

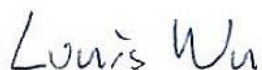


FCC RADIO TEST REPORT

FCC ID : 2A4B7-1021
Equipment : Contactless Sleep Tracker and Wake Light
Model Name : V4E6N2
Applicant : Blueberry Cornel LLC
2150 S. Central Expressway Suite 200
McKinney, TX 75070
Standard : FCC Part 15 Subpart E §15.407

The product was received on Apr. 06, 2022 and testing was performed from May 26, 2022 to Jun. 16, 2022. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR1D2427-01D	01	Initial issue of report	Jul. 22, 2022

Summary of Test Result

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

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

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.

Reviewed by: Alan Liu

Report Producer: Rachel Hsieh

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Contactless Sleep Tracker and Wake Light
Model Name	V4E6N2
FCC ID	2A4B7-1021
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20 Bluetooth BR/EDR/LE 60GHz

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Average Output Power to antenna	<5180 MHz ~ 5240 MHz> 802.11a: 14.90 dBm / 0.0309 W 802.11n HT20: 14.70 dBm / 0.0295 W <5260 MHz ~ 5320 MHz> 802.11a: 15.10 dBm / 0.0324 W 802.11n HT20: 15.10 dBm / 0.0324 W <5500 MHz ~ 5720 MHz> 802.11a: 15.60 dBm / 0.0363 W 802.11n HT20: 15.50 dBm / 0.0355 W
99% Occupied Bandwidth	802.11a: 18.38 MHz 802.11n HT20: 18.73 MHz
Antenna Gain	<5180 MHz ~ 5240 MHz> : 6.5 dBi <5260 MHz ~ 5320 MHz> : 6.5 dBi <5500 MHz ~ 5720 MHz> : 6.5 dBi
Antenna Type	PIFA Antenna
Type of Modulation	802.11a/n : OFDM (BPSK/QPSK/16QAM/64QAM)

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY, DF02-HY (TAF Code: 1190)
Remark	The Conducted Emission and Automatically Discontinue Transmission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, 03CH20-HY

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

FCC designation No.: TW1190 and TW3786

1.5 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.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

2.2 Test Mode

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

Single Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :WLAN (5GHz) Link + rel start - Continuous Stress (CPU + SOC + FLASH + Radar + LED + Clock + Buzzer/Audio + Temp Sensors) with NA AP31 Adapter
Remark: For Radiated Test Cases, the tests were performed with Adapter (AP31).	

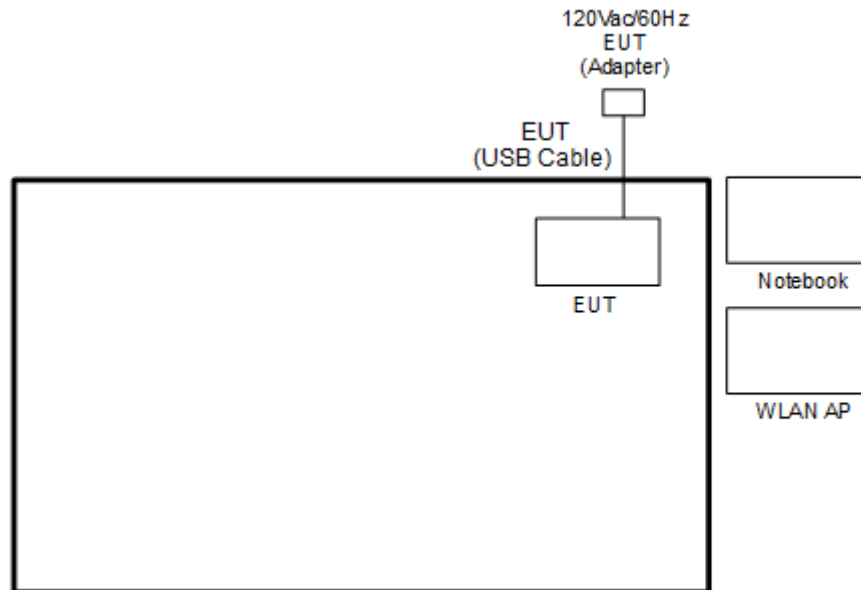
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

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

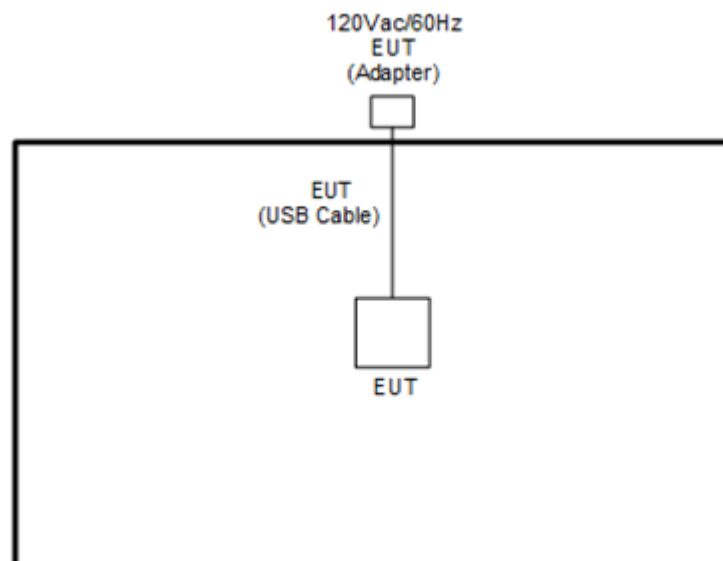
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

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

2.5 EUT Operation Test Setup

The RF test items, utility "Compliance 1.0.1.9" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

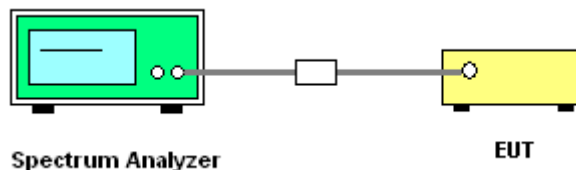
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup

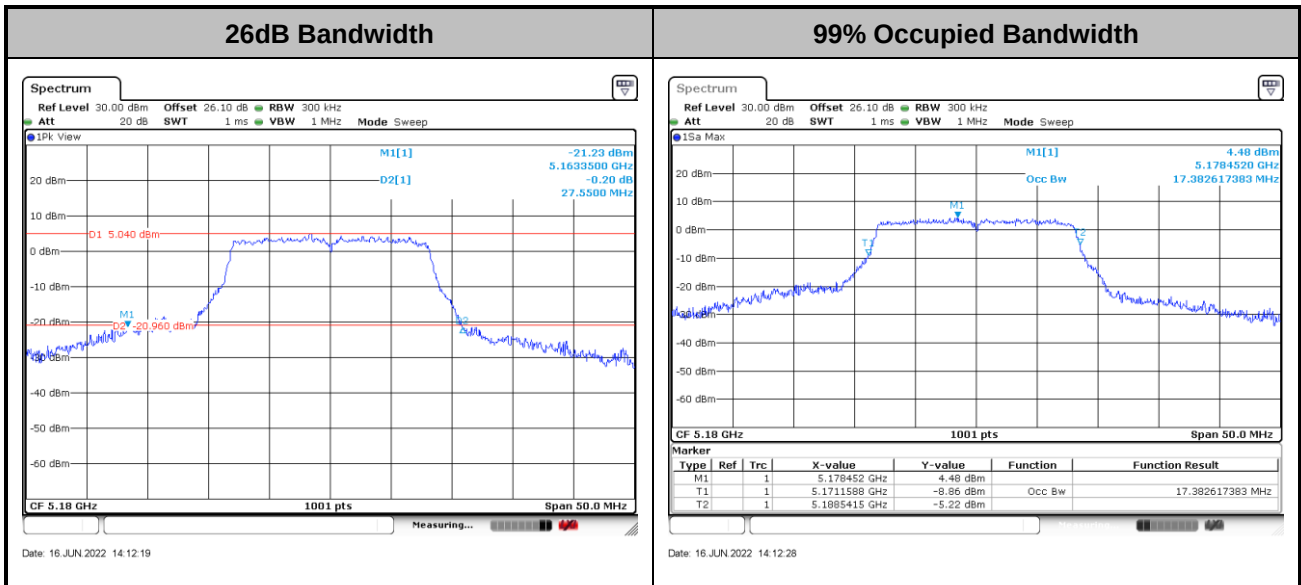


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

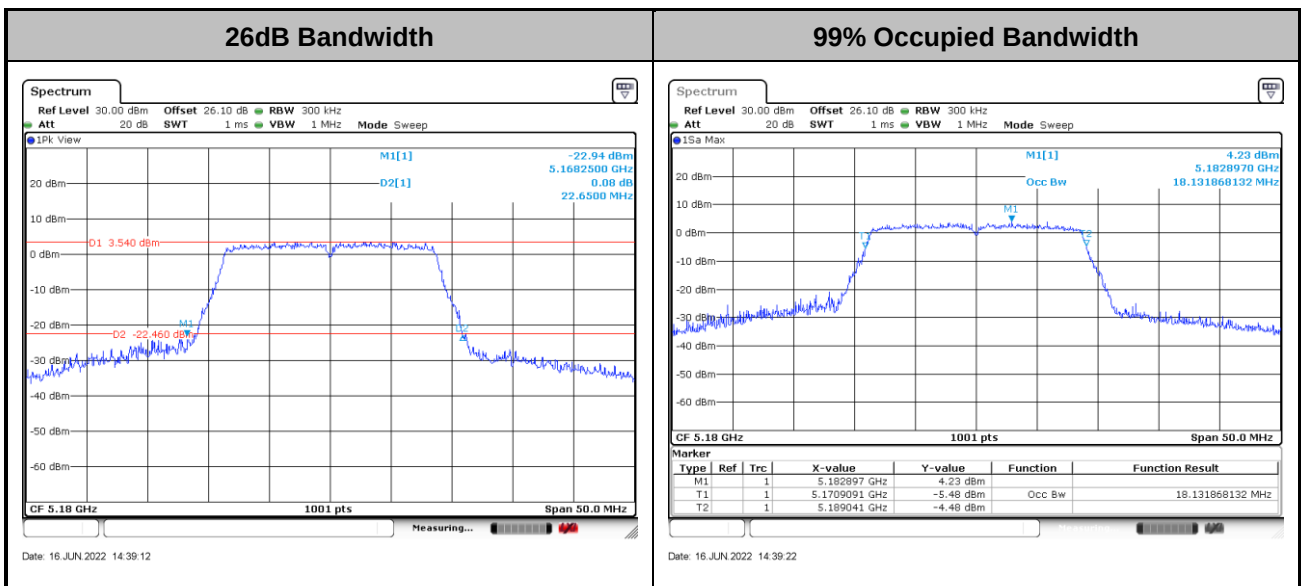


<802.11a>



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

<802.11n HT20>



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



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.2.2 Measuring Instruments

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

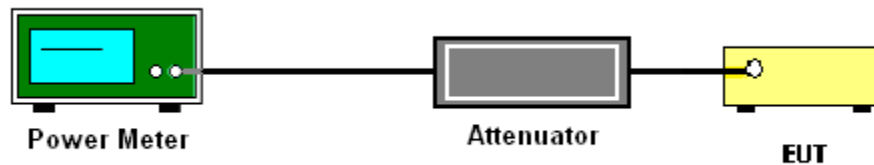
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

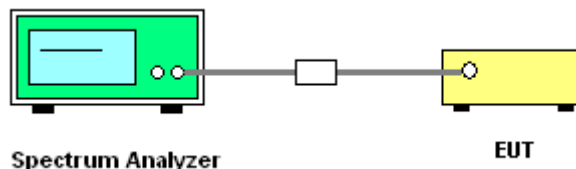
Section F) Maximum power spectral density.

Method SA-3

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

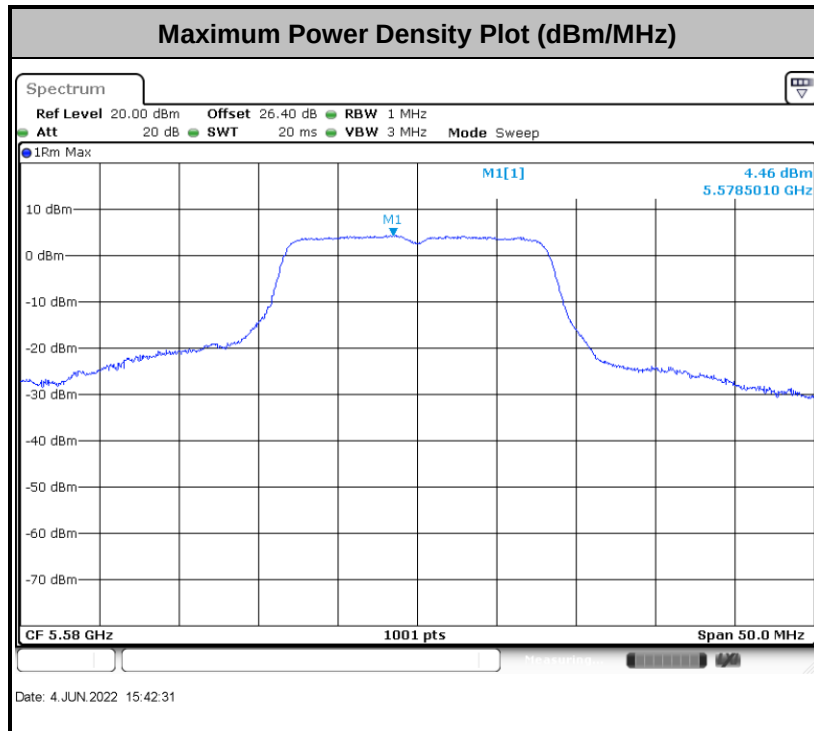
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time $\leq$ (number of points in sweep) $\times$ T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

- (2) Unwanted spurious emissions 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 (dB μ V/m)
- 27	68.3

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

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 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

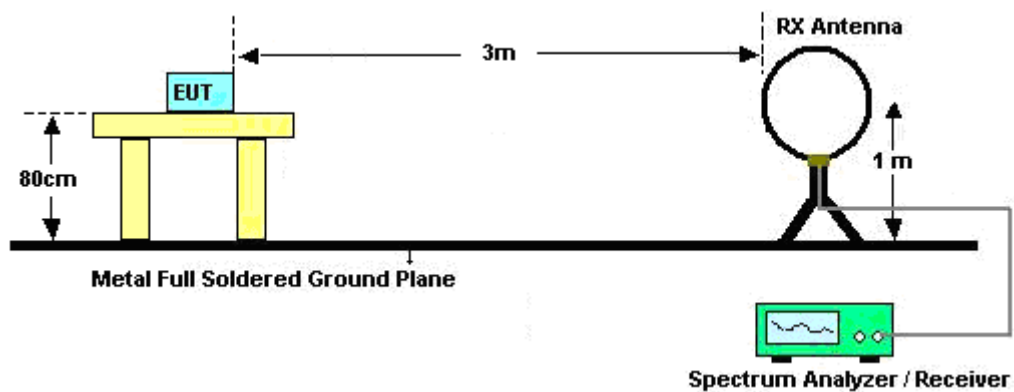
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

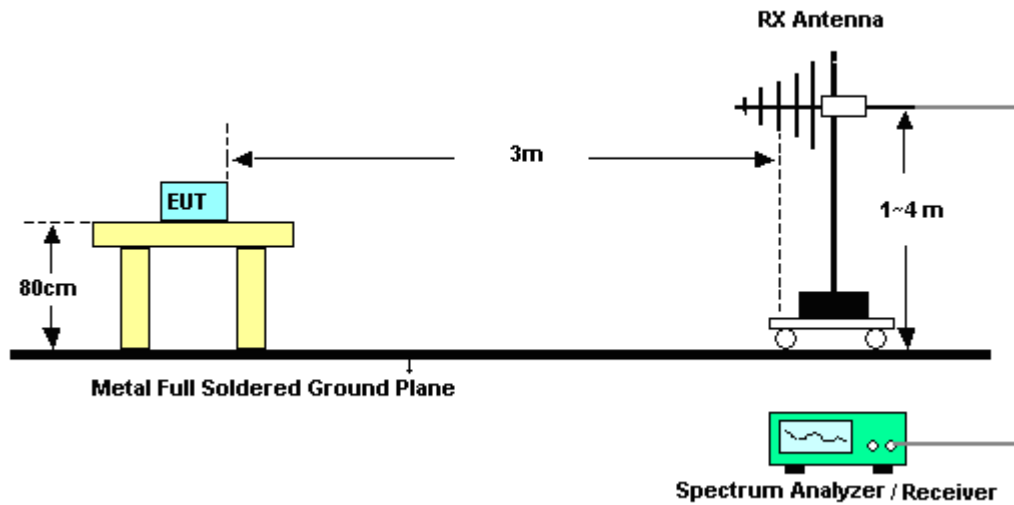
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna 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 “-”.

3.4.4 Test Setup

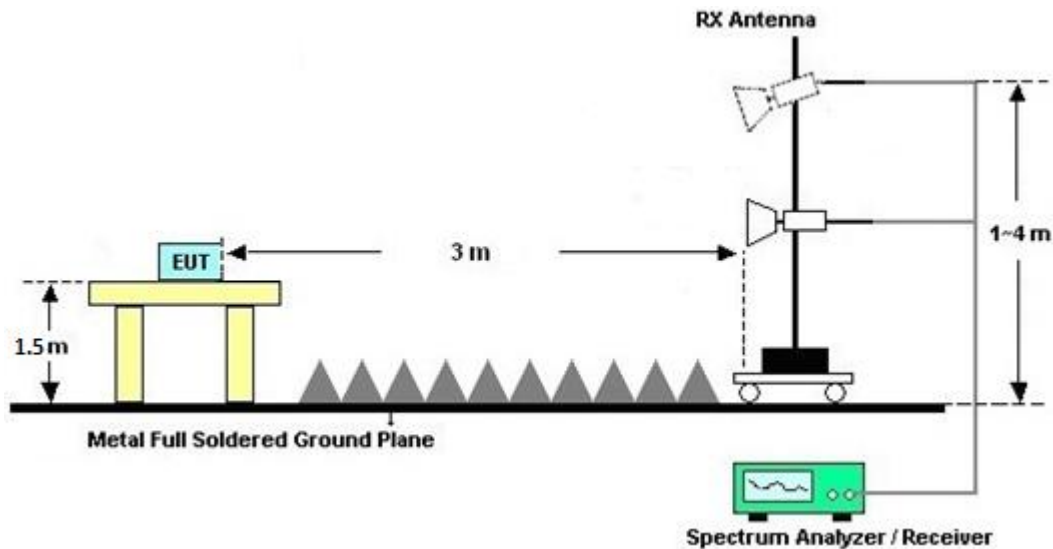
For radiated emissions below 30MHz



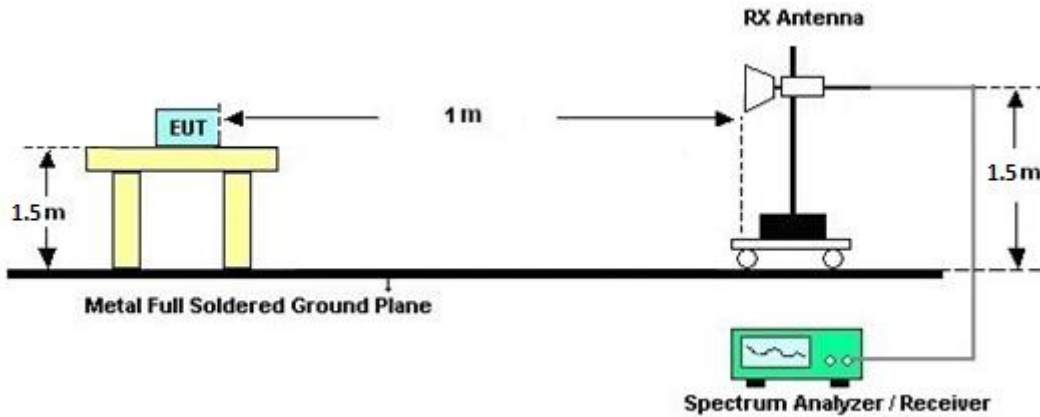
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.4.5 Test Results of Radiated Spurious 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.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

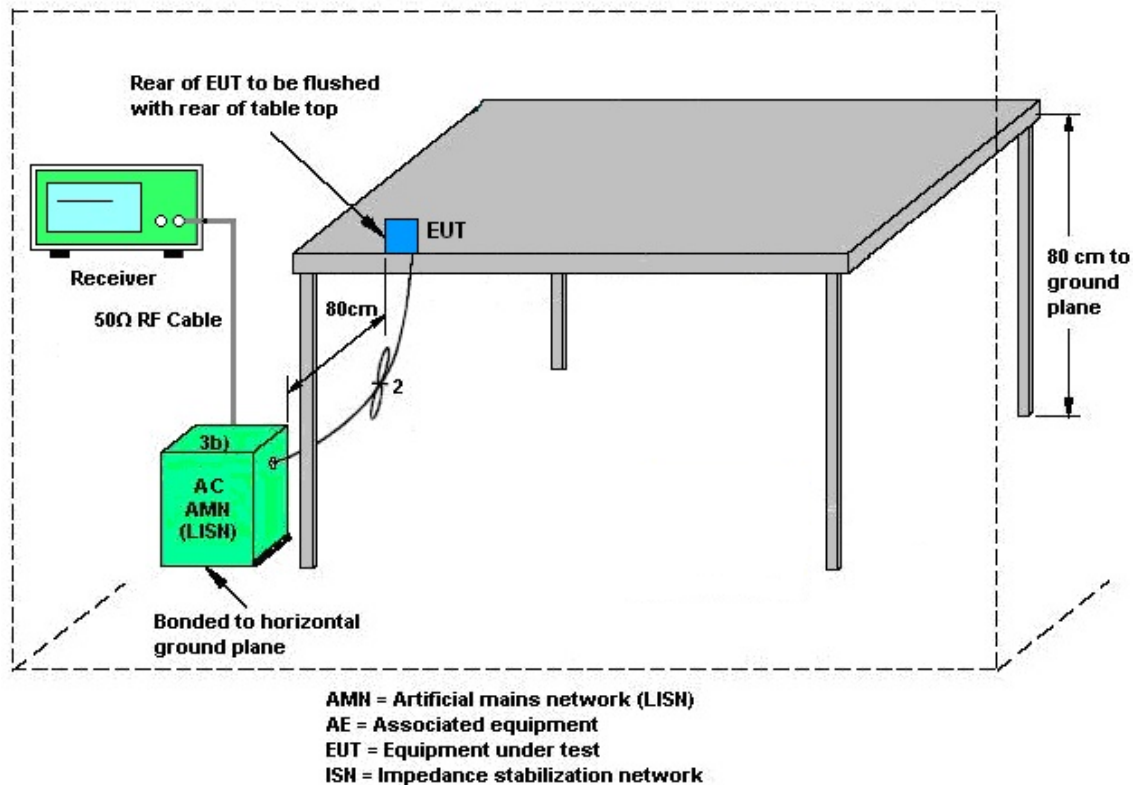
3.5.2 Measuring Instruments

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

3.5.3 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 with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

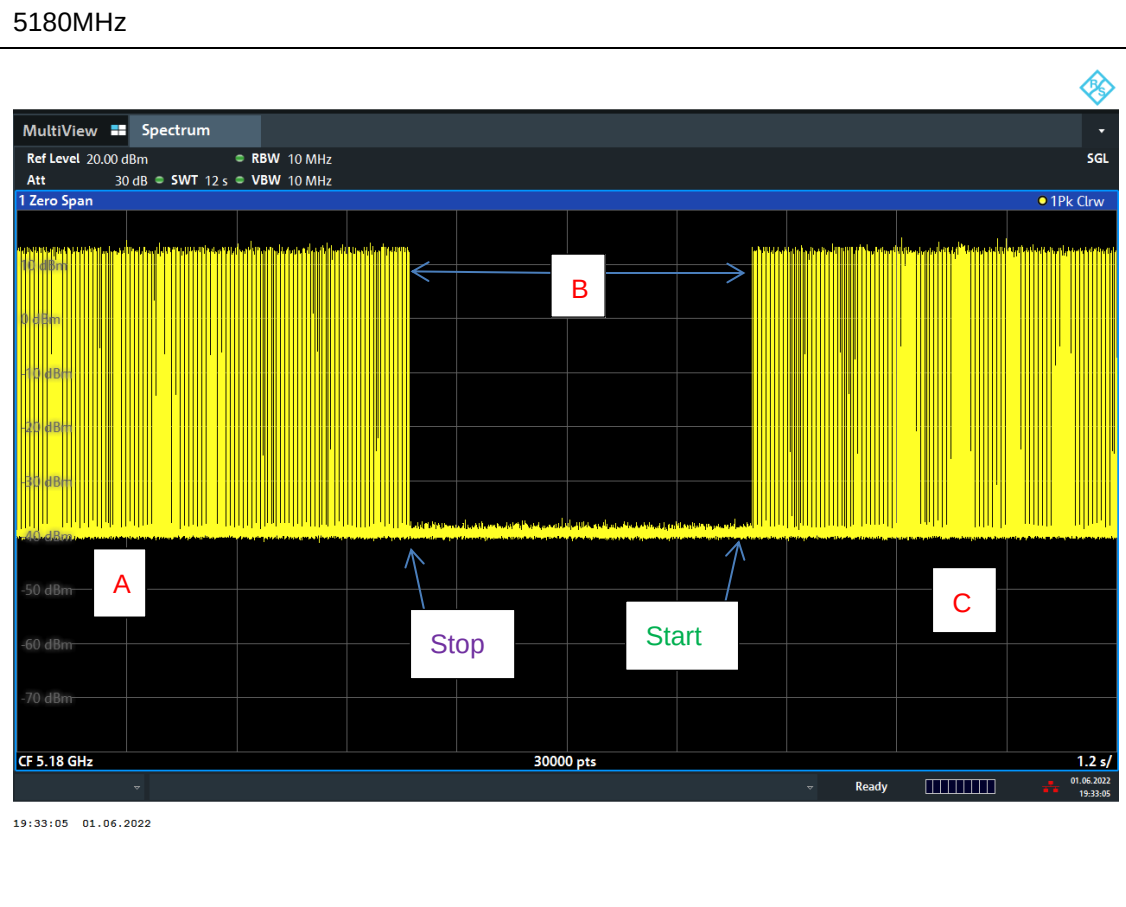
EUT is verified this characteristic during the function check of normal sample associated with an access point:

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

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

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

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



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



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 07, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Jun. 07, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Jun. 07, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Jun. 07, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Jun. 07, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Jun. 07, 2022	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Jun. 07, 2022	Dec. 29, 2022	Conduction (CO05-HY)
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Jun. 04, 2022~ Jun. 16, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO1 2 (NO:113)	10MHz~6GHz	Dec. 16, 2021	Jun. 04, 2022~ Jun. 16, 2022	Dec. 15, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Jun. 04, 2022~ Jun. 16, 2022	Aug. 29, 2022	Conducted (TH05-HY)
EMI Test Receiver	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 12, 2021	May 26, 2022~ Jun. 06, 2022	Jul. 11, 2022	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz~1000MHz	Jan. 03, 2022	May 26, 2022~ Jun. 06, 2022	Jan. 02, 2023	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 15, 2021	May 26, 2022~ Jun. 06, 2022	Nov. 14, 2022	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 24, 2021	May 26, 2022~ Jun. 06, 2022	Dec. 23, 2022	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	May 26, 2022~ Jun. 06, 2022	Jan. 06, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	55606 & 08	30MHz~1GHz	Oct. 17, 2021	May 26, 2022~ Jun. 06, 2022	Oct. 16, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2021	May 26, 2022~ Jun. 06, 2022	Jun. 22, 2022	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 30, 2021	May 26, 2022~ Jun. 06, 2022	Nov. 29, 2022	Radiation (03CH20-HY)
Hygrometer	TECEPEL	DTM-303B	TP200879	N/A	Sep. 30, 2021	May 26, 2022~ Jun. 06, 2022	Sep. 29, 2022	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,8040 15/2,804027/2	N/A	Jan. 19, 2022	May 26, 2022~ Jun. 06, 2022	Jan. 18, 2023	Radiation (03CH20-HY)
Software	Audix	E3 6.2009-8-24	RK-002156	N/A	N/A	May 26, 2022~ Jun. 06, 2022	N/A	Radiation (03CH20-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 26, 2022~ Jun. 06, 2022	N/A	Radiation (03CH20-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 26, 2022~ Jun. 06, 2022	N/A	Radiation (03CH20-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	May 26, 2022~ Jun. 06, 2022	N/A	Radiation (03CH20-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Feb. 17, 2022	Jun. 01, 2022	Feb. 16, 2023	Conducted (DF02-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.9 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Benny Ku	Temperature:	21~25	°C
Test Date:	2022/6/4~2022/6/16	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	-	17.38	-	27.55	-	-	-	22.40	
11a	6Mbps	1	44	5220	-	18.38	-	31.10	-	-	-	22.64	
11a	6Mbps	1	48	5240	-	17.33	-	26.05	-	-	-	22.39	
HT20	MCS0	1	36	5180	-	18.13	-	22.65	-	-	-	22.58	
HT20	MCS0	1	44	5220	-	18.48	-	28.65	-	-	-	22.67	
HT20	MCS0	1	48	5240	-	18.33	-	26.25	-	-	-	22.63	

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	-	14.10		-	23.50	-	6.50		Pass
11a	6Mbps	1	44	5220	-	14.90		-	23.50	-	6.50		Pass
11a	6Mbps	1	48	5240	-	14.80		-	23.50	-	6.50		Pass
HT20	MCS0	1	36	5180	-	13.00		-	23.50	-	6.50		Pass
HT20	MCS0	1	44	5220	-	14.70		-	23.50	-	6.50		Pass
HT20	MCS0	1	48	5240	-	14.60		-	23.50	-	6.50		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	-	2.59		-	10.50	-	6.50		Pass
11a	6Mbps	1	44	5220	-	3.49		-	10.50	-	6.50		Pass
11a	6Mbps	1	48	5240	-	3.39		-	10.50	-	6.50		Pass
HT20	MCS0	1	36	5180	-	1.16		-	10.50	-	6.50		Pass
HT20	MCS0	1	44	5220	-	3.14		-	10.50	-	6.50		Pass
HT20	MCS0	1	48	5240	-	3.15		-	10.50	-	6.50		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II single antenna															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	-	17.88	-	28.65	-	23.52	-	29.52	-	23.98	
11a	6Mbps	1	60	5300	-	17.73	-	30.05	-	23.49	-	29.49	-	23.98	
11a	6Mbps	1	64	5320	-	17.23	-	24.50	-	23.36	-	29.36	-	23.98	
HT20	MCS0	1	52	5260	-	18.73	-	40.10	-	23.73	-	29.73	-	23.98	
HT20	MCS0	1	60	5300	-	18.63	-	37.00	-	23.70	-	29.70	-	23.98	
HT20	MCS0	1	64	5320	-	18.23	-	23.85	-	23.61	-	29.61	-	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	-	15.00		-	23.48	-	6.50	26.99	Pass
11a	6Mbps	1	60	5300	-	15.10		-	23.48	-	6.50	26.99	Pass
11a	6Mbps	1	64	5320	-	13.80		-	23.48	-	6.50	26.99	Pass
HT20	MCS0	1	52	5260	-	15.00		-	23.48	-	6.50	26.99	Pass
HT20	MCS0	1	60	5300	-	15.10		-	23.48	-	6.50	26.99	Pass
HT20	MCS0	1	64	5320	-	13.40		-	23.48	-	6.50	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	-	4.16		-	10.50	-	6.50		Pass
11a	6Mbps	1	60	5300	-	3.84		-	10.50	-	6.50		Pass
11a	6Mbps	1	64	5320	-	2.43		-	10.50	-	6.50		Pass
HT20	MCS0	1	52	5260	-	3.36		-	10.50	-	6.50		Pass
HT20	MCS0	1	60	5300	-	3.48		-	10.50	-	6.50		Pass
HT20	MCS0	1	64	5320	-	1.34		-	10.50	-	6.50		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III single antenna																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	-	17.18	-	21.75	-	23.35	-	29.35	-	23.98	----	----
11a	6Mbps	1	116	5580	-	17.78	-	27.75	-	23.50	-	29.50	-	23.98	----	----
11a	6Mbps	1	140	5700	-	17.13	-	21.75	-	23.34	-	29.34	-	23.98	----	----
HT20	MCS0	1	100	5500	-	18.23	-	22.15	-	23.61	-	29.61	-	23.98	----	----
HT20	MCS0	1	116	5580	-	18.58	-	37.85	-	23.69	-	29.69	-	23.98	----	----
HT20	MCS0	1	140	5700	-	18.28	-	22.20	-	23.62	-	29.62	-	23.98	----	----

TEST RESULTS DATA
Average Power Table

FCC Band III single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	-	13.70		-	23.48	-	6.50	26.99	Pass
11a	6Mbps	1	116	5580	-	15.60		-	23.48	-	6.50	26.99	Pass
11a	6Mbps	1	140	5700	-	11.60		-	23.48	-	6.50	26.99	Pass
HT20	MCS0	1	100	5500	-	12.60		-	23.48	-	6.50	26.99	Pass
HT20	MCS0	1	116	5580	-	15.50		-	23.48	-	6.50	26.99	Pass
HT20	MCS0	1	140	5700	-	9.70		-	23.48	-	6.50	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	-	2.13		-	10.50	-	6.50		Pass
11a	6Mbps	1	116	5580	-	4.46		-	10.50	-	6.50		Pass
11a	6Mbps	1	140	5700	-	0.08		-	10.50	-	6.50		Pass
HT20	MCS0	1	100	5500	-	0.58		-	10.50	-	6.50		Pass
HT20	MCS0	1	116	5580	-	4.02		-	10.50	-	6.50		Pass
HT20	MCS0	1	140	5700	-	-2.19		-	10.50	-	6.50		Pass



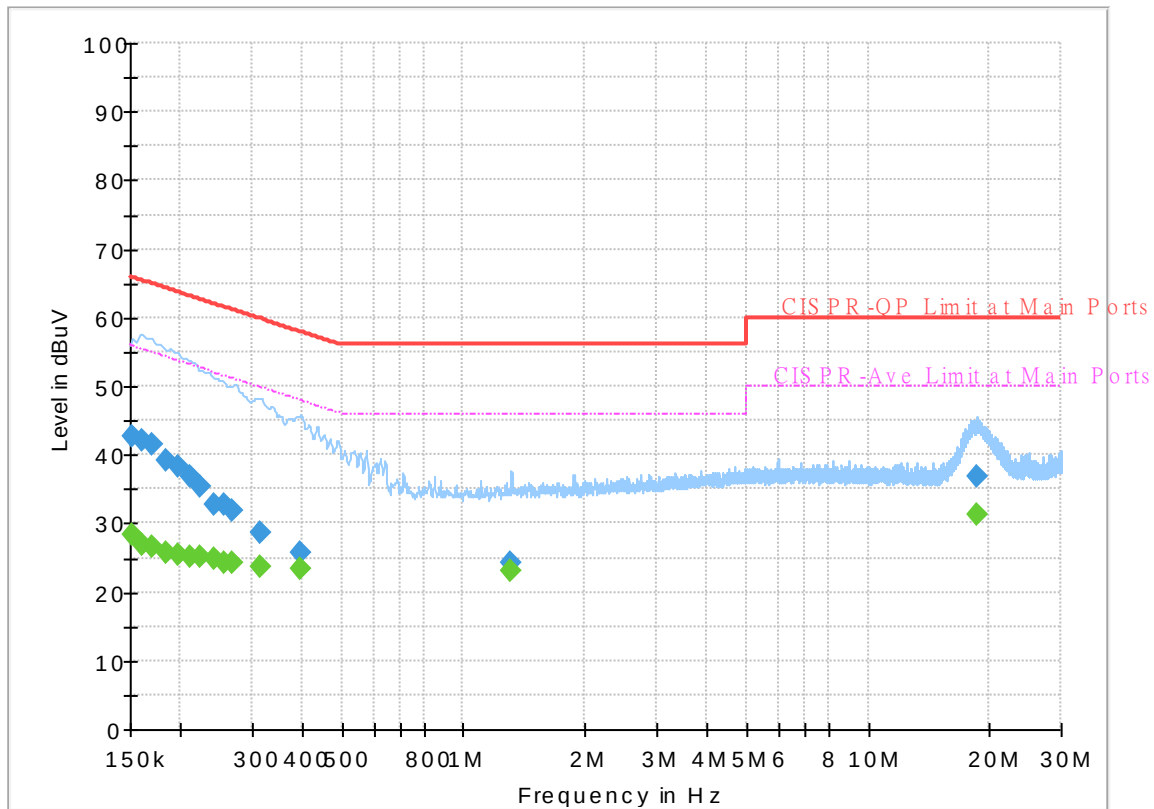
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO : 1D2427-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final Result

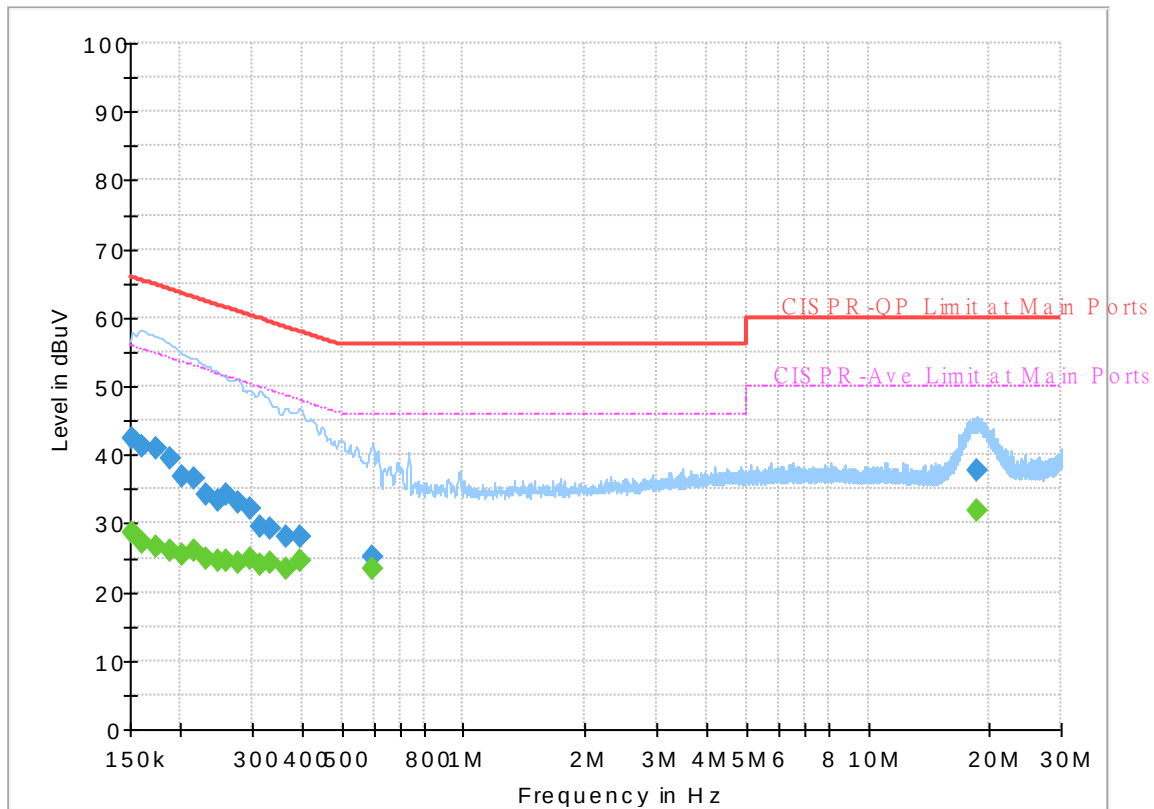
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.34	55.88	27.54	L1	OFF	19.6
0.152250	42.54	---	65.88	23.34	L1	OFF	19.6
0.161250	---	26.94	55.40	28.46	L1	OFF	19.6
0.161250	41.97	---	65.40	23.43	L1	OFF	19.6
0.170250	---	26.58	54.95	28.37	L1	OFF	19.6
0.170250	41.66	---	64.95	23.29	L1	OFF	19.6
0.183750	---	25.75	54.31	28.56	L1	OFF	19.6
0.183750	39.25	---	64.31	25.06	L1	OFF	19.6
0.197250	---	25.57	53.73	28.16	L1	OFF	19.6
0.197250	38.16	---	63.73	25.57	L1	OFF	19.6
0.210750	---	25.15	53.18	28.03	L1	OFF	19.6
0.210750	36.80	---	63.18	26.38	L1	OFF	19.6
0.224250	---	25.01	52.66	27.65	L1	OFF	19.6
0.224250	35.48	---	62.66	27.18	L1	OFF	19.6
0.242250	---	24.74	52.02	27.28	L1	OFF	19.6
0.242250	32.83	---	62.02	29.19	L1	OFF	19.6
0.255750	---	24.31	51.57	27.26	L1	OFF	19.6
0.255750	32.83	---	61.57	28.74	L1	OFF	19.6
0.269250	---	24.13	51.14	27.01	L1	OFF	19.6
0.269250	31.92	---	61.14	29.22	L1	OFF	19.6
0.314250	---	23.69	49.86	26.17	L1	OFF	19.6

0.314250	28.64	---	59.86	31.22	L1	OFF	19.6
0.395250	---	23.30	47.95	24.65	L1	OFF	19.6
0.395250	25.86	---	57.95	32.09	L1	OFF	19.6
1.313250	---	23.10	46.00	22.90	L1	OFF	19.7
1.313250	24.33	---	56.00	31.67	L1	OFF	19.7
18.647250	---	31.40	50.00	18.60	L1	OFF	20.4
18.647250	36.84	---	60.00	23.16	L1	OFF	20.4

EUT Information

Report NO : 1D2427-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.67	55.88	27.21	N	OFF	19.6
0.152250	42.45	---	65.88	23.43	N	OFF	19.6
0.161250	---	27.07	55.40	28.33	N	OFF	19.6
0.161250	41.15	---	65.40	24.25	N	OFF	19.6
0.174750	---	26.55	54.73	28.18	N	OFF	19.6
0.174750	40.85	---	64.73	23.88	N	OFF	19.6
0.188250	---	26.10	54.11	28.01	N	OFF	19.6
0.188250	39.41	---	64.11	24.70	N	OFF	19.6
0.201750	---	25.48	53.54	28.06	N	OFF	19.6
0.201750	36.96	---	63.54	26.58	N	OFF	19.6
0.215250	---	26.07	53.00	26.93	N	OFF	19.6
0.215250	36.61	---	63.00	26.39	N	OFF	19.6
0.231000	---	24.88	52.41	27.53	N	OFF	19.6
0.231000	34.25	---	62.41	28.16	N	OFF	19.6
0.249000	---	24.53	51.79	27.26	N	OFF	19.6
0.249000	33.32	---	61.79	28.47	N	OFF	19.6
0.260250	---	24.43	51.42	26.99	N	OFF	19.6
0.260250	34.21	---	61.42	27.21	N	OFF	19.6
0.276000	---	24.15	50.94	26.79	N	OFF	19.6
0.276000	32.96	---	60.94	27.98	N	OFF	19.6
0.296250	---	24.84	50.35	25.51	N	OFF	19.6

0.296250	32.19	---	60.35	28.16	N	OFF	19.6
0.314250	---	23.94	49.86	25.92	N	OFF	19.6
0.314250	29.62	---	59.86	30.24	N	OFF	19.6
0.332250	---	24.12	49.40	25.28	N	OFF	19.6
0.332250	29.28	---	59.40	30.12	N	OFF	19.6
0.363750	---	23.49	48.64	25.15	N	OFF	19.6
0.363750	27.98	---	58.64	30.66	N	OFF	19.6
0.395250	---	24.59	47.95	23.36	N	OFF	19.6
0.395250	28.18	---	57.95	29.77	N	OFF	19.6
0.597750	---	23.28	46.00	22.72	N	OFF	19.6
0.597750	25.29	---	56.00	30.71	N	OFF	19.6
18.568500	---	31.91	50.00	18.09	N	OFF	20.4
18.568500	37.63	---	60.00	22.37	N	OFF	20.4



Appendix C. Radiated Spurious Emission

Test Engineer :	JC Liang	Temperature :	18~20°C
		Relative Humidity :	60~68%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5150	62.99	-11.01	74	54.87	33.1	12.76	37.74	398	136	P	H
		5150	50.87	-3.13	54	42.75	33.1	12.76	37.74	398	136	A	H
	*	5180	107.37	-	-	99.27	33.04	12.81	37.75	398	136	P	H
	*	5180	99.53	-	-	91.43	33.04	12.81	37.75	398	136	A	H
		5148.72	57.9	-16.1	74	49.79	33.1	12.75	37.74	100	282	P	V
		5150	47.24	-6.76	54	39.12	33.1	12.76	37.74	100	282	A	V
	*	5180	105.48	-	-	97.38	33.04	12.81	37.75	100	282	P	V
	*	5180	97.65	-	-	89.55	33.04	12.81	37.75	100	282	A	V
802.11a CH 44 5220MHz		5131.3	48.1	-25.9	74	40.02	33.1	12.72	37.74	400	329	P	H
		5149.76	39.14	-14.86	54	31.03	33.1	12.75	37.74	400	329	A	H
	*	5220	107.15	-	-	99.11	32.92	12.89	37.77	400	329	P	H
	*	5220	99.26	-	-	91.22	32.92	12.89	37.77	400	329	A	H
		5371.52	45.85	-28.15	74	37.68	32.79	13.2	37.82	400	329	P	H
		5459.72	36.6	-17.4	54	28.2	32.92	13.34	37.86	400	329	A	H
		5146.38	49.28	-24.72	74	41.17	33.1	12.75	37.74	103	283	P	V
		5149.76	38.75	-15.25	54	30.64	33.1	12.75	37.74	103	283	A	V
	*	5220	105.59	-	-	97.55	32.92	12.89	37.77	103	283	P	V
	*	5220	97.88	-	-	89.84	32.92	12.89	37.77	103	283	A	V
		5410.44	47.03	-26.97	74	38.7	32.9	13.27	37.84	103	283	P	V
		5459.72	36.68	-17.32	54	28.28	32.92	13.34	37.86	103	283	A	V



802.11a CH 48 5240MHz		5145.6	47.82	-26.18	74	39.71	33.1	12.75	37.74	400	127	P	H
		5150	38.38	-15.62	54	30.26	33.1	12.76	37.74	400	127	A	H
	*	5240	107.8	-	-	99.81	32.84	12.93	37.78	400	127	P	H
	*	5240	100.04	-	-	92.05	32.84	12.93	37.78	400	127	A	H
		5364.8	46.61	-27.39	74	38.48	32.76	13.19	37.82	400	127	P	H
		5457.48	36.73	-17.27	54	28.34	32.91	13.33	37.85	400	127	A	H
		5103.48	47.11	-26.89	74	39.07	33.1	12.67	37.73	110	283	P	V
		5149.24	37.55	-16.45	54	29.44	33.1	12.75	37.74	110	283	A	V
	*	5240	105.48	-	-	97.49	32.84	12.93	37.78	110	283	P	V
	*	5240	97.84	-	-	89.85	32.84	12.93	37.78	110	283	A	V
		5406.8	46.07	-27.93	74	37.74	32.9	13.27	37.84	110	283	P	V
		5458.04	36.64	-17.36	54	28.23	32.92	13.34	37.85	110	283	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	49.29	-18.91	68.2	33.39	38.6	18.91	41.61	-	-	P	H
		10949	52.09	-21.91	74	35.51	38.75	19.5	41.67	-	-	P	H
		10949	40.94	-13.06	54	24.36	38.75	19.5	41.67	-	-	A	H
		13303	52.29	-21.71	74	34.12	39.81	21.51	43.15	-	-	P	H
		13303	42.37	-11.63	54	24.2	39.81	21.51	43.15	-	-	A	H
		15540	50	-24	74	33.7	37.98	23.1	44.78	125	33	P	H
		15540	41.76	-12.24	54	25.46	37.98	23.1	44.78	125	33	A	H
		17934	55.22	-18.78	74	34.66	41.34	24.64	45.42	-	-	P	H
		17934	45.97	-8.03	54	25.41	41.34	24.64	45.42	-	-	A	H
		10360	49.59	-18.61	68.2	33.69	38.6	18.91	41.61	-	-	P	V
		12621	51.56	-22.44	74	34.56	39.34	20.91	43.25	-	-	P	V
		12621	41.24	-12.76	54	24.24	39.34	20.91	43.25	-	-	A	V
		13369	53	-21	74	34.66	39.94	21.57	43.17	-	-	P	V
		13369	42.57	-11.43	54	24.23	39.94	21.57	43.17	-	-	A	V
		15540	51.03	-22.97	74	34.73	37.98	23.1	44.78	150	48	P	V
		15540	41.94	-12.06	54	25.64	37.98	23.1	44.78	150	48	A	V
		17956	56.09	-17.91	74	35.39	41.49	24.65	45.44	-	-	P	V
		17956	45.95	-8.05	54	25.25	41.49	24.65	45.44	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 44 5220MHz		10440	49.45	-18.75	68.2	33.59	38.56	18.99	41.69	-	-	P	H
		12423	51.85	-22.15	74	35.33	39.05	20.73	43.26	-	-	P	H
		12423	41.83	-12.17	54	25.31	39.05	20.73	43.26	-	-	A	H
		13380	52.37	-21.63	74	34.01	39.96	21.57	43.17	-	-	P	H
		13380	42.61	-11.39	54	24.25	39.96	21.57	43.17	-	-	A	H
		15660	50.39	-23.61	74	34.14	37.74	23.18	44.67	233	47	P	H
		15660	41.56	-12.44	54	25.31	37.74	23.18	44.67	233	47	A	H
		17934	55.43	-18.57	74	34.87	41.34	24.64	45.42	-	-	P	H
		17934	46.02	-7.98	54	25.46	41.34	24.64	45.42	-	-	A	H
		10440	49.78	-18.42	68.2	33.92	38.56	18.99	41.69	-	-	P	V
		12687	52.94	-21.06	74	35.72	39.47	20.98	43.23	-	-	P	V
		12687	41.34	-12.66	54	24.12	39.47	20.98	43.23	-	-	A	V
		13385	52.62	-21.38	74	34.25	39.97	21.57	43.17	-	-	P	V
		13385	42.6	-11.4	54	24.23	39.97	21.57	43.17	-	-	A	V
		15660	50.48	-23.52	74	34.23	37.74	23.18	44.67	213	69	P	V
		15660	41.66	-12.34	54	25.41	37.74	23.18	44.67	213	69	A	V
		17956	54.97	-19.03	74	34.27	41.49	24.65	45.44	-	-	P	V
		17956	46.07	-7.93	54	25.37	41.49	24.65	45.44	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 48 5240MHz		10480	50.4	-17.8	68.2	34.57	38.52	19.03	41.72	-	-	P	H
		11543	52.12	-21.88	74	36.03	38.81	19.97	42.69	-	-	P	H
		11543	40.38	-13.62	54	24.29	38.81	19.97	42.69	-	-	A	H
		13325	53.17	-20.83	74	34.95	39.85	21.53	43.16	-	-	P	H
		13325	42.36	-11.64	54	24.14	39.85	21.53	43.16	-	-	A	H
		15720	50.89	-23.11	74	34.64	37.64	23.22	44.61	352	124	P	H
		15720	42.52	-11.48	54	26.27	37.64	23.22	44.61	352	124	A	H
		17978	55.58	-18.42	74	34.71	41.65	24.67	45.45	-	-	P	H
		17978	46.19	-7.81	54	25.32	41.65	24.67	45.45	-	-	A	H
		10480	49.77	-18.43	68.2	33.94	38.52	19.03	41.72	-	-	P	V
		12665	52.09	-21.91	74	34.93	39.43	20.96	43.23	-	-	P	V
		12665	41.37	-12.63	54	24.21	39.43	20.96	43.23	-	-	A	V
		13325	52.98	-21.02	74	34.76	39.85	21.53	43.16	-	-	P	V
		13325	42.57	-11.43	54	24.35	39.85	21.53	43.16	-	-	A	V
		15720	49.79	-24.21	74	33.54	37.64	23.22	44.61	100	48	P	V
		15720	42.35	-11.65	54	26.1	37.64	23.22	44.61	100	48	A	V
		17967	55.2	-18.8	74	34.42	41.57	24.66	45.45	-	-	P	V
		17967	46.09	-7.91	54	25.31	41.57	24.66	45.45	-	-	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.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5148.46	64.54	-9.46	74	56.43	33.1	12.75	37.74	400	132	P	H
		5150	50.5	-3.5	54	42.38	33.1	12.76	37.74	400	132	A	H
	*	5180	105.77	-	-	97.67	33.04	12.81	37.75	400	132	P	H
	*	5180	97.57	-	-	89.47	33.04	12.81	37.75	400	132	A	H
		5149.76	62.4	-11.6	74	54.29	33.1	12.75	37.74	378	78	P	V
		5150	47.03	-6.97	54	38.91	33.1	12.76	37.74	378	78	A	V
	*	5180	103.14	-	-	95.04	33.04	12.81	37.75	378	78	P	V
	*	5180	95.14	-	-	87.04	33.04	12.81	37.75	378	78	A	V
802.11n HT20 CH 44 5220MHz		5144.04	48.48	-25.52	74	40.38	33.1	12.74	37.74	400	329	P	H
		5150	39.24	-14.76	54	31.12	33.1	12.76	37.74	400	329	A	H
	*	5220	106.79	-	-	98.75	32.92	12.89	37.77	400	329	P	H
	*	5220	99.25	-	-	91.21	32.92	12.89	37.77	400	329	A	H
		5423.6	46.35	-27.65	74	38	32.9	13.29	37.84	400	329	P	H
		5459.72	36.55	-17.45	54	28.15	32.92	13.34	37.86	400	329	A	H
		5147.68	47.5	-26.5	74	39.39	33.1	12.75	37.74	107	285	P	V
		5150	38.67	-15.33	54	30.55	33.1	12.76	37.74	107	285	A	V
	*	5220	106.18	-	-	98.14	32.92	12.89	37.77	107	285	P	V
	*	5220	97.18	-	-	89.14	32.92	12.89	37.77	107	285	A	V
		5449.08	47.04	-26.96	74	38.67	32.9	13.32	37.85	107	285	P	V
		5455.8	36.68	-17.32	54	28.29	32.91	13.33	37.85	107	285	A	V



802.11n HT20 CH 48 5240MHz		5013.78	47.68	-26.32	74	39.8	33.07	12.5	37.69	400	127	P	H
		5150	38.42	-15.58	54	30.3	33.1	12.76	37.74	400	127	A	H
	*	5240	107.84	-	-	99.85	32.84	12.93	37.78	400	127	P	H
	*	5240	100.24	-	-	92.25	32.84	12.93	37.78	400	127	A	H
		5423.88	46.61	-27.39	74	38.26	32.9	13.29	37.84	400	127	P	H
		5460	36.71	-17.29	54	28.31	32.92	13.34	37.86	400	127	A	H
		5143	47.4	-26.6	74	39.3	33.1	12.74	37.74	109	284	P	V
		5150	37.57	-16.43	54	29.45	33.1	12.76	37.74	109	284	A	V
	*	5240	105.82	-	-	97.83	32.84	12.93	37.78	109	284	P	V
	*	5240	97.84	-	-	89.85	32.84	12.93	37.78	109	284	A	V
		5452.16	47.04	-26.96	74	38.66	32.9	13.33	37.85	109	284	P	V
		5459.44	36.67	-17.33	54	28.27	32.92	13.34	37.86	109	284	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	49.81	-18.39	68.2	33.91	38.6	18.91	41.61	-	-	P	H
		11026	52.35	-21.65	74	35.79	38.7	19.57	41.71	-	-	P	H
		11026	40.78	-13.22	54	24.22	38.7	19.57	41.71	-	-	A	H
		13369	53.71	-20.29	74	35.37	39.94	21.57	43.17	-	-	P	H
		13369	42.64	-11.36	54	24.3	39.94	21.57	43.17	-	-	A	H
		15540	50.96	-23.04	74	34.66	37.98	23.1	44.78	396	168	P	H
		15540	40.16	-13.84	54	23.86	37.98	23.1	44.78	396	168	A	H
		17846	55.47	-18.53	74	35.64	40.61	24.58	45.36	-	-	P	H
		17846	45.32	-8.68	54	25.49	40.61	24.58	45.36	-	-	A	H
		10360	50.26	-17.94	68.2	34.36	38.6	18.91	41.61	-	-	P	V
		11048	52.24	-21.76	74	35.71	38.7	19.59	41.76	-	-	P	V
		11048	40.67	-13.33	54	24.14	38.7	19.59	41.76	-	-	A	V
		13314	52.67	-21.33	74	34.48	39.83	21.52	43.16	-	-	P	V
		13314	42.45	-11.55	54	24.26	39.83	21.52	43.16	-	-	A	V
		15540	50.58	-23.42	74	34.28	37.98	23.1	44.78	400	258	P	V
		15540	40.63	-13.37	54	24.33	37.98	23.1	44.78	400	258	A	V
		17945	55.56	-18.44	74	34.93	41.41	24.65	45.43	-	-	P	V
		17945	46.23	-7.77	54	25.6	41.41	24.65	45.43	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 44 5220MHz		10440	50.05	-18.15	68.2	34.19	38.56	18.99	41.69	-	-	P	H
		12423	51.58	-22.42	74	35.06	39.05	20.73	43.26	-	-	P	H
		12423	40.52	-13.48	54	24	39.05	20.73	43.26	-	-	A	H
		13380	53.1	-20.9	74	34.74	39.96	21.57	43.17	-	-	P	H
		13380	42.86	-11.14	54	24.5	39.96	21.57	43.17	-	-	A	H
		15660	50.14	-23.86	74	33.89	37.74	23.18	44.67	325	236	P	H
		15660	39.51	-14.49	54	23.26	37.74	23.18	44.67	325	236	A	H
		17945	55.59	-18.41	74	34.96	41.41	24.65	45.43	-	-	P	H
		17945	46.08	-7.92	54	25.45	41.41	24.65	45.43	-	-	A	H
		10440	50.52	-17.68	68.2	34.66	38.56	18.99	41.69	-	-	P	V
		12302	52.69	-21.31	74	36.17	39.1	20.61	43.19	-	-	P	V
		12302	40.89	-13.11	54	24.37	39.1	20.61	43.19	-	-	A	V
		13380	52.2	-21.8	74	33.84	39.96	21.57	43.17	-	-	P	V
		13380	42.77	-11.23	54	24.41	39.96	21.57	43.17	-	-	A	V
		15660	50.87	-23.13	74	34.62	37.74	23.18	44.67	215	236	P	V
		15660	39.53	-14.47	54	23.28	37.74	23.18	44.67	215	236	A	V
		17989	55.26	-18.74	74	34.33	41.72	24.67	45.46	-	-	P	V
		17989	46.25	-7.75	54	25.32	41.72	24.67	45.46	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 48 5240MHz		10480	50.24	-17.96	68.2	34.41	38.52	19.03	41.72	-	-	P	H
		12522	52.84	-21.16	74	36.09	39.22	20.82	43.29	-	-	P	H
		12522	41.59	-12.41	54	24.84	39.22	20.82	43.29	-	-	A	H
		13391	52.68	-21.32	74	34.3	39.98	21.57	43.17	-	-	P	H
		13391	43.05	-10.95	54	24.67	39.98	21.57	43.17	-	-	A	H
		15720	50.56	-23.44	74	34.31	37.64	23.22	44.61	202	90	P	H
		15720	39.74	-14.26	54	23.49	37.64	23.22	44.61	202	90	A	H
		17978	55.66	-18.34	74	34.79	41.65	24.67	45.45	-	-	P	H
		17978	46.58	-7.42	54	25.71	41.65	24.67	45.45	-	-	A	H
		10480	49.94	-18.26	68.2	34.11	38.52	19.03	41.72	-	-	P	V
		12478	52	-22	74	35.35	39.16	20.78	43.29	-	-	P	V
		12478	41.24	-12.76	54	24.59	39.16	20.78	43.29	-	-	A	V
		13248	52.36	-15.84	68.2	34.28	39.75	21.47	43.14	-	-	P	V
		13248	42.39	-11.61	54	24.31	39.75	21.47	43.14	-	-	A	V
		15720	50.45	-23.55	74	34.2	37.64	23.22	44.61	300	292	P	V
		15720	40.16	-13.84	54	23.91	37.64	23.22	44.61	300	292	A	V
		17978	54.71	-19.29	74	33.84	41.65	24.67	45.45	-	-	P	V
		17978	46.17	-7.83	54	25.3	41.65	24.67	45.45	-	-	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.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5118.32	48.16	-25.84	74	40.1	33.1	12.69	37.73	400	125	P	H
		5148.58	38.03	-15.97	54	29.92	33.1	12.75	37.74	400	125	A	H
	*	5260	109.27	-	-	101.24	32.84	12.97	37.78	400	125	P	H
	*	5260	101.51	-	-	93.48	32.84	12.97	37.78	400	125	A	H
		5354.4	47.94	-26.06	74	39.87	32.72	13.17	37.82	400	125	P	H
		5361.12	37.64	-16.36	54	29.54	32.74	13.18	37.82	400	125	A	H
		5073.1	47.91	-26.09	74	39.97	33.05	12.61	37.72	107	284	P	V
		5103.36	37.66	-16.34	54	29.62	33.1	12.67	37.73	107	284	A	V
	*	5260	106.51	-	-	98.48	32.84	12.97	37.78	107	284	P	V
	*	5260	98.91	-	-	90.88	32.84	12.97	37.78	107	284	A	V
		5357.28	47.79	-26.21	74	39.71	32.73	13.17	37.82	107	284	P	V
		5353.92	37.22	-16.78	54	29.15	32.72	13.17	37.82	107	284	A	V
802.11a CH 60 5300MHz		5139.74	48.7	-25.3	74	40.6	33.1	12.74	37.74	396	124	P	H
		5094.52	37.62	-16.38	54	29.6	33.09	12.65	37.72	396	124	A	H
	*	5300	108.59	-	-	100.33	33	13.06	37.8	396	124	P	H
	*	5300	101.14	-	-	92.88	33	13.06	37.8	396	124	A	H
		5351.28	53.28	-20.72	74	45.23	32.71	13.16	37.82	396	124	P	H
		5350.08	42.42	-11.58	54	34.38	32.7	13.16	37.82	396	124	A	H
		5020.74	47.95	-26.05	74	40.08	33.06	12.51	37.7	106	285	P	V
		5094.86	37.6	-16.4	54	29.58	33.09	12.65	37.72	106	285	A	V
	*	5300	106.81	-	-	98.55	33	13.06	37.8	106	285	P	V
	*	5300	98.9	-	-	90.64	33	13.06	37.8	106	285	A	V
		5350.8	53.53	-20.47	74	45.49	32.7	13.16	37.82	106	285	P	V
		5350.08	43.49	-10.51	54	35.45	32.7	13.16	37.82	106	285	A	V



802.11a CH 64 5320MHz	*	5320	105.52	-	-	97.35	32.88	13.1	37.81	384	132	P	H
	*	5320	97.99	-	-	89.82	32.88	13.1	37.81	384	132	A	H
		5353.44	63.79	-10.21	74	55.74	32.71	13.16	37.82	384	132	P	H
		5350.08	50.47	-3.53	54	42.43	32.7	13.16	37.82	384	132	A	H
	*	5320	104.89	-	-	96.72	32.88	13.1	37.81	100	282	P	V
	*	5320	97.12	-	-	88.95	32.88	13.1	37.81	100	282	A	V
		5350.08	66.05	-7.95	74	58.01	32.7	13.16	37.82	100	282	P	V
		5350.08	48.4	-5.6	54	40.36	32.7	13.16	37.82	100	282	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 2 5250~5350MHz****WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	50.57	-17.63	68.2	34.68	38.56	19.07	41.74	-	-	P	H
		12071	52.84	-21.16	74	36.37	39.14	20.4	43.07	-	-	P	H
		12071	41.28	-12.72	54	24.81	39.14	20.4	43.07	-	-	A	H
		13259	52.42	-21.58	74	34.34	39.76	21.47	43.15	-	-	P	H
		13259	42.54	-11.46	54	24.46	39.76	21.47	43.15	-	-	A	H
		15720	50.76	-23.24	74	34.51	37.64	23.22	44.61	395	26	P	H
		15720	39.94	-14.06	54	23.69	37.64	23.22	44.61	395	26	A	H
		17978	54.96	-19.04	74	34.09	41.65	24.67	45.45	-	-	P	H
		17978	46.52	-7.48	54	25.65	41.65	24.67	45.45	-	-	A	H
		10520	51.17	-17.03	68.2	35.28	38.56	19.07	41.74	-	-	P	V
		12500	52.58	-21.42	74	35.88	39.2	20.8	43.3	-	-	P	V
		12500	41.28	-12.72	54	24.58	39.2	20.8	43.3	-	-	A	V
		13390	52.67	-21.33	74	34.29	39.98	21.57	43.17	-	-	P	V
		13390	42.46	-11.54	54	24.08	39.98	21.57	43.17	-	-	A	V
		15780	49.36	-24.64	74	33.2	37.46	23.25	44.55	100	257	P	V
		15780	39.65	-14.35	54	23.49	37.46	23.25	44.55	100	257	A	V
		17967	57.07	-16.93	74	36.29	41.57	24.66	45.45	-	-	P	V
		17967	47.59	-6.41	54	26.81	41.57	24.66	45.45	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 60 5300MHz		10600	51.59	-22.41	74	35.36	38.8	19.15	41.72	198	183	P	H
		10600	41.26	-12.74	54	25.03	38.8	19.15	41.72	198	183	A	H
		11103	52.06	-21.94	74	35.6	38.7	19.63	41.87	-	-	P	H
		11103	41.8	-12.2	54	25.34	38.7	19.63	41.87	-	-	A	H
		13251	52.56	-21.44	74	34.49	39.75	21.47	43.15	-	-	P	H
		13251	42.88	-11.12	54	24.81	39.75	21.47	43.15	-	-	A	H
		15900	50.57	-23.43	74	34.29	37.4	23.32	44.44	298	128	P	H
		15900	40.24	-13.76	54	23.96	37.4	23.32	44.44	298	128	A	H
		17868	55.73	-18.27	74	35.69	40.81	24.6	45.37	-	-	P	H
		17868	46.36	-7.64	54	26.32	40.81	24.6	45.37	-	-	A	H
		10600	50.27	-23.73	74	34.04	38.8	19.15	41.72	400	189	P	V
		10600	42.09	-11.91	54	25.86	38.8	19.15	41.72	400	189	A	V
		12280	52.31	-21.69	74	35.77	39.12	20.6	43.18	-	-	P	V
		12280	41.97	-12.03	54	25.43	39.12	20.6	43.18	-	-	A	V
		13251	52.17	-21.83	74	34.1	39.75	21.47	43.15	-	-	P	V
		13251	42.67	-11.33	54	24.6	39.75	21.47	43.15	-	-	A	V
		15900	49.66	-24.34	74	33.38	37.4	23.32	44.44	302	177	P	V
		15900	39.4	-14.6	54	23.12	37.4	23.32	44.44	302	177	A	V
		17989	55.53	-18.47	74	34.6	41.72	24.67	45.46	-	-	P	V
		17989	46.74	-7.26	54	25.81	41.72	24.67	45.46	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz		10640	50.2	-23.8	74	33.89	38.84	19.19	41.72	195	175	P	H
		10640	41.21	-12.79	54	24.9	38.84	19.19	41.72	195	175	A	H
		11488	52.31	-21.69	74	36.1	38.92	19.93	42.64	-	-	P	H
		11488	40.38	-13.62	54	24.17	38.92	19.93	42.64	-	-	A	H
		13303	51.99	-22.01	74	33.82	39.81	21.51	43.15	-	-	P	H
		13303	42.39	-11.61	54	24.22	39.81	21.51	43.15	-	-	A	H
		15960	50.05	-23.95	74	33.55	37.52	23.36	44.38	159	214	P	H
		15960	41.64	-12.36	54	25.14	37.52	23.36	44.38	159	214	A	H
		17978	55.68	-18.32	74	34.81	41.65	24.67	45.45	-	-	P	H
		17978	46.17	-7.83	54	25.3	41.65	24.67	45.45	-	-	A	H
		10640	51.13	-22.87	74	34.82	38.84	19.19	41.72	100	168	P	V
		10640	41.43	-12.57	54	25.12	38.84	19.19	41.72	100	168	A	V
		12588	52.29	-21.71	74	35.38	39.29	20.88	43.26	-	-	P	V
		12588	41.2	-12.8	54	24.29	39.29	20.88	43.26	-	-	A	V
		13358	52.22	-21.78	74	33.9	39.92	21.56	43.16	-	-	P	V
		13358	42.48	-11.52	54	24.16	39.92	21.56	43.16	-	-	A	V
		15960	50.25	-23.75	74	33.75	37.52	23.36	44.38	108	139	P	V
		15960	41.85	-12.15	54	25.35	37.52	23.36	44.38	108	139	A	V
		17945	55.52	-18.48	74	34.89	41.41	24.65	45.43	-	-	P	V
		17945	45.88	-8.12	54	25.25	41.41	24.65	45.43	-	-	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.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5097.92	47.75	-26.25	74	39.72	33.1	12.66	37.73	400	127	P	H
		5149.94	37.91	-16.09	54	29.8	33.1	12.75	37.74	400	127	A	H
	*	5260	108.02	-	-	99.99	32.84	12.97	37.78	400	127	P	H
	*	5260	100.49	-	-	92.46	32.84	12.97	37.78	400	127	A	H
		5356.08	48.39	-25.61	74	40.32	32.72	13.17	37.82	400	127	P	H
		5361.12	37.48	-16.52	54	29.38	32.74	13.18	37.82	400	127	A	H
		5082.96	48.66	-25.34	74	40.68	33.07	12.63	37.72	107	286	P	V
		5097.58	37.62	-16.38	54	29.59	33.1	12.66	37.73	107	286	A	V
	*	5260	106.76	-	-	98.73	32.84	12.97	37.78	107	286	P	V
	*	5260	98.17	-	-	90.14	32.84	12.97	37.78	107	286	A	V
		5358.24	47.82	-26.18	74	39.74	32.73	13.17	37.82	107	286	P	V
		5352.96	37.06	-16.94	54	29.01	32.71	13.16	37.82	107	286	A	V
802.11n HT20 CH 60 5300MHz		5144.16	47.36	-26.64	74	39.26	33.1	12.74	37.74	355	135	P	H
		5100.3	37.46	-16.54	54	29.43	33.1	12.66	37.73	355	135	A	H
	*	5300	108.12	-	-	99.86	33	13.06	37.8	355	135	P	H
	*	5300	100.62	-	-	92.36	33	13.06	37.8	355	135	A	H
		5351.52	54.92	-19.08	74	46.87	32.71	13.16	37.82	355	135	P	H
		5350.08	43.63	-10.37	54	35.59	32.7	13.16	37.82	355	135	A	H
		5076.5	48.07	-25.93	74	40.12	33.05	12.62	37.72	100	283	P	V
		5097.58	37.41	-16.59	54	29.38	33.1	12.66	37.73	100	283	A	V
	*	5300	105.78	-	-	97.52	33	13.06	37.8	100	283	P	V
	*	5300	98.05	-	-	89.79	33	13.06	37.8	100	283	A	V
		5358	53.86	-20.14	74	45.78	32.73	13.17	37.82	100	283	P	V
		5350.08	43.4	-10.6	54	35.36	32.7	13.16	37.82	100	283	A	V



802.11n HT20 CH 64 5320MHz	*	5320	106.51	-	-	98.34	32.88	13.1	37.81	365	133	P	H
	*	5320	98.05	-	-	89.88	32.88	13.1	37.81	365	133	A	H
		5352.32	66.19	-7.81	74	58.14	32.71	13.16	37.82	365	133	P	H
		5350.08	50.4	-3.6	54	42.36	32.7	13.16	37.82	365	133	A	H
	*	5320	103.45	-	-	95.28	32.88	13.1	37.81	100	282	P	V
	*	5320	95.79	-	-	87.62	32.88	13.1	37.81	100	282	A	V
		5351.52	65.96	-8.04	74	57.91	32.71	13.16	37.82	100	282	P	V
		5350.08	47.75	-6.25	54	39.71	32.7	13.16	37.82	100	282	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	49.39	-18.81	68.2	33.5	38.56	19.07	41.74	-	-	P	H
		10806	52.14	-21.86	74	35.39	39.08	19.36	41.69	-	-	P	H
		10806	40.87	-13.13	54	24.12	39.08	19.36	41.69	-	-	A	H
		13314	52.53	-21.47	74	34.34	39.83	21.52	43.16	-	-	P	H
		13314	42.51	-11.49	54	24.32	39.83	21.52	43.16	-	-	A	H
		15780	51.99	-22.01	74	35.83	37.46	23.25	44.55	250	33	P	H
		15780	41.44	-12.56	54	25.28	37.46	23.25	44.55	250	33	A	H
		17912	54.85	-19.15	74	34.46	41.18	24.62	45.41	-	-	P	H
		17912	45.72	-8.28	54	25.33	41.18	24.62	45.41	-	-	A	H
		10520	49.38	-18.82	68.2	33.49	38.56	19.07	41.74	-	-	P	V
		12544	52.07	-21.93	74	35.27	39.24	20.84	43.28	-	-	P	V
		12544	41.01	-12.99	54	24.21	39.24	20.84	43.28	-	-	A	V
		13380	52.71	-21.29	74	34.35	39.96	21.57	43.17	-	-	P	V
		13380	42.51	-11.49	54	24.15	39.96	21.57	43.17	-	-	A	V
		15780	49.83	-24.17	74	33.67	37.46	23.25	44.55	100	64	P	V
		15780	41.33	-12.67	54	25.17	37.46	23.25	44.55	100	64	A	V
		17956	55.09	-18.91	74	34.39	41.49	24.65	45.44	-	-	P	V
		17956	45.94	-8.06	54	25.24	41.49	24.65	45.44	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 60 5300MHz		10600	49.16	-24.84	74	32.93	38.8	19.15	41.72	-	-	P	H
		10971	52.02	-21.98	74	35.43	38.73	19.52	41.66	-	-	P	H
		10971	40.81	-13.19	54	24.22	38.73	19.52	41.66	-	-	A	H
		13380	54.5	-19.5	74	36.14	39.96	21.57	43.17	-	-	P	H
		13380	42.67	-11.33	54	24.31	39.96	21.57	43.17	-	-	A	H
		15900	49.82	-24.18	74	33.54	37.4	23.32	44.44	350	47	P	H
		15900	41.67	-12.33	54	25.39	37.4	23.32	44.44	350	47	A	H
		17989	54.9	-19.1	74	33.97	41.72	24.67	45.46	-	-	P	H
		17989	46.28	-7.72	54	25.35	41.72	24.67	45.46	-	-	A	H
		10600	49.66	-24.34	74	33.43	38.8	19.15	41.72	-	-	P	V
		11213	52.1	-21.9	74	35.66	38.81	19.72	42.09	-	-	P	V
		11213	40.77	-13.23	54	24.33	38.81	19.72	42.09	-	-	A	V
		13347	52.88	-21.12	74	34.6	39.89	21.55	43.16	-	-	P	V
		13347	42.64	-11.36	54	24.36	39.89	21.55	43.16	-	-	A	V
		15900	49.46	-24.54	74	33.18	37.4	23.32	44.44	128	47	P	V
		15900	41.6	-12.4	54	25.32	37.4	23.32	44.44	128	47	A	V
		17956	54.74	-19.26	74	34.04	41.49	24.65	45.44	-	-	P	V
		17956	46.05	-7.95	54	25.35	41.49	24.65	45.44	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 64 5320MHz		10640	49.94	-24.06	74	33.63	38.84	19.19	41.72	100	128	P	H
		10640	41.57	-12.43	54	25.26	38.84	19.19	41.72	100	128	A	H
		12610	51.68	-22.32	74	34.72	39.32	20.9	43.26	-	-	P	H
		12610	41.33	-12.67	54	24.37	39.32	20.9	43.26	-	-	A	H
		13314	53.12	-20.88	74	34.93	39.83	21.52	43.16	-	-	P	H
		13314	42.4	-11.6	54	24.21	39.83	21.52	43.16	-	-	A	H
		15960	50.18	-23.82	74	33.68	37.52	23.36	44.38	130	231	P	H
		15960	41.88	-12.12	54	25.38	37.52	23.36	44.38	130	231	A	H
		17956	54.6	-19.4	74	33.9	41.49	24.65	45.44	-	-	P	H
		17956	46.05	-7.95	54	25.35	41.49	24.65	45.44	-	-	A	H
		10640	50.58	-23.42	74	34.27	38.84	19.19	41.72	150	47	P	V
		10640	41.74	-12.26	54	25.43	38.84	19.19	41.72	150	47	A	V
		12687	52.33	-21.67	74	35.11	39.47	20.98	43.23	-	-	P	V
		12687	41.37	-12.63	54	24.15	39.47	20.98	43.23	-	-	A	V
		13325	52.77	-21.23	74	34.55	39.85	21.53	43.16	-	-	P	V
		13325	42.56	-11.44	54	24.34	39.85	21.53	43.16	-	-	A	V
		15960	49.62	-24.38	74	33.12	37.52	23.36	44.38	168	358	P	V
		15960	41.89	-12.11	54	25.39	37.52	23.36	44.38	168	358	A	V
		18000	55.34	-18.66	74	34.33	41.8	24.68	45.47	-	-	P	V
		18000	46.14	-7.86	54	25.13	41.8	24.68	45.47	-	-	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.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5459.12	55.66	-18.34	74	47.26	32.92	13.34	37.86	371	125	P	H
		5470	62.23	-5.97	68.2	53.8	32.94	13.35	37.86	371	125	P	H
		5460	45.68	-8.32	54	37.28	32.92	13.34	37.86	371	125	A	H
	*	5500	104.83	-	-	96.31	33	13.39	37.87	371	125	P	H
	*	5500	97.19	-	-	88.67	33	13.39	37.87	371	125	A	H
		5459.44	53.99	-20.01	74	45.59	32.92	13.34	37.86	100	292	P	V
		5469.52	60.73	-7.47	68.2	52.3	32.94	13.35	37.86	100	292	P	V
		5460	43.36	-10.64	54	34.96	32.92	13.34	37.86	100	292	A	V
	*	5500	103.68	-	-	95.16	33	13.39	37.87	100	292	P	V
	*	5500	96.03	-	-	87.51	33	13.39	37.87	100	292	A	V
802.11a CH 116 5580MHz		5456.32	47.61	-26.39	74	39.22	32.91	13.33	37.85	215	64	P	H
		5463.52	48.24	-19.96	68.2	39.83	32.93	13.34	37.86	215	64	P	H
		5459.44	37.6	-16.4	54	29.2	32.92	13.34	37.86	215	64	A	H
	*	5580	109.38	-	-	100.7	33.08	13.49	37.89	215	64	P	H
	*	5580	101.8	-	-	93.12	33.08	13.49	37.89	215	64	A	H
		5733.5	48.29	-19.91	68.2	38.84	33.8	13.57	37.92	215	64	P	H
		5456.56	47.85	-26.15	74	39.46	32.91	13.33	37.85	101	302	P	V
		5462.32	47.4	-20.8	68.2	39	32.92	13.34	37.86	101	302	P	V
		5459.92	37.19	-16.81	54	28.79	32.92	13.34	37.86	101	302	A	V
	*	5580	105.98	-	-	97.3	33.08	13.49	37.89	101	302	P	V
	*	5580	98.25	-	-	89.57	33.08	13.49	37.89	101	302	A	V
		5761.535	48.4	-19.8	68.2	38.83	33.92	13.58	37.93	101	302	P	V



802.11a CH 140 5700MHz	*	5700	106.33	-	-	97.08	33.6	13.56	37.91	221	64	P	H
	*	5700	98.54	-	-	89.29	33.6	13.56	37.91	221	64	A	H
		5725.48	64.55	-3.65	68.2	55.15	33.75	13.57	37.92	221	64	P	H
	*	5700	102.48	-	-	93.23	33.6	13.56	37.91	150	97	P	V
	*	5700	94.7	-	-	85.45	33.6	13.56	37.91	150	97	A	V
		5725.64	61.31	-6.89	68.2	51.91	33.75	13.57	37.92	150	97	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	50.42	-23.58	74	33.83	38.7	19.55	41.66	100	172	P	H
		11000	42.52	-11.48	54	25.93	38.7	19.55	41.66	100	172	A	H
		12137	52.14	-21.86	74	35.58	39.2	20.46	43.1	-	-	P	H
		12137	40.78	-13.22	54	24.22	39.2	20.46	43.1	-	-	A	H
		13369	52.43	-21.57	74	34.09	39.94	21.57	43.17	-	-	P	H
		13369	42.5	-11.5	54	24.16	39.94	21.57	43.17	-	-	A	H
		16500	50.38	-17.82	68.2	32.84	38.2	23.72	44.38	-	-	P	H
		17956	55.57	-18.43	74	34.87	41.49	24.65	45.44	-	-	P	H
		17956	46.23	-7.77	54	25.53	41.49	24.65	45.44	-	-	A	H
		11000	50.61	-23.39	74	34.02	38.7	19.55	41.66	350	280	P	V
		11000	42.57	-11.43	54	25.98	38.7	19.55	41.66	350	280	A	V
		12676	52.43	-21.57	74	35.24	39.45	20.97	43.23	-	-	P	V
		12676	41.42	-12.58	54	24.23	39.45	20.97	43.23	-	-	A	V
		13391	53.12	-20.88	74	34.74	39.98	21.57	43.17	-	-	P	V
		13391	42.73	-11.27	54	24.35	39.98	21.57	43.17	-	-	A	V
		16500	49.89	-18.31	68.2	32.35	38.2	23.72	44.38	-	-	P	V
		17978	55.51	-18.49	74	34.64	41.65	24.67	45.45	-	-	P	V
		17978	46.13	-7.87	54	25.26	41.65	24.67	45.45	-	-	A	V
		11000	50.61	-23.39	74	34.02	38.7	19.55	41.66	350	280	P	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 116 5580MHz		11160	49.65	-24.35	74	33.19	38.76	19.68	41.98	137	241	P	H
		11160	41.71	-12.29	54	25.25	38.76	19.68	41.98	137	241	A	H
		12577	51.77	-22.23	74	34.89	39.28	20.87	43.27	-	-	P	H
		12577	41.21	-12.79	54	24.33	39.28	20.87	43.27	-	-	A	H
		13314	52.25	-21.75	74	34.06	39.83	21.52	43.16	-	-	P	H
		13314	42.32	-11.68	54	24.13	39.83	21.52	43.16	-	-	A	H
		16735	50.43	-17.77	68.2	32.73	38.23	23.87	44.4	-	-	P	H
		17989	54.78	-19.22	74	33.85	41.72	24.67	45.46	-	-	P	H
		17989	46.28	-7.72	54	25.35	41.72	24.67	45.46	-	-	A	H
		11160	50.11	-23.89	74	33.65	38.76	19.68	41.98	173	255	P	V
		11160	41.8	-12.2	54	25.34	38.76	19.68	41.98	173	255	A	V
		12478	52.12	-21.88	74	35.47	39.16	20.78	43.29	-	-	P	V
		12478	40.91	-13.09	54	24.26	39.16	20.78	43.29	-	-	A	V
		13369	53.76	-20.24	74	35.42	39.94	21.57	43.17	-	-	P	V
		13369	42.59	-11.41	54	24.25	39.94	21.57	43.17	-	-	A	V
		16735	50.41	-17.79	68.2	32.71	38.23	23.87	44.4	-	-	P	V
		17956	54.92	-19.08	74	34.22	41.49	24.65	45.44	-	-	P	V
		17956	46.06	-7.94	54	25.36	41.49	24.65	45.44	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 140 5700MHz		11400	49.8	-24.2	74	33.3	39.1	19.86	42.46	180	35	P	H
		11400	41.79	-12.21	54	25.29	39.1	19.86	42.46	180	35	A	H
		12049	51.96	-22.04	74	35.54	39.1	20.38	43.06	-	-	P	H
		12049	40.78	-13.22	54	24.36	39.1	20.38	43.06	-	-	A	H
		13391	52.37	-21.63	74	33.99	39.98	21.57	43.17	-	-	P	H
		13391	42.67	-11.33	54	24.29	39.98	21.57	43.17	-	-	A	H
		17100	50.32	-17.88	68.2	32.77	38	24.11	44.56	-	-	P	H
		17923	54.86	-19.14	74	34.38	41.26	24.63	45.41	-	-	P	H
		17923	45.8	-8.2	54	25.32	41.26	24.63	45.41	-	-	A	H
		11400	50.08	-23.92	74	33.58	39.1	19.86	42.46	100	231	P	V
		11400	41.87	-12.13	54	25.37	39.1	19.86	42.46	100	231	A	V
		12544	52.15	-21.85	74	35.35	39.24	20.84	43.28	-	-	P	V
		12544	41.04	-12.96	54	24.24	39.24	20.84	43.28	-	-	A	V
		13391	52.32	-21.68	74	33.94	39.98	21.57	43.17	-	-	P	V
		13391	42.71	-11.29	54	24.33	39.98	21.57	43.17	-	-	A	V
		17100	50.76	-17.44	68.2	33.21	38	24.11	44.56	-	-	P	V
		17978	54.3	-19.7	74	33.43	41.65	24.67	45.45	-	-	P	V
		17978	46.17	-7.83	54	25.3	41.65	24.67	45.45	-	-	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.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5459.92	54.88	-19.12	74	46.48	32.92	13.34	37.86	353	131	P	H
		5464.08	59.53	-8.67	68.2	51.12	32.93	13.34	37.86	353	131	P	H
		5459.92	44.32	-9.68	54	35.92	32.92	13.34	37.86	353	131	A	H
	*	5500	103.69	-	-	95.17	33	13.39	37.87	353	131	P	H
	*	5500	95.77	-	-	87.25	33	13.39	37.87	353	131	A	H
		5458.64	53.27	-20.73	74	44.87	32.92	13.34	37.86	100	295	P	V
		5468.72	57.48	-10.72	68.2	49.05	32.94	13.35	37.86	100	295	P	V
		5459.92	42.51	-11.49	54	34.11	32.92	13.34	37.86	100	295	A	V
	*	5500	103.43	-	-	94.91	33	13.39	37.87	100	295	P	V
	*	5500	95.36	-	-	86.84	33	13.39	37.87	100	295	A	V
802.11n HT20 CH 116 5580MHz		5455.12	48.2	-25.8	74	39.81	32.91	13.33	37.85	207	61	P	H
		5467.12	48.14	-20.06	68.2	39.72	32.93	13.35	37.86	207	61	P	H
		5459.68	38.12	-15.88	54	29.72	32.92	13.34	37.86	207	61	A	H
	*	5580	109.66	-	-	100.98	33.08	13.49	37.89	207	61	P	H
	*	5580	101.61	-	-	92.93	33.08	13.49	37.89	207	61	A	H
		5758.7	49.08	-19.12	68.2	39.51	33.92	13.58	37.93	207	61	P	H
		5430.4	49.21	-24.79	74	40.85	32.9	13.3	37.84	100	248	P	V
		5462.8	48	-20.2	68.2	39.59	32.93	13.34	37.86	100	248	P	V
		5459.92	37.61	-16.39	54	29.21	32.92	13.34	37.86	100	248	A	V
	*	5580	106.93	-	-	98.25	33.08	13.49	37.89	100	248	P	V
	*	5580	98.24	-	-	89.56	33.08	13.49	37.89	100	248	A	V
		5756.18	48.22	-19.98	68.2	38.66	33.91	13.58	37.93	100	248	P	V



802.11n HT20 CH 140 5700MHz	*	5700	106.55	-	-	97.3	33.6	13.56	37.91	393	121	P	H
	*	5700	98.63	-	-	89.38	33.6	13.56	37.91	393	121	A	H
		5726.36	64.77	-3.43	68.2	55.36	33.76	13.57	37.92	393	121	P	H
	*	5700	102.83	-	-	93.58	33.6	13.56	37.91	100	239	P	V
	*	5700	94.69	-	-	85.44	33.6	13.56	37.91	100	239	A	V
		5725.72	61.84	-6.36	68.2	52.44	33.75	13.57	37.92	100	239	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	50.98	-23.02	74	34.39	38.7	19.55	41.66	177	43	P	H
		11000	41.91	-12.09	54	25.32	38.7	19.55	41.66	177	43	A	H
		12533	51.79	-22.21	74	35.02	39.23	20.83	43.29	-	-	P	H
		12533	40.89	-13.11	54	24.12	39.23	20.83	43.29	-	-	A	H
		13325	53.06	-20.94	74	34.84	39.85	21.53	43.16	-	-	P	H
		13325	42.46	-11.54	54	24.24	39.85	21.53	43.16	-	-	A	H
		16500	49.67	-18.53	68.2	32.13	38.2	23.72	44.38	-	-	P	H
		18000	56.27	-17.73	74	35.26	41.8	24.68	45.47	-	-	P	H
		18000	46.33	-7.67	54	25.32	41.8	24.68	45.47	-	-	A	H
		11000	50.01	-23.99	74	33.42	38.7	19.55	41.66	100	58	P	V
		11000	41.9	-12.1	54	25.31	38.7	19.55	41.66	100	58	A	V
		12665	52.46	-21.54	74	35.3	39.43	20.96	43.23	-	-	P	V
		12665	41.38	-12.62	54	24.22	39.43	20.96	43.23	-	-	A	V
		13369	52.8	-21.2	74	34.46	39.94	21.57	43.17	-	-	P	V
		13369	42.65	-11.35	54	24.31	39.94	21.57	43.17	-	-	A	V
		16500	50.47	-17.73	68.2	32.93	38.2	23.72	44.38	-	-	P	V
		17956	54.61	-19.39	74	33.91	41.49	24.65	45.44	-	-	P	V
		17956	45.87	-8.13	54	25.17	41.49	24.65	45.44	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 116 5580MHz		11160	50.63	-23.37	74	34.17	38.76	19.68	41.98	137	233	P	H
		11160	41.66	-12.34	54	25.2	38.76	19.68	41.98	137	233	A	H
		12093	51.53	-22.47	74	35	39.19	20.42	43.08	-	-	P	H
		12093	40.64	-13.36	54	24.11	39.19	20.42	43.08	-	-	A	H
		13281	53.58	-20.42	74	35.46	39.78	21.49	43.15	-	-	P	H
		13281	42.44	-11.56	54	24.32	39.78	21.49	43.15	-	-	A	H
		16740	50.86	-17.34	68.2	33.16	38.22	23.88	44.4	-	-	P	H
		18000	54.55	-19.45	74	33.54	41.8	24.68	45.47	-	-	P	H
		18000	46.23	-7.77	54	25.22	41.8	24.68	45.47	-	-	A	H
		11160	50.06	-23.94	74	33.6	38.76	19.68	41.98	133	39	P	V
		11160	41.61	-12.39	54	25.15	38.76	19.68	41.98	133	39	A	V
		12632	51.36	-22.64	74	34.32	39.36	20.93	43.25	-	-	P	V
		12632	41.26	-12.74	54	24.22	39.36	20.93	43.25	-	-	A	V
		13380	52.23	-21.77	74	33.87	39.96	21.57	43.17	-	-	P	V
		13380	42.68	-11.32	54	24.32	39.96	21.57	43.17	-	-	A	V
		16740	51.71	-16.49	68.2	34.01	38.22	23.88	44.4	-	-	P	V
		17879	54.61	-19.39	74	34.48	40.91	24.6	45.38	-	-	P	V
		17879	45.45	-8.55	54	25.32	40.91	24.6	45.38	-	-	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 140 5700MHz		11400	50.49	-23.51	74	33.99	39.1	19.86	42.46	127	65	P	H
		11400	41.78	-12.22	54	25.28	39.1	19.86	42.46	127	65	A	H
		12676	51.64	-22.36	74	34.45	39.45	20.97	43.23	-	-	P	H
		12676	41.33	-12.67	54	24.14	39.45	20.97	43.23	-	-	A	H
		13380	53.52	-20.48	74	35.16	39.96	21.57	43.17	-	-	P	H
		13380	42.55	-11.45	54	24.19	39.96	21.57	43.17	-	-	A	H
		17100	51.02	-17.18	68.2	33.47	38	24.11	44.56	-	-	P	H
		17879	54.93	-19.07	74	34.8	40.91	24.6	45.38	-	-	P	H
		17879	45.26	-8.74	54	25.13	40.91	24.6	45.38	-	-	A	H
		11400	51.41	-22.59	74	34.91	39.1	19.86	42.46	100	312	P	V
		11400	41.84	-12.16	54	25.34	39.1	19.86	42.46	100	312	A	V
		12698	51.77	-22.23	74	34.5	39.5	20.99	43.22	-	-	P	V
		12698	41.57	-12.43	54	24.3	39.5	20.99	43.22	-	-	A	V
		13391	53.1	-20.9	74	34.72	39.98	21.57	43.17	-	-	P	V
		13391	42.6	-11.4	54	24.22	39.98	21.57	43.17	-	-	A	V
		17100	50.73	-17.47	68.2	33.18	38	24.11	44.56	-	-	P	V
		17934	54.92	-19.08	74	34.36	41.34	24.64	45.42	-	-	P	V
		17934	45.78	-8.22	54	25.22	41.34	24.64	45.42	-	-	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.												

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a SHF		20720	41.87	-32.13	74	42.13	37.82	16.78	54.86	-	-	P	H
		39846	52.6	-21.4	74	37.67	44.5	26.38	55.95	-	-	P	H
		39846	42.13	-11.87	54	27.2	44.5	26.38	55.95	-	-	A	H
		20720	43.43	-30.57	74	43.69	37.82	16.78	54.86	-	-	P	V
		39296	51.66	-22.34	74	37.51	44.54	26.07	56.46	-	-	P	V
		39296	41.16	-12.84	54	27.01	44.54	26.07	56.46	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		66.86	28.45	-11.55	40	50.44	11.91	1.68	35.58	-	-	P	H
		120.21	25.76	-17.74	43.5	41.65	17.43	2.2	35.52	-	-	P	H
		213.33	31.56	-11.94	43.5	49.05	15.02	2.85	35.36	-	-	P	H
		414.12	27.73	-18.27	46	36.17	22.49	3.89	34.82	-	-	P	H
		633.34	29.13	-16.87	46	32.48	26.11	4.77	34.23	-	-	P	H
		744.89	34.07	-11.93	46	34.99	27.67	5.17	33.76	-	-	P	H
		51.34	30.72	-9.28	40	51.02	13.82	1.52	35.64	-	-	P	V
		120.21	28.7	-14.8	43.5	44.59	17.43	2.2	35.52	-	-	P	V
		211.39	33.28	-10.22	43.5	50.74	15.07	2.83	35.36	-	-	P	V
		410.24	27.49	-18.51	46	36.15	22.29	3.88	34.83	-	-	P	V
		579.99	29.59	-16.41	46	33.77	25.63	4.6	34.41	-	-	P	V
		856.44	33.48	-12.52	46	32.26	28.86	5.66	33.3	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is 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	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5150	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 36		5150	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
5180MHz													

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

For Peak Limit @ 5150MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 5150MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	JC Liang	Temperature :	18~20°C
		Relative Humidity :	60~68%

Note symbol

-L	Low channel location
-R	High channel location



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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
Peak	Site : 03CH20-14Y Condition : PEAK_8E_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH20-14Y Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH20-14Y Condition : AVG_8E_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

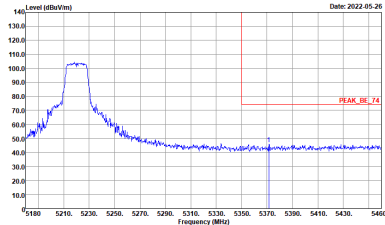
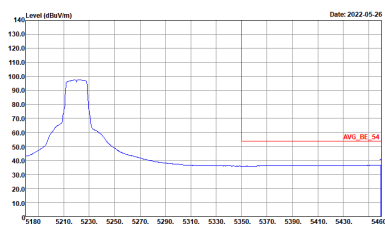


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Fundamental
Peak	Site : 03CH-D0-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Site : 03CH-D0-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	Site : 03CH-D0-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	Site : 03CH20-HV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH20-HV Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH20-HV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto	Left blank

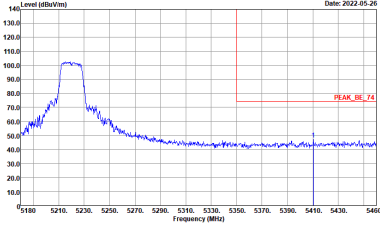
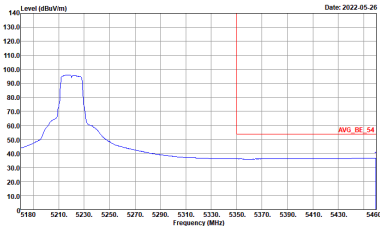


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

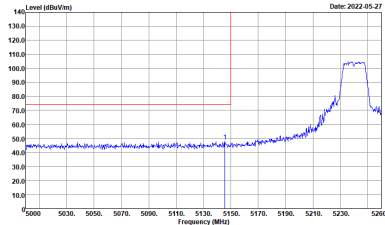
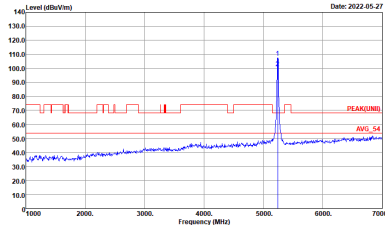
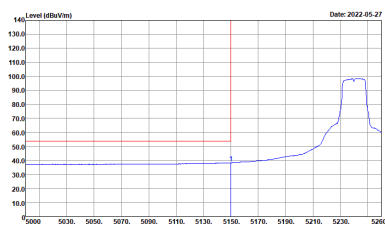


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto	Left blank

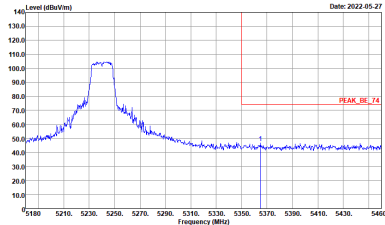
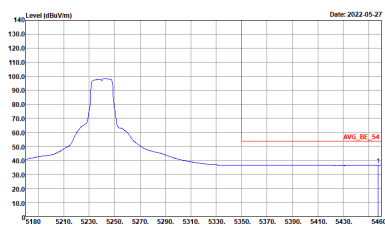


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH-D0-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH-D0-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

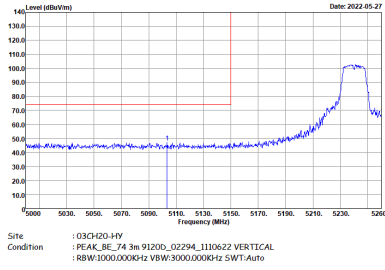
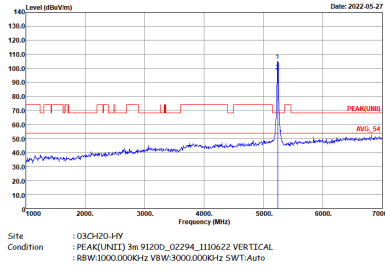
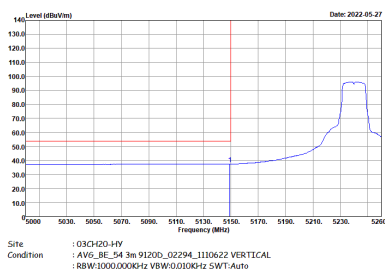


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

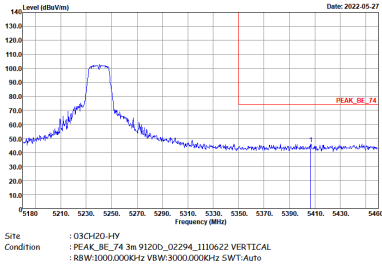
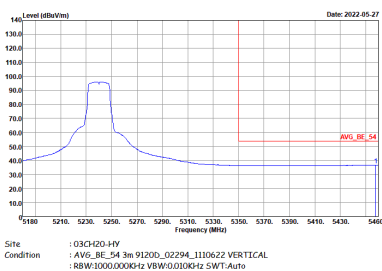


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

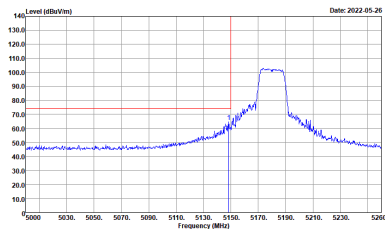
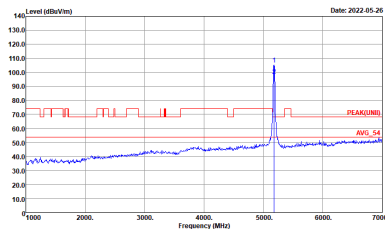
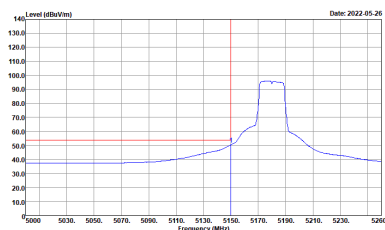


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto	Left blank

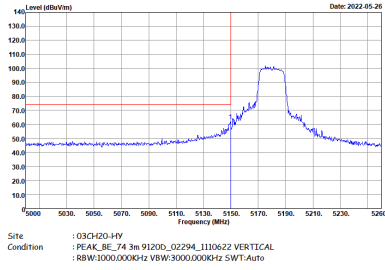
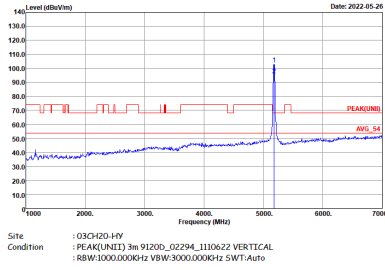
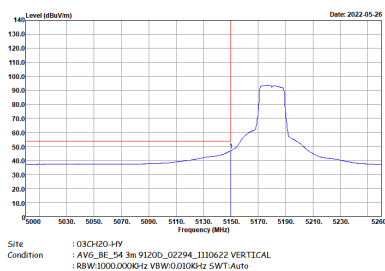


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH-D0-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH-D0-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-HV Condition : PEAK(UNL) 3m 91200_02294_1110622 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-HV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto	Left blank

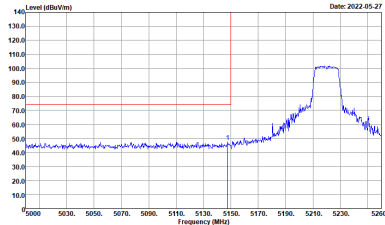
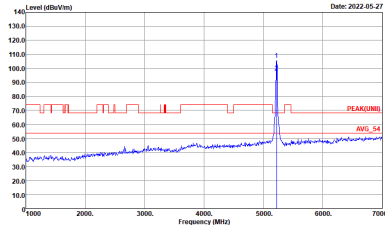
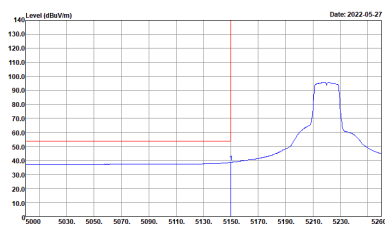


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	Site : 03CH-D0-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Site : 03CH-D0-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	Site : 03CH-D0-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

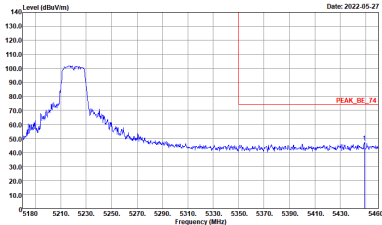
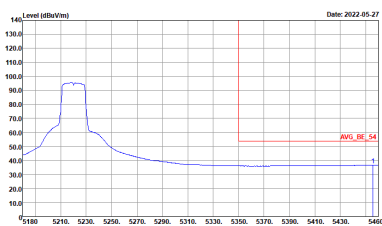


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	Site : 03CH-D0-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	Site : 03CH-D0-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

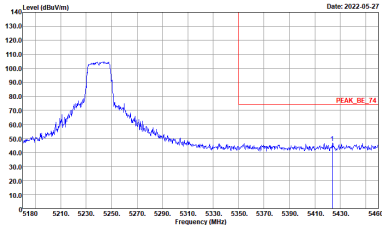
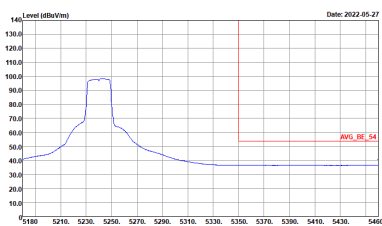


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

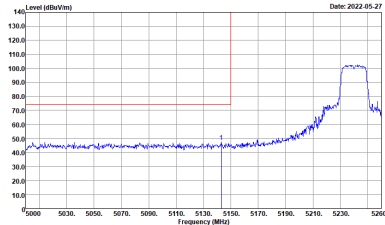
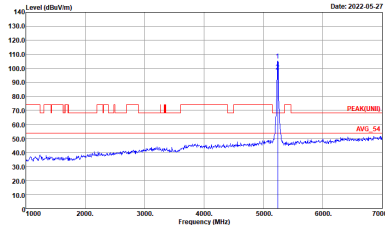
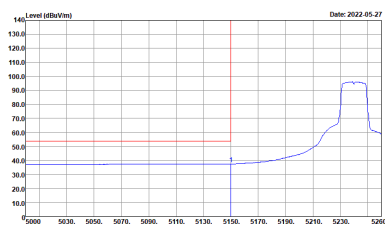


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

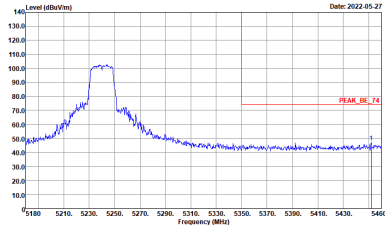
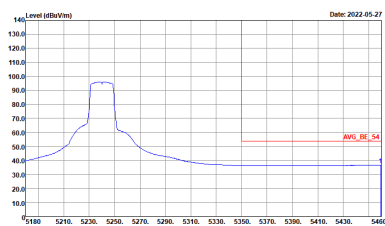


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

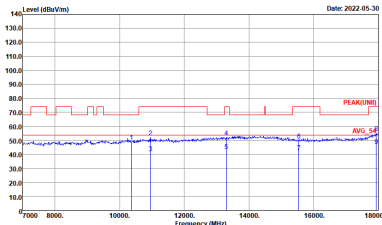
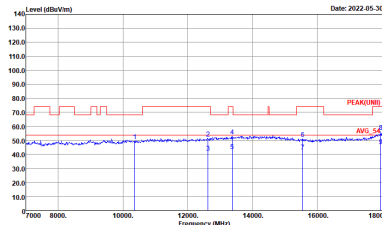


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH-D20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH-D20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site : 03CH-D20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

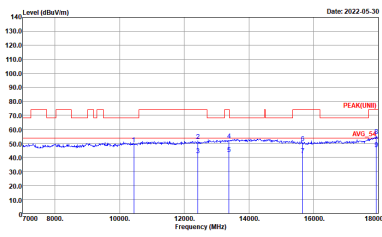
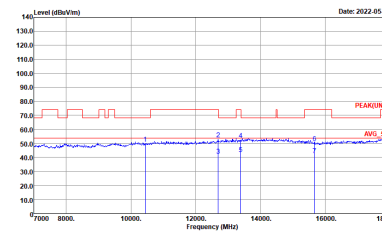


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH-D0-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	Left blank
Avg.	 Site : 03CH-D0-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto	Left blank

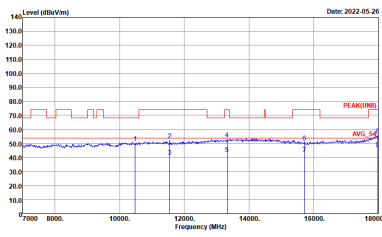
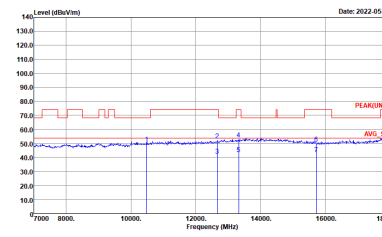
**Band 1 - 5150~5250MHz****WIFI 802.11a (Harmonic @ 3m)**

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



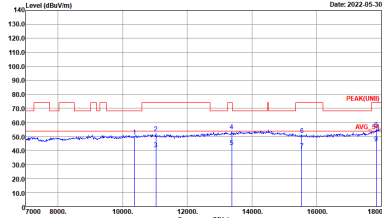
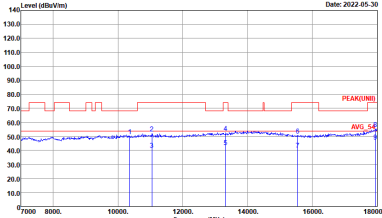
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



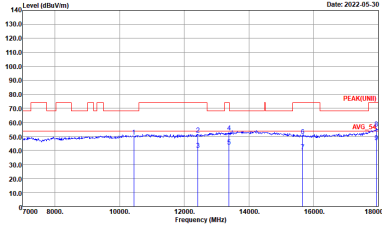
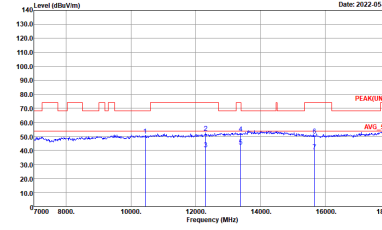
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 9120D_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 9120D_02294_1110622 VERTICAL



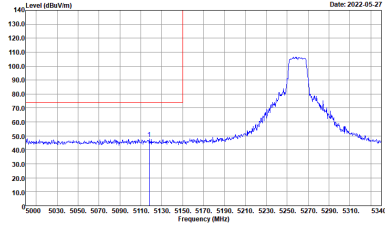
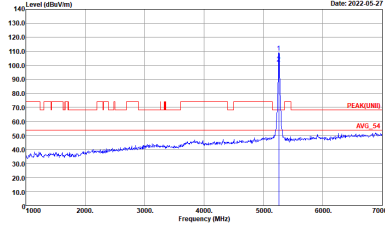
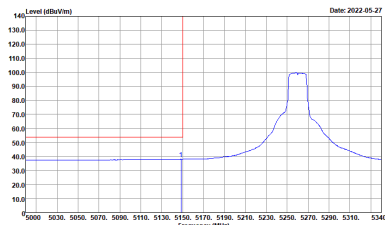
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



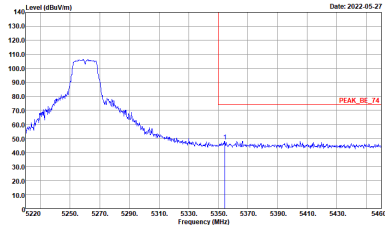
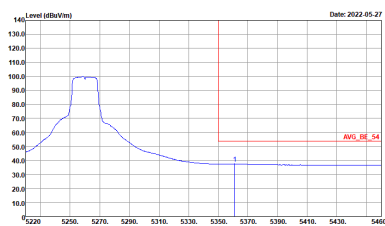
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBm/100) Date: 2022-05-30 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	Level (dBm/100) Date: 2022-05-30 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



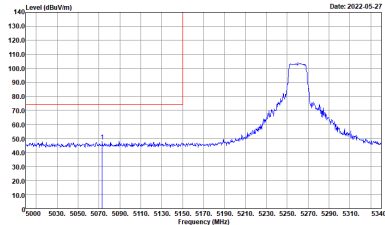
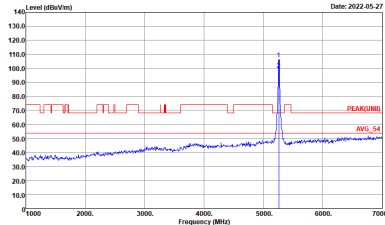
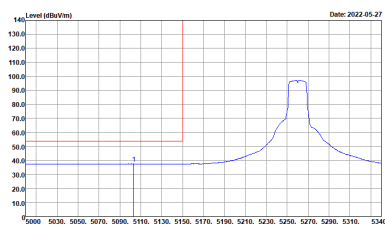
Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_8E_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_8E_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

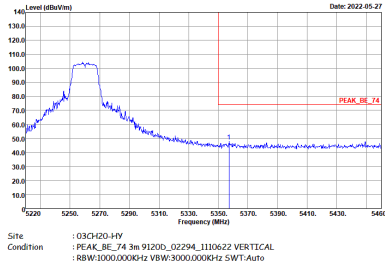
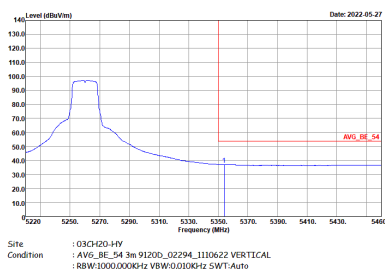


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH-D0-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH-D0-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

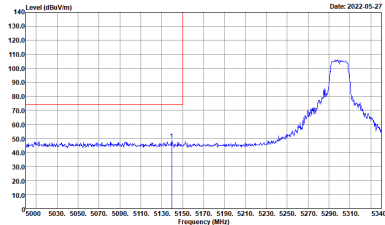
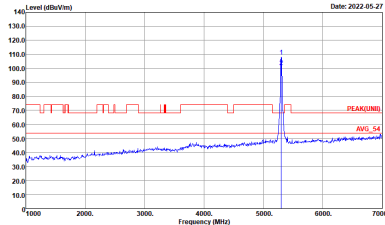
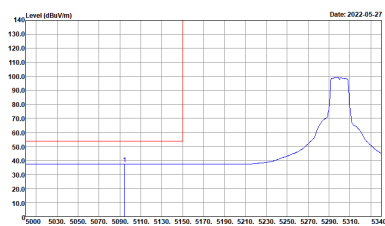


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

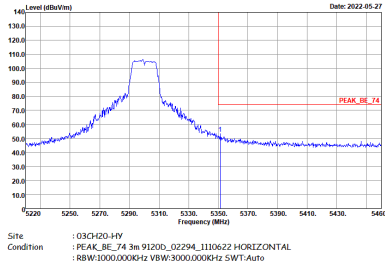
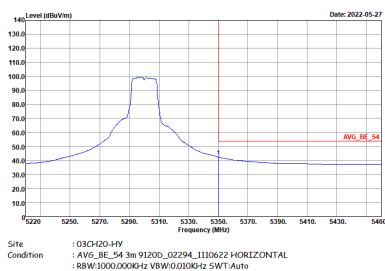


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

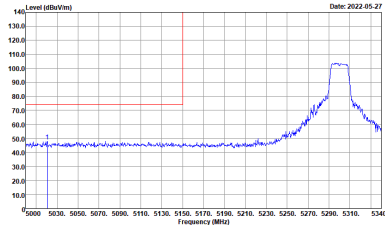
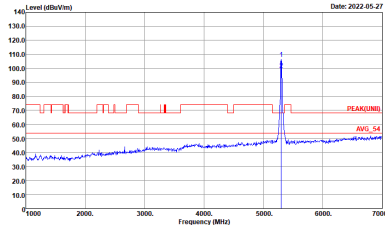
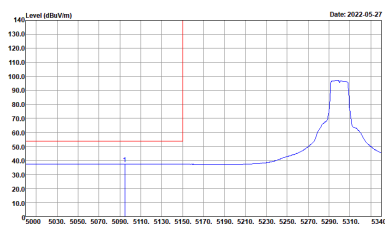


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto	Left blank

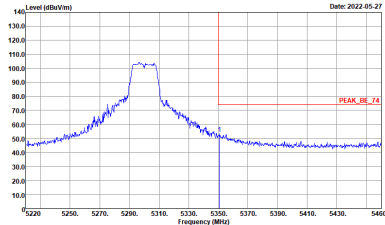
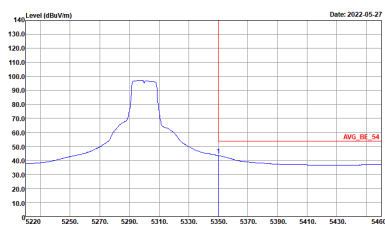


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH-D0-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	Left blank
Avg.	 Site : 03CH-D0-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto	Left blank

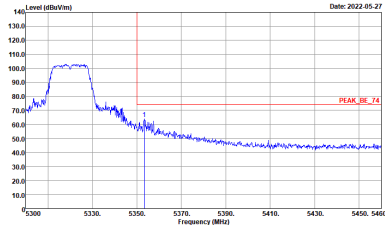
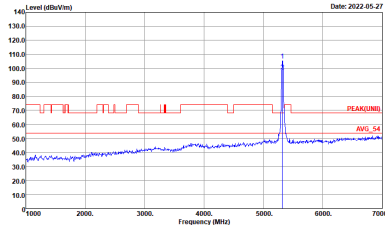
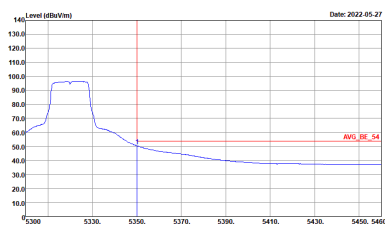


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-HV Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-HV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Left blank



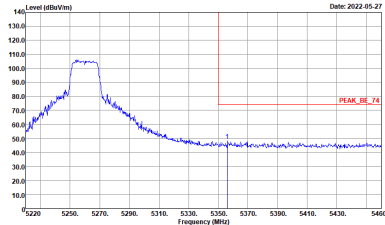
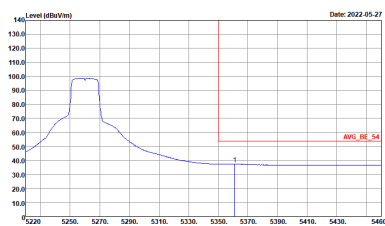
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Vertical	Fundamental
Peak	Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank



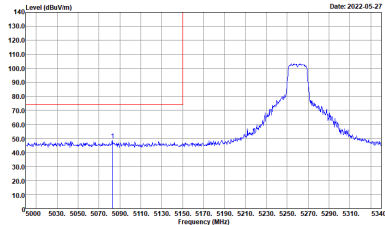
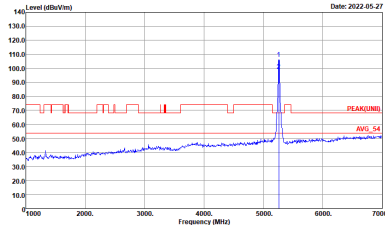
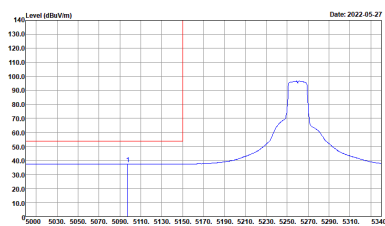
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
2	Horizontal	Fundamental
Peak	Site : 03CH20-HV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH20-HV Condition : PEAK(UNL) 3m 91200_02294_1110622 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH20-HV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Left blank

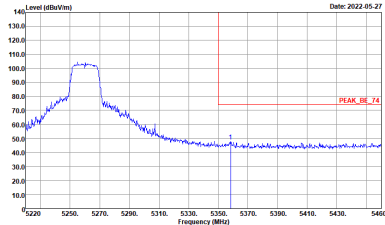
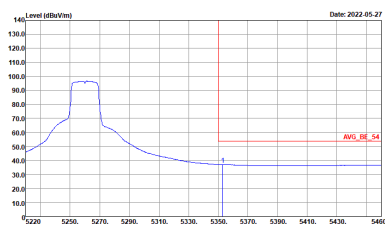


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH-D0-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH-D0-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

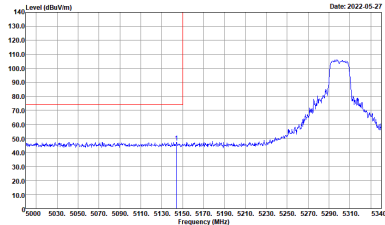
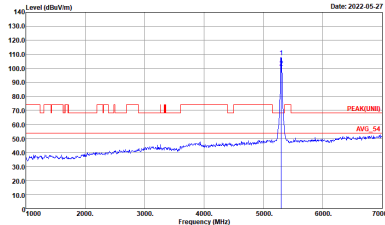
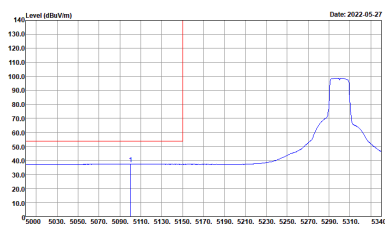


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

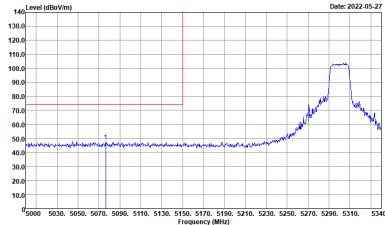
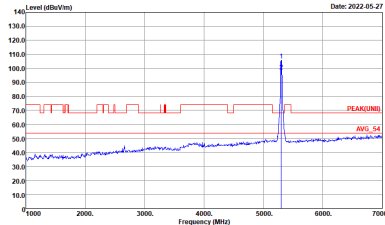
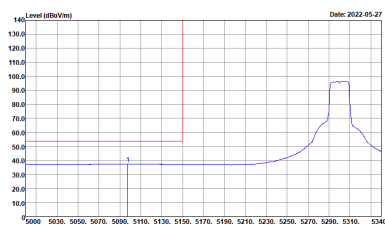


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto	Left blank

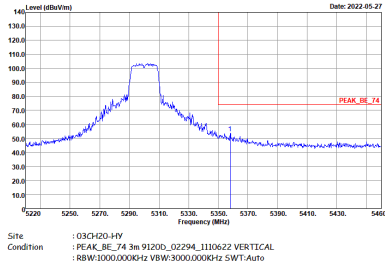
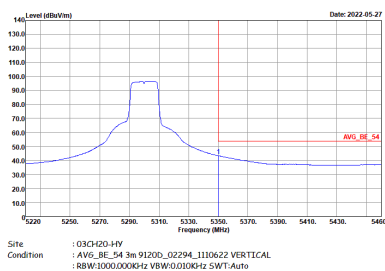


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
2	Horizontal	Vertical
Peak	Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	Left blank
Avg.	 Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Horizontal	Fundamental
Peak	Site : 03CH20-1FV Condition : PEAK_BE_74 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH20-1FV Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH20-1FV Condition : AVG_BE_54 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto	Left blank

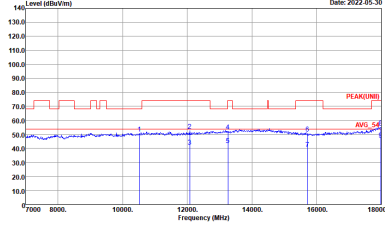
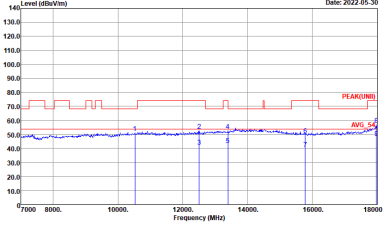


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Vertical	Fundamental
Peak	Site Condition : 03CH20-1V : PEAK_BE_74 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site Condition : 03CH20-1V : PEAK_UNI1 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site Condition : 03CH20-1V : AVG_BE_54 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Left blank



Band 2 - 5250~5350MHz

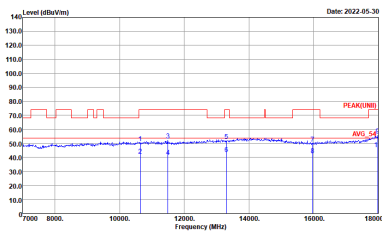
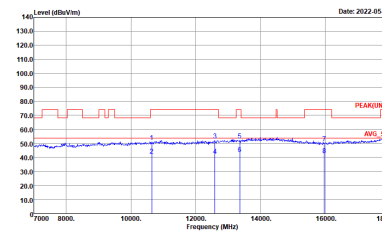
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



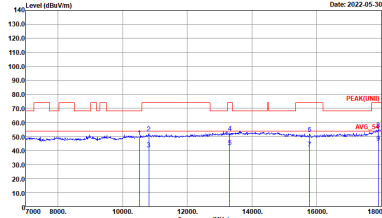
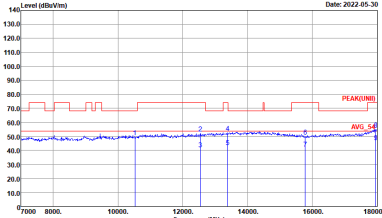
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBm/100kHz) Date: 2022-05-30 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	Level (dBm/100kHz) Date: 2022-05-30 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



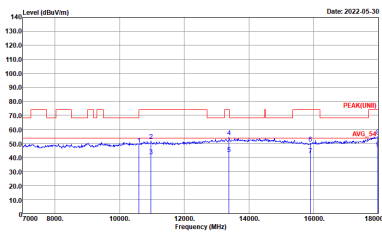
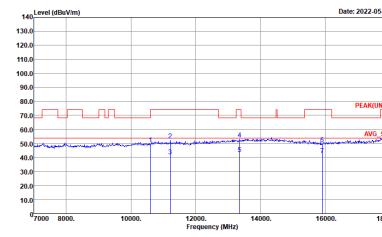
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBm/Hz) Date: 2022-05-30  Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	Level (dBm/Hz) Date: 2022-05-30  Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



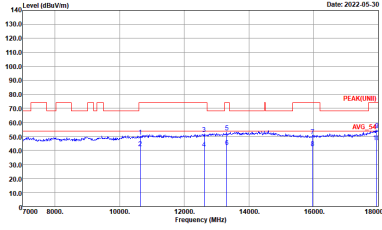
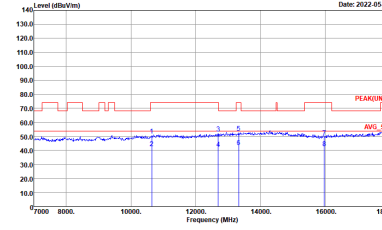
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



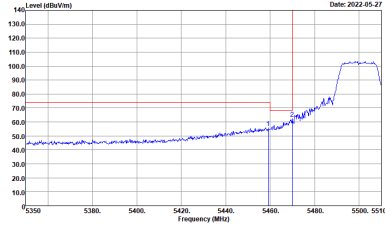
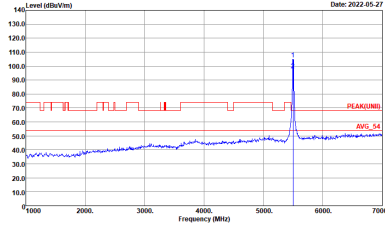
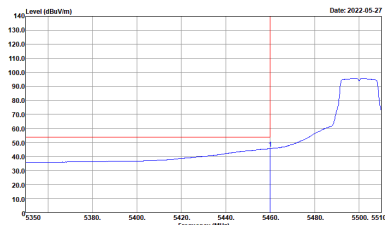
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



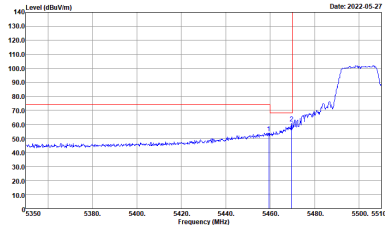
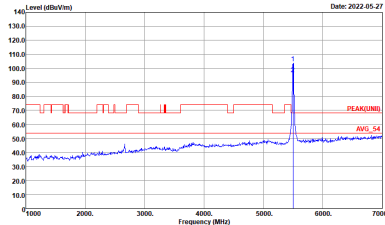
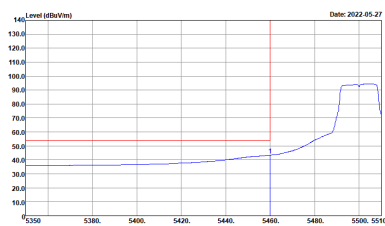
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



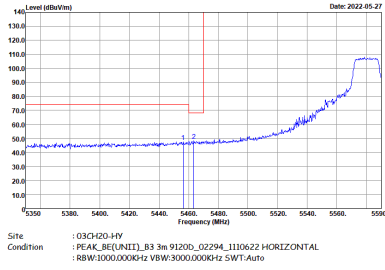
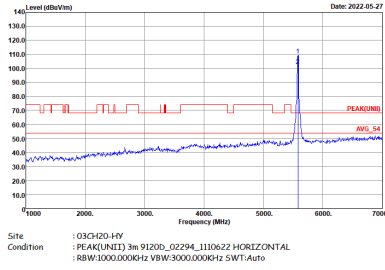
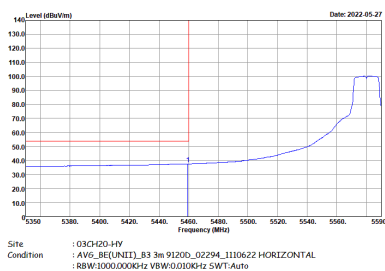
Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_8E(UNIT1)_B3 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT1) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_8E(UNIT1)_B3 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

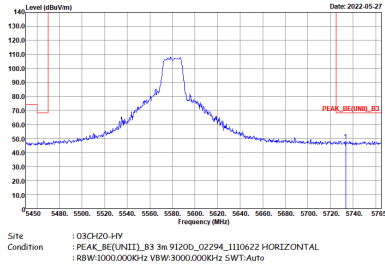


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT1)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT1) 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE(UNIT1)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

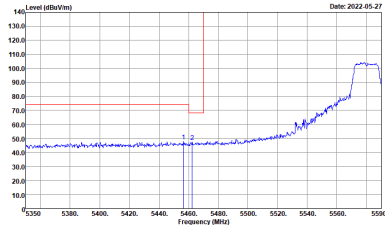
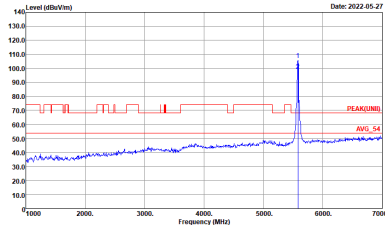
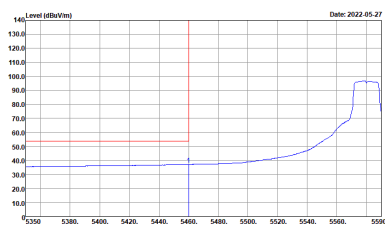


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE(UNIT1)_B3 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT1) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE(UNIT1)_B3 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Left blank

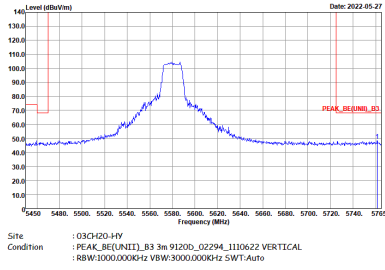


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-1/F Condition : PEAK_BE(UNIT)_R3 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Date: 2022.05.27	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE(UNIT1)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT1) 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE(UNIT1)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1/F Condition : PEAK_BE(UNIT)_R3 3m 91200_02294_1110622 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Date: 2022.05.27	Left blank



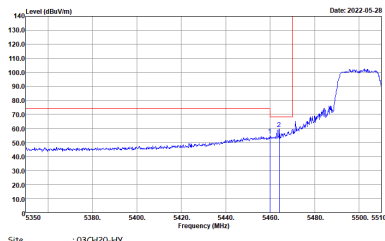
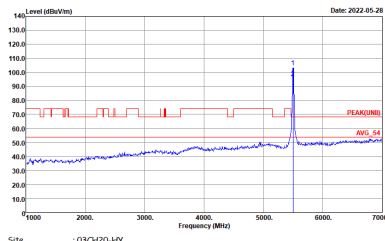
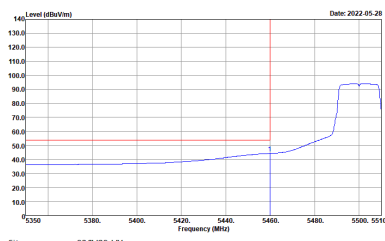
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Fundamental
Peak	140 Level (dBm/Hz) Date: 2022-05-27 PEAK_BE(UNIT)_B3 Site : 03CH20-HV Condition : PEAK_BE(UNIT)_B3 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	140 Level (dBm/Hz) Date: 2022-05-27 PEAK(UNIT) AVG_14 Site : 03CH20-HV Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Vertical	Fundamental
Peak	140 Level (dBm/Vm) Date: 2022-05-27 Site : 03CH20-1FV Condition : PEAK_BE(UNIT)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	140 Level (dBm/Vm) Date: 2022-05-27 Site : 03CH20-1FV Condition : PEAK(UNIT)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



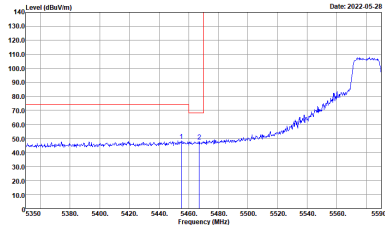
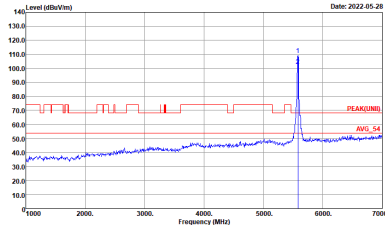
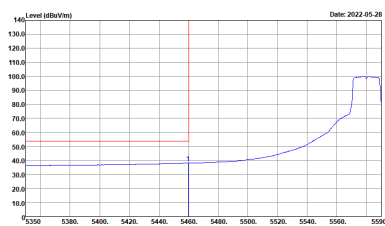
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_BE(UNIT)_B3 3m 91200_02294_1110622 HORIZONTAL RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH20-HV Condition : PEAK(UNIT)_B3 3m 91200_02294_1110622 HORIZONTAL RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site : 03CH20-HV Condition : AVG_BE(UNIT)_B3 3m 91200_02294_1110622 HORIZONTAL RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

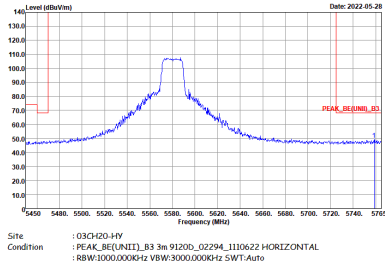


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Vertical	Fundamental
Peak	Site : 03CH20-1FV Condition : PEAK_BE(UNIT1)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	Site : 03CH20-1FV Condition : PEAK(UNIT1) 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto
Avg.	Site : 03CH20-1FV Condition : AVG_BE(UNIT1)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	Left blank

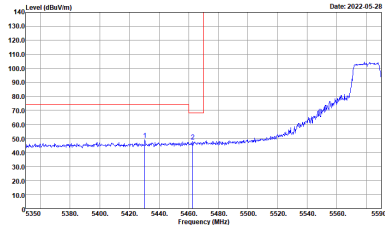
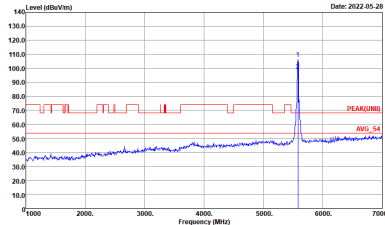
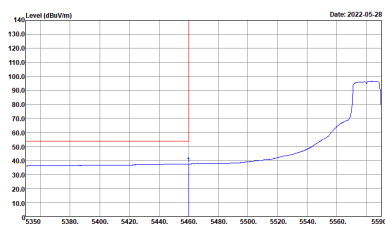


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE(UNIT1)_B3 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT1) 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE(UNIT1)_B3 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

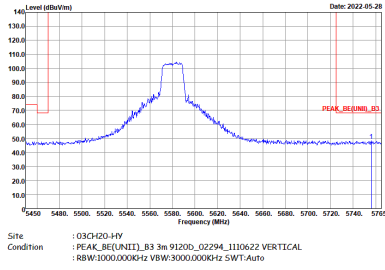


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
2	Horizontal	Fundamental
Peak		Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH20-1FV Condition : PEAK_BE(UNIT1)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-1FV Condition : PEAK(UNIT1) 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-1FV Condition : AVG_BE(UNIT1)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

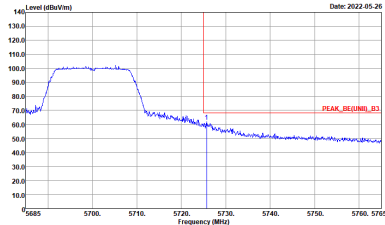
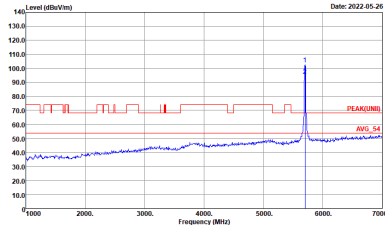


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
2	Vertical	Fundamental
Peak		Left blank



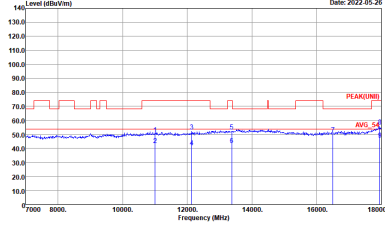
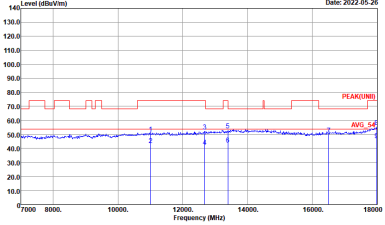
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Horizontal	Fundamental
Peak	140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 Level (dBm/Vm) 5685 5700 5715 5730 5745 5760 5765 Frequency (MHz) Date: 2022-05-26 PEAK_BE(UNIT)_B3 Site : 03CH20-HV Condition : PEAK_BE(UNIT)_B3 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 Level (dBm/Vm) 1000 2000 3000 4000 5000 6000 7000 Frequency (MHz) Date: 2022-05-26 PEAK(UNIT)_B3 Site : 03CH20-HV Condition : PEAK(UNIT)_B3 3m 91200_02294_1110622 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



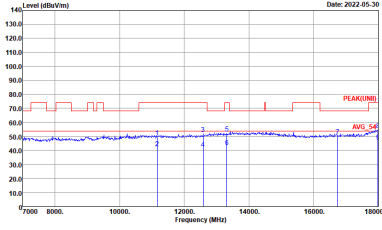
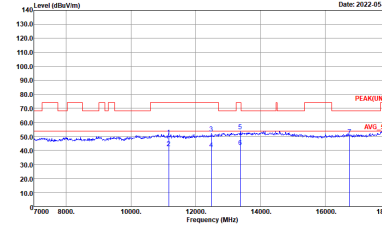
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Vertical	Fundamental
Peak.	 Site : 03CH20-HY Condition : PEAK_BE(UNIT1)_B3 3m 91200_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT1) 3m 91200_02294_1110622 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



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

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



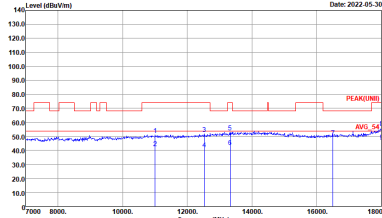
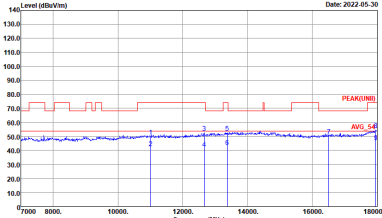
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



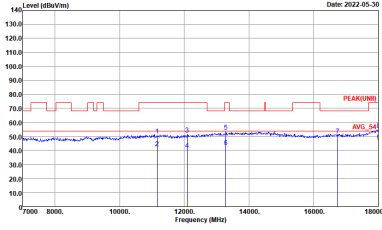
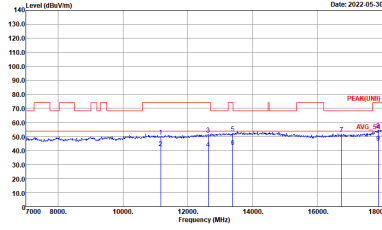
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBm/Hz) Date: 2022-05-30 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	Level (dBm/Hz) Date: 2022-05-30 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



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

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 9120D_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 9120D_02294_1110622 VERTICAL



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL

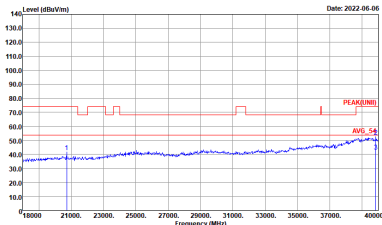
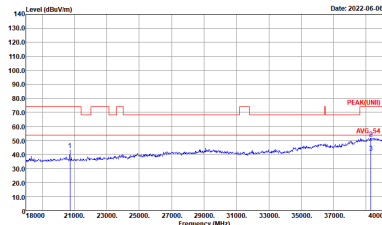


WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBm/100MHz) Date: 2022-05-30 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 HORIZONTAL	Level (dBm/100MHz) Date: 2022-05-30 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02294_1110622 VERTICAL



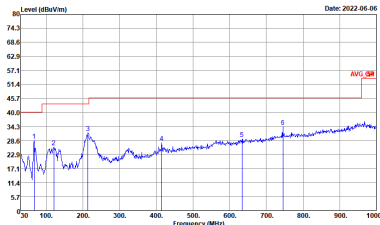
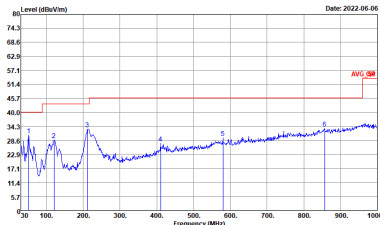
Emission above 18GHz

5GHz WIFI 802.11a (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11a SHF	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 1m SHF_00993_211130 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 1m SHF_00993_211130 VERTICAL



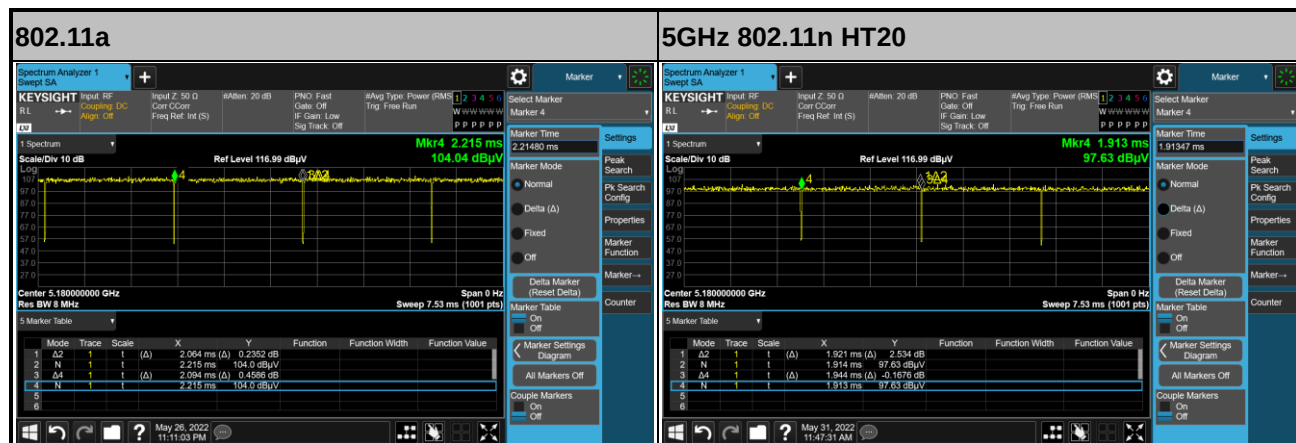
Emission below 1GHz
5GHz WIFI 802.11a (LF)

WIFI	5GHz WIFI	
ANT	802.11a LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH20-HY Condition : QP 3m LF_35606408_1101017 HORIZONTAL	 Site : 03CH20-HY Condition : QP 3m LF_35606408_1101017 VERTICAL



Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	98.57	-	-	10Hz
5GHz 802.11n HT20	98.82	-	-	10Hz



—THE END—