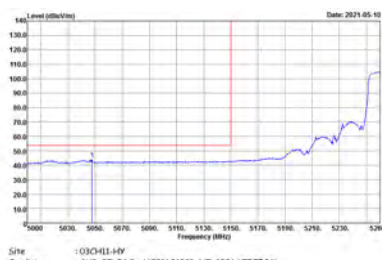
Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

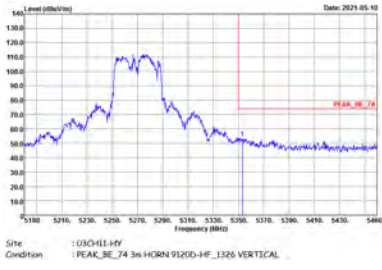
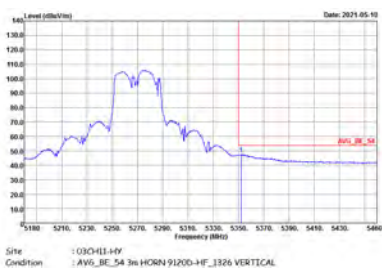
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HV Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL	Left blank



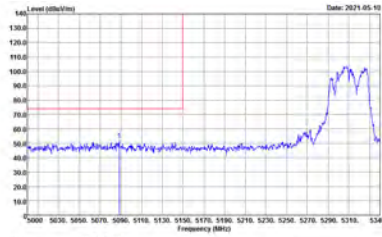
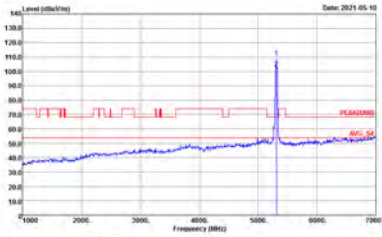
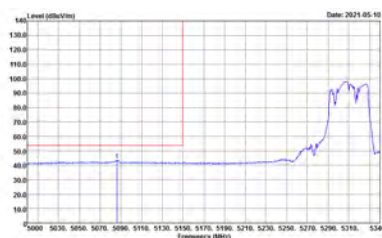
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak	 Site : 030411-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL	Left blank
Avg.	 Site : 030411-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL	Left blank



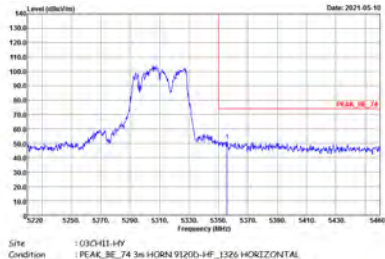
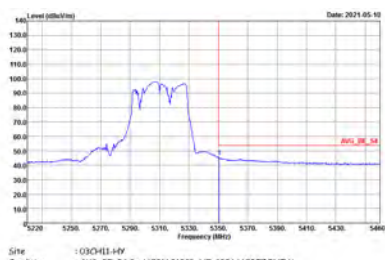
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

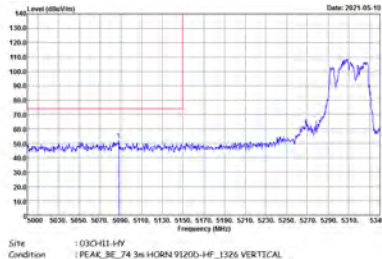
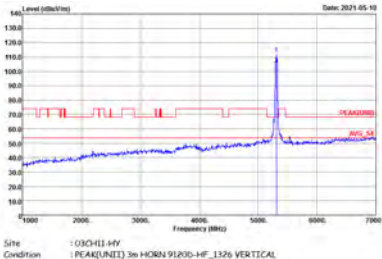
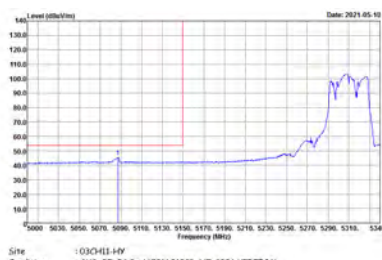


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

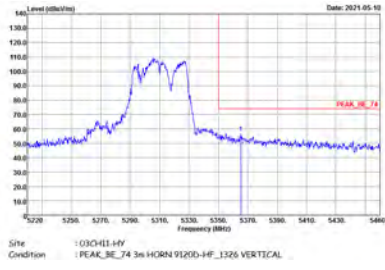
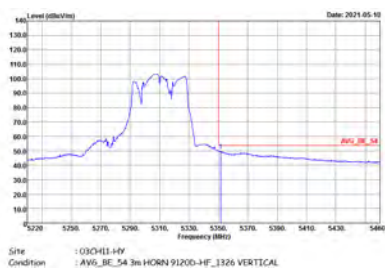


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



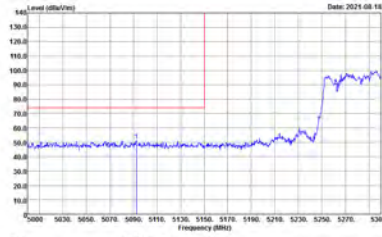
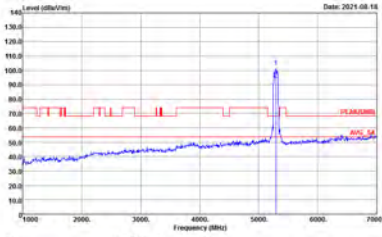
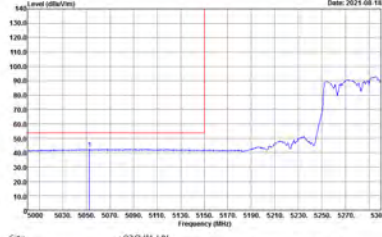
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank



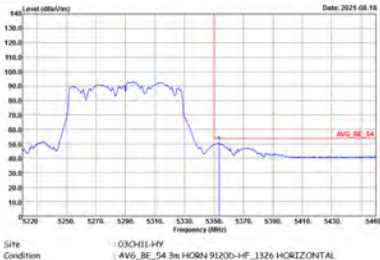
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

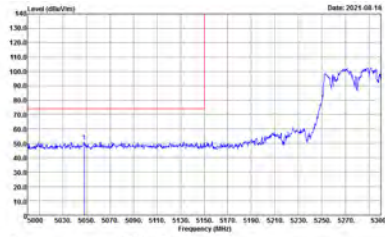
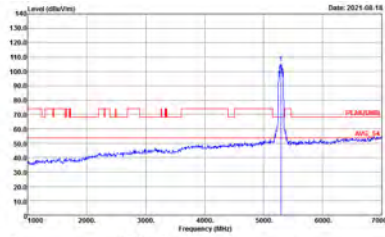
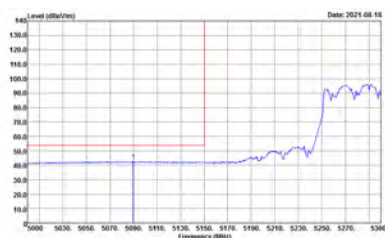


Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

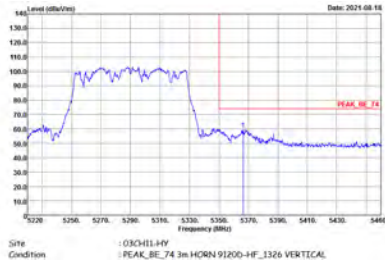
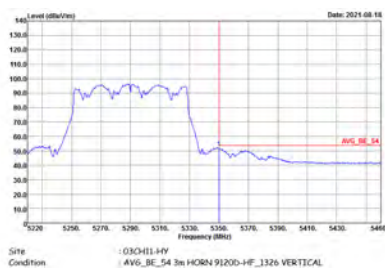
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(FUND) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

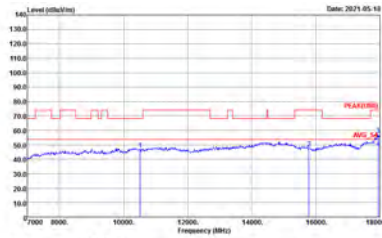
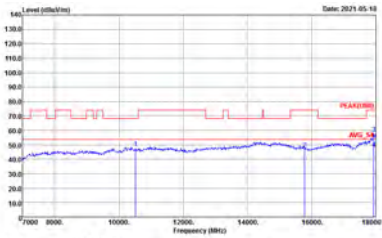
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(FUND) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 VERTICAL	Left blank

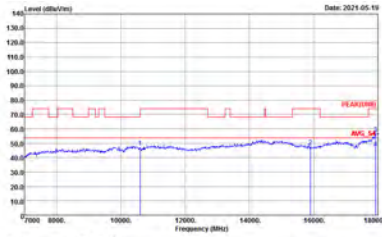
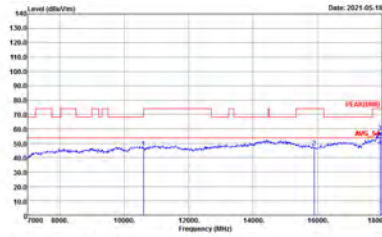


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

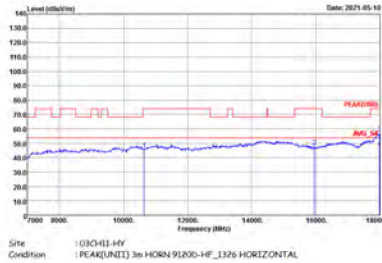
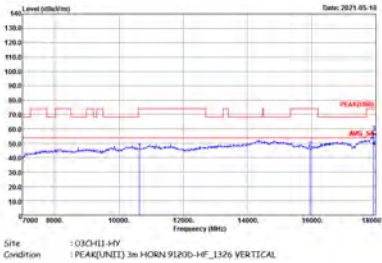


Band 2 - 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CHI-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CHI-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

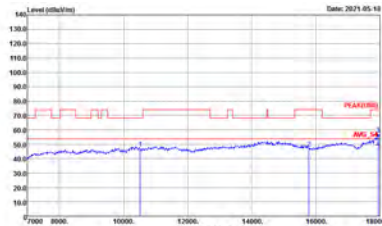
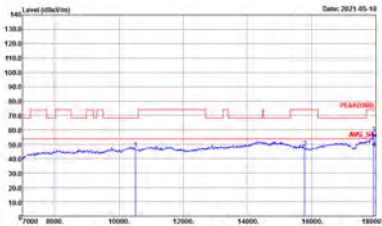
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4FY Condition : (PEAK(UNIT)) 3m HORN P1200-HF_1326 HORIZONTAL	 Site : 03CH11-4FY Condition : (PEAK(UNIT)) 3m HORN P1200-HF_1326 VERTICAL



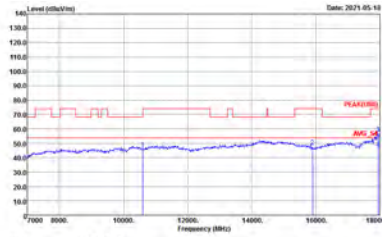
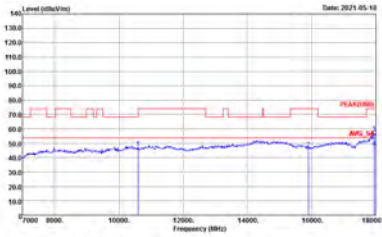
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



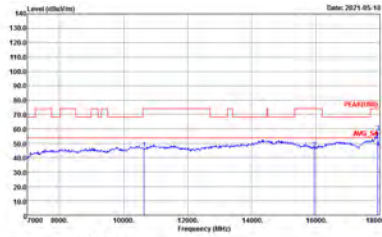
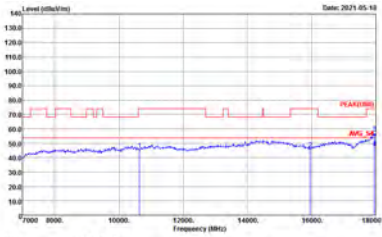
Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

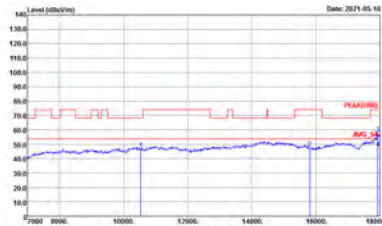
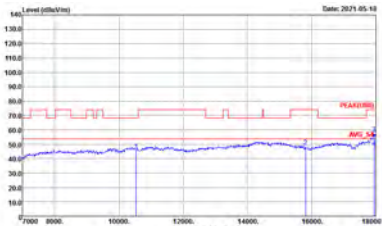


WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

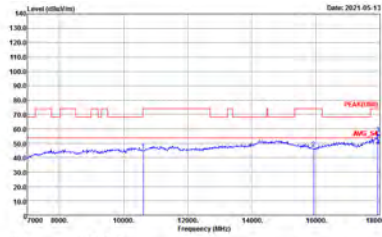
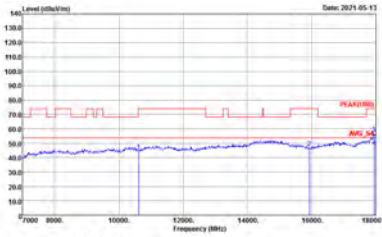


WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

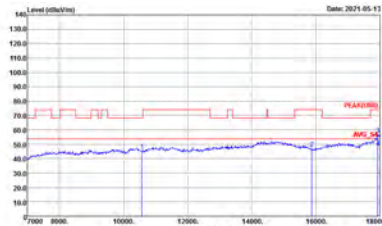
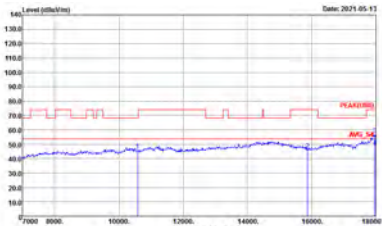
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH54 5270	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH62 5310	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

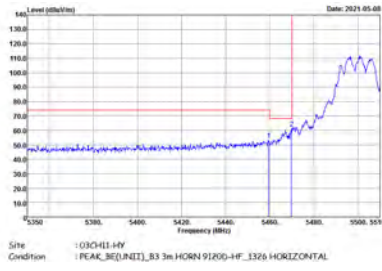
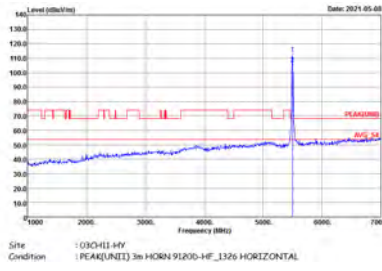
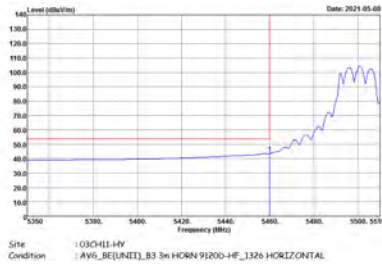


Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

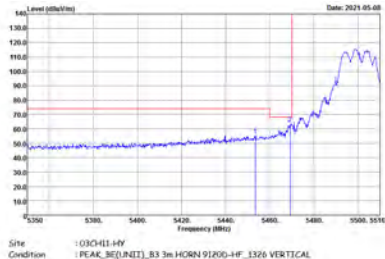
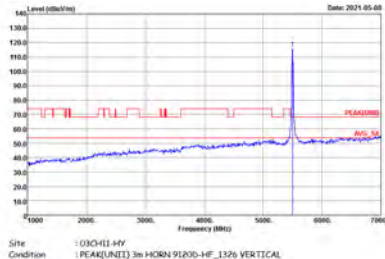
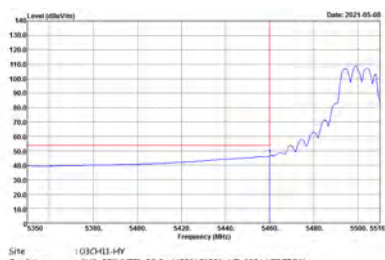
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



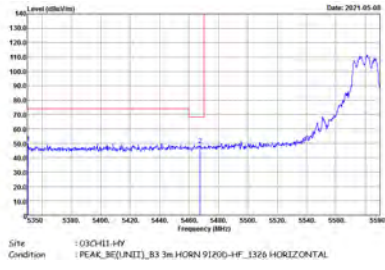
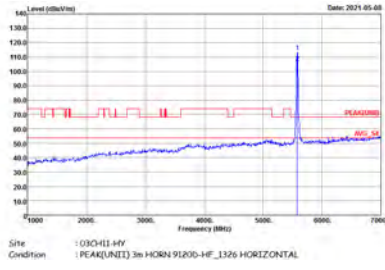
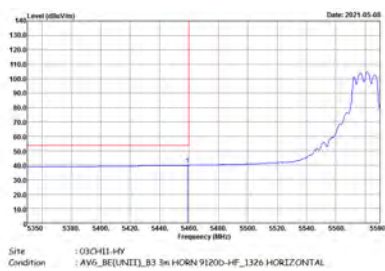
Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : 1 PEAK_BE(UNIT)_B3 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : 1 AVG_BE(UNIT)_B3 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

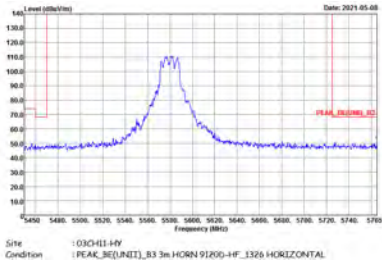


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : 1:PEAK_BE(UNIT)_B3 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : 1:PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : 1:AVG_BE(UNIT)_B3 3m HORN 91200-HF_1326 VERTICAL	Left blank

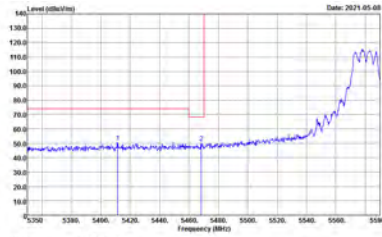
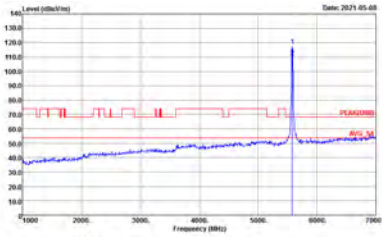
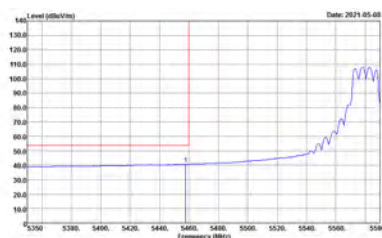


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

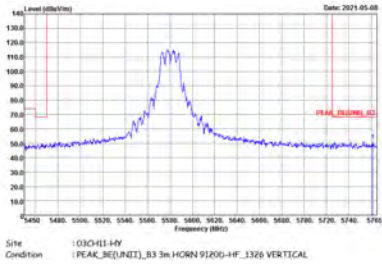


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

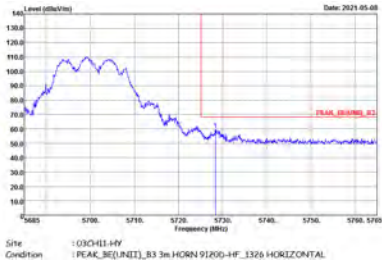
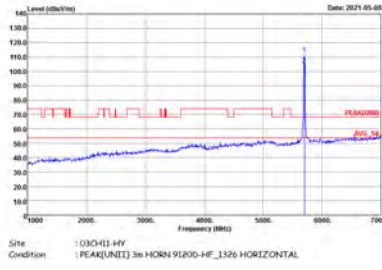


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : 1 PEAK_BE(UNIT)_B3 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : 1 AVG_BE(UNIT)_B3 3m HORN 91200-HF_1326 VERTICAL	Left blank

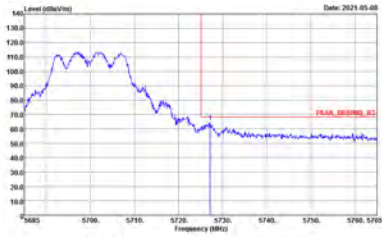
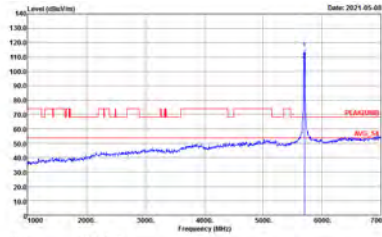


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank



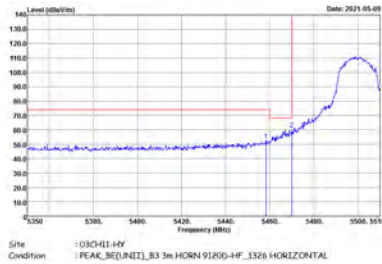
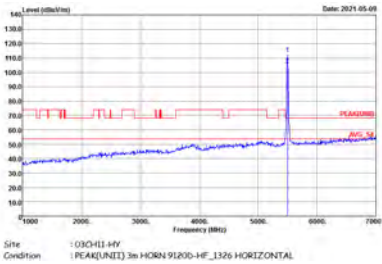
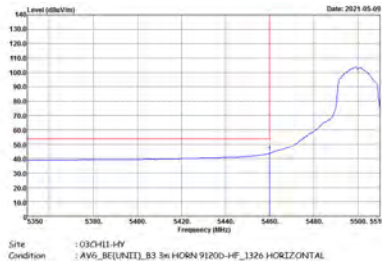
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		



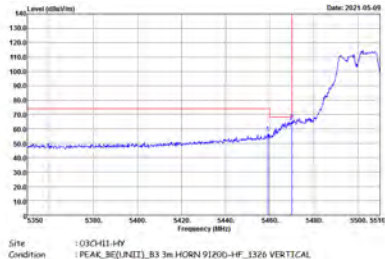
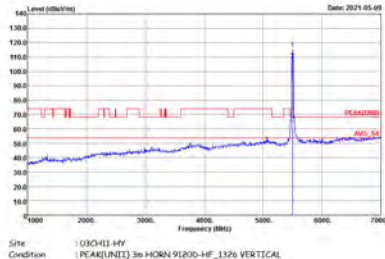
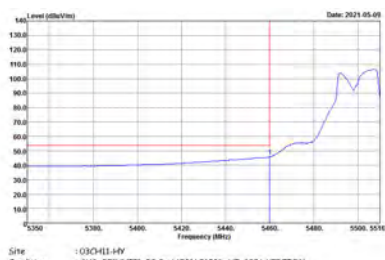
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : 1 PEAK[UNIT1]_B3 3m HORN 91R00-HF_132b VERTICAL	 Site : 03CH11-HY Condition : 1 PEAK[UNIT1]_B3 3m HORN 91R00-HF_132b VERTICAL



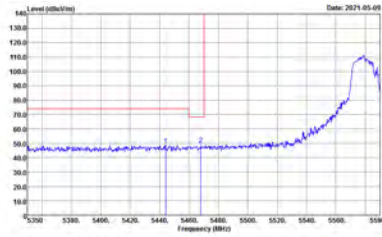
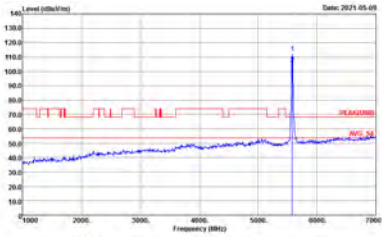
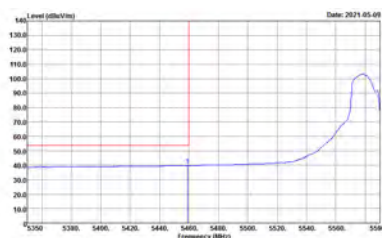
Band 3 5470~5725MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

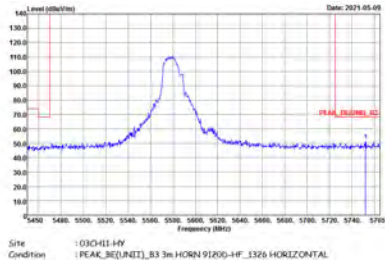


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : 1 PEAK_BE(UNIT)_B3 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : 1 AVG_BE(UNIT)_B3 3m HORN 91200-HF_1326 VERTICAL	Left blank

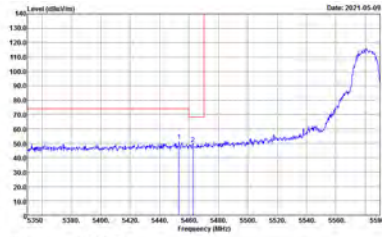
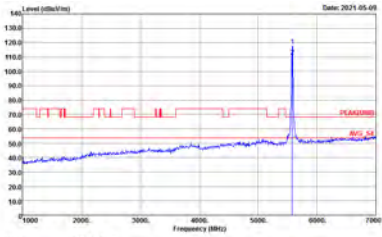
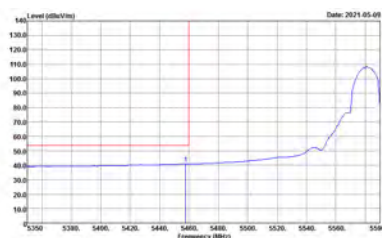


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : 1 PEAK_BE(UNIT)_B3 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : 1 AVG_BE(UNIT)_B3 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

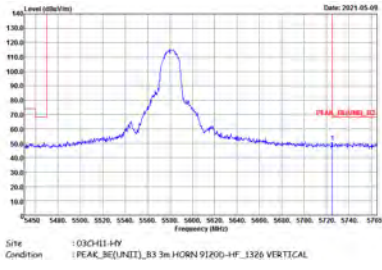


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

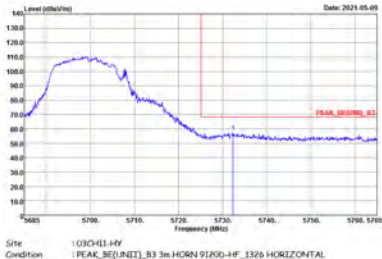
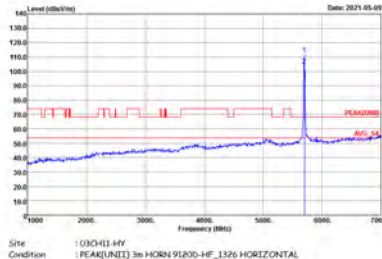


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : 1 PEAK_BE(UNIT)_B3 3m HORN 91200-HF_132b VERTICAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_132b VERTICAL
Avg.	 Site : 03CH11-HY Condition : 1 AVG_BE(UNIT)_B3 3m HORN 91200-HF_132b VERTICAL	Left blank

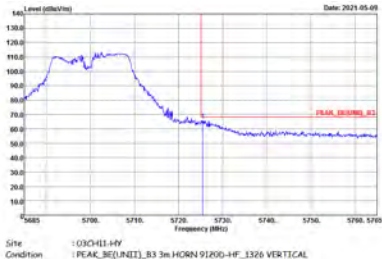
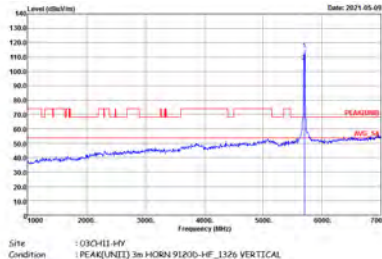


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank



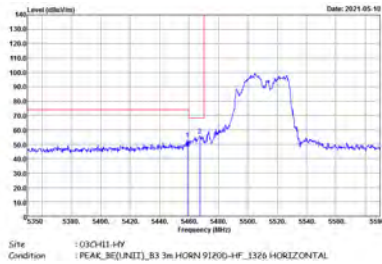
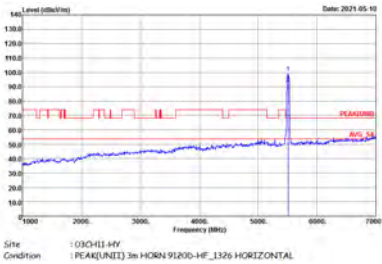
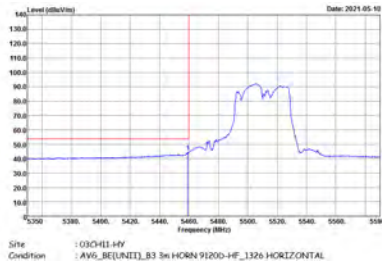
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak	 Site: 03CH11-HY Condition: 1 PEAK[UNIT1]_B3 3m HORN 91R00-HF_1326 HORIZONTAL	 Site: 03CH11-HY Condition: 1 PEAK[UNIT1]_B3 3m HORN 91R00-HF_1326 HORIZONTAL



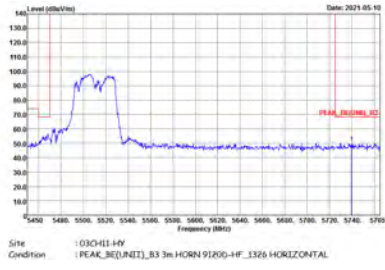
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak	 Site: 03CH11-HY Condition: 1 PEAK[UNIT], 83 3m HORN 91R00-HF_132b VERTICAL	 Site: 03CH11-HY Condition: 1 PEAK[UNIT], 83 3m HORN 91R00-HF_132b VERTICAL

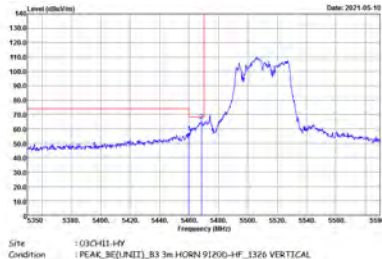
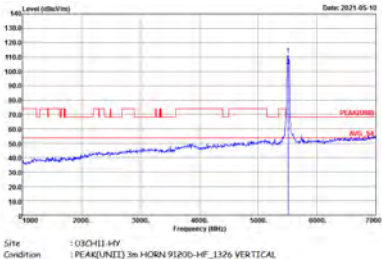
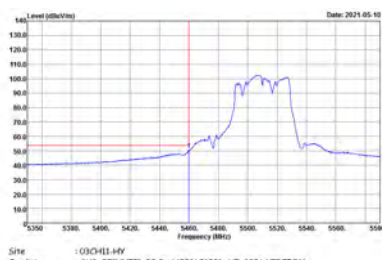


Band 3 5470~5725MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

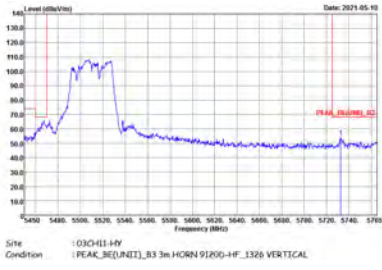
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

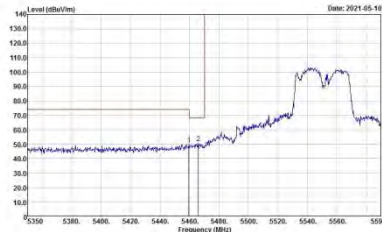
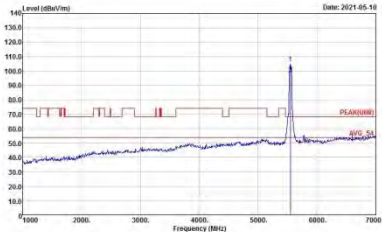
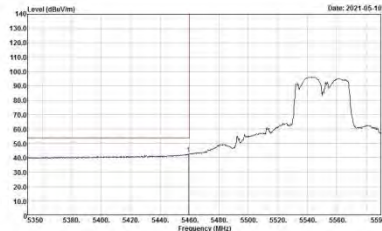


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

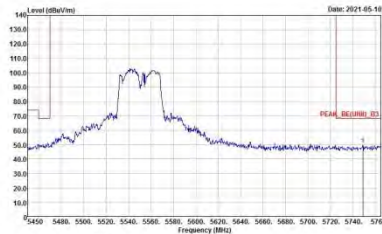
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : 1 PEAK_BE(UNIT)_B3 3m HORN 91200-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : 1 AVG_BE(UNIT)_B3 3m HORN 91200-HF_1326 VERTICAL	Left blank

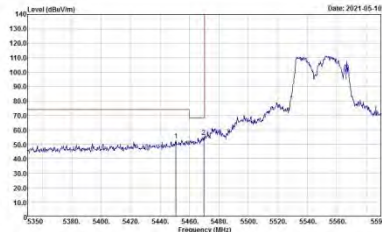
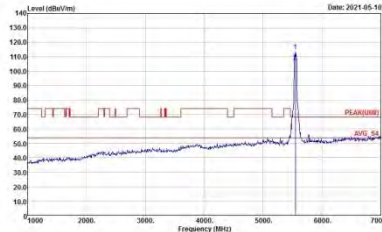
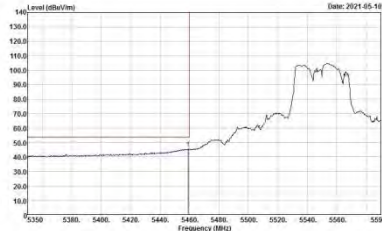


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site: 03CH11-HY Condition: PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF_1326 HORIZONTAL	 Site: 03CH11-HY Condition: PEAK(UNIT1) 3m HORN 9120D-HF_1326 HORIZONTAL
Avg.	 Site: 03CH11-HY Condition: AVG_BE(UNIT1)_B3 3m HORN 9120D-HF_1326 HORIZONTAL	Left blank

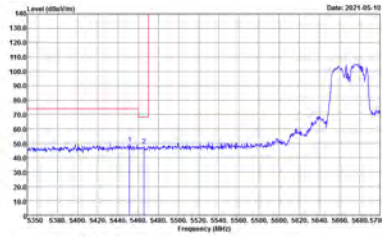
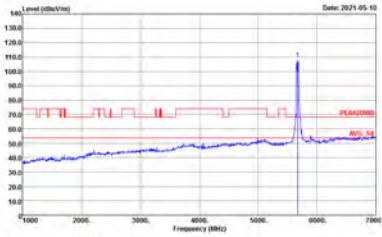
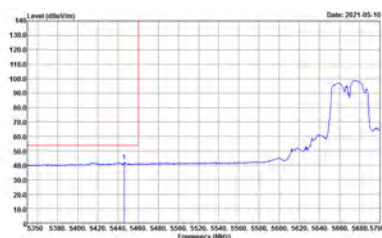


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site: 03CH11-HY Condition: PEAK_BE(UNIT1)_B3 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

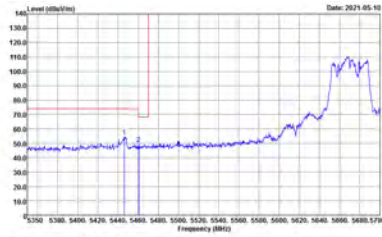
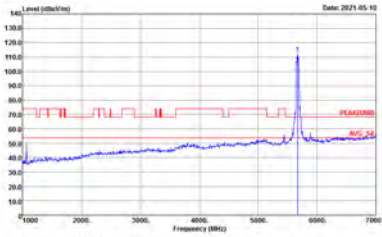
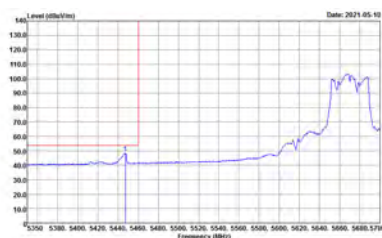


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
Peak	 Site: 03CH11-HY Condition: PEAK_BE(UNIT)_B3 3m HORN 91200-HF_1326 VERTICAL	Left blank

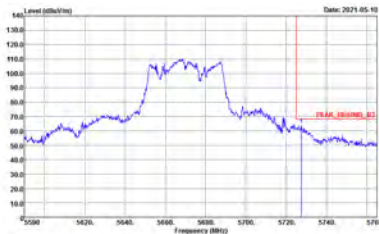
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF_1326 HORIZONTAL	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

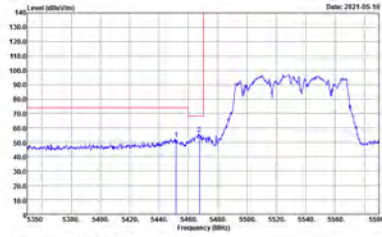
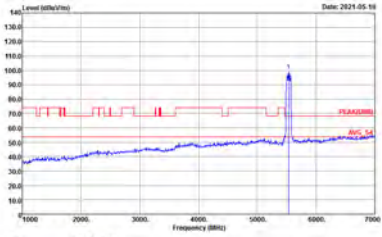
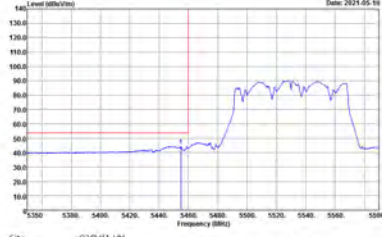
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : 1:PEAK_BE(UNIT)_B3 3m HORN 9120D-HF_132b VERTICAL	 Site : 03CH11-HY Condition : 1:PEAK(UNIT) 3m HORN 9120D-HF_132b VERTICAL
Avg.	 Site : 03CH11-HY Condition : 1:AVG_BE(UNIT)_B3 3m HORN 9120D-HF_132b VERTICAL	Left blank



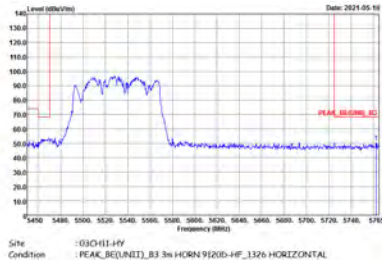
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 030411-HY Condition : PEAK_MEANED_82 3m HORN 91200-HF_3326 VERTICAL	Left blank

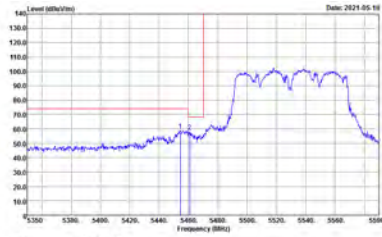
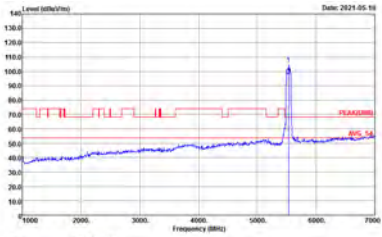
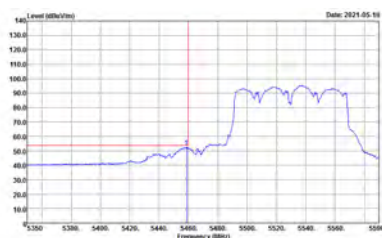


Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

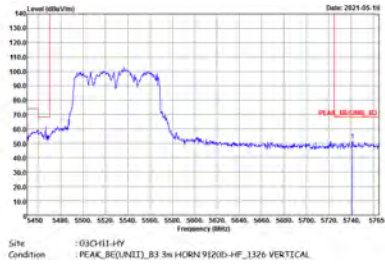
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-1F Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-4F_1326 HORIZONTAL	 Site : 03CH11-1F Condition : PEAK(UNIT) 3m HORN 9120D-4F_1326 HORIZONTAL
Avg.	 Site : 03CH11-1F Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-4F_1326 HORIZONTAL	Left blank

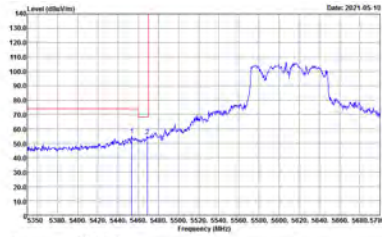
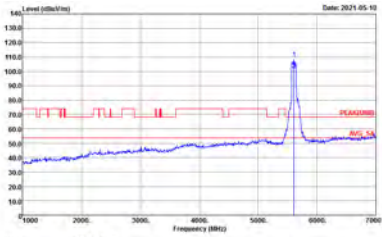
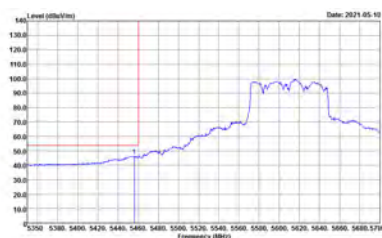


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-4F Condition : :PEAK_BE(UNIT)_B3 3m HORN 9120D-4F_132% VERTICAL	 Site : 03CH11-4F Condition : :PEAK(UNIT) 3m HORN 9120D-4F_132% VERTICAL
Avg.	 Site : 03CH11-4F Condition : :AVG_BE(UNIT)_B3 3m HORN 9120D-4F_132% VERTICAL	Left blank

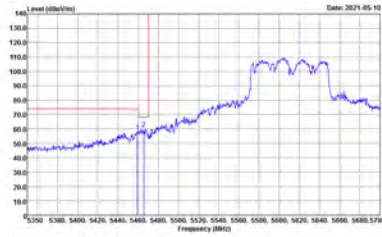
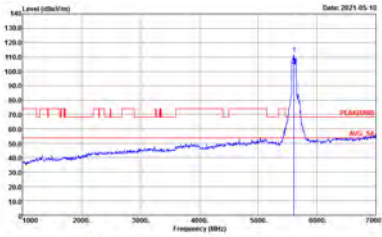
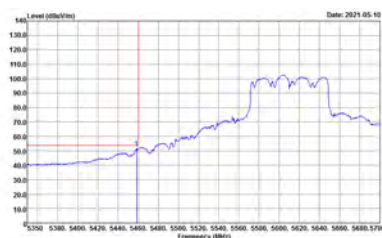


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

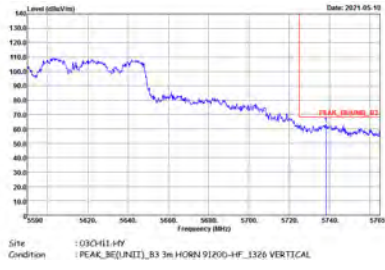
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120G-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120G-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120G-HF_1326 HORIZONTAL	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

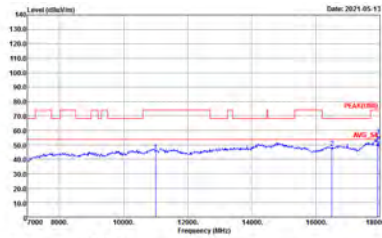
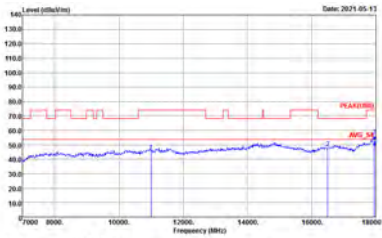
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : 1:PEAK_BE(UNIT)_B3 3m HORN 9120D-HF_132b VERTICAL	 Site : 03CH11-HY Condition : 1:PEAK(UNIT) 3m HORN 9120D-HF_132b VERTICAL
Avg.	 Site : 03CH11-HY Condition : 1:AVG_BE(UNIT)_B3 3m HORN 9120D-HF_132b VERTICAL	Left blank



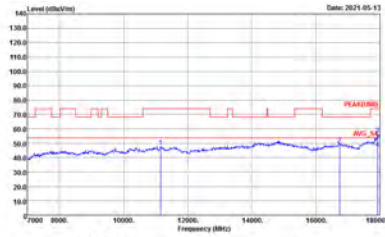
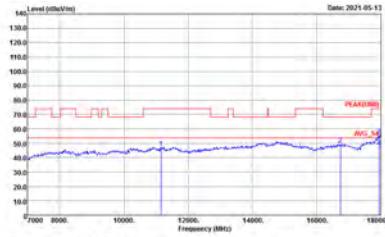
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank



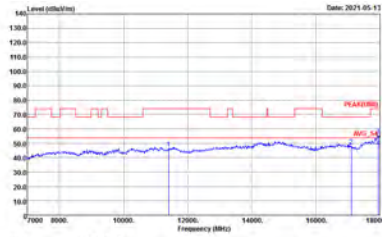
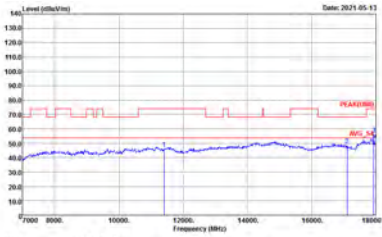
Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



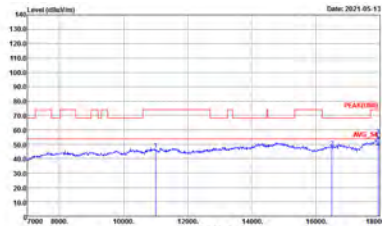
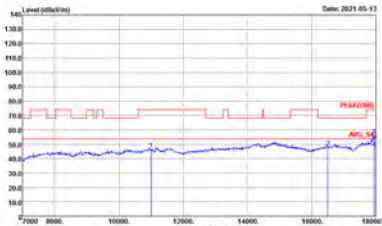
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



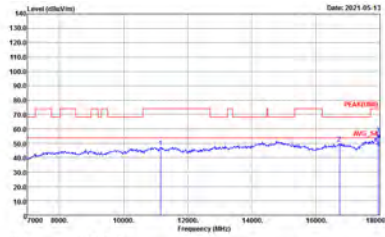
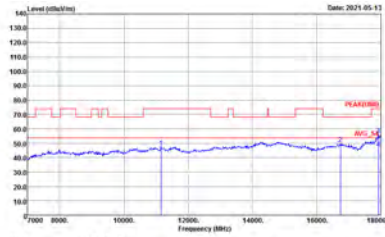
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



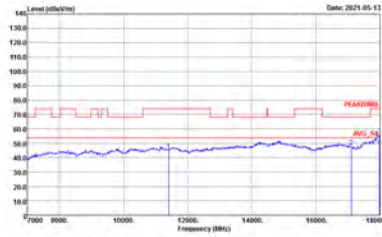
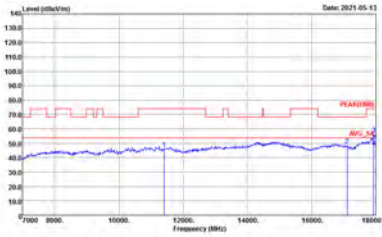
Band 3 5470~5725MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



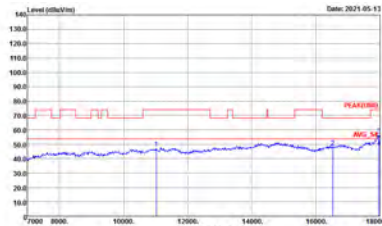
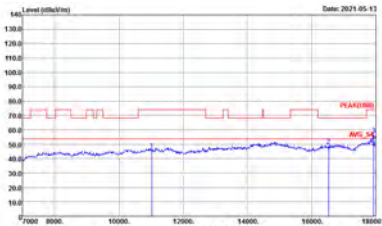
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



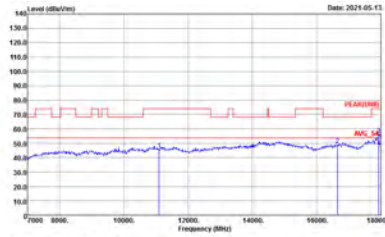
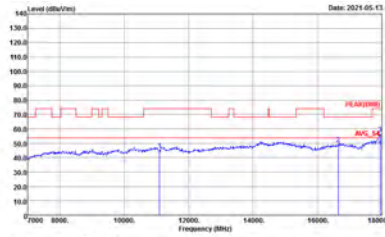
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



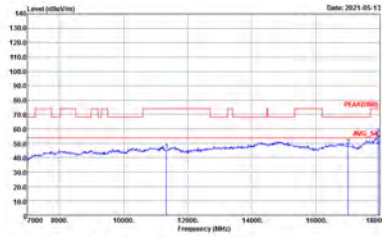
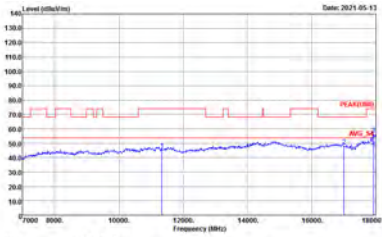
Band 3 5470~5725MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

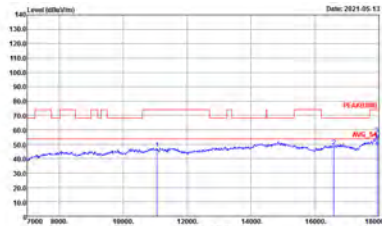
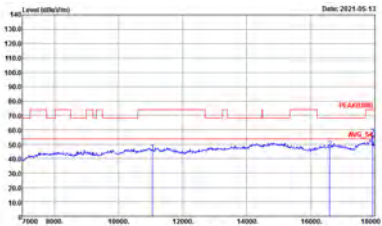


WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : (PEAK(UNIT)) 3m HORN P1200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : (PEAK(UNIT)) 3m HORN P1200-HF_1326 VERTICAL

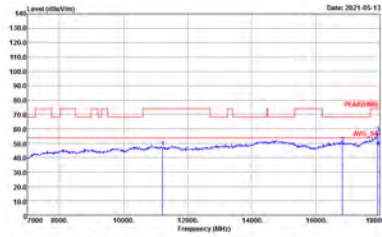
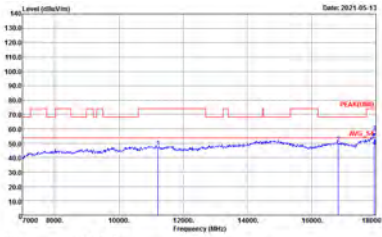


WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

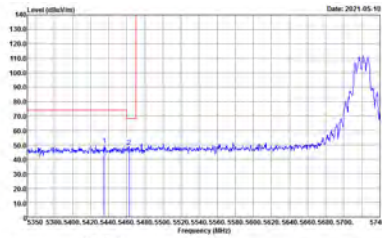
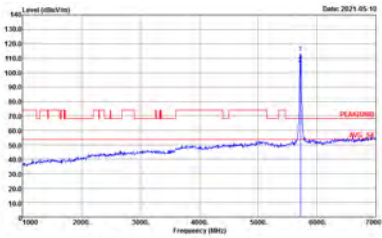
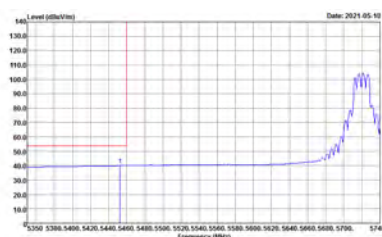
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-1FV Condition : PEAK(AVG) 3m HORN 91200-4F_1326 HORIZONTAL	 Site : 03CH11-1FV Condition : PEAK(AVG) 3m HORN 91200-4F_1326 VERTICAL



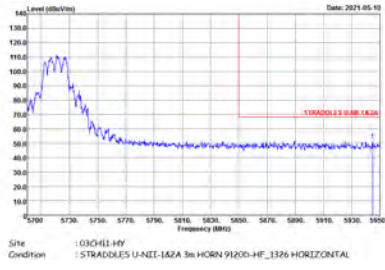
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL



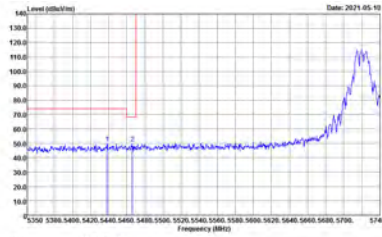
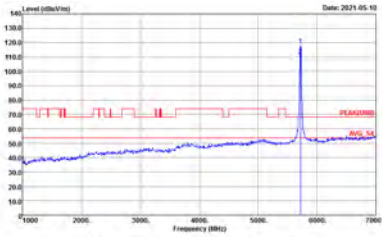
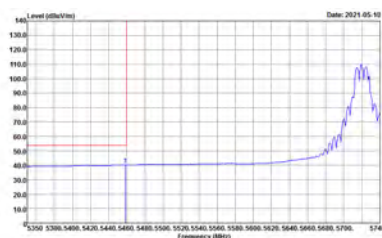
Band 3 - Straddle Channel
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : STRADDLES U-NIT-1A2A 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : U-NIT-1A2A AVERAGE 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

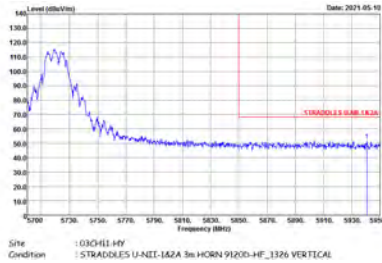


WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
1+2	Horizontal	Fundamental
Peak		Left blank



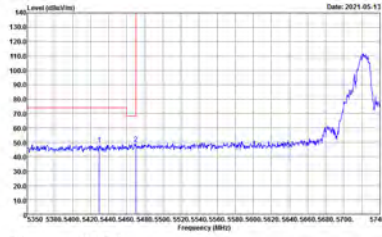
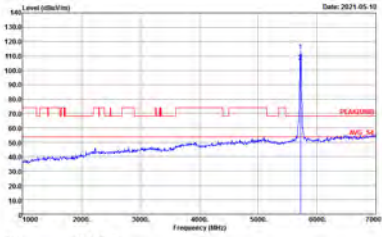
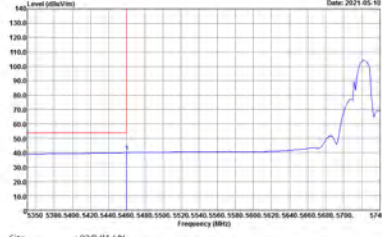
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : STRADDLES U-NIT-1A2A 3m HORN 9120D-HF_132b VERTICAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF_132b VERTICAL
Avg.	 Site : 03CH11-HY Condition : U-NIT-1A2A AVERAGE 3m HORN 9120D-HF_132b VERTICAL	Left blank



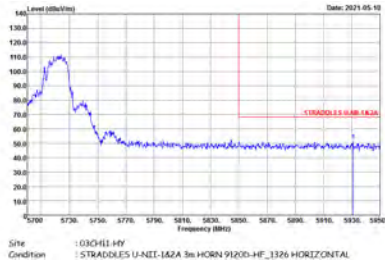
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 030411-MY Condition : STRADOLUS U-NET-1A2A 3m HORN 9120D-HF_1326 VERTICAL	Left blank



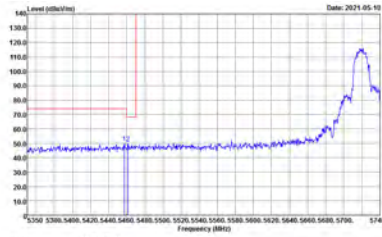
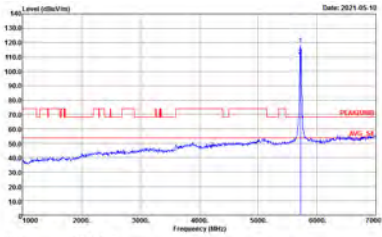
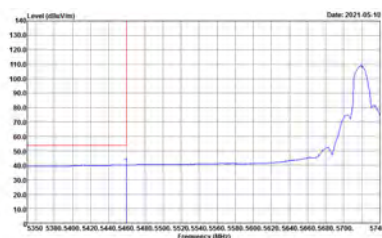
Band 3 – Straddle Channel
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT20 CH144 5720MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : STRADDLES U-NIT-1A2A 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : U-NIT-1A2A AVERAGE 3m HORN 91200-HF_1326 HORIZONTAL	Left blank

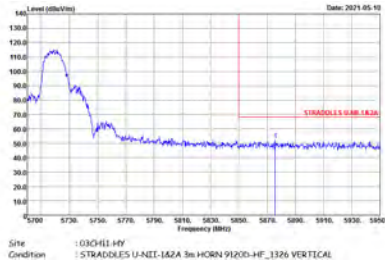


WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT20 CH144 5720MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank



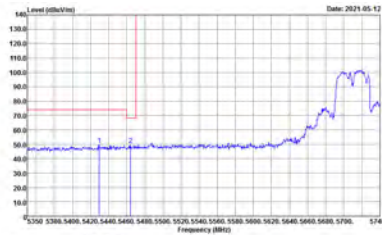
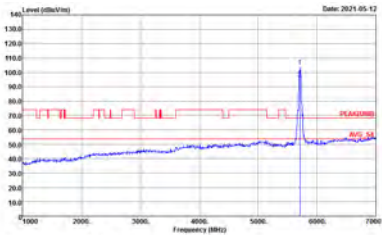
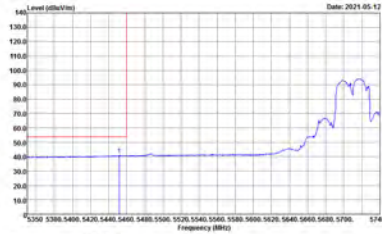
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT20 CH144 5720MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : STRADOLUS U-NIT-1A2A 3m HORN 9120D-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : U-NIT-1A2A AVERAGE 3m HORN 9120D-HF_1326 VERTICAL	Left blank



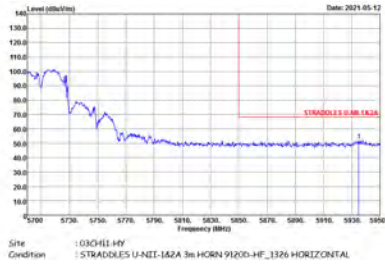
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT20 CH144 5720MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

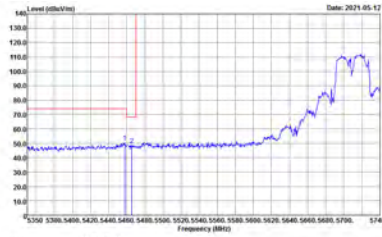
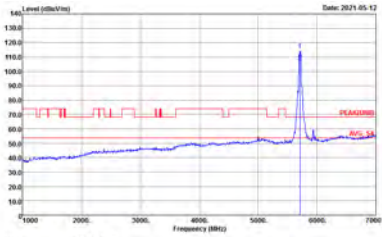
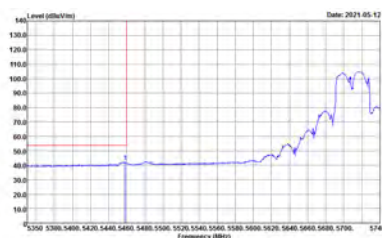


Band 3 – Straddle Channel
WIFI 802.11ac VHT40 (Band Edge @ 3m)

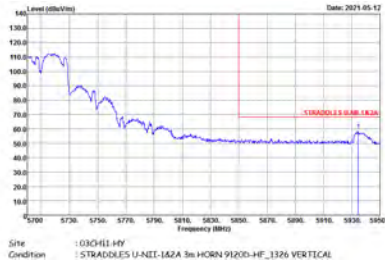
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT40 CH142 5710MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : STRADDLES U-NIT-1A2A 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : U-NIT-1A2A AVERAGE 3m HORN 91200-HF_1326 HORIZONTAL	Left blank



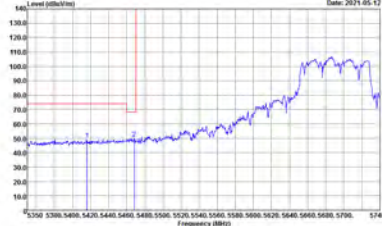
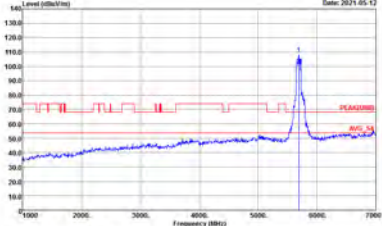
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT40 CH142 5710MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 030411-MY Condition : STRADDLES U-NIT-1A2A 3m HORN 9120D-HF_1326 HORIZONTAL	Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT40 CH142 5710MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : STRADDOLES U-NIT-1A2A 3m HORN 9120D-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : U-NIT-1A2A AVERAGE 3m HORN 9120D-HF_1326 VERTICAL	Left blank

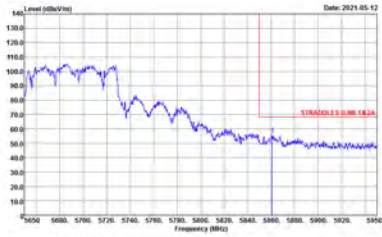


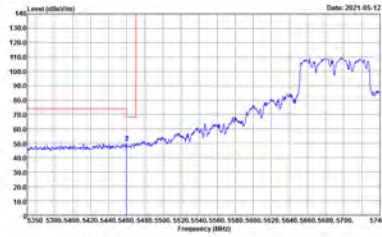
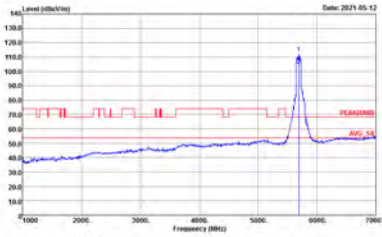
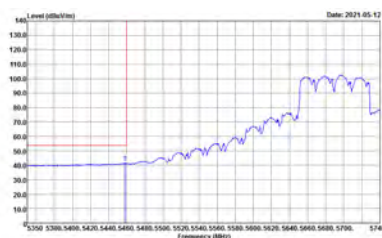
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT40 CH142 5710MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 030411-MY Condition : STRADOLIS U-NET-1A2A 3m HORN 9120D-HF_1326 VERTICAL	Left blank

Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Band Edge @ 3m)

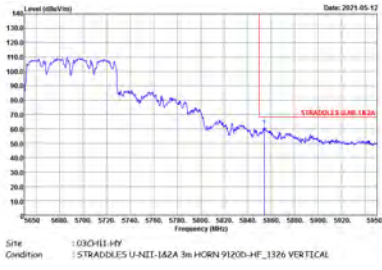
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : STRADDLES U-NIT-1A2A 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH11-HV Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL
Avg.	 Site : 03CH11-HV Condition : U-NIT-1A2A AVERAGE 3m HORN 91200-HF_1326 HORIZONTAL	Left blank



WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 030413-HY Condition : STRADDLES U-NIT-1A2A 3m HORN 9120D-HF_1326 HORIZONTAL	Left blank

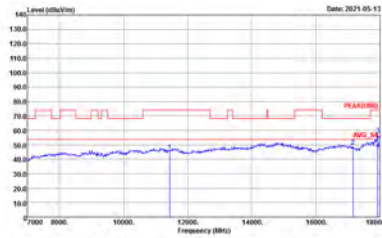
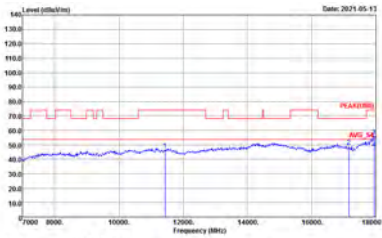
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : STRADOLUS U-NIT-1A2A 3m HORN 9120D-HF_1326 VERTICAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF_1326 VERTICAL
Avg.	 Site : 03CH11-HY Condition : U-NIT-1A2A AVERAGE 3m HORN 9120D-HF_1326 VERTICAL	Left blank



WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

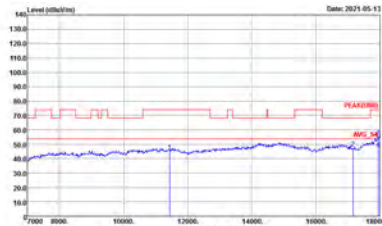
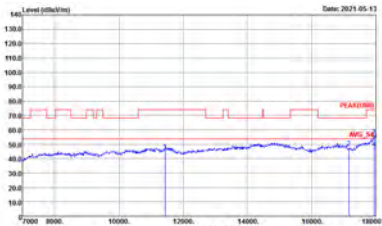


Band 3 - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_132b HORIZONTAL	 Site : 03CH11-HY Condition : 1 PEAK(UNIT) 3m HORN 91200-HF_132b VERTICAL

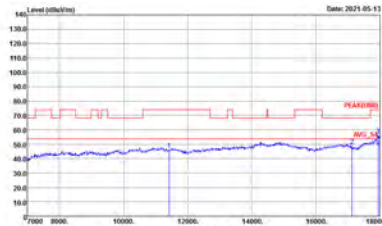
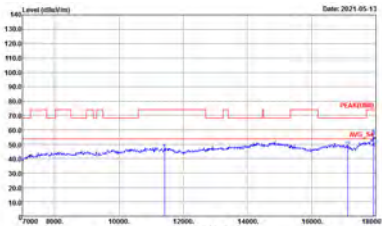


Band 3 – Straddle Channel
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site: 03CH11-4V Condition: PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site: 03CH11-4V Condition: PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

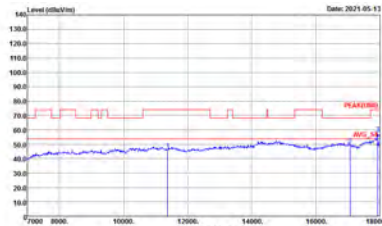
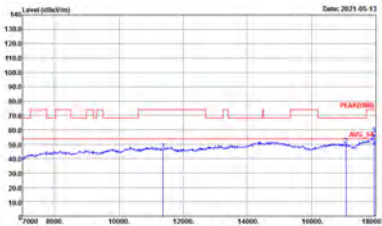


Band 3 – Straddle Channel
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT40 CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

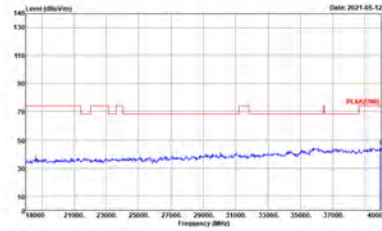
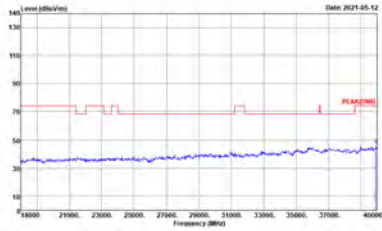


Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL	 Site : 03CH(I)-HY Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 VERTICAL

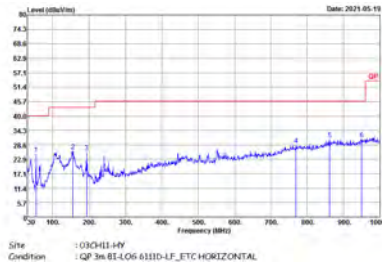
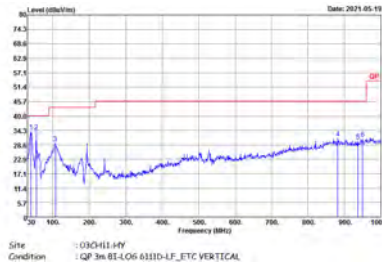


Emission above 18GHz
5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 SHF	
1+2	Horizontal	Vertical
Peak Avg.	 Site : (03CH11-14V) Condition : PEAK(UNIT) in SHF ANT_9170_00993 HORIZONTAL	 Site : (03CH11-14V) Condition : PEAK(UNIT) in SHF ANT_9170_00993 VERTICAL



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

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	802.11a	98.33	-	-	10Hz	0.07
1+2	5GHz 802.11ac VHT20	98.17	-	-	10Hz	0.08
1+2	5GHz 802.11ac VHT40	96.36	954	1.05	3kHz	0.16
1+2	5GHz 802.11ac VHT80	92.80	464	2.16	3kHz	0.32

MIMO <Ant. 1+2>

