FCC RADIO TEST REPORT

FCC ID	:	**HD5-CT30PL0N**
Equipment	:	**Mobile computer**
Brand Name	:	**Honeywell**
Model Name	:	**CT30PL0N**
Applicant	:	**Honeywell International Inc.** **9680 Old Bailes Road, Fort Mill, SC 29707 USA**
Manufacturer	:	**Honeywell International Inc.** **9680 Old Bailes Road, Fort Mill, SC 29707 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Nov. 11, 2021 and testing was performed from Nov. 15, 2021 to Jan. 06, 2022. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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

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History of this test report

Report No.	Version	Description	Issue Date
FR1N0506E	01	Initial issue of report	Jan. 04, 2022
FR1N0506E	02	1. Add description in test mode 2. Revise antenna information 3. Revise test procedures for radiated spurious emission 4. Revise list of measuring equipment	Jan. 10, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	1.56 dB under the limit at 5460.000 MHz
3.5	15.207	AC Conducted Emission	Pass	13.60 dB under the limit at 0.708 MHz
3.6	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Tina Chuang

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Feature	
Sample 1	with Scanner (S0703)
Sample 2	Non Scanner
HW Version	EVT1.5
SW Version	311.C0.00.0630-N-DEBUG
Antenna Type	WLAN5GHz <Ant. 1>: PIFA Antenna WLAN2.4GHz <Ant. 2>: PIFA Antenna Bluetooth: PIFA Antenna NFC: Loop Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	3.3
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	2.8
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	2.8

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY(TAF Code: 1190)
Remark	The Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

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.**
	TH05-HY, 03CH13-HY

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

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

According to the specifications declared by 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.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Z plane for Sample 1 and Y Plane for Sample 2 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 with "*" are 802.11n HT40 and 802.11ac VHT40
2. The above Frequency and Channel with "#" are 802.11ac VHT80.

2.2 Test Mode

The final test modes consider the modulation and the worst data rates as shown in the table below.

The 802.11n mode has no higher power and PSD than 802.11ac mode, thus the 802.11ac mode is chosen as main test configuration, and the 802.11n mode is verified the power.

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 : Bluetooth Link + WLAN Link + USB Cable (Charging from AC Adapter) for Sample 1

<Sample 1>

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

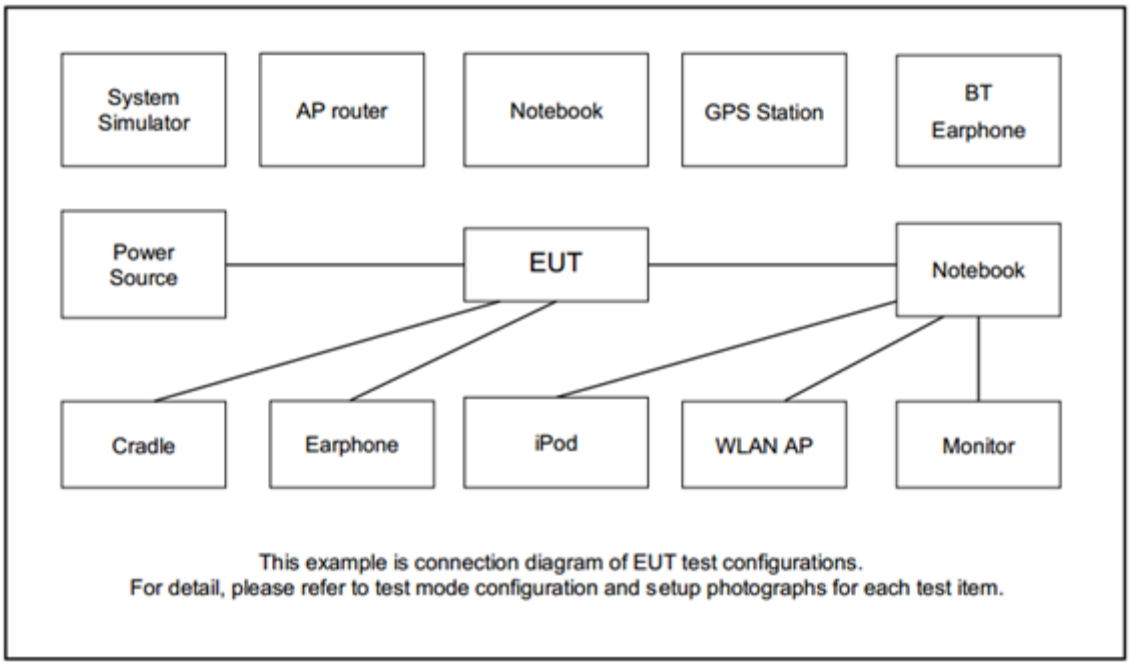
<Sample 2>

Ch. #		Band I：5150-5250 MHz	Band III：5470-5725MHz
		802.11a	802.11a
L	Low	-	100
M	Middle	-	-
H	High	48	-

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

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	Acer	N18Q13	PD9AX201NG	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT 4.0.00193.0” 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.

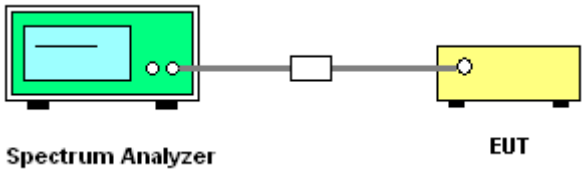
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in 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.

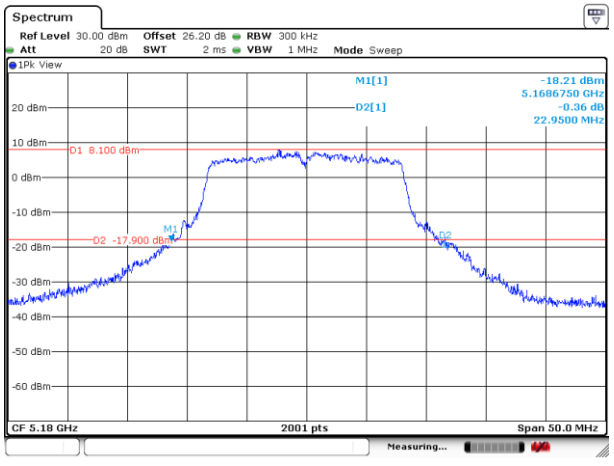
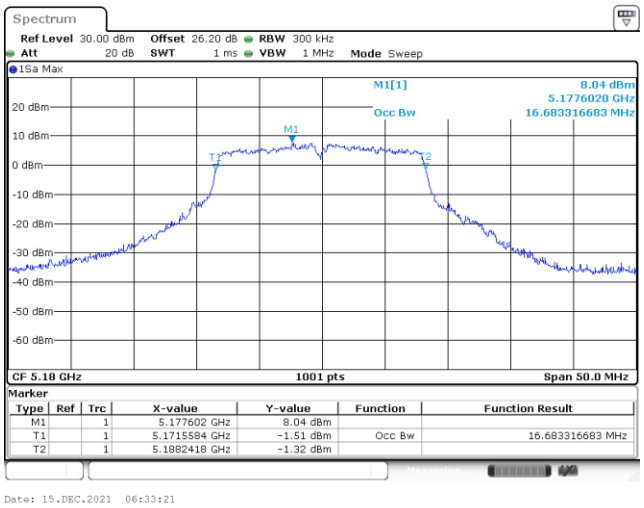
3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

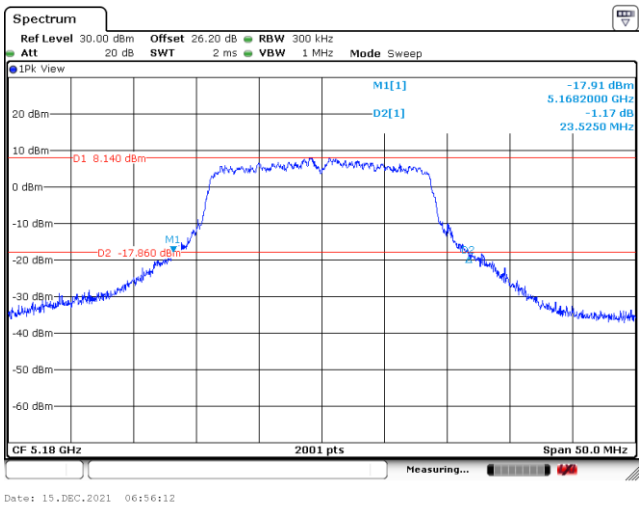
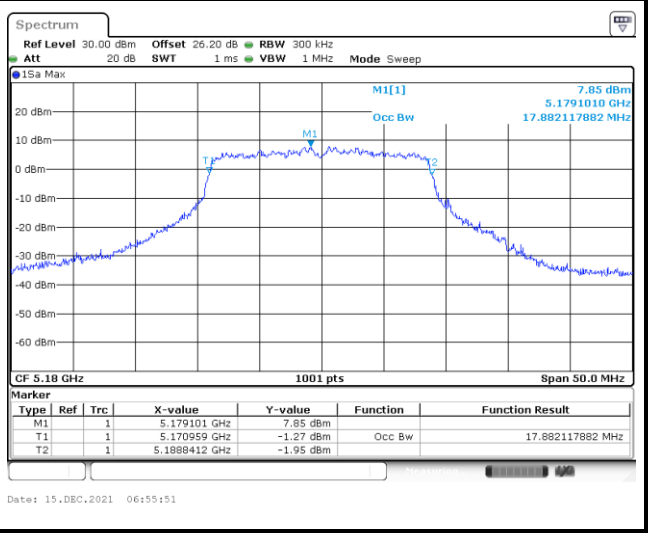
Please refer to Appendix A.

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	

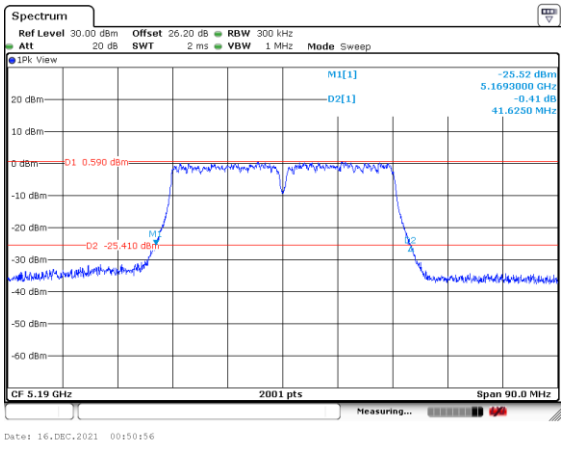
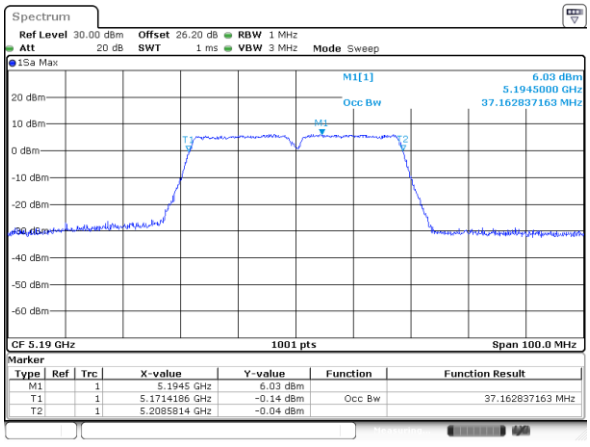
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11n HT20>

26dB Bandwidth	99% Occupied Bandwidth
	

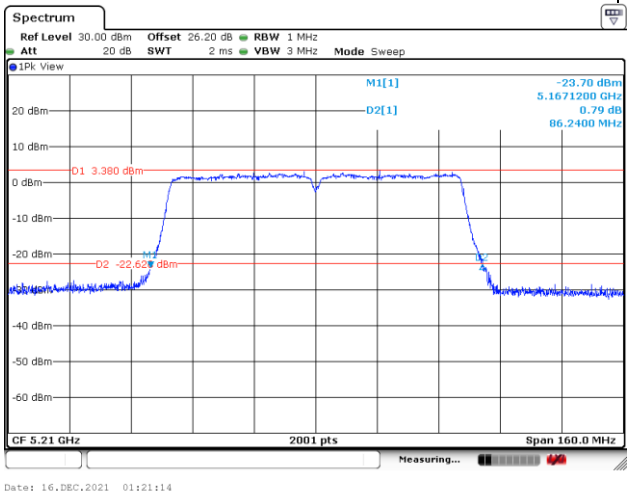
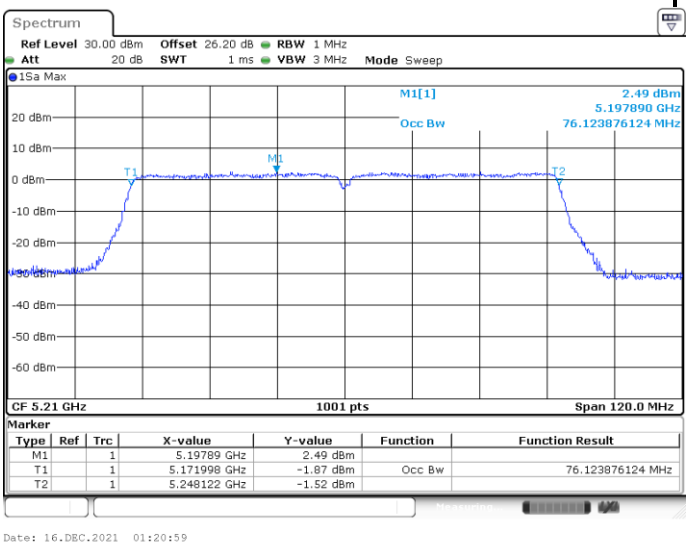
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11n HT40>

26dB Bandwidth	99% Occupied Bandwidth
	

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

<802.11ac VHT80>

26dB Bandwidth	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

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

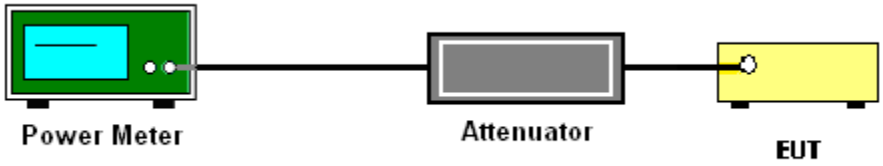
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

Please refer to the measuring equipment list in 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.

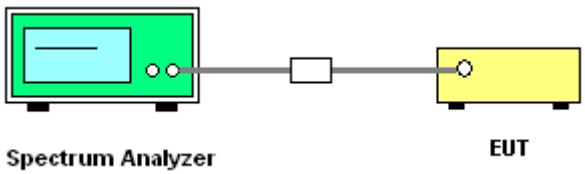
 # Method SA-3 #

(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 is connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

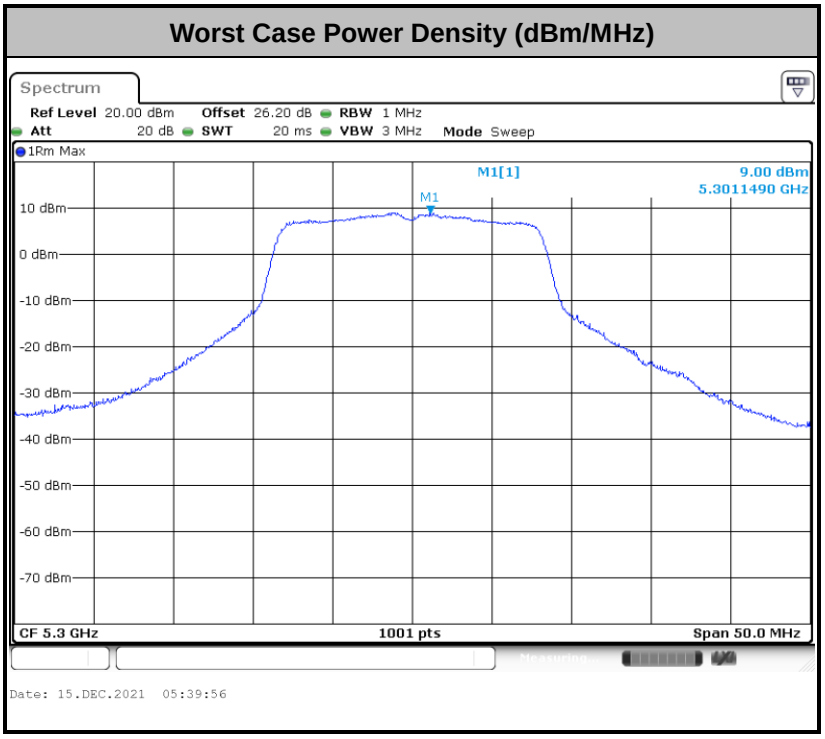
3.3.4 Test Setup



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 falls 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

Please refer to the measuring equipment list in 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

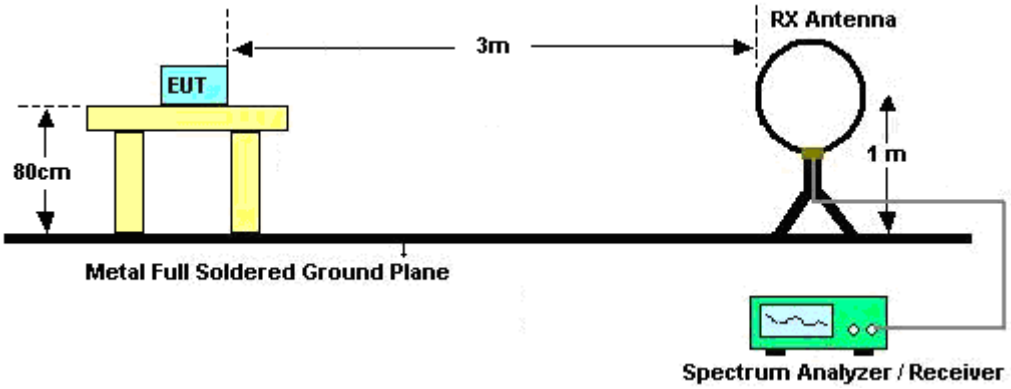
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

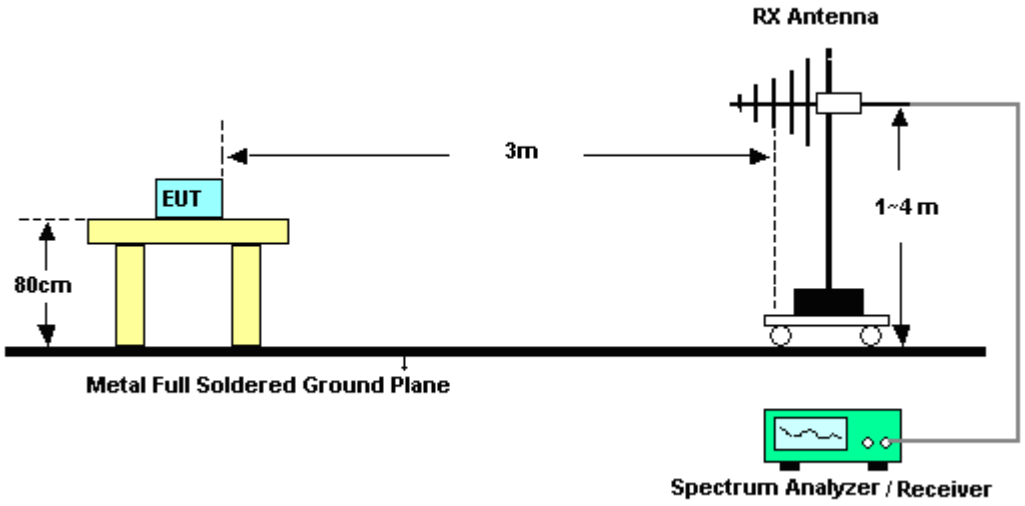
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna 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 is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

3.4.4 Test Setup

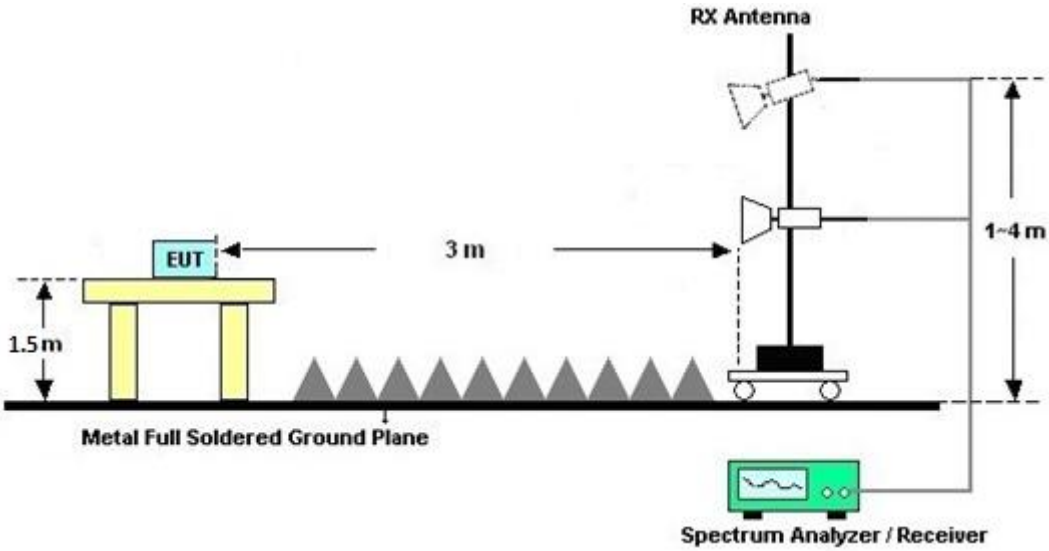
For radiated emissions below 30MHz



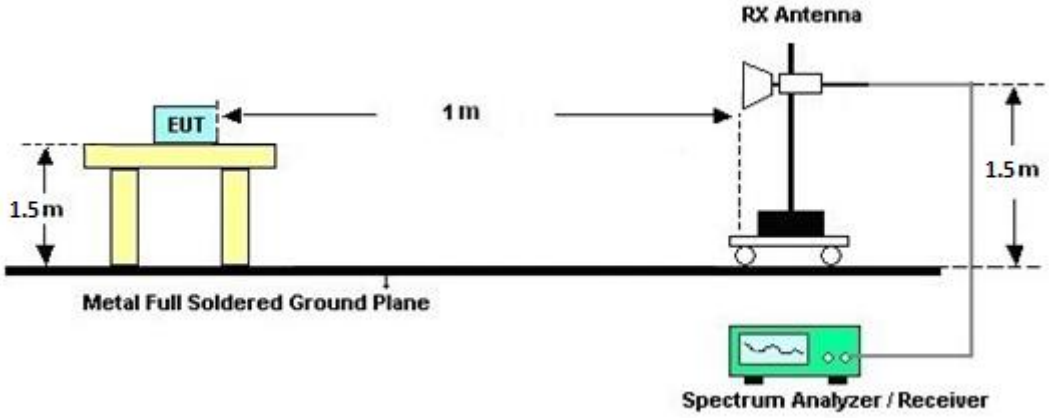
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is 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.

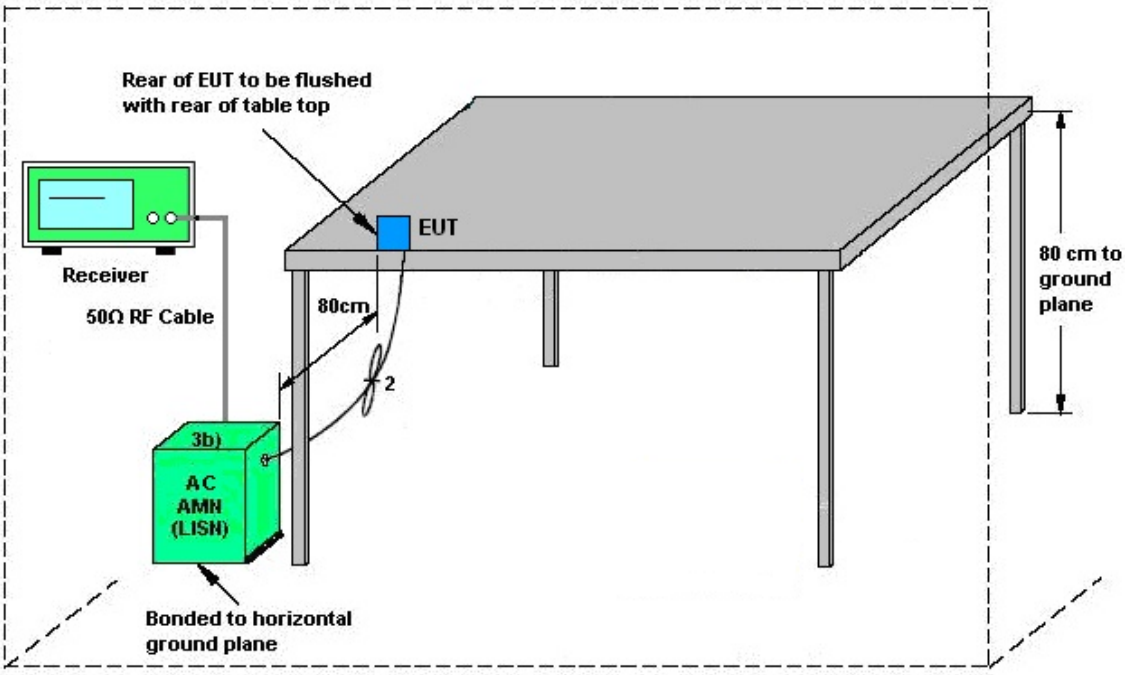
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

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

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Sep. 07, 2021	Nov. 23, 2021~ Jan. 06, 2022	Sep. 06, 2022	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz~18GHz	Jul. 13, 2021	Nov. 23, 2021~ Jan. 06, 2022	Jul. 12, 2022	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 21, 2021	Nov. 23, 2021~ Jan. 06, 2022	May 20, 2022	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9kHz~1GHz	Dec. 16, 2020	Nov. 23, 2021~ Dec. 14, 2021	Dec. 15, 2021	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9kHz~1GHz	Dec. 15, 2021	Dec. 15, 2021~ Jan. 06, 2022	Dec. 14, 2022	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 18, 2021	Nov. 23, 2021~ Jan. 06, 2022	May 17, 2022	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 26, 2021	Nov. 23, 2021~ Jan. 06, 2022	Oct. 25, 2022	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Nov. 23, 2021~ Jan. 06, 2022	Jun. 21, 2022	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 18, 2021	Nov. 23, 2021~ Jan. 06, 2022	Mar. 17, 2022	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 23, 2021~ Jan. 06, 2022	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 23, 2021~ Jan. 06, 2022	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-000992	N/A	N/A	Nov. 23, 2021~ Jan. 06, 2022	N/A	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 10, 2021	Nov. 23, 2021~ Jan. 06, 2022	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 10, 2021	Nov. 23, 2021~ Jan. 06, 2022	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Nov. 23, 2021~ Jan. 06, 2022	Feb. 21, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz~40GHz	Mar. 11, 2021	Nov. 23, 2021~ Jan. 06, 2022	Mar. 10, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 10, 2021	Nov. 23, 2021~ Jan. 06, 2022	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Nov. 23, 2021~ Jan. 06, 2022	Mar. 10, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 14, 2021	Nov. 23, 2021~ Jan. 06, 2022	Sep. 13, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN5	6.75GHz High Pass Filter	Mar. 11, 2021	Nov. 23, 2021~ Jan. 06, 2022	Mar. 10, 2022	Radiation (03CH13-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Nov. 24, 2021~ Dec. 16, 2021	Nov. 15, 2022	Conducted (TH05-HY)
Power Meter	DARE	RPR3006W	13I00030SNO 31(NO:182)	10MHz~6GHz	Dec. 30, 2020	Nov. 24, 2021~ Dec. 16, 2021	Dec. 29, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Nov. 24, 2021~ Dec. 16, 2021	Aug. 29, 2022	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW191204(B OX8)	N/A	Jan. 07, 2021	Nov. 24, 2021~ Dec. 16, 2021	Jan. 06, 2022	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 15, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Nov. 15, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Nov. 15, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	Nov. 15, 2021	Nov. 30, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 15, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Nov. 15, 2021	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Nov. 15, 2021	Dec. 30, 2021	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.1 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.0 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.9 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	22.8~25.4	°C
Test Date:	2021/11/24~2021/12/16	Relative Humidity:	48.7~53.7	%

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TEST RESULTS DATA
26dB and 99% OBW

Band I single antenna														
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	1	36	5180	16.68	-	22.95	-	-		22.22	-		
11a	6Mbps	1	44	5220	16.68	-	22.40	-	-		22.22	-		
11a	6Mbps	1	48	5240	16.73	-	23.63	-	-		22.24	-		
HT20	MCS0	1	36	5180	17.88	-	23.53	-	-		22.52	-		
HT20	MCS0	1	44	5220	17.88	-	24.25	-	-		22.52	-		
HT20	MCS0	1	48	5240	17.88	-	23.80	-	-		22.52	-		
HT40	MCS0	1	38	5190	37.16	-	41.63	-	-		23.01	-		
HT40	MCS0	1	46	5230	37.76	-	62.64	-	-		23.01	-		
VHT80	MCS0	1	42	5210	76.12	-	86.24	-	-		23.01	-		

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	15.70	-		24.00	-	3.30	-		Pass
11a	6Mbps	1	44	5220	15.90	-		24.00	-	3.30	-		Pass
11a	6Mbps	1	48	5240	15.60	-		24.00	-	3.30	-		Pass
HT20	MCS0	1	36	5180	15.90	-		24.00	-	3.30	-		Pass
HT20	MCS0	1	44	5220	15.70	-		24.00	-	3.30	-		Pass
HT20	MCS0	1	48	5240	15.70	-		24.00	-	3.30	-		Pass
HT40	MCS0	1	38	5190	12.90	-		24.00	-	3.30	-		Pass
HT40	MCS0	1	46	5230	18.40	-		24.00	-	3.30	-		Pass
VHT20	MCS0	1	36	5180	15.80	-		24.00	-	3.30	-		Pass
VHT20	MCS0	1	44	5220	15.60	-		24.00	-	3.30	-		Pass
VHT20	MCS0	1	48	5240	15.60	-		24.00	-	3.30	-		Pass
VHT40	MCS0	1	38	5190	12.80	-		24.00	-	3.30	-		Pass
VHT40	MCS0	1	46	5230	18.30	-		24.00	-	3.30	-		Pass
VHT80	MCS0	1	42	5210	12.20	-		24.00	-	3.30	-		Pass

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TEST RESULTS DATA
Power Spectral Density

FCC Band I single antenna													
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	1	36	5180	6.22	-		11.00	-	3.30	-		Pass
11a	6Mbps	1	44	5220	6.53	-		11.00	-	3.30	-		Pass
11a	6Mbps	1	48	5240	6.46	-		11.00	-	3.30	-		Pass
HT20	MCS0	1	36	5180	6.52	-		11.00	-	3.30	-		Pass
HT20	MCS0	1	44	5220	6.24	-		11.00	-	3.30	-		Pass
HT20	MCS0	1	48	5240	6.23	-		11.00	-	3.30	-		Pass
HT40	MCS0	1	38	5190	0.29	-		11.00	-	3.30	-		Pass
HT40	MCS0	1	46	5230	5.42	-		11.00	-	3.30	-		Pass
VHT80	MCS0	1	42	5210	-2.60	-		11.00	-	3.30	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II single antenna															
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	1	52	5260	16.78	-	23.60	-	23.25	-	29.25	-	23.98	-	
11a	6Mbps	1	60	5300	16.73	-	24.13	-	23.24	-	29.24	-	23.98	-	
11a	6Mbps	1	64	5320	16.78	-	24.33	-	23.25	-	29.25	-	23.98	-	
HT20	MCS0	1	52	5260	17.88	-	24.40	-	23.52	-	29.52	-	23.98	-	
HT20	MCS0	1	60	5300	17.93	-	24.73	-	23.54	-	29.54	-	23.98	-	
HT20	MCS0	1	64	5320	17.93	-	24.35	-	23.54	-	29.54	-	23.98	-	
HT40	MCS0	1	54	5270	37.66	-	64.71	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	37.36	-	42.12	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	76.24	-	87.36	-	23.98	-	30.00	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna													
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	1	52	5260	18.30	-		23.98	-	2.80	-	30	Pass
11a	6Mbps	1	60	5300	18.40	-		23.98	-	2.80	-	30	Pass
11a	6Mbps	1	64	5320	18.30	-		23.98	-	2.80	-	30	Pass
HT20	MCS0	1	52	5260	18.20	-		23.98	-	2.80	-	30	Pass
HT20	MCS0	1	60	5300	18.20	-		23.98	-	2.80	-	30	Pass
HT20	MCS0	1	64	5320	18.20	-		23.98	-	2.80	-	30	Pass
HT40	MCS0	1	54	5270	18.40	-		23.98	-	2.80	-	30	Pass
HT40	MCS0	1	62	5310	15.90	-		23.98	-	2.80	-	30	Pass
VHT20	MCS0	1	52	5260	18.10	-		23.98	-	2.80	-	30	Pass
VHT20	MCS0	1	60	5300	18.10	-		23.98	-	2.80	-	30	Pass
VHT20	MCS0	1	64	5320	18.10	-		23.98	-	2.80	-	30	Pass
VHT40	MCS0	1	54	5270	18.30	-		23.98	-	2.80	-	30	Pass
VHT40	MCS0	1	62	5310	15.80	-		23.98	-	2.80	-	30	Pass
VHT80	MCS0	1	58	5290	15.10	-		23.98	-	2.80	-	30	Pass

TEST RESULTS DATA
Power Spectral Density

Band II single antenna													
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	1	52	5260	8.87	-		11.00	-	2.80	-		Pass
11a	6Mbps	1	60	5300	9.00	-		11.00	-	2.80	-		Pass
11a	6Mbps	1	64	5320	8.95	-		11.00	-	2.80	-		Pass
HT20	MCS0	1	52	5260	8.73	-		11.00	-	2.80	-		Pass
HT20	MCS0	1	60	5300	8.90	-		11.00	-	2.80	-		Pass
HT20	MCS0	1	64	5320	8.92	-		11.00	-	2.80	-		Pass
HT40	MCS0	1	54	5270	5.66	-		11.00	-	2.80	-		Pass
HT40	MCS0	1	62	5310	2.75	-		11.00	-	2.80	-		Pass
VHT80	MCS0	1	58	5290	0.07	-		11.00	-	2.80	-		Pass

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TEST RESULTS DATA
26dB and 99% OBW

Band III single antenna																
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	1	100	5500	16.73	-	22.93	-	23.24	-	29.24	-	23.98	-	----	----
11a	6Mbps	1	116	5580	16.73	-	23.05	-	23.24	-	29.24	-	23.98	-	----	----
11a	6Mbps	1	140	5700	16.78	-	24.20	-	23.25	-	29.25	-	23.98	-	----	----
HT20	MCS0	1	100	5500	17.93	-	23.95	-	23.54	-	29.54	-	23.98	-	----	----
HT20	MCS0	1	116	5580	17.93	-	24.23	-	23.54	-	29.54	-	23.98	-	----	----
HT20	MCS0	1	140	5700	17.93	-	24.30	-	23.54	-	29.54	-	23.98	-	----	----
HT40	MCS0	1	102	5510	37.36	-	61.16	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	37.66	-	61.61	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	37.86	-	65.16	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	106	5530	76.12	-	86.96	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	76.36	-	130.24	-	23.98	-	30.00	-	23.98	-	----	----

Band III straddle channel single antenna																
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	1	144	5720	13.49	-	16.88	-	22.30	-	28.30	-	23.27	-	2.65	-
HT20	MCS0	1	144	5720	14.09	-	17.02	-	22.49	-	28.49	-	23.31	-	3.8	-
HT40	MCS0	1	142	5710	33.78	-	43.89	-	23.98	-	30.00	-	23.98	-	3.27	-
VHT80	MCS0	1	138	5690	73.24	-	94.49	-	23.98	-	30.00	-	23.98	-	3.4	-

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TEST RESULTS DATA
Average Power Table

FCC Band III single antenna														
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	1	100	5500	18.40	-		23.98	-	2.80	-	30	Pass
11a	6Mbps	1	116	5580	18.10	-		23.98	-	2.80	-	30	Pass
11a	6Mbps	1	140	5700	18.40	-		23.98	-	2.80	-	30	Pass
HT20	MCS0	1	100	5500	18.20	-		23.98	-	2.80	-	30	Pass
HT20	MCS0	1	116	5580	18.20	-		23.98	-	2.80	-	30	Pass
HT20	MCS0	1	140	5700	16.30	-		23.98	-	2.80	-	30	Pass
HT40	MCS0	1	102	5510	17.70	-		23.98	-	2.80	-	30	Pass
HT40	MCS0	1	110	5550	18.30	-		23.98	-	2.80	-	30	Pass
HT40	MCS0	1	134	5670	18.40	-		23.98	-	2.80	-	30	Pass
VHT20	MCS0	1	100	5500	18.10	-		23.98	-	2.80	-	30	Pass
VHT20	MCS0	1	116	5580	18.10	-		23.98	-	2.80	-	30	Pass
VHT20	MCS0	1	140	5700	16.20	-		23.98	-	2.80	-	30	Pass
VHT40	MCS0	1	102	5510	17.60	-		23.98	-	2.80	-	30	Pass
VHT40	MCS0	1	110	5550	18.20	-		23.98	-	2.80	-	30	Pass
VHT40	MCS0	1	134	5670	18.30	-		23.98	-	2.80	-	30	Pass
VHT80	MCS0	1	106	5530	15.20	-		23.98	-	2.80	-	30	Pass
VHT80	MCS0	1	122	5610	18.20	-		23.98	-	2.80	-	30	Pass

FCC Band III straddle channel single antenna														
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	1	144	5720	18.40	-		23.27	-	2.80	-	30	Pass
HT20	MCS0	1	144	5720	18.30	-		23.31	-	2.80	-	30	Pass
HT40	MCS0	1	142	5710	18.20	-		23.98	-	2.80	-	30	Pass
VHT20	MCS0	1	144	5720	18.20	-		23.98	-	2.80	-	30	Pass
VHT40	MCS0	1	142	5710	18.10	-		23.98	-	2.80	-	30	Pass
VHT80	MCS0	1	138	5690	18.10	-		23.98	-	2.80	-	30	Pass

Report Number : FR1N0506E

TEST RESULTS DATA
Power Spectral Density

Band III single antenna													
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	1	100	5500	8.82	-		11.00	-	2.80	-		Pass
11a	6Mbps	1	116	5580	8.64	-		11.00	-	2.80	-		Pass
11a	6Mbps	1	140	5700	8.70	-		11.00	-	2.80	-		Pass
HT20	MCS0	1	100	5500	8.73	-		11.00	-	2.80	-		Pass
HT20	MCS0	1	116	5580	8.53	-		11.00	-	2.80	-		Pass
HT20	MCS0	1	140	5700	6.77	-		11.00	-	2.80	-		Pass
HT40	MCS0	1	102	5510	4.54	-		11.00	-	2.80	-		Pass
HT40	MCS0	1	110	5550	4.99	-		11.00	-	2.80	-		Pass
HT40	MCS0	1	134	5670	5.24	-		11.00	-	2.80	-		Pass
VHT80	MCS0	1	106	5530	0.21	-		11.00	-	2.80	-		Pass
VHT80	MCS0	1	122	5610	3.17	-		11.00	-	2.80	-		Pass

Band III straddle channel single antenna													
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	1	144	5720	8.91	-		11.00	-	2.80	-		Pass
HT20	MCS0	1	144	5720	8.80	-		11.00	-	2.80	-		Pass
HT40	MCS0	1	142	5710	4.98	-		11.00	-	2.80	-		Pass
VHT80	MCS0	1	138	5690	2.75	-		11.00	-	2.80	-		Pass

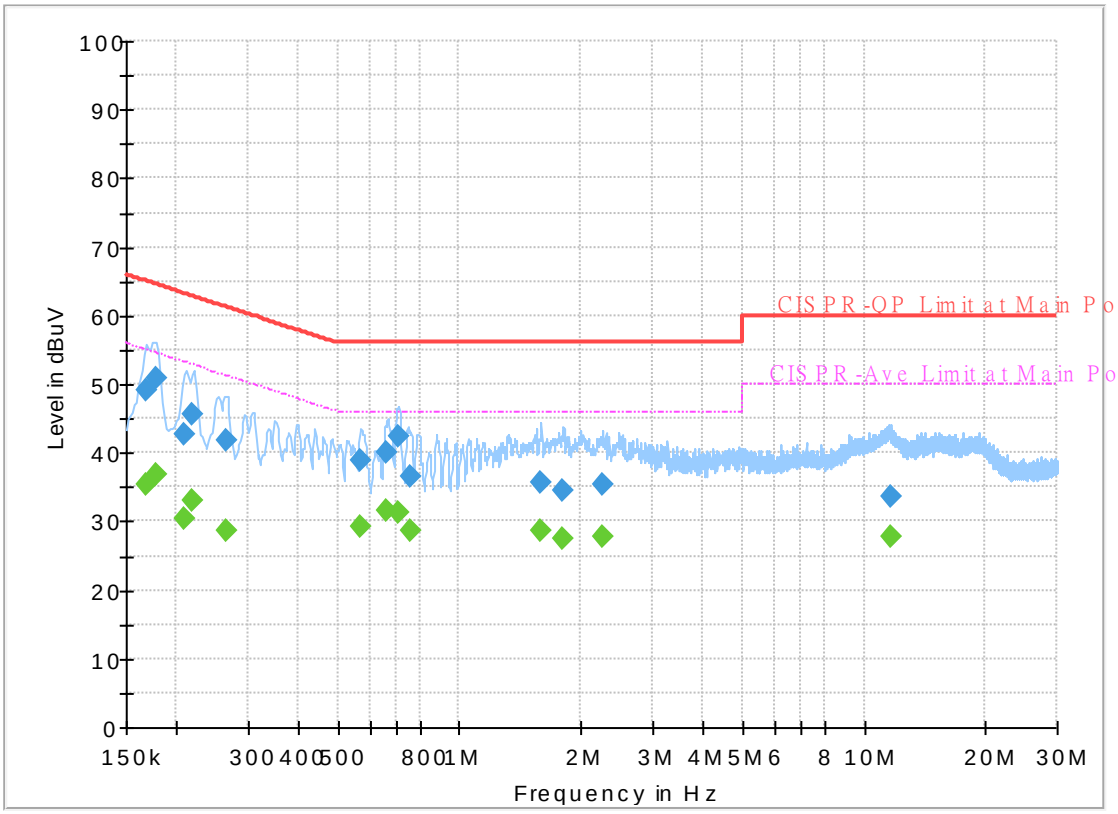
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	1N0506
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



Final_Result

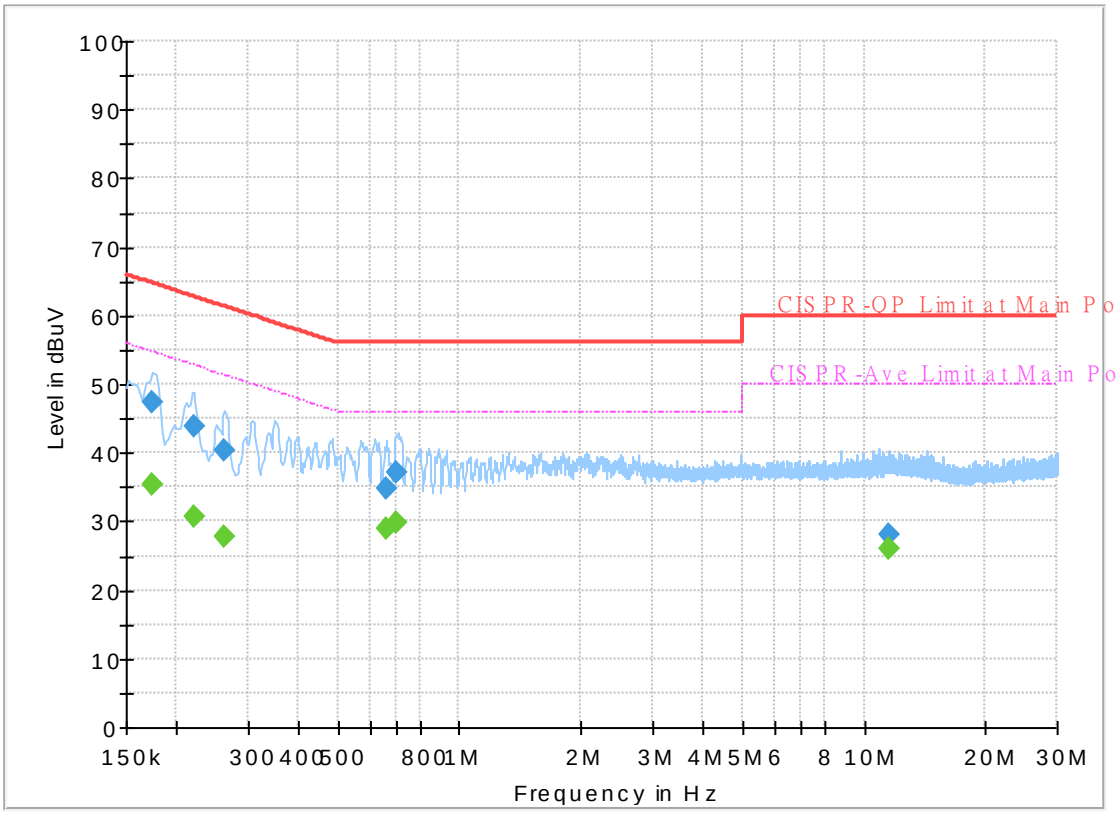
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	35.28	55.06	19.78	L1	OFF	19.7
0.168000	49.02	---	65.06	16.04	L1	OFF	19.7
0.177000	---	36.93	54.63	17.70	L1	OFF	19.7
0.177000	50.78	---	64.63	13.85	L1	OFF	19.7
0.208500	---	30.27	53.27	23.00	L1	OFF	19.7
0.208500	42.83	---	63.27	20.44	L1	OFF	19.7
0.217500	---	33.05	52.91	19.86	L1	OFF	19.7
0.217500	45.52	---	62.91	17.39	L1	OFF	19.7
0.264750	---	28.79	51.28	22.49	L1	OFF	19.7
0.264750	41.93	---	61.28	19.35	L1	OFF	19.7
0.568500	---	29.19	46.00	16.81	L1	OFF	19.9
0.568500	38.77	---	56.00	17.23	L1	OFF	19.9
0.658500	---	31.66	46.00	14.34	L1	OFF	20.0
0.658500	39.94	---	56.00	16.06	L1	OFF	20.0
0.708000	---	31.31	46.00	14.69	L1	OFF	20.0
0.708000	42.40	---	56.00	13.60	L1	OFF	20.0
0.759750	---	28.63	46.00	17.37	L1	OFF	20.0
0.759750	36.47	---	56.00	19.53	L1	OFF	20.0
1.592250	---	28.68	46.00	17.32	L1	OFF	20.2
1.592250	35.57	---	56.00	20.43	L1	OFF	20.2
1.794750	---	27.38	46.00	18.62	L1	OFF	20.2

1.794750	34.45	---	56.00	21.55	L1	OFF	20.2
2.253750	---	27.91	46.00	18.09	L1	OFF	20.1
2.253750	35.38	---	56.00	20.62	L1	OFF	20.1
11.638500	---	27.68	50.00	22.32	L1	OFF	20.2
11.638500	33.54	---	60.00	26.46	L1	OFF	20.2

EUT Information

Report NO :	1N0506
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.174750	---	35.27	54.73	19.46	N	OFF	19.7
0.174750	47.48	---	64.73	17.25	N	OFF	19.7
0.219750	---	30.75	52.83	22.08	N	OFF	19.7
0.219750	43.84	---	62.83	18.99	N	OFF	19.7
0.262500	---	27.84	51.35	23.51	N	OFF	19.7
0.262500	40.34	---	61.35	21.01	N	OFF	19.7
0.660750	---	28.97	46.00	17.03	N	OFF	20.0
0.660750	34.94	---	56.00	21.06	N	OFF	20.0
0.699000	---	29.70	46.00	16.30	N	OFF	20.0
0.699000	37.18	---	56.00	18.82	N	OFF	20.0
11.492250	---	25.94	50.00	24.06	N	OFF	20.2
11.492250	27.95	---	60.00	32.05	N	OFF	20.2

Appendix C. Radiated Spurious Emission

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

<Sample 1>

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10360	53.41	-14.79	68.2	59.78	39.94	10.15	56.46	168	358	P	H
		15540	61.93	-12.07	74	66.64	39.44	12.03	56.18	197	38	P	H
		15540	50.55	-3.45	54	55.26	39.44	12.03	56.18	197	38	A	H
													H
													H
													H
													H
													H
													H
802.11a													H
CH 36		10360	50.28	-17.92	68.2	56.65	39.94	10.15	56.46	396	228	P	V
5180MHz		15540	61.27	-12.73	74	65.98	39.44	12.03	56.18	156	266	P	V
		15540	49.69	-4.31	54	54.4	39.44	12.03	56.18	156	266	A	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10440	55.74	-12.46	68.2	61.79	40.22	10.19	56.46	245	23	P	H
		15660	62.2	-11.8	74	67.19	38.9	12.04	55.93	197	38	P	H
		15660	50.58	-3.42	54	55.57	38.9	12.04	55.93	197	38	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 44 5220MHz		10440	52.19	-16.01	68.2	58.24	40.22	10.19	56.46	400	123	P	V
		15660	61.06	-12.94	74	66.05	38.9	12.04	55.93	278	264	P	V
		15660	50.03	-3.97	54	55.02	38.9	12.04	55.93	278	264	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10480	56.18	-12.02	68.2	62.09	40.34	10.21	56.46	300	359	P	H
		15720	61.54	-12.46	74	66.61	38.68	12.05	55.8	194	38	P	H
		15720	50.95	-3.05	54	56.02	38.68	12.05	55.8	194	38	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 48 5240MHz		10480	50.92	-17.28	68.2	56.83	40.34	10.21	56.46	400	127	P	V
		15720	61.22	-12.78	74	66.29	38.68	12.05	55.8	307	272	P	V
		15720	49.74	-4.26	54	54.81	38.68	12.05	55.8	307	272	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5150	59.15	-14.85	74	46.62	32.2	6.84	26.51	210	311	P	H
		5150	49.86	-4.14	54	37.33	32.2	6.84	26.51	210	311	A	H
	*	5180	111.63	-	-	99.23	32.08	6.84	26.52	210	311	P	H
	*	5180	103.27	-	-	90.87	32.08	6.84	26.52	210	311	A	H
802.11n													H
HT20													H
CH 36		5149.5	56.95	-17.05	74	44.42	32.2	6.84	26.51	186	92	P	V
5180MHz		5150	47.49	-6.51	54	34.96	32.2	6.84	26.51	186	92	A	V
	*	5180	108.11	-	-	95.71	32.08	6.84	26.52	186	92	P	V
	*	5180	100.11	-	-	87.71	32.08	6.84	26.52	186	92	A	V
													V
													V
		5143.26	54.89	-19.11	74	42.37	32.19	6.84	26.51	200	312	P	H
		5149.76	45.83	-8.17	54	33.3	32.2	6.84	26.51	200	312	A	H
	*	5220	111.67	-	-	99.42	31.92	6.85	26.52	200	312	P	H
	*	5220	103.8	-	-	91.55	31.92	6.85	26.52	200	312	A	H
802.11n		5417.44	52.14	-21.86	74	39.87	31.9	6.92	26.55	200	312	P	H
HT20		5459.44	42.37	-11.63	54	30.05	31.94	6.93	26.55	200	312	A	H
CH 44		5091.26	55.18	-18.82	74	42.75	32.1	6.83	26.5	204	94	P	V
5220MHz		5149.76	44.99	-9.01	54	32.46	32.2	6.84	26.51	204	94	A	V
	*	5220	109.68	-	-	97.43	31.92	6.85	26.52	204	94	P	V
	*	5220	101.38	-	-	89.13	31.92	6.85	26.52	204	94	A	V
		5374.04	52.63	-21.37	74	40.53	31.74	6.9	26.54	204	94	P	V
		5459.16	42.29	-11.71	54	29.97	31.94	6.93	26.55	204	94	A	V

		5044.46	55.26	-18.74	74	42.86	32.07	6.83	26.5	216	313	P	H
		5150	44.66	-9.34	54	32.13	32.2	6.84	26.51	216	313	A	H
	*	5240	111	-	-	98.83	31.84	6.85	26.52	216	313	P	H
	*	5240	103.07	-	-	90.9	31.84	6.85	26.52	216	313	A	H
802.11n		5446.28	52.42	-21.58	74	40.15	31.9	6.92	26.55	216	313	P	H
HT20		5459.72	42.36	-11.64	54	30.04	31.94	6.93	26.55	216	313	A	H
CH 48		5061.36	54.95	-19.05	74	42.52	32.1	6.83	26.5	202	94	P	V
5240MHz		5149.24	44.17	-9.83	54	31.64	32.2	6.84	26.51	202	94	A	V
	*	5240	108.23	-	-	96.06	31.84	6.85	26.52	202	94	P	V
	*	5240	100.38	-	-	88.21	31.84	6.85	26.52	202	94	A	V
		5386.08	52.4	-21.6	74	40.21	31.82	6.91	26.54	202	94	P	V
		5460	42.31	-11.69	54	29.99	31.94	6.93	26.55	202	94	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	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)
		10360	54.67	-13.53	68.2	61.04	39.94	10.15	56.46	152	221	P	H
		15540	62.18	-11.82	74	66.89	39.44	12.03	56.18	192	38	P	H
		15540	50.39	-3.61	54	55.1	39.44	12.03	56.18	192	38	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 36		10360	49.43	-18.77	68.2	55.8	39.94	10.15	56.46	-	-	P	V
5180MHz		15540	61.33	-12.67	74	66.04	39.44	12.03	56.18	304	268	P	V
		15540	49.94	-4.06	54	54.65	39.44	12.03	56.18	304	268	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10440	58.4	-9.8	68.2	64.45	40.22	10.19	56.46	300	359	P	H
		15660	62.03	-11.97	74	67.02	38.9	12.04	55.93	194	38	P	H
		15660	50.54	-3.46	54	55.53	38.9	12.04	55.93	194	38	A	H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 44		10440	52.98	-15.22	68.2	59.03	40.22	10.19	56.46	400	127	P	V
5220MHz		15660	61.54	-12.46	74	66.53	38.9	12.04	55.93	289	268	P	V
		15660	49.01	-4.99	54	54	38.9	12.04	55.93	289	268	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10480	58.02	-10.18	68.2	63.93	40.34	10.21	56.46	300	359	P	H
		15720	61	-13	74	66.07	38.68	12.05	55.8	193	38	P	H
		15720	49.86	-4.14	54	54.93	38.68	12.05	55.8	193	38	A	H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 48		10480	51.93	-16.27	68.2	57.84	40.34	10.21	56.46	400	128	P	V
5240MHz		15720	61	-13	74	66.07	38.68	12.05	55.8	293	275	P	V
		15720	48.94	-5.06	54	54.01	38.68	12.05	55.8	293	275	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5148.98	57.97	-16.03	74	45.44	32.2	6.84	26.51	213	311	P	H
		5149.76	52.11	-1.89	54	39.58	32.2	6.84	26.51	213	311	A	H
	*	5190	104.67	-	-	92.31	32.04	6.84	26.52	213	311	P	H
	*	5190	96.76	-	-	84.4	32.04	6.84	26.52	213	311	A	H
		5394.76	51.69	-22.31	74	39.46	31.87	6.91	26.55	213	311	P	H
		5457.48	43.62	-10.38	54	31.31	31.93	6.93	26.55	213	311	A	H
		5150	56.41	-17.59	74	43.88	32.2	6.84	26.51	220	90	P	V
		5150	49.59	-4.41	54	37.06	32.2	6.84	26.51	220	90	A	V
	*	5190	102.01	-	-	89.65	32.04	6.84	26.52	220	90	P	V
	*	5190	94.37	-	-	82.01	32.04	6.84	26.52	220	90	A	V
		5403.44	52.68	-21.32	74	40.42	31.9	6.91	26.55	220	90	P	V
		5448.8	43.78	-10.22	54	31.51	31.9	6.92	26.55	220	90	A	V
802.11n HT40 CH 46 5230MHz		5150	55.53	-18.47	74	43	32.2	6.84	26.51	199	316	P	H
		5149.24	48.06	-5.94	54	35.53	32.2	6.84	26.51	199	316	A	H
	*	5230	109.16	-	-	96.95	31.88	6.85	26.52	199	316	P	H
	*	5230	101.14	-	-	88.93	31.88	6.85	26.52	199	316	A	H
		5444.88	51.81	-22.19	74	39.54	31.9	6.92	26.55	199	316	P	H
		5446.28	43.73	-10.27	54	31.46	31.9	6.92	26.55	199	316	A	H
		5067.6	53.93	-20.07	74	41.5	32.1	6.83	26.5	260	83	P	V
		5148.98	46.39	-7.61	54	33.86	32.2	6.84	26.51	260	83	A	V
	*	5230	105.69	-	-	93.48	31.88	6.85	26.52	260	83	P	V
	*	5230	97.7	-	-	85.49	31.88	6.85	26.52	260	83	A	V
		5460	51.51	-22.49	74	39.19	31.94	6.93	26.55	260	83	P	V
		5460	43.59	-10.41	54	31.27	31.94	6.93	26.55	260	83	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	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)
		10460	54.85	-13.35	68.2	60.83	40.28	10.2	56.46	168	0	P	H
		15690	55.79	-18.21	74	60.86	38.75	12.04	55.86	201	41	P	H
		15690	47.26	-6.74	54	52.33	38.75	12.04	55.86	201	41	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT40													H
CH 46		10460	50.97	-17.23	68.2	56.95	40.28	10.2	56.46	400	62	P	V
5230MHz		15690	56.48	-17.52	74	61.55	38.75	12.04	55.86	273	274	P	V
		15690	48.12	-5.88	54	53.19	38.75	12.04	55.86	273	274	A	V
													V
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													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	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		5140.14	58.26	-15.74	74	45.75	32.18	6.84	26.51	208	313	P	H
		5147.42	52.31	-1.69	54	39.79	32.19	6.84	26.51	208	313	A	H
	*	5210	100.39	-	-	88.11	31.96	6.84	26.52	208	313	P	H
	*	5210	92.55	-	-	80.27	31.96	6.84	26.52	208	313	A	H
		5449.64	52.05	-21.95	74	39.78	31.9	6.92	26.55	208	313	P	H
		5454.4	43.95	-10.05	54	31.65	31.92	6.93	26.55	208	313	A	H
		5139.62	57.95	-16.05	74	45.44	32.18	6.84	26.51	247	92	P	V
		5147.42	49.66	-4.34	54	37.14	32.19	6.84	26.51	247	92	A	V
	*	5210	97.01	-	-	84.73	31.96	6.84	26.52	247	92	P	V
	*	5210	89.44	-	-	77.16	31.96	6.84	26.52	247	92	A	V
		5377.68	51.36	-22.64	74	39.23	31.77	6.9	26.54	247	92	P	V
		5452.44	43.86	-10.14	54	31.57	31.91	6.93	26.55	247	92	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	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)
		10520	57.35	-10.85	68.2	63.19	40.36	10.23	56.43	176	359	P	H
		15780	61.43	-12.57	74	66.43	38.62	12.05	55.67	196	39	P	H
		15780	50.36	-3.64	54	55.36	38.62	12.05	55.67	196	39	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 52 5260MHz		10520	52.88	-15.32	68.2	58.72	40.36	10.23	56.43	370	230	P	V
		15780	61.04	-12.96	74	66.04	38.62	12.05	55.67	271	266	P	V
		15780	49.35	-4.65	54	54.35	38.62	12.05	55.67	271	266	A	V
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													V
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													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10600	59.14	-14.86	74	64.99	40.2	10.27	56.32	187	25	P	H
		10600	46.5	-7.5	54	52.35	40.2	10.27	56.32	187	25	A	H
		15900	60.94	-13.06	74	65.58	38.7	12.07	55.41	188	40	P	H
		15900	47.9	-6.1	54	52.54	38.7	12.07	55.41	188	40	A	H
													H
													H
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													H
													H
													H
													H
													H
i802.11a CH 60 5300MHz		10600	54.07	-19.93	74	59.92	40.2	10.27	56.32	400	65	P	V
		10600	41.79	-12.21	54	47.64	40.2	10.27	56.32	400	65	A	V
		15900	60.5	-13.5	74	65.14	38.7	12.07	55.41	271	275	P	V
		15900	47.96	-6.04	54	52.6	38.7	12.07	55.41	271	275	A	V
													V
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													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz		10640	59.33	-14.67	74	64.99	40.32	10.29	56.27	180	25	P	H
		10640	46.54	-7.46	54	52.2	40.32	10.29	56.27	180	25	A	H
		15960	59.18	-14.82	74	63.88	38.52	12.07	55.29	189	41	P	H
		15960	44.99	-9.01	54	49.69	38.52	12.07	55.29	189	41	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		10640	53.69	-20.31	74	59.35	40.32	10.29	56.27	400	161	P	V
		10640	40.81	-13.19	54	46.47	40.32	10.29	56.27	400	161	A	V
		15960	57.87	-16.13	74	62.57	38.52	12.07	55.29	232	258	P	V
		15960	45.67	-8.33	54	50.37	38.52	12.07	55.29	232	258	A	V
													V
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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	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)
		5034	53.59	-20.41	74	41.25	32	6.83	26.49	211	312	P	H
		5149.94	44.15	-9.85	54	31.62	32.2	6.84	26.51	211	312	A	H
	*	5260	110.78	-	-	98.67	31.78	6.86	26.53	211	312	P	H
	*	5260	103.03	-	-	90.92	31.78	6.86	26.53	211	312	A	H
802.11n		5425.68	51.38	-22.62	74	39.11	31.9	6.92	26.55	211	312	P	H
HT20		5457.36	42.37	-11.63	54	30.06	31.93	6.93	26.55	211	312	A	H
CH 52		5087.72	54.33	-19.67	74	41.9	32.1	6.83	26.5	201	94	P	V
5260MHz		5069.02	44.03	-9.97	54	31.6	32.1	6.83	26.5	201	94	A	V
	*	5260	108.15	-	-	96.04	31.78	6.86	26.53	201	94	P	V
	*	5260	100.17	-	-	88.06	31.78	6.86	26.53	201	94	A	V
		5396.16	51.61	-22.39	74	39.37	31.88	6.91	26.55	201	94	P	V
		5459.04	42.32	-11.68	54	30	31.94	6.93	26.55	201	94	A	V
		5019.04	54.43	-19.57	74	42.18	31.91	6.83	26.49	195	317	P	H
		5107.78	43.94	-10.06	54	31.49	32.12	6.84	26.51	195	317	A	H
	*	5300	110.07	-	-	98.02	31.7	6.88	26.53	195	317	P	H
	*	5300	101.94	-	-	89.89	31.7	6.88	26.53	195	317	A	H
802.11n		5362.8	52.61	-21.39	74	40.57	31.68	6.9	26.54	195	317	P	H
HT20		5350.08	43.84	-10.16	54	31.89	31.6	6.89	26.54	195	317	A	H
CH 60		5131.24	53.98	-20.02	74	41.49	32.16	6.84	26.51	200	89	P	V
5300MHz		5069.7	43.98	-10.02	54	31.55	32.1	6.83	26.5	200	89	A	V
	*	5300	106.77	-	-	94.72	31.7	6.88	26.53	200	89	P	V
	*	5300	98.85	-	-	86.8	31.7	6.88	26.53	200	89	A	V
		5413.68	51.18	-22.82	74	38.92	31.9	6.91	26.55	200	89	P	V
		5350.08	42.7	-11.3	54	30.75	31.6	6.89	26.54	200	89	A	V

	*	5320	109.41	-	-	97.4	31.66	6.88	26.53	215	317	P	H
	*	5320	101.44	-	-	89.43	31.66	6.88	26.53	215	317	A	H
		5355.2	54.78	-19.22	74	42.8	31.63	6.89	26.54	215	317	P	H
		5350.08	46.78	-7.22	54	34.83	31.6	6.89	26.54	215	317	A	H
802.11n													H
HT20													H
CH 64	*	5320	106.35	-	-	94.34	31.66	6.88	26.53	204	91	P	V
5320MHz	*	5320	98.55	-	-	86.54	31.66	6.88	26.53	204	91	A	V
		5352.64	53.12	-20.88	74	41.15	31.62	6.89	26.54	204	91	P	V
		5350.08	44.68	-9.32	54	32.73	31.6	6.89	26.54	204	91	A	V
													V
													V

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

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	55.93	-12.27	68.2	61.77	40.36	10.23	56.43	176	359	P	H
		15780	58.42	-15.58	74	63.42	38.62	12.05	55.67	200	39	P	H
		15780	47.79	-6.21	54	52.79	38.62	12.05	55.67	200	39	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 52		10520	48.99	-19.21	68.2	54.83	40.36	10.23	56.43	370	230	P	V
5260MHz		15780	59.08	-14.92	74	64.08	38.62	12.05	55.67	292	275	P	V
		15780	48.16	-5.84	54	53.16	38.62	12.05	55.67	292	275	A	V
													V
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													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10600	56	-18	74	61.85	40.2	10.27	56.32	180	22	P	H
		10600	45.74	-8.26	54	51.59	40.2	10.27	56.32	180	22	A	H
		15900	58.42	-15.58	74	63.06	38.7	12.07	55.41	195	41	P	H
		15900	46.91	-7.09	54	51.55	38.7	12.07	55.41	195	41	A	H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 60		10600	52.46	-21.54	74	58.31	40.2	10.27	56.32	400	52	P	V
5300MHz		10600	42	-12	54	47.85	40.2	10.27	56.32	400	52	A	V
		15900	58.3	-15.7	74	62.94	38.7	12.07	55.41	291	273	P	V
		15900	46.96	-7.04	54	51.6	38.7	12.07	55.41	291	273	A	V
													V
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													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10640	55.02	-18.98	74	60.68	40.32	10.29	56.27	182	15	P	H
		10640	46.51	-7.49	54	52.17	40.32	10.29	56.27	182	15	A	H
		15960	55.42	-18.58	74	60.12	38.52	12.07	55.29	193	41	P	H
		15960	44.65	-9.35	54	49.35	38.52	12.07	55.29	193	41	A	H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 64		10640	52.42	-21.58	74	58.08	40.32	10.29	56.27	397	56	P	V
5320MHz		10640	41.51	-12.49	54	47.17	40.32	10.29	56.27	397	56	A	V
		15960	55.56	-18.44	74	60.26	38.52	12.07	55.29	290	274	P	V
		15960	44.76	-9.24	54	49.46	38.52	12.07	55.29	290	274	A	V
													V
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													V
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													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5012.24	54.49	-19.51	74	42.28	31.87	6.83	26.49	214	318	P	H
		5130.56	45.77	-8.23	54	33.28	32.16	6.84	26.51	214	318	A	H
	*	5270	108.2	-	-	96.11	31.76	6.86	26.53	214	318	P	H
	*	5270	100.42	-	-	88.33	31.76	6.86	26.53	214	318	A	H
		5360.64	52.8	-21.2	74	40.78	31.66	6.9	26.54	214	318	P	H
		5356.08	45.12	-8.88	54	33.13	31.64	6.89	26.54	214	318	A	H
		5128.18	54.05	-19.95	74	41.56	32.16	6.84	26.51	244	94	P	V
		5114.58	45.67	-8.33	54	33.21	32.13	6.84	26.51	244	94	A	V
	*	5270	104.91	-	-	92.82	31.76	6.86	26.53	244	94	P	V
	*	5270	97	-	-	84.91	31.76	6.86	26.53	244	94	A	V
		5449.2	51.8	-22.2	74	39.53	31.9	6.92	26.55	244	94	P	V
		5452.32	43.63	-10.37	54	31.34	31.91	6.93	26.55	244	94	A	V
802.11n HT40 CH 62 5310MHz		5089.08	54.14	-19.86	74	41.71	32.1	6.83	26.5	204	316	P	H
		5078.88	45.73	-8.27	54	33.3	32.1	6.83	26.5	204	316	A	H
	*	5310	105.29	-	-	93.26	31.68	6.88	26.53	204	316	P	H
	*	5310	97.32	-	-	85.29	31.68	6.88	26.53	204	316	A	H
		5351.76	58.1	-15.9	74	46.14	31.61	6.89	26.54	204	316	P	H
		5350.08	50.92	-3.08	54	38.97	31.6	6.89	26.54	204	316	A	H
		5055.08	54.45	-19.55	74	42.02	32.1	6.83	26.5	240	89	P	V
		5051.34	45.47	-8.53	54	33.04	32.1	6.83	26.5	240	89	A	V
	*	5310	100.97	-	-	88.94	31.68	6.88	26.53	240	89	P	V
	*	5310	93.29	-	-	81.26	31.68	6.88	26.53	240	89	A	V
		5353.2	54.98	-19.02	74	43.01	31.62	6.89	26.54	240	89	P	V
		5350.56	47.55	-6.45	54	35.6	31.6	6.89	26.54	240	89	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	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		5128.86	54.52	-19.48	74	42.03	32.16	6.84	26.51	210	316	P	H
		5096.9	45.77	-8.23	54	33.34	32.1	6.83	26.5	210	316	A	H
	*	5290	101.91	-	-	89.85	31.72	6.87	26.53	210	316	P	H
	*	5290	93.99	-	-	81.93	31.72	6.87	26.53	210	316	A	H
		5350.32	58.78	-15.22	74	46.83	31.6	6.89	26.54	210	316	P	H
		5350.08	52.19	-1.81	54	40.24	31.6	6.89	26.54	210	316	A	H
		5103.02	53.98	-20.02	74	41.53	32.11	6.84	26.5	240	91	P	V
		5054.06	45.48	-8.52	54	33.05	32.1	6.83	26.5	240	91	A	V
	*	5290	97.96	-	-	85.9	31.72	6.87	26.53	240	91	P	V
	*	5290	90.24	-	-	78.18	31.72	6.87	26.53	240	91	A	V
		5354.4	54.61	-19.39	74	42.63	31.63	6.89	26.54	240	91	P	V
		5350.08	48.56	-5.44	54	36.61	31.6	6.89	26.54	240	91	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	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 140 5700MHz	*	5700	112.55	-	-	99.98	32.2	7.01	26.64	196	319	P	H
	*	5700	104.7	-	-	92.13	32.2	7.01	26.64	196	319	A	H
		5725	65.12	-3.08	68.2	52.45	32.3	7.02	26.65	196	319	P	H
													H
													H
													H
	*	5700	106.84	-	-	94.27	32.2	7.01	26.64	300	236	P	V
	*	5700	99.08	-	-	86.51	32.2	7.01	26.64	300	236	A	V
		5729	60.56	-7.64	68.2	47.87	32.32	7.02	26.65	300	236	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	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)
		11000	55.93	-18.07	74	60.53	40.7	10.47	55.77	172	17	P	H
		11000	45.15	-8.85	54	49.75	40.7	10.47	55.77	172	17	A	H
		16500	46.23	-21.97	68.2	49.38	39.9	12.26	55.31	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 100 5500MHz													H
		11000	50.06	-23.94	74	54.66	40.7	10.47	55.77	400	51	P	V
		11000	41.22	-12.78	54	45.82	40.7	10.47	55.77	400	51	A	V
		16500	46.79	-21.41	68.2	49.94	39.9	12.26	55.31	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11160	53.53	-20.47	74	58.8	39.96	10.54	55.77	177	21	P	H
		11160	42.98	-11.02	54	48.25	39.96	10.54	55.77	177	21	A	H
		16740	47.83	-20.37	68.2	50.75	40.26	12.35	55.53	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 116 5580MHz													H
		11160	49.81	-24.19	74	55.08	39.96	10.54	55.77	400	45	P	V
		11160	39.13	-14.87	54	44.4	39.96	10.54	55.77	400	45	A	V
		16740	47.67	-20.53	68.2	50.59	40.26	12.35	55.53	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11400	54.35	-19.65	74	59.59	39.9	10.64	55.78	156	19	P	H
		11400	43.02	-10.98	54	48.26	39.9	10.64	55.78	156	19	A	H
		17100	48.03	-20.17	68.2	51.06	40.4	12.52	55.95	201	151	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 140 5700MHz		11400	50.33	-23.67	74	55.57	39.9	10.64	55.78	400	62	P	V
		11400	39.83	-14.17	54	45.07	39.9	10.64	55.78	400	62	A	V
		17100	48.5	-19.7	68.2	51.53	40.4	12.52	55.95	250	198	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.76	55.82	-18.18	74	43.5	31.94	6.93	26.55	194	321	P	H
		5469.84	62.4	-5.8	68.2	50.05	31.98	6.93	26.56	194	321	P	H
		5460	46.18	-7.82	54	33.86	31.94	6.93	26.55	194	321	A	H
	*	5500	111.27	-	-	98.79	32.1	6.94	26.56	194	321	P	H
802.11n	*	5500	103.06	-	-	90.58	32.1	6.94	26.56	194	321	A	H
HT20													H
CH 100		5457.2	53.61	-20.39	74	41.3	31.93	6.93	26.55	321	232	P	V
5500MHz		5470	57.42	-10.78	68.2	45.07	31.98	6.93	26.56	321	232	P	V
		5460	43.68	-10.32	54	31.36	31.94	6.93	26.55	321	232	A	V
	*	5500	106.33	-	-	93.85	32.1	6.94	26.56	321	232	P	V
	*	5500	98.46	-	-	85.98	32.1	6.94	26.56	321	232	A	V
													V
		5398.48	53.13	-20.87	74	40.88	31.89	6.91	26.55	212	316	P	H
		5462.56	52.71	-15.49	68.2	40.38	31.95	6.93	26.55	212	316	P	H
		5459.44	42.78	-11.22	54	30.46	31.94	6.93	26.55	212	316	A	H
	*	5580	111.49	-	-	99.12	32	6.96	26.59	212	316	P	H
802.11n	*	5580	103.66	-	-	91.29	32	6.96	26.59	212	316	A	H
HT20		5763.425	53.38	-14.82	68.2	40.61	32.4	7.04	26.67	212	316	P	H
CH 116		5440.96	53.48	-20.52	74	41.21	31.9	6.92	26.55	308	239	P	V
5580MHz		5463.76	53.31	-14.89	68.2	40.97	31.96	6.93	26.55	308	239	P	V
		5459.92	42.48	-11.52	54	30.16	31.94	6.93	26.55	308	239	A	V
	*	5580	107.33	-	-	94.96	32	6.96	26.59	308	239	P	V
	*	5580	99.64	-	-	87.27	32	6.96	26.59	308	239	A	V
		5727.515	52.92	-15.28	68.2	40.24	32.31	7.02	26.65	308	239	P	V

	*	5700	111.07	-	-	98.5	32.2	7.01	26.64	196	315	P	H
	*	5700	102.9	-	-	90.33	32.2	7.01	26.64	196	315	A	H
		5725.16	65.52	-2.68	68.2	52.85	32.3	7.02	26.65	196	315	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	104.04	-	-	91.47	32.2	7.01	26.64	345	249	P	V
5700MHz	*	5700	95.98	-	-	83.41	32.2	7.01	26.64	345	249	A	V
		5725.56	58.63	-9.57	68.2	45.96	32.3	7.02	26.65	345	249	P	V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	55.77	-18.23	74	60.37	40.7	10.47	55.77	164	17	P	H
		11000	44.63	-9.37	54	49.23	40.7	10.47	55.77	164	17	A	H
		16500	46.49	-21.71	68.2	49.64	39.9	12.26	55.31	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 100		11000	52.36	-21.64	74	56.96	40.7	10.47	55.77	400	61	P	V
5500MHz		11000	40.7	-13.3	54	45.3	40.7	10.47	55.77	400	61	A	V
		16500	46.89	-21.31	68.2	50.04	39.9	12.26	55.31	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11160	53.31	-20.69	74	58.58	39.96	10.54	55.77	172	17	P	H
		11160	42.46	-11.54	54	47.73	39.96	10.54	55.77	172	17	A	H
		16740	46.66	-21.54	68.2	49.58	40.26	12.35	55.53	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 116		11160	47.72	-26.28	74	52.99	39.96	10.54	55.77	-	-	P	V
5580MHz		16740	47.04	-21.16	68.2	49.96	40.26	12.35	55.53	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11400	53.44	-20.56	74	58.68	39.9	10.64	55.78	152	7	P	H
		11400	40.96	-13.04	54	46.2	39.9	10.64	55.78	152	7	A	H
		17100	49.47	-18.73	68.2	52.5	40.4	12.52	55.95	203	150	P	H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 140		11400	51.27	-22.73	74	56.51	39.9	10.64	55.78	281	60	P	V
5700MHz		11400	39.19	-14.81	54	44.43	39.9	10.64	55.78	281	60	A	V
		17100	49.23	-18.97	68.2	52.26	40.4	12.52	55.95	249	199	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.92	59.1	-14.9	74	46.78	31.94	6.93	26.55	182	325	P	H
		5468.08	63.99	-4.21	68.2	51.65	31.97	6.93	26.56	182	325	P	H
		5458.48	51.22	-2.78	54	38.91	31.93	6.93	26.55	182	325	A	H
	*	5510	108.17	-	-	95.71	32.08	6.94	26.56	182	325	P	H
802.11n	*	5510	99.93	-	-	87.47	32.08	6.94	26.56	182	325	A	H
HT40		5729.72	54.09	-14.11	68.2	41.4	32.32	7.02	26.65	182	325	P	H
CH 102		5439.04	53.56	-20.44	74	41.29	31.9	6.92	26.55	269	248	P	V
5510MHz		5467.84	56.28	-11.92	68.2	43.94	31.97	6.93	26.56	269	248	P	V
		5457.28	46.29	-7.71	54	33.98	31.93	6.93	26.55	269	248	A	V
	*	5510	103.28	-	-	90.82	32.08	6.94	26.56	269	248	P	V
	*	5510	95.33	-	-	82.87	32.08	6.94	26.56	269	248	A	V
		5727.515	52.48	-15.72	68.2	39.8	32.31	7.02	26.65	269	248	P	V
		5452.24	52.92	-21.08	74	40.63	31.91	6.93	26.55	181	341	P	H
		5465.2	53.73	-14.47	68.2	41.4	31.96	6.93	26.56	181	341	P	H
		5456.56	45.39	-8.61	54	33.08	31.93	6.93	26.55	181	341	A	H
	*	5550	110.1	-	-	97.73	32	6.95	26.58	181	341	P	H
802.11n	*	5550	101.43	-	-	89.06	32	6.95	26.58	181	341	A	H
HT40		5733.5	52.32	-15.88	68.2	39.62	32.33	7.02	26.65	181	341	P	H
CH 110		5424.88	52.24	-21.76	74	39.97	31.9	6.92	26.55	310	253	P	V
5550MHz		5468.56	51.96	-16.24	68.2	39.62	31.97	6.93	26.56	310	253	P	V
		5459.2	44.16	-9.84	54	31.84	31.94	6.93	26.55	310	253	A	V
	*	5550	103.85	-	-	91.48	32	6.95	26.58	310	253	P	V
	*	5550	95.57	-	-	83.2	32	6.95	26.58	310	253	A	V
		5760.275	53.47	-14.73	68.2	40.7	32.4	7.03	26.66	310	253	P	V

		5424.2	52.55	-21.45	74	40.28	31.9	6.92	26.55	194	316	P	H
		5467.6	50.59	-17.61	68.2	38.25	31.97	6.93	26.56	194	316	P	H
		5453.95	43.73	-10.27	54	31.43	31.92	6.93	26.55	194	316	A	H
	*	5670	109.76	-	-	97.37	32.02	7	26.63	194	316	P	H
802.11n	*	5670	102.15	-	-	89.76	32.02	7	26.63	194	316	A	H
HT40		5725.625	59.76	-8.44	68.2	47.09	32.3	7.02	26.65	194	316	P	H
CH 134		5431.55	51.28	-22.72	74	39.01	31.9	6.92	26.55	333	245	P	V
5670MHz		5462.7	51.5	-16.7	68.2	39.17	31.95	6.93	26.55	333	245	P	V
		5451.15	43.59	-10.41	54	31.31	31.9	6.93	26.55	333	245	A	V
	*	5670	105.07	-	-	92.68	32.02	7	26.63	333	245	P	V
	*	5670	97.15	-	-	84.76	32.02	7	26.63	333	245	A	V
		5730.035	54.79	-13.41	68.2	42.1	32.32	7.02	26.65	333	245	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5456.08	58.63	-15.37	74	46.33	31.92	6.93	26.55	203	317	P	H
		5460	60.75	-7.45	68.2	48.43	31.94	6.93	26.55	203	317	P	H
		5459.68	51.65	-2.35	54	39.33	31.94	6.93	26.55	203	317	A	H
	*	5530	103.08	-	-	90.66	32.04	6.95	26.57	203	317	P	H
802.11ac	*	5530	94.84	-	-	82.42	32.04	6.95	26.57	203	317	A	H
VHT80		5750.825	52.68	-15.52	68.2	39.91	32.4	7.03	26.66	203	317	P	H
CH 106		5454.64	54.89	-19.11	74	42.59	31.92	6.93	26.55	280	219	P	V
5530MHz		5466.4	57.25	-10.95	68.2	44.91	31.97	6.93	26.56	280	219	P	V
		5459.2	47.49	-6.51	54	35.17	31.94	6.93	26.55	280	219	A	V
	*	5530	98.62	-	-	86.2	32.04	6.95	26.57	280	219	P	V
	*	5530	90.34	-	-	77.92	32.04	6.95	26.57	280	219	A	V
		5748.62	52.49	-15.71	68.2	39.73	32.39	7.03	26.66	280	219	P	V
		5458.5	51.96	-22.04	74	39.65	31.93	6.93	26.55	198	317	P	H
		5464.45	52.62	-15.58	68.2	40.29	31.96	6.93	26.56	198	317	P	H
		5458.85	44.61	-9.39	54	32.29	31.94	6.93	26.55	198	317	A	H
	*	5610	106.83	-	-	94.48	31.98	6.97	26.6	198	317	P	H
802.11ac	*	5610	98.79	-	-	86.44	31.98	6.97	26.6	198	317	A	H
VHT80		5732.24	57.72	-10.48	68.2	45.02	32.33	7.02	26.65	198	317	P	H
CH 122		5371.7	50.91	-23.09	74	38.82	31.73	6.9	26.54	282	249	P	V
5610MHz		5465.85	50.47	-17.73	68.2	38.14	31.96	6.93	26.56	282	249	P	V
		5454.65	43.77	-10.23	54	31.47	31.92	6.93	26.55	282	249	A	V
	*	5610	102.11	-	-	89.76	31.98	6.97	26.6	282	249	P	V
	*	5610	93.82	-	-	81.47	31.98	6.97	26.6	282	249	A	V
		5732.87	54.01	-14.19	68.2	41.31	32.33	7.02	26.65	282	249	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		11440	56.51	-17.49	74	61.62	40.02	10.65	55.78	163	17	P	H
		11440	44.36	-9.64	54	49.47	40.02	10.65	55.78	163	17	A	H
		17160	49.79	-18.41	68.2	52.83	40.46	12.56	56.06	205	150	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11440	53.24	-20.76	74	58.35	40.02	10.65	55.78	310	65	P	V
		11440	42.13	-11.87	54	47.24	40.02	10.65	55.78	310	65	A	V
		17160	50.13	-18.07	68.2	53.17	40.46	12.56	56.06	248	200	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	53.78	-20.22	74	58.89	40.02	10.65	55.78	162	7	P	H
		11440	42.96	-11.04	54	48.07	40.02	10.65	55.78	162	7	A	H
		17160	49.62	-18.58	68.2	52.66	40.46	12.56	56.06	202	151	P	H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 144		11440	52.39	-21.61	74	57.5	40.02	10.65	55.78	287	61	P	V
5720MHz		11440	40.88	-13.12	54	45.99	40.02	10.65	55.78	287	61	A	V
		17160	49.08	-19.12	68.2	52.12	40.46	12.56	56.06	249	197	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	52.09	-21.91	74	57.26	39.96	10.65	55.78	160	8	P	H
		11420	42.77	-11.23	54	47.94	39.96	10.65	55.78	160	8	A	H
		17130	50.14	-18.06	68.2	53.19	40.43	12.53	56.01	204	152	P	H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT40													H
CH 142		11420	50.53	-23.47	74	55.7	39.96	10.65	55.78	304	65	P	V
5710MHz		11420	40.52	-13.48	54	45.69	39.96	10.65	55.78	304	65	A	V
		17130	49.71	-18.49	68.2	52.76	40.43	12.53	56.01	248	201	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	50.31	-23.69	74	55.6	39.86	10.63	55.78	159	7	P	H
		11380	40.92	-13.08	54	46.21	39.86	10.63	55.78	159	7	A	H
		17070	49.33	-18.87	68.2	52.31	40.43	12.49	55.9	203	154	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ac													H
VHT80													H
CH 138		11380	49.03	-24.97	74	54.32	39.86	10.63	55.78	302	65	P	V
5690MHz		11380	39.09	-14.91	54	44.38	39.86	10.63	55.78	302	65	A	V
		17070	49.17	-19.03	68.2	52.15	40.43	12.49	55.9	251	198	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30.97	21.47	-18.53	40	29.25	23.85	0.72	32.35	-	-	P	H
		124.09	18.31	-25.19	43.5	31.9	17.56	1.15	32.3	-	-	P	H
		651.77	27.07	-18.93	46	30.93	26.06	2.29	32.21	-	-	P	H
		850.62	30.46	-15.54	46	31.04	28.66	2.54	31.78	-	-	P	H
		959.26	32.24	-13.76	46	29.87	30.79	2.61	31.03	-	-	P	H
		964.11	32.87	-21.13	54	30.37	30.87	2.62	30.99	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		30.97	21.7	-18.3	40	29.48	23.85	0.72	32.35	-	-	P	V
LF		131.85	17.34	-26.16	43.5	30.93	17.54	1.16	32.29	-	-	P	V
		566.41	26.4	-19.6	46	30.59	25.9	2.16	32.25	-	-	P	V
		786.6	30.46	-15.54	46	32.21	27.84	2.46	32.05	-	-	P	V
		959.26	31.78	-14.22	46	29.41	30.79	2.61	31.03	-	-	P	V
		972.84	32.89	-21.11	54	30.31	30.85	2.64	30.91	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

<Sample 2>

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10480	53.15	-15.05	68.2	59.06	40.34	10.21	56.46	353	142	P	H
		15720	60.61	-13.39	74	65.68	38.68	12.05	55.8	232	68	P	H
		15720	49.32	-4.68	54	54.39	38.68	12.05	55.8	232	68	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 48 5240MHz													H
		10480	56.22	-11.98	68.2	62.13	40.34	10.21	56.46	100	4	P	V
		15720	56.62	-17.38	74	61.69	38.68	12.05	55.8	302	222	P	V
		15720	45.36	-8.64	54	50.43	38.68	12.05	55.8	302	222	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5147.68	59.44	-14.56	74	46.91	32.2	6.84	26.51	165	301	P	H
		5149.76	52.32	-1.68	54	39.79	32.2	6.84	26.51	165	301	A	H
	*	5210	99	-	-	86.72	31.96	6.84	26.52	165	301	P	H
	*	5210	91.23	-	-	78.95	31.96	6.84	26.52	165	301	A	H
		5434.8	51.91	-22.09	74	39.64	31.9	6.92	26.55	165	301	P	H
		5454.68	44.03	-9.97	54	31.73	31.92	6.93	26.55	165	301	A	H
		5137.28	60.16	-13.84	74	47.66	32.17	6.84	26.51	243	61	P	V
		5149.76	51.28	-2.72	54	38.75	32.2	6.84	26.51	243	61	A	V
	*	5210	99.84	-	-	87.56	31.96	6.84	26.52	243	61	P	V
	*	5210	92.09	-	-	79.81	31.96	6.84	26.52	243	61	A	V
		5425.56	52.08	-21.92	74	39.81	31.9	6.92	26.55	243	61	P	V
		5453	44.16	-9.84	54	31.87	31.91	6.93	26.55	243	61	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 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	51.01	-22.99	74	55.61	40.7	10.47	55.77	127	2	P	H
		11000	40.63	-13.37	54	45.23	40.7	10.47	55.77	127	2	A	H
		16500	55.12	-13.08	68.2	58.27	39.9	12.26	55.31	181	56	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 100 5500MHz		11000	55.02	-18.98	74	59.62	40.7	10.47	55.77	163	359	P	V
		11000	44.29	-9.71	54	48.89	40.7	10.47	55.77	163	359	A	V
		16500	52.11	-16.09	68.2	55.26	39.9	12.26	55.31	168	58	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.68	59.95	-14.05	74	47.63	31.94	6.93	26.55	124	292	P	H
		5460.88	59.72	-8.48	68.2	47.4	31.94	6.93	26.55	124	292	P	H
		5459.92	49.36	-4.64	54	37.04	31.94	6.93	26.55	124	292	A	H
	*	5530	103.74	-	-	91.32	32.04	6.95	26.57	124	292	P	H
802.11ac	*	5530	95.19	-	-	82.77	32.04	6.95	26.57	124	292	A	H
VHT80		5747.675	53.39	-14.81	68.2	40.63	32.39	7.03	26.66	124	292	P	H
CH 106		5456.32	62.07	-11.93	74	49.76	31.93	6.93	26.55	231	61	P	V
5530MHz		5463.76	64.52	-3.68	68.2	52.18	31.96	6.93	26.55	231	61	P	V
		5460	52.44	-1.56	54	40.12	31.94	6.93	26.55	231	61	A	V
	*	5530	106.37	-	-	93.95	32.04	6.95	26.57	231	61	P	V
	*	5530	98.29	-	-	85.87	32.04	6.95	26.57	231	61	A	V
		5752.4	53.48	-14.72	68.2	40.71	32.4	7.03	26.66	231	61	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30.97	21.88	-18.12	40	29.66	23.85	0.72	32.35	-	-	P	H
		127	19.57	-23.93	43.5	33.11	17.61	1.15	32.3	-	-	P	H
		570.29	26.88	-19.12	46	31.12	25.84	2.17	32.25	-	-	P	H
		876.81	30.56	-15.44	46	30.88	28.77	2.56	31.65	-	-	P	H
		955.38	32.15	-13.85	46	30.05	30.56	2.61	31.07	-	-	P	H
		968.96	32.68	-21.32	54	30.07	30.92	2.63	30.94	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		30.97	22.68	-17.32	40	30.46	23.85	0.72	32.35	-	-	P	V
LF		128.94	17.03	-26.47	43.5	30.64	17.53	1.16	32.3	-	-	P	V
		636.25	27.67	-18.33	46	31.62	26.01	2.27	32.23	-	-	P	V
		852.56	30.73	-15.27	46	31.23	28.73	2.54	31.77	-	-	P	V
		947.62	31.83	-14.17	46	30.25	30.12	2.6	31.14	-	-	P	V
		964.11	32.5	-21.5	54	30	30.87	2.62	30.99	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

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		(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 :	Yuan Lee, Jacky Hong, Wilson Wu and Peter Liao	**Temperature :**	20~25°C
		Relative Humidity :	40~60%

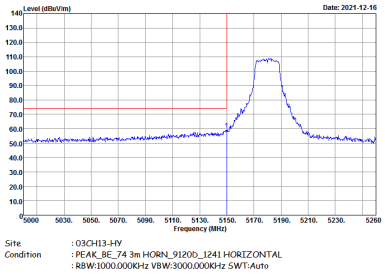
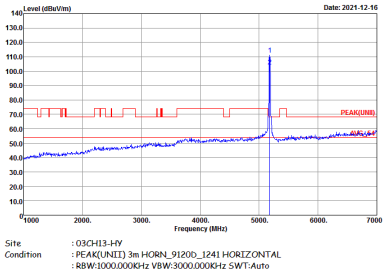
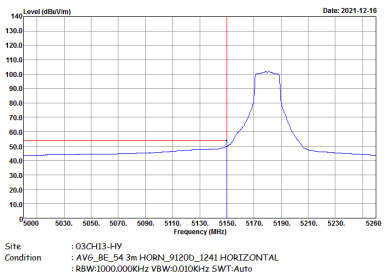
Note symbol

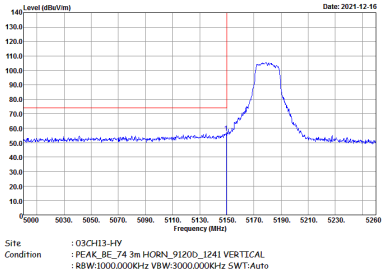
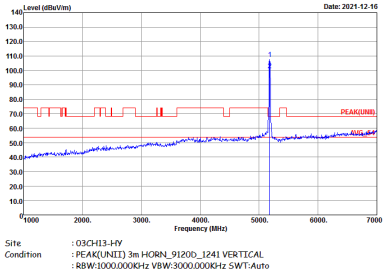
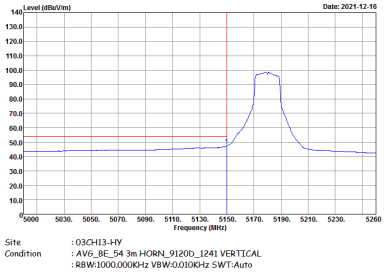
-L	**Low channel location**
-R	**High channel location**

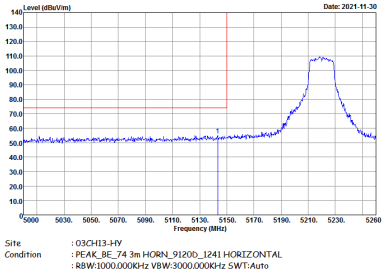
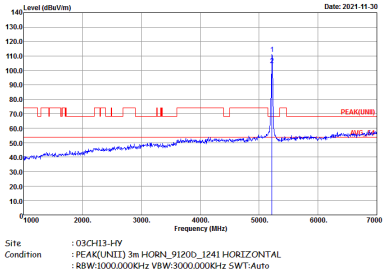
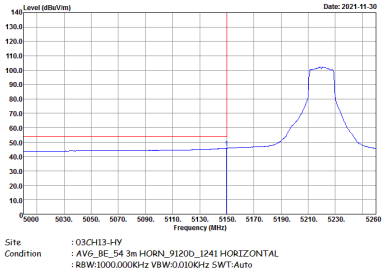
<Sample 1>

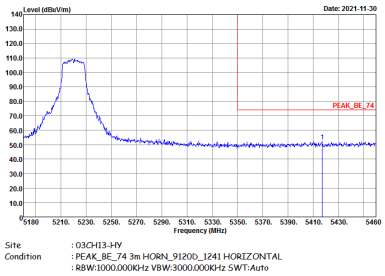
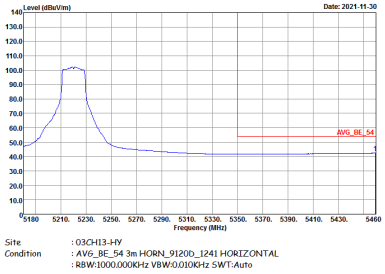
Band 1 - 5150~5250MHz

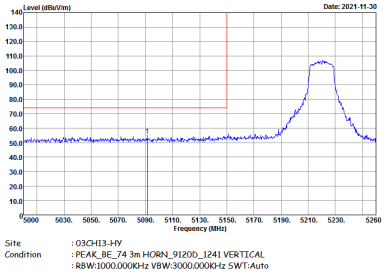
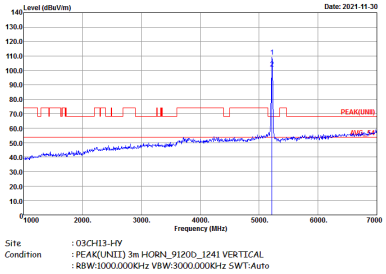
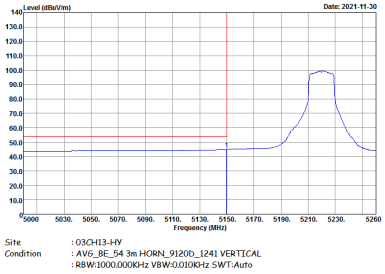
WIFI 802.11n HT20 (Band Edge @ 3m)

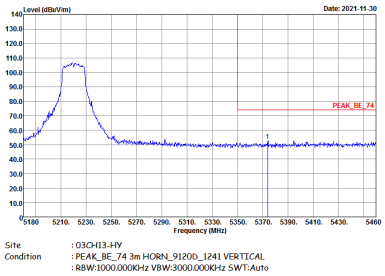
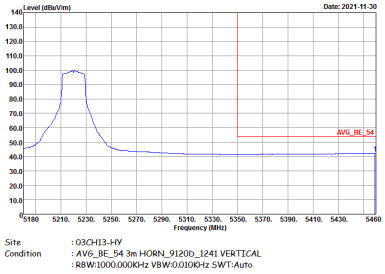
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

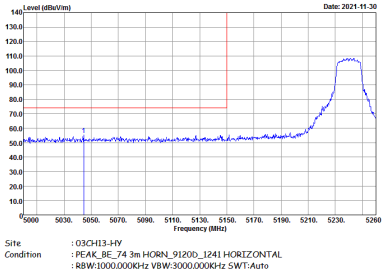
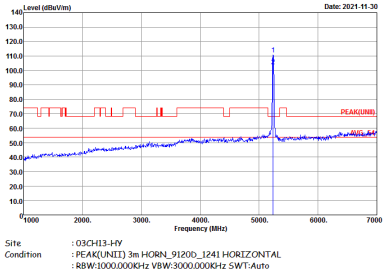
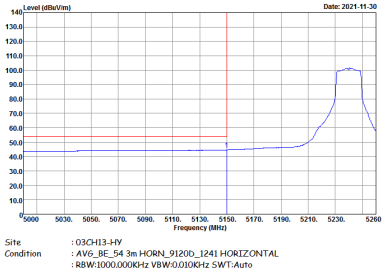
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

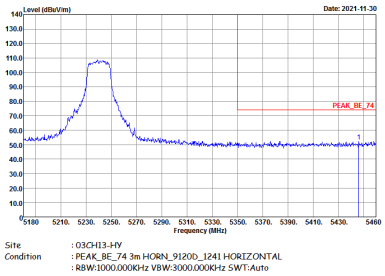
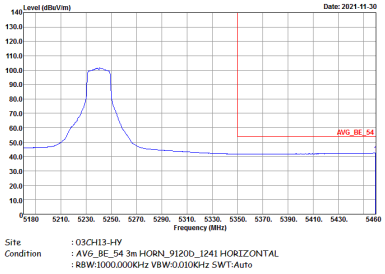
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

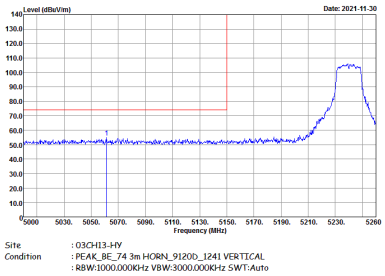
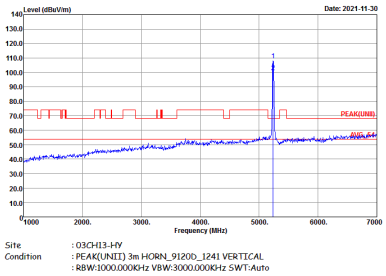
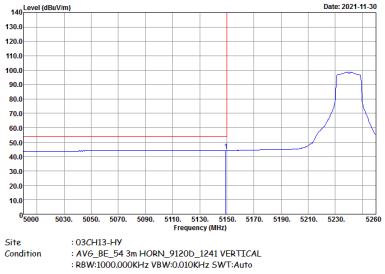
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

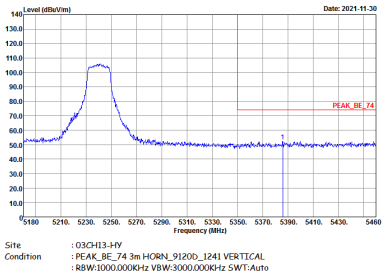
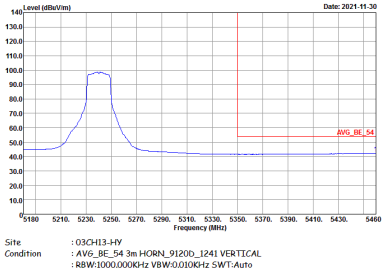
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

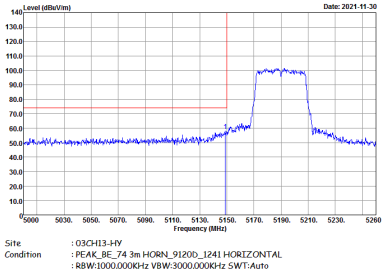
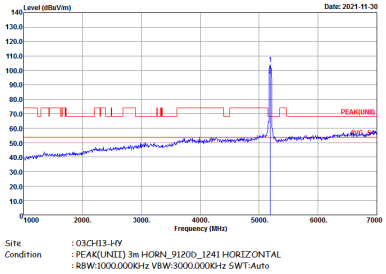
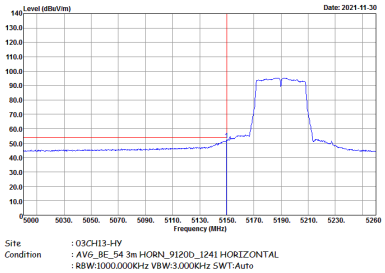
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

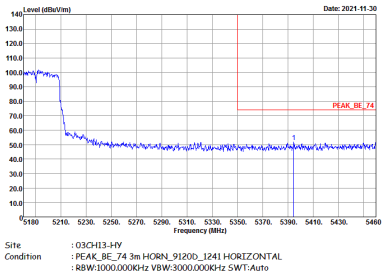
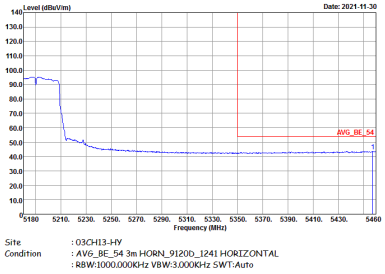
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

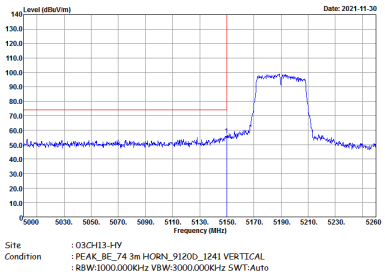
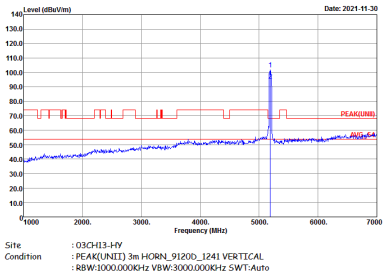
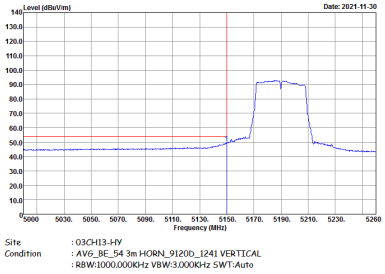
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

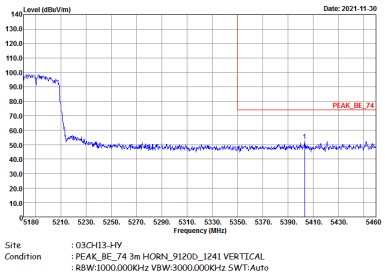
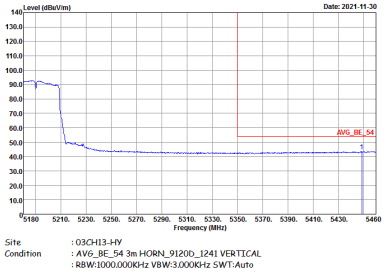
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

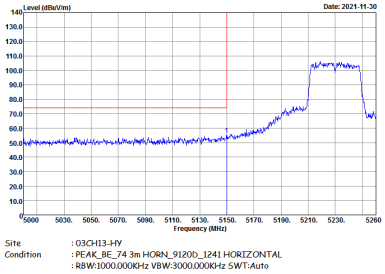
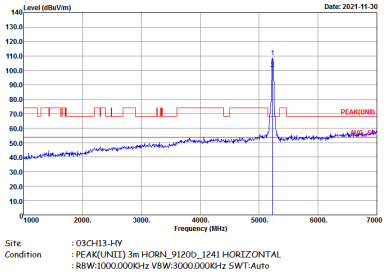
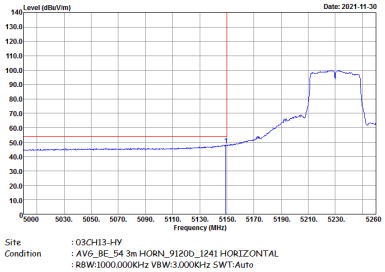
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

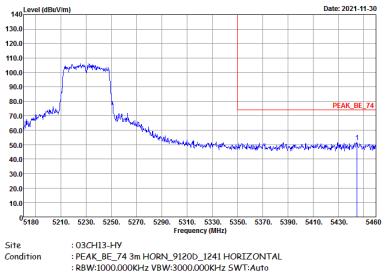
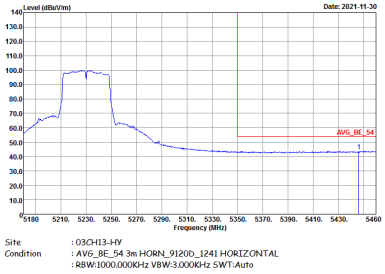
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

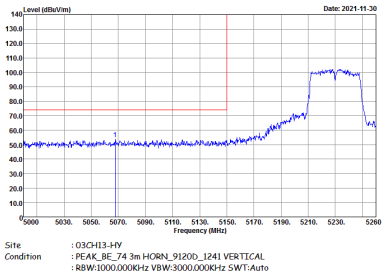
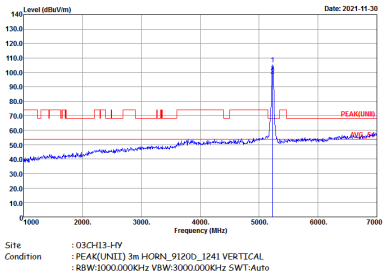
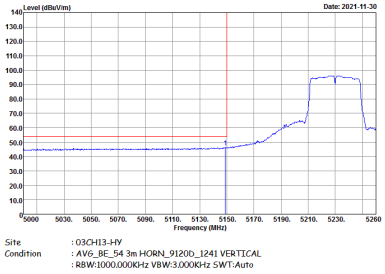
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

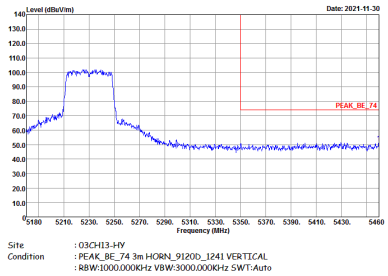
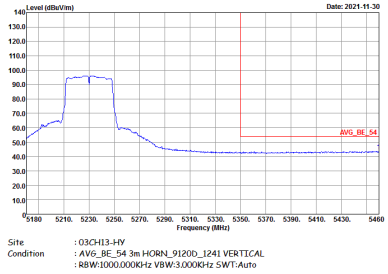
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

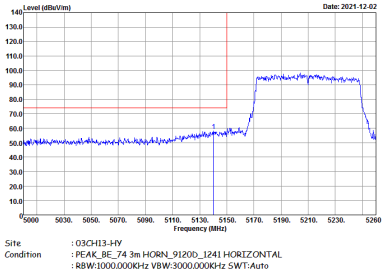
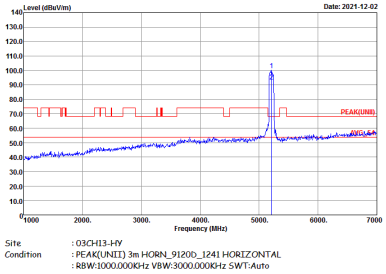
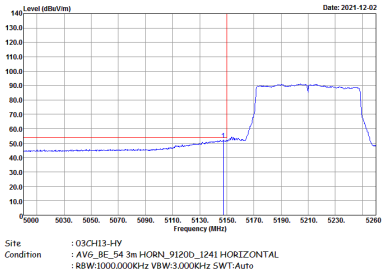
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

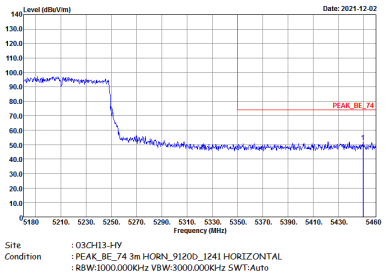
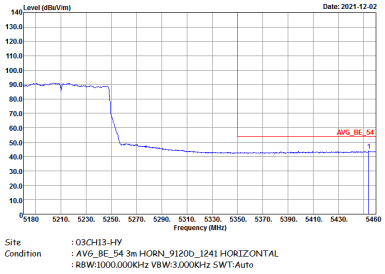
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

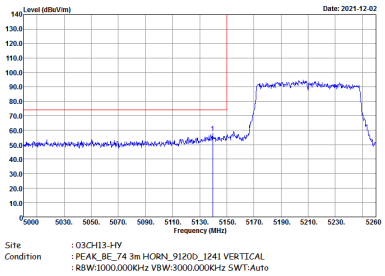
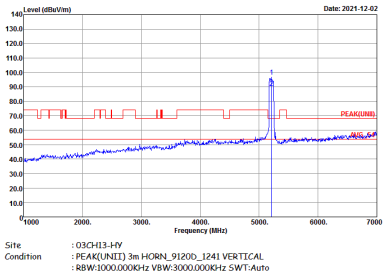
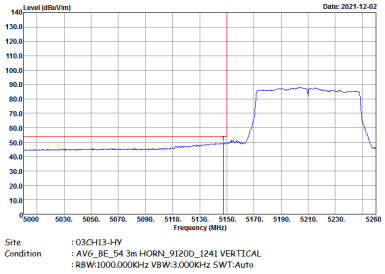
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

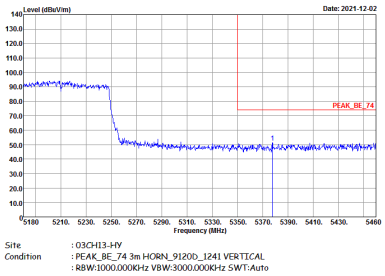
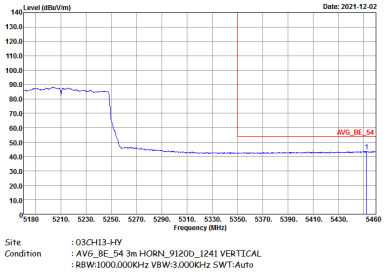
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

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

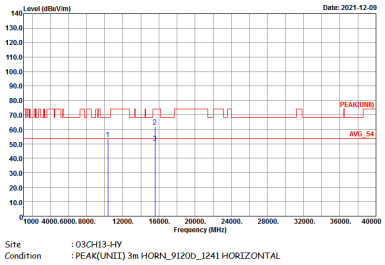
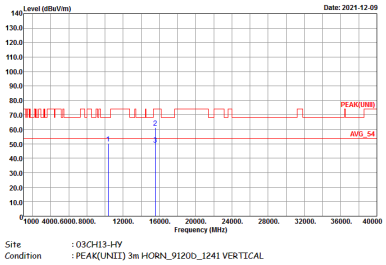
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

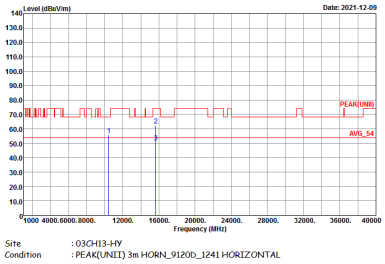
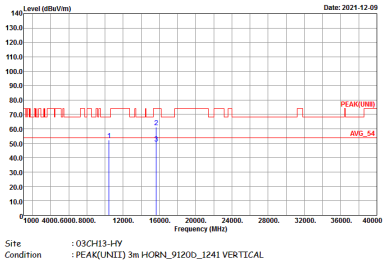
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

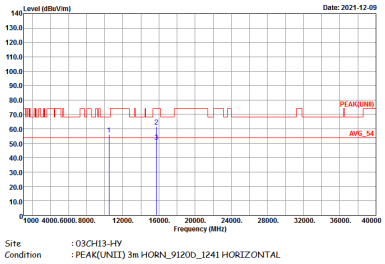
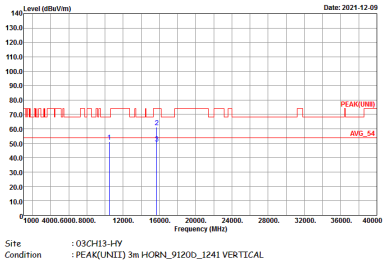
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

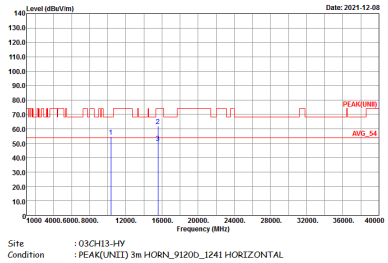
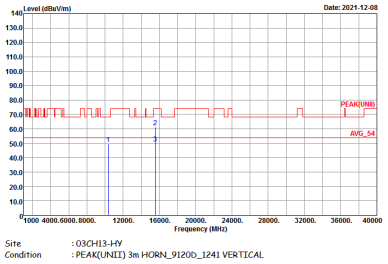
WIFI 802.11a (Harmonic @ 3m)

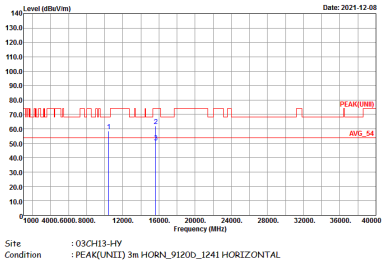
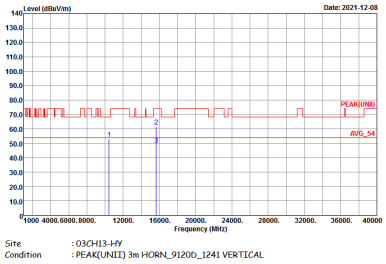
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

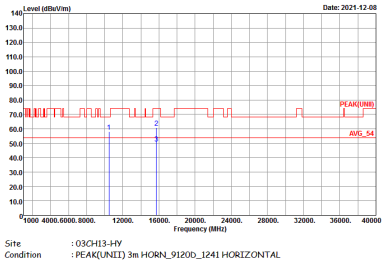
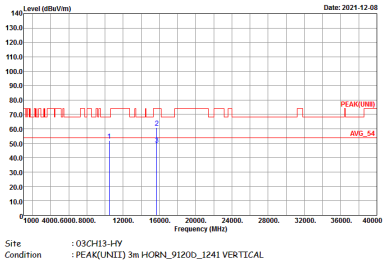
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

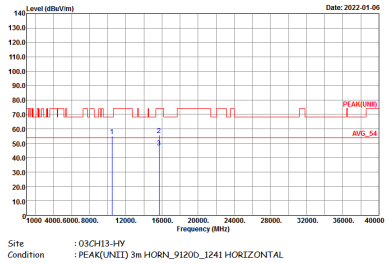
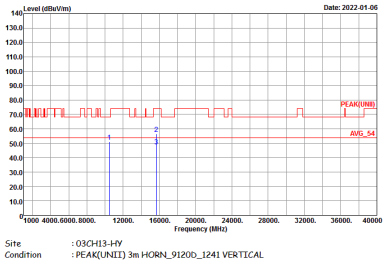
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

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

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

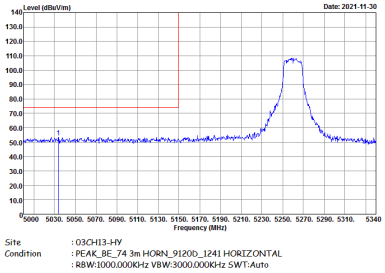
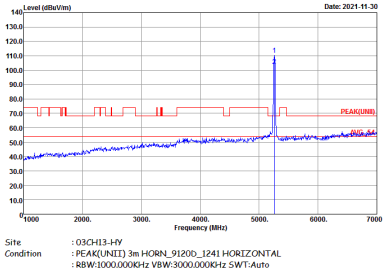
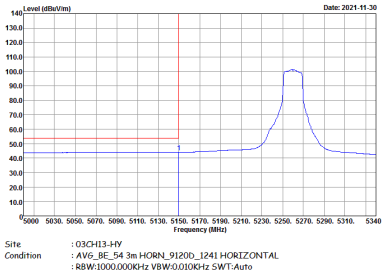
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

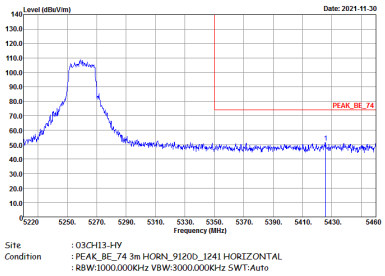
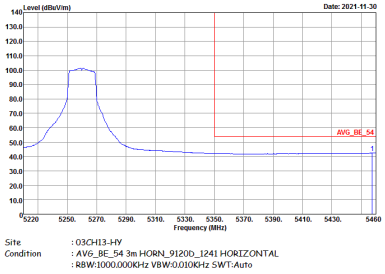
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

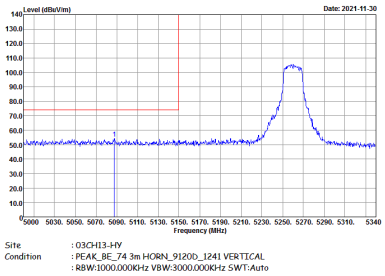
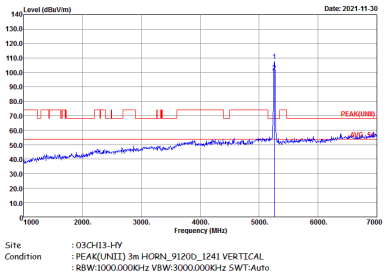
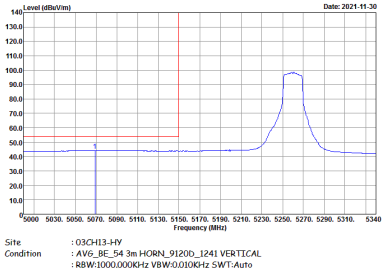
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.		

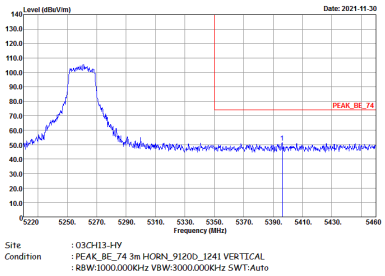
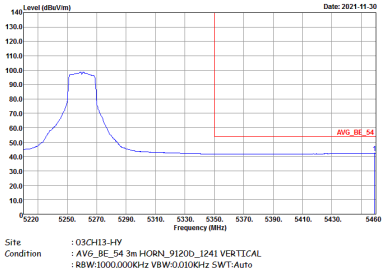
Band 2 - 5250~5350MHz

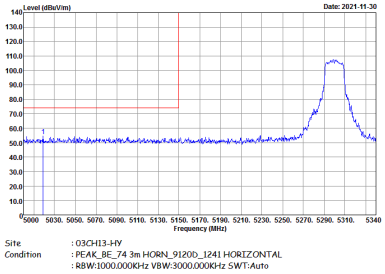
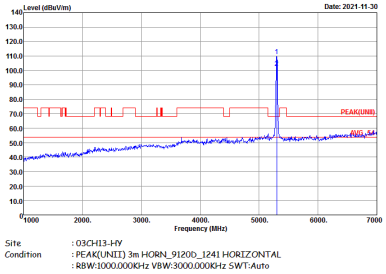
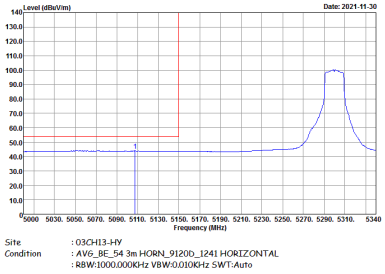
WIFI 802.11n HT20 (Band Edge @ 3m)

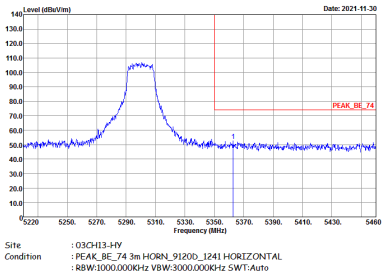
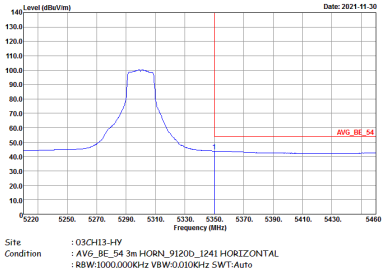
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

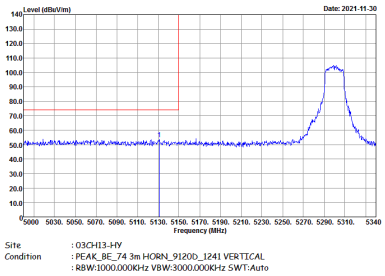
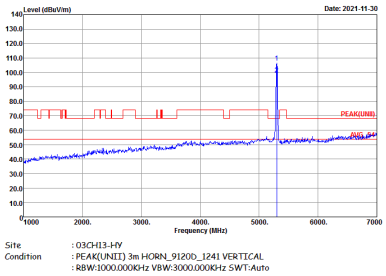
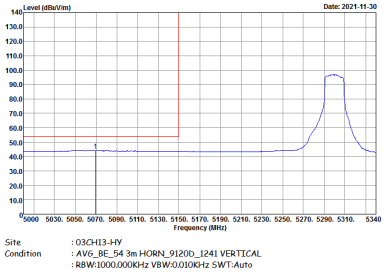
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

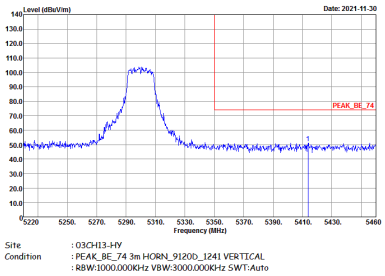
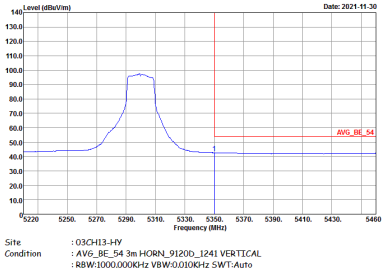
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

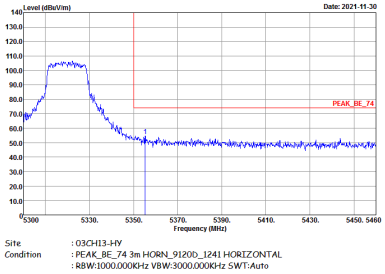
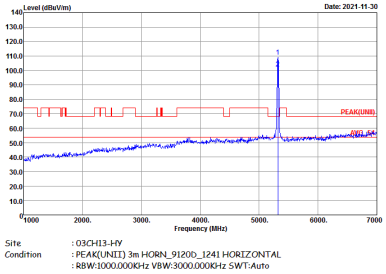
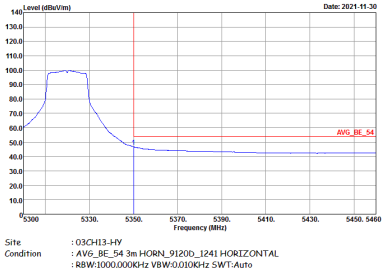
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

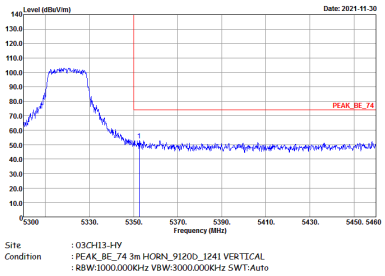
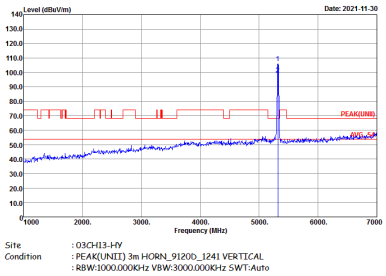
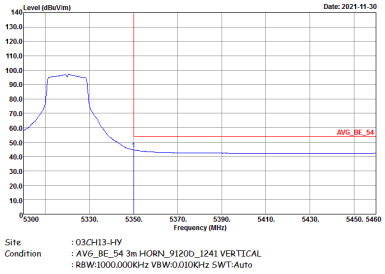
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

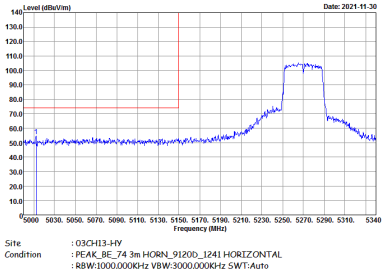
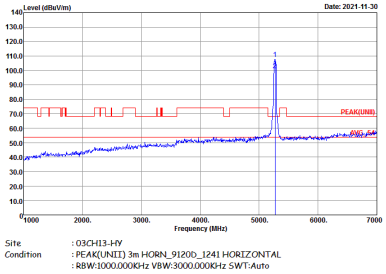
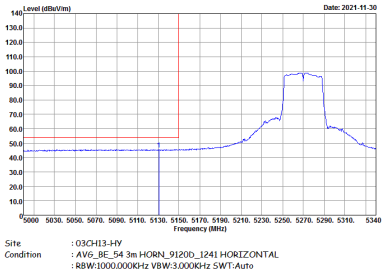
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

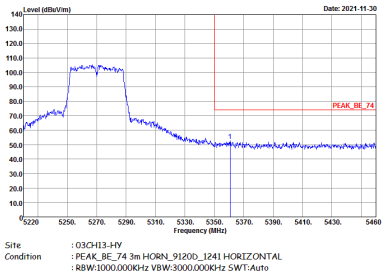
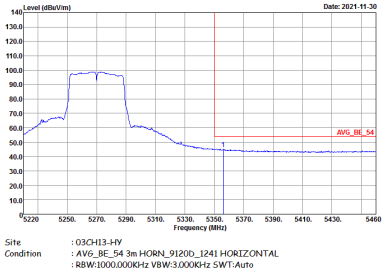
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

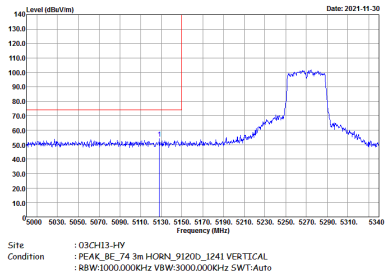
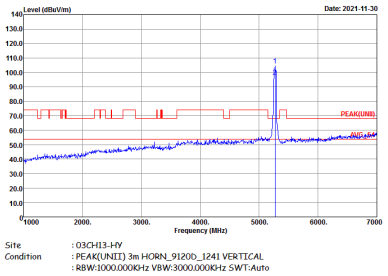
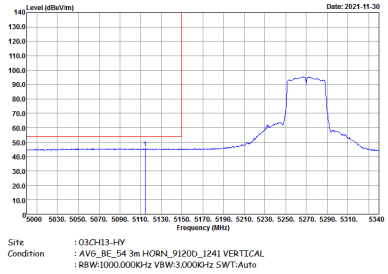
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

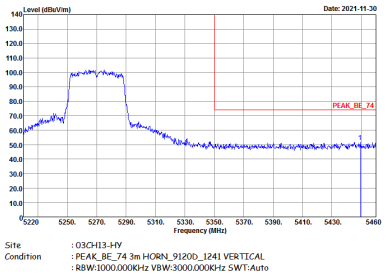
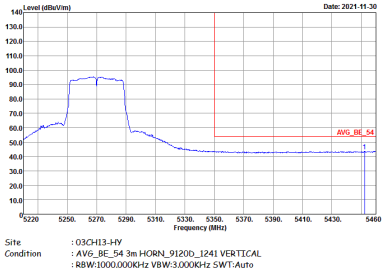
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

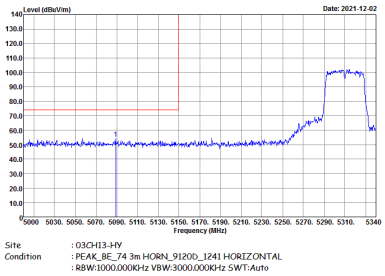
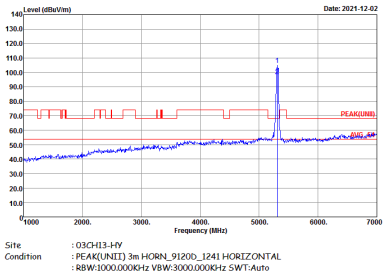
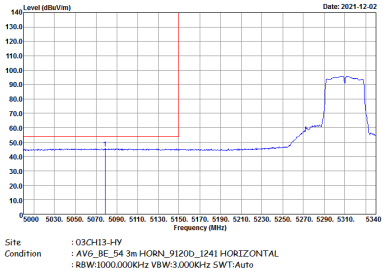
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

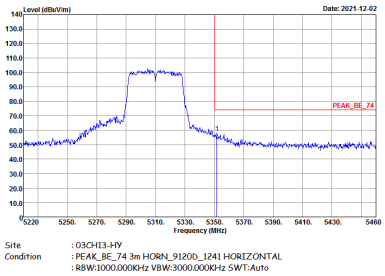
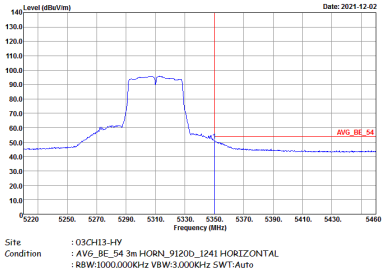
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

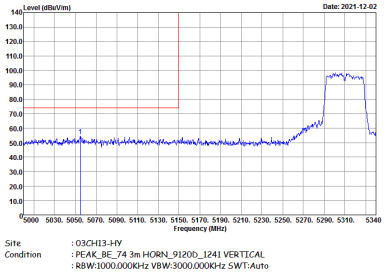
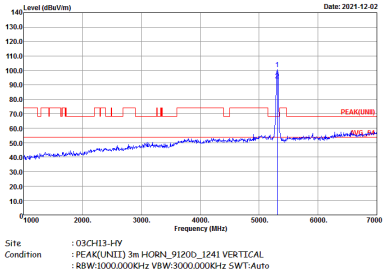
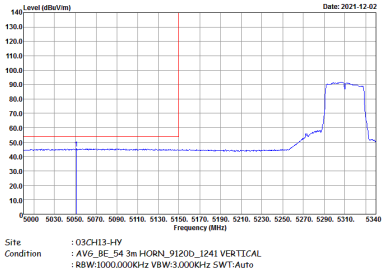
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

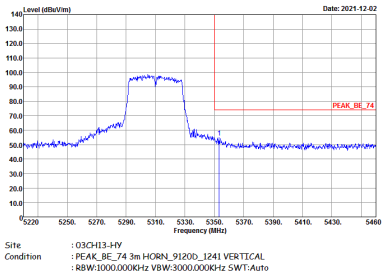
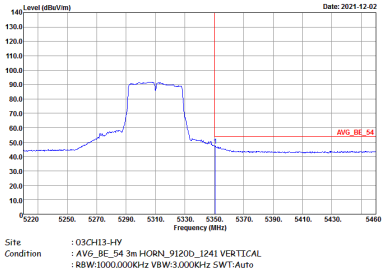
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
1	Vertical	Vertical
Peak		
Avg.		Left blank

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

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

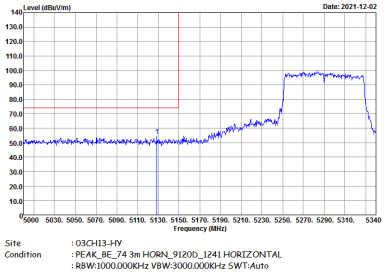
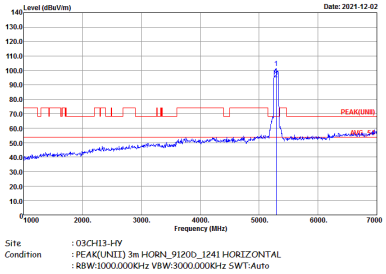
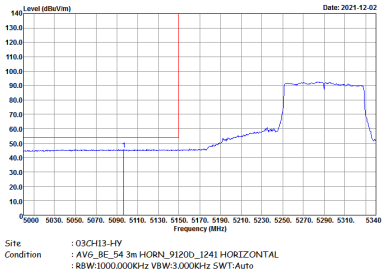
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

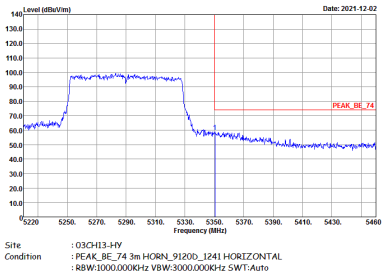
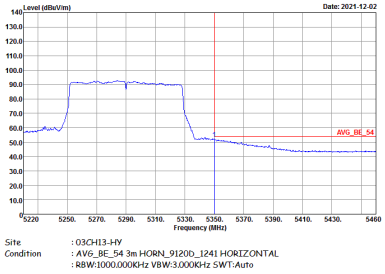
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

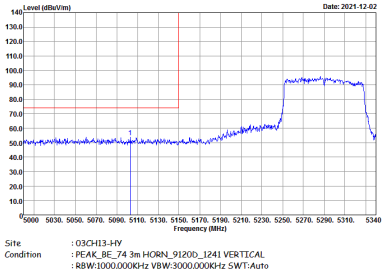
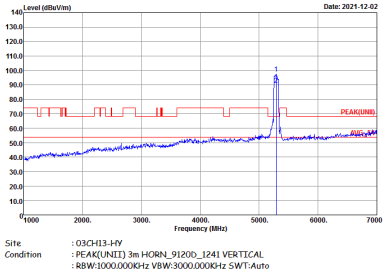
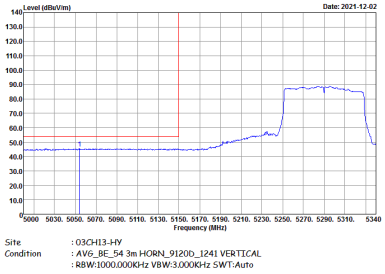
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

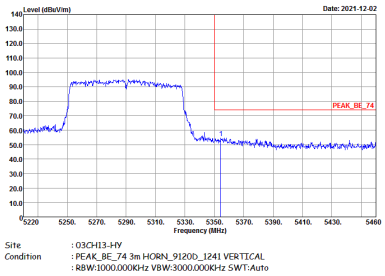
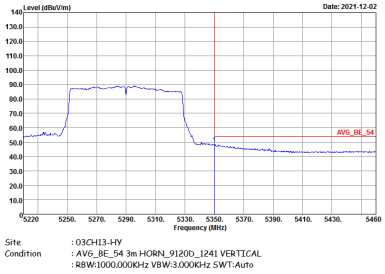
Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

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

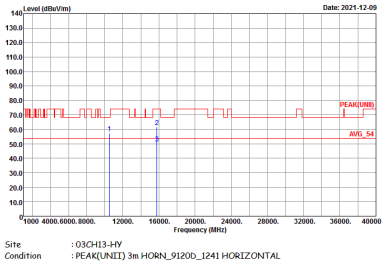
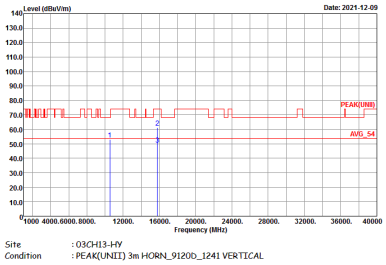
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

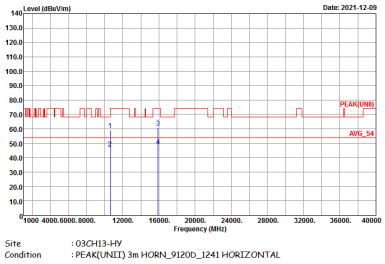
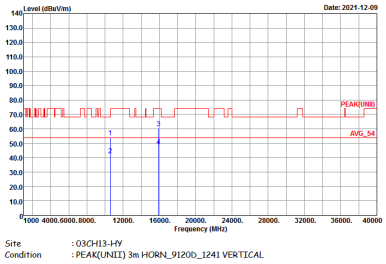
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

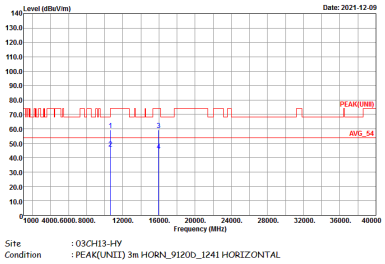
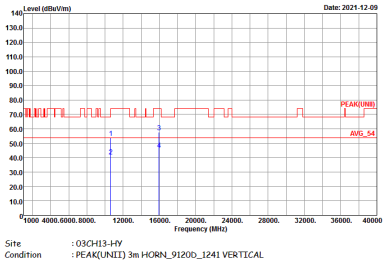
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

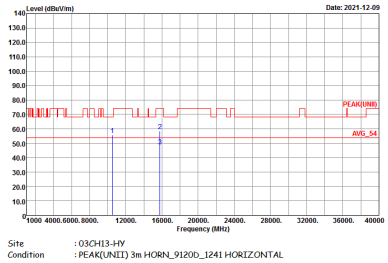
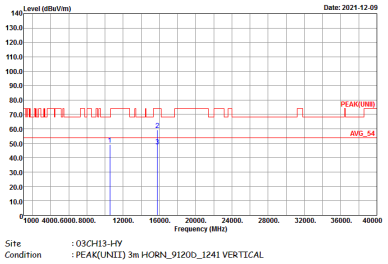
WIFI 802.11a (Harmonic @ 3m)

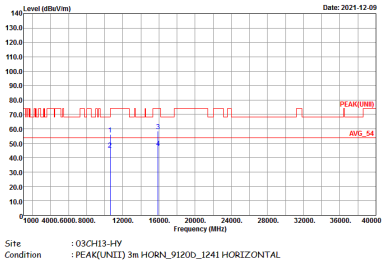
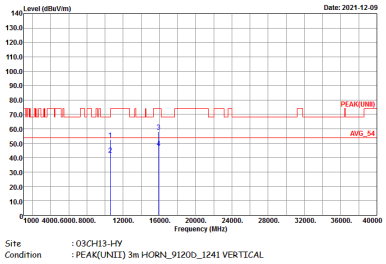
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

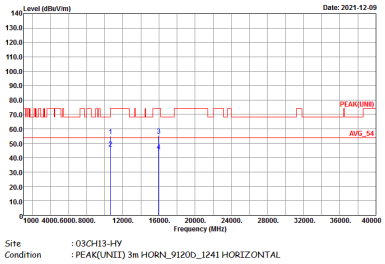
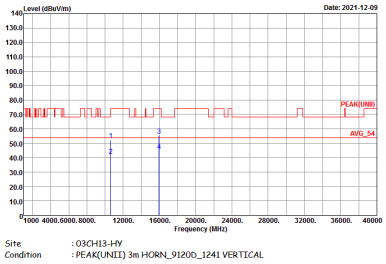
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

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

Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

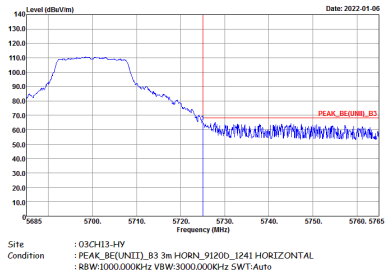
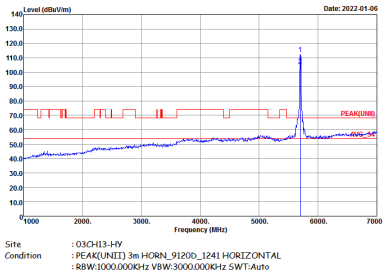
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

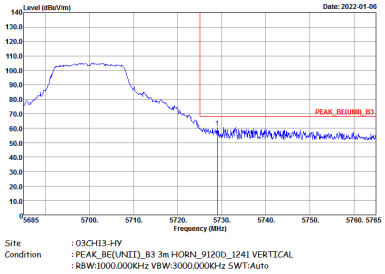
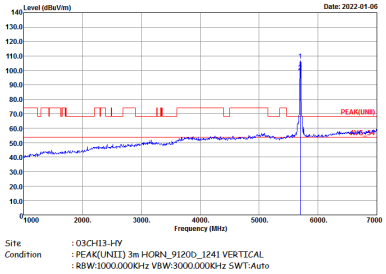
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

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

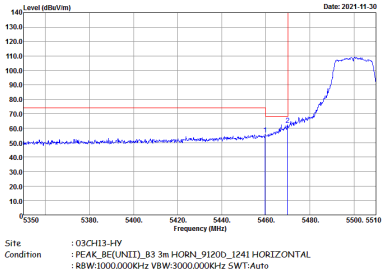
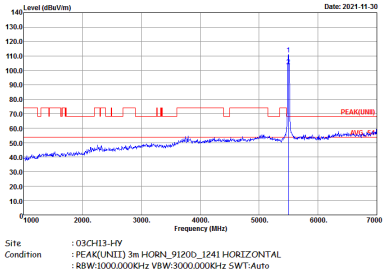
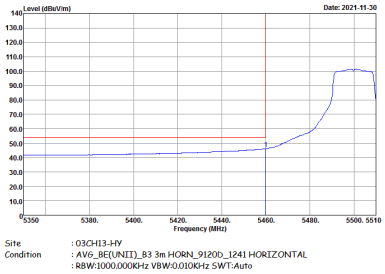
Band 3 - 5470~5725MHz

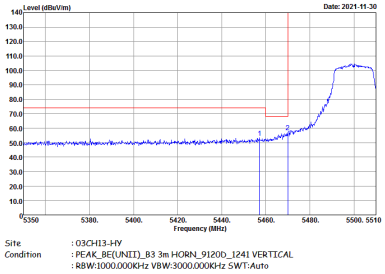
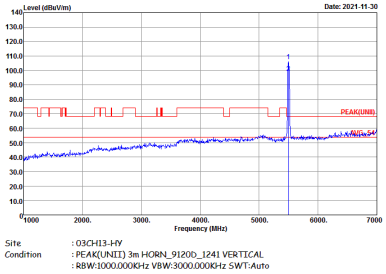
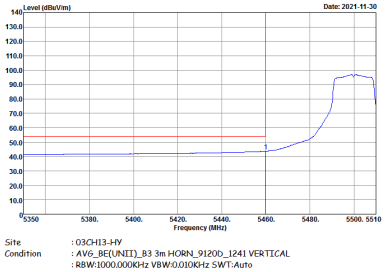
WIFI 802.11a (Band Edge @ 3m)

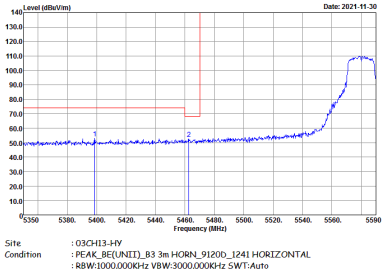
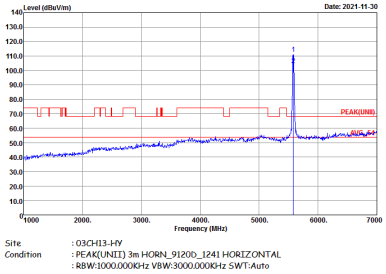
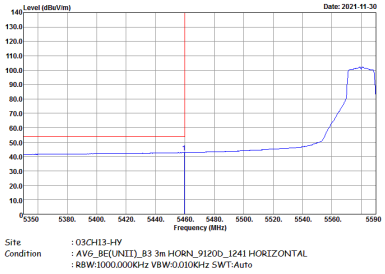
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

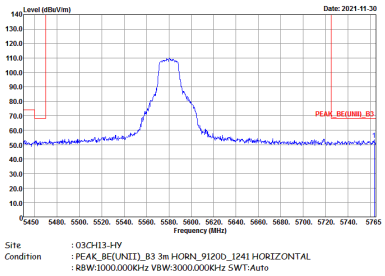
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		

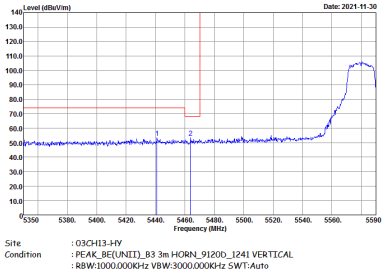
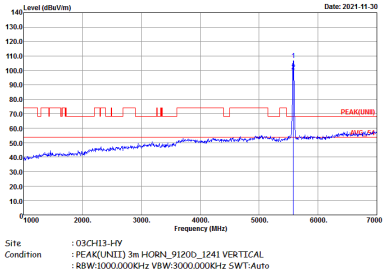
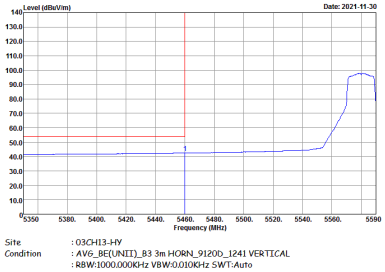
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

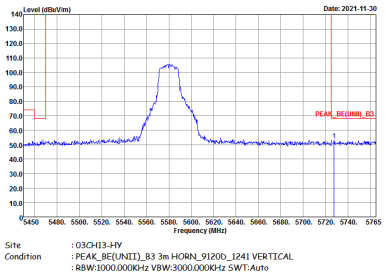
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

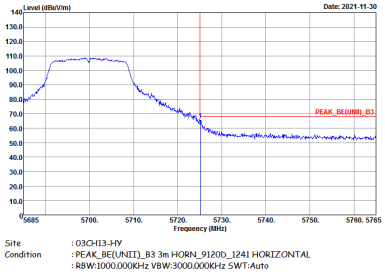
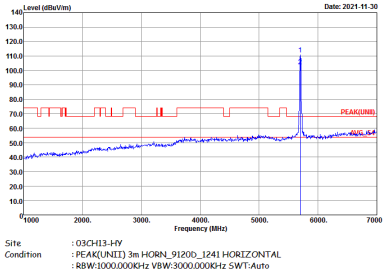
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

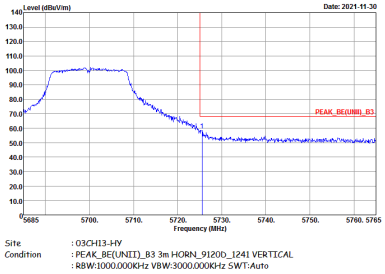
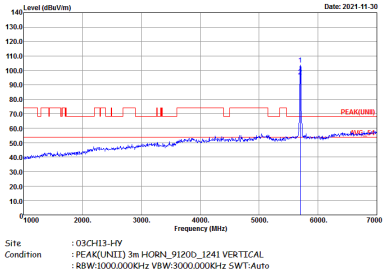
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

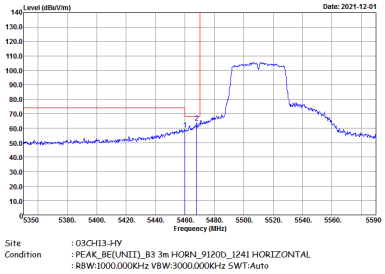
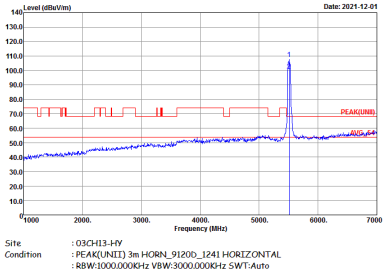
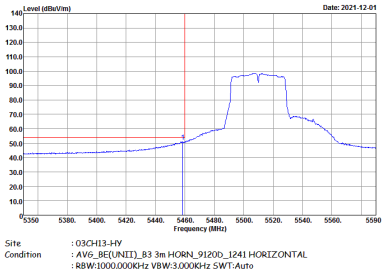
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

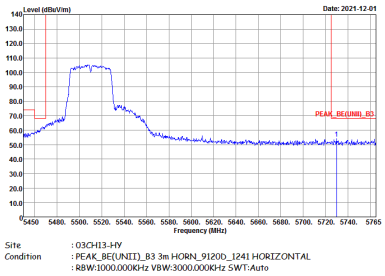
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

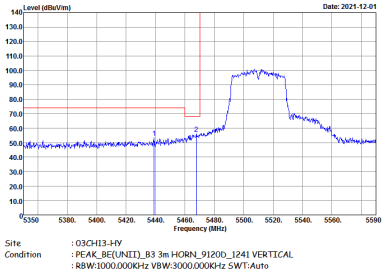
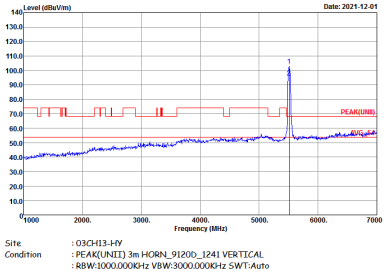
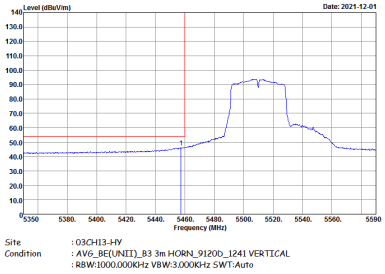
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

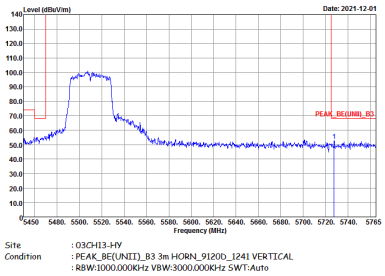
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

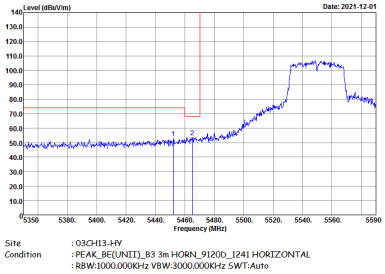
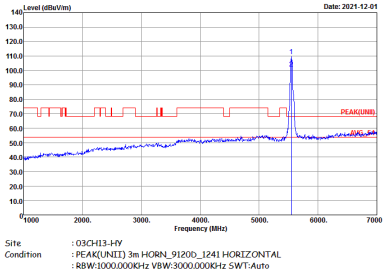
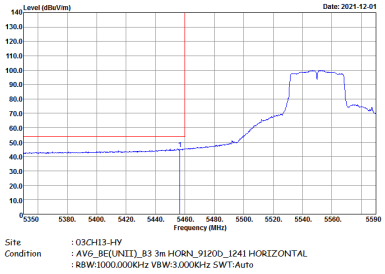
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

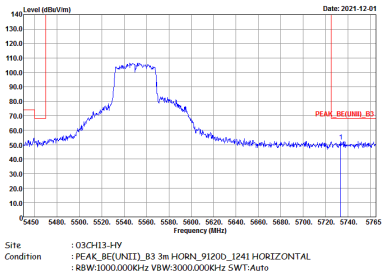
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

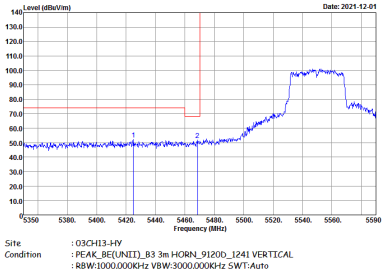
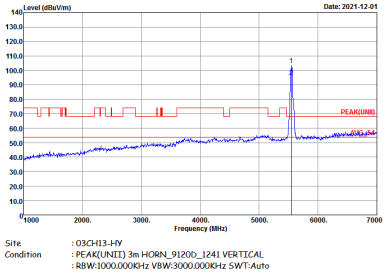
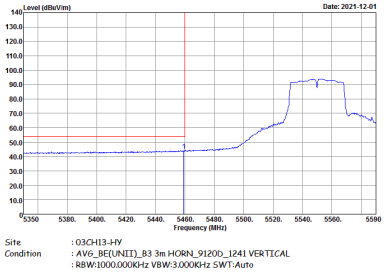
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

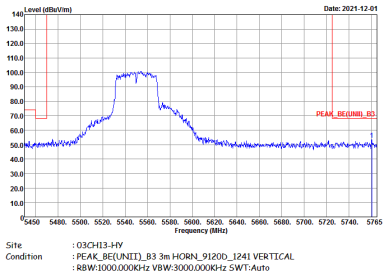
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

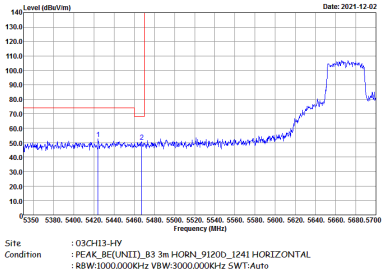
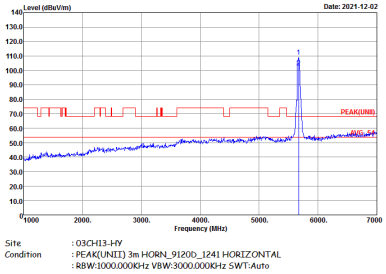
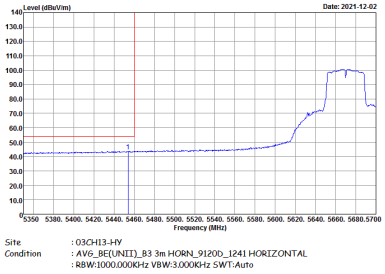
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank

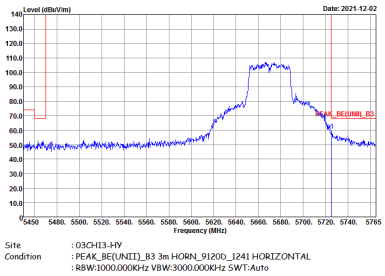
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

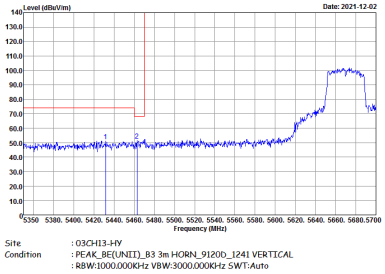
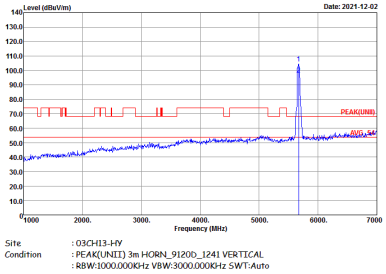
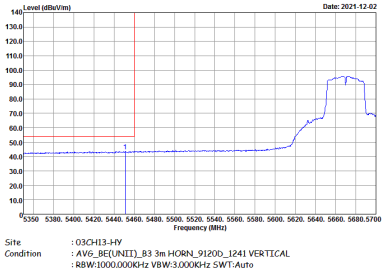
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

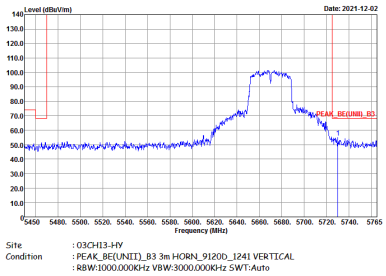
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

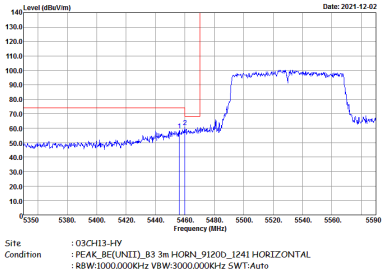
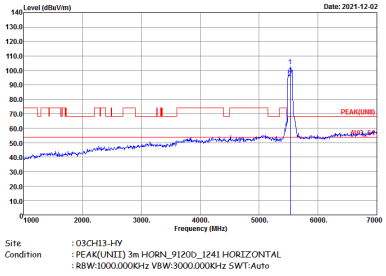
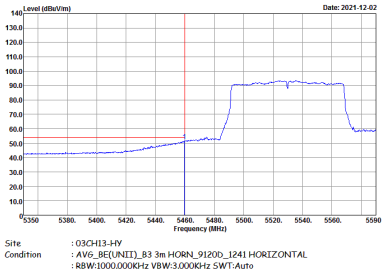
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

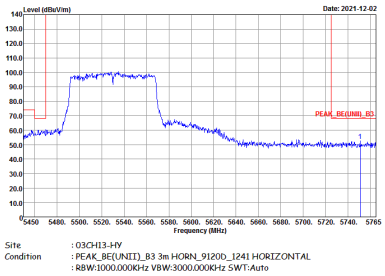
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

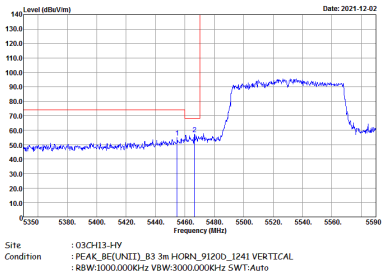
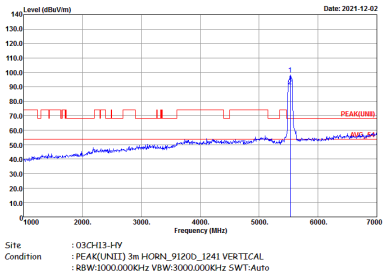
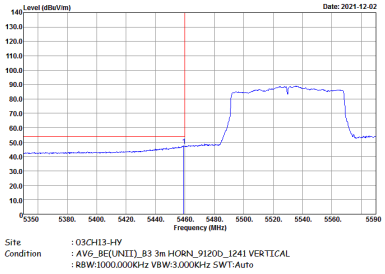
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak		Left blank

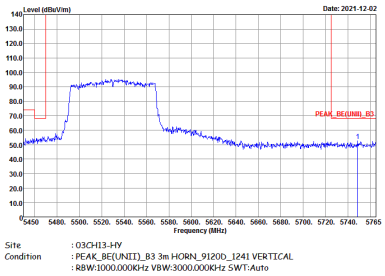
Band 3 5470~5725MHz

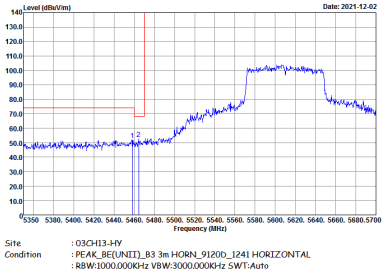
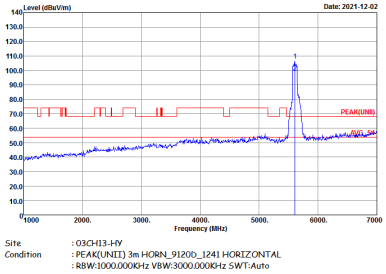
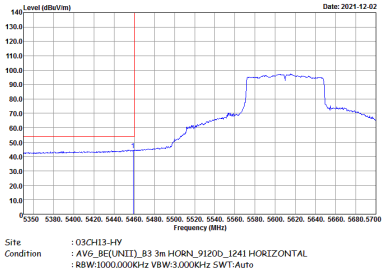
WIFI 802.11ac VHT80 (Band Edge @ 3m)

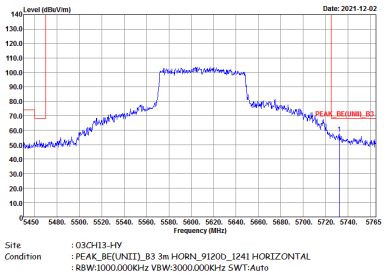
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

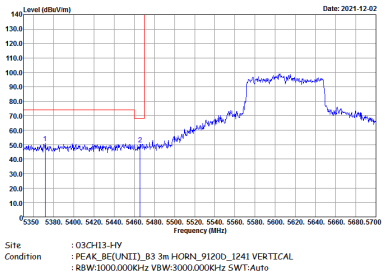
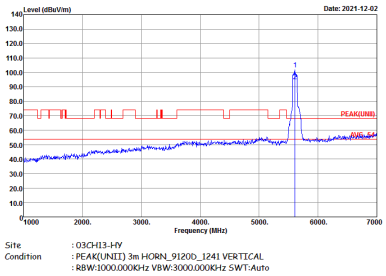
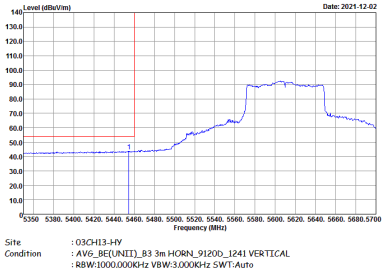
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

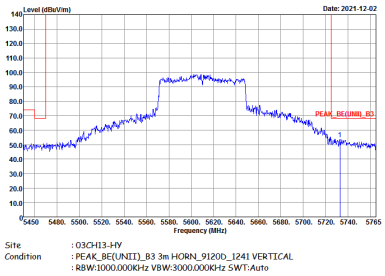
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

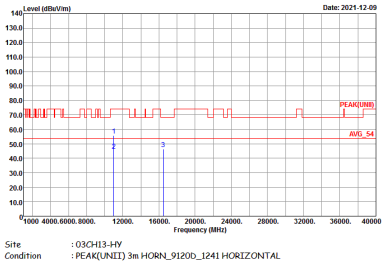
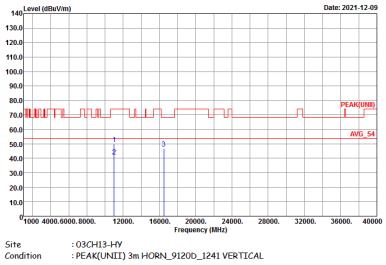
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

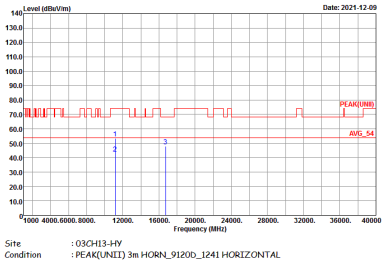
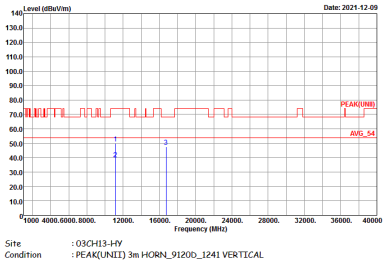
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

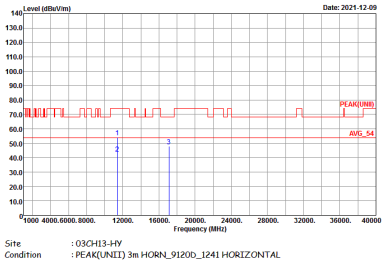
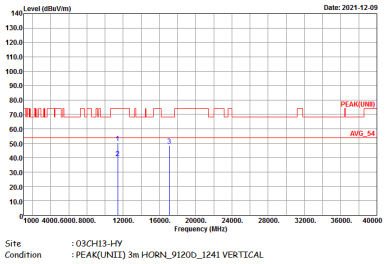
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

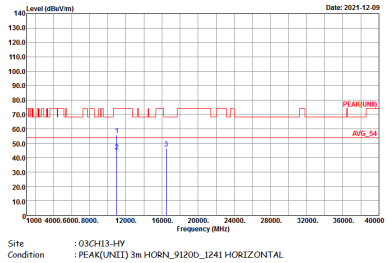
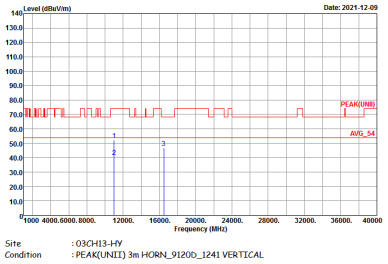
WIFI 802.11a (Harmonic @ 3m)

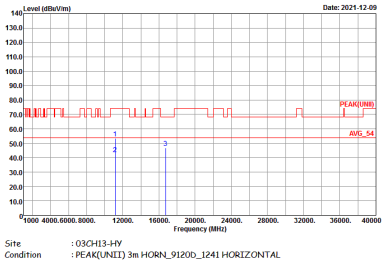
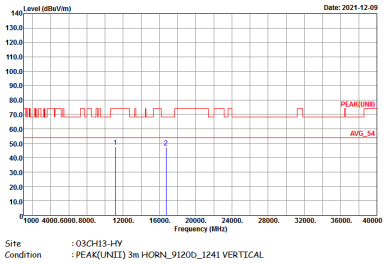
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

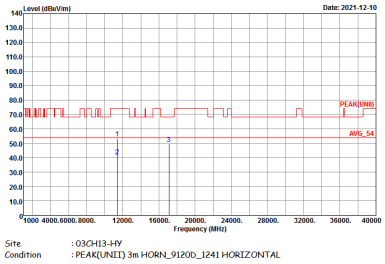
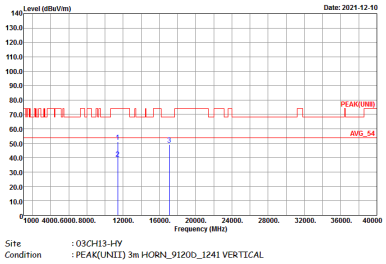
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

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

Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

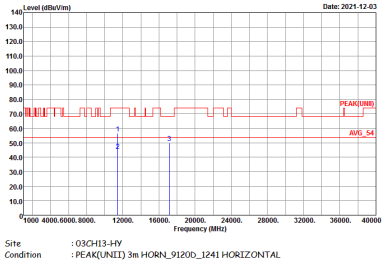
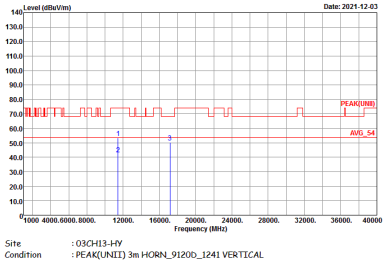
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

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

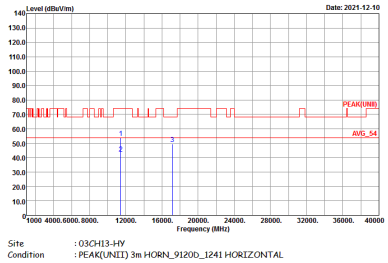
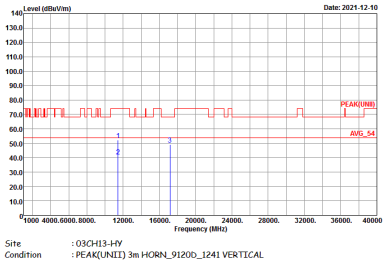
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 - Straddle Channel

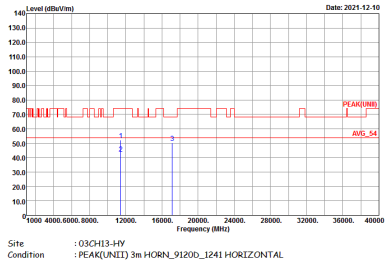
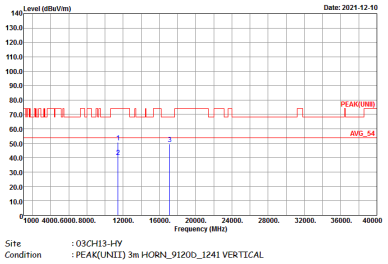
WIFI 802.11a (Harmonic @ 3m)

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

Band 3 – Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

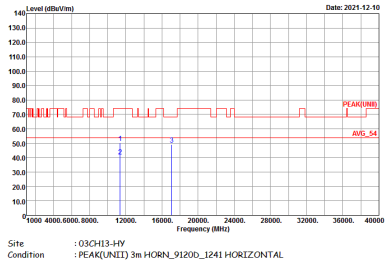
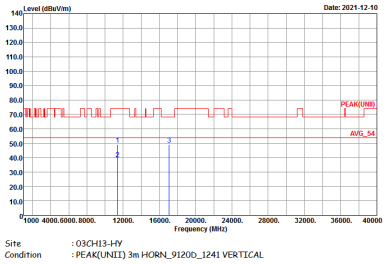
WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 – Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

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

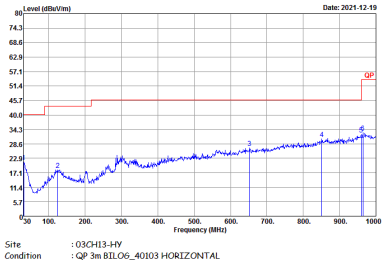
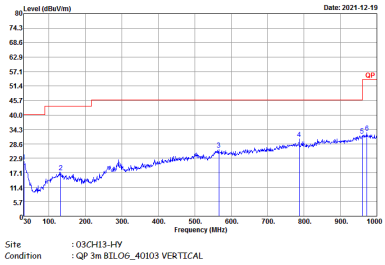
Band 3 – Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

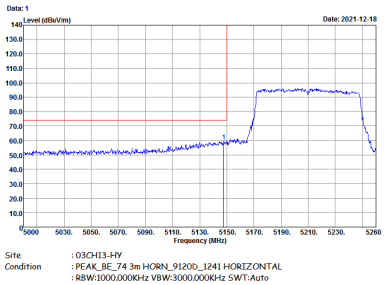
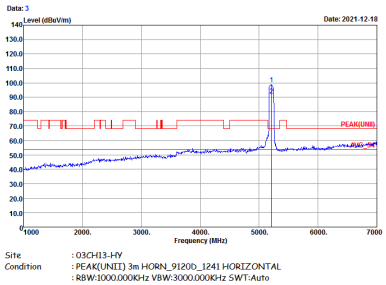
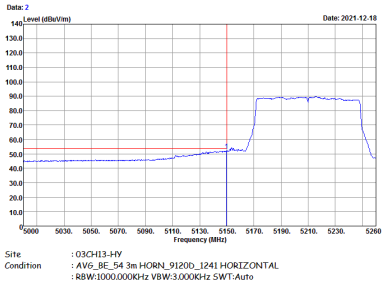
5GHz WIFI 802.11ac VHT80 (LF)

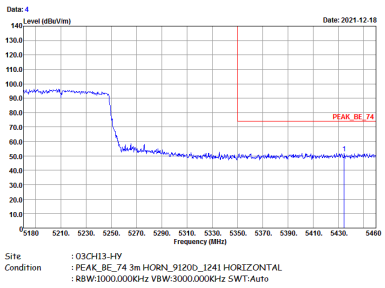
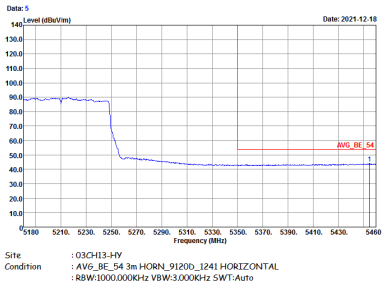
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak		

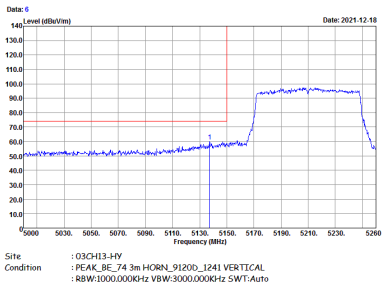
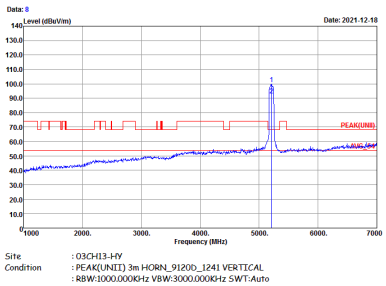
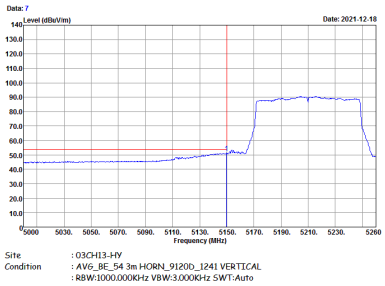
<Sample 2>

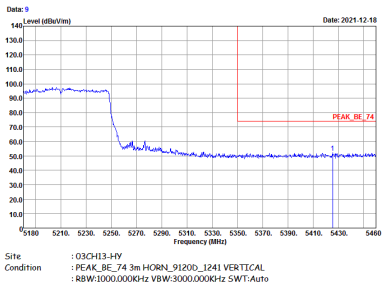
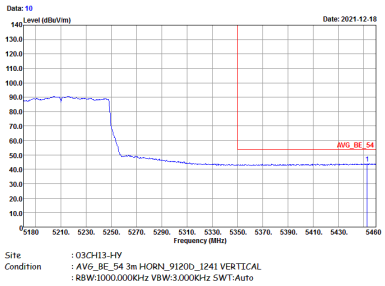
Band 1 - 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

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

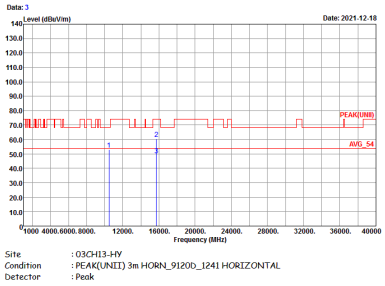
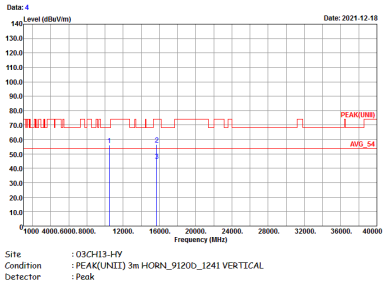
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

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

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

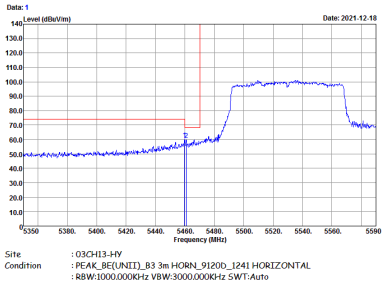
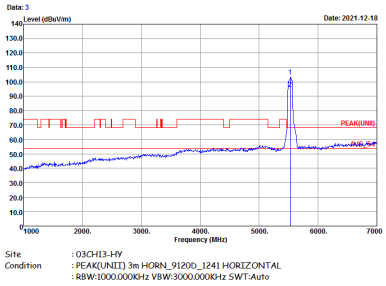
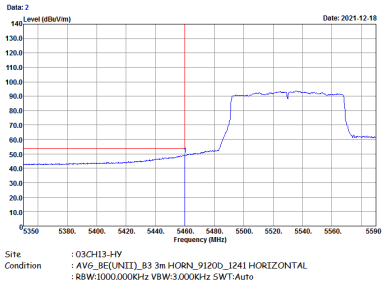
Band 1 - 5150~5250MHz

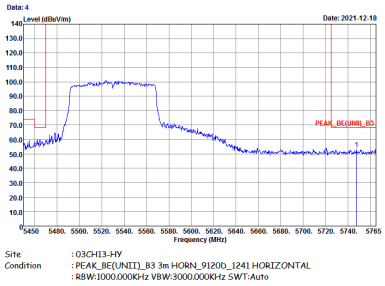
WIFI 802.11a (Harmonic @ 3m)

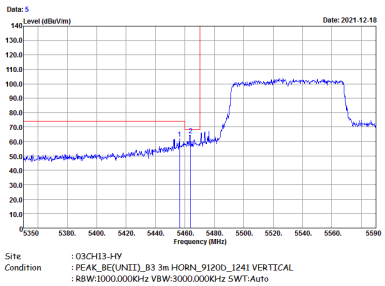
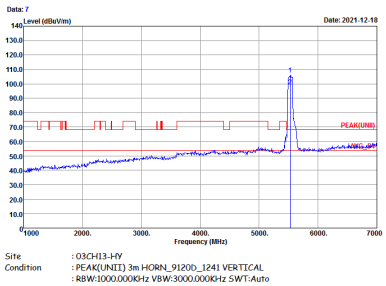
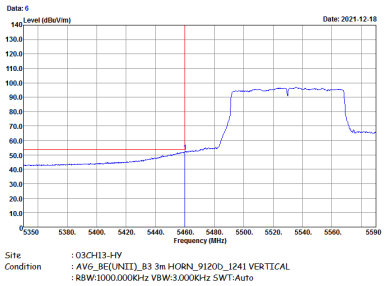
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

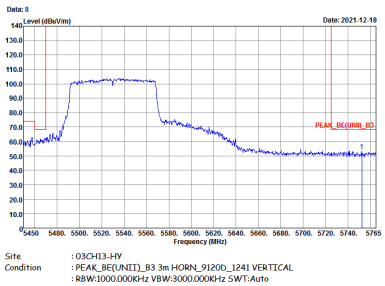
Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

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

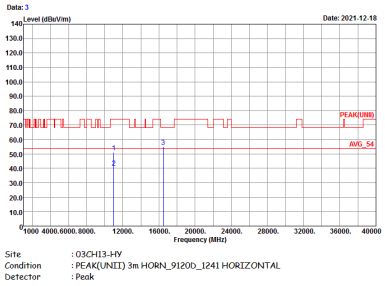
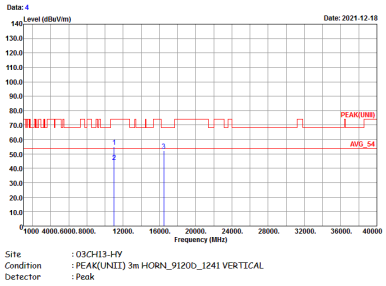
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

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

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

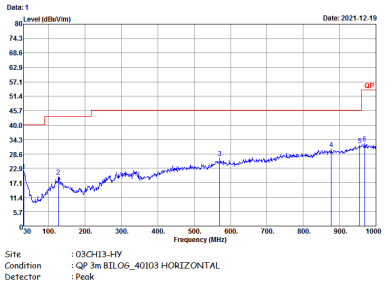
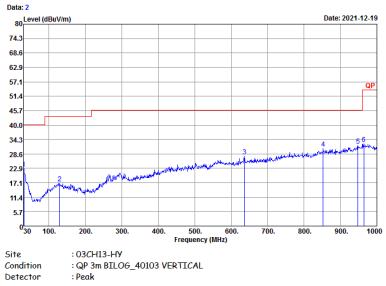
Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

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

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

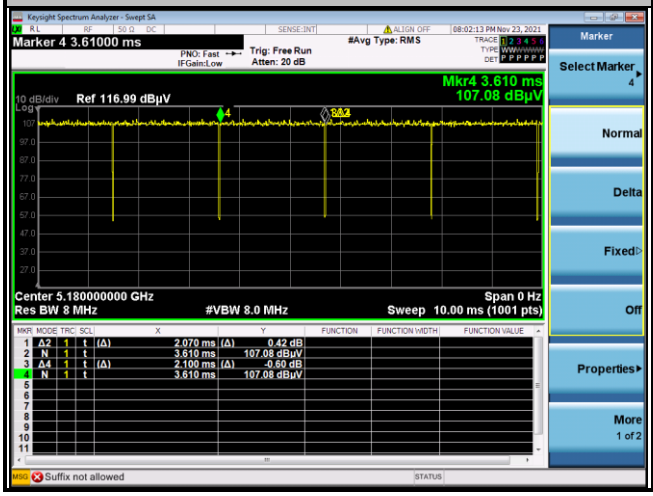
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

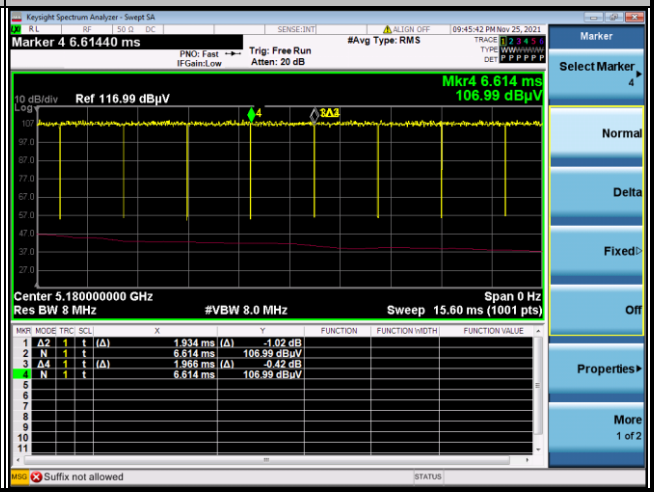
<Sample 1>

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	98.57	-	-	10Hz
5GHz 802.11n HT20	98.37	-	-	10Hz
5GHz 802.11n HT40	96.94	950	1.05	3kHz
5GHz 802.11ac VHT80	92.16	470	2.13	3kHz

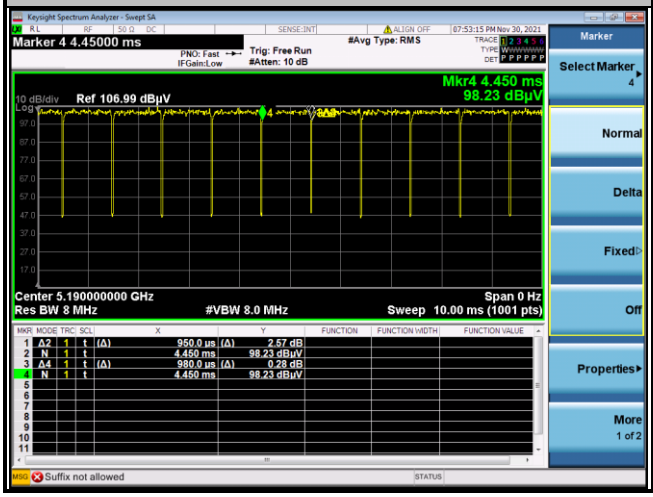
802.11a



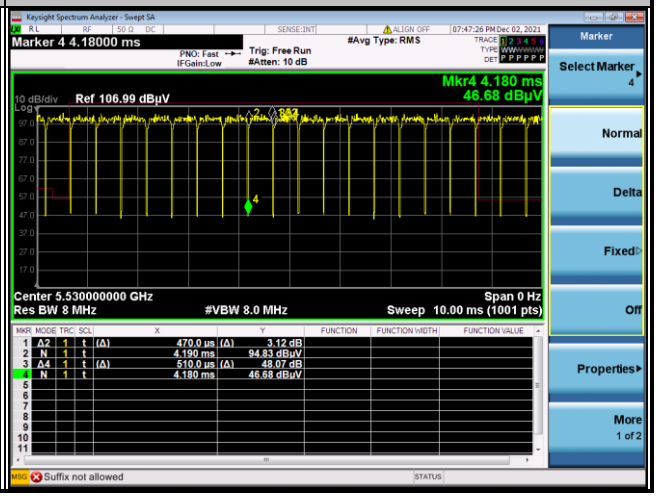
802.11n HT20



802.11n HT40



802.11ac VHT80



<Sample 2>

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	98.19	-	-	10Hz
5GHz 802.11ac VHT80	92.60	463	2.16	3kHz

802.11a	802.11ac VHT80