FCC RADIO TEST REPORT

FCC ID	:	**2AJ3Y-1013**
Equipment	:	**Wireless Game Controller**
Model Name	:	**T28B69**
Applicant	:	**Zippy Hippie Twister Limited Liability Company** **2000 Town Center, Suite 1900** **Southfield, MI 48075** **United States**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Oct. 31, 2019 and testing was started from Jan. 14, 2020 and completed on Feb. 20, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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
FR952805-03D	01	Initial issue of report	Feb. 21, 2020
FR952805-03D	02	Remove frequency and channel for 802.11n HT40, 802.11ac VHT40 and 802.11ac VHT80 in section 2.1.	Apr. 21, 2020

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: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Game Controller
Model Name	T28B69
FCC ID	2AJ3Y-1013
EUT supports Radios application	WLAN 11a/b/g/n HT20 WLAN 11ac VHT20 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel 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 : 16.50 dBm / 0.0447 W 802.11n HT20 : 16.40 dBm / 0.0437 W 802.11ac VHT20: 16.30 dBm / 0.0427 W **<5260 MHz ~ 5320 MHz>** 802.11a : 15.80 dBm / 0.0380 W 802.11n HT20 : 15.50 dBm / 0.0355 W 802.11ac VHT20: 15.40 dBm / 0.0347 W **<5500 MHz ~ 5720 MHz >** 802.11a : 15.30 dBm / 0.0339 W 802.11n HT20 : 15.20 dBm / 0.0331 W 802.11ac VHT20: 15.10 dBm / 0.0324 W
99% Occupied Bandwidth	802.11a : 17.28 MHz 802.11n HT20 : 18.48 MHz
Antenna Gain / Gain	**<5180 MHz ~ 5240 MHz>** Stamped PIFA Antenna with gain 5.47 dBi **<5260 MHz ~ 5320 MHz>** Stamped PIFA Antenna with gain 5.75 dBi **<5500 MHz ~ 5720 MHz >** Stamped PIFA Antenna with gain 5.75 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

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

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. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	-	-	-	-
	40	5200	48	5240
	-	-		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	-	-	-	-
	56	5280	64	5320
	-	-		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	-	-	116	5580
	104	5520	132	5660
	-	-	-	-
	108	5540	136	5680
	-	-	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	-	-	124	5620
	120	5600	-	-
	-	-	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	-	-	144	5720
	-	-		

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**
802.11ac VHT20 (Covered by HT20)	**MCS0**

Test Cases	
AC Conducted Emission	Mode 1 : USB-C Power from AC Adapter + WLAN (5GHz) Link + Bluetooth Link + Motor 100% + Audio USB Stream to Headphone

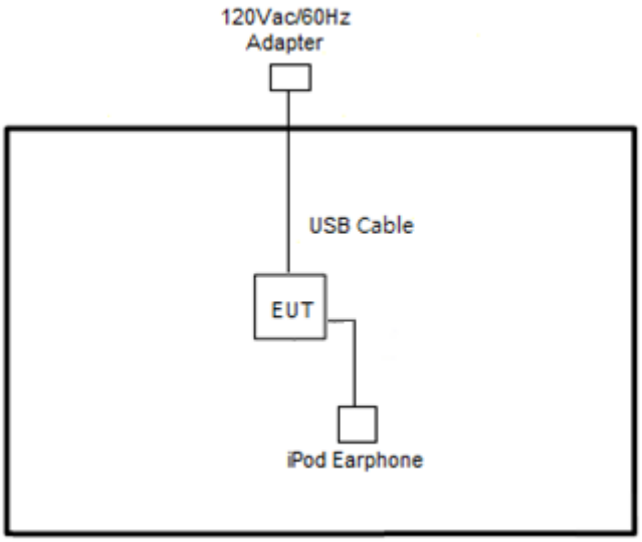
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

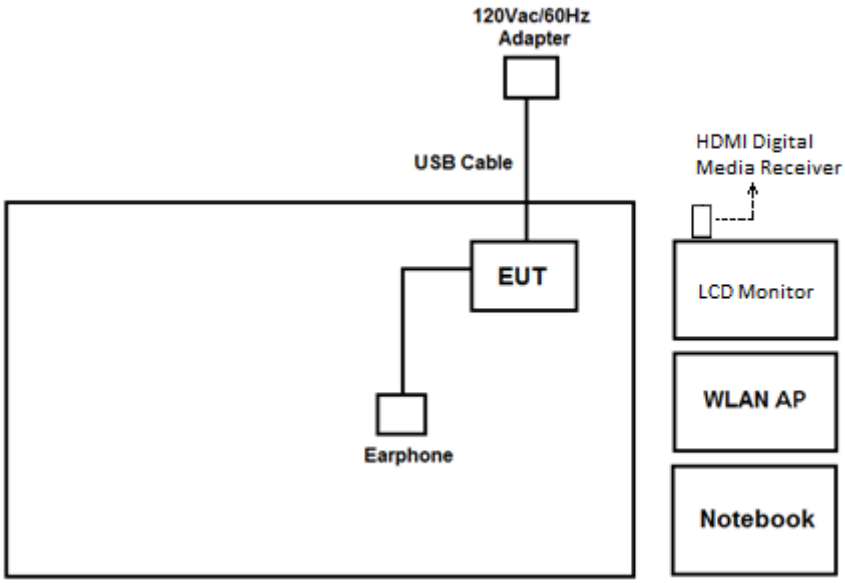
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

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	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	Dell	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	LCD Monitor	SONY	KD-55X8500D	FCC DoC	Shielded, 1.6m	Unshielded,1.8m
4.	HDMI Digital Media Receiver	N/A	E9L29Y	2AQIQ-6247	N/A	Unshielded, 1.5 m
5.	Earphone	N/A	N/A	N/A	Unshielded, 1.15 m	N/A
6.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "Compliance tool V1.0.0.57" 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.

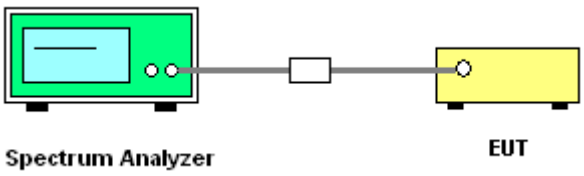
3.1.2 Measuring Instruments

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.

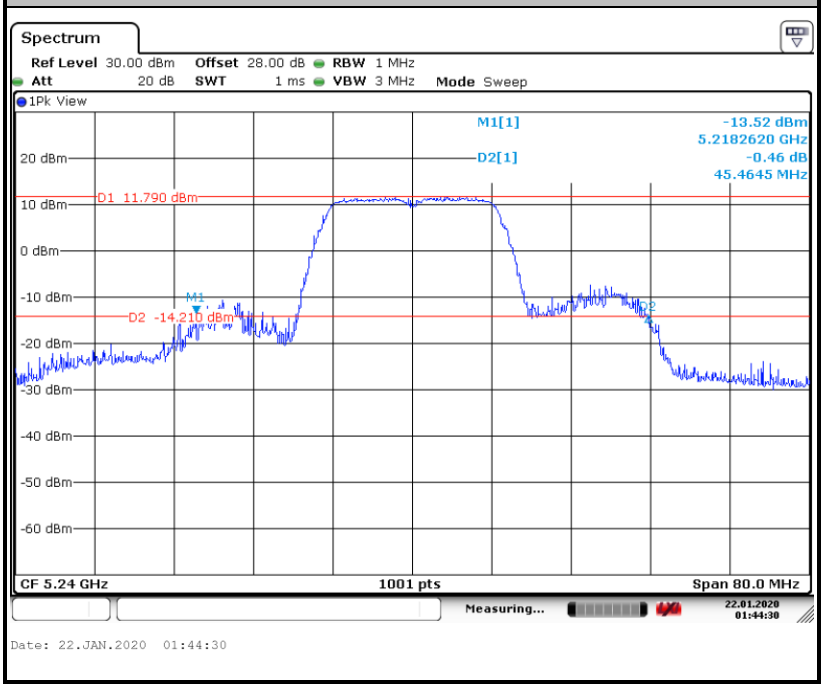
3.1.4 Test Setup



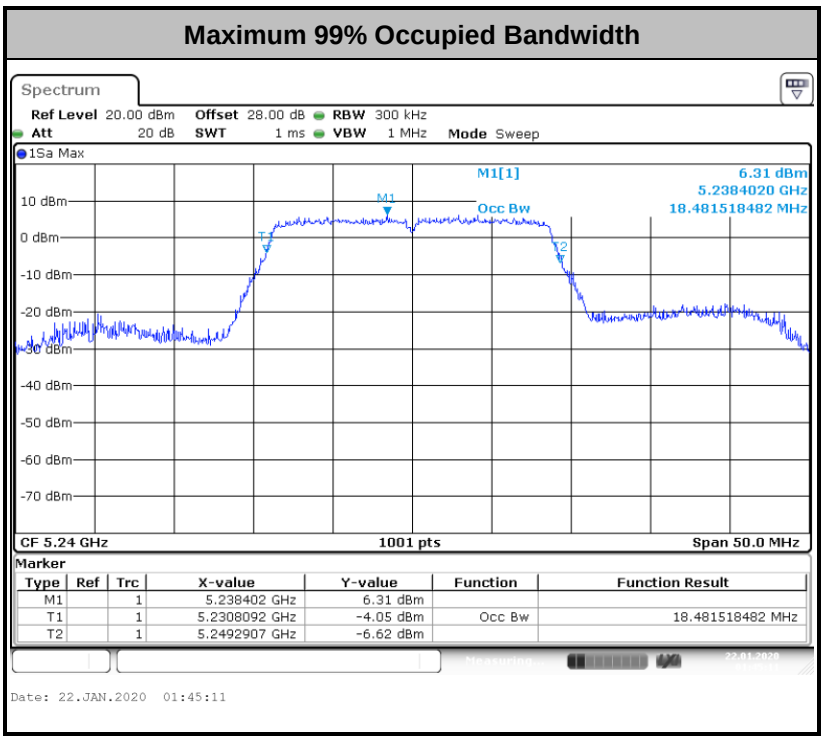
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

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

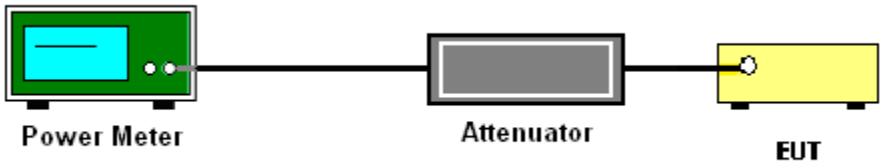
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using an 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.

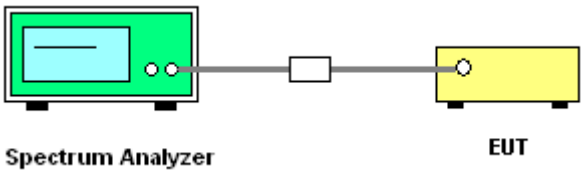
 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- 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 = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

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.

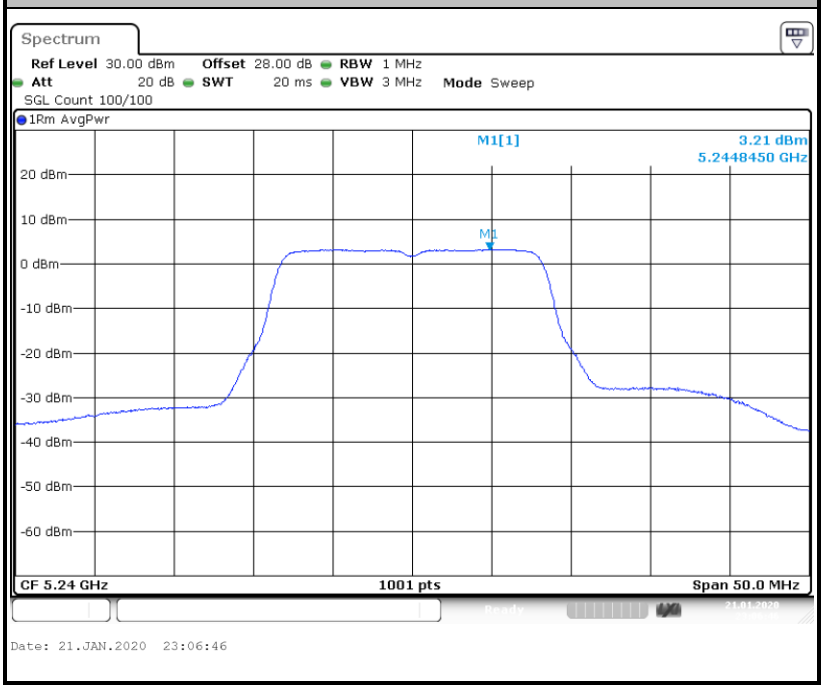
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



Note: Average Power Density (dB) = Measured value+ Duty Factor

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

   Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

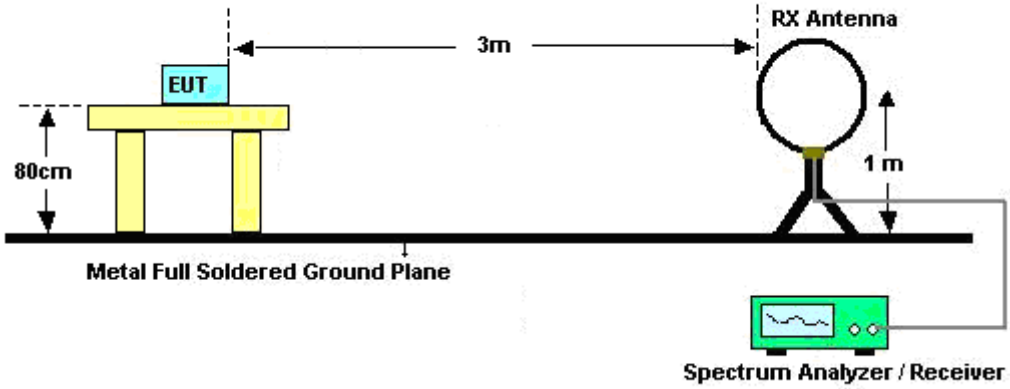
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

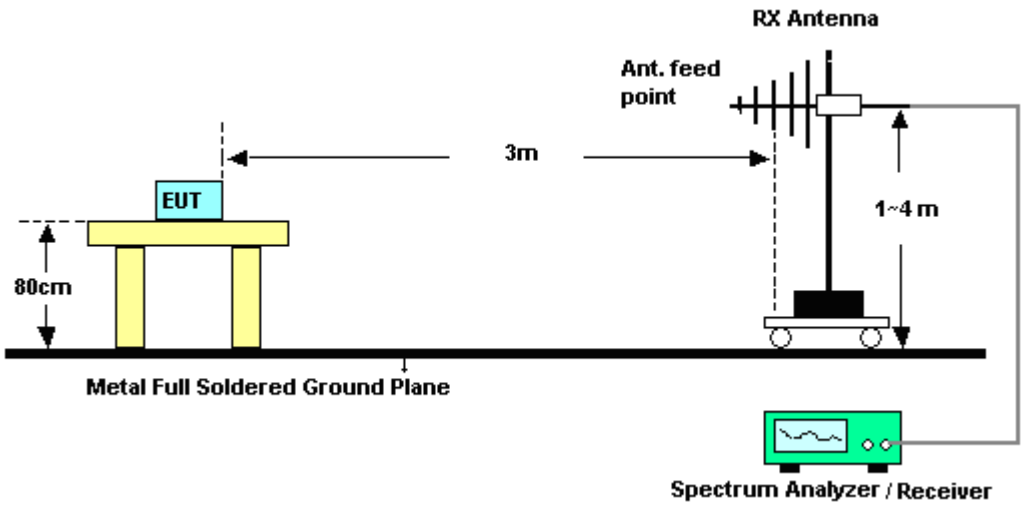
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

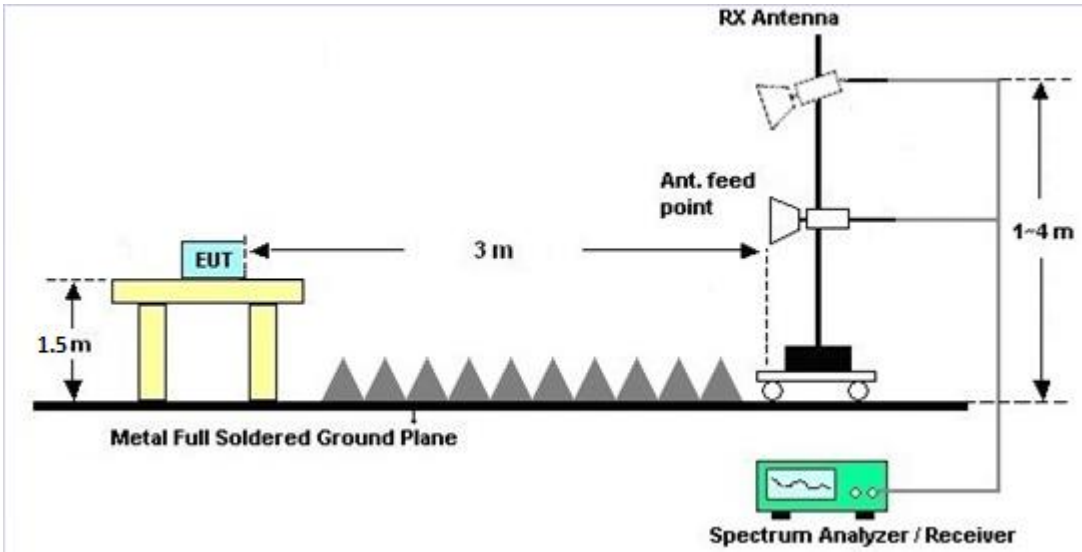
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

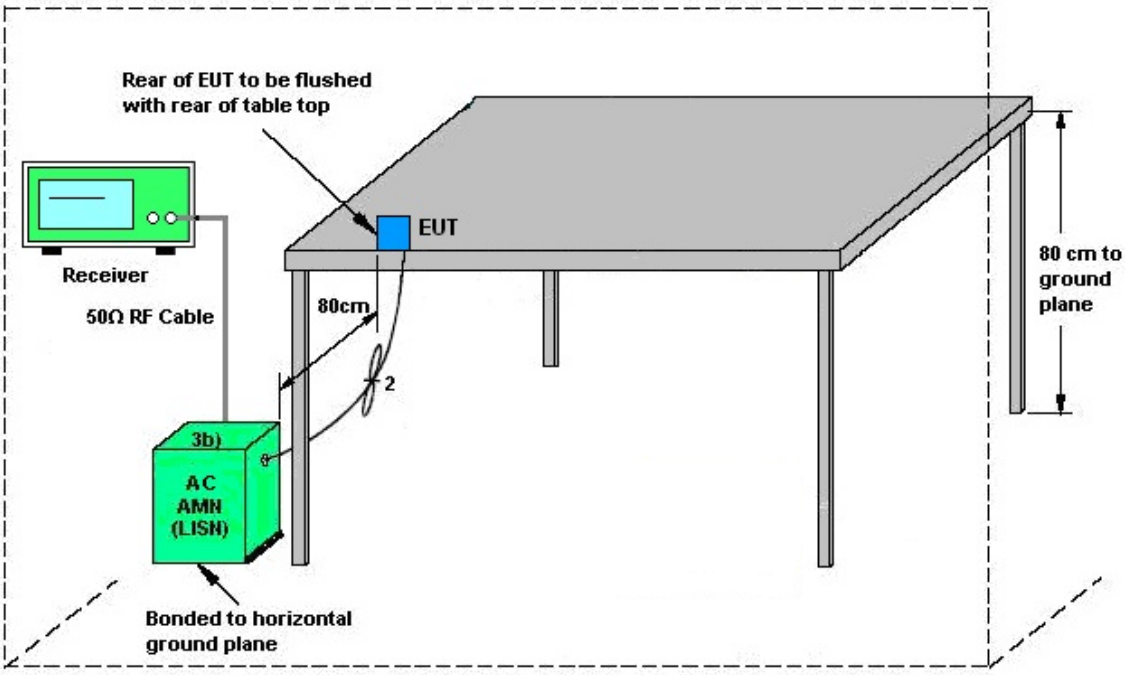
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN 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	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Jan. 21, 2020~ Jan. 22, 2020	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 23, 2019	Jan. 21, 2020~ Jan. 22, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Jul. 15, 2019	Jan. 21, 2020~ Jan. 22, 2020	Jul. 14, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Jan. 21, 2020~ Jan. 22, 2020	Mar. 26, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 14, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Feb. 14, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 19, 2019	Feb. 14, 2020	Mar. 18, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Feb. 14, 2020	Nov. 19, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Feb. 14, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Feb. 14, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Feb. 14, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 30, 2019	Jan. 14, 2020~ Jan. 22, 2020	Apr. 29, 2020	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Jan. 14, 2020~ Jan. 22, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 10, 2020	Jan. 14, 2020~ Jan. 22, 2020	Jan. 09, 2021	Radiation (03CH07-HY)
Hygrometer	Testo	HTC-2	1	N/A	Jun. 17, 2019	Jan. 14, 2020~ Jan. 22, 2020	Jun. 16, 2020	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Jan. 14, 2020~ Jan. 22, 2020	Dec. 25, 2020	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 24, 2019	Jan. 14, 2020~ Jan. 22, 2020	Apr. 23, 2020	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 20, 2019	Jan. 14, 2020~ Jan. 22, 2020	May 19, 2020	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 01, 2019	Jan. 14, 2020~ Jan. 22, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 26, 2019	Jan. 14, 2020~ Jan. 22, 2020	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 26, 2019	Jan. 14, 2020~ Jan. 22, 2020	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 26, 2019	Jan. 14, 2020~ Jan. 22, 2020	Feb. 25, 2020	Radiation (03CH07-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Jan. 14, 2020~ Jan. 22, 2020	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208368	Control Ant Mast	N/A	Jan. 14, 2020~ Jan. 22, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jan. 14, 2020~ Jan. 22, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jan. 14, 2020~ Jan. 22, 2020	N/A	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2019	Jan. 14, 2020~ Jan. 22, 2020	May 13, 2020	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Apr. 02, 2019	Jan. 14, 2020~ Jan. 22, 2020	Apr. 01, 2020	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Jan. 14, 2020~ Jan. 22, 2020	N/A	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 26, 2019	Jan. 14, 2020~ Jan. 22, 2020	Feb. 25, 2020	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Jan. 14, 2020~ Jan. 22, 2020	Dec. 12, 2020	Radiation (03CH07-HY)
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 27, 2019	Feb. 20, 2020	Aug. 26, 2020	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))	2.0

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.6

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

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

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

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Luffy Lin/Richard Qiu	Temperature:	21~25	°C
Test Date:	2020/01/21~2020/01/22	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	17.08	-	22.78	-	-		22.33	-		
11a	6Mbps	1	44	5220	17.28	-	33.32	-	-		22.38	-		
11a	6Mbps	1	48	5240	17.23	-	32.47	-	-		22.36	-		
HT20	MCS0	1	36	5180	18.13	-	31.76	-	-		22.58	-		
HT20	MCS0	1	44	5220	18.43	-	44.97	-	-		22.66	-		
HT20	MCS0	1	48	5240	18.48	-	45.47	-	-		22.67	-		

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	14.80	-		24.00	-	5.47	-		Pass
11a	6Mbps	1	44	5220	16.50	-		24.00	-	5.47	-		Pass
11a	6Mbps	1	48	5240	16.40	-		24.00	-	5.47	-		Pass
HT20	MCS0	1	36	5180	14.60	-		24.00	-	5.47	-		Pass
HT20	MCS0	1	44	5220	16.20	-		24.00	-	5.47	-		Pass
HT20	MCS0	1	48	5240	16.40	-		24.00	-	5.47	-		Pass
VHT20	MCS0	1	36	5180	14.50	-		24.00	-	5.47	-		Pass
VHT20	MCS0	1	44	5220	16.10	-		24.00	-	5.47	-		Pass
VHT20	MCS0	1	48	5240	16.30	-		24.00	-	5.47	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I single antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.06	-	1.83	-		11.00	-	5.47	-		Pass
11a	6Mbps	1	44	5220	0.06	-	3.02	-		11.00	-	5.47	-		Pass
11a	6Mbps	1	48	5240	0.06	-	3.27	-		11.00	-	5.47	-		Pass
HT20	MCS0	1	36	5180	0.07	-	1.43	-		11.00	-	5.47	-		Pass
HT20	MCS0	1	44	5220	0.07	-	2.70	-		11.00	-	5.47	-		Pass
HT20	MCS0	1	48	5240	0.07	-	2.86	-		11.00	-	5.47	-		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	17.23	-	31.92	-	23.36	-	29.36	-	23.98	-	
11a	6Mbps	1	60	5300	17.18	-	32.32	-	23.35	-	29.35	-	23.98	-	
11a	6Mbps	1	64	5320	17.13	-	22.83	-	23.34	-	29.34	-	23.98	-	
HT20	MCS0	1	52	5260	18.23	-	33.44	-	23.61	-	29.61	-	23.98	-	
HT20	MCS0	1	60	5300	18.28	-	41.73	-	23.62	-	29.62	-	23.98	-	
HT20	MCS0	1	64	5320	18.23	-	33.09	-	23.61	-	29.61	-	23.98	-	

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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	15.80	-		23.98	-	5.75	-	26.99	Pass
11a	6Mbps	1	60	5300	15.50	-		23.98	-	5.75	-	26.99	Pass
11a	6Mbps	1	64	5320	14.00	-		23.98	-	5.75	-	26.99	Pass
HT20	MCS0	1	52	5260	14.00	-		23.98	-	5.75	-	26.99	Pass
HT20	MCS0	1	60	5300	15.50	-		23.98	-	5.75	-	26.99	Pass
HT20	MCS0	1	64	5320	13.60	-		23.98	-	5.75	-	26.99	Pass
VHT20	MCS0	1	52	5260	13.90	-		23.98	-	5.75	-	26.99	Pass
VHT20	MCS0	1	60	5300	15.40	-		23.98	-	5.75	-	26.99	Pass
VHT20	MCS0	1	64	5320	13.50	-		23.98	-	5.75	-	26.99	Pass

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TEST RESULTS DATA
Power Spectral Density

Band II single antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.06	-	3.00	-		11.00	-	5.75	-		Pass
11a	6Mbps	1	60	5300	0.06	-	2.69	-		11.00	-	5.75	-		Pass
11a	6Mbps	1	64	5320	0.06	-	1.18	-		11.00	-	5.75	-		Pass
HT20	MCS0	1	52	5260	0.07	-	0.43	-		11.00	-	5.75	-		Pass
HT20	MCS0	1	60	5300	0.07	-	1.62	-		11.00	-	5.75	-		Pass
HT20	MCS0	1	64	5320	0.07	-	0.21	-		11.00	-	5.75	-		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	17.08	-	30.82	-	23.33	-	29.33	-	23.98	-	----	----
11a	6Mbps	1	116	5580	17.23	-	33.52	-	23.36	-	29.36	-	23.98	-	----	----
11a	6Mbps	1	140	5700	17.13	-	22.83	-	23.34	-	29.34	-	23.98	-	----	----
HT20	MCS0	1	100	5500	18.28	-	33.22	-	23.62	-	29.62	-	23.98	-	----	----
HT20	MCS0	1	116	5580	18.38	-	43.78	-	23.64	-	29.64	-	23.98	-	----	----
HT20	MCS0	1	140	5700	18.23	-	34.18	-	23.61	-	29.61	-	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	13.69	-	16.79	-	22.36	-	28.36	-	23.25	-	3.092	-
HT20	MCS0	1	144	5720	14.24	-	26.66	-	22.54	-	28.54	-	23.98	-	3.741	-

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	13.80	-		23.98	-	5.75	-	26.99	Pass
11a	6Mbps	1	116	5580	15.30	-		23.98	-	5.75	-	26.99	Pass
11a	6Mbps	1	140	5700	13.60	-		23.98	-	5.75	-	26.99	Pass
HT20	MCS0	1	100	5500	13.60	-		23.98	-	5.75	-	26.99	Pass
HT20	MCS0	1	116	5580	15.20	-		23.98	-	5.75	-	26.99	Pass
HT20	MCS0	1	140	5700	13.50	-		23.98	-	5.75	-	26.99	Pass
VHT20	MCS0	1	100	5500	13.50	-		23.98	-	5.75	-	26.99	Pass
VHT20	MCS0	1	116	5580	15.10	-		23.98	-	5.75	-	26.99	Pass
VHT20	MCS0	1	140	5700	13.40	-		23.98	-	5.75	-	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	14.90	-		23.25	-	5.75	-	26.99	Pass
HT20	MCS0	1	144	5720	15.10	-		23.98	-	5.75	-	26.99	Pass
VHT20	MCS0	1	144	5720	15.00	-		23.98	-	5.75	-	26.99	Pass

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TEST RESULTS DATA
Power Spectral Density

Band III single antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.06	-	1.01	-		11.00	-	5.75	-		Pass
11a	6Mbps	1	116	5580	0.06	-	2.27	-		11.00	-	5.75	-		Pass
11a	6Mbps	1	140	5700	0.06	-	0.96	-		11.00	-	5.75	-		Pass
HT20	MCS0	1	100	5500	0.07	-	0.29	-		11.00	-	5.75	-		Pass
HT20	MCS0	1	116	5580	0.07	-	1.41	-		11.00	-	5.75	-		Pass
HT20	MCS0	1	140	5700	0.07	-	0.13	-		11.00	-	5.75	-		Pass

Band III straddle channel single antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	0.06	-	2.35	-		11.00	-	5.75	-		Pass
HT20	MCS0	1	144	5720	0.07	-	2.05	-		11.00	-	5.75	-		Pass

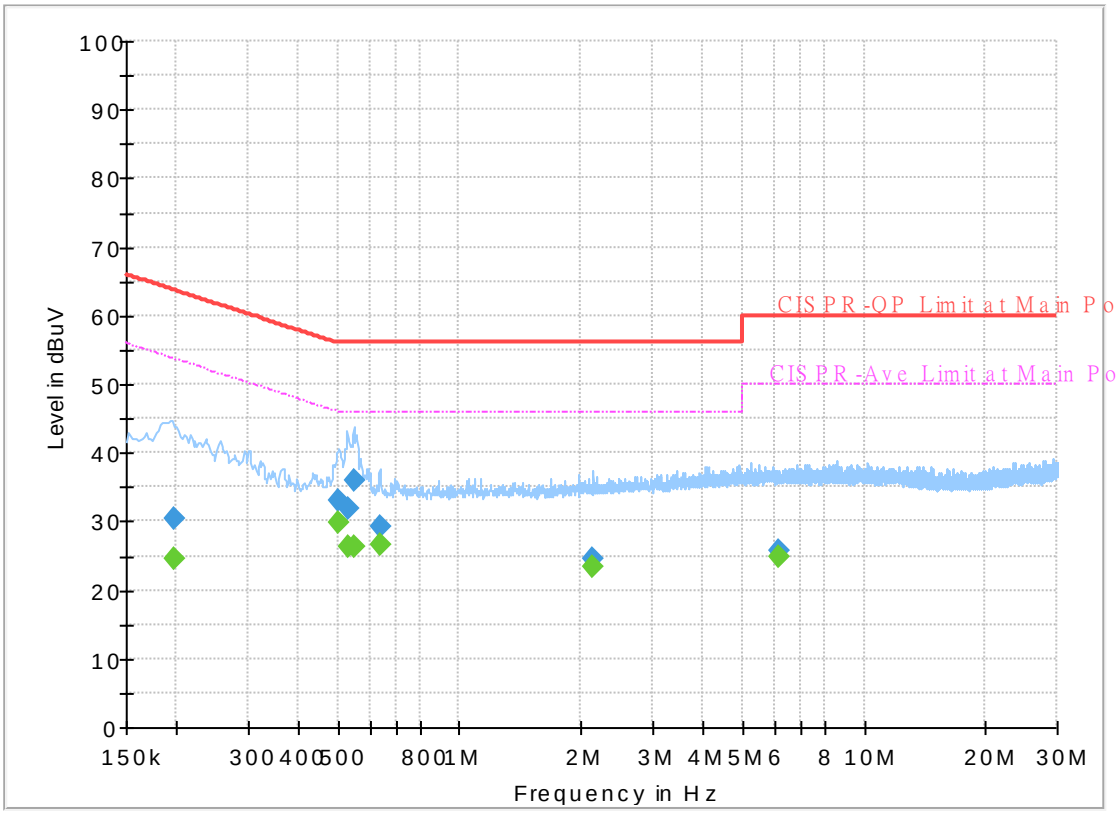
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	**Temperature :**	22~25℃
		Relative Humidity :	40~43%

EUT Information

Report NO :	952805-03
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



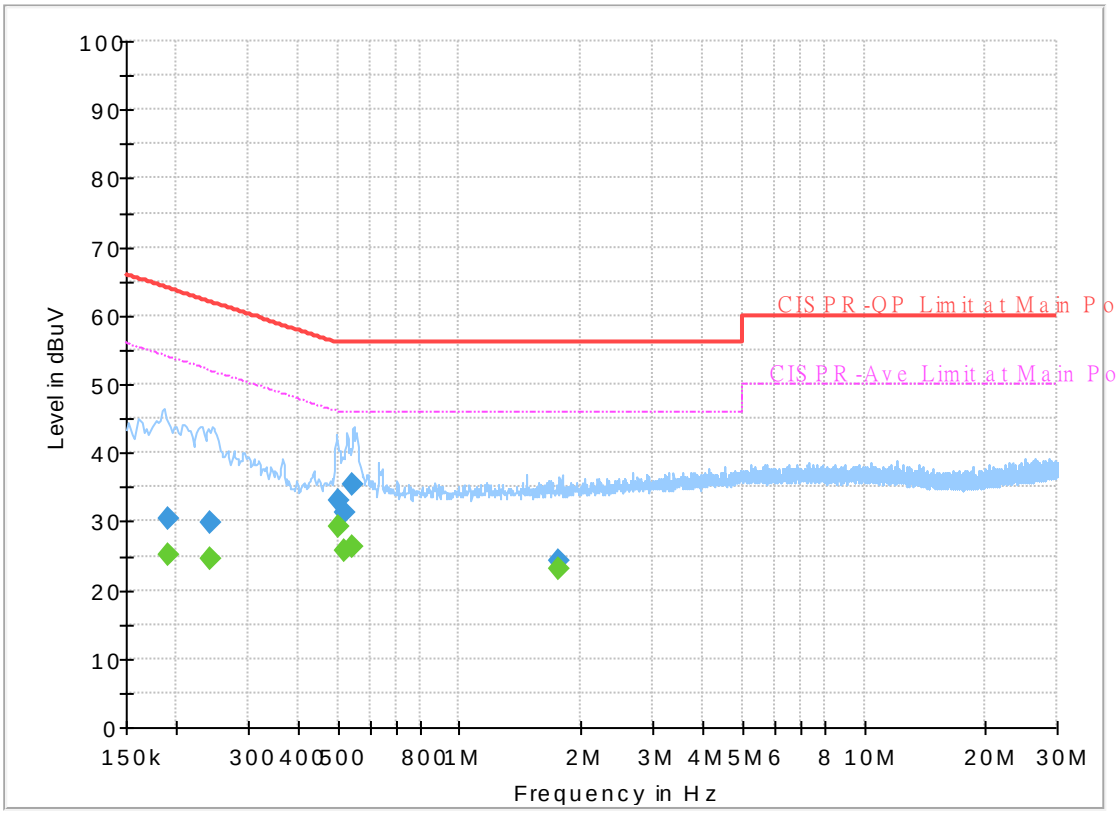
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.196890	---	24.65	53.74	29.09	L1	OFF	19.5
0.196890	30.55	---	63.74	33.19	L1	OFF	19.5
0.503250	---	29.73	46.00	16.27	L1	OFF	19.5
0.503250	33.11	---	56.00	22.89	L1	OFF	19.5
0.532500	---	26.36	46.00	19.64	L1	OFF	19.5
0.532500	31.83	---	56.00	24.17	L1	OFF	19.5
0.547800	---	26.34	46.00	19.66	L1	OFF	19.5
0.547800	36.08	---	56.00	19.92	L1	OFF	19.5
0.634110	---	26.55	46.00	19.45	L1	OFF	19.5
0.634110	29.12	---	56.00	26.88	L1	OFF	19.5
2.139090	---	23.36	46.00	22.64	L1	OFF	19.7
2.139090	24.57	---	56.00	31.43	L1	OFF	19.7
6.155250	---	24.89	50.00	25.11	L1	OFF	19.8
6.155250	25.76	---	60.00	34.24	L1	OFF	19.8

EUT Information

Report NO :	952805-03
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)
0.190500	---	25.14	54.02	28.88	N	OFF	19.6
0.190500	30.54	---	64.02	33.48	N	OFF	19.6
0.242880	---	24.65	52.00	27.35	N	OFF	19.6
0.242880	29.82	---	62.00	32.18	N	OFF	19.6
0.501000	---	29.30	46.00	16.70	N	OFF	19.6
0.501000	32.93	---	56.00	23.07	N	OFF	19.6
0.521250	---	25.78	46.00	20.22	N	OFF	19.6
0.521250	31.27	---	56.00	24.73	N	OFF	19.6
0.545730	---	26.36	46.00	19.64	N	OFF	19.6
0.545730	35.43	---	56.00	20.57	N	OFF	19.6
1.765410	---	23.05	46.00	22.95	N	OFF	19.6
1.765410	24.16	---	56.00	31.84	N	OFF	19.6

Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang , Stan Hsieh and Ken Wu	Temperature :	21~24°C
		Relative Humidity :	56~60%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.24	63.4	-10.6	74	53.13	34.4	11.29	35.42	282	345	P	H
		5150	46.34	-7.66	54	36.07	34.4	11.29	35.42	282	345	A	H
	*	5180	106.53	-	-	96.18	34.47	11.29	35.41	282	345	P	H
	*	5180	98.45	-	-	88.1	34.47	11.29	35.41	282	345	A	H
		5146.12	63.44	-10.56	74	53.17	34.4	11.29	35.42	200	288	P	V
		5150	48.4	-5.6	54	38.13	34.4	11.29	35.42	200	288	A	V
	*	5180	109.05	-	-	98.7	34.47	11.29	35.41	200	288	P	V
	*	5180	100.55	-	-	90.2	34.47	11.29	35.41	200	288	A	V
802.11a CH 44 5220MHz		5147.16	49.64	-24.36	74	39.37	34.4	11.29	35.42	279	345	P	H
		5150	39.36	-14.64	54	29.09	34.4	11.29	35.42	279	345	A	H
	*	5220	108.5	-	-	98.06	34.5	11.34	35.4	279	345	P	H
	*	5220	100.26	-	-	89.82	34.5	11.34	35.4	279	345	A	H
		5459.16	49.52	-24.48	74	38.57	34.7	11.56	35.31	279	345	P	H
		5381.88	39.38	-14.62	54	28.56	34.63	11.53	35.34	279	345	A	H
		5143.52	50.74	-23.26	74	40.47	34.4	11.29	35.42	199	295	P	V
		5150	40.19	-13.81	54	29.92	34.4	11.29	35.42	199	295	A	V
	*	5220	110.12	-	-	99.68	34.5	11.34	35.4	199	295	P	V
	*	5220	102.45	-	-	92.01	34.5	11.34	35.4	199	295	A	V
		5350.8	49.96	-24.04	74	39.32	34.5	11.49	35.35	199	295	P	V
		5386.08	39.95	-14.05	54	29.13	34.63	11.53	35.34	199	295	A	V

802.11a CH 48 5240MHz		5011.96	48.65	-25.35	74	38.94	34.1	11.08	35.47	276	344	P	H
		5150	39.23	-14.77	54	28.96	34.4	11.29	35.42	276	344	A	H
	*	5240	108.79	-	-	98.3	34.5	11.38	35.39	276	344	P	H
	*	5240	100.69	-	-	90.2	34.5	11.38	35.39	276	344	A	H
		5437.32	49.12	-24.88	74	38.18	34.7	11.56	35.32	276	344	P	H
		5405.68	39.45	-14.55	54	28.55	34.7	11.53	35.33	276	344	A	H
		5149.24	49.09	-24.91	74	38.82	34.4	11.29	35.42	202	292	P	V
		5150	39.52	-14.48	54	29.25	34.4	11.29	35.42	202	292	A	V
	*	5240	110.18	-	-	99.69	34.5	11.38	35.39	202	292	P	V
	*	5240	101.87	-	-	91.38	34.5	11.38	35.39	202	292	A	V
		5457.48	50.43	-23.57	74	39.48	34.7	11.56	35.31	202	292	P	V
		5397.28	40.12	-13.88	54	29.22	34.7	11.53	35.33	202	292	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	43.99	-24.21	68.2	48.19	37.47	17.91	59.58	100	0	P	H
		15540	44.79	-29.21	74	40.21	40.1	21	56.52	100	0	P	H
		10360	43.79	-24.41	68.2	47.99	37.47	17.91	59.58	100	0	P	V
		15540	45.32	-28.68	74	40.74	40.1	21	56.52	100	0	P	V
802.11a CH 44 5220MHz		10440	44.13	-24.07	68.2	48.2	37.53	17.94	59.54	100	0	P	H
		15660	46	-28	74	41.18	40.45	21.07	56.7	100	0	P	H
		10440	43.84	-24.36	68.2	47.91	37.53	17.94	59.54	100	0	P	V
		15660	45.39	-28.61	74	40.57	40.45	21.07	56.7	100	0	P	V
802.11a CH 48 5240MHz		10480	43.87	-24.33	68.2	47.84	37.58	17.95	59.5	100	0	P	H
		15720	45.99	-28.01	74	41.12	40.58	21.1	56.81	100	0	P	H
		10480	45.38	-22.82	68.2	49.35	37.58	17.95	59.5	100	0	P	V
		15720	45	-29	74	40.13	40.58	21.1	56.81	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)
802.11n HT20 CH 36 5180MHz		5149.5	61.12	-12.88	74	50.85	34.4	11.29	35.42	282	345	P	H
		5150	47.34	-6.66	54	37.07	34.4	11.29	35.42	282	345	A	H
	*	5180	106.89	-	-	96.54	34.47	11.29	35.41	282	345	P	H
	*	5180	98.75	-	-	88.4	34.47	11.29	35.41	282	345	A	H
		5143	63.87	-10.13	74	53.6	34.4	11.29	35.42	204	288	P	V
		5149.76	49.25	-4.75	54	38.98	34.4	11.29	35.42	204	288	A	V
	*	5180	108.68	-	-	98.33	34.47	11.29	35.41	204	288	P	V
	*	5180	100.25	-	-	89.9	34.47	11.29	35.41	204	288	A	V
802.11n HT20 CH 44 5220MHz		5130.26	50.1	-23.9	74	39.92	34.37	11.24	35.43	279	345	P	H
		5150	39.5	-14.5	54	29.23	34.4	11.29	35.42	279	345	A	H
	*	5220	108.34	-	-	97.9	34.5	11.34	35.4	279	345	P	H
	*	5220	99.84	-	-	89.4	34.5	11.34	35.4	279	345	A	H
		5361.72	49.76	-24.24	74	39.05	34.57	11.49	35.35	279	345	P	H
		5388.6	39.38	-14.62	54	28.56	34.63	11.53	35.34	279	345	A	H
		5072.54	50.29	-23.71	74	40.33	34.23	11.18	35.45	199	295	P	V
		5149.76	40.42	-13.58	54	30.15	34.4	11.29	35.42	199	295	A	V
	*	5220	110.39	-	-	99.95	34.5	11.34	35.4	199	295	P	V
	*	5220	101.64	-	-	91.2	34.5	11.34	35.4	199	295	A	V
		5395.04	50.28	-23.72	74	39.39	34.7	11.53	35.34	199	295	P	V
		5385.8	39.97	-14.03	54	29.15	34.63	11.53	35.34	199	295	A	V

802.11n HT20 CH 48 5240MHz		5017.68	49.05	-24.95	74	39.33	34.1	11.08	35.46	276	344	P	H
		5150	39.29	-14.71	54	29.02	34.4	11.29	35.42	276	344	A	H
	*	5240	109.27	-	-	98.78	34.5	11.38	35.39	276	344	P	H
	*	5240	100.55	-	-	90.06	34.5	11.38	35.39	276	344	A	H
		5384.12	49.4	-24.6	74	38.58	34.63	11.53	35.34	276	344	P	H
		5407.92	39.46	-14.54	54	28.56	34.7	11.53	35.33	276	344	A	H
		5106.08	50	-24	74	39.86	34.33	11.24	35.43	202	292	P	V
		5149.5	39.61	-14.39	54	29.34	34.4	11.29	35.42	202	292	A	V
	*	5240	110.69	-	-	100.2	34.5	11.38	35.39	202	292	P	V
	*	5240	101.69	-	-	91.2	34.5	11.38	35.39	202	292	A	V
		5397.84	51.08	-22.92	74	40.18	34.7	11.53	35.33	202	292	P	V
		5396.16	40.11	-13.89	54	29.22	34.7	11.53	35.34	202	292	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	43.86	-24.34	68.2	48.06	37.47	17.91	59.58	100	0	P	H
HT20		15540	44.78	-29.22	74	40.2	40.1	21	56.52	100	0	P	H
CH 36		10360	44.47	-23.73	68.2	48.67	37.47	17.91	59.58	100	0	P	V
5180MHz		15540	45.12	-28.88	74	40.54	40.1	21	56.52	100	0	P	V
802.11n		10440	44.15	-24.05	68.2	48.22	37.53	17.94	59.54	100	0	P	H
HT20		15660	46.84	-27.16	74	42.02	40.45	21.07	56.7	100	0	P	H
CH 44		10440	44.58	-23.62	68.2	48.65	37.53	17.94	59.54	100	0	P	V
5220MHz		15660	45.53	-28.47	74	40.71	40.45	21.07	56.7	100	0	P	V
802.11n		10480	46.19	-22.01	68.2	50.16	37.58	17.95	59.5	100	0	P	H
HT20		15720	45.43	-28.57	74	40.56	40.58	21.1	56.81	100	0	P	H
CH 48		10480	44.85	-23.35	68.2	48.82	37.58	17.95	59.5	100	0	P	V
5240MHz		15720	45.49	-28.51	74	40.62	40.58	21.1	56.81	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5149.8	49.04	-24.96	74	38.77	34.4	11.29	35.42	260	337	P	H
		5142.45	39	-15	54	28.73	34.4	11.29	35.42	260	337	A	H
	*	5260	107.52	-	-	96.95	34.57	11.38	35.38	260	337	P	H
	*	5260	99.63	-	-	89.06	34.57	11.38	35.38	260	337	A	H
		5414.88	49.99	-24.01	74	39.09	34.7	11.53	35.33	260	337	P	H
		5423.52	39.45	-14.55	54	28.52	34.7	11.56	35.33	260	337	A	H
		5125.3	49.71	-24.29	74	39.53	34.37	11.24	35.43	199	287	P	V
		5150	39.2	-14.8	54	28.93	34.4	11.29	35.42	199	287	A	V
	*	5260	109.16	-	-	98.59	34.57	11.38	35.38	199	287	P	V
	*	5260	101.06	-	-	90.49	34.57	11.38	35.38	199	287	A	V
		5369.04	50.46	-23.54	74	39.74	34.57	11.49	35.34	199	287	P	V
		5425.2	39.89	-14.11	54	28.96	34.7	11.56	35.33	199	287	A	V
802.11a CH 60 5300MHz		5144.9	48.55	-25.45	74	38.28	34.4	11.29	35.42	258	344	P	H
		5140.35	39.01	-14.99	54	28.74	34.4	11.29	35.42	258	344	A	H
	*	5300	108.25	-	-	97.5	34.7	11.42	35.37	258	344	P	H
	*	5300	100.11	-	-	89.36	34.7	11.42	35.37	258	344	A	H
		5350.08	51.33	-22.67	74	40.69	34.5	11.49	35.35	258	344	P	H
		5350.32	41.26	-12.74	54	30.62	34.5	11.49	35.35	258	344	A	H
		5105	48.57	-25.43	74	38.46	34.3	11.24	35.43	180	194	P	V
		5140.7	39.07	-14.93	54	28.8	34.4	11.29	35.42	180	194	A	V
	*	5300	110.13	-	-	99.38	34.7	11.42	35.37	180	194	P	V
	*	5300	102.15	-	-	91.4	34.7	11.42	35.37	180	194	A	V
		5356.32	52.15	-21.85	74	41.51	34.5	11.49	35.35	180	194	P	V
		5350.08	42.91	-11.09	54	32.27	34.5	11.49	35.35	180	194	A	V

802.11a CH 64 5320MHz	*	5320	105.83	-	-	95.11	34.63	11.45	35.36	194	340	P	H
	*	5320	97.74	-	-	87.02	34.63	11.45	35.36	194	340	A	H
		5350.4	54.34	-19.66	74	43.7	34.5	11.49	35.35	194	340	P	H
		5350.08	45.67	-8.33	54	35.03	34.5	11.49	35.35	194	340	A	H
	*	5320	107.86	-	-	97.14	34.63	11.45	35.36	200	290	P	V
	*	5320	99.78	-	-	89.06	34.63	11.45	35.36	200	290	A	V
		5351.2	62.86	-11.14	74	52.22	34.5	11.49	35.35	200	290	P	V
		5350.08	48.86	-5.14	54	38.22	34.5	11.49	35.35	200	290	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	43.54	-24.66	68.2	47.43	37.6	17.96	59.45	100	0	P	H
		15780	45.04	-28.96	74	40.26	40.53	21.13	56.88	100	0	P	H
		10520	43.85	-24.35	68.2	47.74	37.6	17.96	59.45	100	0	P	V
		15780	45.7	-28.3	74	40.92	40.53	21.13	56.88	100	0	P	V
802.11a CH 60 5300MHz		10600	45.09	-28.91	74	48.75	37.6	17.99	59.25	100	0	P	H
		15900	45.18	-28.82	74	40.24	40.8	21.2	57.06	100	0	P	H
		10600	45.33	-28.67	74	48.99	37.6	17.99	59.25	100	0	P	V
		15900	45.25	-28.75	74	40.31	40.8	21.2	57.06	100	0	P	V
802.11a CH 64 5320MHz		10640	44.63	-29.37	74	48.16	37.63	18.01	59.17	100	0	P	H
		15960	45.01	-28.99	74	40.14	40.8	21.24	57.17	100	0	P	H
		10640	44.68	-29.32	74	48.21	37.63	18.01	59.17	100	0	P	V
		15960	45.31	-28.69	74	40.44	40.8	21.24	57.17	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n 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 52 5260MHz		5027.65	49.22	-24.78	74	39.45	34.1	11.13	35.46	260	337	P	H
		5141.75	38.96	-15.04	54	28.69	34.4	11.29	35.42	260	337	A	H
	*	5260	106.36	-	-	95.79	34.57	11.38	35.38	260	337	P	H
	*	5260	97.66	-	-	87.09	34.57	11.38	35.38	260	337	A	H
		5449.92	49.45	-24.55	74	38.51	34.7	11.56	35.32	260	337	P	H
		5439.84	39.37	-14.63	54	28.43	34.7	11.56	35.32	260	337	A	H
		5092.05	48.36	-25.64	74	38.32	34.3	11.18	35.44	199	287	P	V
		5149.8	39.07	-14.93	54	28.8	34.4	11.29	35.42	199	287	A	V
	*	5260	108.16	-	-	97.59	34.57	11.38	35.38	199	287	P	V
	*	5260	99.26	-	-	88.69	34.57	11.38	35.38	199	287	A	V
		5382.24	49.66	-24.34	74	38.84	34.63	11.53	35.34	199	287	P	V
		5425.92	39.64	-14.36	54	28.71	34.7	11.56	35.33	199	287	A	V
802.11n HT20 CH 60 5300MHz		5030.45	49.12	-24.88	74	39.35	34.1	11.13	35.46	258	344	P	H
		5144.2	38.99	-15.01	54	28.72	34.4	11.29	35.42	258	344	A	H
	*	5300	108.45	-	-	97.7	34.7	11.42	35.37	258	344	P	H
	*	5300	99.65	-	-	88.9	34.7	11.42	35.37	258	344	A	H
		5351.52	51.99	-22.01	74	41.35	34.5	11.49	35.35	258	344	P	H
		5350.08	41.6	-12.4	54	30.96	34.5	11.49	35.35	258	344	A	H
		5136.85	49.53	-24.47	74	39.34	34.37	11.24	35.42	180	194	P	V
		5141.75	39.06	-14.94	54	28.79	34.4	11.29	35.42	180	194	A	V
	*	5300	110.45	-	-	99.7	34.7	11.42	35.37	180	194	P	V
	*	5300	102.35	-	-	91.6	34.7	11.42	35.37	180	194	A	V
		5351.76	52.28	-21.72	74	41.64	34.5	11.49	35.35	180	194	P	V
		5350.08	43.36	-10.64	54	32.72	34.5	11.49	35.35	180	194	A	V

802.11n HT20 CH 64 5320MHz	*	5326	105.75	-	-	95.03	34.63	11.45	35.36	194	340	P	H
	*	5326	97.79	-	-	87.07	34.63	11.45	35.36	194	340	A	H
		5353.6	56.17	-17.83	74	45.53	34.5	11.49	35.35	194	340	P	H
		5350.08	45.83	-8.17	54	35.19	34.5	11.49	35.35	194	340	A	H
	*	5320	108.03	-	-	97.31	34.63	11.45	35.36	200	290	P	V
	*	5320	99.13	-	-	88.41	34.63	11.45	35.36	200	290	A	V
		5354.56	60.59	-13.41	74	49.95	34.5	11.49	35.35	200	290	P	V
		5350.08	48.89	-5.11	54	38.25	34.5	11.49	35.35	200	290	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 HT20 CH 52 5260MHz		10520	44.26	-23.94	68.2	48.15	37.6	17.96	59.45	100	0	P	H
		15780	44.99	-29.01	74	40.21	40.53	21.13	56.88	100	0	P	H
		10520	44.35	-23.85	68.2	48.24	37.6	17.96	59.45	100	0	P	V
		15780	44.98	-29.02	74	40.2	40.53	21.13	56.88	100	0	P	V
802.11n HT20 CH 60 5300MHz		10600	43.78	-30.22	74	47.44	37.6	17.99	59.25	100	0	P	H
		15900	44.78	-29.22	74	39.84	40.8	21.2	57.06	100	0	P	H
		10600	43.67	-30.33	74	47.33	37.6	17.99	59.25	100	0	P	V
		15900	45.67	-28.33	74	40.73	40.8	21.2	57.06	100	0	P	V
802.11n HT20 CH 64 5320MHz		10640	45.09	-28.91	74	48.62	37.63	18.01	59.17	100	0	P	H
		15960	45.65	-28.35	74	40.78	40.8	21.24	57.17	100	0	P	H
		10640	44.97	-29.03	74	48.5	37.63	18.01	59.17	100	0	P	V
		15960	45.03	-28.97	74	40.16	40.8	21.24	57.17	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5456.4	51.05	-22.95	74	40.1	34.7	11.56	35.31	320	177	P	H
		5468.56	53.62	-14.58	68.2	42.54	34.8	11.59	35.31	320	177	P	H
		5460	42.4	-11.6	54	31.45	34.7	11.56	35.31	320	177	A	H
	*	5500	102.89	-	-	91.6	35	11.59	35.3	320	177	P	H
	*	5500	94.75	-	-	83.46	35	11.59	35.3	320	177	A	H
		5459.76	56.26	-17.74	74	45.31	34.7	11.56	35.31	328	203	P	V
		5466.32	62.79	-5.41	68.2	51.71	34.8	11.59	35.31	328	203	P	V
		5460	46.2	-7.8	54	35.25	34.7	11.56	35.31	328	203	A	V
	*	5500	109.8	-	-	98.51	35	11.59	35.3	328	203	P	V
	*	5500	102.18	-	-	90.89	35	11.59	35.3	328	203	A	V
802.11a CH 116 5580MHz		5398.72	49.41	-24.59	74	38.51	34.7	11.53	35.33	362	178	P	H
		5465.92	48.69	-19.51	68.2	37.61	34.8	11.59	35.31	362	178	P	H
		5459.44	39.28	-14.72	54	28.33	34.7	11.56	35.31	362	178	A	H
	*	5580	104.5	-	-	93.29	34.87	11.65	35.31	362	178	P	H
	*	5580	96.14	-	-	84.93	34.87	11.65	35.31	362	178	A	H
		5737.28	51.44	-16.76	68.2	39.93	35	11.83	35.32	362	178	P	H
		5413.36	49.6	-24.4	74	38.7	34.7	11.53	35.33	349	203	P	V
		5467.36	48.88	-19.32	68.2	37.8	34.8	11.59	35.31	349	203	P	V
		5459.92	39.62	-14.38	54	28.67	34.7	11.56	35.31	349	203	A	V
	*	5580	111.24	-	-	100.03	34.87	11.65	35.31	349	203	P	V
	*	5580	102.49	-	-	91.28	34.87	11.65	35.31	349	203	A	V
		5725.625	51.08	-17.12	68.2	39.57	35	11.83	35.32	349	203	P	V

802.11a CH 140 5700MHz	*	5700	100.79	-	-	89.33	35	11.78	35.32	282	176	P	H
	*	5700	92.86	-	-	81.4	35	11.78	35.32	282	176	A	H
		5725.64	54.6	-13.6	68.2	43.09	35	11.83	35.32	282	176	P	H
	*	5700	107.99	-	-	96.53	35	11.78	35.32	289	205	P	V
	*	5700	100.01	-	-	88.55	35	11.78	35.32	289	205	A	V
		5726.28	60.03	-8.17	68.2	48.52	35	11.83	35.32	289	205	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	45.43	-28.57	74	47.72	37.9	18.13	58.32	100	0	P	H
		16500	47.33	-20.87	68.2	40.65	41.6	21.85	56.77	100	0	P	H
		11000	45.76	-28.24	74	48.05	37.9	18.13	58.32	100	0	P	V
		16500	46.74	-21.46	68.2	40.06	41.6	21.85	56.77	100	0	P	V
802.11a CH 116 5580MHz		11160	44.95	-29.05	74	46.86	37.9	18.21	58.02	100	0	P	H
		16740	48.96	-19.24	68.2	40.96	42.36	22.14	56.5	100	0	P	H
		11160	45.93	-28.07	74	47.84	37.9	18.21	58.02	100	0	P	V
		16740	49.87	-18.33	68.2	41.87	42.36	22.14	56.5	100	0	P	V
802.11a CH 140 5700MHz		11400	45.06	-28.94	74	46.24	38.1	18.33	57.61	100	0	P	H
		17100	50.94	-17.26	68.2	42.53	42	22.54	56.13	100	0	P	H
		11400	45.15	-28.85	74	46.33	38.1	18.33	57.61	100	0	P	V
		17100	51.34	-16.86	68.2	42.93	42	22.54	56.13	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)
802.11n HT20 CH 100 5500MHz		5452.88	54.55	-19.45	74	43.61	34.7	11.56	35.32	330	259	P	H
		5467.44	60.45	-7.75	68.2	49.37	34.8	11.59	35.31	330	259	P	H
		5460	42.3	-11.7	54	31.35	34.7	11.56	35.31	330	259	A	H
	*	5500	105.69	-	-	94.4	35	11.59	35.3	330	259	P	H
	*	5500	96.89	-	-	85.6	35	11.59	35.3	330	259	A	H
		5458.16	55.8	-18.2	74	44.85	34.7	11.56	35.31	190	196	P	V
		5469.04	64.45	-3.75	68.2	53.37	34.8	11.59	35.31	190	196	P	V
		5460	46.45	-7.55	54	35.5	34.7	11.56	35.31	190	196	A	V
	*	5500	110.19	-	-	98.9	35	11.59	35.3	190	196	P	V
	*	5500	101.49	-	-	90.2	35	11.59	35.3	190	196	A	V
802.11n HT20 CH 116 5580MHz		5384.56	49.98	-24.02	74	39.16	34.63	11.53	35.34	303	260	P	H
		5468.08	48.89	-19.31	68.2	37.81	34.8	11.59	35.31	303	260	P	H
		5458.24	39.56	-14.44	54	28.61	34.7	11.56	35.31	303	260	A	H
	*	5580	107.41	-	-	96.2	34.87	11.65	35.31	303	260	P	H
	*	5580	98.65	-	-	87.44	34.87	11.65	35.31	303	260	A	H
		5759.96	53.19	-15.01	68.2	41.64	35	11.88	35.33	303	260	P	H
		5372.32	49.71	-24.29	74	38.99	34.57	11.49	35.34	190	295	P	V
		5460.16	49.43	-18.77	68.2	38.45	34.7	11.59	35.31	190	295	P	V
		5459.92	39.72	-14.28	54	28.77	34.7	11.56	35.31	190	295	A	V
	*	5580	110.01	-	-	98.8	34.87	11.65	35.31	190	295	P	V
	*	5580	101.51	-	-	90.3	34.87	11.65	35.31	190	295	A	V
		5751.14	51.33	-16.87	68.2	39.78	35	11.88	35.33	190	295	P	V

802.11n HT20 CH 140 5700MHz	*	5700	102.64	-	-	91.18	35	11.78	35.32	275	149	P	H
	*	5700	94.58	-	-	83.12	35	11.78	35.32	275	149	A	H
		5725.24	55.77	-12.43	68.2	44.26	35	11.83	35.32	275	149	P	H
	*	5700	107.19	-	-	95.73	35	11.78	35.32	337	207	P	V
	*	5700	99.25	-	-	87.79	35	11.78	35.32	337	207	A	V
		5725.24	64.35	-3.85	68.2	52.84	35	11.83	35.32	337	207	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 HT20 CH 100 5500MHz		11000	45.72	-28.28	74	48.01	37.9	18.13	58.32	100	0	P	H
		16500	47.39	-20.81	68.2	40.71	41.6	21.85	56.77	100	0	P	H
		11000	45.37	-28.63	74	47.66	37.9	18.13	58.32	100	0	P	V
		16500	46.3	-21.9	68.2	39.62	41.6	21.85	56.77	100	0	P	V
802.11n HT20 CH 116 5580MHz		11160	44.85	-29.15	74	46.76	37.9	18.21	58.02	100	0	P	H
		16740	47.86	-20.34	68.2	39.86	42.36	22.14	56.5	100	0	P	H
		11160	44.89	-29.11	74	46.8	37.9	18.21	58.02	100	0	P	V
		16740	47.42	-20.78	68.2	39.42	42.36	22.14	56.5	100	0	P	V
802.11n HT20 CH 140 5700MHz		11400	46.49	-27.51	74	47.67	38.1	18.33	57.61	100	0	P	H
		17100	48.79	-19.41	68.2	40.38	42	22.54	56.13	100	0	P	H
		11400	46.86	-27.14	74	48.04	38.1	18.33	57.61	100	0	P	V
		17100	49.55	-18.65	68.2	41.14	42	22.54	56.13	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		5453.74	49.68	-24.32	74	38.74	34.7	11.56	35.32	288	257	P	H
		5461.93	49.34	-18.86	68.2	38.36	34.7	11.59	35.31	288	257	P	H
		5439.7	39.85	-14.15	54	28.91	34.7	11.56	35.32	288	257	A	H
	*	5720	108.46	-	-	96.95	35	11.83	35.32	288	257	P	H
	*	5720	100.31	-	-	88.8	35	11.83	35.32	288	257	A	H
		5886.25	50.23	-17.97	68.2	38.42	35.13	12.02	35.34	288	257	P	H
		5445.94	50.3	-23.7	74	39.36	34.7	11.56	35.32	189	281	P	V
		5461.93	49.38	-18.82	68.2	38.4	34.7	11.59	35.31	189	281	P	V
		5441.26	40.59	-13.41	54	29.65	34.7	11.56	35.32	189	281	A	V
	*	5720	110.91	-	-	99.4	35	11.83	35.32	189	281	P	V
	*	5720	102.79	-	-	91.28	35	11.83	35.32	189	281	A	V
		5893.75	51.82	-16.38	68.2	39.94	35.2	12.02	35.34	189	281	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	46.88	-27.12	74	47.95	38.13	18.35	57.55	100	0	P	H
		17160	50.43	-17.77	68.2	42.16	41.73	22.62	56.08	100	0	P	H
		11440	46.45	-27.55	74	47.52	38.13	18.35	57.55	100	0	P	V
		17160	49.88	-18.32	68.2	41.61	41.73	22.62	56.08	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		5390.56	48.41	-25.59	74	37.59	34.63	11.53	35.34	199	257	P	H
		5465.05	46.96	-21.24	68.2	35.88	34.8	11.59	35.31	199	257	P	H
		5438.14	38.97	-15.03	54	28.03	34.7	11.56	35.32	199	257	A	H
	*	5720	107.01	-	-	95.5	35	11.83	35.32	199	257	P	H
	*	5720	98.41	-	-	86.9	35	11.83	35.32	199	257	A	H
		5878.75	50.71	-17.49	68.2	38.9	35.13	12.02	35.34	199	257	P	H
		5359.36	48.76	-25.24	74	38.12	34.5	11.49	35.35	195	267	P	V
		5464.27	47.24	-20.96	68.2	36.16	34.8	11.59	35.31	195	267	P	V
		5437.36	39.37	-14.63	54	28.43	34.7	11.56	35.32	195	267	A	V
	*	5720	108.8	-	-	97.29	35	11.83	35.32	195	267	P	V
	*	5720	99.81	-	-	88.3	35	11.83	35.32	195	267	A	V
		5938.75	49.78	-18.42	68.2	37.85	35.2	12.07	35.34	195	267	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	46.37	-27.63	74	47.44	38.13	18.35	57.55	100	0	P	H
		17160	49.92	-18.28	68.2	41.65	41.73	22.62	56.08	100	0	P	H
		11440	45.82	-28.18	74	46.89	38.13	18.35	57.55	100	0	P	V
		17160	49.68	-18.52	68.2	41.41	41.73	22.62	56.08	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

WIFI 802.11n HT20 (SHF @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 SHF		18044	43.05	-30.95	74	47.29	37.9	11.9	54.04	100	0	P	H
		18198	42.75	-31.25	74	47.67	37.9	11.38	54.2	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		30	23.24	-16.76	40	27.42	24.6	1.2	29.98	-	-	P	H
		46.74	21.48	-18.52	40	34.38	15.89	1.2	29.99	-	-	P	H
		80.49	20.53	-19.47	40	35.62	13.28	1.62	29.99	-	-	P	H
		500.2	32.87	-13.13	46	35.16	23.86	3.65	29.8	-	-	P	H
		552.7	32.38	-13.62	46	33.18	25.23	3.72	29.75	-	-	P	H
		958	33.14	-12.86	46	25.78	30.8	5.06	28.5	100	0	P	H
		30	29.97	-10.03	40	34.15	24.6	1.2	29.98	100	0	P	V
		81.3	24.11	-15.89	40	39.07	13.4	1.63	29.99	-	-	P	V
		172.02	29.09	-14.41	43.5	41.3	15.45	2.23	29.89	-	-	P	V
		577.2	31.48	-14.52	46	32	25.47	3.74	29.73	-	-	P	V
		787.9	29.95	-16.05	46	26.77	27.97	4.53	29.32	-	-	P	V
		954.5	33.62	-12.38	46	26.5	30.59	5.06	28.53	-	-	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

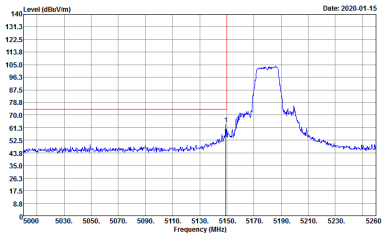
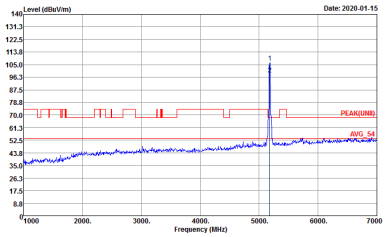
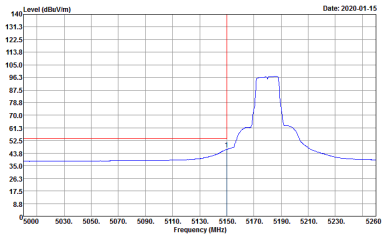
Test Engineer :	Jesse Wang , Stan Hsieh and Ken Wu	**Temperature :**	21~24°C
		Relative Humidity :	56~60%

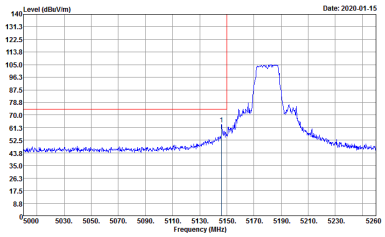
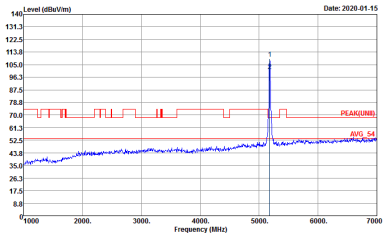
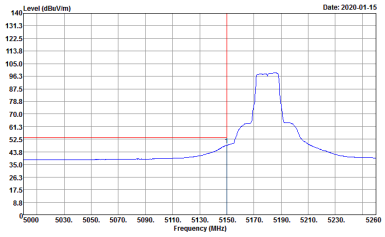
Note symbol

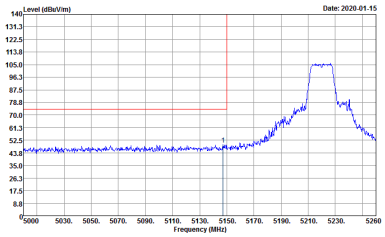
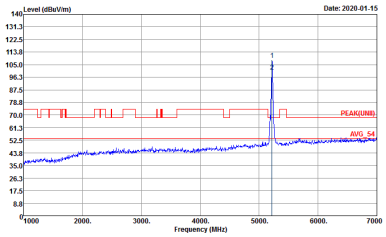
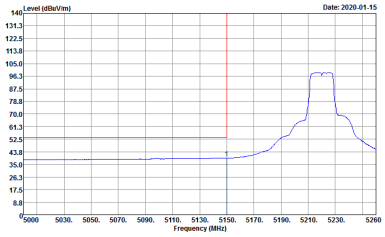
-L	**Low channel location**
-R	**High channel location**

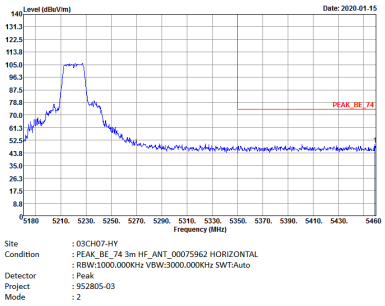
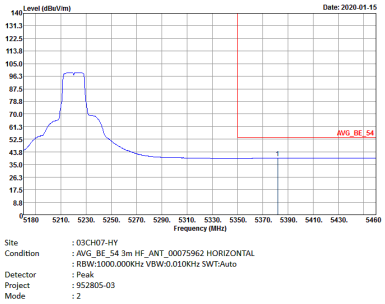
Band 1 - 5150~5250MHz

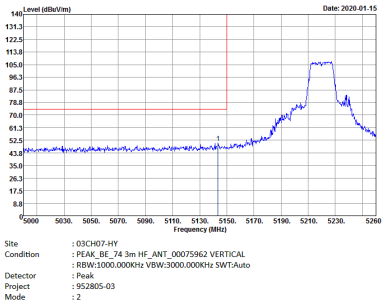
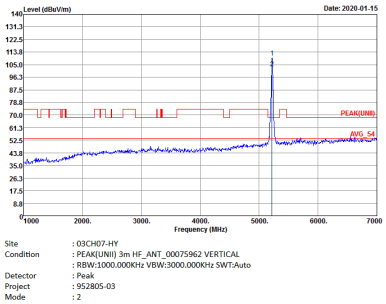
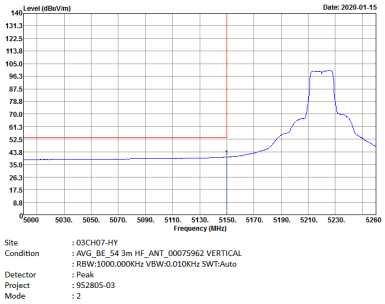
WIFI 802.11a (Band Edge @ 3m)

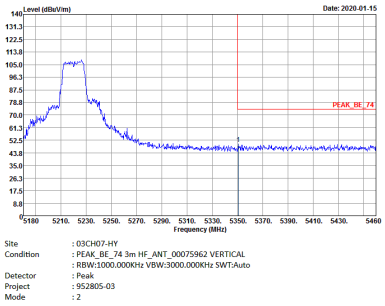
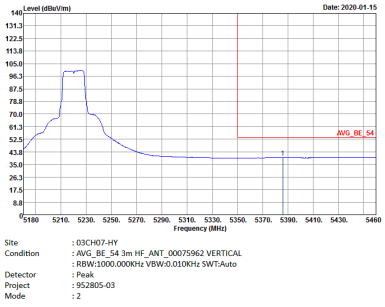
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 1	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 1
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 1	Left blank

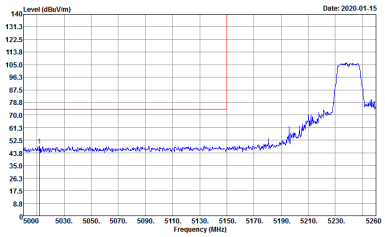
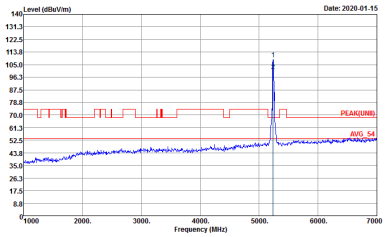
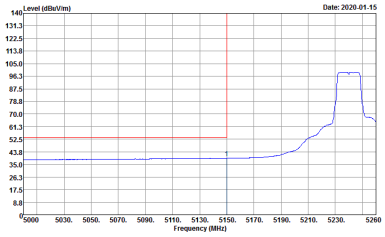
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 1	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 1
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 1	Left blank

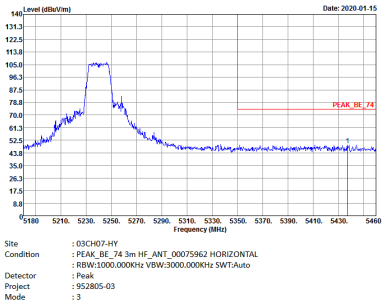
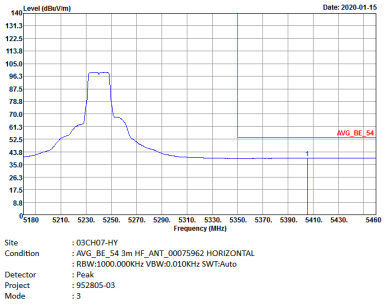
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 2	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 2
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 2	Left blank

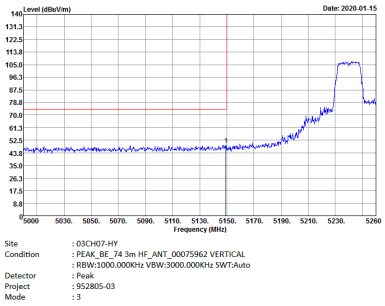
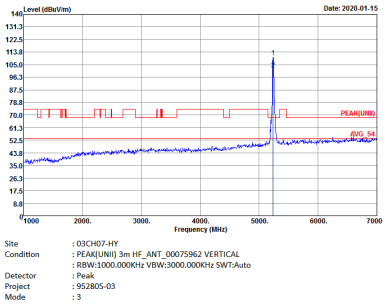
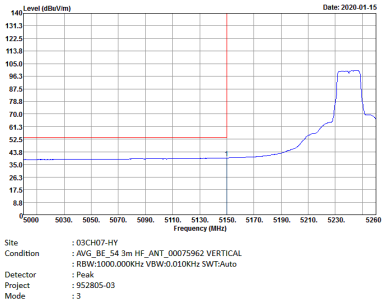
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

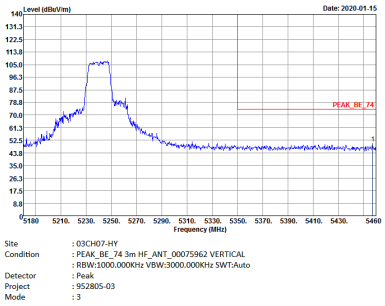
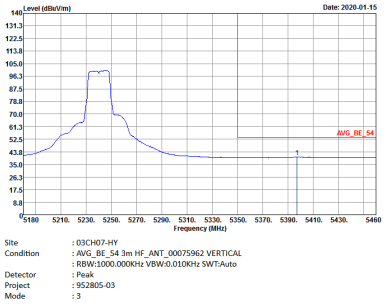
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

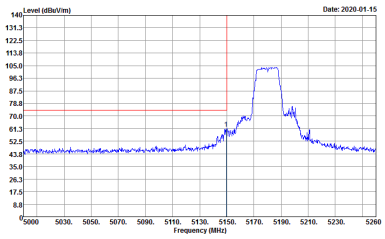
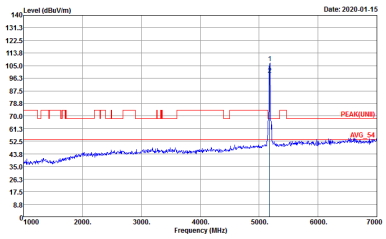
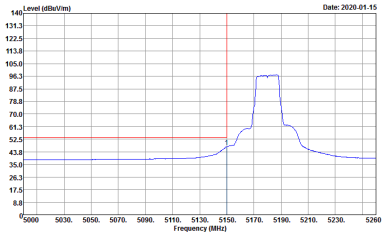
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 3	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 3
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 3	Left blank

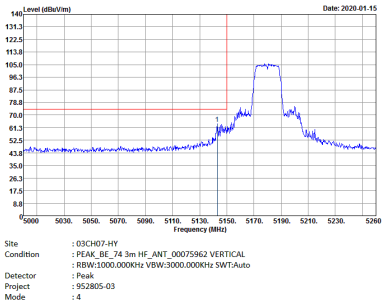
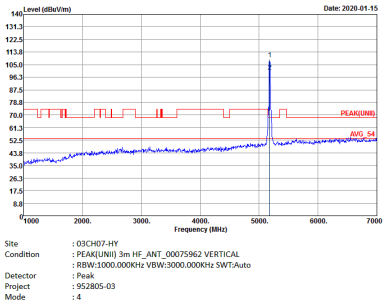
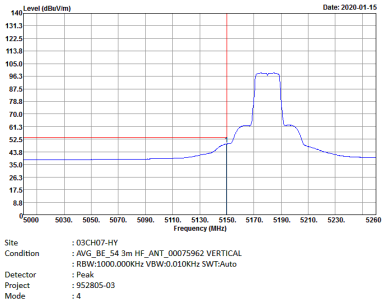
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

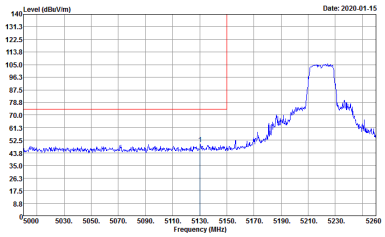
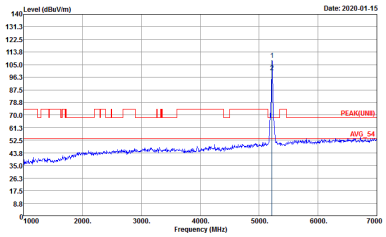
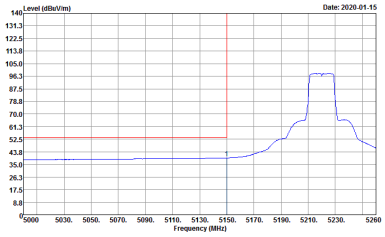
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

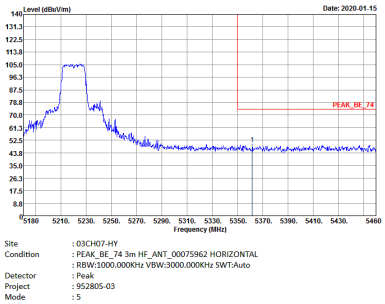
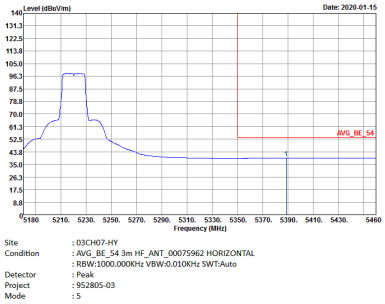
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

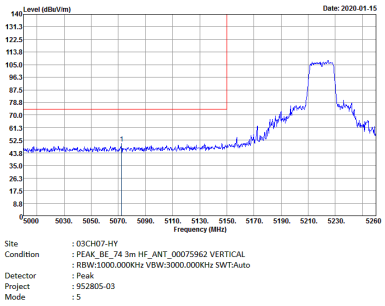
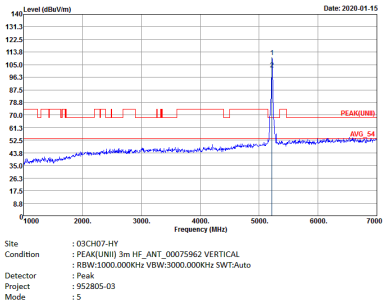
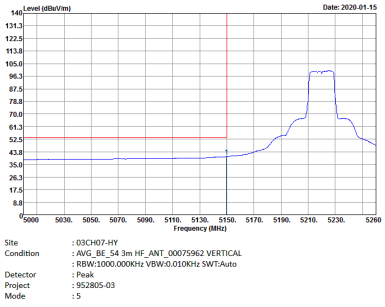
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

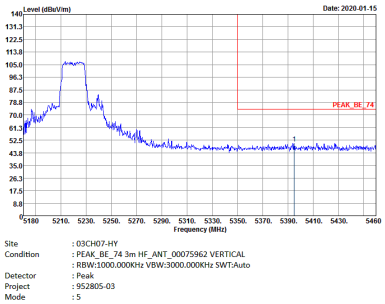
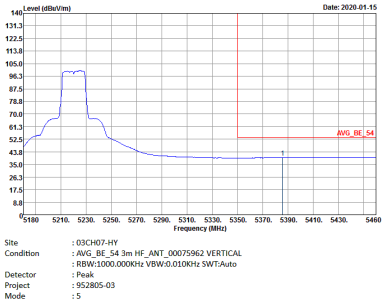
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 4	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 4
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 4	Left blank

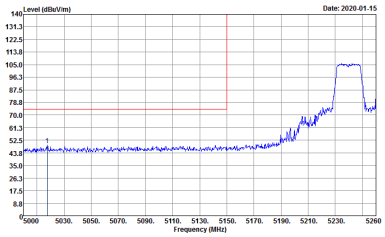
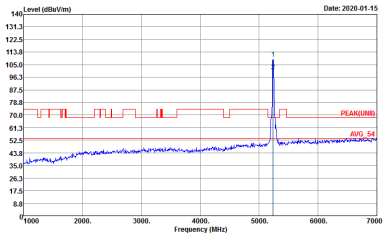
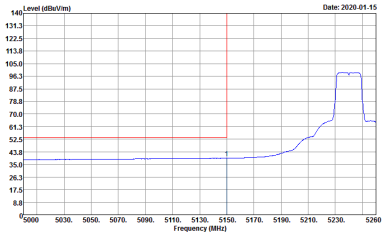
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

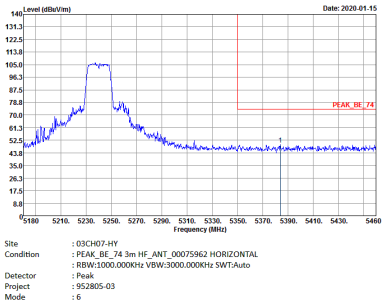
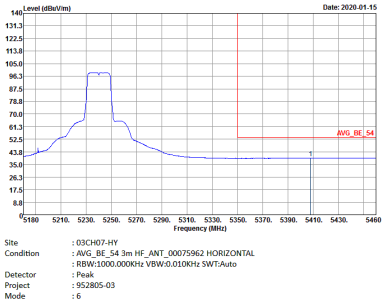
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 5	Left blank

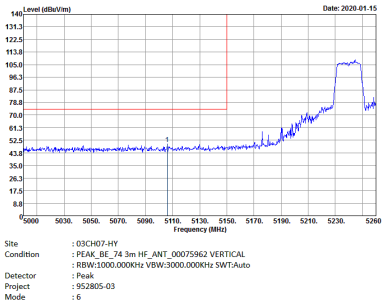
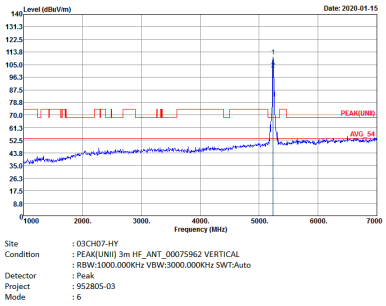
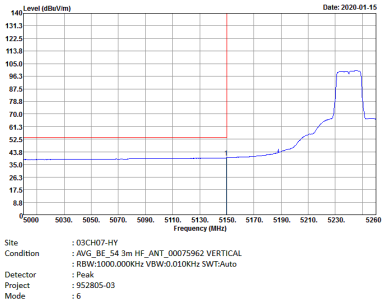
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

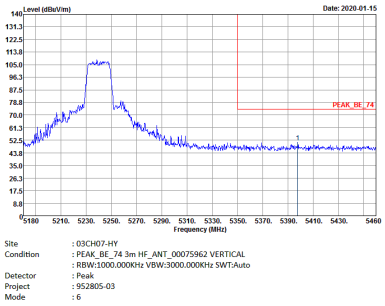
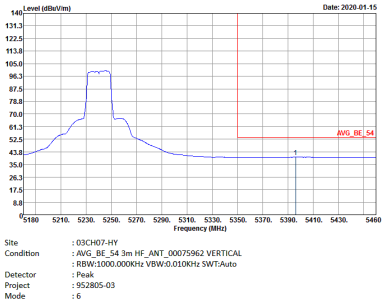
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 6	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 6
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 6	Left blank

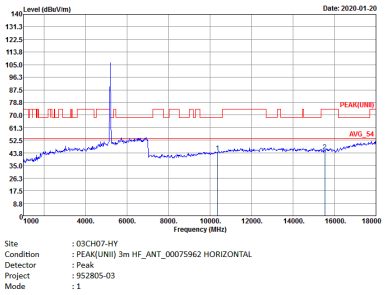
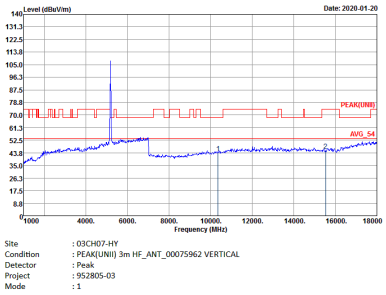
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

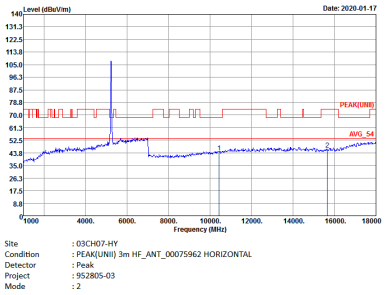
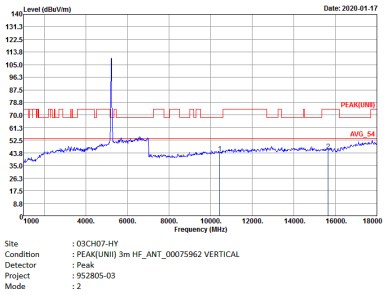
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

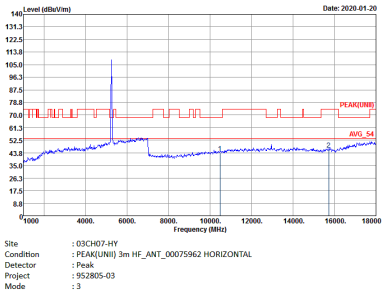
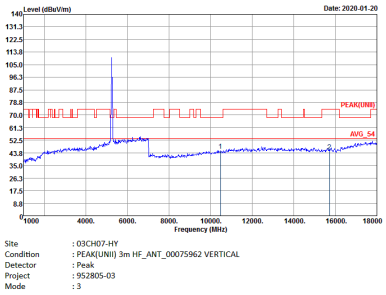
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

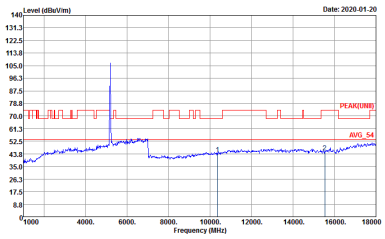
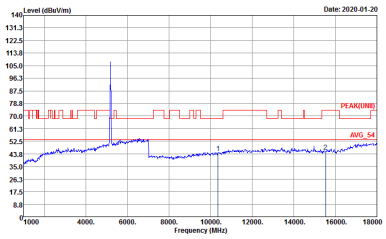
WIFI 802.11a (Harmonic @ 3m)

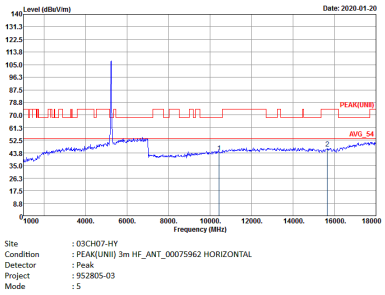
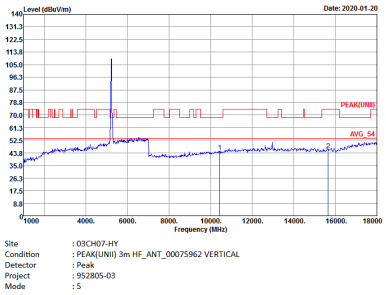
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

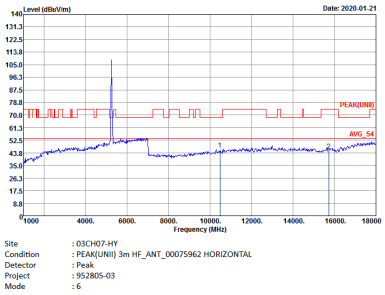
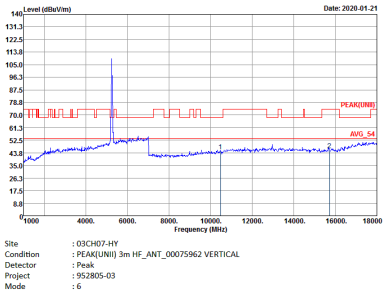
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 952805-03 Mode : 3	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 952805-03 Mode : 3

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

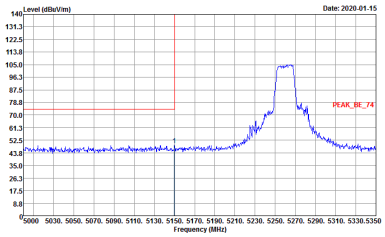
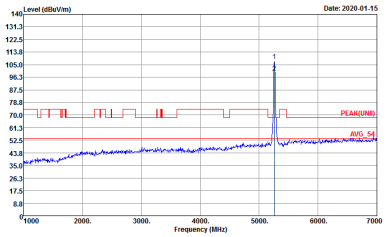
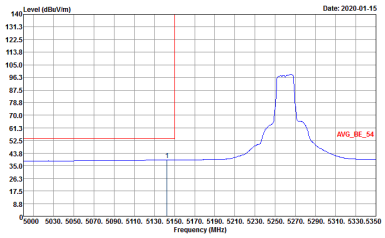
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 952805-03 Mode : 4	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 952805-03 Mode : 4

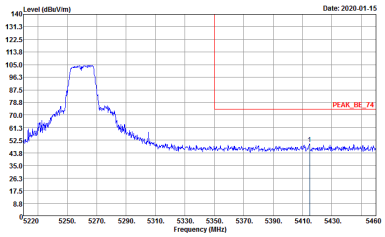
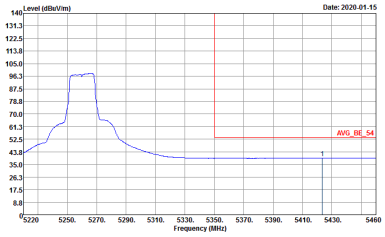
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

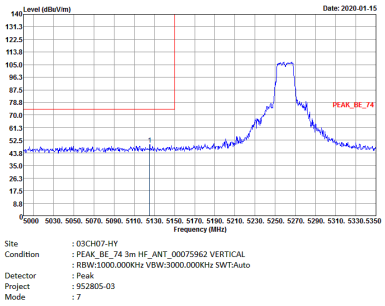
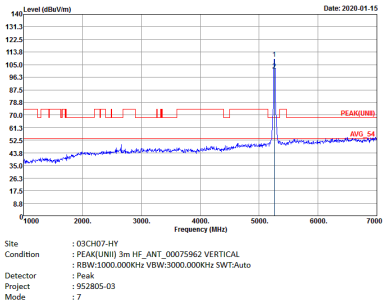
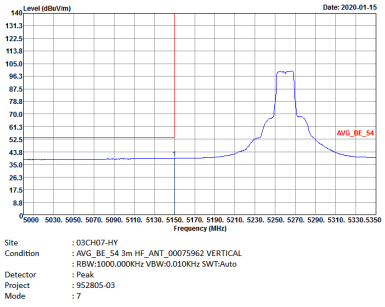
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

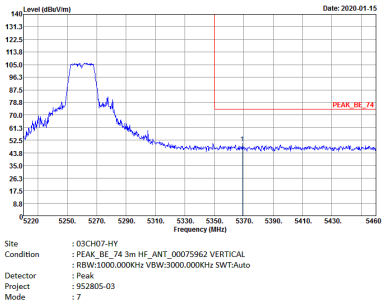
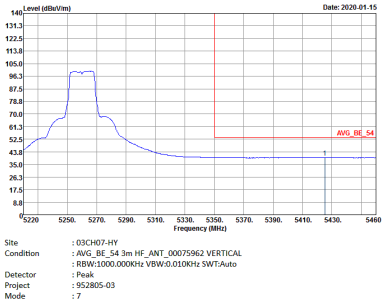
Band 2 - 5250~5350MHz

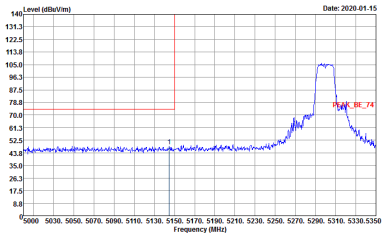
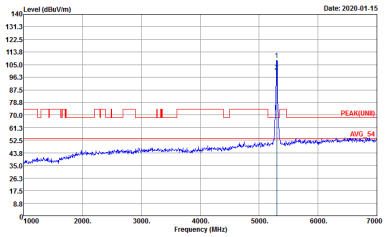
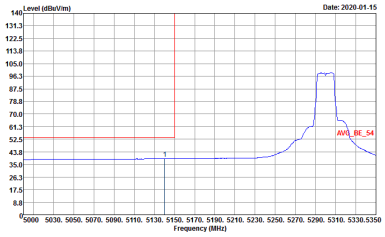
WIFI 802.11a (Band Edge @ 3m)

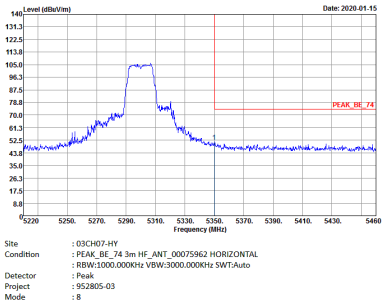
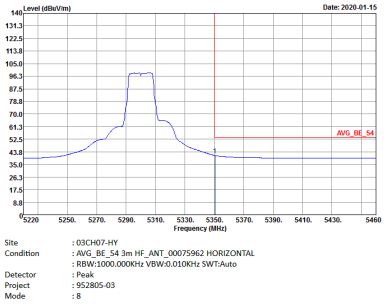
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 7	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 7
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 7	Left blank

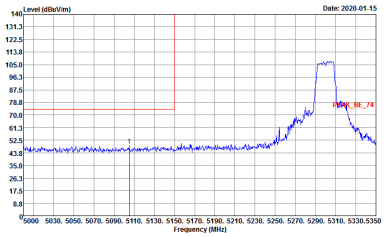
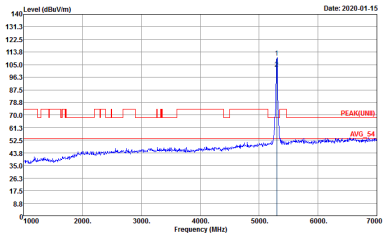
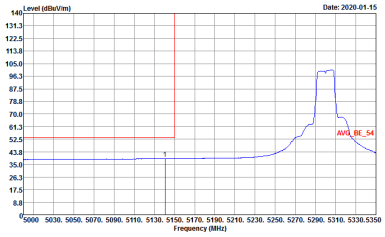
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 7	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 7	Left blank

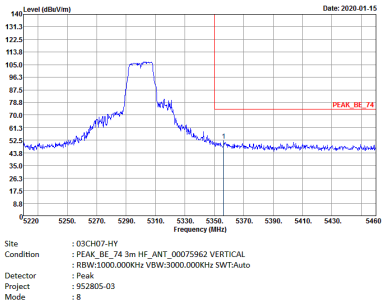
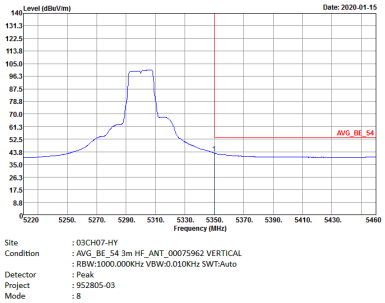
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

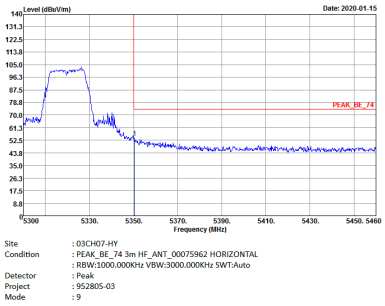
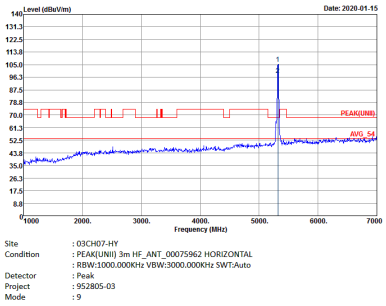
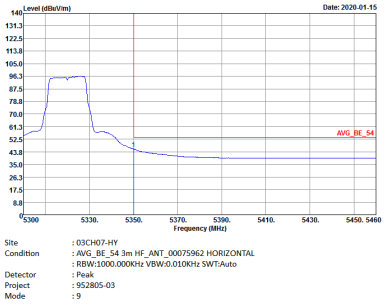
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

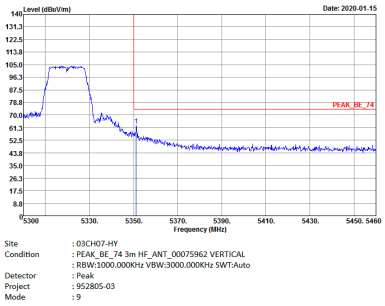
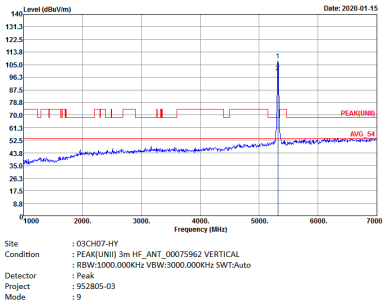
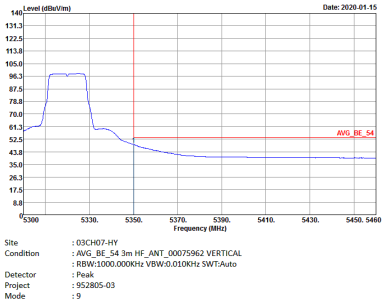
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 8	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 8
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 8	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

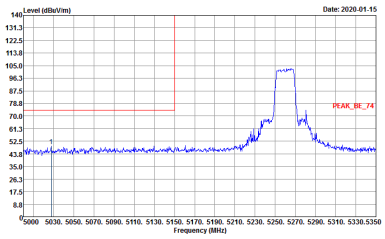
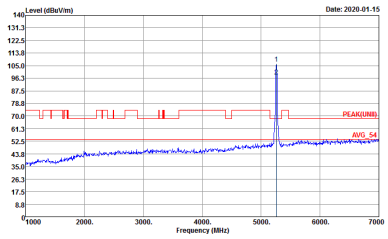
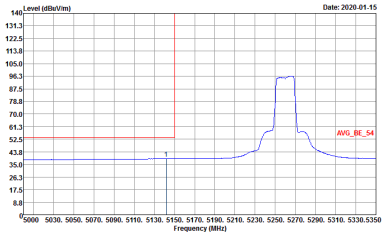
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 8	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 8
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 8	Left blank

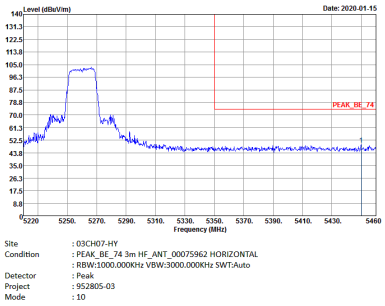
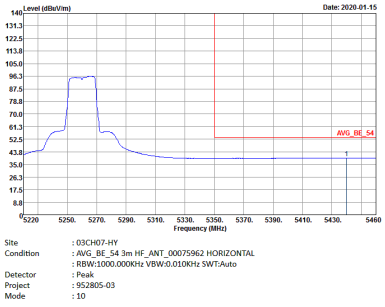
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

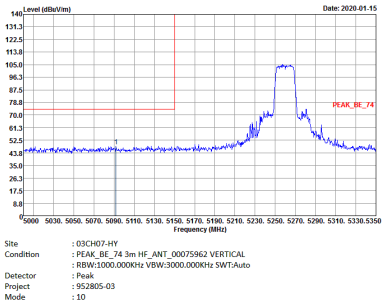
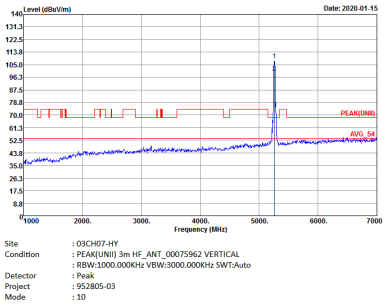
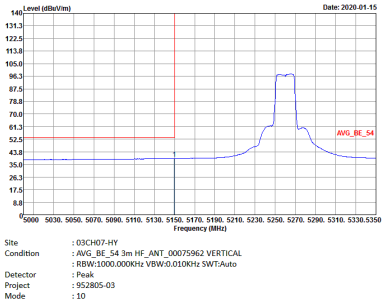
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

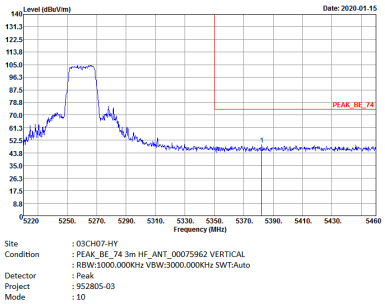
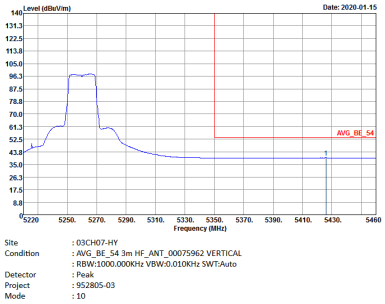
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

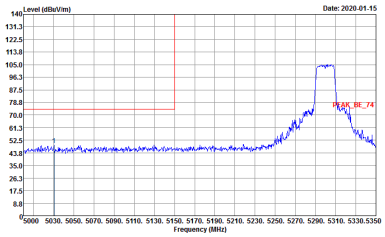
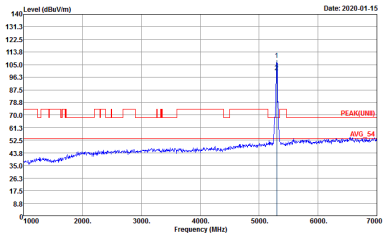
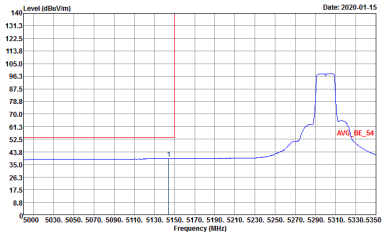
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

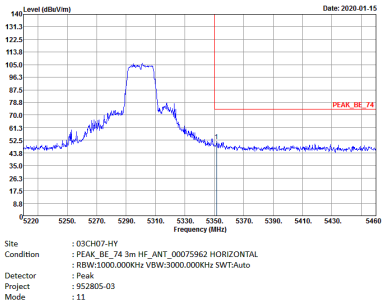
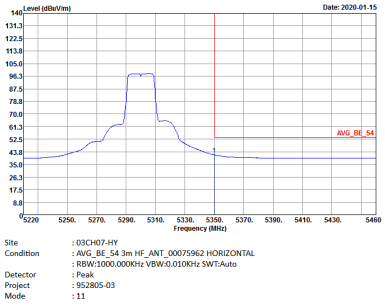
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

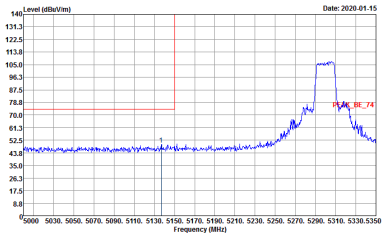
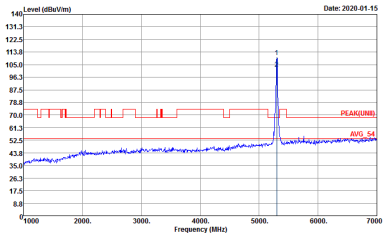
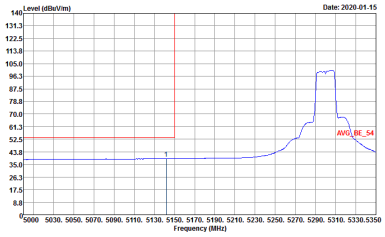
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

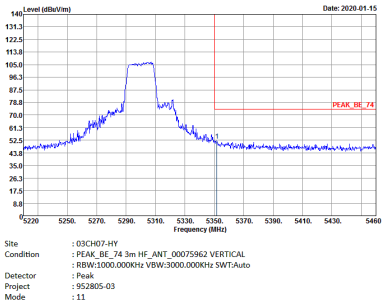
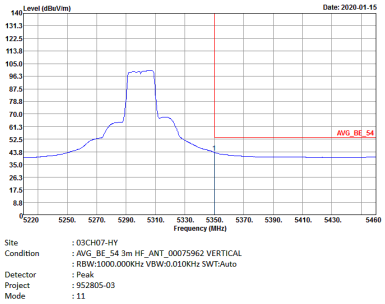
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

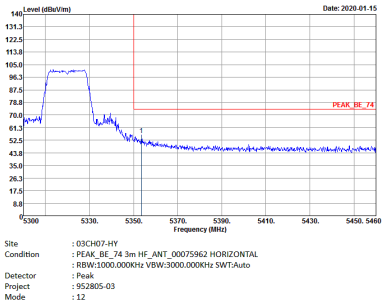
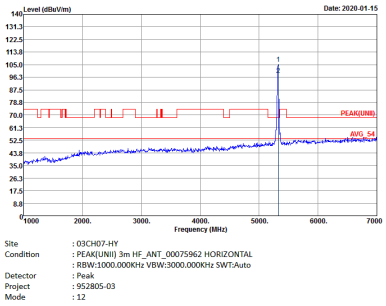
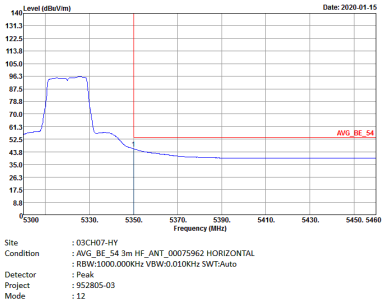
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

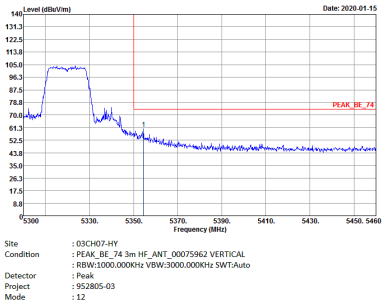
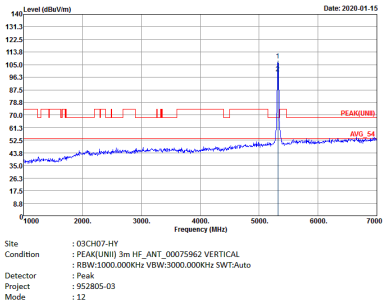
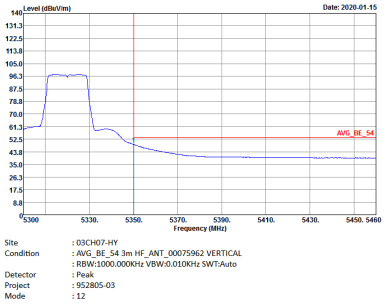
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 11	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 11
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 11	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	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 11	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 11
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 11	Left blank

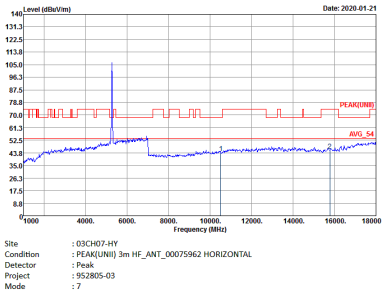
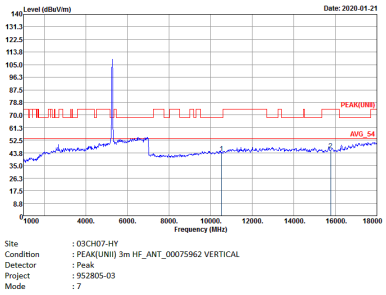
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

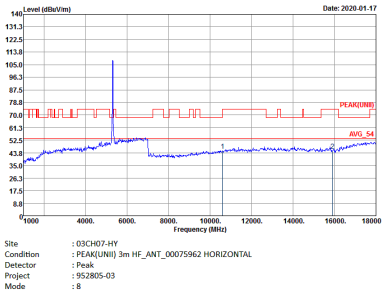
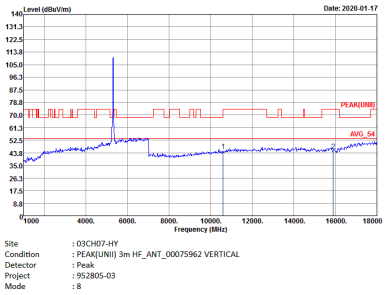
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

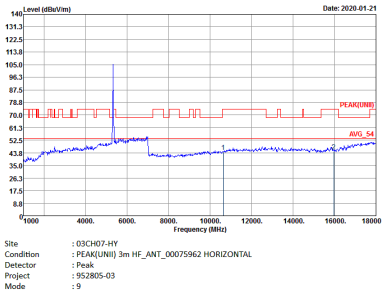
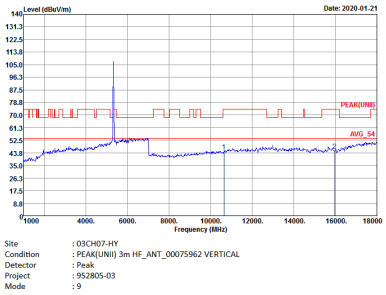
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

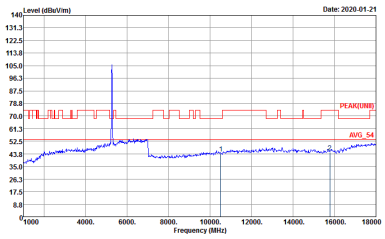
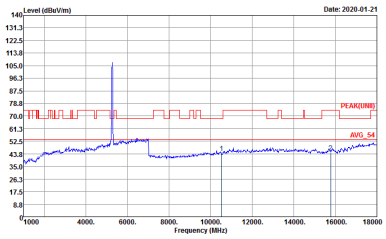
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

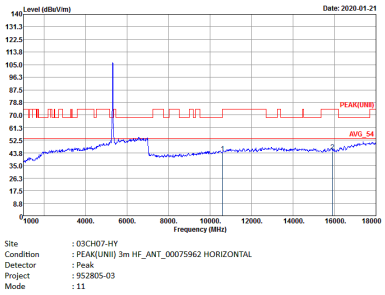
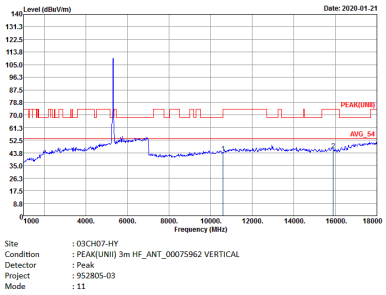
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

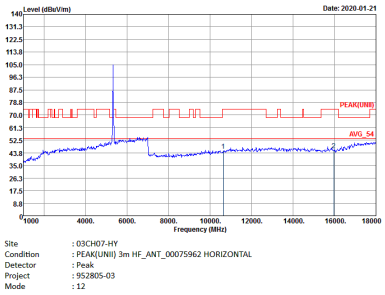
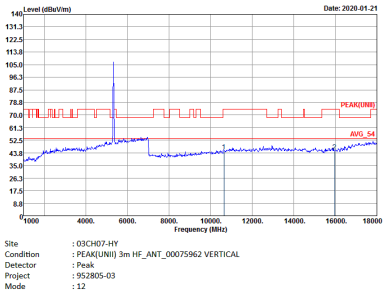
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 952805-03 Mode : 9	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 952805-03 Mode : 9

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

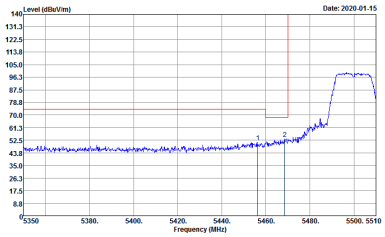
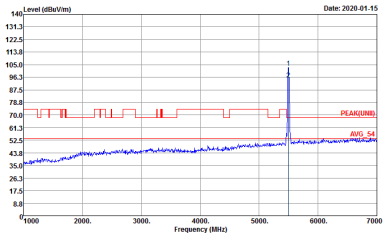
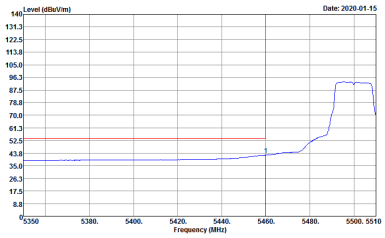
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 952805-03 Mode : 10	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 952805-03 Mode : 10

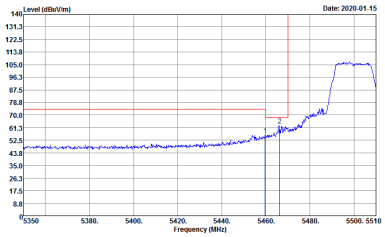
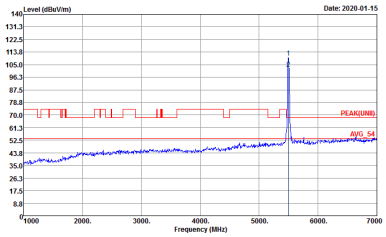
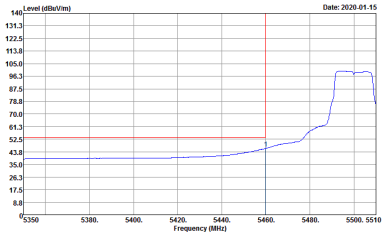
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

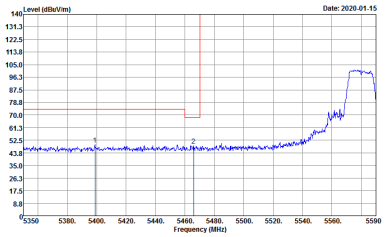
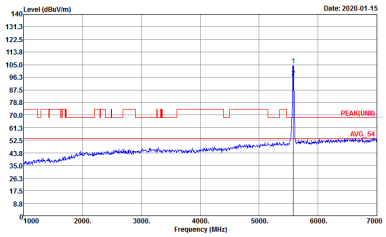
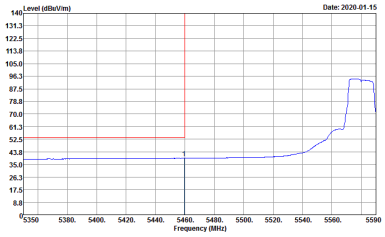
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

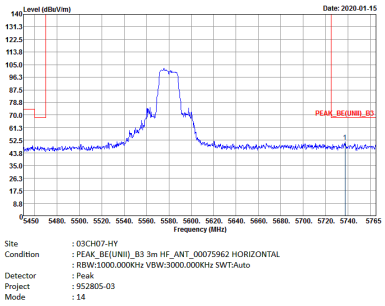
Band 3 - 5470~5725MHz

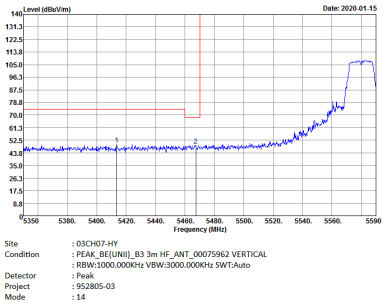
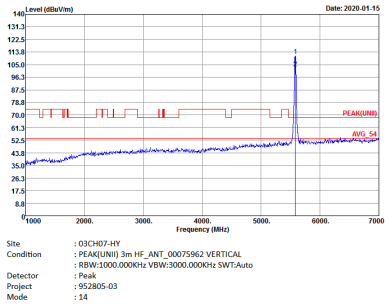
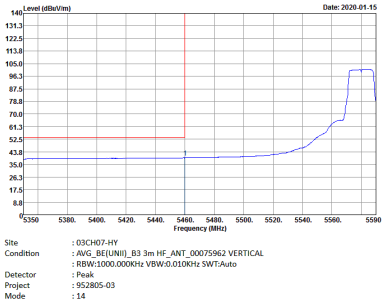
WIFI 802.11a (Band Edge @ 3m)

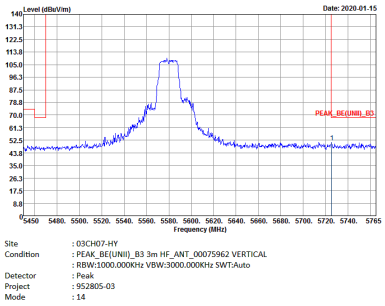
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 13	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 13
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 13	Left blank

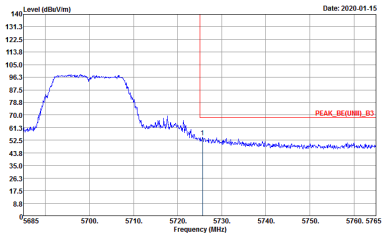
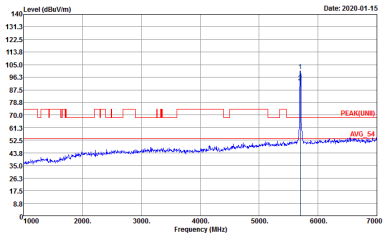
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 13	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 13
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 13	Left blank

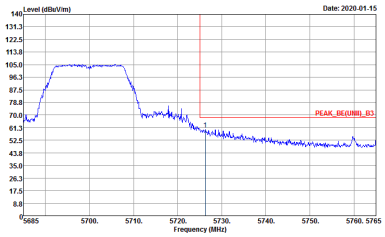
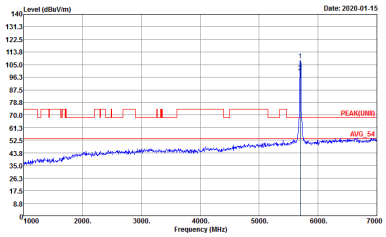
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 14	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 14
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 14	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 14	Left blank

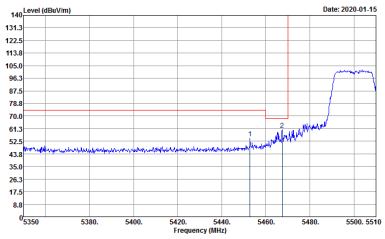
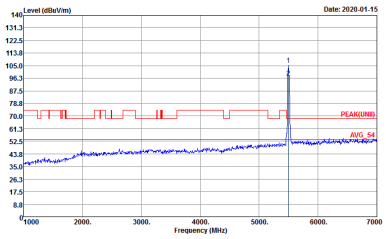
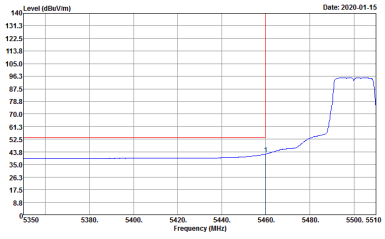
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

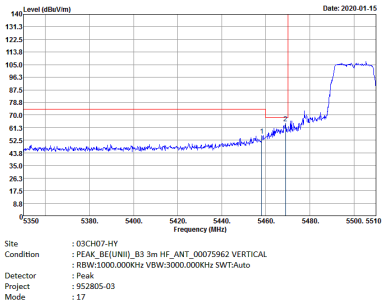
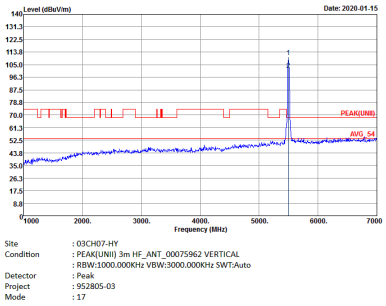
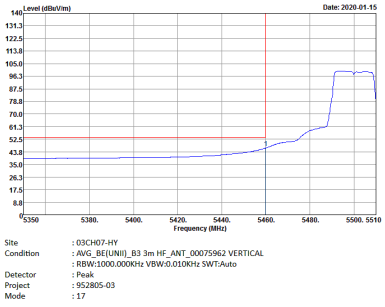
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 14	Left blank

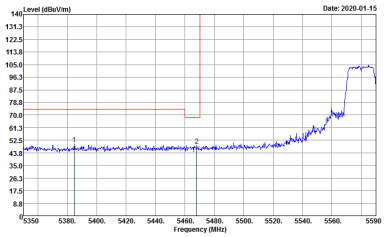
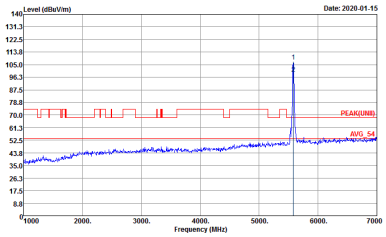
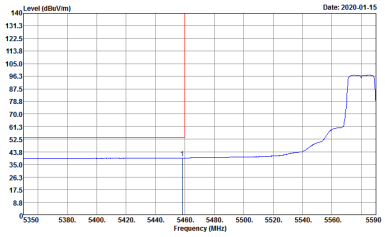
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 15	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 15

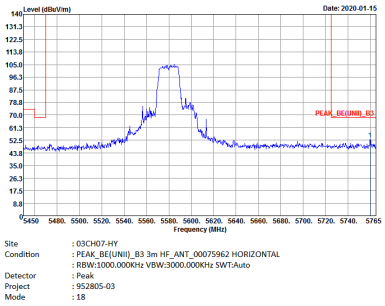
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 15	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 15

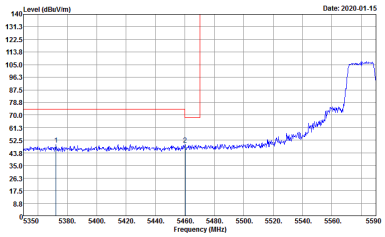
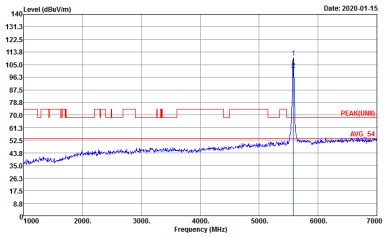
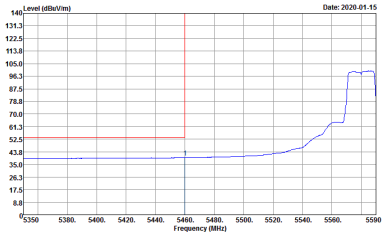
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

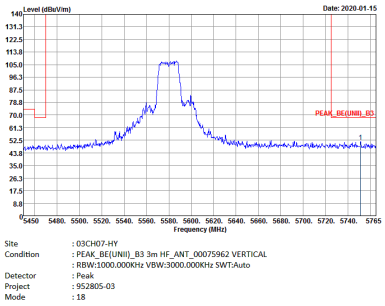
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 17	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 17
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 17	Left blank

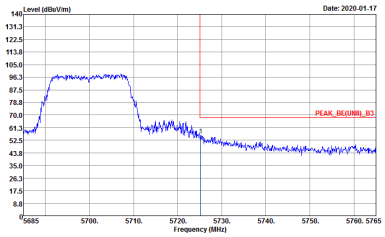
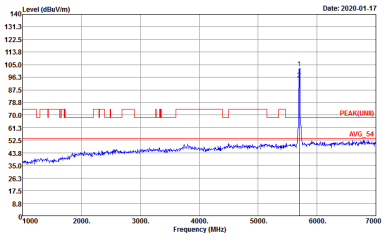
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

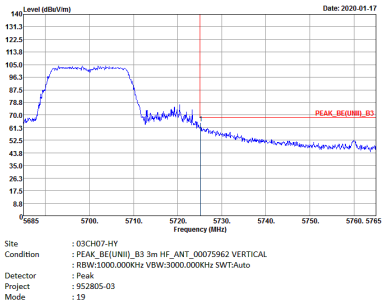
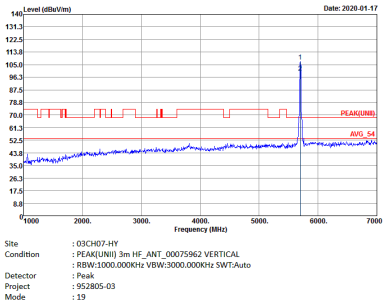
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 18	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 18
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 18	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 18	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
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 Detector : Peak Project : 952805-03 Mode : 18	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 18
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 18	Left blank

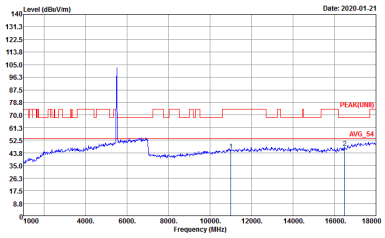
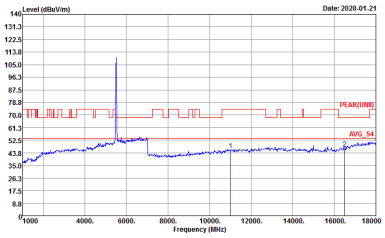
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 18	Left blank

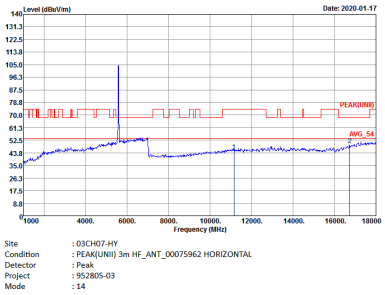
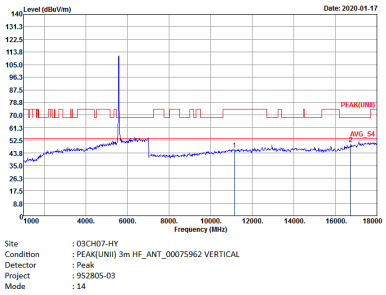
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII)_B3 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 19	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 19

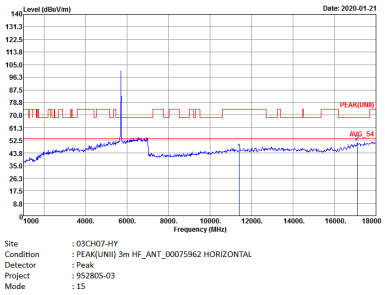
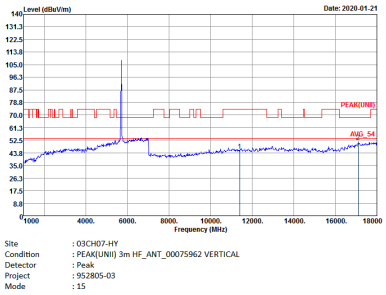
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

Band 3 - 5470~5725MHz

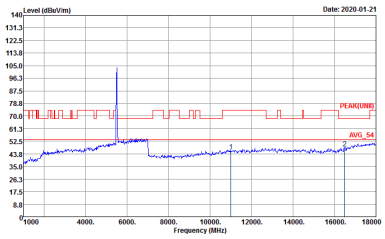
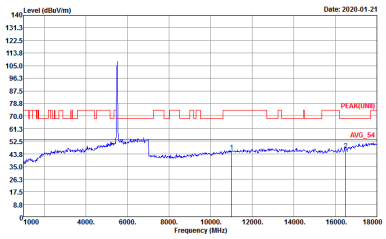
WIFI 802.11a (Harmonic @ 3m)

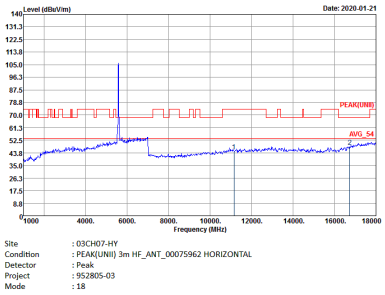
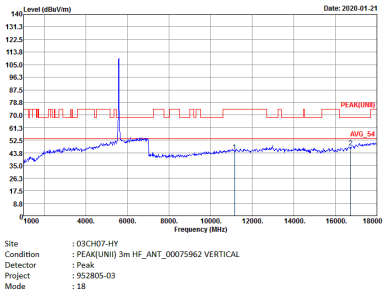
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 952805-03 Mode : 13	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 952805-03 Mode : 13

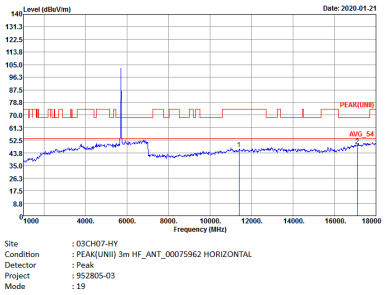
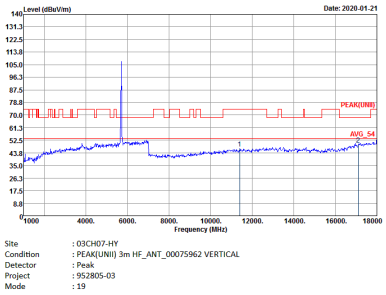
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

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)

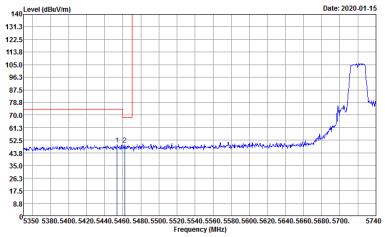
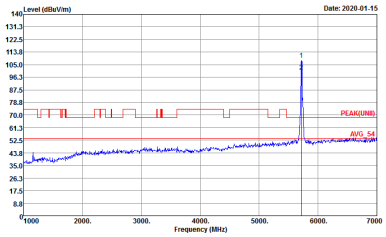
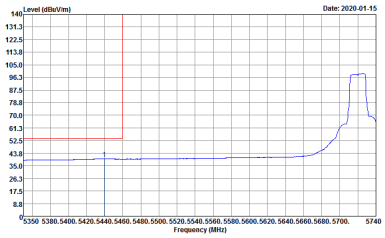
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 952805-03 Mode : 16	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 952805-03 Mode : 16

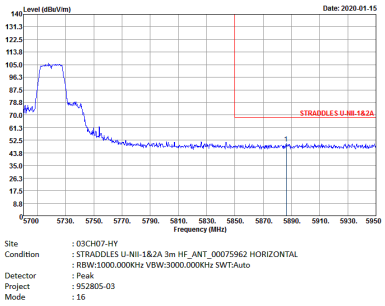
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 	

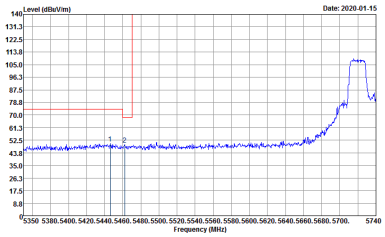
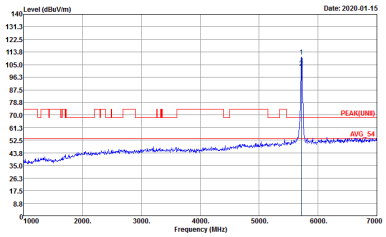
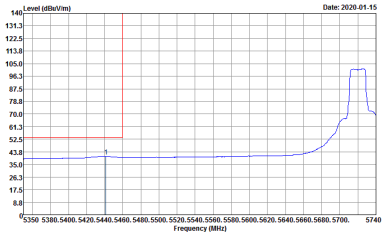
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	 	

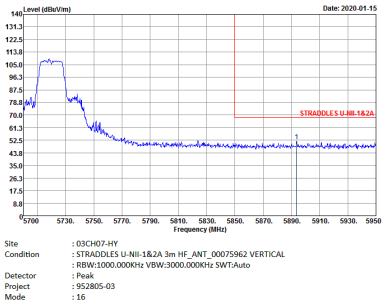
Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

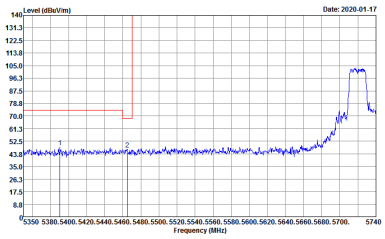
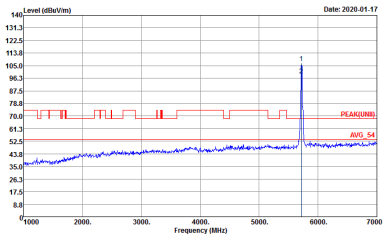
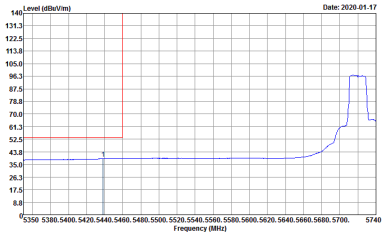
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : STRADDLES U-NII-1&2A 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 16	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 16
Avg.	 Site : 03CH07-HY Condition : U-NII-1&2A AVERAGE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 16	Left blank

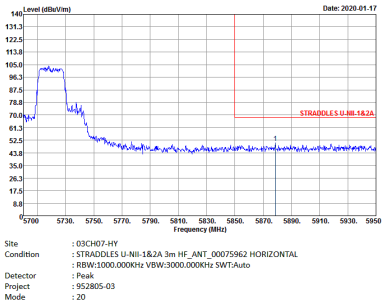
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

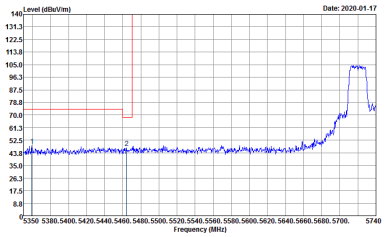
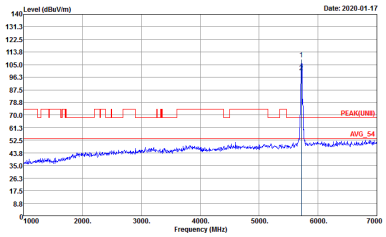
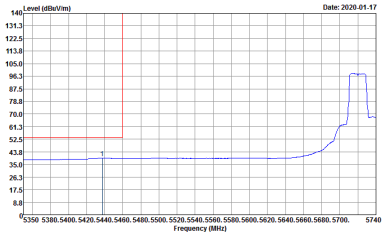
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : STRADDLES U-NII-1&2A 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 16	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 16
Avg.	 Site : 03CH07-HY Condition : U-NII-1&2A AVERAGE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 16	Left blank

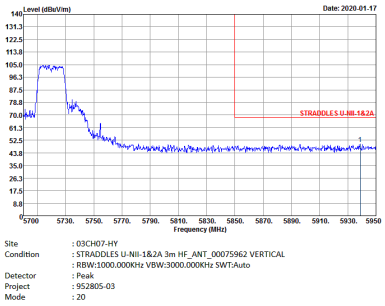
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

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	 Site : 03CH07-HY Condition : STRADDLES U-NII-1&2A 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 20	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 20
Avg.	 Site : 03CH07-HY Condition : U-NII-1&2A AVERAGE 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 20	Left blank

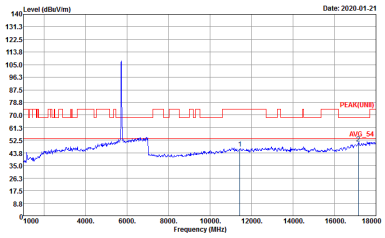
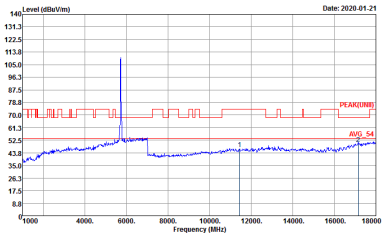
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.	Left blank	Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : STRADDLES U-NII-1&2A 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 20	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 20
Avg.	 Site : 03CH07-HY Condition : U-NII-1&2A AVERAGE 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 952805-03 Mode : 20	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

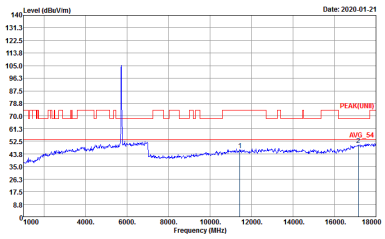
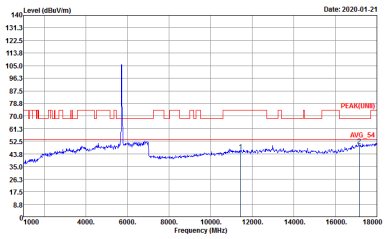
Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 952805-03 Mode : 16	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 952805-03 Mode : 16

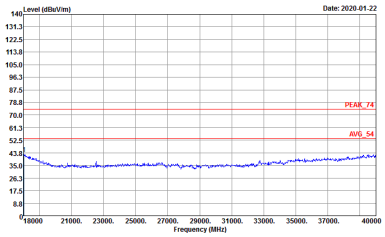
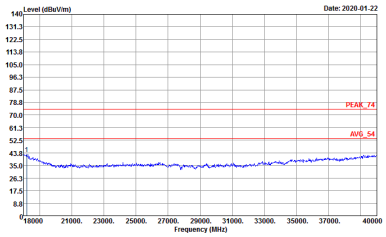
Band 3 – Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 952805-03 Mode : 20	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 952805-03 Mode : 20

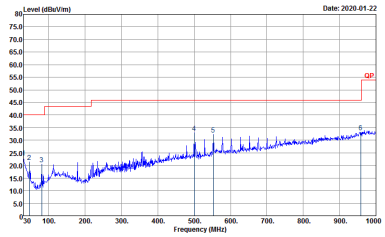
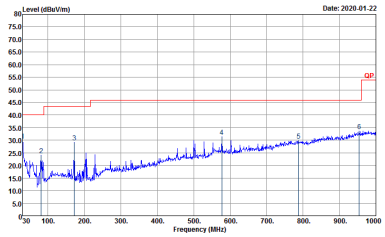
Emission above 18GHz

5GHz WIFI 802.11n HT20 (SHF)

WIFI	5GHz WIFI	
ANT	802.11n HT20 SHF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : PEAK_74 1m SHF-EHF_9170576 HORIZONTAL Detector : Peak Project : 952805-03 Mode : 22	 Site : 03CH07-HY Condition : PEAK_74 1m SHF-EHF_9170576 VERTICAL Detector : Peak Project : 952805-03 Mode : 22

Emission below 1GHz

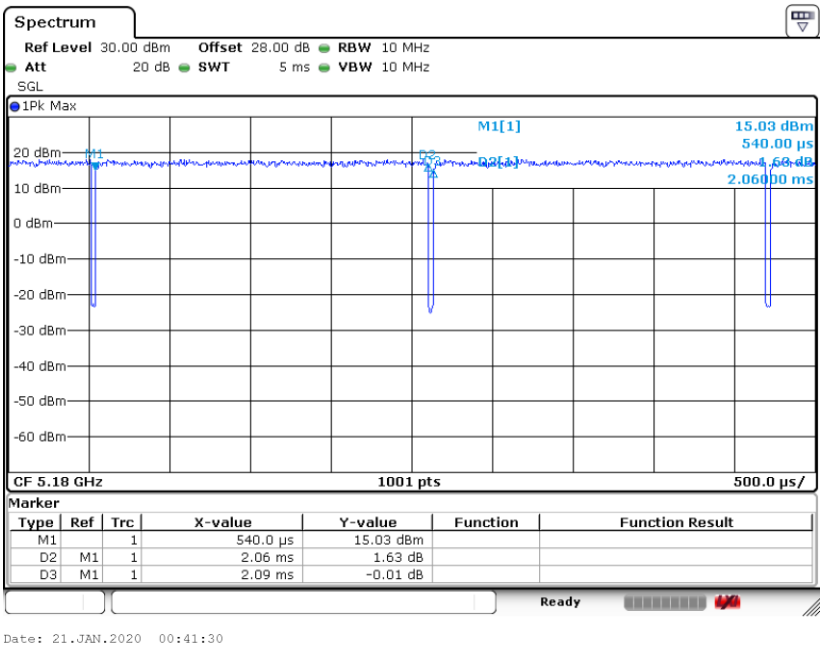
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 952805-03 Mode : 21	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 952805-03 Mode : 21

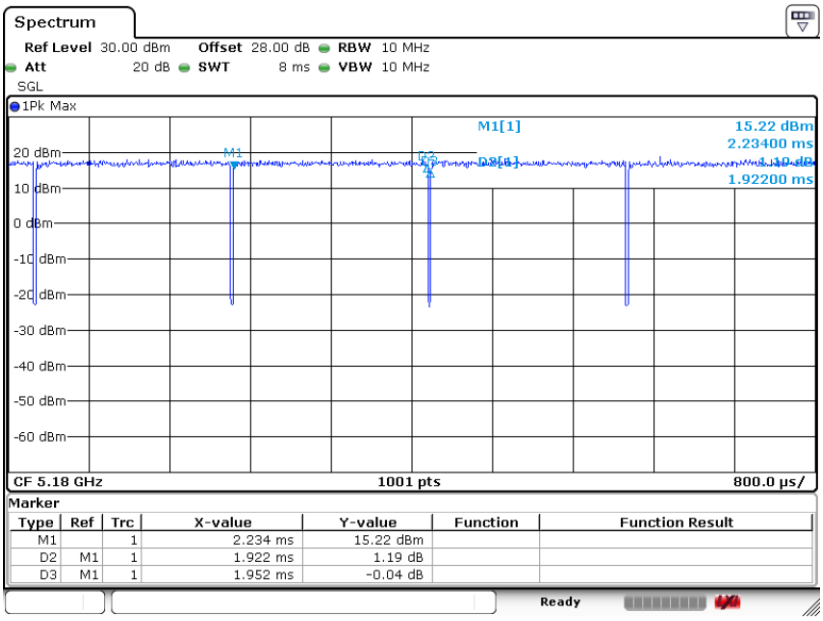
Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	98.56	-	-	10Hz	0.06
1	5GHz 802.11n HT20	98.46	-	-	10Hz	0.07
1	5GHz 802.11ac VHT20	98.47	-	-	10Hz	0.07

802.11a



802.11n HT20



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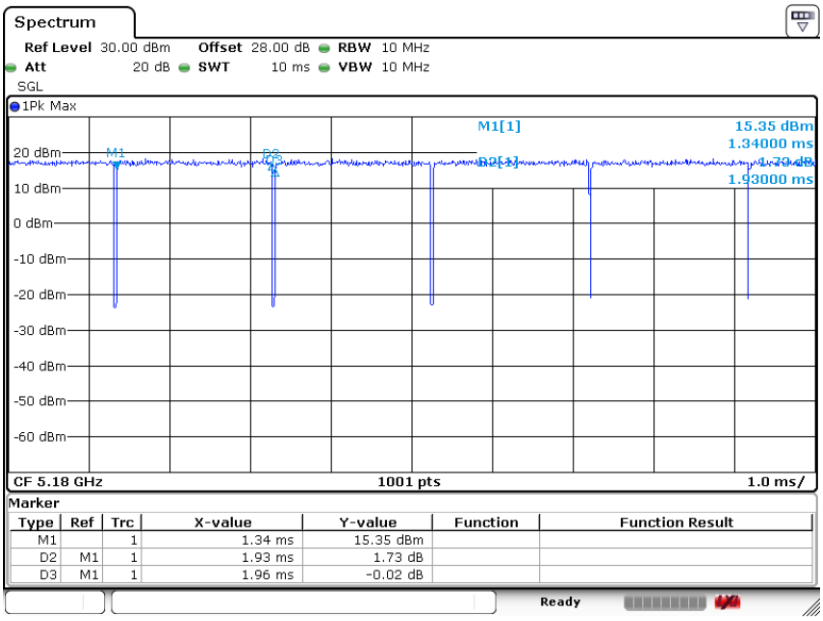
802.11ac VHT20



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