



FCC RADIO TEST REPORT

FCC ID : TLZ-CU603
Equipment : Wireless MCU with Integrated Wi-Fi 6
Microcontroller Module
Brand Name : AzureWave
Model Name : AW-CU603
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 07, 2024 and testing was performed from May 22, 2024 to Jul. 31, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Applicant	5
1.2 Manufacturer.....	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Modification of EUT	5
1.5 Testing Location	6
1.6 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system	9
2.5 EUT Operation Test Setup	9
2.6 Measurement Results Explanation Example.....	10
3 Test Result	11
3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement	11
3.2 Maximum Conducted Output Power Measurement	12
3.3 Power Spectral Density Measurement	13
3.4 Unwanted Emissions Measurement.....	15
3.5 AC Conducted Emission Measurement.....	19
3.6 Antenna Requirements.....	21
4 List of Measuring Equipment.....	22
5 Measurement Uncertainty	24
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	
Appendix F. Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FR450318C	01	Initial issue of report	Aug. 05, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
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	1.04 dB under the limit at 11570.00 MHz
3.5	15.207	AC Conducted Emission	Pass	8.31 dB under the limit at 0.44 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Danny Lee

Report Producer: Mila Chen

1 General Description

1.1 Applicant

AzureWave Technologies, Inc.

8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231

1.2 Manufacturer

1. AzureWave Technologies, Inc.

8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231

2. AZUREWAVE TECHNOLOGIES (VIETNAM) COMPANY LIMITED

1st floor, building 5, CN3 Land, Deep C 2A Industrial Park, Dinh Vu-Cat Hai Economic Zone, Dong Hai 2 Ward, Hai An District, HaiPhong City, Vietnam

1.3 Product Feature of Equipment Under Test

Product Feature		
General Specs Wi-Fi 2.4GHz 802.11b/g/n/ax and Wi-Fi 5GHz 802.11a/n/ac/ax		
Antenna Type WLAN: PIFA Antenna		
Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	<Ant. 1>: 5 <Ant. 2>: 5

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

1.4 Modification of EUT

No modifications made to the EUT during the testing.



1.5 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, 03CH07-HY, TH02-HY

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

FCC designation No.: TW1190

1.6 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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in two antenna degrees (Ant. degrees 0 and Ant. Degrees 90), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	-	-	-	-
	153	5765	161	5805
	-	-	165	5825

2.2 Test Mode

This device support 26/52/106/242-tone RU channel.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel.

The power for 802.11n mode is smaller than 802.11ac mode, so all other conducted and radiated test is covered by 802.11ac mode.

The final test modes include the worst data rates for each modulation shown in the table below.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11ac VHT20	MCS0
802.11ax HE20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Tx

Ch. #		Band IV : 5725-5850 MHz	
		802.11a	802.11ax HE20
L	Low	149	149
M	Middle	157	157
H	High	165	165

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
2.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0m	N/A
3.	Notebook	Lenovo	TP00116A	FCC DoC	Shielded, 1.3m	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Fixture	Azurewave	2603-i1	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "Dut labtool version 2.0.0.10.1" 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 6dB and 26dB and 99% Occupied Bandwidth Measurement

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

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

26dB and 99% Occupied bandwidth are reporting only.

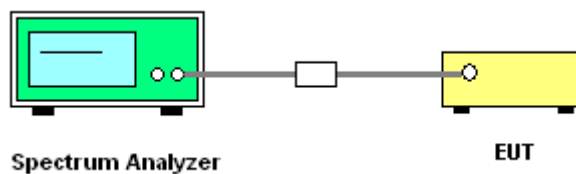
3.1.2 Measuring Instruments

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 for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup



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

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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

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

3.2.2 Measuring Instruments

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

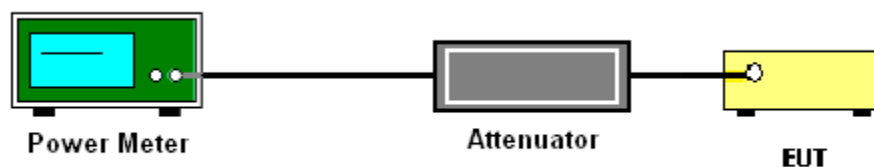
3.2.3 Test Procedures

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

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

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

3.3.2 Measuring Instruments

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.

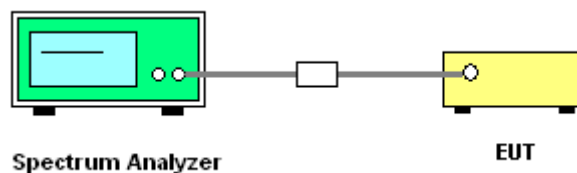
Section F) Maximum power spectral density.

Method SA-2

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

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300kHz.
 - Set VBW ≥ 1 MHz.
 - Add $10 \log(500 \text{ kHz}/\text{RBW})$ to the measured result, whereas RBW ($< 500 \text{ kHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
 - Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6 \text{ dB}$ if the duty cycle is 25 percent.
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 and the band unwanted emissions are measured through radiated measurement for band edge spurious emissions.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:
15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) Unwanted spurious emissions 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.

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

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

- (3) KDB789033 D02 v02r01 G)2)c)
 - (i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.
 - (ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

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

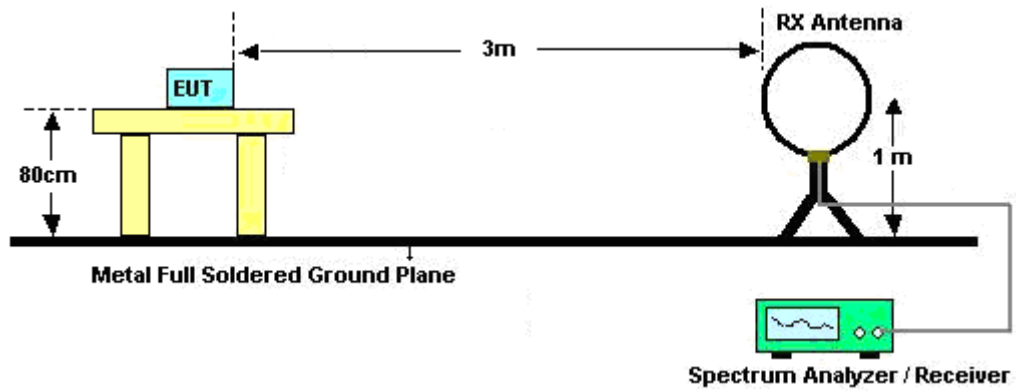
3.4.3 Test Procedures

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) 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.

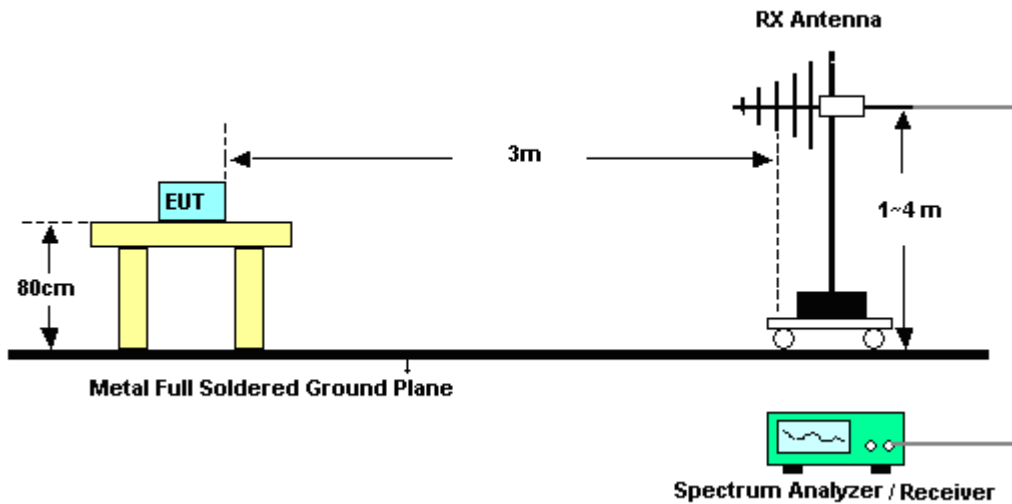
When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.4.4 Test Setup

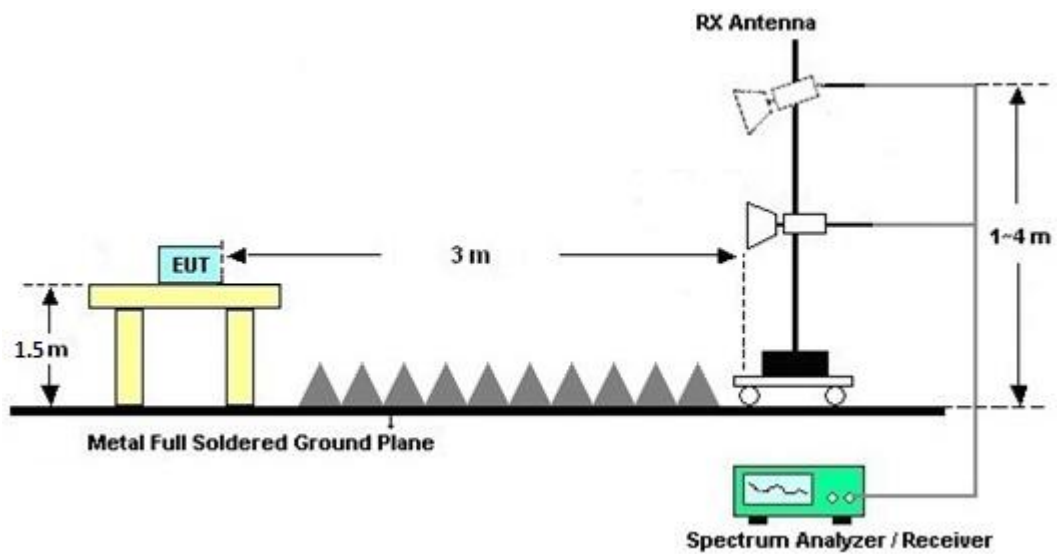
For radiated emissions below 30MHz



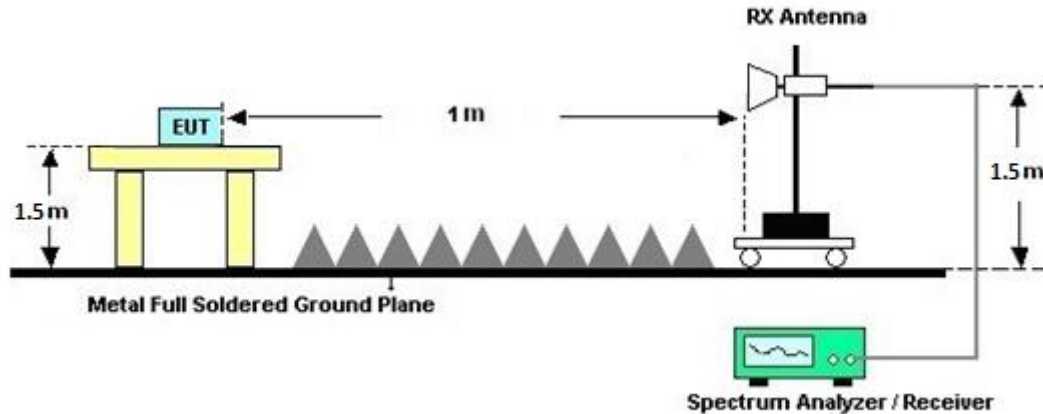
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.4.5 Test Results of Radiated 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 Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

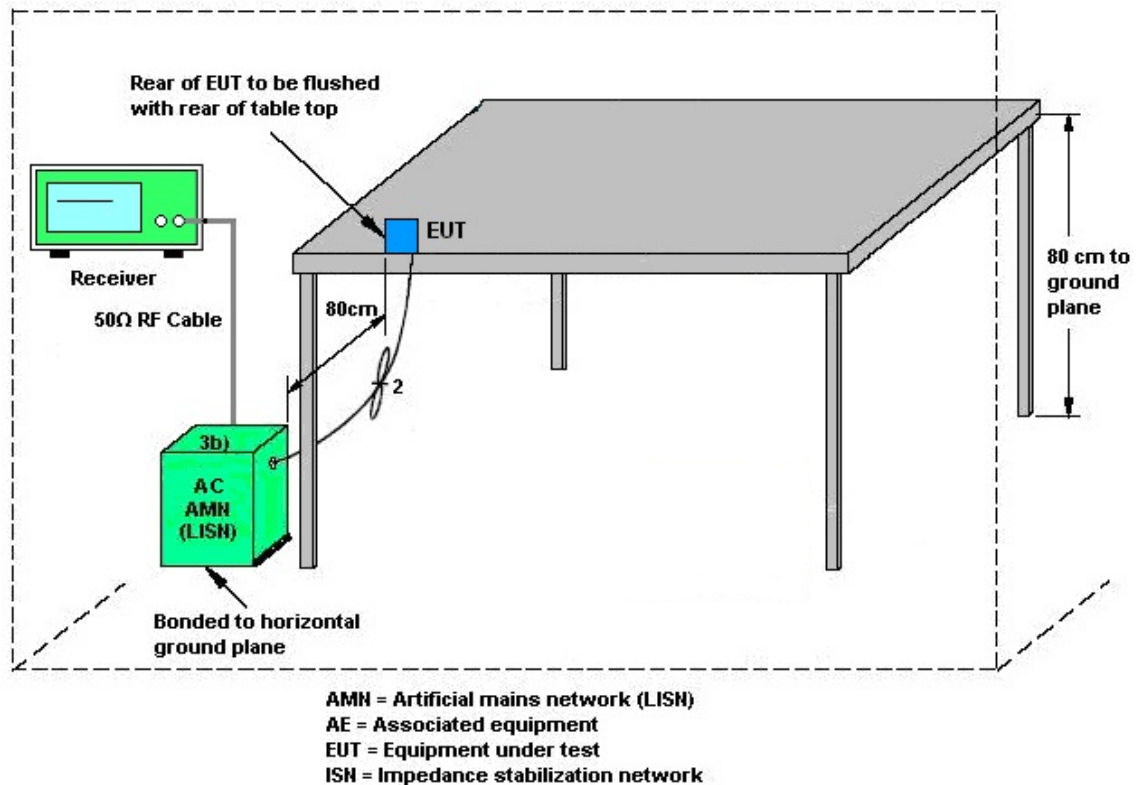
3.5.2 Measuring Instruments

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 Antenna Requirements

3.6.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



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. 03, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Jun. 03, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Jun. 03, 2024	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 08, 2023	Jun. 03, 2024	Dec. 07, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	Jun. 03, 2024	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Jun. 03, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 28, 2023	Jun. 03, 2024	Jul. 27, 2024	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 28, 2023	Jun. 03, 2024	Dec. 27, 2024	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	May 22, 2024~Jul. 31, 2024	Nov. 06, 2024	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 36 (NO:35_144)	10MHz~6GHz	Aug. 23, 2023	May 22, 2024~Jul. 31, 2024	Aug. 22, 2024	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	May 22, 2024~Jul. 31, 2024	Sep. 11, 2024	Conducted (TH02-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 22, 2024	Jun. 27, 2024~Jul. 22, 2024	Apr. 21, 2025	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Jun. 27, 2024~Jul. 22, 2024	Feb. 22, 2025	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Nov. 27, 2023	Jun. 27, 2024~Jul. 22, 2024	Nov. 26, 2024	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 02, 2023	Jun. 27, 2024~Jul. 22, 2024	Oct. 01, 2024	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 19, 2024	Jun. 27, 2024~Jul. 22, 2024	Apr. 18, 2025	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 23, 2024	Jun. 27, 2024~Jul. 22, 2024	Mar. 22, 2025	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 25, 2023	Jun. 27, 2024~Jul. 22, 2024	Jul. 24, 2024	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 26, 2024	Jun. 27, 2024~Jul. 22, 2024	Mar. 25, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 21, 2024	Jun. 27, 2024~Jul. 22, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 21, 2024	Jun. 27, 2024~Jul. 22, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 15, 2023	Jun. 27, 2024~Jul. 22, 2024	Sep. 14, 2024	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 21, 2024	Jun. 27, 2024~ Jul. 22, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 22, 2024	Jun. 27, 2024~ Jul. 22, 2024	Apr. 21, 2025	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Jun. 27, 2024~ Jul. 22, 2024	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Jun. 27, 2024~ Jul. 22, 2024	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Jun. 27, 2024~ Jul. 22, 2024	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jun. 27, 2024~ Jul. 22, 2024	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Jun. 27, 2024~ Jul. 22, 2024	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 01, 2024	Jun. 27, 2024~ Jul. 22, 2024	Feb. 28, 2025	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 24, 2023	Jun. 27, 2024~ Jul. 22, 2024	Nov. 23, 2024	Radiation (03CH07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.5 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.3 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Benny Ku	Temperature:	21~25	°C
Test Date:	2024/5/22~2024/7/31	Relative Humidity:	51~54	%

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

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	16.93	16.83	20.70	20.58	16.34	16.34	0.5	Pass
11a	6Mbps	1	157	5785	16.98	16.83	20.78	20.45	16.33	16.33	0.5	Pass
11a	6Mbps	1	165	5825	16.93	16.83	20.41	20.34	16.32	16.34	0.5	Pass
VHT20	MCS0	1	149	5745	17.83	17.73	21.10	20.90	17.31	16.93	0.5	Pass
VHT20	MCS0	1	157	5785	17.88	17.93	23.68	24.68	16.92	16.94	0.5	Pass
VHT20	MCS0	1	165	5825	18.83	17.73	20.82	21.01	18.15	17.26	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 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	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	15.80	12.10	30.00	30.00	5.00	5.00	Pass
11a	6Mbps	1	157	5785	13.10	15.00	30.00	30.00	5.00	5.00	Pass
11a	6Mbps	1	165	5825	12.10	12.90	30.00	30.00	5.00	5.00	Pass
HT20	MCS0	1	149	5745	15.60	12.60	30.00	30.00	5.00	5.00	Pass
HT20	MCS0	1	157	5785	13.50	13.40	30.00	30.00	5.00	5.00	Pass
HT20	MCS0	1	165	5825	12.30	12.70	30.00	30.00	5.00	5.00	Pass
VHT20	MCS0	1	149	5745	15.70	12.70	30.00	30.00	5.00	5.00	Pass
VHT20	MCS0	1	157	5785	13.60	13.50	30.00	30.00	5.00	5.00	Pass
VHT20	MCS0	1	165	5825	12.40	12.80	30.00	30.00	5.00	5.00	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 single antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)		Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.05	0.05	2.22	2.22	1.95	-1.86	30.00	30.00	5.00	5.00	Pass
11a	6Mbps	1	157	5785	0.05	0.05	2.22	2.22	-0.76	1.31	30.00	30.00	5.00	5.00	Pass
11a	6Mbps	1	165	5825	0.05	0.05	2.22	2.22	-1.98	-0.98	30.00	30.00	5.00	5.00	Pass
VHT20	MCS0	1	149	5745	0.05	0.05	2.22	2.22	1.39	-1.68	30.00	30.00	5.00	5.00	Pass
VHT20	MCS0	1	157	5785	0.05	0.05	2.22	2.22	-0.45	0.50	30.00	30.00	5.00	5.00	Pass
VHT20	MCS0	1	165	5825	0.05	0.05	2.22	2.22	-0.12	-1.57	30.00	30.00	5.00	5.00	Pass

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

U-NII-3 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	149	5745	Full	18.83	18.78	20.97	20.67	18.45	18.16	0.5	Pass
HE20	MCS0	1	157	5785	Full	18.83	18.78	20.74	20.73	18.18	18.25	0.5	Pass
HE20	MCS0	1	165	5825	Full	18.88	18.83	20.74	20.54	18.07	18.29	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)		FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	149	5745	Full	15.80	12.80	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	149	5745	26/0	10.30	6.80	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	149	5745	52/37	12.70	9.70	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	149	5745	106/53	14.80	11.20	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	157	5785	Full	13.70	13.60	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	157	5785	26/4	5.20	5.50	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	157	5785	52/38	6.60	7.00	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	157	5785	106/53	10.50	10.30	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	165	5825	Full	12.50	12.90	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	165	5825	26/8	7.00	7.30	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	165	5825	52/40	9.90	9.80	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	165	5825	106/54	12.30	12.10	30.00	30.00	5.00	5.00	Pass

TEST RESULTS DATA
Power Spectral Density

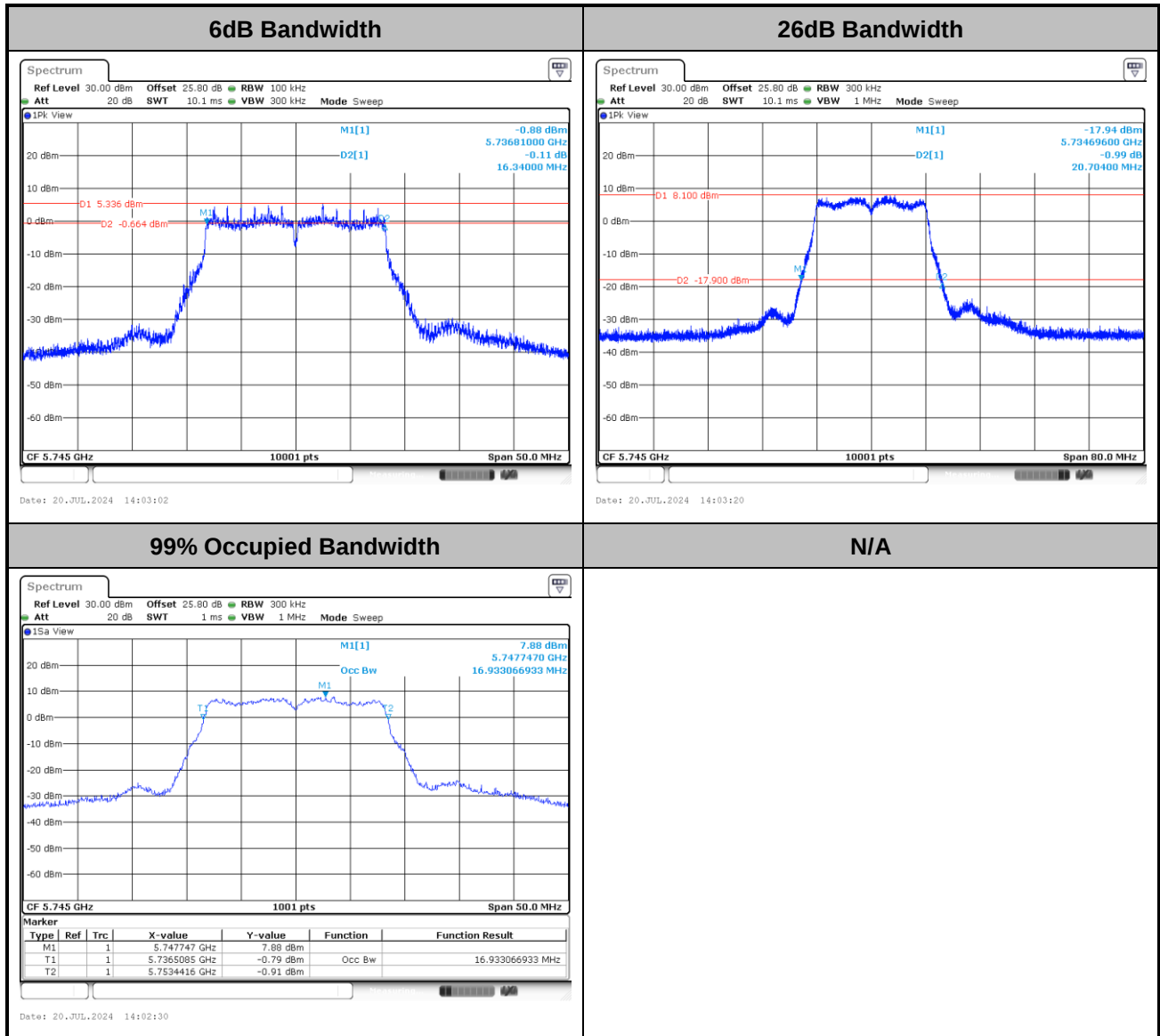
U-NII-3 single antenna																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)		Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	149	5745	Full	0.06	0.06	2.22	2.22	1.71	-1.62	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	149	5745	26/0	0.27	0.28	2.22	2.22	1.67	-1.69	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	149	5745	52/37	0.33	0.13	2.22	2.22	1.53	-1.63	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	149	5745	106/53	0.30	0.26	2.22	2.22	1.62	-1.78	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	157	5785	Full	0.06	0.06	2.22	2.22	-0.39	-0.26	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	157	5785	26/4	0.27	0.28	2.22	2.22	-0.54	-0.39	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	157	5785	52/38	0.33	0.13	2.22	2.22	-0.79	-0.64	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	157	5785	106/53	0.30	0.26	2.22	2.22	-0.72	-0.73	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	165	5825	Full	0.06	0.06	2.22	2.22	-1.62	-1.41	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	165	5825	26/8	0.27	0.28	2.22	2.22	-1.72	-1.58	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	165	5825	52/40	0.33	0.13	2.22	2.22	-1.90	-1.72	30.00	30.00	5.00	5.00	Pass
HE20	MCS0	1	165	5825	106/54	0.30	0.26	2.22	2.22	-2.00	-1.80	30.00	30.00	5.00	5.00	Pass



<Ant. 1>

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

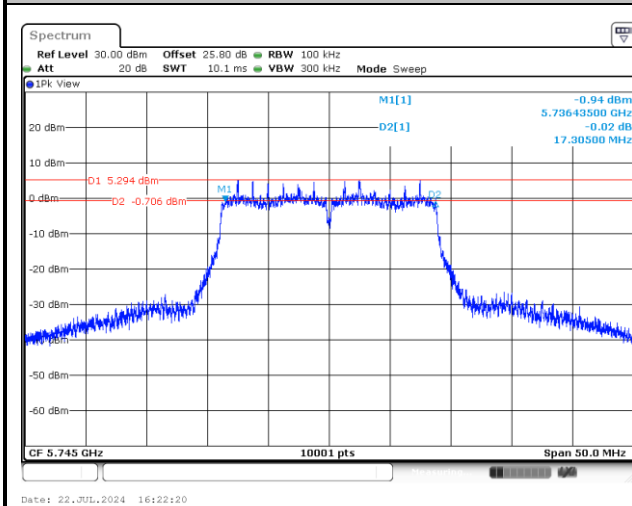
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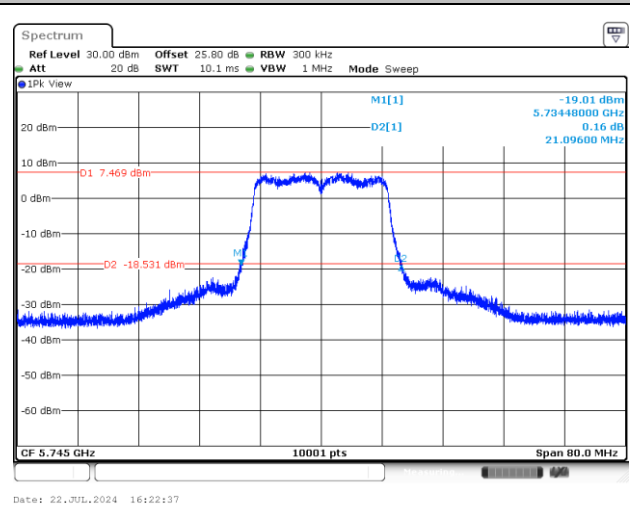


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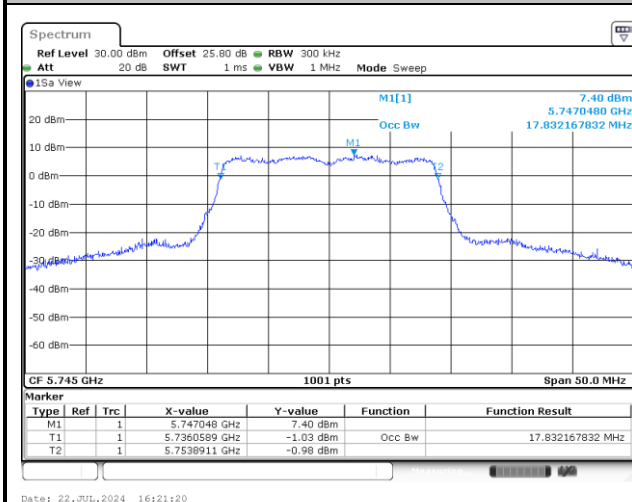
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

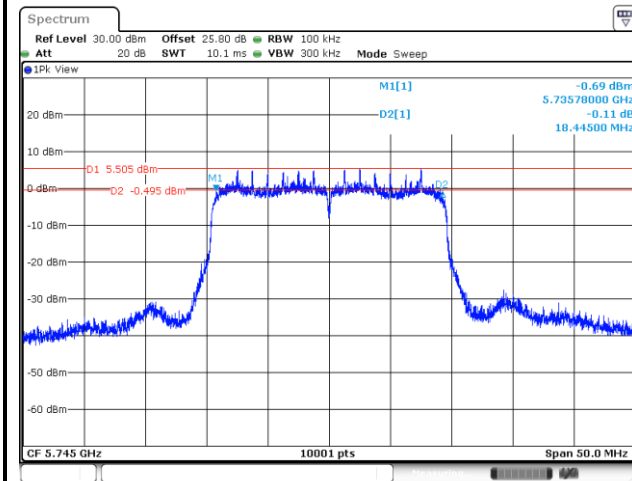


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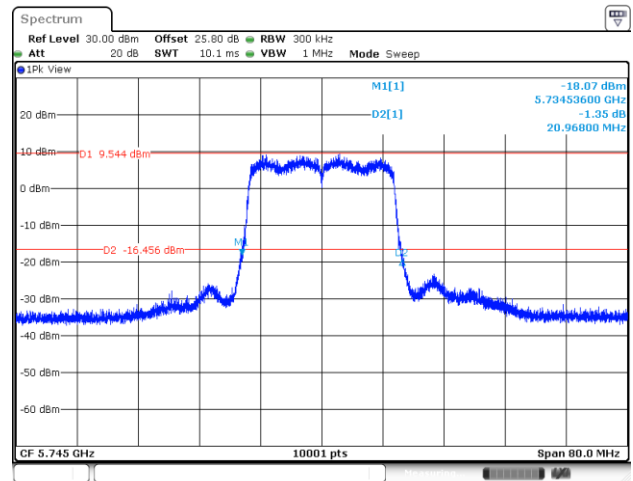


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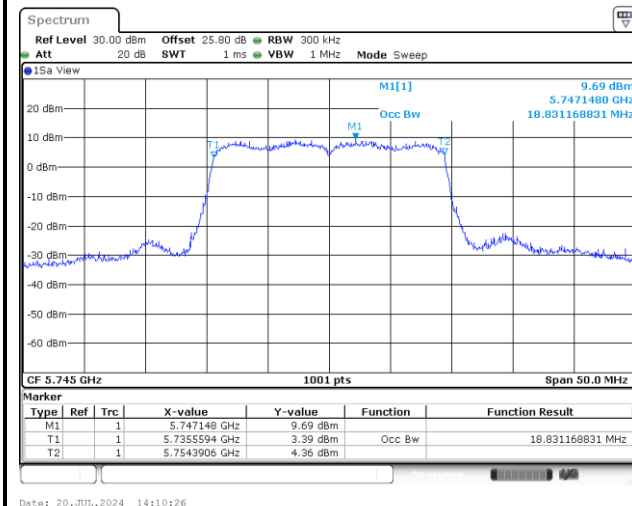
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

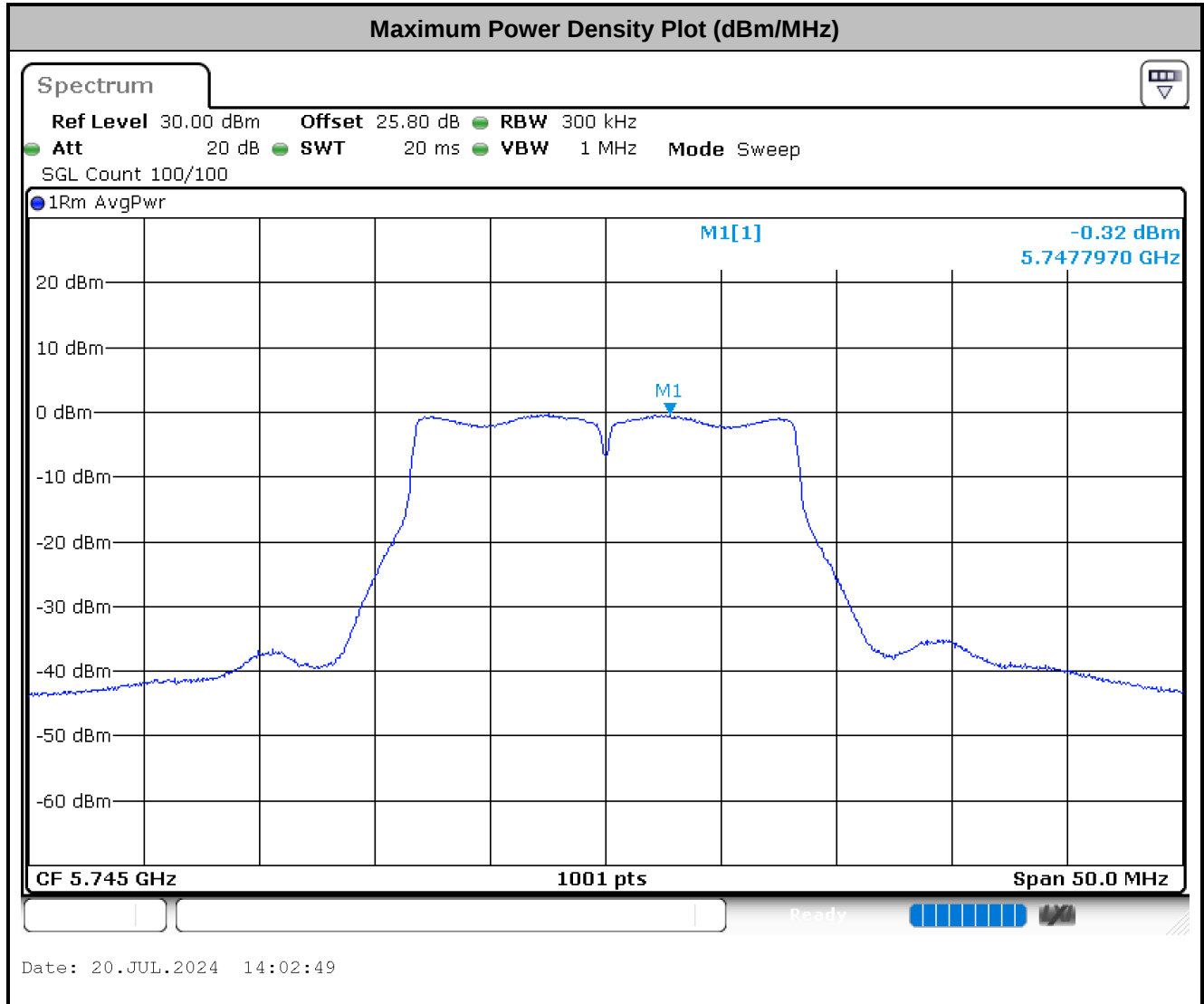


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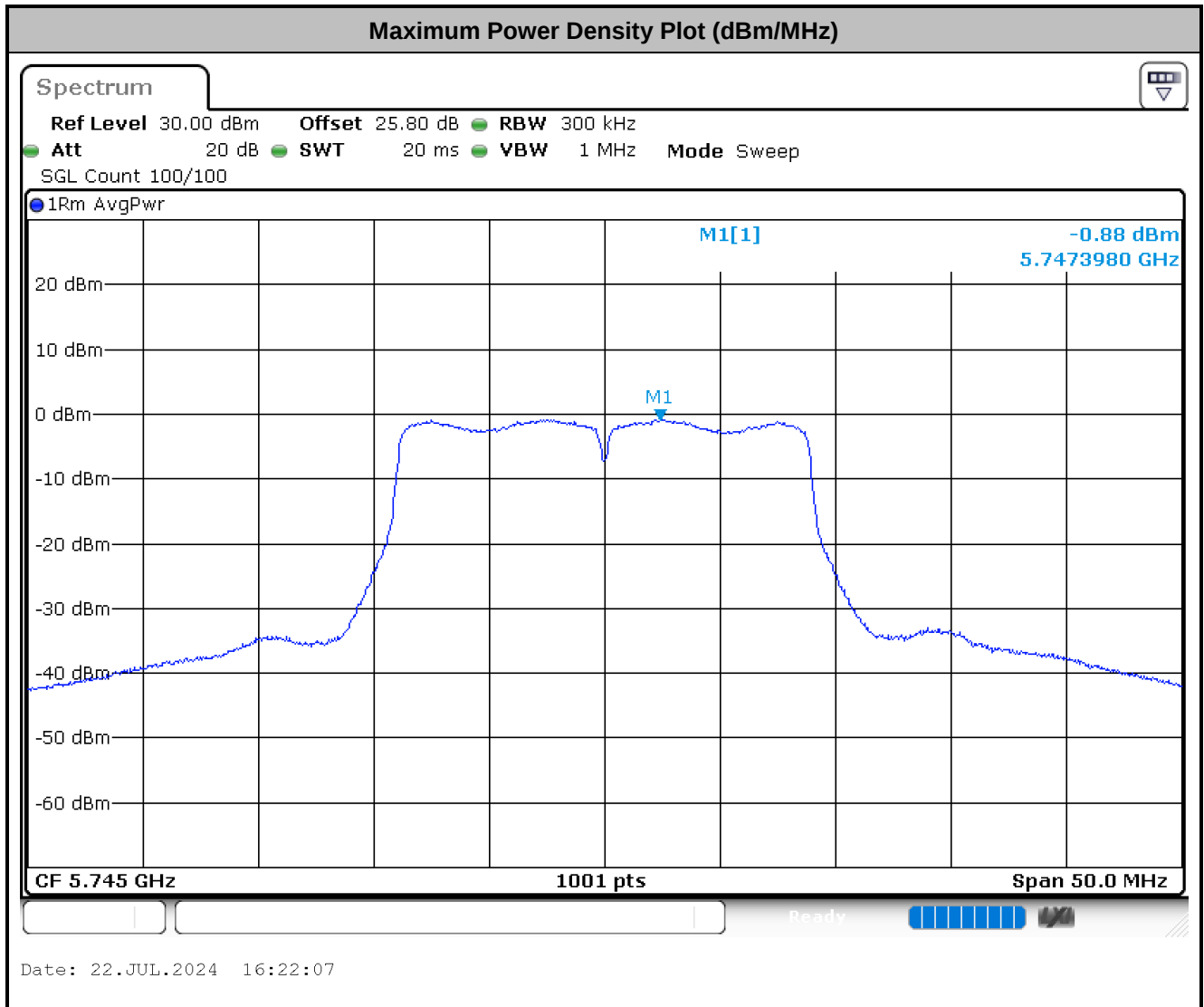
Test Result of Power Spectral Density

<802.11a>



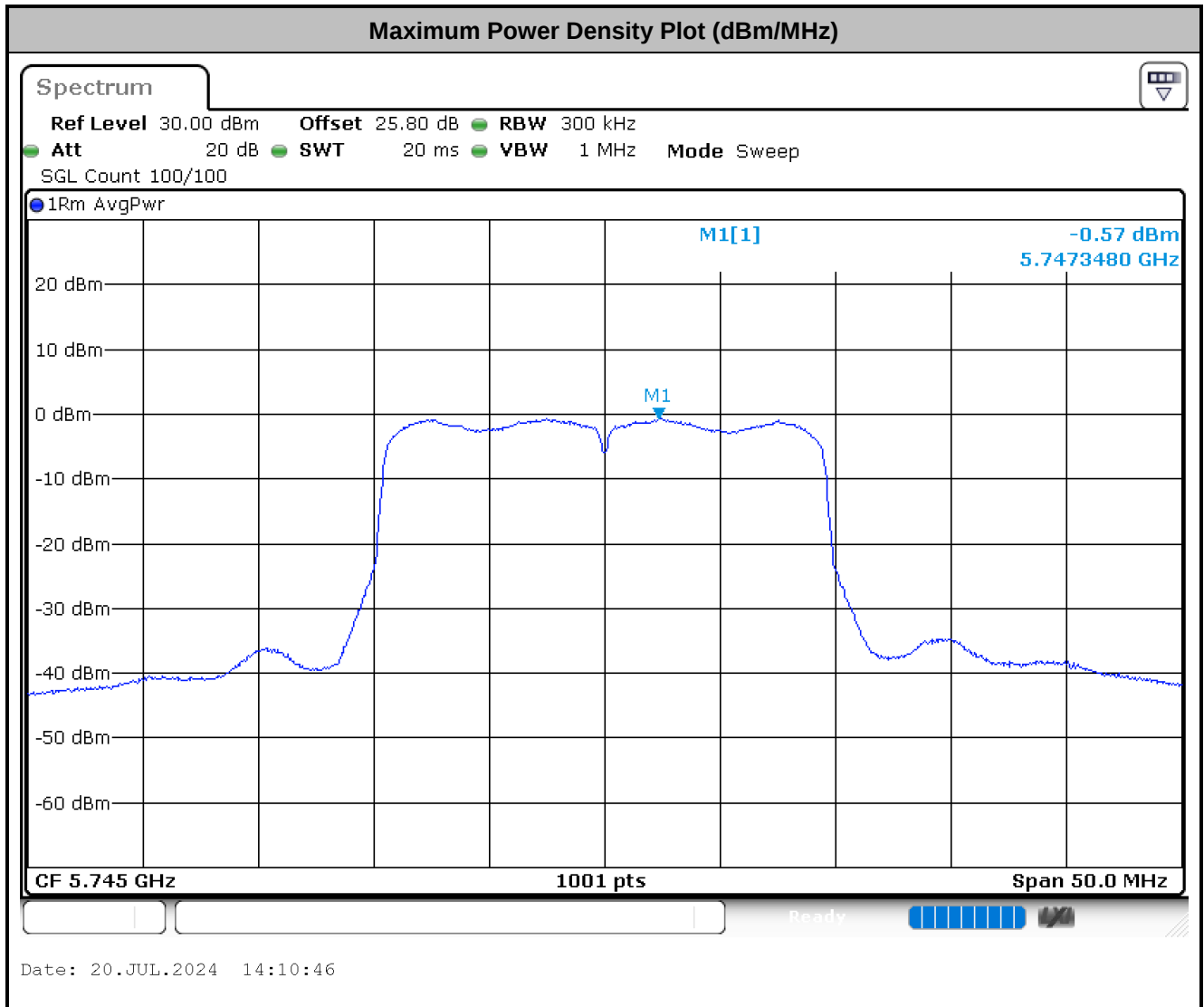


<802.11ac VHT20>





<802.11ax HE20>

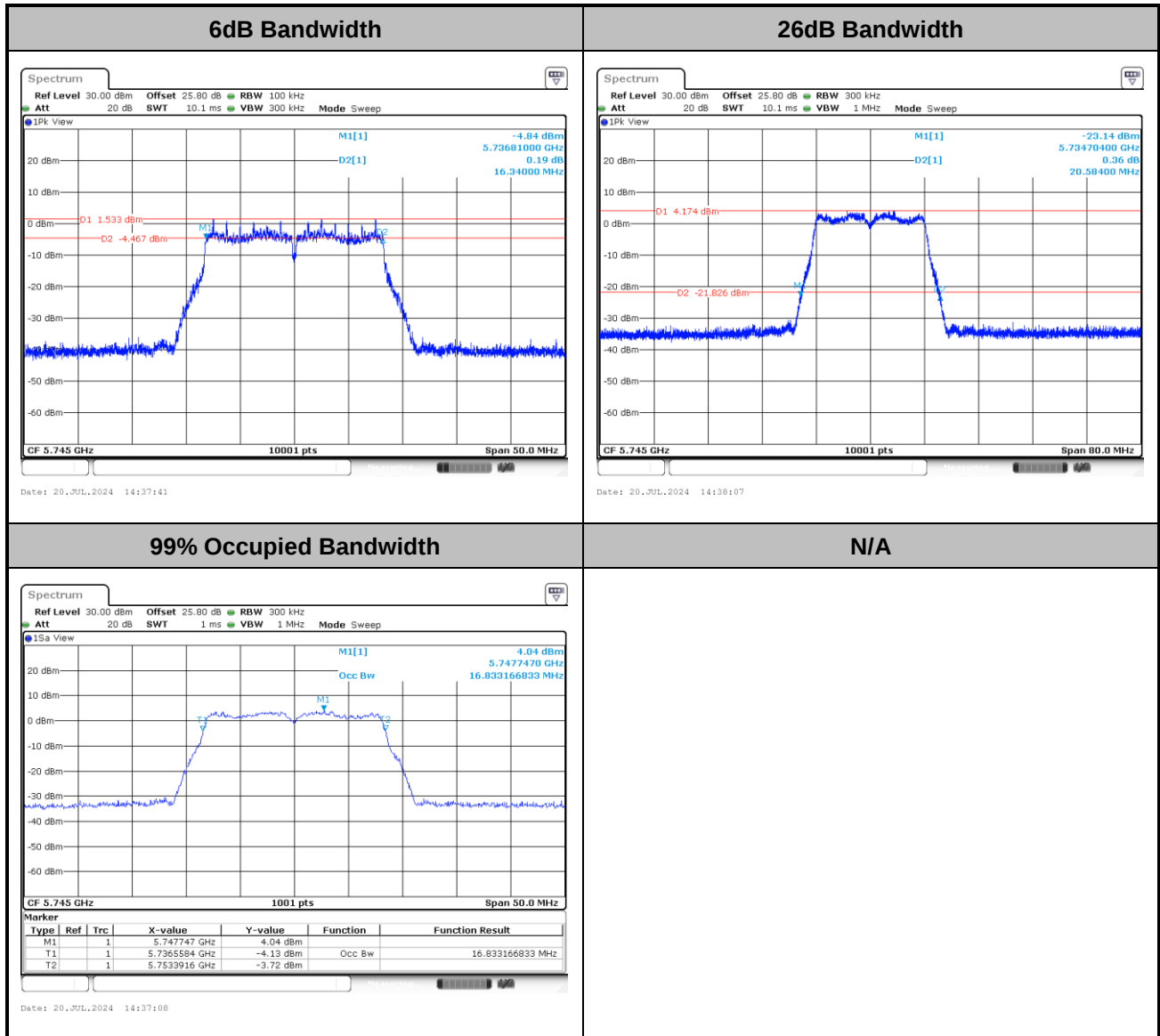




<Ant. 2>

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

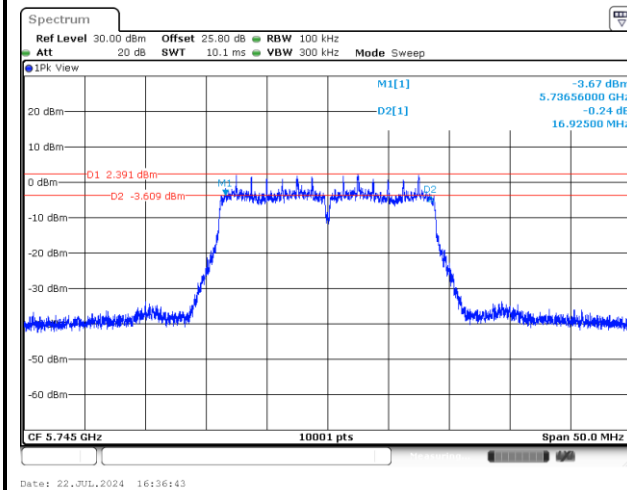
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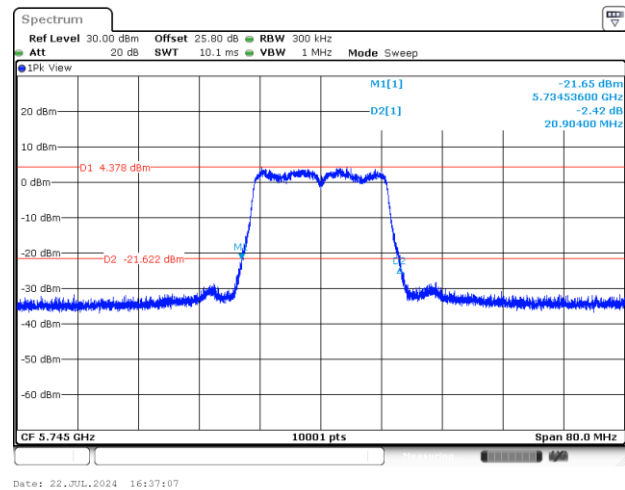


<802.11ac VHT20>

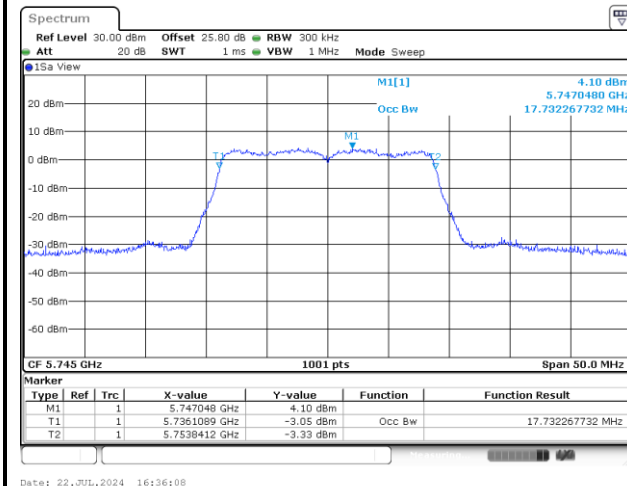
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

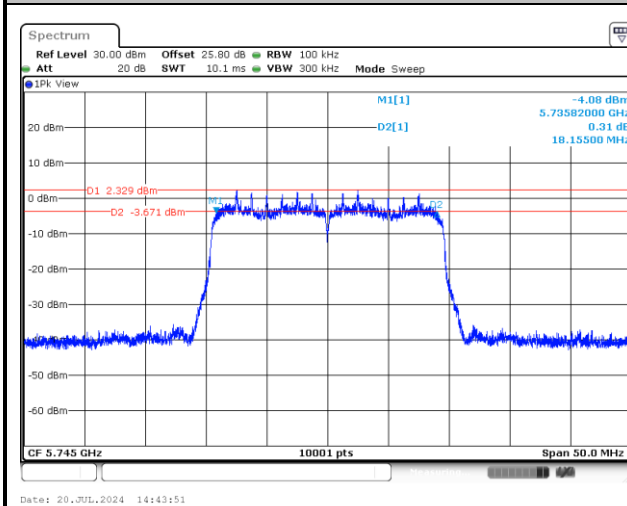


N/A

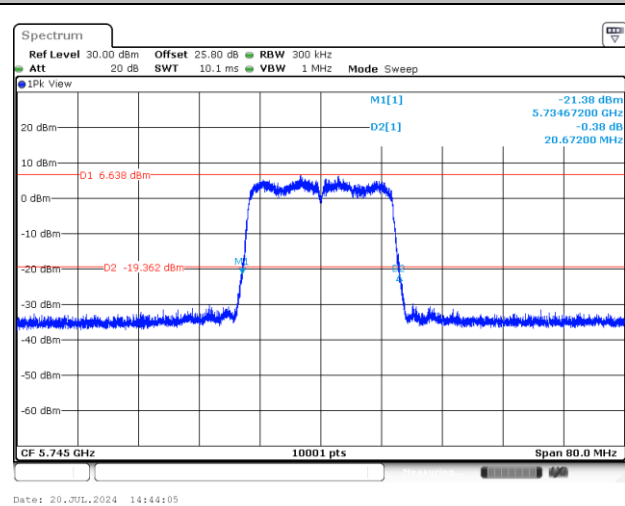


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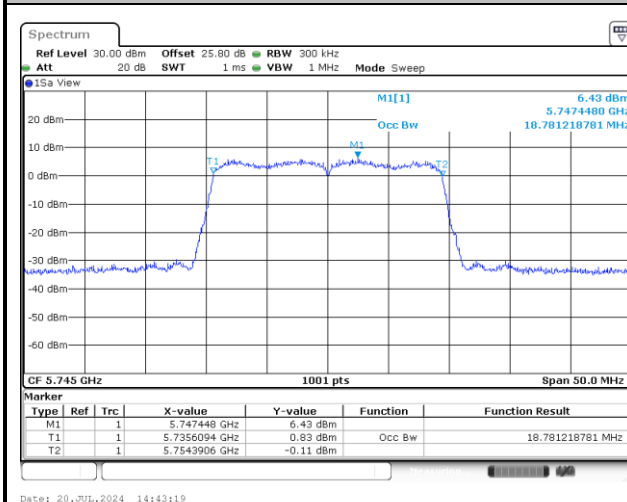
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

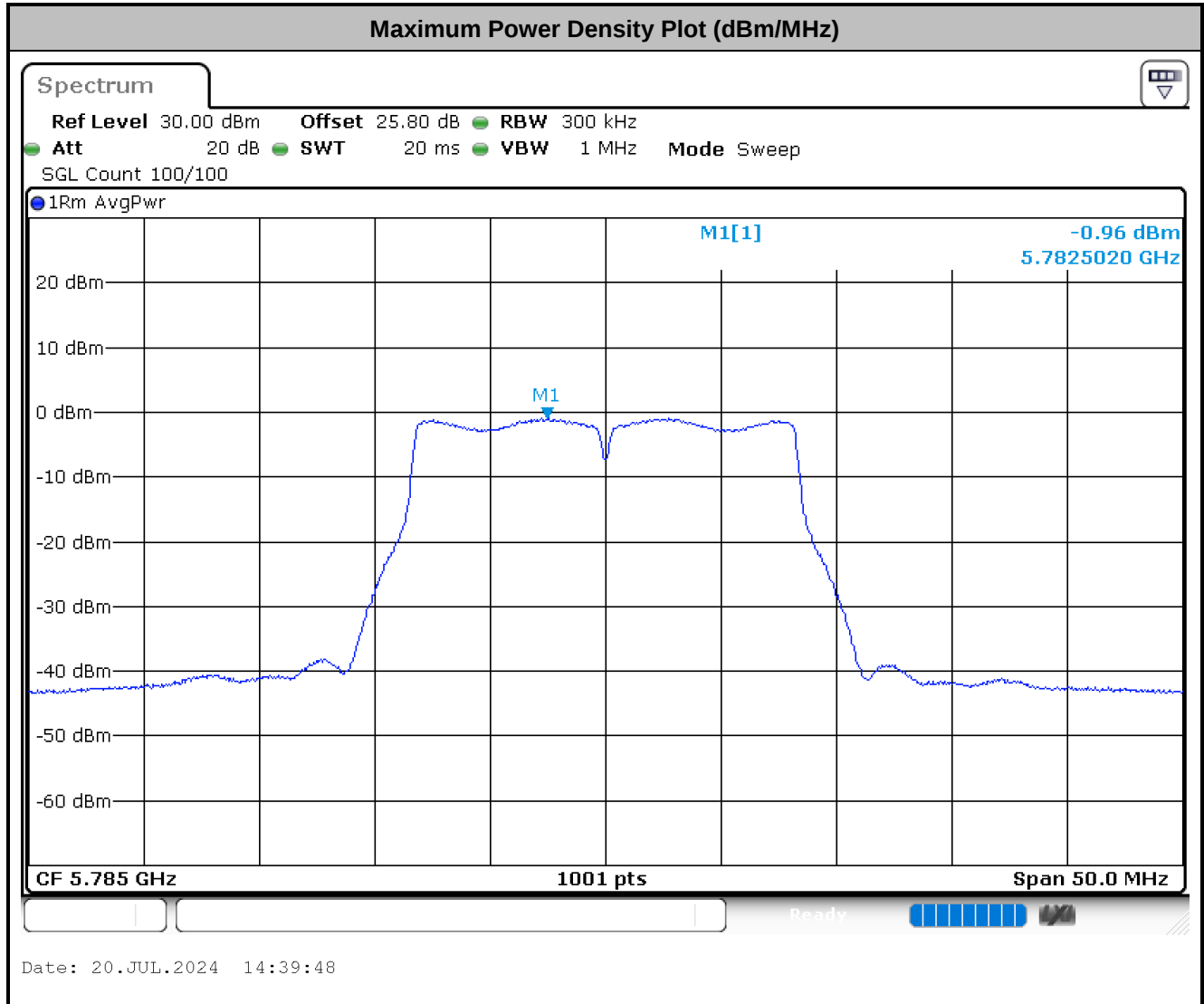


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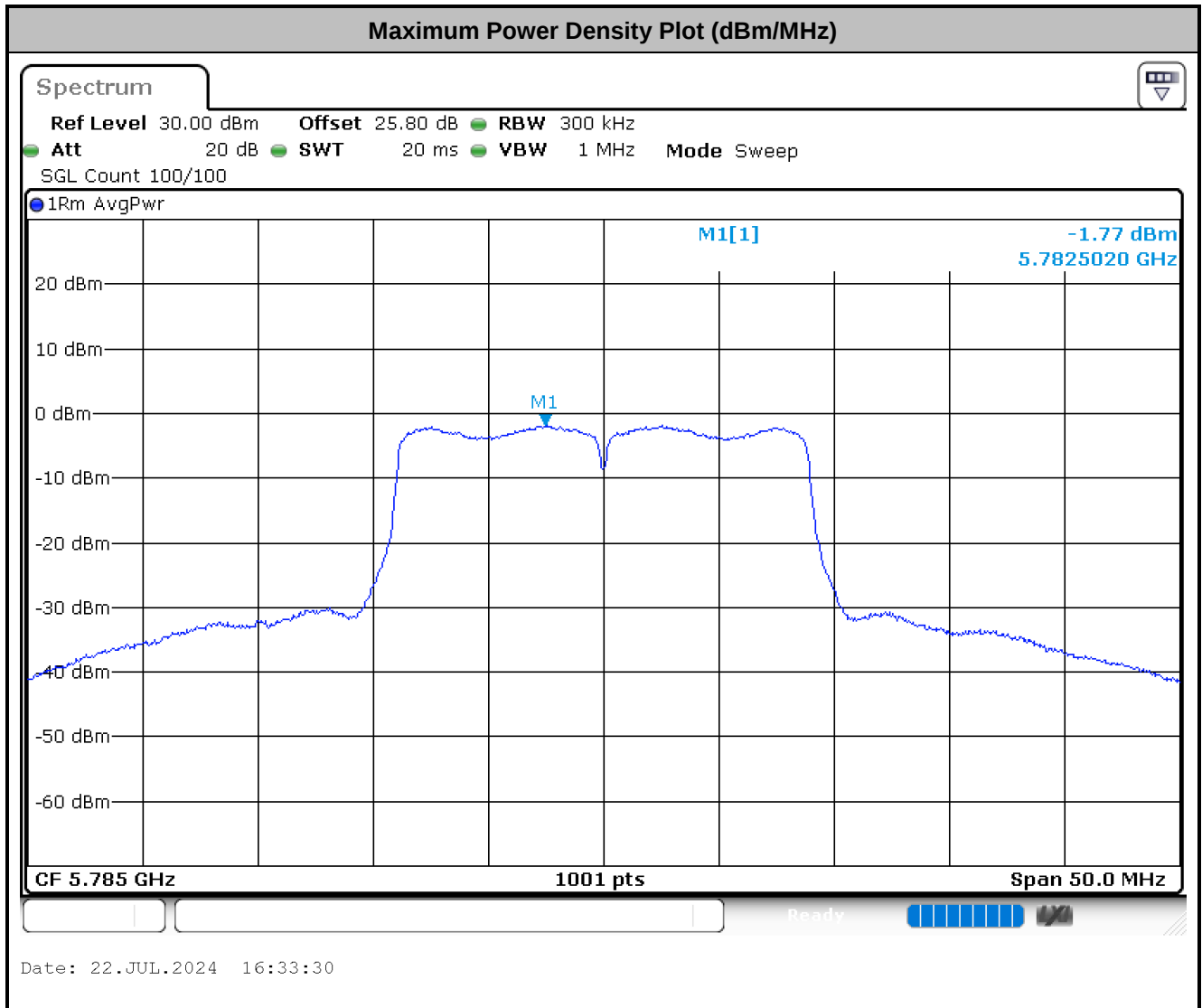
Test Result of Power Spectral Density

<802.11a>



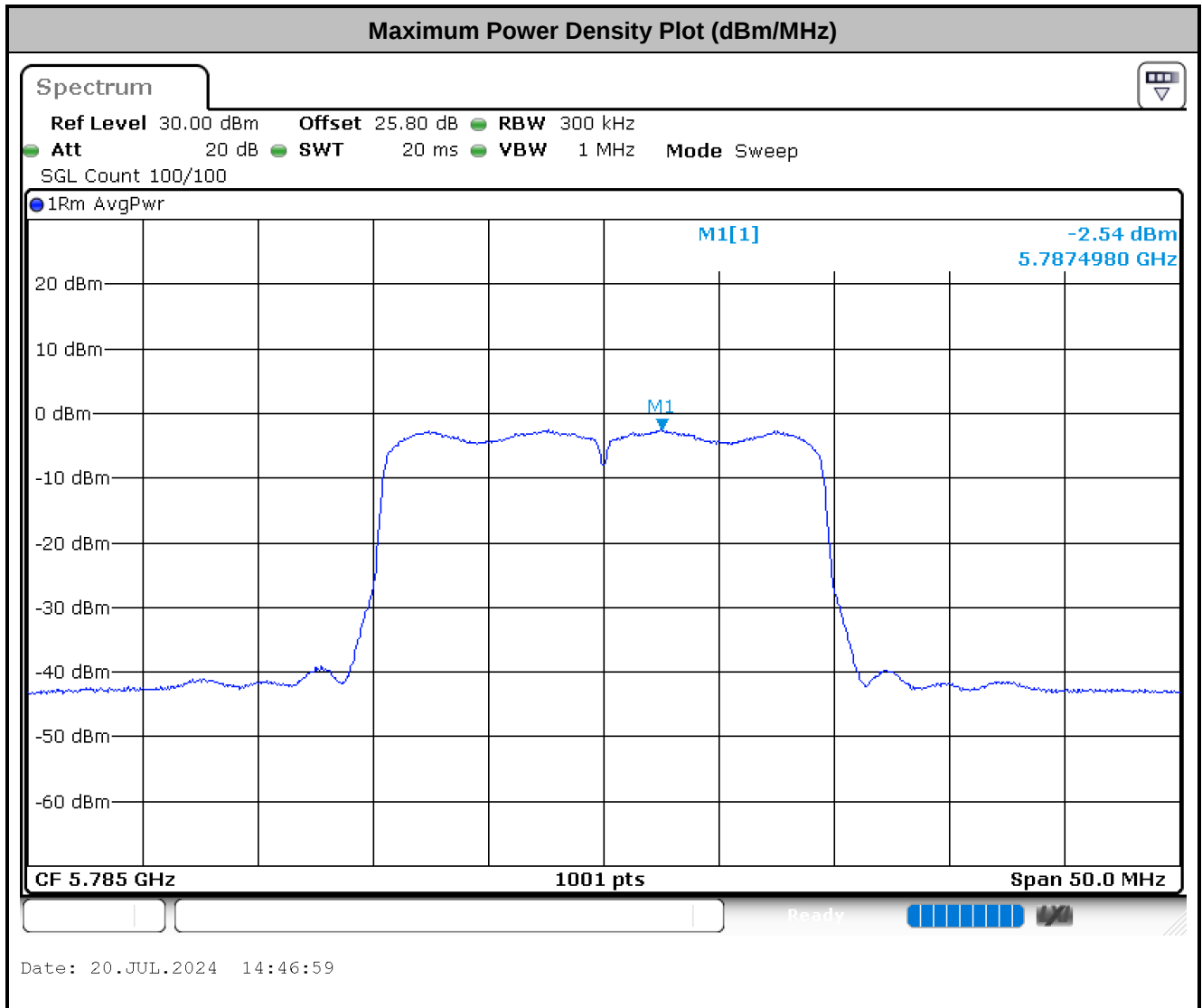


<802.11ac VHT20>





<802.11ax HE20>





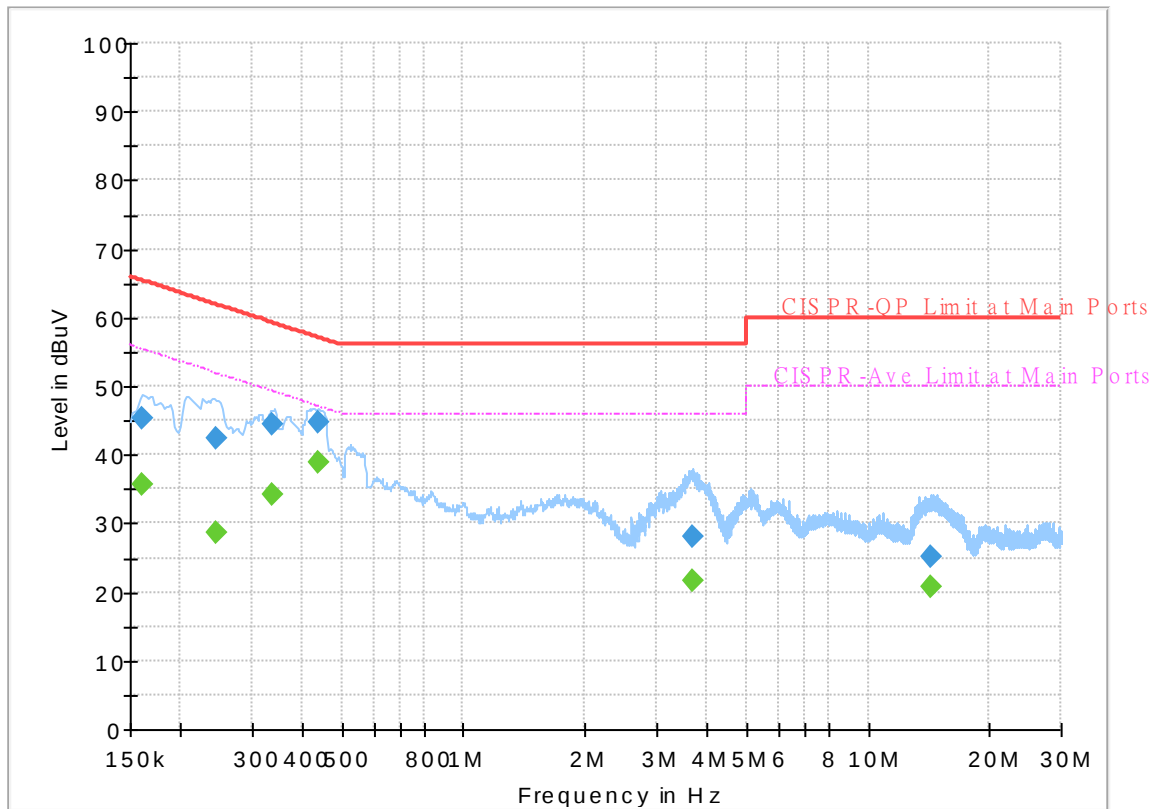
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO : 450318
Test Mode : Mode 1
Test Voltage : Power From System
Phase : Line

Full Spectrum



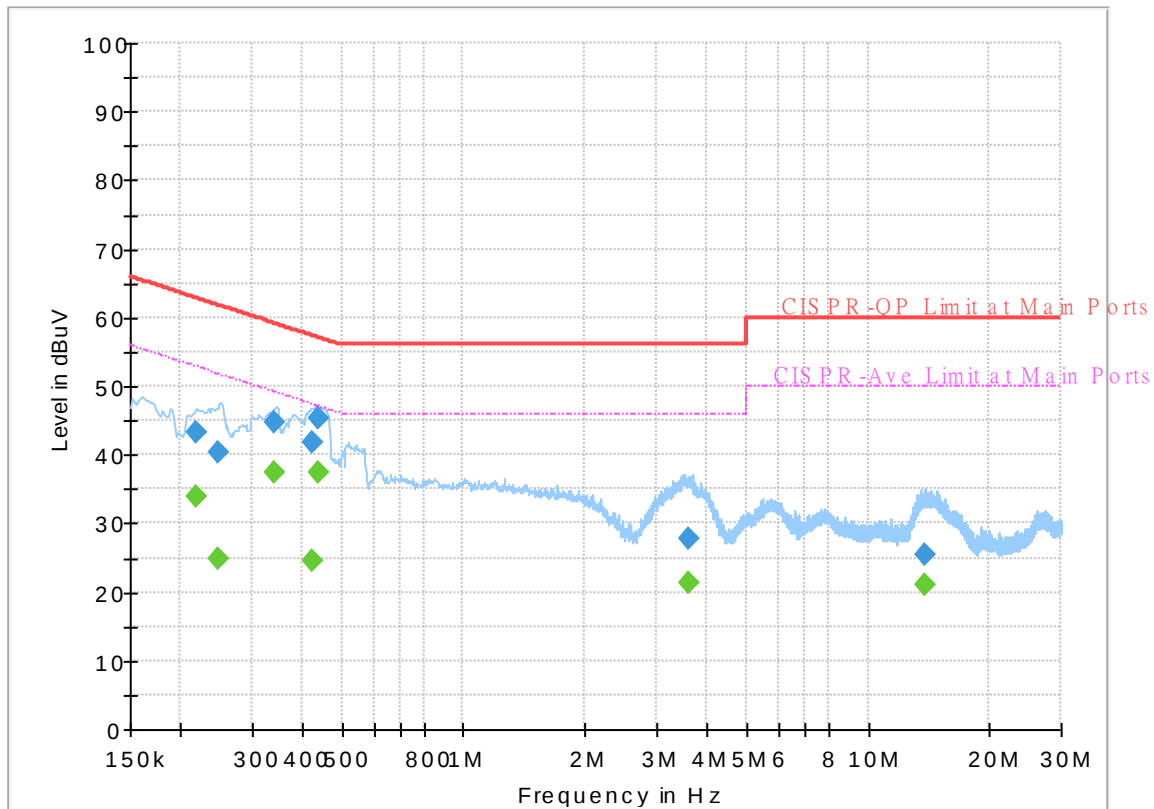
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	35.66	55.40	19.74	L1	OFF	19.8
0.161250	45.19	---	65.40	20.21	L1	OFF	19.8
0.244500	---	28.68	51.94	23.26	L1	OFF	19.8
0.244500	42.51	---	61.94	19.43	L1	OFF	19.8
0.336750	---	34.35	49.28	14.93	L1	OFF	19.8
0.336750	44.52	---	59.28	14.76	L1	OFF	19.8
0.435750	---	38.83	47.14	8.31	L1	OFF	19.8
0.435750	44.70	---	57.14	12.44	L1	OFF	19.8
3.684750	---	21.64	46.00	24.36	L1	OFF	19.8
3.684750	28.03	---	56.00	27.97	L1	OFF	19.8
14.325000	---	20.82	50.00	29.18	L1	OFF	19.9
14.325000	25.08	---	60.00	34.92	L1	OFF	19.9

EUT Information

Report NO : 450318
Test Mode : Mode 1
Test Voltage : Power From System
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.217500	---	34.01	52.91	18.90	N	OFF	19.8
0.217500	43.14	---	62.91	19.77	N	OFF	19.8
0.246750	---	24.94	51.87	26.93	N	OFF	19.8
0.246750	40.43	---	61.87	21.44	N	OFF	19.8
0.341250	---	37.42	49.17	11.75	N	OFF	19.8
0.341250	44.71	---	59.17	14.46	N	OFF	19.8
0.424500	---	24.65	47.36	22.71	N	OFF	19.8
0.424500	41.69	---	57.36	15.67	N	OFF	19.8
0.438000	---	37.41	47.10	9.69	N	OFF	19.8
0.438000	45.24	---	57.10	11.86	N	OFF	19.8
3.608250	---	21.26	46.00	24.74	N	OFF	19.8
3.608250	27.92	---	56.00	28.08	N	OFF	19.8
13.791750	---	21.14	50.00	28.86	N	OFF	20.0
13.791750	25.32	---	60.00	34.68	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	Temperature :	23.9~26.8°C
		Relative Humidity :	43.0~68.2%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5618	50.14	-18.06	68.2	37.21	34.81	12.81	34.69	100	214	P	H
		5658.2	49.77	-24.52	74.29	36.59	35.03	12.86	34.71	100	214	P	H
		5719.4	53.58	-57.05	110.63	40.17	35.2	12.95	34.74	100	214	P	H
		5724.2	57.63	-62.75	120.38	44.22	35.2	12.96	34.75	100	214	P	H
	*	5745	109.2	-	-	95.77	35.2	12.99	34.76	100	214	P	H
	*	5745	101.19	-	-	87.76	35.2	12.99	34.76	100	214	A	H
													H
													H
		5614.4	50.08	-18.12	68.2	37.17	34.79	12.8	34.68	344	235	P	V
		5670.8	49.38	-34.25	83.63	36.14	35.08	12.88	34.72	344	235	P	V
		5719.4	50.83	-59.8	110.63	37.42	35.2	12.95	34.74	344	235	P	V
		5725	55.4	-66.8	122.2	41.99	35.2	12.96	34.75	344	235	P	V
	*	5745	107.21	-	-	93.78	35.2	12.99	34.76	344	235	P	V
	*	5745	99.75	-	-	86.32	35.2	12.99	34.76	344	235	A	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5623.4	49.99	-18.21	68.2	37.03	34.84	12.81	34.69	107	216	P	H
		5665	50.04	-29.29	79.33	36.82	35.06	12.87	34.71	107	216	P	H
		5713.8	49.63	-59.44	109.07	36.22	35.2	12.95	34.74	107	216	P	H
		5723.6	51.66	-67.35	119.01	38.25	35.2	12.96	34.75	107	216	P	H
	*	5785	105.97	-	-	92.5	35.2	13.05	34.78	107	216	P	H
	*	5785	98.4	-	-	84.93	35.2	13.05	34.78	107	216	A	H
		5852.6	49.8	-66.47	116.27	36.5	35.01	13.11	34.82	107	216	P	H
		5856.2	50.34	-60.12	110.46	37.04	35.01	13.11	34.82	107	216	P	H
		5913.4	50.67	-26.09	76.76	37.29	35.07	13.16	34.85	107	216	P	H
		5929.8	50.84	-17.36	68.2	37.49	35.04	13.17	34.86	107	216	P	H
													H
													H
		5649.8	50.72	-17.48	68.2	37.57	35	12.85	34.7	376	232	P	V
		5680.4	49.15	-41.58	90.73	35.85	35.12	12.9	34.72	376	232	P	V
		5703.6	49.13	-57.08	106.21	35.73	35.2	12.93	34.73	376	232	P	V
		5724	47.57	-72.35	119.92	34.16	35.2	12.96	34.75	376	232	P	V
	*	5785	104.63	-	-	91.16	35.2	13.05	34.78	376	232	P	V
	*	5785	97.15	-	-	83.68	35.2	13.05	34.78	376	232	A	V
		5852.4	49.24	-67.49	116.73	35.95	35	13.11	34.82	376	232	P	V
		5871.2	51.83	-54.43	106.26	38.49	35.04	13.13	34.83	376	232	P	V
		5881	51.11	-49.63	100.74	37.75	35.06	13.13	34.83	376	232	P	V
		5948.6	51.15	-17.05	68.2	37.83	35	13.19	34.87	376	232	P	V
													V
													V



WiFi Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	105.22	-	-	91.83	35.1	13.09	34.8	379	191	P	H
	*	5825	97.79	-	-	84.4	35.1	13.09	34.8	379	191	A	H
		5851	50.43	-69.49	119.92	37.14	35	13.11	34.82	379	191	P	H
		5874.4	51.21	-54.16	105.37	37.86	35.05	13.13	34.83	379	191	P	H
		5893.2	51.06	-40.64	91.7	37.67	35.09	13.14	34.84	379	191	P	H
		5938.6	50.25	-17.95	68.2	36.92	35.02	13.18	34.87	379	191	P	H
													H
													H
	*	5825	101.98	-	-	88.59	35.1	13.09	34.8	350	235	P	V
	*	5825	94.67	-	-	81.28	35.1	13.09	34.8	350	235	A	V
		5851.2	48.86	-70.6	119.46	35.57	35	13.11	34.82	350	235	P	V
		5865	49.71	-58.29	108	36.38	35.03	13.12	34.82	350	235	P	V
		5925	51.4	-16.8	68.2	38.04	35.05	13.17	34.86	350	235	P	V
		5943.8	50.92	-17.28	68.2	37.59	35.01	13.19	34.87	350	235	P	V
													V
													V
													V
Remark 1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	62	-12	74	61.34	38.18	19.48	57	300	190	P	H
		11490	52.52	-1.48	54	51.86	38.18	19.48	57	300	190	A	H
		17235	50.11	-18.09	68.2	40.55	41.64	23.91	55.99	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	61.74	-12.26	74	61.08	38.18	19.48	57	100	131	P	V
		11490	52.28	-1.72	54	51.62	38.18	19.48	57	100	131	A	V
		17235	49.61	-18.59	68.2	40.05	41.64	23.91	55.99	-	-	P	V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		11570	63.03	-10.97	74	62.11	38.24	19.53	56.85	381	207	P	H
		11570	52.42	-1.58	54	51.5	38.24	19.53	56.85	381	207	A	H
		17355	49.37	-18.83	68.2	39.76	41.41	24	55.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	60.2	-13.8	74	59.28	38.24	19.53	56.85	100	71	P	V
		11570	50.56	-3.44	54	49.64	38.24	19.53	56.85	100	71	A	V
		17355	49.42	-18.78	68.2	39.81	41.41	24	55.8	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 165 5825MHz		11650	62.6	-11.4	74	61.22	38.5	19.59	56.71	295	190	P	H	
		11650	52.78	-1.22	54	51.4	38.5	19.59	56.71	295	190	A	H	
		17475	50.62	-17.58	68.2	40.65	41.5	24.07	55.6	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11650	60.68	-13.32	74	59.3	38.5	19.59	56.71	100	1117	P	V
			11650	51.29	-2.71	54	49.91	38.5	19.59	56.71	100	1117	A	V
			17475	50.02	-18.18	68.2	40.05	41.5	24.07	55.6	-	-	P	V
														V
														V
														V
														V
														V
														V
														V
														V
													V	
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.													



Band 4 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		5642.4	50.05	-18.15	68.2	36.96	34.95	12.84	34.7	100	214	P	H
		5663.2	50.6	-27.4	78	37.39	35.05	12.87	34.71	100	214	P	H
		5719.2	54.79	-55.79	110.58	41.38	35.2	12.95	34.74	100	214	P	H
		5724.6	59.5	-61.79	121.29	46.09	35.2	12.96	34.75	100	214	P	H
	*	5745	108.67	-	-	95.24	35.2	12.99	34.76	100	214	P	H
	*	5745	100.71	-	-	87.28	35.2	12.99	34.76	100	214	A	H
													H
													H
		5636.8	48.86	-19.34	68.2	35.81	34.92	12.83	34.7	344	235	P	V
		5675.2	50.07	-36.82	86.89	36.8	35.1	12.89	34.72	344	235	P	V
		5720	54.23	-56.57	110.8	40.82	35.2	12.95	34.74	344	235	P	V
		5724.6	56.58	-64.71	121.29	43.17	35.2	12.96	34.75	344	235	P	V
	*	5745	107.5	-	-	94.07	35.2	12.99	34.76	344	235	P	V
	*	5745	99.01	-	-	85.58	35.2	12.99	34.76	344	235	A	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		5640.2	49.99	-18.21	68.2	36.91	34.94	12.84	34.7	100	215	P	H
		5689	49.48	-47.61	97.09	36.14	35.16	12.91	34.73	100	215	P	H
		5710.4	50.06	-58.05	108.11	36.66	35.2	12.94	34.74	100	215	P	H
		5721.4	49.55	-64.44	113.99	36.13	35.2	12.96	34.74	100	215	P	H
	*	5785	107.94	-	-	94.47	35.2	13.05	34.78	100	215	P	H
	*	5785	99.06	-	-	85.59	35.2	13.05	34.78	100	215	A	H
		5853.6	51.91	-62.08	113.99	38.61	35.01	13.11	34.82	100	215	P	H
		5866.4	50.96	-56.65	107.61	37.64	35.03	13.12	34.83	100	215	P	H
		5892.2	50.68	-41.76	92.44	37.3	35.08	13.14	34.84	100	215	P	H
		5937.6	51.67	-16.53	68.2	38.34	35.02	13.18	34.87	100	215	P	H
													H
													H
		5644	50.03	-18.17	68.2	36.93	34.96	12.84	34.7	376	233	P	V
		5665.6	50.43	-29.35	79.78	37.2	35.06	12.88	34.71	376	233	P	V
		5703.8	49.12	-57.15	106.27	35.72	35.2	12.93	34.73	376	233	P	V
		5720	48.56	-62.24	110.8	35.15	35.2	12.95	34.74	376	233	P	V
	*	5785	106.09	-	-	92.62	35.2	13.05	34.78	376	233	P	V
	*	5785	97.49	-	-	84.02	35.2	13.05	34.78	376	233	A	V
		5855	49.97	-60.83	110.8	36.67	35.01	13.11	34.82	376	233	P	V
		5866.2	50.66	-57	107.66	37.34	35.03	13.12	34.83	376	233	P	V
		5917.4	49.87	-23.93	73.8	36.49	35.07	13.16	34.85	376	233	P	V
		5927	50.09	-18.11	68.2	36.73	35.05	13.17	34.86	376	233	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 165 5825MHz	*	5825	106.93	-	-	93.54	35.1	13.09	34.8	378	192	P	H
	*	5825	98.59	-	-	85.2	35.1	13.09	34.8	378	192	A	H
		5853.4	51.86	-62.59	114.45	38.56	35.01	13.11	34.82	378	192	P	H
		5860	50.47	-58.93	109.4	37.15	35.02	13.12	34.82	378	192	P	H
		5912	50.76	-27.03	77.79	37.37	35.08	13.16	34.85	378	192	P	H
		5936.6	50.61	-17.59	68.2	37.26	35.03	13.18	34.86	378	192	P	H
													H
													H
	*	5825	102.87	-	-	89.48	35.1	13.09	34.8	352	233	P	V
	*	5825	95.46	-	-	82.07	35.1	13.09	34.8	352	233	A	V
		5851.8	50.05	-68.05	118.1	36.76	35	13.11	34.82	352	233	P	V
		5874.2	51	-54.42	105.42	37.65	35.05	13.13	34.83	352	233	P	V
		5880.8	51.19	-49.7	100.89	37.83	35.06	13.13	34.83	352	233	P	V
		5937.8	50.51	-17.69	68.2	37.18	35.02	13.18	34.87	352	233	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		11490	61.92	-12.08	74	61.26	38.18	19.48	57	299	191	P	H
		11490	51.62	-2.38	54	50.96	38.18	19.48	57	299	191	A	H
		17235	50.66	-17.54	68.2	41.1	41.64	23.91	55.99	-	-	P	H
													H
													H
													H
													H
													H
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													H
													H
													H
													H
		11490	60.59	-13.41	74	59.93	38.18	19.48	57	378	275	P	V
		11490	50.15	-3.85	54	49.49	38.18	19.48	57	378	275	A	V
		17235	50.74	-17.46	68.2	41.18	41.64	23.91	55.99	-	-	P	V
													V
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													V
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													V
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WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		11570	63.04	-10.96	74	62.12	38.24	19.53	56.85	296	191	P	H
		11570	52.79	-1.21	54	51.87	38.24	19.53	56.85	296	191	A	H
		17355	50.49	-17.71	68.2	40.88	41.41	24	55.8	-	-	P	H
													H
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													H
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													H
													H
													H
		11570	61.02	-12.98	74	60.1	38.24	19.53	56.85	100	117	P	V
		11570	50.82	-3.18	54	49.9	38.24	19.53	56.85	100	117	A	V
		17355	50.88	-17.32	68.2	41.27	41.41	24	55.8	-	-	P	V
													V
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													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE20_Partial 106 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/54 CH 165 5825MHz	*	5825	107.72	-	-	94.33	35.1	13.09	34.8	400	199	P	H
	*	5825	98.46	-	-	85.07	35.1	13.09	34.8	400	199	A	H
		5851	50.02	-69.9	119.92	36.73	35	13.11	34.82	400	199	P	H
		5857.4	50.61	-59.52	110.13	37.3	35.01	13.12	34.82	400	199	P	H
		5915.4	51.57	-23.71	75.28	38.19	35.07	13.16	34.85	400	199	P	H
		5939	50.03	-18.17	68.2	36.7	35.02	13.18	34.87	400	199	P	H
													H
													H
	*	5825	102.71	-	-	89.32	35.1	13.09	34.8	399	68	P	V
	*	5825	93.69	-	-	80.3	35.1	13.09	34.8	399	68	A	V
		5851.2	48.63	-70.83	119.46	35.34	35	13.11	34.82	399	68	P	V
		5857.8	49.79	-60.22	110.01	36.47	35.02	13.12	34.82	399	68	P	V
		5910.6	50.52	-28.3	78.82	37.13	35.08	13.16	34.85	399	68	P	V
		5941	51.12	-17.08	68.2	37.79	35.02	13.18	34.87	399	68	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

5GHz WIFI 802.11ax HE20 Full (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full SHF		39978	45.93	-28.07	74	44.46	44.8	14.91	58.24	-	-	P	H
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Emission below 1GHz

5GHz WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full LF		62.13	32.91	-7.09	40	49.15	12.03	1.64	29.91	-	-	P	H
		156.09	30.64	-12.86	43.5	41.38	16.58	2.52	29.84	-	-	P	H
		264.09	35.95	-10.05	46	43	19.68	3.09	29.82	-	-	P	H
		598.9	28.45	-17.55	46	28.52	25.13	4.6	29.8	-	-	P	H
		797	30.61	-15.39	46	27.44	27.21	5.25	29.29	-	-	P	H
		930.7	34.52	-11.48	46	29.16	28.38	5.72	28.74	-	-	P	H
													H
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													H
													H
													H
													H
		30	31.24	-8.76	40	35.78	24.29	1.11	29.94	-	-	P	V
		61.86	30.42	-9.58	40	46.68	12.02	1.63	29.91	-	-	P	V
		91.02	27.22	-16.28	43.5	40.4	14.74	1.99	29.91	-	-	P	V
		744.5	29.35	-16.65	46	26.52	27.25	5.07	29.49	-	-	P	V
		844.6	32.03	-13.97	46	27.76	28	5.45	29.18	-	-	P	V
		926.5	34.57	-11.43	46	29.7	27.92	5.71	28.76	-	-	P	V
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												V	
												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.												



Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5637.2	49.85	-18.35	68.2	36.8	34.92	12.83	34.7	398	159	P	H
		5657	50.24	-23.16	73.4	37.06	35.03	12.86	34.71	398	159	P	H
		5717	49.39	-60.57	109.96	35.98	35.2	12.95	34.74	398	159	P	H
		5724.8	50.53	-71.21	121.74	37.12	35.2	12.96	34.75	398	159	P	H
	*	5745	105.89	-	-	92.46	35.2	12.99	34.76	398	159	P	H
	*	5745	98.82	-	-	85.39	35.2	12.99	34.76	398	159	A	H
													H
													H
		5633.8	50.41	-17.79	68.2	37.37	34.9	12.83	34.69	392	234	P	V
		5684	49.37	-44.03	93.4	36.05	35.14	12.9	34.72	392	234	P	V
		5712.4	49.24	-59.43	108.67	35.84	35.2	12.94	34.74	392	234	P	V
		5722	49.81	-65.55	115.36	36.39	35.2	12.96	34.74	392	234	P	V
	*	5745	102.05	-	-	88.62	35.2	12.99	34.76	392	234	P	V
	*	5745	95.11	-	-	81.68	35.2	12.99	34.76	392	234	A	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5643	49.67	-18.53	68.2	36.57	34.96	12.84	34.7	289	166	P	H
		5692.2	50.73	-48.72	99.45	37.38	35.17	12.91	34.73	289	166	P	H
		5702.4	50.32	-55.55	105.87	36.92	35.2	12.93	34.73	289	166	P	H
		5724.6	49.34	-71.95	121.29	35.93	35.2	12.96	34.75	289	166	P	H
	*	5785	109.97	-	-	96.5	35.2	13.05	34.78	289	166	P	H
	*	5785	101.58	-	-	88.11	35.2	13.05	34.78	289	166	A	H
		5854.4	50.04	-62.13	112.17	36.74	35.01	13.11	34.82	289	166	P	H
		5861.8	50.19	-58.7	108.89	36.87	35.02	13.12	34.82	289	166	P	H
		5889.8	50.48	-43.74	94.22	37.1	35.08	13.14	34.84	289	166	P	H
		5926.6	52.21	-15.99	68.2	38.85	35.05	13.17	34.86	289	166	P	H
													H
													H
		5643.6	49.22	-18.98	68.2	36.12	34.96	12.84	34.7	400	261	P	V
		5680.2	49.37	-41.22	90.59	36.07	35.12	12.9	34.72	400	261	P	V
		5709.4	49.22	-58.61	107.83	35.82	35.2	12.94	34.74	400	261	P	V
		5720.4	49.17	-62.54	111.71	35.76	35.2	12.95	34.74	400	261	P	V
	*	5785	105.54	-	-	92.07	35.2	13.05	34.78	400	261	P	V
	*	5785	98.61	-	-	85.14	35.2	13.05	34.78	400	261	A	V
		5853.8	50.48	-63.06	113.54	37.18	35.01	13.11	34.82	400	261	P	V
		5873.4	50.02	-55.63	105.65	36.67	35.05	13.13	34.83	400	261	P	V
		5914.2	51.74	-24.43	76.17	38.36	35.07	13.16	34.85	400	261	P	V
		5938	50.25	-17.95	68.2	36.92	35.02	13.18	34.87	400	261	P	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	105.22	-	-	91.83	35.1	13.09	34.8	284	167	P	H
	*	5825	97.78	-	-	84.39	35.1	13.09	34.8	284	167	A	H
		5854.4	50.84	-61.33	112.17	37.54	35.01	13.11	34.82	284	167	P	H
		5869.6	49.96	-56.75	106.71	36.62	35.04	13.13	34.83	284	167	P	H
		5896	51.26	-38.36	89.62	37.86	35.09	13.15	34.84	284	167	P	H
		5949	50.91	-17.29	68.2	37.59	35	13.19	34.87	284	167	P	H
													H
													H
	*	5825	101.78	-	-	88.39	35.1	13.09	34.8	398	262	P	V
	*	5825	94.93	-	-	81.54	35.1	13.09	34.8	398	262	A	V
		5854	50.41	-62.67	113.08	37.11	35.01	13.11	34.82	398	262	P	V
		5859	50.14	-59.54	109.68	36.82	35.02	13.12	34.82	398	262	P	V
		5902.8	50.68	-33.91	84.59	37.29	35.09	13.15	34.85	398	262	P	V
		5937.8	50.64	-17.56	68.2	37.31	35.02	13.18	34.87	398	262	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	61.5	-12.5	74	60.84	38.18	19.48	57	385	205	P	H
		11490	52.19	-1.81	54	51.53	38.18	19.48	57	385	205	A	H
		17235	50.54	-17.66	68.2	40.98	41.64	23.91	55.99	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	58.53	-15.47	74	57.87	38.18	19.48	57	100	119	P	V
		11490	48.33	-5.67	54	47.67	38.18	19.48	57	100	119	A	V
		17235	50.55	-17.65	68.2	40.99	41.64	23.91	55.99	-	-	P	V
													V
													V
													V
													V
													V
													V
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													V
													V
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													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		11570	62.78	-11.22	74	61.86	38.24	19.53	56.85	393	208	P	H
		11570	52.96	-1.04	54	52.04	38.24	19.53	56.85	393	208	A	H
		17355	50.72	-17.48	68.2	41.11	41.41	24	55.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	63.19	-10.81	74	62.27	38.24	19.53	56.85	100	119	P	V
		11570	52.73	-1.27	54	51.81	38.24	19.53	56.85	100	119	A	V
		17355	50.74	-17.46	68.2	41.13	41.41	24	55.8	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		5639.4	50	-18.2	68.2	36.92	34.94	12.84	34.7	357	159	P	H
		5690.6	50.38	-47.89	98.27	37.04	35.16	12.91	34.73	357	159	P	H
		5705.6	50.73	-56.04	106.77	37.34	35.2	12.93	34.74	357	159	P	H
		5722.8	53.51	-63.67	117.18	40.09	35.2	12.96	34.74	357	159	P	H
	*	5745	108.72	-	-	95.29	35.2	12.99	34.76	357	159	P	H
	*	5745	99.85	-	-	86.42	35.2	12.99	34.76	357	159	A	H
													H
													H
		5600.2	49.11	-19.09	68.2	36.31	34.7	12.78	34.68	400	65	P	V
		5686.2	50.04	-44.98	95.02	36.72	35.14	12.9	34.72	400	65	P	V
		5716	49.48	-60.2	109.68	36.07	35.2	12.95	34.74	400	65	P	V
		5724.2	48.85	-71.53	120.38	35.44	35.2	12.96	34.75	400	65	P	V
	*	5745	101.17	-	-	87.74	35.2	12.99	34.76	400	65	P	V
	*	5745	93.67	-	-	80.24	35.2	12.99	34.76	400	65	A	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		5646.2	50.97	-17.23	68.2	37.84	34.98	12.85	34.7	289	166	P	H
		5675.2	49.86	-37.03	86.89	36.59	35.1	12.89	34.72	289	166	P	H
		5710.2	50.09	-57.97	108.06	36.69	35.2	12.94	34.74	289	166	P	H
		5720.6	49.34	-62.83	112.17	35.93	35.2	12.95	34.74	289	166	P	H
	*	5785	108.2	-	-	94.73	35.2	13.05	34.78	289	166	P	H
	*	5785	99.61	-	-	86.14	35.2	13.05	34.78	289	166	A	H
		5850	49.61	-72.59	122.2	36.32	35	13.11	34.82	289	166	P	H
		5858	51.02	-58.94	109.96	37.7	35.02	13.12	34.82	289	166	P	H
		5912.2	52.15	-25.49	77.64	38.76	35.08	13.16	34.85	289	166	P	H
		5949	51.1	-17.1	68.2	37.78	35	13.19	34.87	289	166	P	H
													H
													H
		5648.6	50.08	-18.12	68.2	36.94	34.99	12.85	34.7	400	261	P	V
		5685.2	50.23	-44.05	94.28	36.91	35.14	12.9	34.72	400	261	P	V
		5715	49.26	-60.14	109.4	35.85	35.2	12.95	34.74	400	261	P	V
		5722.6	49.33	-67.4	116.73	35.91	35.2	12.96	34.74	400	261	P	V
	*	5785	105.15	-	-	91.68	35.2	13.05	34.78	400	261	P	V
	*	5785	96.68	-	-	83.21	35.2	13.05	34.78	400	261	A	V
		5854.8	48.77	-62.49	111.26	35.47	35.01	13.11	34.82	400	261	P	V
		5859.8	50.14	-59.31	109.45	36.82	35.02	13.12	34.82	400	261	P	V
		5899	50.33	-37.07	87.4	36.92	35.1	13.15	34.84	400	261	P	V
		5937	50.14	-18.06	68.2	36.79	35.03	13.18	34.86	400	261	P	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 165 5825MHz	*	5825	105.43	-	-	92.04	35.1	13.09	34.8	284	167	P	H
	*	5825	97.85	-	-	84.46	35.1	13.09	34.8	284	167	A	H
		5851.2	52.8	-66.66	119.46	39.51	35	13.11	34.82	284	167	P	H
		5863.2	50.65	-57.85	108.5	37.32	35.03	13.12	34.82	284	167	P	H
		5914	51.86	-24.45	76.31	38.48	35.07	13.16	34.85	284	167	P	H
		5935.2	51.46	-16.74	68.2	38.11	35.03	13.18	34.86	284	167	P	H
													H
													H
	*	5825	102.87	-	-	89.48	35.1	13.09	34.8	398	262	P	V
	*	5825	95.11	-	-	81.72	35.1	13.09	34.8	398	262	A	V
		5853.8	50.56	-62.98	113.54	37.26	35.01	13.11	34.82	398	262	P	V
		5861	50.42	-58.7	109.12	37.1	35.02	13.12	34.82	398	262	P	V
		5909.4	51.51	-28.2	79.71	38.12	35.08	13.16	34.85	398	262	P	V
		5941.2	51.4	-16.8	68.2	38.07	35.02	13.18	34.87	398	262	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		11490	62.11	-11.89	74	61.45	38.18	19.48	57	384	203	P	H
		11490	52.61	-1.39	54	51.95	38.18	19.48	57	384	203	A	H
		17235	50.16	-18.04	68.2	40.6	41.64	23.91	55.99	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	58.39	-15.61	74	57.73	38.18	19.48	57	100	118	P	V
		11490	49.55	-4.45	54	48.89	38.18	19.48	57	100	118	A	V
		17235	53.38	-14.82	68.2	43.82	41.64	23.91	55.99	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		11570	61.82	-12.18	74	60.9	38.24	19.53	56.85	316	189	P	H
		11570	52.27	-1.73	54	51.35	38.24	19.53	56.85	316	189	A	H
		17355	49.43	-18.77	68.2	39.82	41.41	24	55.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	60.12	-13.88	74	59.2	38.24	19.53	56.85	100	118	P	V
		11570	50.7	-3.3	54	49.78	38.24	19.53	56.85	100	118	A	V
		17355	50.23	-17.97	68.2	40.62	41.41	24	55.8	-	-	P	V
													V
													V
													V
													V
													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE20_Partial 106 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/54 CH 165 5825MHz	*	5825	107.25	-	-	93.86	35.1	13.09	34.8	273	176	P	H
	*	5825	99.04	-	-	85.65	35.1	13.09	34.8	273	176	A	H
		5852.4	49.97	-66.76	116.73	36.68	35	13.11	34.82	273	176	P	H
		5856.6	51.35	-59	110.35	38.04	35.01	13.12	34.82	273	176	P	H
		5892.4	50.64	-41.65	92.29	37.26	35.08	13.14	34.84	273	176	P	H
		5926.4	50.92	-17.28	68.2	37.56	35.05	13.17	34.86	273	176	P	H
													H
													H
	*	5825	103.52	-	-	90.13	35.1	13.09	34.8	378	258	P	V
	*	5825	95.34	-	-	81.95	35.1	13.09	34.8	378	258	A	V
		5850	50.22	-71.98	122.2	36.93	35	13.11	34.82	378	258	P	V
		5870.2	49.67	-56.87	106.54	36.33	35.04	13.13	34.83	378	258	P	V
		5909.4	50.73	-28.98	79.71	37.34	35.08	13.16	34.85	378	258	P	V
		5942.6	50.16	-18.04	68.2	36.84	35.01	13.18	34.87	378	258	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

WIFI 802.11a (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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		40000	46.94	-27.06	74	45.42	44.8	14.92	58.2	-	-	P	H
													H
													H
													H
													H
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												H	

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		61.86	33.83	-6.17	40	50.09	12.02	1.63	29.91	-	-	P	H
		156.09	30.3	-13.2	43.5	41.04	16.58	2.52	29.84	-	-	P	H
		246.27	36.52	-9.48	46	45.64	17.7	3	29.82	-	-	P	H
		736.8	30.26	-15.74	46	27.95	26.78	5.04	29.51	-	-	P	H
		831.3	34.04	-11.96	46	30.23	27.63	5.39	29.21	-	-	P	H
		940.5	33.69	-12.31	46	27.64	29.01	5.75	28.71	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	32.14	-7.86	40	36.68	24.29	1.11	29.94	-	-	P	V
		61.59	30.54	-9.46	40	46.81	12.01	1.63	29.91	-	-	P	V
		243.57	32.84	-13.16	46	42.29	17.39	2.98	29.82	-	-	P	V
		772.5	29.7	-16.3	46	26.34	27.58	5.17	29.39	-	-	P	V
		852.3	31.61	-14.39	46	26.71	28.57	5.48	29.15	-	-	P	V
		958.7	32.53	-13.47	46	25.61	29.72	5.8	28.6	-	-	P	V
													V
													V
													V
													V
													V
													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 Margin 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	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5650	55.45	-12.75	68.2	54.51	32.22	4.58	35.86	103	308	P	H

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

For Peak Limit @ 5650MHz:

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. Margin(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 68.2(dBμV/m)
= -12.75 (dB)

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

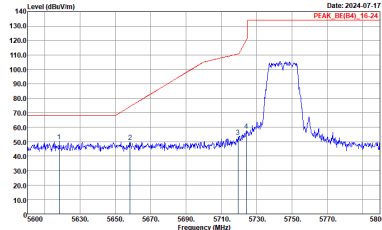
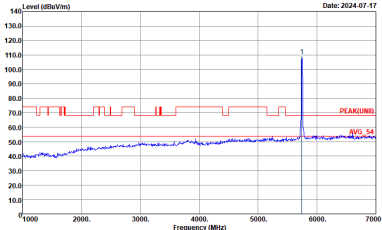
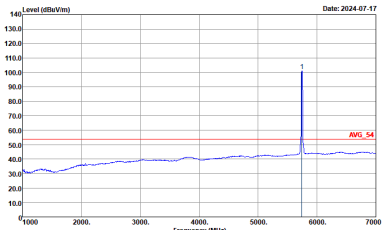


Appendix D. Radiated Spurious Emission Plots

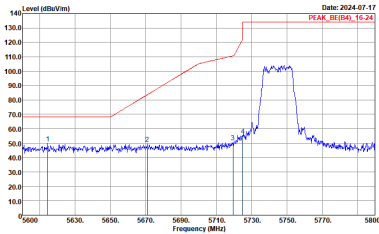
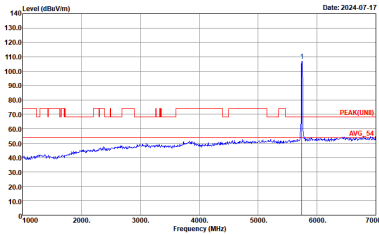
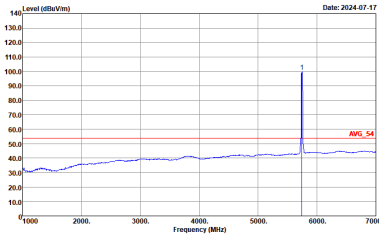
Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	Temperature :	23.9~26.8°C
		Relative Humidity :	43.0~68.2%



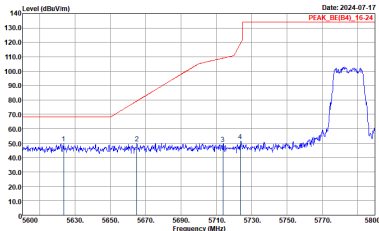
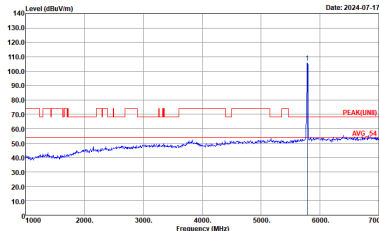
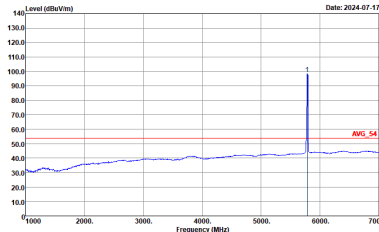
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PSIAK_802.11a_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PSIAK_802.11a_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

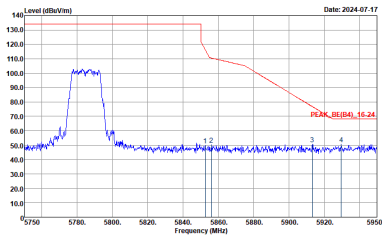


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(LNB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

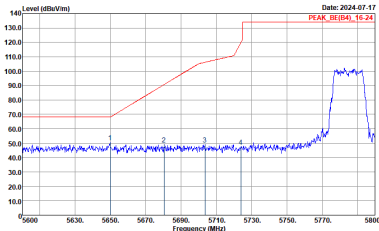
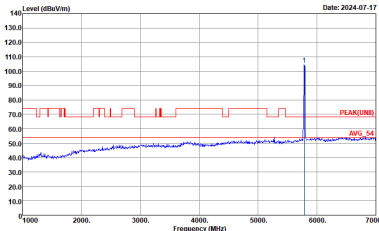
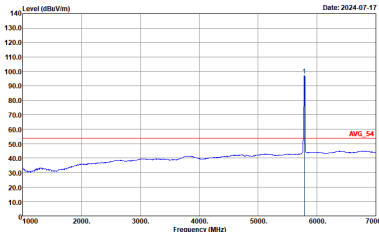


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(LNB) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto

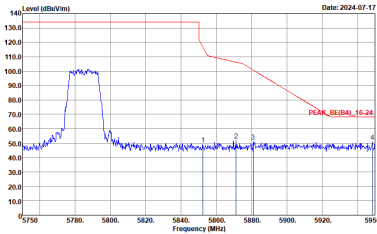


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BUREAU_16-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto	Left blank

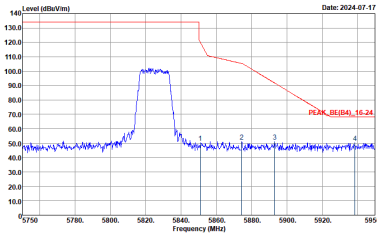
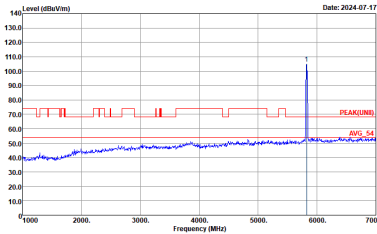
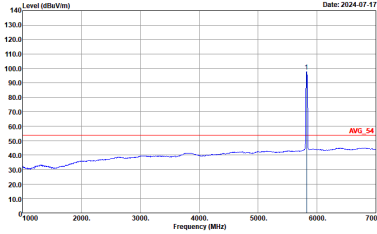


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(LNB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_S4 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

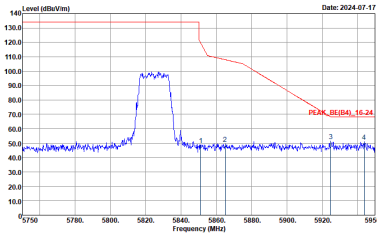
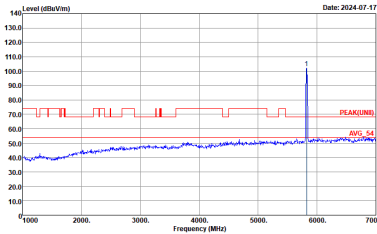
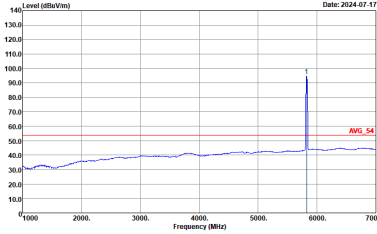


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BURST_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

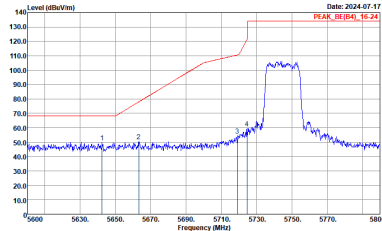
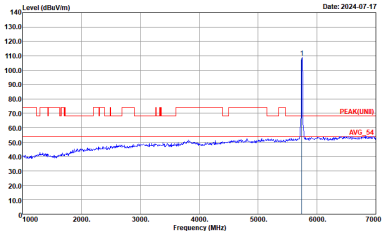
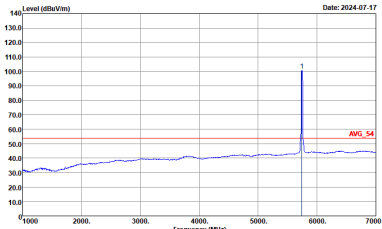


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BU(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(BU) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

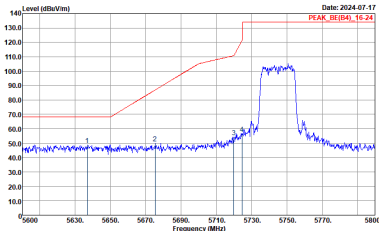
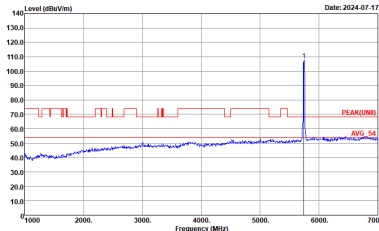
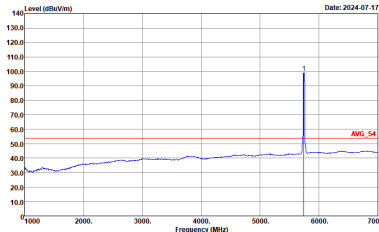


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BUREAU_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(UN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

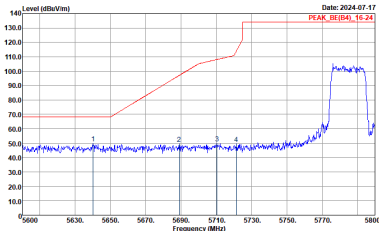
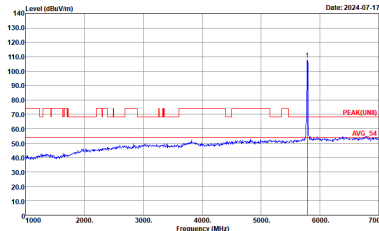
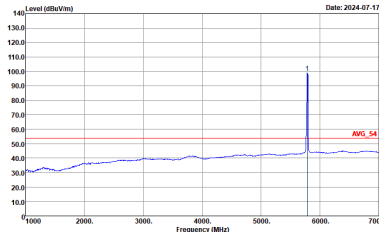
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH07-HY : PEAK_B4_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000kHz VBW:3000.000kHz SWTAuto	 Site Condition : 03CH07-HY : PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site Condition : 03CH07-HY : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWTAuto

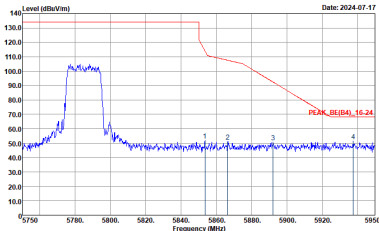


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(LNB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

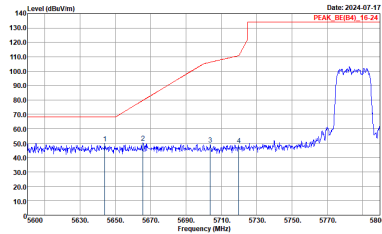
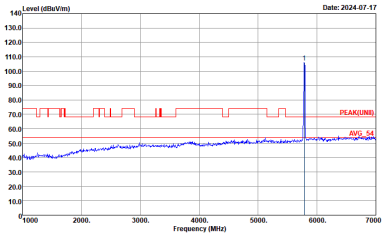
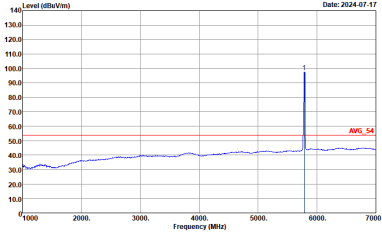


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_UNB 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

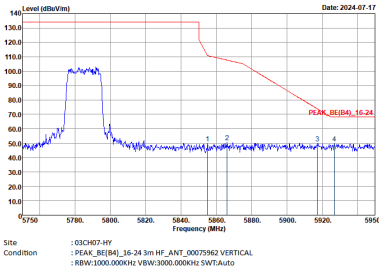


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BURST_16-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

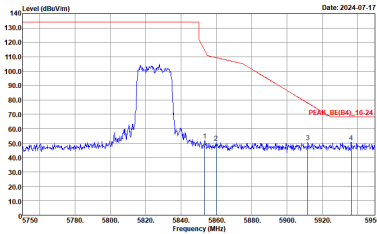
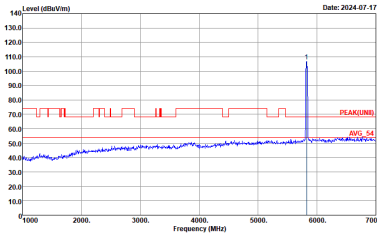
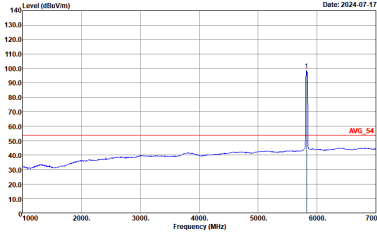


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(LNB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

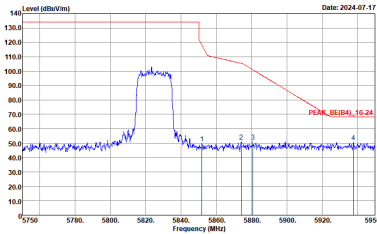
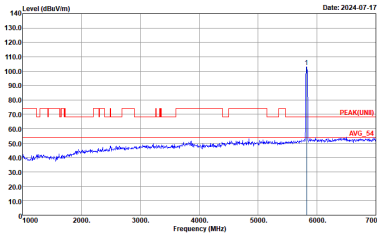
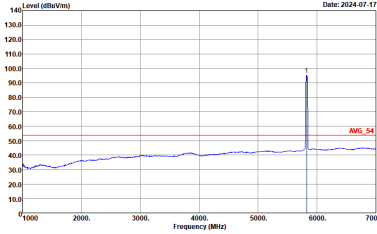


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Vertical	Fundamental
Peak		Left blank



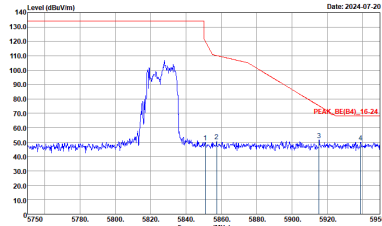
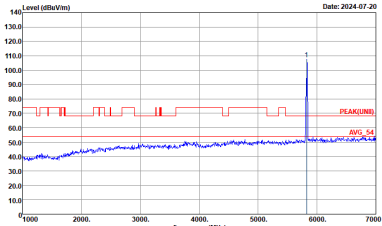
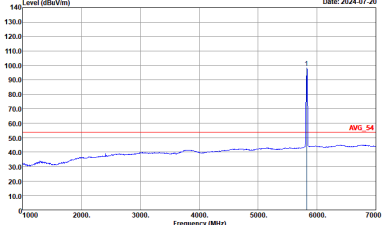
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BUREAU_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(UN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto



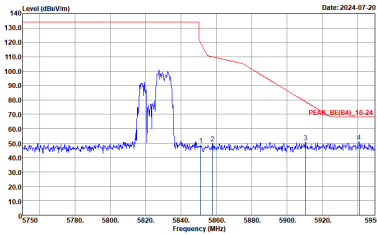
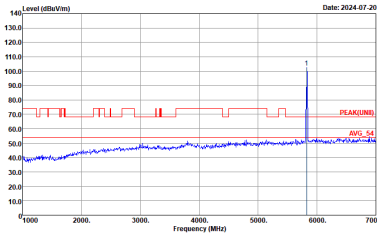
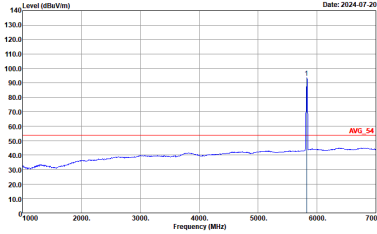
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_S4 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto



Band 4 5725~5850MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

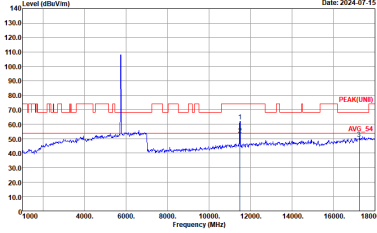
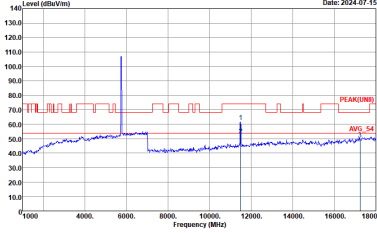
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH07-HY : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000kHz VBW:3000.000kHz SWTAuto	 Site Condition : 03CH07-HY : PEAK(LIN)I 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site Condition : 03CH07-HY : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BUREAU_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK_UMB 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto



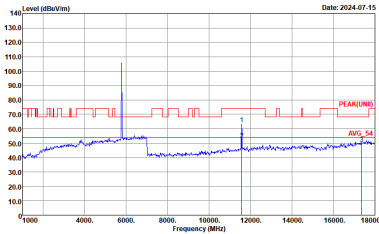
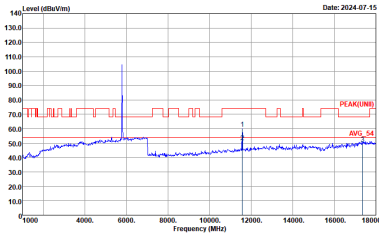
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UM) 3m HF_ANT_00075962 HORIZONTAL 1 : - : -	 Site : 03CH07-HY Condition : PEAK(UM) 3m HF_ANT_00075962 VERTICAL 1 : - : -



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-15. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL -- -- --	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-15. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL -- -- --
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-15. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL -- -- --	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-15. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL -- -- --



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 09CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL - - - - - - - - - -	 Site : 09CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL - - - - - - - - - -



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-15	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-15
	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-15	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-15

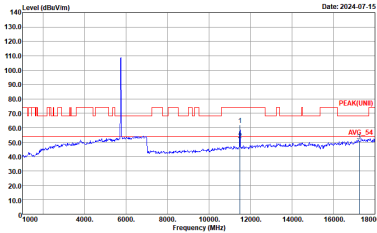
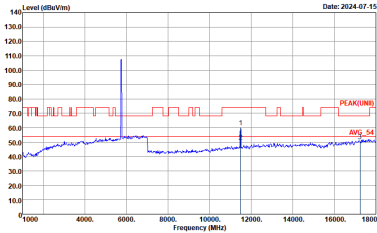
WIFI		Band 4 5725~5850MHz Harmonic @ 3m	
ANT		802.11a CH165 5825MHz	
1	Horizontal	Vertical	
Peak Avg.	Date: 2024-07-15 Site : 03CH07-HY Condition : PEAR(UNW) 3m HF_ANT_00075962 HORIZONTAL PEAR(UNW) AVG_54		
	Date: 2024-07-15 Site : 03CH07-HY Condition : PEAR(UNW) 3m HF_ANT_00075962 VERTICAL PEAR(UNW) AVG_54		



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-15. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL -- -- -- -- --	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-15. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL -- -- -- -- --
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-15. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL -- -- -- -- --	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-15. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL -- -- -- -- --



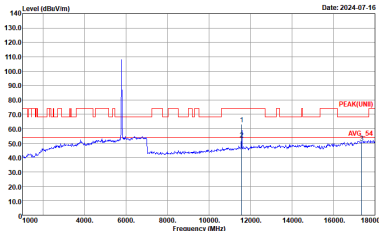
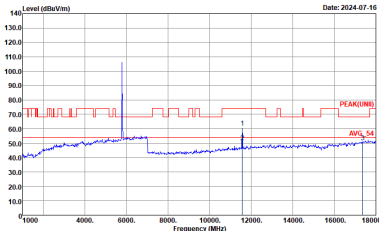
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK (UNB) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK (UNB) 3m HF_ANT_00075962 VERTICAL



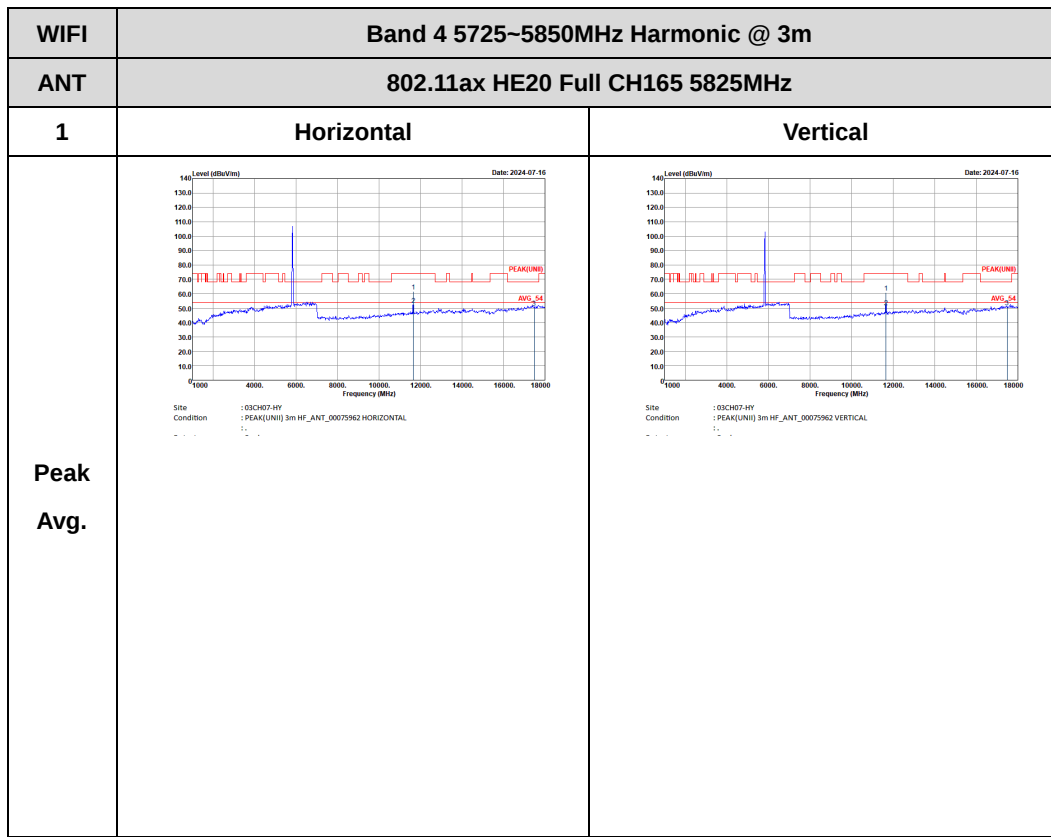
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-15	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-15
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-15	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-15



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 09CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL - - - - - - - - - -	 Site : 09CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL - - - - - - - - - -



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-16. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL -- -- --	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-16. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL -- -- --
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-16. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL -- -- --	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-16. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL -- -- --





WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-16. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL -- -- --	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-16. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL -- -- --
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-16. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL -- -- --	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 40 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2024-07-16. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL -- -- --

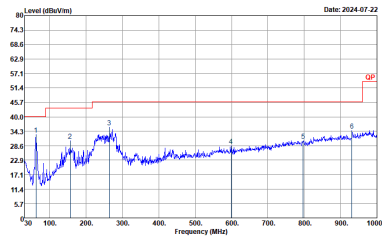
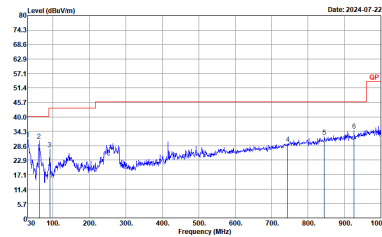


Emission above 18GHz
5GHz WIFI 802.11ax HE20 Full (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ax HE20 Full SHF	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2024-07-22 Site : 03CH07-4H Condition : : PEAK(UM) 1m SHF-EHF_9170991 HORIZONTAL	Level (dBuV/m) Date: 2024-07-22 Site : 03CH07-4H Condition : : PEAK(UM) 1m SHF-EHF_9170991 VERTICAL

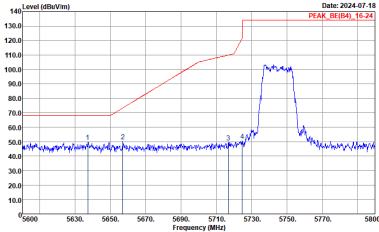
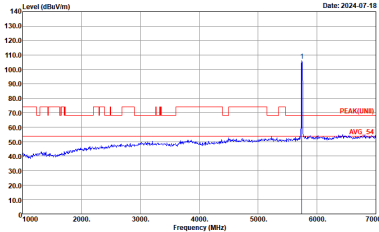
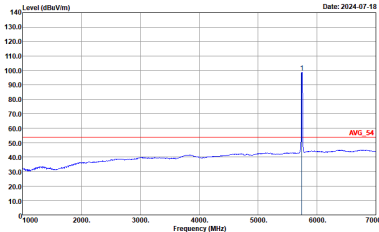
Emission below 1GHz

5GHz WIFI 802.11ax HE20 Full (LF @ 3m)

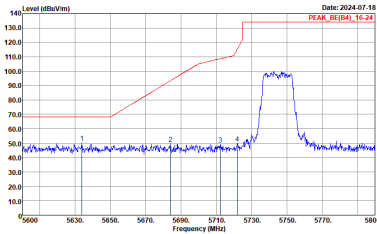
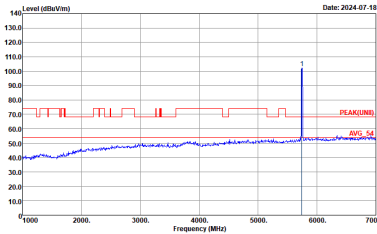
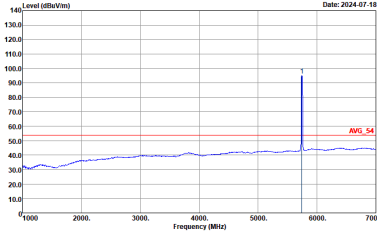
WIFI	5GHz WIFI	
ANT	802.11ax HE20 Full LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H VERTICAL



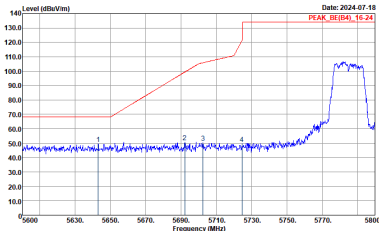
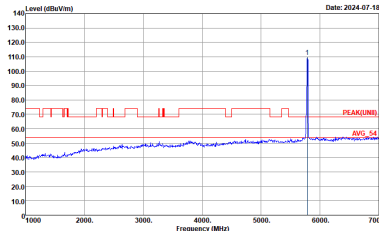
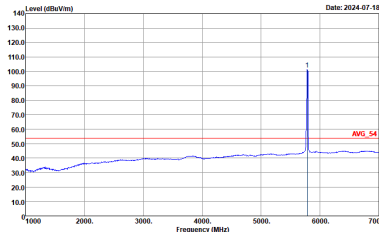
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PSAT_RICM_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PSAT_RICM_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

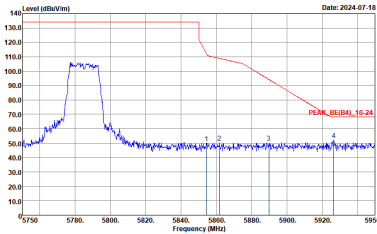


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_LNB 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto

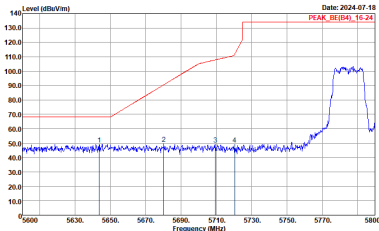
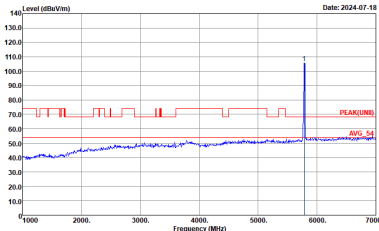
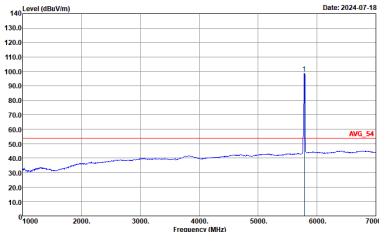


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(LNB) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

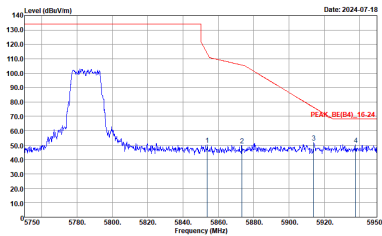


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BURST_16-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

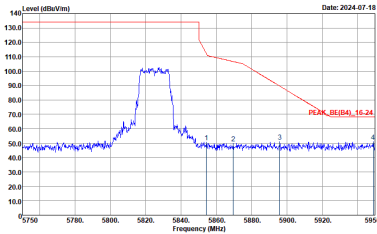
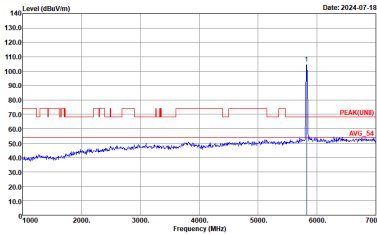
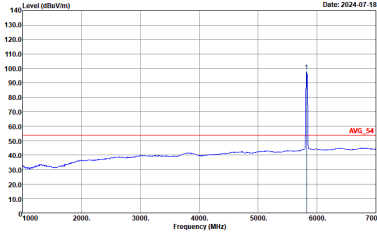


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(LNB)_3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_S4 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

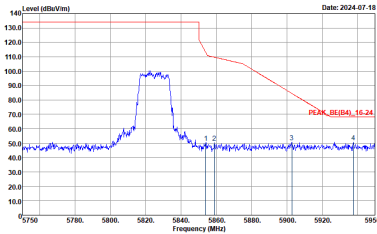
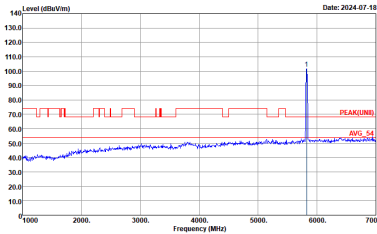
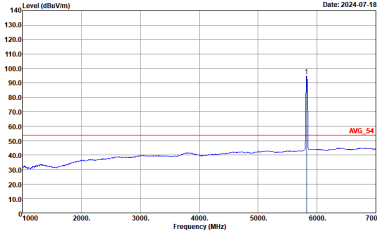


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



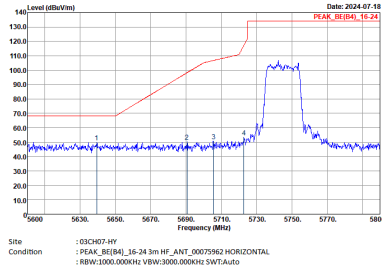
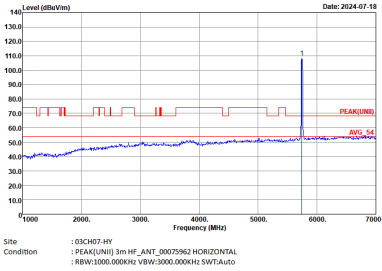
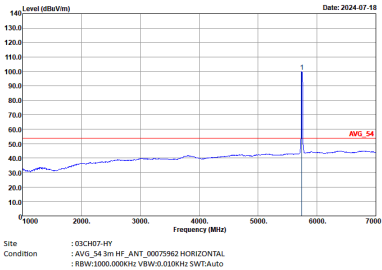
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_80211a_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_80211a_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_80211a_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto



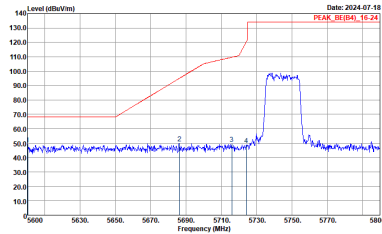
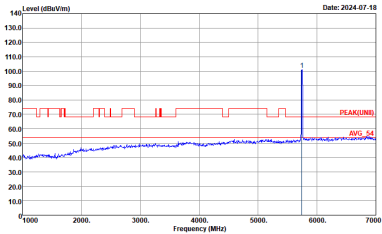
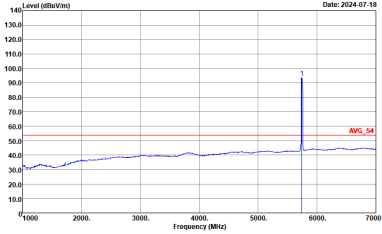
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_80211a_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto



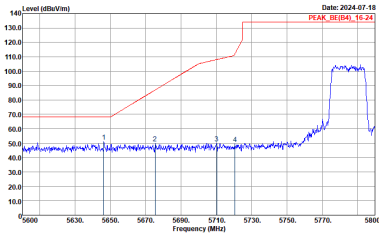
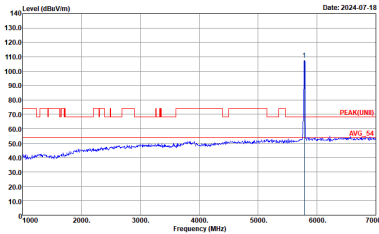
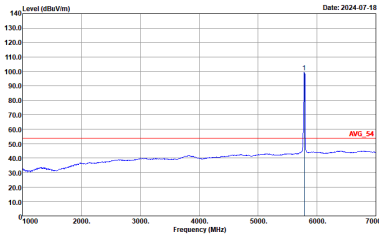
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
2	Horizontal	Fundamental
Peak		
Avg.	Left blank	

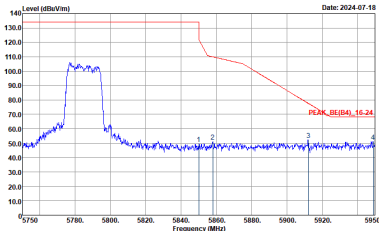


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(LNB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto

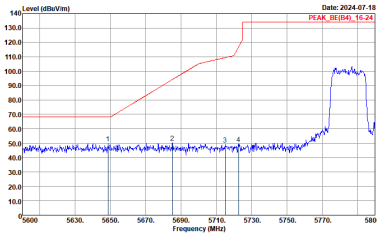
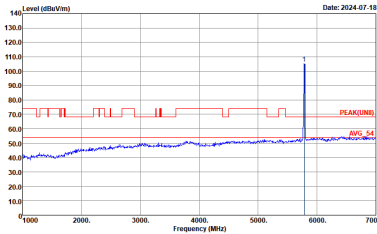
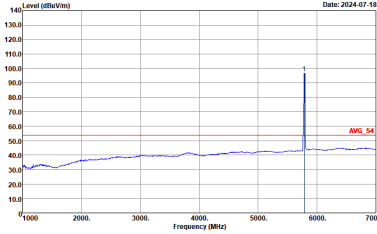


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(LNB) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

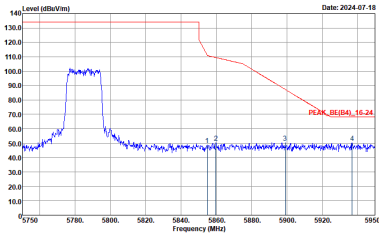


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BUREAU_16-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto	Left blank

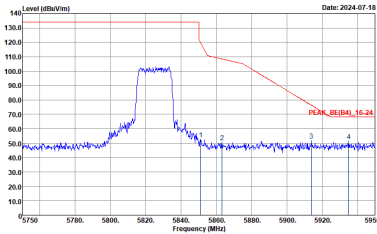
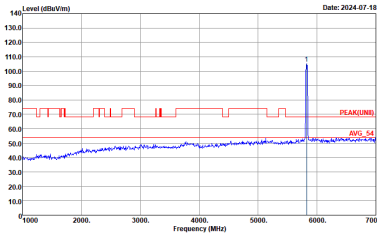
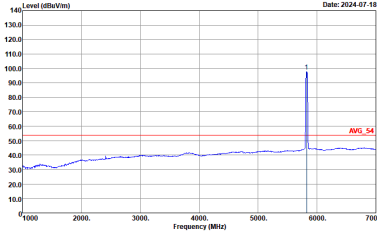


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_RE(B4)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK_UNB() 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

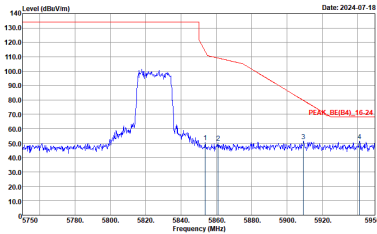
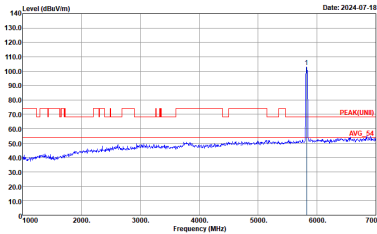
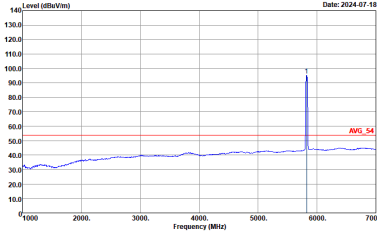


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BUREAU_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



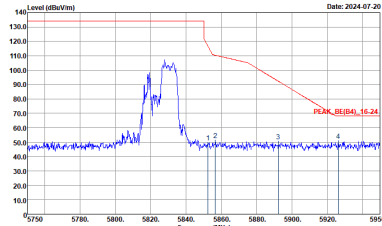
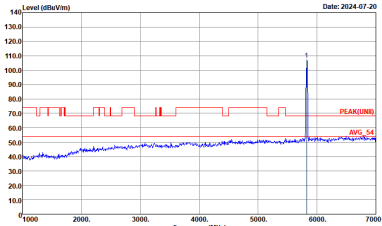
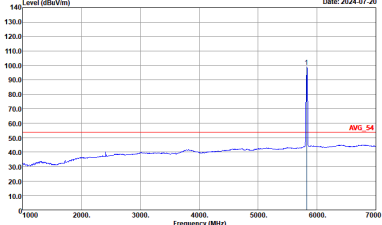
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BUREAU_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(UN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto



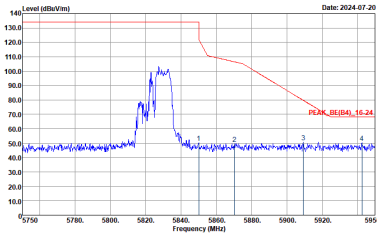
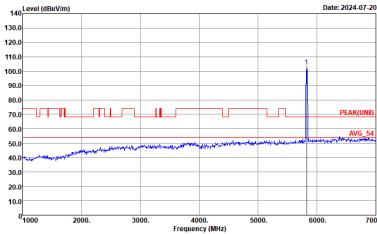
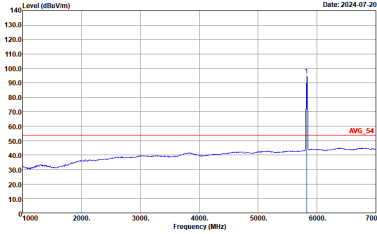
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
	 Site : 03CH07-HY Condition : : AVG_3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : AVG_3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	



Band 4 5725~5850MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

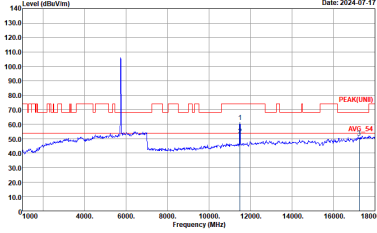
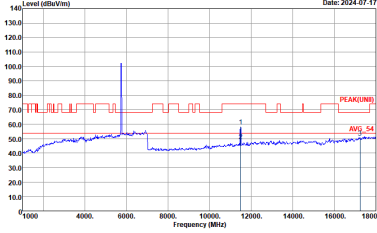
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site Condition : 03CH07-HY : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site Condition : 03CH07-HY : PEAK(LIN)I 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site Condition : 03CH07-HY : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BUREAU_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK_UMB 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto



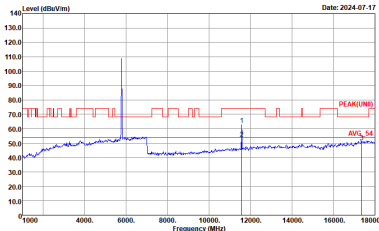
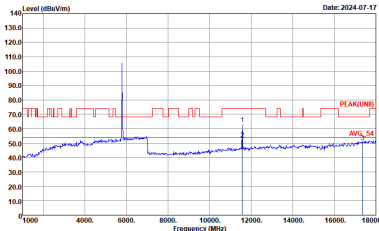
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(U/NII) 3m HF_ANT_00075962 HORIZONTAL - - - - - - - - - -	 Site : 03CH07-HY Condition : PEAK(U/NII) 3m HF_ANT_00075962 VERTICAL - - - - - - - - - -



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
14.47G ~14.5G Avg.	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17
	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17

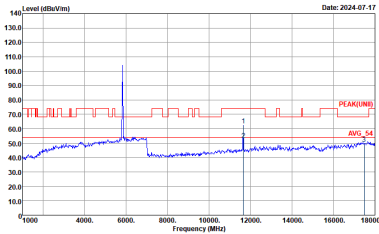
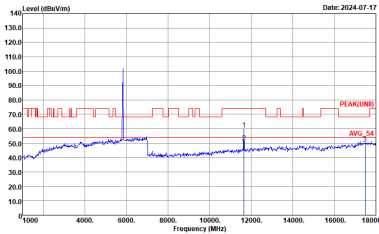


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 09CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL - - - - - - - - - -	 Site : 09CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL - - - - - - - - - -

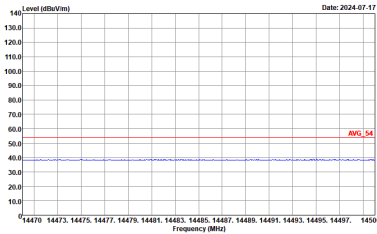
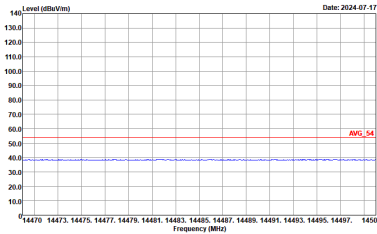
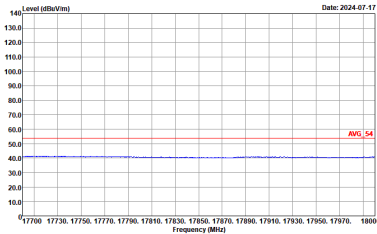
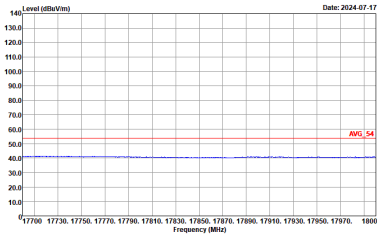


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
14.47G ~14.5G Avg.	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17
	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17



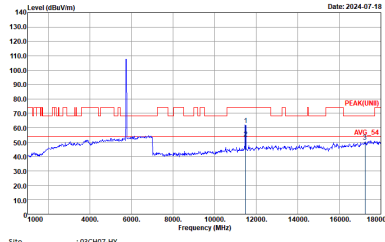
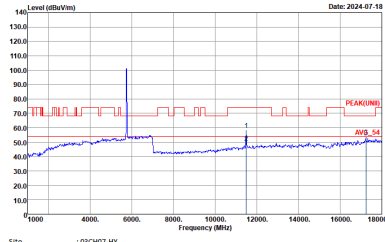
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 09CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL - - - - - - - - - -	 Site : 09CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL - - - - - - - - - -



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17
	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17
17.7G ~18G Avg.		



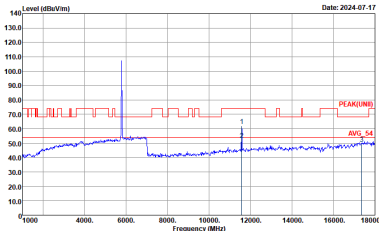
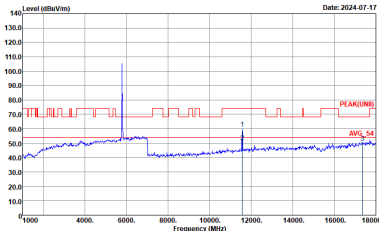
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL

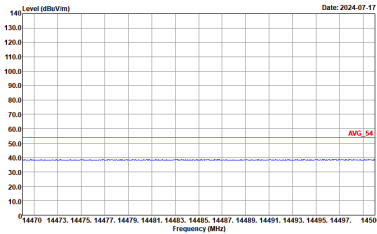
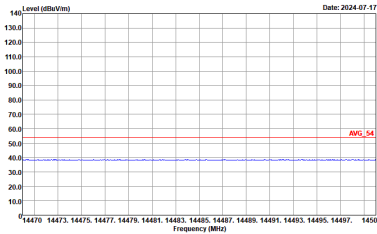
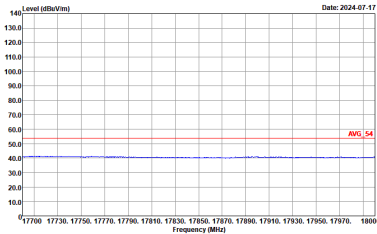
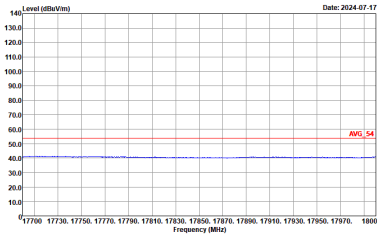


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
2	Horizontal	Vertical
14.47G ~14.5G Avg.	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17
	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 09CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL - - - - - - - - - -	 Site : 09CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL - - - - - - - - - -



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17
	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17
17.7G ~18G Avg.		



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
2	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : PEAR(UNI) 3m HF_ANT_00075962 HORIZONTAL	Site : 03CH07-HY Condition : PEAR(UNI) 3m HF_ANT_00075962 VERTICAL
Avg.		



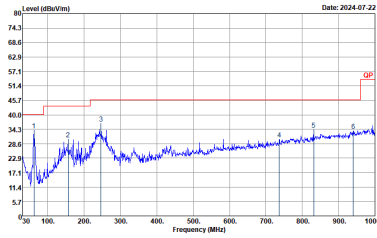
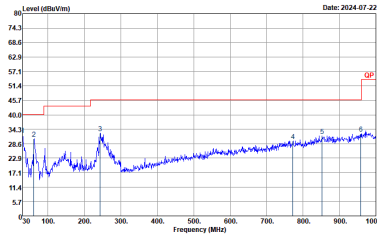
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
2	Horizontal	Vertical
14.47G ~14.5G Avg.	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17
	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Date: 2024-07-17	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Date: 2024-07-17



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

WIFI	5GHz WIFI	
ANT	802.11a SHF	
2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2024-07-22 Site : 03CH07-HY Condition : PEAK(UNB) 1m SHF-EHF_9170991 HORIZONTAL	Level (dBuV/m) Date: 2024-07-22 Site : 03CH07-HY Condition : PEAK(UNB) 1m SHF-EHF_9170991 VERTICAL

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

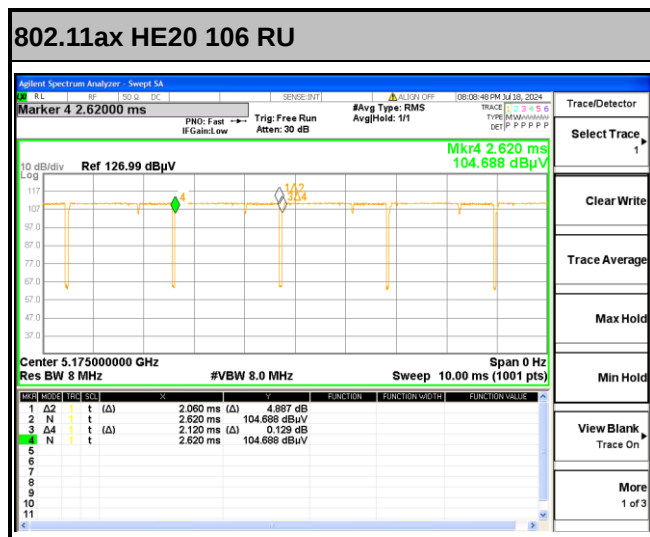
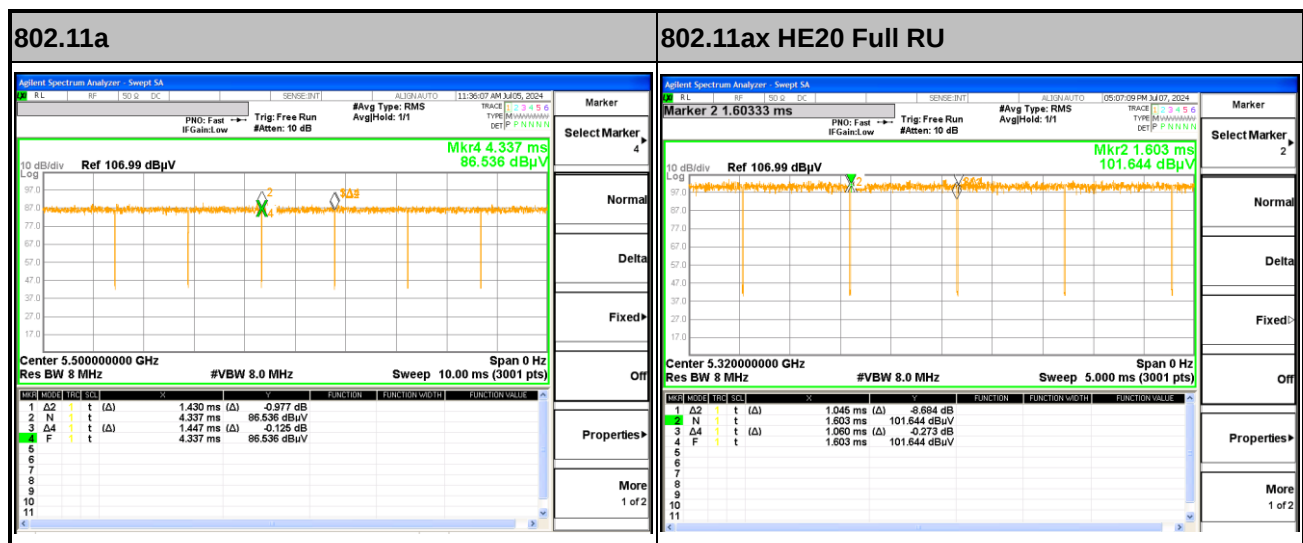
WIFI	5GHz WIFI	
ANT	802.11a LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H VERTICAL



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	98.83	-	-	10Hz
1	802.11ax HE20 Full RU	98.58	-	-	10Hz
1	802.11ax HE20 106 RU	97.17	2060	0.49	1kHz

<Ant. 1>

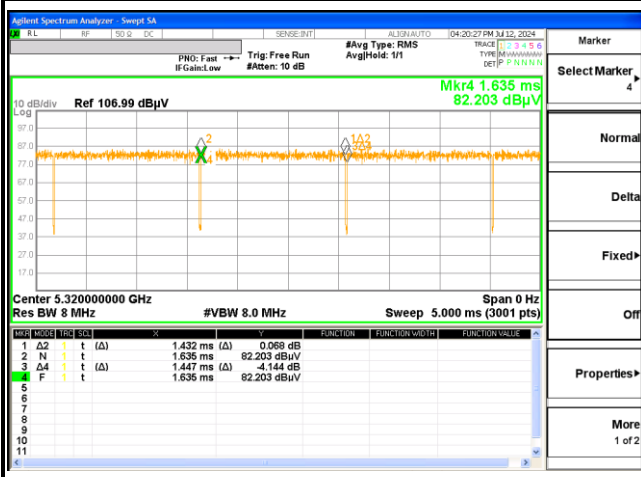




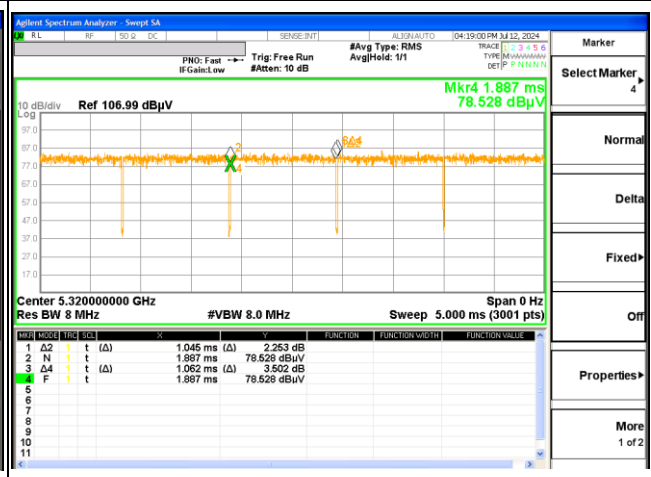
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
2	802.11a	98.96	-	-	10Hz
2	802.11ax HE20 Full RU	98.40	-	-	10Hz
2	802.11ax HE20 106 RU	97.17	2060	0.49	1kHz

<Ant. 2>

802.11a



802.11ax HE20 Full RU



802.11ax HE20 106 RU

