



FCC RADIO TEST REPORT

FCC ID : 2AVDZCM27
Equipment : IEEE 802.11 2X2 MIMO a/b/g/n/ac
Wireless LAN + Bluetooth + NFC
NGFF Module
Brand Name : LiveU
Applicant : LiveU, Inc
2 University Plaza Drive Suite 505,
Hackensack, New Jersey
Manufacturer : LiveU Ltd.
5 Hagavish St, Kfar Saba 4442211, Israel
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jan. 15, 2022 and testing was performed from Jan. 24, 2022 to Jul. 26, 2022. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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



Approved by: Neil Kao

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035

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History of this test report

Report No.	Version	Description	Issue Date
FR220103001E	01	Initial issue of report	Jul. 22, 2022
FR220103001E	02	1. Revise section 3.2.8 2. Revise Appendix B and Appendix C	Aug. 08, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.403(i)	6dB & 26dB Bandwidth	-	See Note
-	2.1049	99% Occupied Bandwidth	-	See Note
3.1	15.407(a)	Maximum Conducted Output Power	Pass	-
-	15.407(a)	Power Spectral Density	-	See Note
3.2	15.407(b)	Unwanted Emissions	Pass	0.30 dB under the limit at 7660.000 MHz
3.3	15.207	AC Conducted Emission	Pass	22.17 dB under the limit at 22.626 MHz
3.4	15.203 15.407(a)	Antenna Requirement	Pass	-

Note: The module (FCC ID: 2AVDZCM27) inside the host (Model: LU800) makes no significant difference in conducted output power which is a bit lower compared to the original module report after the measurements, hence, the conducted test results can be leveraged from the original module report.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. Please refer to the section "Uncertainty Evaluation" for measurement uncertainty.

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Feature		
Installed into the Host	Equipment Name: Live Video Transmission System Brand Name: LiveU Model Name: LU800	
Sample 1	Module 0	
Sample 2	Module 1	
Antenna Type	WLAN: <Ant. 1>: PCB Printed Antenna Inverted F <Ant. 2>: PCB Printed Antenna Inverted F <Ant. 3>: PCB Printed Antenna Inverted F <Ant. 4>: PCB Printed Antenna Inverted F Bluetooth: <Ant. 1>: PCB Printed Antenna Inverted F <Ant. 3>: PCB Printed Antenna Inverted F	
Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	<Ant. 1>: 3.6 dBi <Ant. 2>: 3.72 dBi <Ant. 3>: 4.56 dBi <Ant. 4>: 4.5 dBi

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

Test Site	Sporton International (USA) Inc.		
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300		
Test Site No.	Sporton Site No.		
	TH01-CA	CO01-CA	03CH02-CA
Test Engineer	Liliana Gonzalez	Yuan Lee	Michael Bui, Daniel Li, Yuan Lee and Fu Chen
Temperature (°C)	15.4~25 °C	20~22 °C	20~25 °C
Relative Humidity (%)	31.8~52.6%	40~42%	42~50%

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

1.4 Applicable Standards

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

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

Remark: All the test items were validated and recorded in accordance with the standards without any modification during the testing.

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: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane as worst plane.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
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 with "*" are 802.11ac VHT40.
2. The above Frequency and Channel with "[#]" are 802.11ac VHT80.

2.2 Test Mode

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

MIMO Mode

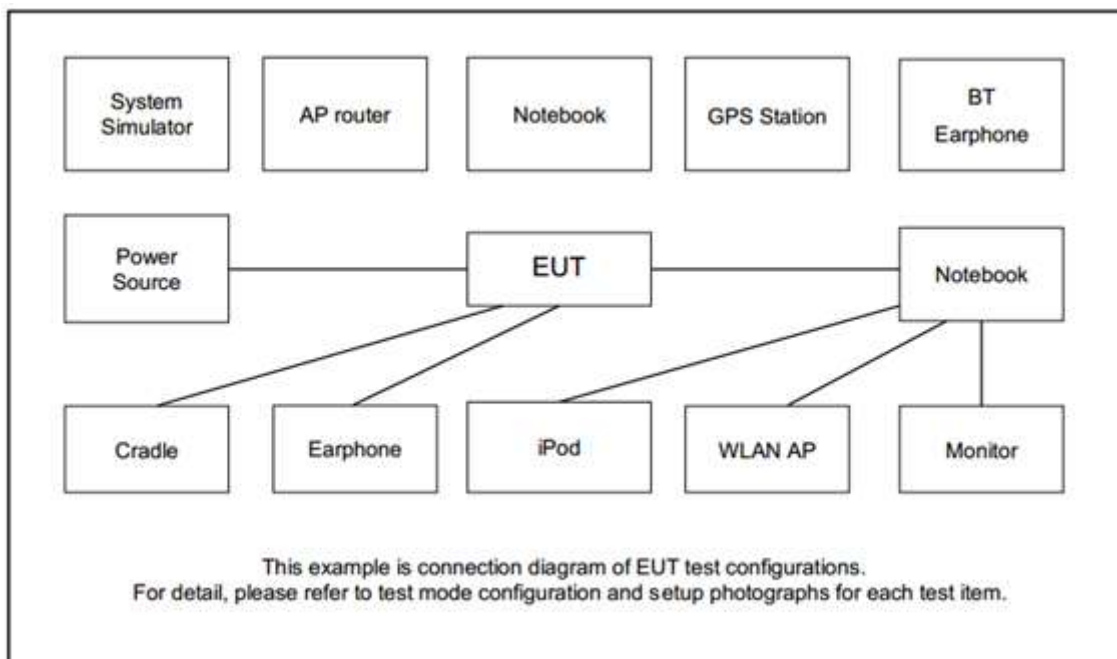
Modulation	Data Rate
802.11a	6 Mbps
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Tx + Charging from Adapter for Sample 1 Mode 2 : WLAN (5GHz) Tx + Charging from Adapter for Sample 2

Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Acer	Altos PS548-G1	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility "PuTTY Release 0.62" 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.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 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.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

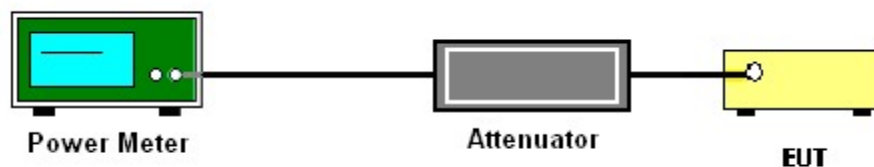
<CDD Modes>

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

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

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

3.1.4 Test Setup



**3.1.5 Test Result of Maximum Conducted Output Power**

<Sample 1>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	18.37	17.58	21.00	30.00		3.72		Pass
11a	6Mbps	2	157	5785	17.52	16.78	20.18	30.00		3.72		Pass
11a	6Mbps	2	165	5825	19.57	19.27	22.43	30.00		3.72		Pass
VHT20	MCS0	2	149	5745	18.99	18.60	21.81	30.00		3.72		Pass
VHT20	MCS0	2	157	5785	17.63	17.18	20.42	30.00		3.72		Pass
VHT20	MCS0	2	165	5825	19.96	19.64	22.81	30.00		3.72		Pass
VHT40	MCS0	2	151	5755	18.17	17.81	21.00	30.00		3.72		Pass
VHT40	MCS0	2	159	5795	16.48	15.97	19.24	30.00		3.72		Pass
VHT80	MCS0	2	155	5775	15.55	14.38	18.01	30.00		3.72		Pass

**<Sample 2>**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 3	Ant 4	SUM	Ant 3	Ant 4	Ant 3	Ant 4	
11a	6Mbps	2	149	5745	16.53	16.12	19.34	30.00		4.56		Pass
11a	6Mbps	2	157	5785	15.73	15.31	18.54	30.00		4.56		Pass
11a	6Mbps	2	165	5825	19.66	19.41	22.55	30.00		4.56		Pass
VHT20	MCS0	2	149	5745	15.75	15.33	18.56	30.00		4.56		Pass
VHT20	MCS0	2	157	5785	15.92	15.51	18.73	30.00		4.56		Pass
VHT20	MCS0	2	165	5825	19.85	19.64	22.76	30.00		4.56		Pass
VHT40	MCS0	2	151	5755	15.68	15.26	18.49	30.00		4.56		Pass
VHT40	MCS0	2	159	5795	14.70	14.26	17.50	30.00		4.56		Pass
VHT80	MCS0	2	155	5775	14.06	13.71	16.90	30.00		4.56		Pass

3.2 Unwanted Emissions Measurement

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

3.2.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 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 falls in restricted bands shall comply with the general field strength limits as below table,

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

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

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

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.

3.2.2 Measuring Instruments

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

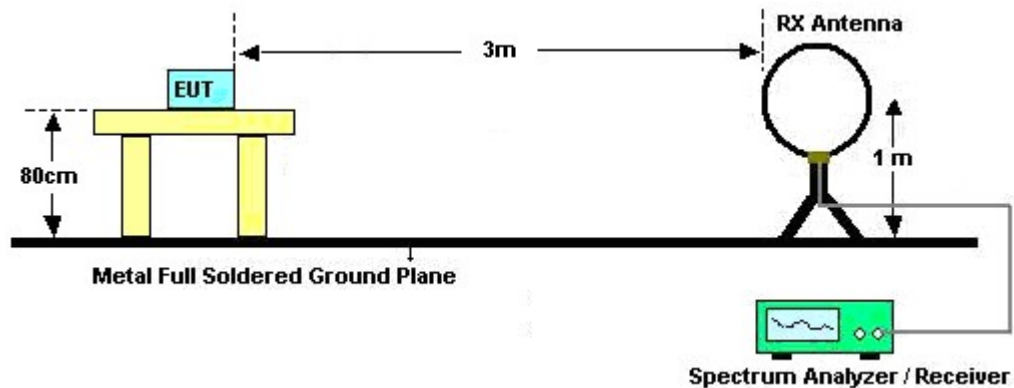
3.2.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

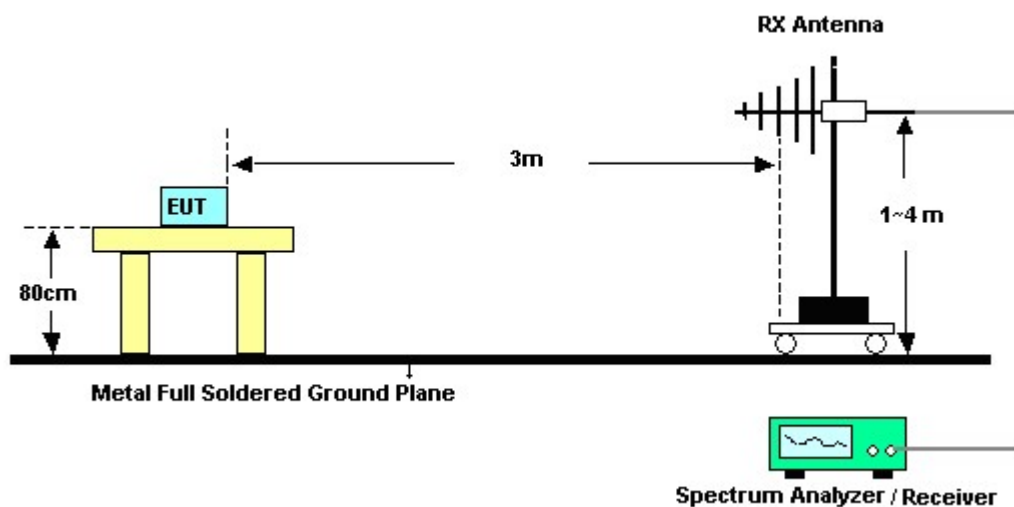
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.2.4 Test Setup

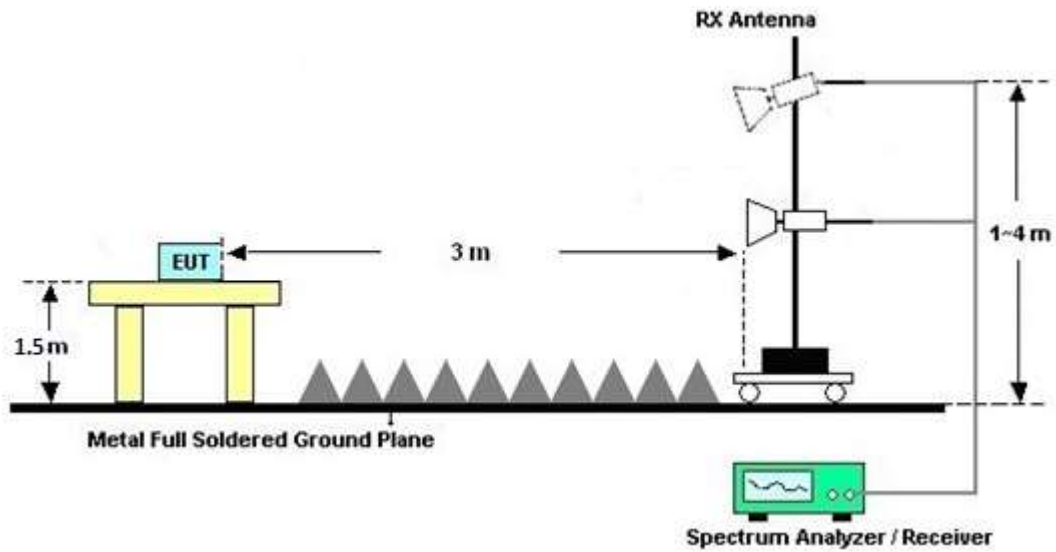
For radiated emissions below 30MHz



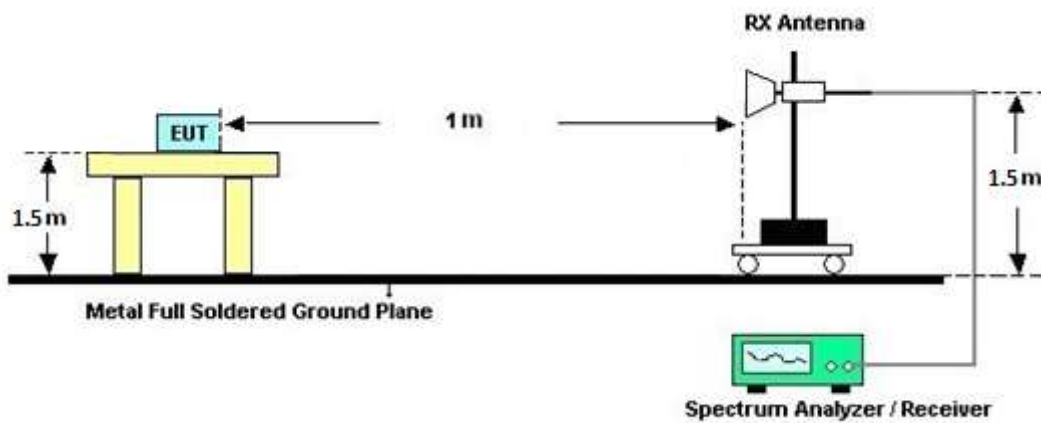
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





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

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

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

3.2.6 Test Result of Radiated Band Edges

Please refer to Appendix B and C.

3.2.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

Note: When the scan with peak detector exceeds the limit associated with the average detector, additional scan with average detection was performed to show compliance with the average limit. The additional scan plot of the low channel is provided for justification.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

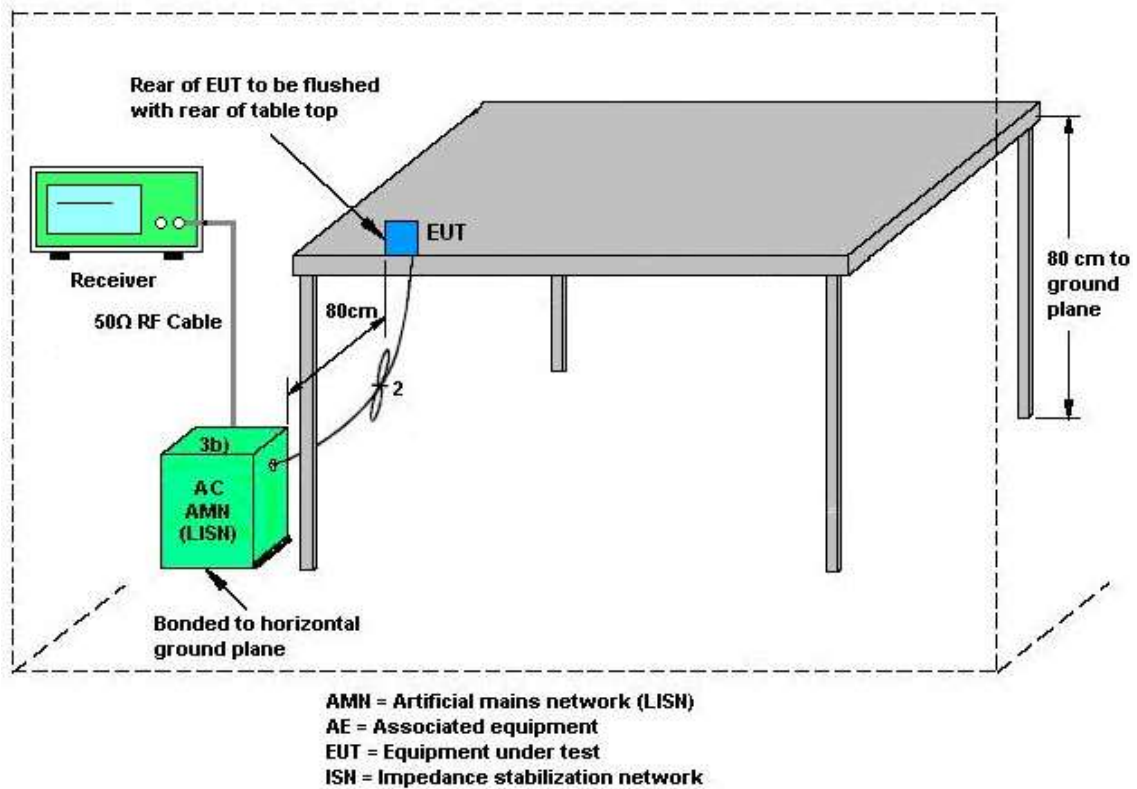
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



3.4 Antenna Requirements

3.4.1 Standard Applicable

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

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

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



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	45142595	N/A	Aug. 30, 2021	Jan. 24, 2022~ Jul. 11, 2022	Aug. 29, 2022	Conducted (TH01-CA)
Power Sensor	EM Electronics Corporation	RPR3006W	RPR6W-1901026	10MHz-6GHz	Jul. 26, 2021	Jan. 24, 2022~ Jul. 11, 2022	Jul. 25, 2022	Conducted (TH01-CA)
Switch Box & RF Cable	EM Electronics	EMSW26	1090304	N/A	Apr. 01, 2021	Jan. 24, 2022~ Mar. 29, 2022	Mar. 31, 2022	Conducted (TH01-CA)
Switch Box & RF Cable	EM Electronics	EMSW26	1090304	N/A	Mar. 30, 2022	Mar. 31, 2022~ Jul. 11, 2022	Mar. 29, 2023	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101089	10Hz-40GHz	Jun. 02, 2021	Jan. 24, 2022~ May 31, 2022	Jun. 01, 2022	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101089	10Hz-40GHz	Jun. 01, 2022	Jun. 02, 2022~ Jul. 11, 2022	May 31, 2023	Conducted (TH01-CA)
LISN	TESEQ	NNB51	47415	N/A	May 10, 2022	Jul. 13, 2022	May 09, 2023	Conduction (CO01-CA)
Pulse limiter with 10dB attenuation	SCHWARZBECK	VTSD 9561-FN	9561-F-N00412	N/A	Jul. 05, 2022	Jul. 13, 2022	Jul. 04, 2023	Conduction (CO01-CA)
EMI Test Receiver	R&S	ESR7	102177	7GHz	May 31, 2022	Jul. 13, 2022	May 30, 2023	Conduction (CO01-CA)
Software	R&S	EMC32	N/A	Version 10.30.00	N/A	Jul. 13, 2022	N/A	Conduction (CO01-CA)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9kHz~30MHz	Jan. 07, 2022	Jan. 24, 2022~ Jul. 26, 2022	Jan. 06, 2023	Radiation (03CH02-CA)
Bilog Antenna	TESEQ	6111D	54683	30MHz~1GHz	Oct. 15, 2021	Jan. 24, 2022~ Jul. 26, 2022	Oct. 14, 2022	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	01895	1GHz~18GHz	Aug. 25, 2021	Jan. 24, 2022~ Jul. 26, 2022	Aug. 24, 2022	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9170D	00842	18GHz~40GHz	Jul. 20, 2021	Jan. 24, 2022~ Jul. 18, 2022	Jul. 19, 2022	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9170D	00841	18GHz~40GHz	Aug. 26, 2021	Jul. 19, 2022~ Jul. 26, 2022	Aug. 25, 2022	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	N/A	Aug. 09, 2021	Jan. 24, 2022~ May 09, 2022	Aug. 08, 2022	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	N/A	May 10, 2022	May 10, 2022~ Jul. 26, 2022	May 09, 2023	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	Jul. 27, 2021	Jan. 24, 2022~ May 10, 2022	Jul. 26, 2022	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	May 11, 2022	May 11, 2022~ Jul. 26, 2022	May 10, 2023	Radiation (03CH02-CA)
Preamplifier	E-instrument	ERA-100M-18G-56-01-A70	EC1900251	1GHz~18GHz	Mar. 30, 2021	Jan. 24, 2022~ Mar. 28, 2022	Mar. 29, 2022	Radiation (03CH02-CA)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055004	1GHz~18GHz	Jul. 21, 2021	Mar. 29, 2022~ May 09, 2022	Jul. 20, 2022	Radiation (03CH02-CA)
Preamplifier	E-instrument	ERA-100M-18G-56-01-A70	EC1900251	1GHz~18GHz	May 10, 2022	May 10, 2022~ Jul. 26, 2022	May 09, 2023	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	060725	18GHz-40GHz	Jul. 21, 2021	Jan. 24, 2022~ May 09, 2022	Jul. 20, 2022	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	060725	18GHz-40GHz	May 10, 2022	May 10, 2022~ Jul. 26, 2022	May 09, 2023	Radiation (03CH02-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	8024032/2, 8024062/2, 802856/2	N/A	Jun. 23, 2021	Jan. 24, 2022~ Jun. 21, 2022	Jun. 22, 2022	Radiation (03CH02-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	8024032/2, 8024062/2, 802875/2	N/A	Jun. 22, 2022	Jun. 22, 2022~ Jul. 26, 2022	Jun. 21, 2023	Radiation (03CH02-CA)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY57420221	10Hz~44GHz	Sep. 22, 2021	Jan. 24, 2022~ Jul. 26, 2022	Sep. 21, 2022	Radiation (03CH02-CA)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN8	6.75GHz High Pass Filter	Jul. 22, 2021	Jan. 24, 2022~ Jul. 20, 2022	Jul. 21, 2022	Radiation (03CH02-CA)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN8	6.75GHz High Pass Filter	Jul. 21, 2022	Jul. 21, 2022~ Jul. 26, 2022	Jul. 20, 2023	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200-1 272-11000-40 SS	SN1	1.2GHz Low Pass Filter	Jul. 22, 2021	Jan. 24, 2022~ Jul. 20, 2022	Jul. 21, 2022	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200-1 272-11000-40 SS	SN1	1.2GHz Low Pass Filter	Jul. 21, 2022	Jul. 21, 2022~ Jul. 26, 2022	Jul. 20, 2023	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug. 04, 2021	Jan. 24, 2022~ Jul. 26, 2022	Aug. 03, 2022	Radiation (03CH02-CA)
Controller	ChainTek	EM-1000	060876	NA	N/A	Jan. 24, 2022~ Jul. 26, 2022	N/A	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 24, 2022~ Jul. 26, 2022	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 24, 2022~ Jul. 26, 2022	N/A	Radiation (03CH02-CA)
Software	Audix	E3	N/A	N/A	N/A	Jan. 24, 2022~ Jul. 26, 2022	N/A	Radiation (03CH02-CA)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.0 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.7 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.2 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.4 dB
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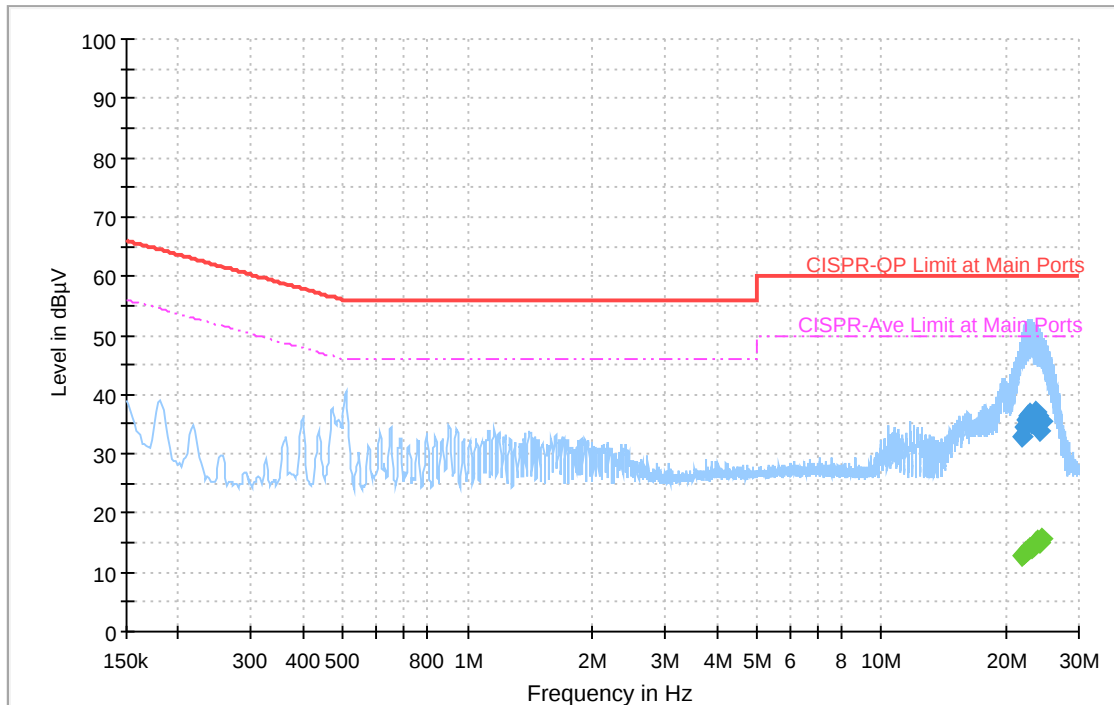
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Yuan Lee	Temperature :	20~22℃
		Relative Humidity :	40~42%

EUT Information

Site: CO01-CA
Power: 120Vac/60Hz
Project: 220103001

Full Spectrum



Final Result

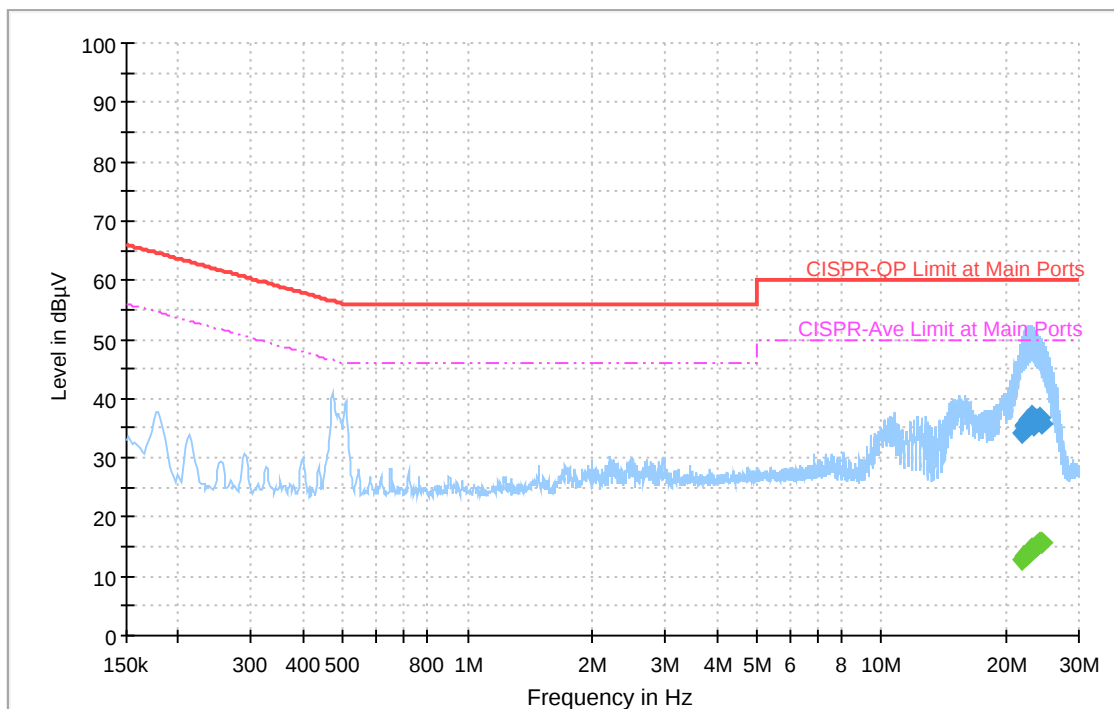
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
21.827211	32.94	---	60.00	27.06	L1	OFF	20.5
21.827211	---	12.84	50.00	37.16	L1	OFF	20.5
22.075026	34.61	---	60.00	25.39	L1	OFF	20.5
22.075026	---	12.98	50.00	37.02	L1	OFF	20.5
22.328178	35.94	---	60.00	24.06	L1	OFF	20.5
22.328178	---	13.46	50.00	36.54	L1	OFF	20.5
22.581726	36.50	---	60.00	23.50	L1	OFF	20.5
22.581726	---	13.81	50.00	36.19	L1	OFF	20.5
22.839324	36.74	---	60.00	23.26	L1	OFF	20.5
22.839324	---	14.07	50.00	35.93	L1	OFF	20.5
23.079462	35.21	---	60.00	24.79	L1	OFF	20.6
23.079462	---	14.15	50.00	35.85	L1	OFF	20.6
23.333271	35.23	---	60.00	24.77	L1	OFF	20.6
23.333271	---	14.53	50.00	35.47	L1	OFF	20.6
23.627940	37.22	---	60.00	22.78	L1	OFF	20.6
23.627940	---	15.12	50.00	34.88	L1	OFF	20.6
23.879544	36.42	---	60.00	23.58	L1	OFF	20.6
23.879544	---	15.45	50.00	34.55	L1	OFF	20.6
24.121581	33.91	---	60.00	26.09	L1	OFF	20.6
24.121581	---	14.94	50.00	35.06	L1	OFF	20.6
24.418347	35.60	---	60.00	24.40	L1	OFF	20.6
24.418347	---	15.59	50.00	34.41	L1	OFF	20.6

EUT Information

Site:
Power:
Project

CO01-CA
120Vac/60Hz
220103001

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
21.823395	34.34	---	60.00	25.66	N	OFF	20.5
21.823395	---	12.80	50.00	37.20	N	OFF	20.5
22.078374	35.50	---	60.00	24.50	N	OFF	20.5
22.078374	---	13.38	50.00	36.62	N	OFF	20.5
22.329015	35.80	---	60.00	24.20	N	OFF	20.5
22.329015	---	13.35	50.00	36.65	N	OFF	20.5
22.613352	36.38	---	60.00	23.62	N	OFF	20.5
22.613352	---	13.86	50.00	36.14	N	OFF	20.5
22.863921	36.22	---	60.00	23.78	N	OFF	20.5
22.863921	---	14.34	50.00	35.66	N	OFF	20.5
23.116326	37.18	---	60.00	22.82	N	OFF	20.5
23.116326	---	14.57	50.00	35.43	N	OFF	20.5
23.369469	35.50	---	60.00	24.50	N	OFF	20.5
23.369469	---	14.66	50.00	35.34	N	OFF	20.5
23.628588	36.30	---	60.00	23.70	N	OFF	20.5
23.628588	---	15.04	50.00	34.96	N	OFF	20.5
23.889867	36.33	---	60.00	23.67	N	OFF	20.5
23.889867	---	15.35	50.00	34.65	N	OFF	20.5
24.177813	36.59	---	60.00	23.41	N	OFF	20.5
24.177813	---	15.75	50.00	34.25	N	OFF	20.5
24.428580	35.68	---	60.00	24.32	N	OFF	20.5
24.428580	---	15.75	50.00	34.25	N	OFF	20.5

EUT Information

Site:

Power:

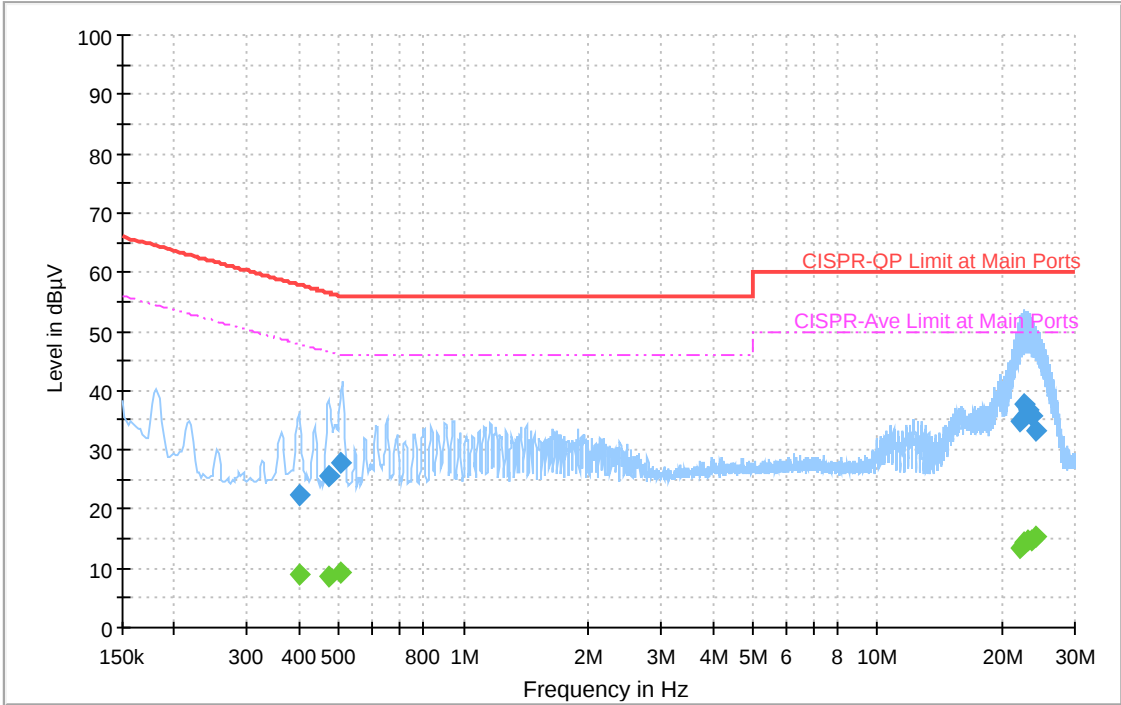
Project

CO01-CA

120Vac/60Hz

220103001

Full Spectrum



Final Result

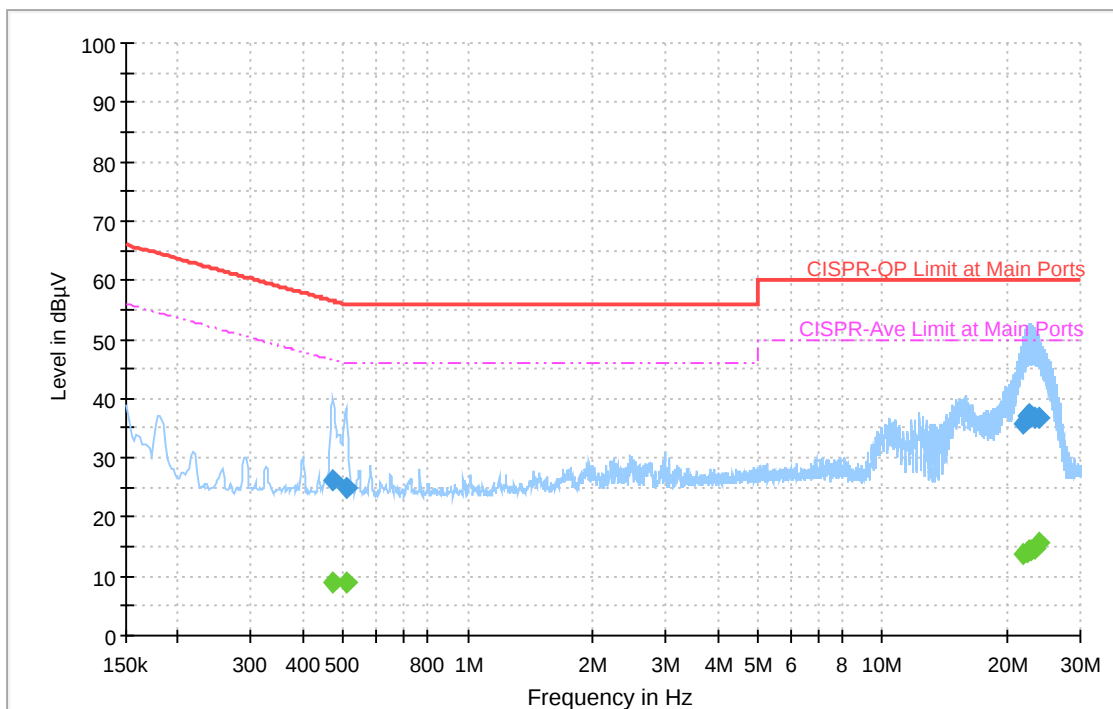
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.400065	---	8.86	47.85	38.99	L1	OFF	20.3
0.400065	22.46	---	57.85	35.39	L1	OFF	20.3
0.472353	---	8.77	46.47	37.70	L1	OFF	20.3
0.472353	25.61	---	56.47	30.86	L1	OFF	20.3
0.506688	---	9.20	46.00	36.80	L1	OFF	20.3
0.506688	27.66	---	56.00	28.34	L1	OFF	20.3
22.087581	---	13.26	50.00	36.74	L1	OFF	20.5
22.087581	34.78	---	60.00	25.22	L1	OFF	20.5
22.625835	---	14.34	50.00	35.66	L1	OFF	20.5
22.625835	37.83	---	60.00	22.17	L1	OFF	20.5
23.133741	---	14.63	50.00	35.37	L1	OFF	20.6
23.133741	36.71	---	60.00	23.29	L1	OFF	20.6
23.633115	---	14.82	50.00	35.18	L1	OFF	20.6
23.633115	35.74	---	60.00	24.26	L1	OFF	20.6
24.134991	---	15.21	50.00	34.79	L1	OFF	20.6
24.134991	33.21	---	60.00	26.79	L1	OFF	20.6

EUT Information

Site:
Power:
Project

CO01-CA
120Vac/60Hz
220103001

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.474315	---	9.04	46.44	37.40	N	OFF	20.3
0.474315	26.34	---	56.44	30.10	N	OFF	20.3
0.509712	---	8.83	46.00	37.17	N	OFF	20.3
0.509712	24.95	---	56.00	31.05	N	OFF	20.3
21.875721	---	13.60	50.00	36.40	N	OFF	20.5
21.875721	35.83	---	60.00	24.17	N	OFF	20.5
22.386282	---	13.91	50.00	36.09	N	OFF	20.5
22.386282	36.91	---	60.00	23.09	N	OFF	20.5
22.635834	---	14.28	50.00	35.72	N	OFF	20.5
22.635834	37.48	---	60.00	22.52	N	OFF	20.5
22.883739	---	14.34	50.00	35.66	N	OFF	20.5
22.883739	37.21	---	60.00	22.79	N	OFF	20.5
23.392185	---	14.80	50.00	35.20	N	OFF	20.5
23.392185	36.84	---	60.00	23.16	N	OFF	20.5
23.929998	---	15.56	50.00	34.44	N	OFF	20.5
23.929998	36.79	---	60.00	23.21	N	OFF	20.5



Appendix B. Radiated Spurious Emission

Test Engineer :	Michael Bui, Daniel Lee, Yuan Lee and Fu Chen	Temperature :	20~25°C
		Relative Humidity :	42~50%

<Sample 1>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5646.4	52.32	-15.88	68.2	39.11	31.96	11.65	30.4	303	263	P	H
		5696.8	64.04	-38.8	102.84	50.79	31.98	11.69	30.42	303	263	P	H
		5717.8	73.01	-37.17	110.18	59.69	32.04	11.7	30.42	303	263	P	H
		5722.2	79.73	-36.09	115.82	66.38	32.06	11.71	30.42	303	263	P	H
		4972	53.31	-20.69	74	41.22	31.55	10.93	30.39	-	-	P	H
		4972	44.66	-9.34	54	32.57	31.55	10.93	30.39	-	-	A	H
		5440	54.41	-19.59	74	41.59	31.82	11.36	30.36	-	-	P	H
		5440	45.71	-8.29	54	32.89	31.82	11.36	30.36	-	-	A	H
	*	5745	108.16	-	-	94.72	32.14	11.72	30.42	303	263	P	H
	*	5745	100	-	-	86.56	32.14	11.72	30.42	303	263	A	H
		5642	57.6	-10.6	68.2	44.44	31.91	11.65	30.4	200	3	P	V
		5696.6	71.64	-31.05	102.69	58.4	31.97	11.69	30.42	200	3	P	V
		5717.6	80.43	-29.7	110.13	67.12	32.03	11.7	30.42	200	3	P	V
		5721.6	88.52	-25.93	114.45	75.18	32.05	11.71	30.42	200	3	P	V
		5026	57.14	-16.86	74	44.63	31.88	11.01	30.38	-	-	P	V
		5026	47.08	-6.92	54	34.57	31.88	11.01	30.38	-	-	A	V
		5410	56.64	-17.36	74	43.98	31.7	11.31	30.35	-	-	P	V
		5410	45.22	-8.78	54	32.56	31.7	11.31	30.35	-	-	A	V
	*	5745	116.58	-	-	103.16	32.12	11.72	30.42	200	3	P	V
	*	5745	109.53	-	-	96.11	32.12	11.72	30.42	200	3	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5611.6	53.37	-14.83	68.2	40.13	31.99	11.63	30.38	100	276	P	H
		5698.2	52.84	-51.03	103.87	39.59	31.98	11.69	30.42	100	276	P	H
		5716.6	54.93	-54.92	109.85	41.61	32.04	11.7	30.42	100	276	P	H
		5721.8	55.56	-59.34	114.9	42.22	32.05	11.71	30.42	100	276	P	H
		4852	53.3	-20.7	74	41.58	31.47	10.67	30.42	-	-	P	H
		4852	45	-9	54	33.28	31.47	10.67	30.42	-	-	A	H
		5404	53.26	-20.74	74	40.58	31.73	11.3	30.35	-	-	P	H
		5404	45.46	-8.54	54	32.78	31.73	11.3	30.35	-	-	A	H
	*	5785	107.46	-	-	93.87	32.27	11.75	30.43	100	276	P	H
	*	5785	100.33	-	-	86.74	32.27	11.75	30.43	100	276	A	H
		5853	62.2	-53.16	115.36	48.37	32.47	11.83	30.47	100	276	P	H
		5862.8	61.66	-46.95	108.61	47.83	32.47	11.84	30.48	100	276	P	H
		5876.4	60.1	-44.06	104.16	46.26	32.47	11.86	30.49	100	276	P	H
		5929.6	55.51	-12.69	68.2	41.54	32.55	11.93	30.51	100	276	P	H
		5604.8	56.56	-11.64	68.2	43.41	31.91	11.62	30.38	200	359	P	V
		5692	59.69	-39.61	99.3	46.46	31.97	11.68	30.42	200	359	P	V
		5710.8	64.63	-43.6	108.23	51.34	32.01	11.7	30.42	200	359	P	V
		5720.8	67.35	-45.27	112.62	54.03	32.04	11.7	30.42	200	359	P	V
		4822	57.36	-16.64	74	45.63	31.54	10.61	30.42	-	-	P	V
		4822	45.18	-8.82	54	33.45	31.54	10.61	30.42	-	-	A	V
		5440	57.69	-16.31	74	44.9	31.79	11.36	30.36	-	-	P	V
		5440	47.11	-6.89	54	34.32	31.79	11.36	30.36	-	-	A	V
	*	5785	117.46	-	-	103.87	32.27	11.75	30.43	200	359	P	V
	*	5785	110.48	-	-	96.89	32.27	11.75	30.43	200	359	A	V
		5852	71.84	-45.8	117.64	58	32.48	11.83	30.47	200	359	P	V
		5856.6	70.22	-40.13	110.35	56.38	32.48	11.83	30.47	200	359	P	V
		5877	67.6	-36.11	103.71	53.73	32.5	11.86	30.49	200	359	P	V
		5941.8	59.22	-8.98	68.2	45.21	32.58	11.94	30.51	200	359	P	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5098	53.77	-20.23	74	40.93	32.16	11.05	30.37	-	-	P	H
		5098	46.7	-7.3	54	33.86	32.16	11.05	30.37	-	-	A	H
		5428	53.89	-20.11	74	41.12	31.79	11.34	30.36	-	-	P	H
		5428	45.92	-8.08	54	33.15	31.79	11.34	30.36	-	-	A	H
	*	5825	107.57	-	-	93.83	32.4	11.79	30.45	385	51	P	H
	*	5825	99.81	-	-	86.07	32.4	11.79	30.45	385	51	A	H
		5853.2	76.24	-38.66	114.9	62.41	32.47	11.83	30.47	385	51	P	H
		5859	74.44	-35.24	109.68	60.61	32.47	11.84	30.48	385	51	P	H
		5875.2	65.58	-39.47	105.05	51.74	32.47	11.86	30.49	385	51	P	H
		5928.6	57.45	-10.75	68.2	43.48	32.55	11.93	30.51	385	51	P	H
		5092	58.22	-15.78	74	45.54	32	11.05	30.37	-	-	P	V
		5092	47.8	-6.2	54	35.12	32	11.05	30.37	-	-	A	V
		5458	58.26	-15.74	74	45.39	31.84	11.39	30.36	-	-	P	V
		5458	47.44	-6.56	54	34.57	31.84	11.39	30.36	-	-	A	V
	*	5825	116.7	-	-	102.96	32.4	11.79	30.45	100	22	P	V
	*	5825	109.95	-	-	96.21	32.4	11.79	30.45	100	22	A	V
		5851.2	85.86	-33.6	119.46	72.03	32.47	11.83	30.47	100	22	P	V
		5856	85.52	-25	110.52	71.68	32.48	11.83	30.47	100	22	P	V
		5880.2	76.33	-25.01	101.34	62.46	32.5	11.86	30.49	100	22	P	V
		5929	65.82	-2.38	68.2	51.83	32.57	11.93	30.51	100	22	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		7660	51.42	-22.58	74	67.34	36.21	14.54	66.67	400	122	P	H
		7660	46.85	-7.15	54	62.77	36.21	14.54	66.67	400	122	A	H
		10696	48.69	-25.31	74	60.35	39.67	17.11	68.44	-	-	P	H
		10696	37.6	-16.4	54	49.26	39.67	17.11	68.44	-	-	A	H
		11490	56.29	-17.71	74	65.94	40.16	17.93	67.74	190	50	P	H
		11490	47.5	-6.5	54	57.15	40.16	17.93	67.74	190	50	A	H
		14480	51.06	-22.94	74	56.74	41.95	20.34	67.97	-	-	P	H
		14480	42.12	-11.88	54	47.8	41.95	20.34	67.97	-	-	A	H
		17235	50.69	-17.51	68.2	57.09	40.73	21.58	68.71	-	-	P	H
		17956	58.08	-15.92	74	58.72	47.68	21.92	70.24	-	-	P	H
		17956	47.88	-6.12	54	48.52	47.68	21.92	70.24	-	-	A	H
													H
		7660	57.38	-16.62	74	73.25	36.26	14.54	66.67	129	186	P	V
		7660	53.38	-0.62	54	69.25	36.26	14.54	66.67	129	186	A	V
		11490	54.32	-19.68	74	64.05	40.08	17.93	67.74	199	189	P	V
		11490	45.03	-8.97	54	54.76	40.08	17.93	67.74	199	189	A	V
		12027	49.05	-24.95	74	59.02	39.18	18.47	67.62	-	-	P	V
		12027	38.9	-15.1	54	48.87	39.18	18.47	67.62	-	-	A	V
		14491	52.15	-21.85	74	57.84	41.95	20.34	67.98	-	-	P	V
		14491	41.95	-12.05	54	47.64	41.95	20.34	67.98	-	-	A	V
		17235	51.15	-17.05	68.2	57.35	40.93	21.58	68.71	-	-	P	V
		18000	58.65	-15.35	74	57.38	49.04	21.95	69.72	-	-	P	V
		18000	49.66	-4.34	54	48.39	49.04	21.95	69.72	-	-	A	V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		7715	51.97	-22.03	74	68.19	36.19	14.58	66.99	397	110	P	H
		7715	47.61	-6.39	54	63.83	36.19	14.58	66.99	397	110	A	H
		11570	47.95	-26.05	74	57.52	40.04	18.01	67.62	-	-	P	H
		11785	48.52	-25.48	74	59	39.24	18.24	67.96	-	-	P	H
		11785	38.69	-15.31	54	49.17	39.24	18.24	67.96	-	-	A	H
		14491	51	-23	74	56.7	41.94	20.34	67.98	-	-	P	H
		14491	41.9	-12.1	54	47.6	41.94	20.34	67.98	-	-	A	H
		17355	50.98	-17.22	68.2	56.9	41.6	21.64	69.16	-	-	P	H
		17978	58.26	-15.74	74	58.06	48.25	21.93	69.98	-	-	P	H
		17978	48.81	-5.19	54	48.61	48.25	21.93	69.98	-	-	A	H
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		7715	58.48	-15.52	74	74.68	36.21	14.58	66.99	100	184	P	V
		7715	53.07	-0.93	54	69.27	36.21	14.58	66.99	100	184	A	V
		11570	47.89	-26.11	74	57.49	40.01	18.01	67.62	-	-	P	V
		11774	49.12	-24.88	74	59.62	39.19	18.23	67.92	-	-	P	V
		11774	38.68	-15.32	54	49.18	39.19	18.23	67.92	-	-	A	V
		14480	42.09	-11.91	54	47.8	41.92	20.34	67.97	-	-	A	V
		17355	52.46	-15.74	68.2	58.2	41.78	21.64	69.16	-	-	P	V
		17989	58.73	-15.27	74	57.86	48.79	21.93	69.85	-	-	P	V
		17989	49.41	-4.59	54	48.54	48.79	21.93	69.85	-	-	A	V
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													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		7770	51.09	-17.11	68.2	67.46	36.32	14.62	67.31	391	107	P	H
		11650	48.51	-25.49	74	58.27	39.74	18.09	67.59	-	-	P	H
		11895	48.85	-25.15	74	59.52	39.1	18.35	68.12	-	-	P	H
		11895	38.44	-15.56	54	49.11	39.1	18.35	68.12	-	-	A	H
		14491	52.05	-21.95	74	57.75	41.94	20.34	67.98	-	-	P	H
		14491	42.2	-11.8	54	47.9	41.94	20.34	67.98	-	-	A	H
		17475	53.48	-14.72	68.2	58.73	42.53	21.69	69.47	-	-	P	H
		17967	59.2	-14.8	74	59.43	47.96	21.92	70.11	-	-	P	H
		17967	48.47	-5.53	54	48.7	47.96	21.92	70.11	-	-	A	H
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													H
													H
		7275	50.24	-23.76	74	66.51	36.25	14.11	66.63	100	169	P	V
		7275	42.31	-11.69	54	58.58	36.25	14.11	66.63	100	169	A	V
		7770	56.14	-12.06	68.2	72.54	36.29	14.62	67.31	118	187	P	V
		11650	47.76	-26.24	74	57.51	39.75	18.09	67.59	-	-	P	V
		12016	48.92	-25.08	74	58.97	39.16	18.46	67.67	-	-	P	V
		12016	38.74	-15.26	54	48.79	39.16	18.46	67.67	-	-	A	V
		14491	51.39	-22.61	74	57.08	41.95	20.34	67.98	-	-	P	V
		14491	41.86	-12.14	54	47.55	41.95	20.34	67.98	-	-	A	V
		17475	52.73	-15.47	68.2	57.79	42.72	21.69	69.47	-	-	P	V
		18000	59.2	-14.8	74	57.93	49.04	21.95	69.72	-	-	P	V
		18000	49.83	-4.17	54	48.56	49.04	21.95	69.72	-	-	A	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 149 5745MHz		5639	52.52	-15.68	68.2	39.3	31.97	11.65	30.4	397	50	P	H
		5692.8	65.75	-34.14	99.89	52.51	31.98	11.68	30.42	397	50	P	H
		5716.6	71.96	-37.89	109.85	58.64	32.04	11.7	30.42	397	50	P	H
		5721.4	79.77	-34.22	113.99	66.44	32.05	11.7	30.42	397	50	P	H
		5086	53.99	-20.01	74	41.23	32.09	11.04	30.37	-	-	P	H
		5086	45.17	-8.83	54	32.41	32.09	11.04	30.37	-	-	A	H
		5446	53.39	-20.61	74	40.55	31.83	11.37	30.36	-	-	P	H
		5446	45.66	-8.34	54	32.82	31.83	11.37	30.36	-	-	A	H
	*	5745	108.04	-	-	94.6	32.14	11.72	30.42	397	50	P	H
	*	5745	100.3	-	-	86.86	32.14	11.72	30.42	397	50	A	H
		5646.6	59.75	-8.45	68.2	46.58	31.92	11.65	30.4	100	336	P	V
		5698.2	73.87	-30	103.87	60.63	31.97	11.69	30.42	100	336	P	V
		5713.2	84.17	-24.73	108.9	70.87	32.02	11.7	30.42	100	336	P	V
		5722.4	91.39	-24.88	116.27	78.05	32.05	11.71	30.42	100	336	P	V
		5020	56.89	-17.11	74	44.41	31.86	11	30.38	-	-	P	V
		5020	49.69	-4.31	54	37.21	31.86	11	30.38	-	-	A	V
		5422	56.49	-17.51	74	43.78	31.73	11.33	30.35	-	-	P	V
		5422	50.82	-3.18	54	38.11	31.73	11.33	30.35	-	-	A	V
	*	5745	116.64	-	-	103.22	32.12	11.72	30.42	100	336	P	V
	*	5745	109	-	-	95.58	32.12	11.72	30.42	100	336	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 157 5785MHz		5606.6	52.96	-15.24	68.2	39.72	32	11.62	30.38	400	62	P	H
		5698	54.24	-49.49	103.73	40.99	31.98	11.69	30.42	400	62	P	H
		5718.6	57.47	-52.94	110.41	44.15	32.04	11.7	30.42	400	62	P	H
		5723.2	59.83	-58.27	118.1	46.48	32.06	11.71	30.42	400	62	P	H
		5134	53.72	-20.28	74	40.94	32.07	11.07	30.36	-	-	P	H
		5134	45.42	-8.58	54	32.64	32.07	11.07	30.36	-	-	A	H
		5368	52.86	-21.14	74	40.32	31.64	11.26	30.36	-	-	P	H
		5368	45.02	-8.98	54	32.48	31.64	11.26	30.36	-	-	A	H
	*	5785	106.89	-	-	93.3	32.27	11.75	30.43	400	62	P	H
	*	5785	98.72	-	-	85.13	32.27	11.75	30.43	400	62	A	H
		5853.2	58.91	-55.99	114.9	45.08	32.47	11.83	30.47	400	62	P	H
		5866.8	59.93	-47.56	107.49	46.09	32.47	11.85	30.48	400	62	P	H
		5883.6	57.26	-41.55	98.81	43.41	32.47	11.87	30.49	400	62	P	H
		5938.4	53.32	-14.88	68.2	39.31	32.58	11.94	30.51	400	62	P	H
		5633.4	56.18	-12.02	68.2	43.02	31.91	11.64	30.39	100	335	P	V
		5689.6	61.05	-36.48	97.53	47.83	31.96	11.68	30.42	100	335	P	V
		5719.8	67.19	-43.55	110.74	53.87	32.04	11.7	30.42	100	335	P	V
		5724.8	67.96	-53.78	121.74	54.61	32.06	11.71	30.42	100	335	P	V
		5056	56.26	-17.74	74	43.66	31.96	11.02	30.38	-	-	P	V
		5056	46.83	-7.17	54	34.23	31.96	11.02	30.38	-	-	A	V
		5428	57.19	-16.81	74	44.46	31.75	11.34	30.36	-	-	P	V
		5428	48.09	-5.91	54	35.36	31.75	11.34	30.36	-	-	A	V
	*	5785	115.75	-	-	102.16	32.27	11.75	30.43	100	335	P	V
	*	5785	107.89	-	-	94.3	32.27	11.75	30.43	100	335	A	V
		5850	71.22	-50.98	122.2	57.39	32.47	11.83	30.47	100	335	P	V
		5860	71.44	-37.96	109.4	57.6	32.48	11.84	30.48	100	335	P	V
		5880.4	65.54	-35.65	101.19	51.67	32.5	11.86	30.49	100	335	P	V
		5935	59.92	-8.28	68.2	45.92	32.57	11.94	30.51	100	335	P	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 165 5825MHz		5044	53.4	-20.6	74	40.9	31.86	11.02	30.38	-	-	P	H
		5044	45.21	-8.79	54	32.71	31.86	11.02	30.38	-	-	A	H
		5452	53.48	-20.52	74	40.61	31.85	11.38	30.36	-	-	P	H
		5452	45.98	-8.02	54	33.11	31.85	11.38	30.36	-	-	A	H
	*	5825	107.71	-	-	93.97	32.4	11.79	30.45	384	51	P	H
	*	5825	99.94	-	-	86.2	32.4	11.79	30.45	384	51	A	H
		5850	76.46	-45.74	122.2	62.63	32.47	11.83	30.47	384	51	P	H
		5855.2	74.85	-35.89	110.74	61.02	32.47	11.83	30.47	384	51	P	H
		5876	70.08	-34.38	104.46	56.24	32.47	11.86	30.49	384	51	P	H
		5943	58.5	-9.7	68.2	44.47	32.59	11.95	30.51	384	51	P	H
		5062	59.24	-14.76	74	46.62	31.97	11.03	30.38	-	-	P	V
		5062	48.73	-5.27	54	36.11	31.97	11.03	30.38	-	-	A	V
		5422	56.53	-17.47	74	43.82	31.73	11.33	30.35	-	-	P	V
		5422	47.82	-6.18	54	35.11	31.73	11.33	30.35	-	-	A	V
	*	5825	116.49	-	-	102.75	32.4	11.79	30.45	100	337	P	V
	*	5825	108.8	-	-	95.06	32.4	11.79	30.45	100	337	A	V
		5852.8	86.78	-29.04	115.82	72.94	32.48	11.83	30.47	100	337	P	V
		5858.2	84.04	-25.86	109.9	70.19	32.48	11.84	30.47	100	337	P	V
		5882.8	76.32	-23.09	99.41	62.43	32.51	11.87	30.49	100	337	P	V
		5934.8	67.46	-0.74	68.2	53.46	32.57	11.94	30.51	100	337	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 149 5745MHz		7660	52.39	-21.61	74	68.31	36.21	14.54	66.67	386	123	P	H
		7660	48.23	-5.77	54	64.15	36.21	14.54	66.67	386	123	A	H
		11490	57.88	-16.12	74	67.53	40.16	17.93	67.74	190	53	P	H
		11490	47.54	-6.46	54	57.19	40.16	17.93	67.74	190	53	A	H
		12313	48.89	-25.11	74	58.68	38.94	18.71	67.44	-	-	P	H
		12313	39.12	-14.88	54	48.91	38.94	18.71	67.44	-	-	A	H
		14480	51.87	-22.13	74	57.55	41.95	20.34	67.97	-	-	P	H
		14480	42.13	-11.87	54	47.81	41.95	20.34	67.97	-	-	A	H
		17235	51.54	-16.66	68.2	57.94	40.73	21.58	68.71	-	-	P	H
		17978	58.78	-15.22	74	58.58	48.25	21.93	69.98	-	-	P	H
		17978	48.59	-5.41	54	48.39	48.25	21.93	69.98	-	-	A	H
													H
		7660	57.52	-16.48	74	73.39	36.26	14.54	66.67	100	181	P	V
		7660	53.7	-0.3	54	69.57	36.26	14.54	66.67	100	181	A	V
		11490	53.95	-20.05	74	63.68	40.08	17.93	67.74	194	207	P	V
		11490	44.66	-9.34	54	54.39	40.08	17.93	67.74	194	207	A	V
		12093	49.46	-24.54	74	58.99	39.22	18.53	67.28	-	-	P	V
		12093	39.6	-14.4	54	49.13	39.22	18.53	67.28	-	-	A	V
		14491	50.87	-23.13	74	56.56	41.95	20.34	67.98	-	-	P	V
		14491	41.99	-12.01	54	47.68	41.95	20.34	67.98	-	-	A	V
		17235	51.06	-17.14	68.2	57.26	40.93	21.58	68.71	-	-	P	V
		17989	58.95	-15.05	74	58.08	48.79	21.93	69.85	-	-	P	V
		17989	49.24	-4.76	54	48.37	48.79	21.93	69.85	-	-	A	V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 157 5785MHz		7715	52.68	-21.32	74	68.9	36.19	14.58	66.99	399	113	P	H
		7715	48.22	-5.78	54	64.44	36.19	14.58	66.99	399	113	A	H
		11158	48.67	-25.33	74	59.53	39.77	17.58	68.21	-	-	P	H
		11158	38.29	-15.71	54	49.15	39.77	17.58	68.21	-	-	A	H
		11570	47.71	-26.29	74	57.28	40.04	18.01	67.62	-	-	P	H
		14491	51.6	-22.4	74	57.3	41.94	20.34	67.98	-	-	P	H
		14491	42.11	-11.89	54	47.81	41.94	20.34	67.98	-	-	A	H
		17355	52.13	-16.07	68.2	58.05	41.6	21.64	69.16	-	-	P	H
		17978	58.58	-15.42	74	58.38	48.25	21.93	69.98	-	-	P	H
		17978	48.59	-5.41	54	48.39	48.25	21.93	69.98	-	-	A	H
													H
													H
		7715	58.03	-15.97	74	74.23	36.21	14.58	66.99	100	180	P	V
		7715	52.97	-1.03	54	69.17	36.21	14.58	66.99	100	180	A	V
		11570	47.96	-26.04	74	57.56	40.01	18.01	67.62	-	-	P	V
		12137	49.65	-24.35	74	58.9	39.26	18.57	67.08	-	-	P	V
		12137	39.93	-14.07	54	49.18	39.26	18.57	67.08	-	-	A	V
		14491	51.44	-22.56	74	57.13	41.95	20.34	67.98	-	-	P	V
		14491	41.96	-12.04	54	47.65	41.95	20.34	67.98	-	-	A	V
		17355	51.55	-16.65	68.2	57.29	41.78	21.64	69.16	-	-	P	V
		17989	59.64	-14.36	74	58.77	48.79	21.93	69.85	-	-	P	V
		17989	49.4	-4.6	54	48.53	48.79	21.93	69.85	-	-	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 165 5825MHz		7770	52.5	-15.7	68.2	68.87	36.32	14.62	67.31	393	110	P	H
		11650	47.81	-26.19	74	57.57	39.74	18.09	67.59	-	-	P	H
		12225	49.69	-24.31	74	58.98	39.19	18.64	67.12	-	-	P	H
		12225	38.82	-15.18	54	48.11	39.19	18.64	67.12	-	-	A	H
		14491	51.4	-22.6	74	57.1	41.94	20.34	67.98	-	-	P	H
		14491	41.85	-12.15	54	47.55	41.94	20.34	67.98	-	-	A	H
		17475	53.24	-14.96	68.2	58.49	42.53	21.69	69.47	-	-	P	H
		17989	58.85	-15.15	74	58.24	48.53	21.93	69.85	-	-	P	H
		17989	49.27	-4.73	54	48.66	48.53	21.93	69.85	-	-	A	H
													H
													H
													H
		7770	57.28	-10.92	68.2	73.68	36.29	14.62	67.31	100	176	P	V
		11650	47.67	-26.33	74	57.42	39.75	18.09	67.59	-	-	P	V
		12115	49.27	-24.73	74	58.66	39.24	18.55	67.18	-	-	P	V
		12115	38.93	-15.07	54	48.32	39.24	18.55	67.18	-	-	A	V
		14491	51.07	-22.93	74	56.76	41.95	20.34	67.98	-	-	P	V
		14491	41.79	-12.21	54	47.48	41.95	20.34	67.98	-	-	A	V
		17475	52.9	-15.3	68.2	57.96	42.72	21.69	69.47	-	-	P	V
		17475	43.59	-10.41	54	48.65	42.72	21.69	69.47	-	-	A	V
		18000	58.8	-15.2	74	57.53	49.04	21.95	69.72	-	-	P	V
		18000	49.68	-4.32	54	48.41	49.04	21.26	69.72	-	-	A	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		5647.2	56.04	-12.16	68.2	42.83	31.96	11.65	30.4	397	46	P	H
		5698.8	67.91	-36.41	104.32	54.66	31.98	11.69	30.42	397	46	P	H
		5712.4	82.24	-26.43	108.67	68.94	32.02	11.7	30.42	397	46	P	H
		5722.2	82	-33.82	115.82	68.65	32.06	11.71	30.42	397	46	P	H
		4984	53.54	-20.46	74	41.38	31.59	10.96	30.39	-	-	P	H
		4984	44.67	-9.33	54	32.51	31.59	10.96	30.39	-	-	A	H
		5446	53.73	-20.27	74	40.89	31.83	11.37	30.36	-	-	P	H
		5446	46.12	-7.88	54	33.28	31.83	11.37	30.36	-	-	A	H
	*	5755	104.06	-	-	90.58	32.17	11.73	30.42	397	46	P	H
	*	5755	96.66	-	-	83.18	32.17	11.73	30.42	397	46	A	H
		5853	63.85	-51.51	115.36	50.02	32.47	11.83	30.47	397	46	P	H
		5857.6	63.54	-46.53	110.07	49.71	32.47	11.83	30.47	397	46	P	H
		5877.4	59.23	-44.19	103.42	45.39	32.47	11.86	30.49	397	46	P	H
		5927.2	56.46	-11.74	68.2	42.49	32.55	11.93	30.51	397	46	P	H
		5648.2	67	-1.2	68.2	53.83	31.92	11.65	30.4	100	356	P	V
		5698.8	83.04	-21.28	104.32	69.79	31.98	11.69	30.42	100	356	P	V
		5719.6	92.82	-17.87	110.69	79.5	32.04	11.7	30.42	100	356	P	V
		5724.2	91.52	-28.86	120.38	78.18	32.05	11.71	30.42	100	356	P	V
		5050	56.89	-17.11	74	44.29	31.96	11.02	30.38	-	-	P	V
		5050	48.41	-5.59	54	35.81	31.96	11.02	30.38	-	-	A	V
		5452	57.06	-16.94	74	44.21	31.83	11.38	30.36	-	-	P	V
		5452	49.05	-4.95	54	36.2	31.83	11.38	30.36	-	-	A	V
	*	5755	113.26	-	-	99.79	32.16	11.73	30.42	100	356	P	V
	*	5755	106.03	-	-	92.56	32.16	11.73	30.42	100	356	A	V
		5854.2	73.77	-38.85	112.62	59.93	32.48	11.83	30.47	100	356	P	V
		5855.6	72.07	-38.56	110.63	58.23	32.48	11.83	30.47	100	356	P	V
		5879.2	68.81	-33.27	102.08	54.94	32.5	11.86	30.49	100	356	P	V
		5934.4	63.14	-5.06	68.2	49.15	32.57	11.93	30.51	100	356	P	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 159 5795MHz		5603.4	52.89	-15.31	68.2	39.65	32	11.62	30.38	398	51	P	H
		5691.6	53.5	-45.51	99.01	40.26	31.98	11.68	30.42	398	51	P	H
		5716.6	60.51	-49.34	109.85	47.19	32.04	11.7	30.42	398	51	P	H
		5722	60.35	-55.01	115.36	47	32.06	11.71	30.42	398	51	P	H
		4900	53.28	-20.72	74	41.48	31.43	10.77	30.4	-	-	P	H
		4900	44.32	-9.68	54	32.52	31.43	10.77	30.4	-	-	A	H
		5434	53.87	-20.13	74	41.08	31.8	11.35	30.36	-	-	P	H
		5434	45.96	-8.04	54	33.17	31.8	11.35	30.36	-	-	A	H
	*	5795	101.32	-	-	87.69	32.31	11.76	30.44	398	51	P	H
	*	5795	94.4	-	-	80.77	32.31	11.76	30.44	398	51	A	H
		5851	66.94	-52.98	119.92	53.11	32.47	11.83	30.47	398	51	P	H
		5858	65.92	-44.04	109.96	52.08	32.47	11.84	30.47	398	51	P	H
		5880.8	63.85	-37.04	100.89	50	32.47	11.87	30.49	398	51	P	H
		5931.2	56.93	-11.27	68.2	42.95	32.56	11.93	30.51	398	51	P	H
		5641.2	58.46	-9.74	68.2	45.3	31.91	11.65	30.4	249	358	P	V
		5699.8	66.65	-38.4	105.05	53.4	31.98	11.69	30.42	249	358	P	V
		5700	66.6	-38.6	105.2	53.35	31.98	11.69	30.42	249	358	P	V
		5721	68.3	-44.78	113.08	54.98	32.04	11.7	30.42	249	358	P	V
		5080	55.66	-18.34	74	43	31.99	11.04	30.37	-	-	P	V
		5080	46.47	-7.53	54	33.81	31.99	11.04	30.37	-	-	A	V
		5428	57.18	-16.82	74	44.45	31.75	11.34	30.36	-	-	P	V
		5428	47.66	-6.34	54	34.93	31.75	11.34	30.36	-	-	A	V
	*	5795	111.11	-	-	97.48	32.31	11.76	30.44	249	358	P	V
	*	5795	104.25	-	-	90.62	32.31	11.76	30.44	249	358	A	V
		5851	76.93	-42.99	119.92	63.1	32.47	11.83	30.47	249	358	P	V
		5855.2	75.63	-35.11	110.74	61.79	32.48	11.83	30.47	249	358	P	V
		5881.4	73.56	-26.89	100.45	59.67	32.51	11.87	30.49	249	358	P	V
		5930.2	64.53	-3.67	68.2	50.54	32.57	11.93	30.51	249	358	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		7671	51.75	-22.25	74	67.75	36.19	14.54	66.73	400	119	P	H
		7671	47.94	-6.06	54	63.94	36.19	14.54	66.73	400	119	A	H
		10850	49.11	-24.89	74	60.51	40.05	17.26	68.71	-	-	P	H
		10850	37.82	-16.18	54	49.22	40.05	17.26	68.71	-	-	A	H
		11510	47.89	-26.11	74	57.49	40.15	17.95	67.7	-	-	P	H
		14491	51.01	-22.99	74	56.71	41.94	20.34	67.98	-	-	P	H
		14491	41.9	-12.1	54	47.6	41.94	20.34	67.98	-	-	A	H
		17265	51.79	-16.41	68.2	58.05	40.91	21.59	68.76	-	-	P	H
		18000	58.41	-15.59	74	57.36	48.82	21.95	69.72	-	-	P	H
		18000	49.43	-4.57	54	48.38	48.82	21.95	69.72	-	-	A	H
													H
													H
		7671	56.54	-17.46	74	72.49	36.24	14.54	66.73	100	184	P	V
		7671	53.68	-0.32	54	69.63	36.24	14.54	66.73	100	184	A	V
		10839	48.7	-25.3	74	60.24	39.92	17.25	68.71	-	-	P	V
		10839	37.66	-16.34	54	49.2	39.92	17.25	68.71	-	-	A	V
		11510	47.96	-26.04	74	57.63	40.08	17.95	67.7	-	-	P	V
		14491	50.95	-23.05	74	56.64	41.95	20.34	67.98	-	-	P	V
		14491	41.98	-12.02	54	47.67	41.95	20.34	67.98	-	-	A	V
		17265	50.85	-17.35	68.2	56.9	41.12	21.59	68.76	-	-	P	V
		18000	59.13	-14.87	74	57.86	49.04	21.95	69.72	-	-	P	V
		18000	49.76	-4.24	54	48.49	49.04	21.95	69.72	-	-	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 159 5795MHz		7726	50.88	-23.12	74	67.13	36.22	14.59	67.06	398	113	P	H
		7726	47.01	-6.99	54	63.26	36.22	14.59	67.06	398	113	A	H
		11301	48.93	-25.07	74	59.76	39.75	17.73	68.31	-	-	P	H
		11301	38.41	-15.59	54	49.24	39.75	17.73	68.31	-	-	A	H
		11590	47.91	-26.09	74	57.46	40.01	18.03	67.59	-	-	P	H
		14491	50.74	-23.26	74	56.44	41.94	20.34	67.98	-	-	P	H
		14491	41.94	-12.06	54	47.64	41.94	20.34	67.98	-	-	A	H
		17385	51.49	-16.71	68.2	57.33	41.82	21.65	69.31	-	-	P	H
		17989	58.62	-15.38	74	58.01	48.53	21.93	69.85	-	-	P	H
		17989	49.18	-4.82	54	48.57	48.53	21.93	69.85	-	-	A	H
													H
													H
		7726	55.92	-18.08	74	72.17	36.22	14.59	67.06	100	175	P	V
		7726	52.27	-1.73	54	68.52	36.22	14.59	67.06	100	175	A	V
		11312	49.76	-24.24	74	60.58	39.73	17.74	68.29	-	-	P	V
		11312	38.29	-15.71	54	49.11	39.73	17.74	68.29	-	-	A	V
		11590	47.6	-26.4	74	57.18	39.98	18.03	67.59	-	-	P	V
		14491	51.05	-22.95	74	56.74	41.95	20.34	67.98	-	-	P	V
		14491	42.01	-11.99	54	47.7	41.95	20.34	67.98	-	-	A	V
		17385	51.84	-16.36	68.2	57.48	42.02	21.65	69.31	-	-	P	V
		17967	58.85	-15.15	74	58.75	48.29	21.92	70.11	-	-	P	V
		17967	48.9	-5.1	54	48.8	48.29	21.92	70.11	-	-	A	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5648	53.56	-14.64	68.2	40.06	31.96	11.65	30.11	317	80	P	H
		5680.4	61.6	-29.13	90.73	48.09	31.97	11.68	30.14	317	80	P	H
		5719.2	63.74	-46.84	110.58	50.15	32.05	11.7	30.16	317	80	P	H
		5720.6	64.78	-47.39	112.17	51.19	32.05	11.7	30.16	317	80	P	H
		5080	53.9	-20.1	74	40.88	32.06	11.04	30.08	-	-	P	H
		5080	45.35	-8.65	54	32.33	32.06	11.04	30.08	-	-	A	H
		5416	53.98	-20.02	74	40.97	31.76	11.32	30.07	-	-	P	H
		5416	45.52	-8.48	54	32.51	31.76	11.32	30.07	-	-	A	H
	*	5775	95.04	-	-	81.23	32.24	11.74	30.17	317	80	P	H
	*	5775	88.47	-	-	74.66	32.24	11.74	30.17	317	80	A	H
		5854.8	62.13	-49.13	111.26	48.01	32.47	11.83	30.18	317	80	P	H
		5859.4	61.02	-48.55	109.57	46.9	32.47	11.84	30.19	317	80	P	H
		5879	62.13	-40.1	102.23	48.01	32.47	11.86	30.21	317	80	P	H
		5943.4	54.69	-13.51	68.2	40.4	32.59	11.95	30.25	317	80	P	H
		5643	60.27	-7.93	68.2	46.81	31.92	11.65	30.11	163	180	P	V
		5694	72.39	-28.39	100.78	58.88	31.97	11.69	30.15	163	180	P	V
		5718	74.51	-35.73	110.24	60.94	32.03	11.7	30.16	163	180	P	V
		5724.2	76.37	-44.01	120.38	62.77	32.05	11.71	30.16	163	180	P	V
		5044	54.66	-19.34	74	41.78	31.94	11.02	30.08	-	-	P	V
		5044	46.13	-7.87	54	33.25	31.94	11.02	30.08	-	-	A	V
		5410	56.75	-17.25	74	43.81	31.7	11.31	30.07	-	-	P	V
		5410	48.29	-5.71	54	35.35	31.7	11.31	30.07	-	-	A	V
	*	5775	105.49	-	-	91.69	32.23	11.74	30.17	163	180	P	V
	*	5775	98.44	-	-	84.64	32.23	11.74	30.17	163	180	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5854.4	72	-40.17	112.17	57.87	32.48	11.83	30.18	163	180	P	V
VHT80		5858.4	74	-35.85	109.85	59.87	32.48	11.84	30.19	163	180	P	V
CH 155		5887.4	69.7	-26.29	95.99	55.54	32.51	11.87	30.22	163	180	P	V
5775MHz		5943.4	61.18	-7.02	68.2	46.89	32.59	11.95	30.25	163	180	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
i802.11ac VHT80 CH 155 5775MHz		7319	47.68	-26.32	74	64.15	36.33	14.02	66.82	-	-	P	H
		11550	47.18	-26.82	74	57.16	40.06	17.48	67.52	-	-	P	H
		13347	49.54	-24.46	74	58.6	39.5	18.93	67.49	-	-	P	H
		13347	39.67	-14.33	54	48.73	39.5	18.93	67.49	-	-	A	H
		14491	50.73	-23.27	74	56.79	41.94	19.74	67.74	-	-	P	H
		14491	40.81	-13.19	54	46.87	41.94	19.74	67.74	-	-	A	H
		15646	49.27	-24.73	74	59.67	37.84	20.43	68.67	-	-	P	H
		15646	38.82	-15.18	54	49.22	37.84	20.43	68.67	-	-	A	H
		17325	52.07	-16.13	68.2	57.75	41.36	21.86	68.9	-	-	P	H
		17989	59.88	-14.12	74	58.44	48.53	22.46	69.55	-	-	P	H
		17989	49.97	-4.03	54	48.53	48.53	22.46	69.55	-	-	A	H
													H
		11550	47.46	-26.54	74	57.46	40.04	17.48	67.52	-	-	P	V
		13369	50.37	-23.63	74	59.31	39.56	18.95	67.45	-	-	P	V
		13369	40.96	-13.04	54	49.9	39.56	18.95	67.45	-	-	A	V
		14491	51.11	-22.89	74	57.16	41.95	19.74	67.74	-	-	P	V
		14491	41.94	-12.06	54	47.99	41.95	19.74	67.74	-	-	A	V
		15448	48.36	-25.64	74	58.57	38.72	20.32	69.25	-	-	P	V
		15448	38.76	-15.24	54	48.97	38.72	20.32	69.25	-	-	A	V
		17325	51.8	-16.4	68.2	57.3	41.54	21.86	68.9	-	-	P	V
		17967	59.59	-14.41	74	58.66	48.29	22.44	69.8	-	-	P	V
		17967	49.46	-4.54	54	48.53	48.29	22.44	69.8	-	-	A	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

Emission above 18GHz

5GHz WIFI 802.11ac VHT40 (SHF @ 1m)

[illegible]

Emission below 1GHz

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT40 LF		38.73	26.7	-13.3	40	37.75	20.36	1.03	32.44	-	-	P	H
		125.06	23.7	-19.8	43.5	36.81	17.5	1.79	32.4	-	-	P	H
		375.32	17.77	-28.23	46	25.8	21.21	3.24	32.48	201	133	Q	H
		624.61	38.69	-7.31	46	41.26	25.98	4.04	32.59	-	-	P	H
		749.74	36.83	-9.17	46	36.57	28.1	4.54	32.38	-	-	P	H
		874.87	32.47	-13.53	46	30.1	29.2	4.95	31.78	100	55	Q	H
													H
													H
													H
													H
													H
													H
		37.76	31.21	-8.79	40	41.7	20.94	1.01	32.44	142	23	Q	V
		98.87	25.38	-18.12	43.5	40.2	15.89	1.7	32.41	-	-	P	V
		375.32	37.41	-8.59	46	45.44	21.21	3.24	32.48	-	-	P	V
		624.61	39.78	-6.22	46	42.35	25.98	4.04	32.59	-	-	P	V
		752.65	38.65	-7.35	46	38.32	28.15	4.55	32.37	-	-	P	V
		874.87	29.56	-16.44	46	27.19	29.2	4.95	31.78	129	85	Q	V
													V
													V
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													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.												



<Sample 2>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5609.6	53.21	-14.99	68.2	39.96	32	11.63	30.38	263	224	P	H
		5697	67.44	-35.55	102.99	54.19	31.98	11.69	30.42	263	224	P	H
		5716	73.78	-35.9	109.68	60.47	32.03	11.7	30.42	263	224	P	H
		5725	82.08	-40.12	122.2	68.72	32.07	11.71	30.42	263	224	P	H
		4882	54.09	-19.91	74	42.31	31.45	10.74	30.41	-	-	P	H
		4882	44.32	-9.68	54	32.54	31.45	10.74	30.41	-	-	A	H
		5398	54.59	-19.41	74	41.94	31.71	11.29	30.35	-	-	P	H
		5398	45.36	-8.64	54	32.71	31.71	11.29	30.35	-	-	A	H
	*	5745	108.58	-	-	95.14	32.14	11.72	30.42	263	224	P	H
	*	5745	101.15	-	-	87.71	32.14	11.72	30.42	263	224	A	H
		5646.6	59.29	-8.91	68.2	46.12	31.92	11.65	30.4	105	193	P	V
		5697.2	73.28	-29.86	103.14	60.04	31.97	11.69	30.42	105	193	P	V
		5717	82.61	-27.35	109.96	69.3	32.03	11.7	30.42	105	193	P	V
		5723.4	88.72	-29.83	118.55	75.38	32.05	11.71	30.42	105	193	P	V
		5020	58.78	-15.22	74	46.3	31.86	11	30.38	-	-	P	V
		5020	47.69	-6.31	54	35.21	31.86	11	30.38	-	-	A	V
		5392	57.92	-16.08	74	45.35	31.64	11.28	30.35	-	-	P	V
		5392	47.76	-6.24	54	35.19	31.64	11.28	30.35	-	-	A	V
	*	5745	117.18	-	-	103.76	32.12	11.72	30.42	105	193	P	V
	*	5745	109.27	-	-	95.85	32.12	11.72	30.42	105	193	A	V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5601.2	53.43	-14.77	68.2	40.19	32	11.62	30.38	251	225	P	H
		5696	54.78	-47.47	102.25	41.53	31.98	11.69	30.42	251	225	P	H
		5710.4	57.78	-50.33	108.11	44.49	32.01	11.7	30.42	251	225	P	H
		5724.4	60.62	-60.21	120.83	47.27	32.06	11.71	30.42	251	225	P	H
		4834	54.73	-19.27	74	43.03	31.49	10.63	30.42	-	-	P	H
		4834	44.51	-9.49	54	32.81	31.49	10.63	30.42	-	-	A	H
		5404	54.73	-19.27	74	42.05	31.73	11.3	30.35	-	-	P	H
		5404	45.84	-8.16	54	33.16	31.73	11.3	30.35	-	-	A	H
	*	5785	107.92	-	-	94.33	32.27	11.75	30.43	251	225	P	H
	*	5785	100.56	-	-	86.97	32.27	11.75	30.43	251	225	A	H
		5851	62.13	-57.79	119.92	48.3	32.47	11.83	30.47	251	225	P	H
		5856.4	60	-50.41	110.41	46.17	32.47	11.83	30.47	251	225	P	H
		5877.6	57.17	-46.1	103.27	43.33	32.47	11.86	30.49	251	225	P	H
		5941.6	54.45	-13.75	68.2	40.44	32.58	11.94	30.51	251	225	P	H
		5608.6	56.46	-11.74	68.2	43.3	31.91	11.63	30.38	101	194	P	V
		5697.2	60.32	-42.82	103.14	47.08	31.97	11.69	30.42	101	194	P	V
		5717	66.35	-43.61	109.96	53.04	32.03	11.7	30.42	101	194	P	V
		5721.6	68.46	-45.99	114.45	55.12	32.05	11.71	30.42	101	194	P	V
		5062	58.99	-15.01	74	46.37	31.97	11.03	30.38	-	-	P	V
		5062	48.03	-5.97	54	35.41	31.97	11.03	30.38	-	-	A	V
		5422	57.4	-16.6	74	44.69	31.73	11.33	30.35	-	-	P	V
		5422	47.62	-6.38	54	34.91	31.73	11.33	30.35	-	-	A	V
	*	5785	116.34	-	-	102.75	32.27	11.75	30.43	101	194	P	V
	*	5785	109.02	-	-	95.43	32.27	11.75	30.43	101	194	A	V
		5852.2	69.94	-47.24	117.18	56.1	32.48	11.83	30.47	101	194	P	V
		5863.2	67.37	-41.13	108.5	53.52	32.49	11.84	30.48	101	194	P	V
		5882.6	66.44	-33.12	99.56	52.55	32.51	11.87	30.49	101	194	P	V
		5926	58.1	-10.1	68.2	44.13	32.56	11.92	30.51	101	194	P	V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5086	55.51	-18.49	74	42.75	32.09	11.04	30.37	-	-	P	H
		5086	45.57	-8.43	54	32.81	32.09	11.04	30.37	-	-	A	H
		5458	54.13	-19.87	74	41.24	31.86	11.39	30.36	-	-	P	H
		5458	45.67	-8.33	54	32.78	31.86	11.39	30.36	-	-	A	H
	*	5825	108.58	-	-	94.84	32.4	11.79	30.45	334	221	P	H
	*	5825	100.41	-	-	86.67	32.4	11.79	30.45	334	221	A	H
		5850.2	76.01	-45.73	121.74	62.18	32.47	11.83	30.47	334	221	P	H
		5855	72.72	-38.08	110.8	58.89	32.47	11.83	30.47	334	221	P	H
		5878.6	65.67	-36.86	102.53	51.83	32.47	11.86	30.49	334	221	P	H
		5927.8	56.15	-12.05	68.2	42.18	32.55	11.93	30.51	334	221	P	H
		5092	57.98	-16.02	74	45.3	32	11.05	30.37	-	-	P	V
		5092	47.49	-6.51	54	34.81	32	11.05	30.37	-	-	A	V
		5446	56.98	-17.02	74	44.16	31.81	11.37	30.36	-	-	P	V
		5446	46.01	-7.99	54	33.19	31.81	11.37	30.36	-	-	A	V
	*	5825	117.11	-	-	103.37	32.4	11.79	30.45	170	210	P	V
	*	5825	109.18	-	-	95.44	32.4	11.79	30.45	170	210	A	V
		5851.8	86.22	-31.88	118.1	72.39	32.47	11.83	30.47	170	210	P	V
		5861.6	82.9	-26.05	108.95	69.05	32.49	11.84	30.48	170	210	P	V
		5875.2	76.92	-28.13	105.05	63.05	32.5	11.86	30.49	170	210	P	V
		5938	64.75	-3.45	68.2	50.74	32.58	11.94	30.51	170	210	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	56.73	-17.27	74	66.38	40.16	17.93	67.74	223	46	P	H
		11490	48.88	-5.12	54	58.53	40.16	17.93	67.74	223	46	A	H
		12401	49.08	-24.92	74	59.26	38.56	18.79	67.53	-	-	P	H
		12401	38.55	-15.45	54	48.73	38.56	18.79	67.53	-	-	A	H
		14491	51.88	-22.12	74	57.58	41.94	20.34	67.98	-	-	P	H
		14491	42.08	-11.92	54	47.78	41.94	20.34	67.98	-	-	A	H
		17235	50.19	-18.01	68.2	56.59	40.73	21.58	68.71	-	-	P	H
		17989	58.47	-15.53	74	57.86	48.53	21.93	69.85	-	-	P	H
		17989	49.13	-4.87	54	48.52	48.53	21.93	69.85	-	-	A	H
													H
													H
													H
		7660	58.66	-15.34	74	74.53	36.26	14.54	66.67	142	353	P	V
		7660	52.91	-1.09	54	68.78	36.26	14.54	66.67	142	353	A	V
		11490	56.63	-17.37	74	66.36	40.08	17.93	67.74	317	8	P	V
		11490	46	-8	54	55.73	40.08	17.93	67.74	317	8	A	V
		12566	49.93	-24.07	74	59.35	38.41	18.93	66.76	-	-	P	V
		12566	38.82	-15.18	54	48.24	38.41	18.93	66.76	-	-	A	V
		14490	51.06	-22.94	74	56.76	41.94	20.34	67.98	-	-	P	V
		14490	41.79	-12.21	54	47.49	41.94	20.34	67.98	-	-	A	V
		17235	50.98	-17.22	68.2	57.18	40.93	21.58	68.71	-	-	P	V
		18000	59.26	-14.74	74	57.99	49.04	21.95	69.72	-	-	P	V
		18000	49.66	-4.34	54	48.39	49.04	21.95	69.72	-	-	A	V
													V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		7715	51.84	-22.16	74	68.06	36.19	14.58	66.99	381	307	P	H
		7715	46.38	-7.62	54	62.6	36.19	14.58	66.99	381	307	A	H
		11235	49.51	-24.49	74	60.43	39.72	17.67	68.31	-	-	P	H
		11235	37.8	-16.2	54	48.72	39.72	17.67	68.31	-	-	A	H
		11570	47.71	-26.29	74	57.28	40.04	18.01	67.62	-	-	P	H
		14491	51.01	-22.99	74	56.71	41.94	20.34	67.98	-	-	P	H
		14491	41.98	-12.02	54	47.68	41.94	20.34	67.98	-	-	A	H
		17355	51.2	-17	68.2	57.12	41.6	21.64	69.16	-	-	P	H
		18000	58.41	-15.59	74	57.36	48.82	21.95	69.72	-	-	P	H
		18000	49.33	-4.67	54	48.28	48.82	21.95	69.72	-	-	A	H
													H
													H
		7715	58.34	-15.66	74	74.54	36.21	14.58	66.99	133	350	P	V
		7715	53.67	-0.33	54	69.87	36.21	14.58	66.99	133	350	A	V
		10938	49.18	-24.82	74	60.16	40.1	17.36	68.44	-	-	P	V
		10938	38.01	-15.99	54	48.99	40.1	17.36	68.44	-	-	A	V
		11570	47.93	-26.07	74	57.53	40.01	18.01	67.62	-	-	P	V
		14491	50.11	-23.89	74	55.8	41.95	20.34	67.98	-	-	P	V
		14491	42.09	-11.91	54	47.78	41.95	20.34	67.98	-	-	A	V
		17355	50.77	-17.43	68.2	56.51	41.78	21.64	69.16	-	-	P	V
		18000	58.29	-15.71	74	57.02	49.04	21.95	69.72	-	-	P	V
		18000	49.76	-4.24	54	48.49	49.04	21.95	69.72	-	-	A	V
													V
													V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		7770	54.79	-13.41	68.2	71.16	36.32	14.62	67.31	377	310	P	H
		11180	49.29	-24.71	74	60.17	39.75	17.61	68.24	-	-	P	H
		11180	38.22	-15.78	54	49.1	39.75	17.61	68.24	-	-	A	H
		11650	47.87	-26.13	74	57.63	39.74	18.09	67.59	-	-	P	H
		14491	50.71	-23.29	74	56.41	41.94	20.34	67.98	-	-	P	H
		14491	41.76	-12.24	54	47.46	41.94	20.34	67.98	-	-	A	H
		17475	51.74	-16.46	68.2	56.99	42.53	21.69	69.47	-	-	P	H
		17989	57.92	-16.08	74	57.31	48.53	21.93	69.85	-	-	P	H
		17989	48.86	-5.14	54	48.25	48.53	21.93	69.85	-	-	A	H
													H
													H
													H
		7275	55.02	-18.98	74	71.29	36.25	14.11	66.63	237	360	P	V
		7275	46.27	-7.73	54	62.54	36.25	14.11	66.63	237	360	A	V
		7770	61.6	-6.6	68.2	78	36.29	14.62	67.31	113	350	P	V
		11224	48.71	-25.29	74	59.7	39.65	17.66	68.3	-	-	P	V
		11224	37.69	-16.31	54	48.68	39.65	17.66	68.3	-	-	A	V
		11650	47.84	-26.16	74	57.59	39.75	18.09	67.59	-	-	P	V
		14480	50.27	-23.73	74	55.98	41.92	20.34	67.97	-	-	P	V
		14480	42.09	-11.91	54	47.8	41.92	20.34	67.97	-	-	A	V
		17475	51.63	-16.57	68.2	56.69	42.72	21.69	69.47	-	-	P	V
		17989	59.14	-14.86	74	58.27	48.79	21.93	69.85	-	-	P	V
		17989	49.1	-4.9	54	48.23	48.79	21.93	69.85	-	-	A	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 149 5745MHz		5604.4	54.14	-14.06	68.2	40.9	32	11.62	30.38	400	224	P	H
		5699.6	65.7	-39.21	104.91	52.45	31.98	11.69	30.42	400	224	P	H
		5719.8	79.05	-31.69	110.74	65.72	32.05	11.7	30.42	400	224	P	H
		5725	85.75	-36.45	122.2	72.39	32.07	11.71	30.42	400	224	P	H
		5092	55.5	-18.5	74	42.7	32.12	11.05	30.37	-	-	P	H
		5092	45.24	-8.76	54	32.44	32.12	11.05	30.37	-	-	A	H
		5410	53.58	-20.42	74	40.88	31.74	11.31	30.35	-	-	P	H
		5410	45.49	-8.51	54	32.79	31.74	11.31	30.35	-	-	A	H
	*	5745	106.48	-	-	93.04	32.14	11.72	30.42	400	224	P	H
	*	5745	100.07	-	-	86.63	32.14	11.72	30.42	400	224	A	H
		5649.4	61.59	-6.61	68.2	48.42	31.92	11.65	30.4	100	203	P	V
		5699.2	76.31	-28.3	104.61	63.06	31.98	11.69	30.42	100	203	P	V
		5720	90.53	-20.27	110.8	77.21	32.04	11.7	30.42	100	203	P	V
		5725	93.17	-29.03	122.2	79.82	32.06	11.71	30.42	100	203	P	V
		5026	57.63	-16.37	74	45.12	31.88	11.01	30.38	-	-	P	V
		5026	48.61	-5.39	54	36.1	31.88	11.01	30.38	-	-	A	V
		5392	57.69	-16.31	74	45.12	31.64	11.28	30.35	-	-	P	V
		5392	48.36	-5.64	54	35.79	31.64	11.28	30.35	-	-	A	V
	*	5745	114.86	-	-	101.44	32.12	11.72	30.42	100	203	P	V
	*	5745	108	-	-	94.58	32.12	11.72	30.42	100	203	A	V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 157 5785MHz		5609.6	53.51	-14.69	68.2	40.26	32	11.63	30.38	288	152	P	H
		5697.6	54.54	-48.89	103.43	41.29	31.98	11.69	30.42	288	152	P	H
		5718	60.68	-49.56	110.24	47.36	32.04	11.7	30.42	288	152	P	H
		5722.4	61.78	-54.49	116.27	48.43	32.06	11.71	30.42	288	152	P	H
		4846	54.73	-19.27	74	43.01	31.48	10.66	30.42	-	-	P	H
		4846	44.43	-9.57	54	32.71	31.48	10.66	30.42	-	-	A	H
		5446	54.95	-19.05	74	42.11	31.83	11.37	30.36	-	-	P	H
		5446	45.95	-8.05	54	33.11	31.83	11.37	30.36	-	-	A	H
	*	5785	107.31	-	-	93.72	32.27	11.75	30.43	288	152	P	H
	*	5785	100.25	-	-	86.66	32.27	11.75	30.43	288	152	A	H
		5853	61.03	-54.33	115.36	47.2	32.47	11.83	30.47	288	152	P	H
		5858.2	62.22	-47.68	109.9	48.38	32.47	11.84	30.47	288	152	P	H
		5888	59.17	-36.38	95.55	45.32	32.47	11.87	30.49	288	152	P	H
		5938.2	53.84	-14.36	68.2	39.83	32.58	11.94	30.51	288	152	P	H
		5639	56.49	-11.71	68.2	43.33	31.91	11.65	30.4	100	195	P	V
		5697.4	60.69	-42.59	103.28	47.45	31.97	11.69	30.42	100	195	P	V
		5717.8	67.03	-43.15	110.18	53.72	32.03	11.7	30.42	100	195	P	V
		5722.8	70.58	-46.6	117.18	57.24	32.05	11.71	30.42	100	195	P	V
		5062	58.39	-15.61	74	45.77	31.97	11.03	30.38	-	-	P	V
		5062	47.91	-6.09	54	35.29	31.97	11.03	30.38	-	-	A	V
		5452	57.41	-16.59	74	44.56	31.83	11.38	30.36	-	-	P	V
		5452	48.75	-5.25	54	35.9	31.83	11.38	30.36	-	-	A	V
	*	5785	116.21	-	-	102.62	32.27	11.75	30.43	100	195	P	V
	*	5785	109.02	-	-	95.43	32.27	11.75	30.43	100	195	A	V
		5852	70.06	-47.58	117.64	56.22	32.48	11.83	30.47	100	195	P	V
		5858	69.6	-40.36	109.96	55.75	32.48	11.84	30.47	100	195	P	V
		5887.4	66.45	-29.54	95.99	52.56	32.51	11.87	30.49	100	195	P	V
		5925.6	60.62	-7.58	68.2	46.65	32.56	11.92	30.51	100	195	P	V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 165 5825MHz		5098	54.29	-19.71	74	41.45	32.16	11.05	30.37	-	-	P	H
		5098	45.3	-8.7	54	32.46	32.16	11.05	30.37	-	-	A	H
		5428	53.65	-20.35	74	40.88	31.79	11.34	30.36	-	-	P	H
		5428	45.6	-8.4	54	32.83	31.79	11.34	30.36	-	-	A	H
	*	5825	105.39	-	-	91.65	32.4	11.79	30.45	285	152	P	H
	*	5825	99.43	-	-	85.69	32.4	11.79	30.45	285	152	A	H
		5850	79.21	-42.99	122.2	65.38	32.47	11.83	30.47	285	152	P	H
		5855	74.42	-36.38	110.8	60.59	32.47	11.83	30.47	285	152	P	H
		5875.2	65.82	-39.23	105.05	51.98	32.47	11.86	30.49	285	152	P	H
		5926	56.13	-12.07	68.2	42.18	32.54	11.92	30.51	285	152	P	H
		5104	60.89	-13.11	74	48.2	32.01	11.05	30.37	-	-	P	V
		5104	49.68	-4.32	54	36.99	32.01	11.05	30.37	-	-	A	V
		5434	56.63	-17.37	74	43.87	31.77	11.35	30.36	-	-	P	V
		5434	46	-8	54	33.24	31.77	11.35	30.36	-	-	A	V
	*	5825	114.41	-	-	100.67	32.4	11.79	30.45	100	196	P	V
	*	5825	107.66	-	-	93.92	32.4	11.79	30.45	100	196	A	V
		5850	86.11	-36.09	122.2	72.28	32.47	11.83	30.47	100	196	P	V
		5858.8	85.89	-23.84	109.73	72.05	32.48	11.84	30.48	100	196	P	V
		5882.8	77.51	-21.9	99.41	63.62	32.51	11.87	30.49	100	196	P	V
		5937.4	65.65	-2.55	68.2	51.64	32.58	11.94	30.51	100	196	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 149 5745MHz		11257	49.2	-24.8	74	60.11	39.73	17.69	68.33	-	-	P	H
		11257	37.9	-16.1	54	48.81	39.73	17.69	68.33	-	-	A	H
		11490	56.81	-17.19	74	66.46	40.16	17.93	67.74	216	44	P	H
		11490	47.7	-6.3	54	57.35	40.16	17.93	67.74	216	44	A	H
		14480	50.18	-23.82	74	55.86	41.95	20.34	67.97	-	-	P	H
		14480	41.97	-12.03	54	47.65	41.95	20.34	67.97	-	-	A	H
		17235	49.65	-18.55	68.2	56.05	40.73	21.58	68.71	-	-		H
		18000	58.36	-15.64	74	57.31	48.82	21.95	69.72	-	-	P	H
		18000	49.6	-4.4	54	48.55	48.82	21.95	69.72	-	-	A	H
													H
													H
													H
		7660	57.27	-16.73	74	73.14	36.26	14.54	66.67	117	348	P	V
		7660	52.09	-1.91	54	67.96	36.26	14.54	66.67	117	348	A	V
		11158	48.87	-25.13	74	59.71	39.79	17.58	68.21	-	-	P	V
		11158	37.88	-16.12	54	48.72	39.79	17.58	68.21	-	-	A	V
		11490	54.28	-19.72	74	64.01	40.08	17.93	67.74	290	2	P	V
		11490	45.17	-8.83	54	54.9	40.08	17.93	67.74	290	2	A	V
		14491	51.01	-22.99	74	56.7	41.95	20.34	67.98	-	-	P	V
		14491	41.86	-12.14	54	47.55	41.95	20.34	67.98	-	-	A	V
		17235	50.29	-17.91	68.2	56.49	40.93	21.58	68.71	-	-	P	V
		18000	59.08	-14.92	74	57.81	49.04	21.95	69.72	-	-	P	V
		18000	49.86	-4.14	54	48.59	49.04	21.95	69.72	-	-	A	V
													V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 157 5785MHz		7715	54.43	-19.57	74	70.65	36.19	14.58	66.99	389	308	P	H
		7715	48.45	-5.55	54	64.67	36.19	14.58	66.99	389	308	A	H
		10949	48.73	-25.27	74	59.59	40.17	17.37	68.4	-	-	P	H
		10949	38.33	-15.67	54	49.19	40.17	17.37	68.4	-	-	A	H
		11570	47.94	-26.06	74	57.51	40.04	18.01	67.62	-	-	P	H
		14491	52.2	-21.8	74	57.9	41.94	20.34	67.98	-	-	P	H
		14491	41.9	-12.1	54	47.6	41.94	20.34	67.98	-	-	A	H
		17355	50.88	-17.32	68.2	56.8	41.6	21.64	69.16	-	-	P	H
		17989	57.81	-16.19	74	57.2	48.53	21.93	69.85	-	-	P	H
		17989	49.04	-4.96	54	48.43	48.53	21.93	69.85	-	-	A	H
													H
													H
		7715	59.17	-14.83	74	75.37	36.21	14.58	66.99	123	349	P	V
		7715	53.29	-0.71	54	69.49	36.21	14.58	66.99	123	349	A	V
		10894	48.71	-25.29	74	59.98	40.02	17.31	68.6	-	-	P	V
		10894	37.94	-16.06	54	49.21	40.02	17.31	68.6	-	-	A	V
		11570	47.97	-26.03	74	57.57	40.01	18.01	67.62	-	-	P	V
		14480	50.47	-23.53	74	56.18	41.92	20.34	67.97	-	-	P	V
		14480	41.83	-12.17	54	47.54	41.92	20.34	67.97	-	-	A	V
		17355	51.3	-16.9	68.2	57.04	41.78	21.64	69.16	-	-	P	V
		17978	57.84	-16.16	74	57.35	48.54	21.93	69.98	-	-	P	V
		17978	49.01	-4.99	54	48.52	48.54	21.93	69.98	-	-	A	V
													V
													V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 165 5825MHz		7770	55.43	-12.77	68.2	71.8	36.32	14.62	67.31	382	308	P	H
		11389	49.45	-24.55	74	59.75	39.98	17.82	68.1	-	-	P	H
		11389	38.63	-15.37	54	48.93	39.98	17.82	68.1	-	-	A	H
		11650	47.84	-26.16	74	57.6	39.74	18.09	67.59	-	-	P	H
		14480	50.16	-23.84	74	55.84	41.95	20.34	67.97	-	-	P	H
		14480	42.12	-11.88	54	47.8	41.95	20.34	67.97	-	-	A	H
		17475	52.23	-15.97	68.2	57.48	42.53	21.69	69.47	-	-	P	H
		17989	58.04	-15.96	74	57.43	48.53	21.93	69.85	-	-	P	H
		17989	49.27	-4.73	54	48.66	48.53	21.93	69.85	-	-	A	H
													H
													H
													H
		7286	54.48	-19.52	74	70.81	36.29	14.13	66.75	233	360	P	V
		7286	46.45	-7.55	54	62.78	36.29	14.13	66.75	233	360	A	V
		7770	60.99	-7.21	68.2	77.39	36.29	14.62	67.31	112	352	P	V
		11037	49.15	-24.85	74	59.84	40.02	17.46	68.17	-	-	P	V
		11037	38.44	-15.56	54	49.13	40.02	17.46	68.17	-	-	A	V
		11650	47.89	-26.11	74	57.64	39.75	18.09	67.59	-	-	P	V
		14491	50.8	-23.2	74	56.49	41.95	20.34	67.98	-	-	P	V
		14491	41.86	-12.14	54	47.55	41.95	20.34	67.98	-	-	A	V
		17475	51.77	-16.43	68.2	56.83	42.72	21.69	69.47	-	-	P	V
		18000	58.04	-15.96	74	56.77	49.04	21.95	69.72	-	-	P	V
		18000	49.77	-4.23	54	48.5	49.04	21.95	69.72	-	-	A	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		5647.6	60.97	-7.23	68.2	47.76	31.96	11.65	30.4	300	151	P	H
		5698	74.1	-29.63	103.73	60.85	31.98	11.69	30.42	300	151	P	H
		5713.2	84.31	-24.59	108.9	71.01	32.02	11.7	30.42	300	151	P	H
		5723.2	85.15	-32.95	118.1	71.8	32.06	11.71	30.42	300	151	P	H
		5128	55.23	-18.77	74	42.43	32.09	11.07	30.36	-	-	P	H
		5128	45.55	-8.45	54	32.75	32.09	11.07	30.36	-	-	A	H
		5452	54.83	-19.17	74	41.96	31.85	11.38	30.36	-	-	P	H
		5452	46.13	-7.87	54	33.26	31.85	11.38	30.36	-	-	A	H
	*	5755	103.85	-	-	90.37	32.17	11.73	30.42	300	151	P	H
	*	5755	97.46	-	-	83.98	32.17	11.73	30.42	300	151	A	H
		5854	64.5	-48.58	113.08	50.67	32.47	11.83	30.47	300	151	P	H
		5862.6	62.93	-45.74	108.67	49.1	32.47	11.84	30.48	300	151	P	H
		5879.4	61.6	-40.33	101.93	47.76	32.47	11.86	30.49	300	151	P	H
		5939.6	55.27	-12.93	68.2	41.26	32.58	11.94	30.51	300	151	P	H
		5643.8	66.63	-1.57	68.2	53.46	31.92	11.65	30.4	100	183	P	V
		5699.8	81.28	-23.77	105.05	68.03	31.98	11.69	30.42	100	183	P	V
		5718.4	93.18	-17.17	110.35	79.86	32.04	11.7	30.42	100	183	P	V
		5724	92.37	-27.55	119.92	79.03	32.05	11.71	30.42	100	183	P	V
		5020	57.92	-16.08	74	45.44	31.86	11	30.38	-	-	P	V
		5020	50.59	-3.41	54	38.11	31.86	11	30.38	-	-	A	V
		5452	57.28	-16.72	74	44.43	31.83	11.38	30.36	-	-	P	V
		5452	50.06	-3.94	54	37.21	31.83	11.38	30.36	-	-	A	V
	*	5755	112.26	-	-	98.79	32.16	11.73	30.42	100	183	P	V
	*	5755	106.15	-	-	92.68	32.16	11.73	30.42	100	183	A	V
		5850	71.86	-50.34	122.2	58.03	32.47	11.83	30.47	100	183	P	V
		5859	71.72	-37.96	109.68	57.88	32.48	11.84	30.48	100	183	P	V
		5884.4	69.22	-29	98.22	55.33	32.51	11.87	30.49	100	183	P	V
		5928.8	62.39	-5.81	68.2	48.4	32.57	11.93	30.51	100	183	P	V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 159 5795MHz		5621.2	54.24	-13.96	68.2	41.01	31.99	11.63	30.39	300	227	P	H
		5698	58.02	-45.71	103.73	44.77	31.98	11.69	30.42	300	227	P	H
		5718.6	63.73	-46.68	110.41	50.41	32.04	11.7	30.42	300	227	P	H
		5722.8	64.06	-53.12	117.18	50.71	32.06	11.71	30.42	300	227	P	H
		5146	55.02	-18.98	74	42.25	32.04	11.08	30.35	-	-	P	H
		5146	45.31	-8.69	54	32.54	32.04	11.08	30.35	-	-	A	H
		5428	54.93	-19.07	74	42.16	31.79	11.34	30.36	-	-	P	H
		5428	45.65	-8.35	54	32.88	31.79	11.34	30.36	-	-	A	H
	*	5795	105	-	-	91.37	32.31	11.76	30.44	300	227	P	H
	*	5795	97.75	-	-	84.12	32.31	11.76	30.44	300	227	A	H
		5853.8	71.87	-41.67	113.54	58.04	32.47	11.83	30.47	300	227	P	H
		5858.4	70.36	-39.49	109.85	56.53	32.47	11.84	30.48	300	227	P	H
		5884.2	65.07	-33.3	98.37	51.22	32.47	11.87	30.49	300	227	P	H
		5929	58.5	-9.7	68.2	44.53	32.55	11.93	30.51	300	227	P	H
		5606.6	60.84	-7.36	68.2	47.69	31.91	11.62	30.38	100	207	P	V
		5698.2	66.21	-37.66	103.87	52.97	31.97	11.69	30.42	100	207	P	V
		5717.8	71.24	-38.94	110.18	57.93	32.03	11.7	30.42	100	207	P	V
		5721.6	72.11	-42.34	114.45	58.77	32.05	11.71	30.42	100	207	P	V
		5056	57.44	-16.56	74	44.84	31.96	11.02	30.38	-	-	P	V
		5056	47.92	-6.08	54	35.32	31.96	11.02	30.38	-	-	A	V
		5452	57.64	-16.36	74	44.79	31.83	11.38	30.36	-	-	P	V
		5452	49.55	-4.45	54	36.7	31.83	11.38	30.36	-	-	A	V
	*	5795	113.1	-	-	99.47	32.31	11.76	30.44	100	207	P	V
	*	5795	105.65	-	-	92.02	32.31	11.76	30.44	100	207	A	V
		5854.2	81.7	-30.92	112.62	67.86	32.48	11.83	30.47	100	207	P	V
		5863.6	79.51	-28.88	108.39	65.66	32.49	11.84	30.48	100	207	P	V
		5875.2	77.98	-27.07	105.05	64.11	32.5	11.86	30.49	100	207	P	V
		5928	67.42	-0.78	68.2	53.44	32.56	11.93	30.51	100	207	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		7671	51.32	-22.68	74	67.32	36.19	14.54	66.73	395	311	P	H
		7671	46.88	-7.12	54	62.88	36.19	14.54	66.73	395	311	A	H
		11048	49.58	-24.42	74	60.15	40.1	17.47	68.14	-	-	P	H
		11048	38.62	-15.38	54	49.19	40.1	17.47	68.14	-	-	A	H
		11510	47.89	-26.11	74	57.49	40.15	17.95	67.7	-	-	P	H
		14480	51.05	-22.95	74	56.73	41.95	20.34	67.97	-	-	P	H
		14480	42.02	-11.98	54	47.7	41.95	20.34	67.97	-	-	A	H
		17265	51.35	-16.85	68.2	57.61	40.91	21.59	68.76	-	-	P	H
		17989	59.04	-14.96	74	58.43	48.53	21.93	69.85	-	-	P	H
		17989	49.23	-4.77	54	48.62	48.53	21.93	69.85	-	-	A	H
													H
													H
		7671	57.31	-16.69	74	73.26	36.24	14.54	66.73	101	351	P	V
		7671	53.13	-0.87	54	69.08	36.24	14.54	66.73	101	351	A	V
		10817	49.3	-24.7	74	60.93	39.84	17.23	68.7	-	-	P	V
		10817	37.61	-16.39	54	49.24	39.84	17.23	68.7	-	-	A	V
		11510	47.94	-26.06	74	57.61	40.08	17.95	67.7	-	-	P	V
		14491	51.8	-22.2	74	57.49	41.95	20.34	67.98	-	-	P	V
		14491	41.92	-12.08	54	47.61	41.95	20.34	67.98	-	-	A	V
		17265	50.48	-17.72	68.2	56.53	41.12	21.59	68.76	-	-	P	V
		17989	59.3	-14.7	74	58.43	48.79	21.93	69.85	-	-	P	V
		17989	49.37	-4.63	54	48.5	48.79	21.93	69.85	-	-	A	V
													V
													V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 159 5795MHz		7726	51.45	-22.55	74	67.7	36.22	14.59	67.06	286	308	P	H
		7726	46	-8	54	62.25	36.22	14.59	67.06	286	308	A	H
		11202	49.55	-24.45	74	60.46	39.72	17.64	68.27	-	-	P	H
		11202	37.97	-16.03	54	48.88	39.72	17.64	68.27	-	-	A	H
		11590	48.05	-25.95	74	57.6	40.01	18.03	67.59	-	-	P	H
		14480	51	-23	74	56.68	41.95	20.34	67.97	-	-	P	H
		14480	42	-12	54	47.68	41.95	20.34	67.97	-	-	A	H
		17385	51.38	-16.82	68.2	57.22	41.82	21.65	69.31	-	-	P	H
		17989	58.82	-15.18	74	58.21	48.53	21.93	69.85	-	-	P	H
		17989	49.07	-4.93	54	48.46	48.53	21.93	69.85	-	-	A	H
													H
													H
		7726	57.05	-16.95	74	73.3	36.22	14.59	67.06	128	350	P	V
		7726	52.42	-1.58	54	68.67	36.22	14.59	67.06	128	350	A	V
		10894	48.84	-25.16	74	60.11	40.02	17.31	68.6	-	-	P	V
		10894	37.96	-16.04	54	49.23	40.02	17.31	68.6	-	-	A	V
		11590	48.23	-25.77	74	57.81	39.98	18.03	67.59	-	-	P	V
		14491	51.48	-22.52	74	57.17	41.95	20.34	67.98	-	-	P	V
		14491	42.11	-11.89	54	47.8	41.95	20.34	67.98	-	-	A	V
		17385	51.57	-16.63	68.2	57.21	42.02	21.65	69.31	-	-	P	V
		17989	59.04	-14.96	74	58.17	48.79	21.93	69.85	-	-	P	V
		17989	49.46	-4.54	54	48.59	48.79	21.93	69.85	-	-	A	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5616.2	52.47	-15.73	68.2	38.97	31.99	11.63	30.12	393	42	P	H
		5697	63.49	-39.5	102.99	49.98	31.98	11.69	30.16	393	42	P	H
		5718	65.86	-44.38	110.24	52.28	32.04	11.7	30.16	393	42	P	H
		5722.2	67.6	-48.22	115.82	53.99	32.06	11.71	30.16	393	42	P	H
		4876	52.98	-21.02	74	40.93	31.45	10.72	30.12	-	-	P	H
		4876	44.83	-9.17	54	32.78	31.45	10.72	30.12	-	-	A	H
		5446	53.9	-20.1	74	40.78	31.83	11.37	30.08	-	-	P	H
		5446	46.35	-7.65	54	33.23	31.83	11.37	30.08	-	-	A	H
	*	5775	96.8	-	-	82.99	32.24	11.74	30.17	393	42	P	H
	*	5775	89.98	-	-	76.17	32.24	11.74	30.17	393	42	A	H
		5853.4	64.22	-50.23	114.45	50.1	32.47	11.83	30.18	393	42	P	H
		5857.8	64.68	-45.33	110.01	50.56	32.47	11.84	30.19	393	42	P	H
		5877	59.31	-44.4	103.71	45.19	32.47	11.86	30.21	393	42	P	H
		5949.4	55.05	-13.15	68.2	40.74	32.61	11.95	30.25	393	42	P	H
		5641	58.44	-9.76	68.2	44.99	31.91	11.65	30.11	100	20	P	V
		5686.4	74.43	-20.74	95.17	60.94	31.96	11.68	30.15	100	20	P	V
		5715.8	74.11	-35.52	109.63	60.54	32.03	11.7	30.16	100	20	P	V
		5721.4	73.58	-40.41	113.99	59.99	32.05	11.7	30.16	100	20	P	V
		5038	54.74	-19.26	74	41.89	31.92	11.01	30.08	-	-	P	V
		5038	45.59	-8.41	54	32.74	31.92	11.01	30.08	-	-	A	V
		5446	56.53	-17.47	74	43.43	31.81	11.37	30.08	-	-	P	V
		5446	47.01	-6.99	54	33.91	31.81	11.37	30.08	-	-	A	V
	*	5775	105.39	-	-	91.59	32.23	11.74	30.17	100	20	P	V
	*	5775	98.03	-	-	84.23	32.23	11.74	30.17	100	20	A	V



WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5853	70.33	-45.03	115.36	56.2	32.48	11.83	30.18	100	20	P	V
VHT80		5856.4	73.67	-36.74	110.41	59.55	32.48	11.83	30.19	100	20	P	V
CH 155		5876.6	69.05	-34.96	104.01	54.9	32.5	11.86	30.21	100	20	P	V
5775MHz		5932.2	61.04	-7.16	68.2	46.78	32.57	11.93	30.24	100	20	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 3+4	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
i802.11ac VHT80 CH 155 5775MHz		11550	49.64	-24.36	74	59.62	40.06	17.48	67.52	199	44	P	H
		11550	39.92	-14.08	54	49.9	40.06	17.48	67.52	199	44	A	H
		13259	49.93	-24.07	74	59.74	39.14	18.86	67.81	-	-	P	H
		13259	39.84	-14.16	54	49.65	39.14	18.86	67.81	-	-	A	H
		14491	52.12	-21.88	74	58.18	41.94	19.74	67.74	-	-	P	H
		14491	42.05	-11.95	54	48.11	41.94	19.74	67.74	-	-	A	H
		15789	48.91	-25.09	74	60.06	37.46	20.52	69.13	-	-	P	H
		15789	39.82	-14.18	54	50.97	37.46	20.52	69.13	-	-	A	H
		17325	52.92	-15.28	68.2	58.6	41.36	21.86	68.9	-	-	P	H
		18000	60.82	-13.18	74	58.94	48.82	22.48	69.42	-	-	P	H
		18000	50.4	-3.6	54	48.52	48.82	22.48	69.42	-	-	A	H
		7700	52.03	-21.97	74	68.25	36.19	14.39	66.8	100	351	P	V
		7700	48.37	-5.63	54	64.59	36.19	14.39	66.8	100	351	A	V
		11550	49.04	-24.96	74	59.04	40.04	17.48	67.52	283	5	P	V
		11550	39.39	-14.61	54	49.39	40.04	17.48	67.52	283	5	A	V
		13303	49.44	-24.56	74	58.87	39.31	18.9	67.64	-	-	P	V
		13303	39.52	-14.48	54	48.95	39.31	18.9	67.64	-	-	A	V
		14480	51.85	-22.15	74	57.94	41.92	19.74	67.75	-	-	P	V
		14480	41.12	-12.88	54	47.21	41.92	19.74	67.75	-	-	A	V
		15547	49.1	-24.9	74	59.09	38.26	20.37	68.62	-	-	P	V
		15547	39.51	-14.49	54	49.5	38.26	20.37	68.62	-	-	A	V
		17325	52.8	-15.4	68.2	58.3	41.54	21.86	68.9	-	-	P	V
		17967	60.63	-13.37	74	59.7	48.29	22.44	69.8	-	-	P	V
		17967	50.42	-3.58	54	49.49	48.29	21.76	69.8	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

[illegible]

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		37.76	28.67	-11.33	40	39.16	20.94	1.01	32.44	-	-	P	H
		48.43	28.74	-11.26	40	44.92	15.09	1.16	32.43	-	-	P	H
		138.64	21.85	-21.65	43.5	34.72	17.6	1.93	32.4	-	-	P	H
		375.32	42.37	-3.63	46	50.4	21.21	3.24	32.48	101	200	Q	H
		434.49	38.49	-7.51	46	44.63	22.9	3.48	32.52	-	-	P	H
		874.87	33.27	-12.73	46	30.9	29.2	4.95	31.78	158	53	Q	H
													H
													H
													H
													H
													H
													H
		37.76	33.23	-6.77	40	43.72	20.94	1.01	32.44	-	-	P	V
		62.01	32.12	-7.88	40	51.41	11.8	1.34	32.43	-	-	P	V
		97.9	25.48	-18.02	43.5	40.42	15.78	1.7	32.42	-	-	P	V
		499.48	37.61	-8.39	46	42.44	24.09	3.66	32.58	-	-	P	V
		624.61	38.49	-7.51	46	41.06	25.98	4.04	32.59	-	-	P	V
		874.87	39.14	-6.86	46	36.77	29.2	4.95	31.78	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.												

Note symbol

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



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		11213	48.14	-25.86	74	59.06	39.72	17.65	68.29	-	-	P	H
CH 149		11213	37.67	-16.33	54	48.59	39.72	17.65	68.29	-	-	A	H
5745MHz													

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

For Peak Limit @ 11213MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 39.72(dB/m) + 17.65(dB) + 59.06(dBμV) – 68.29 (dB)
 = 48.14 (dBμV/m)
2. Margin(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 48.14(dBμV/m) – 74(dBμV/m)
 = -25.86(dB)

For Average Limit @ 11213MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 39.72(dB/m) + 17.65(dB) + 48.59(dBμV) – 68.29 (dB)
 = 37.67 (dBμV/m)
2. Margin(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 37.67(dBμV/m) – 54(dBμV/m)
 = -16.33(dB)

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



Appendix C. Radiated Spurious Emission Plots

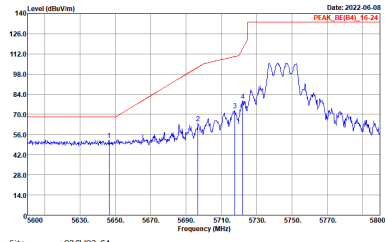
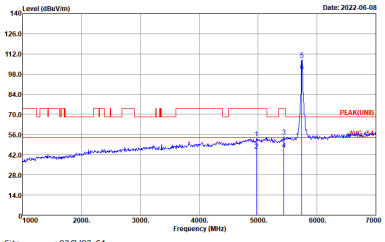
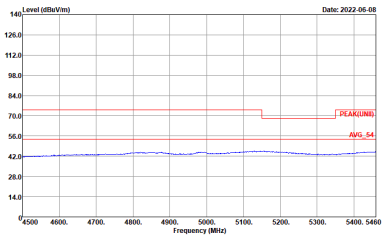
Test Engineer :	Michael Bui, Daniel Lee, Yuan Lee and Fu Chen	Temperature :	20~25°C
		Relative Humidity :	42~50%



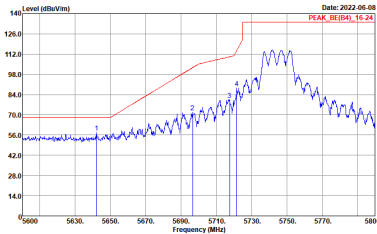
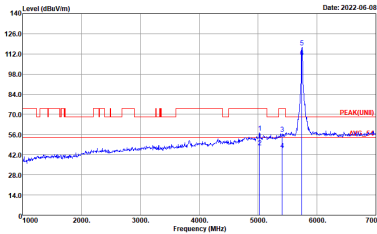
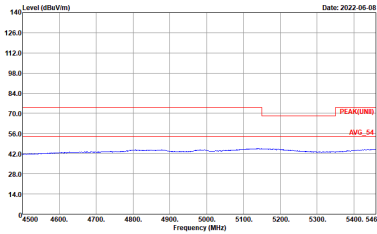
<Sample 1>

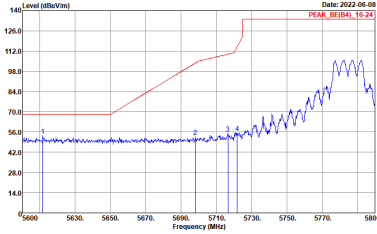
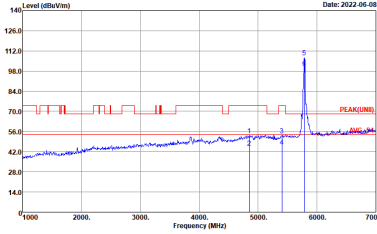
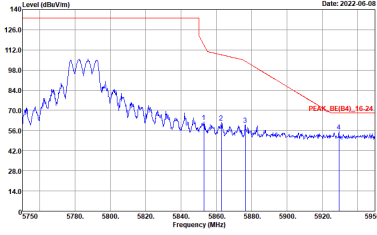
Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

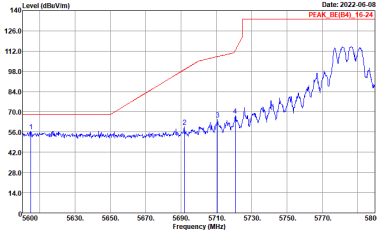
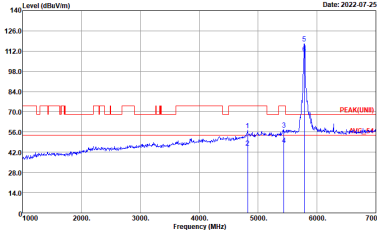
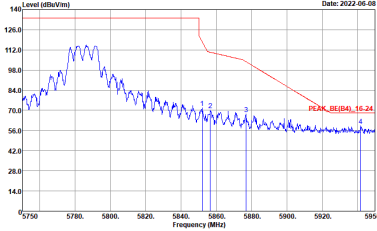
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_RE(64)_16-24 3m HORN-HF_01895_2021 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK_UNB 3m HORN-HF_01895_2021 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH02-CA Condition : PEAK_UNB 3m HORN-HF_01895_2021 HORIZONTAL



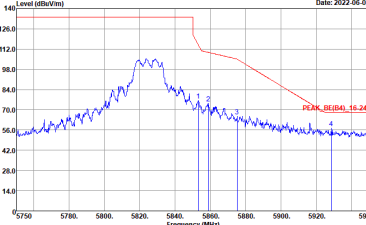
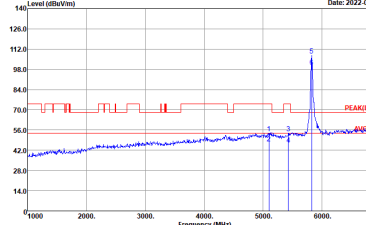
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_REGION: 16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH402-CA Condition : PEAK(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

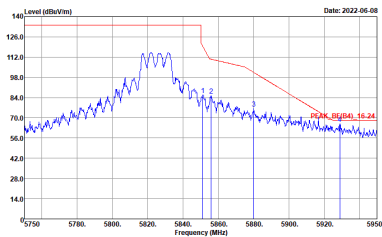
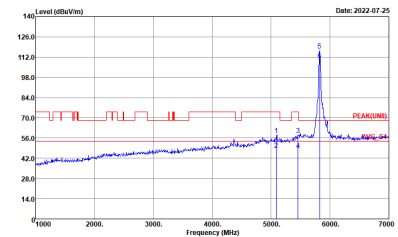


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH402-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



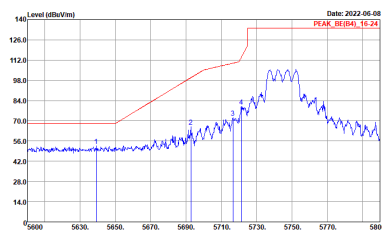
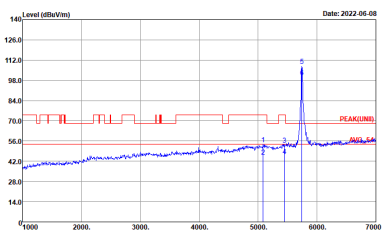
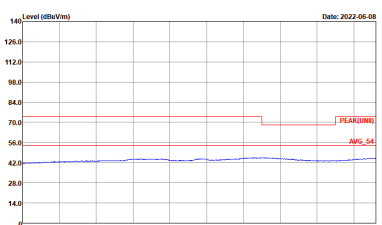
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



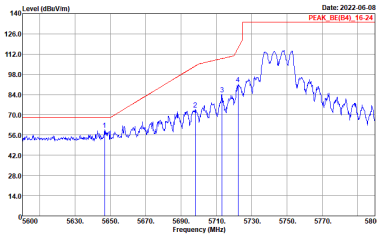
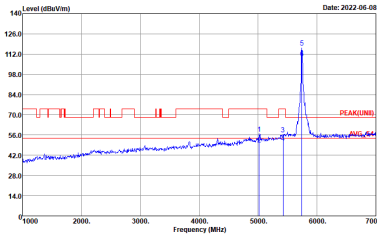
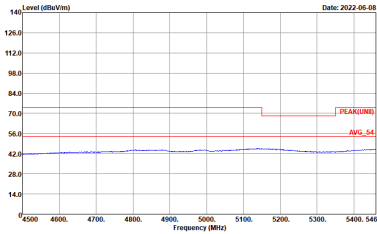
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNB) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH02-CA Condition : PEAK(UNB) 3m HORN-HF_01895_2021 HORIZONTAL

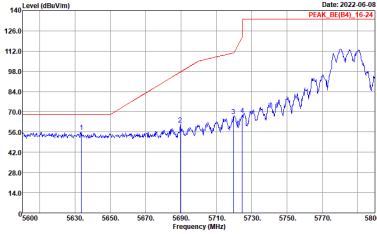
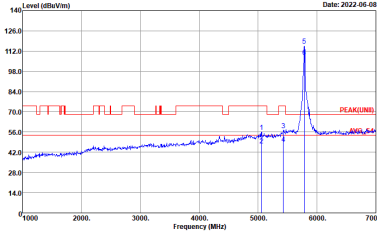
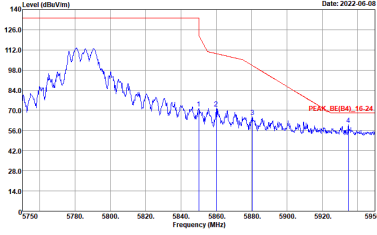


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak Avg.	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

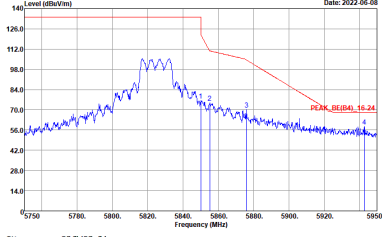
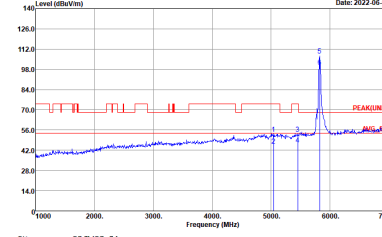


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH402-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

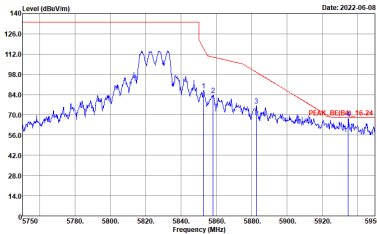
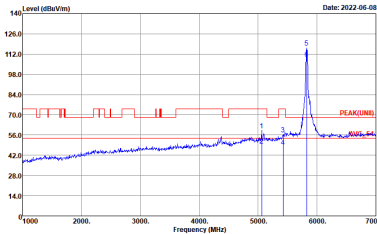


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto



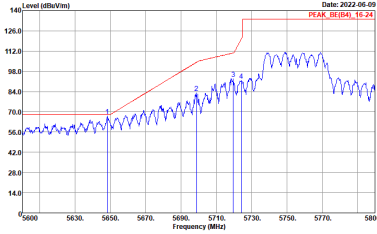
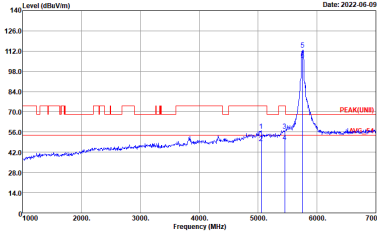
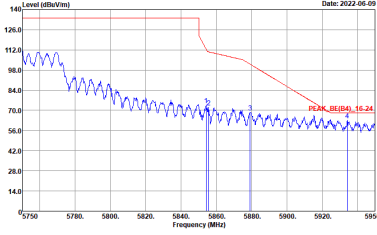
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak Avg.	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



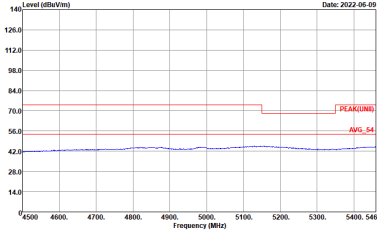
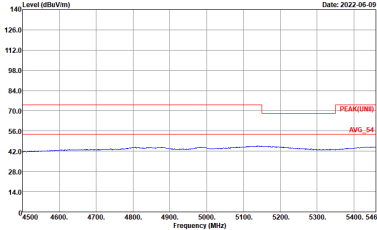
Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

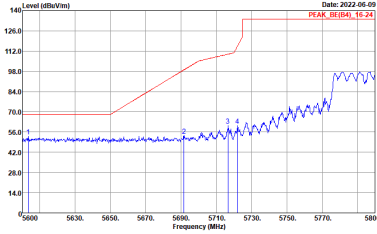
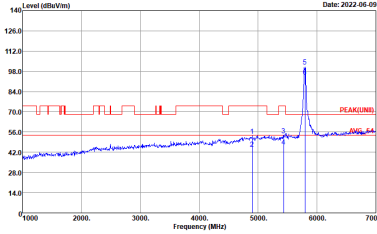
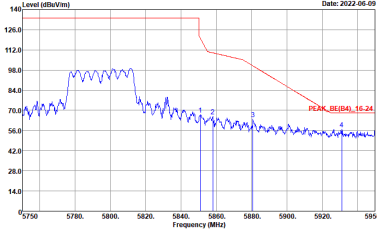
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



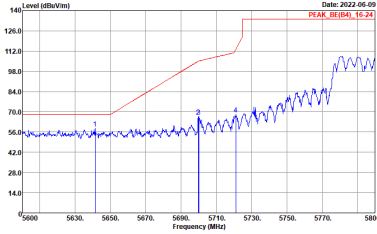
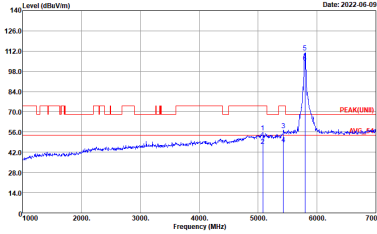
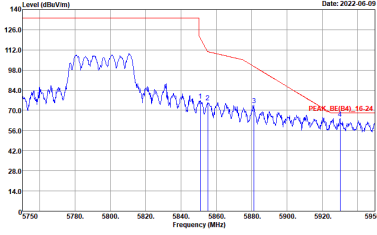
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH402-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Avg.	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

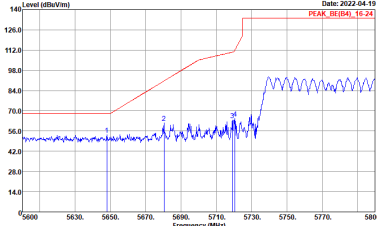
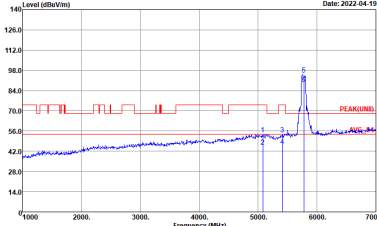
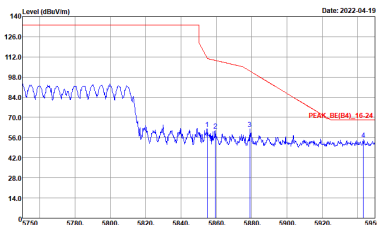
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



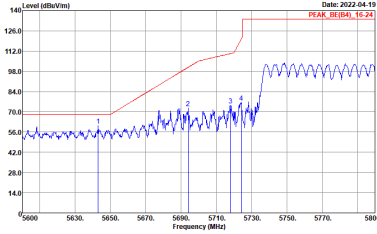
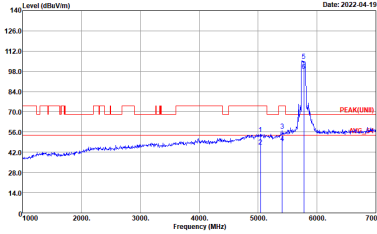
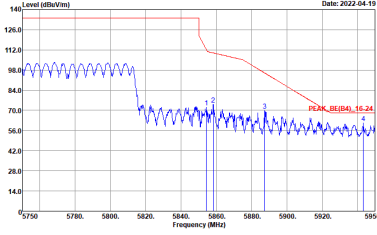
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH402-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



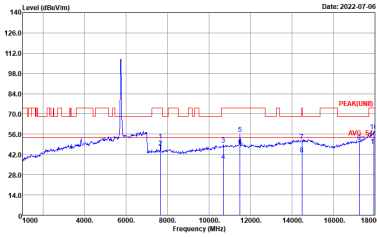
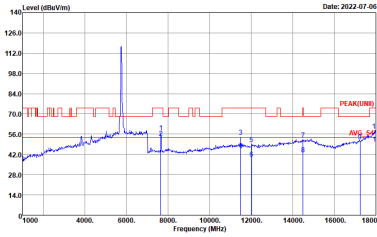
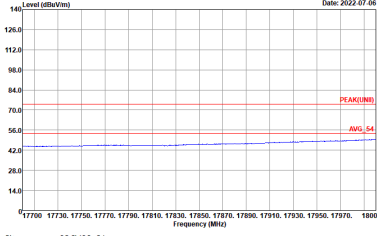
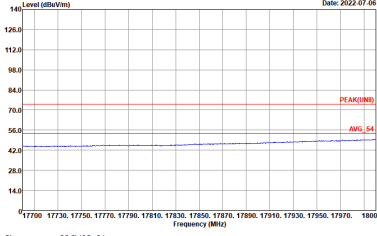
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL
Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL

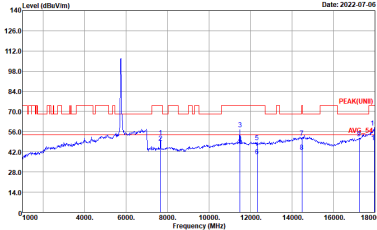
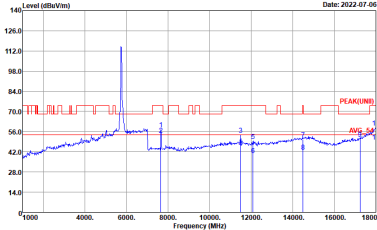
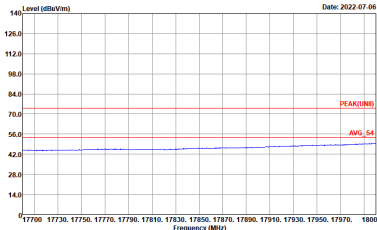
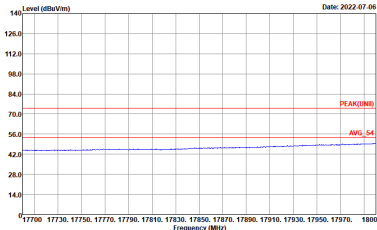


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-07-06 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	Level (dBuV/m) Date: 2022-07-06 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL



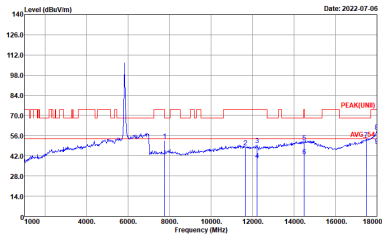
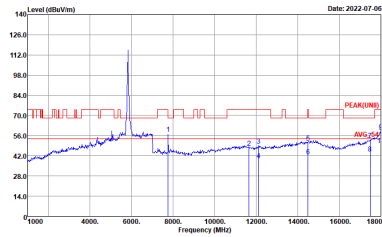
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-07-06 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	Level (dBuV/m) Date: 2022-07-06 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

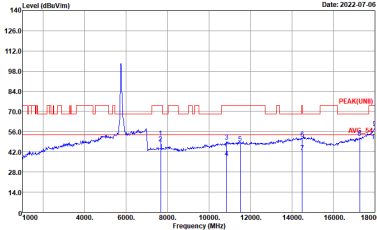
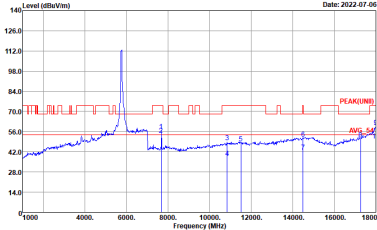
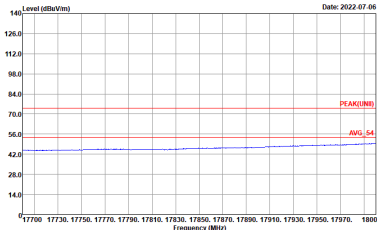
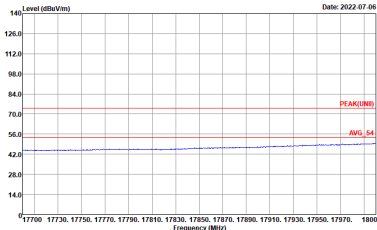
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL
Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-07-06 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	Level (dBuV/m) Date: 2022-07-06 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

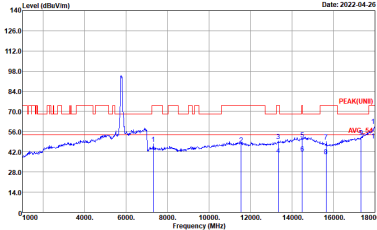
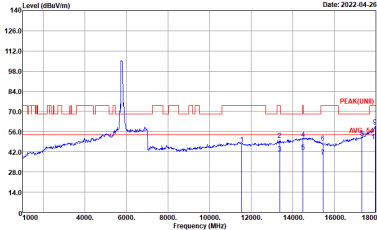
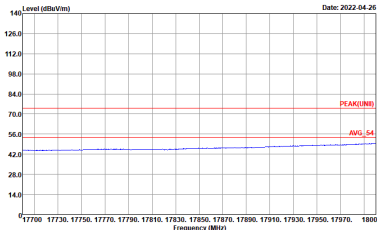
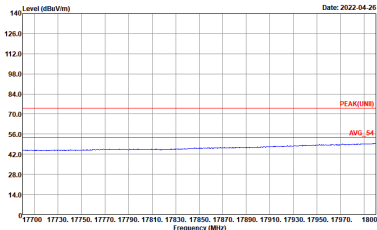
Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL
Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL



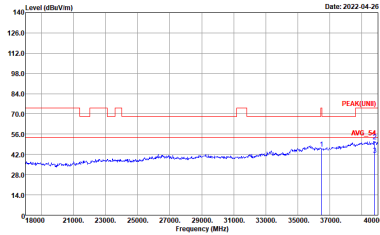
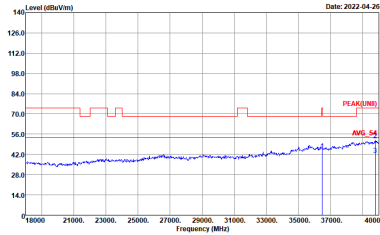
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-07-06 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	Level (dBuV/m) Date: 2022-07-06 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL
Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL

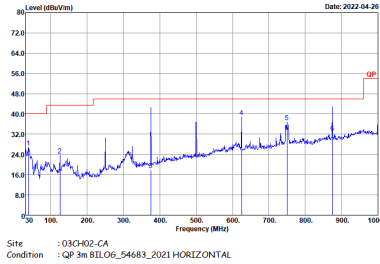
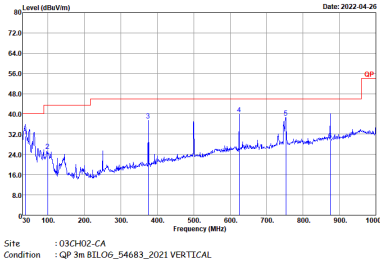


Emission above 18GHz
5GHz WIFI 802.11ac VHT40 (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ac VHT40 SHF	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UM) 1m SHF_HORN_00842_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UM) 1m SHF_HORN_00842_2021 VERTICAL

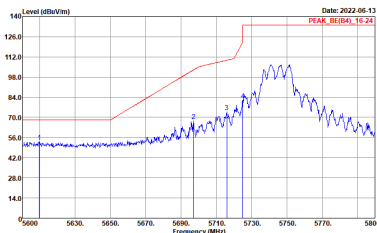
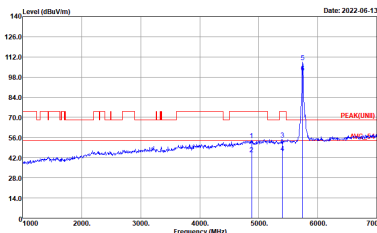
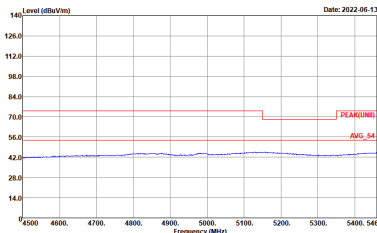


Emission below 1GHz
5GHz WIFI 802.11ac VHT40 (LF @ 3m)

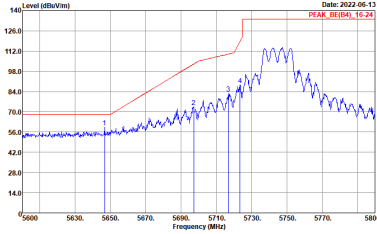
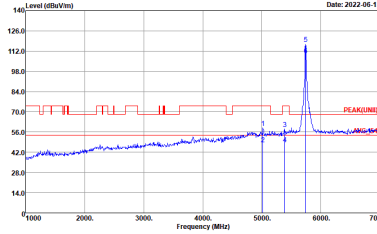
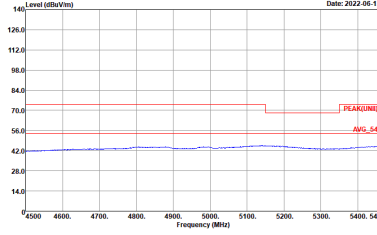
WIFI	5GHz WIFI	
ANT	802.11ac VHT40 LF	
1+2	Horizontal	Vertical
QP / Peak		

<Sample 2>

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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_RE[64]_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK[UNIT] 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH02-CA Condition : PEAK[UNIT] 3m HORN-HF_01895_2021 HORIZONTAL

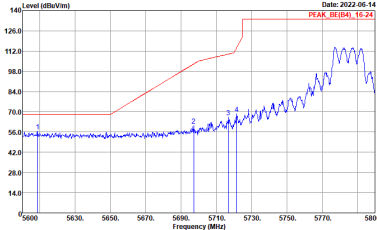
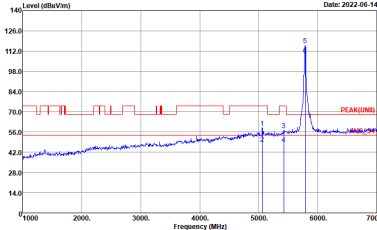
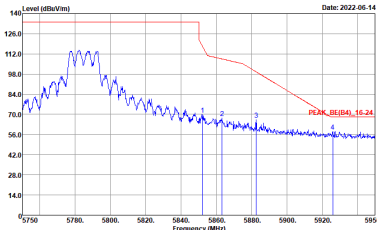


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
3+4	Horizontal	Fundamental
Peak	Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH402-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

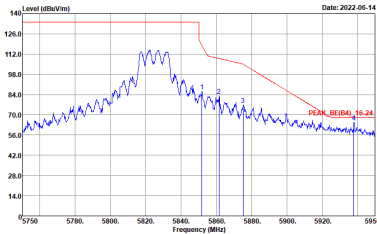
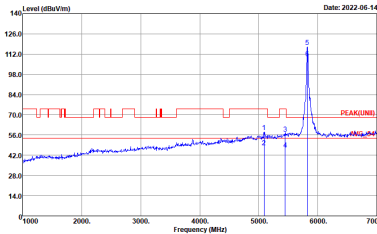


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

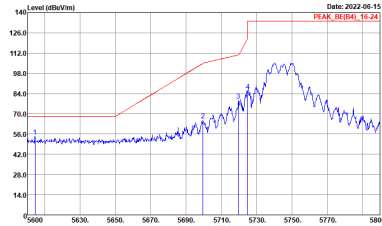
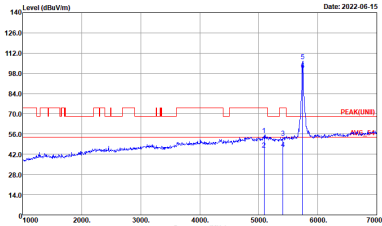
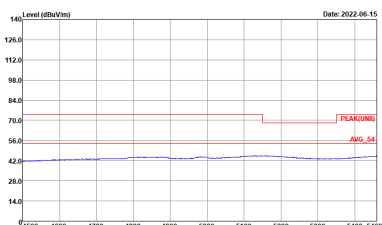


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
3+4	Horizontal	Fundamental
Peak	Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH02-CA Condition : PEAK(LINE) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

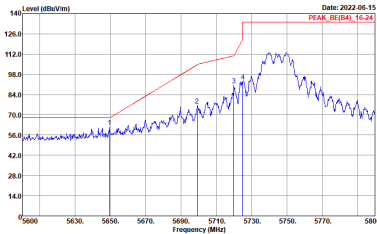
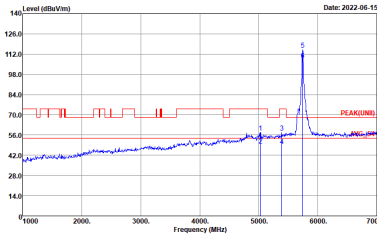
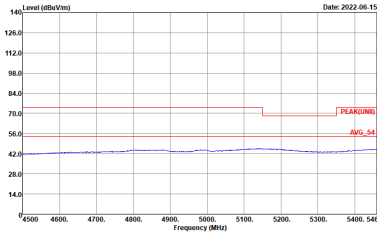


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(LIMIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

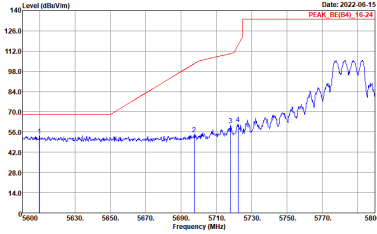
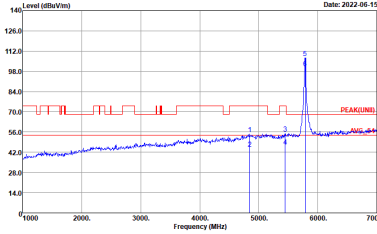
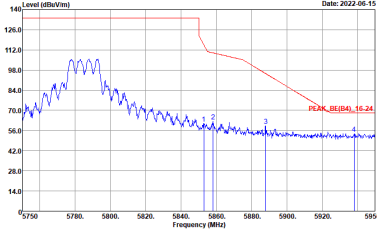
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNB) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH02-CA Condition : PEAK(UNB) 3m HORN-HF_01895_2021 HORIZONTAL



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

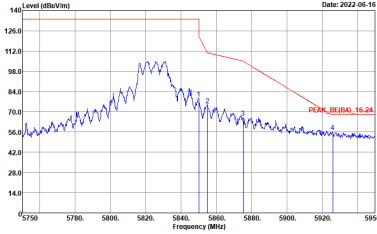
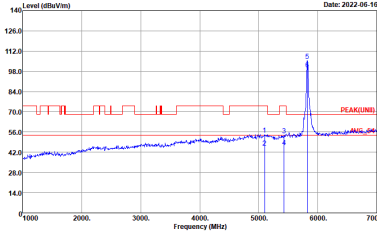


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

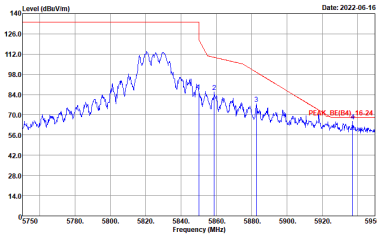
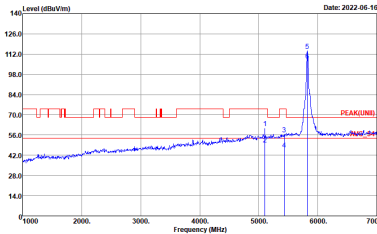


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
3+4	Vertical	Fundamental
Peak	Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



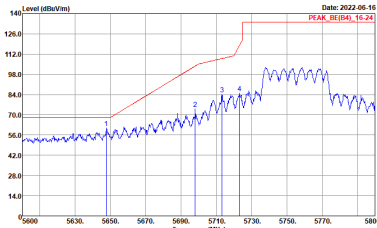
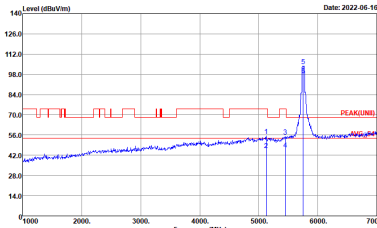
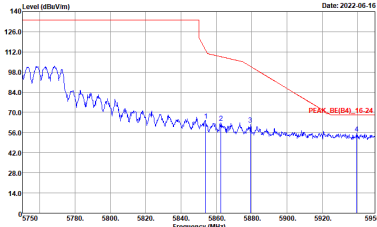
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

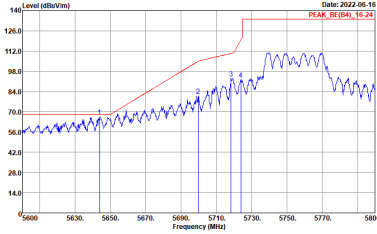
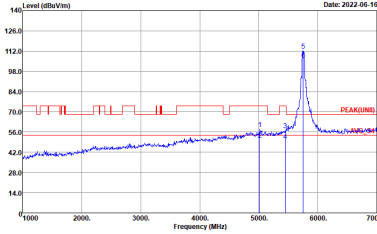
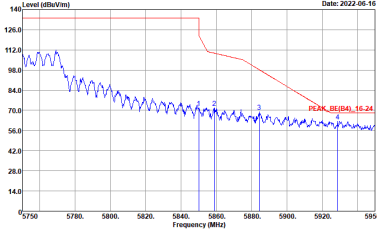


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
3+4	Vertical	Fundamental
Peak Avg.	 Site : 03CH02-CA Condition : PEAK_85(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

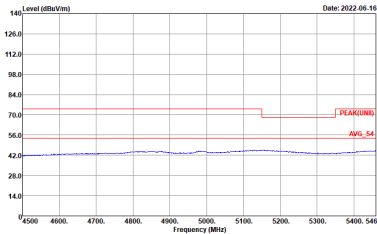
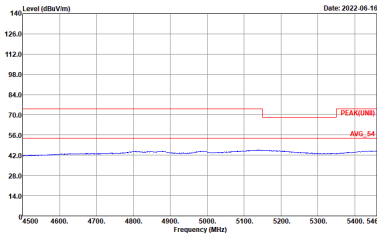


Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

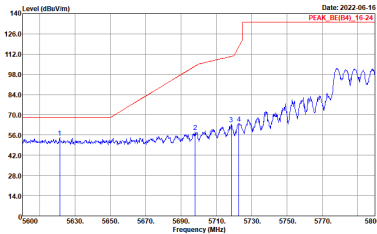
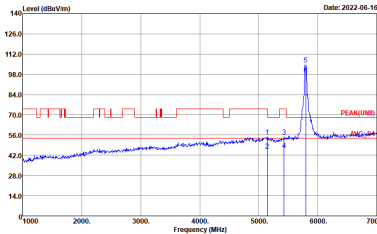
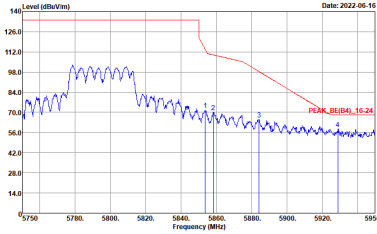
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

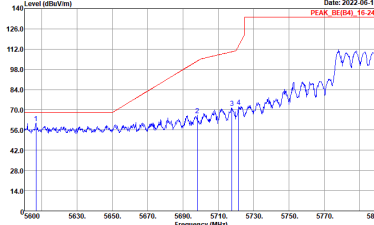
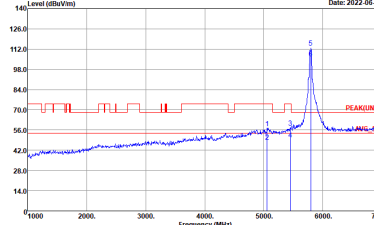
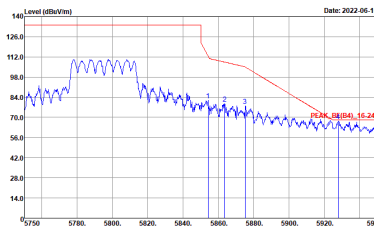
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
3+4	Vertical	Fundamental
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH402-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
3+4	Horizontal	Vertical
Avg.	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL



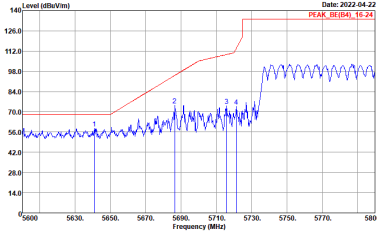
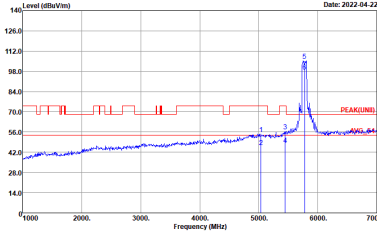
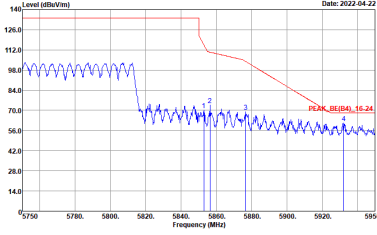
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
3+4	Horizontal	Fundamental
Peak	 Site : 03CH402-CA Condition : PEAK_BE(84)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH402-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH402-CA Condition : PEAK_BE(84)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
3+4	Vertical	Fundamental
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH402-CA Condition : PEAK(FUND)_16-24 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH402-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

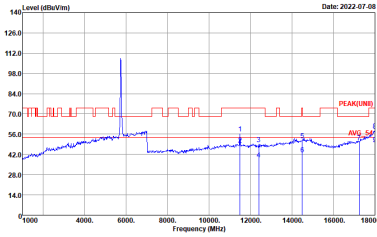
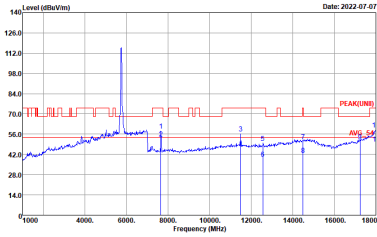
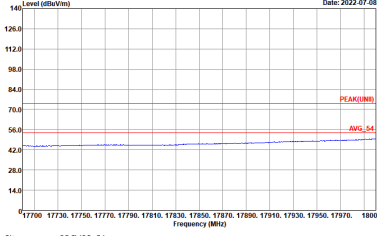
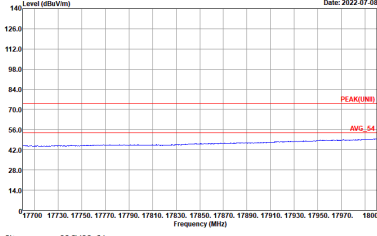


Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
3+4	Horizontal	Fundamental
Peak	Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN-HF_01895_2021 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

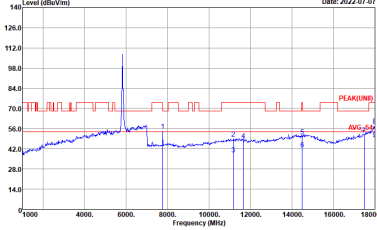
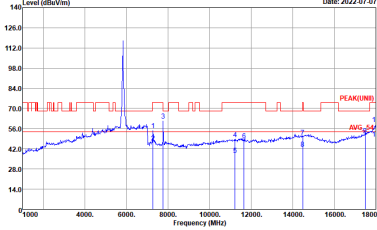
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
3+4	Horizontal	Vertical
Peak	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL
	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL
Avg.		

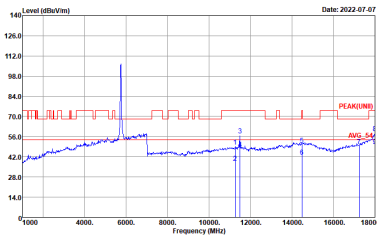
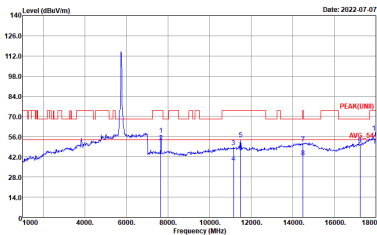
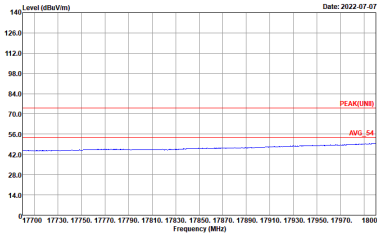
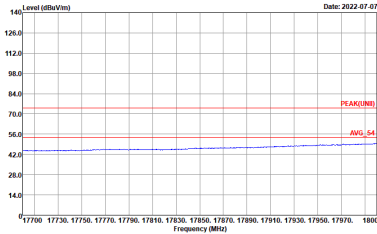


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
3+4	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-07-07 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	Level (dBuV/m) Date: 2022-07-07 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
3+4	Horizontal	Vertical
Peak	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL
	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL
Avg.		

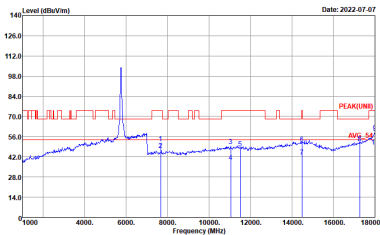
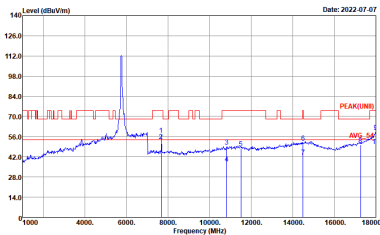
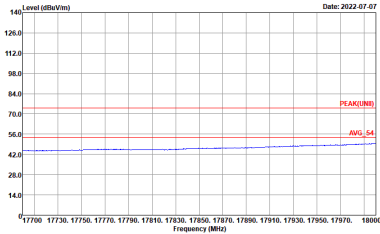
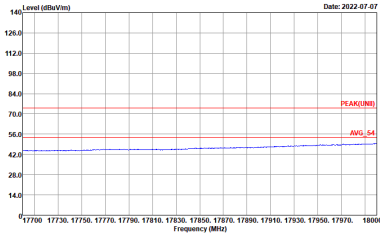


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
3+4	Horizontal	Vertical
Peak Avg.	Level (dBm/100MHz) Date: 2022-07-07 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	Level (dBm/100MHz) Date: 2022-07-07 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
3+4	Horizontal	Vertical
Peak Avg.	Level (dBm/100MHz) Date: 2022-07-07 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	Level (dBm/100MHz) Date: 2022-07-07 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

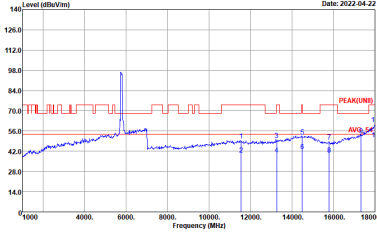
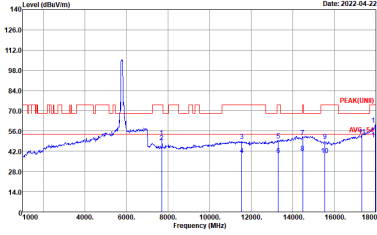
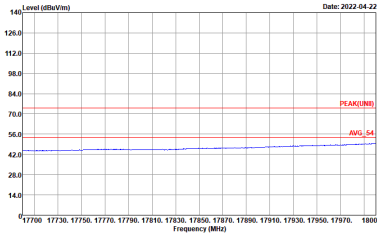
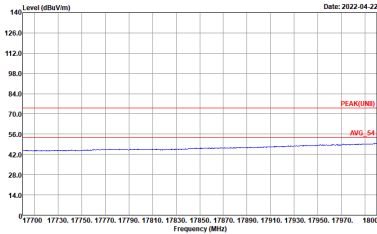
Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL
Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN-HF_01895_2021 VERTICAL



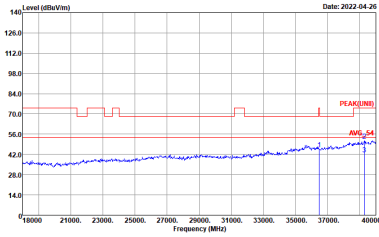
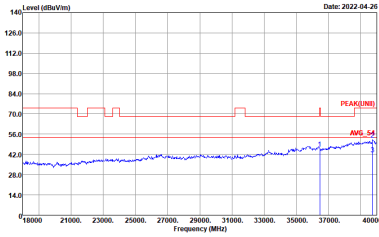
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
3+4	Horizontal	Vertical
Peak Avg.	Level (dBm/100MHz) Date: 2022-07-07 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	Level (dBm/100MHz) Date: 2022-07-07 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL

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

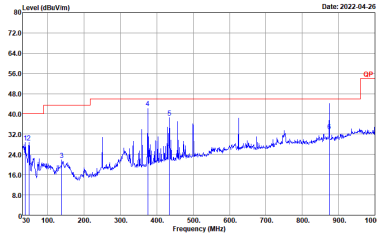
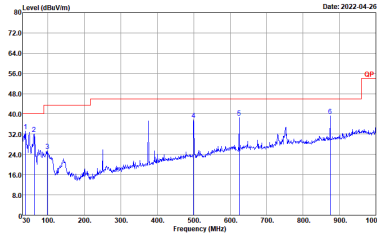
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
3+4	Horizontal	Vertical
Peak	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN-HF_01895_2021 VERTICAL



Emission above 18GHz
5GHz WIFI 802.11a (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11a SHF	
3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNIT) 1m SHF_HORN_00842_2021 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNIT) 1m SHF_HORN_00842_2021 VERTICAL

Emission below 1GHz
5GHz WIFI 802.11a (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11a LF	
3+4	Horizontal	Vertical
QP / Peak	 Site : 03CH02-CA Condition : QP 3m 81LOG_54683_2021 HORIZONTAL	 Site : 03CH02-CA Condition : QP 3m 81LOG_54683_2021 VERTICAL

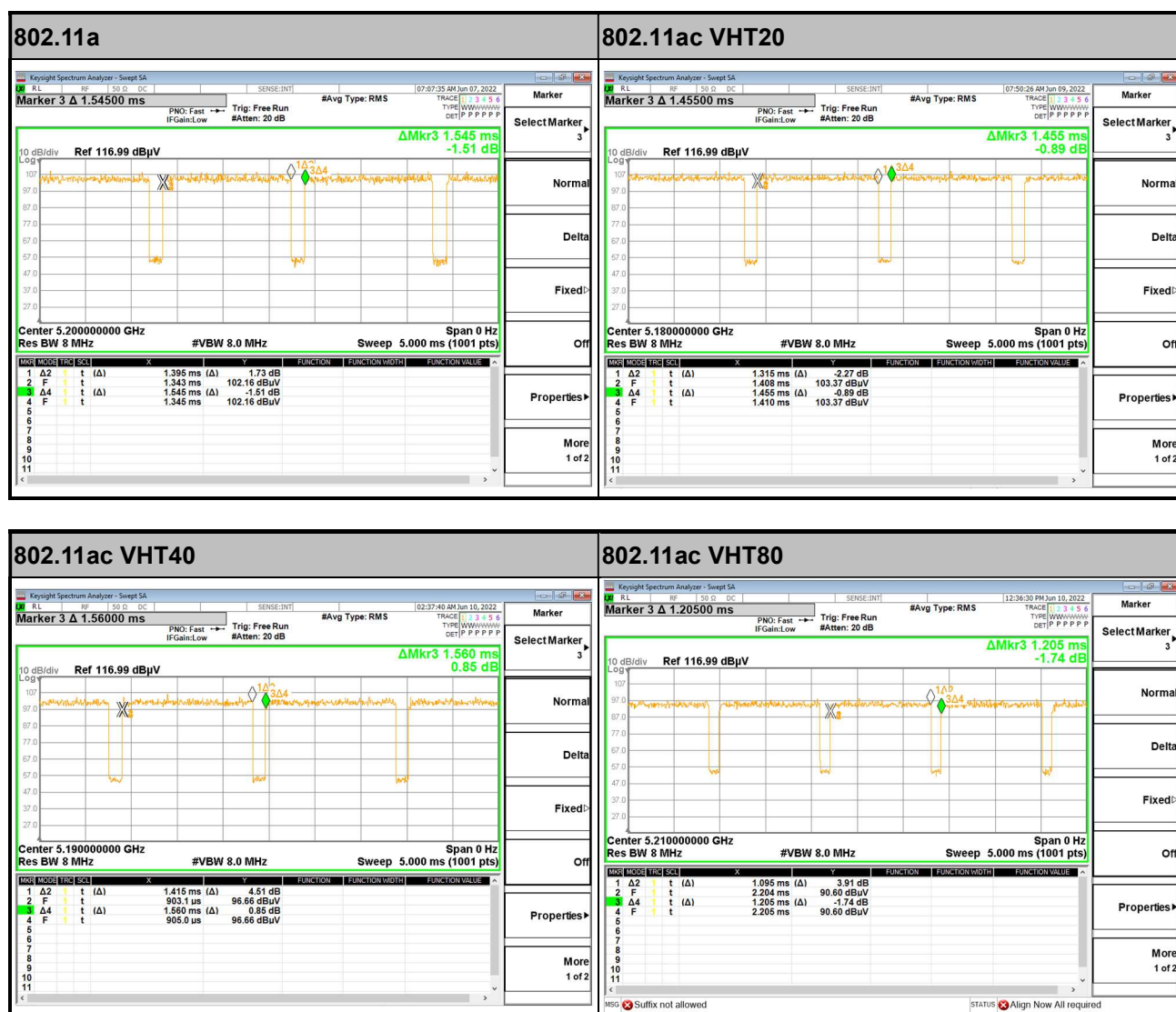


Appendix D. Duty Cycle Plots

<Sample 1>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	5GHz 802.11a	90.29	1395	0.72	1kHz
1+2	5GHz 802.11ac VHT20	90.38	1315	0.76	1kHz
1+2	5GHz 802.11ac VHT40	90.71	1415	0.71	1kHz
1+2	5GHz 802.11ac VHT80	90.87	1095	0.91	1kHz

MIMO <Ant. 1+2>





<Sample 2>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
3+4	5GHz 802.11a	89.97	1390	0.72	1kHz
3+4	5GHz 802.11ac VHT20	90.03	1310	0.76	1kHz
3+4	5GHz 802.11ac VHT40	91.03	1420	0.70	1kHz
3+4	5GHz 802.11ac VHT80	90.87	1095	0.91	1kHz

MIMO <Ant. 3+4>

