FCC RADIO TEST REPORT

FCC ID	:	**TX2-RTL8822C**
Equipment	:	**Module**
Brand Name	:	**Realtek**
Model Name	:	**RTL8822C**
Marketing Name	:	**11a/b/g/n/ac RTL8822C Combo module**
Applicant	:	**Realtek Semiconductor Corp. No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Aug. 12, 2021 and testing was started from Aug. 18, 2021 and completed on Aug. 31, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

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

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History of this test report

Report No.	Version	Description	Issued Date
FR180221D	01	Initial issue of report	Sep. 10, 2021
FR180221D	02	1. Revise antenna information 2. Revise support unit used in test configuration and system information	Sep. 17, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.403(i)	26dB Bandwidth	-	See Note
-	2.1049	99% Occupied Bandwidth	-	See Note
3.1	15.407(a)	Maximum Conducted Output Power	Pass	-
-	15.407(a)	Power Spectral Density	-	See Note
3.2	15.407(b)	Unwanted Emissions	Pass	Under limit 0.88 dB at 5150.000 MHz
3.3	15.207	AC Conducted Emission	Pass	Under limit 8.98 dB at 0.499 MHz
3.4	15.203 15.407(a)	Antenna Requirement	Pass	-

Note: The module (Model: RTL8822C) makes no difference after verifying output power, this report reuses test data from the module report.

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: Keven Cheng

Report Producer: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Installed into host	Equipment Name: Steam Deck Brand Name: Valve Model Name: 1010
Sample 1	Host with INPAQ Antenna
Sample 2	Host with AWAN Antenna
Sample 3	Host with High-Tek Antenna
Antenna Type	WLAN <Main>: PIFA Antenna <Aux.>: PIFA Antenna Bluetooth: PIFA Antenna

Antenna information (INPAQ Technology Co., Ltd.)		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	<Main>: 2.63 <Aux.>: 2.87
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	<Main>: 2.63 <Aux.>: 1.90
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	<Main>: 2.77 <Aux.>: 3.16

Antenna information (AWAN Advanced Wireless and Antenna INC.)		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	<Main>: 2.55 <Aux.>: 1.44
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	<Main>: 2.48 <Aux.>: 1.44
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	<Main>: 2.15 <Aux.>: 1.87

Antenna information (High-Tek Harness Enterprise Co Ltd.)		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	<Main>: 2.48 <Aux.>: 0.67
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	<Main>: 2.48 <Aux.>: 1.53
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	<Main>: 2.74 <Aux.>: 0.77

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

1.2 Modification of EUT

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

1.3 Testing Location

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

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH13-HY (TAF Code: 3786)
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

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

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

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

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

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

Note:

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

2.2 Test Mode

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

Single Mode

Modulation	Data Rate
802.11a	**6 Mbps**
802.11ac VHT20	**MCS0**
802.11ac VHT40	**MCS0**
802.11ac VHT80	**MCS0**

MIMO Mode

Modulation	Data Rate
802.11a	**6 Mbps**
802.11ac VHT20	**MCS0**
802.11ac VHT40	**MCS0**
802.11ac VHT80	**MCS0**

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

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	-	100
M	Middle	40	60	116
H	High	-	64	140

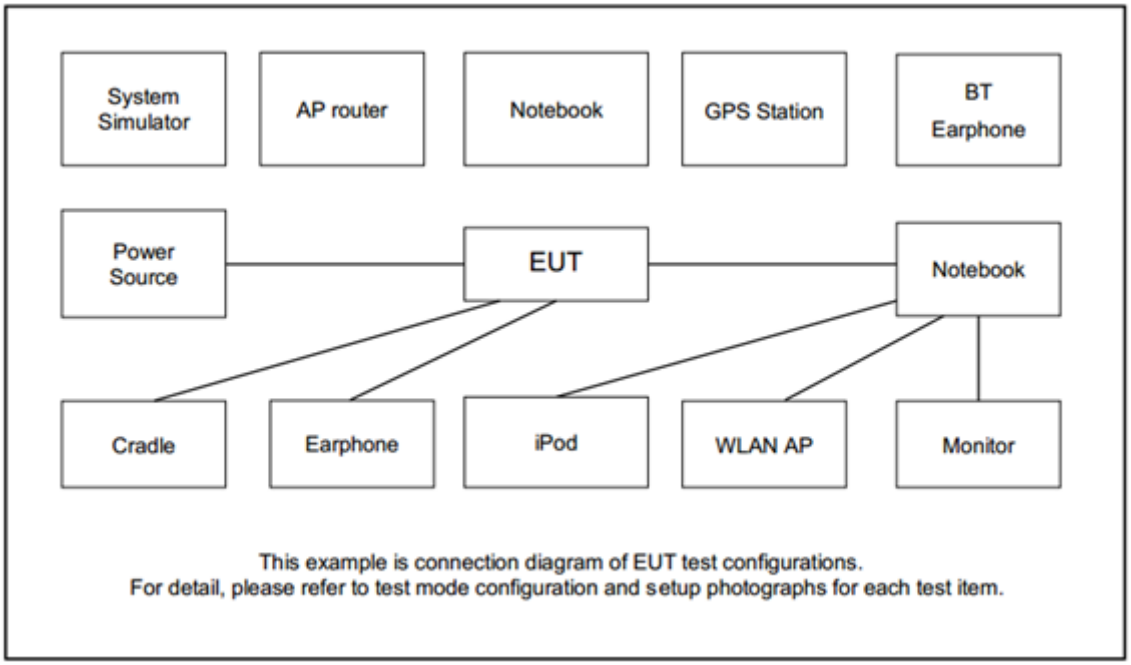
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	-	100
M	Middle	40	60	116
H	High	-	64	140

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

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

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Earphone	Sony	MH750	N/A	Unshielded 1.2m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “Terminal V3.36.2” was installed in Host 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.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 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.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

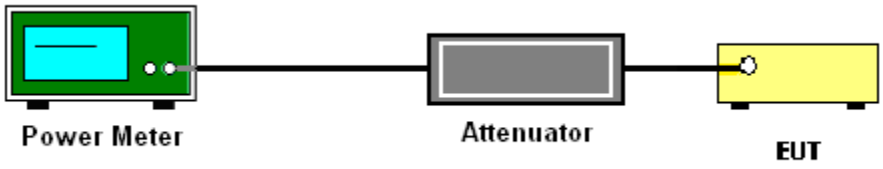
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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.

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

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

3.2.1 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.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

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

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

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

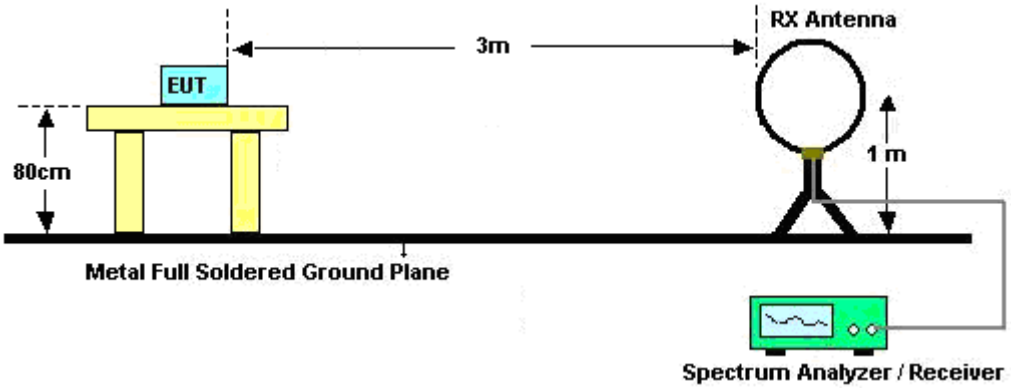
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

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

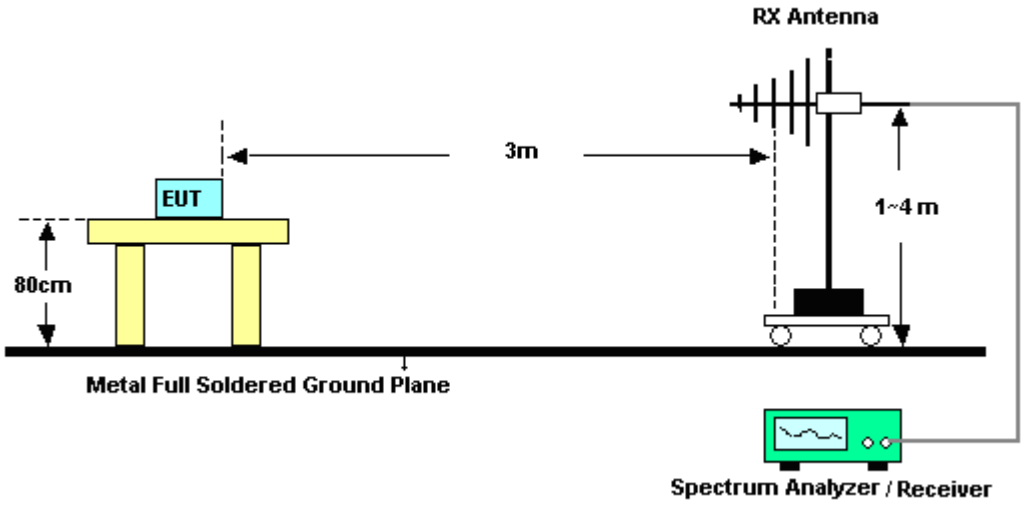
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.2.4 Test Setup

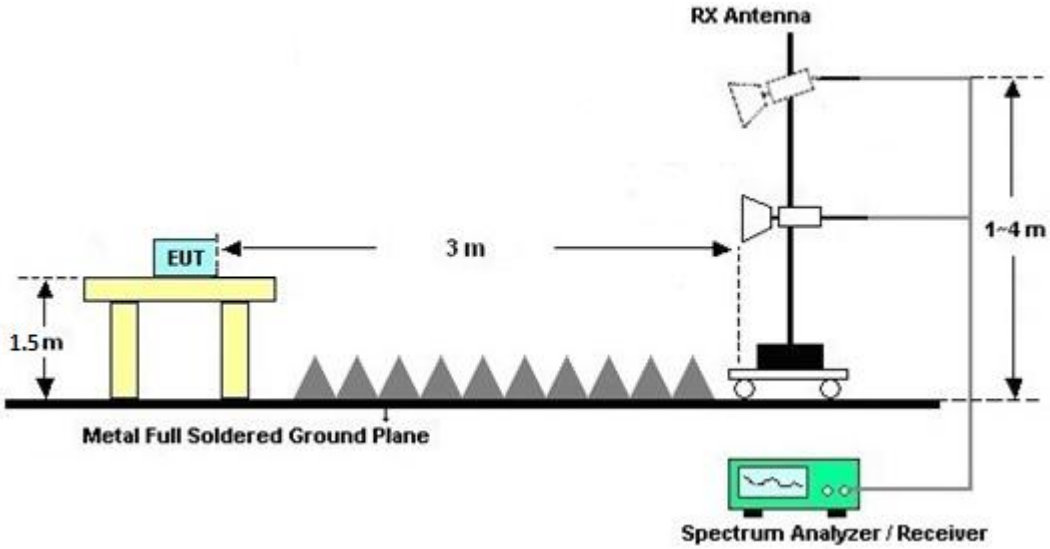
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test above 1GHz



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

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

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

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.2.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.3 AC Conducted Emission Measurement

3.3.1 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.

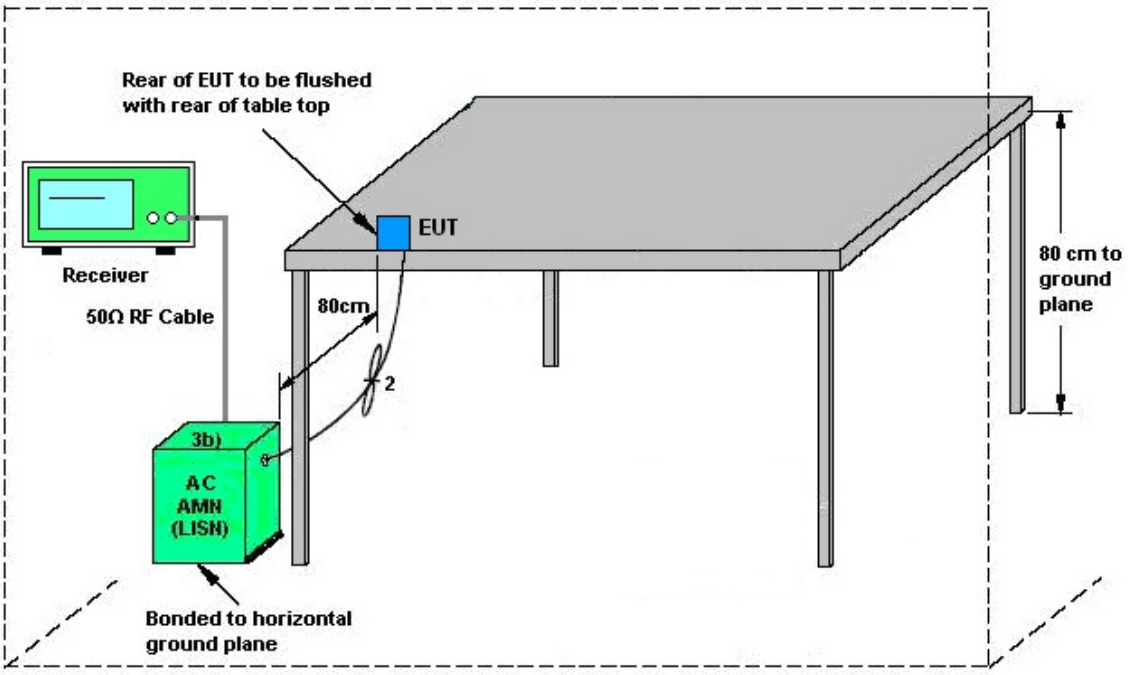
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

3.3.4 Test Setup



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

3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.4 Antenna Requirements

3.4.1 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.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Aug. 27, 2021~ Aug. 31, 2021	Jan. 03, 2022	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jul. 13, 2021	Aug. 27, 2021~ Aug. 31, 2021	Jul. 12, 2022	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz ~ 18GHz	Jun. 23, 2021	Aug. 27, 2021~ Aug. 31, 2021	Jun. 22, 2022	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 11, 2020	Aug. 27, 2021~ Aug. 31, 2021	Dec. 10, 2021	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 16, 2020	Aug. 27, 2021~ Aug. 31, 2021	Dec. 15, 2021	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 18, 2021	Aug. 27, 2021~ Aug. 31, 2021	May 17, 2022	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 28, 2020	Aug. 27, 2021~ Aug. 31, 2021	Oct. 27, 2021	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 11, 2020	Aug. 27, 2021~ Aug. 31, 2021	Dec. 10, 2021	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 18, 2021	Aug. 27, 2021~ Aug. 31, 2021	Mar. 17, 2022	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 27, 2021~ Aug. 31, 2021	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 27, 2021~ Aug. 31, 2021	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-000992	N/A	N/A	Aug. 27, 2021~ Aug. 31, 2021	N/A	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 10, 2021	Aug. 27, 2021~ Aug. 31, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 10, 2021	Aug. 27, 2021~ Aug. 31, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 22, 2021	Aug. 27, 2021~ Aug. 31, 2021	Feb. 21, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz~40GHz	Mar. 11, 2021	Aug. 27, 2021~ Aug. 31, 2021	Mar. 10, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M-18G	Feb. 10, 2021	Aug. 27, 2021~ Aug. 31, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Aug. 27, 2021~ Aug. 31, 2021	Mar. 10, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 15, 2020	Aug. 27, 2021~ Aug. 31, 2021	Sep. 14, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN5	6.75GHz High Pass Filter	Mar. 11, 2021	Aug. 27, 2021~ Aug. 31, 2021	Mar. 10, 2022	Radiation (03CH13-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 20, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Aug. 20, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Aug. 20, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	Aug. 20, 2021	Nov. 30, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 20, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Aug. 20, 2021	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Aug. 20, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 01, 2021	Aug.18, 2021~ Aug. 26, 2021	Feb, 28. 2022	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO12	10MHz~6GHz	Dec. 16, 2020	Aug.18, 2021~ Aug. 26, 2021	Dec. 15, 2021	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Nov. 13, 2020	Aug.18, 2021~ Aug. 26, 2021	Nov. 12, 2021	Conducted (TH02-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Aug.18, 2021~ Aug. 26, 2021	Mar. 16, 2022	Conducted (TH02-HY)

5 Uncertainty of Evaluation

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

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

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.8 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.9 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Junyu Jhou	Temperature:	24.6~25.1	°C
Test Date:	2021/8/18~2021/8/26	Relative Humidity:	49.2~50.7	%

Remark: For Conducted Test Items, Ant. 1 means Chain 0 and Ant. 2 means Chain 1.

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	15.80	15.80		24.00	24.00	2.63	2.87		Pass
11a	6Mbps	1	40	5200	15.80	15.80		24.00	24.00	2.63	2.87		Pass
11a	6Mbps	1	48	5240	15.80	15.70		24.00	24.00	2.63	2.87		Pass
VHT20	MCS0	1	36	5180	15.80	15.90		24.00	24.00	2.63	2.87		Pass
VHT20	MCS0	1	40	5200	15.80	15.70		24.00	24.00	2.63	2.87		Pass
VHT20	MCS0	1	48	5240	15.80	15.80		24.00	24.00	2.63	2.87		Pass
VHT40	MCS0	1	38	5190	15.40	15.30		24.00	24.00	2.63	2.87		Pass
VHT40	MCS0	1	46	5230	15.40	15.40		24.00	24.00	2.63	2.87		Pass
VHT80	MCS0	1	42	5210	15.40	15.30		24.00	24.00	2.63	2.87		Pass

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	15.80	15.90	18.86	24.00		2.87			Pass
11a	6Mbps	2	40	5200	15.90	15.90	18.91	24.00		2.87			Pass
11a	6Mbps	2	48	5240	15.90	15.80	18.86	24.00		2.87			Pass
VHT20	MCS0	2	36	5180	15.80	15.80	18.81	24.00		2.87			Pass
VHT20	MCS0	2	40	5200	15.90	15.70	18.81	24.00		2.87			Pass
VHT20	MCS0	2	48	5240	15.80	15.90	18.86	24.00		2.87			Pass
VHT40	MCS0	2	38	5190	15.40	15.40	18.41	24.00		2.87			Pass
VHT40	MCS0	2	46	5230	15.40	15.30	18.36	24.00		2.87			Pass
VHT80	MCS0	2	42	5210	15.40	15.40	18.41	24.00		2.87			Pass

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	15.70		23.98	23.98	2.63	1.90	30	Pass
11a	6Mbps	1	60	5300	15.70	15.80		23.98	23.98	2.63	1.90	30	Pass
11a	6Mbps	1	64	5320	15.80	15.80		23.98	23.98	2.63	1.90	30	Pass
VHT20	MCS0	1	52	5260	15.90	15.80		23.98	23.98	2.63	1.90	30	Pass
VHT20	MCS0	1	60	5300	15.80	15.80		23.98	23.98	2.63	1.90	30	Pass
VHT20	MCS0	1	64	5320	15.90	15.80		23.98	23.98	2.63	1.90	30	Pass
VHT40	MCS0	1	54	5270	15.40	15.30		23.98	23.98	2.63	1.90	30	Pass
VHT40	MCS0	1	62	5310	15.40	15.30		23.98	23.98	2.63	1.90	30	Pass
VHT80	MCS0	1	58	5290	15.30	15.40		23.98	23.98	2.63	1.90	30	Pass

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	15.90	15.80	18.86	23.98		2.63		30	Pass
11a	6Mbps	2	60	5300	15.90	15.90	18.91	23.98		2.63		30	Pass
11a	6Mbps	2	64	5320	15.80	15.80	18.81	23.98		2.63		30	Pass
VHT20	MCS0	2	52	5260	15.90	15.80	18.86	23.98		2.63		30	Pass
VHT20	MCS0	2	60	5300	15.80	15.80	18.81	23.98		2.63		30	Pass
VHT20	MCS0	2	64	5320	15.80	15.80	18.81	23.98		2.63		30	Pass
VHT40	MCS0	2	54	5270	15.30	15.30	18.31	23.98		2.63		30	Pass
VHT40	MCS0	2	62	5310	15.40	15.40	18.41	23.98		2.63		30	Pass
VHT80	MCS0	2	58	5290	15.40	15.30	18.36	23.98		2.63		30	Pass

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	15.70	15.80		23.98	23.98	2.77	3.16	30	Pass
11a	6Mbps	1	116	5580	15.90	15.80		23.98	23.98	2.77	3.16	30	Pass
11a	6Mbps	1	140	5700	15.70	15.80		23.98	23.98	2.77	3.16	30	Pass
VHT20	MCS0	1	100	5500	15.80	15.80		23.98	23.98	2.77	3.16	30	Pass
VHT20	MCS0	1	116	5580	15.70	15.90		23.98	23.98	2.77	3.16	30	Pass
VHT20	MCS0	1	140	5700	15.80	15.80		23.98	23.98	2.77	3.16	30	Pass
VHT40	MCS0	1	102	5510	15.40	15.30		23.98	23.98	2.77	3.16	30	Pass
VHT40	MCS0	1	110	5550	15.30	15.40		23.98	23.98	2.77	3.16	30	Pass
VHT40	MCS0	1	134	5670	15.30	15.30		23.98	23.98	2.77	3.16	30	Pass
VHT80	MCS0	1	106	5530	14.30	13.30		23.98	23.98	2.77	3.16	30	Pass
VHT80	MCS0	1	122	5610	15.40	15.30		23.98	23.98	2.77	3.16	30	Pass

FCC Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	15.90	15.90	18.91	23.98		3.16		30	Pass
11a	6Mbps	2	116	5580	15.90	15.80	18.86	23.98		3.16		30	Pass
11a	6Mbps	2	140	5700	15.80	15.80	18.81	23.98		3.16		30	Pass
VHT20	MCS0	2	100	5500	15.70	15.80	18.76	23.98		3.16		30	Pass
VHT20	MCS0	2	116	5580	15.80	15.80	18.81	23.98		3.16		30	Pass
VHT20	MCS0	2	140	5700	15.90	15.90	18.91	23.98		3.16		30	Pass
VHT40	MCS0	2	102	5510	15.40	15.30	18.36	23.98		3.16		30	Pass
VHT40	MCS0	2	110	5550	15.40	15.30	18.36	23.98		3.16		30	Pass
VHT40	MCS0	2	134	5670	15.40	15.40	18.41	23.98		3.16		30	Pass
VHT80	MCS0	2	106	5530	14.40	13.30	16.90	23.98		3.16		30	Pass
VHT80	MCS0	2	122	5610	15.40	15.40	18.41	23.98		3.16		30	Pass

FCC Band III straddle channel single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	15.80	15.80		23.98	23.98	2.77	3.16	30	Pass
VHT20	MCS0	1	144	5720	15.90	15.80		23.98	23.98	2.77	3.16	30	Pass
VHT40	MCS0	1	142	5710	15.30	15.30		23.98	23.98	2.77	3.16	30	Pass
VHT80	MCS0	1	138	5690	15.40	15.40		23.98	23.98	2.77	3.16	30	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720	15.90	15.90	18.91	23.98		3.16		30	Pass
VHT20	MCS0	2	144	5720	15.80	15.90	18.86	23.98		3.16		30	Pass
VHT40	MCS0	2	142	5710	15.40	15.40	18.41	23.98		3.16		30	Pass
VHT80	MCS0	2	138	5690	15.40	15.20	18.31	23.98		3.16		30	Pass

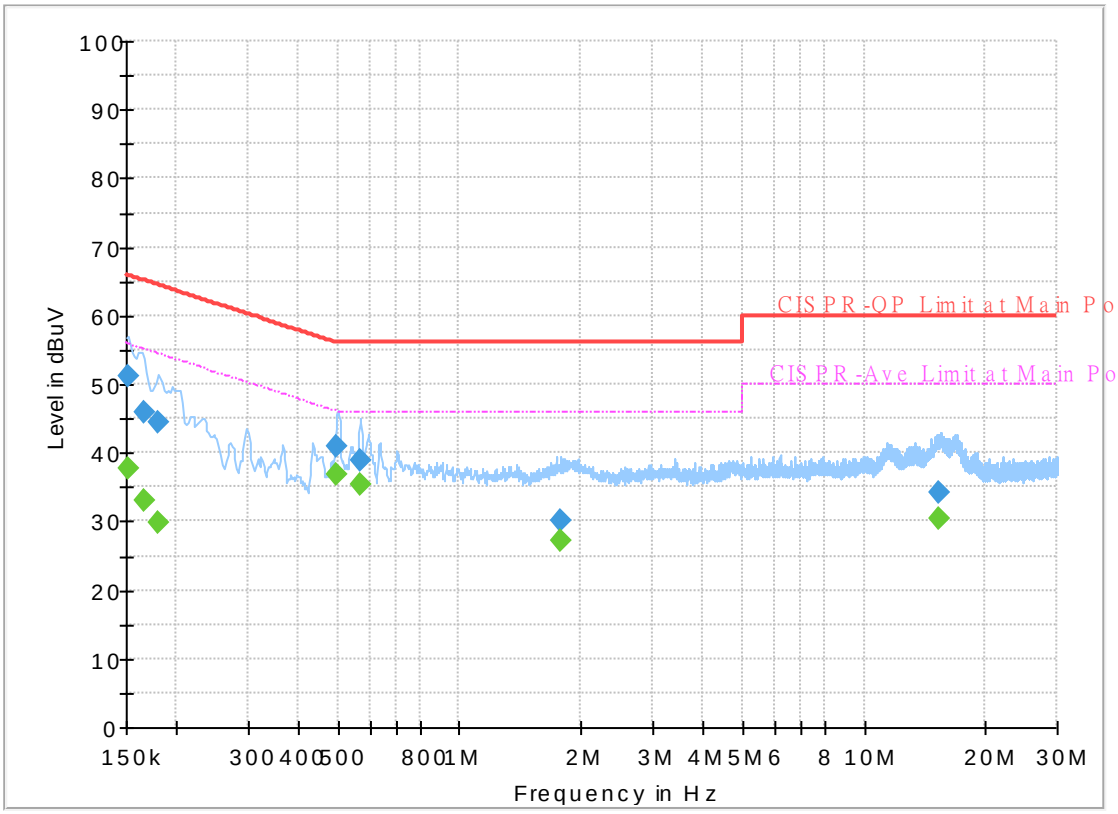
Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO :	180221
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



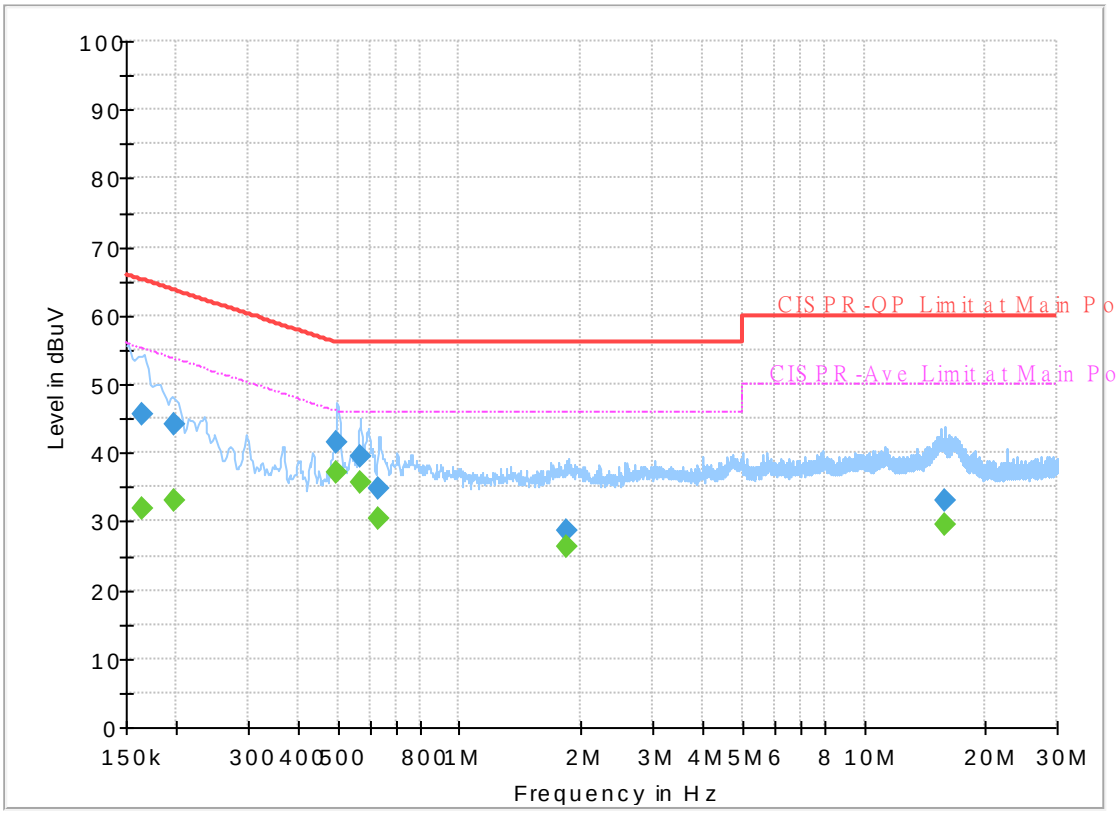
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	37.72	55.88	18.16	L1	OFF	19.6
0.152250	51.18	---	65.88	14.70	L1	OFF	19.6
0.165750	---	33.05	55.17	22.12	L1	OFF	19.6
0.165750	45.85	---	65.17	19.32	L1	OFF	19.6
0.179250	---	29.84	54.52	24.68	L1	OFF	19.6
0.179250	44.35	---	64.52	20.17	L1	OFF	19.6
0.498750	---	36.80	46.02	9.22	L1	OFF	19.8
0.498750	40.82	---	56.02	15.20	L1	OFF	19.8
0.568500	---	35.31	46.00	10.69	L1	OFF	19.9
0.568500	39.00	---	56.00	17.00	L1	OFF	19.9
1.783500	---	27.10	46.00	18.90	L1	OFF	20.2
1.783500	30.25	---	56.00	25.75	L1	OFF	20.2
15.310500	---	30.50	50.00	19.50	L1	OFF	20.3
15.310500	34.26	---	60.00	25.74	L1	OFF	20.3

EUT Information

Report NO :	180221
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)
0.163500	---	31.86	55.28	23.42	N	OFF	19.7
0.163500	45.74	---	65.28	19.54	N	OFF	19.7
0.197250	---	33.01	53.73	20.72	N	OFF	19.7
0.197250	44.18	---	63.73	19.55	N	OFF	19.7
0.498750	---	37.04	46.02	8.98	N	OFF	19.8
0.498750	41.40	---	56.02	14.62	N	OFF	19.8
0.568500	---	35.69	46.00	10.31	N	OFF	19.9
0.568500	39.40	---	56.00	16.60	N	OFF	19.9
0.631500	---	30.41	46.00	15.59	N	OFF	19.9
0.631500	34.75	---	56.00	21.25	N	OFF	19.9
1.833000	---	26.19	46.00	19.81	N	OFF	20.2
1.833000	28.71	---	56.00	27.29	N	OFF	20.2
15.767250	---	29.52	50.00	20.48	N	OFF	20.4
15.767250	33.07	---	60.00	26.93	N	OFF	20.4

Appendix C. Radiated Spurious Emission

Test Engineer :	Yuan Lee, Jacky Hong, and Wilson Wu	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

Remark: For Radiated Spurious Emission Test Items, Ant. 1 means Chain 0 and Ant. 2 means Chain 1.

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.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.5	52.8	-21.2	74	41.73	32.2	6.28	27.41	109	217	P	H
		5150	42.92	-11.08	54	31.85	32.2	6.28	27.41	109	217	A	H
	*	5180	105.29	-	-	94.33	32.08	6.28	27.4	109	217	P	H
	*	5180	96.75	-	-	85.79	32.08	6.28	27.4	109	217	A	H
													H
													H
		5109.72	53.07	-20.93	74	42.1	32.12	6.27	27.42	295	41	P	V
		5150	43.2	-10.8	54	32.13	32.2	6.28	27.41	295	41	A	V
	*	5180	106.31	-	-	95.35	32.08	6.28	27.4	295	41	P	V
	*	5180	98.08	-	-	87.12	32.08	6.28	27.4	295	41	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 40 5200MHz		10400	47.35	-20.85	68.2	53.54	40.1	9.55	56.46	100	0	P	H
		15600	45.67	-28.33	74	50.5	39.2	11.57	56.06	100	0	P	H
													H
													H
													H
													H
		10400	48.17	-20.03	68.2	54.36	40.1	9.55	56.46	100	0	P	V
		15600	45.99	-28.01	74	50.82	39.2	11.57	56.06	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5149.76	54.34	-19.66	74	43.27	32.2	6.28	27.41	100	217	P	H
		5150	43.74	-10.26	54	32.67	32.2	6.28	27.41	100	217	A	H
	*	5180	103.83	-	-	92.87	32.08	6.28	27.4	100	217	P	H
	*	5180	96.22	-	-	85.26	32.08	6.28	27.4	100	217	A	H
802.11ac													H
VHT20													H
CH 36		5147.94	57.88	-16.12	74	46.81	32.2	6.28	27.41	292	41	P	V
5180MHz		5150	43.89	-10.11	54	32.82	32.2	6.28	27.41	292	41	A	V
	*	5180	105.99	-	-	95.03	32.08	6.28	27.4	292	41	P	V
	*	5180	98.19	-	-	87.23	32.08	6.28	27.4	292	41	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10400	47.08	-21.12	68.2	53.27	40.1	9.55	56.46	100	0	P	H
		15600	46.62	-27.38	74	51.45	39.2	11.57	56.06	100	0	P	H
													H
													H
802.11ac													H
VHT20													H
CH 40		10400	47.06	-21.14	68.2	53.25	40.1	9.55	56.46	100	0	P	V
5200MHz		15600	46.21	-27.79	74	51.04	39.2	11.57	56.06	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz		5149.5	56.14	-17.86	74	45.07	32.2	6.28	27.41	100	218	P	H
		5150	47.31	-6.69	54	36.24	32.2	6.28	27.41	100	218	A	H
	*	5190	100.46	-	-	89.53	32.04	6.29	27.4	100	218	P	H
	*	5190	92.76	-	-	81.83	32.04	6.29	27.4	100	218	A	H
		5458.6	50.54	-23.46	74	39.53	31.93	6.41	27.33	100	218	P	H
		5459.16	40.92	-13.08	54	29.9	31.94	6.41	27.33	100	218	A	H
		5149.76	56.23	-17.77	74	45.16	32.2	6.28	27.41	325	40	P	V
		5150	46.78	-7.22	54	35.71	32.2	6.28	27.41	325	40	A	V
	*	5190	101.15	-	-	90.22	32.04	6.29	27.4	325	40	P	V
	*	5190	93.47	-	-	82.54	32.04	6.29	27.4	325	40	A	V
		5444.88	51.13	-22.87	74	40.16	31.9	6.4	27.33	325	40	P	V
		5350	42.5	-11.5	54	31.9	31.6	6.36	27.36	325	40	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5147.42	57.72	-16.28	74	46.66	32.19	6.28	27.41	100	198	P	H
		5150	47.68	-6.32	54	36.61	32.2	6.28	27.41	100	198	A	H
	*	5210	97.98	-	-	87.12	31.96	6.3	27.4	100	198	P	H
	*	5210	89.66	-	-	78.8	31.96	6.3	27.4	100	198	A	H
		5442.64	50.58	-23.42	74	39.61	31.9	6.4	27.33	100	198	P	H
		5460	41.21	-12.79	54	30.19	31.94	6.41	27.33	100	198	A	H
		5149.76	57.76	-16.24	74	46.69	32.2	6.28	27.41	307	42	P	V
		5150	48.34	-5.66	54	37.27	32.2	6.28	27.41	307	42	A	V
	*	5210	99.45	-	-	88.59	31.96	6.3	27.4	307	42	P	V
	*	5210	91.61	-	-	80.75	31.96	6.3	27.4	307	42	A	V
		5387.2	51.35	-22.65	74	40.5	31.82	6.38	27.35	307	42	P	V
		5369.84	41.71	-12.29	54	30.97	31.72	6.37	27.35	307	42	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz	*	5320	102.34	-	-	91.7	31.66	6.35	27.37	100	216	P	H
	*	5320	93.87	-	-	83.23	31.66	6.35	27.37	100	216	A	H
		5351.84	54	-20	74	43.38	31.61	6.37	27.36	100	216	P	H
		5350.08	41.99	-12.01	54	31.38	31.6	6.37	27.36	100	216	A	H
													H
													H
	*	5320	107.7	-	-	97.06	31.66	6.35	27.37	315	38	P	V
	*	5320	99.12	-	-	88.48	31.66	6.35	27.37	315	38	A	V
		5353.12	57.09	-16.91	74	46.46	31.62	6.37	27.36	315	38	P	V
		5350.08	44.9	-9.1	54	34.29	31.6	6.37	27.36	315	38	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 60 5300MHz		10600	46.78	-27.22	74	52.63	40.2	10.27	56.32	100	0	P	H
		15900	45.19	-28.81	74	49.83	38.7	12.07	55.41	100	0	P	H
													H
													H
													H
													H
		10600	47.18	-26.82	74	53.03	40.2	10.27	56.32	100	0	P	V
		15900	46.23	-27.77	74	50.87	38.7	12.07	55.41	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5320	101.32	-	-	90.68	31.66	6.35	27.37	100	217	P	H
	*	5320	93.58	-	-	82.94	31.66	6.35	27.37	100	217	A	H
		5350.56	53.67	-20.33	74	43.06	31.6	6.37	27.36	100	217	P	H
		5350.08	42.25	-11.75	54	31.64	31.6	6.37	27.36	100	217	A	H
802.11ac													H
VHT20													H
CH 64	*	5320	106.05	-	-	95.41	31.66	6.35	27.37	316	38	P	V
5320MHz	*	5320	98.2	-	-	87.56	31.66	6.35	27.37	316	38	A	V
		5352.64	59.82	-14.18	74	49.19	31.62	6.37	27.36	316	38	P	V
		5350.08	45.56	-8.44	54	34.95	31.6	6.37	27.36	316	38	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10600	47.39	-26.61	74	53.24	40.2	10.27	56.32	100	0	P	H
		15900	45.47	-28.53	74	50.11	38.7	12.07	55.41	100	0	P	H
													H
													H
802.11ac													H
VHT20													H
CH 60		10600	48.56	-25.44	74	54.41	40.2	10.27	56.32	100	0	P	V
5300MHz		15900	45.12	-28.88	74	49.76	38.7	12.07	55.41	100	0	P	V
													V
													V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 62 5310MHz		5112.88	52.37	-21.63	74	41.39	32.13	6.27	27.42	106	264	P	H
		5072.42	42.07	-11.93	54	31.14	32.1	6.26	27.43	106	264	A	H
	*	5310	99.32	-	-	88.67	31.68	6.34	27.37	106	264	P	H
	*	5310	91.62	-	-	80.97	31.68	6.34	27.37	106	264	A	H
		5356.08	59.95	-14.05	74	49.3	31.64	6.37	27.36	106	264	P	H
		5350.08	46.04	-7.96	54	35.43	31.6	6.37	27.36	106	264	A	H
		5119.34	52.66	-21.34	74	41.67	32.14	6.27	27.42	314	40	P	V
		5051	42.16	-11.84	54	31.25	32.1	6.25	27.44	314	40	A	V
	*	5310	102.2	-	-	91.55	31.68	6.34	27.37	314	40	P	V
	*	5310	94.61	-	-	83.96	31.68	6.34	27.37	314	40	A	V
		5358.48	62.33	-11.67	74	51.67	31.65	6.37	27.36	314	40	P	V
		5350.08	47.52	-6.48	54	36.91	31.6	6.37	27.36	314	40	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5118.32	53.43	-20.57	74	42.44	32.14	6.27	27.42	100	219	P	H
		5054.06	42.22	-11.78	54	31.31	32.1	6.25	27.44	100	219	A	H
	*	5290	96.69	-	-	86	31.72	6.34	27.37	100	219	P	H
	*	5290	88.37	-	-	77.68	31.72	6.34	27.37	100	219	A	H
		5369.76	59.43	-14.57	74	48.69	31.72	6.37	27.35	100	219	P	H
		5350.56	45.95	-8.05	54	35.34	31.6	6.37	27.36	100	219	A	H
		5080.58	52.75	-21.25	74	41.82	32.1	6.26	27.43	317	41	P	V
		5059.16	42.2	-11.8	54	31.28	32.1	6.25	27.43	317	41	A	V
	*	5290	100.27	-	-	89.58	31.72	6.34	27.37	317	41	P	V
	*	5290	92.35	-	-	81.66	31.72	6.34	27.37	317	41	A	V
		5369.76	64.1	-9.9	74	53.36	31.72	6.37	27.35	317	41	P	V
		5350.8	49.3	-4.7	54	38.69	31.6	6.37	27.36	317	41	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5452.56	50.89	-23.11	74	39.9	31.91	6.41	27.33	100	118	P	H
		5470	56.48	-11.72	68.2	45.42	31.98	6.41	27.33	100	118	P	H
		5460	42.16	-11.84	54	31.14	31.94	6.41	27.33	100	118	A	H
	*	5500	106.41	-	-	95.21	32.1	6.42	27.32	100	118	P	H
	*	5500	98.46	-	-	87.26	32.1	6.42	27.32	100	118	A	H
													H
		5457.36	51.57	-22.43	74	40.56	31.93	6.41	27.33	299	10	P	V
		5469.84	58.88	-9.32	68.2	47.82	31.98	6.41	27.33	299	10	P	V
		5460	42.62	-11.38	54	31.6	31.94	6.41	27.33	299	10	A	V
	*	5500	108.82	-	-	97.62	32.1	6.42	27.32	299	10	P	V
	*	5500	100.8	-	-	89.6	32.1	6.42	27.32	299	10	A	V
													V
802.11a CH 140 5700MHz	*	5700	103.4	-	-	92.24	32.2	6.42	27.46	282	184	P	H
	*	5700	94.97	-	-	83.81	32.2	6.42	27.46	282	184	A	H
		5728.12	53.26	-14.94	68.2	42.02	32.31	6.41	27.48	282	184	P	H
													H
													H
													H
	*	5700	107.19	-	-	96.03	32.2	6.42	27.46	291	14	P	V
	*	5700	99.07	-	-	87.91	32.2	6.42	27.46	291	14	A	V
		5725.08	58.01	-10.19	68.2	46.78	32.3	6.41	27.48	291	14	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 116 5580MHz		11160	46.67	-27.33	74	51.94	39.96	10.54	55.77	100	0	P	H
		16740	46.91	-21.29	68.2	49.83	40.26	12.35	55.53	100	0	P	H
													H
													H
													H
													H
		11160	47.45	-26.55	74	52.72	39.96	10.54	55.77	100	0	P	V
		16740	46.36	-21.84	68.2	49.28	40.26	12.35	55.53	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5456.72	51.36	-22.64	74	40.35	31.93	6.41	27.33	100	109	P	H
		5467.28	54.07	-14.13	68.2	43.02	31.97	6.41	27.33	100	109	P	H
		5459.92	42.26	-11.74	54	31.24	31.94	6.41	27.33	100	109	A	H
	*	5500	105.14	-	-	93.94	32.1	6.42	27.32	100	109	P	H
802.11ac	*	5500	97.51	-	-	86.31	32.1	6.42	27.32	100	109	A	H
VHT20													H
CH 100		5458.96	51.26	-22.74	74	40.24	31.94	6.41	27.33	299	10	P	V
5500MHz		5469.2	56.54	-11.66	68.2	45.48	31.98	6.41	27.33	299	10	P	V
		5460	42.61	-11.39	54	31.59	31.94	6.41	27.33	299	10	A	V
	*	5500	107.37	-	-	96.17	32.1	6.42	27.32	299	10	P	V
	*	5500	99.94	-	-	88.74	32.1	6.42	27.32	299	10	A	V
													V
	*	5700	102.43	-	-	91.27	32.2	6.42	27.46	268	194	P	H
	*	5700	94.6	-	-	83.44	32.2	6.42	27.46	268	194	A	H
		5727.96	54.66	-13.54	68.2	43.42	32.31	6.41	27.48	268	194	P	H
													H
802.11ac													H
VHT20													H
CH 140	*	5700	105.88	-	-	94.72	32.2	6.42	27.46	293	13	P	V
5700MHz	*	5700	98.02	-	-	86.86	32.2	6.42	27.46	293	13	A	V
		5726.84	54.7	-13.5	68.2	43.46	32.31	6.41	27.48	293	13	P	V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11160	47.62	-26.38	74	52.89	39.96	10.54	55.77	100	0	P	H
		16740	46.67	-21.53	68.2	49.59	40.26	12.35	55.53	100	0	P	H
													H
													H
802.11ac													H
VHT20													H
CH 116		11160	49.67	-24.33	74	54.94	39.96	10.54	55.77	100	0	P	V
5580MHz		16740	46.5	-21.7	68.2	49.42	40.26	12.35	55.53	100	0	P	V
													V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.68	54.75	-19.25	74	43.73	31.94	6.41	27.33	100	104	P	H
		5462.56	61.12	-7.08	68.2	50.09	31.95	6.41	27.33	100	104	P	H
		5459.92	44.96	-9.04	54	33.94	31.94	6.41	27.33	100	104	A	H
	*	5510	102.76	-	-	91.59	32.08	6.42	27.33	100	104	P	H
802.11ac	*	5510	94.53	-	-	83.36	32.08	6.42	27.33	100	104	A	H
VHT40		5741.375	51.88	-16.32	68.2	40.59	32.37	6.41	27.49	100	104	P	H
CH 102		5456.08	55.22	-18.78	74	44.22	31.92	6.41	27.33	293	12	P	V
5510MHz		5465.44	63.71	-4.49	68.2	52.67	31.96	6.41	27.33	293	12	P	V
		5459.92	45.53	-8.47	54	34.51	31.94	6.41	27.33	293	12	A	V
	*	5510	104.41	-	-	93.24	32.08	6.42	27.33	293	12	P	V
	*	5510	96.23	-	-	85.06	32.08	6.42	27.33	293	12	A	V
		5725.94	50.96	-17.24	68.2	39.73	32.3	6.41	27.48	293	12	P	V
		5455.7	49.78	-24.22	74	38.78	31.92	6.41	27.33	268	186	P	H
		5468.3	49.96	-18.24	68.2	38.91	31.97	6.41	27.33	268	186	P	H
		5459.9	40.91	-13.09	54	29.89	31.94	6.41	27.33	268	186	A	H
	*	5670	99.32	-	-	88.31	32.02	6.43	27.44	268	186	P	H
802.11ac	*	5670	91.52	-	-	80.51	32.02	6.43	27.44	268	186	A	H
VHT40		5758.07	51.22	-16.98	68.2	39.93	32.4	6.4	27.51	268	186	P	H
CH 134		5451.5	50.15	-23.85	74	39.16	31.91	6.41	27.33	282	14	P	V
5670MHz		5464.1	49.62	-18.58	68.2	38.58	31.96	6.41	27.33	282	14	P	V
		5459.9	41.23	-12.77	54	30.21	31.94	6.41	27.33	282	14	A	V
	*	5670	102.76	-	-	91.75	32.02	6.43	27.44	282	14	P	V
	*	5670	94.8	-	-	83.79	32.02	6.43	27.44	282	14	A	V
		5733.815	52.76	-15.44	68.2	41.5	32.34	6.41	27.49	282	14	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5456.32	55.26	-18.74	74	44.25	31.93	6.41	27.33	100	122	P	H
		5465.44	57.05	-11.15	68.2	46.01	31.96	6.41	27.33	100	122	P	H
		5458.24	43.43	-10.57	54	32.42	31.93	6.41	27.33	100	122	A	H
	*	5530	97.61	-	-	86.48	32.04	6.43	27.34	100	122	P	H
	*	5530	89.07	-	-	77.94	32.04	6.43	27.34	100	122	A	H
		5750.195	50.7	-17.5	68.2	39.4	32.4	6.4	27.5	100	122	P	H
		5459.68	59.54	-14.46	74	48.52	31.94	6.41	27.33	291	11	P	V
		5468.08	58.66	-9.54	68.2	47.61	31.97	6.41	27.33	291	11	P	V
		5458.24	44.63	-9.37	54	33.62	31.93	6.41	27.33	291	11	A	V
	*	5530	99.5	-	-	88.37	32.04	6.43	27.34	291	11	P	V
	*	5530	91.29	-	-	80.16	32.04	6.43	27.34	291	11	A	V
		5761.535	51.44	-16.76	68.2	40.15	32.4	6.4	27.51	291	11	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5150	61.04	-12.96	74	49.97	32.2	6.28	27.41	257	173	P	H
		5150	46.73	-7.27	54	35.66	32.2	6.28	27.41	257	173	A	H
	*	5180	112.08	-	-	101.12	32.08	6.28	27.4	257	173	P	H
	*	5180	103.29	-	-	92.33	32.08	6.28	27.4	257	173	A	H
													H
													H
		5147.94	58.74	-15.26	74	47.67	32.2	6.28	27.41	304	44	P	V
		5149.76	45.08	-8.92	54	34.01	32.2	6.28	27.41	304	44	A	V
	*	5180	110.64	-	-	99.68	32.08	6.28	27.4	304	44	P	V
	*	5180	102.1	-	-	91.14	32.08	6.28	27.4	304	44	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 40 5200MHz		10400	48.14	-20.06	68.2	54.33	40.1	9.55	56.46	100	0	P	H
		15600	45.44	-28.56	74	50.27	39.2	11.57	56.06	100	0	P	H
													H
													H
													H
													H
		10400	53.04	-15.16	68.2	59.23	40.1	9.55	56.46	100	0	P	V
		15600	50.65	-23.35	74	55.48	39.2	11.57	56.06	242	146	P	V
		15600	39.35	-14.65	54	44.18	39.2	11.57	56.06	242	146	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5146.12	60.96	-13.04	74	49.9	32.19	6.28	27.41	100	171	P	H
		5150	48.59	-5.41	54	37.52	32.2	6.28	27.41	100	171	A	H
	*	5180	111.46	-	-	100.5	32.08	6.28	27.4	100	171	P	H
	*	5180	102.5	-	-	91.54	32.08	6.28	27.4	100	171	A	H
802.11ac													H
VHT20													H
CH 36		5143.78	58.07	-15.93	74	47.01	32.19	6.28	27.41	290	46	P	V
5180MHz		5149.76	47.6	-6.4	54	36.53	32.2	6.28	27.41	290	46	A	V
	*	5180	110.83	-	-	99.87	32.08	6.28	27.4	290	46	P	V
	*	5180	101.99	-	-	91.03	32.08	6.28	27.4	290	46	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10400	47.3	-20.9	68.2	53.49	40.1	9.55	56.46	100	0	P	H
		15600	45.99	-28.01	74	50.82	39.2	11.57	56.06	100	0	P	H
													H
													H
802.11ac													H
VHT20													H
CH 40		10400	50.91	-17.29	68.2	57.1	40.1	9.55	56.46	100	0	P	V
5200MHz		15600	46.88	-27.12	74	51.71	39.2	11.57	56.06	100	0	P	V
													V
													V
													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5149.5	64.5	-9.5	74	53.43	32.2	6.28	27.41	100	172	P	H
		5150	53.12	-0.88	54	42.05	32.2	6.28	27.41	100	172	A	H
	*	5190	108.27	-	-	97.34	32.04	6.29	27.4	100	172	P	H
	*	5190	99.36	-	-	88.43	32.04	6.29	27.4	100	172	A	H
802.11ac		5432.56	51.69	-22.31	74	40.73	31.9	6.4	27.34	100	172	P	H
VHT40		5437.32	41.58	-12.42	54	30.62	31.9	6.4	27.34	100	172	A	H
CH 38		5145.6	61.48	-12.52	74	50.42	32.19	6.28	27.41	302	46	P	V
5190MHz		5150	50.53	-3.47	54	39.46	32.2	6.28	27.41	302	46	A	V
	*	5190	107.5	-	-	96.57	32.04	6.29	27.4	302	46	P	V
	*	5190	98	-	-	87.07	32.04	6.29	27.4	302	46	A	V
		5355.56	51.56	-22.44	74	40.92	31.63	6.37	27.36	302	46	P	V
		5356.4	42	-12	54	31.35	31.64	6.37	27.36	302	46	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5147.68	68.06	-5.94	74	56.99	32.2	6.28	27.41	107	172	P	H
		5149.76	52.97	-1.03	54	41.9	32.2	6.28	27.41	107	172	A	H
	*	5210	104.88	-	-	94.02	31.96	6.3	27.4	107	172	P	H
	*	5210	95.7	-	-	84.84	31.96	6.3	27.4	107	172	A	H
		5368.16	51.25	-22.75	74	40.52	31.71	6.37	27.35	107	172	P	H
		5454.4	41.74	-12.26	54	30.74	31.92	6.41	27.33	107	172	A	H
		5147.68	65.37	-8.63	74	54.3	32.2	6.28	27.41	284	46	P	V
		5150	50.49	-3.51	54	39.42	32.2	6.28	27.41	284	46	A	V
	*	5210	104.96	-	-	94.1	31.96	6.3	27.4	284	46	P	V
	*	5210	95.24	-	-	84.38	31.96	6.3	27.4	284	46	A	V
		5368.16	52.21	-21.79	74	41.48	31.71	6.37	27.35	284	46	P	V
		5459.16	41.92	-12.08	54	30.9	31.94	6.41	27.33	284	46	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz	*	5320	109.75	-	-	99.11	31.66	6.35	27.37	276	174	P	H
	*	5320	101.48	-	-	90.84	31.66	6.35	27.37	276	174	A	H
		5350.56	59.19	-14.81	74	48.58	31.6	6.37	27.36	276	174	P	H
		5350.08	43.41	-10.59	54	32.8	31.6	6.37	27.36	276	174	A	H
													H
													H
	*	5320	109.46	-	-	98.82	31.66	6.35	27.37	313	39	P	V
	*	5320	100.91	-	-	90.27	31.66	6.35	27.37	313	39	A	V
		5351.68	61.25	-12.75	74	50.63	31.61	6.37	27.36	313	39	P	V
		5350.08	44.71	-9.29	54	34.1	31.6	6.37	27.36	313	39	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 60 5300MHz		10600	46.85	-27.15	74	52.7	40.2	10.27	56.32	100	0	P	H
		15900	46.74	-27.26	74	51.38	38.7	12.07	55.41	100	0	P	H
													H
													H
													H
													H
		10600	49.98	-24.02	74	55.83	40.2	10.27	56.32	100	0	P	V
		15900	49.02	-24.98	74	53.66	38.7	12.07	55.41	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5320	109.04	-	-	98.4	31.66	6.35	27.37	100	172	P	H
	*	5320	100.59	-	-	89.95	31.66	6.35	27.37	100	172	A	H
		5352.32	54.37	-19.63	74	43.75	31.61	6.37	27.36	100	172	P	H
		5350.24	45.47	-8.53	54	34.86	31.6	6.37	27.36	100	172	A	H
802.11ac													H
VHT20													H
CH 64	*	5320	108.82	-	-	98.18	31.66	6.35	27.37	297	44	P	V
5320MHz	*	5320	100.52	-	-	89.88	31.66	6.35	27.37	297	44	A	V
		5350.24	59.78	-14.22	74	49.17	31.6	6.37	27.36	297	44	P	V
		5350.08	46.41	-7.59	54	35.8	31.6	6.37	27.36	297	44	A	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10600	48.21	-25.79	74	54.06	40.2	10.27	56.32	100	0	P	H
		15900	45.75	-28.25	74	50.39	38.7	12.07	55.41	100	0	P	H
													H
													H
802.11ac													H
VHT20													H
CH 60		10600	48.9	-25.1	74	54.75	40.2	10.27	56.32	100	0	P	V
5300MHz		15900	49.08	-24.92	74	53.72	38.7	12.07	55.41	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 62 5310MHz		5141.78	52.09	-21.91	74	41.04	32.18	6.28	27.41	106	170	P	H
		5053.38	42.4	-11.6	54	31.49	32.1	6.25	27.44	106	170	A	H
	*	5310	105.97	-	-	95.32	31.68	6.34	27.37	106	170	P	H
	*	5310	97.48	-	-	86.83	31.68	6.34	27.37	106	170	A	H
		5352.72	64.91	-9.09	74	54.28	31.62	6.37	27.36	106	170	P	H
		5350.56	48.67	-5.33	54	38.06	31.6	6.37	27.36	106	170	A	H
		5077.52	52.74	-21.26	74	41.81	32.1	6.26	27.43	292	45	P	V
		5060.86	42.42	-11.58	54	31.49	32.1	6.26	27.43	292	45	A	V
	*	5310	106.21	-	-	95.56	31.68	6.34	27.37	292	45	P	V
	*	5310	97.08	-	-	86.43	31.68	6.34	27.37	292	45	A	V
		5351.28	64.92	-9.08	74	54.3	31.61	6.37	27.36	292	45	P	V
		5350.08	49.59	-4.41	54	38.98	31.6	6.37	27.36	292	45	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5055.08	52.91	-21.09	74	42	32.1	6.25	27.44	299	196	P	H
		5130.22	42.41	-11.59	54	31.4	32.16	6.27	27.42	299	196	A	H
	*	5290	104.69	-	-	94	31.72	6.34	27.37	299	196	P	H
	*	5290	95.36	-	-	84.67	31.72	6.34	27.37	299	196	A	H
802.11ac		5364.48	63.27	-10.73	74	52.57	31.69	6.37	27.36	299	196	P	H
VHT80		5350.8	48.03	-5.97	54	37.42	31.6	6.37	27.36	299	196	A	H
CH 58		5052.36	52.88	-21.12	74	41.97	32.1	6.25	27.44	286	45	P	V
5290MHz		5062.22	42.29	-11.71	54	31.36	32.1	6.26	27.43	286	45	A	V
	*	5290	103.42	-	-	92.73	31.72	6.34	27.37	286	45	P	V
	*	5290	93.88	-	-	83.19	31.72	6.34	27.37	286	45	A	V
		5357.52	64.02	-9.98	74	53.36	31.65	6.37	27.36	286	45	P	V
		5350.56	48.31	-5.69	54	37.7	31.6	6.37	27.36	286	45	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5431.44	52.13	-21.87	74	41.17	31.9	6.4	27.34	257	200	P	H
		5466.64	58.68	-9.52	68.2	47.63	31.97	6.41	27.33	257	200	P	H
		5460	42.17	-11.83	54	31.15	31.94	6.41	27.33	257	200	A	H
	*	5500	110.13	-	-	98.93	32.1	6.42	27.32	257	200	P	H
	*	5500	101.99	-	-	90.79	32.1	6.42	27.32	257	200	A	H
													H
		5460.08	53.61	-14.59	68.2	42.59	31.94	6.41	27.33	312	12	P	V
		5469.52	61.11	-7.09	68.2	50.05	31.98	6.41	27.33	312	12	P	V
		5460	42.74	-11.26	54	31.72	31.94	6.41	27.33	312	12	A	V
	*	5500	111.11	-	-	99.91	32.1	6.42	27.32	312	12	P	V
	*	5500	102.61	-	-	91.41	32.1	6.42	27.32	312	12	A	V
													V
802.11a CH 140 5700MHz	*	5700	112.47	-	-	101.31	32.2	6.42	27.46	274	161	P	H
	*	5700	103.82	-	-	92.66	32.2	6.42	27.46	274	161	A	H
		5725	62.81	-5.39	68.2	51.58	32.3	6.41	27.48	274	161	P	H
													H
													H
													H
	*	5700	111.38	-	-	100.22	32.2	6.42	27.46	290	12	P	V
	*	5700	103.19	-	-	92.03	32.2	6.42	27.46	290	12	A	V
		5726.28	62.85	-5.35	68.2	51.61	32.31	6.41	27.48	290	12	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 116 5580MHz		11160	48.87	-25.13	74	54.14	39.96	10.54	55.77	100	0	P	H
		16740	47.41	-20.79	68.2	50.33	40.26	12.35	55.53	100	0	P	H
													H
													H
													H
													H
		11160	56.66	-17.34	74	61.93	39.96	10.54	55.77	100	232	P	V
		11160	45.63	-8.37	54	50.9	39.96	10.54	55.77	100	232	A	V
		16740	49.02	-19.18	68.2	51.94	40.26	12.35	55.53	100	0	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5458.96	51.48	-22.52	74	40.46	31.94	6.41	27.33	100	121	P	H
		5470	60.45	-7.75	68.2	49.39	31.98	6.41	27.33	100	121	P	H
		5459.76	42.46	-11.54	54	31.44	31.94	6.41	27.33	100	121	A	H
	*	5500	110.25	-	-	99.05	32.1	6.42	27.32	100	121	P	H
802.11ac	*	5500	102	-	-	90.8	32.1	6.42	27.32	100	121	A	H
VHT20													H
CH 100		5458.8	52.65	-21.35	74	41.63	31.94	6.41	27.33	318	41	P	V
5500MHz		5469.84	61.16	-7.04	68.2	50.1	31.98	6.41	27.33	318	41	P	V
		5460	42.73	-11.27	54	31.71	31.94	6.41	27.33	318	41	A	V
	*	5500	108.85	-	-	97.65	32.1	6.42	27.32	318	41	P	V
	*	5500	99.91	-	-	88.71	32.1	6.42	27.32	318	41	A	V
													V
	*	5700	112.28	-	-	101.12	32.2	6.42	27.46	280	163	P	H
	*	5700	103.8	-	-	92.64	32.2	6.42	27.46	280	163	A	H
		5725.08	63.18	-5.02	68.2	51.95	32.3	6.41	27.48	280	163	P	H
													H
802.11ac													H
VHT20													H
CH 140	*	5700	111.14	-	-	99.98	32.2	6.42	27.46	263	17	P	V
5700MHz	*	5700	102.87	-	-	91.71	32.2	6.42	27.46	263	17	A	V
		5725.16	59.9	-8.3	68.2	48.67	32.3	6.41	27.48	263	17	P	V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11160	49.22	-24.78	74	54.49	39.96	10.54	55.77	100	0	P	H
		16740	46.88	-21.32	68.2	49.8	40.26	12.35	55.53	100	0	P	H
													H
													H
802.11ac													H
VHT20													H
CH 116		11160	55.64	-18.36	74	60.91	39.96	10.54	55.77	100	233	P	V
5580MHz		11160	45.29	-8.71	54	50.56	39.96	10.54	55.77	100	233	A	V
		16740	47.6	-20.6	68.2	50.52	40.26	12.35	55.53	100	0	P	V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5456.8	55.63	-18.37	74	44.62	31.93	6.41	27.33	100	118	P	H
		5465.92	63.37	-4.83	68.2	52.33	31.96	6.41	27.33	100	118	P	H
		5459.92	45.59	-8.41	54	34.57	31.94	6.41	27.33	100	118	A	H
	*	5510	107.71	-	-	96.54	32.08	6.42	27.33	100	118	P	H
802.11ac	*	5510	98.49	-	-	87.32	32.08	6.42	27.33	100	118	A	H
VHT40		5739.485	51.92	-16.28	68.2	40.64	32.36	6.41	27.49	100	118	P	H
CH 102		5459.2	56.55	-17.45	74	45.53	31.94	6.41	27.33	255	17	P	V
5510MHz		5467.36	64.25	-3.95	68.2	53.2	31.97	6.41	27.33	255	17	P	V
		5459.92	46.85	-7.15	54	35.83	31.94	6.41	27.33	255	17	A	V
	*	5510	107.01	-	-	95.84	32.08	6.42	27.33	255	17	P	V
	*	5510	97.88	-	-	86.71	32.08	6.42	27.33	255	17	A	V
		5741.06	52.13	-16.07	68.2	40.85	32.36	6.41	27.49	255	17	P	V
		5357	50.79	-23.21	74	40.14	31.64	6.37	27.36	286	164	P	H
		5467.95	49.95	-18.25	68.2	38.9	31.97	6.41	27.33	286	164	P	H
		5459.55	41.51	-12.49	54	30.49	31.94	6.41	27.33	286	164	A	H
	*	5670	108.57	-	-	97.56	32.02	6.43	27.44	286	164	P	H
802.11ac	*	5670	99.62	-	-	88.61	32.02	6.43	27.44	286	164	A	H
VHT40		5726.885	55.95	-12.25	68.2	44.71	32.31	6.41	27.48	286	164	P	H
CH 134		5368.9	51.29	-22.71	74	40.56	31.71	6.37	27.35	267	16	P	V
5670MHz		5468.65	49.62	-18.58	68.2	38.57	31.97	6.41	27.33	267	16	P	V
		5439.95	41.87	-12.13	54	30.91	31.9	6.4	27.34	267	16	A	V
	*	5670	108.16	-	-	97.15	32.02	6.43	27.44	267	16	P	V
	*	5670	98.99	-	-	87.98	32.02	6.43	27.44	267	16	A	V
		5728.145	54.35	-13.85	68.2	43.11	32.31	6.41	27.48	267	16	P	V

Remark

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

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5458.48	60.42	-13.58	74	49.41	31.93	6.41	27.33	100	122	P	H
		5468.8	65.42	-2.78	68.2	54.36	31.98	6.41	27.33	100	122	P	H
		5458.72	48.79	-5.21	54	37.78	31.93	6.41	27.33	100	122	A	H
	*	5530	103.67	-	-	92.54	32.04	6.43	27.34	100	122	P	H
	*	5530	93.92	-	-	82.79	32.04	6.43	27.34	100	122	A	H
		5753.03	52.88	-15.32	68.2	41.58	32.4	6.4	27.5	100	122	P	H
		5458.48	63.98	-10.02	74	52.97	31.93	6.41	27.33	305	12	P	V
		5469.52	65.78	-2.42	68.2	54.72	31.98	6.41	27.33	305	12	P	V
		5459.92	50.8	-3.2	54	39.78	31.94	6.41	27.33	305	12	A	V
	*	5530	103.76	-	-	92.63	32.04	6.43	27.34	305	12	P	V
	*	5530	94.28	-	-	83.15	32.04	6.43	27.34	305	12	A	V
		5725.31	52.58	-15.62	68.2	41.35	32.3	6.41	27.48	305	12	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT40 (LF @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		30	23.81	-16.19	40	28.84	24.57	2.62	32.22	-	-	P	H
		83.35	26.1	-13.9	40	43.38	13.76	1.21	32.25	-	-	P	H
		131.85	26.44	-17.06	43.5	39.71	17.54	1.43	32.24	-	-	P	H
		303.54	31.88	-14.12	46	42.46	19.29	1.98	31.85	-	-	P	H
		547.98	33.22	-12.78	46	38.53	24.49	2.45	32.25	100	0	P	H
		895.24	32.95	-13.05	46	32.38	28.64	2.99	31.06	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT40		30	24.68	-15.32	40	29.71	24.57	2.62	32.22	-	-	P	V
LF		71.71	31.29	-8.71	40	50.02	12.3	1.23	32.26	-	-	P	V
		84.32	31.94	-8.06	40	49.12	13.85	1.22	32.25	100	0	P	V
		120.21	23.82	-19.68	43.5	37.17	17.5	1.39	32.24	-	-	P	V
		552.83	27.19	-18.81	46	31.9	25.11	2.46	32.28	-	-	P	V
		958.29	32.67	-13.33	46	29.8	30.73	2.89	30.75	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Yuan Lee, Jacky Hong, and Wilson Wu	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

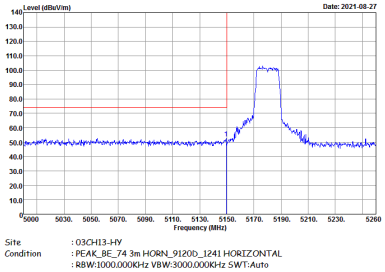
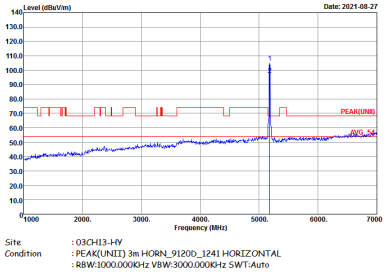
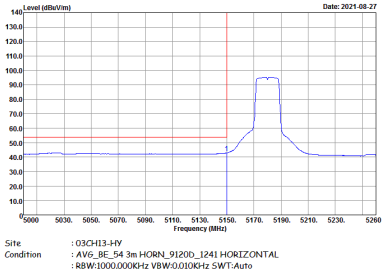
Remark: For Radiated Spurious Emission Plots Test Items, Ant. 1 means Chain 0 and Ant. 2 means Chain 1.

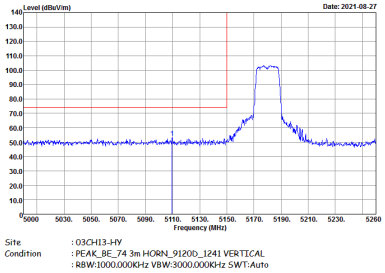
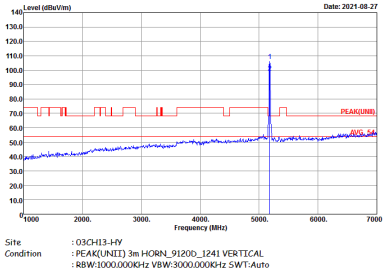
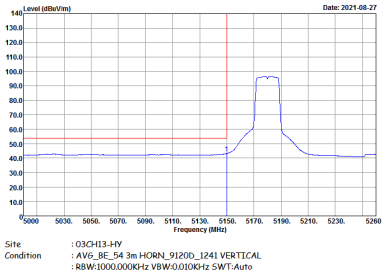
Note symbol

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

Band 1 - 5150~5250MHz

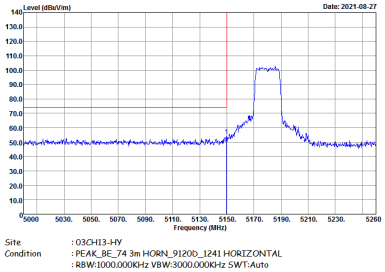
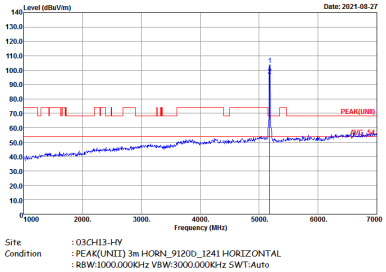
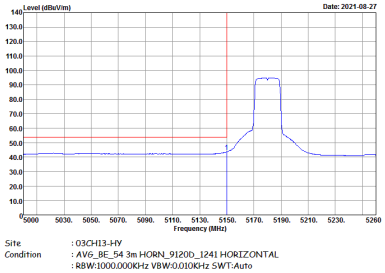
WIFI 802.11a (Band Edge @ 3m)

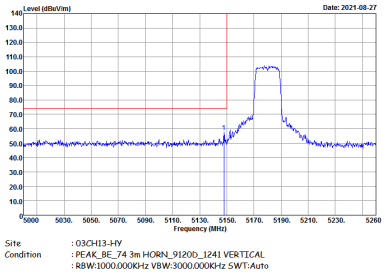
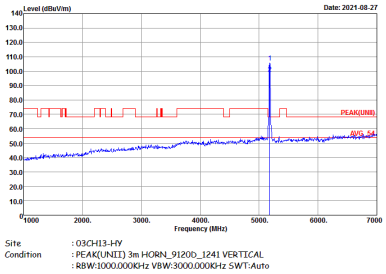
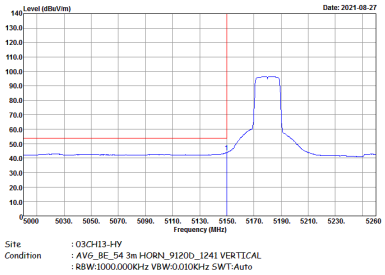
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

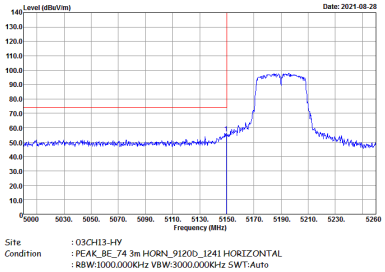
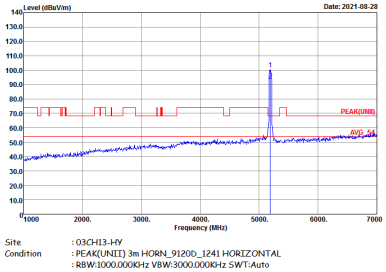
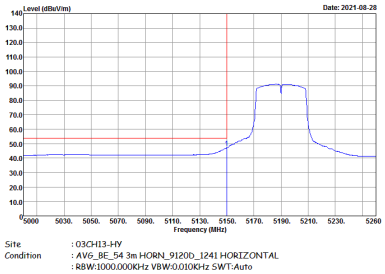
Band 1 5150~5250MHz

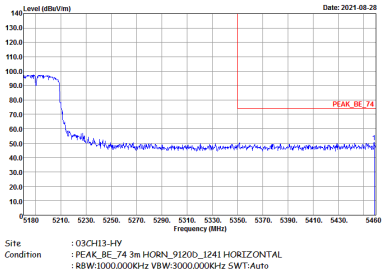
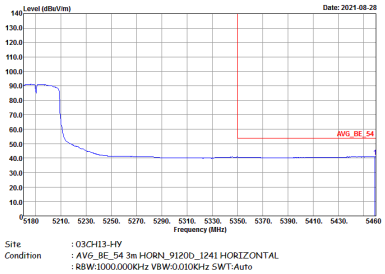
WIFI 802.11ac VHT20 (Band Edge @ 3m)

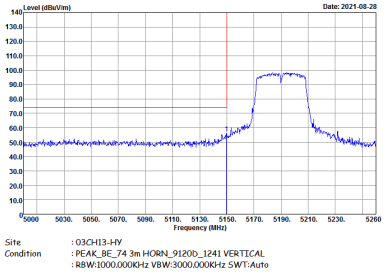
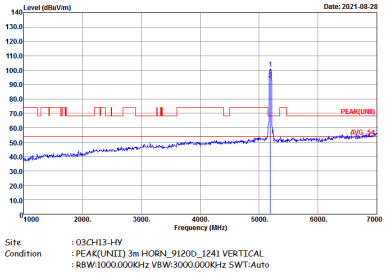
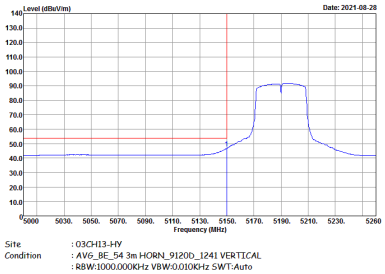
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

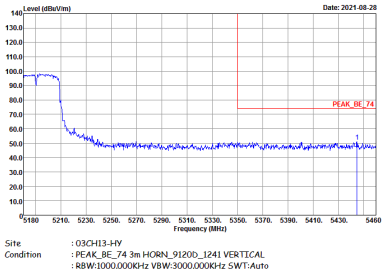
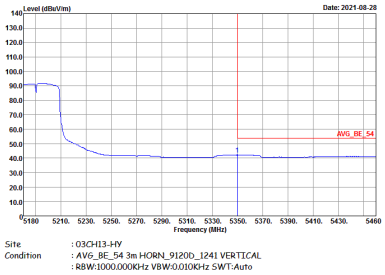
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

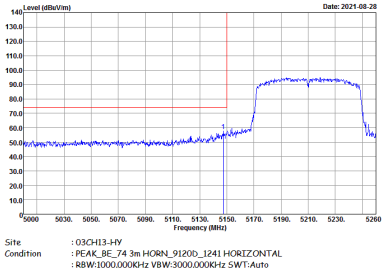
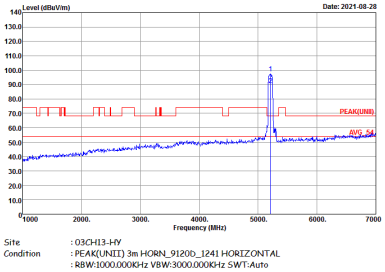
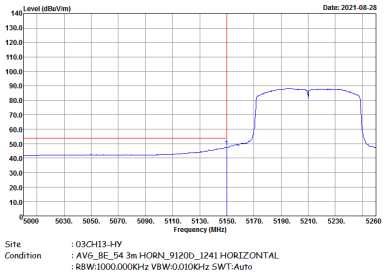
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

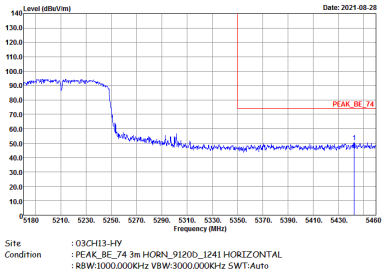
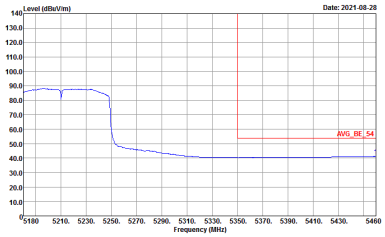
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

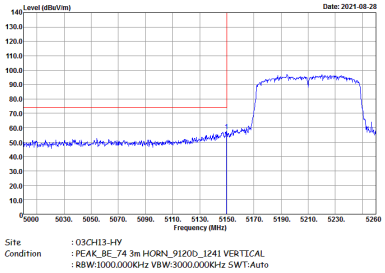
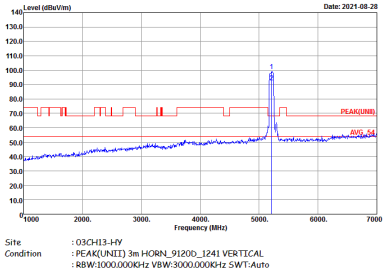
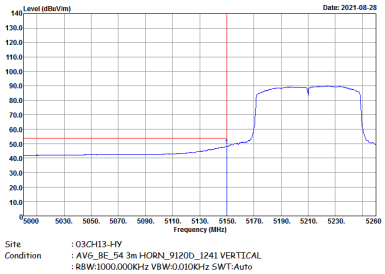
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

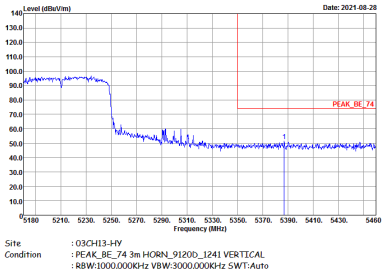
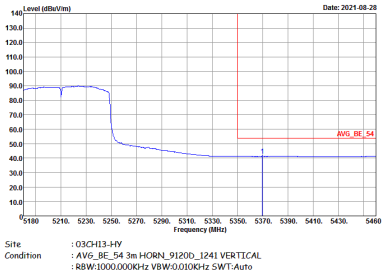
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

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

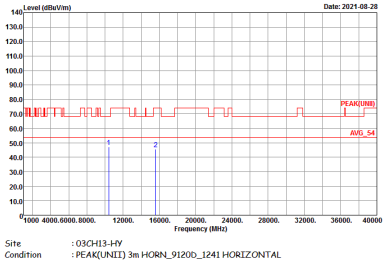
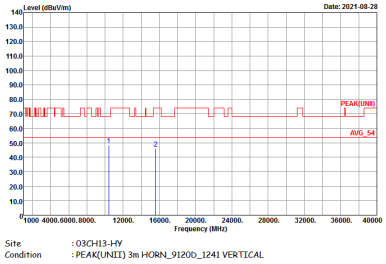
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

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

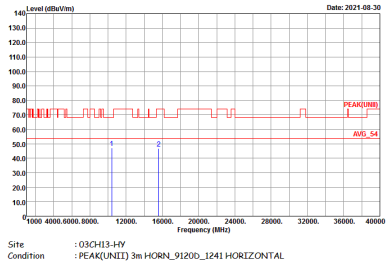
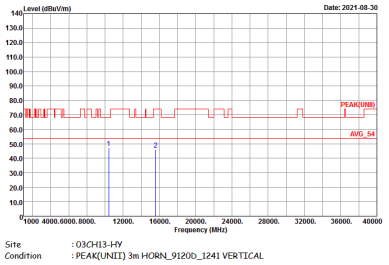
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

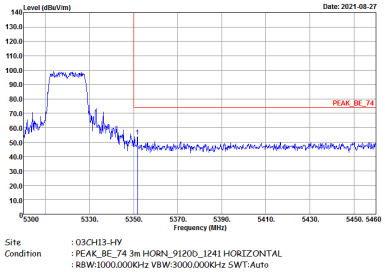
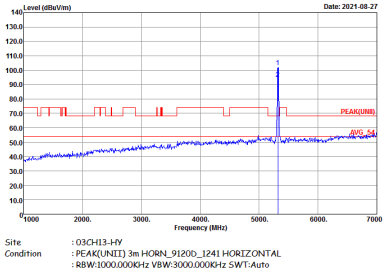
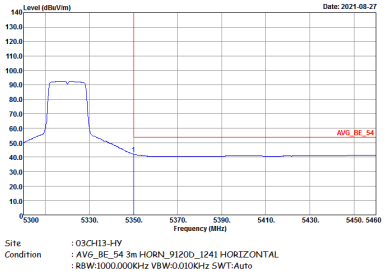
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH40 5200MHz	
2	Horizontal	Vertical
Peak Avg.		

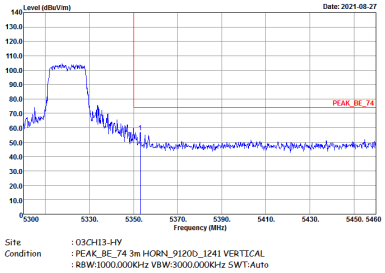
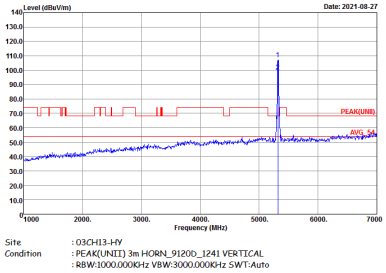
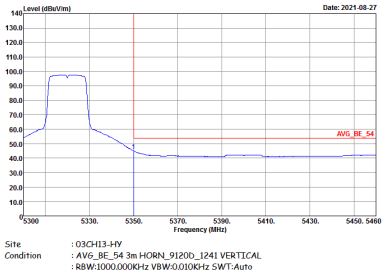
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz	
2	Horizontal	Vertical
Peak Avg.		

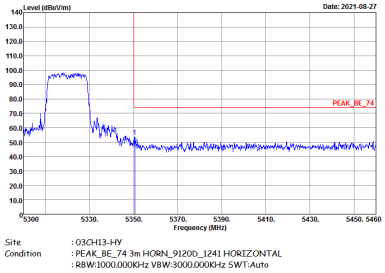
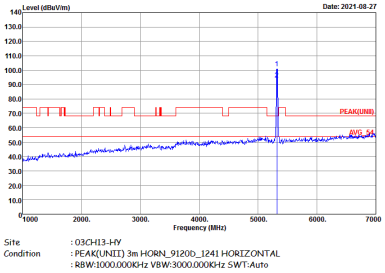
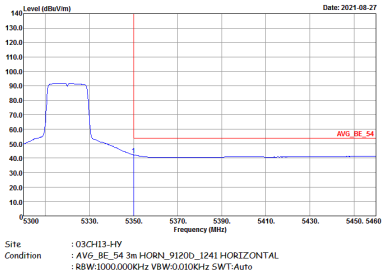
Band 2 - 5250~5350MHz

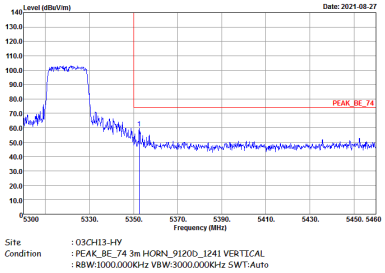
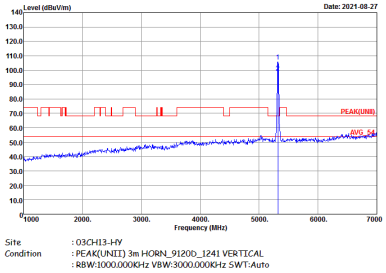
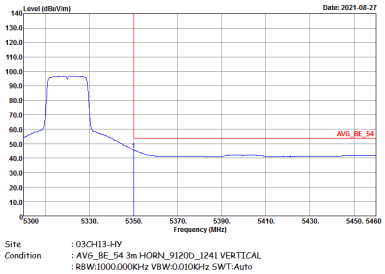
WIFI 802.11a (Band Edge @ 3m)

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

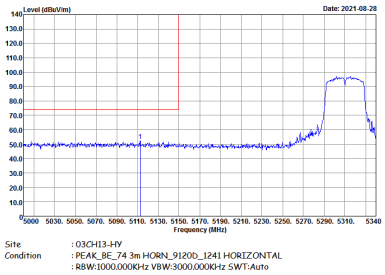
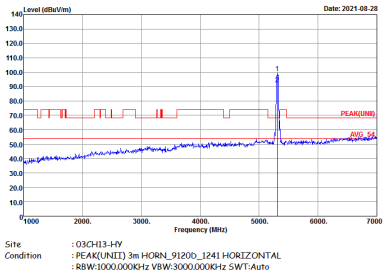
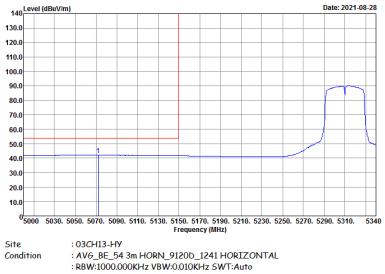
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

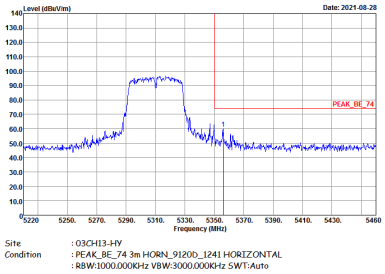
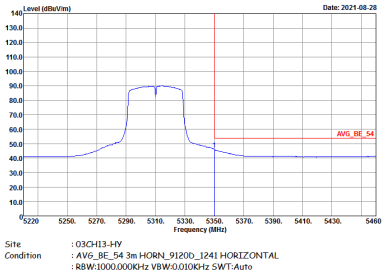
Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

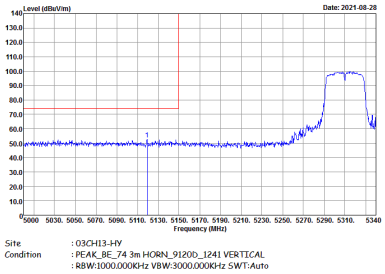
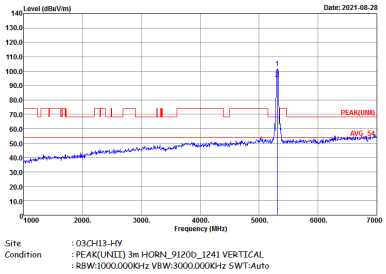
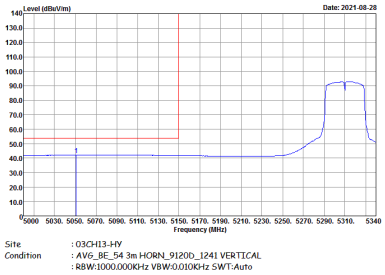
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

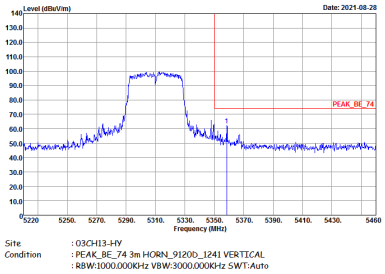
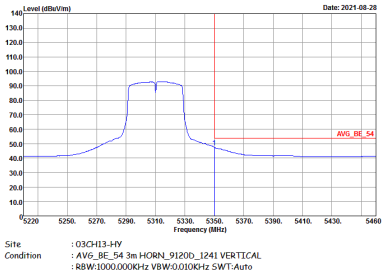
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

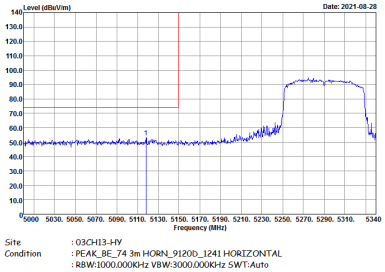
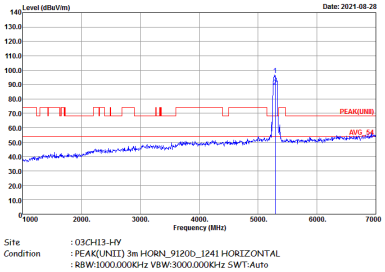
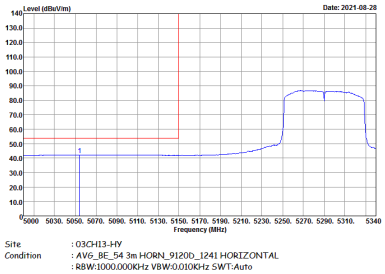
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

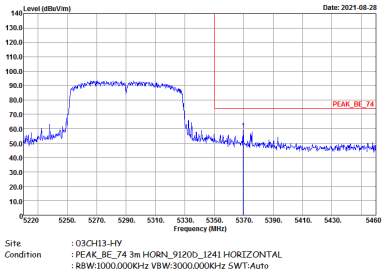
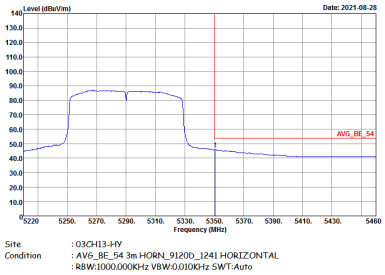
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

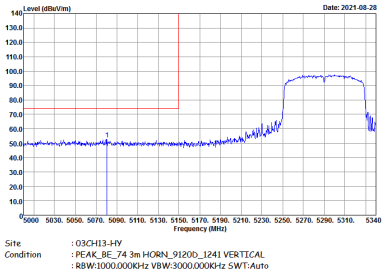
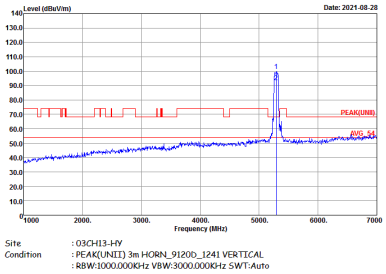
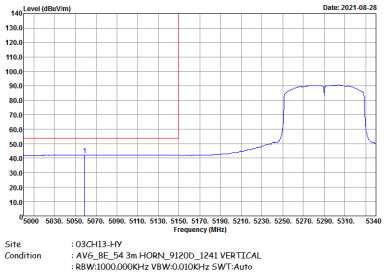
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

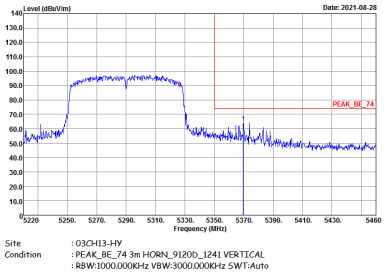
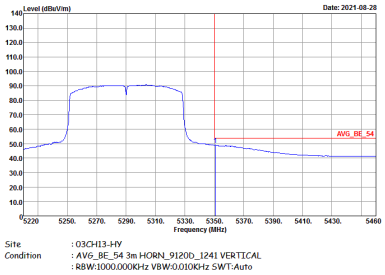
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

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

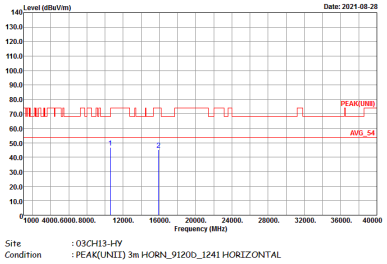
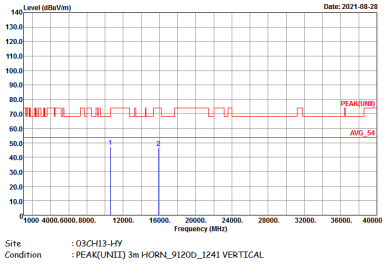
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

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

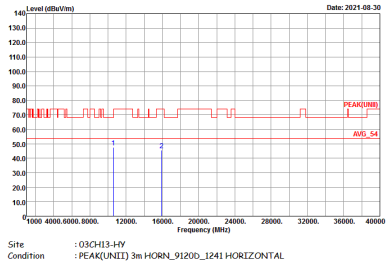
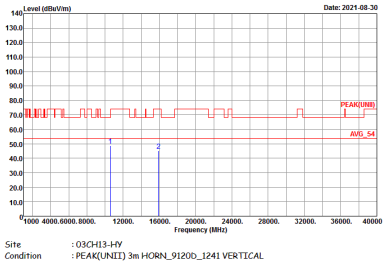
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

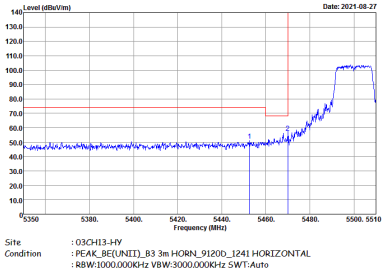
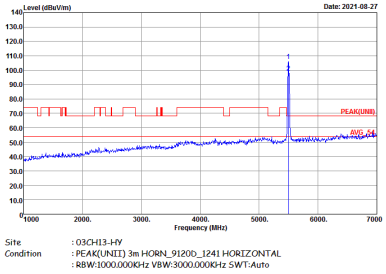
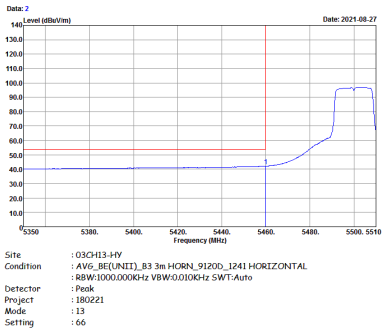
WIFI 802.11a (Harmonic @ 3m)

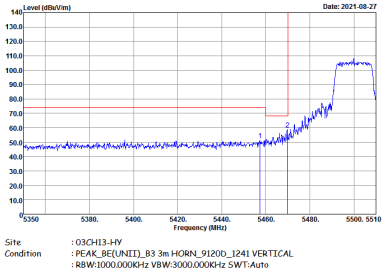
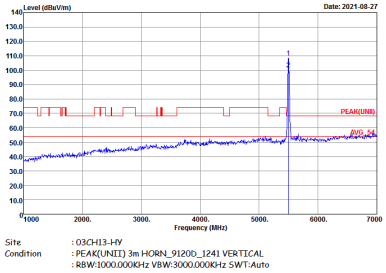
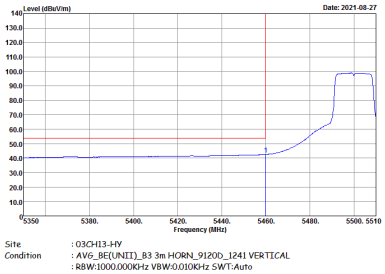
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
2	Horizontal	Vertical
Peak Avg.		

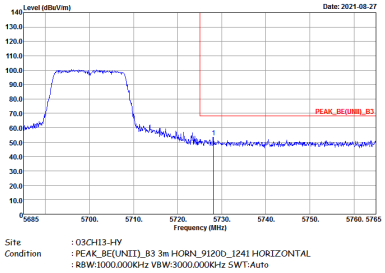
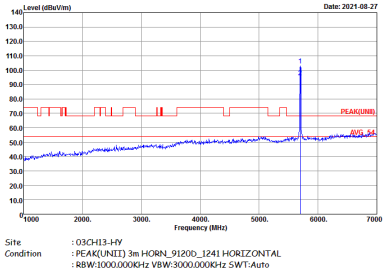
Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

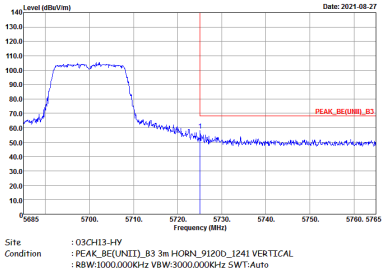
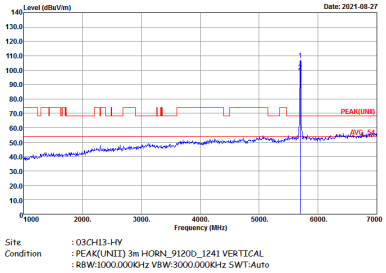
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz	
2	Horizontal	Vertical
Peak Avg.		

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

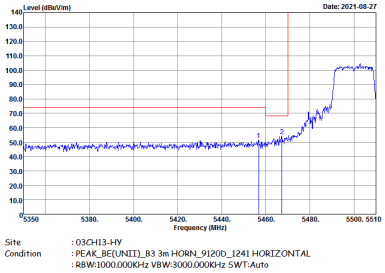
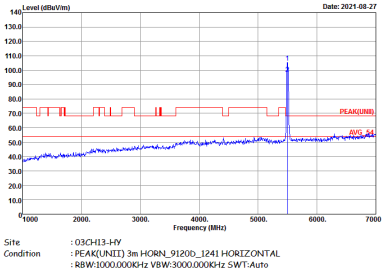
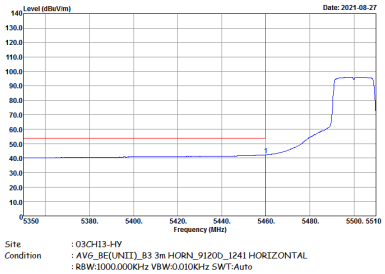
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

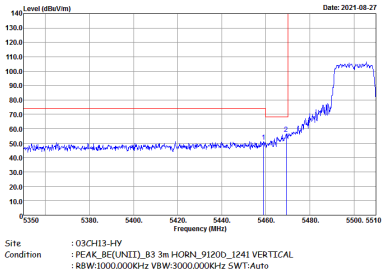
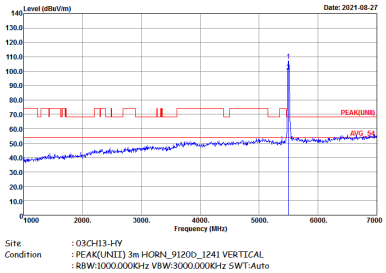
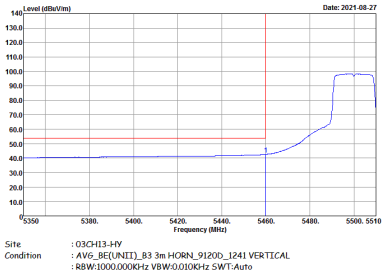
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

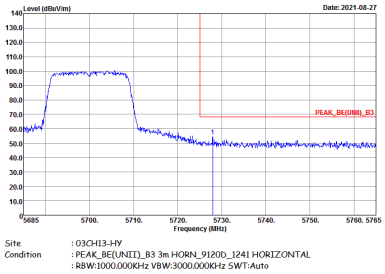
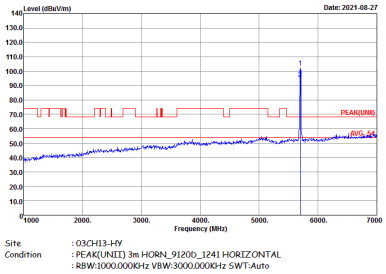
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Fundamental
Peak		

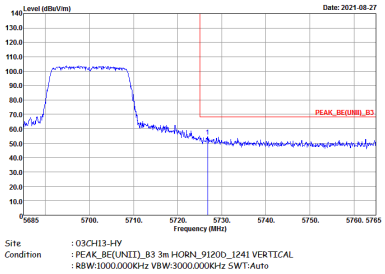
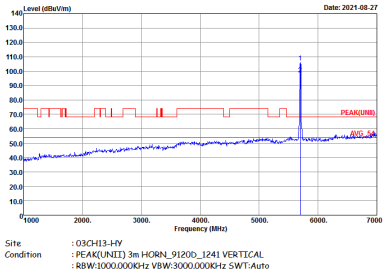
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Vertical	Fundamental
Peak		

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

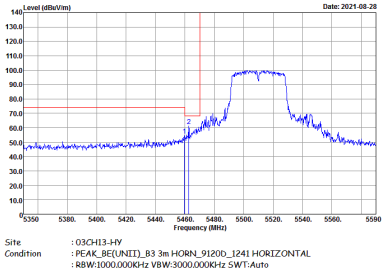
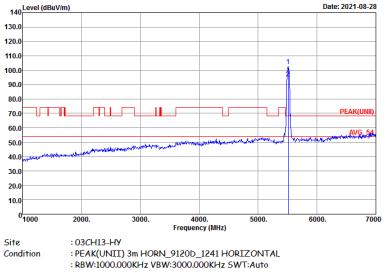
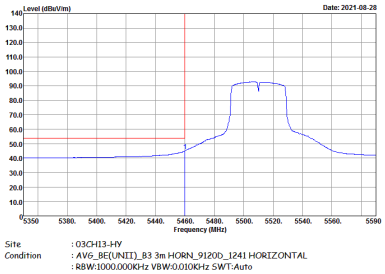
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

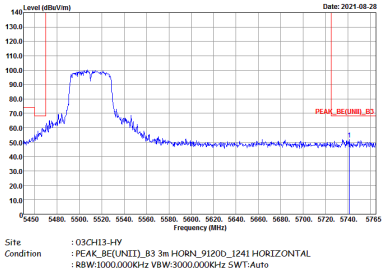
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

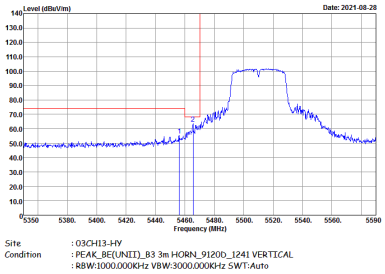
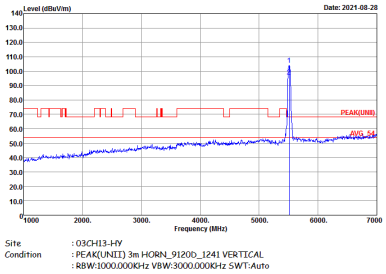
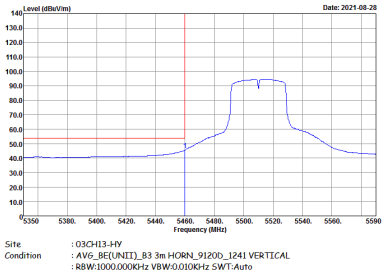
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
2	Horizontal	Fundamental
Peak		

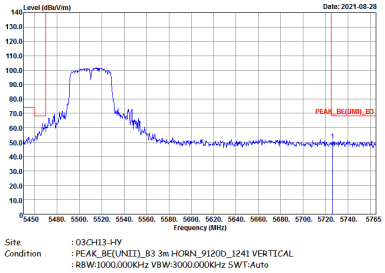
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
2	Vertical	Fundamental
Peak		

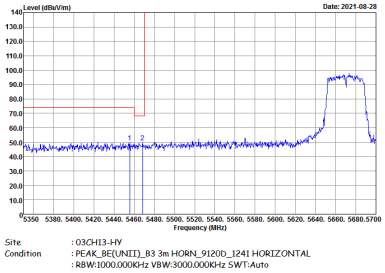
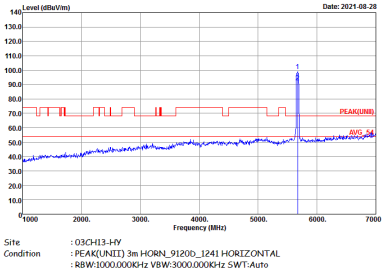
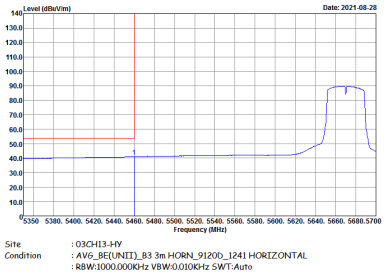
Band 3 5470~5725MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

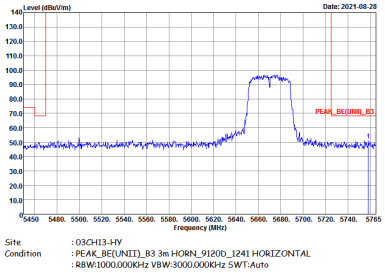
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

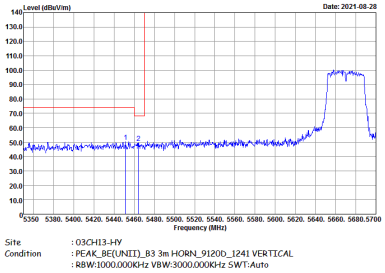
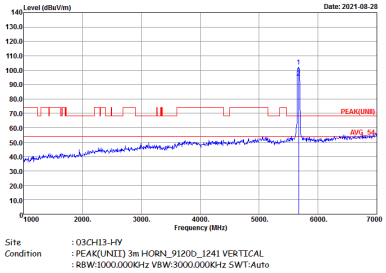
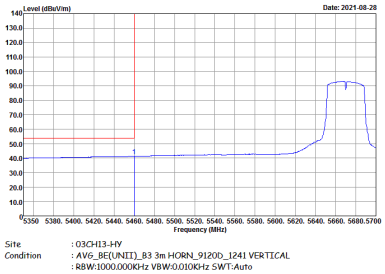
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

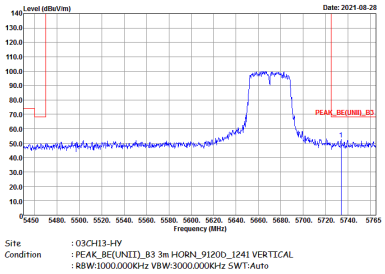
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

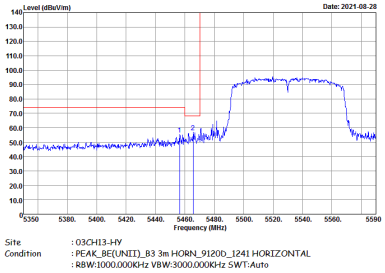
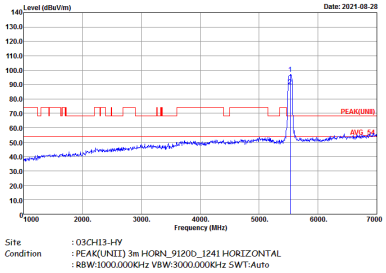
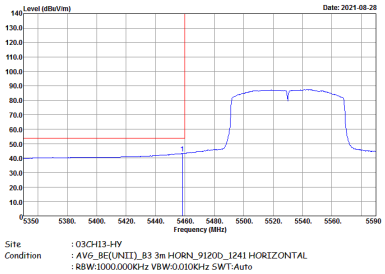
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

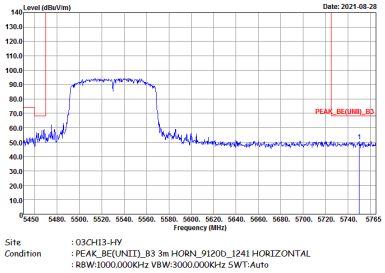
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

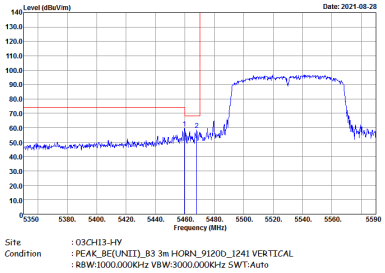
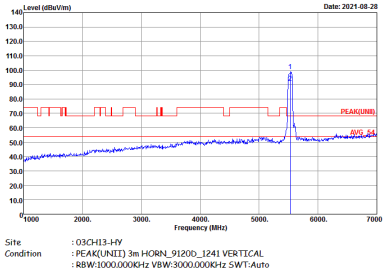
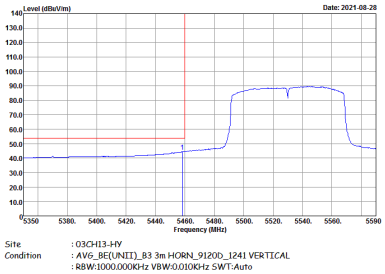
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

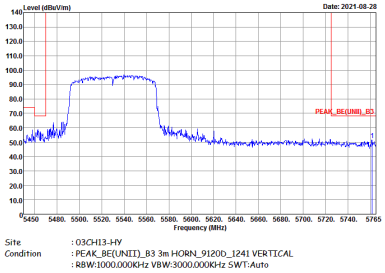
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
2	Vertical	Fundamental
Peak		Left blank

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

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

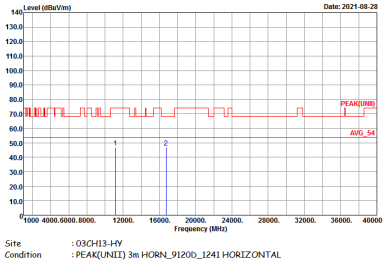
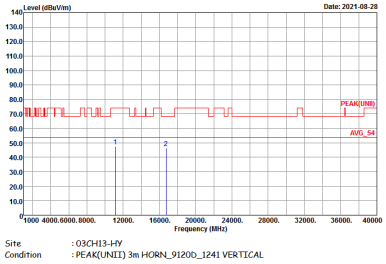
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

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

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

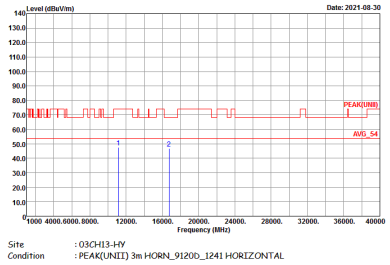
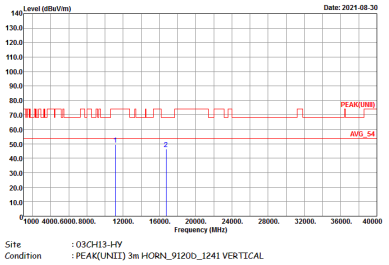
Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

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

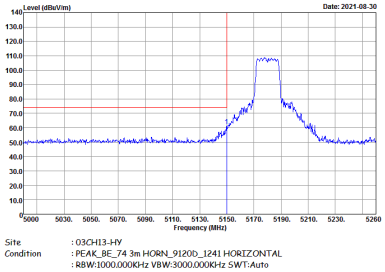
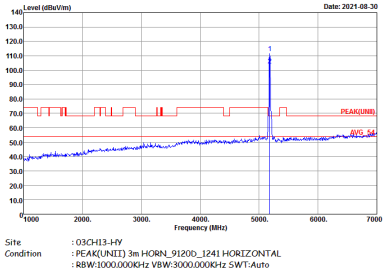
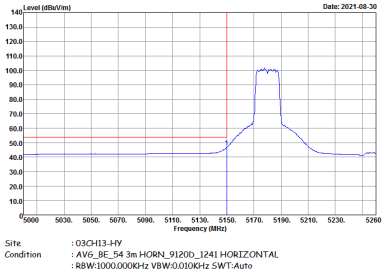
Band 3 5470~5725MHz

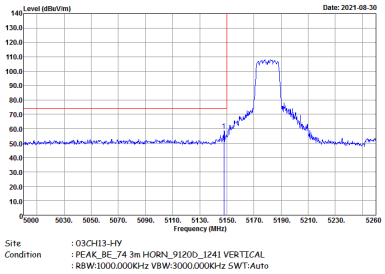
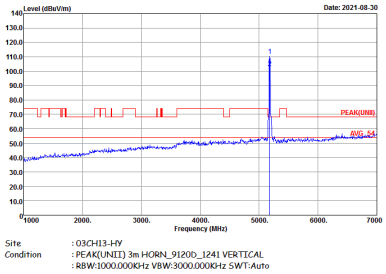
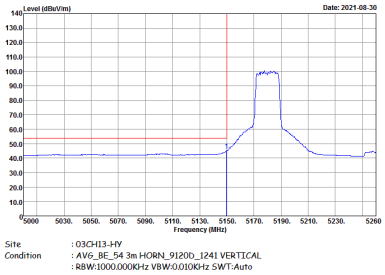
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.		

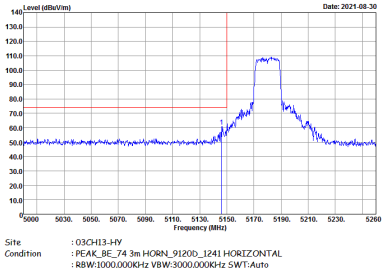
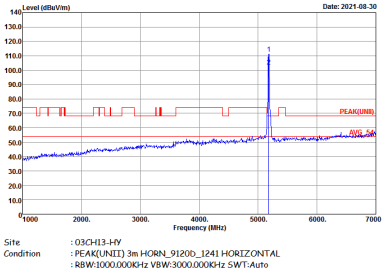
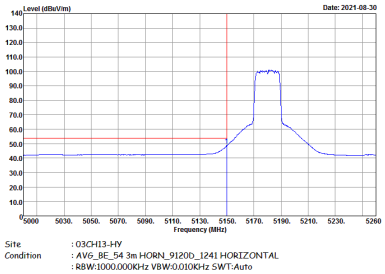
Band 1 - 5150~5250MHz

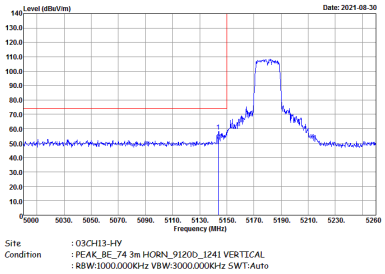
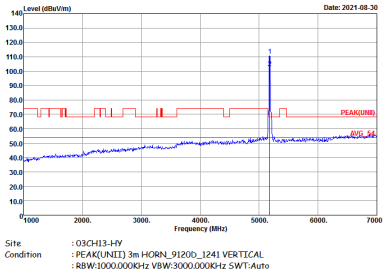
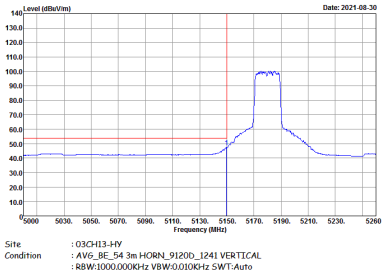
WIFI 802.11a (Band Edge @ 3m)

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

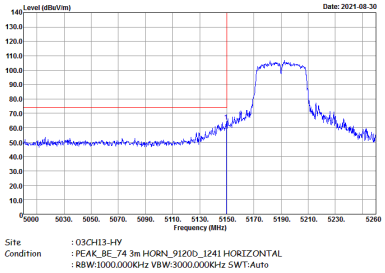
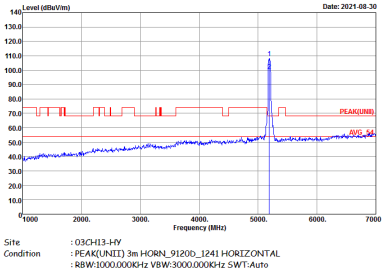
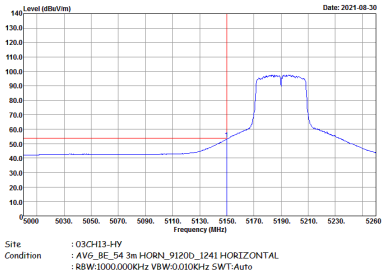
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

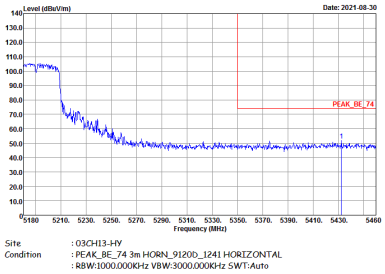
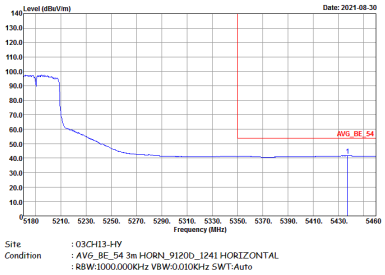
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

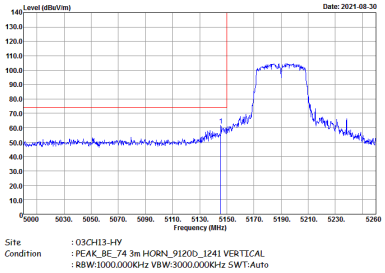
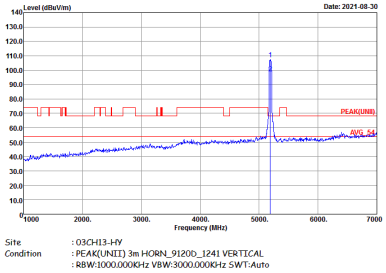
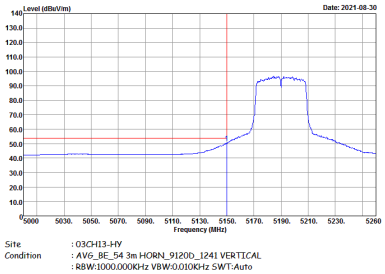
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

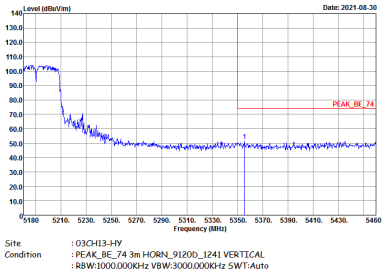
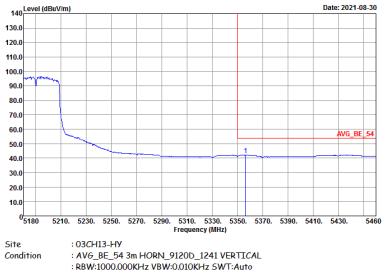
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

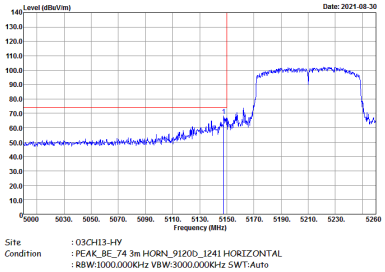
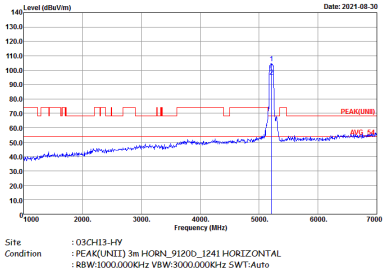
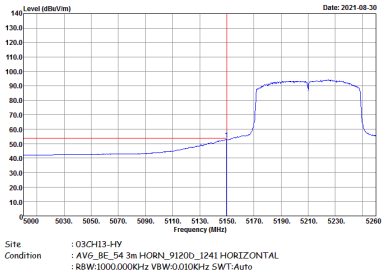
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

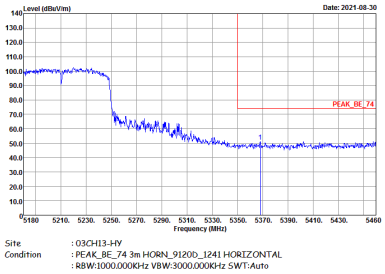
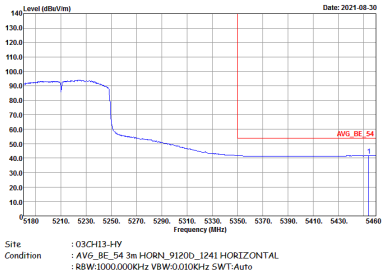
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

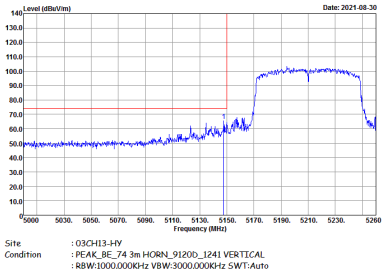
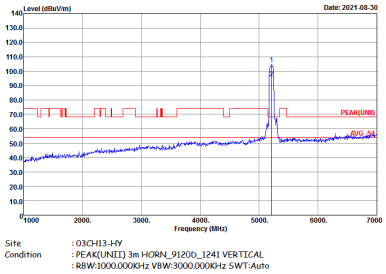
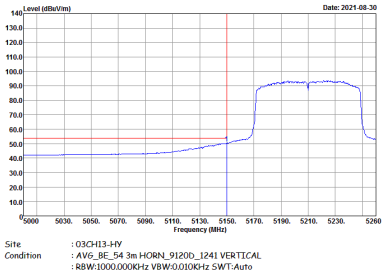
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

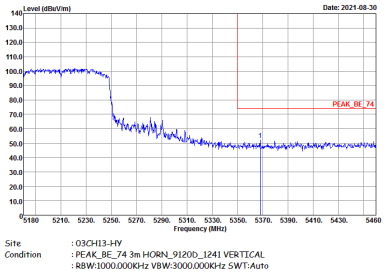
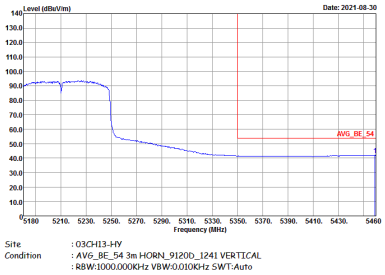
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

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

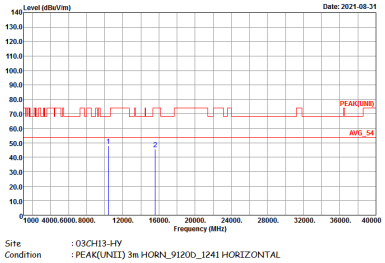
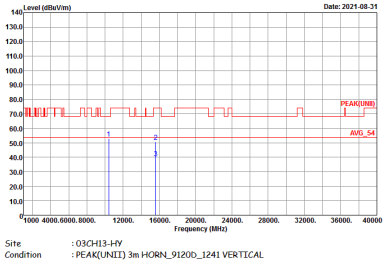
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

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

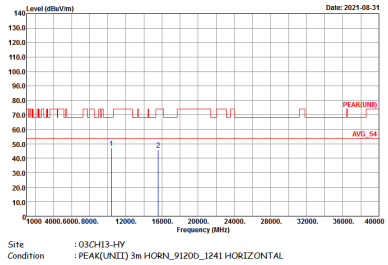
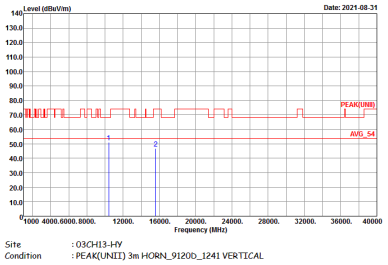
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

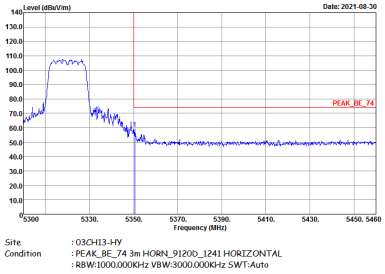
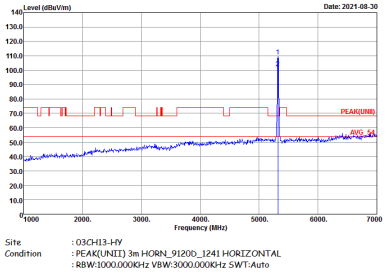
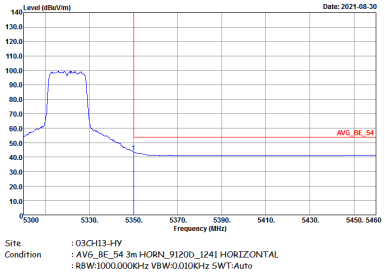
WIFI 802.11a (Harmonic @ 3m)

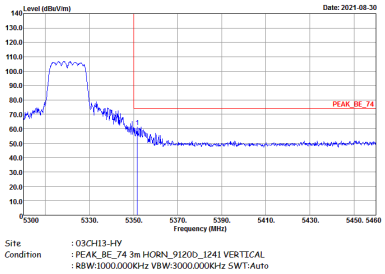
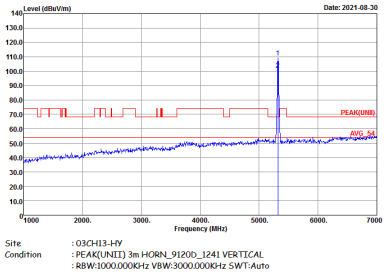
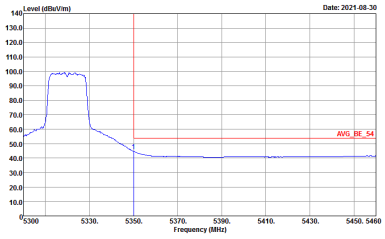
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH40 5200MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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

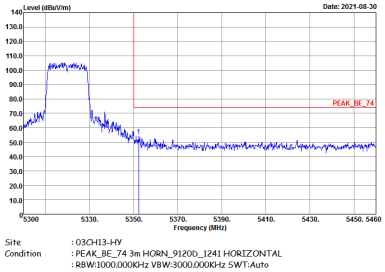
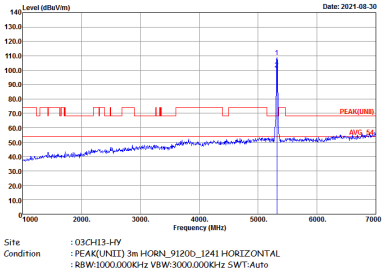
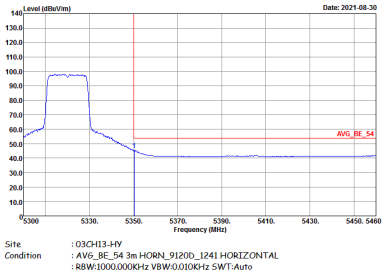
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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

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

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HV Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

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

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

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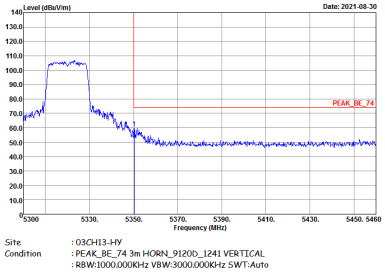
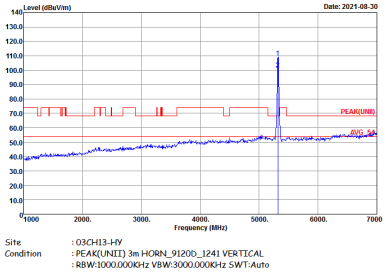
<tr><td>ANT</td><td colspan="2">802.11ac VHT20 CH64 5320MHz</td></tr>
<tr><td>1+2</td><td>Vertical</td><td>Fundamental</td></tr>
<tr><td>Peak</td><td> 
</td><td> 
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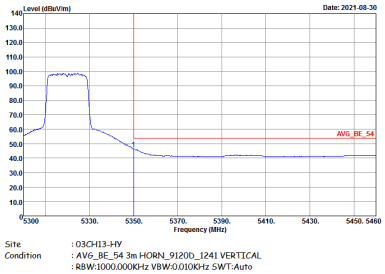
<tr><td>Avg.</td><td> 
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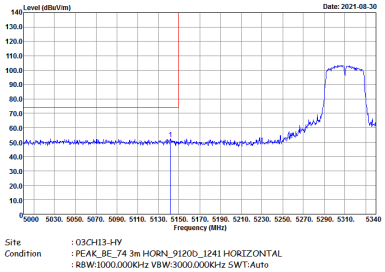
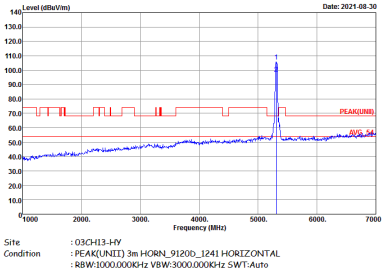
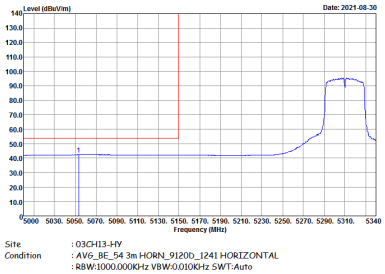
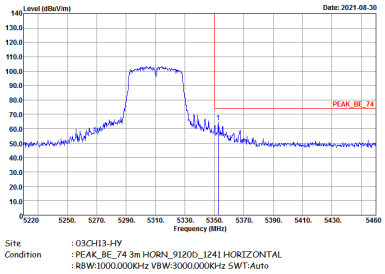
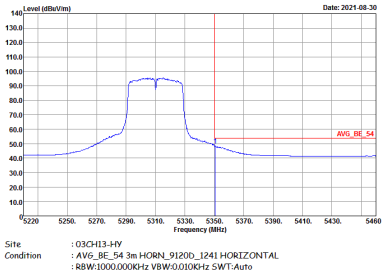
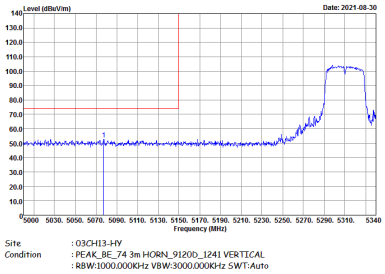
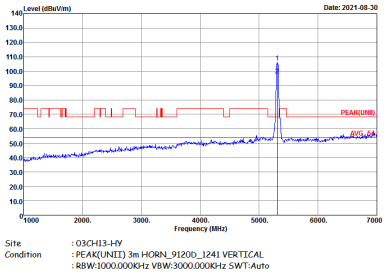
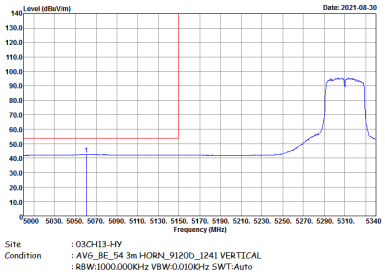
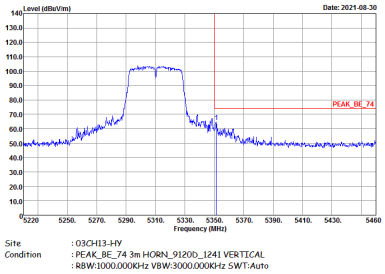
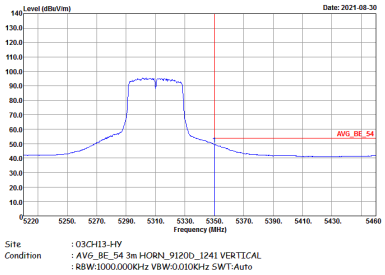
Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

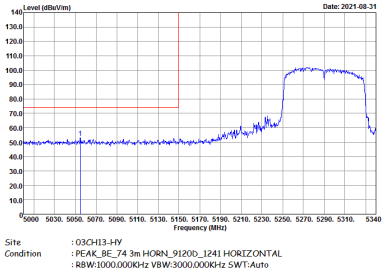
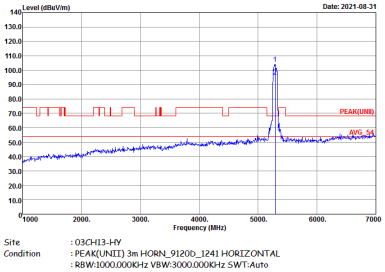
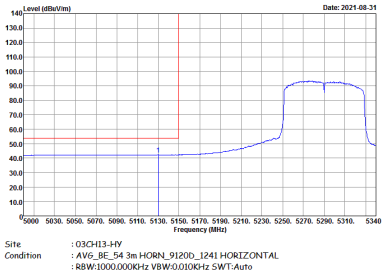
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

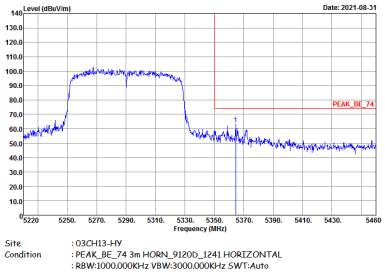
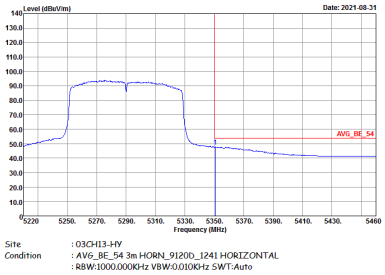
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

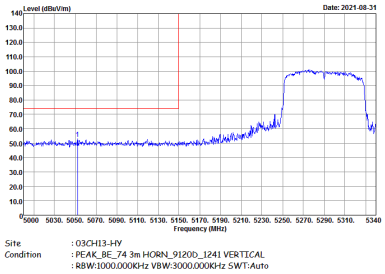
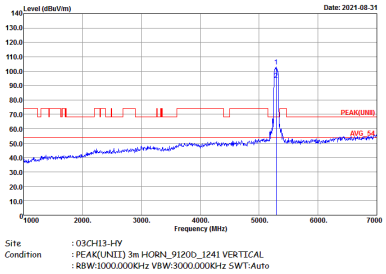
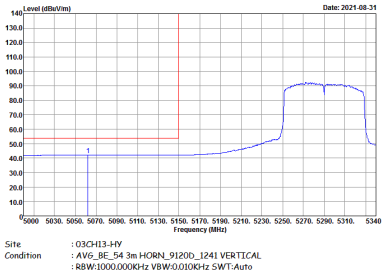
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

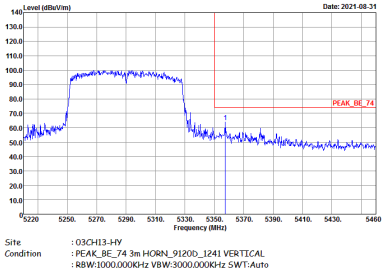
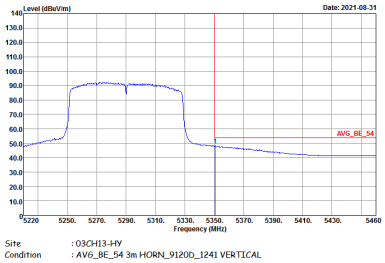
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

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

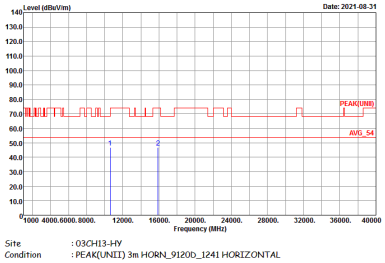
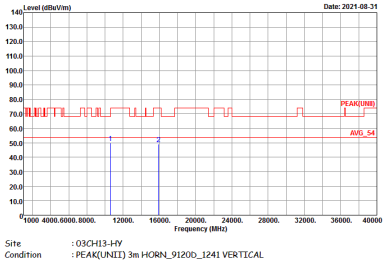
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

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

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

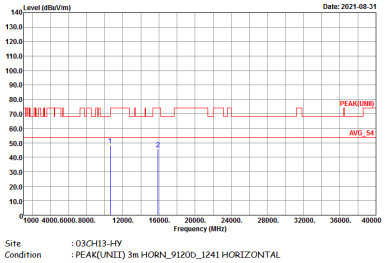
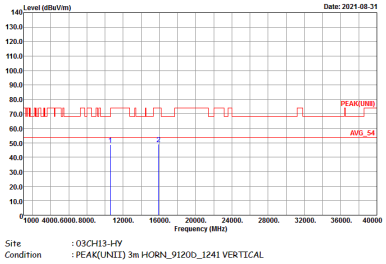
Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

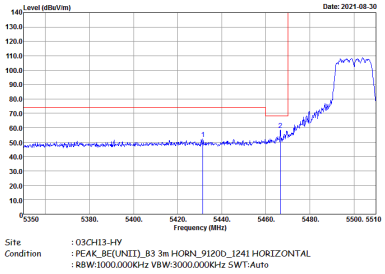
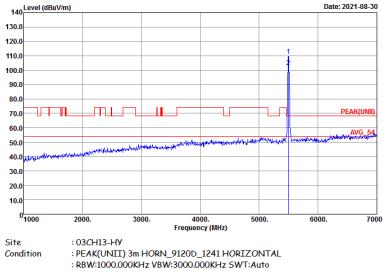
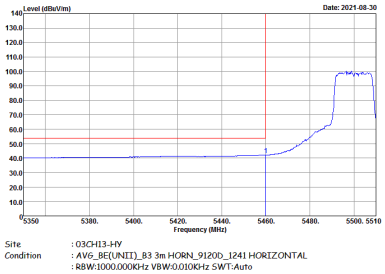
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.		

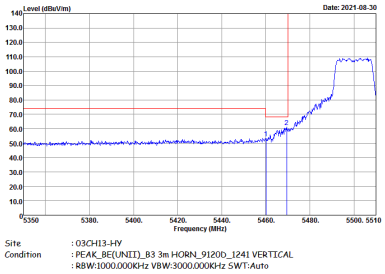
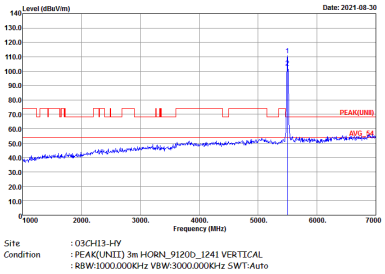
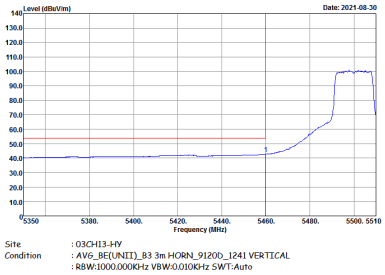
Band 2 5250~5350MHz

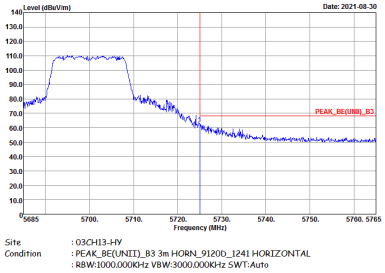
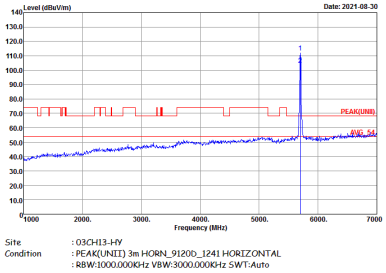
WIFI 802.11ac VHT20 (Harmonic @ 3m)

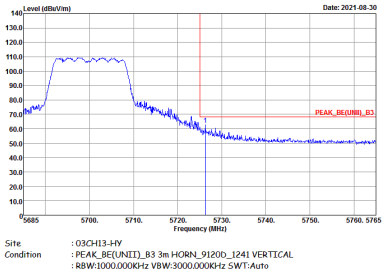
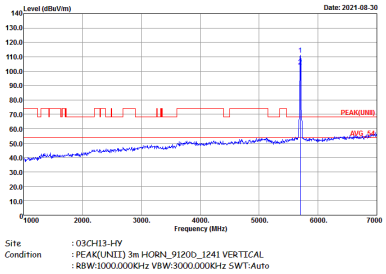
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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

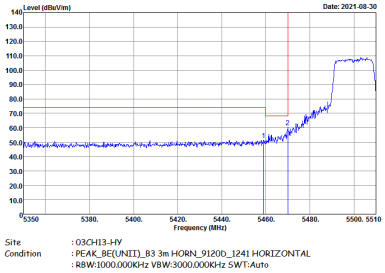
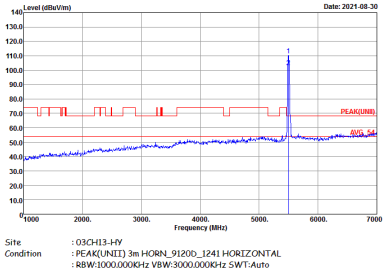
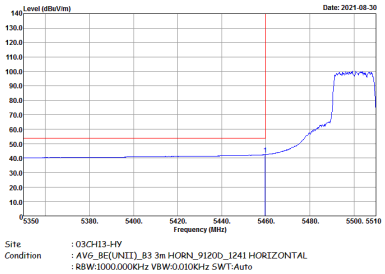
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

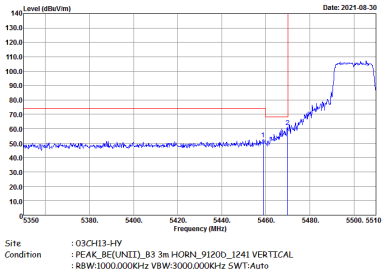
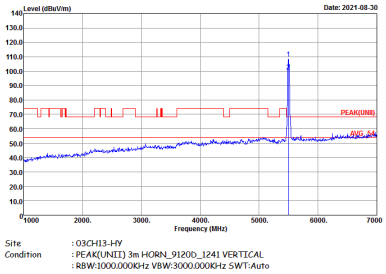
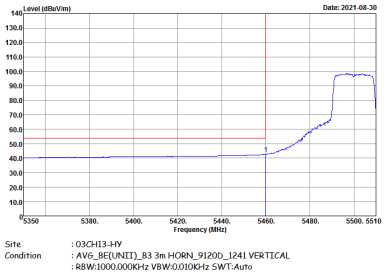
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

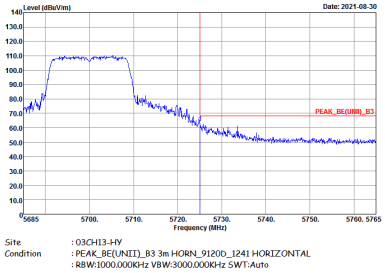
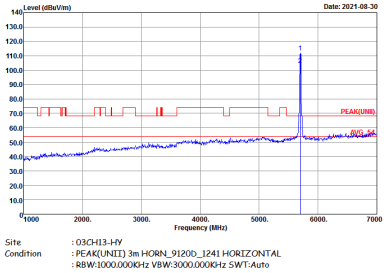
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

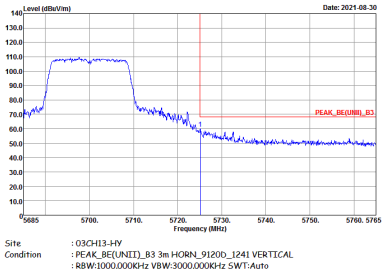
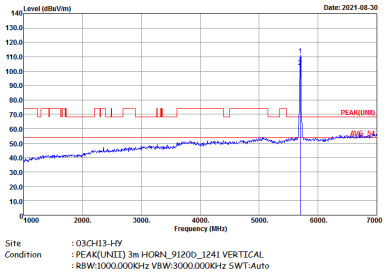
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		

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

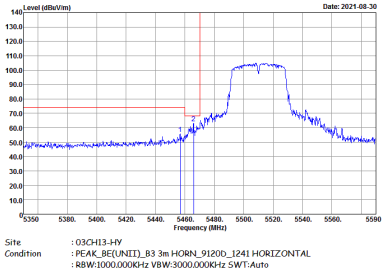
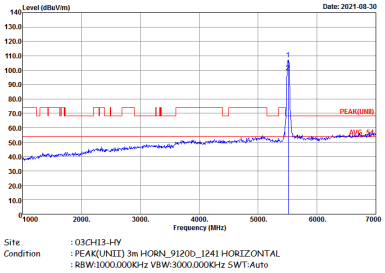
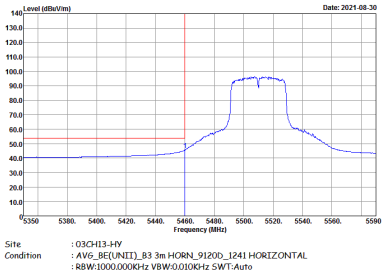
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

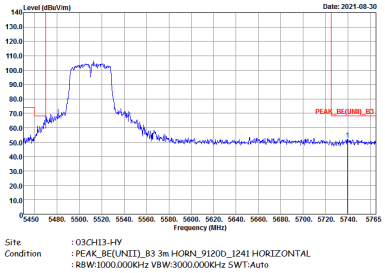
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

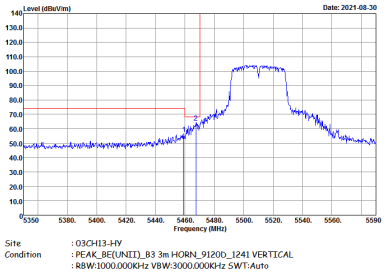
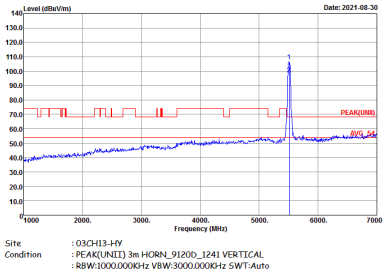
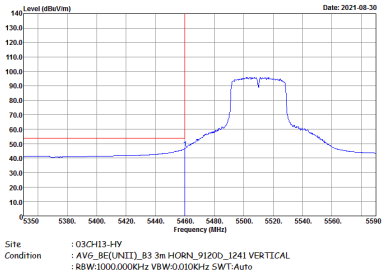
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

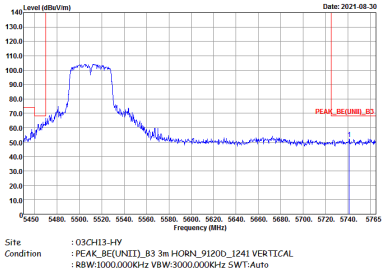
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		

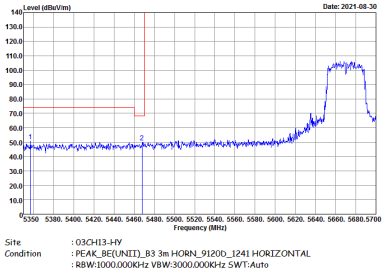
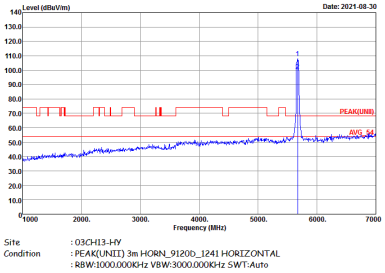
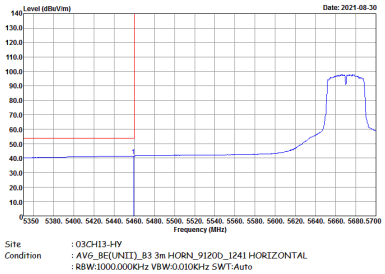
Band 3 5470~5725MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

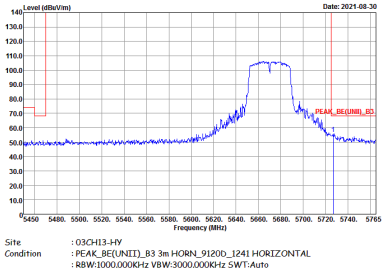
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

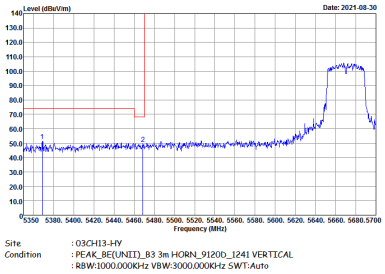
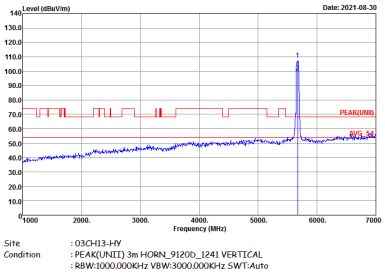
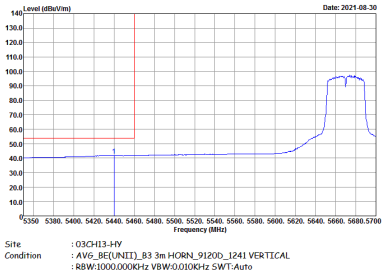
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

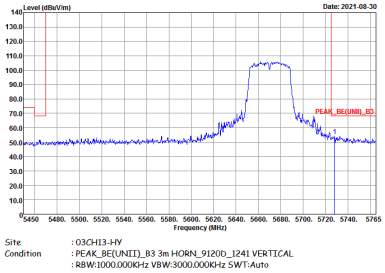
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

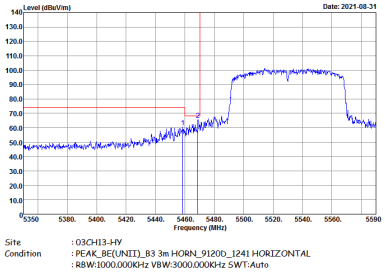
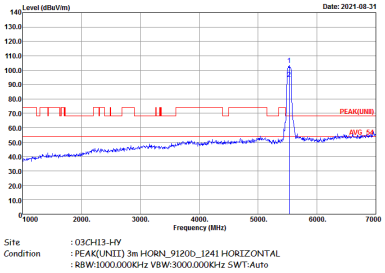
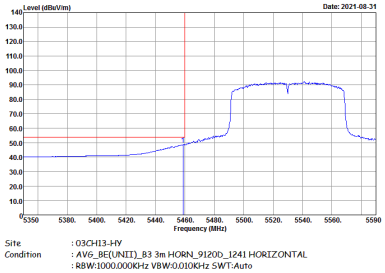
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

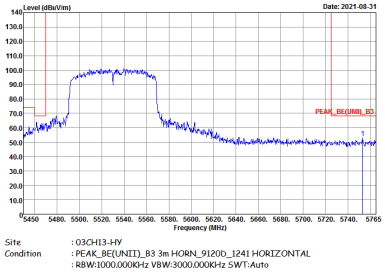
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

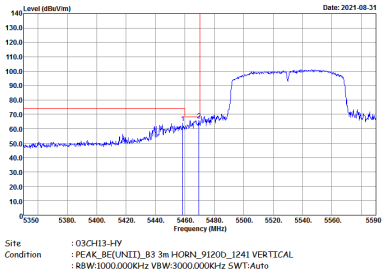
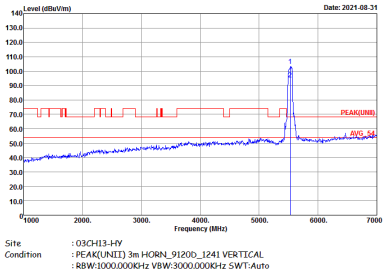
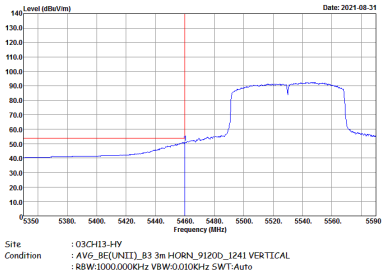
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

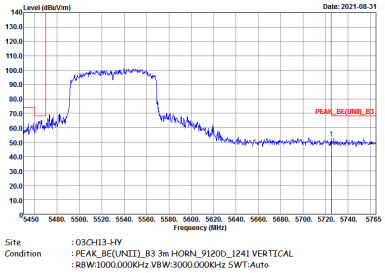
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

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

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

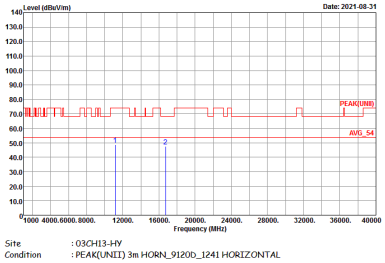
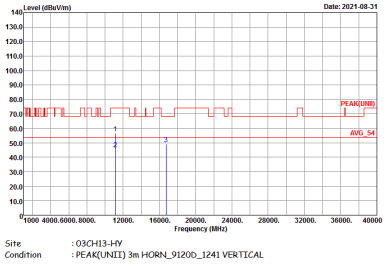
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

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

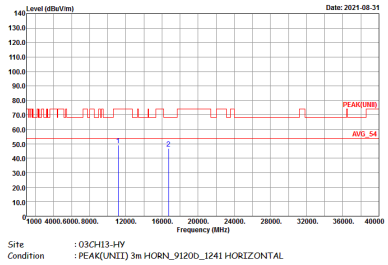
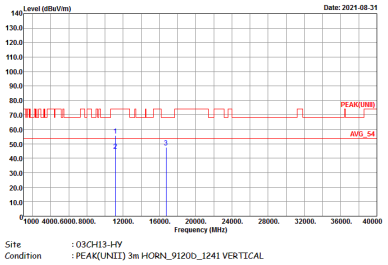
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

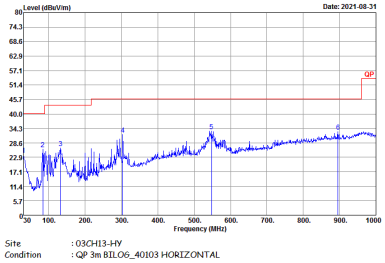
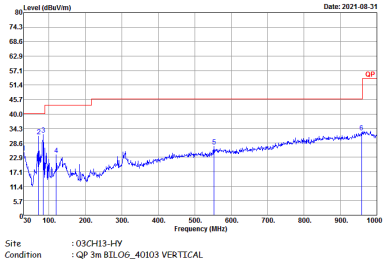
WIFI 802.11a (Harmonic @ 3m)

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

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

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.		

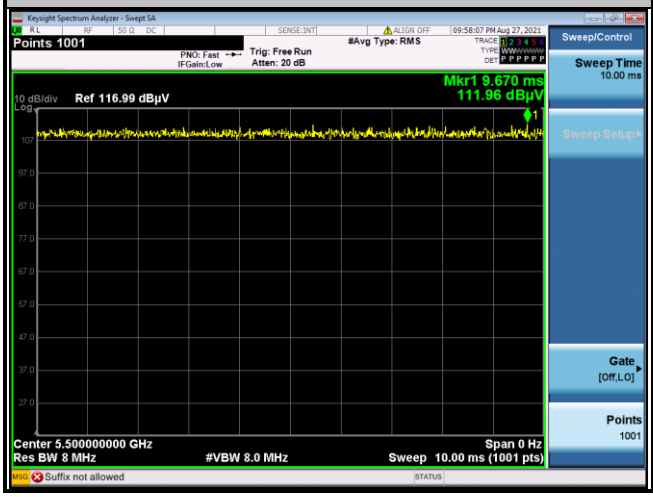
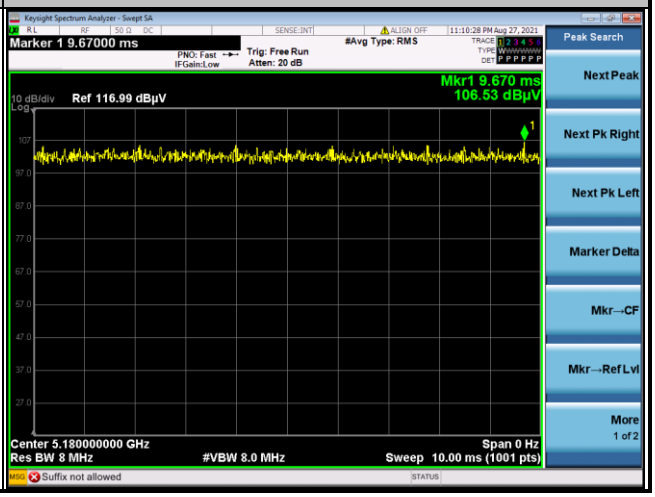
Emission below 1GHz
5GHz WIFI 802.11ac VHT40 (LF)

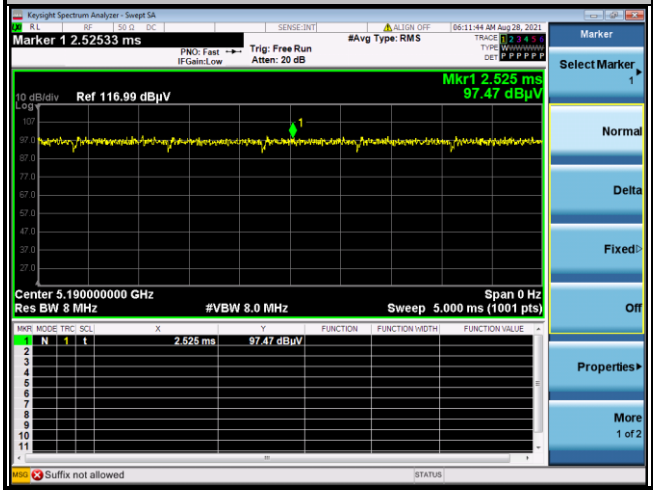
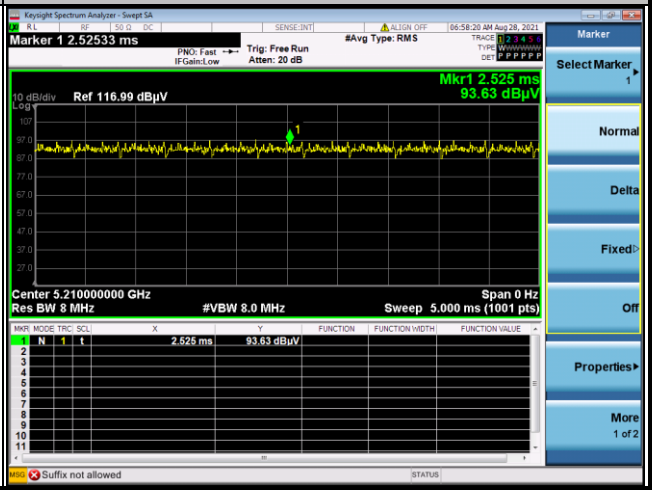
WIFI	5GHz WIFI	
ANT	802.11ac VHT40 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

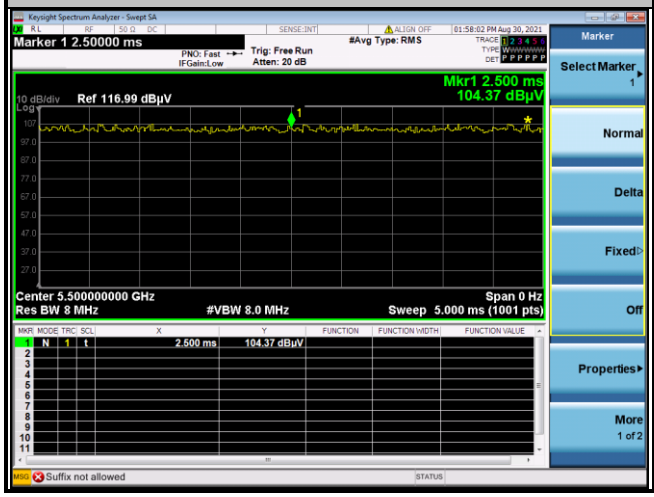
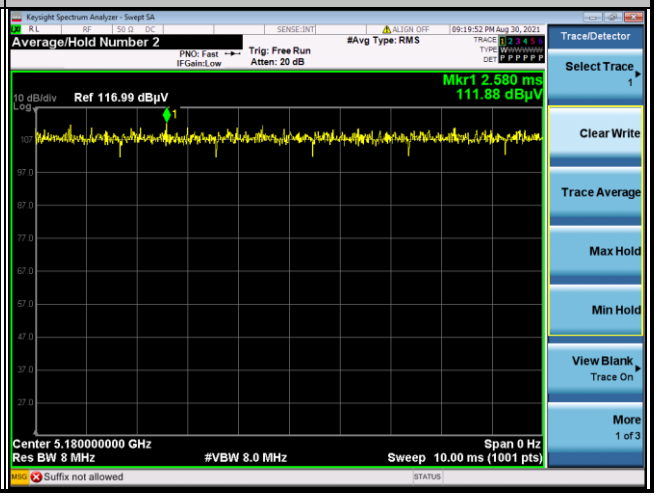
Chain	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	100.00	-	-	10Hz
1	5GHz 802.11ac VHT20	100.00	-	-	10Hz
1	5GHz 802.11ac VHT40	100.00	-	-	10Hz
1	5GHz 802.11ac VHT80	100.00	-	-	10Hz
0+1	802.11a	100.00	-	-	10Hz
0+1	5GHz 802.11ac VHT20	100.00	-	-	10Hz
0+1	5GHz 802.11ac VHT40	100.00	-	-	10Hz
0+1	5GHz 802.11ac VHT80	100.00	-	-	10Hz

<Chain 1>

802.11a	802.11ac VHT20
	

802.11ac VHT40	802.11ac VHT80
	

MIMO <Chain 0+1>

802.11a	802.11ac VHT20
	

802.11ac VHT40	802.11ac VHT80