

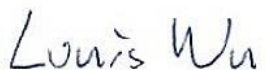


FCC RADIO TEST REPORT

FCC ID : 2AWRO-8762
Equipment : Wireless Tablet
Model Name : T76N2B
Applicant : Abyssal Plain LLC
CASTLE HILLS
1100 NW LOOP 410, SUITE 700, SAN
ANTONIO, TEXAS, 78213
Standard : FCC Part 15 Subpart E §15.407

The product was received on Oct. 14, 2020 and testing was started from Oct. 20, 2020 and completed on Nov. 17, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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



Approved by: Louis Wu

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



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History of this test report

Report No.	Version	Description	Issued Date
FR072932-01F	01	Initial issue of report	Jan. 12, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
3.1	15.403 (i)	6dB & 26dB Bandwidth	Pass
3.1	2.1049	99% Occupied Bandwidth	Reporting only
3.2	15.407 (a)	Maximum Conducted Output Power	Pass
3.3	15.407 (a)	Power Spectral Density	Pass
3.4	15.407(b)	Unwanted Emissions	Pass
3.5	15.207	AC Conducted Emission	Pass
3.6	15.407 (c)	Automatically Discontinue Transmission	Pass
3.7	15.203 & 15.407 (a)	Antenna Requirement	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Celery Wei

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Tablet
Model Name	T76N2B
FCC ID	2AWRO-8762
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard																																
Tx/Rx Frequency Range		5745 MHz ~ 5825 MHz																														
Maximum Average Output Power to antenna	<table><tr><td colspan="4"><Ant. 1></td></tr><tr><td>802.11a</td><td>14.90</td><td>dBm</td><td>0.0309 W</td></tr><tr><td>802.11n HT20</td><td>13.90</td><td>dBm</td><td>0.0245 W</td></tr><tr><td>802.11n HT40</td><td>13.80</td><td>dBm</td><td>0.0240 W</td></tr><tr><td>802.11ac VHT20</td><td>13.40</td><td>dBm</td><td>0.0219 W</td></tr><tr><td>802.11ac VHT40</td><td>12.90</td><td>dBm</td><td>0.0195 W</td></tr><tr><td>802.11ac VHT80</td><td>12.70</td><td>dBm</td><td>0.0186 W</td></tr></table>				<Ant. 1>				802.11a	14.90	dBm	0.0309 W	802.11n HT20	13.90	dBm	0.0245 W	802.11n HT40	13.80	dBm	0.0240 W	802.11ac VHT20	13.40	dBm	0.0219 W	802.11ac VHT40	12.90	dBm	0.0195 W	802.11ac VHT80	12.70	dBm	0.0186 W
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	<table><tr><td colspan="4"><Ant. 2></td></tr><tr><td>802.11a</td><td>14.70</td><td>dBm</td><td>0.0295 W</td></tr><tr><td>802.11n HT20</td><td>13.70</td><td>dBm</td><td>0.0234 W</td></tr><tr><td>802.11n HT40</td><td>13.90</td><td>dBm</td><td>0.0245 W</td></tr><tr><td>802.11ac VHT20</td><td>13.40</td><td>dBm</td><td>0.0219 W</td></tr><tr><td>802.11ac VHT40</td><td>12.70</td><td>dBm</td><td>0.0186 W</td></tr><tr><td>802.11ac VHT80</td><td>12.60</td><td>dBm</td><td>0.0182 W</td></tr></table>				<Ant. 2>				802.11a	14.70	dBm	0.0295 W	802.11n HT20	13.70	dBm	0.0234 W	802.11n HT40	13.90	dBm	0.0245 W	802.11ac VHT20	13.40	dBm	0.0219 W	802.11ac VHT40	12.70	dBm	0.0186 W	802.11ac VHT80	12.60	dBm	0.0182 W
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99% Occupied Bandwidth	<table><tr><td colspan="3"><Ant. 1></td></tr><tr><td>802.11a</td><td>16.93</td><td>MHz</td></tr><tr><td>802.11n HT20</td><td>17.93</td><td>MHz</td></tr><tr><td>802.11n HT40</td><td>36.76</td><td>MHz</td></tr><tr><td>802.11ac VHT80</td><td>76.84</td><td>MHz</td></tr></table>			<Ant. 1>			802.11a	16.93	MHz	802.11n HT20	17.93	MHz	802.11n HT40	36.76	MHz	802.11ac VHT80	76.84	MHz
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	802.11a	16.93	MHz															
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	802.11ac VHT80	76.84	MHz															
	<table><tr><td colspan="3"><Ant. 2></td></tr><tr><td>802.11a</td><td>17.08</td><td>MHz</td></tr><tr><td>802.11n HT20</td><td>17.78</td><td>MHz</td></tr><tr><td>802.11n HT40</td><td>36.66</td><td>MHz</td></tr><tr><td>802.11ac VHT80</td><td>76.72</td><td>MHz</td></tr></table>			<Ant. 2>			802.11a	17.08	MHz	802.11n HT20	17.78	MHz	802.11n HT40	36.66	MHz	802.11ac VHT80	76.72	MHz
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802.11ac VHT80	76.72	MHz																

Product Specification subjective to this standard	
Antenna Type	<5745 MHz ~ 5825 MHz> Ant. 1 : PIFA Antenna Ant. 2 : PIFA Antenna
Antenna Gain	Ant. 1 : 1.00 dBi Ant. 2 : -0.10 dBi
Type of Modulation	802.11a/n : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)

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

1.3 Modification of EUT

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

1.4 Testing Location

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

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory		
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855		
Test Site No.	Sporton Site No.		
	03CH16-HY		

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

FCC designation No.: TW1190 and TW0007



1.5 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

Note:

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

2.2 Test Mode

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

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

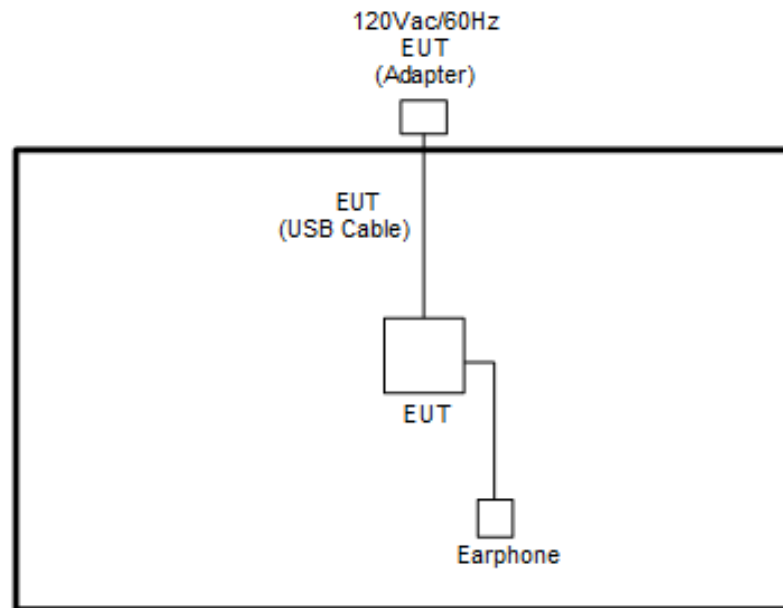
Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + H Pattern + MicroSD Card + Earphone + USB Cable (Charging from AC Adapter (AP15))
Remark: For Radiated Test Cases, the tests were performed with Adapter (AP15).	

Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

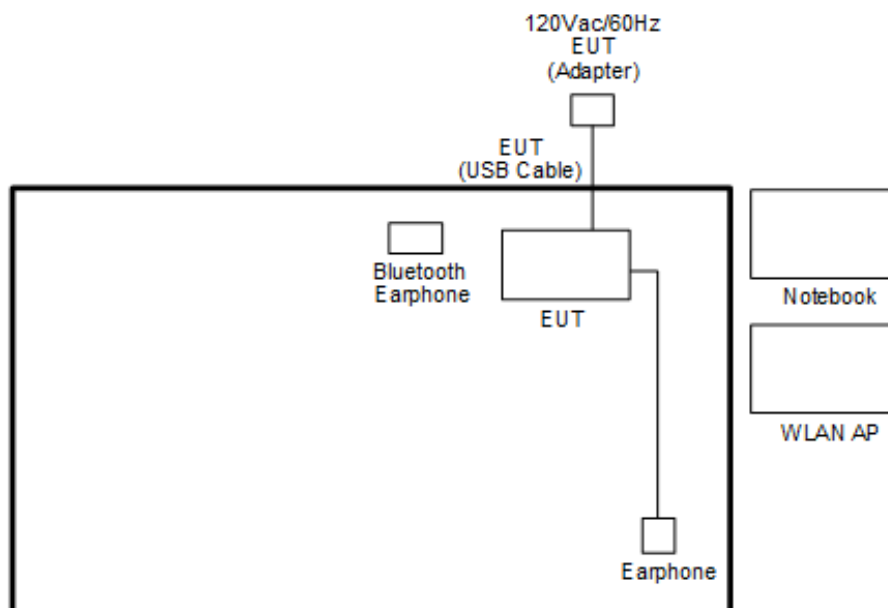
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Earphone	N/A	N/A	N/A	Unshielded, 1.15m	N/A
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

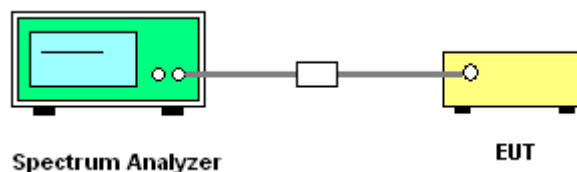
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

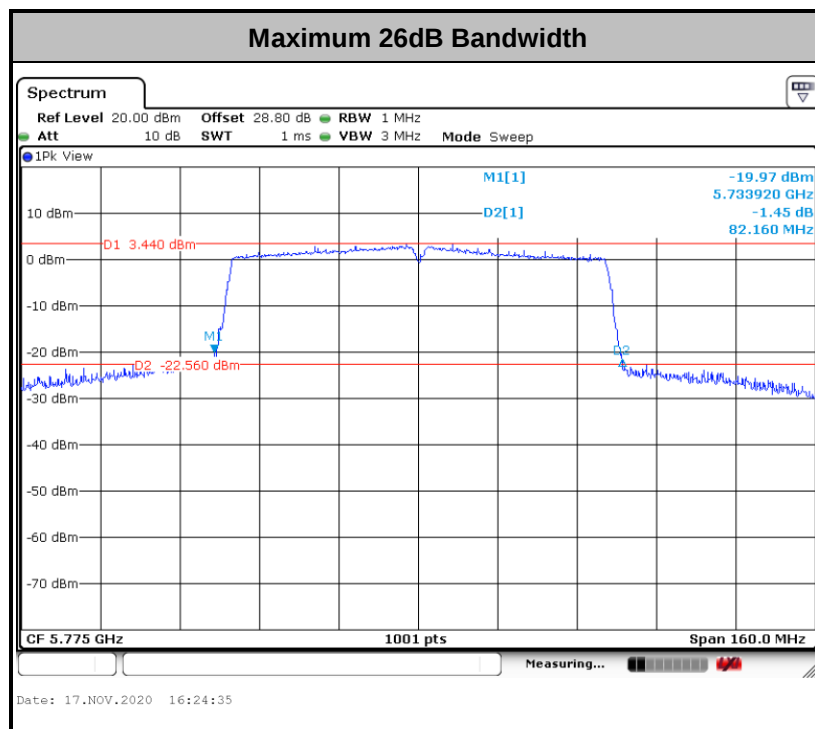
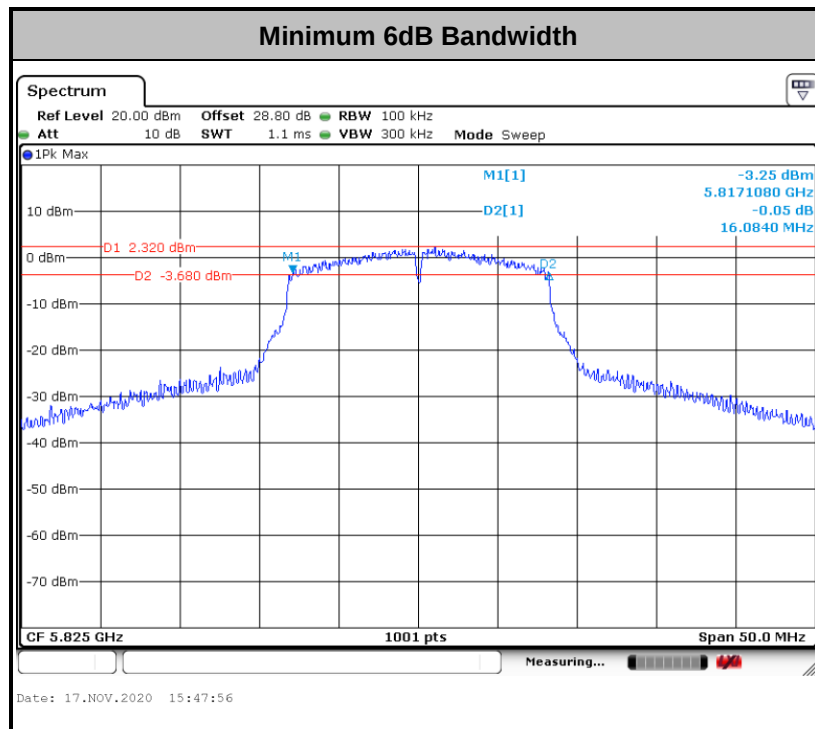
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

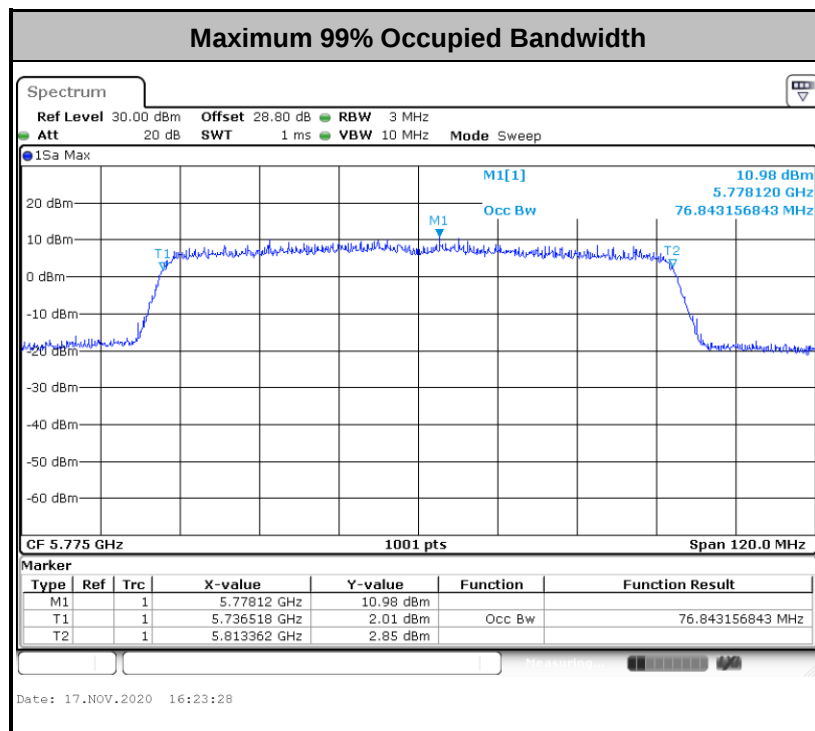
3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.





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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

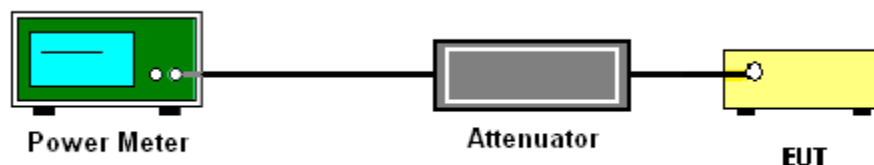
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

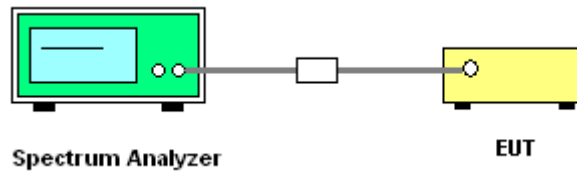
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-3

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

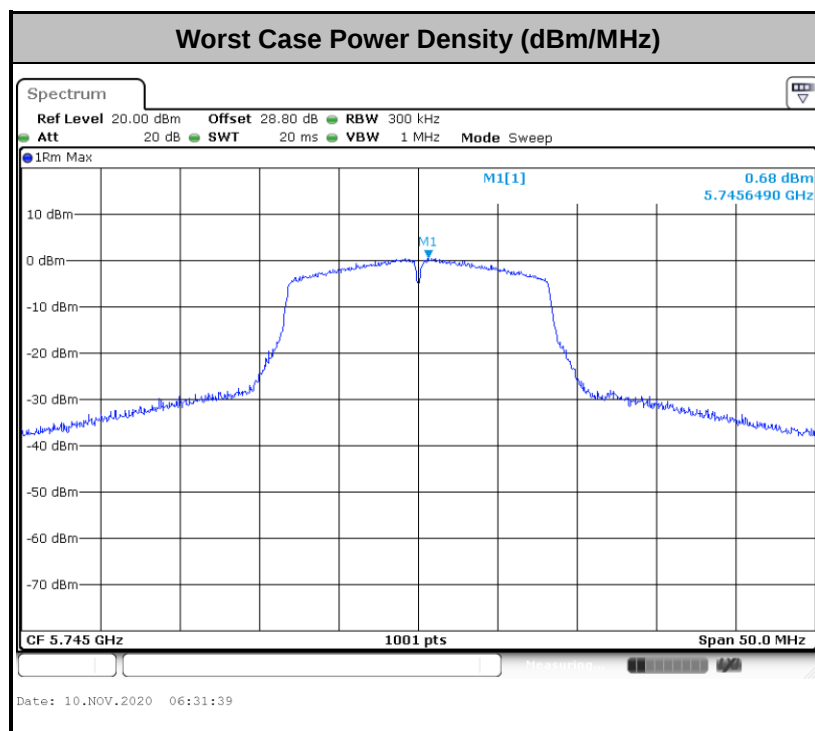
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW $\geq$ 1 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time $\leq$ (number of points in sweep) $\times$ T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
 - Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
-
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

- (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.

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

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

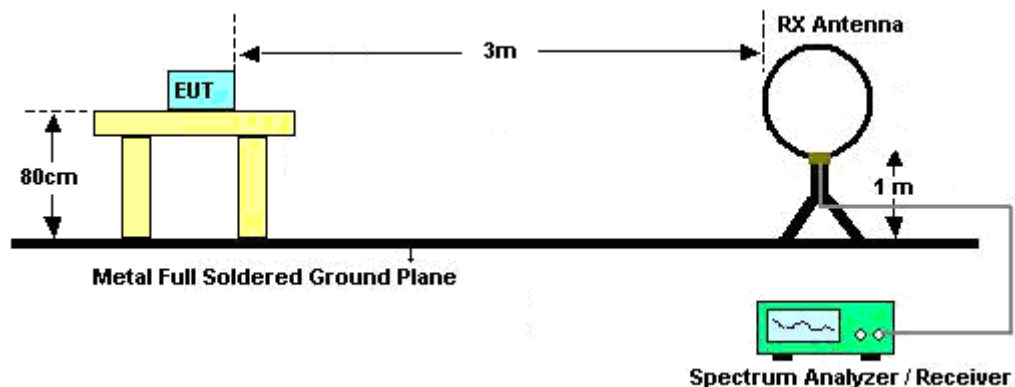
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

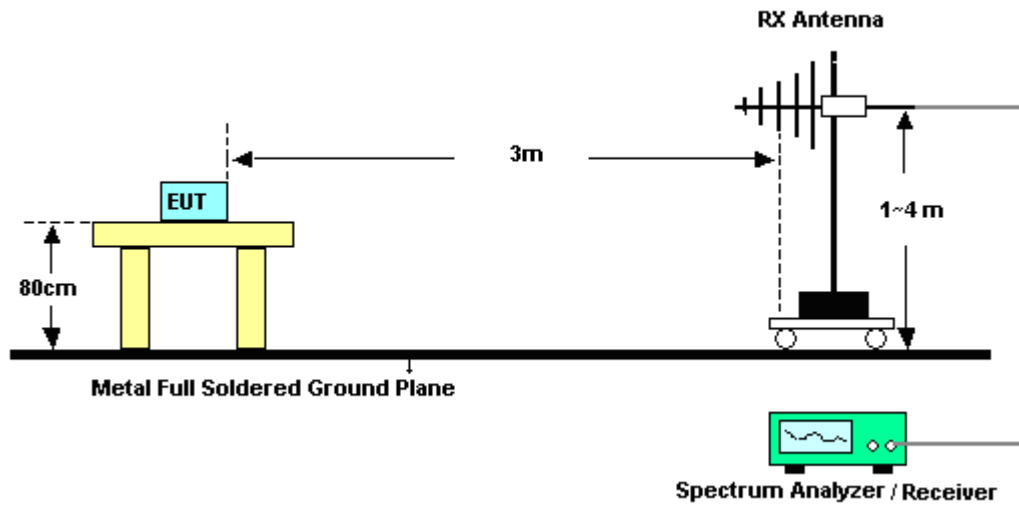
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

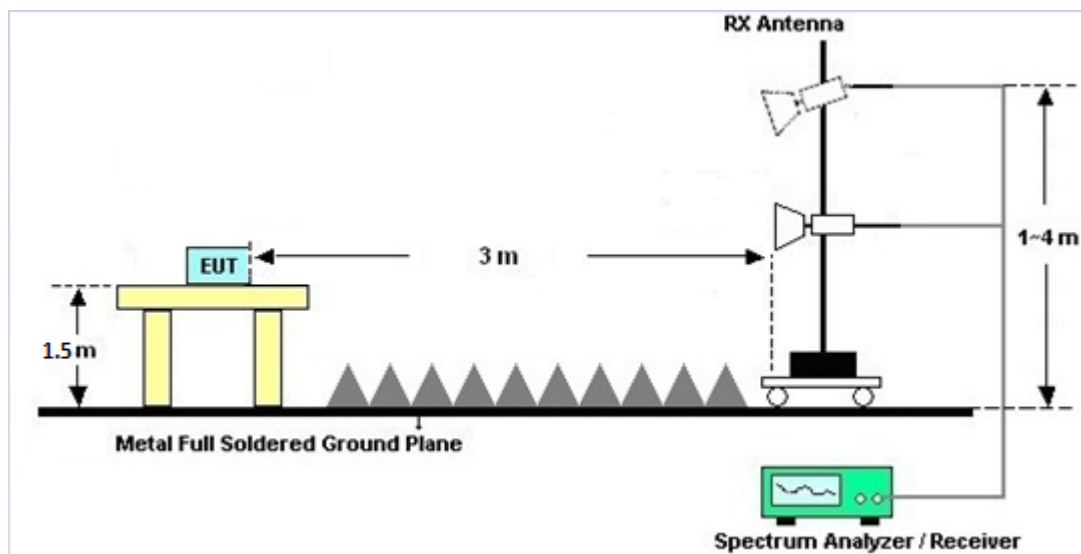
For radiated emissions below 30MHz



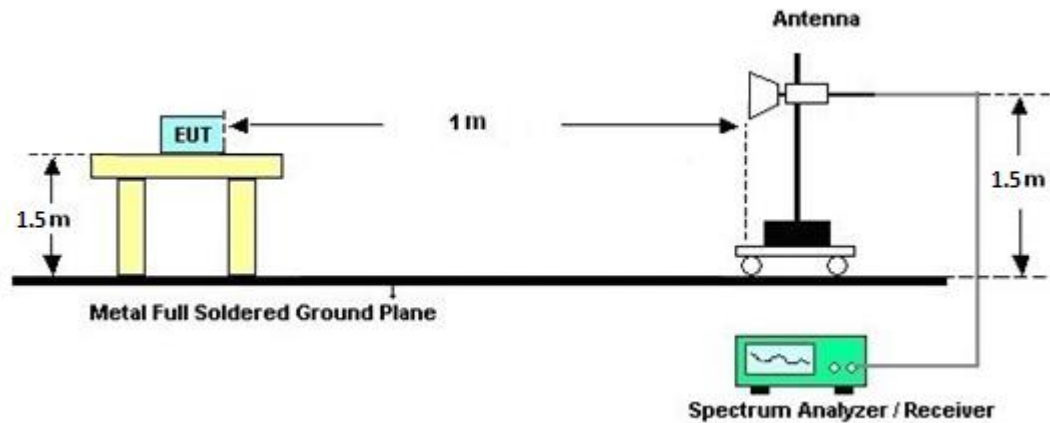
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



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

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

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

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

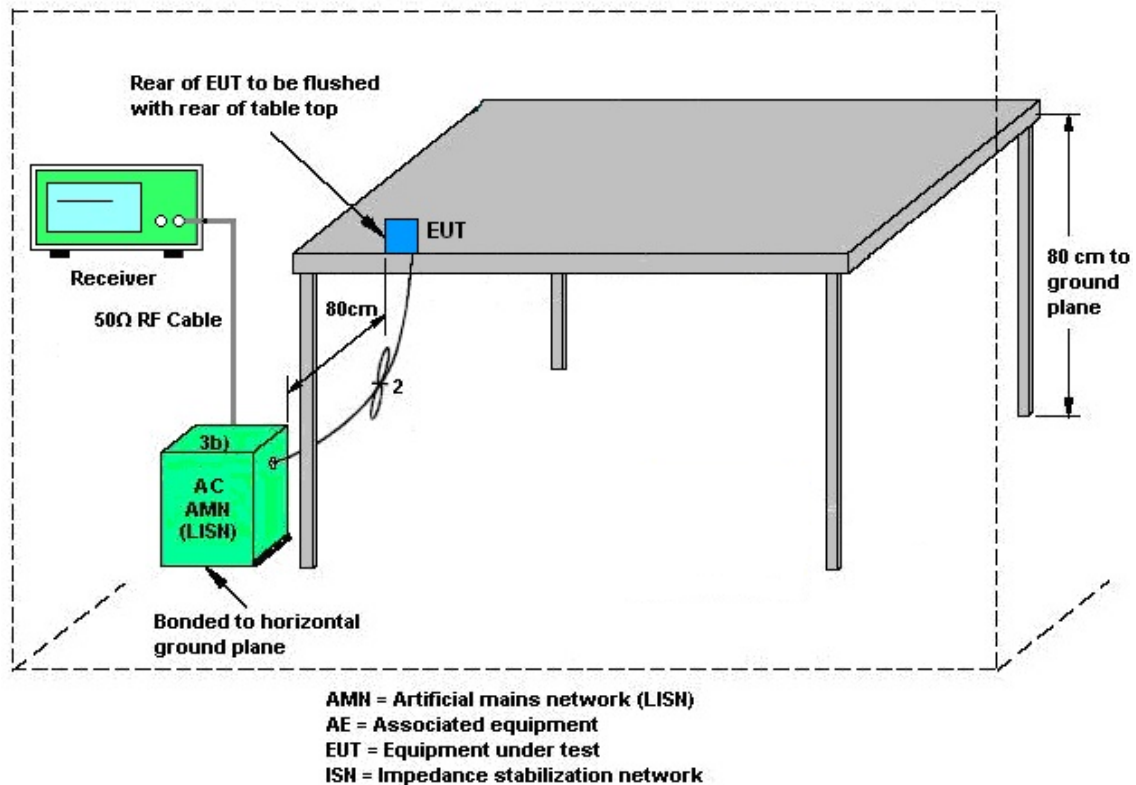
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

- A. Information start: make EUT supply information to the access point.
- B. Information stop: stop supplying information to the access point.

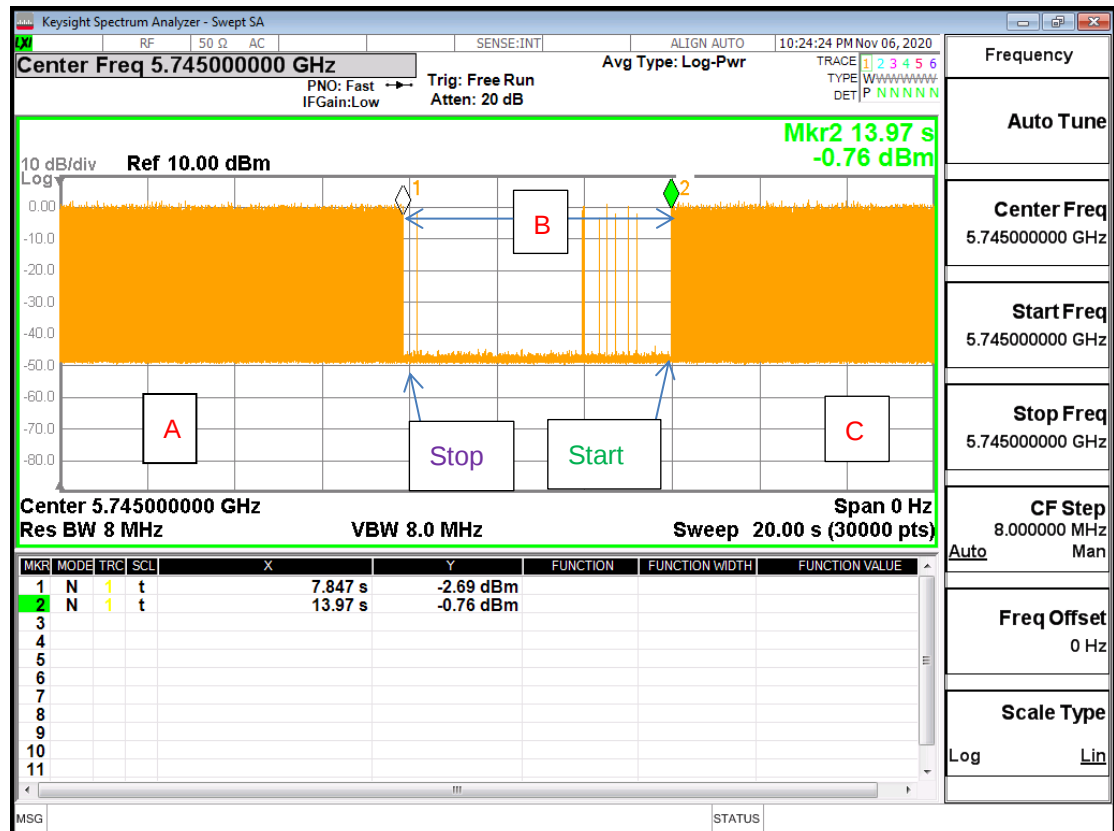
While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

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

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



5745MHz



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



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Oct. 28, 2020~ Nov. 17, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Oct. 28, 2020~ Nov. 17, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz~40GHz	May 05, 2020	Oct. 28, 2020~ Nov. 17, 2020	May 04, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Oct. 28, 2020~ Nov. 17, 2020	Mar. 16, 2021	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Oct. 20, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Oct. 20, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Oct. 20, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Oct. 20, 2020	Nov. 19, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Oct. 20, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Oct. 20, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Oct. 20, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Spectrum Analyzer	Keysight	N9010A	MY560704 12	10Hz~7GHz	Aug. 27, 2020	Nov. 06, 2020	Aug. 26, 2021	DFS (DFS02-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Oct. 29, 2020~ Nov. 03, 2020	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	41912 & 05	30MHz to 1GHz	Feb. 09, 2020	Oct. 29, 2020~ Nov. 03, 2020	Feb. 08, 2021	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz~40GHz	Dec. 10, 2019	Oct. 29, 2020~ Nov. 03, 2020	Dec. 09, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Sep. 30, 2020	Oct. 29, 2020~ Nov. 03, 2020	Sep. 29, 2021	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-121 2	1G~18GHz	May 20, 2020	Oct. 29, 2020~ Nov. 03, 2020	May 19, 2021	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 0054001	1GHz~18GHz	Sep. 04, 2020	Oct. 29, 2020~ Nov. 03, 2020	Sep. 03, 2021	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~40GHz	Dec. 13, 2019	Oct. 29, 2020~ Nov. 03, 2020	Dec. 12, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY532702 64	1GHz~26.5GHz	Dec. 11, 2019	Oct. 29, 2020~ Nov. 03, 2020	Dec.10, 2020	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY572901 11	3Hz~26.5GHz	Dec. 05, 2019	Oct. 29, 2020~ Nov. 03, 2020	Dec. 04, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/ 4PE	NA	Aug. 29, 2020	Oct. 29, 2020~ Nov. 03, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/ 4PE	NA	Aug. 29, 2020	Oct. 29, 2020~ Nov. 03, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300 -5757	NA	Aug. 29, 2020	Oct. 29, 2020~ Nov. 03, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-302	SN1	N/A	Aug. 07, 2020	Oct. 29, 2020~ Nov. 03, 2020	Aug. 06, 2021	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Oct. 29, 2020~ Nov. 03, 2020	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Oct. 29, 2020~ Nov. 03, 2020	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Oct. 29, 2020~ Nov. 03, 2020	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Oct. 29, 2020~ Nov. 03, 2020	N/A	Radiation (03CH16-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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu/Kathy Chen	Temperature:	22.8~23.6	°C
Test Date:	2020/10/28~2020/11/17	Relative Humidity:	53.6~54.7	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

Band IV single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	16.88	17.08	24.13	24.03	16.33	16.28	0.5	Pass
11a	6Mbps	1	157	5785	16.93	16.93	22.73	24.63	16.28	16.28	0.5	Pass
11a	6Mbps	1	165	5825	16.88	16.83	23.48	23.53	16.08	16.33	0.5	Pass
HT20	MCS0	1	149	5745	17.88	17.78	22.13	23.23	17.53	17.48	0.5	Pass
HT20	MCS0	1	157	5785	17.93	17.78	22.53	23.48	17.53	17.53	0.5	Pass
HT20	MCS0	1	165	5825	17.88	17.78	24.38	24.23	17.53	17.48	0.5	Pass
HT40	MCS0	1	151	5755	36.66	36.56	41.99	44.60	35.69	35.69	0.5	Pass
HT40	MCS0	1	159	5795	36.76	36.66	44.51	42.71	36.05	35.78	0.5	Pass
VHT80	MCS0	1	155	5775	76.84	76.72	82.16	81.68	76.40	76.40	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV 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	149	5745	14.90	14.70		30.00	30.00	1.00	-0.10	Pass
11a	6Mbps	1	157	5785	14.60	14.60		30.00	30.00	1.00	-0.10	Pass
11a	6Mbps	1	165	5825	14.90	14.70		30.00	30.00	1.00	-0.10	Pass
HT20	MCS0	1	149	5745	13.80	13.70		30.00	30.00	1.00	-0.10	Pass
HT20	MCS0	1	157	5785	13.90	13.70		30.00	30.00	1.00	-0.10	Pass
HT20	MCS0	1	165	5825	13.80	13.60		30.00	30.00	1.00	-0.10	Pass
HT40	MCS0	1	151	5755	13.60	13.60		30.00	30.00	1.00	-0.10	Pass
HT40	MCS0	1	159	5795	13.80	13.90		30.00	30.00	1.00	-0.10	Pass
VHT20	MCS0	1	149	5745	13.20	13.40		30.00	30.00	1.00	-0.10	Pass
VHT20	MCS0	1	157	5785	13.40	13.20		30.00	30.00	1.00	-0.10	Pass
VHT20	MCS0	1	165	5825	13.30	13.40		30.00	30.00	1.00	-0.10	Pass
VHT40	MCS0	1	151	5755	12.60	12.60		30.00	30.00	1.00	-0.10	Pass
VHT40	MCS0	1	159	5795	12.90	12.70		30.00	30.00	1.00	-0.10	Pass
VHT80	MCS0	1	155	5775	12.70	12.60		30.00	30.00	1.00	-0.10	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	2.22	2.22	2.90	2.78		30.00	30.00	1.00	-0.10	Pass
11a	6Mbps	1	157	5785	2.22	2.22	2.81	2.73		30.00	30.00	1.00	-0.10	Pass
11a	6Mbps	1	165	5825	2.22	2.22	2.53	2.46		30.00	30.00	1.00	-0.10	Pass
HT20	MCS0	1	149	5745	2.22	2.22	1.50	1.76		30.00	30.00	1.00	-0.10	Pass
HT20	MCS0	1	157	5785	2.22	2.22	1.59	1.86		30.00	30.00	1.00	-0.10	Pass
HT20	MCS0	1	165	5825	2.22	2.22	1.84	1.70		30.00	30.00	1.00	-0.10	Pass
HT40	MCS0	1	151	5755	2.22	2.22	-1.18	-1.36		30.00	30.00	1.00	-0.10	Pass
HT40	MCS0	1	159	5795	2.22	2.22	-1.08	-0.98		30.00	30.00	1.00	-0.10	Pass
VHT80	MCS0	1	155	5775	2.22	2.22	-6.45	-5.90		30.00	30.00	1.00	-0.10	Pass



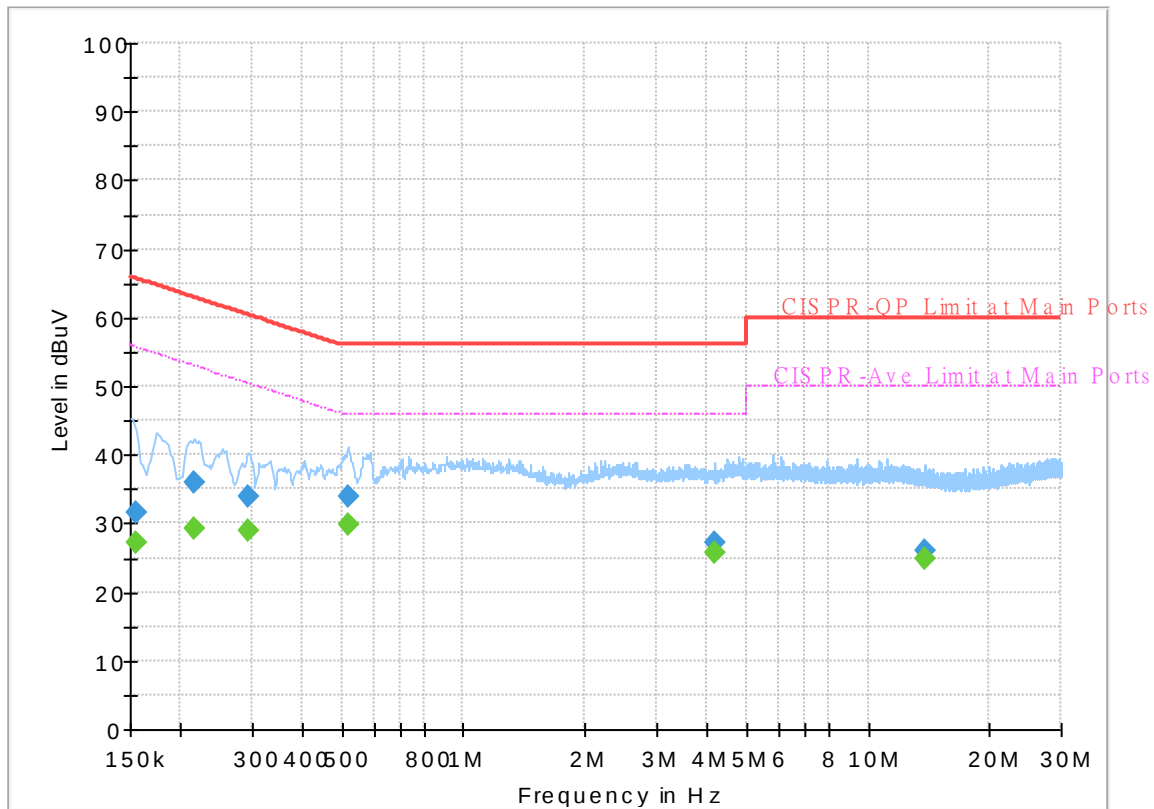
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang and Bor-Shiang, Huang	Temperature :	24~26°C
		Relative Humidity :	38~41%

EUT Information

Report NO : 072932-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



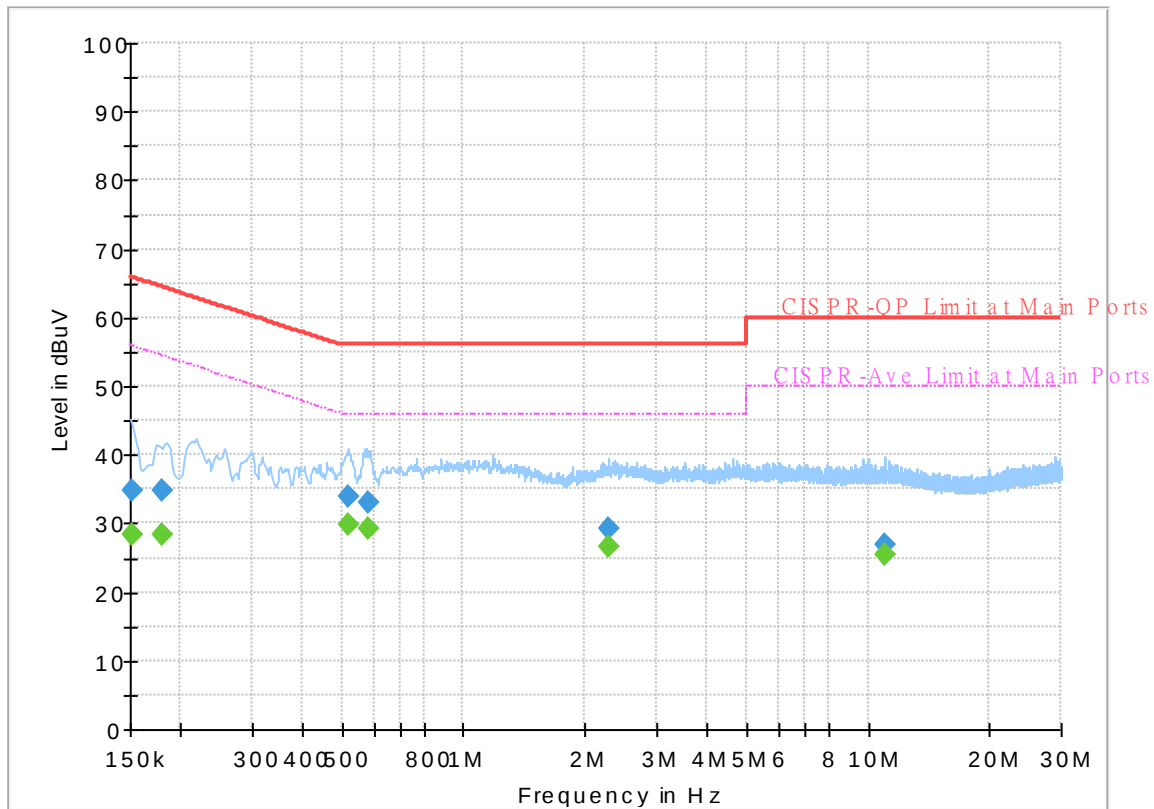
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154725	---	27.08	55.74	28.66	L1	OFF	19.6
0.154725	31.45	---	65.74	34.29	L1	OFF	19.6
0.217140	---	29.16	52.93	23.77	L1	OFF	19.6
0.217140	36.00	---	62.93	26.93	L1	OFF	19.6
0.293370	---	28.96	50.43	21.47	L1	OFF	19.6
0.293370	33.86	---	60.43	26.57	L1	OFF	19.6
0.519090	---	29.94	46.00	16.06	L1	OFF	19.6
0.519090	34.06	---	56.00	21.94	L1	OFF	19.6
4.179750	---	25.64	46.00	20.36	L1	OFF	19.7
4.179750	27.33	---	56.00	28.67	L1	OFF	19.7
13.899210	---	24.77	50.00	25.23	L1	OFF	20.2
13.899210	25.93	---	60.00	34.07	L1	OFF	20.2

EUT Information

Report NO : 072932-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.151958	---	28.44	55.89	27.45	N	OFF	19.5
0.151958	34.77	---	65.89	31.12	N	OFF	19.5
0.180150	---	28.39	54.48	26.09	N	OFF	19.5
0.180150	34.85	---	64.48	29.63	N	OFF	19.5
0.520800	---	29.74	46.00	16.26	N	OFF	19.5
0.520800	33.85	---	56.00	22.15	N	OFF	19.5
0.580920	---	29.25	46.00	16.75	N	OFF	19.5
0.580920	33.15	---	56.00	22.85	N	OFF	19.5
2.289750	---	26.70	46.00	19.30	N	OFF	19.6
2.289750	29.29	---	56.00	26.71	N	OFF	19.6
10.966830	---	25.39	50.00	24.61	N	OFF	19.8
10.966830	26.78	---	60.00	33.22	N	OFF	19.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Andy Yang, Karl Hou and CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~65%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5615.2	56.17	-12.03	68.2	39.9	31.67	13.65	29.05	100	202	P	H
		5692.2	56.84	-42.61	99.45	40.47	31.68	13.72	29.03	100	202	P	H
		5718.4	69.87	-40.48	110.35	53.34	31.81	13.75	29.03	100	202	P	H
		5723	73.93	-43.71	117.64	57.37	31.84	13.75	29.03	100	202	P	H
	*	5745	112.05	-	-	95.33	31.97	13.77	29.02	100	202	P	H
	*	5745	104.23	-	-	87.51	31.97	13.77	29.02	100	202	A	H
		5637	55.91	-12.29	68.2	39.66	31.63	13.67	29.05	268	73	P	V
		5683.6	54.79	-38.31	93.1	38.44	31.67	13.72	29.04	268	73	P	V
		5719	63.18	-47.34	110.52	46.65	31.81	13.75	29.03	268	73	P	V
		5724.4	67.36	-53.47	120.83	50.79	31.85	13.75	29.03	268	73	P	V
	*	5745	107.13	-	-	90.41	31.97	13.77	29.02	268	73	P	V
	*	5745	99.93	-	-	83.21	31.97	13.77	29.02	268	73	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5644.8	55.62	-12.58	68.2	39.38	31.61	13.68	29.05	107	202	P	H
		5698.2	56.39	-47.48	103.87	39.99	31.7	13.73	29.03	107	202	P	H
		5701	56.41	-49.07	105.48	40	31.71	13.73	29.03	107	202	P	H
		5724.2	55.98	-64.4	120.38	39.41	31.85	13.75	29.03	107	202	P	H
	*	5785	111.51	-	-	94.71	32	13.81	29.01	107	202	P	H
	*	5785	104.13	-	-	87.33	32	13.81	29.01	107	202	A	H
		5850.8	56.22	-64.16	120.38	39.31	32.1	13.81	29	107	202	P	H
		5859	56.07	-53.61	109.68	39.13	32.12	13.81	28.99	107	202	P	H
		5892.2	56.33	-36.11	92.44	39.33	32.18	13.81	28.99	107	202	P	H
		5932.6	57.85	-10.35	68.2	40.75	32.27	13.81	28.98	107	202	P	H
		5607	55.88	-12.32	68.2	39.59	31.69	13.65	29.05	242	74	P	V
		5693.8	54.79	-45.84	100.63	38.41	31.69	13.72	29.03	242	74	P	V
		5718.4	55.42	-54.93	110.35	38.89	31.81	13.75	29.03	242	74	P	V
		5722.2	56.26	-59.56	115.82	39.71	31.83	13.75	29.03	242	74	P	V
	*	5785	107.67	-	-	90.87	32	13.81	29.01	242	74	P	V
	*	5785	100.11	-	-	83.31	32	13.81	29.01	242	74	A	V
		5852.8	53.86	-61.96	115.82	36.94	32.11	13.81	29	242	74	P	V
		5874.4	54.96	-50.41	105.37	37.99	32.15	13.81	28.99	242	74	P	V
		5899.2	55.26	-31.99	87.25	38.23	32.2	13.81	28.98	242	74	P	V
		5947.2	54.93	-13.27	68.2	37.8	32.29	13.81	28.97	242	74	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	111.21	-	-	94.34	32.05	13.82	29	100	202	P	H
	*	5825	103.88	-	-	87.01	32.05	13.82	29	100	202	A	H
		5850.2	67.16	-54.58	121.74	50.25	32.1	13.81	29	100	202	P	H
		5856.6	64.55	-45.8	110.35	47.62	32.11	13.81	28.99	100	202	P	H
		5883.8	56.73	-41.94	98.67	39.74	32.17	13.81	28.99	100	202	P	H
		5937.2	55.19	-13.01	68.2	38.09	32.27	13.81	28.98	100	202	P	H
	*	5825	107.63	-	-	90.76	32.05	13.82	29	247	78	P	V
	*	5825	100.07	-	-	83.2	32.05	13.82	29	247	78	A	V
		5850	63.48	-58.72	122.2	46.57	32.1	13.81	29	247	78	P	V
		5857	59.27	-50.97	110.24	42.34	32.11	13.81	28.99	247	78	P	V
		5910	55.74	-23.53	79.27	38.69	32.22	13.81	28.98	247	78	P	V
		5926	57.23	-10.97	68.2	40.15	32.25	13.81	28.98	247	78	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	49.34	-24.66	74	50.53	39.91	20.11	61.21	100	0	P	H
		17235	50.99	-17.21	68.2	44.42	40.9	25.16	59.49	100	0	P	H
		17978	60.6	-13.4	74	43.11	48.84	25.44	56.79	100	0	P	H
		17978	49.11	-4.89	54	31.62	48.84	25.44	56.79	100	0	A	H
		11490	48.9	-25.1	74	50.09	39.91	20.11	61.21	100	0	P	V
		17235	49.71	-18.49	68.2	43.14	40.9	25.16	59.49	100	0	P	V
		17978	60.15	-13.85	74	42.66	48.84	25.44	56.79	100	0	P	V
		17978	49.03	-4.97	54	31.54	48.84	25.44	56.79	100	0	A	V
802.11a CH 157 5785MHz		11570	47.65	-26.35	74	48.92	39.76	20.18	61.21	100	0	P	H
		17355	50.37	-17.83	68.2	42.7	41.6	25.21	59.14	100	0	P	H
		17967	59.14	-14.86	74	41.92	48.61	25.44	56.83	100	0	P	H
		17967	48.73	-5.27	54	31.51	48.61	25.44	56.83	100	0	A	H
		11570	47.77	-26.23	74	49.04	39.76	20.18	61.21	100	0	P	V
		17355	49.87	-18.33	68.2	42.2	41.6	25.21	59.14	100	0	P	V
		17967	58.44	-15.56	74	41.22	48.61	25.44	56.83	100	0	P	V
		17967	48.14	-5.86	54	30.92	48.61	25.44	56.83	100	0	A	V
802.11a CH 165 5825MHz		11650	47.45	-26.55	74	48.9	39.55	20.23	61.23	100	0	P	H
		17475	51.19	-17.01	68.2	42.27	42.45	25.25	58.78	100	0	P	H
		17978	60.74	-13.26	74	43.25	48.84	25.44	56.79	100	0	P	H
		17978	48.97	-5.03	54	31.48	48.84	25.44	56.79	100	0	A	H
		11650	47.54	-26.46	74	48.99	39.55	20.23	61.23	100	0	P	V
		17475	51.51	-16.69	68.2	42.59	42.45	25.25	58.78	100	0	P	V
		17934	59.29	-14.71	74	42.91	47.91	25.43	56.96	100	0	P	V
		17934	48	-6	54	31.62	47.91	25.43	56.96	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5625.4	55.26	-12.94	68.2	39	31.65	13.66	29.05	100	202	P	H
		5674	57.34	-28.66	86	41.02	31.65	13.71	29.04	100	202	P	H
		5719.2	69.65	-40.93	110.58	53.11	31.82	13.75	29.03	100	202	P	H
		5725	71.78	-50.42	122.2	55.21	31.85	13.75	29.03	100	202	P	H
	*	5745	110.83	-	-	94.11	31.97	13.77	29.02	100	202	P	H
	*	5745	103.22	-	-	86.5	31.97	13.77	29.02	100	202	A	H
		5640.4	54.64	-13.56	68.2	38.39	31.62	13.68	29.05	253	73	P	V
		5687.8	55.64	-40.56	96.2	39.27	31.68	13.72	29.03	253	73	P	V
		5719.6	63.87	-46.82	110.69	47.33	31.82	13.75	29.03	253	73	P	V
		5724.8	68.31	-53.43	121.74	51.74	31.85	13.75	29.03	253	73	P	V
	*	5745	106.08	-	-	89.36	31.97	13.77	29.02	253	73	P	V
	*	5745	98.29	-	-	81.57	31.97	13.77	29.02	253	73	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5629.4	55.07	-13.13	68.2	38.81	31.64	13.67	29.05	106	203	P	H
		5697.8	56.23	-47.35	103.58	39.83	31.7	13.73	29.03	106	203	P	H
		5709.6	56.77	-51.12	107.89	40.3	31.76	13.74	29.03	106	203	P	H
		5723.6	55.73	-63.28	119.01	39.17	31.84	13.75	29.03	106	203	P	H
	*	5785	111.08	-	-	94.28	32	13.81	29.01	106	203	P	H
	*	5785	103.31	-	-	86.51	32	13.81	29.01	106	203	A	H
		5855	56.16	-54.64	110.8	39.23	32.11	13.81	28.99	106	203	P	H
		5873.8	56.66	-48.88	105.54	39.69	32.15	13.81	28.99	106	203	P	H
		5887	56.1	-40.19	96.29	39.11	32.17	13.81	28.99	106	203	P	H
		5926.8	55.72	-12.48	68.2	38.64	32.25	13.81	28.98	106	203	P	H
		5634.8	54.52	-13.68	68.2	38.27	31.63	13.67	29.05	241	75	P	V
		5687	54.81	-40.8	95.61	38.46	31.67	13.72	29.04	241	75	P	V
		5717	56.36	-53.6	109.96	39.84	31.8	13.75	29.03	241	75	P	V
		5723.4	54.08	-64.47	118.55	37.52	31.84	13.75	29.03	241	75	P	V
	*	5785	106.62	-	-	89.82	32	13.81	29.01	241	75	P	V
	*	5785	99.22	-	-	82.42	32	13.81	29.01	241	75	A	V
		5853	54.18	-61.18	115.36	37.26	32.11	13.81	29	241	75	P	V
		5874.6	55.8	-49.51	105.31	38.83	32.15	13.81	28.99	241	75	P	V
		5883.8	55.77	-42.9	98.67	38.78	32.17	13.81	28.99	241	75	P	V
		5930.8	54.85	-13.35	68.2	37.76	32.26	13.81	28.98	241	75	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	110.5	-	-	93.63	32.05	13.82	29	100	202	P	H
	*	5825	102.42	-	-	85.55	32.05	13.82	29	100	202	A	H
		5850.8	68.17	-52.21	120.38	51.26	32.1	13.81	29	100	202	P	H
		5857.2	61.11	-49.07	110.18	44.18	32.11	13.81	28.99	100	202	P	H
		5894.6	56.58	-34.08	90.66	39.57	32.19	13.81	28.99	100	202	P	H
		5933	56.36	-11.84	68.2	39.26	32.27	13.81	28.98	100	202	P	H
	*	5825	106.44	-	-	89.57	32.05	13.82	29	249	77	P	V
	*	5825	98.77	-	-	81.9	32.05	13.82	29	249	77	A	V
		5850.4	63.07	-58.22	121.29	46.16	32.1	13.81	29	249	77	P	V
		5856.8	59.41	-50.89	110.3	42.48	32.11	13.81	28.99	249	77	P	V
		5899.6	55.18	-31.78	86.96	38.15	32.2	13.81	28.98	249	77	P	V
		5928.6	55.11	-13.09	68.2	38.02	32.26	13.81	28.98	249	77	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	49.12	-24.88	74	50.31	39.91	20.11	61.21	100	0	P	H
		17235	50.07	-18.13	68.2	43.5	40.9	25.16	59.49	100	0	P	H
		17890	56.14	-17.86	74	40.86	47.01	25.41	57.14	100	0	P	H
		17890	43.92	-10.08	54	28.64	47.01	25.41	57.14	100	0	A	H
		11490	48.83	-25.17	74	50.02	39.91	20.11	61.21	100	0	P	V
		17235	49.21	-18.99	68.2	42.64	40.9	25.16	59.49	100	0	P	V
		17857	55.44	-18.56	74	40.94	46.38	25.39	57.27	100	0	P	V
		17857	43.31	-10.69	54	28.81	46.38	25.39	57.27	100	0	A	V
802.11n HT20 CH 157 5785MHz		11570	48.67	-25.33	74	49.94	39.76	20.18	61.21	100	0	P	H
		17355	51.01	-17.19	68.2	43.34	41.6	25.21	59.14	100	0	P	H
		17824	55.37	-18.63	74	41.63	45.76	25.38	57.4	100	0	P	H
		17824	42.98	-11.02	54	29.24	45.76	25.38	57.4	100	0	A	H
		11570	48.56	-25.44	74	49.83	39.76	20.18	61.21	100	0	P	V
		17355	50.92	-17.28	68.2	43.25	41.6	25.21	59.14	100	0	P	V
		17714	54.05	-19.95	74	42.11	44.44	25.34	57.84	100	0	P	V
		17714	42.08	-11.92	54	30.14	44.44	25.34	57.84	100	0	A	V
802.11n HT20 CH 165 5825MHz		11650	48.03	-25.97	74	49.48	39.55	20.23	61.23	100	0	P	H
		17475	51.1	-17.1	68.2	42.18	42.45	25.25	58.78	100	0	P	H
		17915	56.53	-17.47	74	40.64	47.51	25.42	57.04	100	0	P	H
		17915	46.2	-7.8	54	30.31	47.51	25.42	57.04	100	0	A	H
		11650	47.82	-26.18	74	49.27	39.55	20.23	61.23	100	0	P	V
		17475	52.59	-15.61	68.2	43.67	42.45	25.25	58.78	100	0	P	V
		17932	56.63	-17.37	74	40.3	47.87	25.43	56.97	100	0	P	V
		17932	46.75	-7.25	54	30.42	47.87	25.43	56.97	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5638.2	55.82	-12.38	68.2	39.58	31.62	13.67	29.05	101	202	P	H
		5694	61.65	-39.13	100.78	45.27	31.69	13.72	29.03	101	202	P	H
		5719	70.55	-39.97	110.52	54.02	31.81	13.75	29.03	101	202	P	H
		5724.4	72.33	-48.5	120.83	55.76	31.85	13.75	29.03	101	202	P	H
	*	5755	107.75	-	-	90.99	32	13.78	29.02	101	202	P	H
	*	5755	100.06	-	-	83.3	32	13.78	29.02	101	202	A	H
		5853.8	55.74	-57.8	113.54	38.82	32.11	13.81	29	101	202	P	H
		5855	55.3	-55.5	110.8	38.37	32.11	13.81	28.99	101	202	P	H
		5890.2	56.29	-37.63	93.92	39.29	32.18	13.81	28.99	101	202	P	H
		5925.4	55.51	-12.69	68.2	38.43	32.25	13.81	28.98	101	202	P	H
		5623.2	55.58	-12.62	68.2	39.32	31.65	13.66	29.05	261	73	P	V
		5687.6	58.64	-37.41	96.05	42.27	31.68	13.72	29.03	261	73	P	V
		5718.6	65.37	-45.04	110.41	48.84	31.81	13.75	29.03	261	73	P	V
		5723.2	67.07	-51.03	118.1	50.51	31.84	13.75	29.03	261	73	P	V
	*	5755	103.38	-	-	86.62	32	13.78	29.02	261	73	P	V
	*	5755	95.49	-	-	78.73	32	13.78	29.02	261	73	A	V
		5853.6	55.51	-58.48	113.99	38.59	32.11	13.81	29	261	73	P	V
		5868.4	55.09	-51.96	107.05	38.13	32.14	13.81	28.99	261	73	P	V
		5915.4	55.91	-19.37	75.28	38.85	32.23	13.81	28.98	261	73	P	V
		5944.8	54.49	-13.71	68.2	37.36	32.29	13.81	28.97	261	73	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5640	55.39	-12.81	68.2	39.14	31.62	13.68	29.05	110	202	P	H
		5698.2	57.09	-46.78	103.87	40.69	31.7	13.73	29.03	110	202	P	H
		5719.4	61.86	-48.77	110.63	45.32	31.82	13.75	29.03	110	202	P	H
		5723.4	60.25	-58.3	118.55	43.69	31.84	13.75	29.03	110	202	P	H
	*	5795	108.02	-	-	91.21	32	13.82	29.01	110	202	P	H
	*	5795	100.33	-	-	83.52	32	13.82	29.01	110	202	A	H
		5851.4	62.77	-56.24	119.01	45.86	32.1	13.81	29	110	202	P	H
		5855.4	60.47	-50.22	110.69	43.54	32.11	13.81	28.99	110	202	P	H
		5885.8	57.4	-39.78	97.18	40.41	32.17	13.81	28.99	110	202	P	H
		5936.8	56.33	-11.87	68.2	39.23	32.27	13.81	28.98	110	202	P	H
		5641.4	54.59	-13.61	68.2	38.34	31.62	13.68	29.05	253	76	P	V
		5683.6	54.84	-38.26	93.1	38.49	31.67	13.72	29.04	253	76	P	V
		5719.8	56.75	-53.99	110.74	40.21	31.82	13.75	29.03	253	76	P	V
		5720	54.91	-55.89	110.8	38.37	31.82	13.75	29.03	253	76	P	V
	*	5795	103.34	-	-	86.53	32	13.82	29.01	253	76	P	V
	*	5795	95.96	-	-	79.15	32	13.82	29.01	253	76	A	V
		5850.8	58.78	-61.6	120.38	41.87	32.1	13.81	29	253	76	P	V
		5863.8	56.91	-51.42	108.33	39.96	32.13	13.81	28.99	253	76	P	V
		5906.8	55.84	-25.79	81.63	38.8	32.21	13.81	28.98	253	76	P	V
		5945.2	54.42	-13.78	68.2	37.29	32.29	13.81	28.97	253	76	P	V
		5641.4	54.59	-13.61	68.2	38.34	31.62	13.68	29.05	253	76	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	49.07	-24.93	74	50.26	39.88	20.13	61.2	100	0	P	H
		17265	50.29	-17.91	68.2	43.54	40.99	25.17	59.41	100	0	P	H
		17989	57.65	-16.35	74	39.87	49.07	25.45	56.74	100	0	P	H
		17989	48.64	-5.36	54	30.86	49.07	25.45	56.74	100	0	A	H
		11510	48.09	-25.91	74	49.28	39.88	20.13	61.2	100	0	P	V
		17265	49.44	-18.76	68.2	42.69	40.99	25.17	59.41	100	0	P	V
		17956	57.1	-16.9	74	40.16	48.38	25.44	56.88	100	0	P	V
		17956	47.08	-6.92	54	30.14	48.38	25.44	56.88	100	0	A	V
802.11n HT40 CH 159 5795MHz		11590	47.95	-26.05	74	49.26	39.72	20.19	61.22	100	0	P	H
		17385	50.48	-17.72	68.2	42.45	41.86	25.22	59.05	100	0	P	H
		17813	55.2	-18.8	74	41.72	45.55	25.38	57.45	100	0	P	H
		17813	42.97	-11.03	54	29.49	45.55	25.38	57.45	100	0	A	H
		11590	48.17	-25.83	74	49.48	39.72	20.19	61.22	100	0	P	V
		17385	51.71	-16.49	68.2	43.68	41.86	25.22	59.05	100	0	P	V
		17813	55.38	-18.62	74	41.9	45.55	25.38	57.45	100	0	P	V
		17813	43	-11	54	29.52	45.55	25.38	57.45	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5646.8	57.92	-10.28	68.2	41.67	31.61	13.68	29.04	100	203	P	H
		5696.6	69.45	-33.24	102.69	53.06	31.69	13.73	29.03	100	203	P	H
		5719	74.87	-35.65	110.52	58.34	31.81	13.75	29.03	100	203	P	H
		5722.6	73.49	-43.24	116.73	56.93	31.84	13.75	29.03	100	203	P	H
	*	5775	102.29	-	-	85.5	32	13.8	29.01	100	203	P	H
	*	5775	94.77	-	-	77.98	32	13.8	29.01	100	203	A	H
		5850	63.97	-58.23	122.2	47.06	32.1	13.81	29	100	203	P	H
		5858.6	64.01	-45.78	109.79	47.07	32.12	13.81	28.99	100	203	P	H
		5878.6	59.88	-42.65	102.53	42.9	32.16	13.81	28.99	100	203	P	H
		5937.2	56.07	-12.13	68.2	38.97	32.27	13.81	28.98	100	203	P	H
		5643.8	55.25	-12.95	68.2	39.01	31.61	13.68	29.05	242	74	P	V
		5696.8	62.12	-40.72	102.84	45.73	31.69	13.73	29.03	242	74	P	V
		5719.6	67.13	-43.56	110.69	50.59	31.82	13.75	29.03	242	74	P	V
		5722.6	67.62	-49.11	116.73	51.06	31.84	13.75	29.03	242	74	P	V
	*	5775	98.84	-	-	82.05	32	13.8	29.01	242	74	P	V
	*	5775	90.7	-	-	73.91	32	13.8	29.01	242	74	A	V
		5852.4	59.66	-57.07	116.73	42.75	32.1	13.81	29	242	74	P	V
		5859.4	60.27	-49.3	109.57	43.33	32.12	13.81	28.99	242	74	P	V
		5885.6	55.8	-41.53	97.33	38.81	32.17	13.81	28.99	242	74	P	V
		5943.4	55.65	-12.55	68.2	38.52	32.29	13.81	28.97	242	74	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	48.69	-25.31	74	49.94	39.8	20.16	61.21	100	0	P	H
		17325	50.16	-18.04	68.2	42.87	41.32	25.2	59.23	100	0	P	H
		17978	58.11	-15.89	74	40.62	48.84	25.44	56.79	100	0	P	H
		17978	47.54	-6.46	54	30.05	48.84	25.44	56.79	100	0	A	H
		11550	48.83	-25.17	74	50.08	39.8	20.16	61.21	100	0	P	V
		17325	50.81	-17.39	68.2	43.52	41.32	25.2	59.23	100	0	P	V
		17978	57.64	-16.36	74	40.15	48.84	25.44	56.79	100	0	P	V
		17978	46.91	-7.09	54	29.42	48.84	25.44	56.79	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Emission above 18GHz****5GHz WIFI 802.11ac VHT80 (SHF)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz		22444	39.87	-34.13	74	42.46	38.61	12.29	53.49	150	0	P	H
802.11ac		38020	47.52	-20.68	68.2	41.8	43.14	18.58	56	150	0	P	H
VHT80		19232	38.29	-35.71	74	43.64	37.91	11	54.26	150	0	P	V
SHF		37470	46.69	-21.51	68.2	41.86	42.71	18.75	56.63	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 LF		96.93	31.44	-12.06	43.5	46.75	15.8	1.51	32.62	100	0	P	H
		148.34	31.04	-12.46	43.5	44.49	17.35	1.95	32.75	-	-	P	H
		197.81	26.41	-17.09	43.5	41.87	15.13	2.31	32.9	-	-	P	H
		257.95	28.66	-17.34	46	39.32	19.33	2.71	32.7	-	-	P	H
		348.16	24.58	-21.42	46	33.81	20.08	3.15	32.46	-	-	P	H
		786.6	31.6	-14.4	46	31.81	27.71	4.88	32.8	-	-	P	H
		49.4	26.96	-13.04	40	43.85	15	0.96	32.85	-	-	P	V
		93.05	30.49	-13.01	43.5	46.29	15.36	1.47	32.63	100	0	P	V
		148.34	26.06	-17.44	43.5	39.51	17.35	1.95	32.75	-	-	P	V
		184.23	25.2	-18.3	43.5	40.78	15.06	2.22	32.86	-	-	P	V
		301.6	21.62	-24.38	46	32.13	19.12	2.92	32.55	-	-	P	V
		639.16	29.01	-16.99	46	31.15	26.08	4.34	32.56	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5602.8	55.21	-12.99	68.2	38.94	31.69	13.64	29.06	288	67	P	H
		5687.4	55.68	-40.23	95.91	39.33	31.67	13.72	29.04	288	67	P	H
		5718	60.49	-49.75	110.24	43.96	31.81	13.75	29.03	288	67	P	H
		5724.4	69.87	-50.96	120.83	53.3	31.85	13.75	29.03	288	67	P	H
	*	5745	105.79	-	-	89.07	31.97	13.77	29.02	288	67	P	H
	*	5745	98.6	-	-	81.88	31.97	13.77	29.02	288	67	A	H
		5612.6	55.06	-13.14	68.2	38.79	31.67	13.65	29.05	112	348	P	V
		5692.8	56.26	-43.63	99.89	39.88	31.69	13.72	29.03	112	348	P	V
		5718	62.34	-47.9	110.24	45.81	31.81	13.75	29.03	112	348	P	V
		5724.8	68.92	-52.82	121.74	52.35	31.85	13.75	29.03	112	348	P	V
	*	5745	107.92	-	-	91.2	31.97	13.77	29.02	112	348	P	V
	*	5745	100.77	-	-	84.05	31.97	13.77	29.02	112	348	A	V



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 157 5785MHz		5600	55.78	-12.42	68.2	39.5	31.7	13.64	29.06	235	64	P	H
		5689	55.3	-41.79	97.09	38.93	31.68	13.72	29.03	235	64	P	H
		5716	56.35	-53.33	109.68	39.84	31.8	13.74	29.03	235	64	P	H
		5721.8	55.38	-59.52	114.9	38.83	31.83	13.75	29.03	235	64	P	H
	*	5785	107.17	-	-	90.37	32	13.81	29.01	235	64	P	H
	*	5785	99.84	-	-	83.04	32	13.81	29.01	235	64	A	H
		5851.4	55.13	-63.88	119.01	38.22	32.1	13.81	29	235	64	P	H
		5857.8	56.46	-53.55	110.01	39.52	32.12	13.81	28.99	235	64	P	H
		5923.2	57	-12.53	69.53	39.92	32.25	13.81	28.98	235	64	P	H
		5942.8	54.41	-13.79	68.2	37.28	32.29	13.81	28.97	235	64	P	H
		5619.2	54.65	-13.55	68.2	38.38	31.66	13.66	29.05	116	348	P	V
		5661	55.51	-20.86	76.37	39.24	31.62	13.69	29.04	116	348	P	V
		5719.4	55.9	-54.73	110.63	39.36	31.82	13.75	29.03	116	348	P	V
		5743	57.1	-77.1	134.2	40.39	31.96	13.77	29.02	116	348	P	V
	*	5785	108.36	-	-	91.56	32	13.81	29.01	116	348	P	V
	*	5785	101	-	-	84.2	32	13.81	29.01	116	348	A	V
		5850.2	54.88	-66.86	121.74	37.97	32.1	13.81	29	116	348	P	V
		5868.8	56.62	-50.31	106.93	39.66	32.14	13.81	28.99	116	348	P	V
		5877.6	55.6	-47.67	103.27	38.62	32.16	13.81	28.99	116	348	P	V
		5933.6	55.53	-12.67	68.2	38.43	32.27	13.81	28.98	116	348	P	V



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 165 5825MHz	*	5825	107.31	-	-	90.44	32.05	13.82	29	250	63	P	H
	*	5825	99.55	-	-	82.68	32.05	13.82	29	250	63	A	H
		5851.2	62.14	-57.32	119.46	45.23	32.1	13.81	29	250	63	P	H
		5856	58.88	-51.64	110.52	41.95	32.11	13.81	28.99	250	63	P	H
		5888.8	56.36	-38.6	94.96	39.36	32.18	13.81	28.99	250	63	P	H
		5933	55.82	-12.38	68.2	38.72	32.27	13.81	28.98	250	63	P	H
	*	5825	107.53	-	-	90.66	32.05	13.82	29	115	348	P	V
	*	5825	99.88	-	-	83.01	32.05	13.82	29	115	348	A	V
		5850.2	61.37	-60.37	121.74	44.46	32.1	13.81	29	115	348	P	V
		5855.4	59.06	-51.63	110.69	42.13	32.11	13.81	28.99	115	348	P	V
		5900.6	57.58	-28.64	86.22	40.55	32.2	13.81	28.98	115	348	P	V
		5934.4	55.16	-13.04	68.2	38.06	32.27	13.81	28.98	115	348	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 149 5745MHz		11490	47.89	-26.11	74	49.08	39.91	20.11	61.21	100	0	P	H
		17235	49.64	-18.56	68.2	43.07	40.9	25.16	59.49	100	0	P	H
		17989	57.87	-16.13	74	40.09	49.07	25.45	56.74	100	0	P	H
		17989	48.65	-5.35	54	30.87	49.07	25.45	56.74	100	0	A	H
		11490	48.12	-25.88	74	49.31	39.91	20.11	61.21	100	0	P	V
		17235	49.66	-18.54	68.2	43.09	40.9	25.16	59.49	100	0	P	V
		17989	58.2	-15.8	74	40.42	49.07	25.45	56.74	100	0	P	V
		17989	49.01	-4.99	54	31.23	49.07	25.45	56.74	100	0	A	V
802.11a CH 157 5785MHz		11570	47.18	-26.82	74	48.45	39.76	20.18	61.21	100	0	P	H
		17355	50.73	-17.47	68.2	43.06	41.6	25.21	59.14	100	0	P	H
		17989	58.45	-15.55	74	40.67	49.07	25.45	56.74	100	0	P	H
		17989	48.76	-5.24	54	30.98	49.07	25.45	56.74	100	0	A	H
		11570	48.55	-25.45	74	49.82	39.76	20.18	61.21	100	0	P	V
		17355	50.67	-17.53	68.2	43	41.6	25.21	59.14	100	0	P	V
		17989	58.55	-15.45	74	40.77	49.07	25.45	56.74	100	0	P	V
		17989	49.02	-4.98	54	31.24	49.07	25.45	56.74	100	0	A	V
802.11a CH 165 5825MHz		11650	48.12	-25.88	74	49.57	39.55	20.23	61.23	100	0	P	H
		17475	51.44	-16.76	68.2	42.52	42.45	25.25	58.78	100	0	P	H
		17923	58.79	-15.21	74	42.7	47.68	25.42	57.01	100	0	P	H
		17923	47.48	-6.52	54	31.39	47.68	25.42	57.01	100	0	A	H
		11650	47.43	-26.57	74	48.88	39.55	20.23	61.23	100	0	P	V
		17475	51.35	-16.85	68.2	42.43	42.45	25.25	58.78	100	0	P	V
		17989	60.57	-13.43	74	42.79	49.07	25.45	56.74	100	0	P	V
		17989	49.29	-4.71	54	31.51	49.07	25.45	56.74	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11n HT20 (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)
802.11n HT20 CH 149 5745MHz		5602.4	55.3	-12.9	68.2	39.02	31.7	13.64	29.06	248	67	P	H
		5677.4	55.22	-33.3	88.52	38.9	31.65	13.71	29.04	248	67	P	H
		5719.8	59.79	-50.95	110.74	43.25	31.82	13.75	29.03	248	67	P	H
		5724.6	63.65	-57.64	121.29	47.08	31.85	13.75	29.03	248	67	P	H
	*	5745	105.01	-	-	88.29	31.97	13.77	29.02	248	67	P	H
	*	5745	97.36	-	-	80.64	31.97	13.77	29.02	248	67	A	H
		5647.2	55.73	-12.47	68.2	39.48	31.61	13.68	29.04	115	350	P	V
		5656.8	55.82	-17.43	73.25	39.56	31.61	13.69	29.04	115	350	P	V
		5719.2	61.14	-49.44	110.58	44.6	31.82	13.75	29.03	115	350	P	V
		5725	67.14	-55.06	122.2	50.57	31.85	13.75	29.03	115	350	P	V
	*	5745	107.44	-	-	90.72	31.97	13.77	29.02	115	350	P	V
	*	5745	98.95	-	-	82.23	31.97	13.77	29.02	115	350	A	V



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)
802.11n HT20 CH 157 5785MHz		5611.4	56.18	-12.02	68.2	39.9	31.68	13.65	29.05	231	60	P	H
		5676	55.1	-32.38	87.48	38.78	31.65	13.71	29.04	231	60	P	H
		5700.8	55.58	-49.84	105.42	39.18	31.7	13.73	29.03	231	60	P	H
		5721.2	54.94	-58.6	113.54	38.39	31.83	13.75	29.03	231	60	P	H
	*	5785	106.12	-	-	89.32	32	13.81	29.01	231	60	P	H
	*	5785	98.65	-	-	81.85	32	13.81	29.01	231	60	A	H
		5854	56.2	-56.88	113.08	39.28	32.11	13.81	29	231	60	P	H
		5870.8	56.01	-50.36	106.37	39.05	32.14	13.81	28.99	231	60	P	H
		5907.8	57.34	-23.55	80.89	40.29	32.22	13.81	28.98	231	60	P	H
		5931.4	56.23	-11.97	68.2	39.14	32.26	13.81	28.98	231	60	P	H
		5636.6	54.64	-13.56	68.2	38.39	31.63	13.67	29.05	116	351	P	V
		5679	56.33	-33.37	89.7	40	31.66	13.71	29.04	116	351	P	V
		5709.2	55.68	-52.1	107.78	39.21	31.76	13.74	29.03	116	351	P	V
		5723.2	56.62	-61.48	118.1	40.06	31.84	13.75	29.03	116	351	P	V
	*	5785	106.83	-	-	90.03	32	13.81	29.01	116	351	P	V
	*	5785	99.51	-	-	82.71	32	13.81	29.01	116	351	A	V
		5853	54.26	-61.1	115.36	37.34	32.11	13.81	29	116	351	P	V
		5864.6	55.27	-52.84	108.11	38.32	32.13	13.81	28.99	116	351	P	V
		5919	56.29	-16.33	72.62	39.22	32.24	13.81	28.98	116	351	P	V
		5942.4	55.34	-12.86	68.2	38.22	32.28	13.81	28.97	116	351	P	V



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)
802.11n HT20 CH 165 5825MHz	*	5825	105.76	-	-	88.89	32.05	13.82	29	253	60	P	H
	*	5825	98.57	-	-	81.7	32.05	13.82	29	253	60	A	H
		5850.8	60.71	-59.67	120.38	43.8	32.1	13.81	29	253	60	P	H
		5855.6	56.27	-54.36	110.63	39.34	32.11	13.81	28.99	253	60	P	H
		5907.4	56.63	-24.56	81.19	39.59	32.21	13.81	28.98	253	60	P	H
		5926.6	55.81	-12.39	68.2	38.73	32.25	13.81	28.98	253	60	P	H
	*	5825	106.41	-	-	89.54	32.05	13.82	29	107	348	P	V
	*	5825	99.13	-	-	82.26	32.05	13.82	29	107	348	A	V
		5851.4	60.12	-58.89	119.01	43.21	32.1	13.81	29	107	348	P	V
		5857	58.32	-51.92	110.24	41.39	32.11	13.81	28.99	107	348	P	V
		5921.8	56.8	-13.76	70.56	39.73	32.24	13.81	28.98	107	348	P	V
		5930.2	57.95	-10.25	68.2	40.86	32.26	13.81	28.98	107	348	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT20 (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)
802.11n HT20 CH 149 5745MHz		11490	49.23	-24.77	74	50.42	39.91	20.11	61.21	100	0	P	H
		17235	50.5	-17.7	68.2	43.93	40.9	25.16	59.49	100	0	P	H
		17989	58.36	-15.64	74	40.58	49.07	25.45	56.74	100	0	P	H
		17989	48.98	-5.02	54	31.2	49.07	25.45	56.74	100	0	A	H
		11490	49.02	-24.98	74	50.21	39.91	20.11	61.21	100	0	P	V
		17235	50.85	-17.35	68.2	44.28	40.9	25.16	59.49	100	0	P	V
		17945	58.24	-15.76	74	41.58	48.15	25.43	56.92	100	0	P	V
		17945	47.53	-6.47	54	30.87	48.15	25.43	56.92	100	0	A	V
802.11n HT20 CH 157 5785MHz		11570	48.44	-25.56	74	49.71	39.76	20.18	61.21	100	0	P	H
		17355	50.28	-17.92	68.2	42.61	41.6	25.21	59.14	100	0	P	H
		17956	57.78	-16.22	74	40.84	48.38	25.44	56.88	100	0	P	H
		17956	48.08	-5.92	54	31.14	48.38	25.44	56.88	100	0	A	H
		11570	47.69	-26.31	74	48.96	39.76	20.18	61.21	100	0	P	V
		17355	50.13	-18.07	68.2	42.46	41.6	25.21	59.14	100	0	P	V
		17956	58.04	-15.96	74	41.1	48.38	25.44	56.88	100	0	P	V
		17956	47.99	-6.01	54	31.05	48.38	25.44	56.88	100	0	A	V
802.11n HT20 CH 165 5825MHz		11650	47.17	-26.83	74	48.62	39.55	20.23	61.23	100	0	P	H
		17475	51.14	-17.06	68.2	42.22	42.45	25.25	58.78	100	0	P	H
		17956	57.95	-16.05	74	41.01	48.38	25.44	56.88	100	0	P	H
		17956	47.62	-6.38	54	30.68	48.38	25.44	56.88	100	0	A	H
		11650	47.81	-26.19	74	49.26	39.55	20.23	61.23	100	0	P	V
		17475	51.68	-16.52	68.2	42.76	42.45	25.25	58.78	100	0	P	V
		17945	56.97	-17.03	74	40.31	48.15	25.43	56.92	100	0	P	V
		17945	48.2	-5.8	54	31.54	48.15	25.43	56.92	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (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)
802.11n HT40 CH 151 5755MHz		5636	55.77	-12.43	68.2	39.52	31.63	13.67	29.05	231	62	P	H
		5697.8	56.54	-47.04	103.58	40.14	31.7	13.73	29.03	231	62	P	H
		5719	63.74	-46.78	110.52	47.21	31.81	13.75	29.03	231	62	P	H
		5725	68.52	-53.68	122.2	51.95	31.85	13.75	29.03	231	62	P	H
	*	5755	103.34	-	-	86.58	32	13.78	29.02	231	62	P	H
	*	5755	95.08	-	-	78.32	32	13.78	29.02	231	62	A	H
		5850.6	54.53	-66.3	120.83	37.62	32.1	13.81	29	231	62	P	H
		5865.6	55.56	-52.27	107.83	38.61	32.13	13.81	28.99	231	62	P	H
		5917.2	56.12	-17.83	73.95	39.06	32.23	13.81	28.98	231	62	P	H
		5939.6	55.8	-12.4	68.2	38.68	32.28	13.81	28.97	231	62	P	H
		5648.2	55.94	-12.26	68.2	39.7	31.6	13.68	29.04	107	350	P	V
		5696	57.72	-44.53	102.25	41.33	31.69	13.73	29.03	107	350	P	V
		5718.6	66.09	-44.32	110.41	49.56	31.81	13.75	29.03	107	350	P	V
		5724.8	67.36	-54.38	121.74	50.79	31.85	13.75	29.03	107	350	P	V
	*	5755	104.66	-	-	87.9	32	13.78	29.02	107	350	P	V
	*	5755	96.46	-	-	79.7	32	13.78	29.02	107	350	A	V
		5851	55.29	-64.63	119.92	38.38	32.1	13.81	29	107	350	P	V
		5862.4	54.52	-54.21	108.73	37.58	32.12	13.81	28.99	107	350	P	V
		5921.2	55.36	-15.64	71	38.29	32.24	13.81	28.98	107	350	P	V
		5946	55.31	-12.89	68.2	38.18	32.29	13.81	28.97	107	350	P	V



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)
802.11n HT40 CH 159 5795MHz		5601.2	55.48	-12.72	68.2	39.2	31.7	13.64	29.06	243	64	P	H
		5680.4	55.01	-35.72	90.73	38.68	31.66	13.71	29.04	243	64	P	H
		5718.6	55.54	-54.87	110.41	39.01	31.81	13.75	29.03	243	64	P	H
		5722.8	54.73	-62.45	117.18	38.17	31.84	13.75	29.03	243	64	P	H
	*	5795	103.2	-	-	86.39	32	13.82	29.01	243	64	P	H
	*	5795	95.59	-	-	78.78	32	13.82	29.01	243	64	A	H
		5851	57.88	-62.04	119.92	40.97	32.1	13.81	29	243	64	P	H
		5855	55.7	-55.1	110.8	38.77	32.11	13.81	28.99	243	64	P	H
		5895.4	56.5	-33.57	90.07	39.49	32.19	13.81	28.99	243	64	P	H
		5944	56.3	-11.9	68.2	39.17	32.29	13.81	28.97	243	64	P	H
		5608	54.93	-13.27	68.2	38.65	31.68	13.65	29.05	115	349	P	V
		5672.2	55.55	-29.12	84.67	39.25	31.64	13.7	29.04	115	349	P	V
		5714.2	55.29	-53.89	109.18	38.79	31.79	13.74	29.03	115	349	P	V
		5724	55.63	-64.29	119.92	39.07	31.84	13.75	29.03	115	349	P	V
	*	5795	103.85	-	-	87.04	32	13.82	29.01	115	349	P	V
	*	5795	96.54	-	-	79.73	32	13.82	29.01	115	349	A	V
		5851.6	55.99	-62.56	118.55	39.08	32.1	13.81	29	115	349	P	V
		5866.8	55.14	-52.35	107.49	38.19	32.13	13.81	28.99	115	349	P	V
		5909.6	55.82	-23.74	79.56	38.77	32.22	13.81	28.98	115	349	P	V
		5941	55.98	-12.22	68.2	38.86	32.28	13.81	28.97	115	349	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT40 (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)
802.11n HT40 CH 151 5755MHz		11510	48.32	-25.68	74	49.51	39.88	20.13	61.2	100	0	P	H
		17265	49.74	-18.46	68.2	42.99	40.99	25.17	59.41	100	0	P	H
		17923	57.75	-16.25	74	41.66	47.68	25.42	57.01	100	0	P	H
		17923	46.85	-7.15	54	30.76	47.68	25.42	57.01	100	0	A	H
		11510	48.4	-25.6	74	49.59	39.88	20.13	61.2	100	0	P	V
		17265	49.95	-18.25	68.2	43.2	40.99	25.17	59.41	100	0	P	V
		17912	57.68	-16.32	74	41.86	47.45	25.42	57.05	100	0	P	V
		17912	47.09	-6.91	54	31.27	47.45	25.42	57.05	100	0	A	V
802.11n HT40 CH 159 5795MHz		11590	47.18	-26.82	74	48.49	39.72	20.19	61.22	100	0	P	H
		17385	50.97	-17.23	68.2	42.94	41.86	25.22	59.05	100	0	P	H
		17956	57.97	-16.03	74	41.03	48.38	25.44	56.88	100	0	P	H
		17956	47.84	-6.16	54	30.9	48.38	25.44	56.88	100	0	A	H
		11590	46.96	-27.04	74	48.27	39.72	20.19	61.22	100	0	P	V
		17385	50.56	-17.64	68.2	42.53	41.86	25.22	59.05	100	0	P	V
		17978	57.78	-16.22	74	40.29	48.84	25.44	56.79	100	0	P	V
		17978	48.58	-5.42	54	31.09	48.84	25.44	56.79	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 155 5775MHz		5624.2	55.73	-12.47	68.2	39.47	31.65	13.66	29.05	246	66	P	H
		5696.4	59.17	-43.38	102.55	42.78	31.69	13.73	29.03	246	66	P	H
		5712.2	60.86	-47.76	108.62	44.38	31.77	13.74	29.03	246	66	P	H
		5724	63.68	-56.24	119.92	47.12	31.84	13.75	29.03	246	66	P	H
	*	5775	99.17	-	-	82.38	32	13.8	29.01	246	66	P	H
	*	5775	90.33	-	-	73.54	32	13.8	29.01	246	66	A	H
		5850.2	60.61	-61.13	121.74	43.7	32.1	13.81	29	246	66	P	H
		5856	58.89	-51.63	110.52	41.96	32.11	13.81	28.99	246	66	P	H
		5879	56.9	-45.33	102.23	39.92	32.16	13.81	28.99	246	66	P	H
		5933.2	55.14	-13.06	68.2	38.04	32.27	13.81	28.98	246	66	P	H
		5648	54.95	-13.25	68.2	38.71	31.6	13.68	29.04	122	349	P	V
		5699.2	61.96	-42.65	104.61	45.56	31.7	13.73	29.03	122	349	P	V
		5714.4	64.3	-44.93	109.23	47.8	31.79	13.74	29.03	122	349	P	V
		5722.4	64.35	-51.92	116.27	47.8	31.83	13.75	29.03	122	349	P	V
	*	5775	99.39	-	-	82.6	32	13.8	29.01	122	349	P	V
	*	5775	91.94	-	-	75.15	32	13.8	29.01	122	349	A	V
		5850.8	58.33	-62.05	120.38	41.42	32.1	13.81	29	122	349	P	V
		5857	59.44	-50.8	110.24	42.51	32.11	13.81	28.99	122	349	P	V
		5875.8	55.97	-48.64	104.61	39	32.15	13.81	28.99	122	349	P	V
		5940.8	55.06	-13.14	68.2	37.94	32.28	13.81	28.97	122	349	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 155 5775MHz		11550	48.01	-25.99	74	49.26	39.8	20.16	61.21	100	0	P	H
		17325	49.75	-18.45	68.2	42.46	41.32	25.2	59.23	100	0	P	H
		17989	58.55	-15.45	74	40.77	49.07	25.45	56.74	100	0	P	H
		17989	48.88	-5.12	54	31.1	49.07	25.45	56.74	100	0	A	H
		11550	47.94	-26.06	74	49.19	39.8	20.16	61.21	100	0	P	V
		17325	49.69	-18.51	68.2	42.4	41.32	25.2	59.23	100	0	P	V
		17967	58.24	-15.76	74	41.02	48.61	25.44	56.83	100	0	P	V
		17967	47.79	-6.21	54	30.57	48.61	25.44	56.83	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Emission above 1GHz****WIFI 802.11n HT20 (SHF @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 SHF		20464	38.08	-35.92	74	42.39	37.99	11.22	53.52	150	P	P	H
		33312	44.02	-24.18	68.2	39.61	40.84	17.79	54.22	150	P	P	H
		26558	42.64	-25.56	68.2	40.93	40.1	14.61	53	150	P	P	V
		35644	43.64	-24.56	68.2	38.81	42.39	18.6	56.16	150	P	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		95.96	31.13	-12.37	43.5	46.61	15.64	1.5	32.62	100	0	P	H
		143.49	30.69	-12.81	43.5	43.95	17.56	1.91	32.73	-	-	P	H
		197.81	26.48	-17.02	43.5	41.94	15.13	2.31	32.9	-	-	P	H
		272.5	28.32	-17.68	46	39.52	18.67	2.78	32.65	-	-	P	H
		353.98	25.45	-20.55	46	34.43	20.29	3.18	32.45	-	-	P	H
		740.04	31.02	-14.98	46	31.32	27.6	4.68	32.58	-	-	P	H
		49.4	27.46	-12.54	40	44.35	15	0.96	32.85	100	0	P	V
		93.05	30.65	-12.85	43.5	46.45	15.36	1.47	32.63	-	-	P	V
		153.19	25.47	-18.03	43.5	39.16	17.09	1.98	32.76	-	-	P	V
		184.23	24.21	-19.29	43.5	39.79	15.06	2.22	32.86	-	-	P	V
		302.57	21.76	-24.24	46	32.26	19.13	2.92	32.55	-	-	P	V
		679.9	30.03	-15.97	46	31.81	26.17	4.5	32.45	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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



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

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

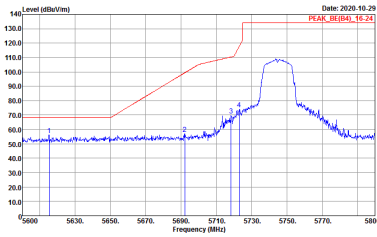
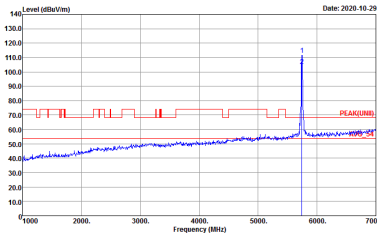
Test Engineer :	Andy Yang, Karl Hou and CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~65%

Note symbol

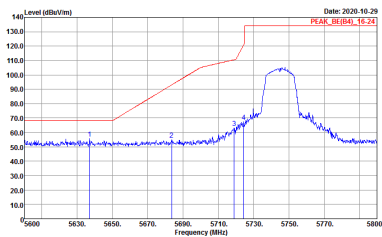
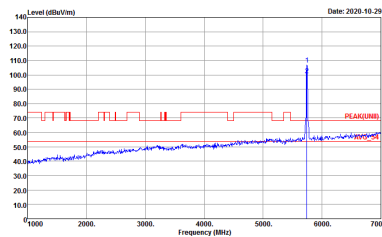
-L	Low channel location
-R	High channel location

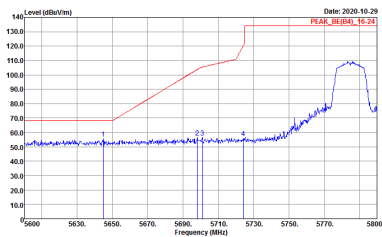
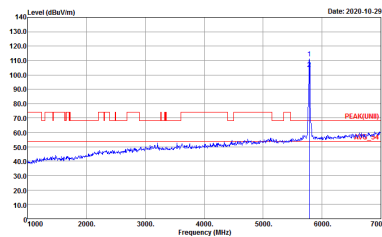
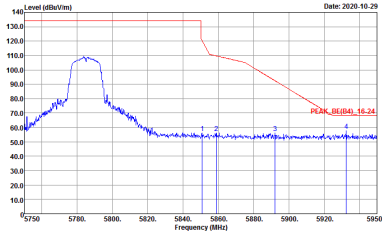


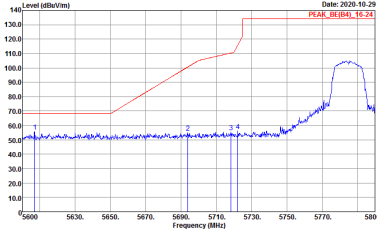
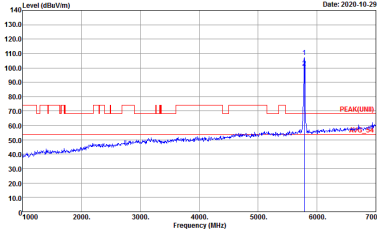
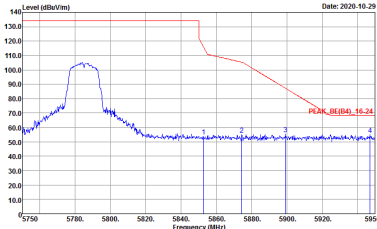
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_RE(B4)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(FUND)_3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01

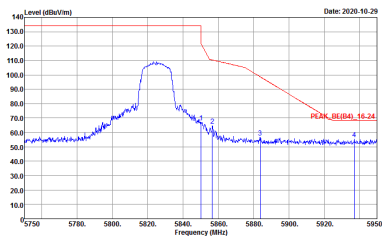
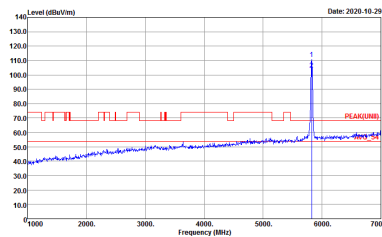


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01

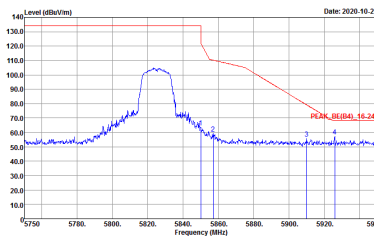
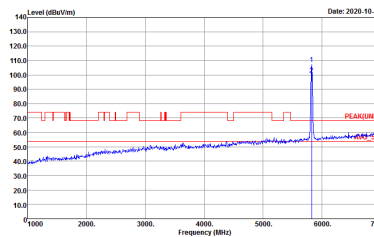
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	Left blank



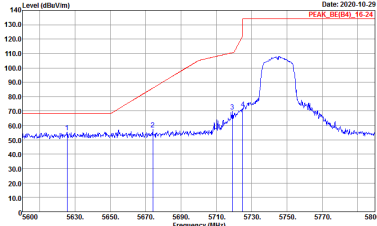
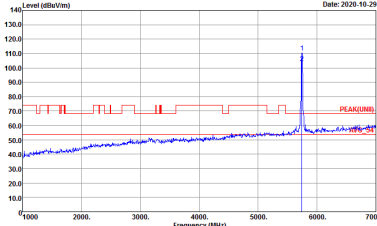
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH165-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH165-11Y Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01



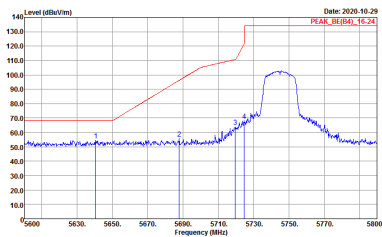
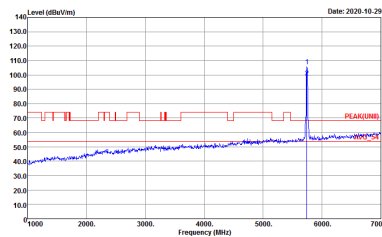
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH165-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH165-11Y Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01



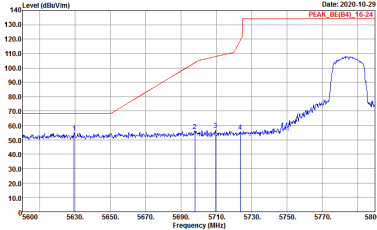
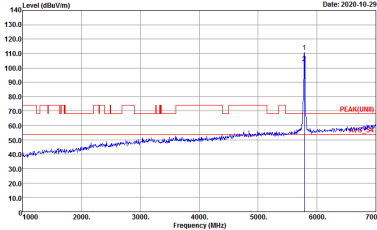
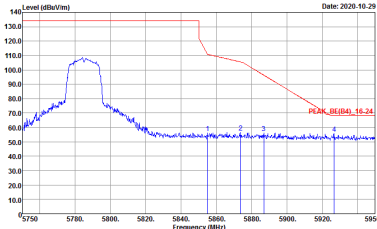
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

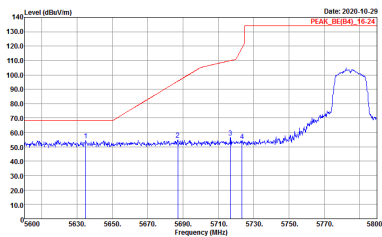
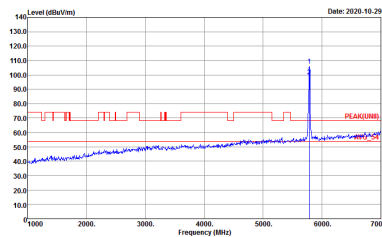
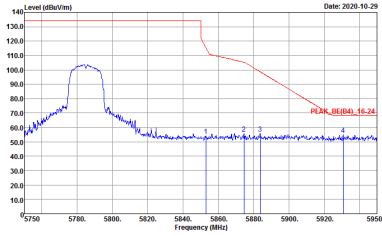
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01



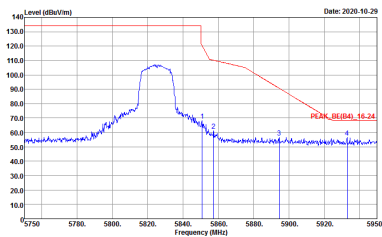
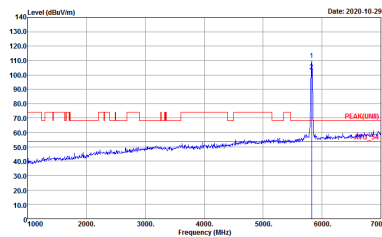
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01



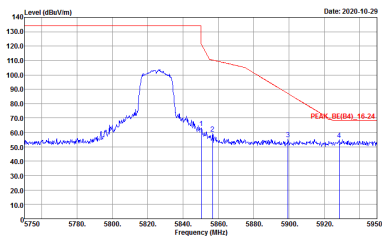
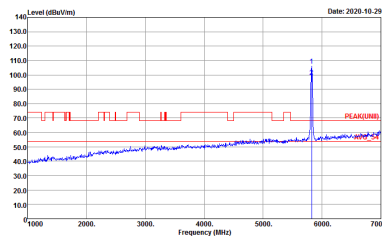
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	Left blank

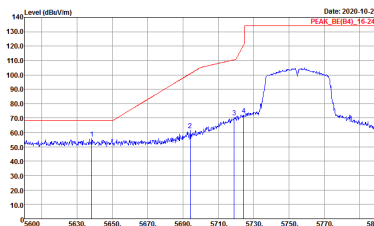
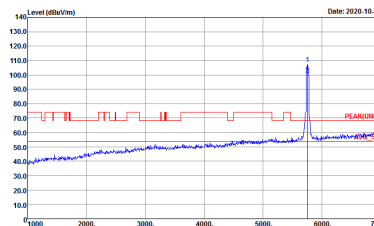
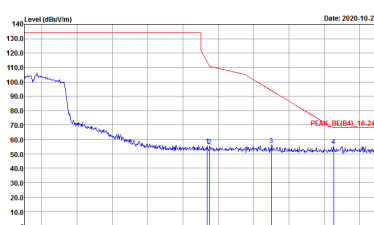


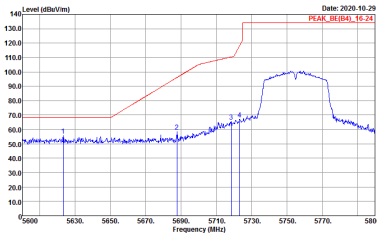
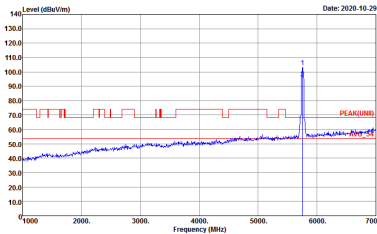
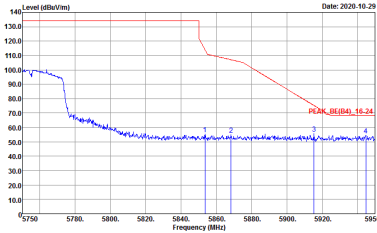
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-11Y Condition : PEAK_BUREAU_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK_BUREAU_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01

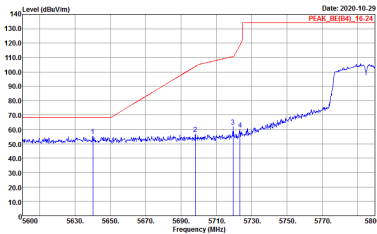
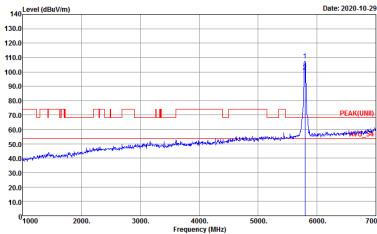
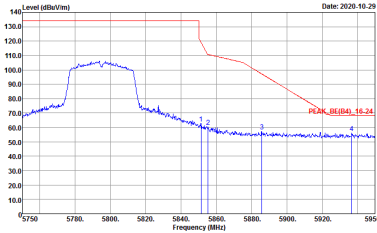


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01

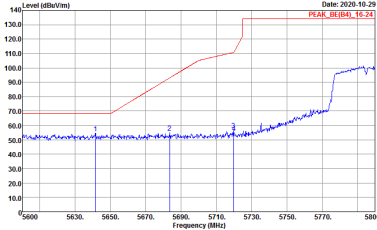
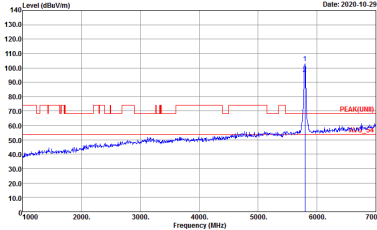
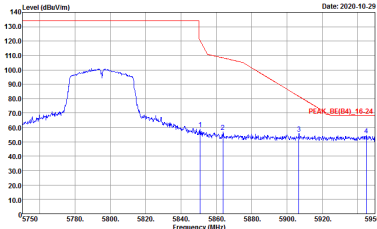
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	Left blank

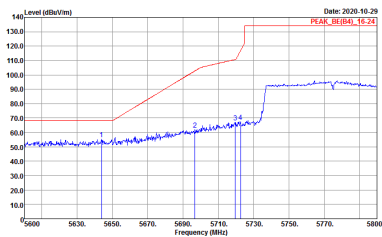
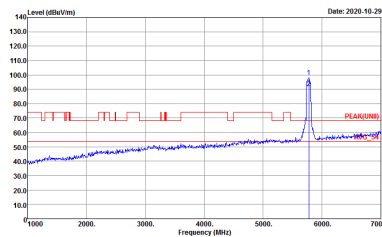
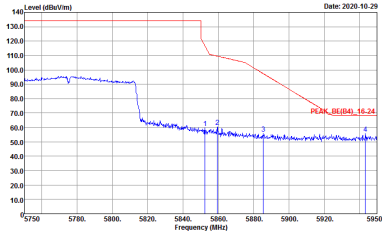


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	Left blank

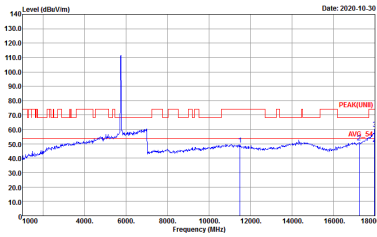
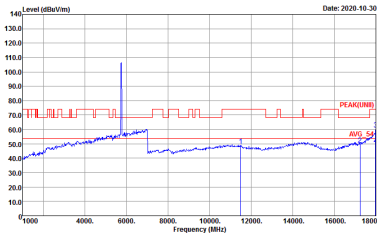


Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

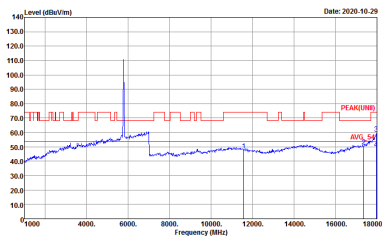
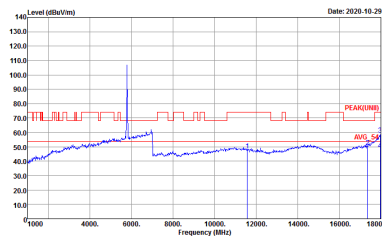
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01	Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01
Peak	Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	Left blank

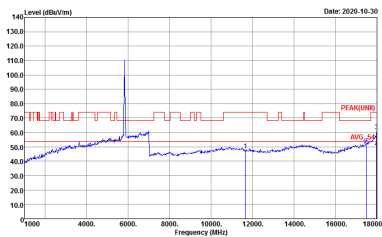
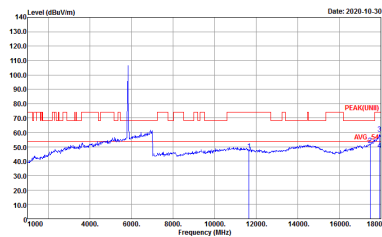
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



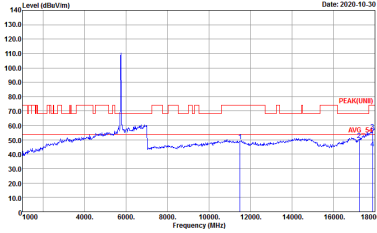
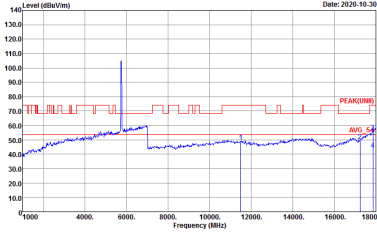
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-11Y Condition : PEAK(UM) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UM) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



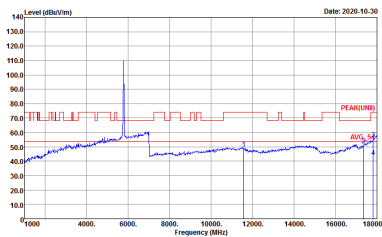
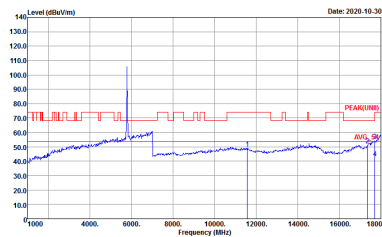
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



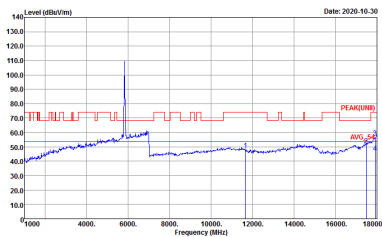
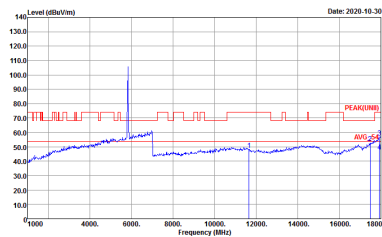
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



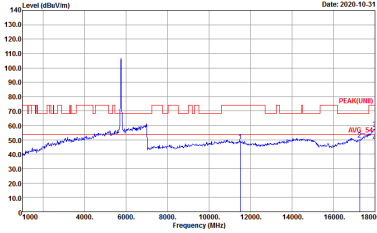
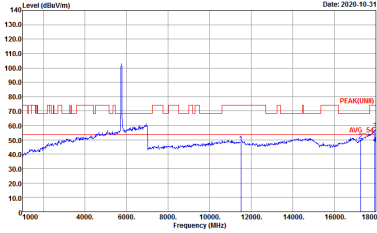
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



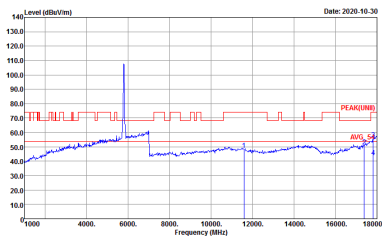
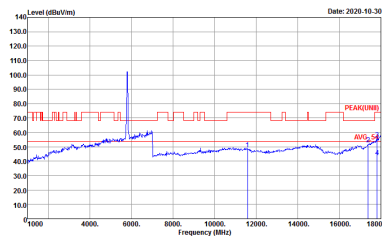
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



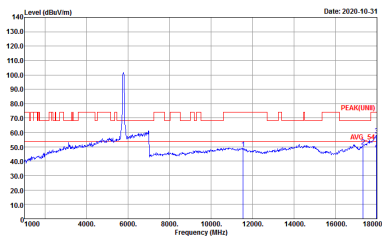
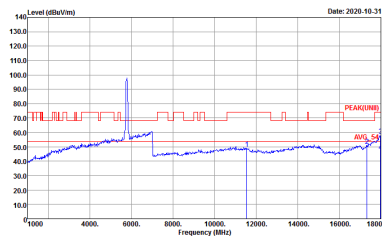
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01

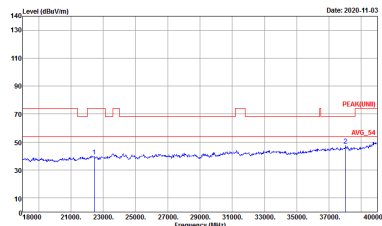
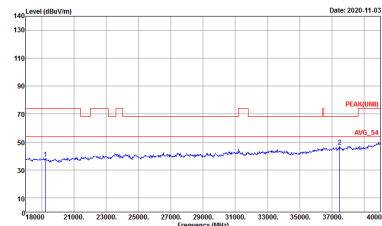


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01

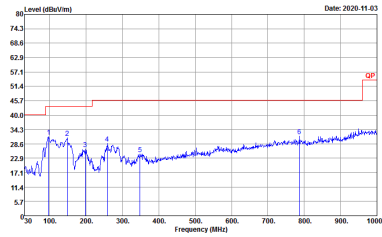
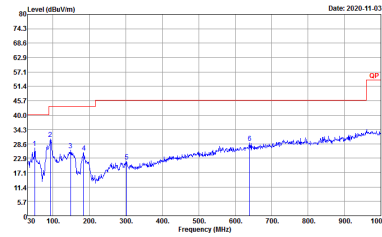
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01

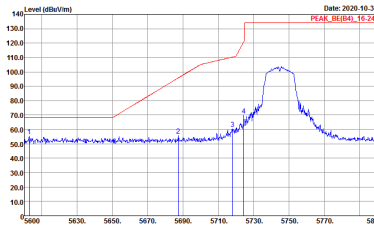
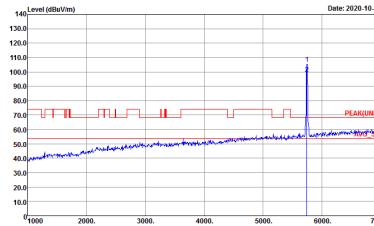
Emission above 18GHz
5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 SHF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : PEAK(UNIT) 1m SHF HORN BBH49170584 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 1m SHF HORN BBH49170584 VERTICAL Detector : Peak Project : 072932-01

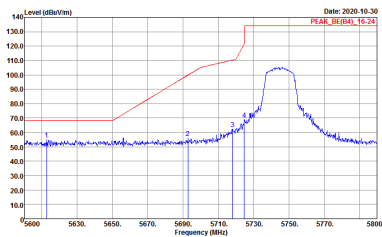
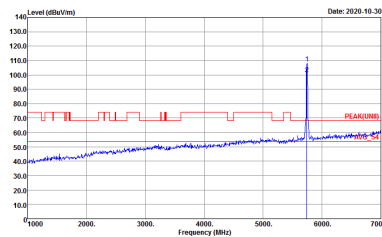
Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : QP 3m BIL06_41912A05 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : QP 3m BIL06_41912A05 VERTICAL Detector : Peak Project : 072932-01

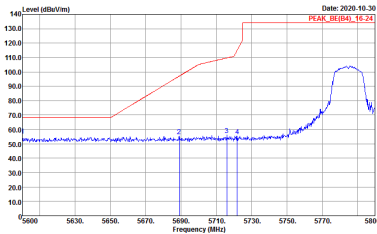
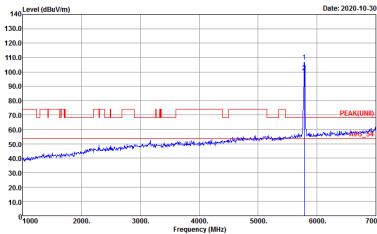
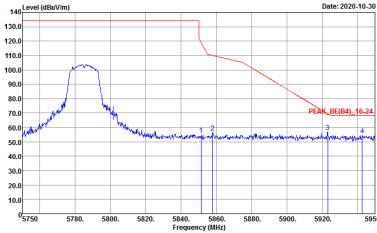
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_RE(B4)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01

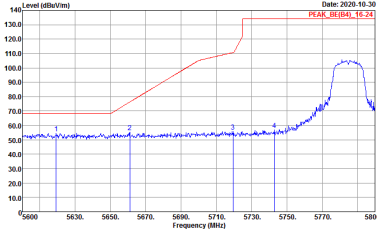
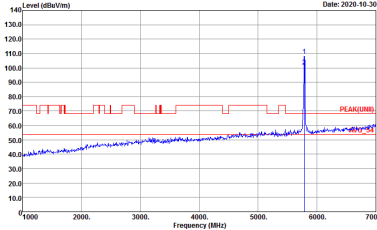
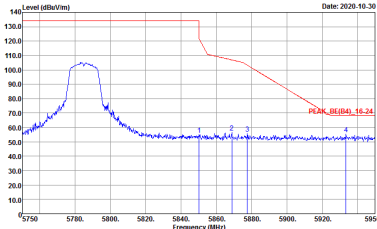


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01

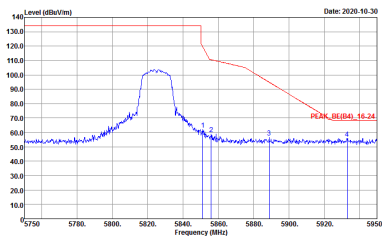
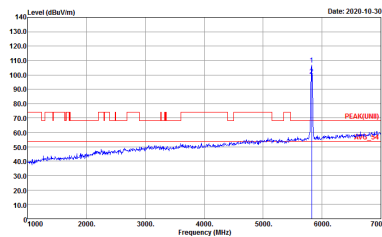


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	Left blank

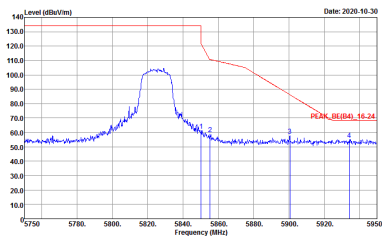
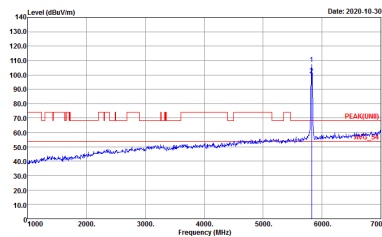


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	Left blank



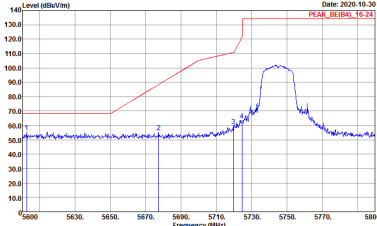
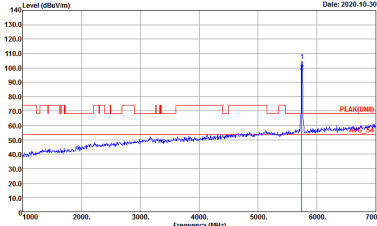
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH165-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH165-11Y Condition : PEAK(FUND) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01



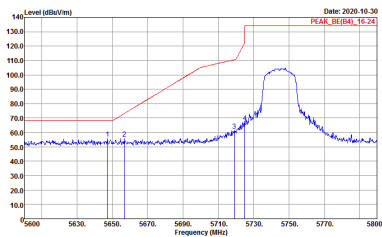
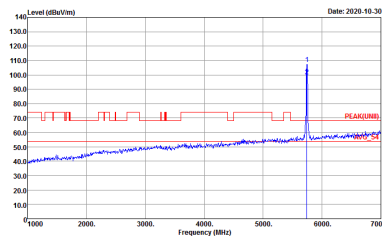
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH165-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH165-11Y Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01



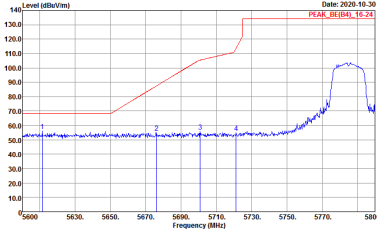
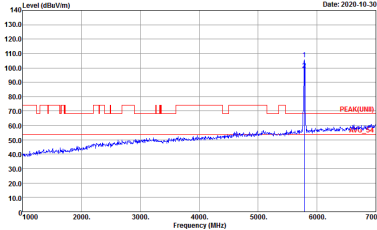
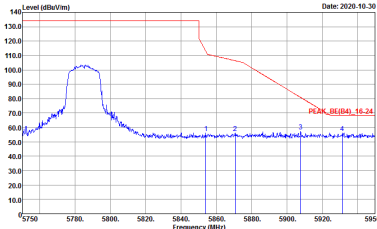
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01

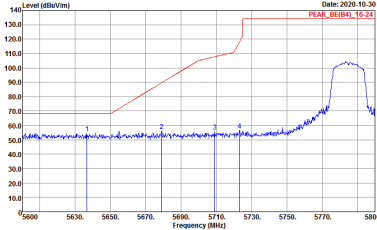
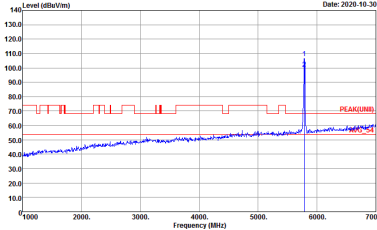
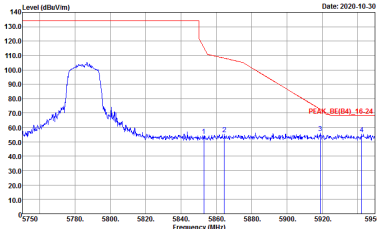


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01

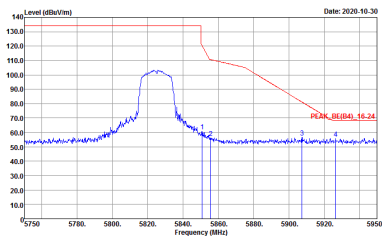
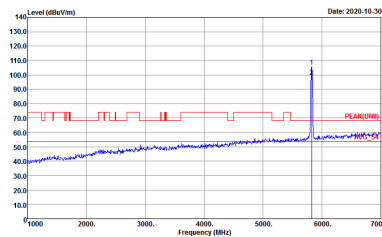


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	Left blank

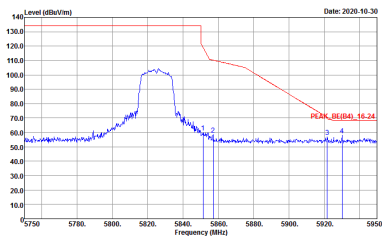
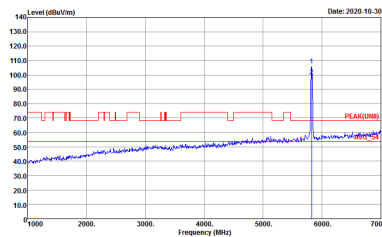


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	Left blank

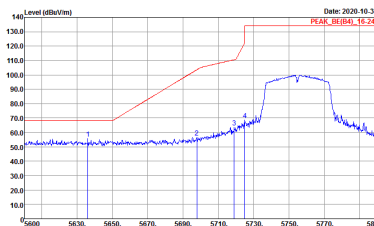
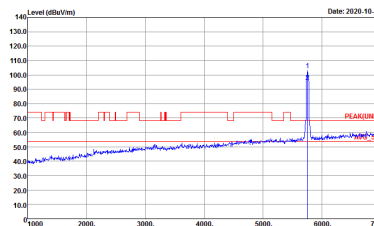
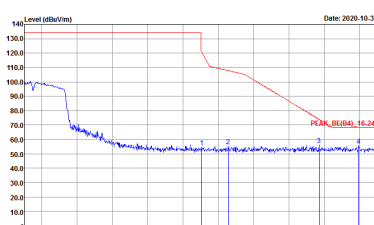


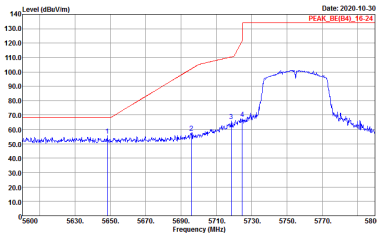
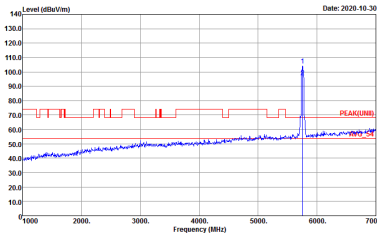
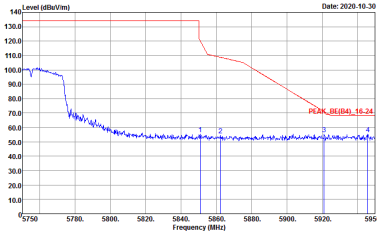
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01



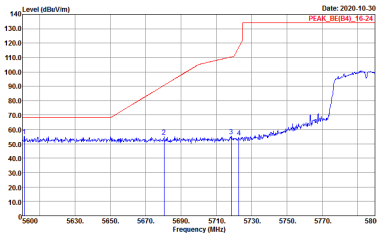
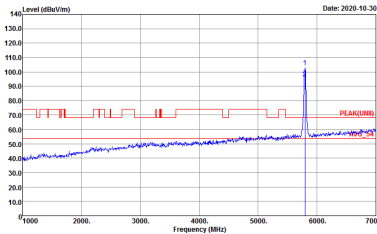
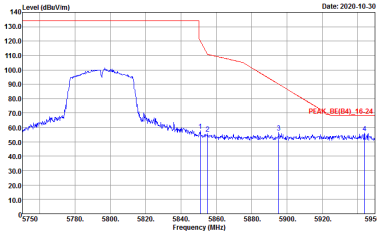
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072932-01

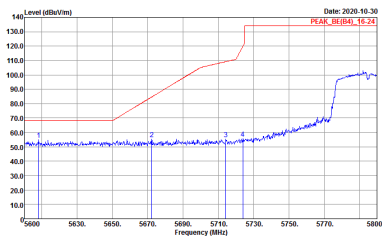
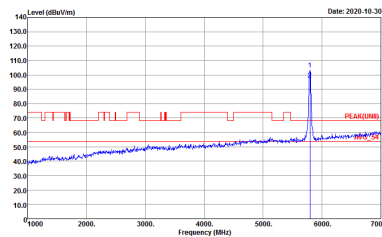
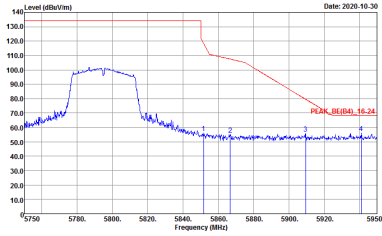
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01	Left blank

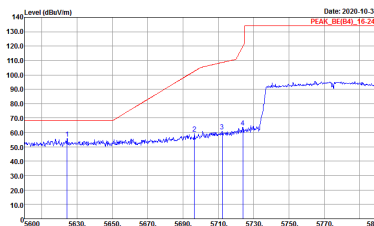
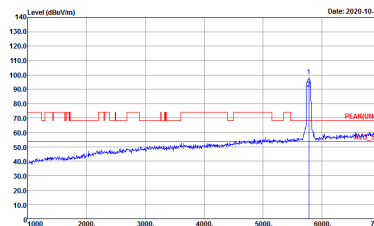
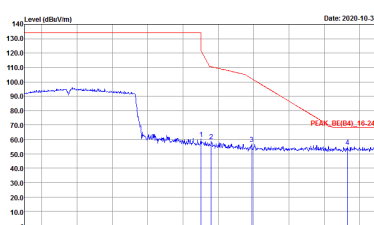
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	Left blank



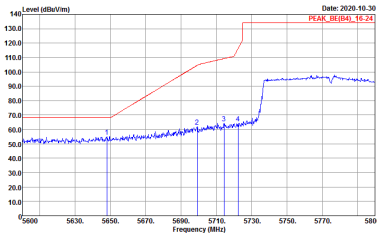
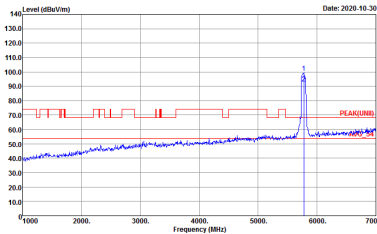
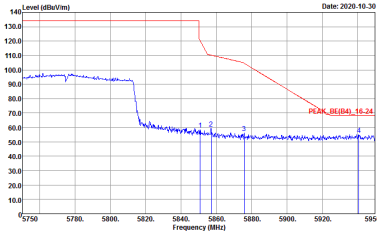
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	Left blank

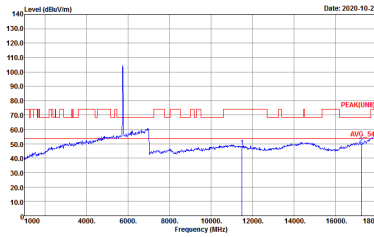
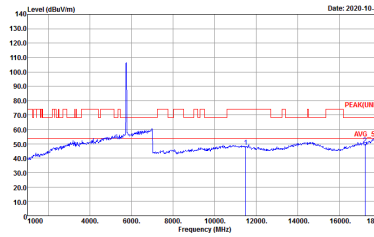
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 072932-01	Left blank

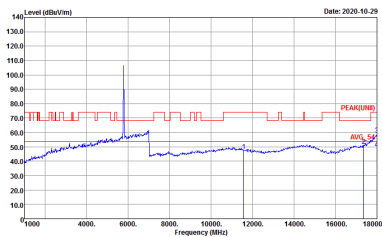
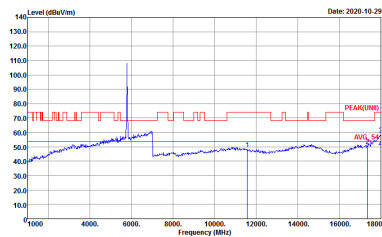


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01	Left blank

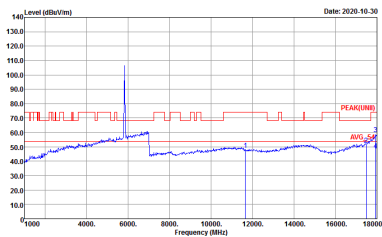
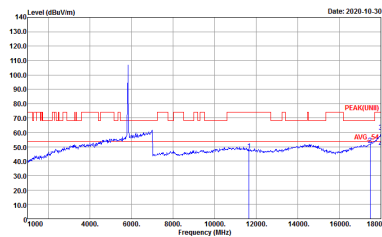
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



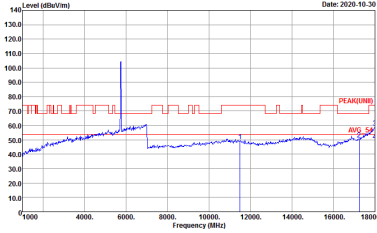
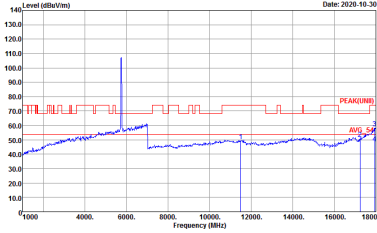
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



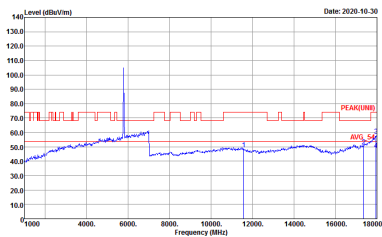
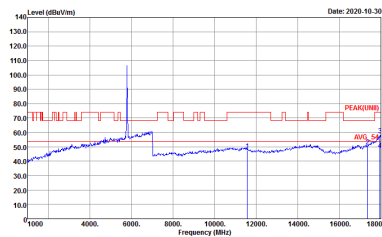
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-11Y Condition : PEAK(UM) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UM) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



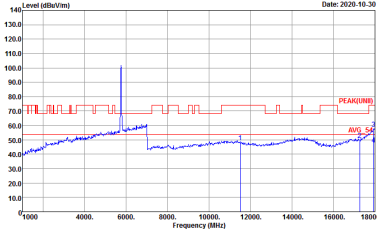
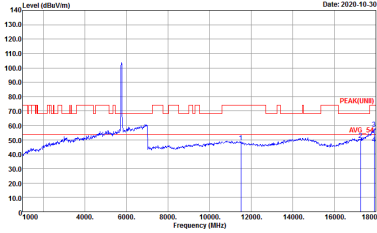
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



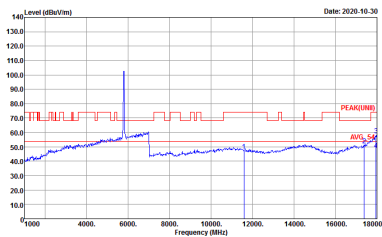
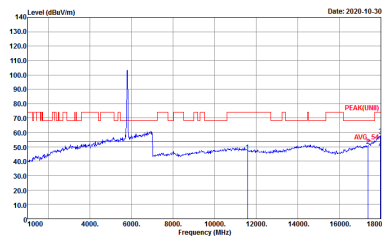
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-10-30 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	Level (dBuV/m) Date: 2020-10-30 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01



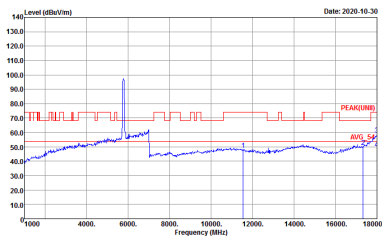
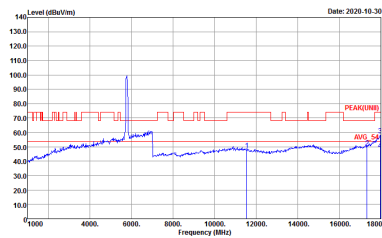
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01

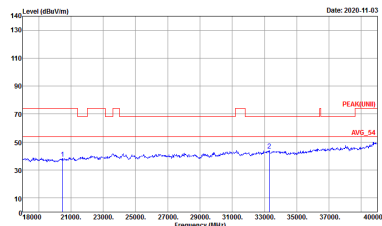
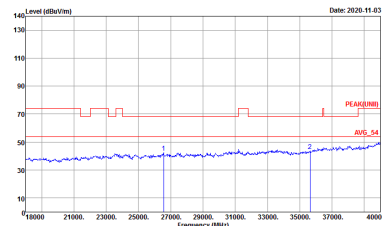


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-11Y Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01

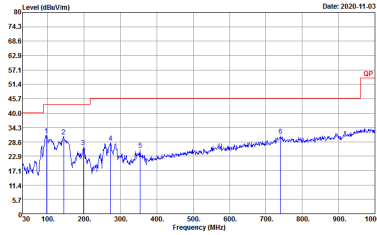
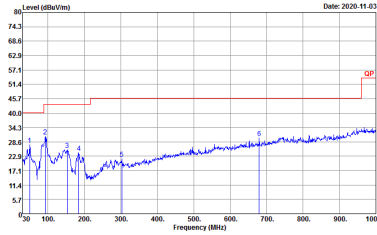
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 072932-01

Emission above 18GHz
5GHz WIFI 802.11n HT20 (SHF)

WIFI	5GHz WIFI	
ANT	802.11n HT20 SHF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : PEAK(UNIT) 1n SHF HORN BBHA9170584 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : PEAK(UNIT) 1n SHF HORN BBHA9170584 VERTICAL Detector : Peak Project : 072932-01

Emission below 1GHz
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : QP 3m BIL06_41912&05 HORIZONTAL Detector : Peak Project : 072932-01	 Site : 03CH16-HY Condition : QP 3m BIL06_41912&05 VERTICAL Detector : Peak Project : 072932-01

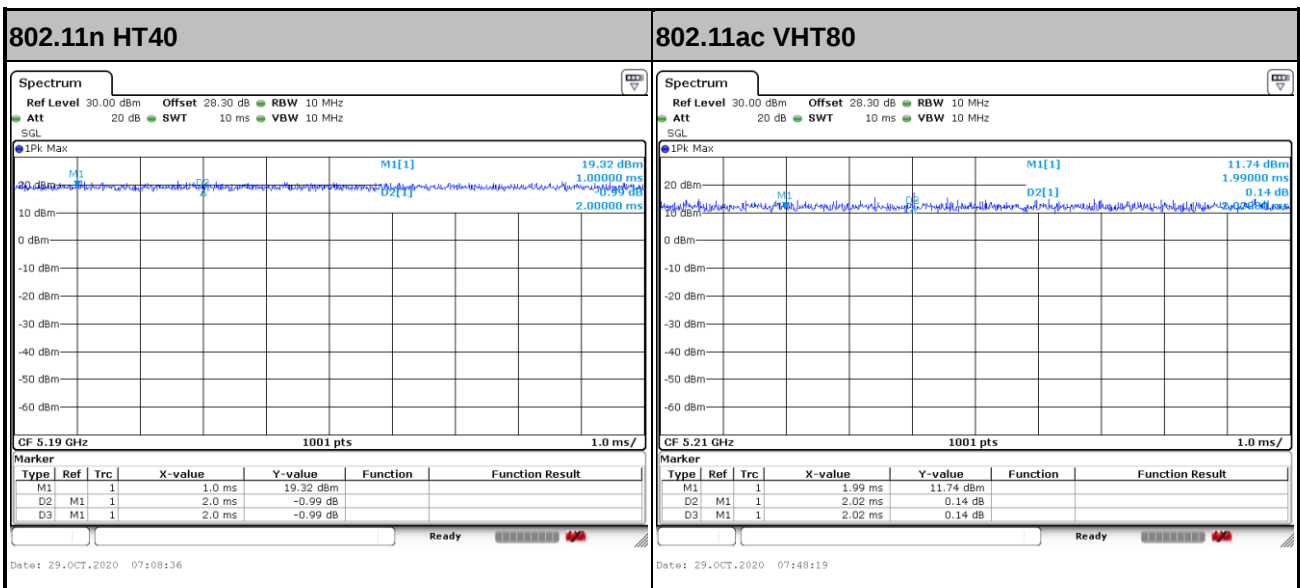
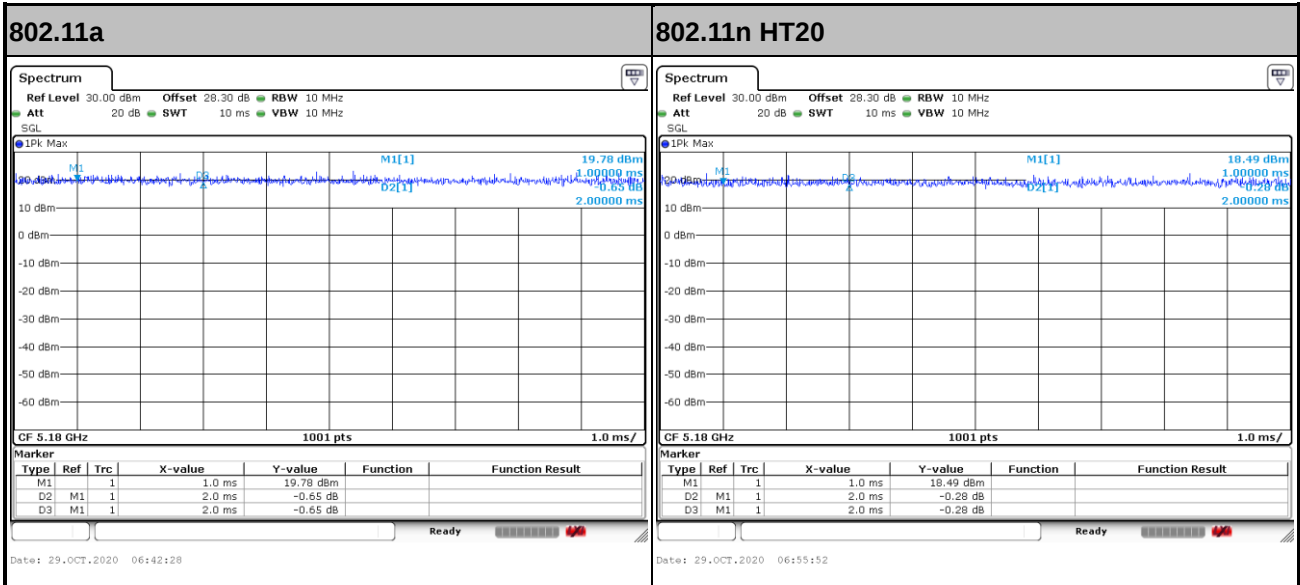


Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	100.00	-	-	10Hz	0.00
2	802.11a	100.00	-	-	10Hz	0.00
1	5GHz 802.11n HT20	100.00	-	-	10Hz	0.00
2	5GHz 802.11n HT20	100.00	-	-	10Hz	0.00
1	5GHz 802.11n HT40	100.00	-	-	10Hz	0.00
2	5GHz 802.11n HT40	100.00	-	-	10Hz	0.00
1	5GHz 802.11ac VHT80	100.00	-	-	10Hz	0.00
2	5GHz 802.11ac VHT80	100.00	-	-	10Hz	0.00

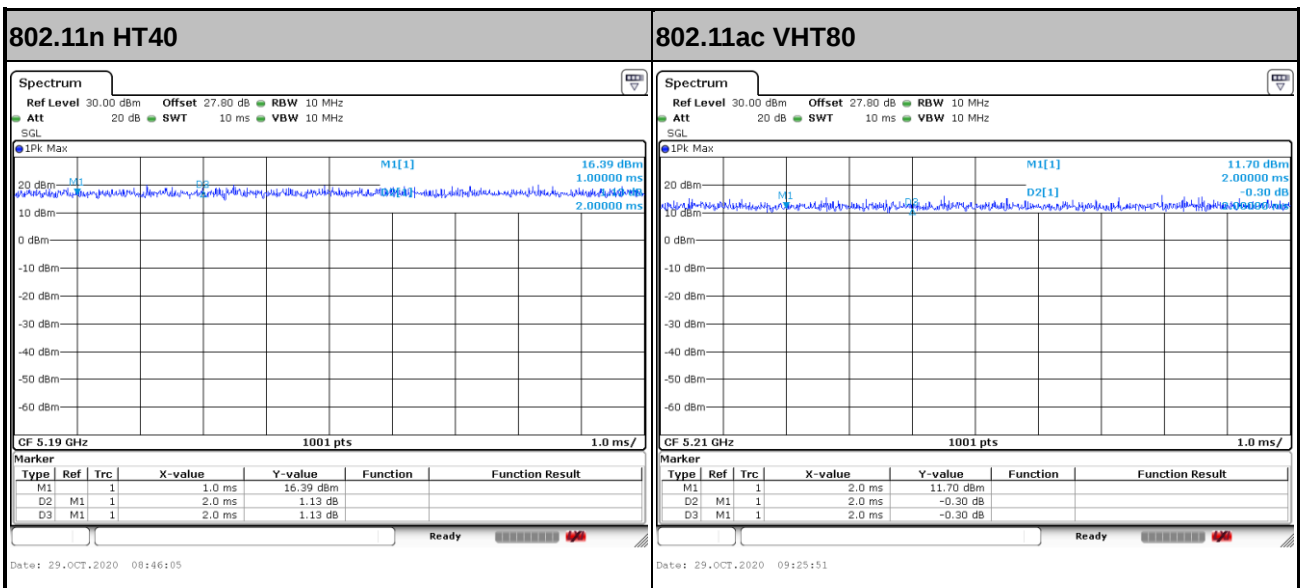
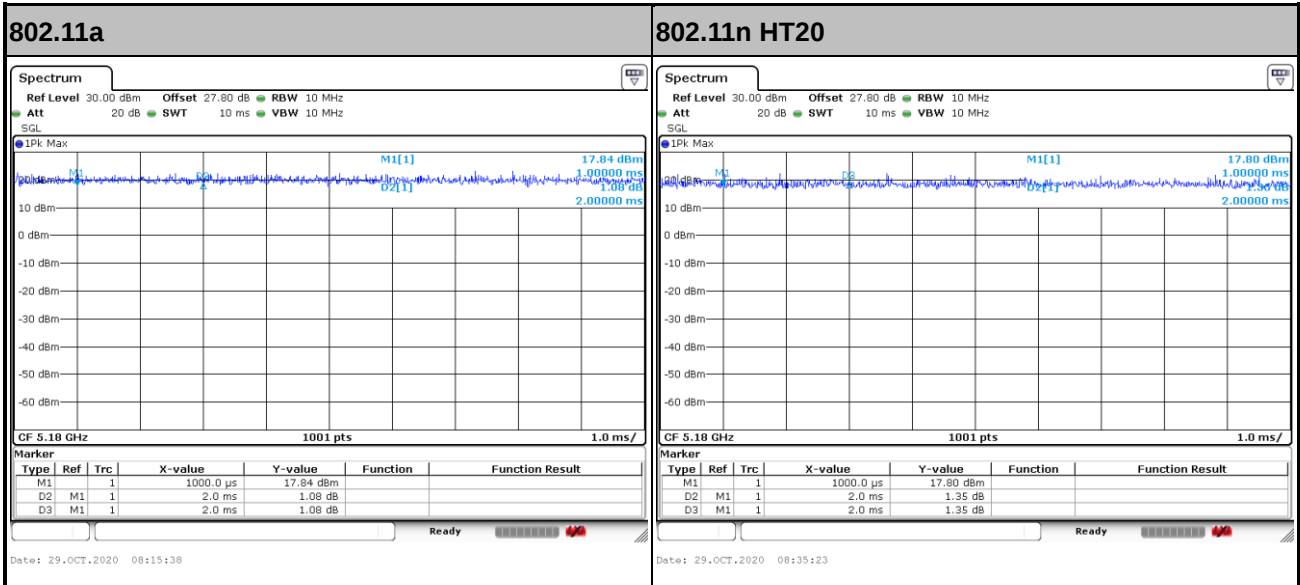


<Ant. 1>





<Ant. 2>



—THE END—