FCC RADIO TEST REPORT

FCC ID	:	**2AXW2-3476**
Equipment	:	**Digital Media Receiver**
Model Name	:	**C76N8S**
Applicant	:	**Calcium Crater LLC** **DTC QUADRANT** **5445 DTC PARKWAY, PENTHOUSE 4** **GREENWOOD VILLAGE, COLORADO, 80111**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Dec. 09, 2020 and testing was started from Dec. 09, 2020 and completed on Jan. 07, 2021. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

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

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History of this test report

Report No.	Version	Description	Issued Date
FR092923-01D	01	Initial issue of report	Jan. 26, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
3.1	15.403(i)	26dB Bandwidth	Pass
3.1	2.1049	99% Occupied Bandwidth	Reporting only
3.2	15.407(a)	Maximum Conducted Output Power	Pass
3.3	15.407(a)	Power Spectral Density	Pass
3.4	15.407(b)	Unwanted Emissions	Pass
3.5	15.207	AC Conducted Emission	Pass
3.6	15.407(c)	Automatically Discontinue Transmission	Pass
3.7	15.203 15.407(a)	Antenna Requirement	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	C76N8S
FCC ID	2AXW2-3476
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard					
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz				
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>**				
	802.11a	20.20	dBm	0.1047	W
	802.11n HT20	19.60	dBm	0.0912	W
	802.11n HT40	18.70	dBm	0.0741	W
	802.11ac VHT20	19.50	dBm	0.0891	W
	802.11ac VHT40	18.60	dBm	0.0724	W
	802.11ac VHT80	15.00	dBm	0.0316	W
	<5260 MHz ~ 5320 MHz>				
	802.11a	19.50	dBm	0.0891	W
	802.11n HT20	19.30	dBm	0.0851	W
	802.11n HT40	18.70	dBm	0.0741	W
	802.11ac VHT20	19.20	dBm	0.0832	W
	802.11ac VHT40	18.60	dBm	0.0724	W
	802.11ac VHT80	15.00	dBm	0.0316	W
	<5500 MHz ~ 5720 MHz>				
	802.11a	20.40	dBm	0.1096	W
	802.11n HT20	19.80	dBm	0.0955	W
	802.11n HT40	19.30	dBm	0.0851	W
	802.11ac VHT20	19.70	dBm	0.0933	W
	802.11ac VHT40	19.20	dBm	0.0832	W
	802.11ac VHT80	18.60	dBm	0.0724	W

Product Specification subjective to this standard	
99% Occupied Bandwidth	802.11a: 17.48 MHz 802.11n HT20: 18.13 MHz 802.11n HT40: 37.06 MHz 802.11ac VHT80: 77.20 MHz
Antenna Gain	**<5180 MHz ~ 5240 MHz>**: 3.95 dBi
	<5260 MHz ~ 5320 MHz>: 4.21 dBi
	<5500 MHz ~ 5720 MHz>: 4.57 dBi
Antenna Type	PCB IFA Antenna
Type of Modulation	802.11a/n : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)

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

1.3 Modification of EUT

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

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH05-HY, CO05-HY, 03CH07-HY, DFS02-HY

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

FCC designation No.: TW1190

1.5 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

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

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

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

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

Note:

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

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2.2 Test Mode

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

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + MPEG4 + AC Adapter (AP23 G1) (Acbel)
Remark: For Radiated Test Cases, the tests were performed with AC Adapter (AP23 G1) (Acbel)	

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

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

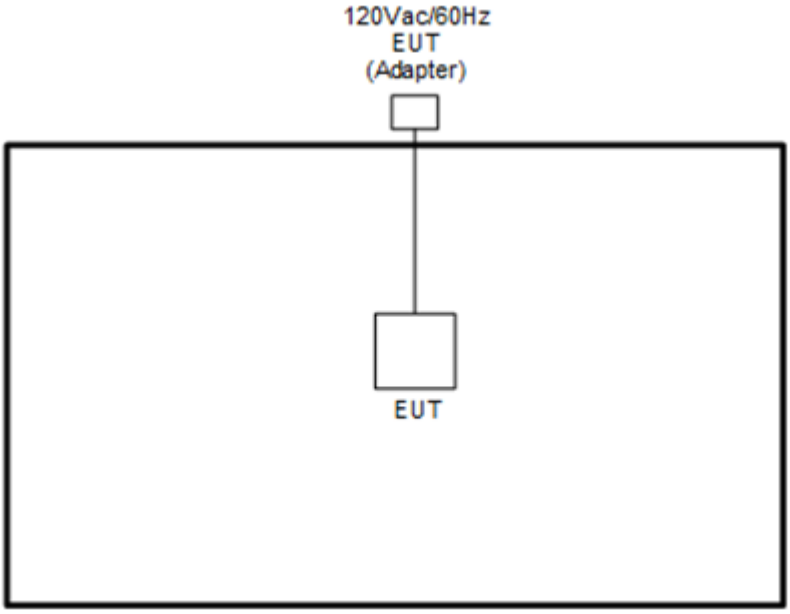
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

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

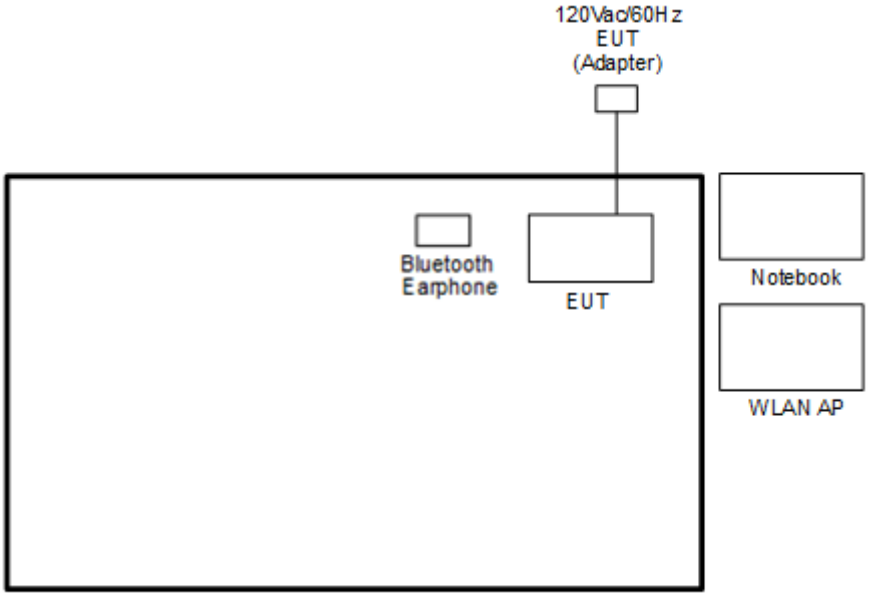
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

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

2.5 EUT Operation Test Setup

The RF test items, utility “Compliance tool V1.0.0.90” 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 10dB attenuator.

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

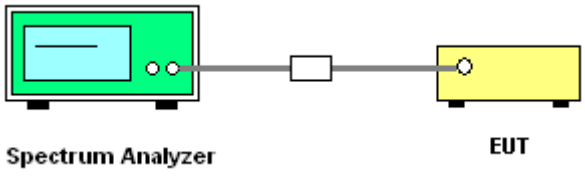
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

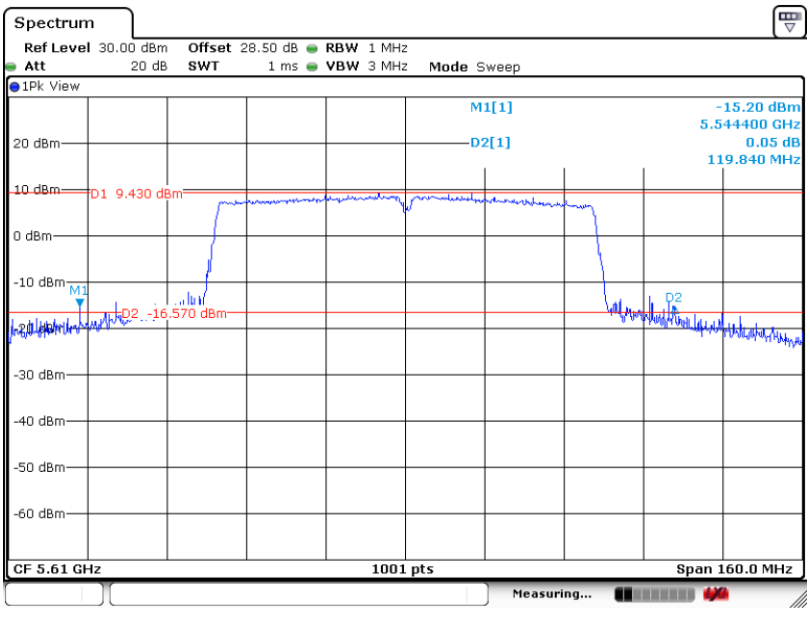
3.1.4 Test Setup



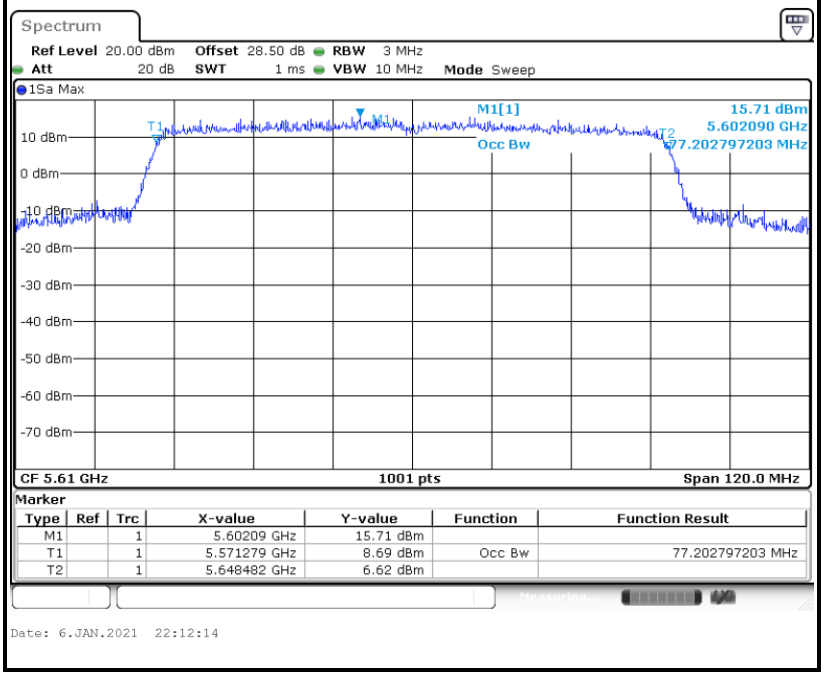
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

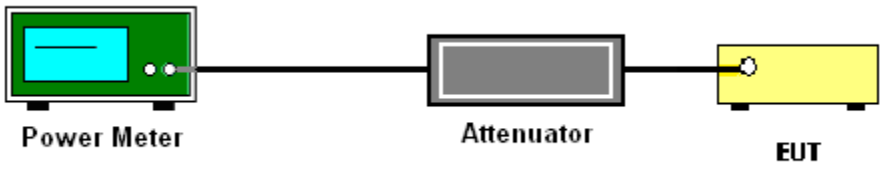
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

 # Method SA-3 #

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

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

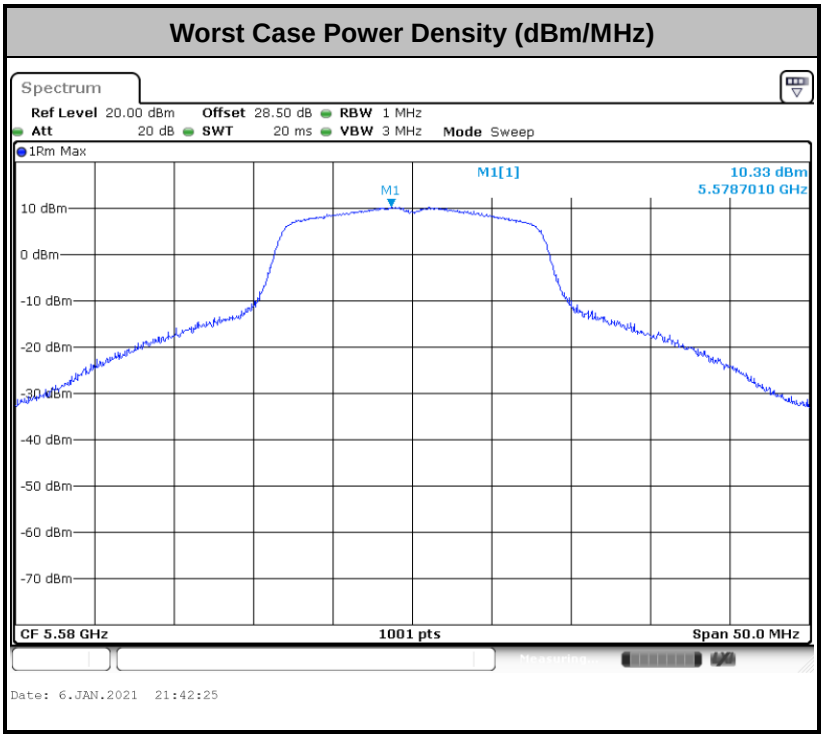
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 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.

<Limit of Unwanted Emissions>

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

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

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

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

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

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

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

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

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

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.
(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.1 Measuring Instruments

See list of measuring equipment of this test report.

3.4.2 Test Procedures

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

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

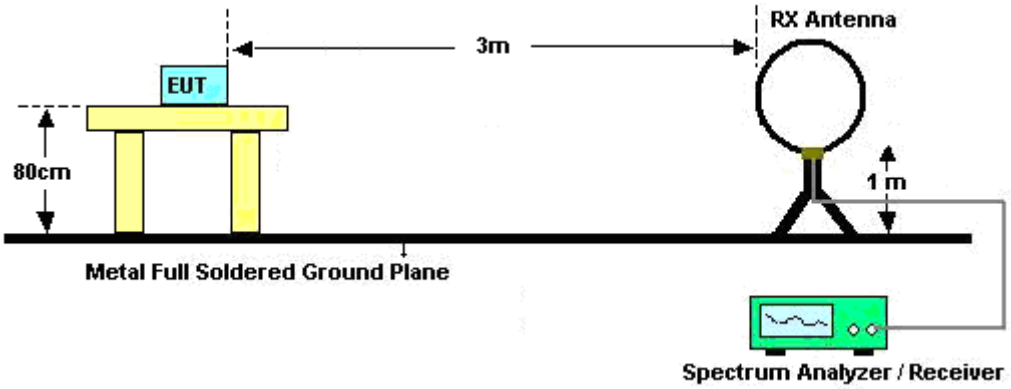
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

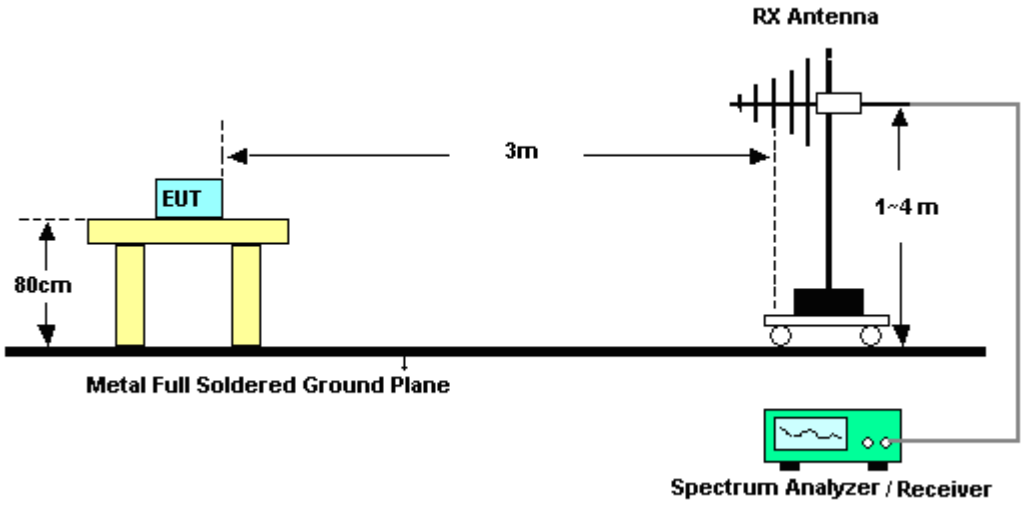
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.3 Test Setup

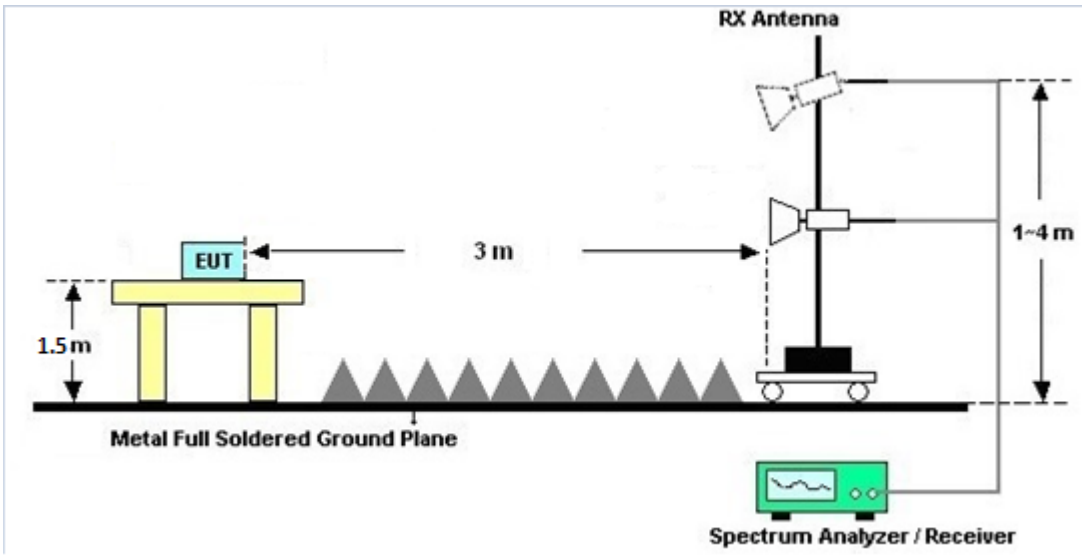
For radiated emissions below 30MHz



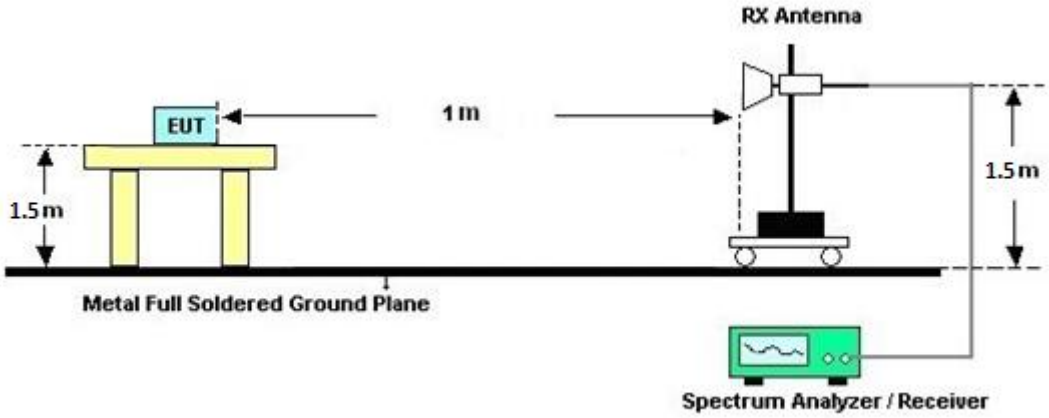
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.4.5 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.6 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

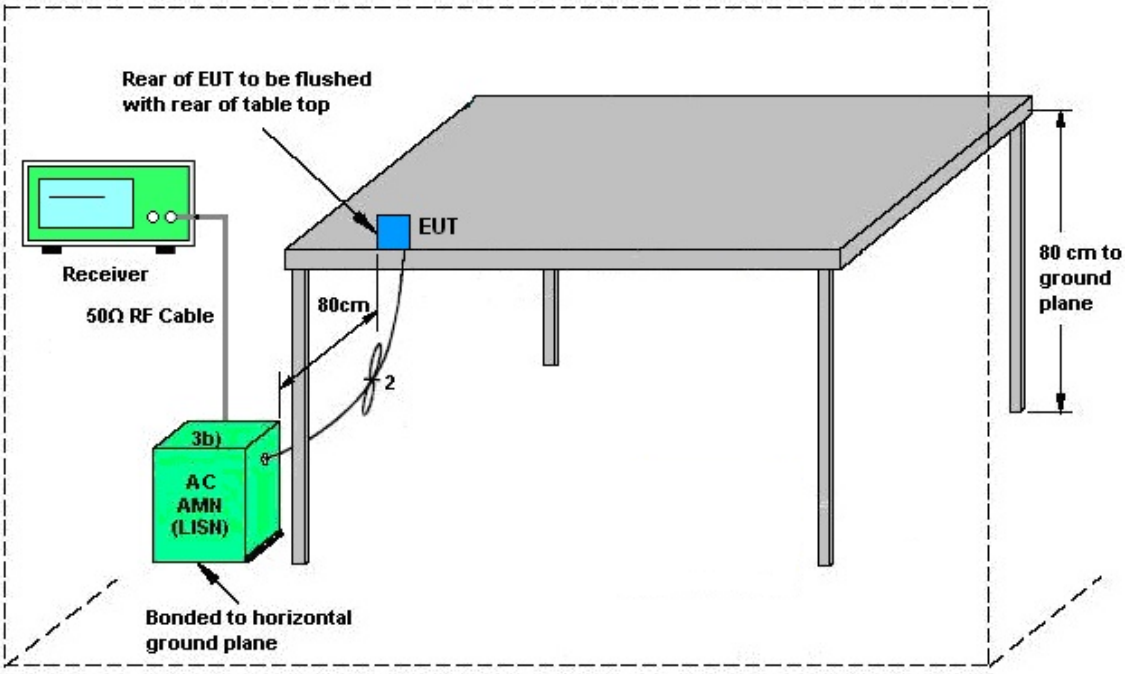
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

A. Information start: make EUT supply information to the access point.

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

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

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

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

5180MHz

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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	9 kHz~30 MHz	Jul. 14, 2020	Dec. 09, 2020~ Jan. 05, 2021	Jul. 13, 2021	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Dec. 09, 2020~ Jan. 05, 2021	Apr. 28, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2020	Dec. 09, 2020~ Jan. 05, 2021	Nov. 30, 2021	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Dec. 02, 2020	Dec. 09, 2020~ Jan. 05, 2021	Dec. 01, 2021	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	May 21, 2020	Dec. 09, 2020~ Jan. 05, 2021	May 20, 2021	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jun. 09, 2020	Dec. 09, 2020~ Jan. 05, 2021	Jun. 08, 2021	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 19, 2020	Dec. 09, 2020~ Jan. 05, 2021	May 18, 2021	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590075	1GHz~18GHz	Apr. 23, 2020	Dec. 09, 2020~ Jan. 05, 2021	Apr. 22, 2021	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 31, 2020	Dec. 09, 2020~ Jan. 05, 2021	Oct. 30, 2021	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 15, 2020	Dec. 09, 2020~ Jan. 05, 2021	Jun. 14, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,801606/2	18GHz~40GHz	Feb. 25, 2020	Dec. 09, 2020~ Jan. 05, 2021	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 25, 2020	Dec. 09, 2020~ Jan. 05, 2021	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Dec. 09, 2020~ Jan. 05, 2021	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 25, 2020	Dec. 09, 2020~ Jan. 05, 2021	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	N/A	Dec. 09, 2020~ Jan. 05, 2021	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Dec. 09, 2020~ Jan. 05, 2021	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Dec. 09, 2020~ Jan. 05, 2021	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	N/A	Dec. 09, 2020~ Jan. 05, 2021	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Dec. 09, 2020~ Jan. 05, 2021	N/A	Radiation (03CH07-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 30, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	Dec. 30, 2020	Sep. 10, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Dec. 30, 2020	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Dec. 30, 2020	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Dec. 30, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Dec. 30, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Dec. 30, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Dec. 28, 2020~ Jan. 07, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 09, 2020	Dec. 28, 2020~ Jan. 07, 2020	Dec. 08, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Dec. 28, 2020~ Jan. 07, 2020	Jul. 21, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Dec. 28, 2020~ Jan. 07, 2020	Mar. 16, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 27, 2020	Dec. 25, 2020	Aug. 26, 2021	DFS (DFS02-HY)

5 Uncertainty of Evaluation

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

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

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.0**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2020/12/28~2021/1/7	Relative Humidity:	51~54	%

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	17.23	-	35.90	-	-		22.36	-		
11a	6Mbps	1	44	5220	17.18	-	35.15	-	-		22.35	-		
11a	6Mbps	1	48	5240	17.08	-	34.85	-	-		22.33	-		
HT20	MCS0	1	36	5180	18.08	-	37.55	-	-		22.57	-		
HT20	MCS0	1	44	5220	17.98	-	37.10	-	-		22.55	-		
HT20	MCS0	1	48	5240	17.93	-	36.25	-	-		22.54	-		
HT40	MCS0	1	38	5190	36.66	-	44.10	-	-		23.01	-		
HT40	MCS0	1	46	5230	36.96	-	71.01	-	-		23.01	-		
VHT80	MCS0	1	42	5210	76.72	-	81.60	-	-		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	20.20	-		24.00	-	3.95	-		Pass
11a	6Mbps	1	44	5220	19.60	-		24.00	-	3.95	-		Pass
11a	6Mbps	1	48	5240	19.60	-		24.00	-	3.95	-		Pass
HT20	MCS0	1	36	5180	19.60	-		24.00	-	3.95	-		Pass
HT20	MCS0	1	44	5220	19.30	-		24.00	-	3.95	-		Pass
HT20	MCS0	1	48	5240	19.20	-		24.00	-	3.95	-		Pass
HT40	MCS0	1	38	5190	16.10	-		24.00	-	3.95	-		Pass
HT40	MCS0	1	46	5230	18.70	-		24.00	-	3.95	-		Pass
VHT20	MCS0	1	36	5180	19.50	-		24.00	-	3.95	-		Pass
VHT20	MCS0	1	44	5220	19.20	-		24.00	-	3.95	-		Pass
VHT20	MCS0	1	48	5240	19.10	-		24.00	-	3.95	-		Pass
VHT40	MCS0	1	38	5190	16.00	-		24.00	-	3.95	-		Pass
VHT40	MCS0	1	46	5230	18.60	-		24.00	-	3.95	-		Pass
VHT80	MCS0	1	42	5210	15.00	-		24.00	-	3.95	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I single antenna													
Mod.	Data Rate	N_{TX}	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	10.29	-		11.00	-	3.95	-		Pass
11a	6Mbps	1	44	5220	9.75	-		11.00	-	3.95	-		Pass
11a	6Mbps	1	48	5240	9.51	-		11.00	-	3.95	-		Pass
HT20	MCS0	1	36	5180	9.47	-		11.00	-	3.95	-		Pass
HT20	MCS0	1	44	5220	8.94	-		11.00	-	3.95	-		Pass
HT20	MCS0	1	48	5240	9.06	-		11.00	-	3.95	-		Pass
HT40	MCS0	1	38	5190	2.88	-		11.00	-	3.95	-		Pass
HT40	MCS0	1	46	5230	5.49	-		11.00	-	3.95	-		Pass
VHT80	MCS0	1	42	5210	-1.78	-		11.00	-	3.95	-		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	17.08	-	34.90	-	23.33	-	29.33	-	23.98	-	
11a	6Mbps	1	60	5300	16.98	-	33.80	-	23.30	-	29.30	-	23.98	-	
11a	6Mbps	1	64	5320	17.03	-	35.00	-	23.31	-	29.31	-	23.98	-	
HT20	MCS0	1	52	5260	17.98	-	34.55	-	23.55	-	29.55	-	23.98	-	
HT20	MCS0	1	60	5300	17.93	-	35.00	-	23.54	-	29.54	-	23.98	-	
HT20	MCS0	1	64	5320	17.93	-	34.10	-	23.54	-	29.54	-	23.98	-	
HT40	MCS0	1	54	5270	36.96	-	71.19	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.76	-	41.67	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	76.84	-	81.76	-	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	19.50	-		23.98	-	4.21	-	26.99	Pass
11a	6Mbps	1	60	5300	19.10	-		23.98	-	4.21	-	26.99	Pass
11a	6Mbps	1	64	5320	19.10	-		23.98	-	4.21	-	26.99	Pass
HT20	MCS0	1	52	5260	19.30	-		23.98	-	4.21	-	26.99	Pass
HT20	MCS0	1	60	5300	18.60	-		23.98	-	4.21	-	26.99	Pass
HT20	MCS0	1	64	5320	18.60	-		23.98	-	4.21	-	26.99	Pass
HT40	MCS0	1	54	5270	18.70	-		23.98	-	4.21	-	26.99	Pass
HT40	MCS0	1	62	5310	15.40	-		23.98	-	4.21	-	26.99	Pass
VHT20	MCS0	1	52	5260	19.20	-		23.98	-	4.21	-	26.99	Pass
VHT20	MCS0	1	60	5300	18.50	-		23.98	-	4.21	-	26.99	Pass
VHT20	MCS0	1	64	5320	18.50	-		23.98	-	4.21	-	26.99	Pass
VHT40	MCS0	1	54	5270	18.60	-		23.98	-	4.21	-	26.99	Pass
VHT40	MCS0	1	62	5310	15.30	-		23.98	-	4.21	-	26.99	Pass
VHT80	MCS0	1	58	5290	15.00	-		23.98	-	4.21	-	26.99	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	9.56	-		11.00	-	4.21	-		Pass
11a	6Mbps	1	60	5300	9.16	-		11.00	-	4.21	-		Pass
11a	6Mbps	1	64	5320	9.24	-		11.00	-	4.21	-		Pass
HT20	MCS0	1	52	5260	8.78	-		11.00	-	4.21	-		Pass
HT20	MCS0	1	60	5300	8.56	-		11.00	-	4.21	-		Pass
HT20	MCS0	1	64	5320	8.39	-		11.00	-	4.21	-		Pass
HT40	MCS0	1	54	5270	5.56	-		11.00	-	4.21	-		Pass
HT40	MCS0	1	62	5310	2.26	-		11.00	-	4.21	-		Pass
VHT80	MCS0	1	58	5290	-1.80	-		11.00	-	4.21	-		Pass

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	17.18	-	36.65	-	23.35	-	29.35	-	23.98	-	----	----
11a	6Mbps	1	116	5580	17.48	-	37.30	-	23.43	-	29.43	-	23.98	-	----	----
11a	6Mbps	1	140	5700	17.08	-	35.80	-	23.33	-	29.33	-	23.98	-	----	----
HT20	MCS0	1	100	5500	18.03	-	36.55	-	23.56	-	29.56	-	23.98	-	----	----
HT20	MCS0	1	116	5580	18.13	-	36.65	-	23.58	-	29.58	-	23.98	-	----	----
HT20	MCS0	1	140	5700	17.98	-	34.25	-	23.55	-	29.55	-	23.98	-	----	----
HT40	MCS0	1	102	5510	36.66	-	46.08	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	37.06	-	63.81	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	37.06	-	71.46	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	106	5530	76.72	-	81.92	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	77.20	-	119.84	-	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	13.54	-	22.15	-	22.32	-	28.32	-	23.98	-	3.15	-
HT20	MCS0	1	144	5720	14.04	-	21.45	-	22.47	-	28.47	-	23.98	-	3.75	-
HT40	MCS0	1	142	5710	33.48	-	48.66	-	23.98	-	30.00	-	23.98	-	3.18	-
VHT80	MCS0	1	138	5690	73.72	-	98.04	-	23.98	-	30.00	-	23.98	-	3.24	-

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	20.20	-		23.98	-	4.57	-	26.99	Pass
11a	6Mbps	1	116	5580	20.40	-		23.98	-	4.57	-	26.99	Pass
11a	6Mbps	1	140	5700	19.10	-		23.98	-	4.57	-	26.99	Pass
HT20	MCS0	1	100	5500	19.60	-		23.98	-	4.57	-	26.99	Pass
HT20	MCS0	1	116	5580	19.80	-		23.98	-	4.57	-	26.99	Pass
HT20	MCS0	1	140	5700	18.70	-		23.98	-	4.57	-	26.99	Pass
HT40	MCS0	1	102	5510	17.10	-		23.98	-	4.57	-	26.99	Pass
HT40	MCS0	1	110	5550	19.30	-		23.98	-	4.57	-	26.99	Pass
HT40	MCS0	1	134	5670	18.70	-		23.98	-	4.57	-	26.99	Pass
VHT20	MCS0	1	100	5500	19.50	-		23.98	-	4.57	-	26.99	Pass
VHT20	MCS0	1	116	5580	19.70	-		23.98	-	4.57	-	26.99	Pass
VHT20	MCS0	1	140	5700	18.60	-		23.98	-	4.57	-	26.99	Pass
VHT40	MCS0	1	102	5510	17.00	-		23.98	-	4.57	-	26.99	Pass
VHT40	MCS0	1	110	5550	19.20	-		23.98	-	4.57	-	26.99	Pass
VHT40	MCS0	1	134	5670	18.60	-		23.98	-	4.57	-	26.99	Pass
VHT80	MCS0	1	106	5530	14.30	-		23.98	-	4.57	-	26.99	Pass
VHT80	MCS0	1	122	5610	18.60	-		23.98	-	4.57	-	26.99	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	19.00	-		23.98	-	4.57	-	26.99	Pass
HT20	MCS0	1	144	5720	18.50	-		23.98	-	4.57	-	26.99	Pass
HT40	MCS0	1	142	5710	18.10	-		23.98	-	4.57	-	26.99	Pass
VHT20	MCS0	1	144	5720	18.40	-		23.98	-	4.57	-	26.99	Pass
VHT40	MCS0	1	142	5710	18.00	-		23.98	-	4.57	-	26.99	Pass
VHT80	MCS0	1	138	5690	18.10	-		23.98	-	4.57	-	26.99	Pass

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	10.00	-		11.00	-	4.57	-		Pass
11a	6Mbps	1	116	5580	10.33	-		11.00	-	4.57	-		Pass
11a	6Mbps	1	140	5700	9.23	-		11.00	-	4.57	-		Pass
HT20	MCS0	1	100	5500	9.54	-		11.00	-	4.57	-		Pass
HT20	MCS0	1	116	5580	9.51	-		11.00	-	4.57	-		Pass
HT20	MCS0	1	140	5700	8.53	-		11.00	-	4.57	-		Pass
HT40	MCS0	1	102	5510	3.71	-		11.00	-	4.57	-		Pass
HT40	MCS0	1	110	5550	5.80	-		11.00	-	4.57	-		Pass
HT40	MCS0	1	134	5670	5.11	-		11.00	-	4.57	-		Pass
VHT80	MCS0	1	106	5530	-2.32	-		11.00	-	4.57	-		Pass
VHT80	MCS0	1	122	5610	1.69	-		11.00	-	4.57	-		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	8.99	-		11.00	-	4.57	-		Pass
HT20	MCS0	1	144	5720	8.31	-		11.00	-	4.57	-		Pass
HT40	MCS0	1	142	5710	4.64	-		11.00	-	4.57	-		Pass
VHT80	MCS0	1	138	5690	1.41	-		11.00	-	4.57	-		Pass

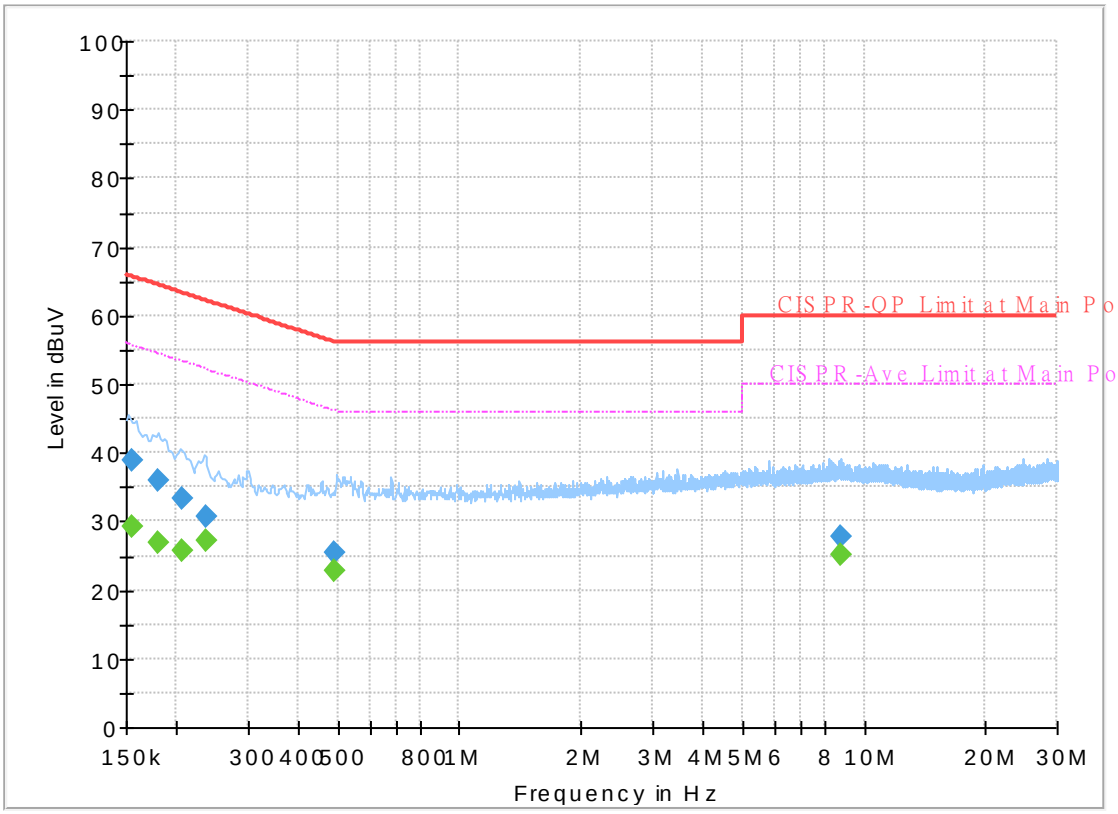
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO :	092923-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



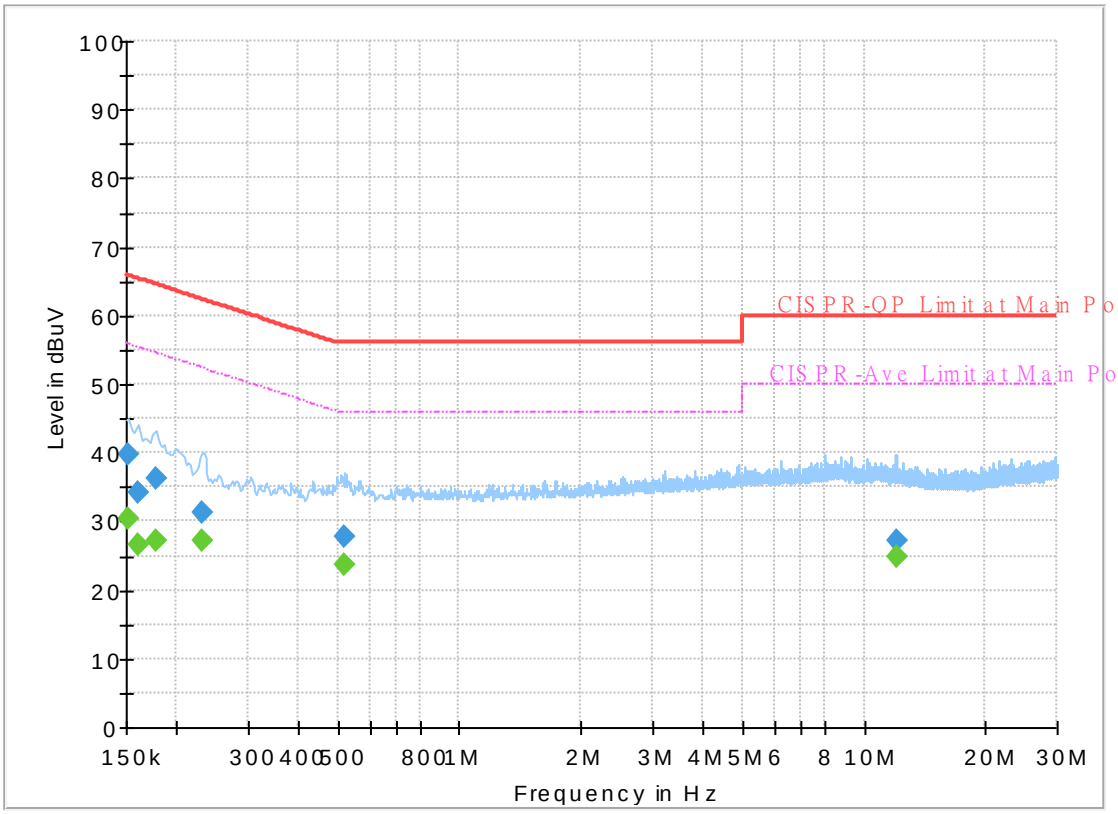
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.155805	---	29.25	55.69	26.44	L1	OFF	19.6
0.155805	39.01	---	65.69	26.68	L1	OFF	19.6
0.180420	---	26.95	54.47	27.52	L1	OFF	19.6
0.180420	36.00	---	64.47	28.47	L1	OFF	19.6
0.205350	---	25.83	53.39	27.56	L1	OFF	19.5
0.205350	33.21	---	63.39	30.18	L1	OFF	19.5
0.235320	---	27.26	52.26	25.00	L1	OFF	19.5
0.235320	30.61	---	62.26	31.65	L1	OFF	19.5
0.492000	---	22.91	46.13	23.22	L1	OFF	19.5
0.492000	25.43	---	56.13	30.70	L1	OFF	19.5
8.776500	---	25.24	50.00	24.76	L1	OFF	20.0
8.776500	27.74	---	60.00	32.26	L1	OFF	20.0

EUT Information

Report NO :	092923-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	30.47	55.88	25.41	N	OFF	19.6
0.152250	39.90	---	65.88	25.98	N	OFF	19.6
0.161250	---	26.57	55.40	28.83	N	OFF	19.6
0.161250	34.30	---	65.40	31.10	N	OFF	19.6
0.177000	---	27.06	54.63	27.57	N	OFF	19.6
0.177000	36.37	---	64.63	28.26	N	OFF	19.6
0.231000	---	27.09	52.41	25.32	N	OFF	19.6
0.231000	31.42	---	62.41	30.99	N	OFF	19.6
0.516750	---	23.71	46.00	22.29	N	OFF	19.6
0.516750	27.65	---	56.00	28.35	N	OFF	19.6
11.991750	---	24.97	50.00	25.03	N	OFF	20.1
11.991750	27.18	---	60.00	32.82	N	OFF	20.1

Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	Temperature :	20~25°C
		Relative Humidity :	50~58%

Band 1 - 5150~5250MHz

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 36 5180MHz		5150	54.67	-19.33	74	44.19	34.2	11.56	35.28	100	20	P	H
		5150	44.46	-9.54	54	33.98	34.2	11.56	35.28	100	20	A	H
	*	5180	106.18	-	-	95.6	34.27	11.58	35.27	100	20	P	H
	*	5180	99.12	-	-	88.54	34.27	11.58	35.27	100	20	A	H
		5149.76	53.36	-20.64	74	42.88	34.2	11.56	35.28	100	30	P	V
		5150	45.83	-8.17	54	35.35	34.2	11.56	35.28	100	30	A	V
	*	5180	107.43	-	-	96.85	34.27	11.58	35.27	100	30	P	V
	*	5180	100.3	-	-	89.72	34.27	11.58	35.27	100	30	A	V
802.11a CH 44 5220MHz		5071.24	48.59	-25.41	74	38.34	34.07	11.49	35.31	100	20	P	H
		5150	40.22	-13.78	54	29.74	34.2	11.56	35.28	100	20	A	H
	*	5220	107.58	-	-	96.91	34.3	11.62	35.25	100	20	P	H
	*	5220	100.28	-	-	89.61	34.3	11.62	35.25	100	20	A	H
		5357.8	48.11	-25.89	74	37.12	34.4	11.77	35.18	100	20	P	H
		5350.52	39.1	-14.9	54	28.12	34.4	11.76	35.18	100	20	A	H
		5123.5	49.83	-24.17	74	39.39	34.2	11.53	35.29	105	30	P	V
		5150	40.63	-13.37	54	30.15	34.2	11.56	35.28	105	30	A	V
	*	5220	108.9	-	-	98.23	34.3	11.62	35.25	105	30	P	V
	*	5220	101.54	-	-	90.87	34.3	11.62	35.25	105	30	A	V
		5441.24	48.24	-25.76	74	36.92	34.6	11.86	35.14	105	30	P	V
		5350	39.5	-14.5	54	28.52	34.4	11.76	35.18	105	30	A	V

802.11a CH 48 5240MHz		5148.46	49.79	-24.21	74	39.31	34.2	11.56	35.28	107	19	P	H
		5149.76	39.68	-14.32	54	29.2	34.2	11.56	35.28	107	19	A	H
	*	5240	107.51	-	-	96.81	34.3	11.64	35.24	107	19	P	H
	*	5240	99.91	-	-	89.21	34.3	11.64	35.24	107	19	A	H
		5367.6	47.94	-26.06	74	36.87	34.47	11.78	35.18	107	19	P	H
		5360.04	39.13	-14.87	54	28.14	34.4	11.77	35.18	107	19	A	H
		5140.14	49.95	-24.05	74	39.49	34.2	11.55	35.29	107	27	P	V
		5147.68	40.28	-13.72	54	29.8	34.2	11.56	35.28	107	27	A	V
	*	5240	108.35	-	-	97.65	34.3	11.64	35.24	107	27	P	V
	*	5240	101.37	-	-	90.67	34.3	11.64	35.24	107	27	A	V
		5386.36	49.12	-24.88	74	37.96	34.53	11.8	35.17	107	27	P	V
		5352.2	39.96	-14.04	54	28.98	34.4	11.76	35.18	107	27	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	44.39	-23.81	68.2	48.22	37.57	17.63	59.03	100	0	P	H
		15540	44.48	-29.52	74	39.34	40.27	21.64	56.77	100	0	P	H
		10360	42.82	-25.38	68.2	46.65	37.57	17.63	59.03	100	0	P	V
		15540	44.72	-29.28	74	39.58	40.27	21.64	56.77	100	0	P	V
802.11a CH 44 5220MHz		10440	43.58	-24.62	68.2	47.25	37.6	17.7	58.97	100	0	P	H
		15660	45.67	-28.33	74	40.31	40.4	21.71	56.75	100	0	P	H
		10440	43.86	-24.34	68.2	47.53	37.6	17.7	58.97	100	0	P	V
		15660	45.02	-28.98	74	39.66	40.4	21.71	56.75	100	0	P	V
802.11a CH 48 5240MHz		10480	44.76	-23.44	68.2	48.37	37.6	17.73	58.94	100	0	P	H
		15720	46.49	-27.51	74	40.88	40.62	21.73	56.74	100	0	P	H
		10480	46.68	-21.52	68.2	50.29	37.6	17.73	58.94	100	0	P	V
		15720	46.76	-27.24	74	41.15	40.62	21.73	56.74	100	0	P	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)
		5148.46	53.3	-20.7	74	42.82	34.2	11.56	35.28	102	20	P	H
		5150	45.71	-8.29	54	35.23	34.2	11.56	35.28	102	20	A	H
802.11n	*	5180	106.8	-	-	96.22	34.27	11.58	35.27	102	20	P	H
HT20	*	5180	99.26	-	-	88.68	34.27	11.58	35.27	102	20	A	H
CH 36		5147.68	55.13	-18.87	74	44.65	34.2	11.56	35.28	100	31	P	V
5180MHz		5150	47.25	-6.75	54	36.77	34.2	11.56	35.28	100	31	A	V
	*	5180	107.87	-	-	97.29	34.27	11.58	35.27	100	31	P	V
	*	5180	100.44	-	-	89.86	34.27	11.58	35.27	100	31	A	V
		5120.64	49.23	-24.77	74	38.79	34.2	11.53	35.29	100	21	P	H
		5148.46	40.2	-13.8	54	29.72	34.2	11.56	35.28	100	21	A	H
	*	5220	106.82	-	-	96.15	34.3	11.62	35.25	100	21	P	H
	*	5220	99.52	-	-	88.85	34.3	11.62	35.25	100	21	A	H
802.11n		5357.52	48.53	-25.47	74	37.54	34.4	11.77	35.18	100	21	P	H
HT20		5350.8	39.1	-14.9	54	28.12	34.4	11.76	35.18	100	21	A	H
CH 44		5092.04	50.03	-23.97	74	39.63	34.2	11.51	35.31	104	31	P	V
5220MHz		5150	40.8	-13.2	54	30.32	34.2	11.56	35.28	104	31	A	V
	*	5220	108.32	-	-	97.65	34.3	11.62	35.25	104	31	P	V
	*	5220	100.85	-	-	90.18	34.3	11.62	35.25	104	31	A	V
		5408.2	48.6	-25.4	74	37.34	34.6	11.82	35.16	104	31	P	V
		5350	39.61	-14.39	54	28.63	34.4	11.76	35.18	104	31	A	V

		5142.74	48.72	-25.28	74	38.26	34.2	11.55	35.29	106	21	P	H
		5128.44	39.81	-14.19	54	29.36	34.2	11.54	35.29	106	21	A	H
	*	5240	106.19	-	-	95.49	34.3	11.64	35.24	106	21	P	H
	*	5240	99.17	-	-	88.47	34.3	11.64	35.24	106	21	A	H
802.11n		5397.28	48.96	-25.04	74	37.72	34.6	11.81	35.17	106	21	P	H
HT20		5351.36	39.2	-14.8	54	28.22	34.4	11.76	35.18	106	21	A	H
CH 48		5111.28	49.44	-24.56	74	39.02	34.2	11.52	35.3	117	28	P	V
5240MHz		5147.68	40.29	-13.71	54	29.81	34.2	11.56	35.28	117	28	A	V
	*	5240	107.84	-	-	97.14	34.3	11.64	35.24	117	28	P	V
	*	5240	100.74	-	-	90.04	34.3	11.64	35.24	117	28	A	V
		5353.32	47.95	-26.05	74	36.97	34.4	11.76	35.18	117	28	P	V
		5351.36	39.92	-14.08	54	28.94	34.4	11.76	35.18	117	28	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)
802.11n		10360	43.17	-25.03	68.2	47	37.57	17.63	59.03	100	0	P	H
HT20		15440	46.06	-27.94	74	41.17	40.17	21.59	56.87	100	0	P	H
CH 36		10360	45.22	-22.98	68.2	49.05	37.57	17.63	59.03	100	0	P	V
5180MHz		15440	45.46	-28.54	74	40.57	40.17	21.59	56.87	100	0	P	V
802.11n		10440	42.68	-25.52	68.2	46.35	37.6	17.7	58.97	100	0	P	H
HT20		15660	43.72	-30.28	74	38.36	40.4	21.71	56.75	100	0	P	H
CH 44		10440	43.98	-24.22	68.2	47.65	37.6	17.7	58.97	100	0	P	V
5220MHz		15660	44.07	-29.93	74	38.71	40.4	21.71	56.75	100	0	P	V
802.11n		10480	42.87	-25.33	68.2	46.48	37.6	17.73	58.94	100	0	P	H
HT20		15720	45.42	-28.58	74	39.81	40.62	21.73	56.74	100	0	P	H
CH 48		10480	44.88	-23.32	68.2	48.49	37.6	17.73	58.94	100	0	P	V
5240MHz		15720	45.46	-28.54	74	39.85	40.62	21.73	56.74	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5149.5	53.24	-20.76	74	42.76	34.2	11.56	35.28	139	7	P	H
		5150	46.26	-7.74	54	35.78	34.2	11.56	35.28	139	7	A	H
	*	5190	99.89	-	-	89.3	34.27	11.59	35.27	139	7	P	H
	*	5190	92.71	-	-	82.12	34.27	11.59	35.27	139	7	A	H
		5435.92	48.51	-25.49	74	37.2	34.6	11.85	35.14	139	7	P	H
		5372.64	39.04	-14.96	54	27.97	34.47	11.78	35.18	139	7	A	H
		5143.78	56.04	-17.96	74	45.57	34.2	11.55	35.28	104	39	P	V
		5150	48.09	-5.91	54	37.61	34.2	11.56	35.28	104	39	A	V
	*	5190	100.63	-	-	90.04	34.27	11.59	35.27	104	39	P	V
	*	5190	93.45	-	-	82.86	34.27	11.59	35.27	104	39	A	V
		5425	48.42	-25.58	74	37.12	34.6	11.84	35.14	104	39	P	V
		5359.48	39.09	-14.91	54	28.1	34.4	11.77	35.18	104	39	A	V
802.11n HT40 CH 46 5230MHz		5138.06	48.81	-25.19	74	38.35	34.2	11.55	35.29	100	20	P	H
		5150	41.17	-12.83	54	30.69	34.2	11.56	35.28	100	20	A	H
	*	5230	102.9	-	-	92.21	34.3	11.63	35.24	100	20	P	H
	*	5230	95.79	-	-	85.1	34.3	11.63	35.24	100	20	A	H
		5371.24	47.94	-26.06	74	36.87	34.47	11.78	35.18	100	20	P	H
		5351.08	39.24	-14.76	54	28.26	34.4	11.76	35.18	100	20	A	H
		5142.22	49.86	-24.14	74	39.4	34.2	11.55	35.29	106	29	P	V
		5149.76	41.76	-12.24	54	31.28	34.2	11.56	35.28	106	29	A	V
	*	5230	104.33	-	-	93.64	34.3	11.63	35.24	106	29	P	V
	*	5230	97.17	-	-	86.48	34.3	11.63	35.24	106	29	A	V
		5429.76	48.57	-25.43	74	37.27	34.6	11.84	35.14	106	29	P	V
		5351.92	39.72	-14.28	54	28.74	34.4	11.76	35.18	106	29	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)
802.11n		10380	41.38	-26.82	68.2	45.17	37.58	17.65	59.02	100	0	P	H
HT40		15570	43.7	-30.3	74	38.57	40.23	21.67	56.77	100	0	P	H
CH 38		10380	41.31	-26.89	68.2	45.1	37.58	17.65	59.02	100	0	P	V
5190MHz		15570	43.85	-30.15	74	38.72	40.23	21.67	56.77	100	0	P	V
802.11n		10460	43.47	-24.73	68.2	47.12	37.6	17.71	58.96	100	0	P	H
HT40		15690	43.99	-30.01	74	38.49	40.53	21.72	56.75	100	0	P	H
CH 46		10460	42.51	-25.69	68.2	46.16	37.6	17.71	58.96	100	0	P	V
5230MHz		15690	44.47	-29.53	74	38.97	40.53	21.72	56.75	100	0	P	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		5147.94	56.2	-17.8	74	45.72	34.2	11.56	35.28	100	7	P	H
		5149.76	47.66	-6.34	54	37.18	34.2	11.56	35.28	100	7	A	H
	*	5210	95.92	-	-	85.26	34.3	11.61	35.25	100	7	P	H
	*	5210	88.63	-	-	77.97	34.3	11.61	35.25	100	7	A	H
		5355.28	48.2	-25.8	74	37.22	34.4	11.76	35.18	100	7	P	H
		5358.36	39.09	-14.91	54	28.1	34.4	11.77	35.18	100	7	A	H
		5149.76	56.56	-17.44	74	46.08	34.2	11.56	35.28	100	38	P	V
		5150	49.12	-4.88	54	38.64	34.2	11.56	35.28	100	38	A	V
	*	5210	97.21	-	-	86.55	34.3	11.61	35.25	100	38	P	V
	*	5210	89.87	-	-	79.21	34.3	11.61	35.25	100	38	A	V
		5435.08	48.3	-25.7	74	36.99	34.6	11.85	35.14	100	38	P	V
		5458.88	39.05	-14.95	54	27.7	34.6	11.88	35.13	100	38	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	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		10420	42.07	-26.13	68.2	45.78	37.6	17.68	58.99	100	0	P	H
VHT80		15630	43.79	-30.21	74	38.53	40.33	21.69	56.76	100	0	P	H
CH 42		10420	42.29	-25.91	68.2	46	37.6	17.68	58.99	100	0	P	V
5210MHz		15630	43.44	-30.56	74	38.18	40.33	21.69	56.76	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5149.45	49.39	-24.61	74	38.91	34.2	11.56	35.28	108	20	P	H
		5148.05	39.75	-14.25	54	29.27	34.2	11.56	35.28	108	20	A	H
	*	5260	107.05	-	-	96.25	34.37	11.66	35.23	108	20	P	H
	*	5260	99.86	-	-	89.06	34.37	11.66	35.23	108	20	A	H
		5353.68	48.95	-25.05	74	37.97	34.4	11.76	35.18	108	20	P	H
		5372.16	39.81	-14.19	54	28.74	34.47	11.78	35.18	108	20	A	H
		5150	50.06	-23.94	74	39.58	34.2	11.56	35.28	104	29	P	V
		5148.05	40.41	-13.59	54	29.93	34.2	11.56	35.28	104	29	A	V
	*	5260	109.1	-	-	98.3	34.37	11.66	35.23	104	29	P	V
	*	5260	101.87	-	-	91.07	34.37	11.66	35.23	104	29	A	V
		5370.48	49.15	-24.85	74	38.08	34.47	11.78	35.18	104	29	P	V
		5350.56	41.18	-12.82	54	30.2	34.4	11.76	35.18	104	29	A	V
802.11a CH 60 5300MHz		5098.7	47.54	-26.46	74	37.13	34.2	11.51	35.3	100	7	P	H
		5123.9	38.78	-15.22	54	28.33	34.2	11.54	35.29	100	7	A	H
	*	5300	108.38	-	-	97.38	34.5	11.7	35.2	100	7	P	H
	*	5300	100.95	-	-	89.95	34.5	11.7	35.2	100	7	A	H
		5363.52	50.66	-23.34	74	39.6	34.47	11.77	35.18	100	7	P	H
		5350.08	41.91	-12.09	54	30.93	34.4	11.76	35.18	100	7	A	H
		5143.5	49.26	-24.74	74	38.8	34.2	11.55	35.29	102	30	P	V
		5150	39.81	-14.19	54	29.33	34.2	11.56	35.28	102	30	A	V
	*	5300	109.2	-	-	98.2	34.5	11.7	35.2	102	30	P	V
	*	5300	101.89	-	-	90.89	34.5	11.7	35.2	102	30	A	V
		5356.56	50.29	-23.71	74	39.31	34.4	11.76	35.18	102	30	P	V
		5350.08	42.32	-11.68	54	31.34	34.4	11.76	35.18	102	30	A	V

802.11a CH 64 5320MHz	*	5320	108.53	-	-	97.53	34.47	11.73	35.2	112	7	P	H
	*	5320	101.13	-	-	90.13	34.47	11.73	35.2	112	7	A	H
		5350.08	57.24	-16.76	74	46.26	34.4	11.76	35.18	112	7	P	H
		5350.08	49.1	-4.9	54	38.12	34.4	11.76	35.18	112	7	A	H
	*	5320	109.27	-	-	98.27	34.47	11.73	35.2	105	27	P	V
	*	5320	102.21	-	-	91.21	34.47	11.73	35.2	105	27	A	V
		5351.52	59.3	-14.7	74	48.32	34.4	11.76	35.18	105	27	P	V
		5350.08	49.54	-4.46	54	38.56	34.4	11.76	35.18	105	27	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)
802.11a CH 52 5260MHz		10520	43.15	-25.05	68.2	46.72	37.6	17.75	58.92	100	0	P	H
		15780	44.85	-29.15	74	39.16	40.67	21.76	56.74	100	0	P	H
		10520	43.58	-24.62	68.2	47.15	37.6	17.75	58.92	100	0	P	V
		15780	45.19	-28.81	74	39.5	40.67	21.76	56.74	100	0	P	V
802.11a CH 60 5300MHz		10600	41.72	-32.28	74	45.19	37.6	17.81	58.88	100	0	P	H
		15900	45.77	-28.23	74	39.86	40.8	21.83	56.72	100	0	P	H
		10600	45.08	-28.92	74	48.55	37.6	17.81	58.88	100	0	P	V
		15900	45.6	-28.4	74	39.69	40.8	21.83	56.72	100	0	P	V
802.11a CH 64 5320MHz		10640	45.53	-28.47	74	48.92	37.63	17.84	58.86	100	0	P	H
		15960	44.17	-29.83	74	38.09	40.93	21.86	56.71	100	0	P	H
		10640	44.95	-29.05	74	48.34	37.63	17.84	58.86	100	0	P	V
		15960	44.7	-29.3	74	38.62	40.93	21.86	56.71	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	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)
		5129.5	48.08	-25.92	74	37.63	34.2	11.54	35.29	100	6	P	H
		5148.4	39.22	-14.78	54	28.74	34.2	11.56	35.28	100	6	A	H
	*	5260	106.31	-	-	95.51	34.37	11.66	35.23	100	6	P	H
	*	5260	99.05	-	-	88.25	34.37	11.66	35.23	100	6	A	H
802.11n		5350.08	49.36	-24.64	74	38.38	34.4	11.76	35.18	100	6	P	H
HT20		5350.08	40.79	-13.21	54	29.81	34.4	11.76	35.18	100	6	A	H
CH 52		5114.8	49.94	-24.06	74	39.51	34.2	11.53	35.3	102	29	P	V
5260MHz		5148.75	40.63	-13.37	54	30.15	34.2	11.56	35.28	102	29	A	V
	*	5260	108.29	-	-	97.49	34.37	11.66	35.23	102	29	P	V
	*	5260	101.14	-	-	90.34	34.37	11.66	35.23	102	29	A	V
		5387.04	50.36	-23.64	74	39.2	34.53	11.8	35.17	102	29	P	V
		5350.08	41.24	-12.76	54	30.26	34.4	11.76	35.18	102	29	A	V
		5140	48.09	-25.91	74	37.63	34.2	11.55	35.29	100	6	P	H
		5149.8	38.85	-15.15	54	28.37	34.2	11.56	35.28	100	6	A	H
	*	5300	107.51	-	-	96.51	34.5	11.7	35.2	100	6	P	H
	*	5300	100.38	-	-	89.38	34.5	11.7	35.2	100	6	A	H
802.11n		5353.44	49.91	-24.09	74	38.93	34.4	11.76	35.18	100	6	P	H
HT20		5350.32	41.91	-12.09	54	30.93	34.4	11.76	35.18	100	6	A	H
CH 60		5148.75	49.79	-24.21	74	39.31	34.2	11.56	35.28	101	29	P	V
5300MHz		5149.45	39.83	-14.17	54	29.35	34.2	11.56	35.28	101	29	A	V
	*	5300	108.69	-	-	97.69	34.5	11.7	35.2	101	29	P	V
	*	5300	101.24	-	-	90.24	34.5	11.7	35.2	101	29	A	V
		5350.32	49.91	-24.09	74	38.93	34.4	11.76	35.18	101	29	P	V
		5350.32	42.38	-11.62	54	31.4	34.4	11.76	35.18	101	29	A	V

802.11n HT20 CH 64 5320MHz	*	5320	107.71	-	-	96.71	34.47	11.73	35.2	112	7	P	H
	*	5320	100.44	-	-	89.44	34.47	11.73	35.2	112	7	A	H
		5351.36	57.51	-16.49	74	46.53	34.4	11.76	35.18	112	7	P	H
		5350.08	48.58	-5.42	54	37.6	34.4	11.76	35.18	112	7	A	H
	*	5320	109.2	-	-	98.2	34.47	11.73	35.2	104	28	P	V
	*	5320	101.6	-	-	90.6	34.47	11.73	35.2	104	28	A	V
		5350.4	61.19	-12.81	74	50.21	34.4	11.76	35.18	104	28	P	V
		5350.08	49.56	-4.44	54	38.58	34.4	11.76	35.18	104	28	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	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		10520	42.93	-25.27	68.2	46.5	37.6	17.75	58.92	100	0	P	H
HT20		15780	45.12	-28.88	74	39.43	40.67	21.76	56.74	100	0	P	H
CH 52		10520	44.62	-23.58	68.2	48.19	37.6	17.75	58.92	100	0	P	V
5260MHz		15780	46.03	-27.97	74	40.34	40.67	21.76	56.74	100	0	P	V
802.11n		10600	41.72	-32.28	74	45.19	37.6	17.81	58.88	100	0	P	H
HT20		15900	45.53	-28.47	74	39.62	40.8	21.83	56.72	100	0	P	H
CH 60		10600	43.76	-30.24	74	47.23	37.6	17.81	58.88	100	0	P	V
5300MHz		15900	46.37	-27.63	74	40.46	40.8	21.83	56.72	100	0	P	V
802.11n		10640	42.66	-31.34	74	46.05	37.63	17.84	58.86	100	0	P	H
HT20		15960	44.48	-29.52	74	38.4	40.93	21.86	56.71	100	0	P	H
CH 64		10640	44.42	-29.58	74	47.81	37.63	17.84	58.86	100	0	P	V
5320MHz		15960	43.73	-30.27	74	37.65	40.93	21.86	56.71	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n 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		5095.55	48.29	-25.71	74	37.88	34.2	11.51	35.3	112	6	P	H
		5148.4	39.2	-14.8	54	28.72	34.2	11.56	35.28	112	6	A	H
	*	5270	102.88	-	-	92.07	34.37	11.67	35.23	112	6	P	H
	*	5270	95.47	-	-	84.66	34.37	11.67	35.23	112	6	A	H
		5353.2	50.22	-23.78	74	39.24	34.4	11.76	35.18	112	6	P	H
		5350.32	41.66	-12.34	54	30.68	34.4	11.76	35.18	112	6	A	H
		5127.75	48.92	-25.08	74	38.47	34.2	11.54	35.29	100	28	P	V
		5150	40.32	-13.68	54	29.84	34.2	11.56	35.28	100	28	A	V
	*	5270	104.02	-	-	93.21	34.37	11.67	35.23	100	28	P	V
	*	5270	96.63	-	-	85.82	34.37	11.67	35.23	100	28	A	V
		5375.52	50.74	-23.26	74	39.66	34.47	11.78	35.17	100	28	P	V
		5350.08	41.94	-12.06	54	30.96	34.4	11.76	35.18	100	28	A	V
802.11n HT40 CH 62 5310MHz		5067.55	47.49	-26.51	74	37.24	34.07	11.49	35.31	100	7	P	H
		5124.95	38.63	-15.37	54	28.18	34.2	11.54	35.29	100	7	A	H
	*	5310	101.36	-	-	90.37	34.47	11.72	35.2	100	7	P	H
	*	5310	94.26	-	-	83.27	34.47	11.72	35.2	100	7	A	H
		5351.04	58.83	-15.17	74	47.85	34.4	11.76	35.18	100	7	P	H
		5350.08	49.03	-4.97	54	38.05	34.4	11.76	35.18	100	7	A	H
		5130.55	48.45	-25.55	74	38	34.2	11.54	35.29	102	30	P	V
		5149.8	39.22	-14.78	54	28.74	34.2	11.56	35.28	102	30	A	V
	*	5310	102.62	-	-	91.63	34.47	11.72	35.2	102	30	P	V
	*	5310	95.5	-	-	84.51	34.47	11.72	35.2	102	30	A	V
		5350.32	59.43	-14.57	74	48.45	34.4	11.76	35.18	102	30	P	V
		5350.08	49.7	-4.3	54	38.72	34.4	11.76	35.18	102	30	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	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		10540	41.4	-26.8	68.2	44.95	37.6	17.76	58.91	100	0	P	H
HT40		15810	46.02	-27.98	74	40.27	40.7	21.78	56.73	100	0	P	H
CH 54		10540	42.76	-25.44	68.2	46.31	37.6	17.76	58.91	100	0	P	V
5270MHz		15810	44.7	-29.3	74	38.95	40.7	21.78	56.73	100	0	P	V
802.11n		10620	41.61	-32.39	74	45.03	37.62	17.83	58.87	100	0	P	H
HT40		15930	45.67	-28.33	74	39.66	40.87	21.85	56.71	100	0	P	H
CH 62		10620	41.42	-32.58	74	44.84	37.62	17.83	58.87	100	0	P	V
5310MHz		15930	45.78	-28.22	74	39.77	40.87	21.85	56.71	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac 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		5141.05	47.7	-26.3	74	37.24	34.2	11.55	35.29	174	6	P	H
		5149.8	39.08	-14.92	54	28.6	34.2	11.56	35.28	174	6	A	H
	*	5290	97.33	-	-	86.43	34.43	11.69	35.22	174	6	P	H
	*	5290	90.21	-	-	79.31	34.43	11.69	35.22	174	6	A	H
		5353.44	60.68	-13.32	74	49.7	34.4	11.76	35.18	174	6	P	H
		5350.32	48.29	-5.71	54	37.31	34.4	11.76	35.18	174	6	A	H
		5136.5	49.36	-24.64	74	38.9	34.2	11.55	35.29	100	30	P	V
		5149.45	39.7	-14.3	54	29.22	34.2	11.56	35.28	100	30	A	V
	*	5290	98.26	-	-	87.36	34.43	11.69	35.22	100	30	P	V
	*	5290	90.67	-	-	79.77	34.43	11.69	35.22	100	30	A	V
		5353.92	59.41	-14.59	74	48.43	34.4	11.76	35.18	100	30	P	V
		5350.08	48.81	-5.19	54	37.83	34.4	11.76	35.18	100	30	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	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		10580	41.21	-26.99	68.2	44.7	37.6	17.8	58.89	100	0	P	H
VHT80		15870	46.52	-27.48	74	40.65	40.78	21.81	56.72	100	0	P	H
CH 58		10580	40.82	-27.38	68.2	44.31	37.6	17.8	58.89	100	0	P	V
5290MHz		15870	45.3	-28.7	74	39.43	40.78	21.81	56.72	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (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 100 5500MHz		5459.12	52.06	-21.94	74	40.71	34.6	11.88	35.13	105	6	P	H
		5467.44	58.95	-9.25	68.2	47.52	34.67	11.89	35.13	105	6	P	H
		5460	44.25	-9.75	54	32.9	34.6	11.88	35.13	105	6	A	H
	*	5500	109.31	-	-	97.7	34.8	11.93	35.12	105	6	P	H
	*	5500	101.69	-	-	90.08	34.8	11.93	35.12	105	6	A	H
		5453.52	50.63	-23.37	74	39.29	34.6	11.87	35.13	102	27	P	V
		5466.8	54.62	-13.58	68.2	43.19	34.67	11.89	35.13	102	27	P	V
		5460	44.16	-9.84	54	32.81	34.6	11.88	35.13	102	27	A	V
	*	5500	110.12	-	-	98.51	34.8	11.93	35.12	102	27	P	V
	*	5500	102.5	-	-	90.89	34.8	11.93	35.12	102	27	A	V
802.11a CH 116 5580MHz		5428.48	49.47	-24.53	74	38.17	34.6	11.84	35.14	100	4	P	H
		5463.28	48.53	-19.67	68.2	37.11	34.67	11.88	35.13	100	4	P	H
		5459.92	41.07	-12.93	54	29.72	34.6	11.88	35.13	100	4	A	H
	*	5580	109.67	-	-	98.06	34.73	12.02	35.14	100	4	P	H
	*	5580	102.11	-	-	90.5	34.73	12.02	35.14	100	4	A	H
		5725.31	48.31	-19.89	68.2	36.52	34.7	12.25	35.16	100	4	P	H
		5418.16	49.22	-24.78	74	37.95	34.6	11.83	35.16	103	25	P	V
		5460	48.56	-19.64	68.2	37.21	34.6	11.88	35.13	103	25	P	V
		5459.92	41	-13	54	29.65	34.6	11.88	35.13	103	25	A	V
	*	5580	111.71	-	-	100.1	34.73	12.02	35.14	103	25	P	V
	*	5580	104.31	-	-	92.7	34.73	12.02	35.14	103	25	A	V
		5759.96	49.6	-18.6	68.2	37.74	34.73	12.3	35.17	103	25	P	V

802.11a CH 140 5700MHz	*	5700	107.13	-	-	95.39	34.7	12.2	35.16	105	2	P	H
	*	5700	99.15	-	-	87.41	34.7	12.2	35.16	105	2	A	H
		5727.4	56.14	-12.06	68.2	44.35	34.7	12.25	35.16	105	2	P	H
	*	5700	110.7	-	-	98.96	34.7	12.2	35.16	104	28	P	V
	*	5700	103.05	-	-	91.31	34.7	12.2	35.16	104	28	A	V
		5725.8	62.98	-5.22	68.2	51.19	34.7	12.25	35.16	104	28	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	43.94	-30.06	74	46.63	37.9	18.1	58.69	100	0	P	H
		16500	47.66	-20.54	68.2	39.61	42.1	22.37	56.42	100	0	P	H
		11000	45.32	-28.68	74	48.01	37.9	18.1	58.69	100	0	P	V
		16500	47.93	-20.27	68.2	39.88	42.1	22.37	56.42	100	0	P	V
802.11a CH 116 5580MHz		11160	44.04	-29.96	74	46.22	37.9	18.23	58.31	100	0	P	H
		16740	46.59	-21.61	68.2	38.18	42.14	22.6	56.33	100	0	P	H
		11160	44	-30	74	46.18	37.9	18.23	58.31	100	0	P	V
		16740	47.35	-20.85	68.2	38.94	42.14	22.6	56.33	100	0	P	V
802.11a CH 140 5700MHz		11400	42.32	-31.68	74	43.51	38.1	18.45	57.74	100	0	P	H
		17100	47.26	-20.94	68.2	38.92	41.7	22.91	56.27	100	0	P	H
		11400	43.84	-30.16	74	45.03	38.1	18.45	57.74	100	0	P	V
		17100	47.01	-21.19	68.2	38.67	41.7	22.91	56.27	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n 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)
		5458.16	52.12	-21.88	74	40.77	34.6	11.88	35.13	105	6	P	H
		5469.04	55.36	-12.84	68.2	43.93	34.67	11.89	35.13	105	6	P	H
		5460	44.17	-9.83	54	32.82	34.6	11.88	35.13	105	6	A	H
802.11n	*	5500	108.88	-	-	97.27	34.8	11.93	35.12	105	6	P	H
HT20	*	5500	101	-	-	89.39	34.8	11.93	35.12	105	6	A	H
CH 100		5453.36	52.46	-21.54	74	41.12	34.6	11.87	35.13	102	27	P	V
5500MHz		5468.56	56.55	-11.65	68.2	45.12	34.67	11.89	35.13	102	27	P	V
		5460	44.33	-9.67	54	32.98	34.6	11.88	35.13	102	27	A	V
	*	5500	109.72	-	-	98.11	34.8	11.93	35.12	102	27	P	V
	*	5500	102.04	-	-	90.43	34.8	11.93	35.12	102	27	A	V
		5407.6	48.82	-25.18	74	37.56	34.6	11.82	35.16	100	4	P	H
		5466.88	48.22	-19.98	68.2	36.79	34.67	11.89	35.13	100	4	P	H
		5459.92	41.25	-12.75	54	29.9	34.6	11.88	35.13	100	4	A	H
	*	5580	109.72	-	-	98.11	34.73	12.02	35.14	100	4	P	H
802.11n	*	5580	101.31	-	-	89.7	34.73	12.02	35.14	100	4	A	H
HT20		5730.035	48.24	-19.96	68.2	36.45	34.7	12.25	35.16	100	4	P	H
CH 116		5444.56	49.68	-24.32	74	38.36	34.6	11.86	35.14	103	25	P	V
5580MHz		5465.2	48.66	-19.54	68.2	37.24	34.67	11.88	35.13	103	25	P	V
		5459.92	41.22	-12.78	54	29.87	34.6	11.88	35.13	103	25	A	V
	*	5580	111.34	-	-	99.73	34.73	12.02	35.14	103	25	P	V
	*	5580	103.51	-	-	91.9	34.73	12.02	35.14	103	25	A	V
		5743.265	48.84	-19.36	68.2	37.03	34.7	12.28	35.17	103	25	P	V

802.11n HT20 CH 140 5700MHz	*	5700	105.9	-	-	94.16	34.7	12.2	35.16	105	2	P	H
	*	5700	98.45	-	-	86.71	34.7	12.2	35.16	105	2	A	H
		5725.24	56.81	-11.39	68.2	45.02	34.7	12.25	35.16	105	2	P	H
	*	5700	109.84	-	-	98.1	34.7	12.2	35.16	104	28	P	V
	*	5700	102.44	-	-	90.7	34.7	12.2	35.16	104	28	A	V
		5726.92	61.22	-6.98	68.2	49.43	34.7	12.25	35.16	104	28	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n 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)
802.11n		11000	43.12	-30.88	74	45.81	37.9	18.1	58.69	100	0	P	H
HT20		16500	47.55	-20.65	68.2	39.5	42.1	22.37	56.42	100	0	P	H
CH 100		11000	43.5	-30.5	74	46.19	37.9	18.1	58.69	100	0	P	V
5500MHz		16500	46.75	-21.45	68.2	38.7	42.1	22.37	56.42	100	0	P	V
802.11n		11160	43.42	-30.58	74	45.6	37.9	18.23	58.31	100	0	P	H
HT20		16740	46.1	-22.1	68.2	37.69	42.14	22.6	56.33	100	0	P	H
CH 116		11160	42.61	-31.39	74	44.79	37.9	18.23	58.31	100	0	P	V
5580MHz		16740	46.6	-21.6	68.2	38.19	42.14	22.6	56.33	100	0	P	V
802.11n		11400	43.79	-30.21	74	44.98	38.1	18.45	57.74	100	0	P	H
HT20		17100	46.86	-21.34	68.2	38.52	41.7	22.91	56.27	100	0	P	H
CH 140		11400	42.14	-31.86	74	43.33	38.1	18.45	57.74	100	0	P	V
5700MHz		17100	46.85	-21.35	68.2	38.51	41.7	22.91	56.27	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n 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)
		5458.72	55.31	-18.69	74	43.96	34.6	11.88	35.13	100	4	P	H
		5468.08	62.91	-5.29	68.2	51.48	34.67	11.89	35.13	100	4	P	H
		5459.92	46.34	-7.66	54	34.99	34.6	11.88	35.13	100	4	A	H
	*	5510	103.73	-	-	92.11	34.8	11.94	35.12	100	4	P	H
802.11n	*	5510	96.47	-	-	84.85	34.8	11.94	35.12	100	4	A	H
HT40		5757.755	47.97	-20.23	68.2	36.11	34.73	12.3	35.17	100	4	P	H
CH 102		5459.44	55.4	-18.6	74	44.05	34.6	11.88	35.13	115	26	P	V
5510MHz		5469.76	63.52	-4.68	68.2	52.09	34.67	11.89	35.13	115	26	P	V
		5459.92	46.71	-7.29	54	35.36	34.6	11.88	35.13	115	26	A	V
	*	5510	104.41	-	-	92.79	34.8	11.94	35.12	115	26	P	V
	*	5510	96.91	-	-	85.29	34.8	11.94	35.12	115	26	A	V
		5756.81	47.85	-20.35	68.2	35.99	34.73	12.3	35.17	115	26	P	V
		5433.76	50.57	-23.43	74	39.26	34.6	11.85	35.14	100	4	P	H
		5464.48	50.28	-17.92	68.2	38.86	34.67	11.88	35.13	100	4	P	H
		5459.92	42.96	-11.04	54	31.61	34.6	11.88	35.13	100	4	A	H
	*	5550	104.82	-	-	93.27	34.7	11.98	35.13	100	4	P	H
802.11n	*	5550	97.95	-	-	86.4	34.7	11.98	35.13	100	4	A	H
HT40		5729.72	49.48	-18.72	68.2	37.69	34.7	12.25	35.16	100	4	P	H
CH 110		5458.48	50.55	-23.45	74	39.2	34.6	11.88	35.13	117	25	P	V
5550MHz		5470	51.24	-16.96	68.2	39.81	34.67	11.89	35.13	117	25	P	V
		5459.92	42.8	-11.2	54	31.45	34.6	11.88	35.13	117	25	A	V
	*	5550	106.43	-	-	94.88	34.7	11.98	35.13	117	25	P	V
	*	5550	99.72	-	-	88.17	34.7	11.98	35.13	117	25	A	V
		5759.96	48.67	-19.53	68.2	36.81	34.73	12.3	35.17	117	25	P	V

		5457.8	47.15	-26.85	74	35.8	34.6	11.88	35.13	100	354	P	H
		5460.25	47.2	-21	68.2	35.85	34.6	11.88	35.13	100	354	P	H
		5459.9	38.97	-15.03	54	27.62	34.6	11.88	35.13	100	354	A	H
	*	5670	102.38	-	-	90.77	34.6	12.16	35.15	100	354	P	H
802.11n	*	5670	95.26	-	-	83.65	34.6	12.16	35.15	100	354	A	H
HT40		5731.925	50.16	-18.04	68.2	38.37	34.7	12.26	35.17	100	354	P	H
CH 134		5447.3	49.38	-24.62	74	38.06	34.6	11.86	35.14	109	26	P	V
5670MHz		5469.7	48.25	-19.95	68.2	36.82	34.67	11.89	35.13	109	26	P	V
		5456.05	40.05	-13.95	54	28.71	34.6	11.87	35.13	109	26	A	V
	*	5670	106.1	-	-	94.49	34.6	12.16	35.15	109	26	P	V
	*	5670	98.8	-	-	87.19	34.6	12.16	35.15	109	26	A	V
		5728.95	53.98	-14.22	68.2	42.19	34.7	12.25	35.16	109	26	P	V

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	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		11020	41.86	-32.14	74	44.49	37.9	18.11	58.64	100	0	P	H
HT40		16530	46.76	-21.44	68.2	38.78	42	22.39	56.41	100	0	P	H
CH 102		11020	42.55	-31.45	74	45.18	37.9	18.11	58.64	100	0	P	V
5510MHz		16530	46.82	-21.38	68.2	38.84	42	22.39	56.41	100	0	P	V
802.11n		11100	42.73	-31.27	74	45.1	37.9	18.18	58.45	100	0	P	H
HT40		16650	46.07	-22.13	68.2	37.99	41.95	22.5	56.37	100	0	P	H
CH 110		11100	42.36	-31.64	74	44.73	37.9	18.18	58.45	100	0	P	V
5550MHz		16650	46.33	-21.87	68.2	38.25	41.95	22.5	56.37	100	0	P	V
802.11n		11340	41.69	-32.31	74	43.08	38.1	18.39	57.88	100	0	P	H
HT40		17010	47.14	-21.06	68.2	38.75	41.78	22.85	56.24	100	0	P	H
CH 134		11340	41.98	-32.02	74	43.37	38.1	18.39	57.88	100	0	P	V
5670MHz		17010	47.06	-21.14	68.2	38.67	41.78	22.85	56.24	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (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)
		5455.6	58.86	-15.14	74	47.52	34.6	11.87	35.13	101	5	P	H
		5469.76	61.33	-6.87	68.2	49.9	34.67	11.89	35.13	101	5	P	H
		5459.92	48.55	-5.45	54	37.2	34.6	11.88	35.13	101	5	A	H
	*	5530	95.62	-	-	84.02	34.77	11.96	35.13	101	5	P	H
802.11ac	*	5530	89.36	-	-	77.76	34.77	11.96	35.13	101	5	A	H
VHT80		5757.125	47.99	-20.21	68.2	36.13	34.73	12.3	35.17	101	5	P	H
CH 106		5451.04	57.71	-16.29	74	46.37	34.6	11.87	35.13	109	16	P	V
5530MHz		5467.36	60.66	-7.54	68.2	49.23	34.67	11.89	35.13	109	16	P	V
		5459.92	49.8	-4.2	54	38.45	34.6	11.88	35.13	109	16	A	V
	*	5530	97.97	-	-	86.37	34.77	11.96	35.13	109	16	P	V
	*	5530	91.76	-	-	80.16	34.77	11.96	35.13	109	16	A	V
		5750.195	48.43	-19.77	68.2	36.61	34.7	12.29	35.17	109	16	P	V
		5456.75	50.45	-23.55	74	39.1	34.6	11.88	35.13	100	4	P	H
		5467.95	50.41	-17.79	68.2	38.98	34.67	11.89	35.13	100	4	P	H
		5459.55	42.22	-11.78	54	30.87	34.6	11.88	35.13	100	4	A	H
	*	5610	100.21	-	-	88.49	34.8	12.06	35.14	100	4	P	H
802.11ac	*	5610	93.16	-	-	81.44	34.8	12.06	35.14	100	4	A	H
VHT80		5728.075	49.72	-18.48	68.2	37.93	34.7	12.25	35.16	100	4	P	H
CH 122		5458.85	51.47	-22.53	74	40.12	34.6	11.88	35.13	100	28	P	V
5610MHz		5465.5	49.51	-18.69	68.2	38.08	34.67	11.89	35.13	100	28	P	V
		5459.9	42.11	-11.89	54	30.76	34.6	11.88	35.13	100	28	A	V
	*	5610	102.21	-	-	90.49	34.8	12.06	35.14	100	28	P	V
	*	5610	96.01	-	-	84.29	34.8	12.06	35.14	100	28	A	V
		5735.6	53.45	-14.75	68.2	41.66	34.7	12.26	35.17	100	28	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac 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)
802.11ac		11060	42.04	-31.96	74	44.54	37.9	18.15	58.55	100	0	P	H
VHT80		16590	46.07	-22.13	68.2	38.16	41.85	22.45	56.39	100	0	P	H
CH 106		11060	42.14	-31.86	74	44.64	37.9	18.15	58.55	100	0	P	V
5530MHz		16590	46.11	-22.09	68.2	38.2	41.85	22.45	56.39	100	0	P	V
802.11ac		11220	42.46	-31.54	74	44.41	37.93	18.29	58.17	100	0	P	H
VHT80		16830	46.97	-21.23	68.2	38.42	42.17	22.68	56.3	100	0	P	H
CH 122		11220	42.2	-31.8	74	44.15	37.93	18.29	58.17	100	0	P	V
5610MHz		16830	47.06	-21.14	68.2	38.51	42.17	22.68	56.3	100	0	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 (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 144 5720MHz		5420.2	48.09	-25.91	74	36.82	34.6	11.83	35.16	105	345	P	H
		5467.39	46.43	-21.77	68.2	35	34.67	11.89	35.13	105	345	P	H
		5459.98	38.52	-15.48	54	27.17	34.6	11.88	35.13	105	345	A	H
	*	5720	106.58	-	-	94.8	34.7	12.24	35.16	105	345	P	H
	*	5720	99.48	-	-	87.7	34.7	12.24	35.16	105	345	A	H
		5863.25	49.47	-18.73	68.2	37.36	34.9	12.4	35.19	105	345	P	H
		5415.52	47.37	-26.63	74	36.1	34.6	11.83	35.16	128	26	P	V
		5468.95	48.1	-20.1	68.2	36.67	34.67	11.89	35.13	128	26	P	V
		5459.98	39.1	-14.9	54	27.75	34.6	11.88	35.13	128	26	A	V
	*	5720	111.88	-	-	100.1	34.7	12.24	35.16	128	26	P	V
	*	5720	103.68	-	-	91.9	34.7	12.24	35.16	128	26	A	V
		5885.5	50.69	-17.51	68.2	38.57	34.9	12.41	35.19	128	26	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	42.32	-31.68	74	43.35	38.13	18.48	57.64	100	0	P	H
		17160	47.77	-20.43	68.2	39.62	41.5	22.94	56.29	100	0	P	H
		11440	43.6	-30.4	74	44.63	38.13	18.48	57.64	100	0	P	V
		17160	47.87	-20.33	68.2	39.72	41.5	22.94	56.29	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (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 HT20 CH 144 5720MHz		5454.52	47.57	-26.43	74	36.23	34.6	11.87	35.13	105	345	P	H
		5469.34	47.05	-21.15	68.2	35.62	34.67	11.89	35.13	105	345	P	H
		5459.98	38.66	-15.34	54	27.31	34.6	11.88	35.13	105	345	A	H
	*	5720	106.62	-	-	94.84	34.7	12.24	35.16	105	345	P	H
	*	5720	98.98	-	-	87.2	34.7	12.24	35.16	105	345	A	H
		5857	49.79	-18.41	68.2	37.67	34.9	12.4	35.18	105	345	P	H
		5365.21	48.56	-25.44	74	37.5	34.47	11.77	35.18	128	26	P	V
		5464.66	47.82	-20.38	68.2	36.4	34.67	11.88	35.13	128	26	P	V
		5459.98	39.22	-14.78	54	27.87	34.6	11.88	35.13	128	26	A	V
	*	5720	111.28	-	-	99.5	34.7	12.24	35.16	128	26	P	V
	*	5720	102.98	-	-	91.2	34.7	12.24	35.16	128	26	A	V
		5928.25	50.68	-17.52	68.2	38.48	34.97	12.43	35.2	128	26	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	42.61	-31.39	74	43.64	38.13	18.48	57.64	100	0	P	H
		17160	47.3	-20.9	68.2	39.15	41.5	22.94	56.29	100	0	P	H
		11440	42.92	-31.08	74	43.95	38.13	18.48	57.64	100	0	P	V
		17160	47.76	-20.44	68.2	39.61	41.5	22.94	56.29	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (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 142 5710MHz		5438.53	47.7	-26.3	74	36.39	34.6	11.85	35.14	104	344	P	H
		5467.78	46.57	-21.63	68.2	35.14	34.67	11.89	35.13	104	344	P	H
		5459.59	38.89	-15.11	54	27.54	34.6	11.88	35.13	104	344	A	H
	*	5710	103.01	-	-	91.25	34.7	12.22	35.16	104	344	P	H
	*	5710	95.96	-	-	84.2	34.7	12.22	35.16	104	344	A	H
		5867.25	50.97	-17.23	68.2	38.86	34.9	12.4	35.19	104	344	P	H
		5445.55	47.59	-26.41	74	36.27	34.6	11.86	35.14	106	7	P	V
		5467.39	47.29	-20.91	68.2	35.86	34.67	11.89	35.13	106	7	P	V
		5459.59	39	-15	54	27.65	34.6	11.88	35.13	106	7	A	V
	*	5710	106.89	-	-	95.13	34.7	12.22	35.16	106	7	P	V
	*	5710	99.46	-	-	87.7	34.7	12.22	35.16	106	7	A	V
		5885.75	50.4	-17.8	68.2	38.28	34.9	12.41	35.19	106	7	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	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		11420	41.84	-32.16	74	42.95	38.12	18.46	57.69	100	0	P	H
HT40		17130	47.37	-20.83	68.2	39.13	41.6	22.92	56.28	100	0	P	H
CH 142		11420	42.52	-31.48	74	43.63	38.12	18.46	57.69	100	0	P	V
5710MHz		17130	46.98	-21.22	68.2	38.74	41.6	22.92	56.28	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (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 138 5690MHz		5429.17	48.22	-25.78	74	36.92	34.6	11.84	35.14	108	344	P	H
		5469.73	47.29	-20.91	68.2	35.86	34.67	11.89	35.13	108	344	P	H
		5459.2	39.06	-14.94	54	27.71	34.6	11.88	35.13	108	344	A	H
	*	5690	98.19	-	-	86.46	34.7	12.19	35.16	108	344	P	H
	*	5690	91.48	-	-	79.75	34.7	12.19	35.16	108	344	A	H
		5872.3	49.42	-18.78	68.2	37.3	34.9	12.41	35.19	108	344	P	H
		5456.86	48.55	-25.45	74	37.2	34.6	11.88	35.13	100	7	P	V
		5466.61	47.99	-20.21	68.2	36.56	34.67	11.89	35.13	100	7	P	V
		5459.98	39.17	-14.83	54	27.82	34.6	11.88	35.13	100	7	A	V
	*	5690	101.95	-	-	90.22	34.7	12.19	35.16	100	7	P	V
	*	5690	95.49	-	-	83.76	34.7	12.19	35.16	100	7	A	V
		5918.2	51.78	-16.42	68.2	39.62	34.93	12.43	35.2	100	7	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	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		11380	42.49	-31.51	74	43.76	38.1	18.42	57.79	100	0	P	H
VHT80		17070	47.67	-20.53	68.2	39.32	41.73	22.88	56.26	100	0	P	H
CH 138		11380	41.13	-32.87	74	42.4	38.1	18.42	57.79	100	0	P	V
5690MHz		17070	47.47	-20.73	68.2	39.12	41.73	22.88	56.26	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
5GHz 802.11ac VHT80 SHF		39912	43.76	-30.24	74	43.25	44.23	12.08	55.8	150	0	P	H
		39560	43.52	-30.48	74	43.85	43.95	11.94	56.22	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

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)
5GHz 802.11ac VHT80 LF		49.71	22.97	-17.03	40	36.98	14.78	1.2	29.99	-	-	P	H
		129.09	29.59	-13.91	43.5	40.22	17.43	1.9	29.96	-	-	P	H
		176.61	29.32	-14.18	43.5	41.88	15.15	2.23	29.94	-	-	P	H
		902	31.84	-14.16	46	26.85	28.84	5.13	28.98	-	-	P	H
		931.4	31.86	-14.14	46	26.11	29.35	5.21	28.81	-	-	P	H
		946.1	33.06	-12.94	46	26.63	29.9	5.25	28.72	100	0	P	H
		30.27	32.43	-7.57	40	37.19	24.32	0.93	30.01	100	0	P	V
		34.05	28.56	-11.44	40	34.79	22.79	0.99	30.01	-	-	P	V
		68.07	30.03	-9.97	40	46.57	12.06	1.38	29.98	-	-	P	V
		877.5	31.82	-14.18	46	26.99	28.87	5.05	29.09	-	-	P	V
		920.9	32.99	-13.01	46	27.57	29.11	5.18	28.87	-	-	P	V
		953.1	33.31	-12.69	46	26.3	30.42	5.27	28.68	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(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”.

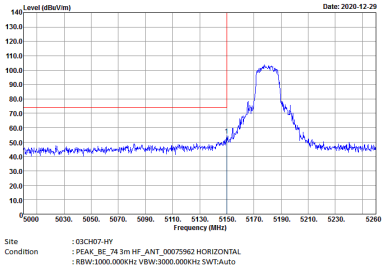
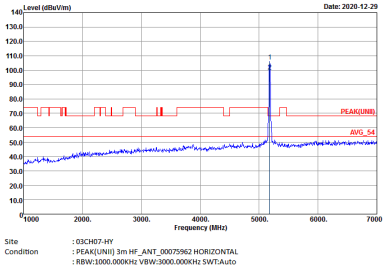
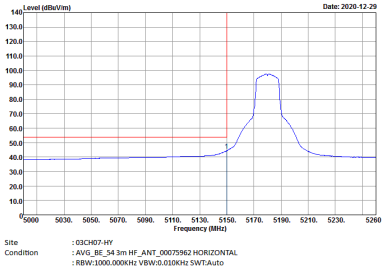
Appendix D. Radiated Spurious Emission

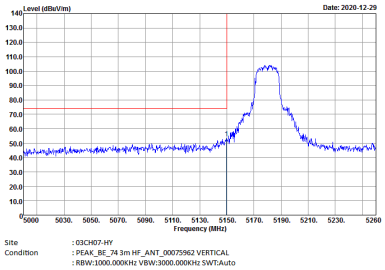
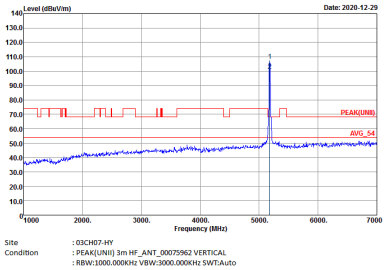
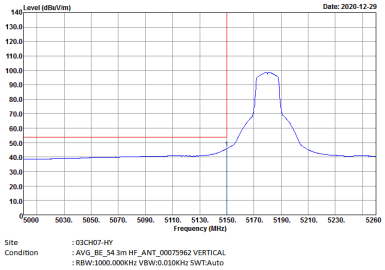
Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	**Temperature :**	20~25°C
		Relative Humidity :	50~58%

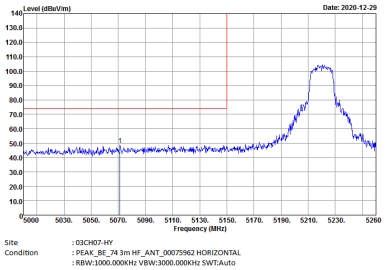
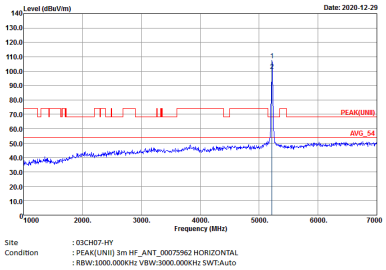
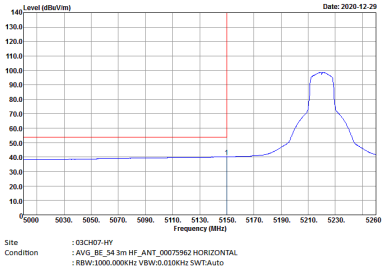
Note symbol

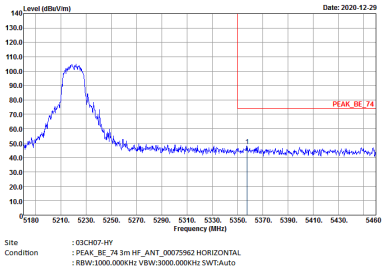
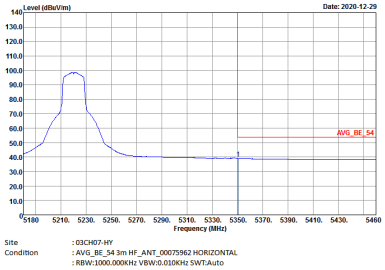
-L	**Low channel location**
-R	**High channel location**

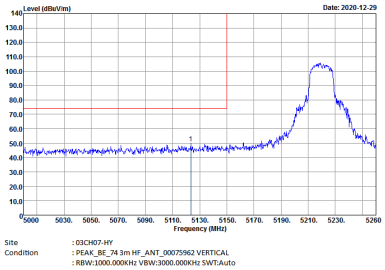
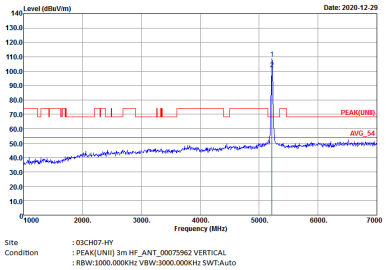
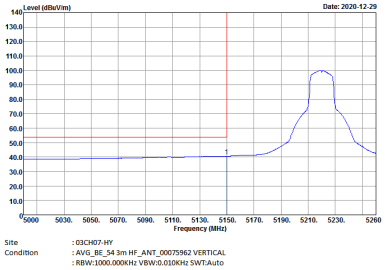
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

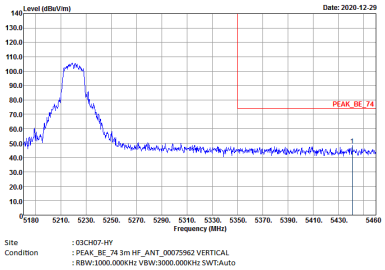
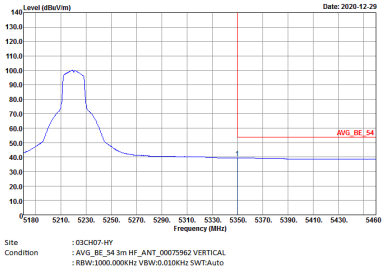
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

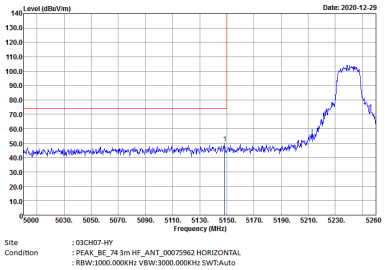
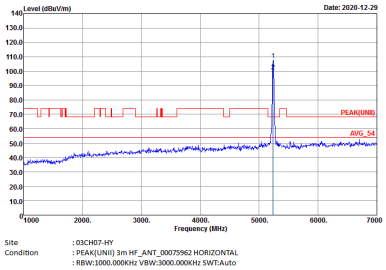
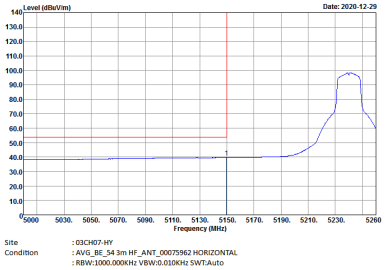
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

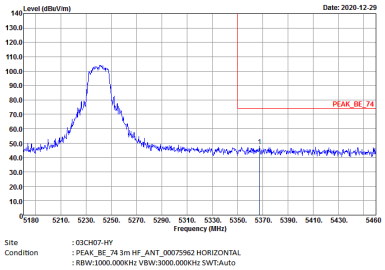
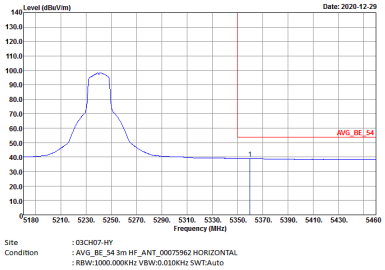
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

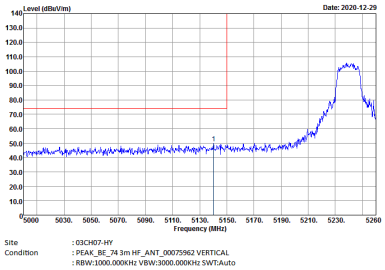
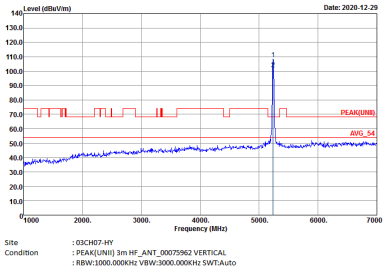
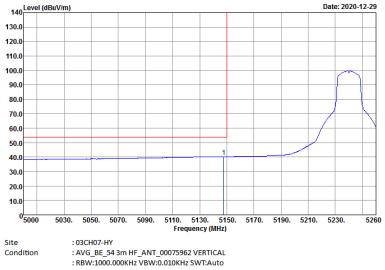
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

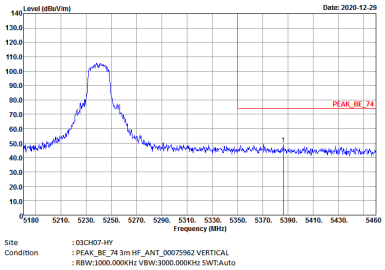
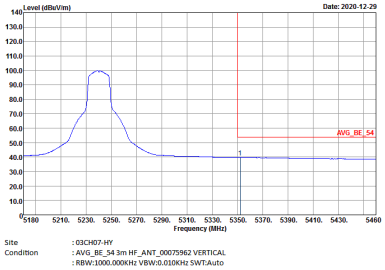
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

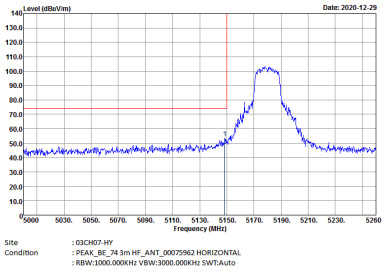
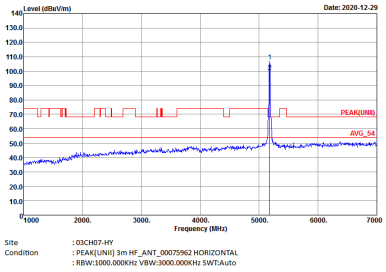
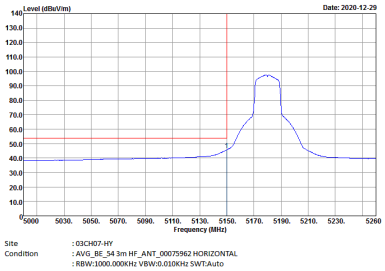
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

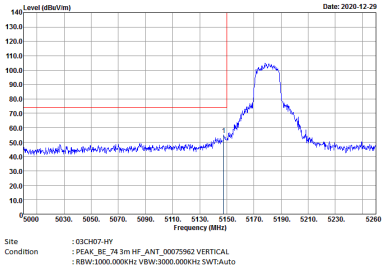
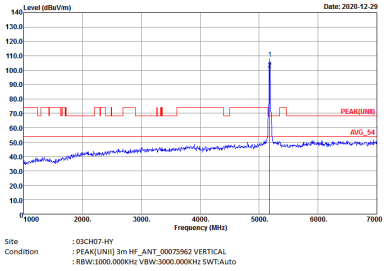
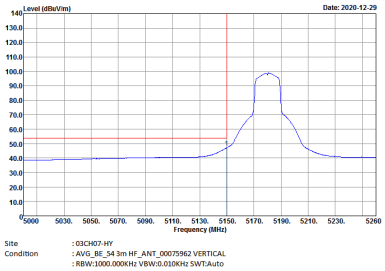
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

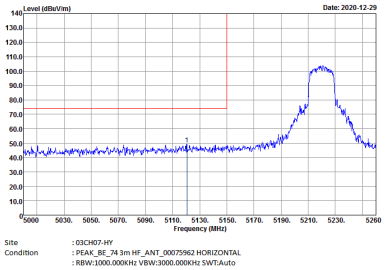
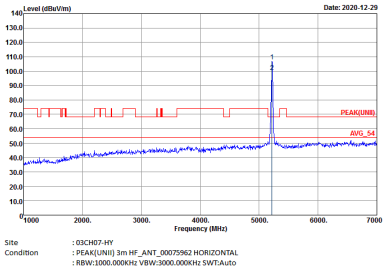
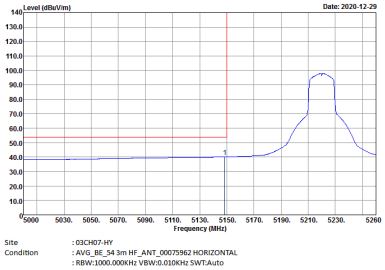
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

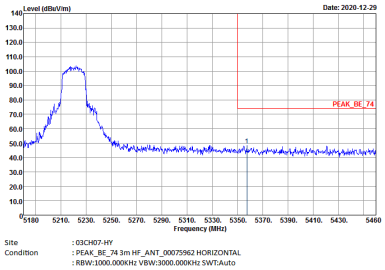
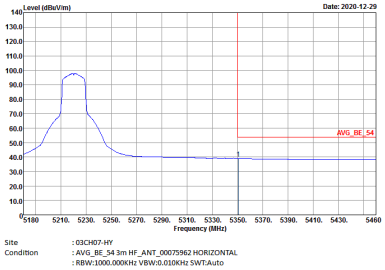
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

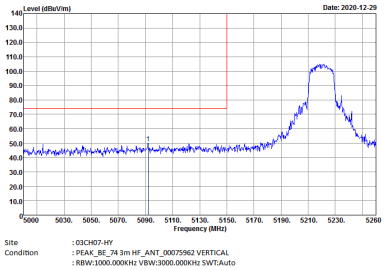
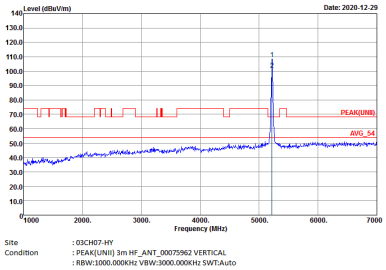
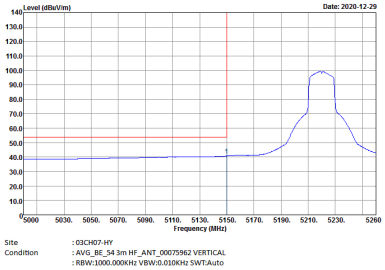
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

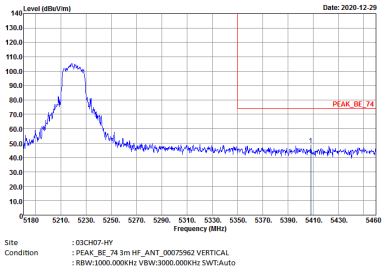
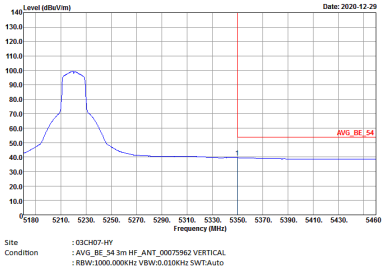
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

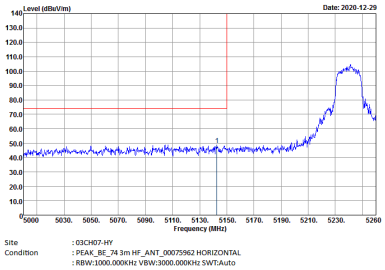
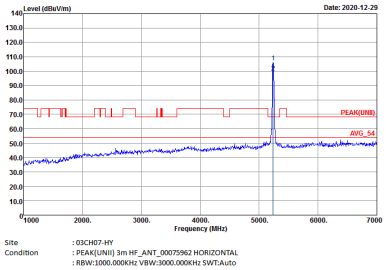
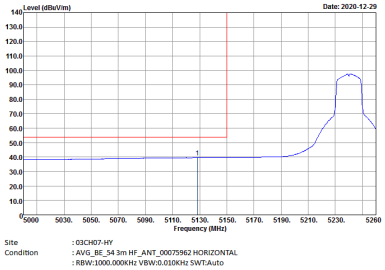
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

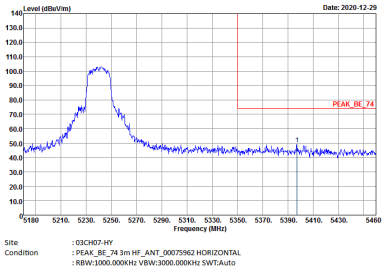
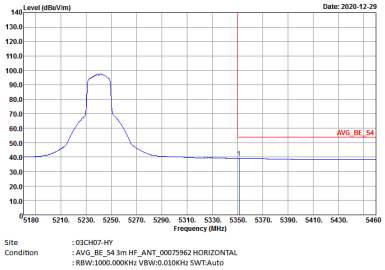
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

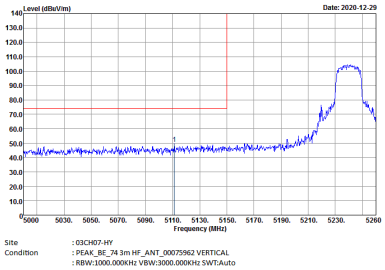
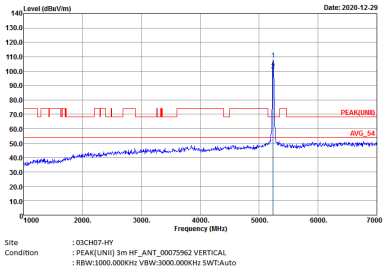
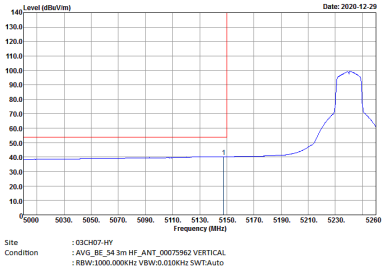
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

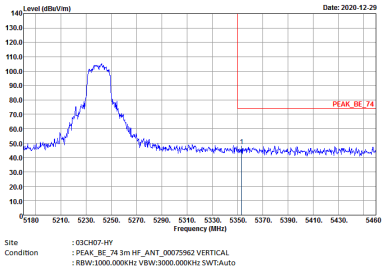
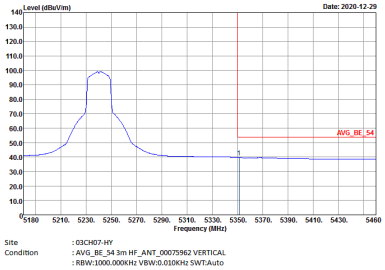
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

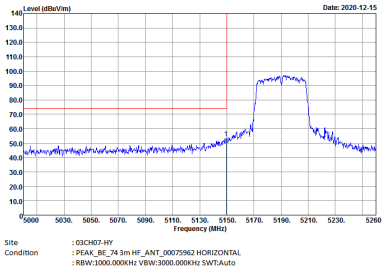
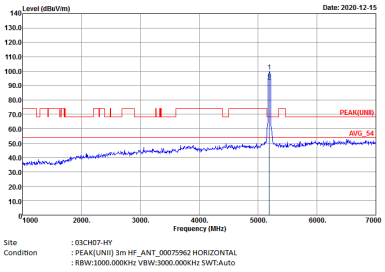
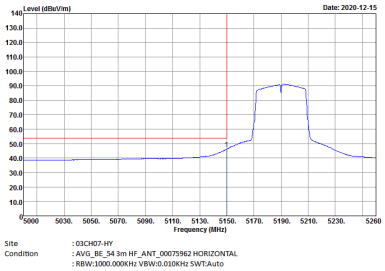
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

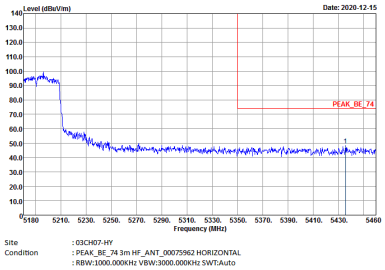
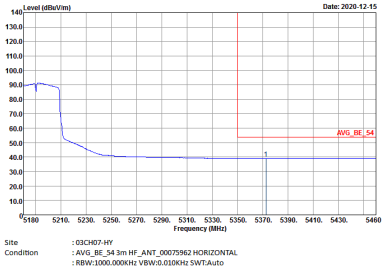
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

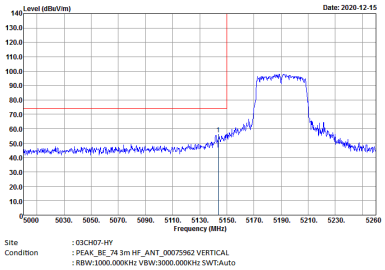
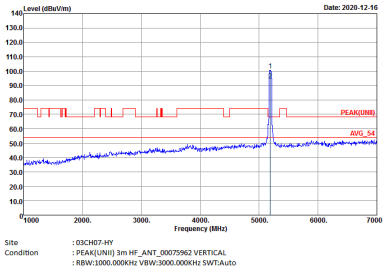
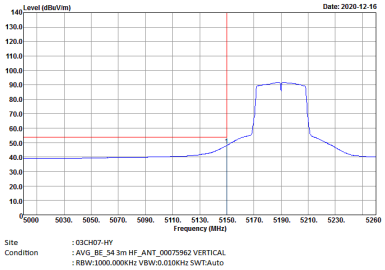
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

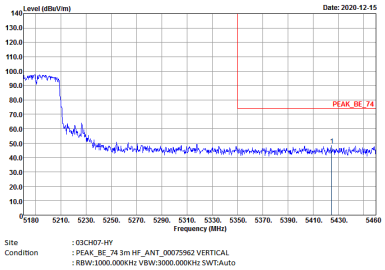
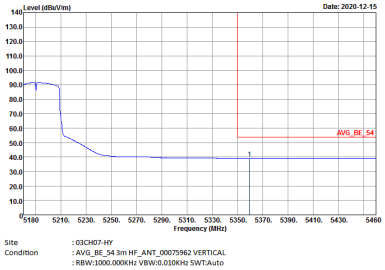
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

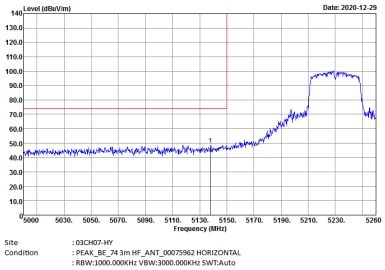
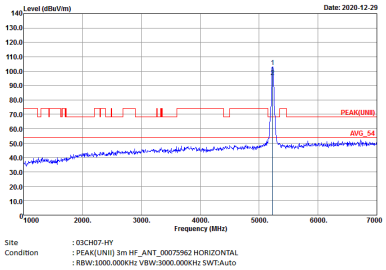
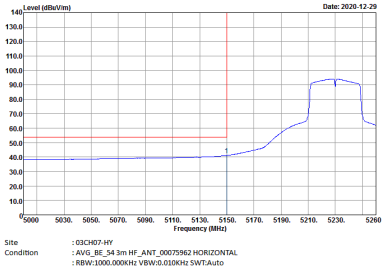
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

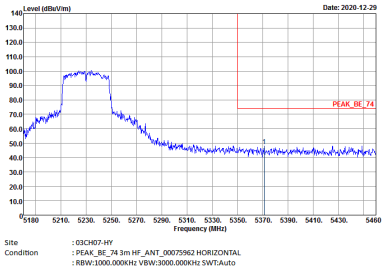
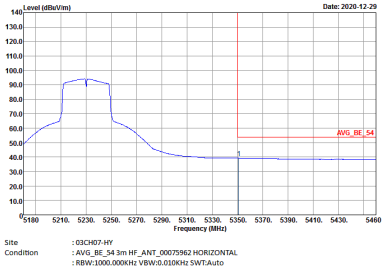
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

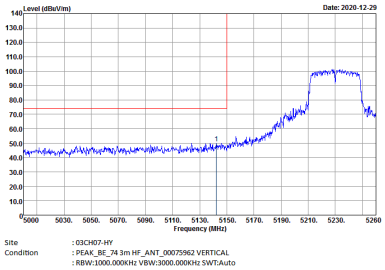
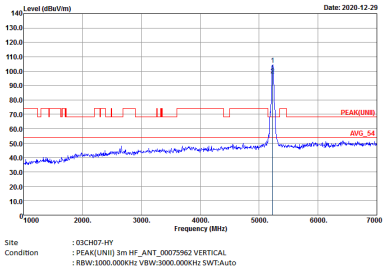
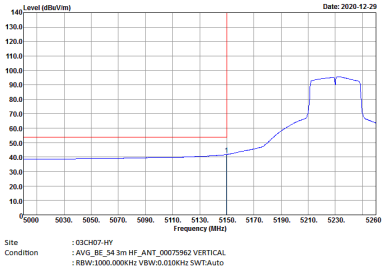
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

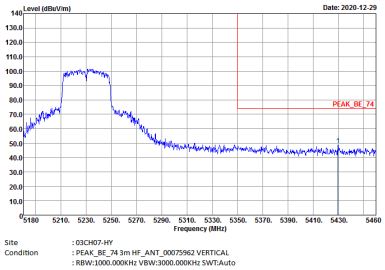
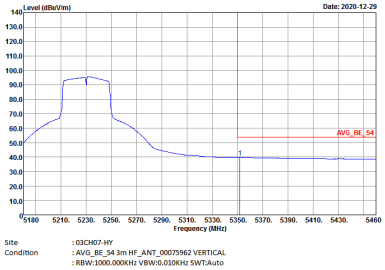
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

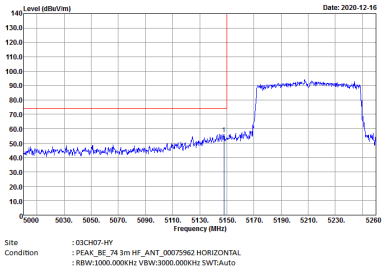
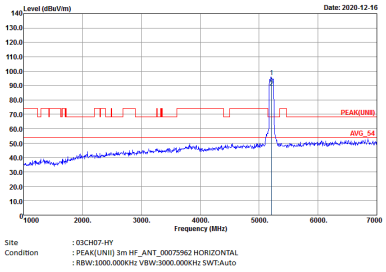
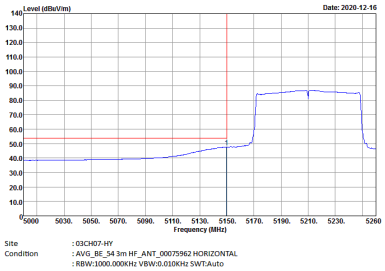
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

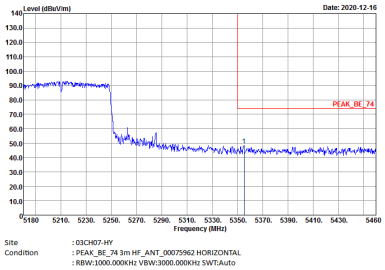
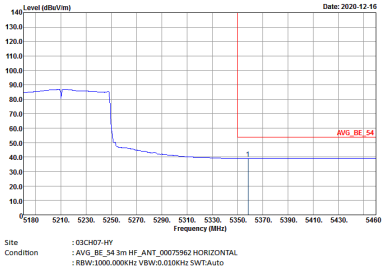
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

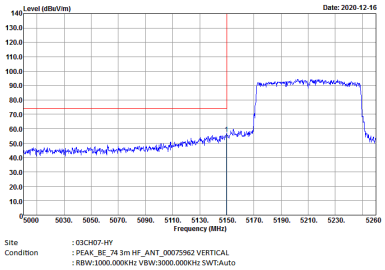
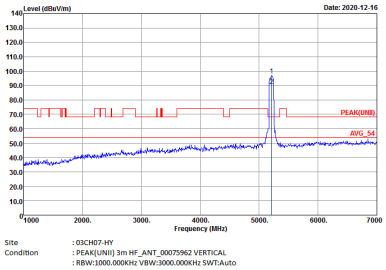
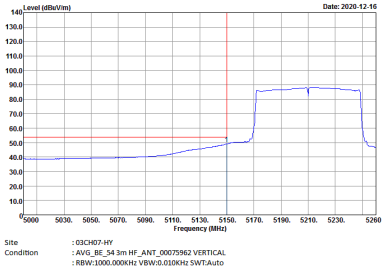
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

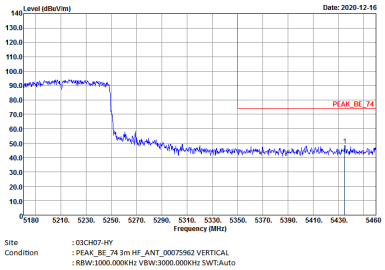
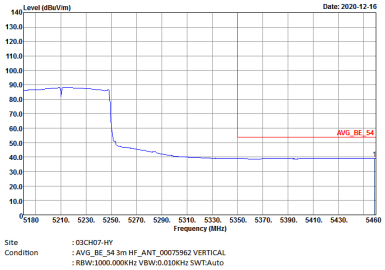
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

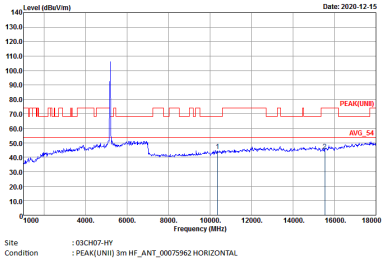
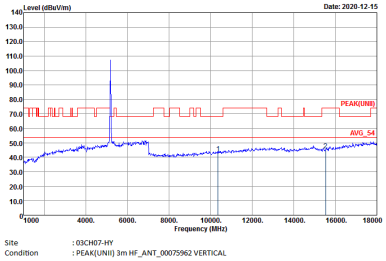
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

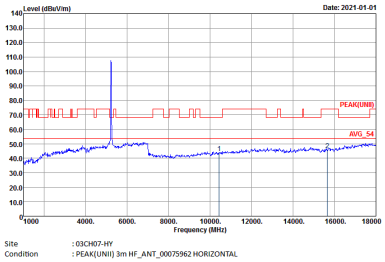
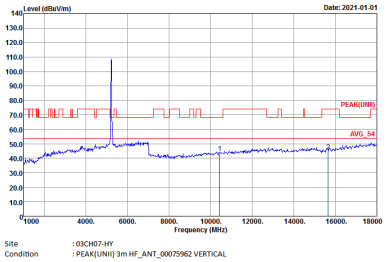
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

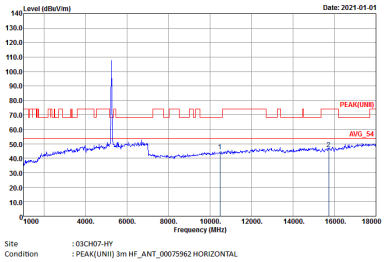
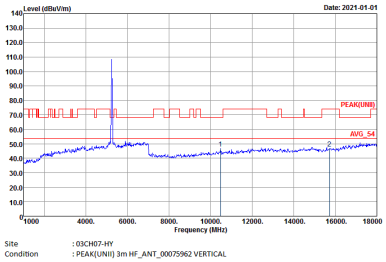
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

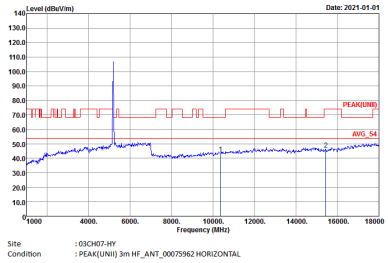
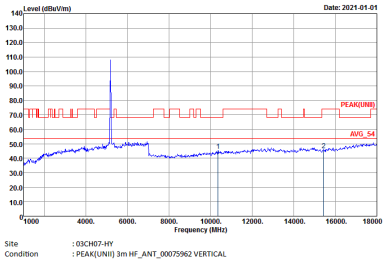
WIFI 802.11a (Harmonic @ 3m)

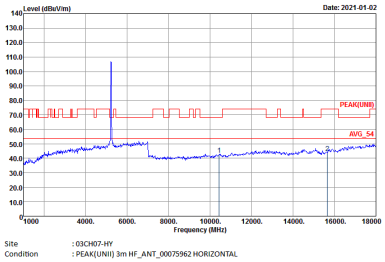
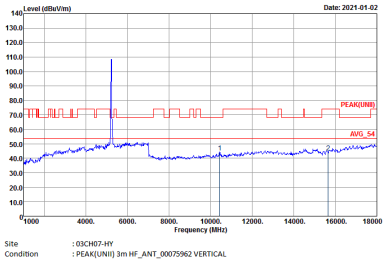
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

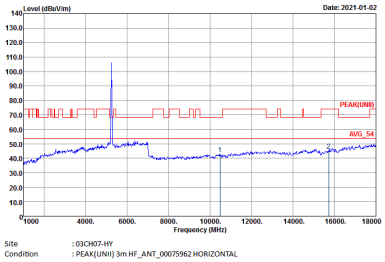
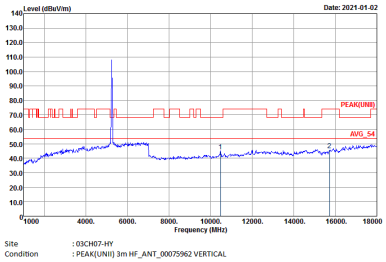
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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)

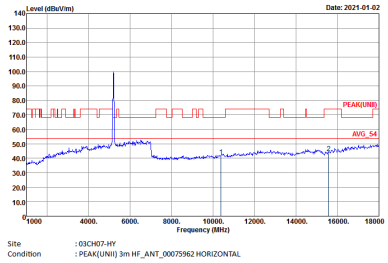
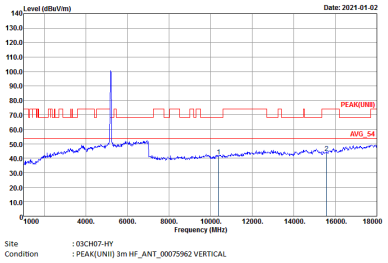
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

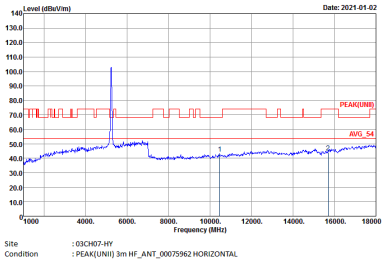
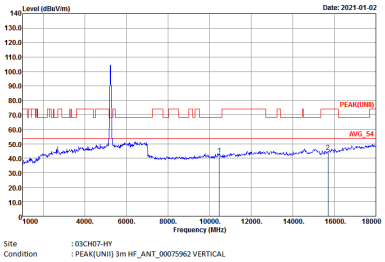
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

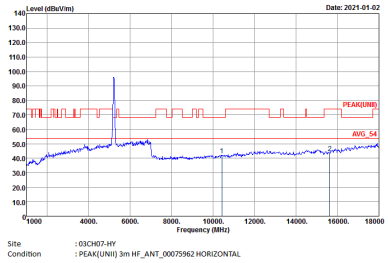
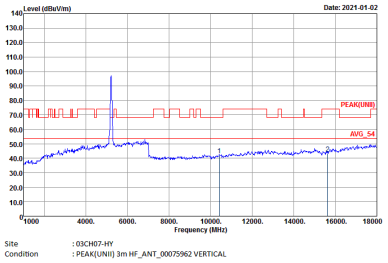
Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

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

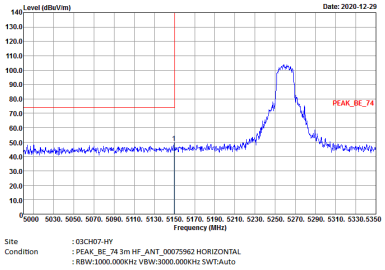
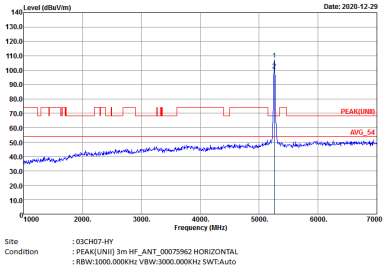
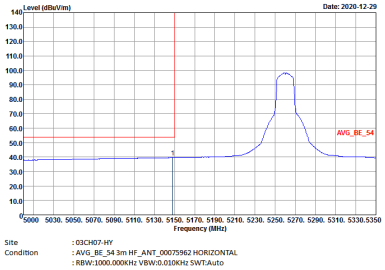
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.		

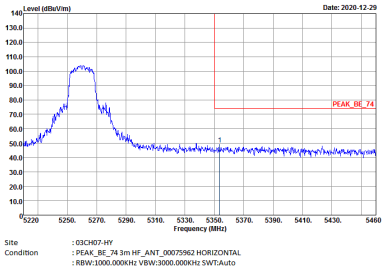
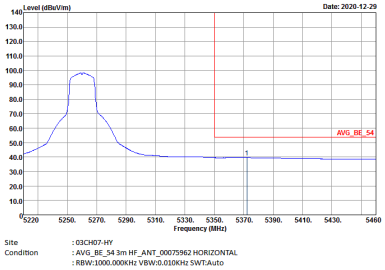
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

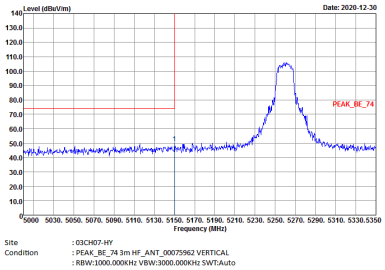
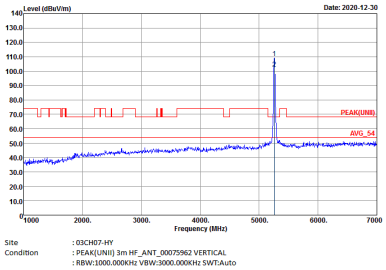
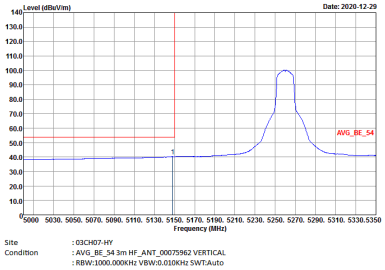
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak Avg.		

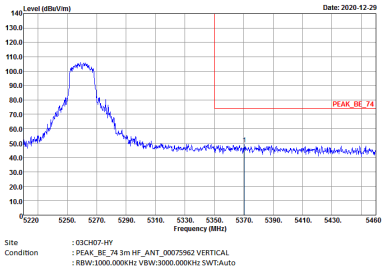
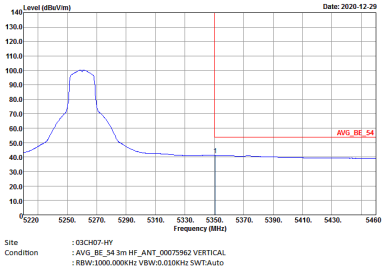
Band 2 - 5250~5350MHz

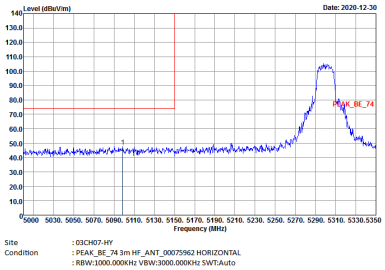
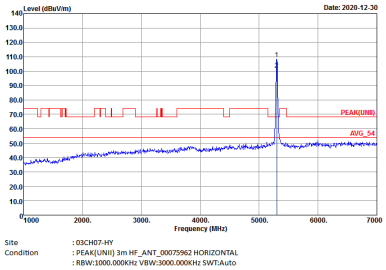
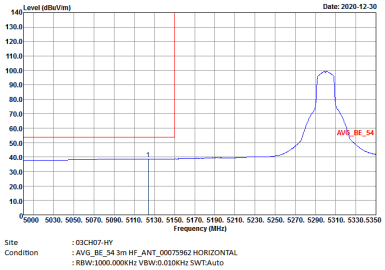
WIFI 802.11a (Band Edge @ 3m)

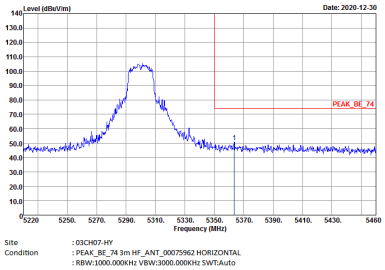
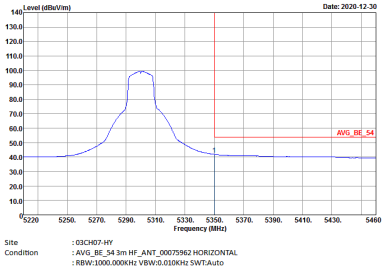
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

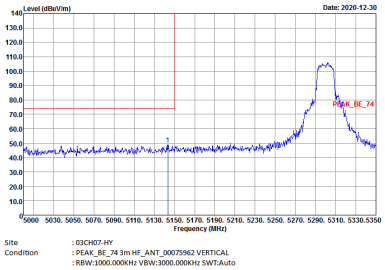
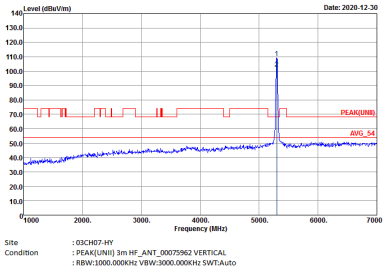
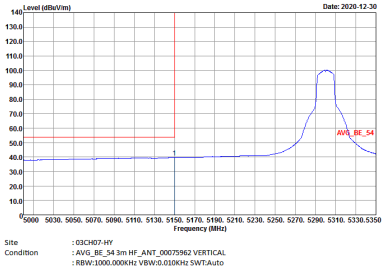
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

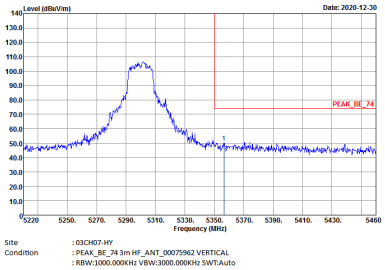
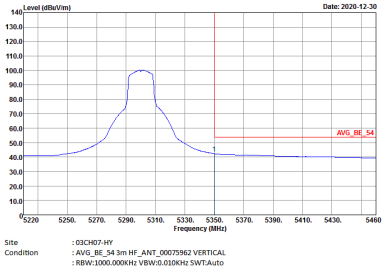
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

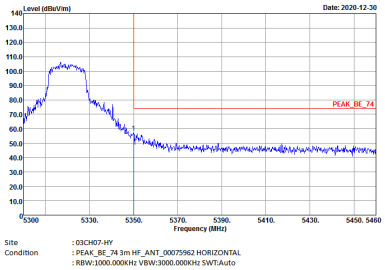
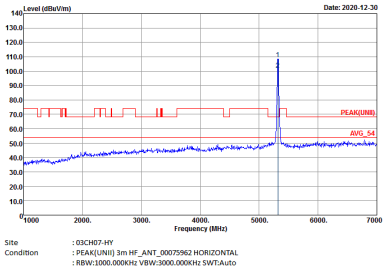
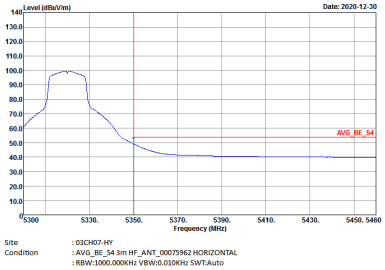
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

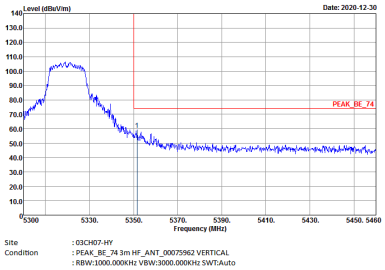
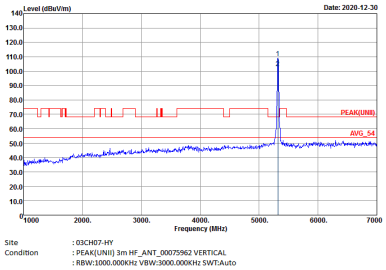
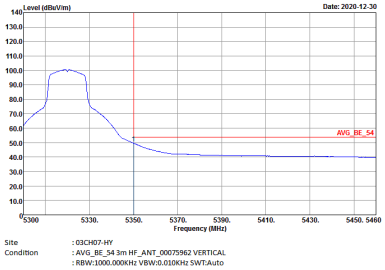
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

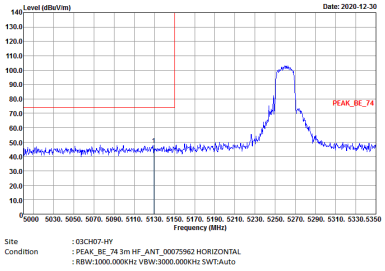
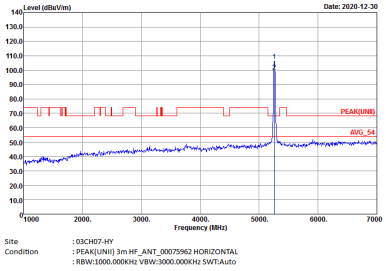
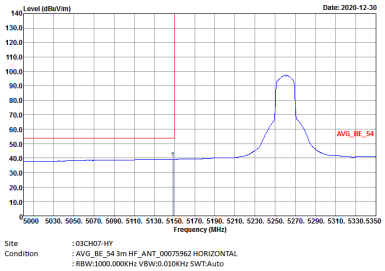
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

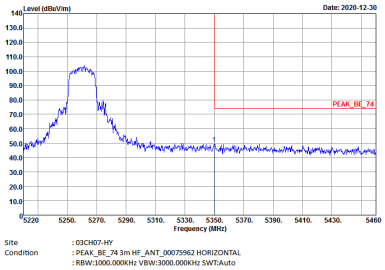
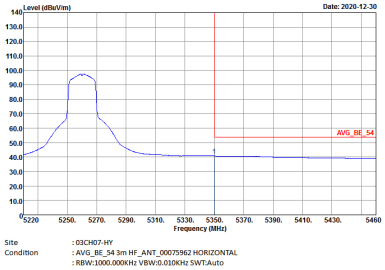
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

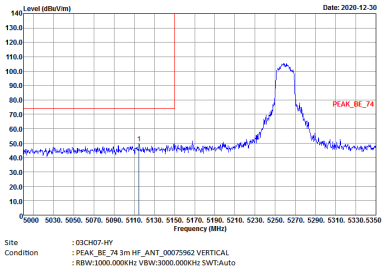
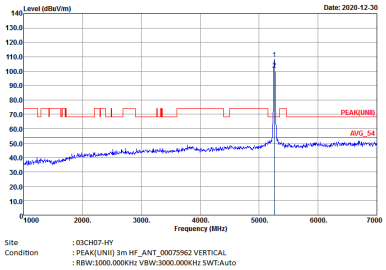
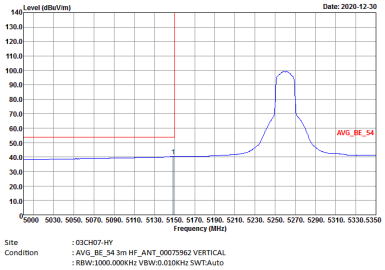
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

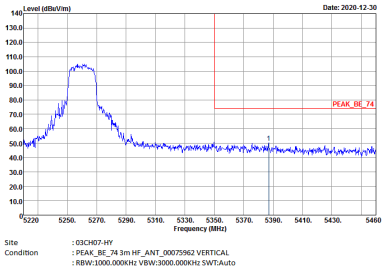
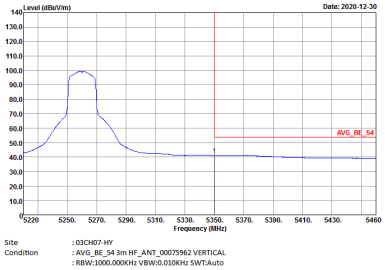
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

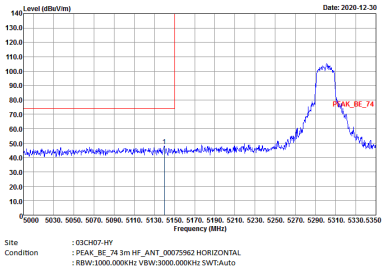
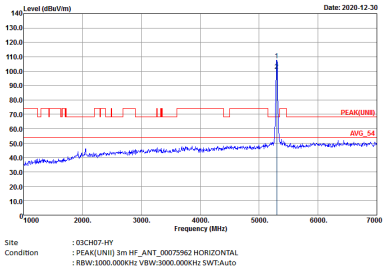
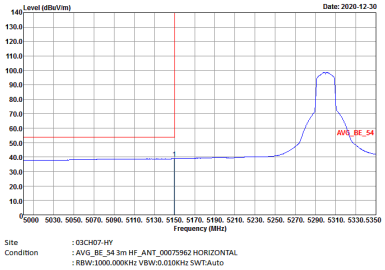
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

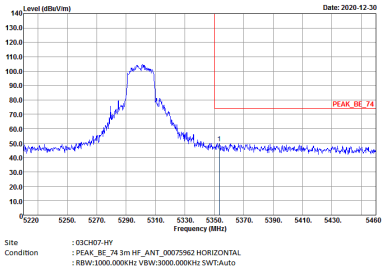
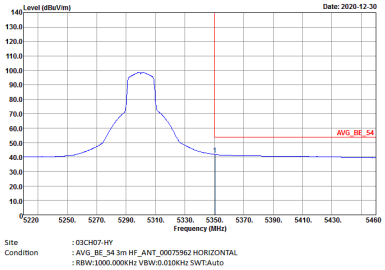
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

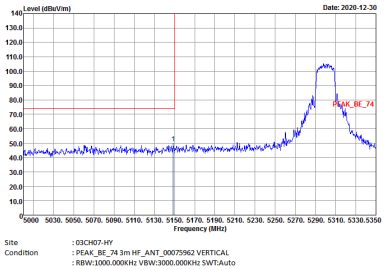
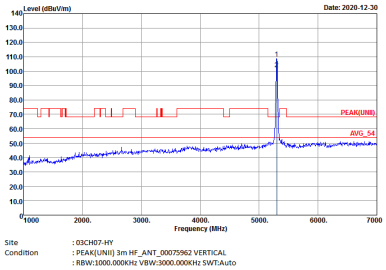
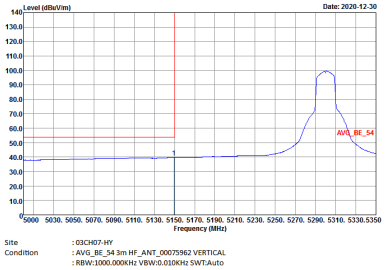
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

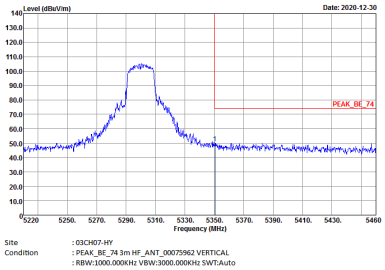
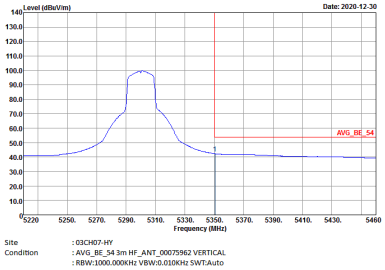
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

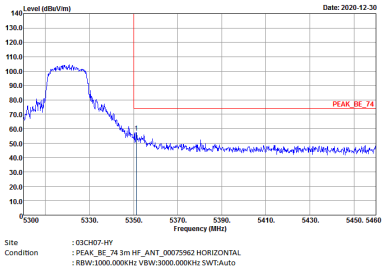
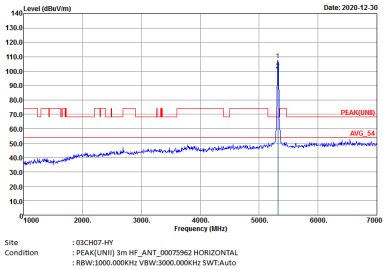
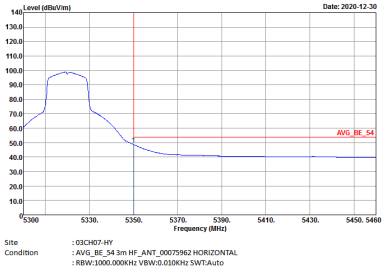
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

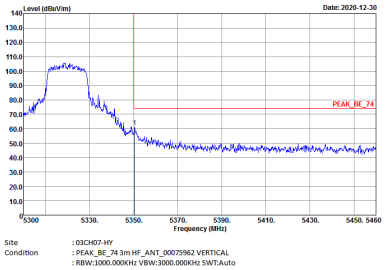
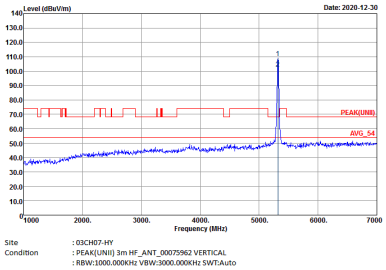
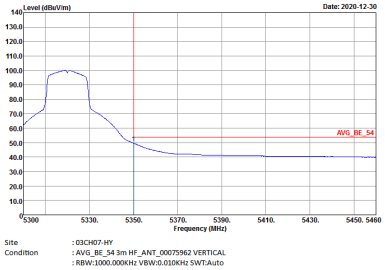
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

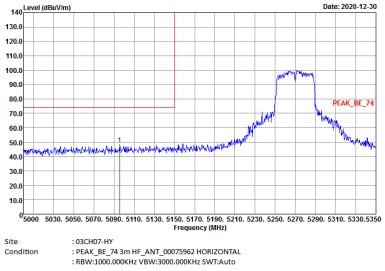
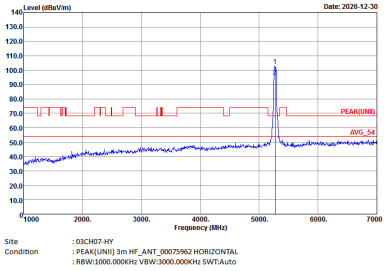
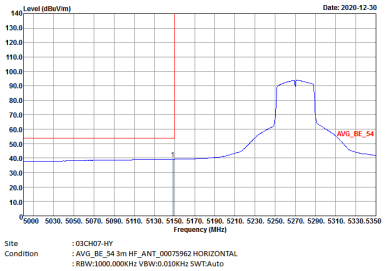
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

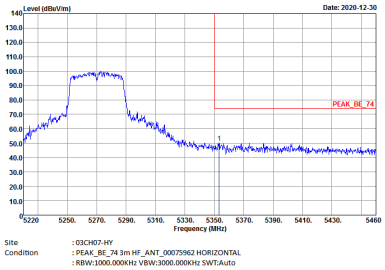
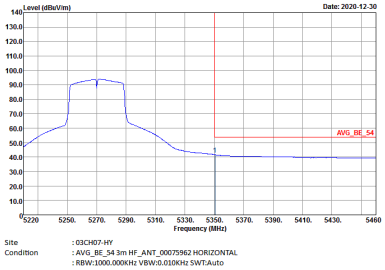
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

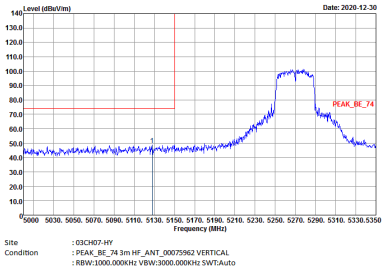
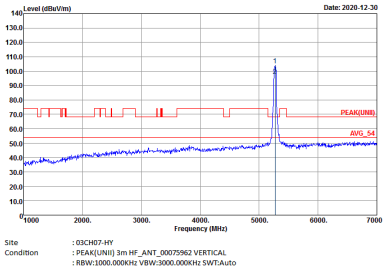
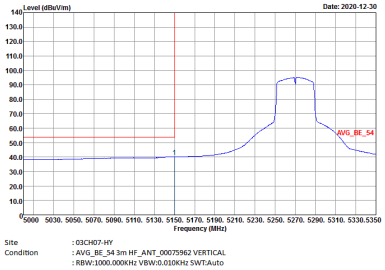
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

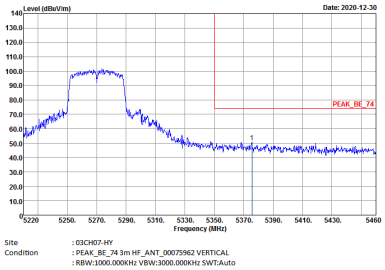
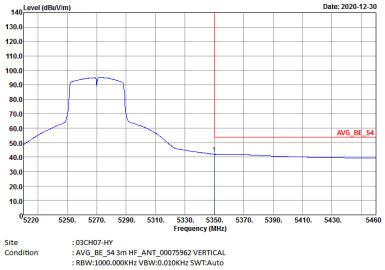
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

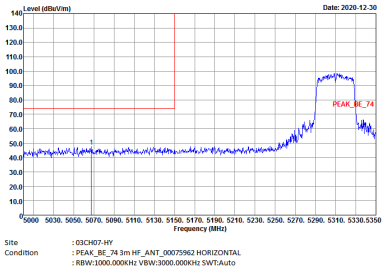
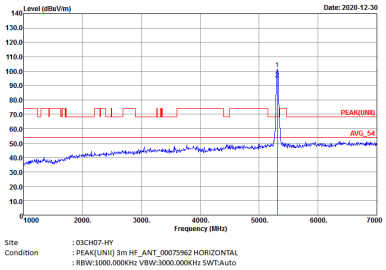
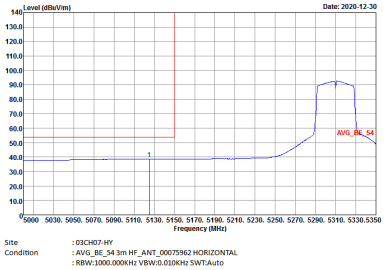
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

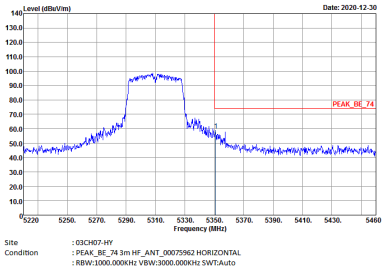
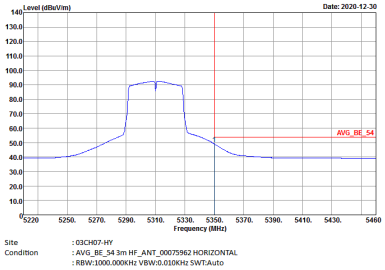
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

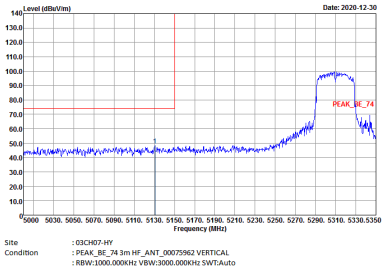
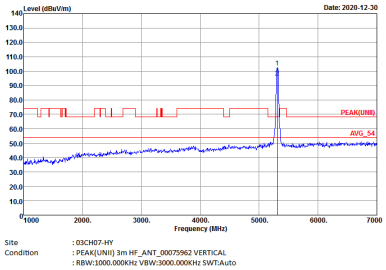
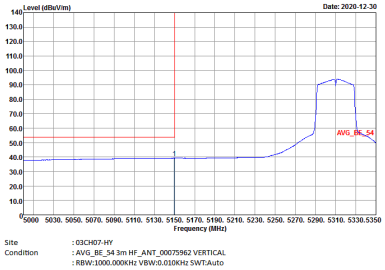
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

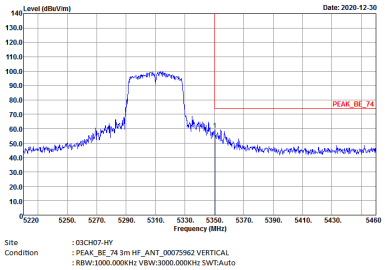
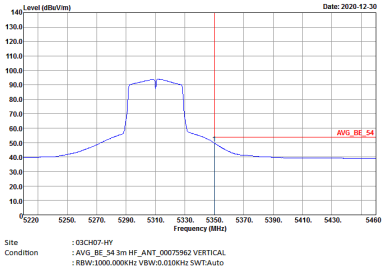
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Vertical	Vertical
Peak		
Avg.		Left blank

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

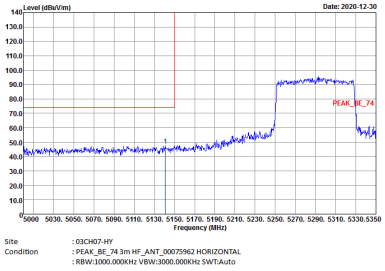
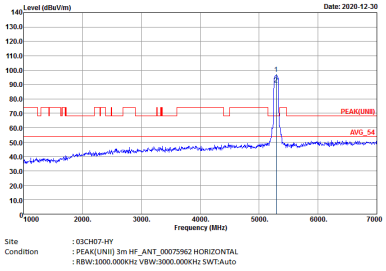
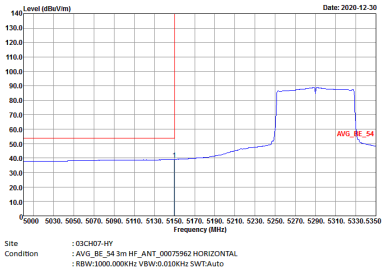
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

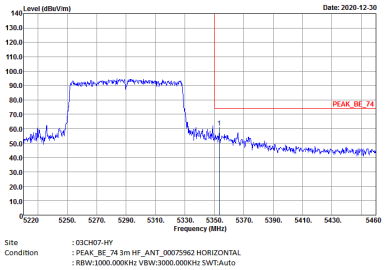
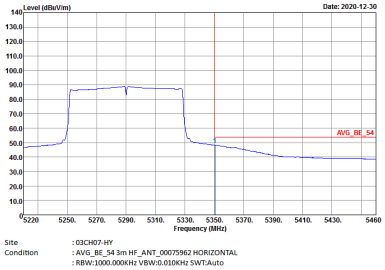
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

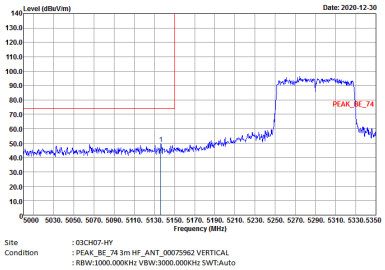
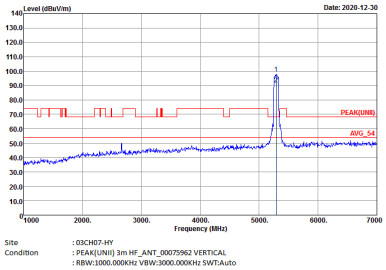
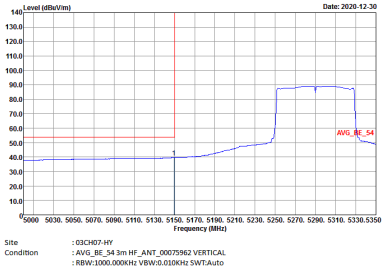
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

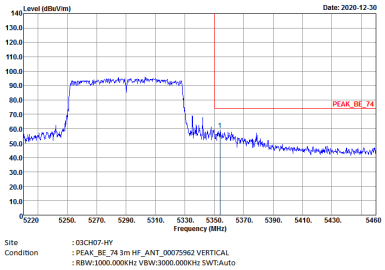
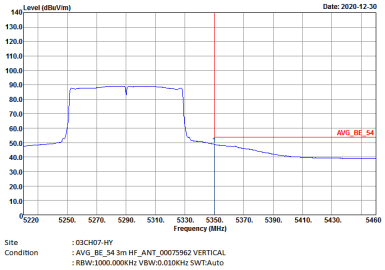
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

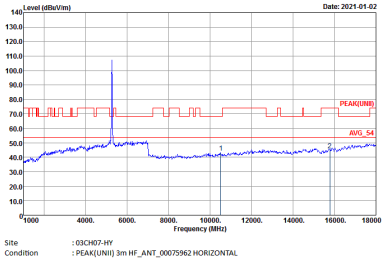
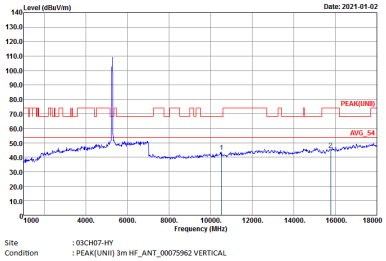
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

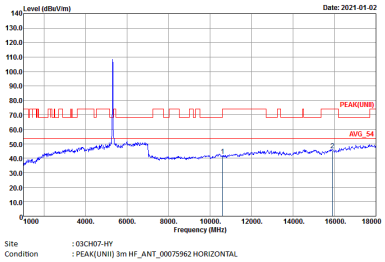
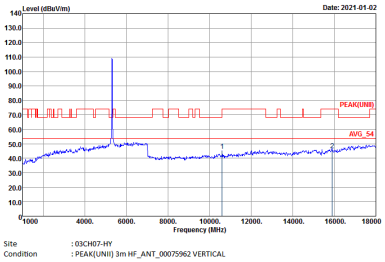
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

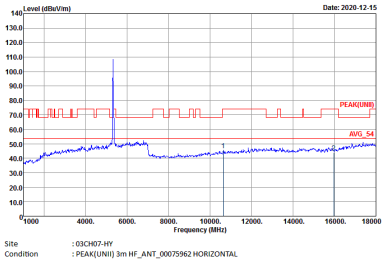
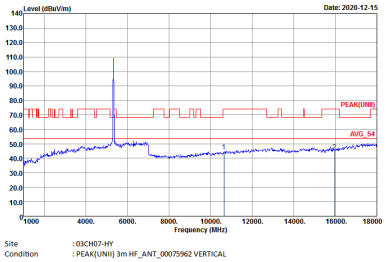
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

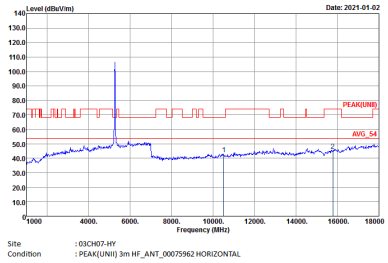
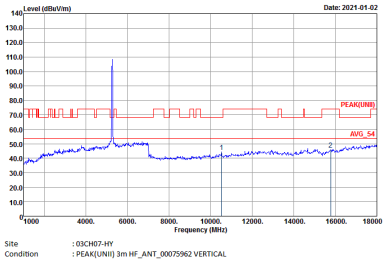
WIFI 802.11a (Harmonic @ 3m)

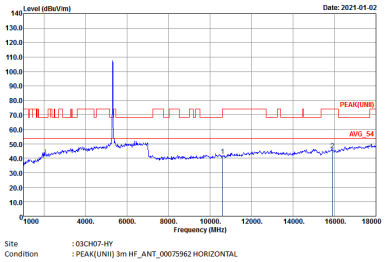
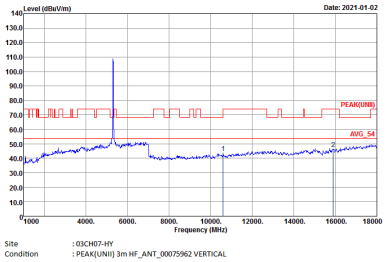
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

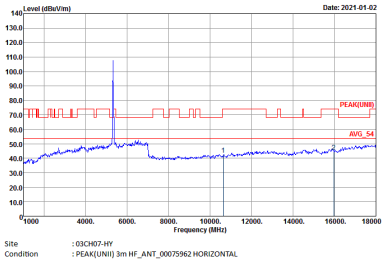
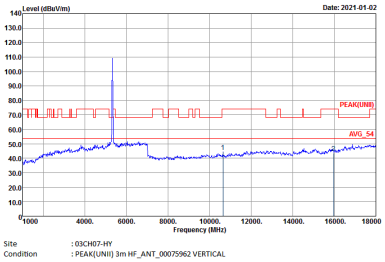
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

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

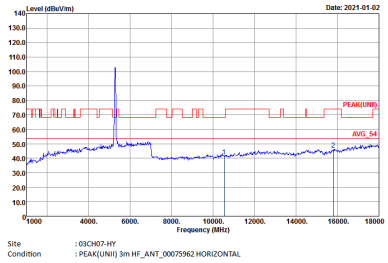
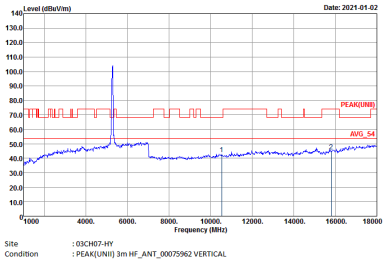
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

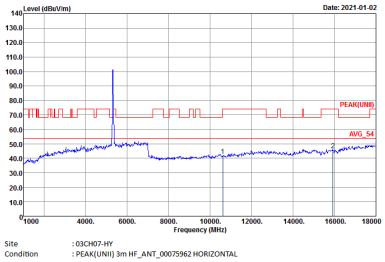
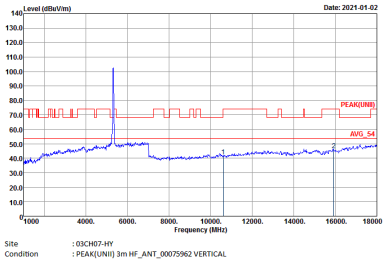
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

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

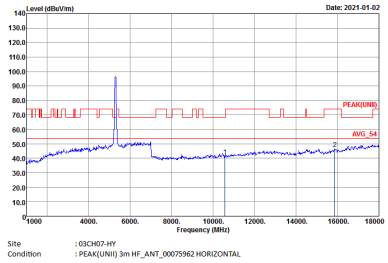
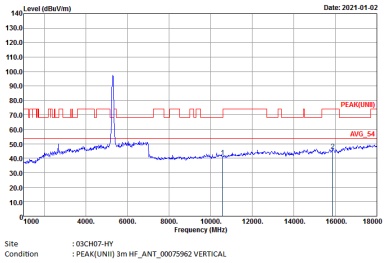
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

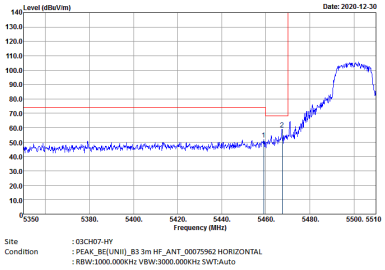
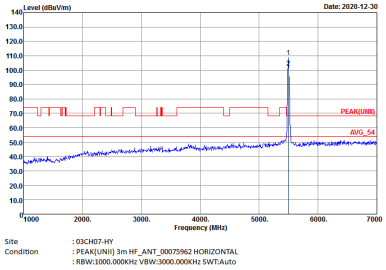
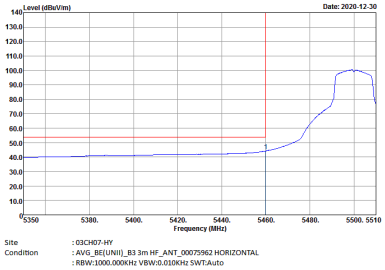
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.		

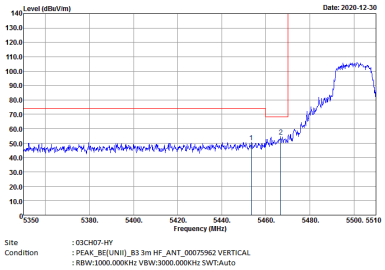
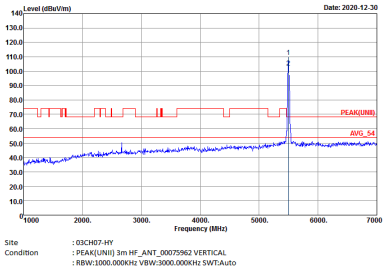
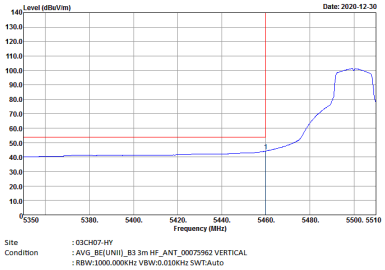
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

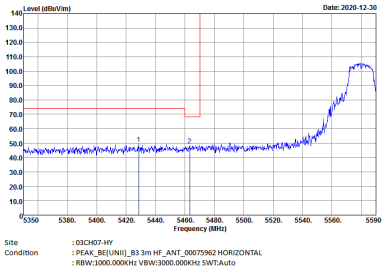
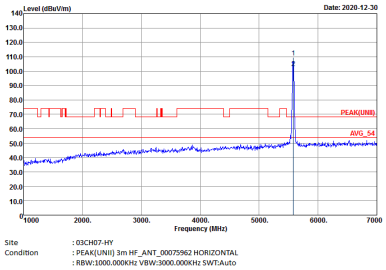
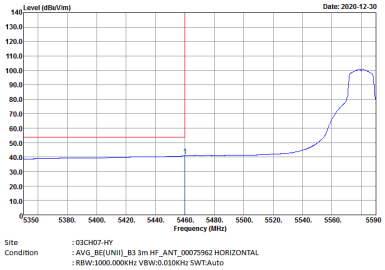
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1	Horizontal	Vertical
Peak Avg.		

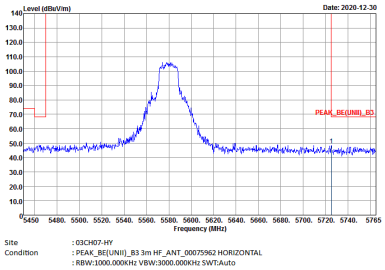
Band 3 - 5470~5725MHz

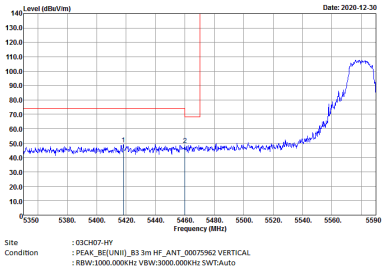
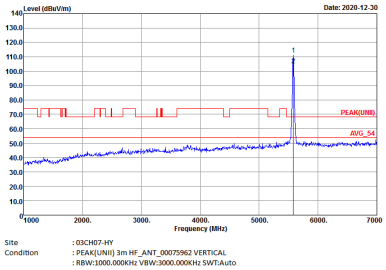
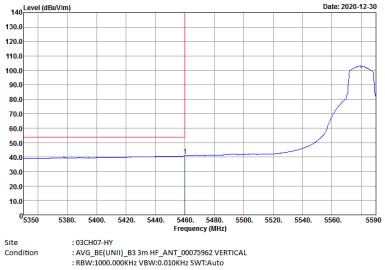
WIFI 802.11a (Band Edge @ 3m)

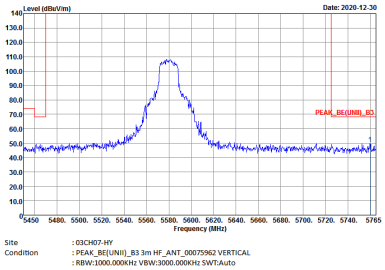
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

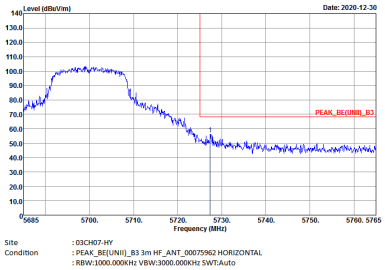
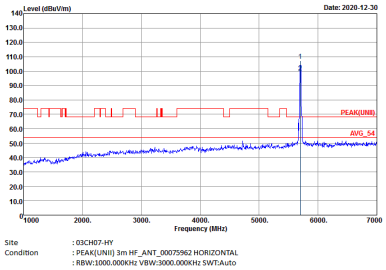
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

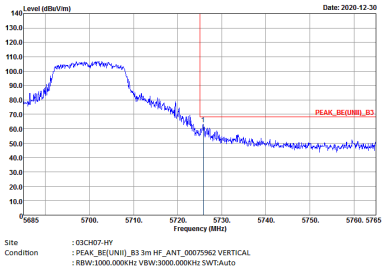
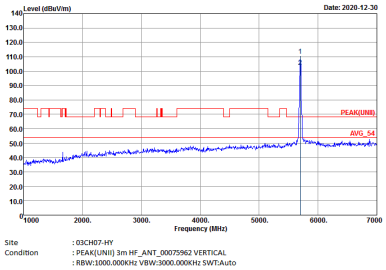
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

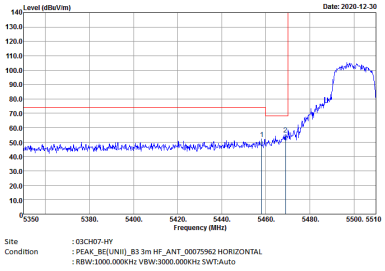
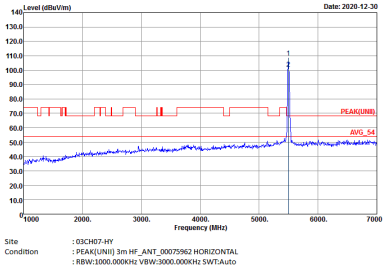
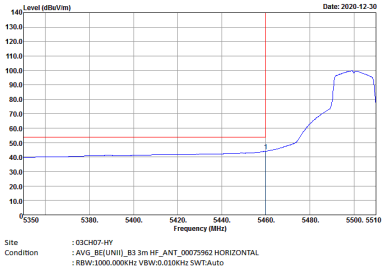
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

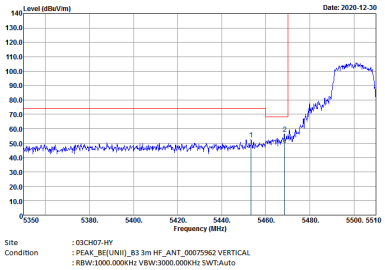
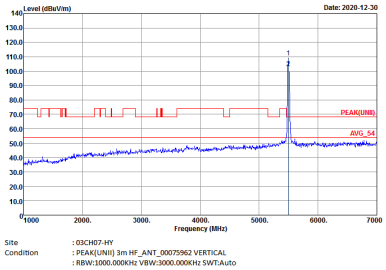
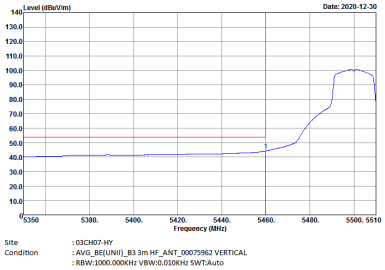
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

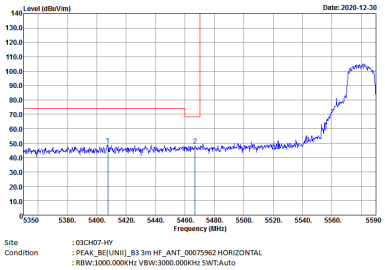
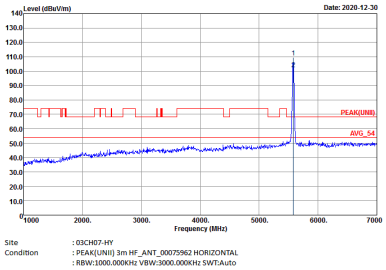
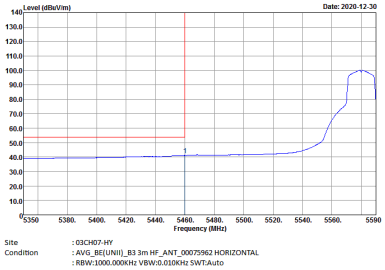
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

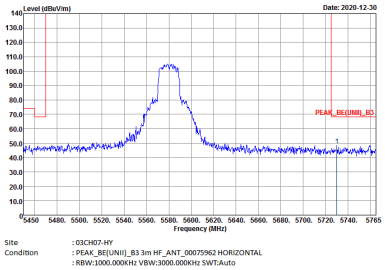
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		

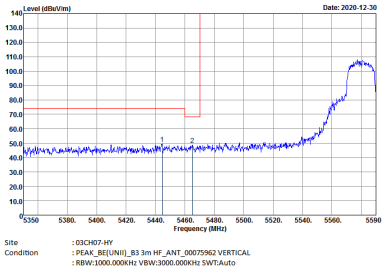
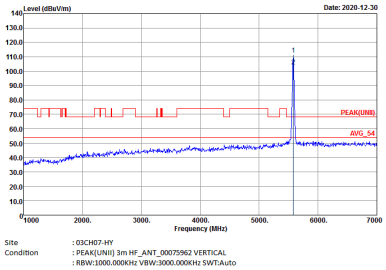
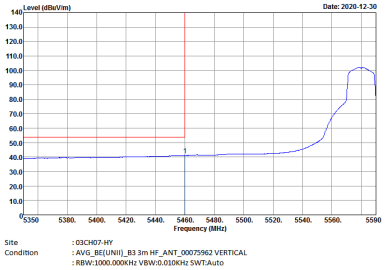
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

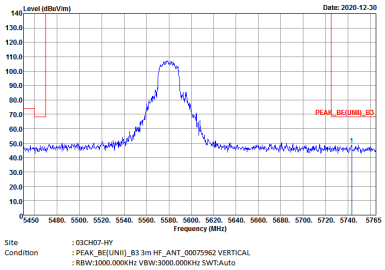
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

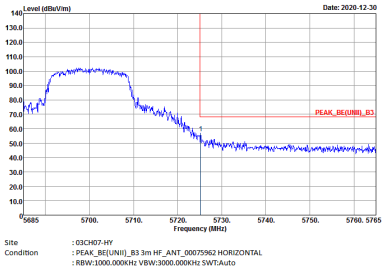
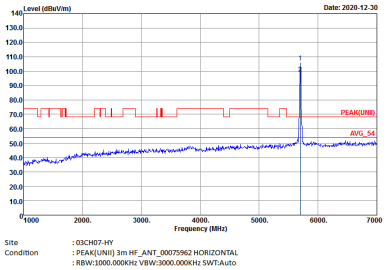
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

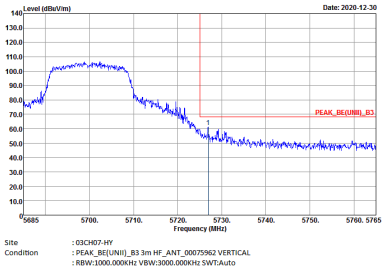
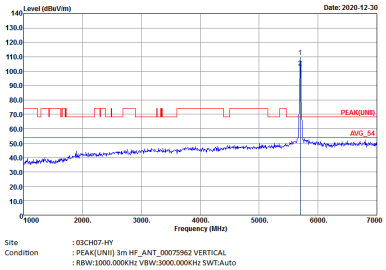
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

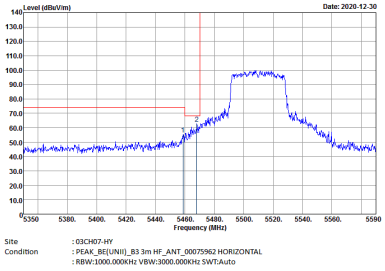
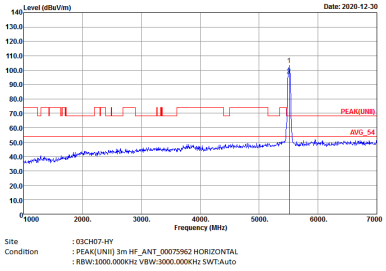
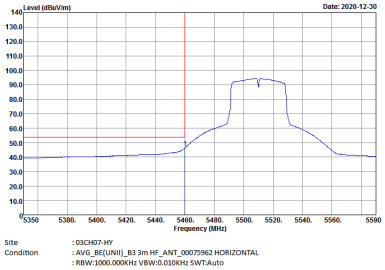
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

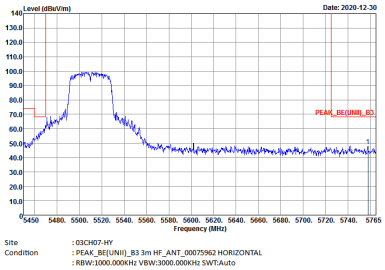
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

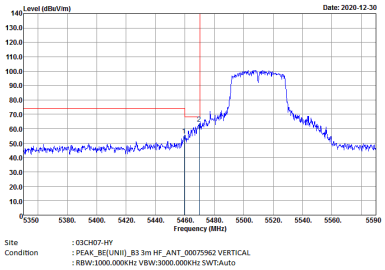
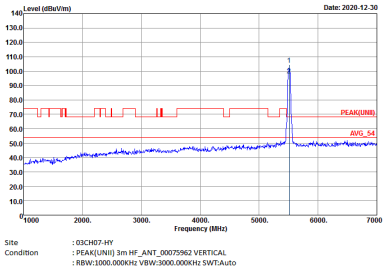
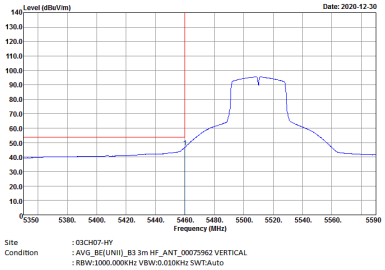
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

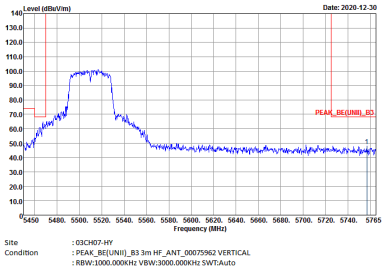
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

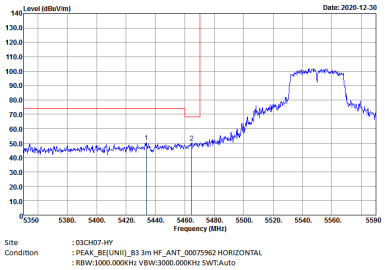
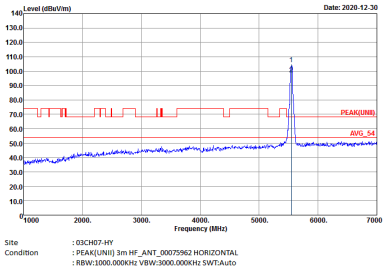
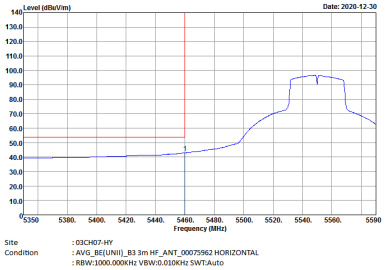
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

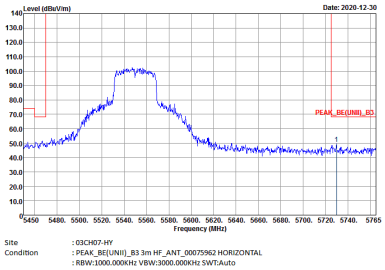
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

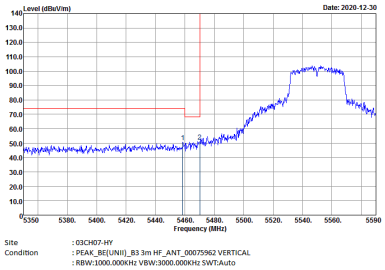
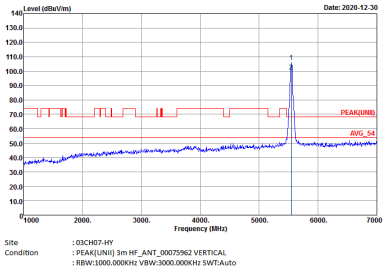
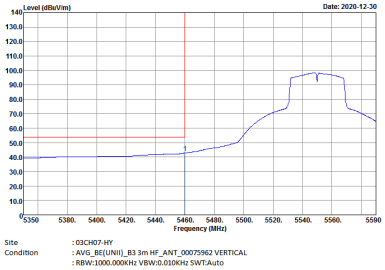
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

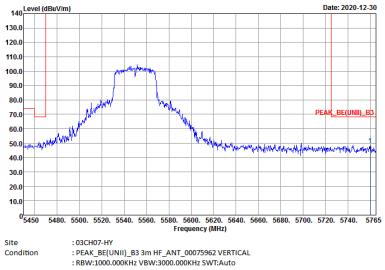
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

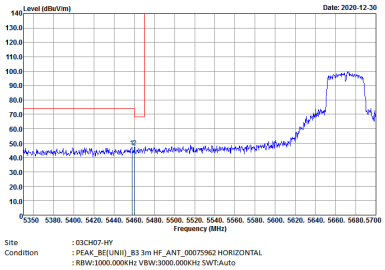
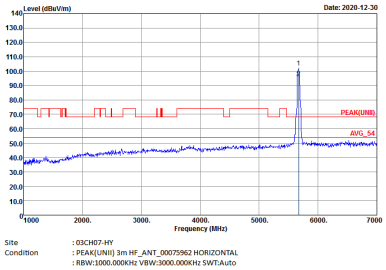
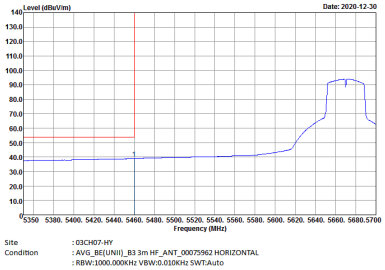
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank

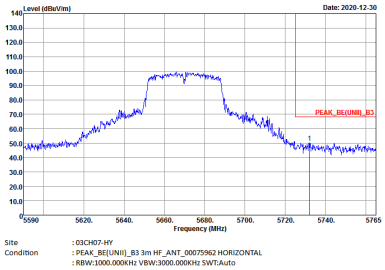
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

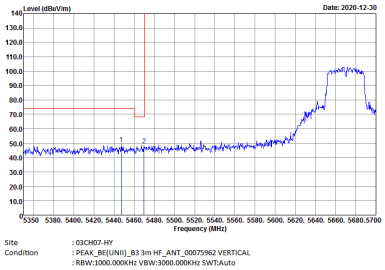
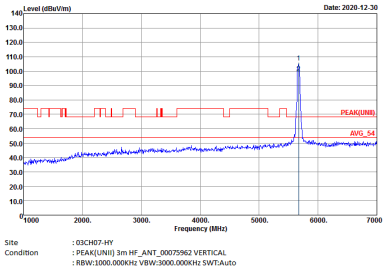
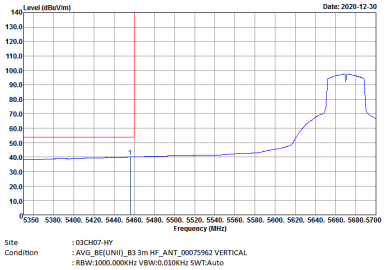
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

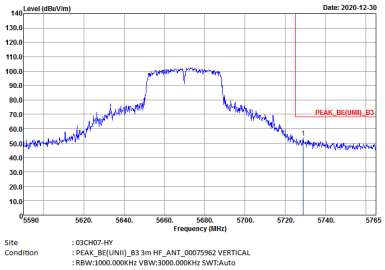
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

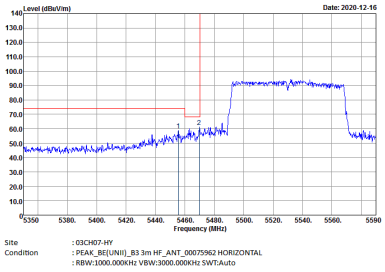
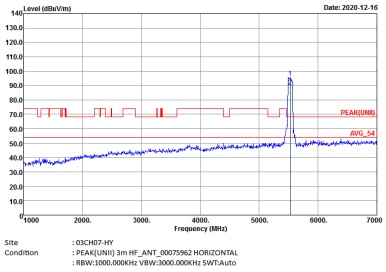
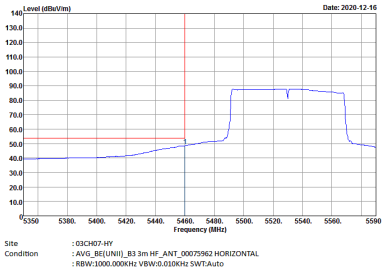
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

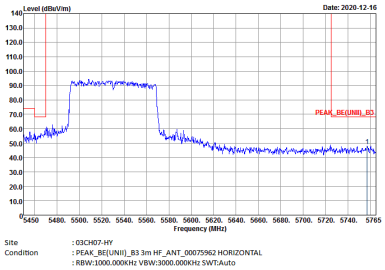
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

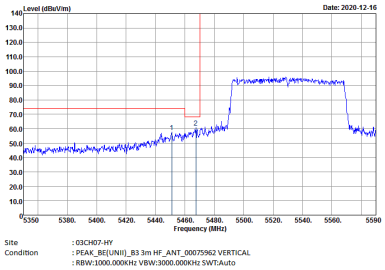
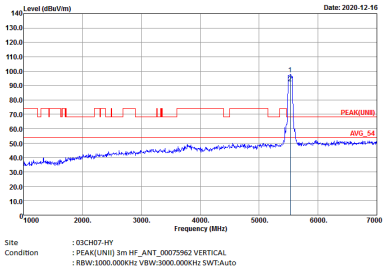
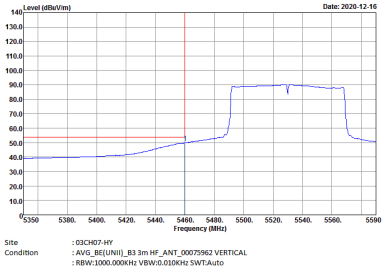
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

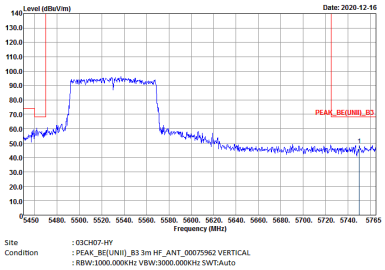
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak		Left blank

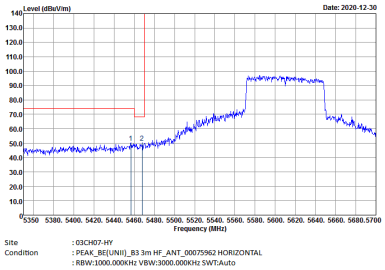
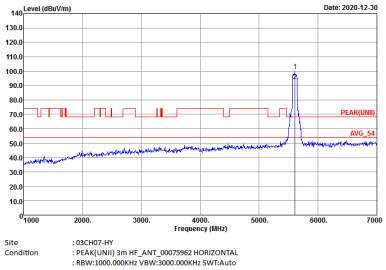
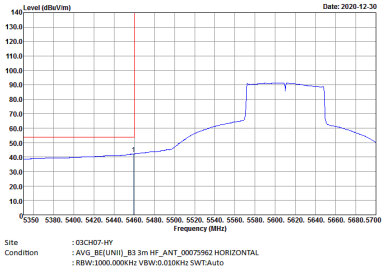
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

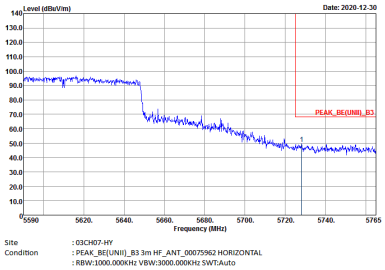
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

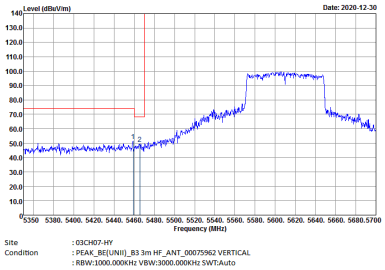
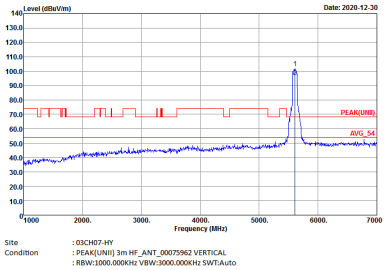
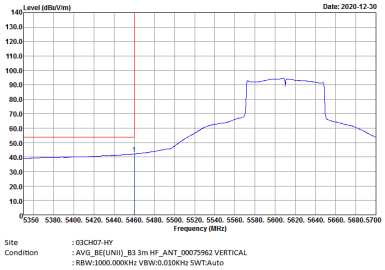
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

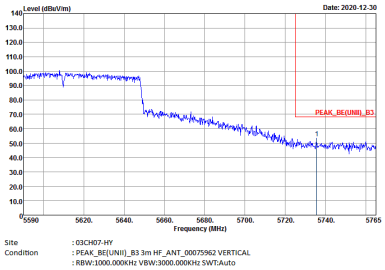
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

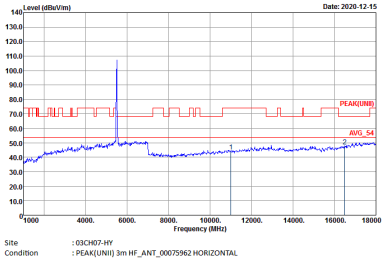
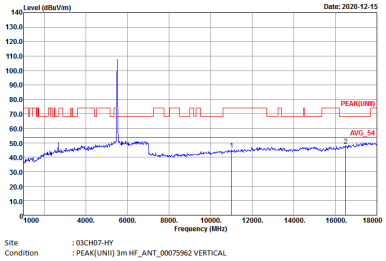
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

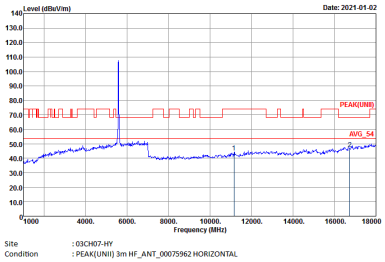
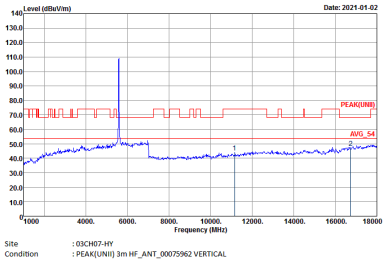
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

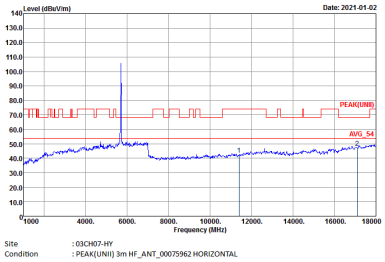
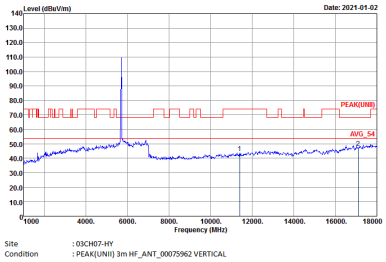
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

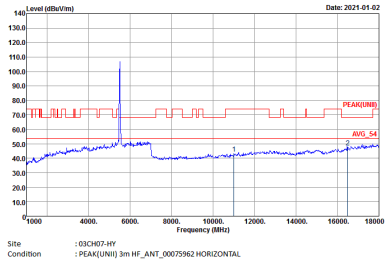
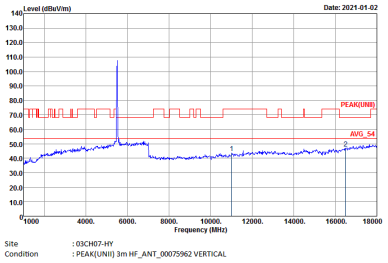
Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

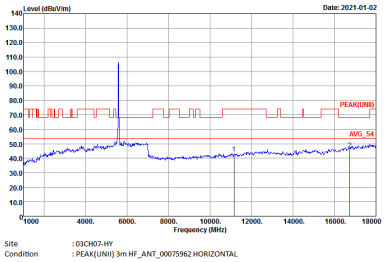
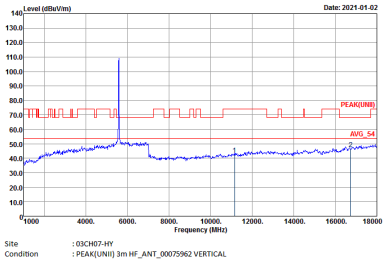
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

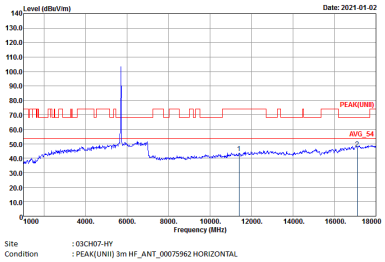
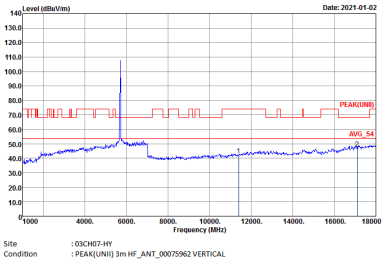
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

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

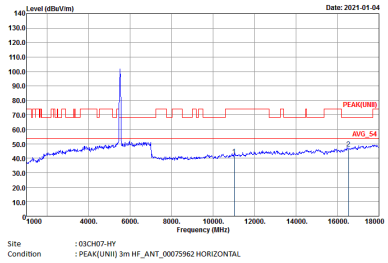
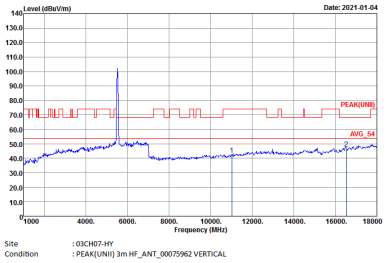
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

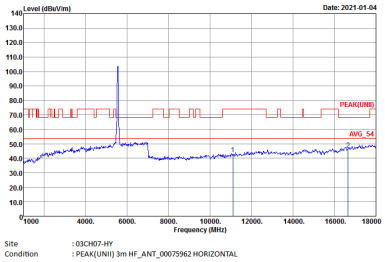
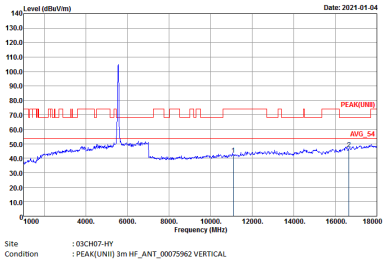
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

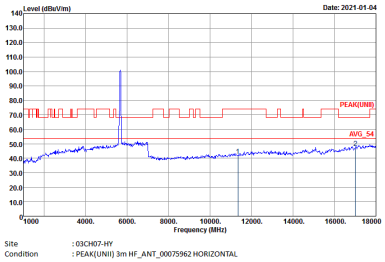
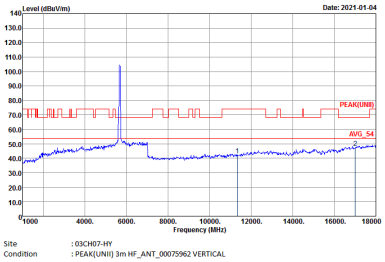
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

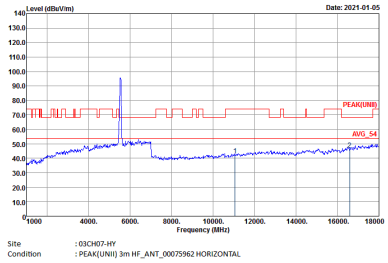
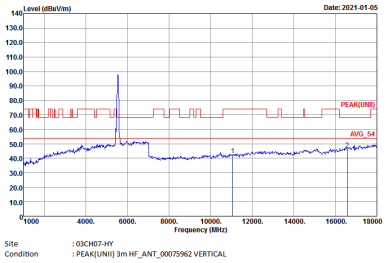
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.		

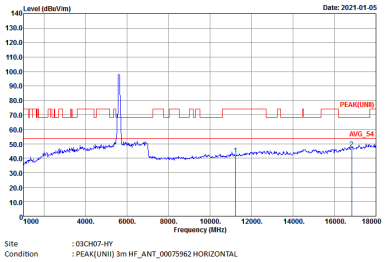
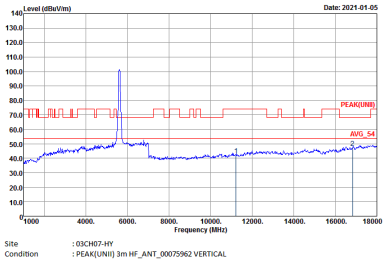
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1	Horizontal	Vertical
Peak Avg.		

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

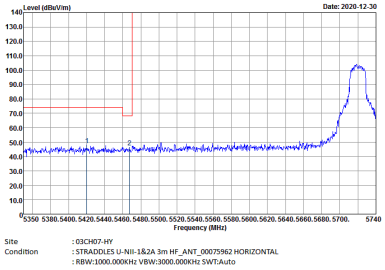
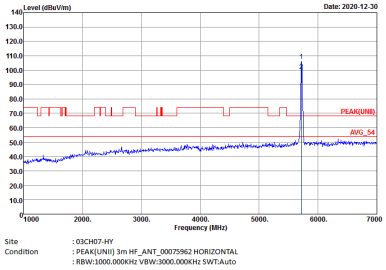
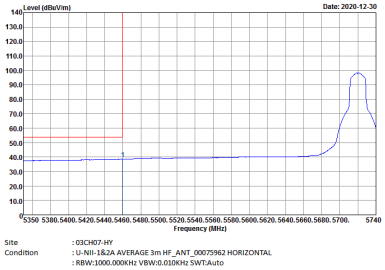
Band 3 5470~5725MHz

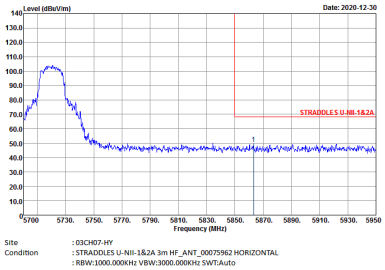
WIFI 802.11ac VHT80 (Harmonic @ 3m)

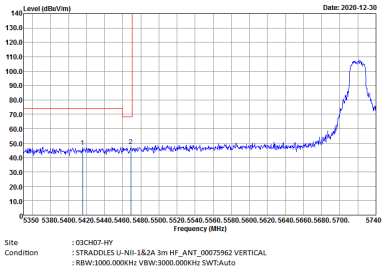
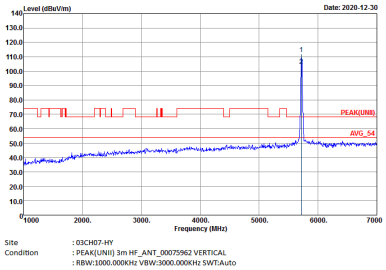
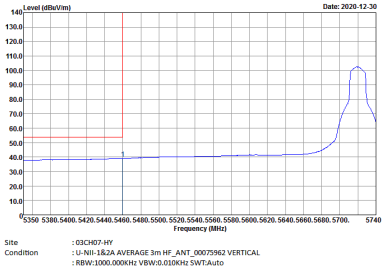
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1	Horizontal	Vertical
Peak Avg.		

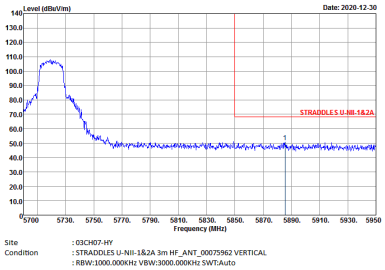
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1	Horizontal	Vertical
Peak Avg.		

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

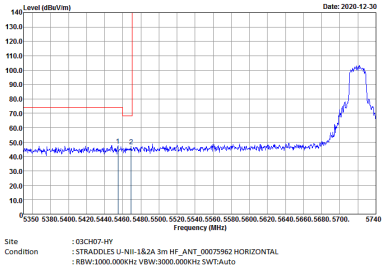
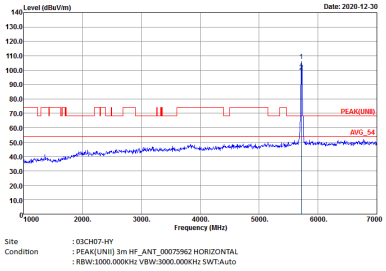
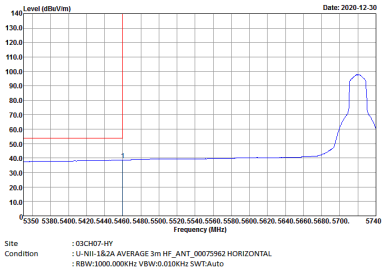
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

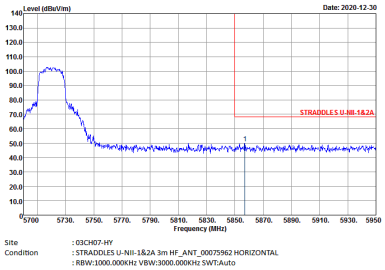
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

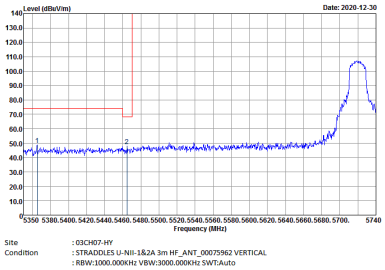
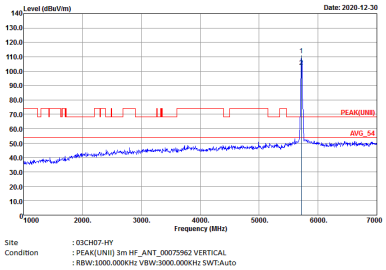
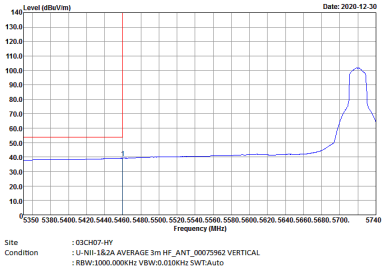
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

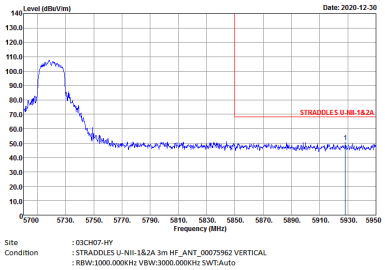
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

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

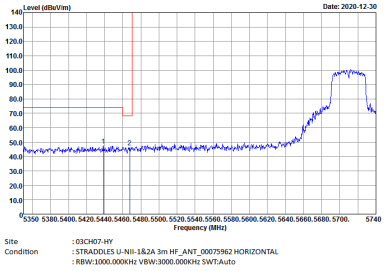
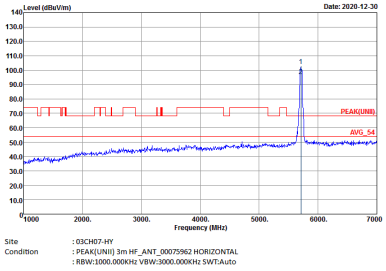
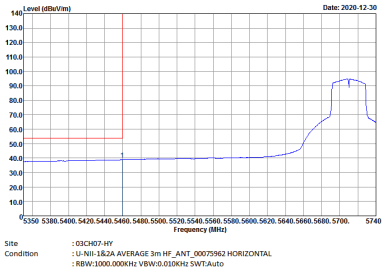
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

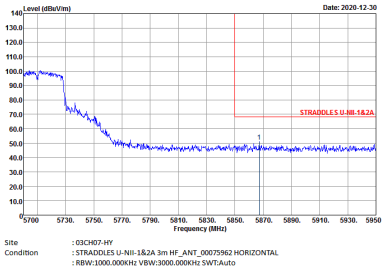
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

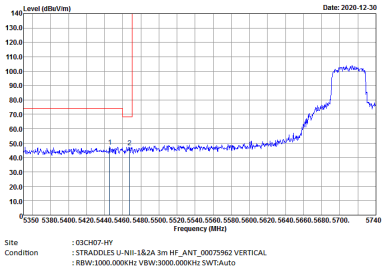
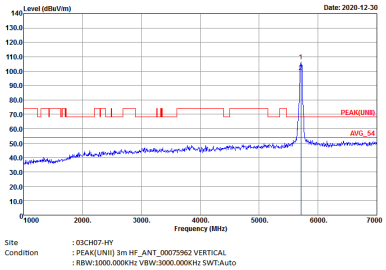
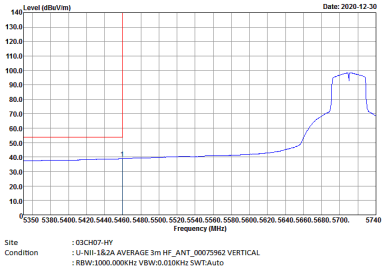
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

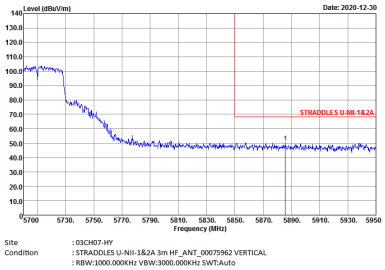
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

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

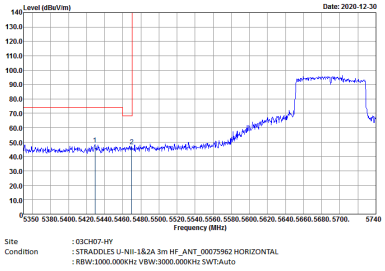
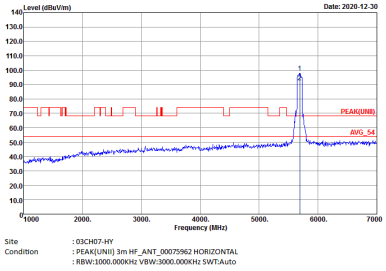
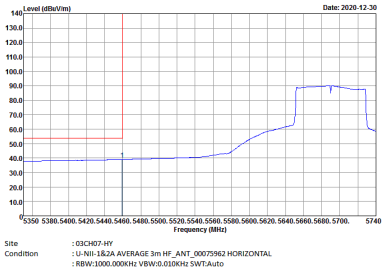
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

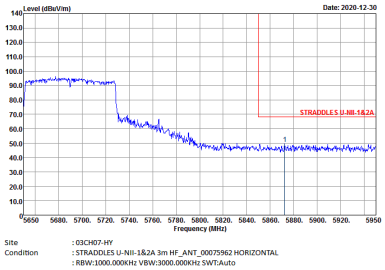
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

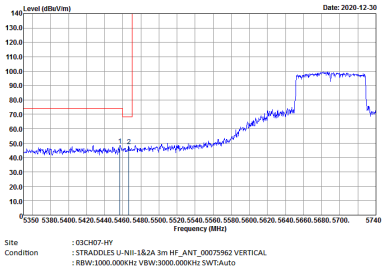
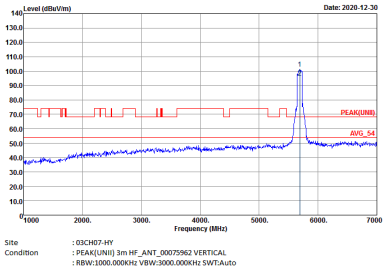
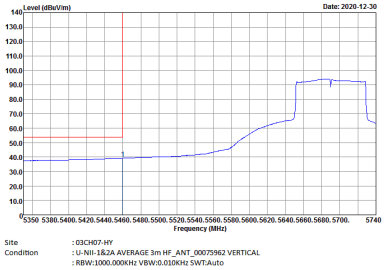
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

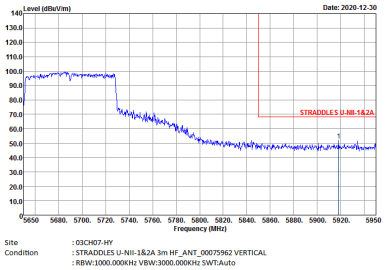
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

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

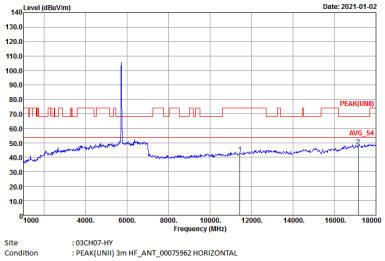
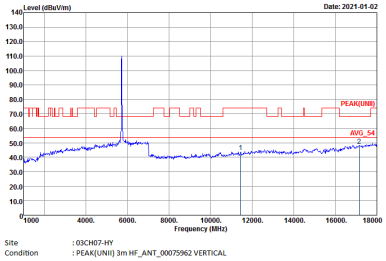
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

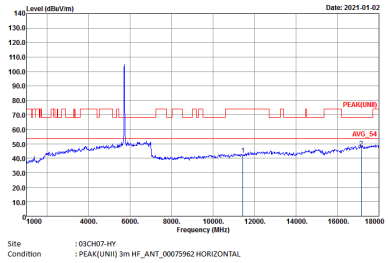
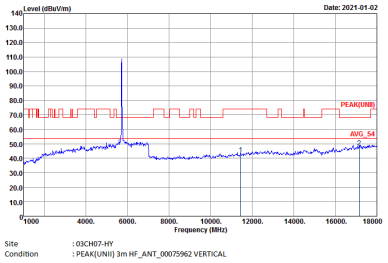
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

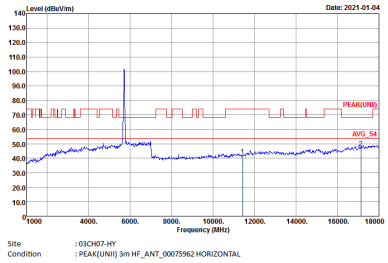
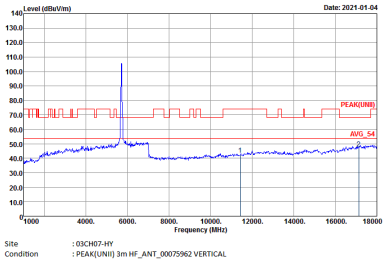
WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.		

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.		

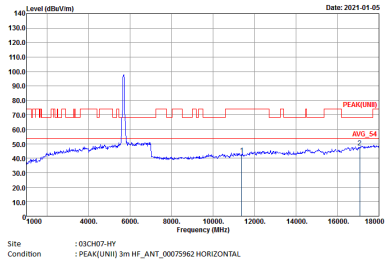
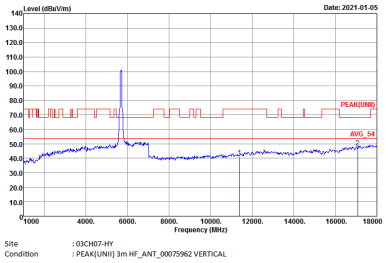
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

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

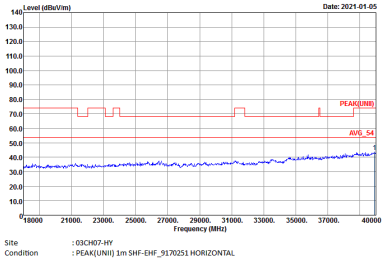
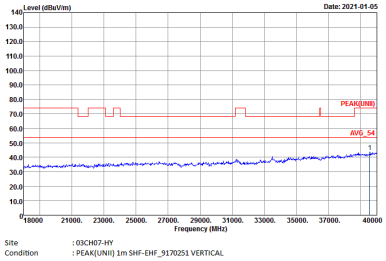
Band 3 – Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

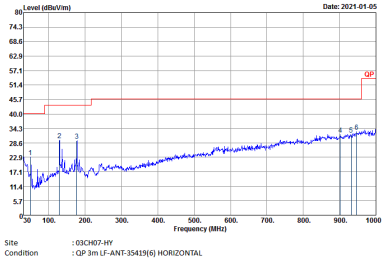
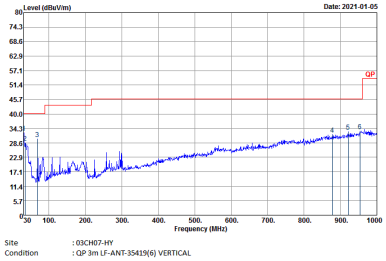
WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1	Horizontal	Vertical
Peak Avg.		

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

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

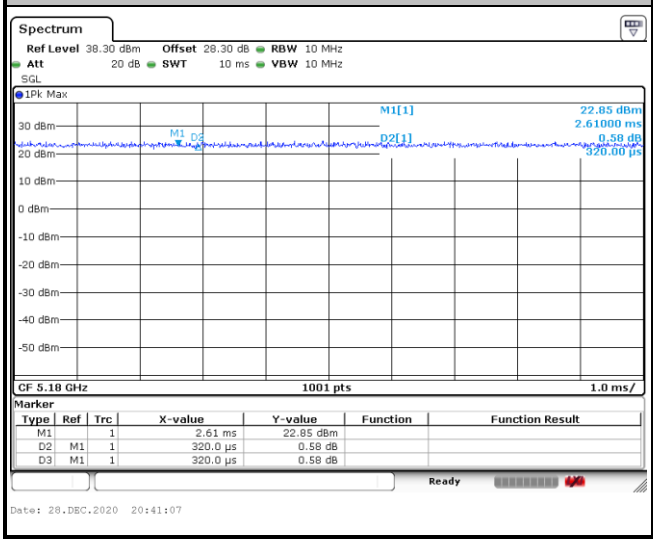
Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

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

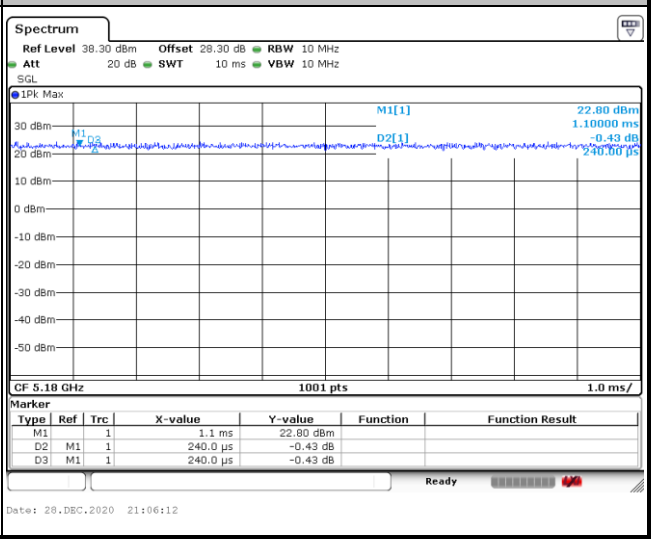
Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11a	100.00	-	-	10Hz	0.00
5GHz 802.11n HT20	100.00	-	-	10Hz	0.00
5GHz 802.11n HT40	100.00	-	-	10Hz	0.00
5GHz 802.11ac VHT80	100.00	-	-	10Hz	0.00

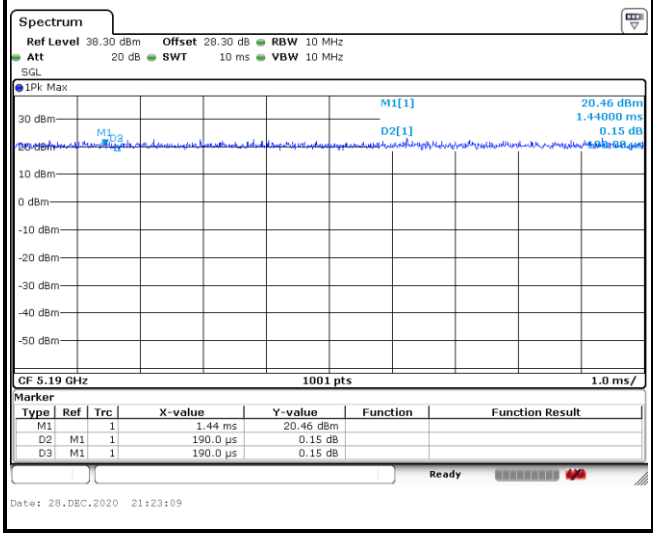
802.11a



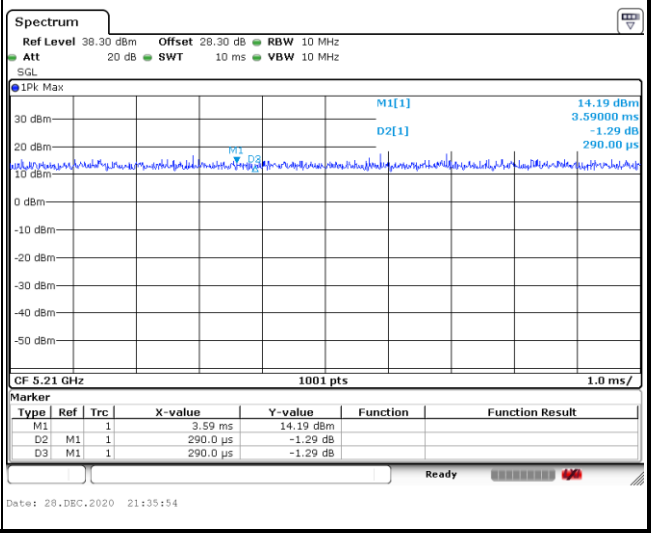
802.11n HT20



802.11n HT40



802.11ac VHT80



———THE END———