



FCC RADIO TEST REPORT

FCC ID : 2ABOF-G1RN6AHB012
Equipment : Remote Node (RN)
Brand Name : TARANA
Model Name : G1RN6AHB012
Marketing Name : TARANA G1
Applicant : Tarana Wireless
590 Alder Drive, Milpitas, CA 95035
Manufacturer : Tarana Wireless
590 Alder Drive, Milpitas, CA 95035
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jul. 26, 2023 and testing was performed from Oct. 02, 2023 to Nov. 07, 2023. We, Sporton International (USA) Inc, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Approved by: Abi Lin

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



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History of this test report

Report No.	Version	Description	Issue Date
FR230713001-03	01	Initial issue of report	Nov. 10, 2023

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)(4)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(4)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(6)	In-Band Emissions (Channel Mask)	Pass	-
-	15.407(d)(6)	Contention Based Protocol	Not Required	Standard Access Points
3.5	15.407(b)	Unwanted Emissions	Pass	1.30 dB under the limit at 7377.00 MHz
3.6	15.203	Antenna Requirement	Pass	-

Note: Not required means after assessing, test items are not necessary to carry out.

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.

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Fixed Wireless Access Antenna Type Integrated Array Antenna		
Antenna information		
5925 MHz ~ 6425 MHz	Peak Gain (dBi)	14.9
6525 MHz ~ 6875 MHz	Peak Gain (dBi)	15.0

Remark:

- The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna
- The device activate 4 carrier mode operation which has 4 antenna transmitting carrier 0 and carrier 2; the other 4 antenna transmitting carrier 1 and carrier 3.
- Minimum number of spatial stream (Nss) is 4 in 4 carrier operation.
- The EUT is a fixed point-to-point device operating in UNII-5.
Directional Gain (4H/4V) = $14.9\text{dBi} + 10\log(\text{Ntx} = 4 / \text{Nss} = 4) = 14.9\text{dBi}$
The EUT is a fixed point-to-point device operating in UNII-7.
Directional Gain (4H/4V) = $15\text{dBi} + 10\log(\text{Ntx} = 4 / \text{Nss} = 4) = 15.0\text{dBi}$
- The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
Test Site No.	Sporton Site No.
	TH01-CA, 03CH02-CA

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

FCC Designation No.: US1250

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ 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. 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: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)
5925-6425 MHz (U-NII-5) 40MHz	3	5965
	7	5985
	11	6005
	15	6025
	19	6045
	23	6065
	27	6085
	31	6105
	35	6125
	39	6145
	43	6165
	47	6185
	51	6205
	55	6225
	59	6245
	63	6265
	67	6285
	71	6305
	75	6325
	79	6345
	83	6365
	87	6385
	91	6405
5925-6425 MHz (U-NII-5) 40+40MHz	3 + 11	5965 + 6005
	43 + 51	6165 + 6205
	83 + 91	6365 + 6405
	3 + 91	5965 + 6405

Frequency Band	Channel	Freq. (MHz)
5925-6425 MHz (U-NII-5) 40+40+40+40 MHz	3+11+19+27	5965+6005+6045+6085
	35+43+51+59	6125+6165+6205+6245
	67+75+83+91	6285+6325+6365+6405
	3+27+51+91	5965+6085+6205+6405

Frequency Band	Channel	Freq. (MHz)
6525-6875 MHz (U-NII-7) 40MHz	119	6545
	123	6565
	127	6585
	131	6605
	135	6625
	139	6645
	143	6665
	147	6685
	151	6705
	155	6725
	159	6745
	163	6765
	167	6785
	171	6805
	173	6815
	175	6825
	179	6845
	181	6855
6525-6875 MHz (U-NII-7) 40+40MHz	119 + 127	6545 + 6585
	147 + 155	6685 + 6725
	173 + 181	6815 + 6855
	119 + 181	6545 + 6855
6525-6875 MHz (U-NII-7) 40+40+40+40 MHz	119+127+135+143	6545+6585+6625+6665
	139+147+155+163	6645+6685+6725+6765
	157+165+173+181	6735+6775+6815+6855
	119+139+159+181	6545+6645+6745+6855

2.2 Test Mode

<Multi Carrier (Contiguous)>

UNII-5 (5925-6425 MHz)
Channel BW 40MHz + 40MHz + 40MHz + 40MHz
5965MHz+6005MHz+6045MHz+6085MHz
6125MHz+6165MHz+6205MHz+6245MHz
6285MHz+6325MHz+6365MHz+6405MHz

UNII-7 (6525-6875 MHz)
Channel BW 40MHz + 40MHz + 40MHz + 40MHz
6545MHz+6585MHz+6625MHz+6665MHz
6645MHz+6685MHz+6725MHz+6765MHz
6735MHz+6775MHz+6815MHz+6855MHz

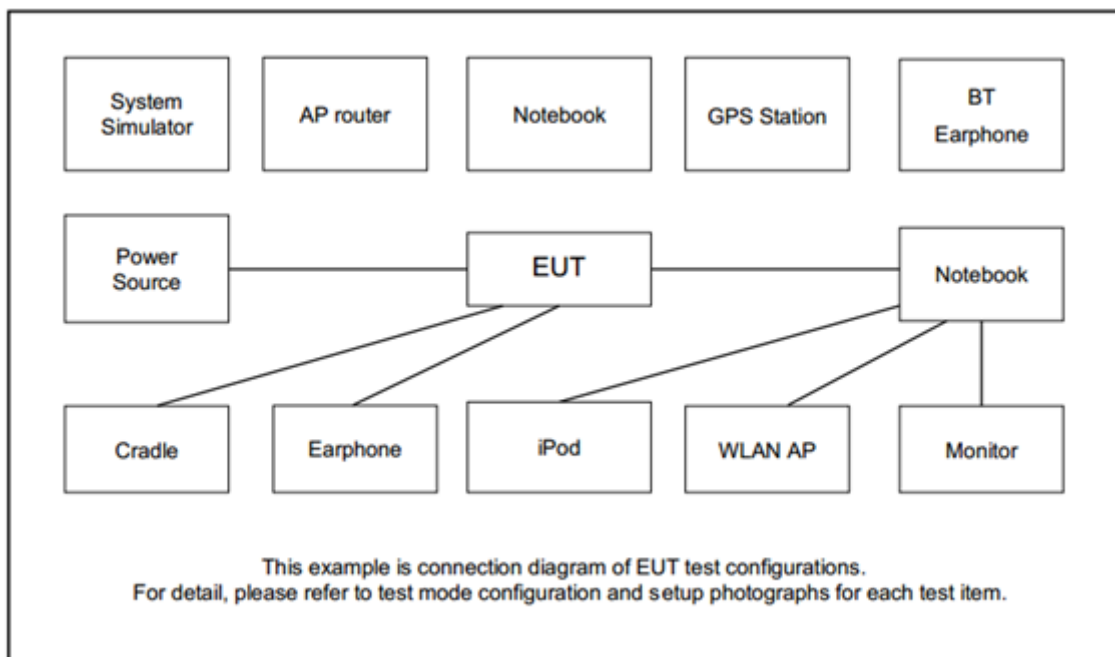
<Multi Carrier (Non-Contiguous)>

UNII-5 (5925-6425 MHz)
Channel BW 40MHz + 40MHz + 40MHz + 40MHz
5965MHz+6085MHz+6205MHz+6405MHz

UNII-7 (6525-6875 MHz)
Channel BW 40MHz + 40MHz + 40MHz + 40MHz
6545MHz+6645MHz+6745MHz+6855MHz

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.	POE	PHIHONG	POE60U-1BTE	N/A	N/A	Unshielded, 1.8 m
2.	Laptop	Lenovo	TP00050C	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility "Putty release 0.62" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Limit of 26dB & 99% Occupied Bandwidth

<FCC 14-30 CFR 15.407>

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

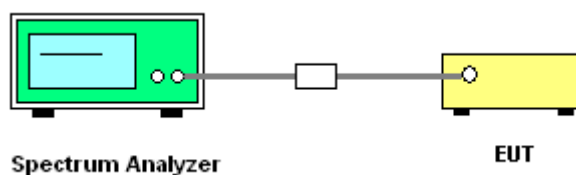
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

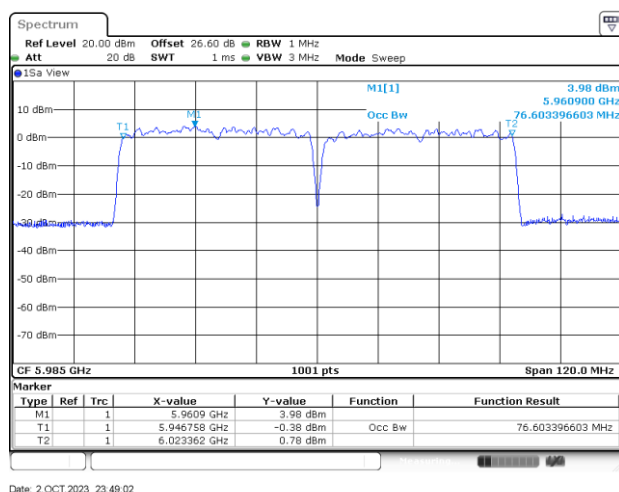


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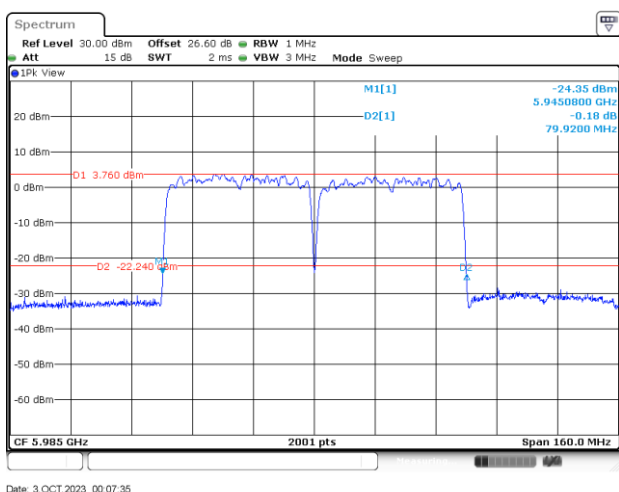
99% Occupied Bandwidth

Carrier 0 + Carrier 2



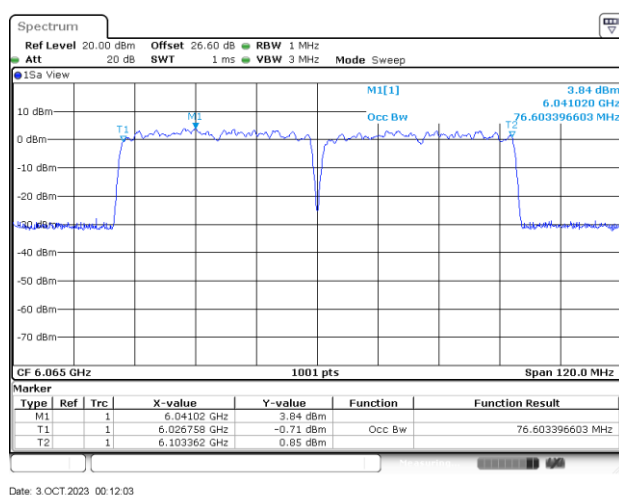
26dB Bandwidth

Carrier 0 + Carrier 2



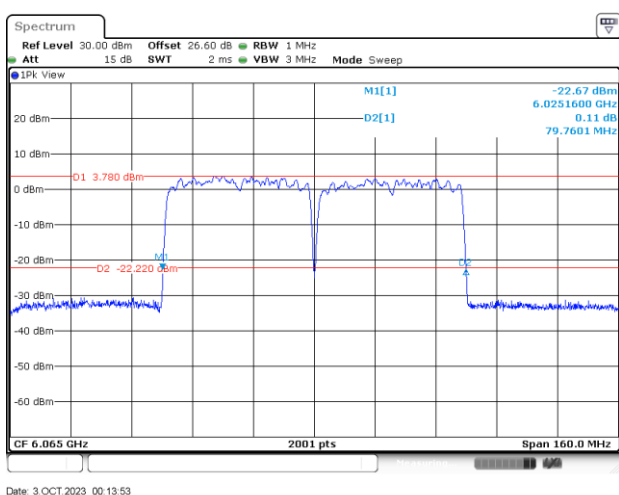
99% Occupied Bandwidth

Carrier 1 + Carrier 3



26dB Bandwidth

Carrier 1 + Carrier 3



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

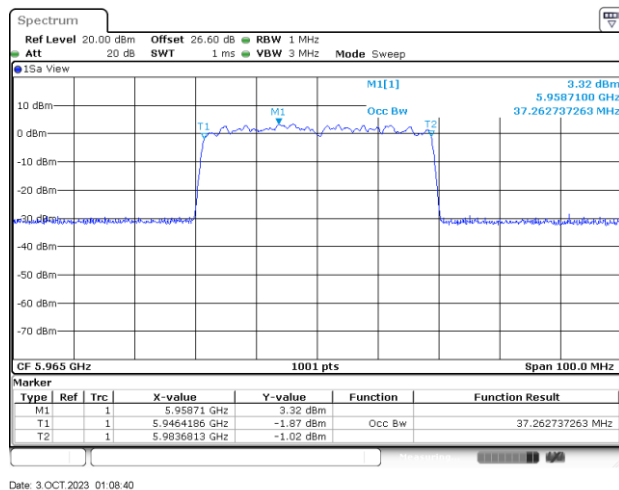


<Multi Carrier (Non-Contiguous)>

<40MHz + 40MHz + 40MHz + 40MHz>

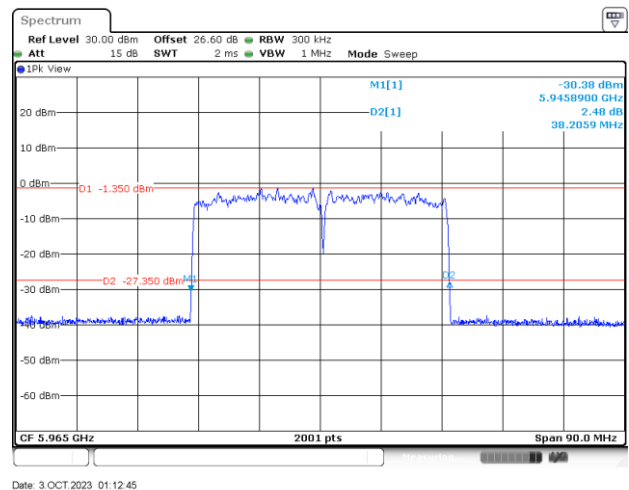
99% Occupied Bandwidth

Carrier 0



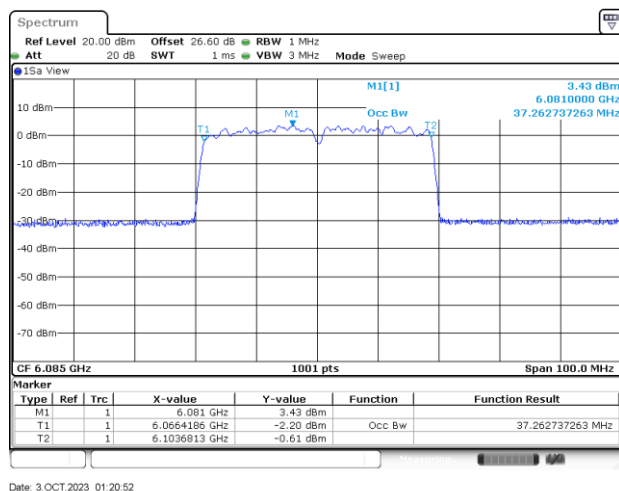
26dB Bandwidth

Carrier 0



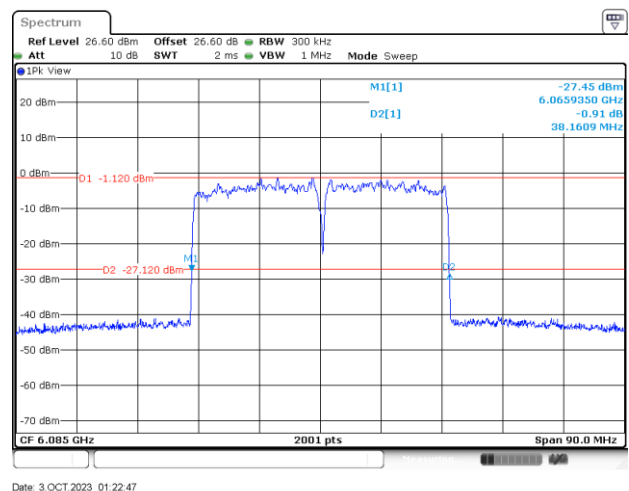
99% Occupied Bandwidth

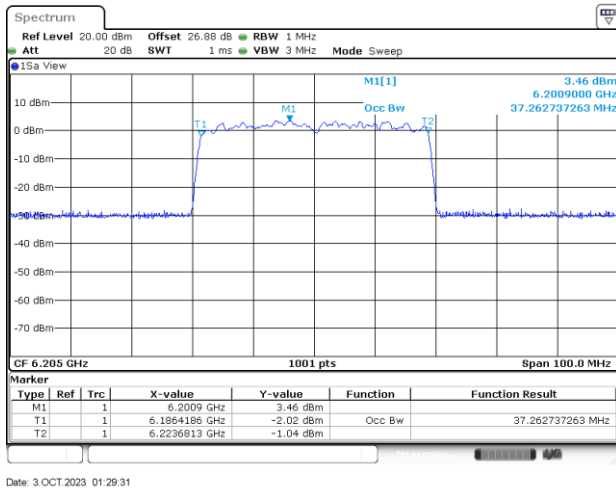
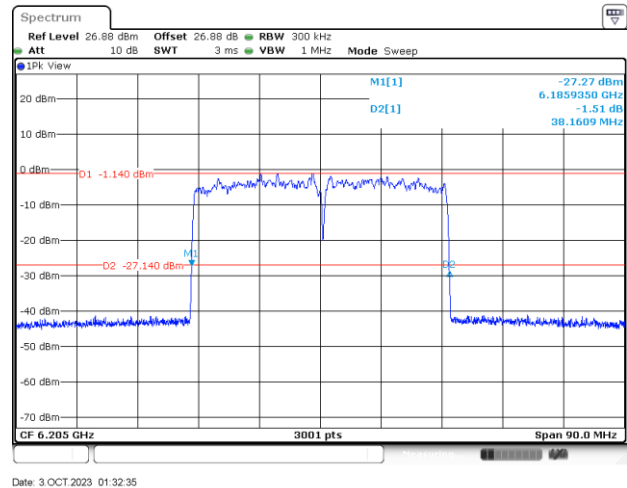
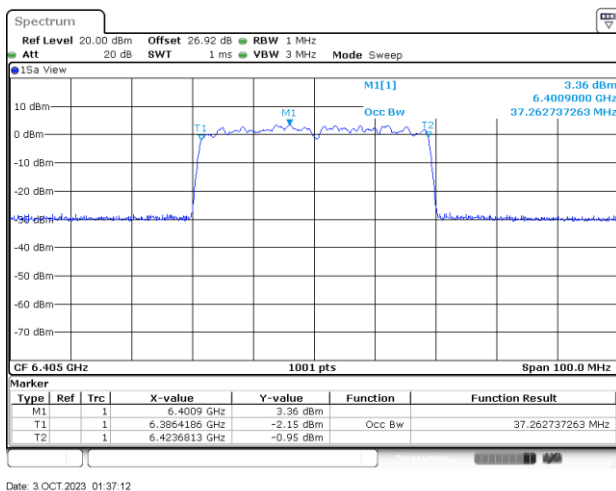
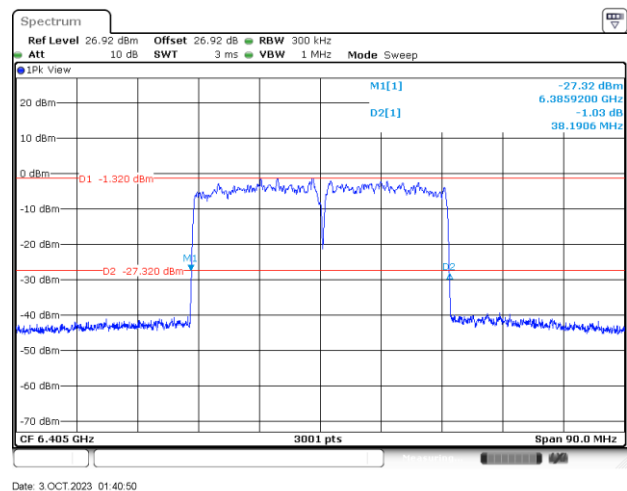
Carrier 2



26dB Bandwidth

Carrier 2

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

**99% Occupied Bandwidth
Carrier 1****26dB Bandwidth
Carrier 1****99% Occupied Bandwidth
Carrier 3****26dB Bandwidth
Carrier 3**

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

3.2 Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(4) For a standard power access point and fixed client device operating in the 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.

For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

3.2.2 Measuring Instruments

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

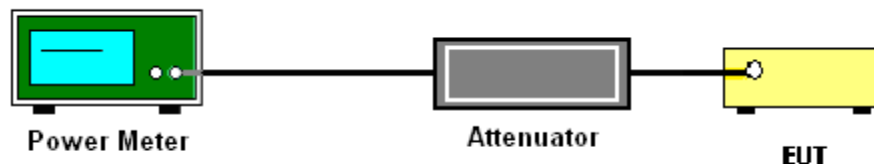
3.2.3 Test Procedures

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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.

3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(4) For a standard power access point and fixed client device operating in the 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

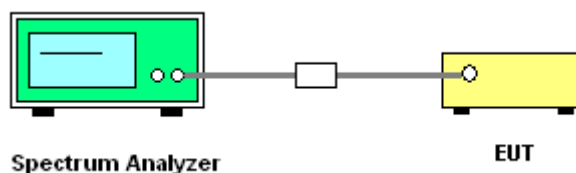
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

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 = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / 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 $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup

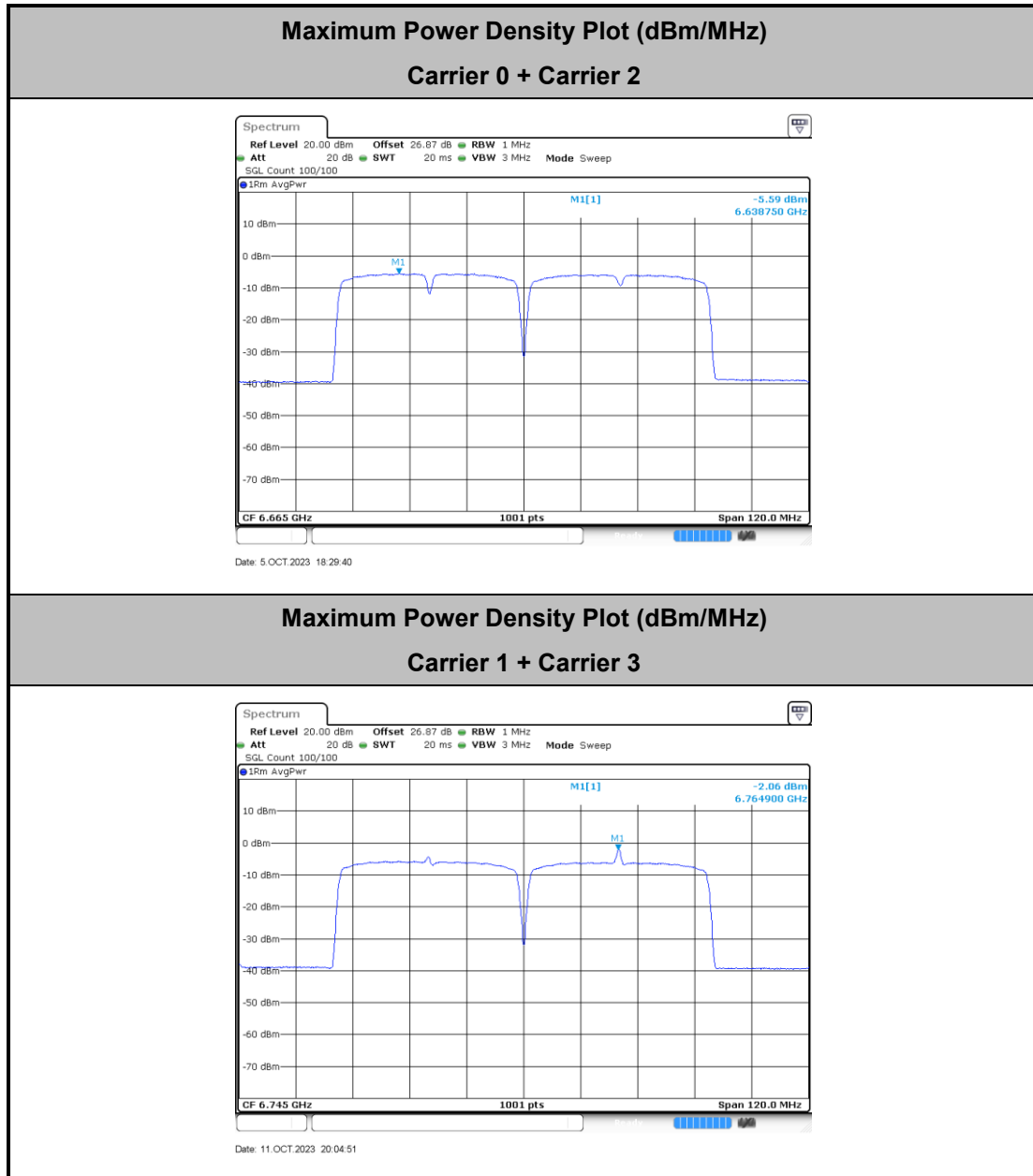


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<Multi Carrier (Contiguous)>

<40MHz + 40MHz + 40MHz + 40MHz>



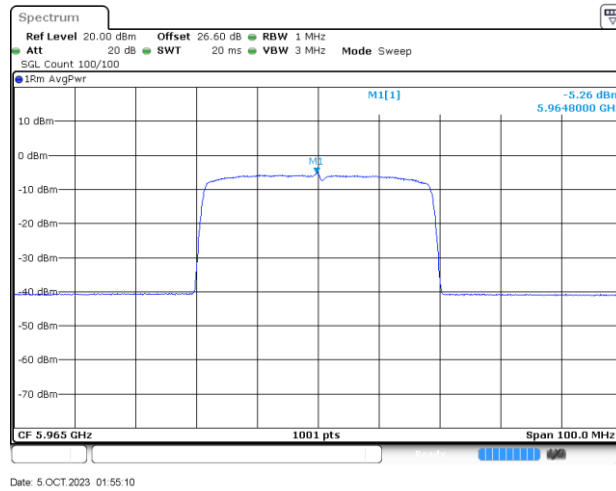


<Multi Carrier (Non-Contiguous)>

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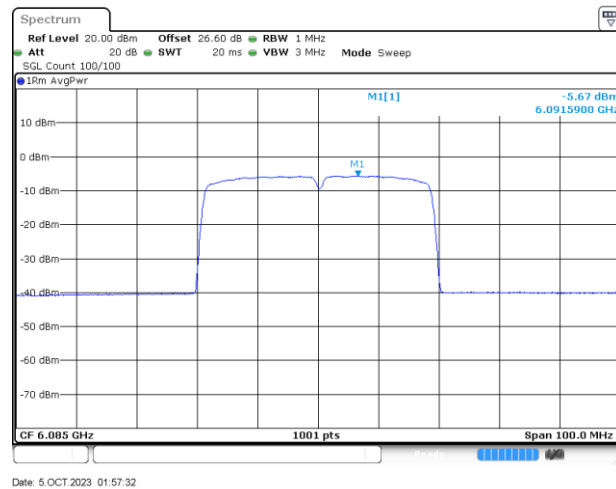
Maximum Power Density Plot (dBm/MHz)

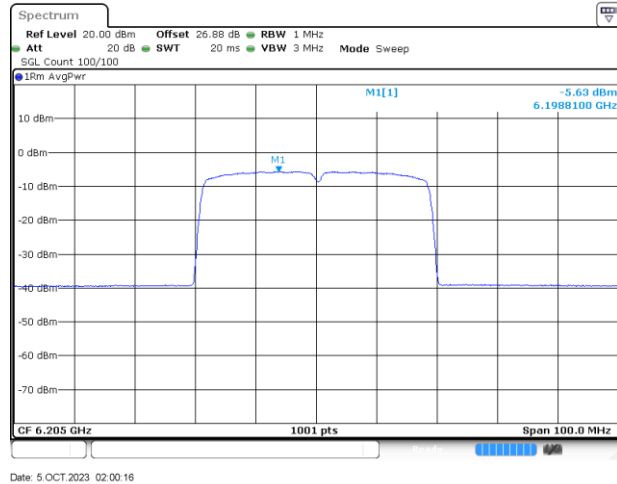
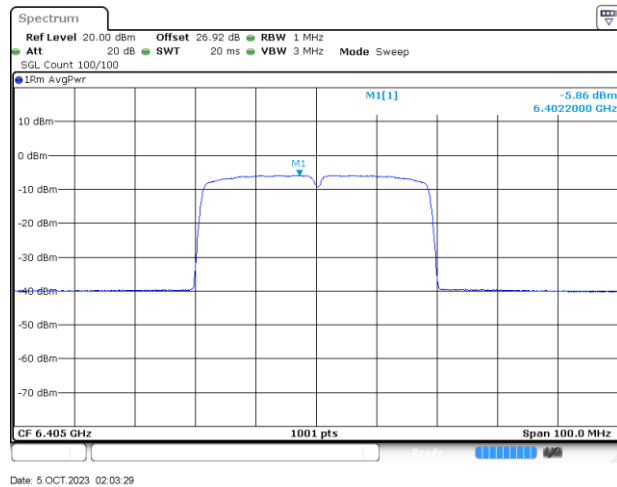
Carrier 0



Maximum Power Density Plot (dBm/MHz)

Carrier 2



Maximum Power Density Plot (dBm/MHz)
Carrier 1

Maximum Power Density Plot (dBm/MHz)
Carrier 3




3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(a)(6) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.4.2 Measuring Instruments

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

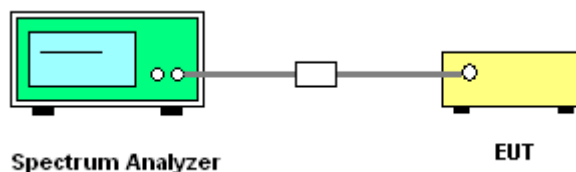
3.4.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup





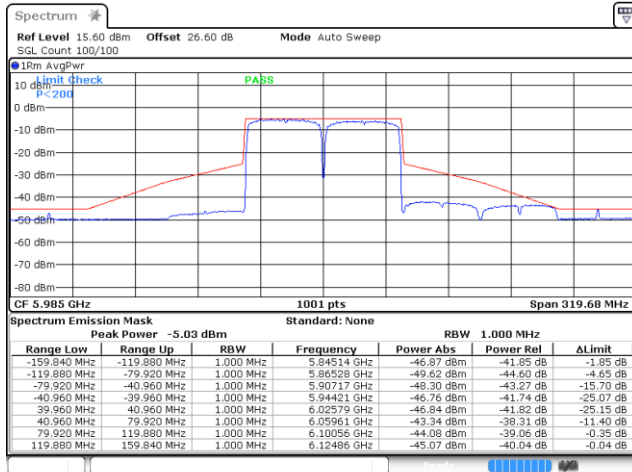
3.4.5 Test Result

<Multi Carrier (Contiguous)>

<40MHz + 40MHz + 40MHz + 40MHz>

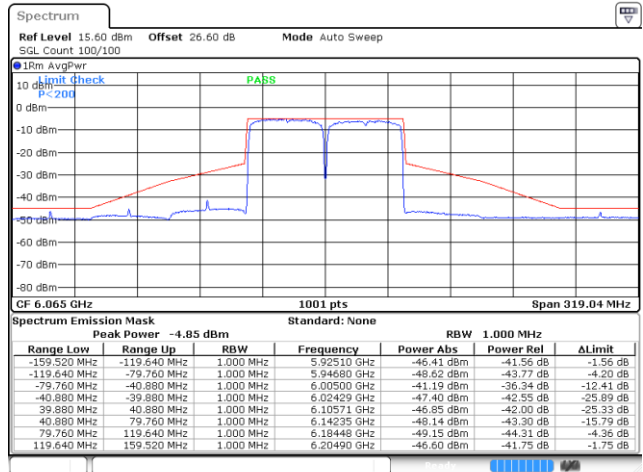
Plot on Channel 5965 MHz + 6005 MHz + 6045 MHz + 6085 MHz

Carrier 0+2



Date: 3.OCT.2023 00:08:25

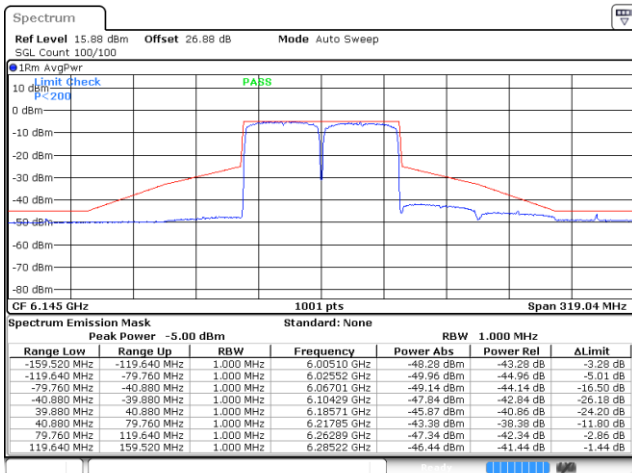
Carrier 1+3



Date: 3.OCT.2023 00:14:12

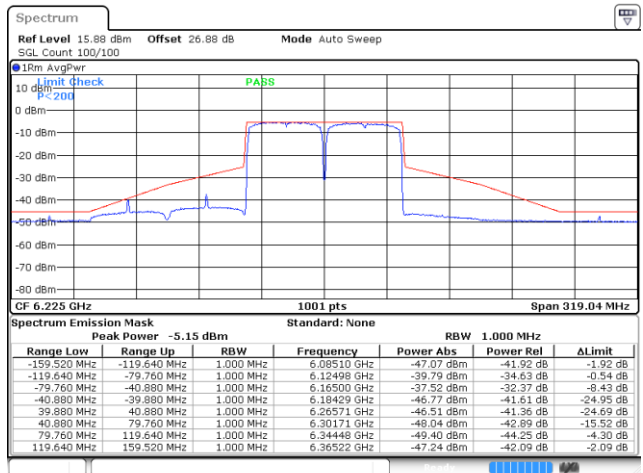
Plot on Channel 6125 MHz + 6165 MHz + 6205 MHz + 6245 MHz

Carrier 0+2



Date: 3.OCT.2023 00:30:40

Carrier 1+3

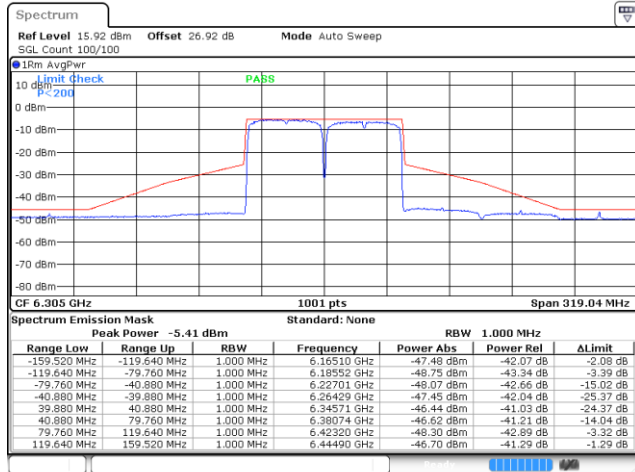


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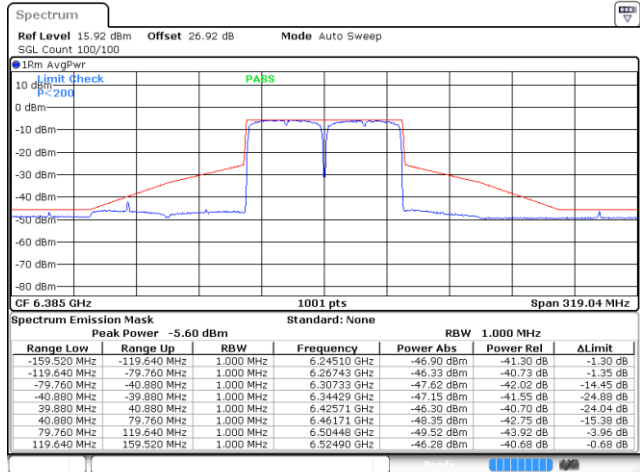
Plot on Channel 6285 MHz + 6325 MHz + 6365 MHz + 6405 MHz

Carrier 0+2



Date: 3.OCT.2023 00:48:22

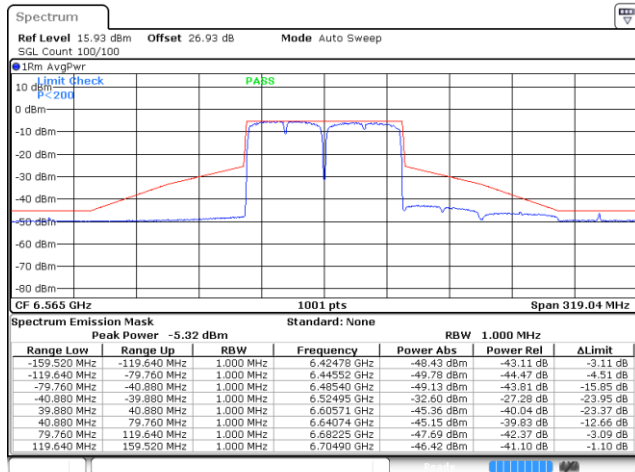
Carrier 1+3



Date: 3.OCT.2023 00:56:32

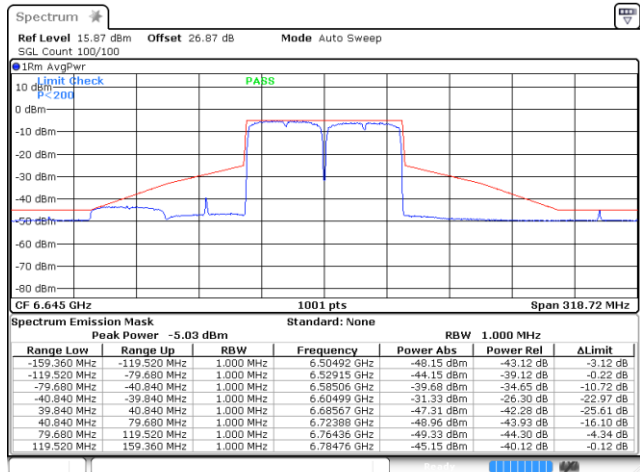
Plot on Channel 6545 MHz + 6585 MHz + 6625 MHz + 6665 MHz

Carrier 0+2



Date: 4.OCT.2023 00:43:35

Carrier 1+3

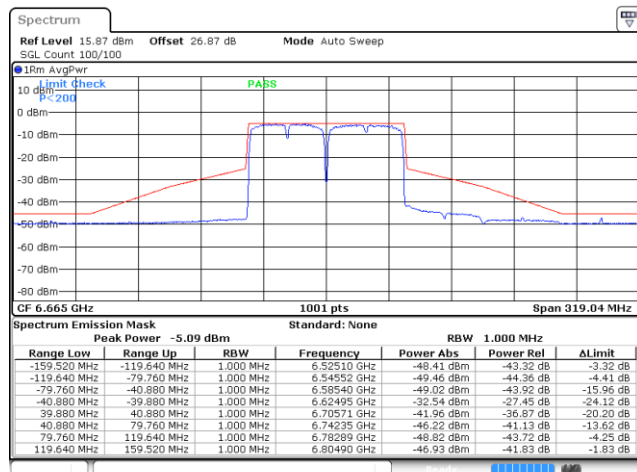


Date: 4.OCT.2023 00:39:30



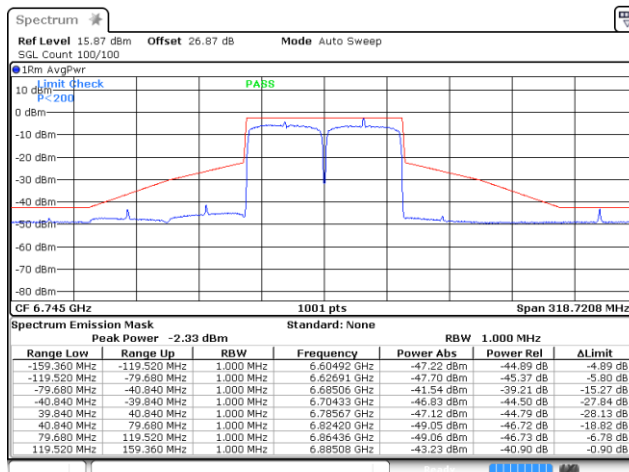
Plot on Channel 6645 MHz + 6685 MHz + 6725 MHz + 6765 MHz

Carrier 0+2



Date: 4.OCT.2023 01:01:59

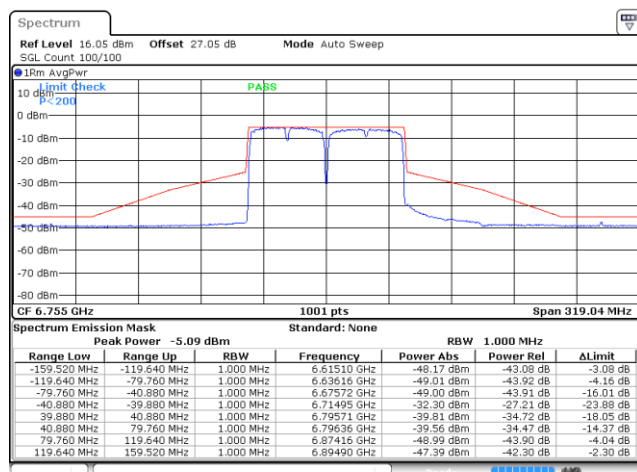
Carrier 1+3



Date: 11.OCT.2023 20:04:28

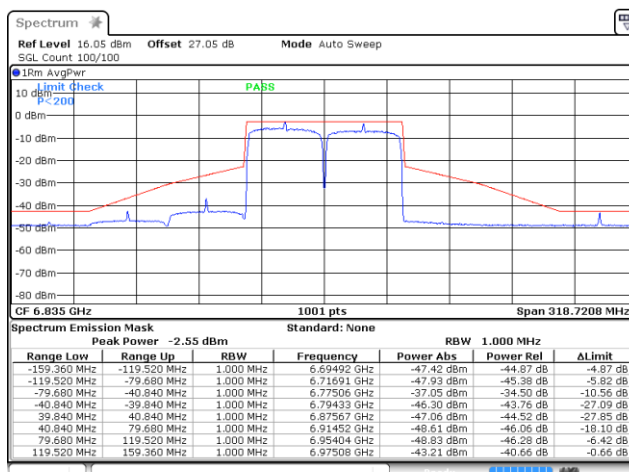
Plot on Channel 6735 MHz + 6775 MHz + 6815 MHz + 6855 MHz

Carrier 0+2



Date: 4.OCT.2023 01:13:14

Carrier 1+3



Date: 11.OCT.2023 20:38:56

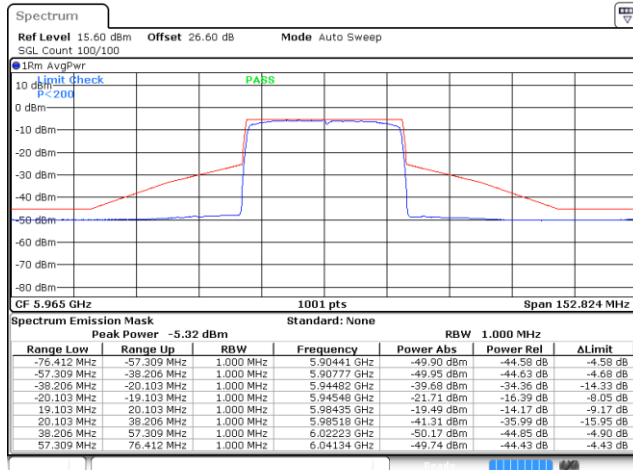


<Multi Carrier (non-Contiguous)>

<40MHz + 40MHz + 40MHz + 40MHz>

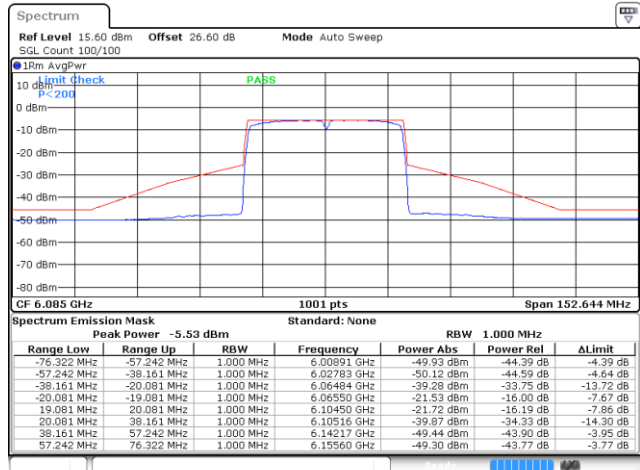
Plot on Channel 5965 MHz + 6085 MHz + 6205 MHz + 6405 MHz

Carrier 0



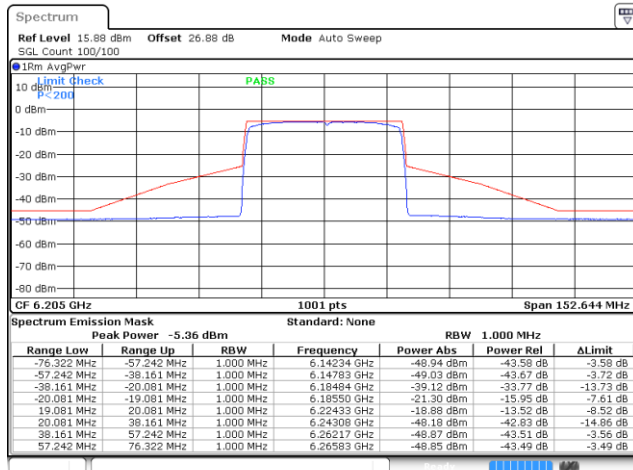
Date: 3.OCT.2023 01:14:32

Carrier 2



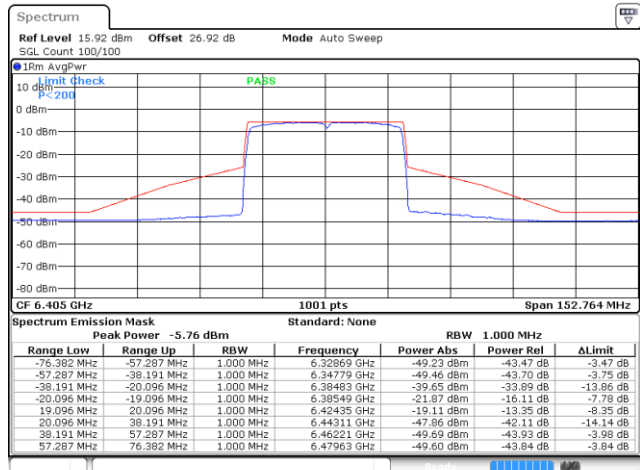
Date: 3.OCT.2023 01:23:10

Carrier 1



Date: 3.OCT.2023 01:32:57

Carrier 3

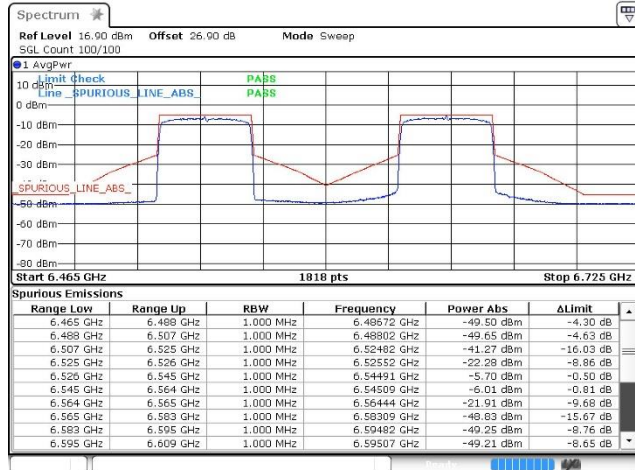


Date: 3.OCT.2023 01:41:13



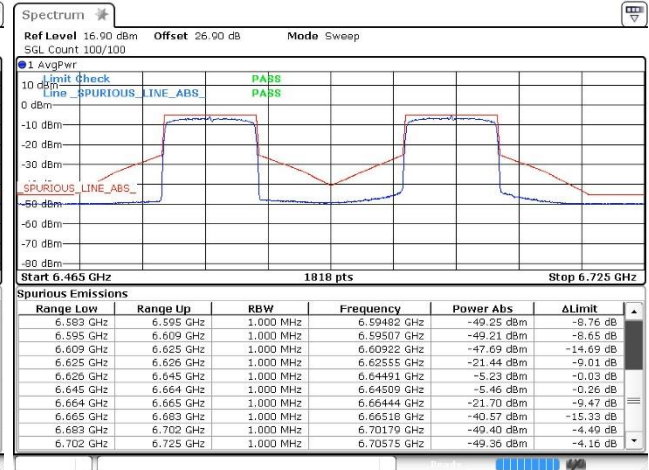
Plot on Channel 6545 MHz + 6645 MHz + 6745 MHz + 6855 MHz

Carrier 0+2



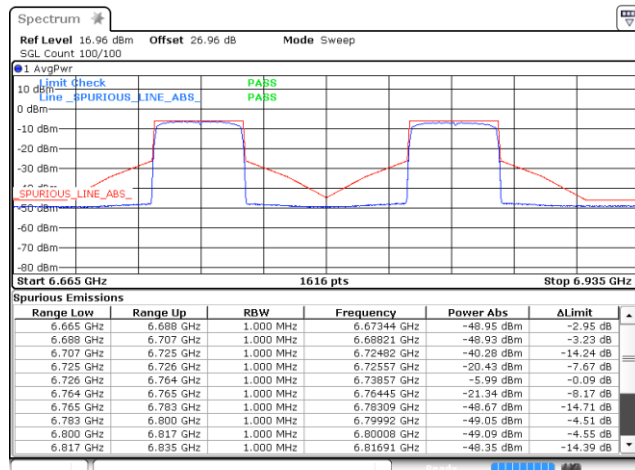
Date: 12 OCT 2023 00:12:50

Carrier 0+2



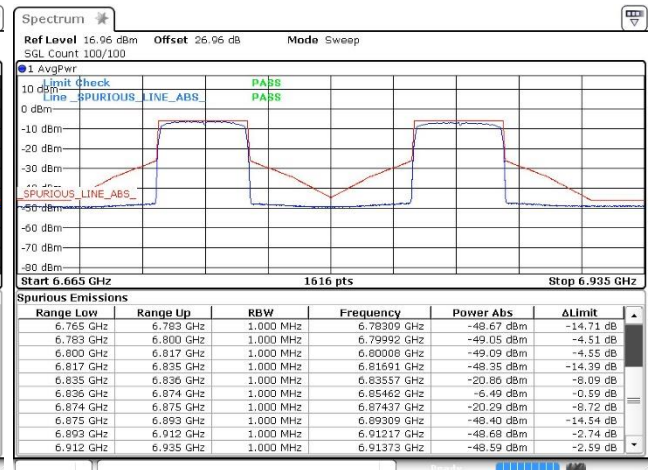
Date: 12 OCT 2023 00:13:05

Carrier 1+3



Date: 11 OCT 2023 23:41:21

Carrier 1+3



Date: 11 OCT 2023 23:44:02

3.5 Unwanted Emissions Measurement

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

3.5.1 Limit of Unwanted Emissions

- (1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v01 section G:

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

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

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

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

3.5.2 Measuring Instruments

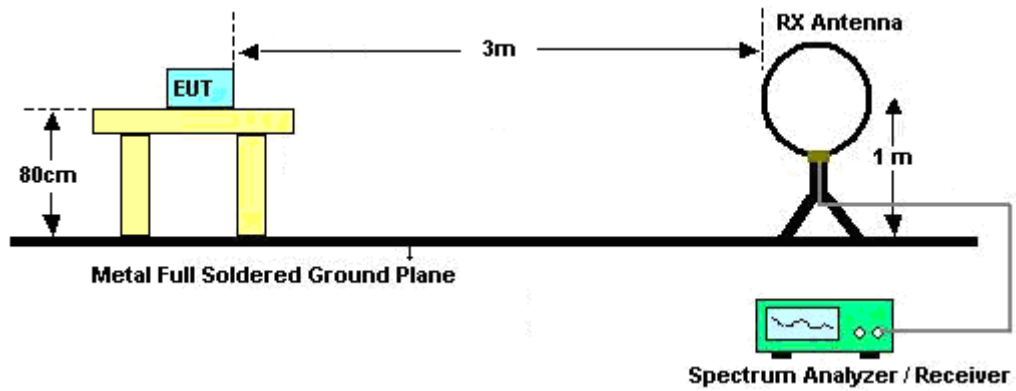
Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

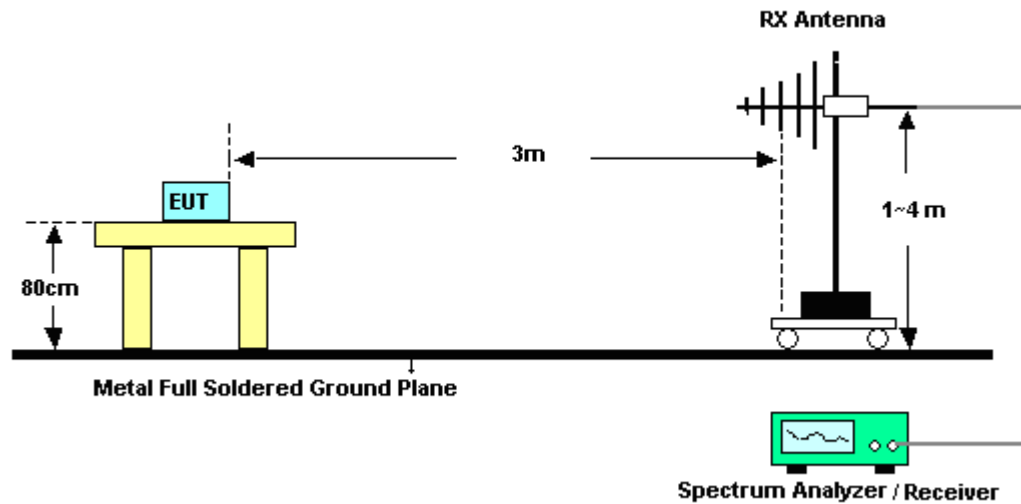
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 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 “-”.

3.5.4 Test Setup

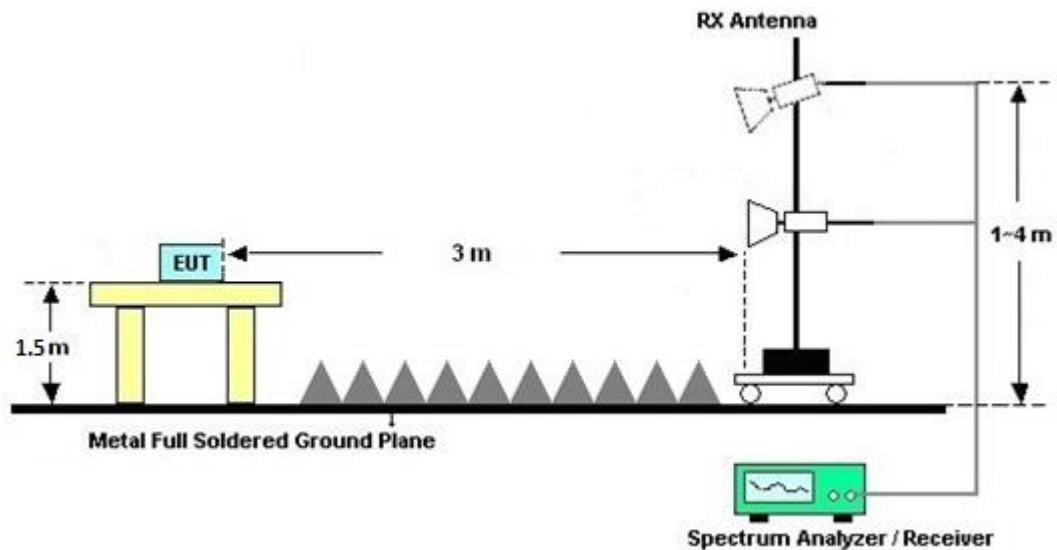
For radiated emissions below 30MHz



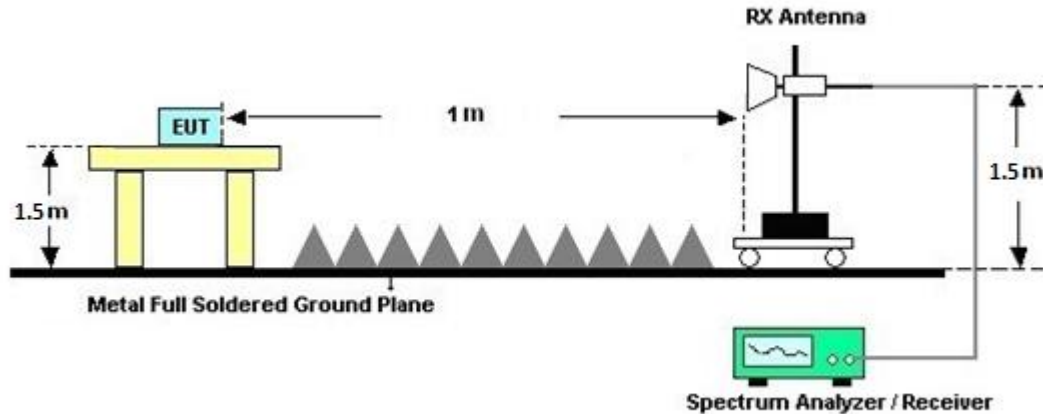
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.



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
Hygrometer	Testo	608-H1	45142602	N/A	Aug. 30, 2023	Oct. 02, 2023~ Oct. 11, 2023	Aug. 29, 2024	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101089	10Hz~40GHz	May 22, 2023	Oct. 02, 2023~ Oct. 11, 2023	May 21, 2024	Conducted (TH01-CA)
RF Switch Box	EM Electronics	EMSW18	SW1070902	N/A	Aug. 25, 2023	Oct. 02, 2023~ Oct. 11, 2023	Aug. 24, 2024	Conducted (TH01-CA)
Loop Antenna	R&S	HFH2-Z2E	100840	9kHz~30MHz	Jun. 29, 2023	Oct. 25, 2023~ Nov. 07, 2023	Jun. 28, 2024	Radiation (03CH02-CA)
Bilog Antenna	TESEQ	6111D	54683	30MHz~1GHz	Nov. 01, 2022	Oct. 25, 2023~ Nov. 07, 2023	Oct. 31, 2023	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02140	1GHz~18GHz	Jan. 09, 2023	Oct. 25, 2023~ Nov. 07, 2023	Jan. 08, 2024	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA9170	00841	18GHz~40GHz	Aug. 22, 2023	Oct. 25, 2023~ Nov. 07, 2023	Aug. 21, 2024	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	N/A	May 03, 2023	Oct. 25, 2023~ Nov. 07, 2023	May 02, 2024	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	May 04, 2023	Oct. 25, 2023~ Nov. 07, 2023	May 03, 2024	Radiation (03CH02-CA)
Preamplifier	E-instrument	ERA-100M-18 G-56-01-A70	EC1900252	1GHz~18GHz	May 23, 2023	Oct. 25, 2023~ Nov. 07, 2023	May 22, 2024	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	060725	18GHz~40GHz	May 04, 2023	Oct. 25, 2023~ Nov. 07, 2023	May 03, 2024	Radiation (03CH02-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	804209/2, 802406/2, 802875/2, 802952/2	N/A	Nov. 14, 2022	Oct. 25, 2023~ Nov. 07, 2023	Nov. 13, 2023	Radiation (03CH02-CA)
High Pass Filter	WOKEN	WFIL-H8000-2 5000F-01	WR32BNW2B 1	8G~25G	Jun. 05, 2023	Oct. 25, 2023~ Nov. 07, 2023	Jun. 04, 2024	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200-1 272-11000-40 SS	SN2	1.2GHz Low Pass Filter	Jun. 05, 2023	Oct. 25, 2023~ Nov. 07, 2023	Jun. 04, 2024	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug.30, 2023	Oct. 25, 2023~ Nov. 07, 2023	Aug. 29, 2024	Radiation (03CH02-CA)
Controller	ChainTek	EM-1000	060876	NA	N/A	Oct. 25, 2023~ Nov. 07, 2023	N/A	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Oct. 25, 2023~ Nov. 07, 2023	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Oct. 25, 2023~ Nov. 07, 2023	N/A	Radiation (03CH02-CA)
Software	Audix	E3	N/A	N/A	N/A	Oct. 25, 2023~ Nov. 07, 2023	N/A	Radiation (03CH02-CA)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
--	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Venkata Kondepudi	Temperature:	19.3~22.8	°C
Test Date:	2023/10/02~2023/10/11	Relative Humidity:	48.4~59.1	%

EIRP

UNII-5

BW	Mode	Carrier	Frequency (MHz)	Ant #	Power setting Atten	Power setting ADAK	Condcuted Power (dBm)	MIMO factor (dB)	Directional Gain (dBi)	Total Conducted power (dBm)	Total EIRP (dBm)	EIRP Limit (dBm)
40+40+40+40 Contiguous Mode	Mode 1	C0	5965	Ant 0 of 0-3	18	-1.5	11.95	6.02	14.90	20.97	35.87	36
		C2	6005	Ant 0 of 0-3		2.3			14.90			36
		C1	6045	Ant 4 of 4-7	18	-1.5	11.93	6.02	14.90			36
		C3	6085	Ant 4 of 4-7		0.2			14.90			36
	Mode 2	C0	6125	Ant 0 of 0-3	18	-1.5	11.92	6.02	14.90	20.96	35.86	36
		C2	6165	Ant 0 of 0-3		2			14.90			36
		C1	6205	Ant 4 of 4-7	18	-2.3	11.93	6.02	14.90			36
		C3	6245	Ant 4 of 4-7		0.6			14.90			36
	Mode 3	C0	6285	Ant 0 of 0-3	18	-1.5	11.92	6.02	14.90	20.96	35.86	36
		C2	6325	Ant 0 of 0-3		1.9			14.90			36
		C1	6365	Ant 4 of 4-7	18	-0.6	11.94	6.02	14.90			36
		C3	6405	Ant 4 of 4-7		1.1			14.90			36
40 + 40 + 40 + 40 Non-Contiguous Mode	Mode 4	C0	5965	Ant 0 of 0-3	18	-2.2	8.94	6.02	14.90	20.97	35.87	36
		C2	6085	Ant 0 of 0-3	18	2.3	8.90	6.02	14.90			36
		C1	6205	Ant 4 of 4-7	18	2.2	8.94	6.02	14.90			36
		C3	6405	Ant 4 of 4-7	18	1.2	8.92	6.02	14.90			36

Note:

Antenna Gain = 14.9dBi

The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna

Directional Gain (4H/4V) = 14.9dBi + 10log(Ntx = 4 / Nss = 4) = 14.9dBi

UNII-7

BW	Mode	Carrier	Frequency (MHz)	Ant #	Power setting Atten	Power setting ADAK	Condcuted Power (dBm)	MIMO factor (dB)	Directional Gain (dBi)	Total Conducted power (dBm)	Total EIRP (dBm)	EIRP Limit (dBm)
40+40+40+40 Contiguous Mode	Mode 1	C0	6545	Ant 0 of 0-3	18	-0.5	11.82	6.02	15.00	20.84	35.84	36
		C2	6585	Ant 0 of 0-3		4.4			15.00			36
		C1	6625	Ant 4 of 4-7	18	0.4	11.8	6.02	15.00			36
		C3	6665	Ant 4 of 4-7		1.2			15.00			36
	Mode 2	C0	6645	Ant 0 of 0-3	18	0.7	11.8	6.02	15.00	20.85	35.85	36
		C2	6685	Ant 0 of 0-3		5.8			15.00			36
		C1	6725	Ant 4 of 4-7	18	1.2	11.83	6.02	15.00			36
		C3	6765	Ant 4 of 4-7		2.4			15.00			36
	Mode 3	C0	6735	Ant 0 of 0-3	18	1.6	11.84	6.02	15.00	20.87	35.87	36
		C2	6775	Ant 0 of 0-3		6.7			15.00			36
		C1	6815	Ant 4 of 4-7	18	2.5	11.83	6.02	15.00			36
		C3	6855	Ant 4 of 4-7		3.3			15.00			36
40 + 40 + 40 + 40 Non-Contiguous Mode	Mode 4	C0	6545	Ant 0 of 0-3	18	-0.6	8.82	6.02	15.00	20.86	35.86	36
		C2	6645	Ant 0 of 0-3	18	5.9	8.83	6.02	15.00			36
		C1	6745	Ant 4 of 4-7	18	1.5	8.82	6.02	15.00			36
		C3	6855	Ant 4 of 4-7	18	3.8	8.8	6.02	15.00			36

Note:

Antenna Gain = 15.0dBi

The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna

Directional Gain (4H/4V) = 15.0dBi + 10log(Ntx = 4 / Nss = 4) = 15.0dBi

EIRP PSD

UNII-5

BW	Mode	Carrier	Frequency (MHz)	Power setting Atten	Power setting ADAK	Condcuted PSD (dBm/MHz)	MIMO factor (dB)	Directional Gain (dBi)	Total Conducted PSD (dBm/MHz)	Total EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
40+40+40+40 Contiguous Mode	Mode 1	C0	5965	18	-1.5	-5.5	6.02	14.90	0.73	15.63	23
		C2	6005		2.3			14.90			23
		C1	6045	18	-1.5	-5.29	6.02	14.90			23
		C3	6085		0.2			14.90			23
	Mode 2	C0	6125	18	-1.5	-5.45	6.02	14.90	0.57	15.47	23
		C2	6165		2			14.90			23
		C1	6205	18	-2.3	-5.51	6.02	14.90			23
		C3	6245		0.6			14.90			23
	Mode 3	C0	6285	18	-1.5	-5.61	6.02	14.90	0.43	15.33	23
		C2	6325		1.9			14.90			23
		C1	6365	18	-0.6	-5.59	6.02	14.90			23
		C3	6405		1.1			14.90			23
40 + 40 + 40 + 40 Non-Contiguous Mode	Mode 4	C0	5965	18	-2.2	-5.26	6.02	14.90	0.76	15.66	23
		C2	6085	18	2.3	-5.67	6.02	14.90			23
		C1	6205	18	2.2	-5.63	6.02	14.90			23
		C3	6405	18	1.2	-5.86	6.02	14.90			23

Note:

Antenna Gain = 14.9dBi

The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna

Directional Gain (4H/4V) = 14.9dBi + 10log(Ntx = 4 / Nss = 4) = 14.9dBi

UNII-7

BW	Mode	Carrier	Frequency (MHz)	Power setting Atten	Power setting ADAK	Condcuted PSD (dBm/MHz)	MIMO factor (dB)	Directional Gain (dBi)	Total Conducted PSD (dBm/MHz)	Total EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
40+40+40+40 Contiguous Mode	Mode 1	C0	6545	18	-0.5	-5.58	6.02	15.00	0.55	15.55	23
		C2	6585		4.4			15.00			23
		C1	6625	18	0.4	-5.47	6.02	15.00			23
		C3	6665		1.2			15.00			23
	Mode 2	C0	6645	18	0.7	-5.59	6.02	15.00	3.96	18.96	23
		C2	6685		5.8			15.00			23
		C1	6725	18	1.2	-2.06	6.02	15.00			23
		C3	6765		2.4			15.00			23
	Mode 3	C0	6735	18	1.6	-5.4	6.02	15.00	0.62	15.62	23
		C2	6775		6.7			15.00			23
		C1	6815	18	2.5	-2.34	6.02	15.00			23
		C3	6855		3.3			15.00			23
40 + 40 + 40 + 40 Non-Contiguous Mode	Mode 4	C0	6545	18	-0.6	-5.95	6.02	15.00	0.45	15.45	23
		C2	6645	18	5.9	-5.81	6.02	15.00			23
		C1	6745	18	1.5	-5.57	6.02	15.00			23
		C3	6855	18	3.8	-6.02	6.02	15.00			23

Note:

Antenna Gain = 15.0dBi

The device is driving cross-polarized antenna, which has 4 horizontal polarization antenna and 4 vertical polarization antenna

Directional Gain (4H/4V) = 15.0dBi + 10log(Ntx = 4 / Nss = 4) = 15.0dBi

Bandwidth

UNII-5

BW	Mode	Carrier	Frequency (MHz)	Power setting Atten	Power setting ADAK	26dB BW (MHz)	OBW (MHz)
40+40+40+40 Contiguous Mode	Mode 1	C0	5965	18	-1.5	79.92	76.60
		C2	6005		2.3		
		C1	6045	18	-1.5	79.76	76.60
		C3	6085		0.2		
	Mode 2	C0	6125	18	-1.5	79.76	76.60
		C2	6165		2		
		C1	6205	18	-2.3	79.76	76.60
		C3	6245		0.6		
	Mode 3	C0	6285	18	-1.5	79.76	76.60
		C2	6325		1.9		
		C1	6365	18	-0.6	79.76	76.60
		C3	6405		1.1		
40 + 40 + 40 + 40 Non-Contiguous Mode	Mode 4	C0	5965	18	-2.2	38.21	37.26
		C2	6085	18	2.3	38.16	37.26
		C1	6205	18	2.2	38.16	37.26
		C3	6405	18	1.2	38.19	37.26

UNII-7

BW	Mode	Carrier	Frequency (MHz)	Power setting Atten	Power setting ADAK	26dB BW (MHz)	OBW (MHz)
40+40+40+40 Contiguous Mode	Mode 1	C0	6545	18	-0.5	79.76	76.36
		C2	6585		4.4		
		C1	6625	18	0.4	79.68	76.36
		C3	6665		1.2		
	Mode 2	C0	6645	18	0.7	79.76	76.36
		C2	6685		5.8		
		C1	6725	18	1.2	79.68	76.48
		C3	6765		2.4		
	Mode 3	C0	6735	18	1.6	79.76	76.48
		C2	6775		6.7		
		C1	6815	18	2.5	79.68	76.36
		C3	6855		3.3		
40 + 40 + 40 + 40 Non-Contiguous Mode	Mode 4	C0	6545	18	-0.6	38.18	37.06
		C2	6645	18	5.9	38.18	37.16
		C1	6745	18	1.5	38.18	37.06
		C3	6855	18	3.8	38.18	37.16



Appendix B. Radiated Spurious Emission

Test Engineer :	Thinh Hoang	Temperature :	19.5 ~ 21.9°C
		Relative Humidity :	49.1 ~ 57.1%



UNII-5 - 5925~6425MHz

Multiple carrier_contiguous 40M+40M+40M+40M (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.	
16Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
Multiple carrier_ contiguous 40M+40M+ 40M+40M 5965 MHz +6005MHz +6045 MHz +6085 MHz		5884.91	66.1	-22.1	88.2	48.43	34.25	13.13	29.71	200	186	P	H
		5884.91	62.71	-5.49	68.2	45.04	34.25	13.13	29.71	200	186	A	H
	*	5965	111.9	-	-	94.23	34.22	13.21	29.76	200	186	P	H
	*	6005	110.19	-	-	92.52	34.21	13.26	29.8	200	186	P	H
	*	6045	110.9	-	-	93.23	34.21	13.31	29.85	200	186	P	H
	*	6085	111.27	-	-	93.58	34.23	13.36	29.9	200	186	P	H
		5802	60.91	-7.29	68.2	43.53	34.03	13.04	29.69	200	186	A	H
		5886	63.15	-5.05	68.2	45.47	34.26	13.13	29.71	200	186	A	H
	*	5965	102.13	-	-	84.46	34.22	13.21	29.76	200	186	A	H
	*	6005	100.76	-	-	83.09	34.21	13.26	29.8	200	186	A	H
	*	6045	105.67	-	-	88	34.21	13.31	29.85	200	186	A	H
	*	6085	101.5	-	-	83.81	34.23	13.36	29.9	200	186	A	H
		6124	63.09	-5.11	68.2	45.42	34.23	13.4	29.96	200	186	A	H
		6208	61.43	-6.77	68.2	43.8	34.25	13.51	30.13	200	186	A	H
		7398	52.68	-1.32	54	31.12	36.57	14.71	29.72	200	186	A	H
		5805	63.14	-25.06	88.2	45.74	34.04	13.05	29.69	200	158	P	V
		5805	60.05	-8.15	68.2	42.65	34.04	13.05	29.69	200	158	A	V
	*	5965	103.06	-	-	85.39	34.22	13.21	29.76	200	158	P	V
	*	6005	101.27	-	-	83.6	34.21	13.26	29.8	200	158	P	V
	*	6045	98.77	-	-	81.1	34.21	13.31	29.85	200	158	P	V
	*	6085	101.02	-	-	83.33	34.23	13.36	29.9	200	158	P	V
		5802	60.11	-8.09	68.2	42.73	34.03	13.04	29.69	200	158	A	V
		5844	56.24	-11.96	68.2	38.64	34.2	13.09	29.69	200	158	A	V
	*	5965	93.44	-	-	75.77	34.22	13.21	29.76	200	158	A	V



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M+ 40M+40M 5965 MHz +6005MHz +6045 MHz +6085 MHz	*	6005	94.68	-	-	77.01	34.21	13.26	29.8	200	158	A	V
	*	6045	95.15	-	-	77.48	34.21	13.31	29.85	200	158	A	V
	*	6085	91.11	-	-	73.42	34.23	13.36	29.9	200	158	A	V
		6124	55.93	-12.27	68.2	38.26	34.23	13.4	29.96	200	158	A	V
		6166	54.28	-13.92	68.2	36.63	34.23	13.46	30.04	200	158	A	V
		7384	52.61	-1.39	54	31.03	36.63	14.69	29.74	200	158	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M+ 40M+40M 6125 MHz +6165 MHz +6205 MHz +6245MHz	*	6125	110.26	-	-	92.58	34.23	13.41	29.96	200	194	P	H
	*	6165	111.97	-	-	94.31	34.23	13.46	30.03	200	194	P	H
	*	6205	109.41	-	-	91.77	34.25	13.51	30.12	200	194	P	H
	*	6245	111.26	-	-	93.59	34.32	13.56	30.21	200	194	P	H
		5963	62.5	-5.7	68.2	44.83	34.22	13.21	29.76	200	189	A	H
		6047	62.67	-5.53	68.2	45	34.21	13.31	29.85	200	189	A	H
	*	6125	100.36	-	-	82.68	34.23	13.41	29.96	200	189	A	H
	*	6165	101.98	-	-	84.32	34.23	13.46	30.03	200	189	A	H
	*	6205	104.51	-	-	86.87	34.25	13.51	30.12	200	189	A	H
	*	6245	101.42	-	-	83.75	34.32	13.56	30.21	200	189	A	H
		6362	61.41	-6.79	68.2	43.61	34.6	13.7	30.5	200	189	A	H
		7370	52.49	-1.51	54	30.89	36.69	14.67	29.76	200	189	A	H
	*	6125	106.41	-	-	88.73	34.23	13.41	29.96	200	170	P	V
	*	6165	104.13	-	-	86.47	34.23	13.46	30.03	200	170	P	V
	*	6205	97.52	-	-	79.88	34.25	13.51	30.12	200	170	P	V
	*	6245	100	-	-	82.33	34.32	13.56	30.21	200	170	P	V
		5963	60.33	-7.87	68.2	42.66	34.22	13.21	29.76	200	170	A	V
	*	6125	96.45	-	-	78.77	34.23	13.41	29.96	200	170	A	V
	*	6165	99.8	-	-	82.14	34.23	13.46	30.03	200	170	A	V
	*	6205	94.62	-	-	76.98	34.25	13.51	30.12	200	170	A	V
	*	6245	90.19	-	-	72.52	34.32	13.56	30.21	200	170	A	V
		7398	52.53	-1.47	54	30.97	36.57	14.71	29.72	200	170	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M+ 40M+40M 6285 MHz +6325 MHz +6365 MHz +6405 MHz	*	6285	106.51	-	-	88.8	34.43	13.61	30.33	200	193	P	H
	*	6325	111.34	-	-	93.58	34.53	13.66	30.43	200	193	P	H
	*	6365	109.23	-	-	91.41	34.61	13.71	30.5	200	193	P	H
	*	6405	111.17	-	-	93.27	34.7	13.75	30.55	200	193	P	H
		6124	63.63	-4.57	68.2	45.96	34.23	13.4	29.96	200	193	A	H
		6208	62.42	-5.78	68.2	44.79	34.25	13.51	30.13	200	193	A	H
	*	6285	99.25	-	-	81.54	34.43	13.61	30.33	200	193	A	H
	*	6325	101.34	-	-	83.58	34.53	13.66	30.43	200	193	A	H
	*	6365	102.43	-	-	84.61	34.61	13.71	30.5	200	193	A	H
	*	6405	101.22	-	-	83.32	34.7	13.75	30.55	200	193	A	H
		6446	57.85	-10.35	68.2	39.84	34.83	13.78	30.6	200	193	A	H
		6523	61.82	-6.38	68.2	43.54	35.16	13.83	30.71	200	193	A	H
		7377	52.7	-1.3	54	31.11	36.66	14.68	29.75	200	193	A	H
	*	6285	104.2	-	-	86.49	34.43	13.61	30.33	200	183	P	V
	*	6325	107.9	-	-	90.14	34.53	13.66	30.43	200	183	P	V
	*	6365	97.94	-	-	80.12	34.61	13.71	30.5	200	183	P	V
	*	6405	99.94	-	-	82.04	34.7	13.75	30.55	200	183	P	V
		6124	56.79	-11.41	68.2	39.12	34.23	13.4	29.96	200	183	A	V
		6208	55.42	-12.78	68.2	37.79	34.25	13.51	30.13	200	183	A	V
	*	6285	100.12	-	-	82.41	34.43	13.61	30.33	200	183	A	V
	*	6325	97.91	-	-	80.15	34.53	13.66	30.43	200	183	A	V
	*	6365	90.91	-	-	73.09	34.61	13.71	30.5	200	183	A	V
	*	6405	90.01	-	-	72.11	34.7	13.75	30.55	200	183	A	V
		6446	61.44	-6.76	68.2	43.43	34.83	13.78	30.6	200	183	A	V
		6488	54.61	-13.59	68.2	36.48	34.98	13.81	30.66	200	183	A	V
		7391	52.46	-1.54	54	30.89	36.6	14.7	29.73	200	183	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-5 - 5925~6425MHz

Multiple carrier_contiguous 40M+40M+40M+40M (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
16Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
Multiple carrier_ contiguous 40M+40M +40M+40M 5965 MHz +6005 MHz +6045 MHz +6085 MHz		11930	46.64	-27.36	74	55.54	38.77	18.98	66.65	-	-	P	H
		12010	47.43	-26.57	74	55.83	38.96	19.04	66.4	-	-	P	H
		12090	47.4	-26.6	74	55.45	39.19	19.11	66.35	-	-	P	H
		12170	47.88	-26.12	74	55.77	39.27	19.17	66.33	-	-	A	H
		17895	53.44	-20.56	74	56.58	42.65	23.74	69.53	-	-	P	H
		17895	43.31	-10.69	54	46.45	42.65	23.74	69.53	-	-	A	H
		18015	35.61	-38.39	74	37.49	37.72	14.14	53.74	-	-	P	H
		18135	35.43	-38.57	74	38.16	37.85	14.2	54.78	-	-	P	H
		18255	35.74	-38.26	74	38.61	37.92	14.25	55.04	-	-	P	H
		11930	46.64	-27.36	74	55.54	38.77	18.98	66.65	-	-	P	H
		12010	47.49	-26.51	74	55.89	38.96	19.04	66.4	-	-	P	V
		12090	48.41	-25.59	74	56.46	39.19	19.11	66.35	-	-	P	V
		12090	38.08	-15.92	54	46.13	39.19	19.11	66.35	-	-	A	V
		12170	47.96	-26.04	74	55.85	39.27	19.17	66.33	-	-	P	V
		17895	53.22	-20.78	74	56.36	42.65	23.74	69.53	-	-	P	V
		17895	43.31	-10.69	54	46.45	42.65	23.74	69.53	-	-	A	V
		18015	36.19	-37.81	74	37.92	37.87	14.14	53.74	-	-	P	V
		18135	34.32	-39.68	74	36.94	37.96	14.2	54.78	-	-	P	V
		18255	34.52	-39.48	74	37.29	38.02	14.25	55.04	-	-	P	V



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M +40M+40M 6125 MHz +6165 MHz +6205 MHz +6245 MHz		12250	47.95	-26.05	74	55.93	39.22	19.24	66.44	-	-	P	H
		12330	46.41	-27.59	74	54.67	39.05	19.32	66.63	-	-	P	H
		12410	47.33	-26.67	74	55.72	38.95	19.38	66.72	-	-	P	H
		12490	47.5	-26.5	74	55.65	38.96	19.45	66.56	-	-	P	H
		18375	36.43	-37.57	74	38.69	37.96	14.31	54.53	-	-	P	H
		18495	34.97	-39.03	74	36.32	38.06	14.37	53.78	-	-	P	H
		18615	36.66	-37.34	74	37.39	38.08	14.43	53.24	-	-	P	H
		18735	37.69	-36.31	74	37.98	38.12	14.49	52.9	-	-	P	H
		12250	48.3	-25.7	74	56.28	39.22	19.24	66.44	-	-	P	V
		12250	38.44	-15.56	54	46.42	39.22	19.24	66.44	-	-	A	V
		12330	47	-27	74	55.26	39.05	19.32	66.63	-	-	P	V
		12410	47.61	-26.39	74	56	38.95	19.38	66.72	-	-	P	V
		12490	46.69	-27.31	74	54.84	38.96	19.45	66.56	-	-	P	V
		18375	36.27	-37.73	74	38.47	38.02	14.31	54.53	-	-	P	V
		18495	36.59	-37.41	74	37.82	38.18	14.37	53.78	-	-	P	V
		18615	37.1	-36.9	74	37.7	38.21	14.43	53.24	-	-	P	V
		18735	37.82	-36.18	74	38.06	38.17	14.49	52.9	-	-	P	V



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M +40M+40M 6285 MHz +6325 MHz +6365 MHz +6405 MHz		12570	47.83	-26.17	74	55.57	39.06	19.52	66.32	-	-	P	H
		12650	47.87	-26.13	74	55.35	39.18	19.59	66.25	-	-	P	H
		12730	47.81	-40.39	88.2	55.32	39.31	19.65	66.47	-	-	P	H
		12810	48.01	-40.19	88.2	55.63	39.5	19.73	66.85	-	-	P	H
		18855	37.62	-36.38	74	37.81	38.15	14.55	52.89	-	-	P	H
		18975	37.08	-36.92	74	37.72	38.09	14.61	53.34	-	-	P	H
		19095	35.49	-38.51	74	36.77	38.04	14.67	53.99	-	-	P	H
		19217.52	36.42	-37.58	74	37.7	38.02	14.73	54.03	-	-	P	H
		12570	47.66	-26.34	74	55.4	39.06	19.52	66.32	-	-	P	V
		12650	48.92	-25.08	74	56.4	39.18	19.59	66.25	-	-	P	V
		12650	38.61	-15.39	54	46.09	39.18	19.59	66.25	-	-	A	V
		12730	47.97	-40.23	88.2	55.48	39.31	19.65	66.47	-	-	P	V
		12810	48.43	-39.77	88.2	56.05	39.5	19.73	66.85	-	-	P	V
		18855	38.08	-35.92	74	38.21	38.21	14.55	52.89	-	-	P	V
		18975	36.07	-37.93	74	36.65	38.15	14.61	53.34	-	-	P	V
		19095	35.94	-38.06	74	37.08	38.18	14.67	53.99	-	-	P	V
		19215	36.09	-37.91	74	37.33	38.07	14.73	54.04	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



UNII-5 - 5925~6425MHz

Multiple Non-carrier_contiguous 40M+40M+40M+40M (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.	
16Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
Multiple carrier_ Non-contiguous 40M+40M+ 40M+40M 5965 MHz +6085 MHz +6205 MHz +6405 MHz		5870.34	62.93	-25.27	88.2	45.28	34.24	13.11	29.7	200	181	P	H
		5925	53.22	-14.98	68.2	35.54	34.25	13.17	29.74	200	181	A	H
	*	5965	112.25	-	-	94.58	34.22	13.21	29.76	200	181	P	H
	*	6085	107.55	-	-	89.86	34.23	13.36	29.9	200	181	P	H
	*	6205	114.77	-	-	97.13	34.25	13.51	30.12	200	181	P	H
	*	6405	108.08	-	-	90.18	34.7	13.75	30.55	200	181	P	H
		5725	64.02	-4.18	68.2	47.14	33.61	12.97	29.7	200	181	A	H
	*	5965	102.11	-	-	84.44	34.22	13.21	29.76	200	181	A	H
	*	6085	97.65	-	-	79.96	34.23	13.36	29.9	200	181	A	H
	*	6205	105	-	-	87.36	34.25	13.51	30.12	200	181	A	H
	*	6405	98.18	-	-	80.28	34.7	13.75	30.55	200	181	A	H
		6446	60.57	-7.63	68.2	42.56	34.83	13.78	30.6	200	181	A	H
		6684	63.95	-4.25	68.2	44.87	36	13.96	30.88	200	181	A	H
		7412	52.65	-1.35	54	31.14	36.52	14.72	29.73	200	181	A	H
		5909.28	59.39	-28.81	88.2	41.71	34.26	13.15	29.73	200	187	P	V
		5845.26	49.53	-18.67	68.2	31.93	34.2	13.09	29.69	200	187	A	V
	*	5965	105.43	-	-	87.76	34.22	13.21	29.76	200	187	P	V
	*	6085	106.62	-	-	88.93	34.23	13.36	29.9	200	187	P	V
	*	6205	99.41	-	-	81.77	34.25	13.51	30.12	200	187	P	V
	*	6405	98.87	-	-	80.97	34.7	13.75	30.55	200	187	P	V
		5487	49.93	-18.27	68.2	33.86	33.06	12.71	29.7	200	187	A	V
		5725	52	-16.2	68.2	35.12	33.61	12.97	29.7	200	187	A	V
	*	5965	98.89	-	-	81.22	34.22	13.21	29.76	200	187	A	V



WIFI Ant. 16Tx	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)
Multiple carrier_ Non-contiguous 40M+40M+ 40M+40M 5965 MHz +6085 MHz +6205 MHz +6405 MHz	*	6085	96.75	-	-	79.06	34.23	13.36	29.9	200	187	A	V
	*	6205	92.84	-	-	75.2	34.25	13.51	30.12	200	187	A	V
	*	6405	89.09	-	-	71.19	34.7	13.75	30.55	200	187	A	V
		6446	61.86	-6.34	68.2	43.85	34.83	13.78	30.6	200	187	A	V
		6726	55.01	-13.19	68.2	35.84	36.06	14.01	30.9	200	187	A	V
		7419	52.65	-1.35	54	31.17	36.49	14.73	29.74	200	187	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-5 - 5925~6425MHz

Multiple Non-carrier_contiguous 40M+40M+40M+40M (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
16Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
Multiple carrier_ Non-contiguous 40M+40M +40M+40M 5965 MHz +6085 MHz +6205 MHz +6405 MHz		11930	46.66	-27.34	74	55.56	38.77	18.98	66.65	-	-	P	H
		12170	47.69	-26.31	74	55.58	39.27	19.17	66.33	-	-	P	H
		12410	47.09	-26.91	74	55.48	38.95	19.38	66.72	-	-	P	H
		12810	47.94	-40.26	88.2	55.56	39.5	19.73	66.85	-	-	P	H
		17895	53.91	-20.09	74	57.05	42.65	23.74	69.53	-	-	P	H
		17895	43.47	-10.53	54	46.61	42.65	23.74	69.53	-	-	A	H
		18255	33.5	-40.5	74	36.37	37.92	14.25	55.04	-	-	P	H
		18615	36.19	-37.81	74	36.92	38.08	14.43	53.24	-	-	P	H
		19215	35.37	-38.63	74	36.66	38.02	14.73	54.04	-	-	P	H
		11930	47.11	-26.89	74	56.01	38.77	18.98	66.65	-	-	P	V
		12170	48.12	-25.88	74	56.01	39.27	19.17	66.33	-	-	P	V
		12170	38.21	-15.79	54	46.1	39.27	19.17	66.33	-	-	A	V
		12410	46.96	-27.04	74	55.35	38.95	19.38	66.72	-	-	P	V
		12810	48.54	-39.66	88.2	56.16	39.5	19.73	66.85	-	-	P	V
		17895	53.72	-20.28	74	56.86	42.65	23.74	69.53	-	-	P	V
		17895	43.38	-10.62	54	46.52	42.65	23.74	69.53	-	-	A	V
		18255	33.69	-40.31	74	36.46	38.02	14.25	55.04	-	-	P	V
		18615	35.8	-38.2	74	36.4	38.21	14.43	53.24	-	-	P	V
		19215	35.59	-38.41	74	36.83	38.07	14.73	54.04	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



UNII 7 - 6525~6875MHz

Multiple carrier_contiguous 40M+40M+40M+40M (Band Edge @ 3m)

WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M +40M+40M 6445 MHz +6585 MHz +6625 MHz +6665 MHz	*	6545	105.73	-	-	87.33	35.3	13.84	30.74	178	191	P	H
	*	6585	111.95	-	-	93.25	35.62	13.87	30.79	178	191	P	H
	*	6625	110.23	-	-	91.3	35.86	13.9	30.83	178	191	P	H
	*	6665	110.94	-	-	91.88	35.99	13.94	30.87	178	191	P	H
		6383	61.46	-6.74	68.2	43.6	34.65	13.73	30.52	178	191	A	H
		6467	63.78	-4.42	68.2	45.72	34.9	13.79	30.63	178	191	A	H
	*	6545	99.56	-	-	81.16	35.3	13.84	30.74	178	191	A	H
	*	6585	102.41	-	-	83.71	35.62	13.87	30.79	178	191	A	H
	*	6625	100.25	-	-	81.32	35.86	13.9	30.83	178	191	A	H
	*	6665	100.92	-	-	81.86	35.99	13.94	30.87	178	191	A	H
		6705	57.89	-10.31	68.2	38.77	36.03	13.98	30.89	178	191	A	H
		6782	62.81	-5.39	68.2	43.64	36.06	14.06	30.95	178	191	A	H
		6824	56.78	-11.42	68.2	37.69	35.99	14.11	31.01	178	191	A	H
		7398	52.68	-1.32	54	31.12	36.57	14.71	29.72	178	191	A	H
	*	6545	106.72	-	-	88.32	35.3	13.84	30.74	182	179	P	V
	*	6585	109.77	-	-	91.07	35.62	13.87	30.79	182	179	P	V
	*	6625	99.97	-	-	81.04	35.86	13.9	30.83	182	179	P	V
	*	6665	100.41	-	-	81.35	35.99	13.94	30.87	182	179	P	V



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M +40M+40M 6445 MHz +6585 MHz +6625 MHz +6665 MHz		6383	61.18	-7.02	68.2	43.32	34.65	13.73	30.52	182	179	A	V
		6425	56.88	-11.32	68.2	38.93	34.76	13.77	30.58	182	179	A	V
		6467	55.98	-12.22	68.2	37.92	34.9	13.79	30.63	182	179	A	V
	*	6545	99.67	-	-	81.27	35.3	13.84	30.74	182	179	A	V
	*	6585	99.77	-	-	81.07	35.62	13.87	30.79	182	179	A	V
	*	6625	91.38	-	-	72.45	35.86	13.9	30.83	182	179	A	V
	*	6665	90.47	-	-	71.41	35.99	13.94	30.87	182	179	A	V
		6705	60.28	-7.92	68.2	41.16	36.03	13.98	30.89	182	179	A	V
		6747	54.76	-13.44	68.2	35.53	36.1	14.03	30.9	182	179	A	V
		7370	52.53	-1.47	54	30.93	36.69	14.67	29.76	182	179	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M +40M+40M 6645 MHz +6685 MHz +6725 MHz +6765 MHz	*	6645	107.73	-	-	88.7	35.95	13.93	30.85	185	188	P	H
	*	6685	112.88	-	-	93.78	36.01	13.97	30.88	185	188	P	H
	*	6725	110.44	-	-	91.27	36.06	14.01	30.9	185	188	P	H
	*	6765	111.26	-	-	92.05	36.08	14.05	30.92	185	188	P	H
		6488	60.75	-7.45	68.2	42.62	34.98	13.81	30.66	185	188	A	H
		6565	65.53	-2.67	68.2	46.99	35.45	13.86	30.77	185	188	A	H
	*	6645	100.18	-	-	81.15	35.95	13.93	30.85	185	188	A	H
	*	6685	103.09	-	-	83.99	36.01	13.97	30.88	185	188	A	H
	*	6725	100.49	-	-	81.32	36.06	14.01	30.9	185	188	A	H
	*	6765	101.29	-	-	82.08	36.08	14.05	30.92	185	188	A	H
		6887	62.32	-5.88	68.2	43.33	35.84	14.18	31.03	185	188	A	H
		6922	56.77	-11.43	68.2	37.76	35.8	14.22	31.01	185	188	A	H
		7370	52.55	-1.45	54	30.95	36.69	14.67	29.76	185	188	A	H
	*	6645	106.49	-	-	87.46	35.95	13.93	30.85	176	179	P	V
	*	6685	109.61	-	-	90.51	36.01	13.97	30.88	176	179	P	V
	*	6725	101.13	-	-	81.96	36.06	14.01	30.9	176	179	P	V
	*	6765	101.14	-	-	81.93	36.08	14.05	30.92	176	179	P	V
		6488	61.74	-6.46	68.2	43.61	34.98	13.81	30.66	176	179	A	V
		6523	55.41	-12.79	68.2	37.13	35.16	13.83	30.71	176	179	A	V
		6565	54.66	-13.54	68.2	36.12	35.45	13.86	30.77	176	179	A	V
	*	6645	99.47	-	-	80.44	35.95	13.93	30.85	176	179	A	V
	*	6685	99.66	-	-	80.56	36.01	13.97	30.88	176	179	A	V
	*	6725	91.92	-	-	72.75	36.06	14.01	30.9	176	179	A	V
	*	6765	91.65	-	-	72.44	36.08	14.05	30.92	176	179	A	V
		6803	61.1	-7.1	68.2	41.98	36.02	14.08	30.98	176	179	A	V
		6845	55.35	-12.85	68.2	36.31	35.95	14.13	31.04	176	179	A	V
		7398	52.7	-1.3	54	31.14	36.57	14.71	29.72	176	179	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M +40M+40M 6735 MHz +6775 MHz +6815 MHz +6855 MHz	*	6735	109.9	-	-	90.7	36.08	14.02	30.9	188	182	P	H
	*	6775	112.83	-	-	93.65	36.06	14.06	30.94	188	182	P	H
	*	6815	108.65	-	-	89.54	36	14.1	30.99	188	182	P	H
	*	6855	109.19	-	-	90.16	35.93	14.14	31.04	188	182	P	H
		6572	61.05	-7.15	68.2	42.46	35.51	13.86	30.78	188	182	A	H
		6656	64.95	-3.25	68.2	45.89	35.98	13.94	30.86	188	182	A	H
		6698	58.63	-9.57	68.2	39.52	36.02	13.98	30.89	188	182	A	H
	*	6735	100.51	-	-	81.31	36.08	14.02	30.9	188	182	A	H
	*	6775	102.78	-	-	83.6	36.06	14.06	30.94	188	182	A	H
	*	6815	99.1	-	-	79.99	36	14.1	30.99	188	182	A	H
	*	6855	99.18	-	-	80.15	35.93	14.14	31.04	188	182	A	H
		6978	60.7	-7.5	68.2	41.5	35.89	14.28	30.97	188	182	A	H
		7384	52.62	-1.38	54	31.04	36.63	14.69	29.74	188	182	A	H
		7203.96	59.98	-28.22	88.2	38.89	36.9	14.47	30.28	188	182	P	H
		7239.34	51.08	-17.12	68.2	29.68	37.03	14.52	30.15	188	182	A	H
	*	6735	107.24	-	-	88.04	36.08	14.02	30.9	180	173	P	V
	*	6775	110.23	-	-	91.05	36.06	14.06	30.94	180	173	P	V
	*	6815	102.47	-	-	83.36	36	14.1	30.99	180	173	P	V
	*	6855	101.91	-	-	82.88	35.93	14.14	31.04	180	173	P	V



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M +40M+40M 6735 MHz +6775 MHz +6815 MHz +6855 MHz		6572	60.44	-7.76	68.2	41.85	35.51	13.86	30.78	180	173	A	V
		6614	54.92	-13.28	68.2	36.05	35.8	13.89	30.82	180	173	A	V
		6656	53.95	-14.25	68.2	34.89	35.98	13.94	30.86	180	173	A	V
	*	6735	98.47	-	-	79.27	36.08	14.02	30.9	180	173	A	V
	*	6775	100.28	-	-	81.1	36.06	14.06	30.94	180	173	A	V
	*	6815	92.19	-	-	73.08	36	14.1	30.99	180	173	A	V
	*	6855	91.98	-	-	72.95	35.93	14.14	31.04	180	173	A	V
		6894	60.41	-7.79	68.2	41.42	35.83	14.19	31.03	180	173	A	V
		6936	55.88	-12.32	68.2	36.84	35.8	14.24	31	180	173	A	V
		6978	52.58	-15.62	68.2	33.38	35.89	14.28	30.97	180	173	A	V
		7398	52.64	-1.36	54	31.08	36.57	14.71	29.72	180	173	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 7 - 6525~6875MHz

Multiple carrier_contiguous 40M+40M+40M+40M (Harmonic @ 3m)

WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M +40M+40M 6545 MHz +6585 MHz +6625 MHz +6665MHz		13090	48.8	-39.4	88.2	56.07	39.74	19.97	66.98	-	-	P	H
		13170	48.38	-39.82	88.2	55.83	39.8	20.03	67.28	-	-	P	H
		13250	48.4	-25.6	74	55.86	39.96	20.11	67.53	-	-	P	H
		13250	39.03	-14.97	54	46.49	39.96	20.11	67.53	-	-	A	H
		13330	50.44	-23.56	74	57.49	40.1	20.18	67.33	-	-	P	H
		13330	39.46	-14.54	54	46.51	40.1	20.18	67.33	-	-	A	H
		19635	38.63	-35.37	74	37.45	37.97	14.93	51.72	-	-	P	H
		19755	38.81	-35.19	74	37.37	37.96	14.99	51.51	-	-	P	H
		19875	37.33	-36.67	74	35.68	37.98	15.05	51.38	-	-	P	H
		19995	36	-38	74	34.7	37.99	15.11	51.8	-	-	P	H
		13090	48.24	-39.96	88.2	55.51	39.74	19.97	66.98	-	-	P	V
		13170	49.14	-39.06	88.2	56.59	39.8	20.03	67.28	-	-	P	V
		13250	48.72	-25.28	74	56.18	39.96	20.11	67.53	-	-	P	V
		13250	39.08	-14.92	54	46.54	39.96	20.11	67.53	-	-	A	V
		13330	49.15	-24.85	74	56.2	40.1	20.18	67.33	-	-	P	V
		13330	39.47	-14.53	54	46.52	40.1	20.18	67.33	-	-	A	V
		19635	37.37	-36.63	74	36.11	38.05	14.93	51.72	-	-	P	V
		19755	38.23	-35.77	74	36.68	38.07	14.99	51.51	-	-	P	V
		19875	36.88	-37.12	74	35.12	38.09	15.05	51.38	-	-	P	V
		19995	37.22	-36.78	74	35.82	38.09	15.11	51.8	-	-	P	V



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M +40M+40M 6645 MHz +6685 MHz +6725 MHz +6765 MHz		13290	48.87	-25.13	74	56.18	40.03	20.14	67.48	-	-	P	H
		13290	39.07	-14.93	54	46.38	40.03	20.14	67.48	-	-	A	H
		13370	49.97	-24.03	74	56.65	40.21	20.21	67.1	-	-	P	H
		13370	39.59	-14.41	54	46.27	40.21	20.21	67.1	-	-	A	H
		13450	49.82	-38.38	88.2	55.6	40.55	20.28	66.61	-	-	P	H
		13530	51.4	-36.8	88.2	56.85	40.74	20.35	66.54	-	-	P	H
		19935	36.32	-37.68	74	34.77	37.99	15.08	51.52	-	-	P	H
		20055	37.86	-36.14	74	36.44	38.05	15.16	51.79	-	-	P	H
		20175	37.64	-36.36	74	36.32	38.1	15.27	52.05	-	-	P	H
		20295	37.65	-36.35	74	35.81	38.17	15.38	51.71	-	-	P	H
		13290	48.1	-25.9	74	55.41	40.03	20.14	67.48	-	-	P	V
		13290	39.1	-14.9	54	46.41	40.03	20.14	67.48	-	-	A	V
		13370	49.33	-24.67	74	56.01	40.21	20.21	67.1	-	-	P	V
		13370	39.62	-14.38	54	46.3	40.21	20.21	67.1	-	-	A	V
		13450	49.06	-39.14	88.2	54.84	40.55	20.28	66.61	-	-	P	V
		13530	50.15	-38.05	88.2	55.6	40.74	20.35	66.54	-	-	P	V
		19935	36.37	-37.63	74	34.72	38.09	15.08	51.52	-	-	P	V
		20055	36.91	-37.09	74	35.41	38.13	15.16	51.79	-	-	P	V
		20175	38.1	-35.9	74	36.78	38.1	15.27	52.05	-	-	P	V
		20295	37.19	-36.81	74	35.47	38.05	15.38	51.71	-	-	P	V



WIFI Ant. 16Tx	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)
Multiple carrier_ contiguous 40M+40M +40M+40M 6735 MHz +6775 MHz +6815 MHz +6855 MHz		13470	49.2	-39	88.2	54.88	40.6	20.29	66.57	-	-	P	H
		13550	51.12	-37.08	88.2	56.53	40.78	20.36	66.55	-	-	P	H
		13630	49.97	-38.23	88.2	55.95	40.73	20.43	67.14	-	-	P	H
		13710	49.71	-38.49	88.2	55.8	40.7	20.5	67.29	-	-	P	H
		20205	37.88	-36.12	74	36.6	38.1	15.3	52.12	-	-	P	H
		20325	37.87	-36.13	74	35.89	38.18	15.41	51.61	-	-	P	H
		20445	37.32	-36.68	74	34.52	38.21	15.52	50.93	-	-	P	H
		20565	38.59	-35.41	74	34.93	38.26	15.63	50.23	-	-	P	H
		13470	49.71	-38.49	88.2	55.39	40.6	20.29	66.57	-	-	P	V
		13550	50.32	-37.88	88.2	55.73	40.78	20.36	66.55	-	-	P	V
		13630	49.55	-38.65	88.2	55.53	40.73	20.43	67.14	-	-	P	V
		13710	49.42	-38.78	88.2	55.51	40.7	20.5	67.29	-	-	P	V
		20205	37.18	-36.82	74	35.92	38.08	15.3	52.12	-	-	P	V
		20325	36.81	-37.19	74	34.93	38.08	15.41	51.61	-	-	P	V
		20445	38.21	-35.79	74	35.45	38.17	15.52	50.93	-	-	P	V
		20565	39.55	-34.45	74	35.96	38.19	15.63	50.23	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



UNII 7 - 6525~6875MHz

Multiple carrier_non-contiguous 40M+40M+40M+40M (Band Edge @ 3m)

WIFI Ant. 16Tx	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)
Multiple carrier_non- contiguous 40M+40M +40M+40M 6545 MHz +6645 MHz +6745 MHz +6855 MHz		5906.01	60.01	-28.19	88.2	42.32	34.26	13.15	29.72	174	216	P	H
		5805	51.05	-17.15	68.2	33.65	34.04	13.05	29.69	174	216	A	H
	*	6545	105.04	-	-	86.64	35.3	13.84	30.74	174	216	P	H
	*	6645	93.27	-	-	74.24	35.95	13.93	30.85	174	216	P	H
	*	6745	101.9	-	-	82.69	36.09	14.02	30.9	174	216	P	H
	*	6855	102.28	-	-	83.25	35.93	14.14	31.04	174	216	P	H
		6145	60.95	-7.25	68.2	43.29	34.22	13.43	29.99	174	216	A	H
		6222	54.88	-13.32	68.2	37.23	34.28	13.53	30.16	174	216	A	H
		6348	64.44	-3.76	68.2	46.65	34.58	13.69	30.48	174	216	A	H
		6432	55.79	-12.41	68.2	37.82	34.78	13.77	30.58	174	216	A	H
	*	6545	95.14	-	-	76.74	35.3	13.84	30.74	174	216	A	H
	*	6645	89.99	-	-	70.96	35.95	13.93	30.85	174	216	A	H
	*	6745	97.7	-	-	78.49	36.09	14.02	30.9	174	216	A	H
	*	6855	92.21	-	-	73.18	35.93	14.14	31.04	174	216	A	H
		6943	55.09	-13.11	68.2	36.06	35.79	14.24	31	174	216	A	H
		7146	56.68	-11.52	68.2	36.12	36.62	14.43	30.49	174	216	A	H
		7398	52.51	-1.49	54	30.95	36.57	14.71	29.72	174	216	A	H
		7162.16	61.36	-26.84	88.2	40.65	36.7	14.44	30.43	174	216	P	H
		7144.68	56.59	-11.61	68.2	36.05	36.61	14.43	30.5	174	216	A	H
		5893.8	59.08	-29.12	88.2	41.4	34.26	13.14	29.72	172	178	P	V
		5805	48.93	-19.27	68.2	31.53	34.04	13.05	29.69	172	178	A	V
	*	6545	106.43	-	-	88.03	35.3	13.84	30.74	172	178	P	V
	*	6645	110.56	-	-	91.53	35.95	13.93	30.85	172	178	P	V
	*	6745	101.61	-	-	82.4	36.09	14.02	30.9	172	178	P	V
	*	6855	102.12	-	-	83.09	35.93	14.14	31.04	172	178	P	V



WIFI Ant. 16Tx	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)
		6145	60.65	-7.55	68.2	42.99	34.22	13.43	29.99	172	178	A	V
		6222	57.39	-10.81	68.2	39.74	34.28	13.53	30.16	172	178	A	V
		6348	57.01	-11.19	68.2	39.22	34.58	13.69	30.48	172	178	A	V
	*	6545	99.43	-	-	81.03	35.3	13.84	30.74	172	178	A	V
	*	6645	100.53	-	-	81.5	35.95	13.93	30.85	172	178	A	V
	*	6745	92.33	-	-	73.12	36.09	14.02	30.9	172	178	A	V
	*	6855	92.35	-	-	73.32	35.93	14.14	31.04	172	178	A	V
		6943	60.7	-7.5	68.2	41.67	35.79	14.24	31	172	178	A	V
		7062	53.96	-14.24	68.2	34.18	36.18	14.36	30.76	172	178	A	V
		7412	52.6	-1.4	54	31.09	36.52	14.72	29.73	172	178	A	V
		7212.32	60.96	-27.24	88.2	39.8	36.93	14.48	30.25	172	178	P	V
		7244.24	51.2	-17	68.2	29.76	37.05	14.52	30.13	172	178	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 7 - 6525~6875MHz

Multiple carrier_non-contiguous 40M+40M+40M+40M (Harmonic @ 3m)

WIFI Ant. 16Tx	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)
Multiple carrier_non- contiguous 40M+40M +40M+40M 6545 MHz +6645 MHz +6745 MHz +6855 MHz		13090	48.82	-39.38	88.2	56.09	39.74	19.97	66.98	-	-	P	H
		13290	49.6	-24.4	74	56.91	40.03	20.14	67.48	-	-	P	H
		13290	39.08	-14.92	54	46.39	40.03	20.14	67.48	-	-	A	H
		13490	50.62	-37.58	88.2	56.2	40.65	20.31	66.54	-	-	P	H
		13710	50.65	-37.55	88.2	56.74	40.7	20.5	67.29	-	-	P	H
		19635	38.74	-35.26	74	37.56	37.97	14.93	51.72	-	-	P	H
		19935	36.76	-37.24	74	35.21	37.99	15.08	51.52	-	-	P	H
		20235	37.55	-36.45	74	36.07	38.13	15.33	51.98	-	-	P	H
		20565	38.85	-35.15	74	35.19	38.26	15.63	50.23	-	-	P	H
		13090	49.02	-39.18	88.2	56.29	39.74	19.97	66.98	-	-	P	V
		13290	49.12	-24.88	74	56.43	40.03	20.14	67.48	-	-	P	V
		13490	51.32	-36.88	88.2	56.9	40.65	20.31	66.54	-	-	P	V
		13490	40.83	-27.37	68.2	46.41	40.65	20.31	66.54	-	-	A	V
		13710	49.88	-38.32	88.2	55.97	40.7	20.5	67.29	-	-	P	V
		19635	37.53	-36.47	74	36.27	38.05	14.93	51.72	-	-	P	V
		19935	37.79	-36.21	74	36.14	38.09	15.08	51.52	-	-	P	V
		20235	37.66	-36.34	74	36.24	38.07	15.33	51.98	-	-	P	V
		20565	38.59	-35.41	74	35	38.19	15.63	50.23	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												


Emission below 1GHz
(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.	
16Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
LF		129.91	29.49	-14.01	43.5	42.27	17.7	1.91	32.46	-	-	P	H
		283.17	35.95	-10.05	46	46.6	18.8	2.84	32.42	-	-	P	H
		581.93	38.26	-7.74	46	40.68	25.88	4.04	32.51	-	-	P	H
		741.98	41.59	-4.41	46	40.9	28.04	4.57	32.33	129	340	Q	H
		761.38	41.19	-4.81	46	39.95	28.4	4.63	32.2	-	-	P	H
		940.83	36.31	-9.69	46	31.45	30.53	5.15	31.17	-	-	P	H
													H
													H
		115.36	31.04	-12.46	43.5	44.3	17.32	1.81	32.47	-	-	P	V
		221.09	33.73	-12.27	46	48.3	15.31	2.51	32.48	-	-	P	V
		581.93	40.6	-5.4	46	43.02	25.88	4.04	32.51	-	-	P	V
		741.98	44.19	-1.81	46	43.5	28.04	4.57	32.33	135	10	Q	V
		761.38	42.5	-3.5	46	41.26	28.4	4.63	32.2	-	-	P	V
		940.83	38.7	-7.3	46	33.84	30.53	5.15	31.17	-	-	P	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 noise floor only.												



Note symbol

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

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
16Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5925	55.45	-32.75	88.2	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
5955MHz		5925	43.54	-24.66	68.2	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 5925MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -32.75(dB)

For Average Limit @ 5925MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -24.66(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Thinh Hoang	Temperature :	19.5 ~ 21.9°C
		Relative Humidity :	49.1 ~ 57.1%

Note symbol

-L	Low channel location
-R	High channel location

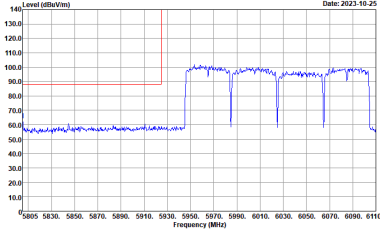
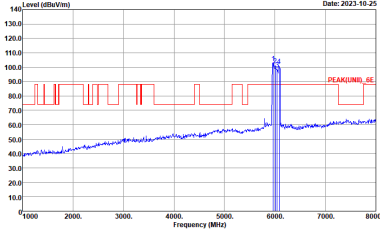
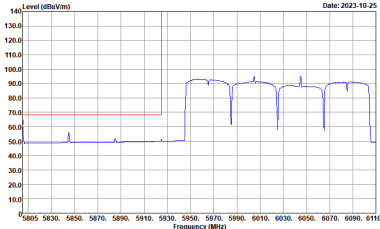
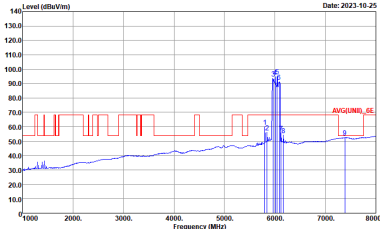


UNII-5 - 5925~6425MHz

Multiple carrier_contiguous 40M +40M +40M +40M(Band Edge @ 3m)

	UNII-5 5925~6425MHz Band Edge @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 5965+6005+6045+6085MHz	
16Tx	Horizontal	Fundamental
Peak	Site : 03CH02-CA Condition : PEAK_BE(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH02-CA Condition : AVG_BE(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto



	UNII-5 5925~6425MHz Band Edge @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 5965+6005+6045+6085MHz	
16Tx	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH02-CA Condition : AVG_BE(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

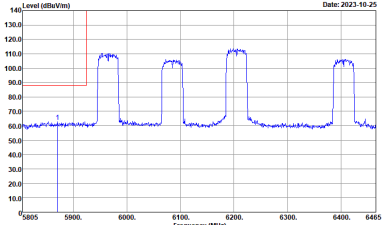
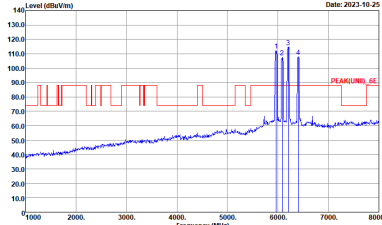
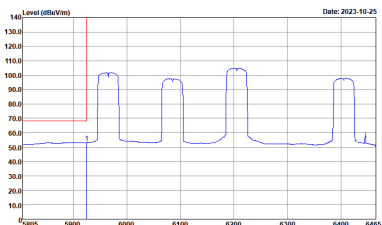
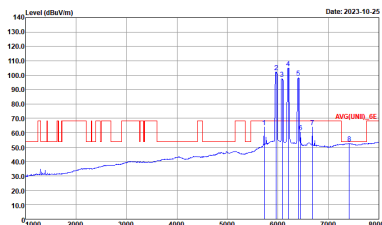


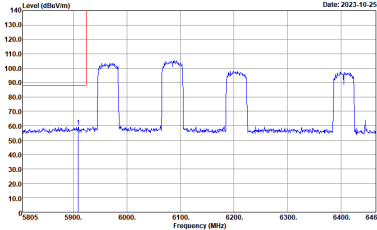
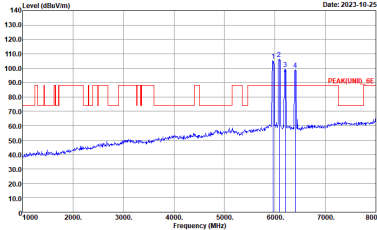
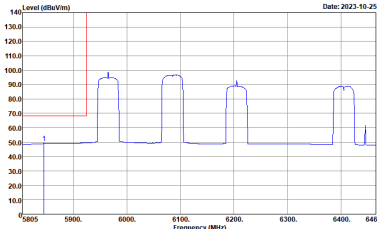
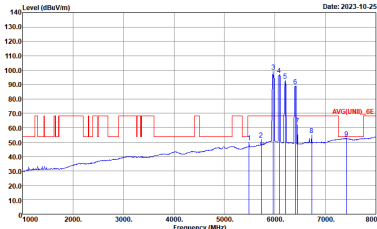
	UNII-5 5925~6425MHz Fundamental @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6125+6165+6205+6245MHz	
16Tx	Horizontal	Vertical
Peak	Horizontal Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot displays a series of peaks across the frequency range, with a prominent peak at approximately 6125 MHz. The Y-axis ranges from 10.0 to 140.0 dBuV/m, and the X-axis ranges from 1000 to 8000 MHz. The plot is dated 2023-10-25. Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Vertical Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot displays a series of peaks across the frequency range, with a prominent peak at approximately 6125 MHz. The Y-axis ranges from 10.0 to 140.0 dBuV/m, and the X-axis ranges from 1000 to 8000 MHz. The plot is dated 2023-10-25. Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Horizontal Avg. Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot displays a series of peaks across the frequency range, with a prominent peak at approximately 6125 MHz. The Y-axis ranges from 10.0 to 140.0 dBuV/m, and the X-axis ranges from 1000 to 8000 MHz. The plot is dated 2023-10-25. Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Vertical Avg. Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot displays a series of peaks across the frequency range, with a prominent peak at approximately 6125 MHz. The Y-axis ranges from 10.0 to 140.0 dBuV/m, and the X-axis ranges from 1000 to 8000 MHz. The plot is dated 2023-10-25. Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



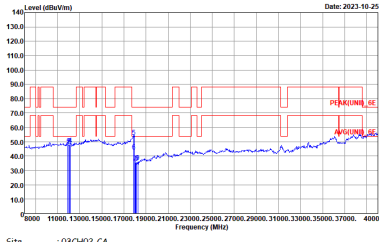
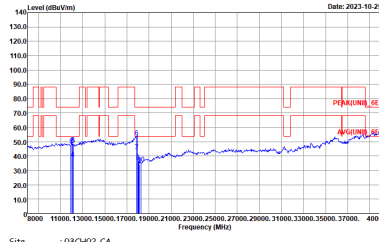
	UNII-5 5925~6425MHz Fundamental @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6285+6325+6365+6405MHz	
16Tx	Horizontal	Vertical
Peak	Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

UNII-5 5925~6425MHz
Multiple carrier_non contiguous 40+40+40+40M (Band Edge @ 3m)

UNII-5 5925~6425MHz Band Edge @ 3m		
ANT	multiple carrier_non contiguous 40+40+40+40M 5965+6085+6205+6405MHz	
16Tx	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UNIT)_AE 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT)_AE 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH02-CA Condition : AVG_BE(UNIT)_AE 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH02-CA Condition : AVG(UNIT)_AE 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

	UNII-5 5925~6425MHz Band Edge @ 3m	
ANT	multiple carrier_ non contiguous 40+40+40+40M	
	5965+6085+6205+6405 MHz	
16Tx	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UNIT)_6E 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH02-CA Condition : AVG_BE(UNIT)_6E 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

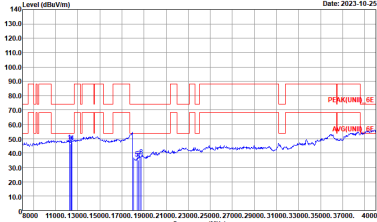
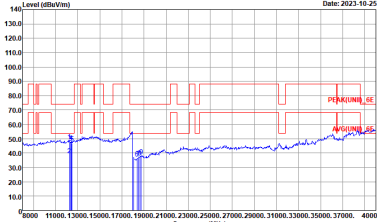
UNII-5 - 5925~6425MHz
multiple carrier_contiguous 40+40+40+40 (Harmonic @ 3m)

	UNII-5 5925~6425MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 5965+6005+6045+6085MHz	
16Tx	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL



	UNII-5 5925~6425MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 5965+6005+6045+6085MHz	
16Tx	Horizontal	Vertical
10.6G ~18G Avg.	Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 HORIZONTAL	Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 VERTICAL
38.6G ~40G Avg.	Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL



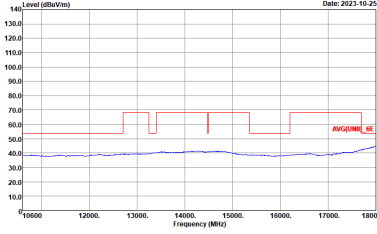
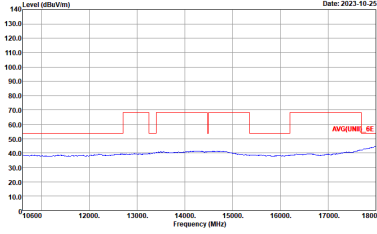
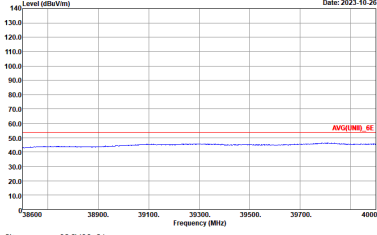
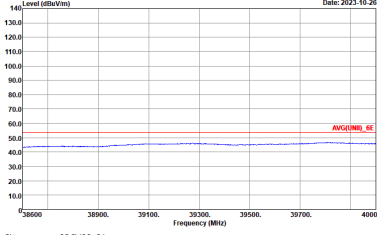
	UNII-5 5925~6425MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6125+6165+6205+6245MHz	
16Tx	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL



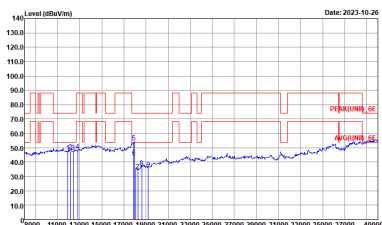
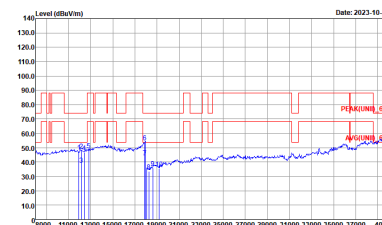
	UNII-5 5925~6425MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6125+6165+6205+6245MHz	
16Tx	Horizontal	Vertical
10.6G ~18G Avg.	Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 HORIZONTAL	Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 VERTICAL
38.6G ~40G Avg.	Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL



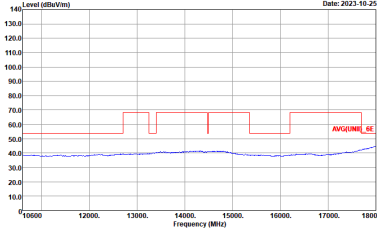
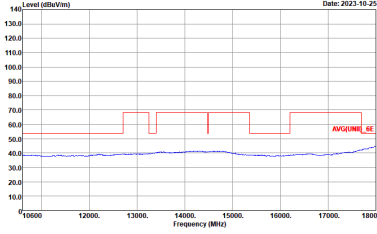
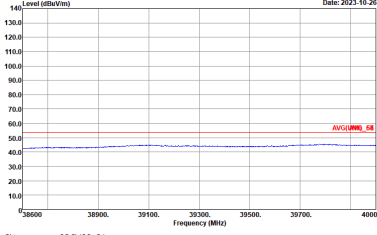
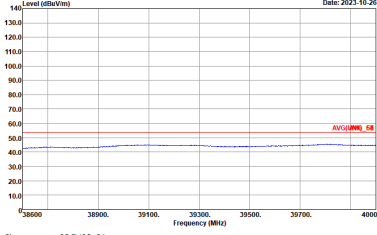
	UNII-5 5925~6425MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6285+6325+6365+6405MHz	
16Tx	Horizontal	Vertical
Peak Avg.	Level (dBm/100) Date: 2023-10-25 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	Level (dBm/100) Date: 2023-10-25 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL

	UNII-5 5925~6425MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6285+6325+6365+6405MHz	
16Tx	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 VERTICAL
	 Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL
38.6G ~40G Avg.		

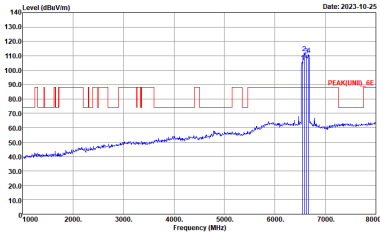
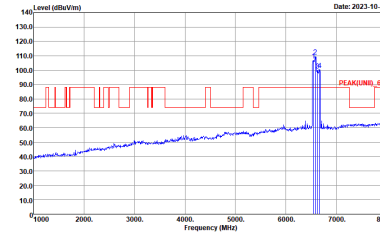
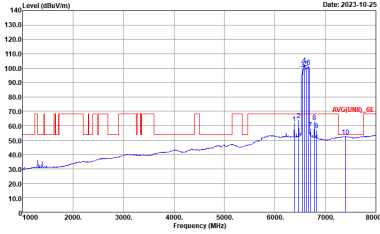
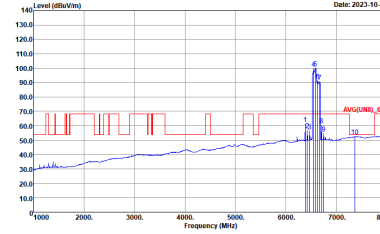
UNII-5 5925~6425MHz
multiple carrier_non contiguous 40+40+40+40M (Harmonic @ 3m)

	UNII-5 5925~6425MHz Harmonic @ 3m	
ANT	multiple carrier_non contiguous 40+40+40+40M 5965+6085+6205+6405MHz	
16Tx	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL



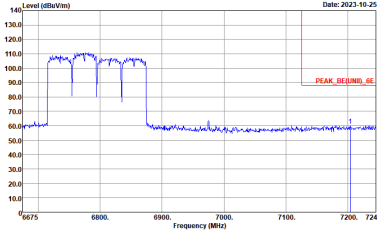
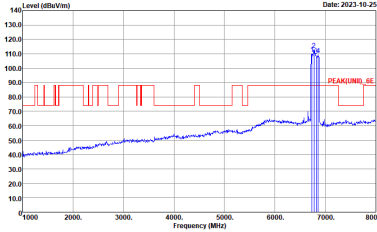
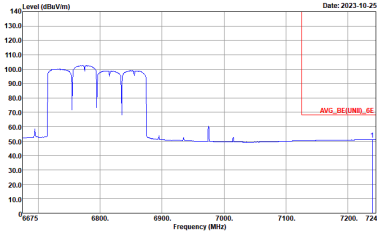
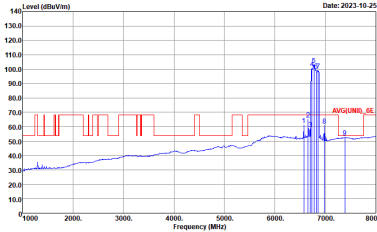
	UNII-5 5925~6425MHz Harmonic @ 3m	
ANT	multiple carrier_ non contiguous 40+40+40+40M 5965+6085+6205+6405MHz	
16Tx	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AV6(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNIT)_6E 3m HORN_02140_230109 VERTICAL
38.6G ~40G Avg.	 Site : 03CH02-CA Condition : AV6_54 1m SHF_HORN_842_230717 HORIZONTAL	 Site : 03CH02-CA Condition : AV6_54 1m SHF_HORN_842_230717 VERTICAL

UNII-7 6525~6875MHz
multiple carrier_contiguous 40+40+40+40M (Band Edge @ 3m)

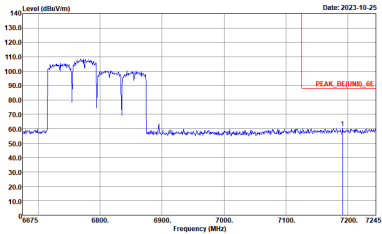
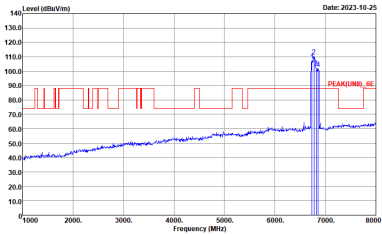
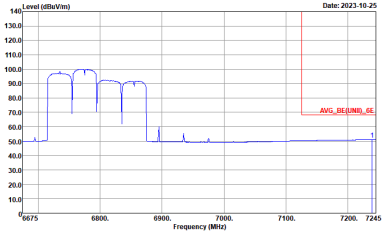
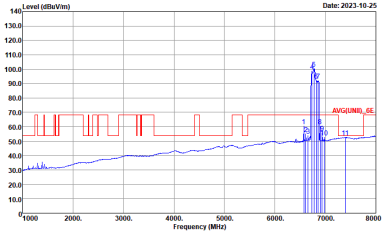
	UNII-7 6525~6875MHz Fundamental @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6545+6585+6625+6665MHz	
16Tx	Horizontal	Vertical
Peak	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH02-CA Condition : AVG(UNII)_6E 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH02-CA Condition : AVG(UNII)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto



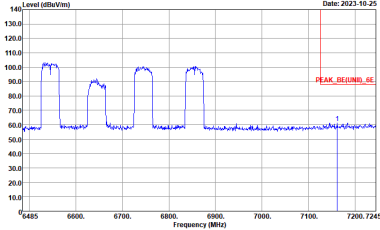
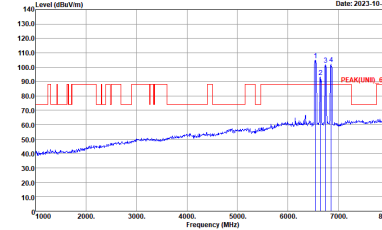
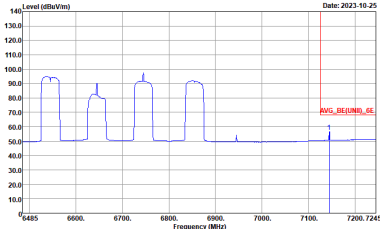
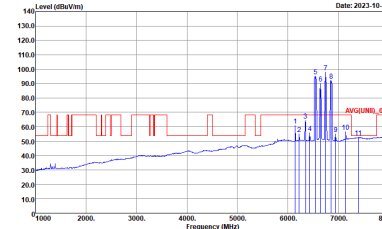
	UNII-7 6525~6875MHz Fundamental @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6645+6685+6725+6765 MHz	
16Tx	Horizontal	Vertical
Peak	Level (dBuV/m) Frequency (MHz) Date: 2023-10-25 Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBuV/m) Frequency (MHz) Date: 2023-10-25 Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Level (dBuV/m) Frequency (MHz) Date: 2023-10-25 Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Level (dBuV/m) Frequency (MHz) Date: 2023-10-25 Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

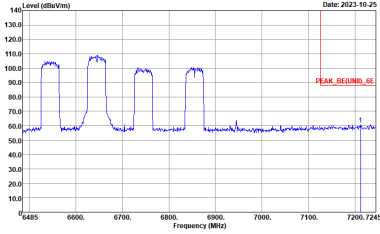
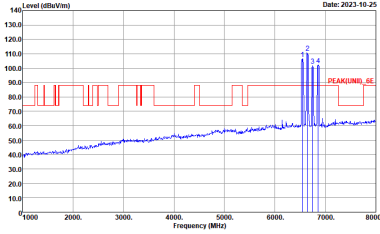
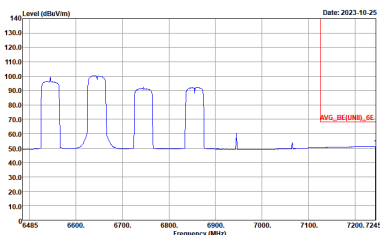
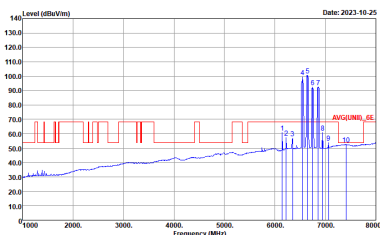
	UNII-7 6525~6875MHz Band Edge @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6735+6775+6815+6855 MHz	
16Tx	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH02-CA Condition : AVG_BE(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



UNII-7 6525~6875MHz Band Edge @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6735+6775+6815+6855 MHz
16Tx	Vertical
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH02-CA Condition : AVG_BE(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto
	 Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

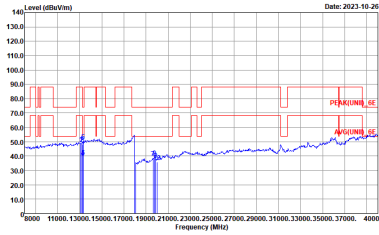
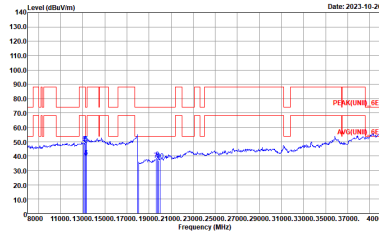
multiple carrier_non contiguous 40+40+40+40M (Band Edge @ 3m)

	UNII-7 6525~6875MHz Band Edge @ 3m	
ANT	multiple carrier_non contiguous 40+40+40+40M 6545+6645+6745+6855MHz	
16Tx	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UNIT)_AE 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT)_AE 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH02-CA Condition : AVG_BE(UNIT)_AE 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH02-CA Condition : AVG(UNIT)_AE 3m HORN_02140_230109 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

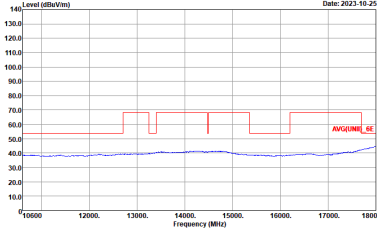
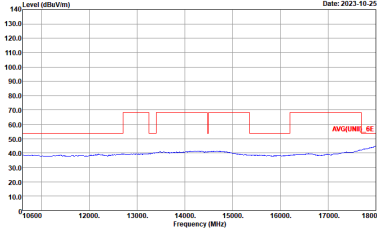
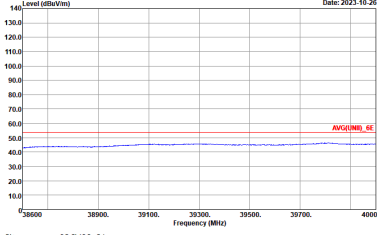
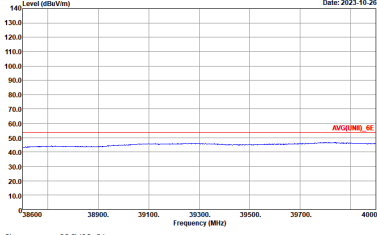
UNII-7 6525~6875MHz Band Edge @ 3m		
ANT	multiple carrier_ non contiguous 40+40+40M 6545+6645+6745+6855MHz	
16Tx	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH02-CA Condition : PEAK(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH02-CA Condition : AVG_BE(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH02-CA Condition : AVG(UNIT)_6E 3m HORN_02140_230109 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

UNII-7 6525~6875MHz

multiple carrier_contiguous 40+40+40+40M (Harmonic @ 3m)

	UNII-7 6525~6875MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6545+6585+6625+6665MHz	
16Tx	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_84L_230822 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_84L_230822 VERTICAL

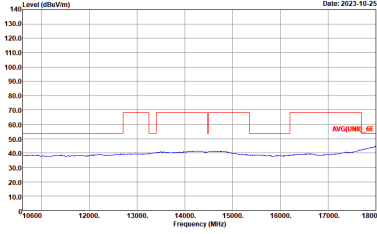
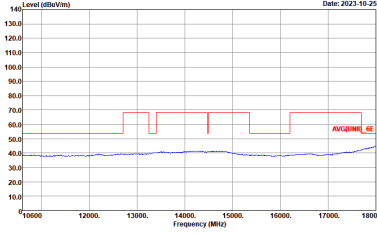
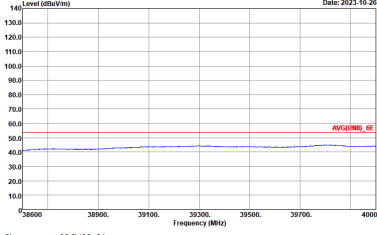
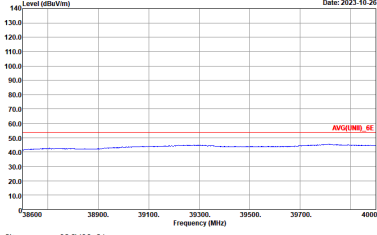


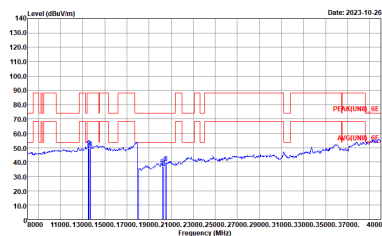
	UNII-7 6525~6875MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6545+6585+6625+6665MHz	
16Tx	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 VERTICAL
38.6G ~40G Avg.	 Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL



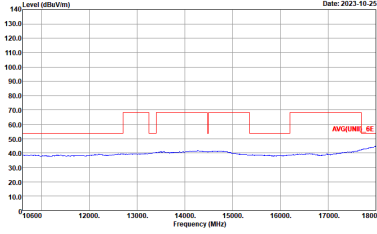
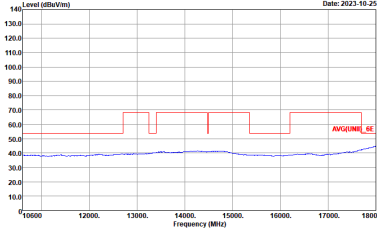
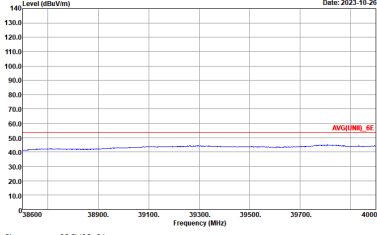
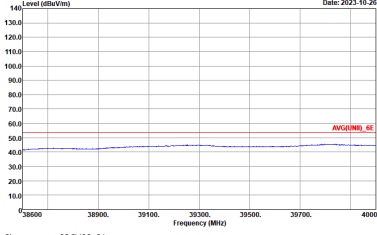
	UNII-7 6525~6875MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6645+6685+6725+6765 MHz	
16Tx	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK[UNII]_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK[UNII]_6E 1m SHF_HORN_841_230822 VERTICAL



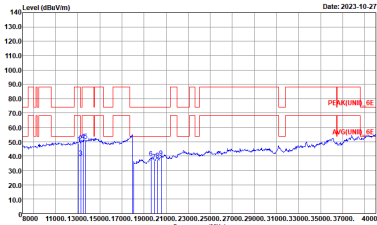
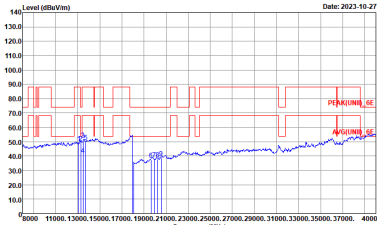
	UNII-7 6525~6875MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6645+6685+6725+6765 MHz	
16Tx	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 VERTICAL
38.6G ~40G Avg.	 Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL

	UNII-7 6525~6875MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6735+6775+6815+6855MHz	
16Tx	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL

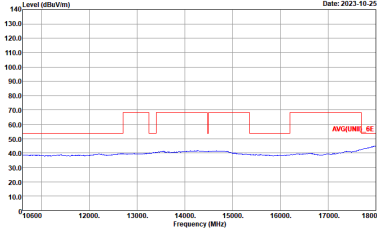
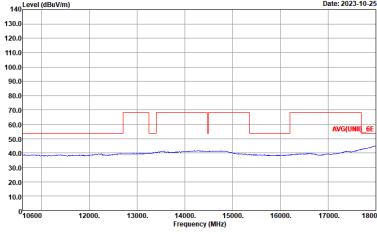
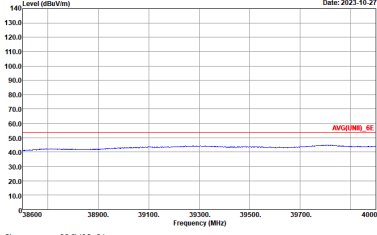
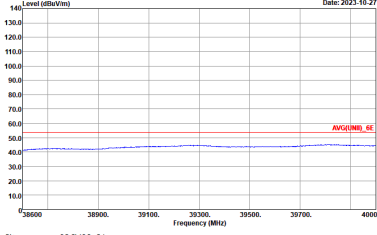


	UNII-7 6525~6875MHz Harmonic @ 3m	
ANT	multiple carrier_contiguous 40+40+40+40M 6735+6775+6815+6855MHz	
16Tx	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 VERTICAL
38.6G ~40G Avg.	 Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL

UNII-7 6525~6875MHz
multiple carrier_non contiguous 40+40+40+40M (Harmonic @ 3m)

	UNII-7 6525~6875MHz Harmonic @ 3m	
ANT	multiple carrier_non contiguous 40+40+40+40M 6545+6645+6745+6855 MHz	
16Tx	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : PEAK(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL

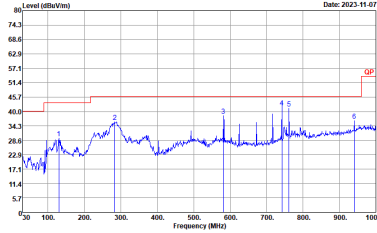
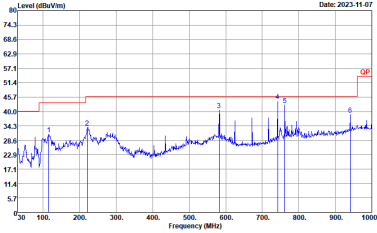


	UNII-7 6525~6875MHz Harmonic @ 3m	
ANT	multiple carrier_ non contiguous 40+40+40M 6545+6645+6745+6855 MHz	
16Tx	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNII)_6E 3m HORN_02140_230109 VERTICAL
38.6G ~40G Avg.	 Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 HORIZONTAL	 Site : 03CH02-CA Condition : AV6(UNII)_6E 1m SHF_HORN_841_230822 VERTICAL



Emission below 1GHz

6GHz (LF @ 3m)

	6GHz	
ANT	6GHz LF	
16Tx	Horizontal	Vertical
Peak QP	 Site : 03CH02-CA Condition : QP 3m BIL06_50391_230816 HORIZONTAL	 Site : 03CH02-CA Condition : QP 3m BIL06_50391_230816 VERTICAL



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
single carrier	40+40+40+40M	100.00	-	-	10Hz

