FCC RADIO TEST REPORT

FCC ID	:	**2AXFL-4269**
Equipment	:	**Digital Media Receiver**
Model Name	:	**H6Y2A5**
Applicant	:	**Orthoclase Feldspar LLC 1202 NE McClain Road Bentonville, AR 72712**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on May 11, 2021 and testing was started from May 21, 2021 and completed on Jun. 25, 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
FR120234-01D	01	Initial issue of report	Jul. 07, 2021
FR120234-01D	02	Revise report typo	Aug. 04, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
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
3.5	15.207	AC Conducted Emission	Pass
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: Alan Liu

Report Producer: Vivian Hsu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	H6Y2A5
FCC ID	2AXFL-4269
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

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

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Average Output Power to antenna	**MIMO <Ant. 1+2>:** **<5180 MHz ~ 5240 MHz>** 802.11a: 19.46 dBm / 0.0883 W 802.11n HT20: 19.41 dBm / 0.0873 W 802.11n HT40: 19.81 dBm / 0.0957 W 802.11ac VHT20: 19.31 dBm / 0.0853 W 802.11ac VHT40: 19.71 dBm / 0.0935 W 802.11ac VHT80: 15.46 dBm / 0.0352 W **<5260 MHz ~ 5320 MHz>** 802.11a: 19.41 dBm / 0.0873 W 802.11n HT20: 19.37 dBm / 0.0864 W 802.11n HT40: 19.27 dBm / 0.0845 W 802.11ac VHT20: 19.27 dBm / 0.0845 W 802.11ac VHT40: 19.17 dBm / 0.0826 W 802.11ac VHT80: 15.46 dBm / 0.0352 W **<5500 MHz ~ 5720 MHz>** 802.11a: 19.16 dBm / 0.0825 W 802.11n HT20: 19.41 dBm / 0.0873 W 802.11n HT40: 19.21 dBm / 0.0834 W 802.11ac VHT20: 19.31 dBm / 0.0853 W 802.11ac VHT40: 19.11 dBm / 0.0815 W 802.11ac VHT80: 17.58 dBm / 0.0573 W

Product Specification subjective to this standard	
99% Occupied Bandwidth	**MIMO<Ant. 1>** 802.11a: 16.78 MHz 802.11n HT20: 17.78 MHz 802.11n HT40: 36.46 MHz 802.11ac VHT80: 76.24 MHz **MIMO<Ant. 2>** 802.11a: 16.73 MHz 802.11n HT20: 17.73 MHz 802.11n HT40: 36.46 MHz 802.11ac VHT80: 76.24 MHz
Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** <Ant. 1>: PCB Antenna with gain 3.0 dBi <Ant. 2>: PCB Antenna with gain 5.1 dBi **<5260 MHz ~ 5320 MHz>** <Ant. 1>: PCB Antenna with gain 3.0 dBi <Ant. 2>: PCB Antenna with gain 5.1 dBi **<5500 MHz ~ 5720 MHz>** <Ant. 1>: PCB Antenna with gain 3.0 dBi <Ant. 2>: PCB Antenna with gain 5.3 dBi
Type of Modulation	802.11a/n : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
Antenna Function Description	

	Ant. 1	Ant. 2
802.11 a/n/ac MIMO	V	V

Remark:

1. MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
2. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

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

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH02-HY, CO05-HY, 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.**
	03CH12-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

1.5 Applicable Standards

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

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

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
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.

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Idle with Controller + MPEG4 + Adapter + Bluetooth Link with Speaker
Remark: For Radiated Test Cases, the tests were performed with 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
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

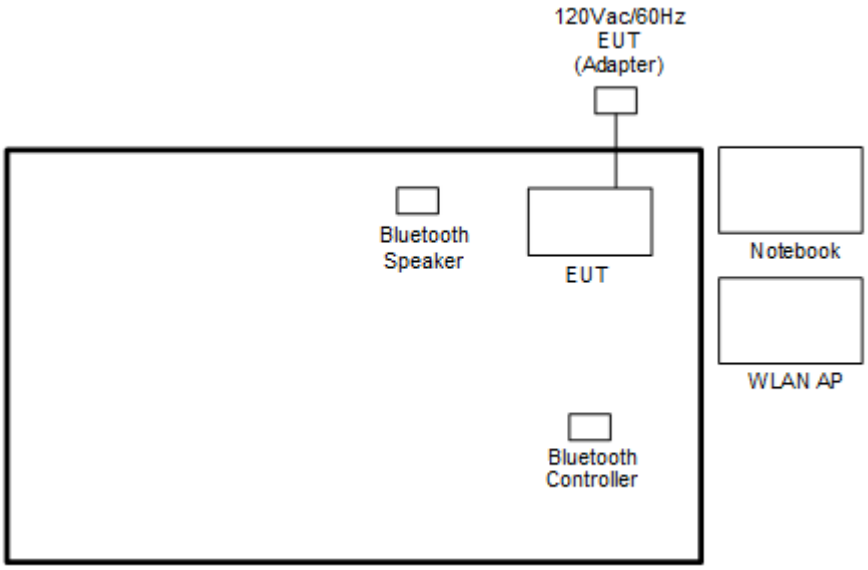
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

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

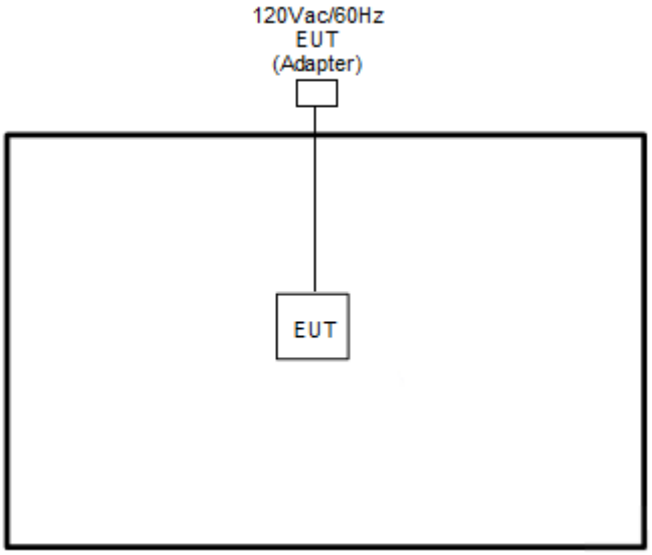
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Speaker	JAWBONE	MINIJAMBOX	N/A	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Fixture 1	N/A	N/A	N/A	N/A	N/A
5.	Fixture 2	N/A	N/A	N/A	N/A	N/A
6.	Fixture 3	N/A	N/A	N/A	N/A	N/A
7.	Bluetooth controller	N/A	N/A	2AVZA-2374	N/A	N/A

Note: The removable plastic fixtures are used for verification during test.

2.5 EUT Operation Test Setup

The RF test items, utility “Compliance tool 1.0.1.4” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 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.

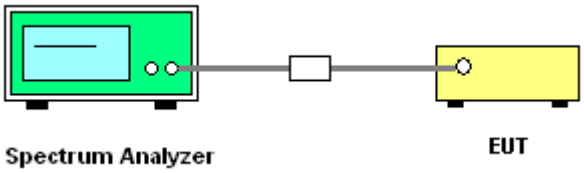
3.1.2 Measuring Instruments

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) ≥ 3 * RBW.
8. Measure and record the results in the test report.

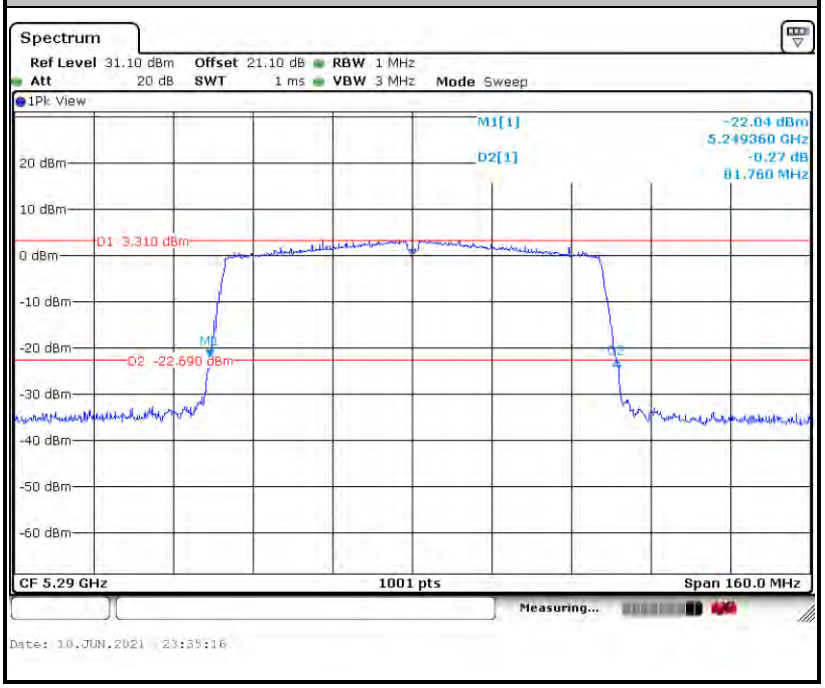
3.1.4 Test Setup



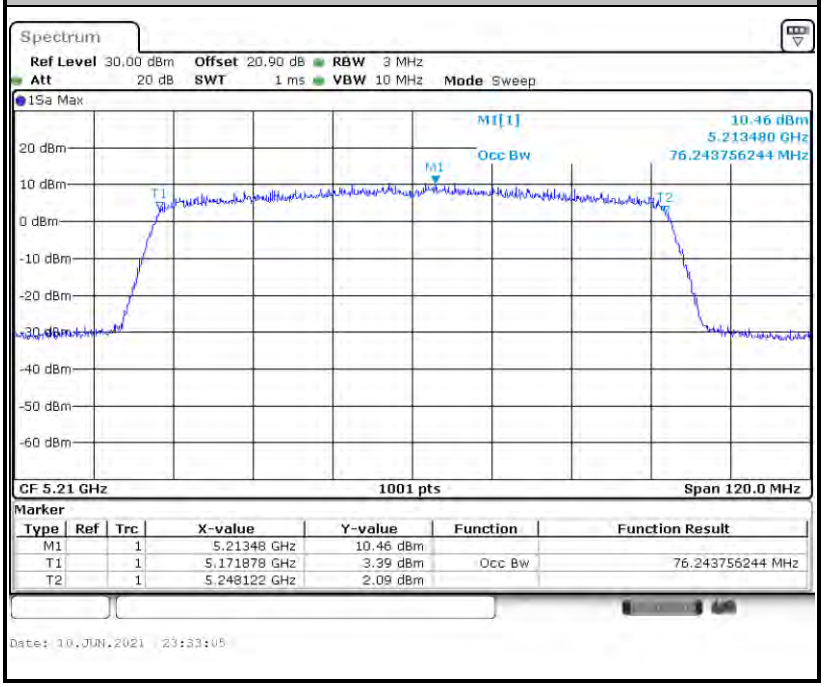
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<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 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

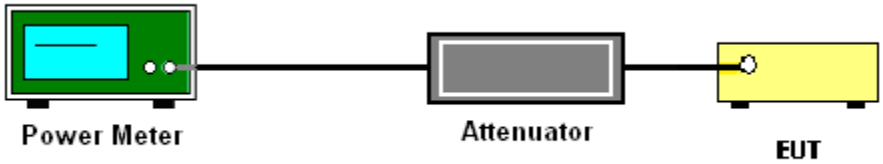
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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):

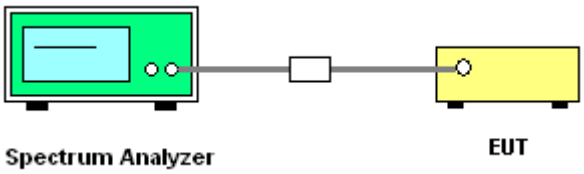
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
  Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

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

   Method (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.

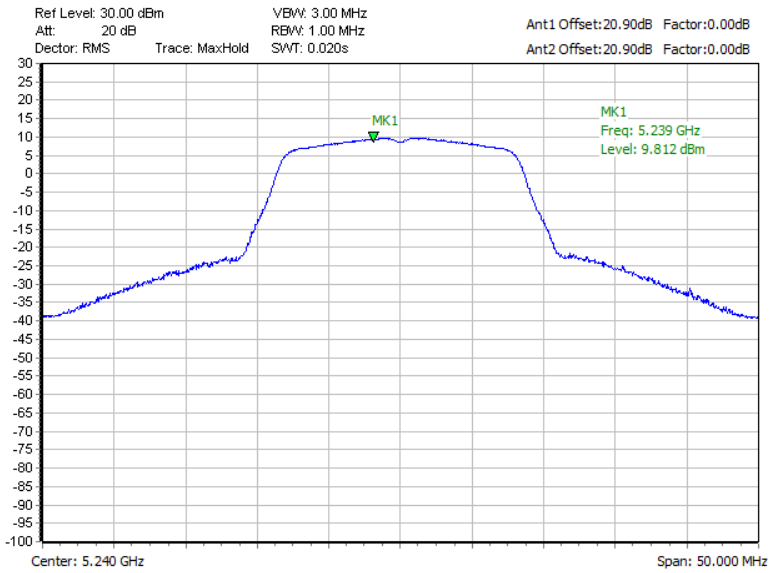
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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.

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

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

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

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

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

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

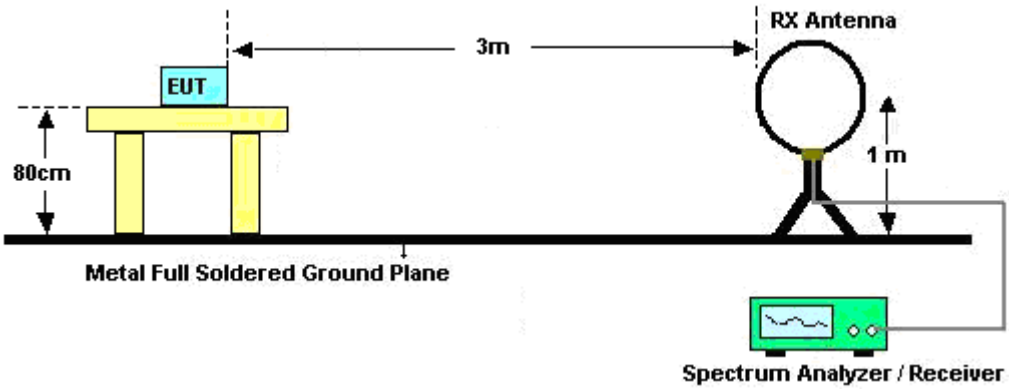
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

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

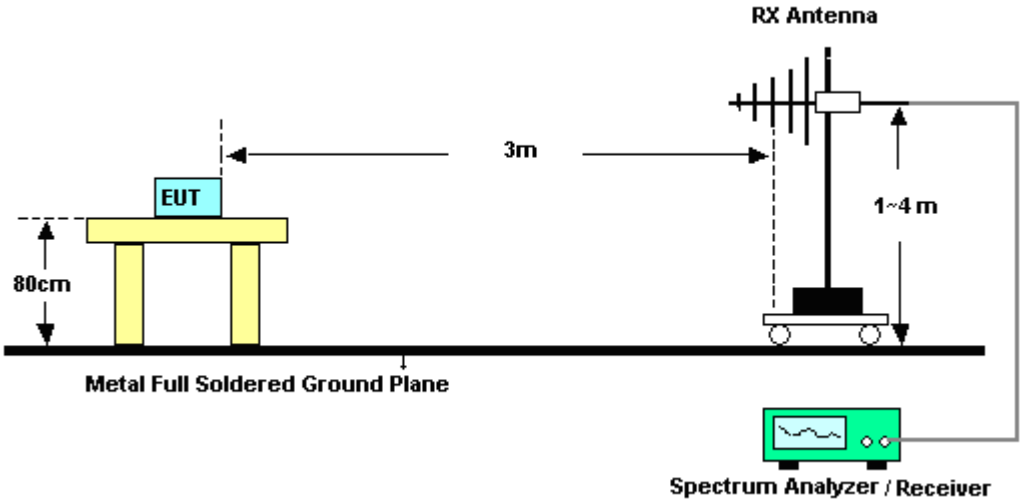
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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

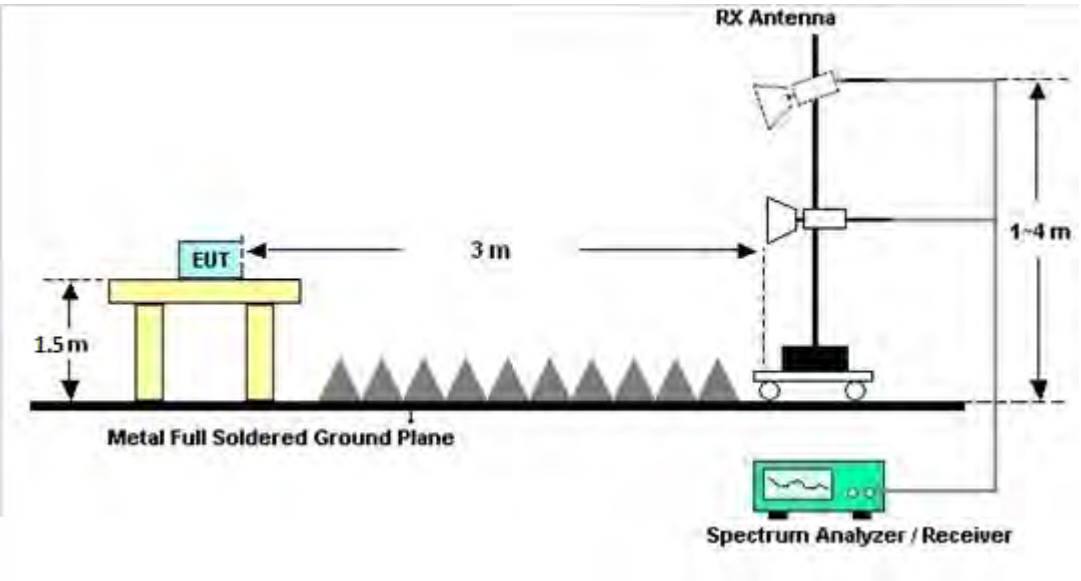
For radiated emissions below 30MHz



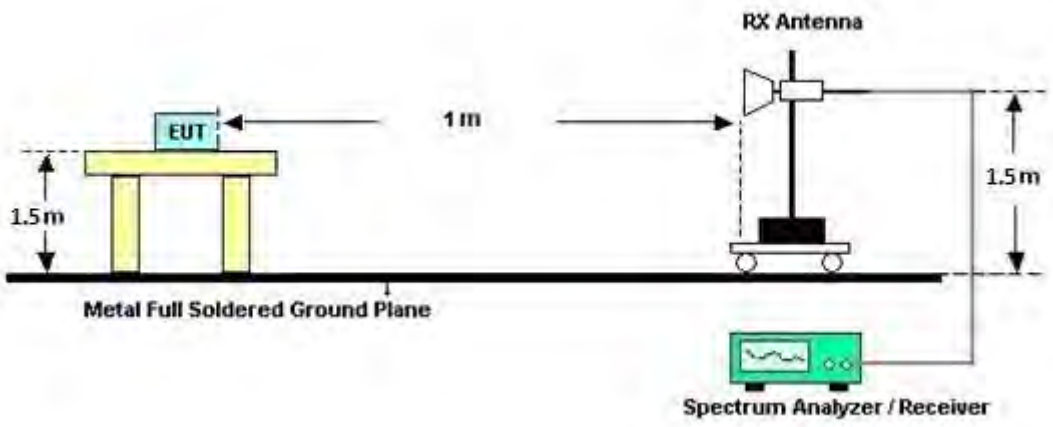
For radiated emissions from 30MHz to 1GHz



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

*Decreases with the logarithm of the frequency.

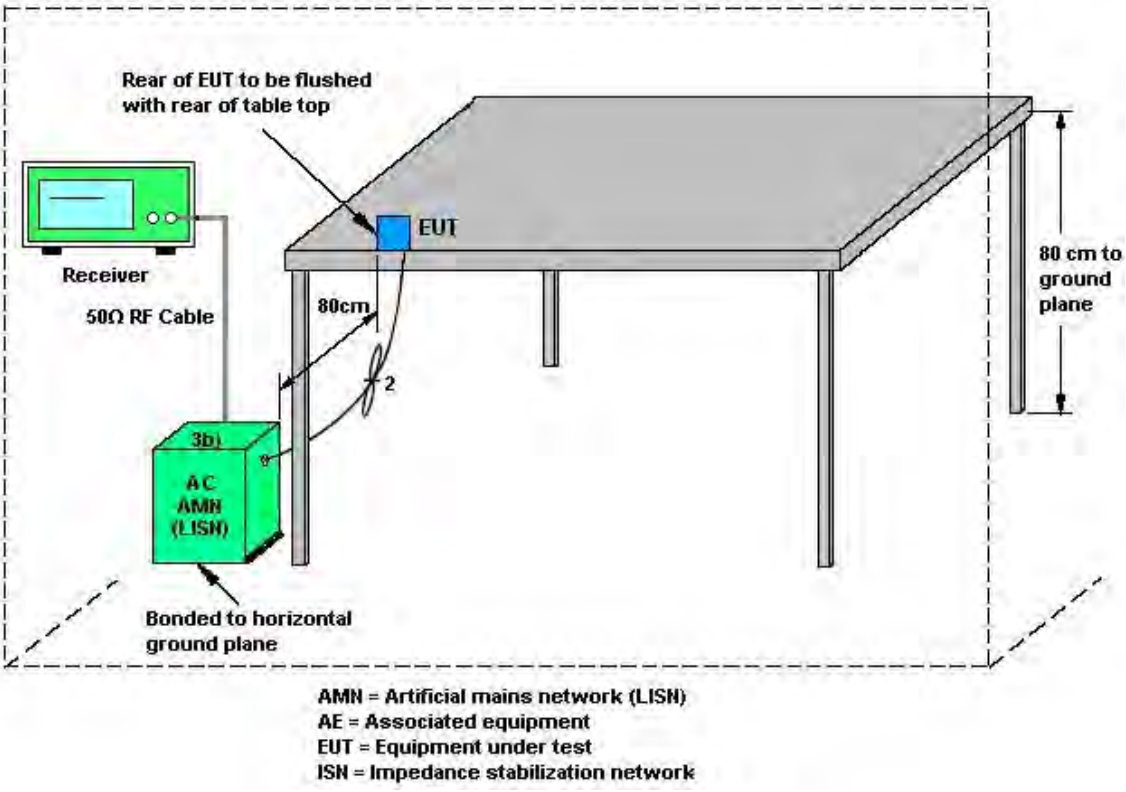
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 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.

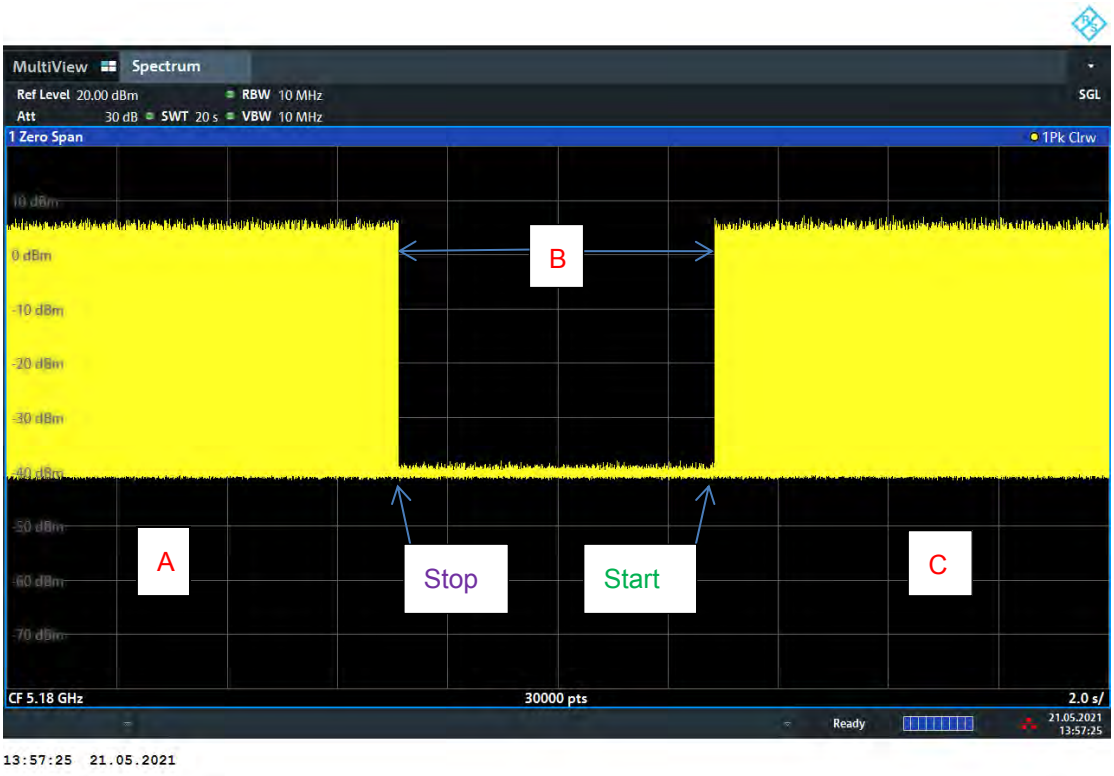
B. Information stop: stop supplying information to the access point.

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(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

For power, the directional gain 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>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	3.00	5.10	5.10	7.12	0.00	1.12
Band II	3.00	5.10	5.10	7.12	0.00	1.12
Band III	3.00	5.30	5.30	7.24	0.00	1.24

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 26, 2021~ Jun. 16, 2021	Jan. 03, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 11, 2020	May 26, 2021~ Jun. 16, 2021	Oct. 10, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 8	1GHz~18GHz	Nov. 23, 2020	May 26, 2021~ Jun. 16, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz~40GHz	Nov. 19, 2020	May 26, 2021~ Jun. 16, 2021	Nov. 18, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	May 26, 2021~ Jun. 16, 2021	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY572801 20	1GHz~26.5GHz	Jul. 20, 2020	May 26, 2021~ Jun. 16, 2021	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC190024 9	1GHz-18GHz	Dec. 05, 2020	May 26, 2021~ Jun. 16, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	May 26, 2021~ Jun. 16, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY534701 18	10Hz~44GHz	Jan. 15, 2021	May 26, 2021~ Jun. 16, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 11, 2021	May 26, 2021~ Jun. 16, 2021	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	May 26, 2021~ Jun. 16, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	May 26, 2021~ Jun. 16, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	May 26, 2021~ Jun. 16, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 26, 2021~ Jun. 16, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 26, 2021~ Jun. 16, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	May 26, 2021~ Jun. 16, 2021	N/A	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-1 2SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	May 26, 2021~ Jun. 16, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN2	6.75GHz High Pass Filter	Mar. 17, 2021	May 26, 2021~ Jun. 16, 2021	Mar. 16, 2022	Radiation (03CH12-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	Jun. 25, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Jun. 25, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Jun. 25, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	Jun. 25, 2021	Nov. 30, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 25, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Jun. 25, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Jun. 25, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	May 31 2021~ Jun. 10, 2021	Mar. 02, 2022	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 16, 2020	May 31 2021~ Jun. 10, 2021	Dec. 15, 2021	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	May 31 2021~ Jun. 10, 2021	Jul. 21, 2021	Conducted (TH02-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	May 31 2021~ Jun. 10, 2021	Mar. 16, 2022	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20, 2021	May 21, 2021	Apr. 19, 2022	Conducted (DFS02-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 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.6 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ching Chen / Hank Hsu	Temperature:	21~25	℃
Test Date:	2021/5/31~2021/6/10	Relative Humidity:	51~54	%

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	16.68	16.53	21.15	21.00	-		22.18			
11a	6Mbps	2	44	5220	16.78	16.68	21.15	22.15	-		22.22			
11a	6Mbps	2	48	5240	16.78	16.68	21.35	21.30	-		22.22			
HT20	MCS0	2	36	5180	17.68	17.63	21.40	21.20	-		22.46			
HT20	MCS0	2	44	5220	17.73	17.73	21.40	21.45	-		22.49			
HT20	MCS0	2	48	5240	17.68	17.68	21.45	21.25	-		22.48			
HT40	MCS0	2	38	5190	36.46	36.36	41.85	41.22	-		23.01			
HT40	MCS0	2	46	5230	36.36	36.46	41.85	42.12	-		23.01			
VHT80	MCS0	2	42	5210	76.24	76.24	81.28	80.80	-		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	16.10	16.20	19.16	24.00		5.10			Pass
11a	6Mbps	2	44	5220	16.40	16.50	19.46	24.00		5.10			Pass
11a	6Mbps	2	48	5240	16.40	16.40	19.41	24.00		5.10			Pass
HT20	MCS0	2	36	5180	15.80	15.80	18.81	24.00		5.10			Pass
HT20	MCS0	2	44	5220	16.30	16.40	19.36	24.00		5.10			Pass
HT20	MCS0	2	48	5240	16.40	16.40	19.41	24.00		5.10			Pass
HT40	MCS0	2	38	5190	16.30	16.50	19.41	24.00		5.10			Pass
HT40	MCS0	2	46	5230	16.80	16.80	19.81	24.00		5.10			Pass
VHT20	MCS0	2	36	5180	15.70	15.70	18.71	24.00		5.10			Pass
VHT20	MCS0	2	44	5220	16.20	16.30	19.26	24.00		5.10			Pass
VHT20	MCS0	2	48	5240	16.30	16.30	19.31	24.00		5.10			Pass
VHT40	MCS0	2	38	5190	16.20	16.40	19.31	24.00		5.10			Pass
VHT40	MCS0	2	46	5230	16.70	16.70	19.71	24.00		5.10			Pass
VHT80	MCS0	2	42	5210	12.40	12.50	15.46	24.00		5.10			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			9.69	9.88		7.12			Pass
11a	6Mbps	2	44	5220			9.52	9.88		7.12			Pass
11a	6Mbps	2	48	5240			9.81	9.88		7.12			Pass
HT20	MCS0	2	36	5180			9.32	9.88		7.12			Pass
HT20	MCS0	2	44	5220			9.47	9.88		7.12			Pass
HT20	MCS0	2	48	5240			9.77	9.88		7.12			Pass
HT40	MCS0	2	38	5190			7.07	9.88		7.12			Pass
HT40	MCS0	2	46	5230			7.42	9.88		7.12			Pass
VHT80	MCS0	2	42	5210			-0.10	9.88		7.12			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	16.78	16.73	21.00	21.05	23.24		29.24		23.98		
11a	6Mbps	2	60	5300	16.73	16.73	21.10	22.20	23.24		29.24		23.98		
11a	6Mbps	2	64	5320	16.68	16.58	21.20	21.10	23.20		29.20		23.98		
HT20	MCS0	2	52	5260	17.73	17.68	21.35	21.30	23.48		29.48		23.98		
HT20	MCS0	2	60	5300	17.78	17.73	21.45	21.55	23.49		29.49		23.98		
HT20	MCS0	2	64	5320	17.68	17.63	21.35	21.30	23.46		29.46		23.98		
HT40	MCS0	2	54	5270	36.46	36.46	42.03	41.67	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.46	36.36	41.67	41.13	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	76.12	76.24	81.76	80.64	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	15.70	15.70	18.71	23.98		5.10		26.99	Pass
11a	6Mbps	2	60	5300	16.20	16.60	19.41	23.98		5.10		26.99	Pass
11a	6Mbps	2	64	5320	15.60	16.20	18.92	23.98		5.10		26.99	Pass
HT20	MCS0	2	52	5260	15.80	15.70	18.76	23.98		5.10		26.99	Pass
HT20	MCS0	2	60	5300	16.10	16.50	19.31	23.98		5.10		26.99	Pass
HT20	MCS0	2	64	5320	16.10	16.60	19.37	23.98		5.10		26.99	Pass
HT40	MCS0	2	54	5270	16.20	16.10	19.16	23.98		5.10		26.99	Pass
HT40	MCS0	2	62	5310	16.00	16.50	19.27	23.98		5.10		26.99	Pass
VHT20	MCS0	2	52	5260	15.70	15.60	18.66	23.98		5.10		26.99	Pass
VHT20	MCS0	2	60	5300	16.00	16.40	19.21	23.98		5.10		26.99	Pass
VHT20	MCS0	2	64	5320	16.00	16.50	19.27	23.98		5.10		26.99	Pass
VHT40	MCS0	2	54	5270	16.10	16.00	19.06	23.98		5.10		26.99	Pass
VHT40	MCS0	2	62	5310	15.90	16.40	19.17	23.98		5.10		26.99	Pass
VHT80	MCS0	2	58	5290	12.50	12.40	15.46	23.98		5.10		26.99	Pass

Report Number : FR120234-01D

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			9.39	9.88		7.12			Pass
11a	6Mbps	2	60	5300			9.46	9.88		7.12			Pass
11a	6Mbps	2	64	5320			9.33	9.88		7.12			Pass
HT20	MCS0	2	52	5260			9.32	9.88		7.12			Pass
HT20	MCS0	2	60	5300			9.45	9.88		7.12			Pass
HT20	MCS0	2	64	5320			9.75	9.88		7.12			Pass
HT40	MCS0	2	54	5270			6.67	9.88		7.12			Pass
HT40	MCS0	2	62	5310			6.64	9.88		7.12			Pass
VHT80	MCS0	2	58	5290			-0.73	9.88		7.12			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	16.68	16.58	21.10	20.80	23.20		29.20		23.98		----	----
11a	6Mbps	2	116	5580	16.68	16.58	21.25	21.00	23.20		29.20		23.98		----	----
11a	6Mbps	2	140	5700	16.73	16.58	21.25	21.05	23.20		29.20		23.98		----	----
HT20	MCS0	2	100	5500	17.68	17.63	21.35	21.10	23.46		29.46		23.98		----	----
HT20	MCS0	2	116	5580	17.68	17.68	21.55	21.15	23.48		29.48		23.98		----	----
HT20	MCS0	2	140	5700	17.68	17.68	21.40	21.10	23.48		29.48		23.98		----	----
HT40	MCS0	2	102	5510	36.26	36.26	41.40	41.13	23.98		30.00		23.98		----	----
HT40	MCS0	2	110	5550	36.36	36.36	41.40	41.76	23.98		30.00		23.98		----	----
HT40	MCS0	2	134	5670	36.36	36.36	41.76	41.22	23.98		30.00		23.98		----	----
VHT80	MCS0	2	106	5530	76.24	76.12	81.60	80.96	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	76.24	76.24	81.28	80.64	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	13.29	15.55	15.50	22.24		28.24		22.90		3.15	3.2
HT20	MCS0	2	144	5720	13.84	13.84	15.65	15.65	22.41		28.41		22.95		3.8	3.8
HT40	MCS0	2	142	5710	33.18	33.18	35.88	35.70	23.98		30.00		23.98		3.18	3.18
VHT80	MCS0	2	138	5690	73.12	73.00	75.64	75.16	23.98		30.00		23.98		3.24	3.24

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	15.90	16.00	18.96	23.98		5.30		26.99	Pass
11a	6Mbps	2	116	5580	15.70	16.50	19.13	23.98		5.30		26.99	Pass
11a	6Mbps	2	140	5700	16.00	16.30	19.16	23.98		5.30		26.99	Pass
HT20	MCS0	2	100	5500	16.40	16.40	19.41	23.98		5.30		26.99	Pass
HT20	MCS0	2	116	5580	15.60	16.40	19.03	23.98		5.30		26.99	Pass
HT20	MCS0	2	140	5700	15.80	16.10	18.96	23.98		5.30		26.99	Pass
HT40	MCS0	2	102	5510	16.10	16.30	19.21	23.98		5.30		26.99	Pass
HT40	MCS0	2	110	5550	15.70	16.60	19.18	23.98		5.30		26.99	Pass
HT40	MCS0	2	134	5670	16.40	15.70	19.07	23.98		5.30		26.99	Pass
VHT20	MCS0	2	100	5500	16.30	16.30	19.31	23.98		5.30		26.99	Pass
VHT20	MCS0	2	116	5580	15.50	16.30	18.93	23.98		5.30		26.99	Pass
VHT20	MCS0	2	140	5700	15.70	16.00	18.86	23.98		5.30		26.99	Pass
VHT40	MCS0	2	102	5510	16.00	16.20	19.11	23.98		5.30		26.99	Pass
VHT40	MCS0	2	110	5550	15.60	16.50	19.08	23.98		5.30		26.99	Pass
VHT40	MCS0	2	134	5670	16.30	15.60	18.97	23.98		5.30		26.99	Pass
VHT80	MCS0	2	106	5530	14.00	14.30	17.16	23.98		5.30		26.99	Pass
VHT80	MCS0	2	122	5610	14.10	15.00	17.58	23.98		5.30		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	15.70	16.30	19.02	22.90		5.30		26.99	Pass
HT20	MCS0	2	144	5720	16.10	16.50	19.31	22.95		5.30		26.99	Pass
HT40	MCS0	2	142	5710	15.60	16.10	18.87	23.98		5.30		26.99	Pass
VHT20	MCS0	2	144	5720	16.00	16.40	19.21	23.98		5.30		26.99	Pass
VHT40	MCS0	2	142	5710	15.50	16.00	18.77	23.98		5.30		26.99	Pass
VHT80	MCS0	2	138	5690	14.60	14.00	17.32	23.98		5.30		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			9.29	9.76		7.24			Pass
11a	6Mbps	2	116	5580			9.58	9.76		7.24			Pass
11a	6Mbps	2	140	5700			9.39	9.76		7.24			Pass
HT20	MCS0	2	100	5500			9.74	9.76		7.24			Pass
HT20	MCS0	2	116	5580			9.49	9.76		7.24			Pass
HT20	MCS0	2	140	5700			9.23	9.76		7.24			Pass
HT40	MCS0	2	102	5510			6.52	9.76		7.24			Pass
HT40	MCS0	2	110	5550			6.48	9.76		7.24			Pass
HT40	MCS0	2	134	5670			6.43	9.76		7.24			Pass
VHT80	MCS0	2	106	5530			0.93	9.76		7.24			Pass
VHT80	MCS0	2	122	5610			1.67	9.76		7.24			Pass

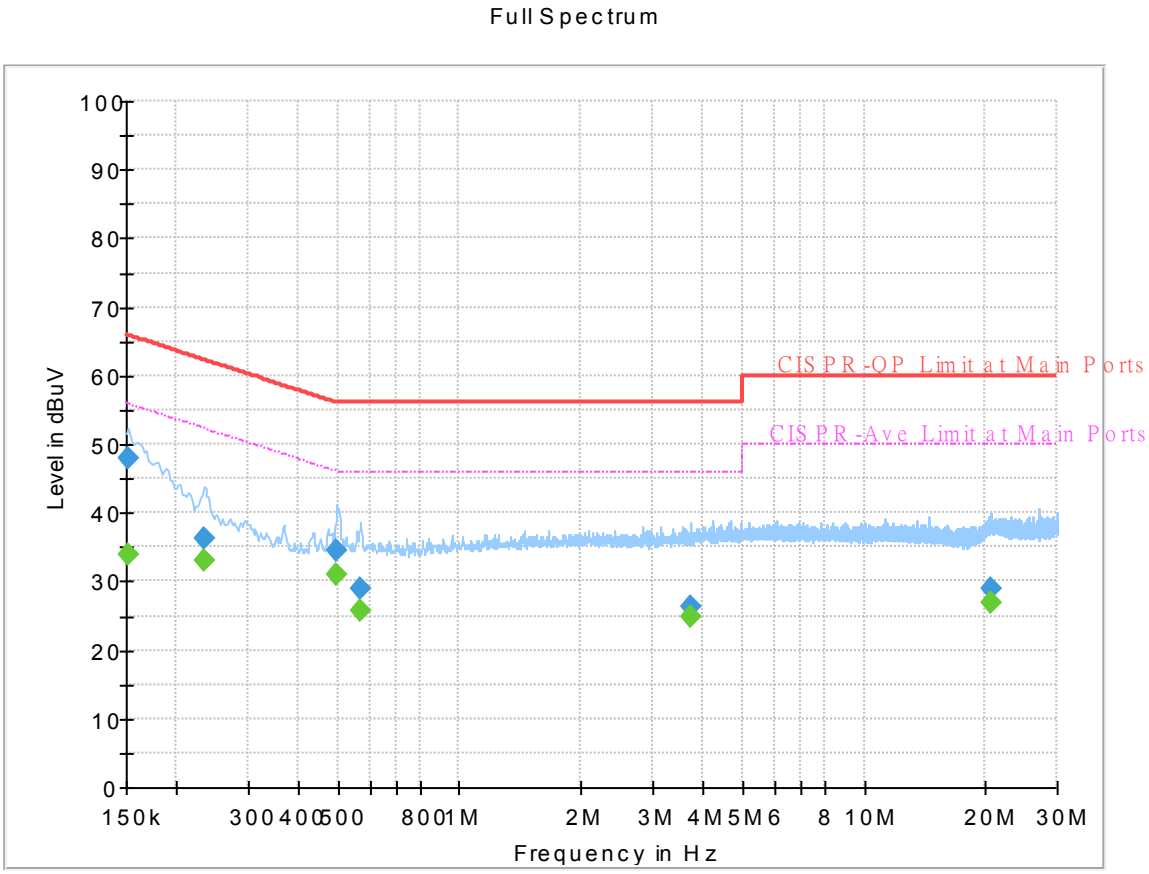
Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720			9.57	9.76		7.24			Pass
HT20	MCS0	2	144	5720			9.61	9.76		7.24			Pass
HT40	MCS0	2	142	5710			6.34	9.76		7.24			Pass
VHT80	MCS0	2	138	5690			1.38	9.76		7.24			Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	**Temperature :**	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO :	120234-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

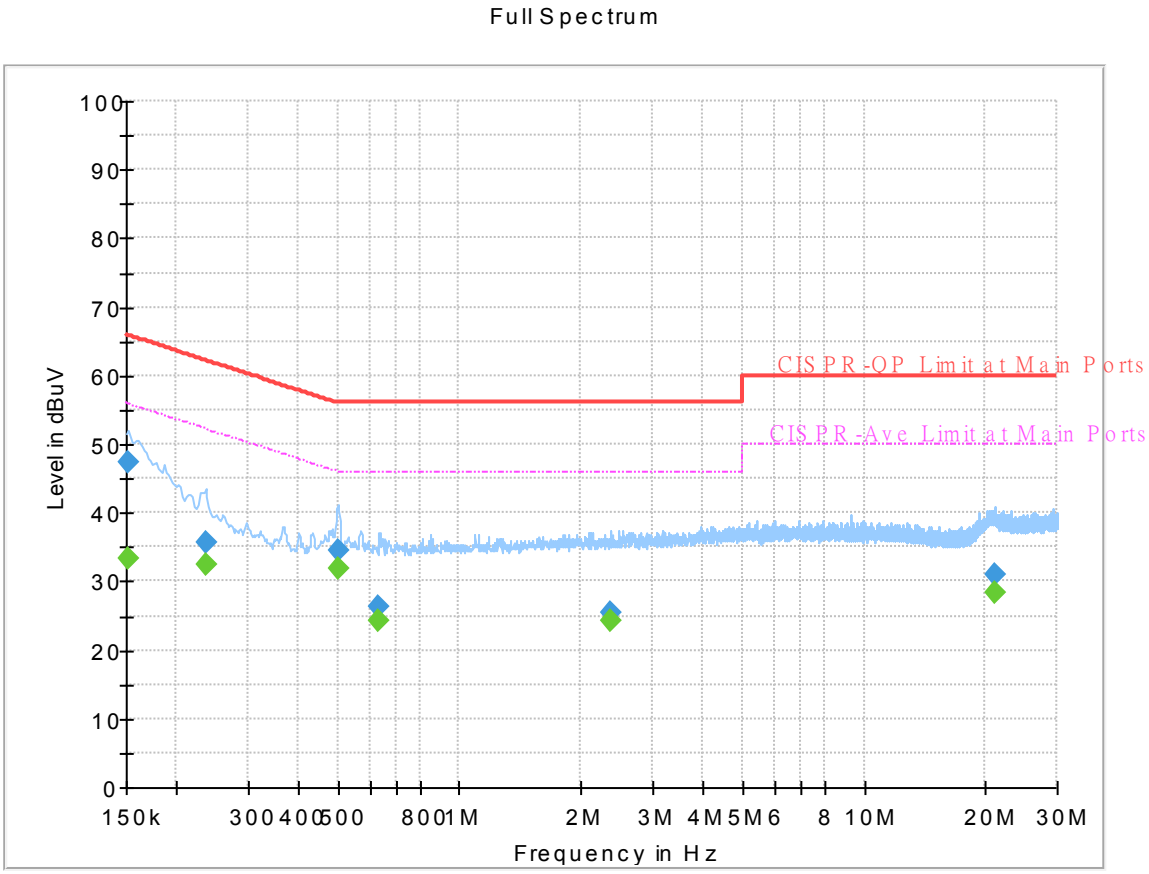


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	33.81	55.88	22.07	L1	OFF	19.5
0.152250	47.90	---	65.88	17.98	L1	OFF	19.5
0.233250	---	33.03	52.33	19.30	L1	OFF	19.5
0.233250	36.18	---	62.33	26.15	L1	OFF	19.5
0.498750	---	30.98	46.02	15.04	L1	OFF	19.7
0.498750	34.39	---	56.02	21.63	L1	OFF	19.7
0.568500	---	25.87	46.00	20.13	L1	OFF	19.7
0.568500	29.06	---	56.00	26.94	L1	OFF	19.7
3.732000	---	24.91	46.00	21.09	L1	OFF	19.9
3.732000	26.29	---	56.00	29.71	L1	OFF	19.9
20.573250	---	26.88	50.00	23.12	L1	OFF	20.4
20.573250	29.02	---	60.00	30.98	L1	OFF	20.4

EUT Information

Report NO :	120234-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	33.43	55.88	22.45	N	OFF	19.5
0.152250	47.34	---	65.88	18.54	N	OFF	19.5
0.235500	---	32.50	52.25	19.75	N	OFF	19.5
0.235500	35.75	---	62.25	26.50	N	OFF	19.5
0.501000	---	31.90	46.00	14.10	N	OFF	19.7
0.501000	34.57	---	56.00	21.43	N	OFF	19.7
0.633750	---	24.34	46.00	21.66	N	OFF	19.8
0.633750	26.37	---	56.00	29.63	N	OFF	19.8
2.366250	---	24.20	46.00	21.80	N	OFF	20.0
2.366250	25.57	---	56.00	30.43	N	OFF	20.0
21.158250	---	28.24	50.00	21.76	N	OFF	20.6
21.158250	30.86	---	60.00	29.14	N	OFF	20.6

Appendix C. Radiated Spurious Emission

Test Engineer :	Jack Cheng, Lance Chiang and Chuan Chu	Temperature :	23.8~26.2℃
		Relative Humidity :	56.5~68.6%

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		5143.78	56.3	-17.7	74	47.73	31.9	9.95	33.28	173	92	P	H
		5150	49.24	-4.76	54	40.66	31.9	9.96	33.28	173	92	A	H
	*	5180	115.57	-	-	107.13	31.72	9.99	33.27	173	92	P	H
	*	5180	107.69	-	-	99.25	31.72	9.99	33.27	173	92	A	H
		5147.94	54.17	-19.83	74	45.59	31.9	9.96	33.28	289	346	P	V
		5146.12	46	-8	54	37.43	31.9	9.95	33.28	289	346	A	V
	*	5180	113.71	-	-	105.27	31.72	9.99	33.27	289	346	P	V
	*	5180	106.36	-	-	97.92	31.72	9.99	33.27	289	346	A	V
802.11a CH 44 5220MHz		5138.58	53.62	-20.38	74	45.05	31.9	9.95	33.28	152	94	P	H
		5145.86	45.52	-8.48	54	36.95	31.9	9.95	33.28	152	94	A	H
	*	5220	116.23	-	-	107.99	31.48	10.03	33.27	152	94	P	H
	*	5220	108.03	-	-	99.79	31.48	10.03	33.27	152	94	A	H
		5393.08	50.56	-23.44	74	42.25	31.37	10.19	33.25	152	94	P	H
		5350.24	42.24	-11.76	54	34.14	31.2	10.15	33.25	152	94	A	H
		5140.66	51.76	-22.24	74	43.19	31.9	9.95	33.28	300	358	P	V
		5142.74	42.7	-11.3	54	34.13	31.9	9.95	33.28	300	358	A	V
	*	5220	112.63	-	-	104.39	31.48	10.03	33.27	300	358	P	V
	*	5220	105.07	-	-	96.83	31.48	10.03	33.27	300	358	A	V
		5441.24	49.06	-24.94	74	40.49	31.56	10.26	33.25	300	358	P	V
		5381.04	40.1	-13.9	54	31.85	31.32	10.18	33.25	300	358	A	V

802.11a CH 48 5240MHz		5135.72	53.15	-20.85	74	44.59	31.9	9.94	33.28	165	92	P	H
		5150	44.79	-9.21	54	36.21	31.9	9.96	33.28	165	92	A	H
	*	5240	115.42	-	-	107.28	31.36	10.05	33.27	165	92	P	H
	*	5240	107.93	-	-	99.79	31.36	10.05	33.27	165	92	A	H
		5350.52	50.72	-23.28	74	42.62	31.2	10.15	33.25	165	92	P	H
		5350	42.69	-11.31	54	34.6	31.2	10.15	33.26	165	92	A	H
		5121.68	52.04	-21.96	74	43.49	31.9	9.93	33.28	100	360	P	V
		5150	42.76	-11.24	54	34.18	31.9	9.96	33.28	100	360	A	V
	*	5240	112.37	-	-	104.23	31.36	10.05	33.27	100	360	P	V
	*	5240	105.15	-	-	97.01	31.36	10.05	33.27	100	360	A	V
		5435.08	49.81	-24.19	74	41.27	31.54	10.25	33.25	100	360	P	V
		5351.92	41.3	-12.7	54	33.19	31.21	10.15	33.25	100	360	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	49.45	-18.75	68.2	61.2	39.58	16	67.33	100	0	P	H
		15540	48.07	-25.93	74	57.63	37.92	19.66	67.14	100	0	P	H
		17978	61.65	-12.35	74	60.56	49.76	20.73	69.4	100	0	P	H
		17978	50.46	-3.54	54	49.37	49.76	20.73	69.4	100	0	A	H
		10360	51.13	-17.07	68.2	62.88	39.58	16	67.33	100	0	P	V
		15540	48.52	-25.48	74	58.08	37.92	19.66	67.14	100	0	P	V
		17989	61.45	-12.55	74	60.08	50.08	20.73	69.44	100	0	P	V
		17989	50.63	-3.37	54	49.26	50.08	20.73	69.44	100	0	A	V
802.11a CH 44 5220MHz		10440	52.46	-15.74	68.2	63.85	39.78	16.07	67.24	100	0	P	H
		15660	48.69	-25.31	74	58.68	37.56	19.67	67.22	100	0	P	H
		17989	61.14	-12.86	74	59.77	50.08	20.73	69.44	100	0	P	H
		17989	50.86	-3.14	54	49.49	50.08	20.73	69.44	100	0	A	H
		10440	54.52	-13.68	68.2	65.91	39.78	16.07	67.24	100	0	P	V
		15660	49.35	-24.65	74	59.34	37.56	19.67	67.22	100	0	P	V
		17989	60.92	-13.08	74	59.55	50.08	20.73	69.44	100	0	P	V
		17989	50.61	-3.39	54	49.24	50.08	20.73	69.44	100	0	A	V
802.11a CH 48 5240MHz		10480	50.09	-18.11	68.2	61.32	39.86	16.11	67.2	100	0	P	H
		15720	49.57	-24.43	74	59.61	37.54	19.68	67.26	100	0	P	H
		17989	60.48	-13.52	74	59.11	50.08	20.73	69.44	100	0	P	H
		17989	50.9	-3.1	54	49.53	50.08	20.73	69.44	100	0	A	H
		10480	54.42	-13.78	68.2	65.65	39.86	16.11	67.2	100	0	P	V
		15720	48.58	-25.42	74	58.62	37.54	19.68	67.26	100	0	P	V
		17989	60.77	-13.23	74	59.4	50.08	20.73	69.44	100	0	P	V
		17989	50.71	-3.29	54	49.34	50.08	20.73	69.44	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 802.11n HT20 (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)
802.11n HT20 CH 36 5180MHz		5126.62	56.72	-17.28	74	48.17	31.9	9.93	33.28	166	96	P	H
		5150	49	-5	54	40.42	31.9	9.96	33.28	166	96	A	H
	*	5180	116.03	-	-	107.59	31.72	9.99	33.27	166	96	P	H
	*	5180	108.03	-	-	99.59	31.72	9.99	33.27	166	96	A	H
		5149.24	55.74	-18.26	74	47.16	31.9	9.96	33.28	304	344	P	V
		5150	46.94	-7.06	54	38.36	31.9	9.96	33.28	304	344	A	V
	*	5180	113.62	-	-	105.18	31.72	9.99	33.27	304	344	P	V
	*	5180	106.05	-	-	97.61	31.72	9.99	33.27	304	344	A	V
802.11n HT20 CH 44 5220MHz		5091.78	53.59	-20.41	74	45.1	31.87	9.9	33.28	169	92	P	H
		5148.2	45.92	-8.08	54	37.34	31.9	9.96	33.28	169	92	A	H
	*	5220	114.89	-	-	106.65	31.48	10.03	33.27	169	92	P	H
	*	5220	107.47	-	-	99.23	31.48	10.03	33.27	169	92	A	H
		5361.16	50.47	-23.53	74	42.32	31.24	10.16	33.25	169	92	P	H
		5350	41.93	-12.07	54	33.84	31.2	10.15	33.26	169	92	A	H
		5137.8	51.96	-22.04	74	43.4	31.9	9.94	33.28	102	2	P	V
		5148.72	43.09	-10.91	54	34.51	31.9	9.96	33.28	102	2	A	V
	*	5220	111.87	-	-	103.63	31.48	10.03	33.27	102	2	P	V
	*	5220	104.67	-	-	96.43	31.48	10.03	33.27	102	2	A	V
		5360.6	48.52	-25.48	74	40.37	31.24	10.16	33.25	102	2	P	V
		5378.8	40.71	-13.29	54	32.46	31.32	10.18	33.25	102	2	A	V

802.11n HT20 CH 48 5240MHz		5141.18	54.09	-19.91	74	45.52	31.9	9.95	33.28	165	93	P	H
		5148.72	44.78	-9.22	54	36.2	31.9	9.96	33.28	165	93	A	H
	*	5240	115.6	-	-	107.46	31.36	10.05	33.27	165	93	P	H
	*	5240	107.72	-	-	99.58	31.36	10.05	33.27	165	93	A	H
		5361.72	50.97	-23.03	74	42.81	31.25	10.16	33.25	165	93	P	H
		5351.64	42.92	-11.08	54	34.81	31.21	10.15	33.25	165	93	A	H
		5139.88	51.96	-22.04	74	43.39	31.9	9.95	33.28	108	2	P	V
		5148.72	42.79	-11.21	54	34.21	31.9	9.96	33.28	108	2	A	V
	*	5240	112.08	-	-	103.94	31.36	10.05	33.27	108	2	P	V
	*	5240	104.63	-	-	96.49	31.36	10.05	33.27	108	2	A	V
		5458.32	49.03	-24.97	74	40.36	31.63	10.28	33.24	108	2	P	V
		5350	41.32	-12.68	54	33.23	31.2	10.15	33.26	108	2	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (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)
802.11n HT20 CH 36 5180MHz		10360	50.38	-17.82	68.2	62.13	39.58	16	67.33	100	0	P	H
		15540	49.87	-24.13	74	59.43	37.92	19.66	67.14	100	0	P	H
		17989	60.95	-13.05	74	59.58	50.08	20.73	69.44	100	0	P	H
		17989	50.77	-3.23	54	49.4	50.08	20.73	69.44	100	0	A	H
		10360	52.38	-15.82	68.2	64.13	39.58	16	67.33	100	0	P	V
		15540	49.26	-24.74	74	58.82	37.92	19.66	67.14	100	0	P	V
		17989	61.69	-12.31	74	60.32	50.08	20.73	69.44	100	0	P	V
		17989	50.57	-3.43	54	49.2	50.08	20.73	69.44	100	0	A	V
802.11n HT20 CH 44 5220MHz		10440	50.38	-17.82	68.2	61.77	39.78	16.07	67.24	100	0	P	H
		15660	49.28	-24.72	74	59.27	37.56	19.67	67.22	100	0	P	H
		17978	60.24	-13.76	74	59.15	49.76	20.73	69.4	100	0	P	H
		17978	50.61	-3.39	54	49.52	49.76	20.73	69.4	100	0	A	H
		10440	52.96	-15.24	68.2	64.35	39.78	16.07	67.24	100	0	P	V
		15660	48.82	-25.18	74	58.81	37.56	19.67	67.22	100	0	P	V
		17978	59.93	-14.07	74	58.84	49.76	20.73	69.4	100	0	P	V
		17978	50.28	-3.72	54	49.19	49.76	20.73	69.4	100	0	A	V
802.11n HT20 CH 48 5240MHz		10480	50.31	-17.89	68.2	61.54	39.86	16.11	67.2	100	0	P	H
		15720	49.11	-24.89	74	59.15	37.54	19.68	67.26	100	0	P	H
		17978	61.4	-12.6	74	60.31	49.76	20.73	69.4	100	0	P	H
		17978	50.56	-3.44	54	49.47	49.76	20.73	69.4	100	0	A	H
		10480	52.65	-15.55	68.2	63.88	39.86	16.11	67.2	100	0	P	V
		15720	49.79	-24.21	74	59.83	37.54	19.68	67.26	100	0	P	V
		17978	60.92	-13.08	74	59.83	49.76	20.73	69.4	100	0	P	V
		17978	50.31	-3.69	54	49.22	49.76	20.73	69.4	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 802.11n HT40 (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)
802.11n HT40 CH 38 5190MHz		5149.5	56.45	-17.55	74	47.87	31.9	9.96	33.28	280	96	P	H
		5148.72	49	-5	54	40.42	31.9	9.96	33.28	280	96	A	H
	*	5190	111.29	-	-	102.9	31.66	10	33.27	280	96	P	H
	*	5190	103.54	-	-	95.15	31.66	10	33.27	280	96	A	H
		5417.44	48.66	-25.34	74	40.22	31.47	10.22	33.25	280	96	P	H
		5351.08	40.85	-13.15	54	32.75	31.2	10.15	33.25	280	96	A	H
		5146.64	54.16	-19.84	74	45.59	31.9	9.95	33.28	288	344	P	V
		5146.64	47.43	-6.57	54	38.86	31.9	9.95	33.28	288	344	A	V
	*	5190	109.71	-	-	101.32	31.66	10	33.27	288	344	P	V
	*	5190	102.52	-	-	94.13	31.66	10	33.27	288	344	A	V
		5410.16	47.91	-26.09	74	39.51	31.44	10.21	33.25	288	344	P	V
		5350.8	39.89	-14.11	54	31.79	31.2	10.15	33.25	288	344	A	V
802.11n HT40 CH 46 5230MHz		5120.9	53.76	-20.24	74	45.21	31.9	9.93	33.28	163	96	P	H
		5148.98	45.63	-8.37	54	37.05	31.9	9.96	33.28	163	96	A	H
	*	5230	111.98	-	-	103.79	31.42	10.04	33.27	163	96	P	H
	*	5230	103.85	-	-	95.66	31.42	10.04	33.27	163	96	A	H
		5353.32	49.7	-24.3	74	41.58	31.21	10.16	33.25	163	96	P	H
		5350	42.57	-11.43	54	34.48	31.2	10.15	33.26	163	96	A	H
		5099.58	53.23	-20.77	74	44.71	31.9	9.9	33.28	313	345	P	V
		5148.72	43.28	-10.72	54	34.7	31.9	9.96	33.28	313	345	A	V
	*	5230	107.85	-	-	99.66	31.42	10.04	33.27	313	345	P	V
	*	5230	100.77	-	-	92.58	31.42	10.04	33.27	313	345	A	V
		5370.12	48.47	-25.53	74	40.27	31.28	10.17	33.25	313	345	P	V
		5400.08	40.06	-13.94	54	31.71	31.4	10.2	33.25	313	345	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (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)
802.11n HT40 CH 38 5190MHz		10380	49.94	-18.26	68.2	61.59	39.64	16.02	67.31	100	0	P	H
		15570	48.91	-25.09	74	58.7	37.71	19.66	67.16	100	0	P	H
		17978	60.23	-13.77	74	59.14	49.76	20.73	69.4	100	0	P	H
		17978	50.62	-3.38	54	49.53	49.76	20.73	69.4	100	0	A	H
		10380	50.79	-17.41	68.2	62.44	39.64	16.02	67.31	100	0	P	V
		15570	48.85	-25.15	74	58.64	37.71	19.66	67.16	100	0	P	V
		17978	60.79	-13.21	74	59.7	49.76	20.73	69.4	100	0	P	V
		17978	50.29	-3.71	54	49.2	49.76	20.73	69.4	100	0	A	V
802.11n HT40 CH 46 5230MHz		10460	49.46	-18.74	68.2	60.77	39.82	16.09	67.22	100	0	P	H
		15690	49.9	-24.1	74	59.87	37.59	19.68	67.24	100	0	P	H
		17978	61.86	-12.14	74	60.77	49.76	20.73	69.4	100	0	P	H
		17978	50.66	-3.34	54	49.57	49.76	20.73	69.4	100	0	A	H
		10460	52.62	-15.58	68.2	63.93	39.82	16.09	67.22	100	0	P	V
		15690	48.09	-25.91	74	58.06	37.59	19.68	67.24	100	0	P	V
		17978	60.41	-13.59	74	59.32	49.76	20.73	69.4	100	0	P	V
		17978	50.29	-3.71	54	49.2	49.76	20.73	69.4	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		5146.12	58.94	-15.06	74	50.37	31.9	9.95	33.28	167	93	P	H
		5150	50.55	-3.45	54	41.97	31.9	9.96	33.28	167	93	A	H
	*	5210	104.24	-	-	95.95	31.54	10.02	33.27	167	93	P	H
	*	5210	96.45	-	-	88.16	31.54	10.02	33.27	167	93	A	H
		5443.2	49.07	-24.93	74	40.49	31.57	10.26	33.25	167	93	P	H
		5350	41.14	-12.86	54	33.05	31.2	10.15	33.26	167	93	A	H
		5146.9	55.62	-18.38	74	47.05	31.9	9.95	33.28	100	1	P	V
		5141.96	46.33	-7.67	54	37.76	31.9	9.95	33.28	100	1	A	V
	*	5210	102.03	-	-	93.74	31.54	10.02	33.27	100	1	P	V
	*	5210	94.71	-	-	86.42	31.54	10.02	33.27	100	1	A	V
		5457.48	48.46	-25.54	74	39.79	31.63	10.28	33.24	100	1	P	V
		5399.8	40.14	-13.86	54	31.79	31.4	10.2	33.25	100	1	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	49.84	-18.36	68.2	61.32	39.74	16.05	67.27	100	0	P	H
		15630	48.56	-25.44	74	58.56	37.53	19.67	67.2	100	0	P	H
		17978	60.9	-13.1	74	59.81	49.76	20.73	69.4	100	0	P	H
		17978	50.61	-3.39	54	49.52	49.76	20.73	69.4	100	0	A	H
		10420	50.3	-17.9	68.2	61.78	39.74	16.05	67.27	100	0	P	V
		15630	48.3	-25.7	74	58.3	37.53	19.67	67.2	100	0	P	V
		17978	60.51	-13.49	74	59.42	49.76	20.73	69.4	100	0	P	V
		17978	50.28	-3.72	54	49.19	49.76	20.73	69.4	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 802.11a (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		5147.56	52.84	-21.16	74	44.27	31.9	9.95	33.28	153	93	P	H
		5140.08	43.63	-10.37	54	35.06	31.9	9.95	33.28	153	93	A	H
	*	5260	115.69	-	-	107.6	31.28	10.07	33.26	153	93	P	H
	*	5260	108.24	-	-	100.15	31.28	10.07	33.26	153	93	A	H
		5366.88	52.34	-21.66	74	44.15	31.27	10.17	33.25	153	93	P	H
		5350.08	43.96	-10.04	54	35.86	31.2	10.15	33.25	153	93	A	H
		5130.56	51.34	-22.66	74	42.78	31.9	9.94	33.28	103	2	P	V
		5140.08	42.2	-11.8	54	33.63	31.9	9.95	33.28	103	2	A	V
	*	5260	112.93	-	-	104.84	31.28	10.07	33.26	103	2	P	V
	*	5260	105.55	-	-	97.46	31.28	10.07	33.26	103	2	A	V
		5445.84	49.49	-24.51	74	40.9	31.58	10.26	33.25	103	2	P	V
		5350.32	42.03	-11.97	54	33.93	31.2	10.15	33.25	103	2	A	V
802.11a CH 60 5300MHz		5102.34	51.32	-22.68	74	42.79	31.9	9.91	33.28	153	95	P	H
		5139.06	42.62	-11.38	54	34.05	31.9	9.95	33.28	153	95	A	H
	*	5300	114.78	-	-	106.74	31.2	10.1	33.26	153	95	P	H
	*	5300	107.54	-	-	99.5	31.2	10.1	33.26	153	95	A	H
		5360.16	53.02	-20.98	74	44.87	31.24	10.16	33.25	153	95	P	H
		5350.32	45.59	-8.41	54	37.49	31.2	10.15	33.25	153	95	A	H
		5103.02	50.39	-23.61	74	41.86	31.9	9.91	33.28	100	1	P	V
		5146.2	41.68	-12.32	54	33.11	31.9	9.95	33.28	100	1	A	V
	*	5300	111.62	-	-	103.58	31.2	10.1	33.26	100	1	P	V
	*	5300	104.34	-	-	96.3	31.2	10.1	33.26	100	1	A	V
		5351.04	51.71	-22.29	74	43.61	31.2	10.15	33.25	100	1	P	V
		5350.32	43.69	-10.31	54	35.59	31.2	10.15	33.25	100	1	A	V

802.11a CH 64 5320MHz	*	5320	115.44	-	-	107.38	31.2	10.12	33.26	156	95	P	H
	*	5320	107.57	-	-	99.51	31.2	10.12	33.26	156	95	A	H
		5351.2	55.97	-18.03	74	47.87	31.2	10.15	33.25	156	95	P	H
		5350.08	48.12	-5.88	54	40.02	31.2	10.15	33.25	156	95	A	H
	*	5320	111.09	-	-	103.03	31.2	10.12	33.26	100	2	P	V
	*	5320	103.75	-	-	95.69	31.2	10.12	33.26	100	2	A	V
		5350.88	51.33	-22.67	74	43.23	31.2	10.15	33.25	100	2	P	V
		5351.84	44.91	-9.09	54	36.8	31.21	10.15	33.25	100	2	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (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	49.7	-18.5	68.2	60.87	39.86	16.14	67.17	100	0	P	H
		15780	47.91	-26.09	74	58.16	37.36	19.7	67.31	100	0	P	H
		17989	61.14	-12.86	74	59.77	50.08	20.73	69.44	100	0	P	H
		17989	50.87	-3.13	54	49.5	50.08	20.73	69.44	100	0	A	H
		10520	54.35	-13.85	68.2	65.52	39.86	16.14	67.17	100	0	P	V
		15780	48.16	-25.84	74	58.41	37.36	19.7	67.31	100	0	P	V
		17989	61.08	-12.92	74	59.71	50.08	20.73	69.44	100	0	P	V
		17989	50.57	-3.43	54	49.2	50.08	20.73	69.44	100	0	A	V
802.11a CH 60 5300MHz		10600	49.04	-24.96	74	60.25	39.7	16.2	67.11	100	0	P	H
		15900	48.24	-25.76	74	58.71	37.2	19.72	67.39	100	0	P	H
		17989	61.88	-12.12	74	60.51	50.08	20.73	69.44	100	0	P	H
		17989	50.75	-3.25	54	49.38	50.08	20.73	69.44	100	0	A	H
		10600	49.19	-24.81	74	60.4	39.7	16.2	67.11	100	0	P	V
		15900	47.9	-26.1	74	58.37	37.2	19.72	67.39	100	0	P	V
		17989	61.89	-12.11	74	60.52	50.08	20.73	69.44	100	0	P	V
		17989	50.66	-3.34	54	49.29	50.08	20.73	69.44	100	0	A	V
802.11a CH 64 5320MHz		10640	48.51	-25.49	74	59.56	39.78	16.25	67.08	100	0	P	H
		15960	48.5	-25.5	74	58.82	37.38	19.73	67.43	100	0	P	H
		17989	60.68	-13.32	74	59.31	50.08	20.73	69.44	100	0	P	H
		17989	50.95	-3.05	54	49.58	50.08	20.73	69.44	100	0	A	H
		10640	55.47	-18.53	74	66.52	39.78	16.25	67.08	180	0	P	V
		10640	43.97	-10.03	54	55.02	39.78	16.25	67.08	180	0	A	V
		15960	48.74	-25.26	74	59.06	37.38	19.73	67.43	100	0	P	V
		17989	60.86	-13.14	74	59.49	50.08	20.73	69.44	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 802.11n HT20 (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)
802.11n HT20 CH 52 5260MHz		5141.1	54.03	-19.97	74	45.46	31.9	9.95	33.28	164	93	P	H
		5140.08	44.45	-9.55	54	35.88	31.9	9.95	33.28	164	93	A	H
	*	5260	115.31	-	-	107.22	31.28	10.07	33.26	164	93	P	H
	*	5260	108.26	-	-	100.17	31.28	10.07	33.26	164	93	A	H
		5369.28	51.03	-22.97	74	42.83	31.28	10.17	33.25	164	93	P	H
		5350.08	44.16	-9.84	54	36.06	31.2	10.15	33.25	164	93	A	H
		5106.76	51.03	-22.97	74	42.5	31.9	9.91	33.28	113	0	P	V
		5140.08	42.74	-11.26	54	34.17	31.9	9.95	33.28	113	0	A	V
	*	5260	112.66	-	-	104.57	31.28	10.07	33.26	113	0	P	V
	*	5260	105.39	-	-	97.3	31.28	10.07	33.26	113	0	A	V
		5351.28	50.77	-23.23	74	42.66	31.21	10.15	33.25	113	0	P	V
		5350.56	42.27	-11.73	54	34.17	31.2	10.15	33.25	113	0	A	V
802.11n HT20 CH 60 5300MHz		5139.4	53.21	-20.79	74	44.64	31.9	9.95	33.28	161	93	P	H
		5148.58	44.3	-9.7	54	35.72	31.9	9.96	33.28	161	93	A	H
	*	5260	115.53	-	-	107.44	31.28	10.07	33.26	161	93	P	H
	*	5260	107.98	-	-	99.89	31.28	10.07	33.26	161	93	A	H
		5351.52	51.83	-22.17	74	43.72	31.21	10.15	33.25	161	93	P	H
		5352.48	43.89	-10.11	54	35.78	31.21	10.15	33.25	161	93	A	H
		5128.18	51.49	-22.51	74	42.94	31.9	9.93	33.28	102	2	P	V
		5140.08	42.28	-11.72	54	33.71	31.9	9.95	33.28	102	2	A	V
	*	5260	112.26	-	-	104.17	31.28	10.07	33.26	102	2	P	V
	*	5260	105.07	-	-	96.98	31.28	10.07	33.26	102	2	A	V
		5375.28	50.51	-23.49	74	42.28	31.3	10.18	33.25	102	2	P	V
		5350.08	42.08	-11.92	54	33.98	31.2	10.15	33.25	102	2	A	V

802.11n HT20 CH 64 5320MHz	*	5320	114.29	-	-	106.23	31.2	10.12	33.26	153	95	P	H
	*	5320	107.28	-	-	99.22	31.2	10.12	33.26	153	95	A	H
		5351.52	55.13	-18.87	74	47.02	31.21	10.15	33.25	153	95	P	H
		5350.24	48.08	-5.92	54	39.98	31.2	10.15	33.25	153	95	A	H
	*	5320	111.65	-	-	103.59	31.2	10.12	33.26	100	1	P	V
	*	5320	104.39	-	-	96.33	31.2	10.12	33.26	100	1	A	V
		5357.6	52.55	-21.45	74	44.41	31.23	10.16	33.25	100	1	P	V
		5351.04	45.21	-8.79	54	37.11	31.2	10.15	33.25	100	1	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (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)
802.11n HT20 CH 52 5260MHz		10520	50.86	-17.34	68.2	62.03	39.86	16.14	67.17	100	0	P	H
		15780	49.59	-24.41	74	59.84	37.36	19.7	67.31	100	0	P	H
		17989	61.08	-12.92	74	59.71	50.08	20.73	69.44	100	0	P	H
		17989	50.99	-3.01	54	49.62	50.08	20.73	69.44	100	0	A	H
		10520	53.9	-14.3	68.2	65.07	39.86	16.14	67.17	100	0	P	V
		15780	49.73	-24.27	74	59.98	37.36	19.7	67.31	100	0	P	V
		17989	60.79	-13.21	74	59.42	50.08	20.73	69.44	100	0	P	V
		17989	50.77	-3.23	54	49.4	50.08	20.73	69.44	100	0	A	V
802.11n HT20 CH 60 5300MHz		10600	49.39	-24.61	74	60.6	39.7	16.2	67.11	100	0	P	H
		15900	48.38	-25.62	74	58.85	37.2	19.72	67.39	100	0	P	H
		17978	60.04	-13.96	74	58.95	49.76	20.73	69.4	100	0	P	H
		17978	50.48	-3.52	54	49.39	49.76	20.73	69.4	100	0	A	H
		10600	56.67	-17.33	74	67.88	39.7	16.2	67.11	203	354	P	V
		10600	45.34	-8.66	54	56.55	39.7	16.2	67.11	203	354	A	V
		15900	48.02	-25.98	74	58.49	37.2	19.72	67.39	100	0	P	V
		17978	59.96	-14.04	74	58.87	49.76	20.73	69.4	100	0	P	V
		17978	50.21	-3.79	54	49.12	49.76	20.73	69.4	100	0	A	V
802.11n HT20 CH 64 5320MHz		10640	52.16	-21.84	74	63.21	39.78	16.25	67.08	252	37	P	H
		10640	42.02	-11.98	54	53.07	39.78	16.25	67.08	252	37	A	H
		15960	47.44	-26.56	74	57.76	37.38	19.73	67.43	100	0	P	H
		17978	60.98	-13.02	74	59.89	49.76	20.73	69.4	100	0	P	H
		17978	50.57	-3.43	54	49.48	49.76	20.73	69.4	100	0	A	H
		10640	57.38	-16.62	74	68.43	39.78	16.25	67.08	197	353	P	V
		10640	45.12	-8.88	54	56.17	39.78	16.25	67.08	197	353	A	V
		15960	48.32	-25.68	74	58.64	37.38	19.73	67.43	100	0	P	V
		17978	60.97	-13.03	74	59.88	49.76	20.73	69.4	100	0	P	V
		17978	50.33	-3.67	54	49.24	49.76	20.73	69.4	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 802.11n HT40 (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)
802.11n HT40 CH 54 5270MHz		5149.26	51.83	-22.17	74	43.25	31.9	9.96	33.28	146	93	P	H
		5149.94	43.47	-10.53	54	34.89	31.9	9.96	33.28	146	93	A	H
	*	5270	111.31	-	-	103.23	31.26	10.08	33.26	146	93	P	H
	*	5270	104.37	-	-	96.29	31.26	10.08	33.26	146	93	A	H
		5362.8	52.6	-21.4	74	44.44	31.25	10.16	33.25	146	93	P	H
		5350.8	45.02	-8.98	54	36.92	31.2	10.15	33.25	146	93	A	H
		5116.28	51.85	-22.15	74	43.31	31.9	9.92	33.28	109	0	P	V
		5149.94	42.62	-11.38	54	34.04	31.9	9.96	33.28	109	0	A	V
	*	5270	108.34	-	-	100.26	31.26	10.08	33.26	109	0	P	V
	*	5270	101	-	-	92.92	31.26	10.08	33.26	109	0	A	V
		5378.88	50.22	-23.78	74	41.97	31.32	10.18	33.25	109	0	P	V
		5351.28	43.3	-10.7	54	35.19	31.21	10.15	33.25	109	0	A	V
802.11n HT40 CH 62 5310MHz		5142.12	52.23	-21.77	74	43.66	31.9	9.95	33.28	156	94	P	H
		5146.54	42.38	-11.62	54	33.81	31.9	9.95	33.28	156	94	A	H
	*	5310	110.08	-	-	102.03	31.2	10.11	33.26	156	94	P	H
	*	5310	102.71	-	-	94.66	31.2	10.11	33.26	156	94	A	H
		5350.32	57.45	-16.55	74	49.35	31.2	10.15	33.25	156	94	P	H
		5350.56	50.68	-3.32	54	42.58	31.2	10.15	33.25	156	94	A	H
		5147.22	50.78	-23.22	74	42.21	31.9	9.95	33.28	100	1	P	V
		5147.9	41.66	-12.34	54	33.08	31.9	9.96	33.28	100	1	A	V
	*	5310	107.01	-	-	98.96	31.2	10.11	33.26	100	1	P	V
	*	5310	99.94	-	-	91.89	31.2	10.11	33.26	100	1	A	V
		5351.76	53.53	-20.47	74	45.42	31.21	10.15	33.25	100	1	P	V
		5351.04	47.44	-6.56	54	39.34	31.2	10.15	33.25	100	1	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (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)
802.11n HT40 CH 54 5270MHz		10540	50	-18.2	68.2	61.17	39.82	16.16	67.15	100	0	P	H
		15810	48.2	-25.8	74	58.54	37.29	19.7	67.33	100	0	P	H
		17978	60.78	-13.22	74	59.69	49.76	20.73	69.4	100	0	P	H
		17978	50.32	-3.68	54	49.23	49.76	20.73	69.4	100	0	A	H
		10540	50.36	-17.84	68.2	61.53	39.82	16.16	67.15	100	0	P	V
		15810	47.84	-26.16	74	58.18	37.29	19.7	67.33	100	0	P	V
		17978	60.52	-13.48	74	59.43	49.76	20.73	69.4	100	0	P	V
		17978	50.21	-3.79	54	49.12	49.76	20.73	69.4	100	0	A	V
802.11n HT40 CH 62 5310MHz		10620	48.57	-25.43	74	59.7	39.74	16.22	67.09	100	0	P	H
		15930	47.84	-26.16	74	58.23	37.29	19.73	67.41	100	0	P	H
		17978	59.66	-14.34	74	58.57	49.76	20.73	69.4	100	0	P	H
		17978	50.58	-3.42	54	49.49	49.76	20.73	69.4	100	0	A	H
		10620	52.38	-21.62	74	63.51	39.74	16.22	67.09	192	354	P	V
		10620	41.91	-12.09	54	53.04	39.74	16.22	67.09	192	354	A	V
		15930	48.38	-25.62	74	58.77	37.29	19.73	67.41	100	0	P	V
		17978	60.14	-13.86	74	59.05	49.76	20.73	69.4	100	0	P	V
		17978	50.23	-3.77	54	49.14	49.76	20.73	69.4	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		5116.62	50.83	-23.17	74	42.29	31.9	9.92	33.28	157	94	P	H
		5147.9	42.31	-11.69	54	33.73	31.9	9.96	33.28	157	94	A	H
	*	5290	104.7	-	-	96.64	31.22	10.1	33.26	157	94	P	H
	*	5290	97.38	-	-	89.32	31.22	10.1	33.26	157	94	A	H
		5351.04	56.86	-17.14	74	48.76	31.2	10.15	33.25	157	94	P	H
		5350.08	50.59	-3.41	54	42.49	31.2	10.15	33.25	157	94	A	H
		5144.16	50.16	-23.84	74	41.59	31.9	9.95	33.28	100	0	P	V
		5147.56	41.63	-12.37	54	33.06	31.9	9.95	33.28	100	0	A	V
	*	5290	102	-	-	93.94	31.22	10.1	33.26	100	0	P	V
	*	5290	94.1	-	-	86.04	31.22	10.1	33.26	100	0	A	V
		5372.16	52.48	-21.52	74	44.27	31.29	10.17	33.25	100	0	P	V
		5350.8	46.36	-7.64	54	38.26	31.2	10.15	33.25	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 (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	48.45	-19.75	68.2	59.64	39.74	16.19	67.12	100	0	P	H
		15870	47.61	-26.39	74	58.03	37.23	19.72	67.37	100	0	P	H
		17978	60.78	-13.22	74	59.69	49.76	20.73	69.4	100	0	P	H
		17978	50.59	-3.41	54	49.5	49.76	20.73	69.4	100	0	A	H
		10580	49.59	-18.61	68.2	60.78	39.74	16.19	67.12	100	0	P	V
		15870	48.55	-25.45	74	58.97	37.23	19.72	67.37	100	0	P	V
		17978	61.57	-12.43	74	60.48	49.76	20.73	69.4	100	0	P	V
		17978	50.27	-3.73	54	49.18	49.76	20.73	69.4	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		5458.96	54.23	-19.77	74	45.55	31.64	10.28	33.24	159	95	P	H
		5469.84	54.82	-13.38	68.2	46.08	31.68	10.3	33.24	159	95	P	H
		5456.4	46.26	-7.74	54	37.59	31.63	10.28	33.24	159	95	A	H
	*	5500	114.58	-	-	105.68	31.8	10.34	33.24	159	95	P	H
	*	5500	107.01	-	-	98.11	31.8	10.34	33.24	159	95	A	H
		5455.12	53.29	-20.71	74	44.63	31.62	10.28	33.24	100	4	P	V
		5463.76	54.14	-14.06	68.2	45.43	31.66	10.29	33.24	100	4	P	V
		5458	45.17	-8.83	54	36.5	31.63	10.28	33.24	100	4	A	V
	*	5500	113.07	-	-	104.17	31.8	10.34	33.24	100	4	P	V
	*	5500	105.22	-	-	96.32	31.8	10.34	33.24	100	4	A	V
802.11a CH 116 5580MHz		5392.48	50.95	-23.05	74	42.64	31.37	10.19	33.25	156	94	P	H
		5466.4	51.29	-16.91	68.2	42.57	31.67	10.29	33.24	156	94	P	H
		5459.92	42.64	-11.36	54	33.96	31.64	10.28	33.24	156	94	A	H
	*	5580	114.61	-	-	105.79	31.64	10.45	33.27	156	94	P	H
	*	5580	107.07	-	-	98.25	31.64	10.45	33.27	156	94	A	H
		5732.87	50.67	-17.53	68.2	41.53	31.93	10.53	33.32	156	94	P	H
		5439.76	48.88	-25.12	74	40.31	31.56	10.26	33.25	304	28	P	V
		5466.64	49.31	-18.89	68.2	40.59	31.67	10.29	33.24	304	28	P	V
		5459.68	40.92	-13.08	54	32.24	31.64	10.28	33.24	304	28	A	V
	*	5580	112.28	-	-	103.46	31.64	10.45	33.27	304	28	P	V
	*	5580	104.49	-	-	95.67	31.64	10.45	33.27	304	28	A	V
		5757.125	50.87	-17.33	68.2	41.65	32.01	10.54	33.33	304	28	P	V

802.11a CH 140 5700MHz	*	5700	112.96	-	-	103.95	31.8	10.52	33.31	147	105	P	H
	*	5700	105.28	-	-	96.27	31.8	10.52	33.31	147	105	A	H
		5728.52	59.92	-8.28	68.2	50.8	31.91	10.53	33.32	147	105	P	H
	*	5700	111.73	-	-	102.72	31.8	10.52	33.31	302	30	P	V
	*	5700	104.41	-	-	95.4	31.8	10.52	33.31	302	30	A	V
		5728.04	60.15	-8.05	68.2	51.03	31.91	10.53	33.32	302	30	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (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	49.49	-24.51	74	59.47	40.3	16.54	66.82	100	0	P	H
		16500	52.62	-15.58	68.2	60.58	39.3	19.99	67.25	100	0	P	H
		17989	62.13	-11.87	74	60.76	50.08	20.73	69.44	100	0	P	H
		17989	50.72	-3.28	54	49.35	50.08	20.73	69.44	100	0	A	H
		11000	49.97	-24.03	74	59.95	40.3	16.54	66.82	100	0	P	V
		16500	50.6	-17.6	68.2	58.56	39.3	19.99	67.25	100	0	P	V
		17989	61.41	-12.59	74	60.04	50.08	20.73	69.44	100	0	P	V
		17989	50.66	-3.34	54	49.29	50.08	20.73	69.44	100	0	A	V
802.11a CH 116 5580MHz		11160	49	-25	74	59.18	39.72	16.68	66.58	100	0	P	H
		16740	50.83	-17.37	68.2	57.38	40.08	20.11	66.74	100	0	P	H
		17989	61.61	-12.39	74	60.24	50.08	20.73	69.44	100	0	P	H
		17989	50.75	-3.25	54	49.38	50.08	20.73	69.44	100	0	A	H
		11160	49.05	-24.95	74	59.23	39.72	16.68	66.58	100	0	P	V
		16740	51.38	-16.82	68.2	57.93	40.08	20.11	66.74	100	0	P	V
		17978	61.42	-12.58	74	60.33	49.76	20.73	69.4	100	0	P	V
		17978	50.36	-3.64	54	49.27	49.76	20.73	69.4	100	0	A	V
802.11a CH 140 5700MHz		11400	51.81	-22.19	74	61.35	39.8	16.89	66.23	113	338	P	H
		11400	42.17	-11.83	54	51.71	39.8	16.89	66.23	113	338	A	H
		17100	51.15	-17.05	68.2	57.22	40.1	20.29	66.46	100	0	P	H
		17989	61.02	-12.98	74	59.65	50.08	20.73	69.44	100	0	P	H
		17989	50.8	-3.2	54	49.43	50.08	20.73	69.44	100	0	A	H
		11400	53.56	-20.44	74	63.1	39.8	16.89	66.23	146	16	P	V
		11400	43.87	-10.13	54	53.41	39.8	16.89	66.23	146	16	A	V
		17989	60.46	-13.54	74	59.09	50.08	20.73	69.44	100	0	P	V
		17989	50.56	-3.44	54	49.19	50.08	20.73	69.44	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 802.11n HT20 (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)
802.11n HT20 CH 100 5500MHz		5455.76	54.16	-19.84	74	45.5	31.62	10.28	33.24	166	91	P	H
		5462.32	55	-13.2	68.2	46.3	31.65	10.29	33.24	166	91	P	H
		5459.92	46.77	-7.23	54	38.09	31.64	10.28	33.24	166	91	A	H
	*	5500	114.12	-	-	105.22	31.8	10.34	33.24	166	91	P	H
	*	5500	106.73	-	-	97.83	31.8	10.34	33.24	166	91	A	H
		5454.8	52.62	-21.38	74	43.96	31.62	10.28	33.24	106	2	P	V
		5469.52	54.6	-13.6	68.2	45.86	31.68	10.3	33.24	106	2	P	V
		5460	45.71	-8.29	54	37.03	31.64	10.28	33.24	106	2	A	V
	*	5500	112.46	-	-	103.56	31.8	10.34	33.24	106	2	P	V
	*	5500	105.03	-	-	96.13	31.8	10.34	33.24	106	2	A	V
802.11n HT20 CH 116 5580MHz		5438.56	51.61	-22.39	74	43.06	31.55	10.25	33.25	147	96	P	H
		5470	49.38	-18.82	68.2	40.64	31.68	10.3	33.24	147	96	P	H
		5459.92	43.56	-10.44	54	34.88	31.64	10.28	33.24	147	96	A	H
	*	5580	114.49	-	-	105.67	31.64	10.45	33.27	147	96	P	H
	*	5580	107.24	-	-	98.42	31.64	10.45	33.27	147	96	A	H
		5734.13	51.36	-16.84	68.2	42.21	31.94	10.53	33.32	147	96	P	H
		5408.32	48.37	-25.63	74	39.98	31.43	10.21	33.25	322	25	P	V
		5467.84	49.29	-18.91	68.2	40.57	31.67	10.29	33.24	322	25	P	V
		5459.92	41.29	-12.71	54	32.61	31.64	10.28	33.24	322	25	A	V
	*	5580	111.82	-	-	103	31.64	10.45	33.27	322	25	P	V
	*	5580	104.68	-	-	95.86	31.64	10.45	33.27	322	25	A	V
		5730.98	52.54	-15.66	68.2	43.41	31.92	10.53	33.32	322	25	P	V

802.11n HT20 CH 140 5700MHz	*	5700	113.8	-	-	104.79	31.8	10.52	33.31	159	99	P	H
	*	5700	106.2	-	-	97.19	31.8	10.52	33.31	159	99	A	H
		5727.08	60.02	-8.18	68.2	50.9	31.91	10.53	33.32	159	99	P	H
	*	5700	109.55	-	-	100.54	31.8	10.52	33.31	102	4	P	V
	*	5700	102.22	-	-	93.21	31.8	10.52	33.31	102	4	A	V
		5727.88	55.21	-12.99	68.2	46.09	31.91	10.53	33.32	102	4	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (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)
802.11n HT20 CH 100 5500MHz		11000	50.58	-23.42	74	60.56	40.3	16.54	66.82	129	350	P	H
		11000	40.72	-13.28	54	50.7	40.3	16.54	66.82	129	350	A	H
		16500	51.13	-17.07	68.2	59.09	39.3	19.99	67.25	100	0	P	H
		17978	60.24	-13.76	74	59.15	49.76	20.73	69.4	100	0	P	H
		17978	50.42	-3.58	54	49.33	49.76	20.73	69.4	100	0	A	H
		11000	51.9	-22.1	74	61.88	40.3	16.54	66.82	313	0	P	V
		11000	41.73	-12.27	54	51.71	40.3	16.54	66.82	313	0	A	V
		16500	50.1	-18.1	68.2	58.06	39.3	19.99	67.25	100	0	P	V
		17978	60.92	-13.08	74	59.83	49.76	20.73	69.4	100	0	P	V
		17978	50.22	-3.78	54	49.13	49.76	20.73	69.4	100	0	A	V
802.11n HT20 CH 116 5580MHz		11160	48.86	-25.14	74	59.04	39.72	16.68	66.58	100	0	P	H
		16740	52.64	-15.56	68.2	59.19	40.08	20.11	66.74	100	0	P	H
		17978	60.43	-13.57	74	59.34	49.76	20.73	69.4	100	0	P	H
		17978	50.65	-3.35	54	49.56	49.76	20.73	69.4	100	0	A	H
		11160	49.47	-24.53	74	59.65	39.72	16.68	66.58	100	0	P	V
		16740	51.12	-17.08	68.2	57.67	40.08	20.11	66.74	100	0	P	V
		17978	60.83	-13.17	74	59.74	49.76	20.73	69.4	100	0	P	V
		17978	50.25	-3.75	54	49.16	49.76	20.73	69.4	100	0	A	V

802.11n HT20 CH 140 5700MHz		11400	51.65	-22.35	74	61.19	39.8	16.89	66.23	108	338	P	H
		11400	41.98	-12.02	54	51.52	39.8	16.89	66.23	108	338	A	H
		17100	52.54	-15.66	68.2	58.61	40.1	20.29	66.46	100	0	P	H
		17978	60.34	-13.66	74	59.25	49.76	20.73	69.4	100	0	P	H
		17978	50.61	-3.39	54	49.52	49.76	20.73	69.4	100	0	A	H
		11400	53.85	-20.15	74	63.39	39.8	16.89	66.23	144	18	P	V
		11400	44.13	-9.87	54	53.67	39.8	16.89	66.23	144	18	A	V
		17100	50.96	-17.24	68.2	57.03	40.1	20.29	66.46	100	0	P	V
		17978	60.44	-13.56	74	59.35	49.76	20.73	69.4	100	0	P	V
		17978	50.28	-3.72	54	49.19	49.76	20.73	69.4	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 802.11n HT40 (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)
802.11n HT40 CH 102 5510MHz		5419.36	53.76	-20.24	74	45.3	31.48	10.23	33.25	158	92	P	H
		5468.08	55.43	-12.77	68.2	46.7	31.67	10.3	33.24	158	92	P	H
		5459.2	46.46	-7.54	54	37.78	31.64	10.28	33.24	158	92	A	H
	*	5510	110.13	-	-	101.24	31.78	10.35	33.24	158	92	P	H
	*	5510	102.95	-	-	94.06	31.78	10.35	33.24	158	92	A	H
		5764.37	50.8	-17.4	68.2	41.55	32.03	10.55	33.33	158	92	P	H
		5445.76	51.48	-22.52	74	42.89	31.58	10.26	33.25	100	3	P	V
		5469.52	55.33	-12.87	68.2	46.59	31.68	10.3	33.24	100	3	P	V
		5459.92	45.27	-8.73	54	36.59	31.64	10.28	33.24	100	3	A	V
	*	5510	108.32	-	-	99.43	31.78	10.35	33.24	100	3	P	V
	*	5510	100.98	-	-	92.09	31.78	10.35	33.24	100	3	A	V
		5734.445	49.95	-18.25	68.2	40.8	31.94	10.53	33.32	100	3	P	V
802.11n HT40 CH 110 5550MHz		5459.44	51.43	-22.57	74	42.75	31.64	10.28	33.24	160	91	P	H
		5469.28	51.74	-16.46	68.2	43	31.68	10.3	33.24	160	91	P	H
		5459.44	43.8	-10.2	54	35.12	31.64	10.28	33.24	160	91	A	H
	*	5550	111.3	-	-	102.45	31.7	10.41	33.26	160	91	P	H
	*	5550	103.42	-	-	94.57	31.7	10.41	33.26	160	91	A	H
		5746.415	50.27	-17.93	68.2	41.06	31.99	10.54	33.32	160	91	P	H
		5455.84	50.23	-23.77	74	41.57	31.62	10.28	33.24	138	2	P	V
		5469.28	50.37	-17.83	68.2	41.63	31.68	10.3	33.24	138	2	P	V
		5458.96	42.47	-11.53	54	33.79	31.64	10.28	33.24	138	2	A	V
	*	5550	107.02	-	-	98.17	31.7	10.41	33.26	138	2	P	V
	*	5550	100.42	-	-	91.57	31.7	10.41	33.26	138	2	A	V
		5754.605	49.97	-18.23	68.2	40.75	32.01	10.54	33.33	138	2	P	V

802.11n HT40 CH 134 5670MHz		5380.45	48.28	-25.72	74	40.03	31.32	10.18	33.25	140	99	P	H
		5466.55	48.18	-20.02	68.2	39.46	31.67	10.29	33.24	140	99	P	H
		5458.85	40.37	-13.63	54	31.69	31.64	10.28	33.24	140	99	A	H
	*	5670	111.04	-	-	102.15	31.68	10.51	33.3	140	99	P	H
	*	5670	103.47	-	-	94.58	31.68	10.51	33.3	140	99	A	H
		5726.325	56.97	-11.23	68.2	47.85	31.91	10.53	33.32	140	99	P	H
		5438.2	48.44	-25.56	74	39.89	31.55	10.25	33.25	299	28	P	V
		5469	46.73	-21.47	68.2	37.99	31.68	10.3	33.24	299	28	P	V
		5400.05	40.17	-13.83	54	31.82	31.4	10.2	33.25	299	28	A	V
	*	5670	108.07	-	-	99.18	31.68	10.51	33.3	299	28	P	V
	*	5670	100.74	-	-	91.85	31.68	10.51	33.3	299	28	A	V
		5725.8	54.43	-13.77	68.2	45.32	31.9	10.53	33.32	299	28	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (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)
802.11n HT40 CH 102 5510MHz		11020	50.08	-23.92	74	60.08	40.22	16.57	66.79	100	348	P	H
		11020	40.01	-13.99	54	50.01	40.22	16.57	66.79	100	348	A	H
		16530	50.77	-17.43	68.2	58.71	39.24	20.01	67.19	100	0	P	H
		17978	61.83	-12.17	74	60.74	49.76	20.73	69.4	100	0	P	H
		17978	50.59	-3.41	54	49.5	49.76	20.73	69.4	100	0	A	H
		11020	49.57	-24.43	74	59.57	40.22	16.57	66.79	100	0	P	V
		16530	52.13	-16.07	68.2	60.07	39.24	20.01	67.19	100	0	P	V
		17978	60.44	-13.56	74	59.35	49.76	20.73	69.4	100	0	P	V
		17978	50.27	-3.73	54	49.18	49.76	20.73	69.4	100	0	A	V
802.11n HT40 CH 110 5550MHz		11100	49.56	-24.44	74	59.7	39.9	16.63	66.67	100	0	P	H
		16650	51.44	-16.76	68.2	58.75	39.55	20.07	66.93	100	0	P	H
		17989	60.77	-13.23	74	59.4	50.08	20.73	69.44	100	0	P	H
		17989	50.6	-3.4	54	49.23	50.08	20.73	69.44	100	0	A	H
		11100	49.14	-24.86	74	59.28	39.9	16.63	66.67	100	0	P	V
		16650	50.77	-17.43	68.2	58.08	39.55	20.07	66.93	100	0	P	V
		17978	60.62	-13.38	74	59.53	49.76	20.73	69.4	100	0	P	V
		17978	50.23	-3.77	54	49.14	49.76	20.73	69.4	100	0	A	V
802.11n HT40 CH 134 5670MHz		11340	49.66	-24.34	74	59.47	39.68	16.83	66.32	100	0	P	H
		17010	51.55	-16.65	68.2	57.34	40.19	20.24	66.22	100	0	P	H
		17978	60.01	-13.99	74	58.92	49.76	20.73	69.4	100	0	P	H
		17978	50.43	-3.57	54	49.34	49.76	20.73	69.4	100	0	A	H
		11340	49.64	-24.36	74	59.45	39.68	16.83	66.32	100	0	P	V
		17010	52.13	-16.07	68.2	57.92	40.19	20.24	66.22	100	0	P	V
		17967	60.35	-13.65	74	59.54	49.44	20.72	69.35	100	0	P	V
		17967	50.6	-3.4	54	49.79	49.44	20.72	69.35	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		5458.24	58.1	-15.9	74	49.43	31.63	10.28	33.24	167	95	P	H
		5469.52	58.6	-9.6	68.2	49.86	31.68	10.3	33.24	167	95	P	H
		5453.68	50.68	-3.32	54	42.03	31.61	10.28	33.24	167	95	A	H
	*	5530	105.4	-	-	96.53	31.74	10.38	33.25	167	95	P	H
	*	5530	98.05	-	-	89.18	31.74	10.38	33.25	167	95	A	H
		5764.685	50.45	-17.75	68.2	41.2	32.03	10.55	33.33	167	95	P	H
		5458.96	61.17	-12.83	74	52.49	31.64	10.28	33.24	110	4	P	V
		5464.96	56.01	-12.19	68.2	47.3	31.66	10.29	33.24	110	4	P	V
		5454.4	49.25	-4.75	54	40.59	31.62	10.28	33.24	110	4	A	V
	*	5530	105.23	-	-	96.36	31.74	10.38	33.25	110	4	P	V
	*	5530	96.65	-	-	87.78	31.74	10.38	33.25	110	4	A	V
		5734.445	49.71	-18.49	68.2	40.56	31.94	10.53	33.32	110	4	P	V
802.11ac VHT80 CH 122 5610MHz		5405.9	50.4	-23.6	74	42.02	31.42	10.21	33.25	163	94	P	H
		5464.92	49.98	-18.22	68.2	41.27	31.66	10.29	33.24	163	94	P	H
		5456.86	41.77	-12.23	54	33.1	31.63	10.28	33.24	163	94	A	H
	*	5610	106.48	-	-	97.68	31.6	10.48	33.28	163	94	P	H
	*	5610	98.17	-	-	89.37	31.6	10.48	33.28	163	94	A	H
		5740.745	53.85	-14.35	68.2	44.67	31.96	10.54	33.32	163	94	P	H
		5454.26	48.42	-25.58	74	39.76	31.62	10.28	33.24	301	29	P	V
		5468.82	48.76	-19.44	68.2	40.02	31.68	10.3	33.24	301	29	P	V
		5458.68	40.52	-13.48	54	31.85	31.63	10.28	33.24	301	29	A	V
	*	5610	105.36	-	-	96.56	31.6	10.48	33.28	301	29	P	V
	*	5610	96.93	-	-	88.13	31.6	10.48	33.28	301	29	A	V
		5760.275	51.37	-16.83	68.2	42.14	32.02	10.54	33.33	301	29	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	49.52	-24.48	74	59.59	40.06	16.6	66.73	100	0	P	H
		16590	49.7	-18.5	68.2	57.6	39.12	20.04	67.06	100	0	P	H
		17978	60.45	-13.55	74	59.36	49.76	20.73	69.4	100	0	P	H
		17978	50.21	-3.79	54	49.12	49.76	20.73	69.4	100	0	A	H
		11060	49.26	-24.74	74	59.33	40.06	16.6	66.73	100	0	P	V
		16590	50.12	-18.08	68.2	58.02	39.12	20.04	67.06	100	0	P	V
		17978	61.51	-12.49	74	60.42	49.76	20.73	69.4	100	0	P	V
		17978	50.32	-3.68	54	49.23	49.76	20.73	69.4	100	0	A	V
802.11ac VHT80 CH 122 5610MHz		11220	48.47	-25.53	74	58.63	39.6	16.73	66.49	100	0	P	H
		16830	51.83	-16.37	68.2	58.15	40.08	20.15	66.55	100	0	P	H
		17978	60.9	-13.1	74	59.81	49.76	20.73	69.4	100	0	P	H
		17978	50.43	-3.57	54	49.34	49.76	20.73	69.4	100	0	A	H
		11220	48.93	-25.07	74	59.09	39.6	16.73	66.49	100	0	P	V
		16830	51.26	-16.94	68.2	57.58	40.08	20.15	66.55	100	0	P	V
		17978	60.07	-13.93	74	58.98	49.76	20.73	69.4	100	0	P	V
		17978	50.21	-3.79	54	49.12	49.76	20.73	69.4	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 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		5441.65	48.95	-25.05	74	40.37	31.57	10.26	33.25	134	104	P	H
		5466.22	48.29	-19.91	68.2	39.58	31.66	10.29	33.24	134	104	P	H
		5458.42	39.97	-14.03	54	31.3	31.63	10.28	33.24	134	104	A	H
	*	5720	113.76	-	-	104.66	31.88	10.53	33.31	134	104	P	H
	*	5720	106.04	-	-	96.94	31.88	10.53	33.31	134	104	A	H
		5871	51.18	-17.02	68.2	41.61	32.28	10.66	33.37	134	104	P	H
		5440.48	48.65	-25.35	74	40.08	31.56	10.26	33.25	306	31	P	V
		5460.76	46.91	-21.29	68.2	38.22	31.64	10.29	33.24	306	31	P	V
		5400.7	39.53	-14.47	54	31.18	31.4	10.2	33.25	306	31	P	V
	*	5720	112.21	-	-	103.11	31.88	10.53	33.31	306	31	P	V
	*	5720	104.62	-	-	95.52	31.88	10.53	33.31	306	31	A	V
		5901.5	51.99	-16.21	68.2	42.27	32.4	10.7	33.38	306	31	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	51.77	-22.23	74	61.14	39.88	16.92	66.17	103	336	P	H
		11440	41.6	-12.4	54	50.97	39.88	16.92	66.17	103	336	A	H
		17160	51.96	-16.24	68.2	58.17	40.1	20.32	66.63	100	0	P	H
		17989	61.6	-12.4	74	60.23	50.08	20.73	69.44	100	0	P	H
		17989	50.7	-3.3	54	49.33	50.08	20.73	69.44	100	0	A	H
		11440	53.62	-20.38	74	62.99	39.88	16.92	66.17	150	18	P	V
		11440	43.51	-10.49	54	52.88	39.88	16.92	66.17	150	18	A	V
		17160	52.73	-15.47	68.2	58.94	40.1	20.32	66.63	100	0	P	V
		17989	61.43	-12.57	74	60.06	50.08	20.73	69.44	100	0	P	V
		17989	50.57	-3.43	54	49.2	50.08	20.73	69.44	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 802.11n HT20 (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)
802.11n HT20 CH 144 5720MHz		5451.79	49.6	-24.4	74	40.96	31.61	10.27	33.24	136	98	P	H
		5468.17	49.42	-18.78	68.2	40.69	31.67	10.3	33.24	136	98	P	H
		5459.59	40.47	-13.53	54	31.79	31.64	10.28	33.24	136	98	A	H
	*	5720	114.38	-	-	105.28	31.88	10.53	33.31	136	98	P	H
	*	5720	107.01	-	-	97.91	31.88	10.53	33.31	136	98	A	H
		5855.25	50.92	-17.28	68.2	41.43	32.22	10.63	33.36	136	98	P	H
		5382.76	48.69	-25.31	74	40.43	31.33	10.18	33.25	307	30	P	V
		5462.32	47.6	-20.6	68.2	38.9	31.65	10.29	33.24	307	30	P	V
		5399.92	40.33	-13.67	54	31.98	31.4	10.2	33.25	307	30	A	V
	*	5720	111.83	-	-	102.73	31.88	10.53	33.31	307	30	P	V
	*	5720	104.53	-	-	95.43	31.88	10.53	33.31	307	30	A	V
		5903	51.79	-16.41	68.2	42.07	32.4	10.7	33.38	307	30	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (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)
802.11n HT20 CH 144 5720MHz		11440	51.56	-22.44	74	60.93	39.88	16.92	66.17	115	337	P	H
		11440	41.21	-12.79	54	50.58	39.88	16.92	66.17	115	337	A	H
		17160	51.16	-17.04	68.2	57.37	40.1	20.32	66.63	100	0	P	H
		17978	60.13	-13.87	74	59.04	49.76	20.73	69.4	100	0	P	H
		17978	50.53	-3.47	54	49.44	49.76	20.73	69.4	100	0	A	H
		11440	53.19	-20.81	74	62.56	39.88	16.92	66.17	144	19	P	V
		11440	43.38	-10.62	54	52.75	39.88	16.92	66.17	144	19	A	V
		17160	51.03	-17.17	68.2	57.24	40.1	20.32	66.63	100	0	P	V
		17978	59.92	-14.08	74	58.83	49.76	20.73	69.4	100	0	P	V
		17978	50.23	-3.77	54	49.14	49.76	20.73	69.4	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 802.11n HT40 (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)
802.11n HT40 CH 142 5710MHz		5370.67	49.25	-24.75	74	41.05	31.28	10.17	33.25	146	96	P	H
		5461.93	49.21	-18.99	68.2	40.51	31.65	10.29	33.24	146	96	P	H
		5459.2	40.48	-13.52	54	31.8	31.64	10.28	33.24	146	96	A	H
	*	5710	111.74	-	-	102.69	31.84	10.52	33.31	146	96	P	H
	*	5710	103.56	-	-	94.51	31.84	10.52	33.31	146	96	A	H
		5917.75	51.63	-16.57	68.2	41.89	32.4	10.72	33.38	146	96	P	H
		5371.45	48.26	-25.74	74	40.05	31.29	10.17	33.25	296	25	P	V
		5461.54	48	-20.2	68.2	39.3	31.65	10.29	33.24	296	25	P	V
		5399.92	40.54	-13.46	54	32.19	31.4	10.2	33.25	296	25	A	V
	*	5710	108.39	-	-	99.34	31.84	10.52	33.31	296	25	P	V
	*	5710	100.56	-	-	91.51	31.84	10.52	33.31	296	25	A	V
		5941	51.71	-16.49	68.2	41.95	32.4	10.75	33.39	296	25	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (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)
802.11n HT40 CH 142 5710MHz		11420	49.12	-24.88	74	58.58	39.84	16.9	66.2	100	0	P	H
		17130	50.79	-17.41	68.2	56.94	40.1	20.3	66.55	100	0	P	H
		17989	60.29	-13.71	74	58.92	50.08	20.73	69.44	100	0	P	H
		17989	50.59	-3.41	54	49.22	50.08	20.73	69.44	100	0	A	H
		11420	49.93	-24.07	74	59.39	39.84	16.9	66.2	100	0	P	V
		17130	50.19	-18.01	68.2	56.34	40.1	20.3	66.55	100	0	P	V
		17989	60.66	-13.34	74	59.29	50.08	20.73	69.44	100	0	P	V
		17989	50.93	-3.07	54	49.56	50.08	20.73	69.44	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		5423.71	48.89	-25.11	74	40.42	31.49	10.23	33.25	152	92	P	H
		5467.39	49.69	-18.51	68.2	40.97	31.67	10.29	33.24	152	92	P	H
		5459.98	40.72	-13.28	54	32.04	31.64	10.28	33.24	152	92	A	H
	*	5690	106.79	-	-	97.81	31.76	10.52	33.3	152	92	P	H
	*	5690	99.33	-	-	90.35	31.76	10.52	33.3	152	92	A	H
		5945.5	51.21	-16.99	68.2	41.44	32.4	10.76	33.39	152	92	P	H
		5454.52	48.84	-25.16	74	40.18	31.62	10.28	33.24	297	24	P	V
		5467	47.58	-20.62	68.2	38.86	31.67	10.29	33.24	297	24	P	V
		5399.92	40.52	-13.48	54	32.17	31.4	10.2	33.25	297	24	A	V
	*	5690	104	-	-	95.02	31.76	10.52	33.3	297	24	P	V
	*	5690	96.68	-	-	87.7	31.76	10.52	33.3	297	24	A	V
		5940.75	51.45	-16.75	68.2	41.69	32.4	10.75	33.39	297	24	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	49.87	-24.13	74	59.5	39.76	16.87	66.26	100	0	P	H
		17070	51.35	-16.85	68.2	57.33	40.13	20.27	66.38	100	0	P	H
		17967	61.57	-12.43	74	60.76	49.44	20.72	69.35	100	0	P	H
		17967	50.15	-3.85	54	49.34	49.44	20.72	69.35	100	0	A	H
		11380	49.83	-24.17	74	59.46	39.76	16.87	66.26	100	0	P	V
		17070	52.68	-15.52	68.2	58.66	40.13	20.27	66.38	100	0	P	V
		17989	60.83	-13.17	74	59.46	50.08	20.73	69.44	100	0	P	V
		17989	50.49	-3.51	54	49.12	50.08	20.73	69.44	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)

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)
5GHz 802.11ac VHT80 SHF		35996	47.88	-20.32	68.2	41.92	44.79	17.67	56.5	150	0	P	H
		35864	47.74	-20.46	68.2	42.1	44.47	17.62	56.45	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. Super High Frequency (SHF)												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

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)
5GHz 802.11ac VHT80 LF		30	26.65	-13.35	40	31.02	24.46	0.81	29.64	-	-	P	H
		127.97	30.55	-12.95	43.5	41.01	17.5	1.67	29.63	-	-	P	H
		576.11	34.78	-11.22	46	33.93	26.15	3.56	28.86	-	-	P	H
		712.88	36.68	-9.32	46	34.38	26.89	3.98	28.57	-	-	P	H
		746.83	37.33	-8.67	46	33.53	28.29	4.12	28.61	-	-	P	H
		885.54	38.63	-7.37	46	33.36	28.99	4.53	28.25	100	0	P	H
		64.92	31.19	-8.81	40	47.82	11.87	1.17	29.67	-	-	P	V
		127.97	33.49	-10.01	43.5	43.95	17.5	1.67	29.63	-	-	P	V
		455.83	28.73	-17.27	46	31.28	23.37	3.17	29.09	-	-	P	V
		576.11	33.87	-12.13	46	33.02	26.15	3.56	28.86	-	-	P	V
		706.09	36.15	-9.85	46	34.07	26.69	3.95	28.56	-	-	P	V
		896.21	38.07	-7.93	46	32.73	28.98	4.57	28.21	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

<EUT with Fixture 1>

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		5456.32	57.26	-16.74	74	48.59	31.63	10.28	33.24	241	99	P	H
		5462.08	58.17	-10.03	68.2	49.47	31.65	10.29	33.24	241	99	P	H
		5457.04	50.43	-3.57	54	41.76	31.63	10.28	33.24	241	99	A	H
	*	5530	104.75	-	-	95.88	31.74	10.38	33.25	241	99	P	H
	*	5530	97.73	-	-	88.86	31.74	10.38	33.25	241	99	A	H
		5763.425	51.18	-17.02	68.2	41.93	32.03	10.55	33.33	241	99	P	H
		5458.48	54.91	-19.09	74	46.24	31.63	10.28	33.24	348	356	P	V
		5469.28	52.77	-15.43	68.2	44.03	31.68	10.3	33.24	348	356	P	V
		5458.72	47.78	-6.22	54	39.11	31.63	10.28	33.24	348	356	A	V
	*	5530	102.39	-	-	93.52	31.74	10.38	33.25	348	356	P	V
	*	5530	95.2	-	-	86.33	31.74	10.38	33.25	348	356	A	V
		5755.865	50.12	-18.08	68.2	40.9	32.01	10.54	33.33	348	356	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	49.66	-24.34	74	59.73	40.06	16.6	66.73	100	0	P	H
		16590	50.19	-18.01	68.2	58.09	39.12	20.04	67.06	100	0	P	H
		17978	61.33	-12.67	74	60.24	49.76	20.73	69.4	100	0	P	H
		17978	50.54	-3.46	54	49.45	49.76	20.73	69.4	100	0	A	H
		11060	49.19	-24.81	74	59.26	40.06	16.6	66.73	100	0	P	V
		16590	50.33	-17.87	68.2	58.23	39.12	20.04	67.06	100	0	P	V
		17978	60.53	-13.47	74	59.44	49.76	20.73	69.4	100	0	P	V
		17978	50.42	-3.58	54	49.33	49.76	20.73	69.4	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

<EUT with Fixture 2>

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		5453.2	56.63	-17.37	74	47.99	31.61	10.27	33.24	311	94	P	H
		5464.72	58.45	-9.75	68.2	49.74	31.66	10.29	33.24	311	94	P	H
		5458.24	50.98	-3.02	54	42.31	31.63	10.28	33.24	311	94	A	H
	*	5530	105.93	-	-	97.06	31.74	10.38	33.25	311	94	P	H
	*	5530	98.8	-	-	89.93	31.74	10.38	33.25	311	94	A	H
		5752.085	52.19	-16.01	68.2	42.98	32	10.54	33.33	311	94	P	H
		5458.24	54.27	-19.73	74	45.6	31.63	10.28	33.24	394	313	P	V
		5469.52	56.46	-11.74	68.2	47.72	31.68	10.3	33.24	394	313	P	V
		5458.24	47.57	-6.43	54	38.9	31.63	10.28	33.24	394	313	A	V
	*	5530	102.81	-	-	93.94	31.74	10.38	33.25	394	313	P	V
	*	5530	96.08	-	-	87.21	31.74	10.38	33.25	394	313	A	V
		5728.145	50.54	-17.66	68.2	41.42	31.91	10.53	33.32	394	313	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	49.83	-24.17	74	59.9	40.06	16.6	66.73	100	0	P	H
		16590	51.06	-17.14	68.2	58.96	39.12	20.04	67.06	100	0	P	H
		17945	60.53	-13.47	74	60.28	48.81	20.71	69.27	100	0	P	H
		17945	49.36	-4.64	54	49.11	48.81	20.71	69.27	100	0	A	H
		11060	49.65	-24.35	74	59.72	40.06	16.6	66.73	100	0	P	V
		16590	50.15	-18.05	68.2	58.05	39.12	20.04	67.06	100	0	P	V
		17989	60.79	-13.21	74	59.42	50.08	20.73	69.44	100	0	P	V
		17989	50.71	-3.29	54	49.34	50.08	20.73	69.44	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

<EUT with Fixture 3>

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		5453.92	55.83	-18.17	74	47.17	31.62	10.28	33.24	299	82	P	H
		5470	55.19	-13.01	68.2	46.45	31.68	10.3	33.24	299	82	P	H
		5458.24	48.81	-5.19	54	40.14	31.63	10.28	33.24	299	82	A	H
	*	5530	104.04	-	-	95.17	31.74	10.38	33.25	299	82	P	H
	*	5530	96.61	-	-	87.74	31.74	10.38	33.25	299	82	A	H
		5748.62	50.7	-17.5	68.2	41.49	31.99	10.54	33.32	299	82	P	H
		5449.6	53.34	-20.66	74	44.72	31.6	10.27	33.25	159	95	P	V
		5469.52	55.42	-12.78	68.2	46.68	31.68	10.3	33.24	159	95	P	V
		5454.64	46.88	-7.12	54	38.22	31.62	10.28	33.24	159	95	A	V
	*	5530	102.85	-	-	93.98	31.74	10.38	33.25	159	95	P	V
	*	5530	96.15	-	-	87.28	31.74	10.38	33.25	159	95	A	V
		5752.4	51.47	-16.73	68.2	42.26	32	10.54	33.33	159	95	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	49.17	-24.83	74	59.24	40.06	16.6	66.73	100	0	P	H
		16590	50.25	-17.95	68.2	58.15	39.12	20.04	67.06	100	0	P	H
		17967	60.04	-13.96	74	59.23	49.44	20.72	69.35	100	0	P	H
		17967	50.06	-3.94	54	49.25	49.44	20.72	69.35	100	0	A	H
		11060	49.59	-24.41	74	59.66	40.06	16.6	66.73	100	0	P	V
		16590	50.08	-18.12	68.2	57.98	39.12	20.04	67.06	100	0	P	V
		17967	60.55	-13.45	74	59.74	49.44	20.72	69.35	100	0	P	V
		17967	50.03	-3.97	54	49.22	49.44	20.72	69.35	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

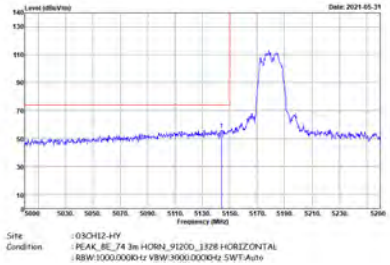
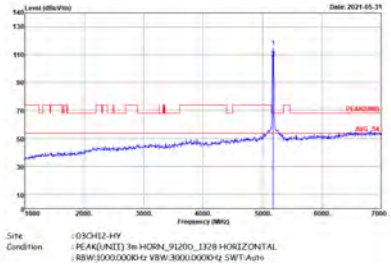
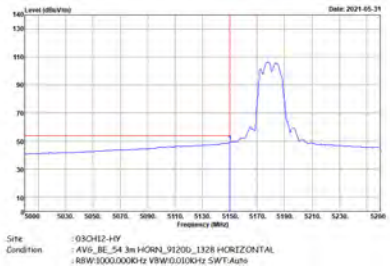
Test Engineer :	Jack Cheng, Lance Chiang and Chuan Chu	**Temperature :**	23.8~26.2℃
		Relative Humidity :	56.5~68.6%

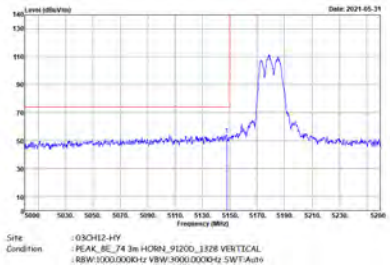
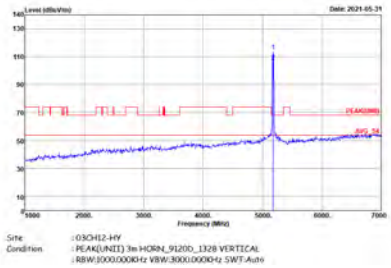
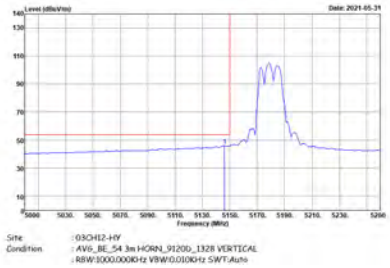
Note symbol

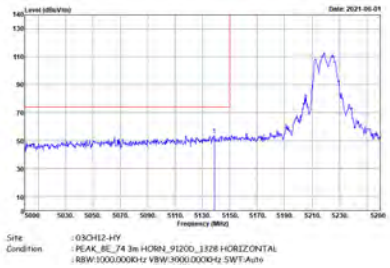
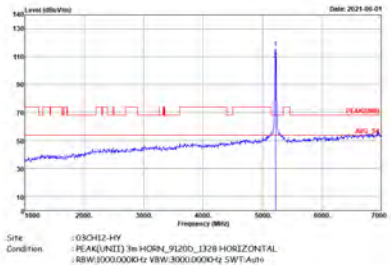
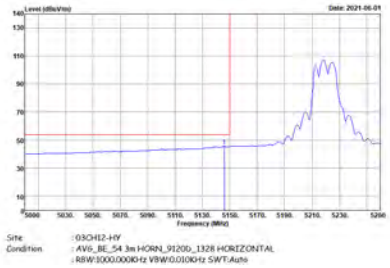
-L	**Low channel location**
-R	**High channel location**

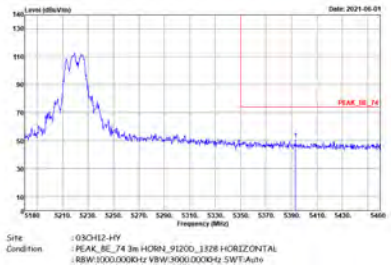
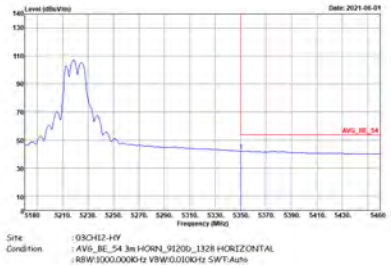
Band 1 - 5150~5250MHz

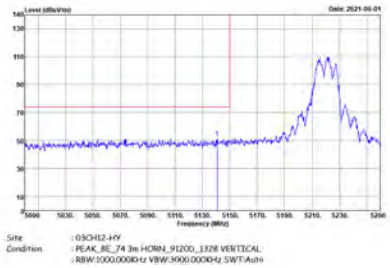
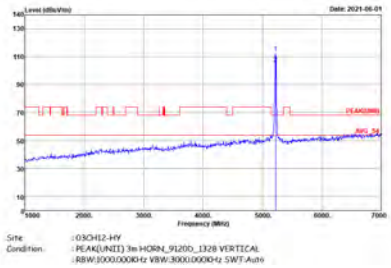
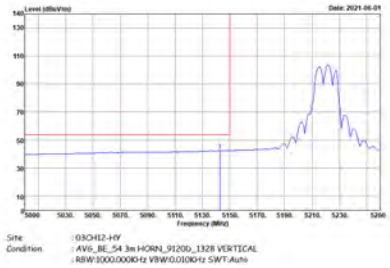
WIFI 802.11a (Band Edge @ 3m)

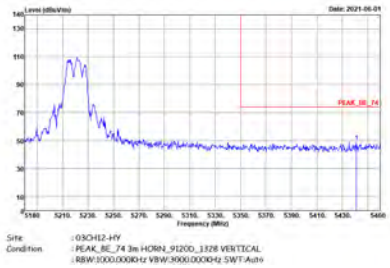
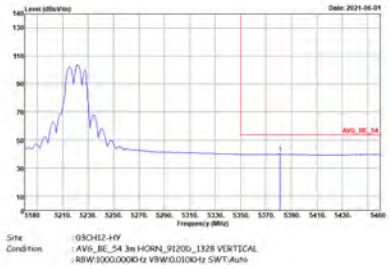
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

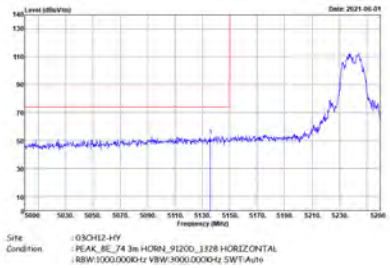
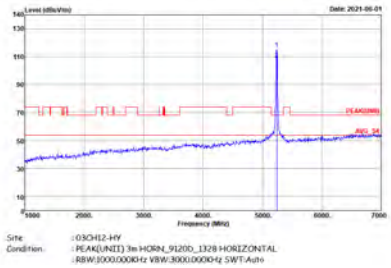
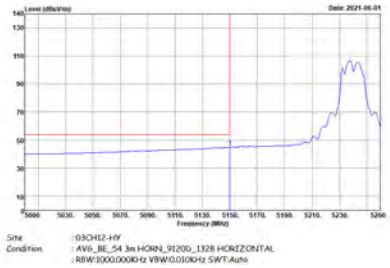
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

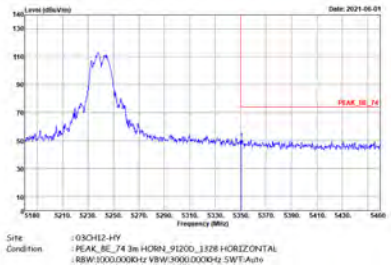
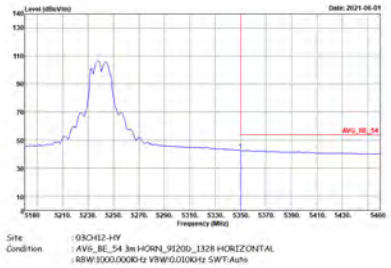
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

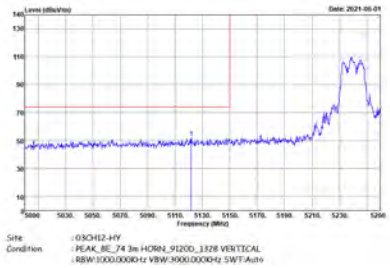
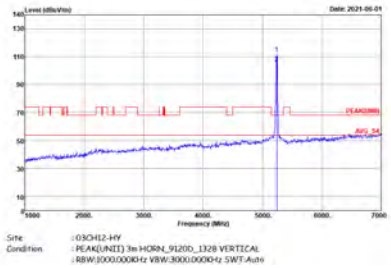
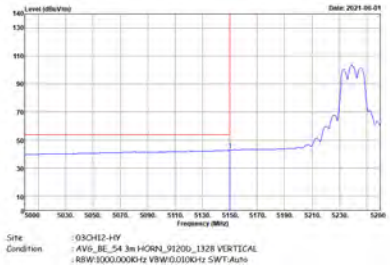
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

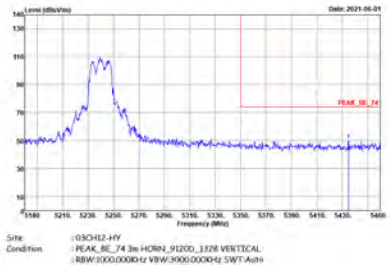
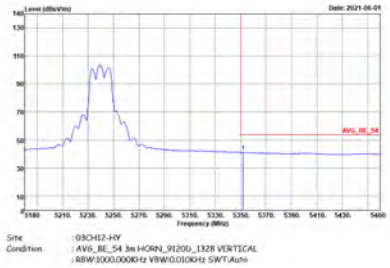
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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		
Avg.		Left blank

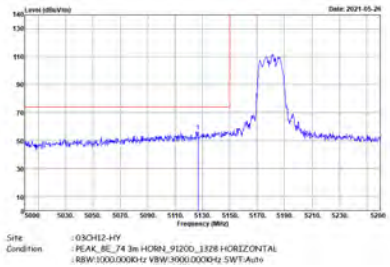
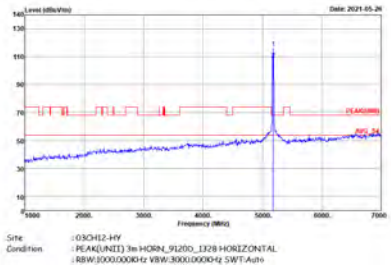
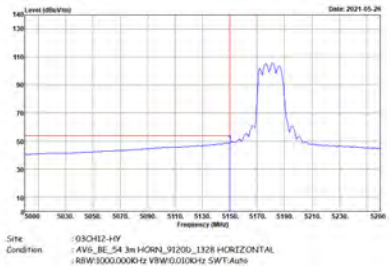
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

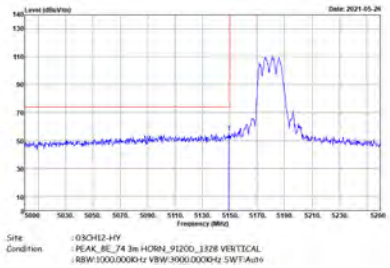
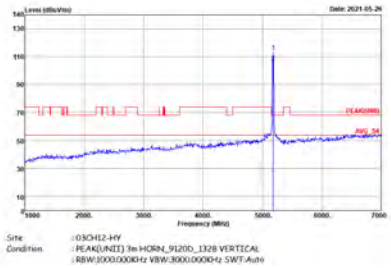
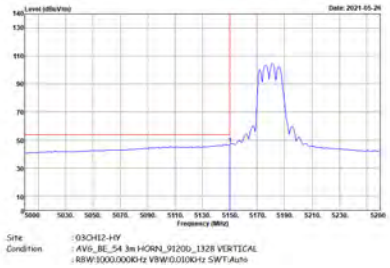
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

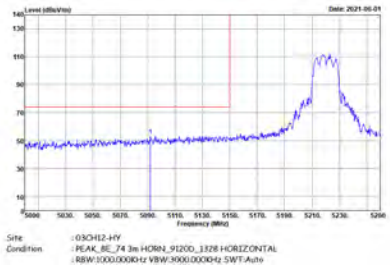
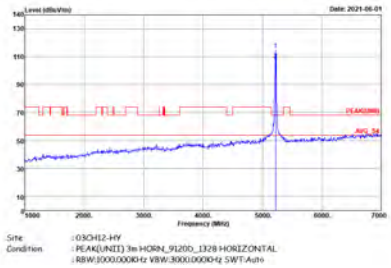
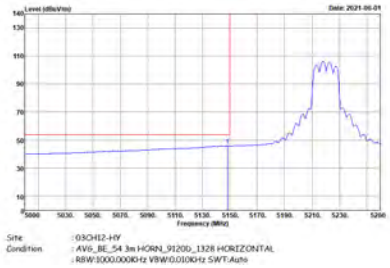
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

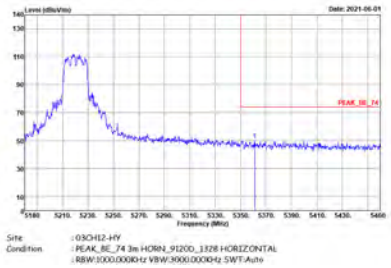
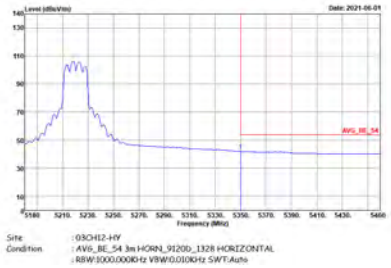
Band 1 5150~5250MHz

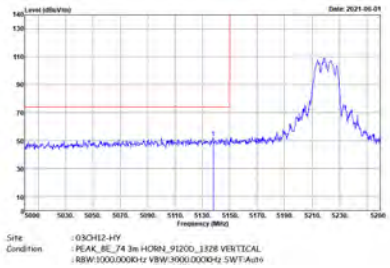
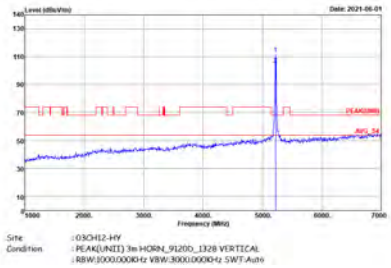
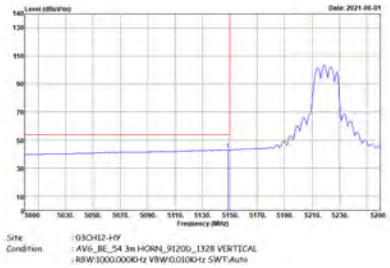
WIFI 802.11n HT20 (Band Edge @ 3m)

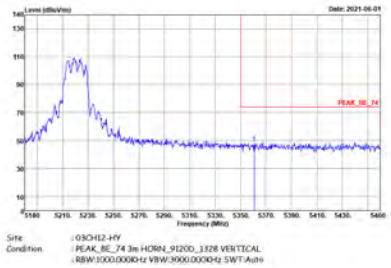
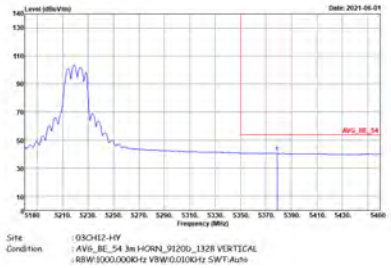
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

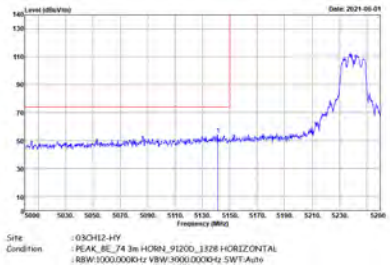
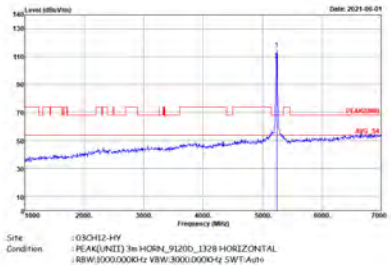
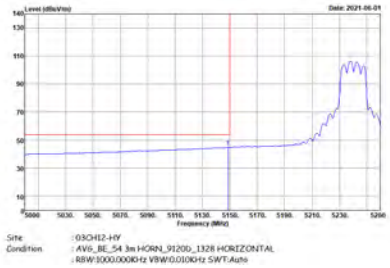
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

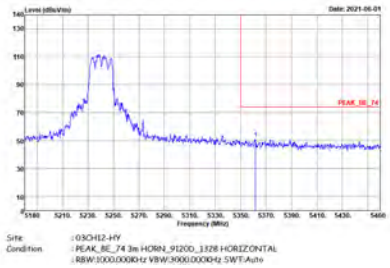
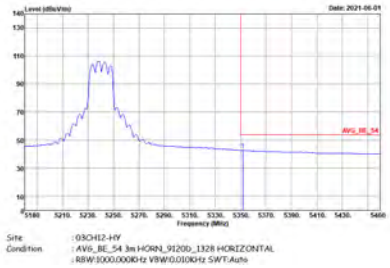
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

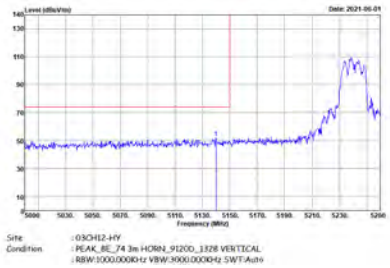
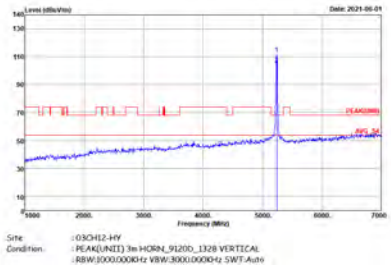
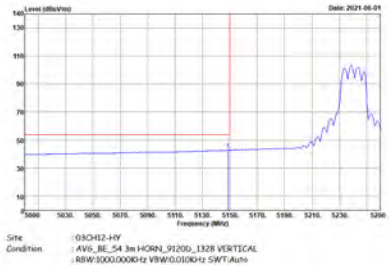
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

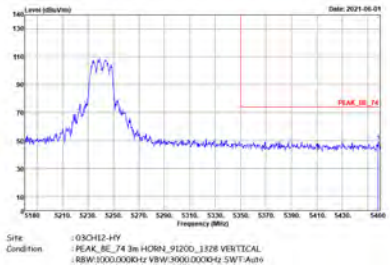
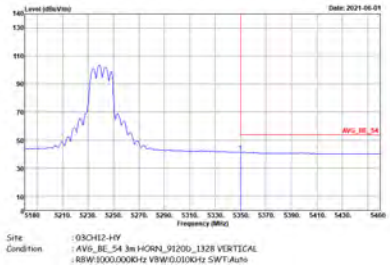
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

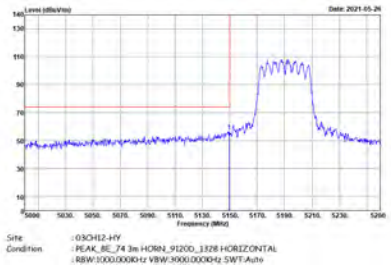
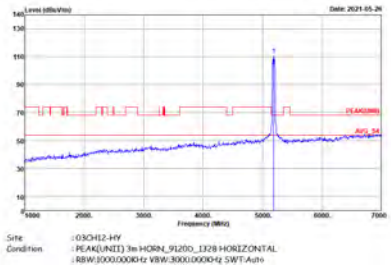
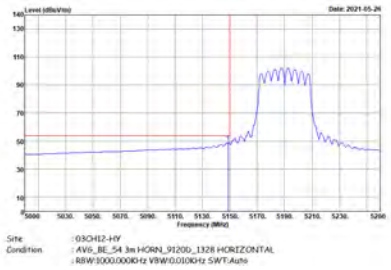
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

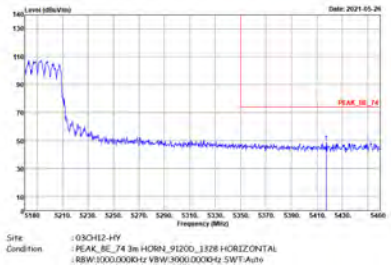
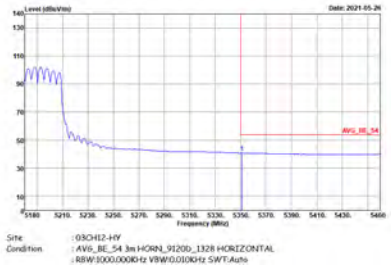
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

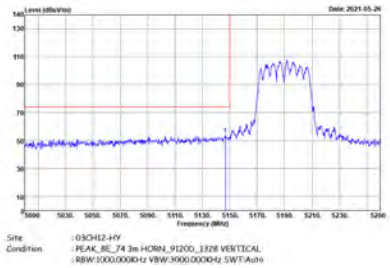
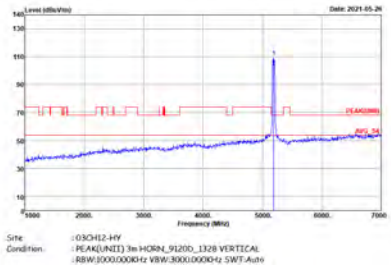
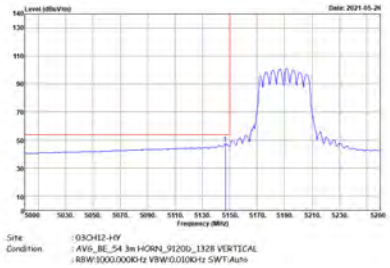
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

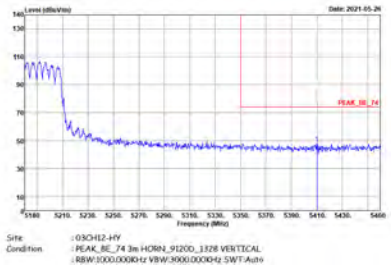
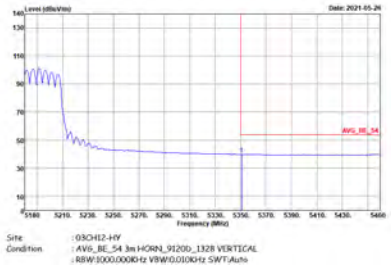
Band 1 5150~5250MHz

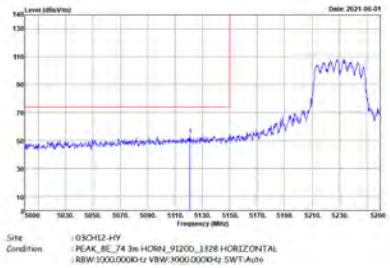
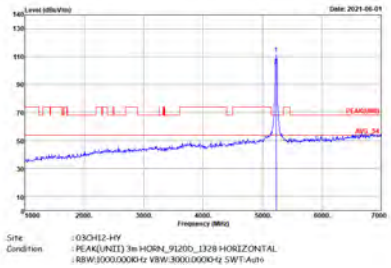
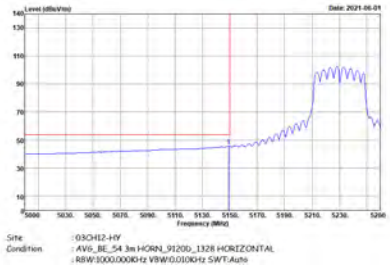
WIFI 802.11n HT40 (Band Edge @ 3m)

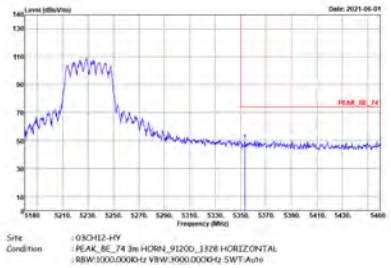
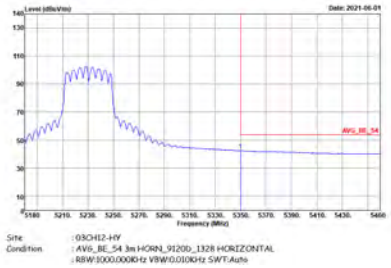
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

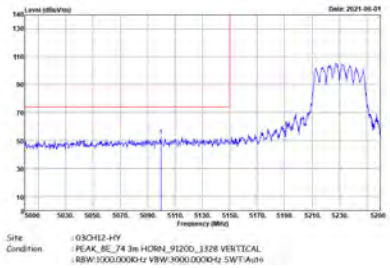
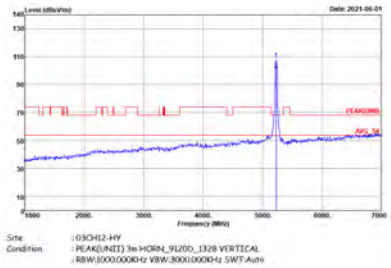
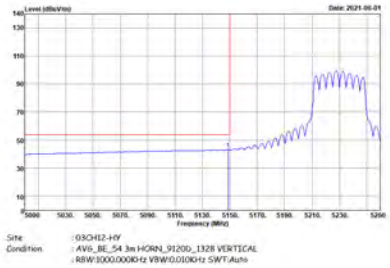
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

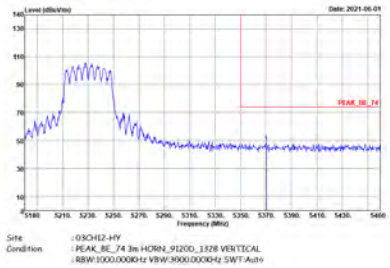
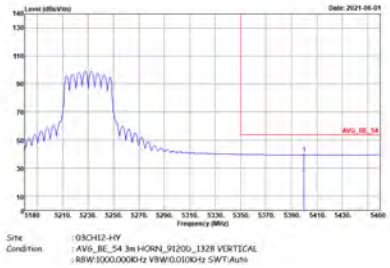
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

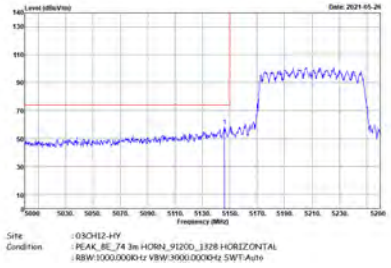
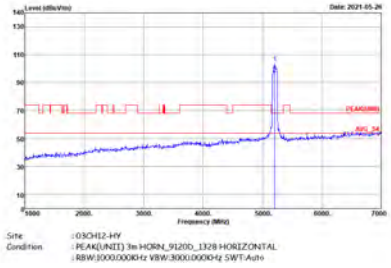
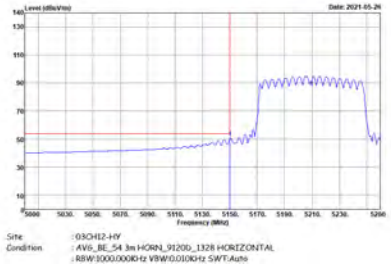
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

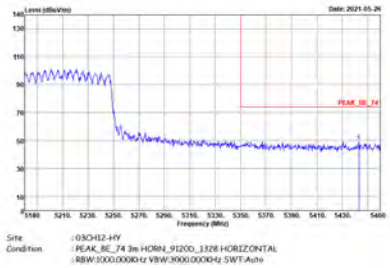
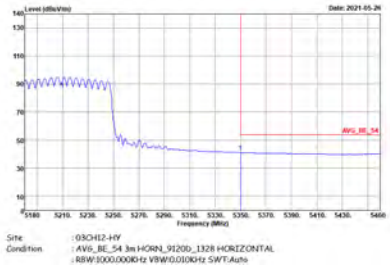
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

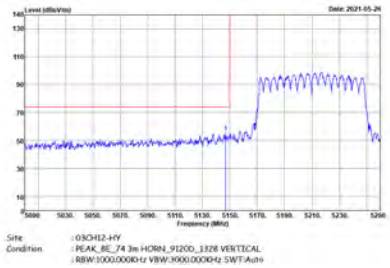
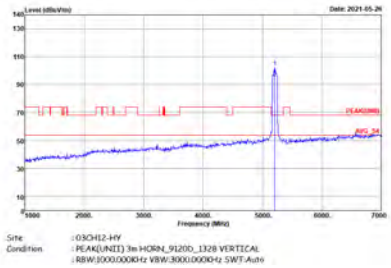
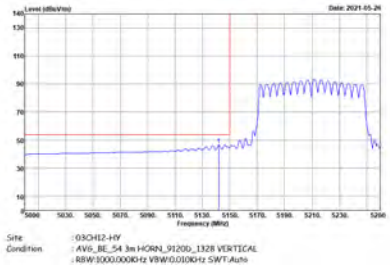
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

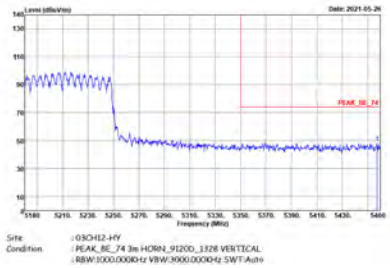
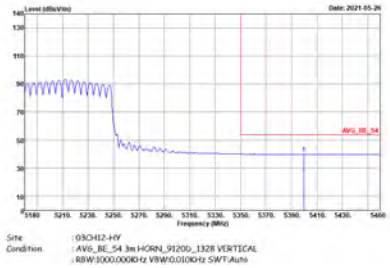
Band 1 5150~5250MHz

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

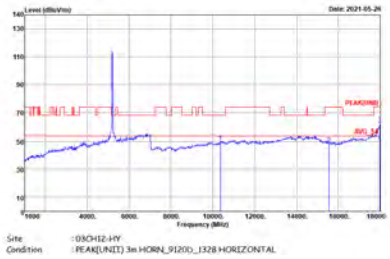
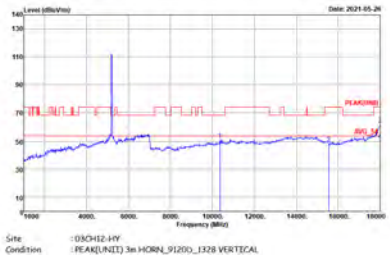
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

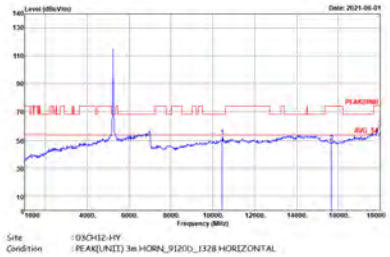
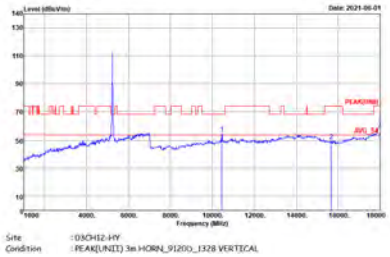
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

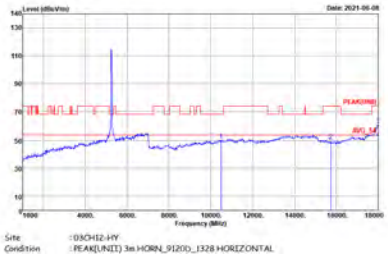
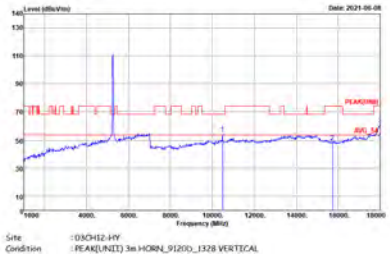
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

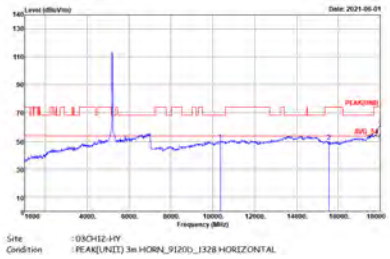
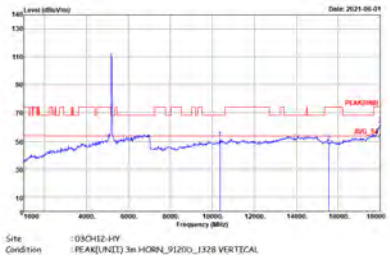
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

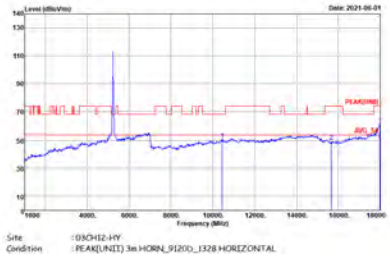
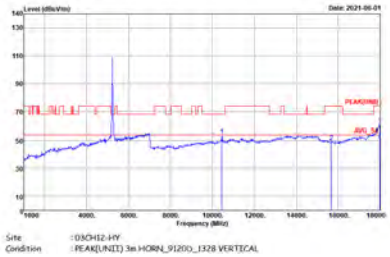
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.		

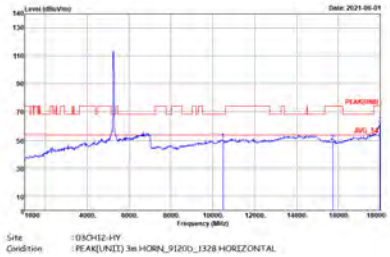
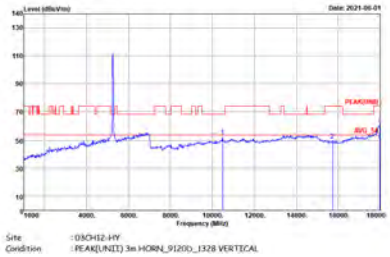
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

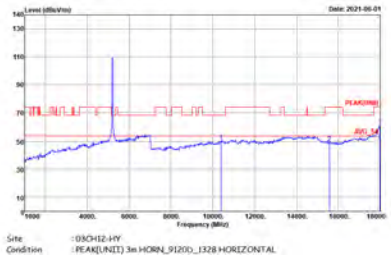
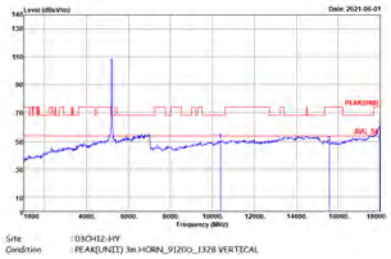
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

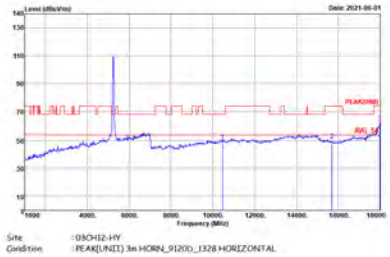
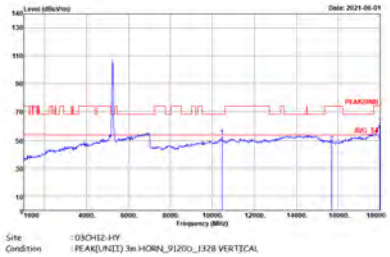
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

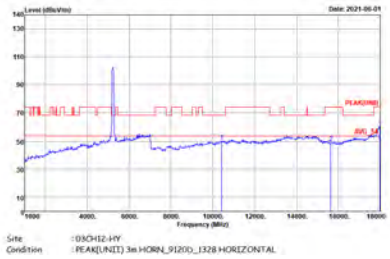
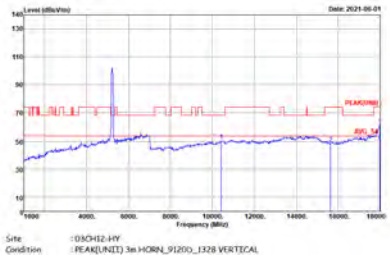
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1+2	Horizontal	Vertical
Peak Avg.		

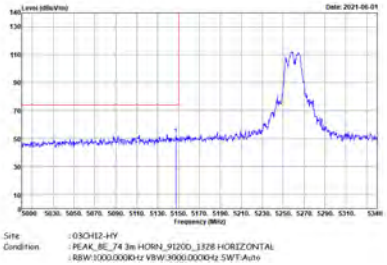
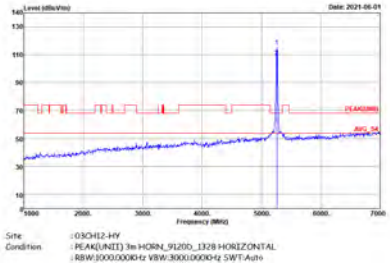
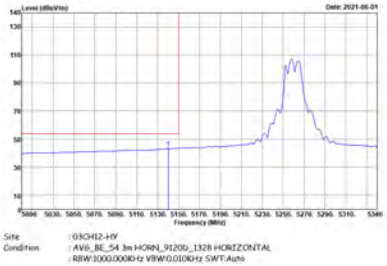
Band 1 5150~5250MHz

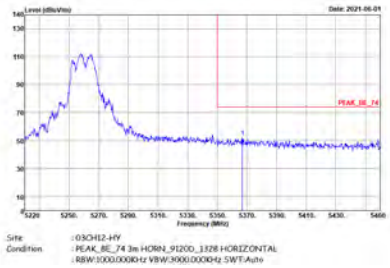
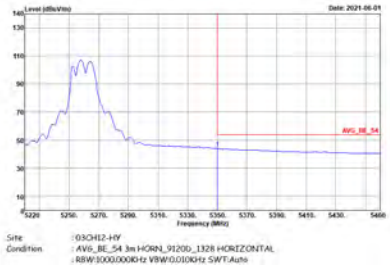
WIFI 802.11ac VHT80 (Harmonic @ 3m)

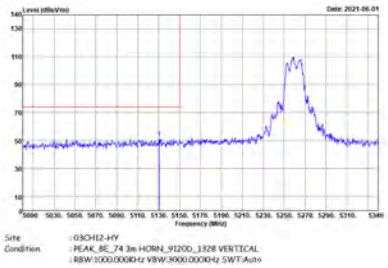
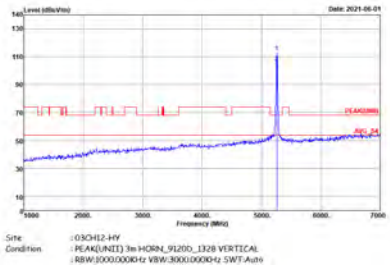
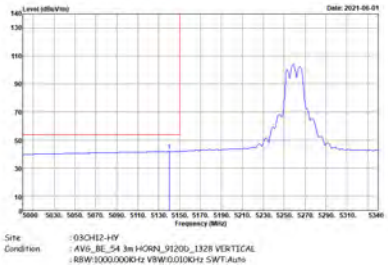
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.		

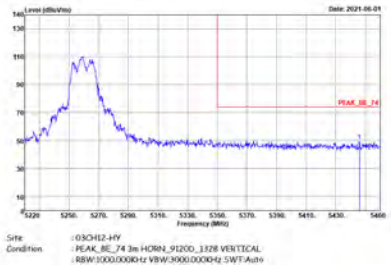
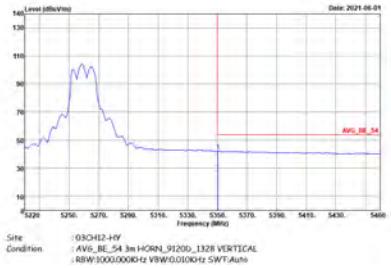
Band 2 - 5250~5350MHz

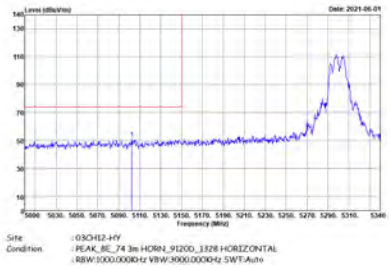
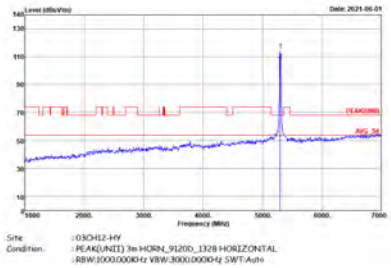
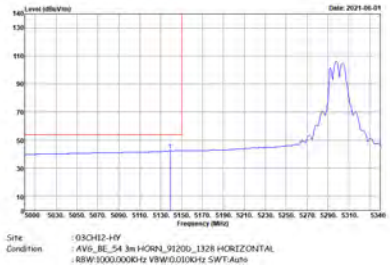
WIFI 802.11a (Band Edge @ 3m)

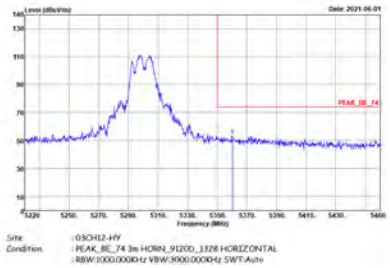
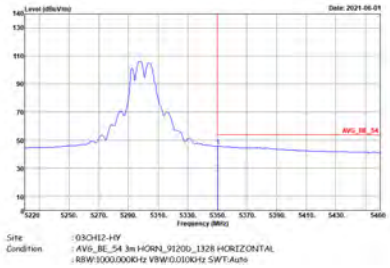
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

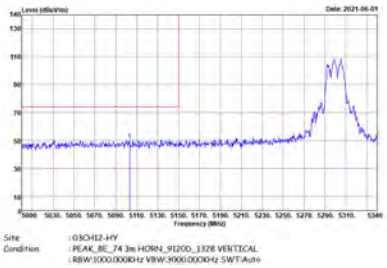
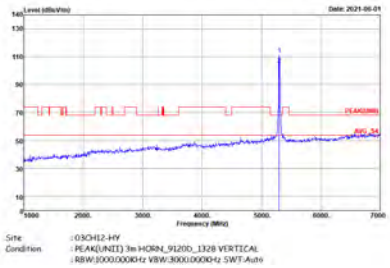
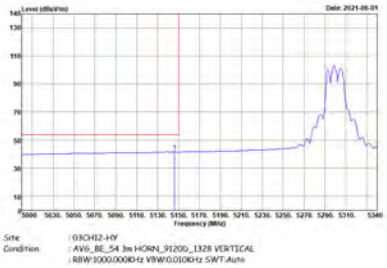
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

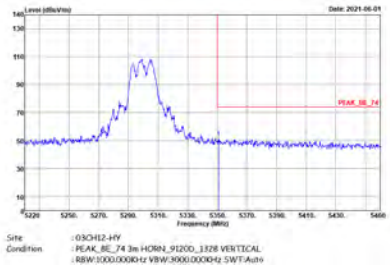
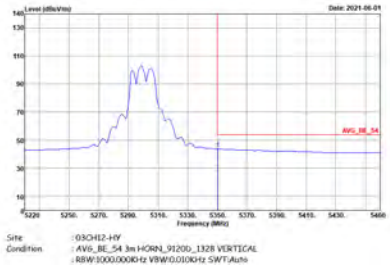
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

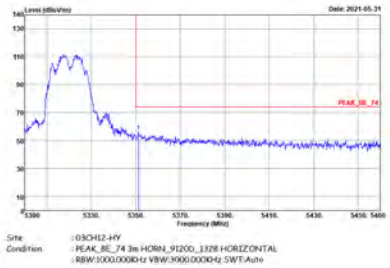
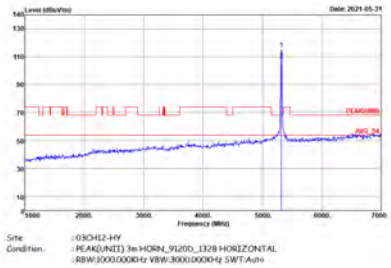
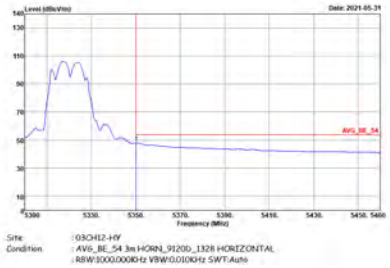
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

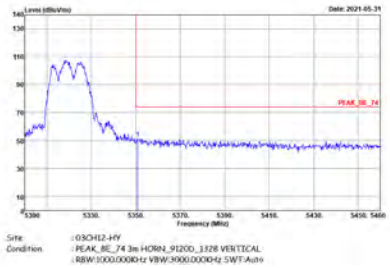
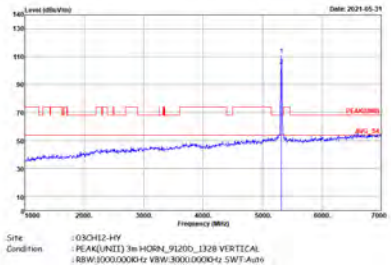
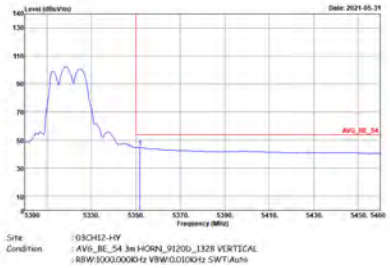
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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		
Avg.		Left blank

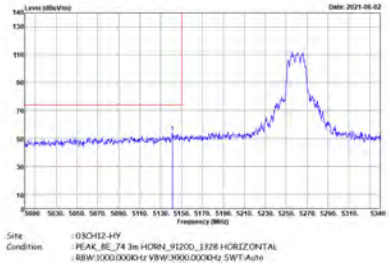
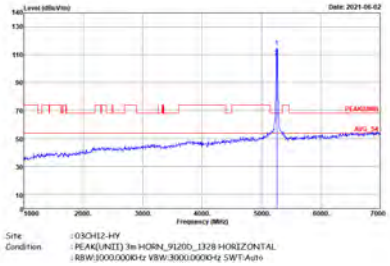
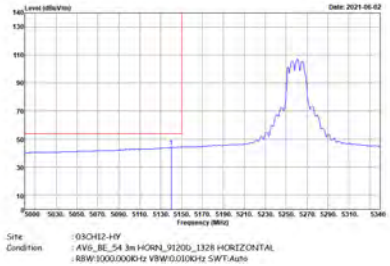
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

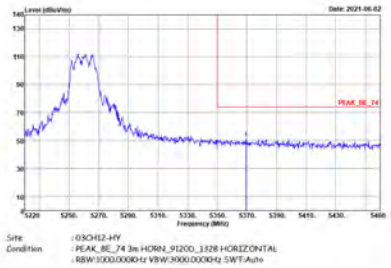
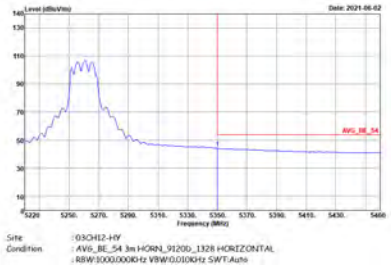
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

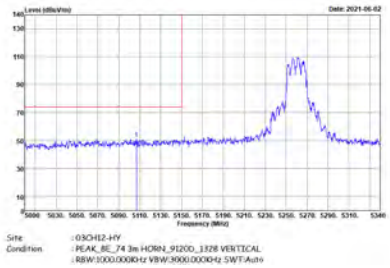
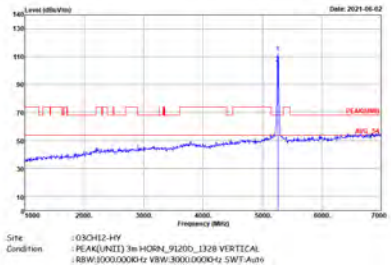
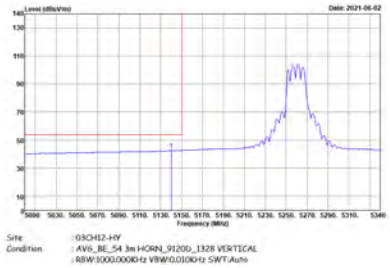
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

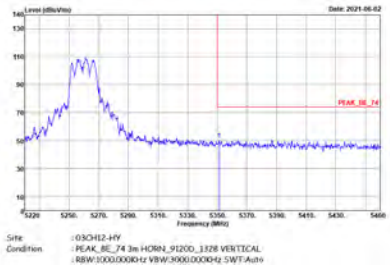
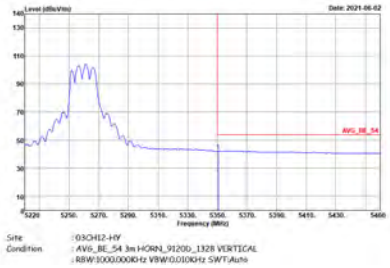
Band 2 5250~5350MHz

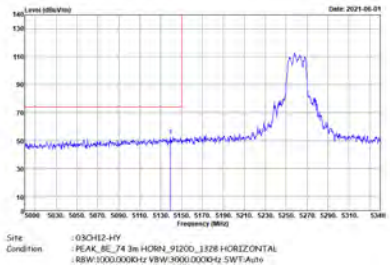
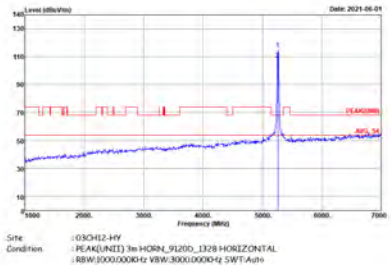
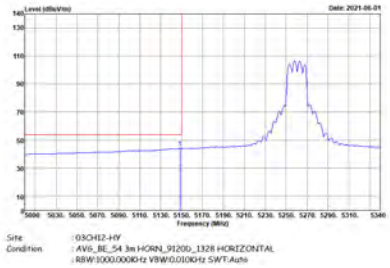
WIFI 802.11n HT20 (Band Edge @ 3m)

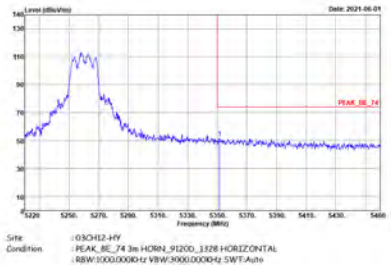
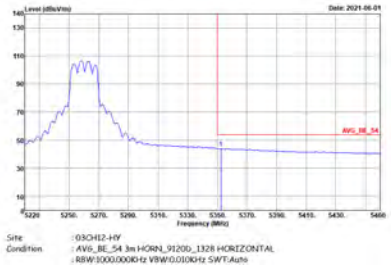
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

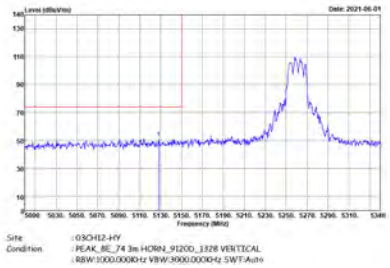
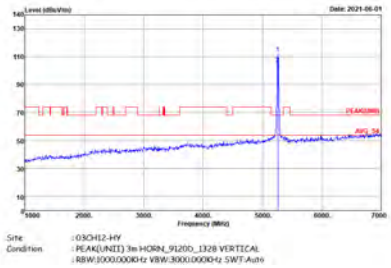
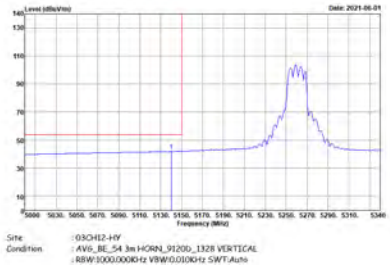
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

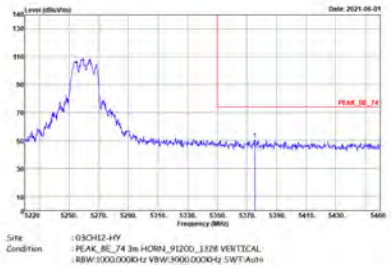
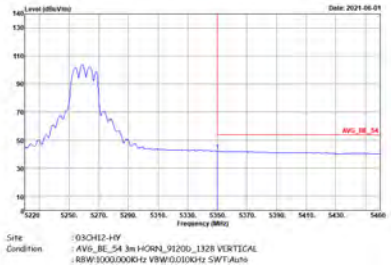
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

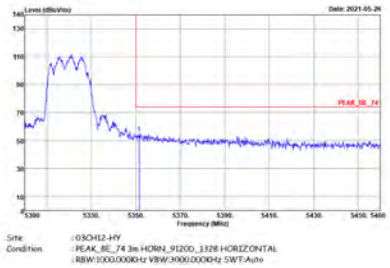
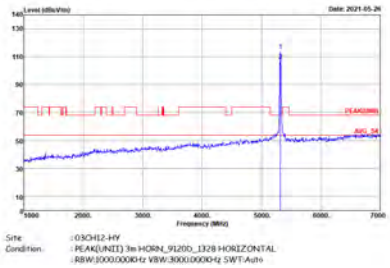
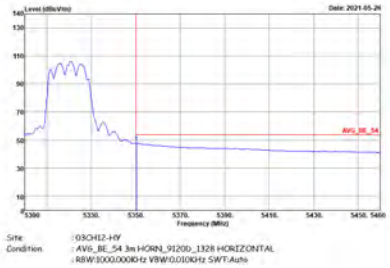
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

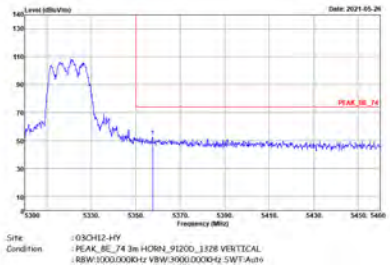
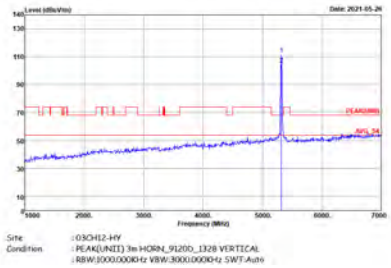
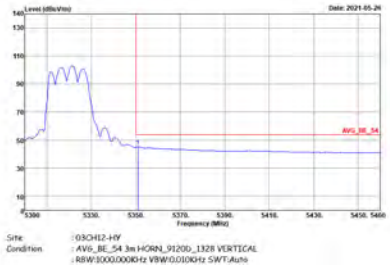
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

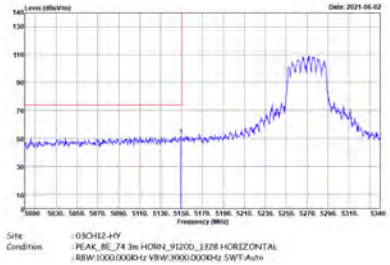
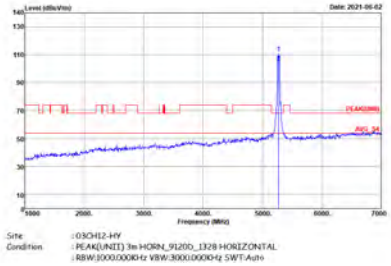
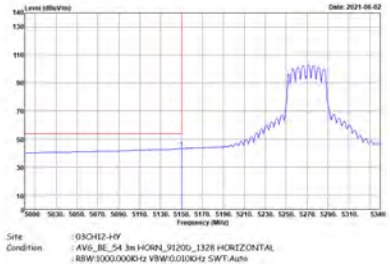
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

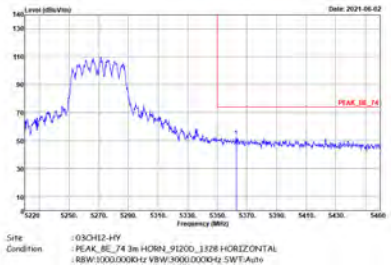
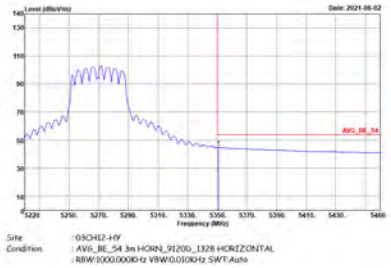
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

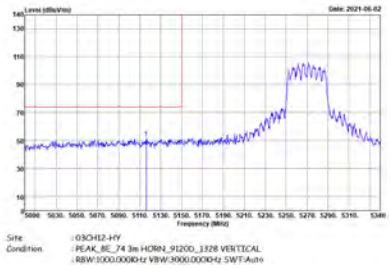
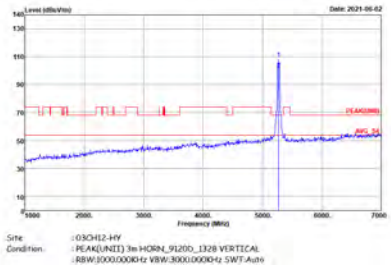
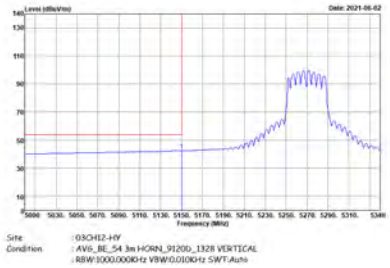
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

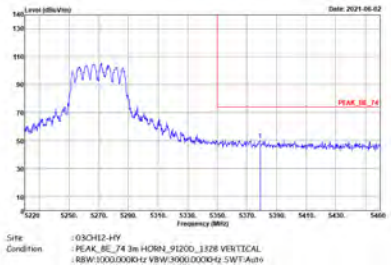
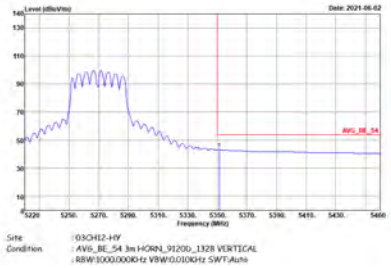
Band 2 5250~5350MHz

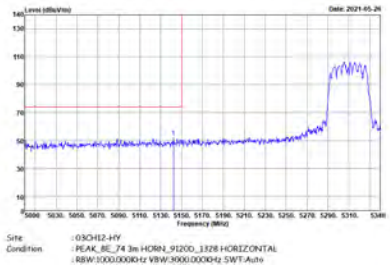
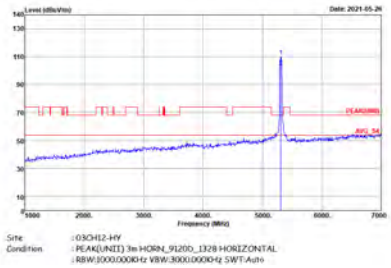
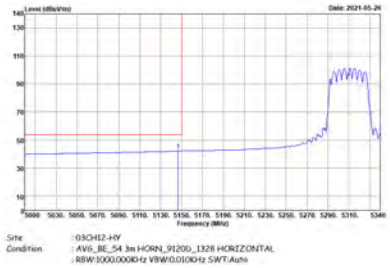
WIFI 802.11n HT40 (Band Edge @ 3m)

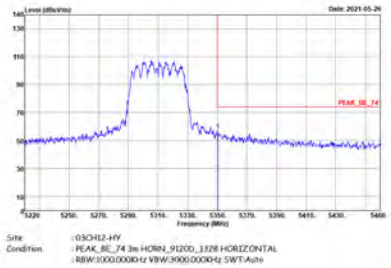
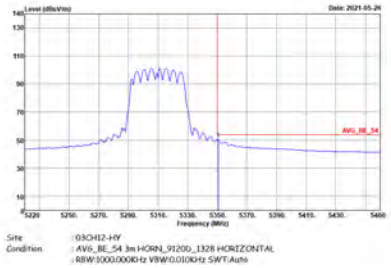
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

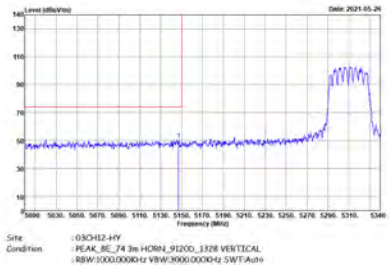
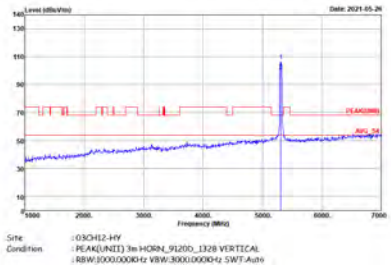
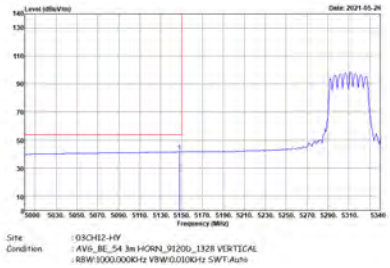
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

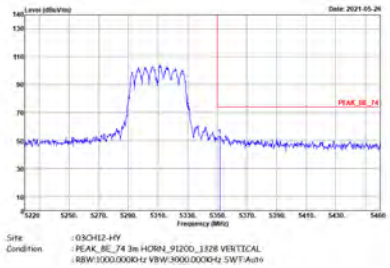
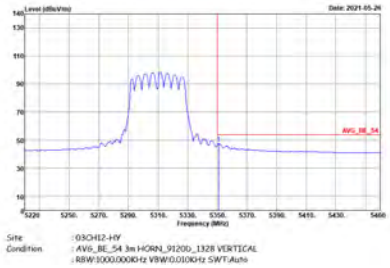
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Vertical	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

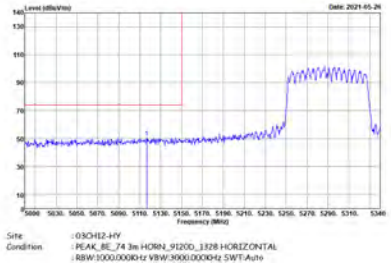
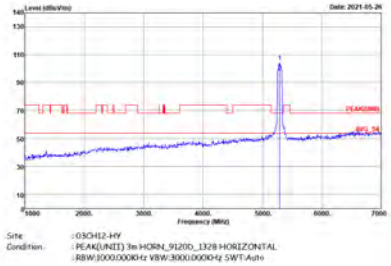
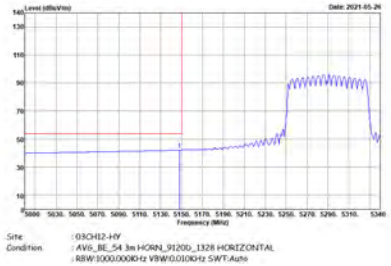
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

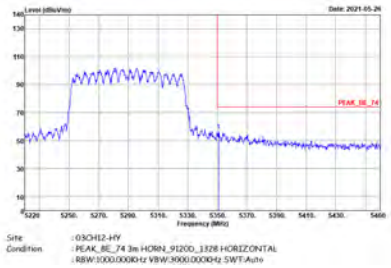
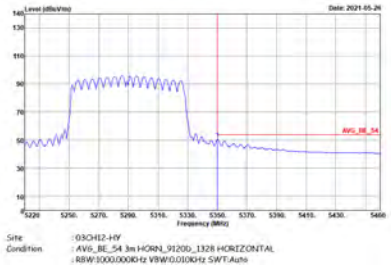
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

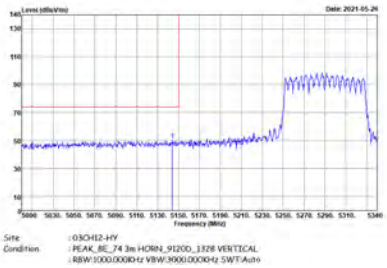
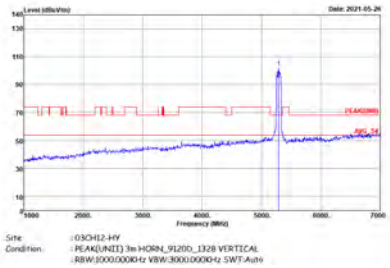
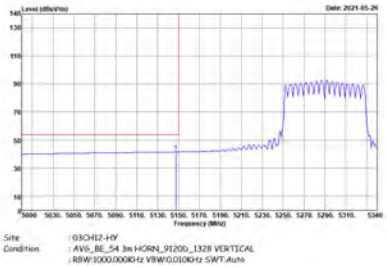
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

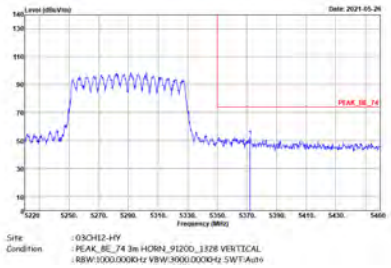
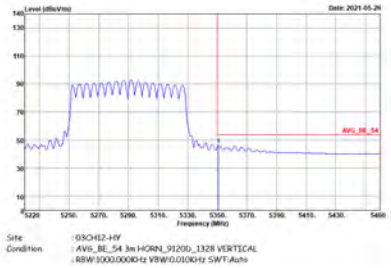
Band 2 5250~5350MHz

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		
Avg.		Left blank

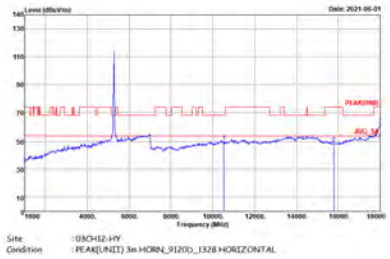
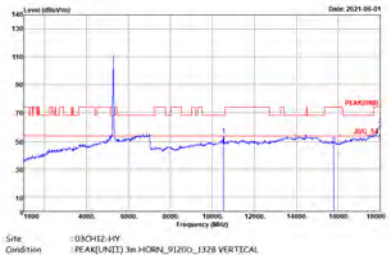
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

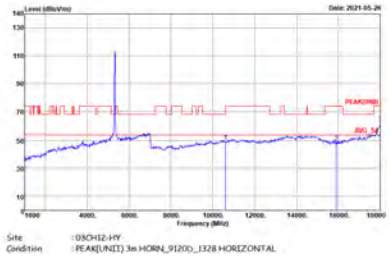
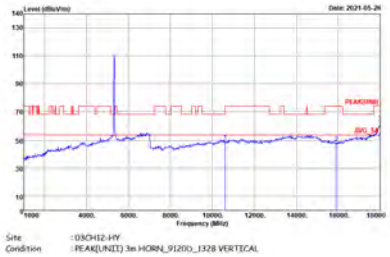
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

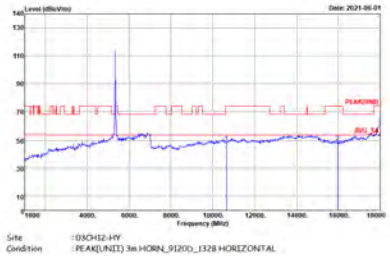
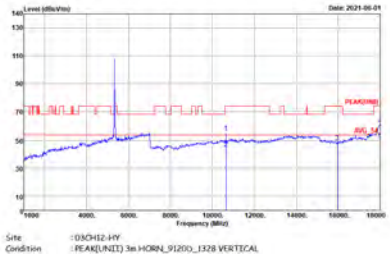
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

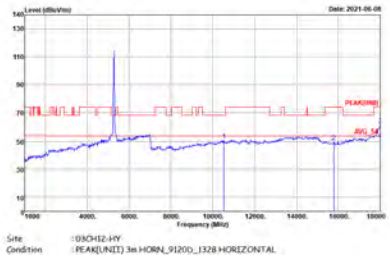
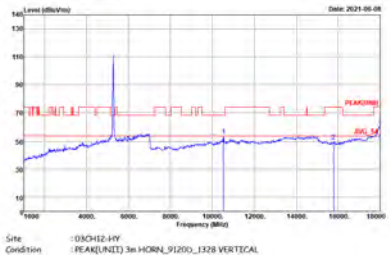
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

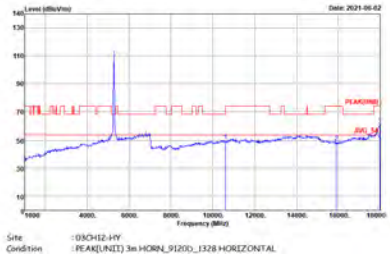
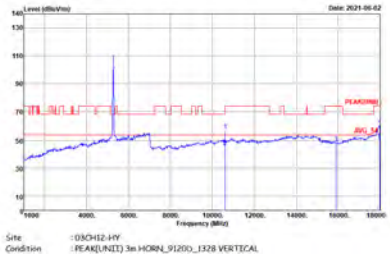
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.		

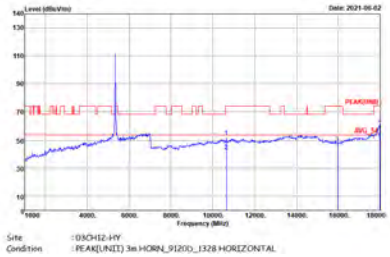
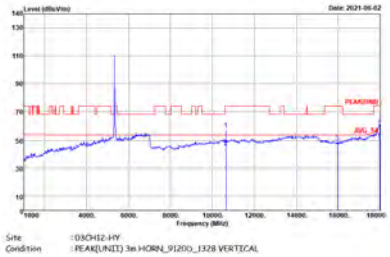
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

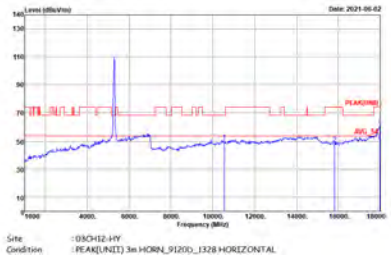
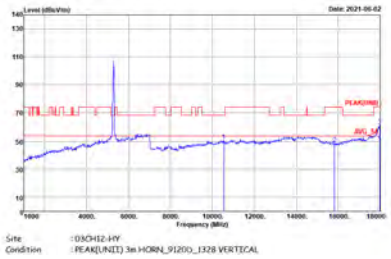
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

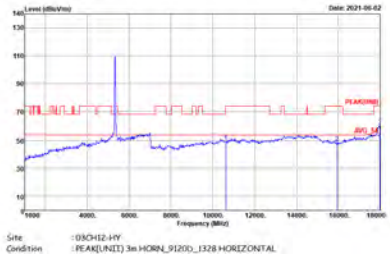
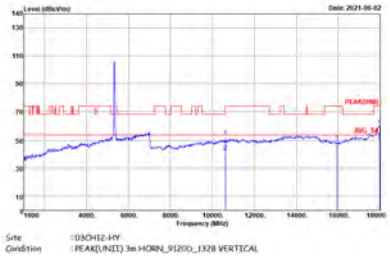
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

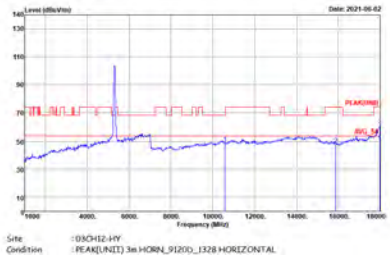
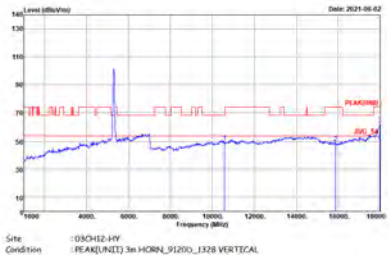
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1+2	Horizontal	Vertical
Peak Avg.		

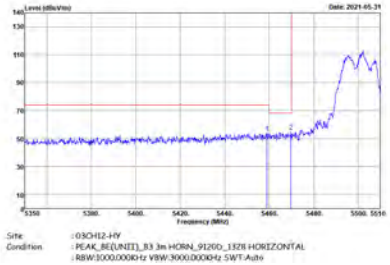
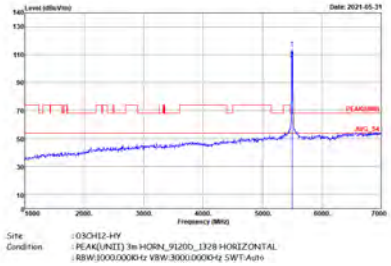
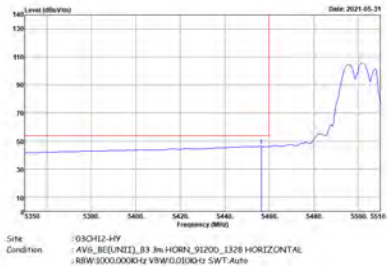
Band 2 5250~5350MHz

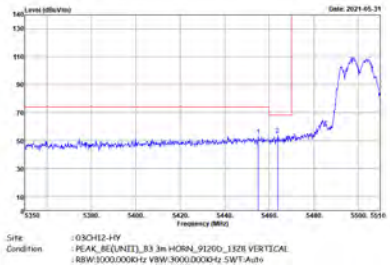
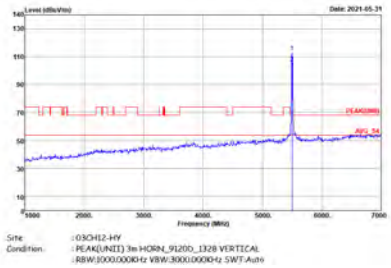
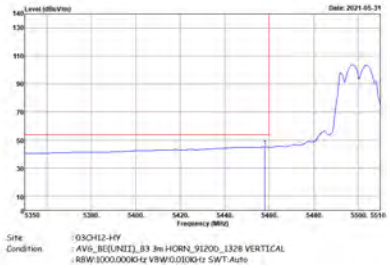
WIFI 802.11ac VHT80 (Harmonic @ 3m)

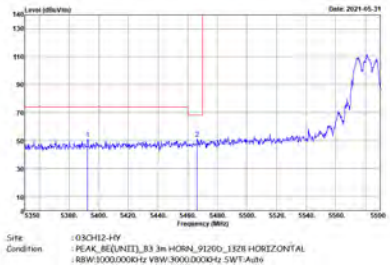
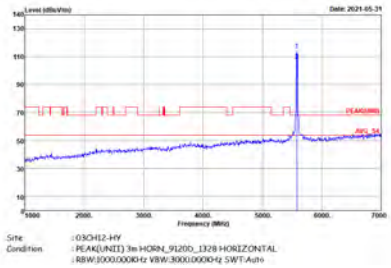
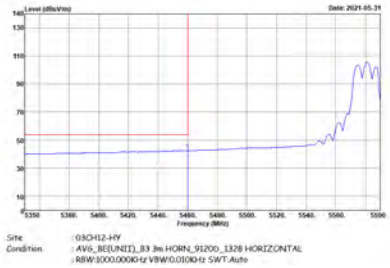
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.		

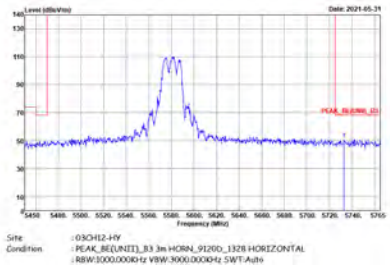
Band 3 - 5470~5725MHz

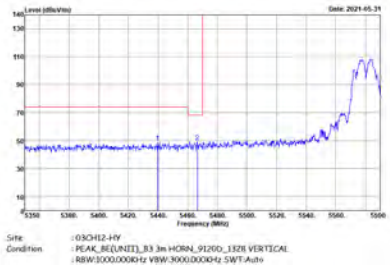
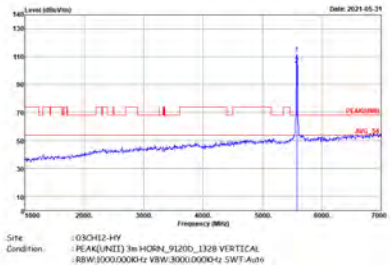
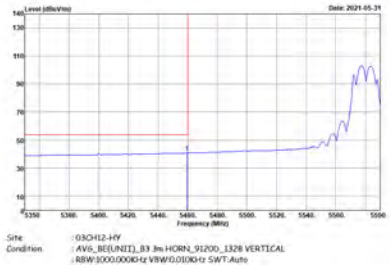
WIFI 802.11a (Band Edge @ 3m)

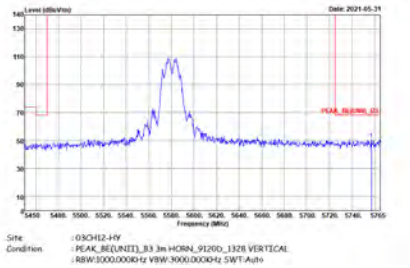
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

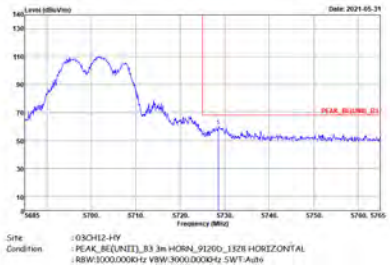
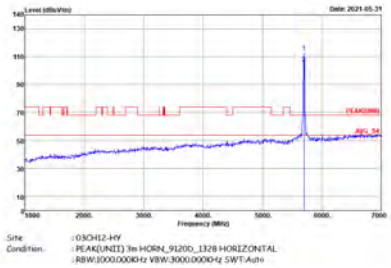
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

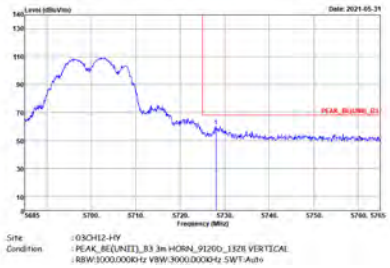
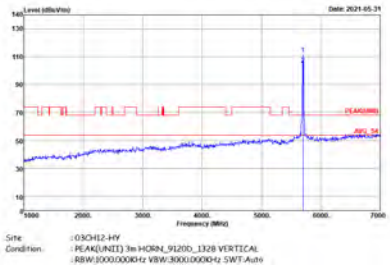
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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		
Avg.		Left blank

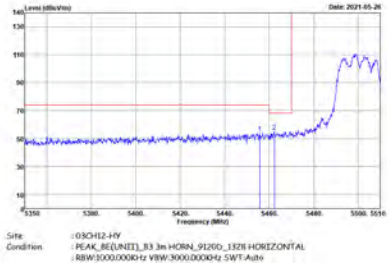
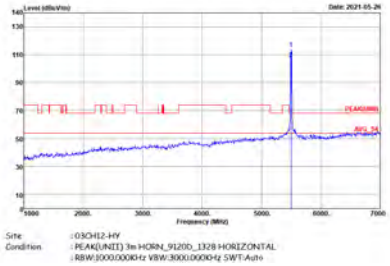
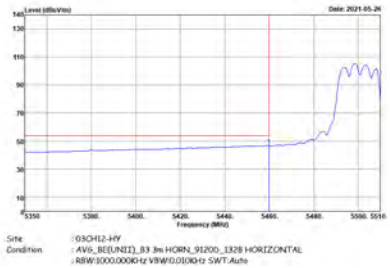
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

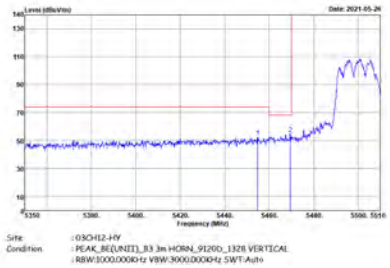
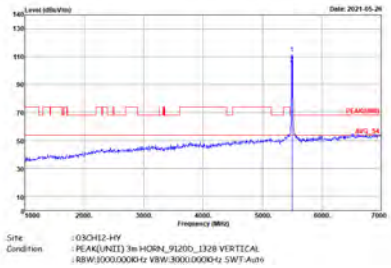
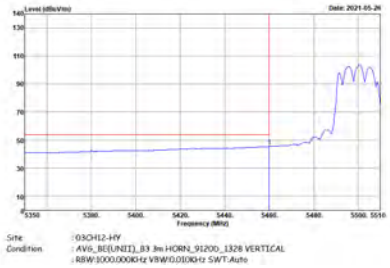
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

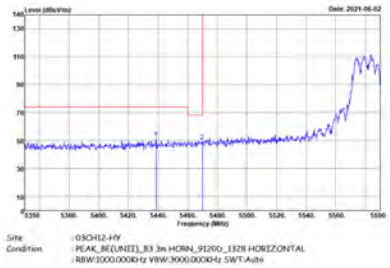
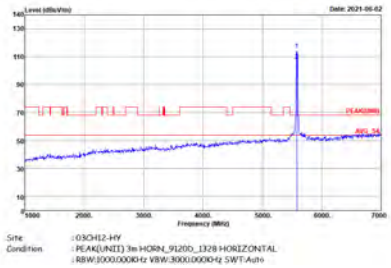
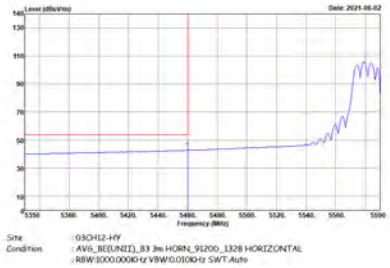
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		

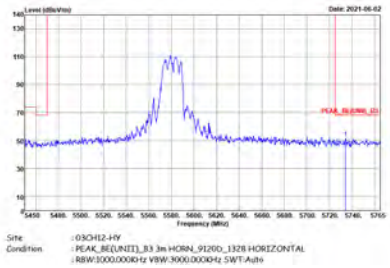
Band 3 5470~5725MHz

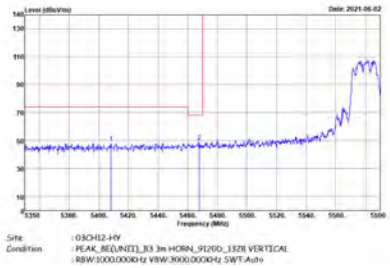
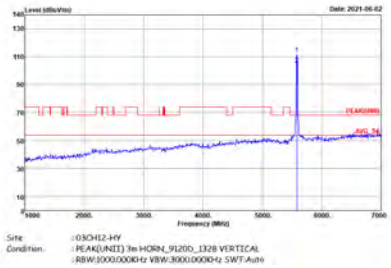
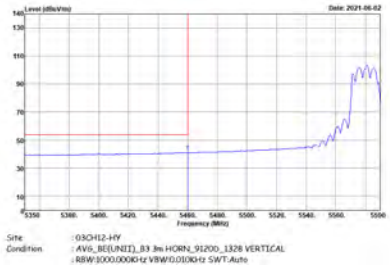
WIFI 802.11n HT20 (Band Edge @ 3m)

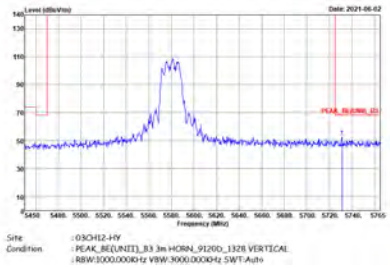
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

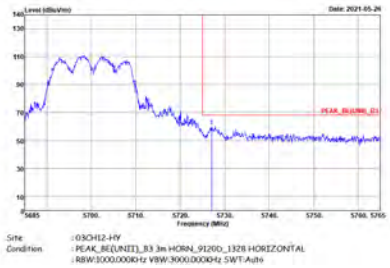
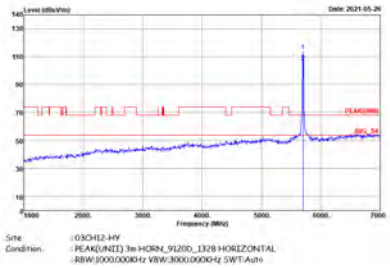
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

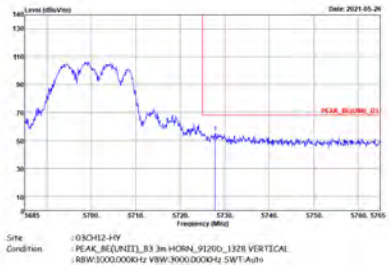
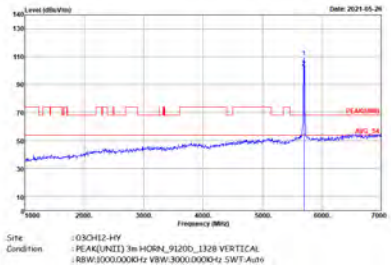
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

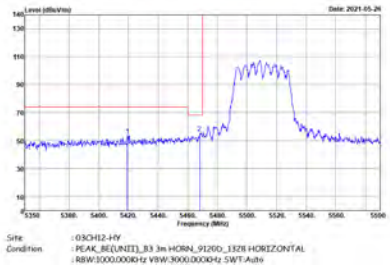
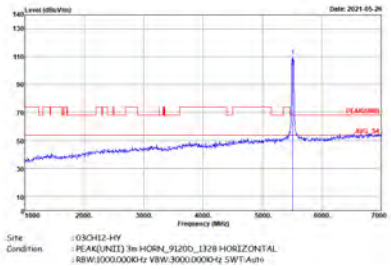
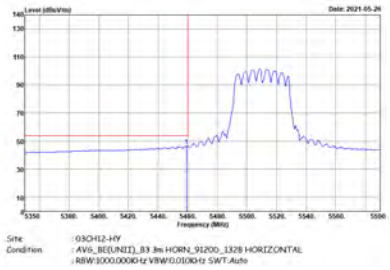
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

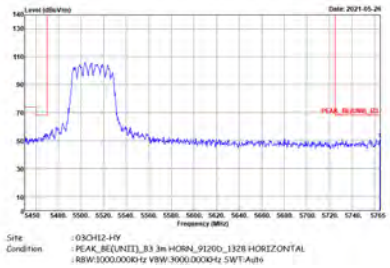
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

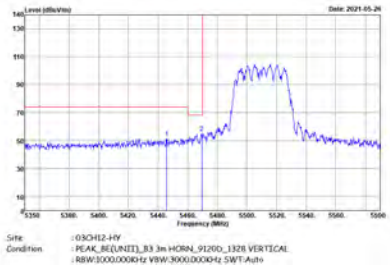
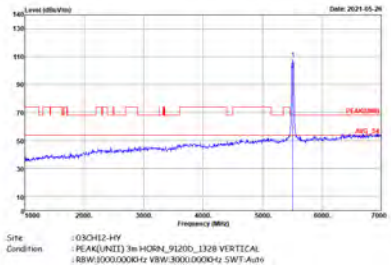
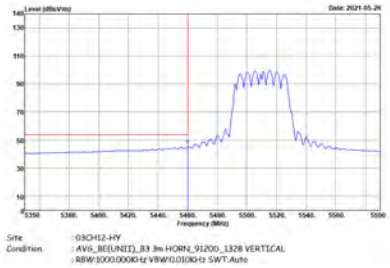
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak.		

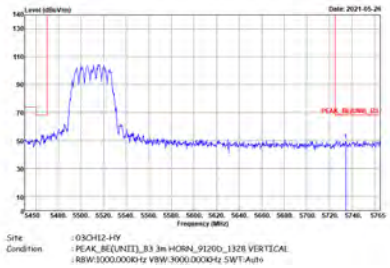
Band 3 5470~5725MHz

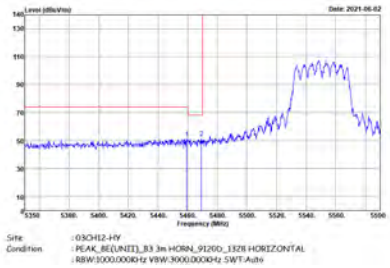
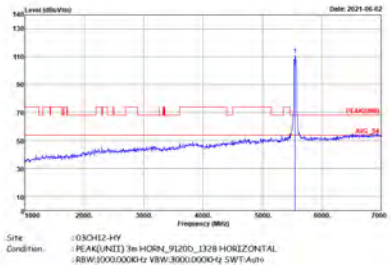
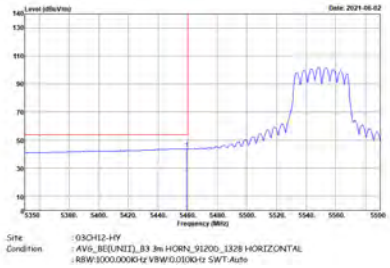
WIFI 802.11n HT40 (Band Edge @ 3m)

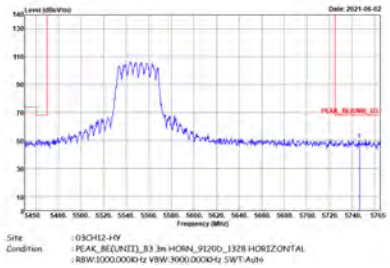
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

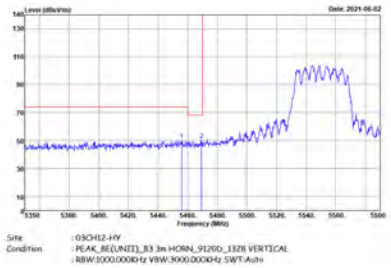
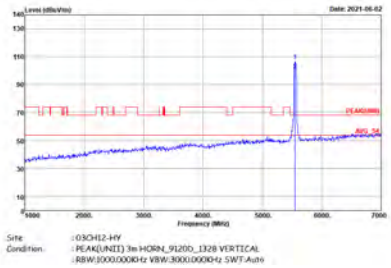
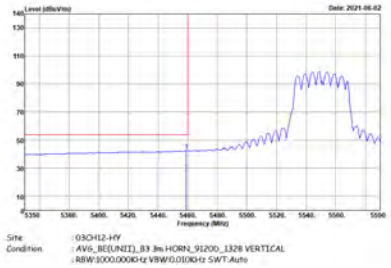
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

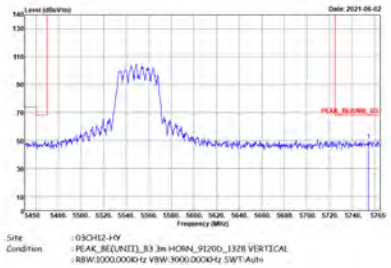
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

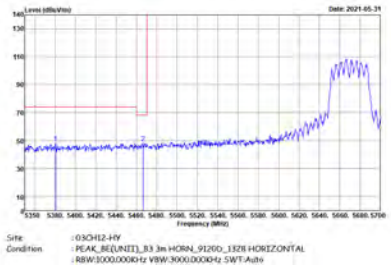
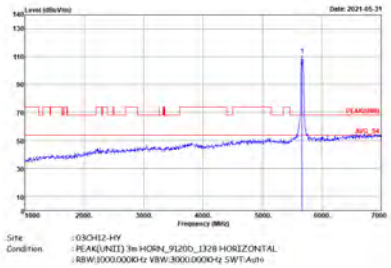
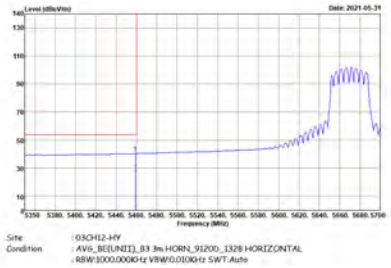
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

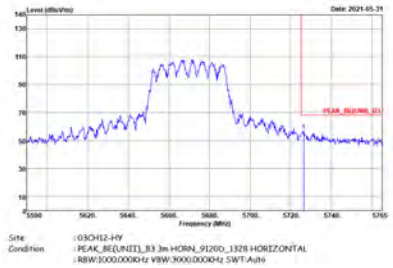
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

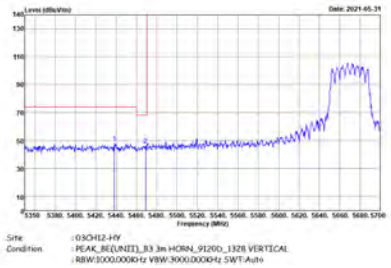
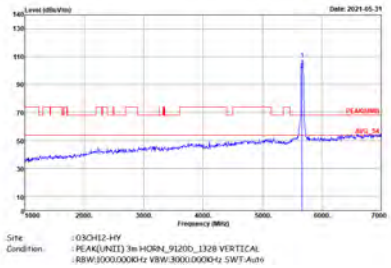
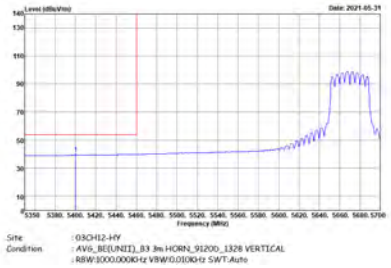
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

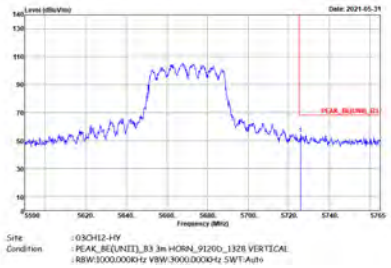
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

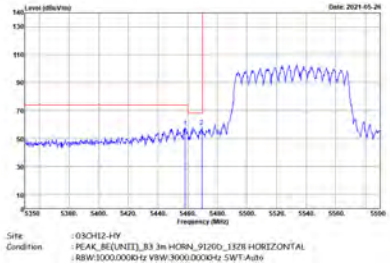
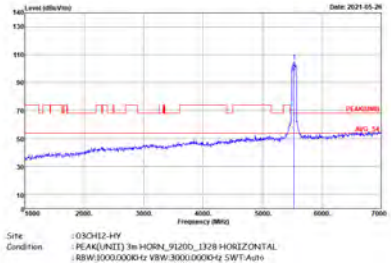
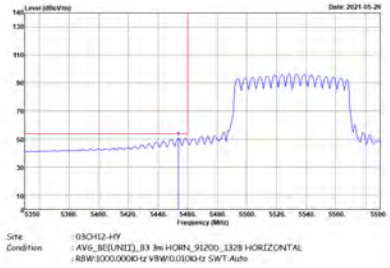
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

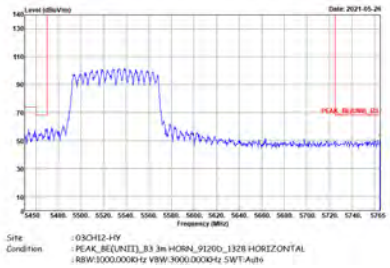
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

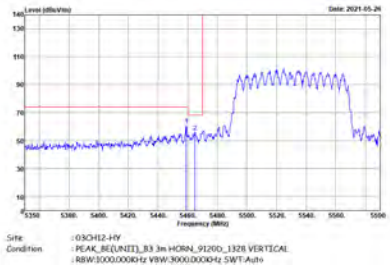
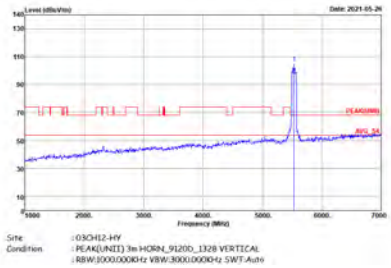
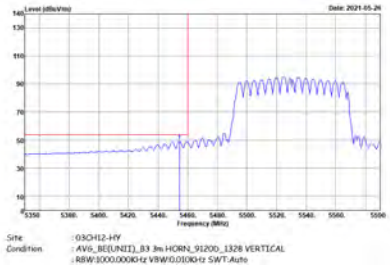
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

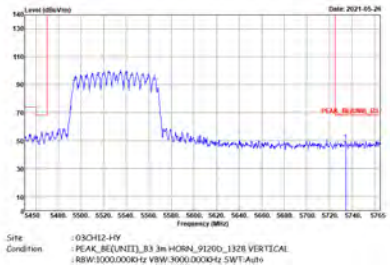
Band 3 5470~5725MHz

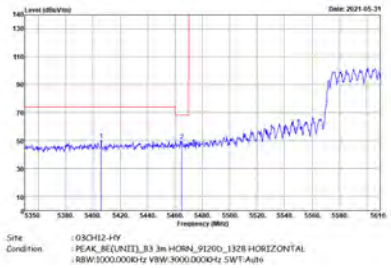
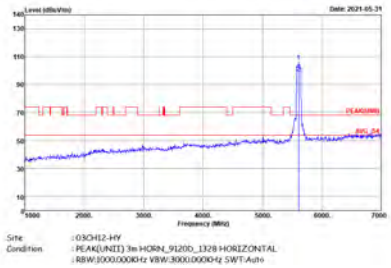
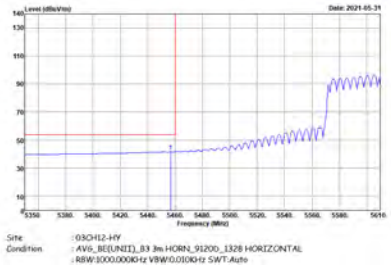
WIFI 802.11ac VHT80 (Band Edge @ 3m)

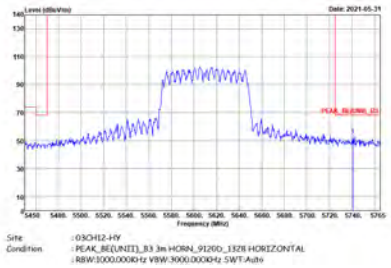
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

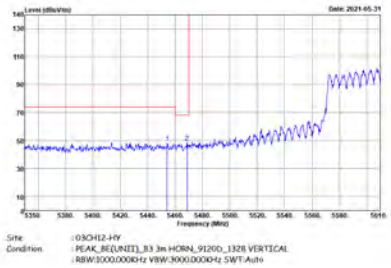
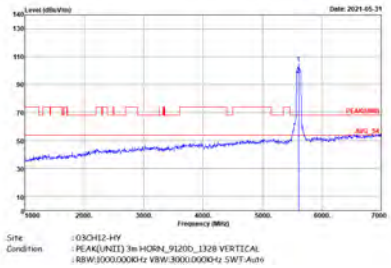
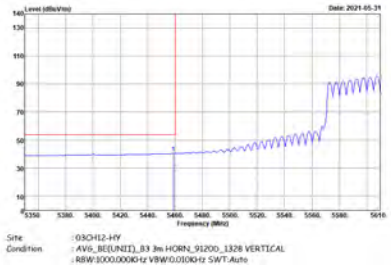
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

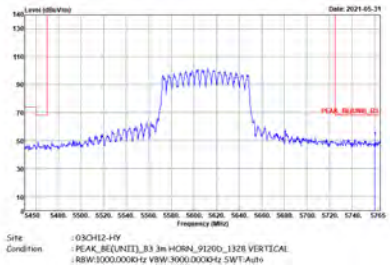
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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		
Avg.		Left blank

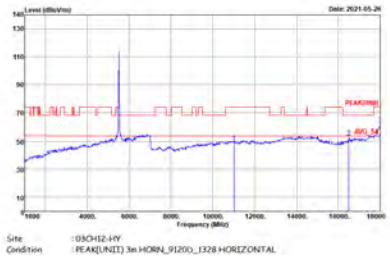
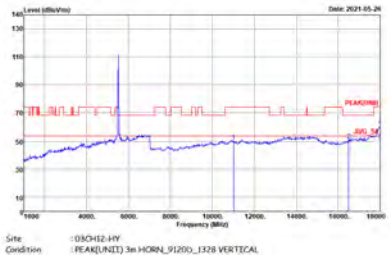
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

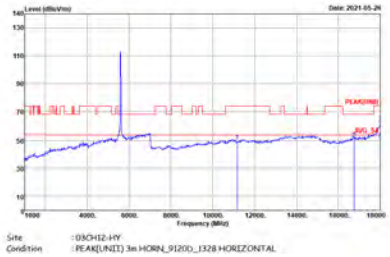
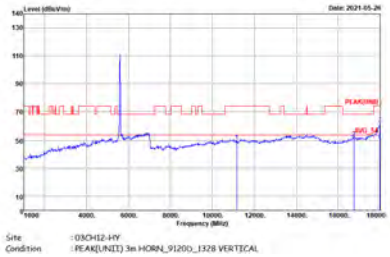
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

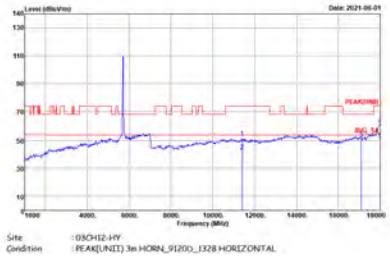
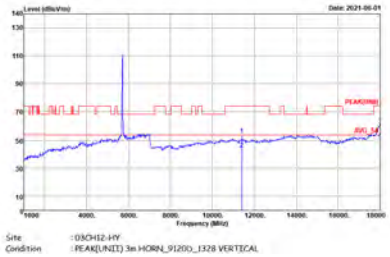
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

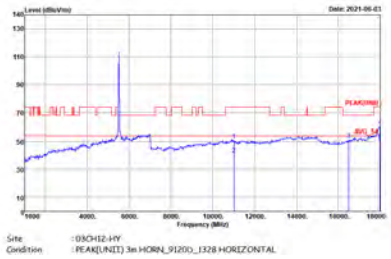
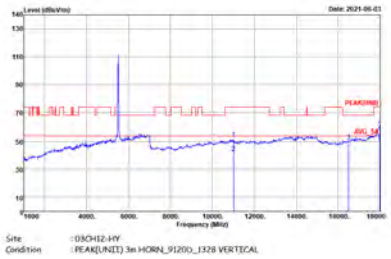
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

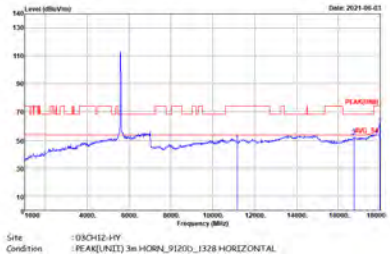
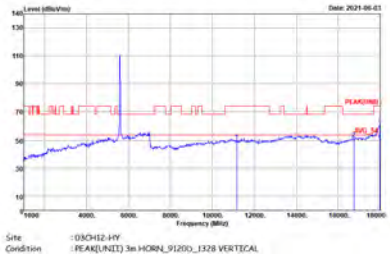
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.		

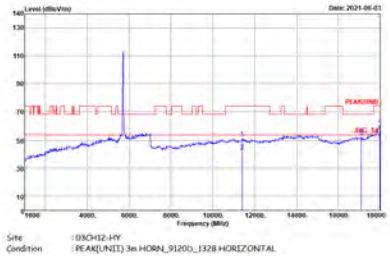
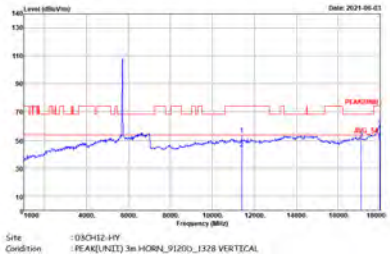
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

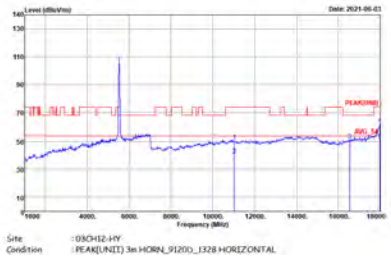
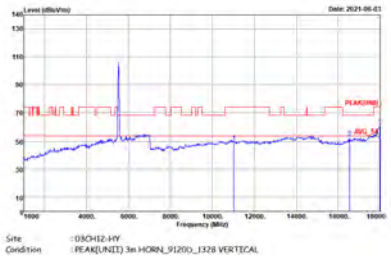
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

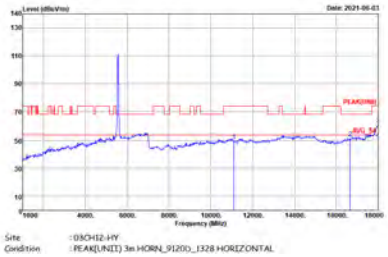
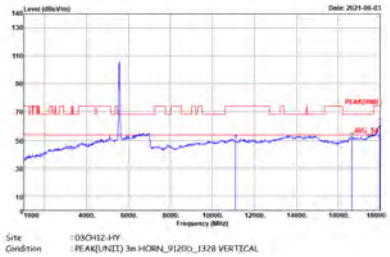
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.		

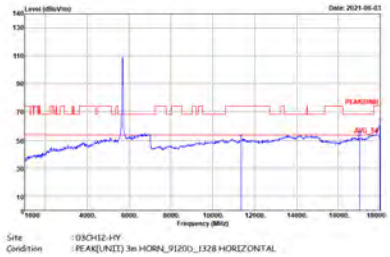
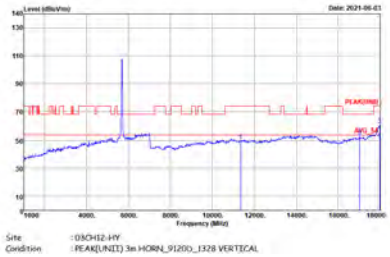
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

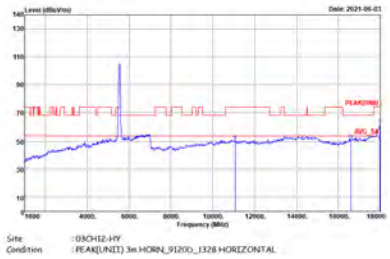
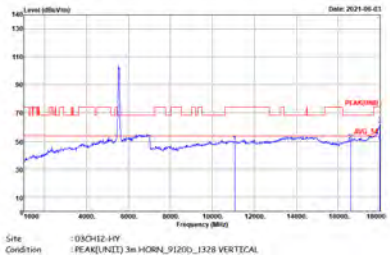
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1+2	Horizontal	Vertical
Peak Avg.		

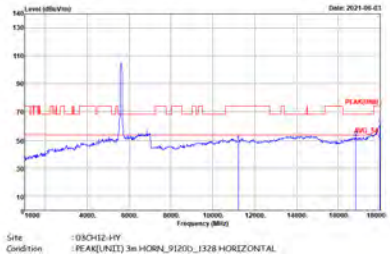
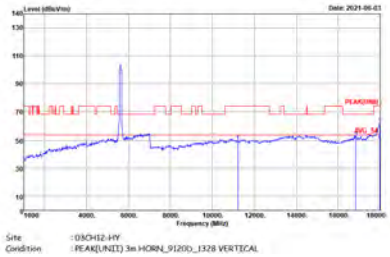
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

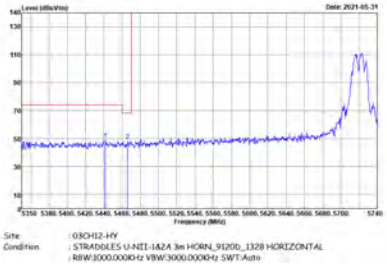
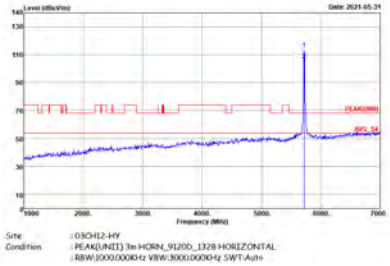
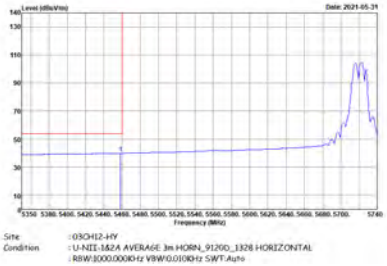
WIFI 802.11ac VHT80 (Harmonic @ 3m)

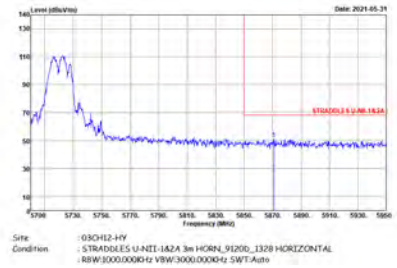
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.		

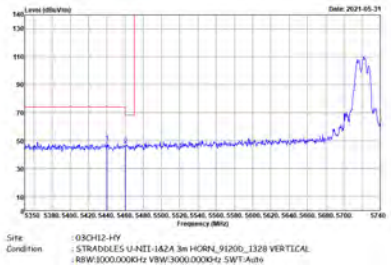
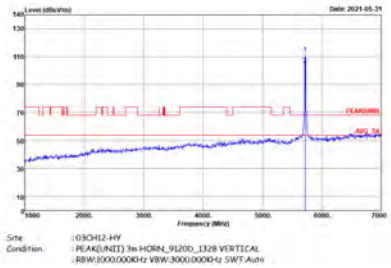
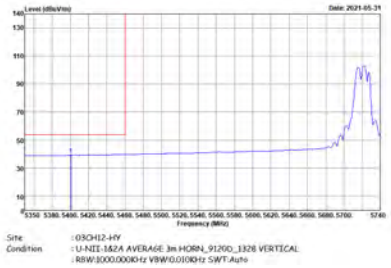
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1+2	Horizontal	Vertical
Peak Avg.		

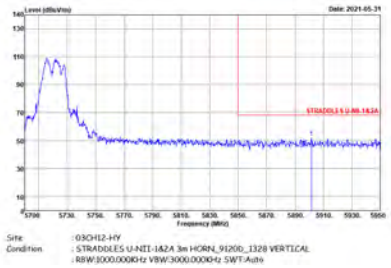
Band 3 - Straddle Channel

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		
Avg.		Left blank

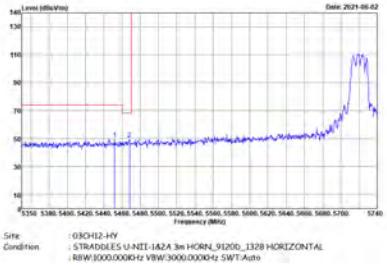
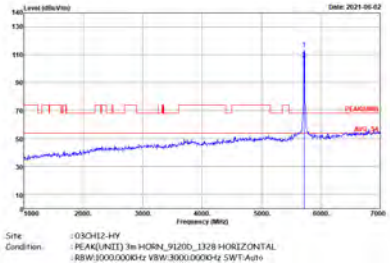
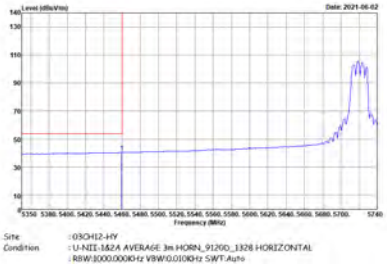
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

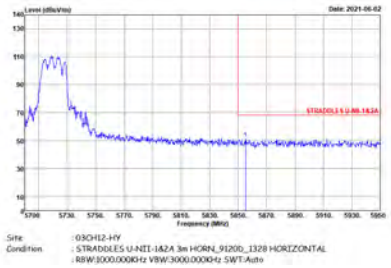
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

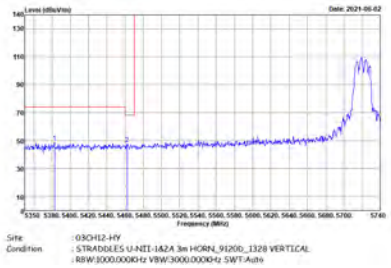
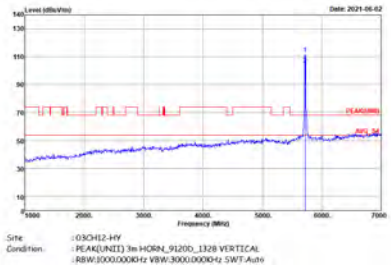
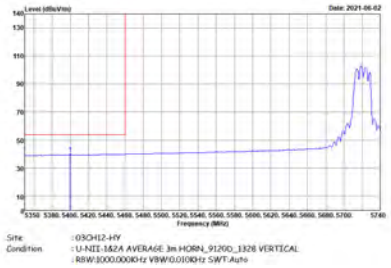
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

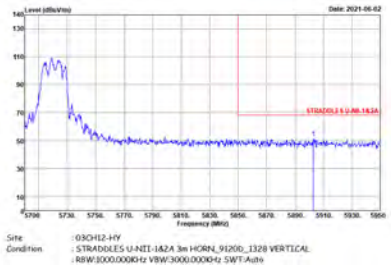
Band 3 – Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

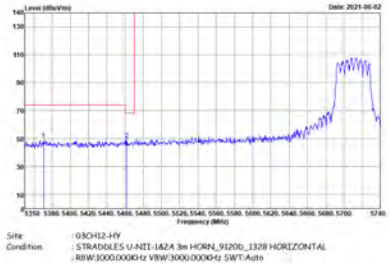
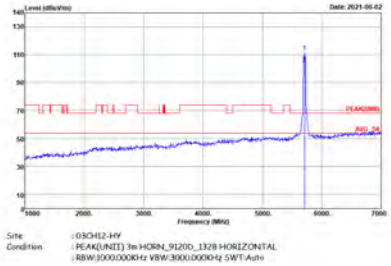
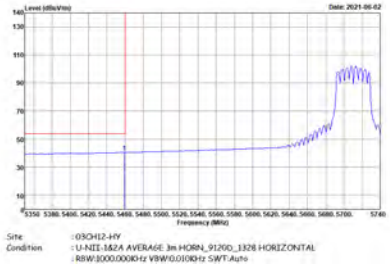
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

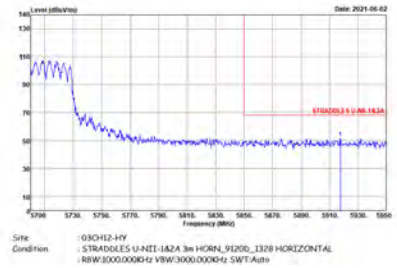
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

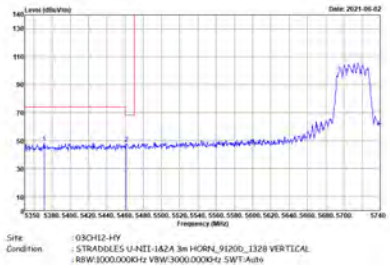
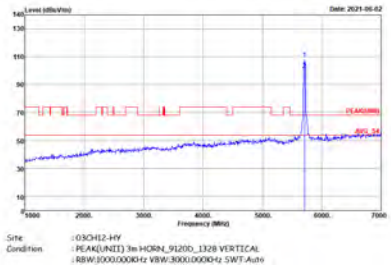
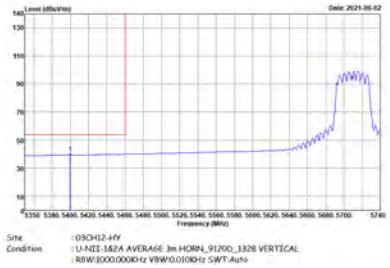
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

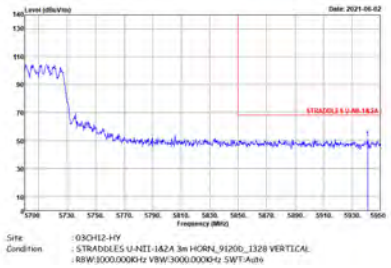
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

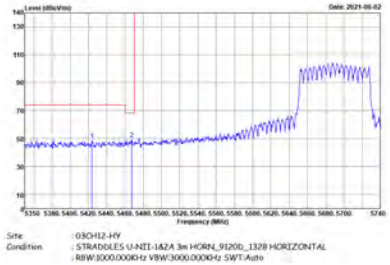
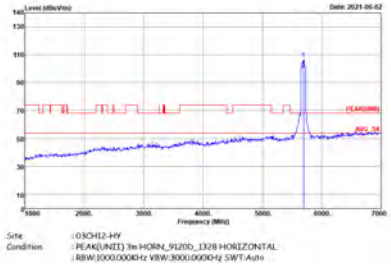
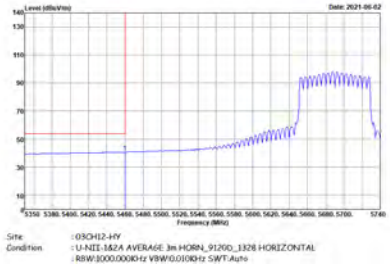
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

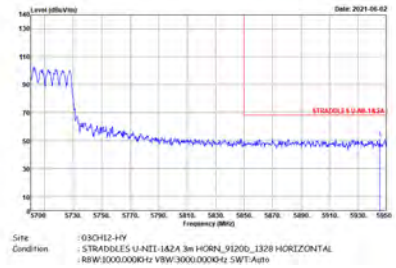
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

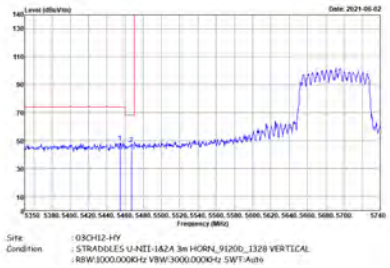
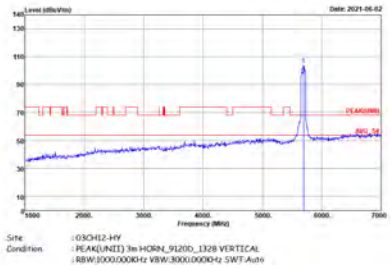
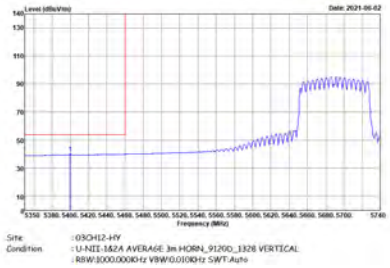
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

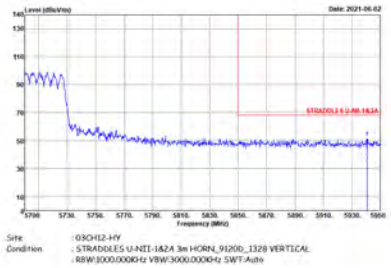
Band 3 – Straddle Channel

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		
Avg.		Left blank

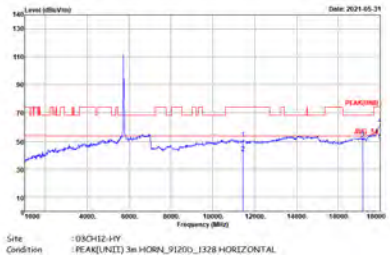
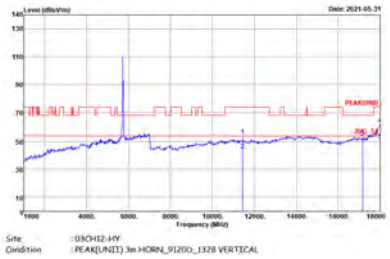
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

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

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

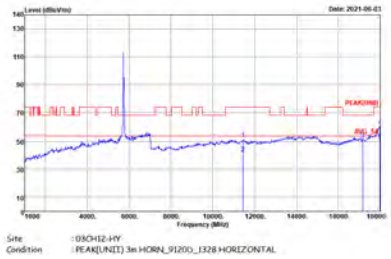
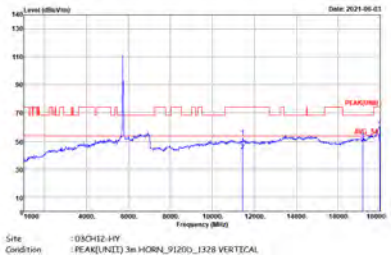
Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

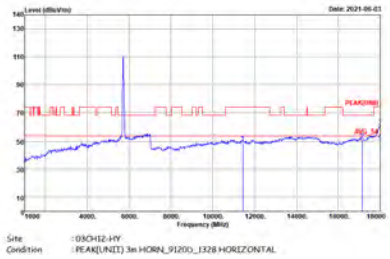
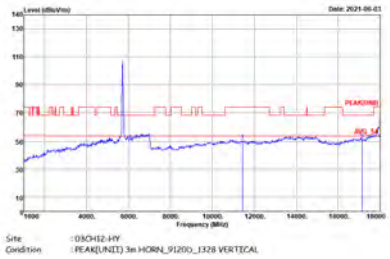
Band 3 – Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

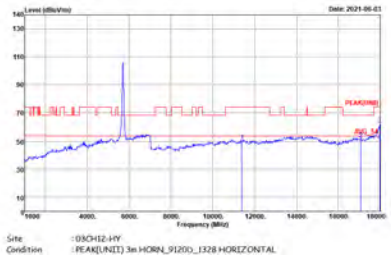
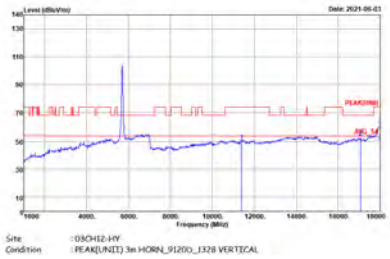
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.		

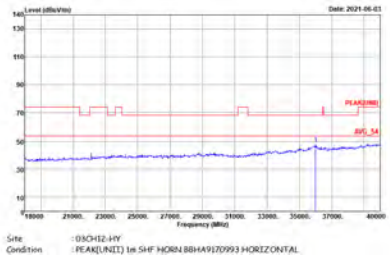
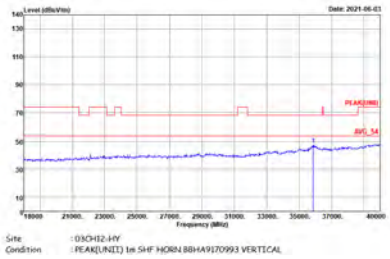
Band 3 – Straddle Channel

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.		

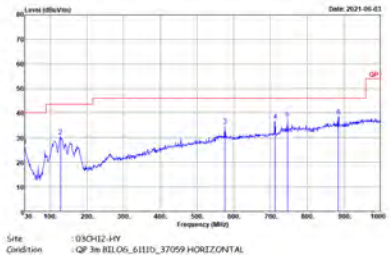
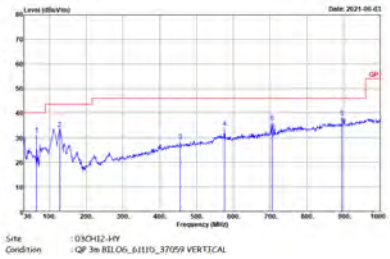
Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 Super High Frequency (SHF)	
1+2	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

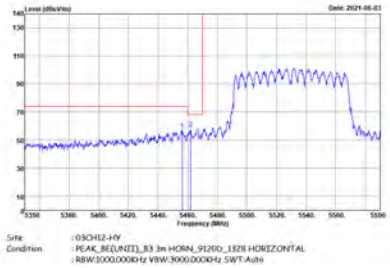
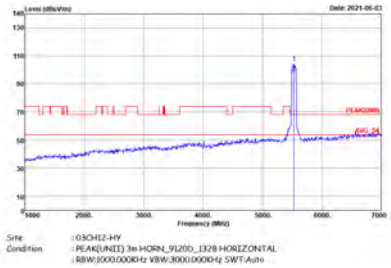
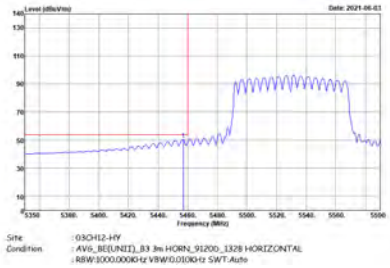
5GHz WIFI 802.11ac VHT80 (LF)

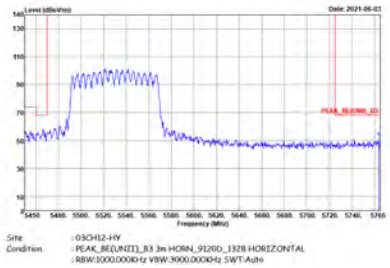
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

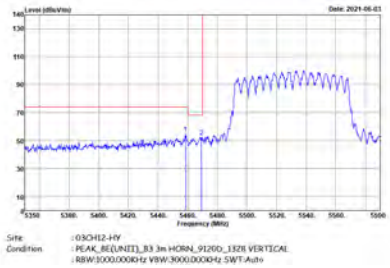
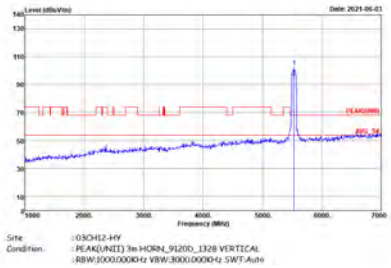
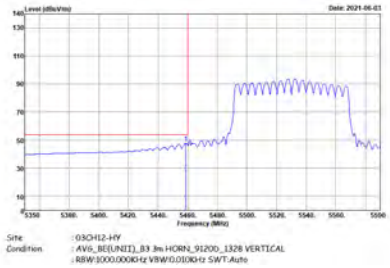
<EUT with Fixture 1>

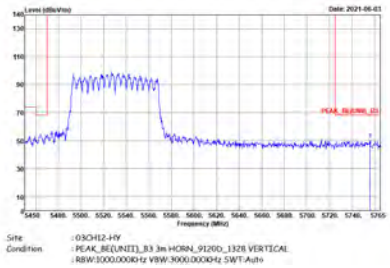
Band 3 - 5470~5725MHz

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		
Avg.		Left blank

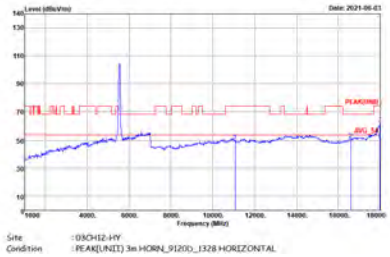
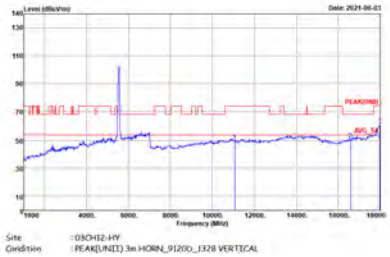
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

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

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

Band 3 - 5470~5725MHz

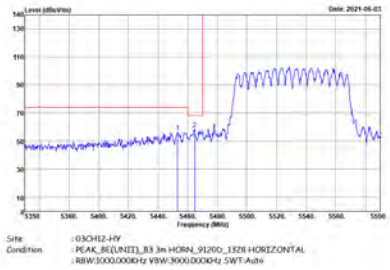
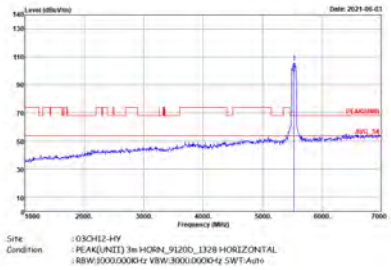
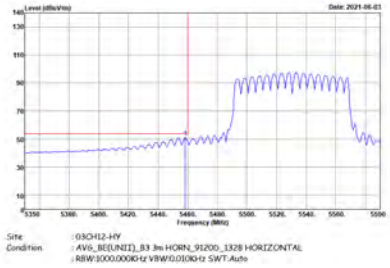
WIFI 802.11ac VHT80 (Harmonic @ 3m)

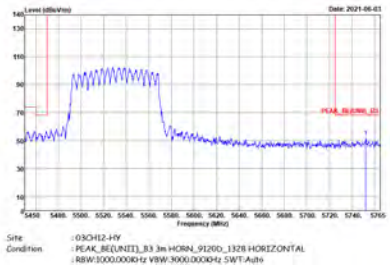
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.		

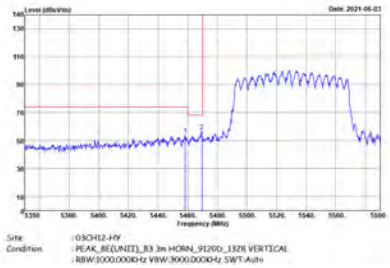
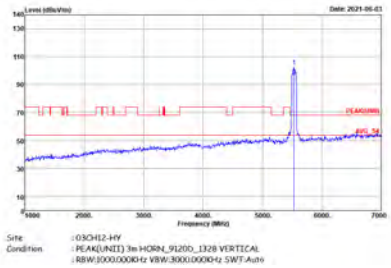
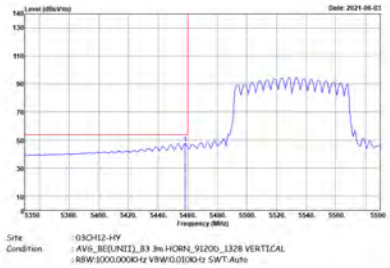
<EUT with Fixture 2>

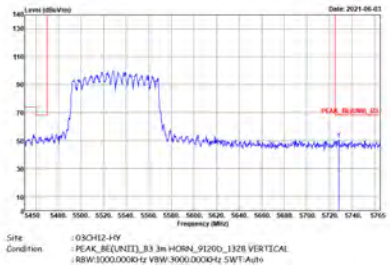
Band 3 - 5470~5725MHz

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		
Avg.		Left blank

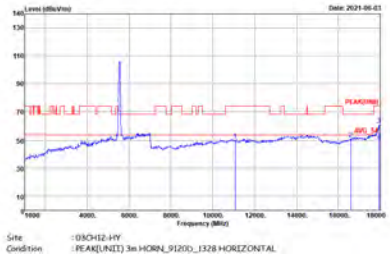
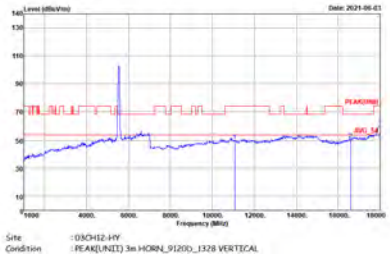
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

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

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

Band 3 - 5470~5725MHz

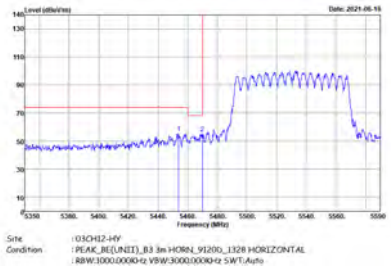
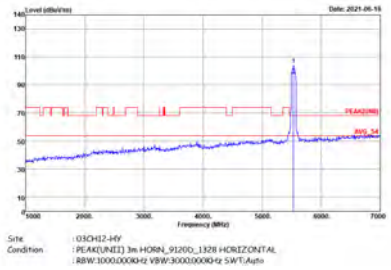
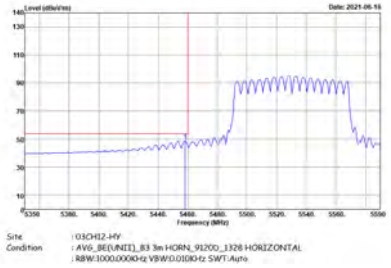
WIFI 802.11ac VHT80 (Harmonic @ 3m)

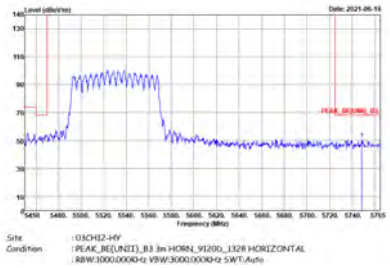
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.		

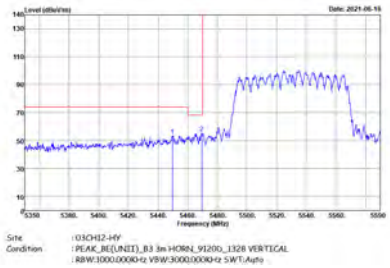
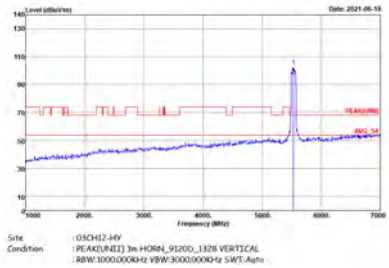
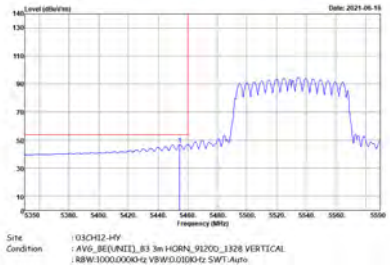
<EUT with Fixture 3>

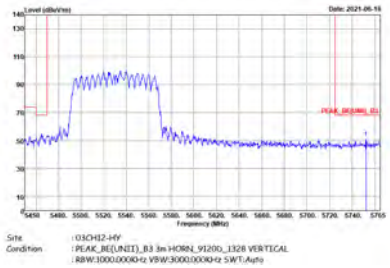
Band 3 - 5470~5725MHz

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		
Avg.		Left blank

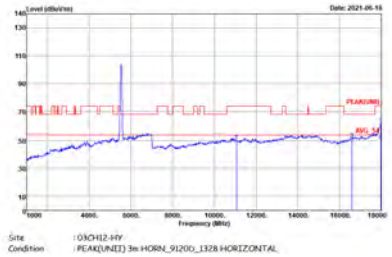
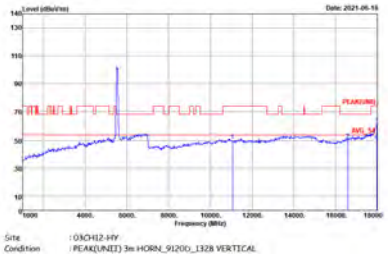
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

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

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

Band 3 - 5470~5725MHz

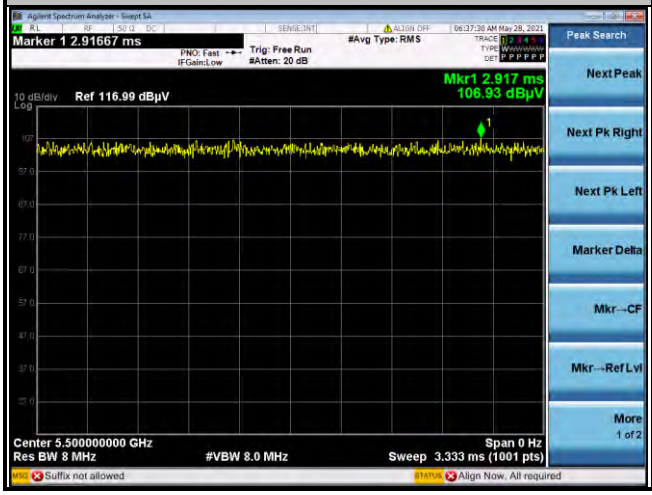
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.		

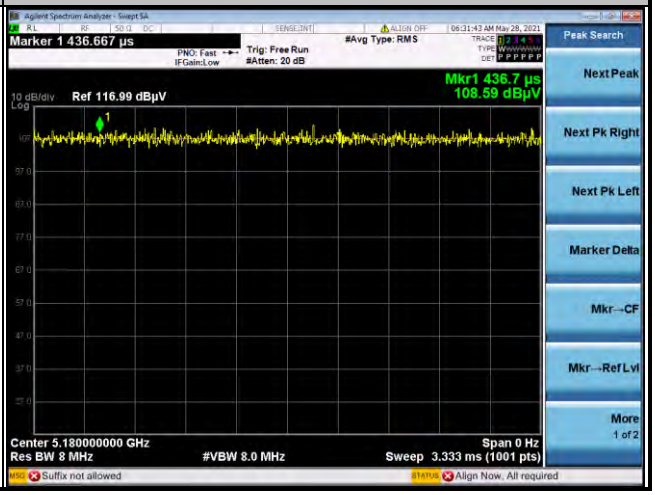
Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11a	100.00	-	-	10Hz
1+2	5GHz 802.11n HT20	100.00	-	-	10Hz
1+2	5GHz 802.11n HT40	100.00	-	-	10Hz
1+2	5GHz 802.11ac VHT80	100.00	-	-	10Hz

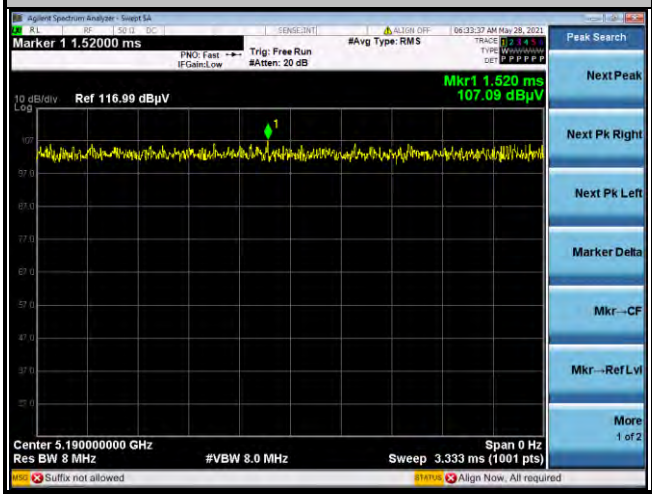
802.11a



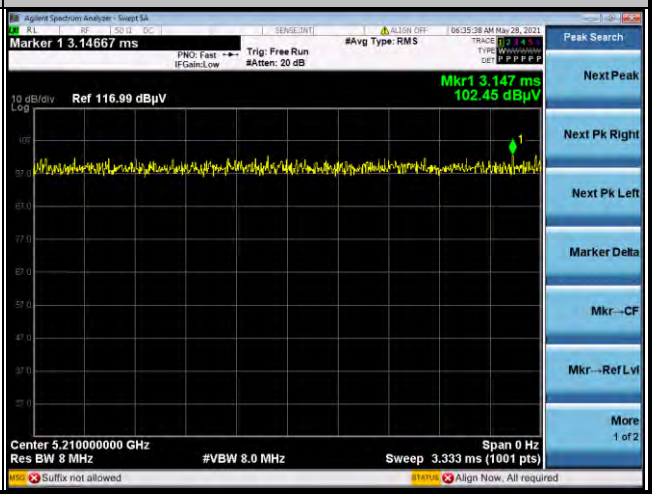
802.11n HT20



802.11n HT40



802.11ac VHT80



———THE END———