



## Regulatory Test Report

### Prepared for Harman International

This report presents detailed information on

## INFO3.8 CSM

### Simultaneous Transmission

Prepared by

Aravind Buddana

Engineer II

Approved by

Jason Kanakry

General Manager

Issue date: 08/07/2023

Report No: AH22120901-HAR-054-TR6

Simultaneous Transmission v2

This test result relates only to the described test object.

This document shall not be reproduced, except in full, without the written approval of Bureau Veritas Test Lab.

Customer must not use this test report as the product certification of each accreditation body or each national organization.

The test is traceable to national standard or related international standard

Contents

1. Test Request Information.....3

2. Test Laboratory Information.....4

3. Statement of Conformity.....5

4. Radiated Testing .....6

## 1. Test Request Information

|                            |                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Request #:            | 7700166417                                                                                                                                                                                                                                                                                      |
| Test Requested By:         | Mark Bowman<br>Harman International Industries, Inc.<br>30001 Cabot Drive, Novi, MI 48377                                                                                                                                                                                                       |
| Test item Description:     | INFO3.8 CSM                                                                                                                                                                                                                                                                                     |
| Part Number:               | 8709305                                                                                                                                                                                                                                                                                         |
| DUT Sample Number:         | AH22120901-HAR-054#2                                                                                                                                                                                                                                                                            |
| Hardware Version of DUT:   | PV                                                                                                                                                                                                                                                                                              |
| Software Version of DUT:   | 17.80.200.219                                                                                                                                                                                                                                                                                   |
| Component Category of DUT: | N/A                                                                                                                                                                                                                                                                                             |
| FCC ID:                    | 2AHPN-BE2867                                                                                                                                                                                                                                                                                    |
| ISED ID:                   | 6434C-BE2867                                                                                                                                                                                                                                                                                    |
| Type of Test:              | FCC Certification                                                                                                                                                                                                                                                                               |
| Test Method:               | CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 2,<br>ISED Canada RSS-Gen Issue 5, FCC KDB 558074 D01 15.247 Measurement Guidance v05<br>and ANSI C63.10-2013<br>CFR Title 47 FCC Part 15.407, FCC KDB 789033 D02 General UNII Test Procedures New<br>Rules v02r01 and ANSI C63.10-2013 |
| Deviations from standard:  | None                                                                                                                                                                                                                                                                                            |
| Approved Test Plan Number: | N/A                                                                                                                                                                                                                                                                                             |
| Test Plan Revision:        | N/A                                                                                                                                                                                                                                                                                             |
| Date test sample received: | 10-07-2022                                                                                                                                                                                                                                                                                      |
| Date test started:         | 03-01-2023                                                                                                                                                                                                                                                                                      |
| Date test finished:        | 03-06-2023                                                                                                                                                                                                                                                                                      |

---

## 2. Test Laboratory Information

|                                   |                                                                                                                                                                                                                           |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Location of Test Lab:</b>      | The radiated and conducted emissions test sites are located at<br>Bureau Veritas<br>815 N. Opdyke Rd #100,<br>Auburn Hills, MI 48326,<br>Phone: +1-248-836-4700                                                           |
| <b>Key Contact:</b>               | Jason Kanakry (General Manager)<br><a href="mailto:Jason.Kanakry@BureauVeritas.com">Jason.Kanakry@BureauVeritas.com</a><br>Phone: +1-248-836-4747                                                                         |
| <b>Laboratory Accreditations:</b> | BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. |
| <b>ISO/IEC 17025:2017:</b>        | 5678.01                                                                                                                                                                                                                   |
| <b>FCC Test Site Number:</b>      | US1278 (242530)                                                                                                                                                                                                           |
| <b>IC Test Site Number:</b>       | US0229 (26240)                                                                                                                                                                                                            |

### 3. Statement of Conformity

| RSS-GEN | RSS 247 | Part 15          | Comments                                                                                                                                                                               |
|---------|---------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.4     |         | 15.15(b)         | There are no controls accessible to the user that varies the output power to operate in violation of the regulatory requirements.                                                      |
|         |         | 15.19            | The label is shown in the label exhibit.                                                                                                                                               |
|         |         | 15.21            | Information to the user is shown in the instruction manual exhibit.                                                                                                                    |
|         |         | 15.27            | No special accessories are required for compliance.                                                                                                                                    |
| 3.2     |         | 15.31            | The EUT was tested in accordance with the measurement standards in this section.                                                                                                       |
| 6.13.2  |         | 15.33            | Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.                                                  |
| 6.13.1  |         | 15.35            | The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.      |
| 6.8     |         | 15.203           | EUT employs integrated PCB antenna with<br>Bluetooth at 5.98dBi<br>WLAN 2.4G at 2.57dBi gain.<br>WLAN 5G UNII-1 at 4.39dBi and UNII-3 at 5.05dBi                                       |
| 8.10    |         | 15.205<br>15.209 | The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209 or RSS-Gen as applicable |
| 8.8     |         | 15.207           | N/A. EUT is vehicle battery powered only.                                                                                                                                              |

## 4. Radiated Testing

### 4.1 Test Summary

This test report supports an application for **INFO3.8 CSM** Testing pursuant to

CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 2, ISED Canada RSS-Gen Issue 5, FCC KDB 558074 D01 15.247

Measurement Guidance v05 and ANSI C63.10-2013.

CFR Title 47 FCC Part 15.407, FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and ANSI C63.10-2013

| Bluetooth Classic     |                 |                                  |                                                                         |                                           |
|-----------------------|-----------------|----------------------------------|-------------------------------------------------------------------------|-------------------------------------------|
| Details               |                 | Description                      |                                                                         |                                           |
| Frequency Range (MHz) |                 | 2402 – 2483.5                    |                                                                         |                                           |
| Modulations Supported |                 | GFSK, $\pi/4$ DQPSK, 8DPSK       |                                                                         |                                           |
| Number of Channels    |                 | 79                               |                                                                         |                                           |
| DUT S/N               |                 | AH22120901-HAR-054#2             |                                                                         |                                           |
| DUT Model             |                 | INFO3.8 CSM                      |                                                                         |                                           |
| DUT Operating Mode    |                 | Bluetooth Test Mode              |                                                                         |                                           |
| DUT Operating Voltage |                 | 12V                              |                                                                         |                                           |
| Tested Modulation     |                 | 3-DH5                            |                                                                         |                                           |
| Tested Channels       |                 | 39,78                            |                                                                         |                                           |
| Start Date            |                 | 03-01-2023                       |                                                                         |                                           |
| End Date              |                 | 03-03-2023                       |                                                                         |                                           |
| Tested By             |                 | Aravind Buddana                  |                                                                         |                                           |
| Temperature/Humidity  |                 | Temperature:22.8C Humidity:25.9% |                                                                         |                                           |
| Antenna               | Frequency Range | Polarization                     | Result Over/Under Limit                                                 | Notes                                     |
| Log Periodic          | 30MHz-1GHz      | Horizontal                       | <input type="checkbox"/> Over <input checked="" type="checkbox"/> Under | Emission close to 6dB Limit around 959MHz |
|                       |                 | Vertical                         | <input type="checkbox"/> Over <input checked="" type="checkbox"/> Under | √                                         |
| Horn                  | 1GHz-18GHz      | Horizontal                       | <input type="checkbox"/> Over <input checked="" type="checkbox"/> Under | √                                         |
|                       |                 | Vertical                         | <input type="checkbox"/> Over <input checked="" type="checkbox"/> Under | √                                         |
|                       |                 | Vertical                         | <input type="checkbox"/> Over <input checked="" type="checkbox"/> Under | √                                         |

Notes: √ meets the requirements of the acceptance criteria.

| Bluetooth Low Energy  |                 |                                                       |                               |                                           |                                           |
|-----------------------|-----------------|-------------------------------------------------------|-------------------------------|-------------------------------------------|-------------------------------------------|
| Details               |                 | Description                                           |                               |                                           |                                           |
| Frequency Range (MHz) |                 | 2402 – 2483.5                                         |                               |                                           |                                           |
| Data Rate Supported   |                 | 1MHz                                                  |                               |                                           |                                           |
| Number of Channels    |                 | 40                                                    |                               |                                           |                                           |
| DUT S/N               |                 | AH22120901-HAR-054#2                                  |                               |                                           |                                           |
| DUT Model             |                 | INFO3.8 CSM                                           |                               |                                           |                                           |
| DUT Operating Mode    |                 | Bluetooth Test Mode                                   |                               |                                           |                                           |
| DUT Operating Voltage |                 | 12V                                                   |                               |                                           |                                           |
| Tested Data Rate      |                 | 1MHz                                                  |                               |                                           |                                           |
| Tested Channels       |                 | 0,19                                                  |                               |                                           |                                           |
| Start Date            |                 | 03-01-2023                                            |                               |                                           |                                           |
| End Date              |                 | 03-03-2023                                            |                               |                                           |                                           |
| Tested By             |                 | Aravind Buddana                                       |                               |                                           |                                           |
| Temperature/Humidity  |                 | Temperature:22.8C                      Humidity:25.9% |                               |                                           |                                           |
| Antenna               | Frequency Range | Polarization                                          | Result Over/Under Limit       |                                           | Notes                                     |
| Log Periodic          | 30MHz-1GHz      | Horizontal                                            | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | Emission close to 6dB Limit around 959MHz |
|                       |                 | Vertical                                              | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | √                                         |
| Horn                  | 1GHz-18GHz      | Horizontal                                            | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | √                                         |
|                       |                 | Vertical                                              | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | √                                         |
|                       |                 | Vertical                                              | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | √                                         |

| WLAN 2.4GHz           |                 |                                                       |                                                                         |                                              |
|-----------------------|-----------------|-------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------|
| Details               |                 | Description                                           |                                                                         |                                              |
| Frequency Range (MHz) |                 | 2400 – 2483.5                                         |                                                                         |                                              |
| WLAN Modes Supported  |                 | 802.11b, 802.11g, 802.11n                             |                                                                         |                                              |
| Number of Channels    |                 | 11                                                    |                                                                         |                                              |
| DUT S/N               |                 | AH22120901-HAR-054#2                                  |                                                                         |                                              |
| DUT Model             |                 | INFO3.8 CSM                                           |                                                                         |                                              |
| DUT Operating Mode    |                 | WLAN Test Mode                                        |                                                                         |                                              |
| DUT Operating Voltage |                 | 12V                                                   |                                                                         |                                              |
| Tested Modes          |                 | 802.11n                                               |                                                                         |                                              |
| Tested Channels       |                 | 6,11                                                  |                                                                         |                                              |
| Comment               |                 | Meets Requirements                                    |                                                                         |                                              |
| Start Date            |                 | 03-01-2023                                            |                                                                         |                                              |
| End Date              |                 | 03-03-2023                                            |                                                                         |                                              |
| Tested By             |                 | Aravind Buddana                                       |                                                                         |                                              |
| Temperature/Humidity  |                 | Temperature:22.8C                      Humidity:25.9% |                                                                         |                                              |
| Antenna               | Frequency Range | Polarization                                          | Result<br>Over/Under Limit                                              | Notes                                        |
| Log Periodic          | 30MHz-1GHz      | Horizontal                                            | <input type="checkbox"/> Over <input checked="" type="checkbox"/> Under | Emission close to 6dB<br>Limit around 959MHz |
|                       |                 | Vertical                                              | <input type="checkbox"/> Over <input checked="" type="checkbox"/> Under | √                                            |
| Horn                  | 1GHz-18GHz      | Horizontal                                            | <input type="checkbox"/> Over <input checked="" type="checkbox"/> Under | √                                            |
|                       |                 | Vertical                                              | <input type="checkbox"/> Over <input checked="" type="checkbox"/> Under | √                                            |
|                       |                 | Vertical                                              | <input type="checkbox"/> Over <input checked="" type="checkbox"/> Under | √                                            |

Notes: V meets the requirements of the acceptance criteria.

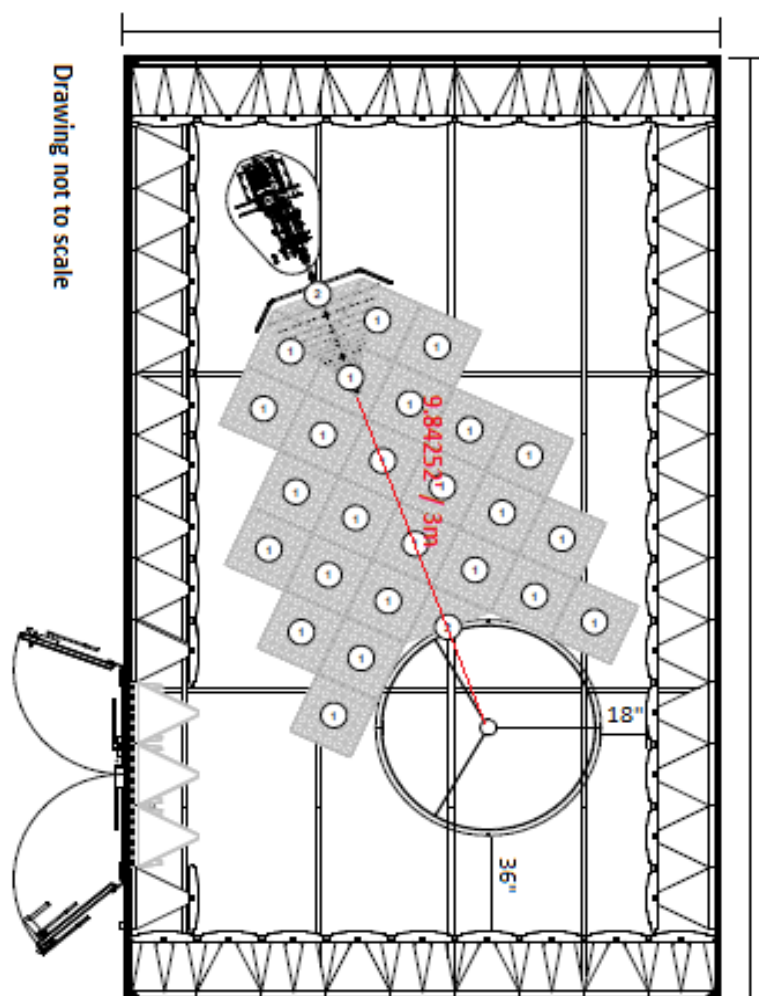
| WLAN 5GHz UNII-1      |                 |                            |                               |                                           |                                           |
|-----------------------|-----------------|----------------------------|-------------------------------|-------------------------------------------|-------------------------------------------|
| Details               |                 | Description                |                               |                                           |                                           |
| Frequency Range (MHz) |                 | 5180 – 5240                |                               |                                           |                                           |
| WLAN Modes Supported  |                 | 802.11a, 802.11n, 802.11ac |                               |                                           |                                           |
| Number of Channels    |                 | 6                          |                               |                                           |                                           |
| DUT S/N               |                 | AH22120901-HAR-054#2       |                               |                                           |                                           |
| DUT Model             |                 | INFO3.8 CSM                |                               |                                           |                                           |
| DUT Operating Mode    |                 | WLAN Test Mode             |                               |                                           |                                           |
| DUT Operating Voltage |                 | 12V                        |                               |                                           |                                           |
| Tested Modes          |                 | 802.11a                    |                               |                                           |                                           |
| Tested Channels       |                 | 40,48                      |                               |                                           |                                           |
| Start Date            |                 | 03-01-2023                 |                               |                                           |                                           |
| End Date              |                 | 03-03-2023                 |                               |                                           |                                           |
| Tested By             |                 | Aravind Buddana            |                               |                                           |                                           |
| Temperature/Humidity  |                 | Temperature:22.8C          |                               | Humidity:25.9%                            |                                           |
| Antenna               | Frequency Range | Polarization               | Result Over/Under Limit       |                                           | Notes                                     |
| Log Periodic          | 30MHz-1GHz      | Horizontal                 | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | Emission close to 6dB Limit around 959MHz |
|                       |                 | Vertical                   | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | √                                         |
| Horn                  | 1GHz-18GHz      | Horizontal                 | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | √                                         |
|                       |                 | Vertical                   | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | √                                         |
| Horn                  | 18GHz-40GHz     | Horizontal                 | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | √                                         |
|                       |                 | Vertical                   | <input type="checkbox"/> Over | <input checked="" type="checkbox"/> Under | √                                         |

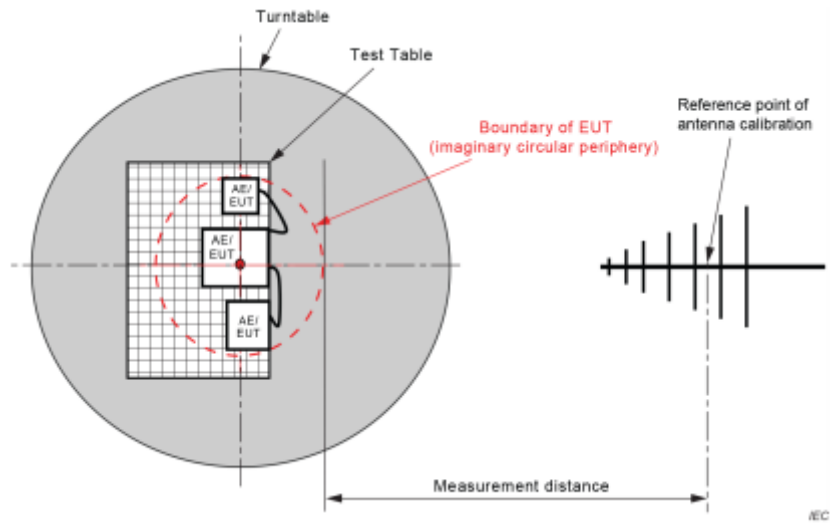
## 4.2 Test Setup

Semi-Anechoic Chamber Test Site-3 meter

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| Chamber Location               | 815 N Opdyke Rd<br>Auburn Hills, Michigan 48326 |
| Chamber Manufacturer:          | ETS-Lindgren                                    |
| Chamber Type                   | Semi-Anechoic                                   |
| Model                          | FACT™ 3-2.0 Plus                                |
| Chamber Dimensions (L x W x H) | 18'x18'x30'                                     |
| Quiet Zone Diameter            | 2.0 meters                                      |
| Quiet Zone Test Heights        | 1 & 2 meters (front only)                       |
| Test Distance                  | 3.0 meters                                      |
| Test Frequency Range           | 1-40 GHz                                        |
| Measured Performance           | 4.87 dB Site sVSWR                              |

Chamber Dimensions





### 4.3 Test Equipment Used

| ID #    | Equipment                                       | Manufacturer          | Model #        | Serial #              | Cal Due    |
|---------|-------------------------------------------------|-----------------------|----------------|-----------------------|------------|
| BVD0217 | Receiver 2Hz-44GHz                              | Rohde & Schwarz       | ESW44          | 101871                | 4/20/2023  |
| BVD0118 | Antenna Mast Position Controller                | ETS                   | 7006-001       | 00214778/00<br>214648 | N/A        |
| BVD0111 | 3 Meter Anechoic Chamber                        | ETS                   | N/A            | N/A                   | N/A        |
| BVD0247 | Turn Table                                      | ETS                   | 920250         | N/A                   | N/A        |
| BVD0323 | Foam Test Table For 3 Meter Chamber             | ETS-Lindgren          | LDT-1.5        | N/A                   | N/A        |
| BVD0069 | Bore Sight Tower                                | ETS                   | 2171B          | 226732                | N/A        |
| BVD0259 | Optima 12V Blue top Marine battery              | Optima                | D34M           | N/A                   | N/A        |
| BVD0184 | Preamplifier 29dB 1-18GHz                       | Rohde & Schwarz       | TS-PR18        | 101646                | 5/6/2023   |
| BVD0185 | Preamplifier 45dB 18-40GHz                      | Rohde & Schwarz       | TS-PR1840      | 100064                | 4/6/2023   |
| BVD0267 | Double Ridge Waveguide 800MHz-18GHz             | Rohde & Schwarz       | HF907          | 102832                | 5/5/2023   |
| BVD0021 | UltraLog Antenna 30-6000 MHz                    | Rohde & Schwarz       | HL562E         | 101113                | 7/21/2023  |
| BVD0320 | 18-40GHz Horn Antenna                           | L3 Narda ATM          | PNR 180-442-KF | 136164-01             | 4/4/2023   |
| BVD0011 | Loop Antenna 9kHz-30MHz                         | Rohde & Schwarz       | FMZB1519B      | 145                   | 5/4/2023   |
| BVD0045 | Field Probe Mast                                | Rohde & Schwarz       | TS-FPMA        | N/A                   | N/A        |
| BVD0480 | Band Reject Filter 50dB from 2400 to 2500MHz    | Micro-Tronics         | BRM50702       | G482                  | 4/11/2023  |
| BVD0481 | Band Reject Filter 40dB from 5150 to 5880MHz    | Micro-Tronics         | BRM50716       | G336                  | 4/11/2023  |
| BVD0394 | Double Shielded N-Type Cable 6.9 Meter          | Rohde & Schwarz       | N-Type         | N/A                   | 3/11/2023  |
| BVD0398 | Double Shielded N-Type Cable 2 Meter            | Rohde & Schwarz       | N-Type         | N/A                   | 12/29/2024 |
| BVD0486 | Sucoflex K-Type Coaxial Cable 5 Meter           | Huber+Suhner, inc     | K-Type Coaxial | 474343                | 8/30/2023  |
| BVD0407 | Double Shielded N-Type Cable 410mm (For PreAmp) | Rohde & Schwarz       | N-Type         | N/A                   | 8/31/2023  |
| BVD0495 | SMA Shielded Cable approx 100mm (for Pre-Amp)   | Rohde & Schwarz       | SMA-Type       | N/A                   | 4/6/2023   |
| BVD0552 | Double Shielded N-Type Cable 440mm (For PreAmp) | Electronic Assemblies | N-Type         | N/A                   | 5/7/2023   |
| BVD0229 | Temp and Humidity Meter                         | Fluke                 | 971            | 12001009              | 5/1/2023   |

### Equipment List (Software)

| ID # | Equipment         | Manufacturer    | Model | Version No. |     |
|------|-------------------|-----------------|-------|-------------|-----|
| N/A  | EMC Test Software | Rodhe & Schwarz | EMC32 | 11.20.00    | N/A |

## Customer Supplied Equipment

| ID # | Equipment                          | Manufacturer | Model        | Serial # | Version No.     |
|------|------------------------------------|--------------|--------------|----------|-----------------|
| N/A  | Harness                            | Harman       | N/A          | N/A      | N/A             |
| N/A  | Display Unit                       | Innolux Corp | INFOMM-15524 | 0024     | N/A             |
| N/A  | Ethernet Board                     | GM           | N/A          | N/A      | CSMate<br>rev.4 |
| N/A  | GM BT WLAN Test Tool NXP Chips S/W | Harman       | N/A          | N/A      | 2.4             |

## 4.4 Test Limits and Procedures

Radiated emissions that fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

| Frequencies (MHz) | Field strength<br>( $\mu\text{V/m}$ ) | Field strength<br>(dB $\mu\text{V/m}$ ) | Measurement distance<br>(meters) |
|-------------------|---------------------------------------|-----------------------------------------|----------------------------------|
| 0.009 ~ 0.490     | $2400/F(\text{kHz})$                  | 48.5 - 13.8                             | 300                              |
| 0.490 ~ 1.705     | $24000/F(\text{kHz})$                 | 33.8 - 23                               | 30                               |
| 1.705 ~ 30.0      | 30,                                   | 29.54                                   | 30                               |
| 30 ~ 88           | 100                                   | 40.0                                    | 3                                |
| 88 ~ 216          | 150                                   | 43.5                                    | 3                                |
| 216 ~ 960         | 200                                   | 46.0                                    | 3                                |
| Above 960         | 500                                   | 54.0                                    | 3                                |

Note:

- The lower limit shall apply at the transition frequencies.
- As per 15.35(b), for frequencies above 1000MHz, the field strength limits based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- For performing measurements at a specified distance of 3m, the values are extrapolated using extrapolation factor.  
Frequencies below 30MHz are extrapolated using 40dB/decade.  
Frequencies above 30MHz are extrapolated using 20dB/decade.

| Frequencies (MHz) | Formula for Limits derivation for below<br>30MHz               | Limits for frequencies below 30MHz<br>(dB $\mu\text{V/m}$ ) |
|-------------------|----------------------------------------------------------------|-------------------------------------------------------------|
| 0.009 ~ 0.490     | $2400/F(\text{kHz}) + 40 \text{ Log } (300\text{m}/3\text{m})$ | 128.5 ~ 93.8                                                |
| 0.490 ~ 1.705     | $24000/F(\text{kHz}) + 40 \text{ Log } (30\text{m}/3\text{m})$ | 73.8 ~ 62.96                                                |
| 1.705 ~ 30.0      | $29.54 + 40 \text{ Log } (30\text{m}/3\text{m})$               | 69.54                                                       |

Radiated emissions that fall in restricted bands, as defined in RSS-GEN Section 8.10 must also comply with radiated emissions limits specified in RSS-GEN Section 8.9

The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 $\Omega$ .

For example, the measurement frequency 2185KHz resulted in a level of 29.09 dB $\mu\text{V/m}$ , which is equivalent to  $29.09 - 51.48 = -22.39$  dB $\mu\text{A/m}$ , which has the same margin, -40.45 dB, to the corresponding RSS-GEN Table 6 limit as it has to the 15.209(a) limit.

The measurement procedures are as per 789033 D02 General UNII Test Procedures New Rules v02r01, ISSED RSS-247 6.2  
The Limits for Unwanted emissions out of the Restricted Bands are as follows.

| Procedure                                                       | Limits           |                     |
|-----------------------------------------------------------------|------------------|---------------------|
|                                                                 | Peak<br>(dBμV/m) | Average<br>(dBμV/m) |
| KDB 789033 D02 General UNII Test<br>Procedures New Rules v02r01 | 74               | 54                  |

#### § 15.407

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15–5.25 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47–5.725 GHz band: All emissions outside of the 5.47–5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725–5.85 GHz band:
  - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

| Procedure    | Peak Limit<br>(dBμV/m) |
|--------------|------------------------|
| 15.407(b)(1) | 68.2                   |
| 15.407(b)(2) |                        |
| 15.407(b)(3) |                        |
| 15.407(b)(4) | As stated above        |

#### 1. The table height for emissions measurements

- i) Below 1 GHz, the table height is 80 cm above the reference ground plane.
- ii) Above 1 GHz, the table height is 1.5 m

Measurements performed with the EUT rotated from 0° to 360°, the antenna height scanned between 1m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

## 4.5 Test Data

### Uncertainty

Radiated Emissions (30MHz to 40GHz)

#### Test Engineer Initials: AB

The test is to measure the radiated emissions of the EUT. Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- NSA Calibration
- Etc., details see the below table

#### 30MHz to 1GHZ

| Source of Uncertainty                                                 | Value (dB) | ProbabilityDistribution | Division | Sensitivity Coefficient | Expanded Uncertainty |
|-----------------------------------------------------------------------|------------|-------------------------|----------|-------------------------|----------------------|
| Receiver Reading                                                      | 0.12       | Rectangular             | 1.732    | 1                       | 0.069284             |
| Cable Insertion Loss                                                  | 0.21       | Normal                  | 2        | 1                       | 0.105                |
| Filter Insertion Loss                                                 | 0.25       | Normal                  | 2        | 1                       | 0.125                |
| Antenna Factor                                                        | 0.65       | Normal                  | 2        | 1                       | 0.325                |
| Receiver CW accuracy                                                  | 0.5        | Rectangular             | 1.732    | 1                       | 0.2886836            |
| Pulse Amplitude Response                                              | 1.5        | Rectangular             | 1.732    | 1                       | 0.86605081           |
| PRF Response                                                          | 1.5        | Rectangular             | 1.732    | 1                       | 0.86605081           |
| Mismatch Filter – Receiver                                            | 0.25       | U-Shape                 | 2.449    | 1                       | 0.1768033            |
| NSA Calibration                                                       | 4.0        | Triangular              | 1.414    | 1                       | 1.633332             |
| ETS Foam Table (LDT-1.5)                                              | 1.8        | Rectangular             | 1.732    | 1                       | 1.039261             |
| Combined Standard Uncertainty (square root of the sum of the squares) |            |                         |          |                         | 2.113781             |
| <b>Expanded Uncertainty (K=2)</b>                                     |            |                         |          |                         | <b>4.227562</b>      |

The total derived measurement uncertainty is +/- 4.228 dB

#### 1GHz to 40GHz

| Source of Uncertainty                                                 | Value (dB) | Probability Distribution | Division | Sensitivity Coefficient | Expanded Uncertainty |
|-----------------------------------------------------------------------|------------|--------------------------|----------|-------------------------|----------------------|
| Receiver Reading                                                      | 0.12       | Rectangular              | 1.732    | 1                       | 0.069284             |
| Cable Insertion Loss                                                  | 0.21       | Normal                   | 2        | 1                       | 0.105000             |
| Filter Insertion Loss                                                 | 0.25       | Normal                   | 2        | 1                       | 0.125000             |
| Antenna Factor                                                        | 0.65       | Normal                   | 2        | 1                       | 0.325000             |
| Receiver CW accuracy                                                  | 0.5        | Rectangular              | 1.732    | 1                       | 0.2886836            |
| Pulse Amplitude Response                                              | 1.5        | Rectangular              | 1.732    | 1                       | 0.866051             |
| PRF Response                                                          | 1.5        | Rectangular              | 1.732    | 1                       | 0.866051             |
| Mismatch Filter – Receiver                                            | 0.25       | U-Shape                  | 1.414    | 1                       | 0.176803             |
| VSWR Calibration                                                      | 2.0        | Triangular               | 2.449    | 1                       | 0.816659             |
| ETS Foam Table (LDT-1.5)                                              | 1.8        | Rectangular              | 1.732    | 1                       | 1.039261             |
| Combined Standard Uncertainty (square root of the sum of the squares) |            |                          |          |                         | 1.869213             |
| <b>Expanded Uncertainty (K=2)</b>                                     |            |                          |          |                         | <b>3.738426</b>      |

The total derived measurement uncertainty is +/- 3.738 dB.

#### Remarks:

1. Level Q-Peak Reading (dBμV/m) = Raw Q-Peak Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Q-Peak Reading – Limit

#### Remarks:

1. Level Peak Reading (dBμV/m) = Raw Peak Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Peak Reading – Limit

#### Remarks:

1. Level Average Reading (dBμV/m) = Raw Average Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Average Reading – Limit

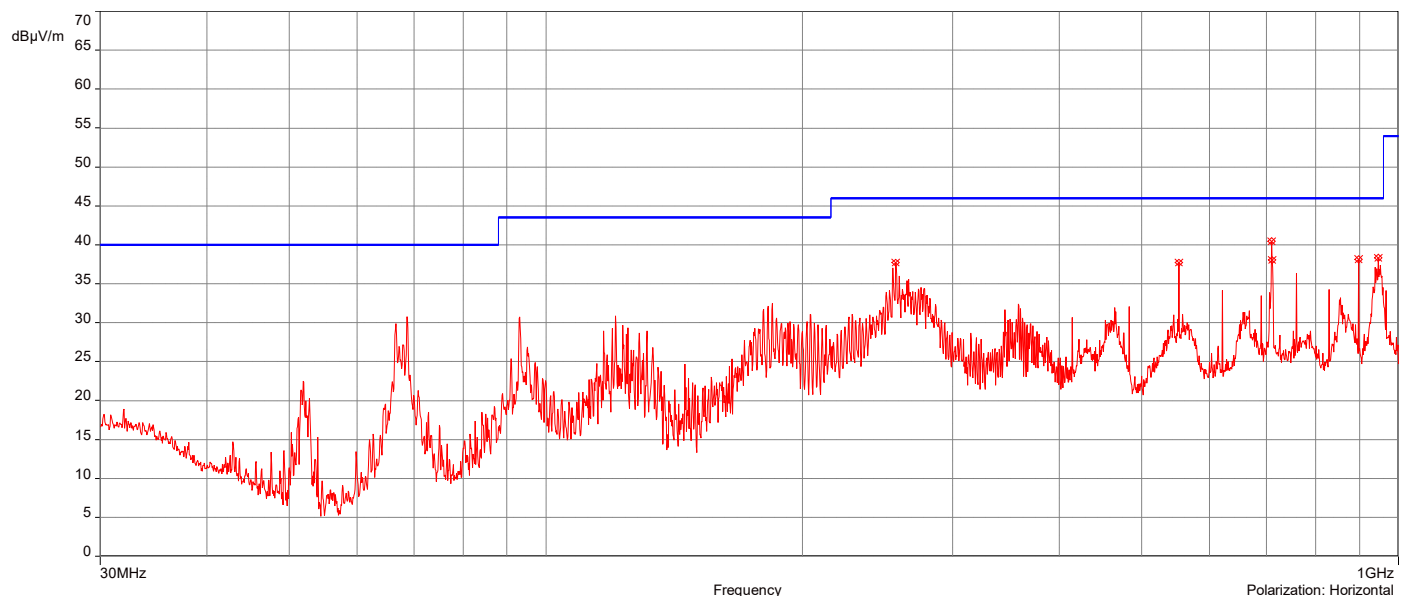
## 4.5.1 Bluetooth Low Energy + WLAN 2.4G + WLAN 5G

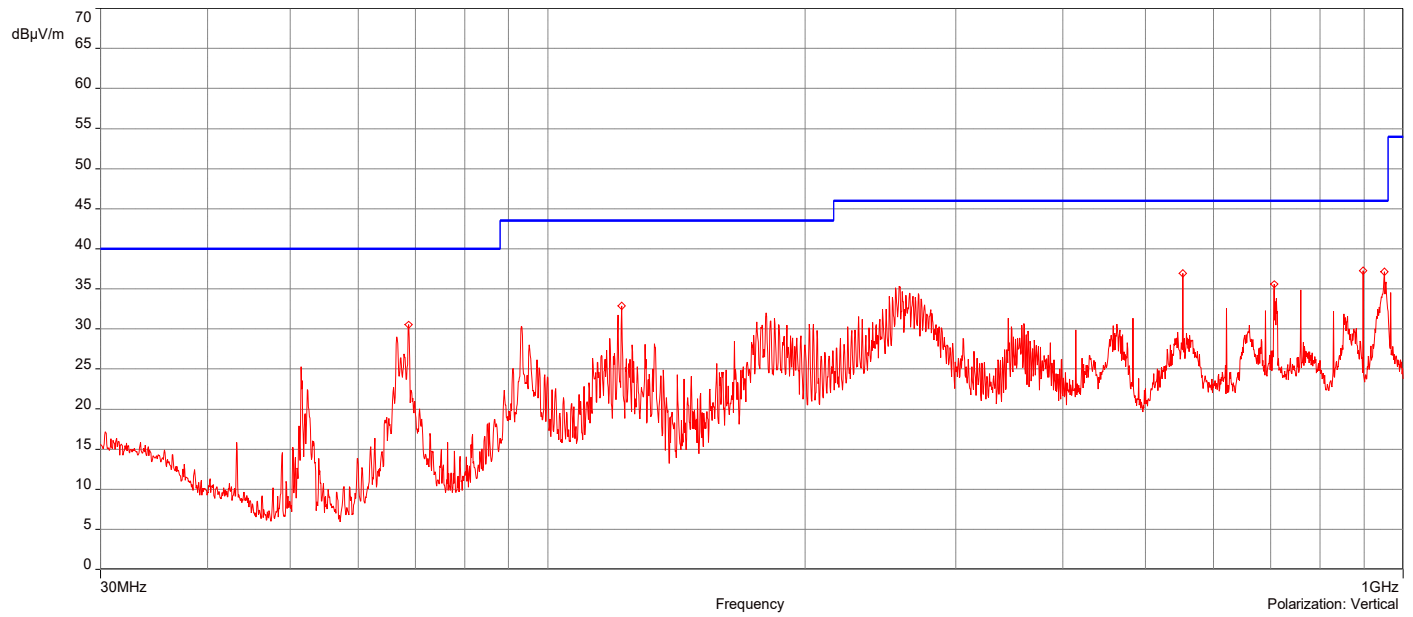
AH22120901-HAR-054#2\_BLE-1MHz CH19\_2.4G-802.11n-CH6\_5G-802.11a-CH40\_30MHz-1GHz

3/6/2023 11:13:52 AM

| No | Frequency (MHz) | Level Q-Peak Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgement |
|----|-----------------|-------------------------------|------------------------|--------------|-------------|------------|-----------|--------------|-----------|
| 1. | 257.2216MHz     | 37.73                         | -12.57                 | 46.00        | -8.27       | 1.25       | 321.10    | Horizontal   | Passed    |
| 2. | 552.40426MHz    | 37.73                         | -5.66                  | 46.00        | -8.27       | 1.50       | 111.50    | Horizontal   | Passed    |
| 3. | 710.23825MHz    | 40.47                         | -2.66                  | 46.00        | -5.53       | 2.00       | 251.50    | Horizontal   | Passed    |
| 4. | 710.98006MHz    | 38.06                         | -2.66                  | 46.00        | -7.94       | 2.75       | 149.90    | Horizontal   | Passed    |
| 5. | 897.68751MHz    | 38.13                         | -0.39                  | 46.00        | -7.87       | 1.00       | 140.40    | Horizontal   | Passed    |
| 6. | 947.33161MHz    | 38.36                         | -0.01                  | 46.00        | -7.64       | 1.00       | 340.80    | Horizontal   | Passed    |

Overall Graphs:





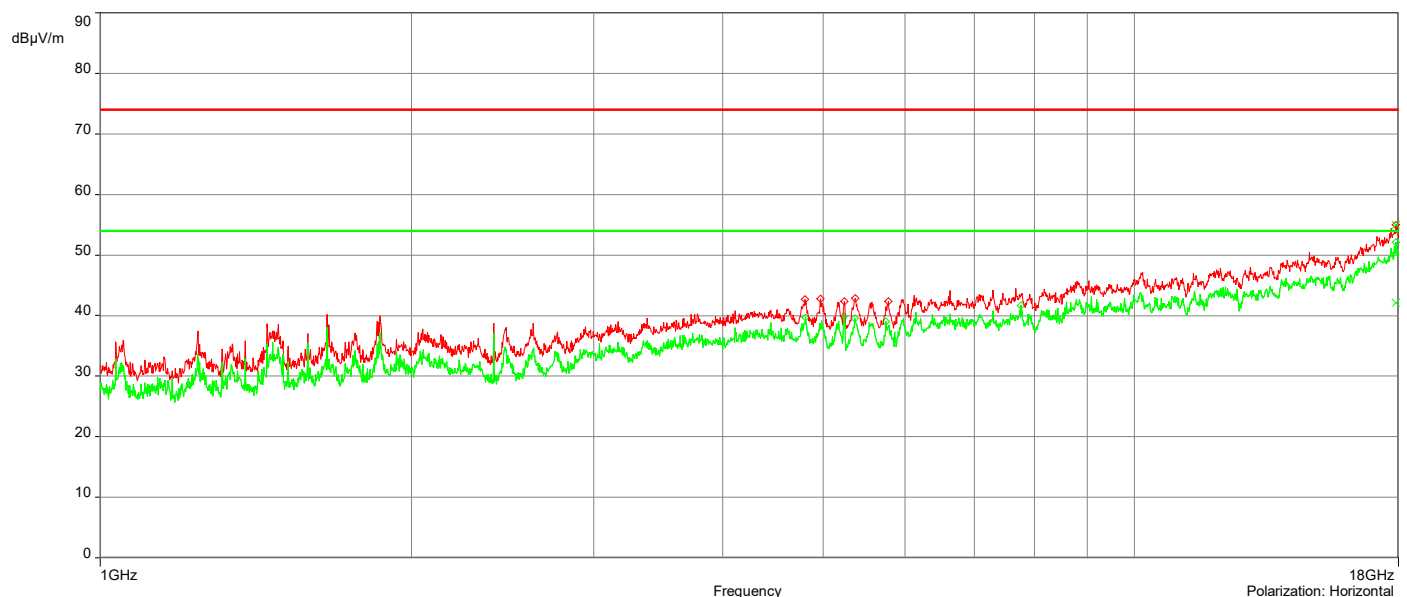
**AH22120901-HAR-054#2\_BLE-1MHz-CH0\_2.4G-802.11n-CH11\_5G-802.11a-CH48 1-18GHz**

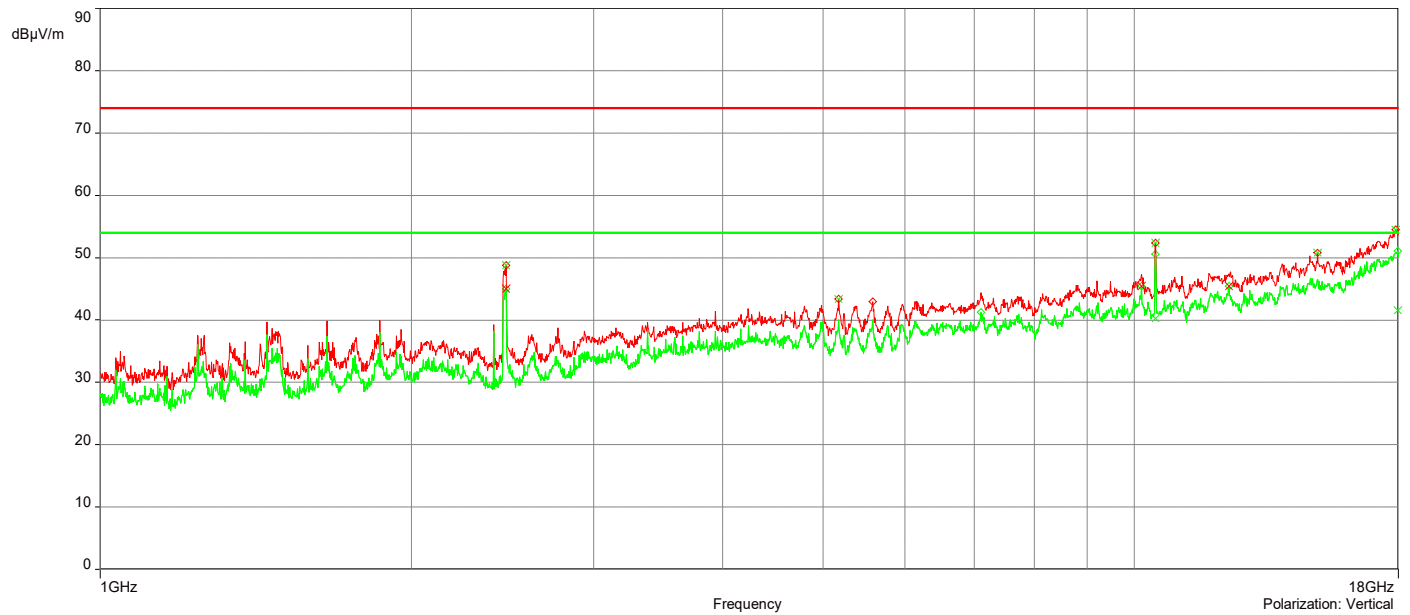
3/1/2023 2:12:13 PM

| No | Frequency (MHz) | Level Peak Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgement |
|----|-----------------|-----------------------------|------------------------|--------------|-------------|------------|-----------|--------------|-----------|
| 1. | 2.4695432GHz    | 48.79                       | -1.35                  | 74.00        | -25.21      | 2.00       | 157.00    | Vertical     | Passed    |
| 2. | 5.1766228GHz    | 43.37                       | 5.21                   | 74.00        | -30.63      | 3.00       | 231.20    | Vertical     | Passed    |
| 3. | 10.481779GHz    | 52.39                       | 9.88                   | 74.00        | -21.61      | 4.00       | 74.70     | Vertical     | Passed    |
| 4. | 15.044413GHz    | 50.83                       | 14.14                  | 74.00        | -23.17      | 2.00       | 261.30    | Vertical     | Passed    |
| 5. | 17.898497GHz    | 54.49                       | 19.81                  | 74.00        | -19.51      | 4.00       | 352.40    | Vertical     | Passed    |
| 6. | 17.899997GHz    | 55.00                       | 19.74                  | 74.00        | -19.00      | 4.00       | 10.80     | Horizontal   | Passed    |

| No | Frequency (MHz) | Level Average Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgment |
|----|-----------------|--------------------------------|------------------------|--------------|-------------|------------|-----------|--------------|----------|
| 1. | 2.4695432GHz    | 44.99                          | -1.35                  | 54.00        | -9.01       | 2.00       | 157.00    | Vertical     | Passed   |
| 2. | 10.157769GHz    | 45.42                          | 10.47                  | 54.00        | -8.58       | 2.50       | 59.50     | Vertical     | Passed   |
| 3. | 10.487279GHz    | 40.31                          | 9.88                   | 54.00        | -13.69      | 3.50       | 85.10     | Vertical     | Passed   |
| 4. | 12.350334GHz    | 45.47                          | 12.27                  | 54.00        | -8.53       | 1.00       | 2.50      | Vertical     | Passed   |
| 5. | 17.972999GHz    | 41.56                          | 20.22                  | 54.00        | -12.44      | 2.00       | 266.90    | Vertical     | Passed   |
| 6. | 17.897997GHz    | 42.11                          | 19.73                  | 54.00        | -11.89      | 1.00       | 0.10      | Horizontal   | Passed   |

Overall Graphs:





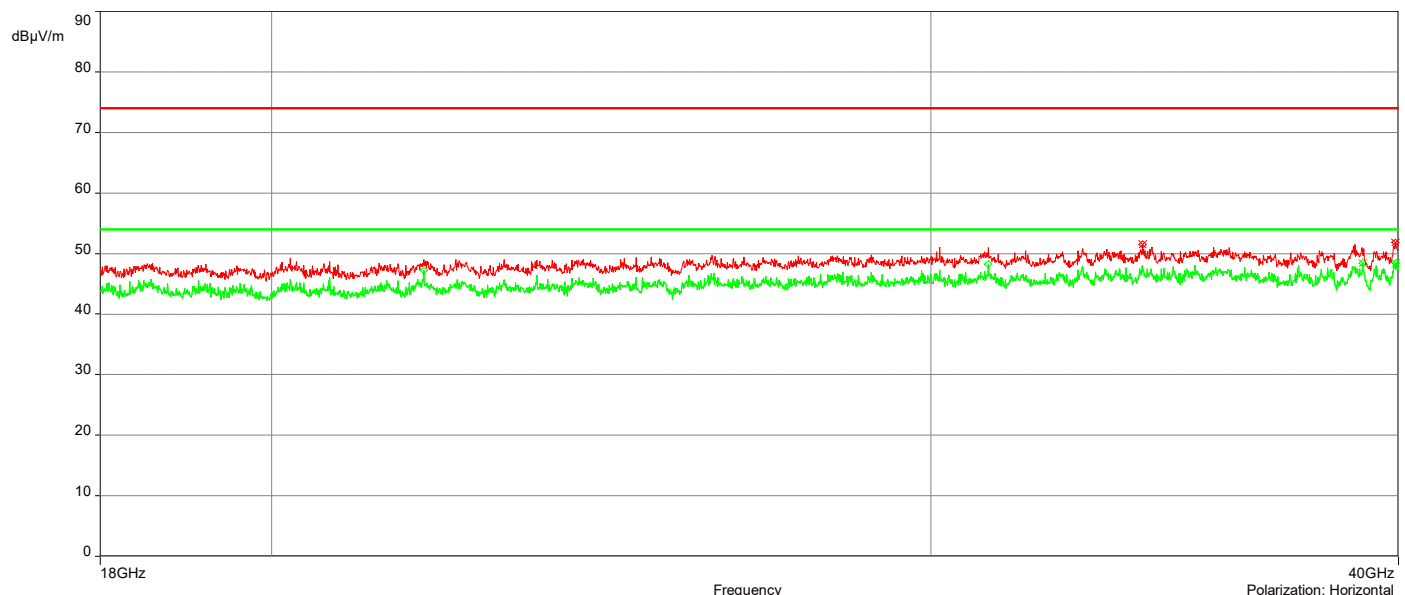
**AH22120901-HAR-054#2\_BLE-1MHz-CH0\_2.4G-802.11n-CH11\_5G-802.11a-CH48 18-40GHz**

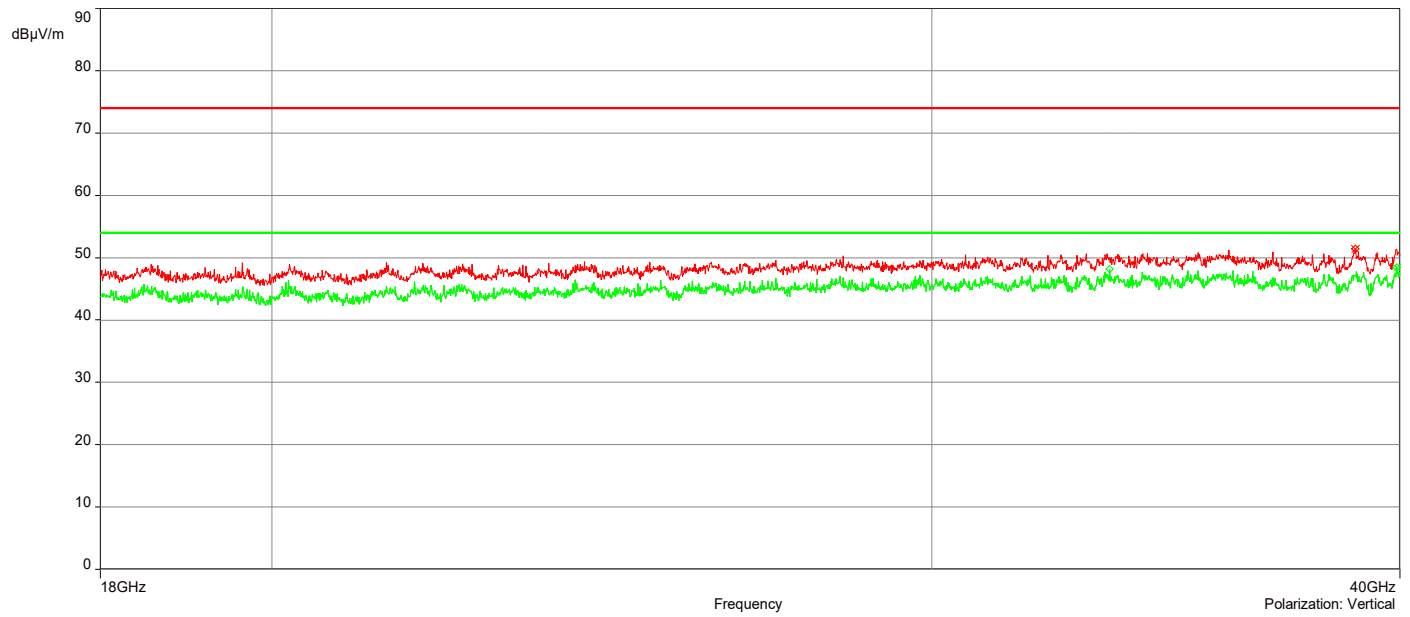
3/1/2023 12:41:35 PM

| No | Frequency (MHz) | Level Peak Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgement |
|----|-----------------|-----------------------------|------------------------|--------------|-------------|------------|-----------|--------------|-----------|
| 1. | 38.916975GHz    | 51.40                       | 6.29                   | 74.00        | -22.60      | 2.61       | 157.40    | Vertical     | Passed    |
| 2. | 34.175868GHz    | 51.54                       | 5.42                   | 74.00        | -22.46      | 2.21       | 67.40     | Horizontal   | Passed    |
| 3. | 39.927498GHz    | 51.85                       | 6.35                   | 74.00        | -22.15      | 2.86       | 157.40    | Horizontal   | Passed    |

| No | Frequency (MHz) | Level Average Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgment |
|----|-----------------|--------------------------------|------------------------|--------------|-------------|------------|-----------|--------------|----------|
| 1. | 39.919998GHz    | 48.41                          | 6.18                   | 54.00        | -5.59       | 2.35       | 89.90     | Vertical     | Passed   |
| 2. | 39.12448GHz     | 48.44                          | 6.01                   | 54.00        | -5.56       | 1.00       | 89.90     | Horizontal   | Passed   |
| 3. | 39.930498GHz    | 48.42                          | 6.35                   | 54.00        | -5.58       | 3.13       | 157.40    | Horizontal   | Passed   |

Overall Graphs:





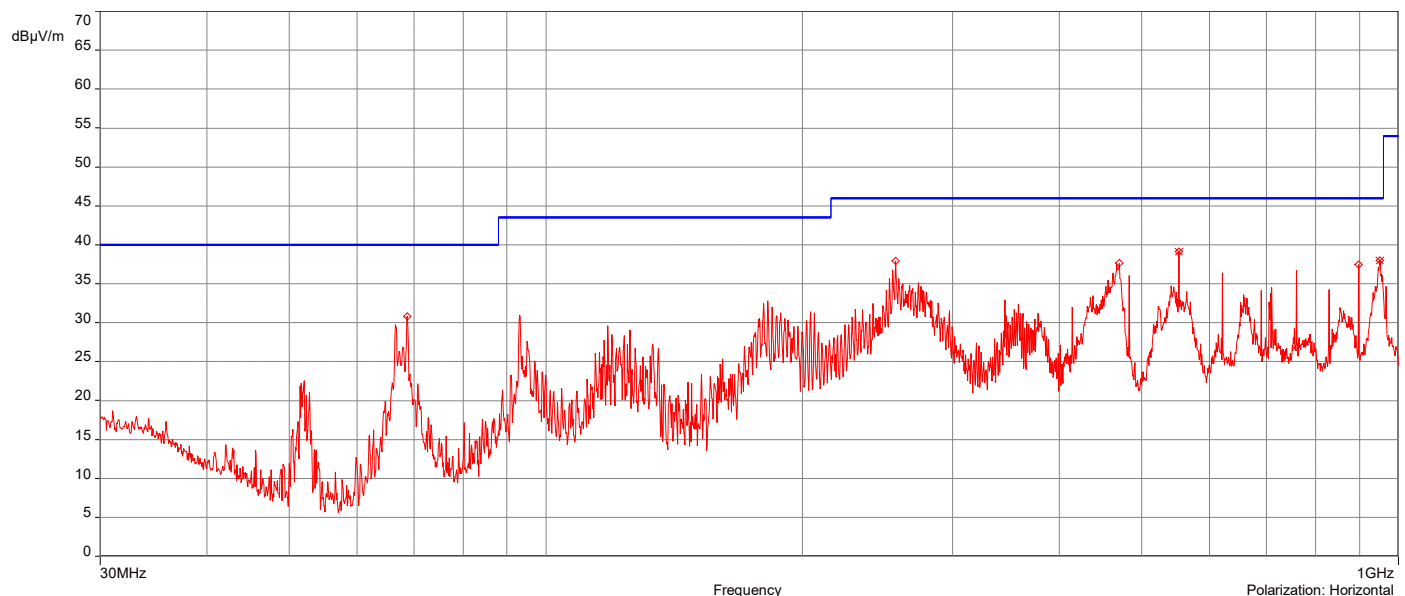
## 4.5.2 Bluetooth Classic + WLAN 2.4G + WLAN 5G

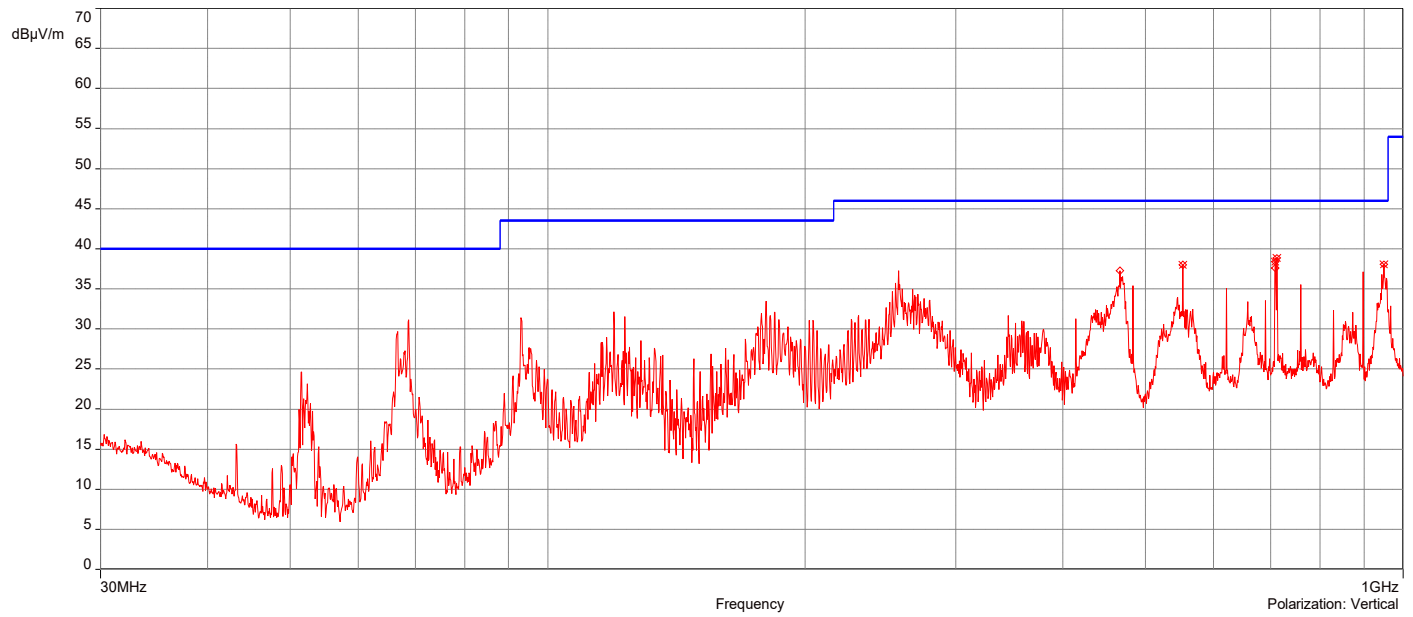
AH22120901-HAR-054#2\_BT-3DH5-CH39\_2.4G-802.11n-CH6\_5G-802.11a-CH40\_30MHz-1GHz

3/6/2023 11:55:57 AM

| No | Frequency (MHz) | Level Q-Peak Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgement |
|----|-----------------|-------------------------------|------------------------|--------------|-------------|------------|-----------|--------------|-----------|
| 1. | 552.40426MHz    | 38.00                         | -6.60                  | 46.00        | -8.00       | 1.50       | 111.20    | Vertical     | Passed    |
| 2. | 708.46932MHz    | 38.43                         | -3.87                  | 46.00        | -7.57       | 1.00       | 246.60    | Vertical     | Passed    |
| 3. | 711.83599MHz    | 38.88                         | -3.75                  | 46.00        | -7.12       | 1.00       | 233.80    | Vertical     | Passed    |
| 4. | 950.29884MHz    | 38.09                         | -1.16                  | 46.00        | -7.91       | 1.50       | 185.80    | Vertical     | Passed    |
| 5. | 552.40426MHz    | 39.14                         | -5.66                  | 46.00        | -6.86       | 1.50       | 106.00    | Horizontal   | Passed    |
| 6. | 951.21184MHz    | 37.99                         | 0.02                   | 46.00        | -8.01       | 1.50       | 194.10    | Horizontal   | Passed    |

Overall Graphs:





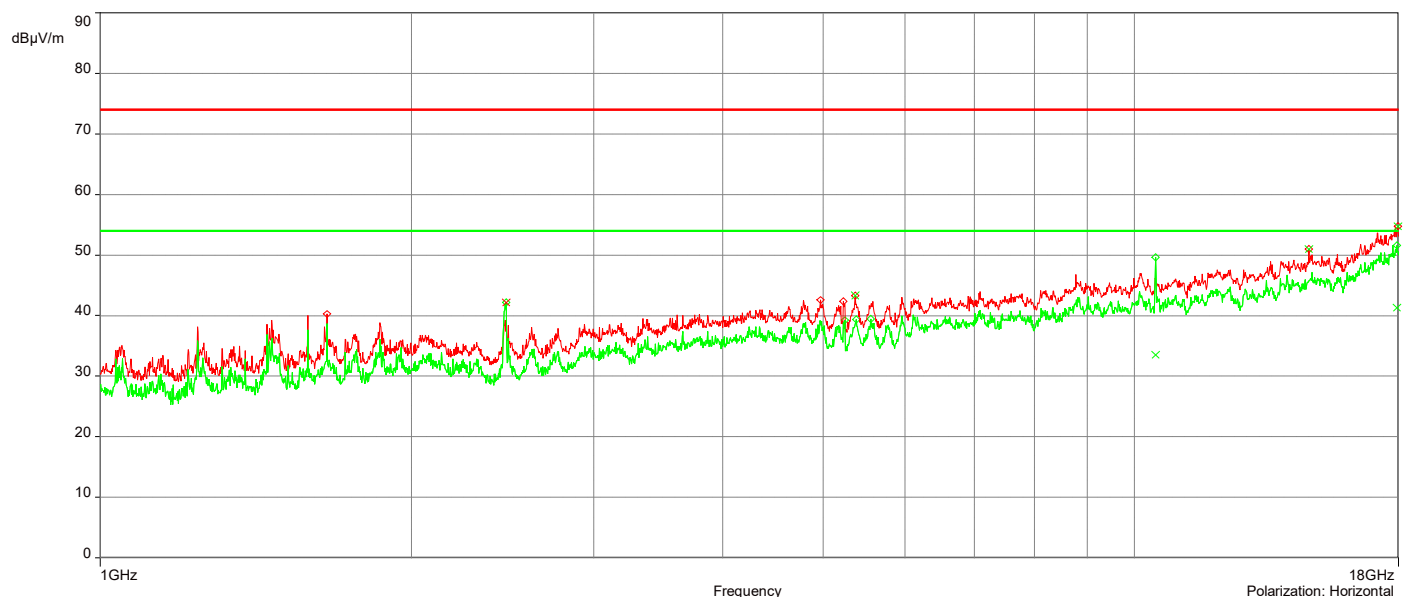
**AH22120901-HAR-054#2\_BT-3DH5-CH78\_2.4G-802.11n-CH11\_5G-802.11a-CH48 1-18GHz**

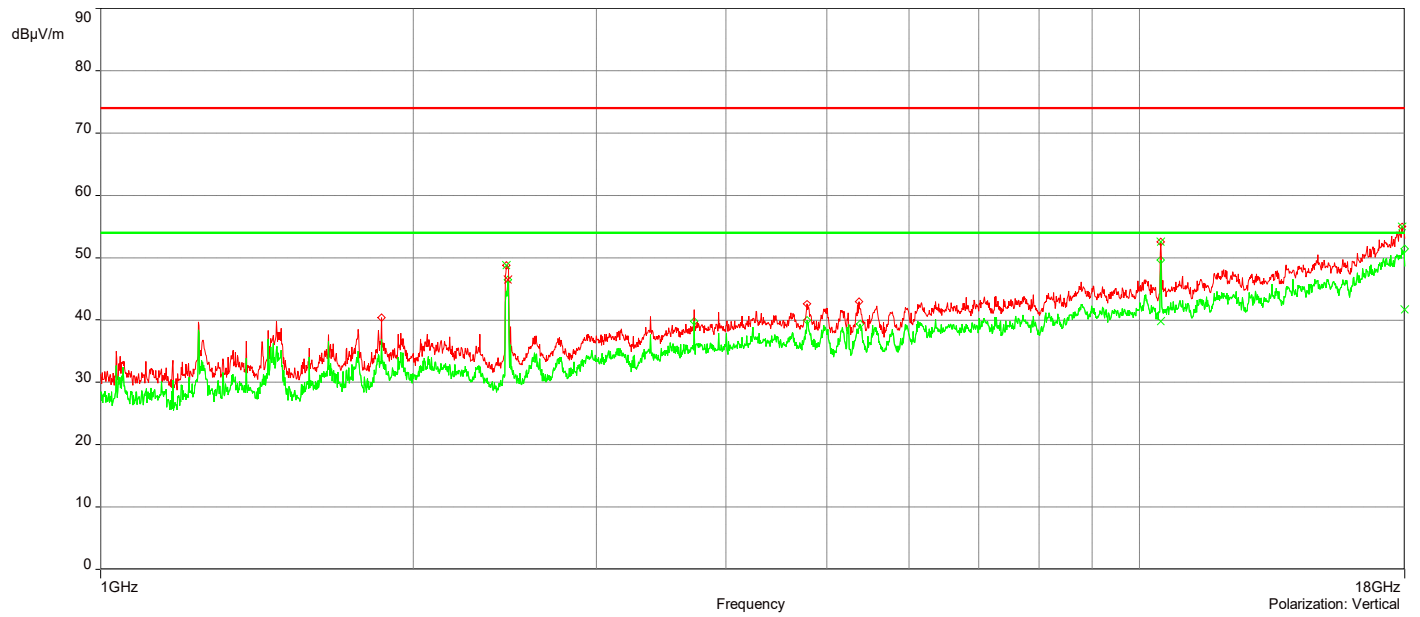
3/1/2023 2:43:11 PM

| No | Frequency (MHz) | Level Peak Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgement |
|----|-----------------|-----------------------------|------------------------|--------------|-------------|------------|-----------|--------------|-----------|
| 1. | 2.4585429GHz    | 48.78                       | -1.37                  | 74.00        | -25.22      | 2.00       | 161.50    | Vertical     | Passed    |
| 2. | 10.479779GHz    | 52.53                       | 9.88                   | 74.00        | -21.47      | 4.00       | 105.70    | Vertical     | Passed    |
| 3. | 17.893497GHz    | 55.03                       | 19.78                  | 74.00        | -18.97      | 1.50       | 235.40    | Vertical     | Passed    |
| 4. | 5.3706285GHz    | 43.26                       | 5.90                   | 74.00        | -30.74      | 3.00       | 182.00    | Horizontal   | Passed    |
| 5. | 14.747404GHz    | 50.96                       | 14.76                  | 74.00        | -23.04      | 1.00       | 253.60    | Horizontal   | Passed    |
| 6. | 17.9885GHz      | 54.72                       | 20.42                  | 74.00        | -19.28      | 1.50       | 63.90     | Horizontal   | Passed    |

| No | Frequency (MHz) | Level Average Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgment |
|----|-----------------|--------------------------------|------------------------|--------------|-------------|------------|-----------|--------------|----------|
| 1. | 2.4655431GHz    | 46.47                          | -1.35                  | 54.00        | -7.53       | 2.00       | 161.50    | Vertical     | Passed   |
| 2. | 10.484779GHz    | 39.81                          | 9.88                   | 54.00        | -14.19      | 4.00       | 75.10     | Vertical     | Passed   |
| 3. | 17.9975GHz      | 41.68                          | 20.64                  | 54.00        | -12.32      | 1.00       | 235.10    | Vertical     | Passed   |
| 4. | 2.4695432GHz    | 42.18                          | -1.18                  | 54.00        | -11.82      | 4.00       | 359.90    | Horizontal   | Passed   |
| 5. | 10.484779GHz    | 33.55                          | 9.86                   | 54.00        | -20.45      | 4.00       | 359.90    | Horizontal   | Passed   |
| 6. | 17.937498GHz    | 41.32                          | 19.93                  | 54.00        | -12.68      | 3.00       | 301.90    | Horizontal   | Passed   |

Overall Graphs:





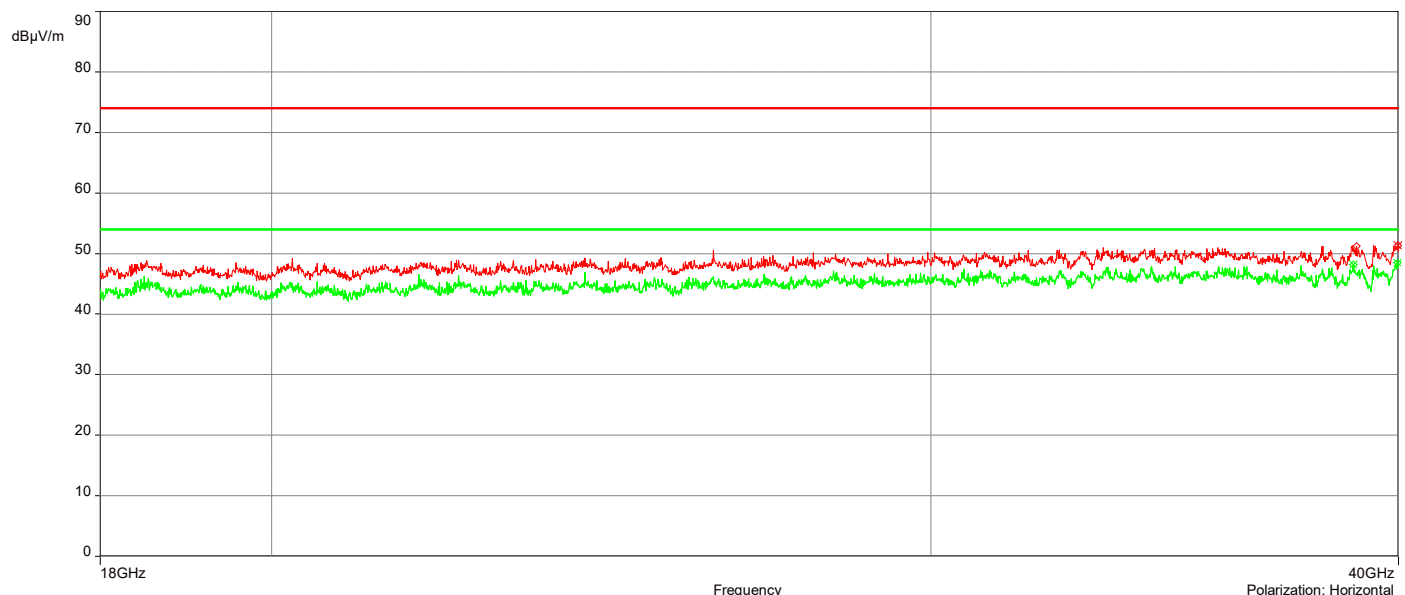
**AH22120901-HAR-054#2\_BT-3DH5-CH78\_2.4G-802.11n-CH11\_5G-802.11a-CH48 18-40GHz**

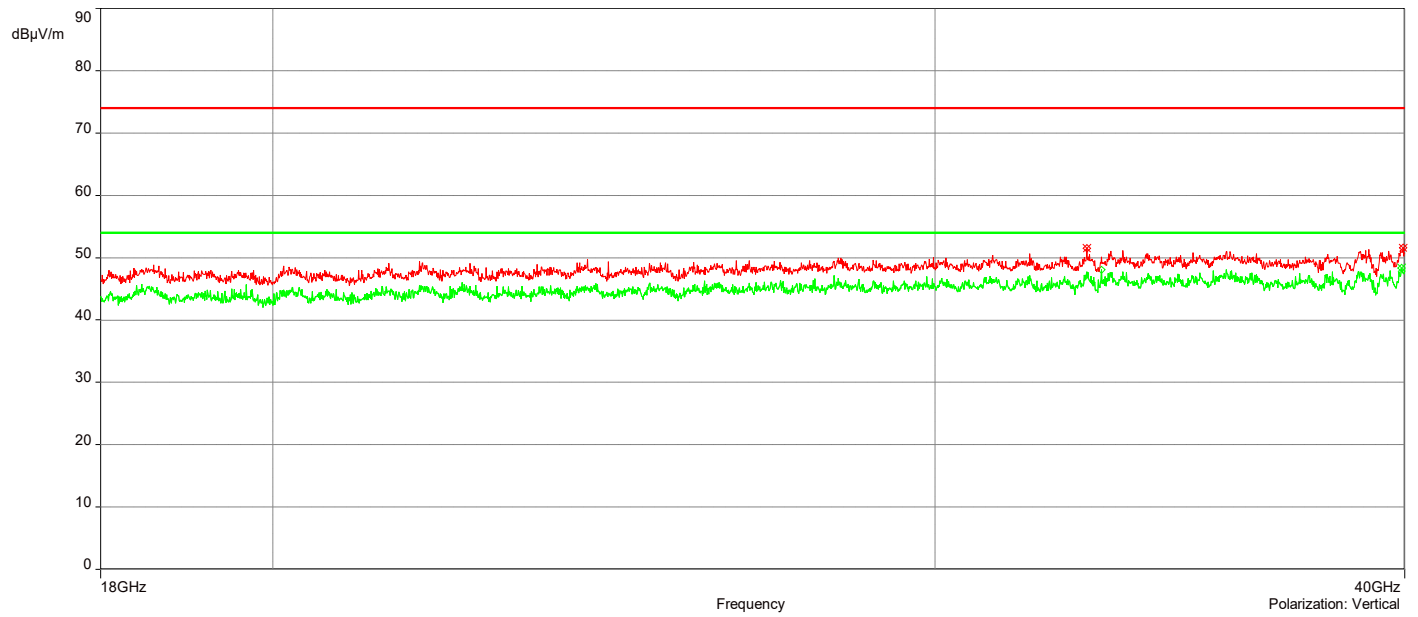
3/1/2023 12:17:44 PM

| No | Frequency (MHz) | Level Peak Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgement |
|----|-----------------|-----------------------------|------------------------|--------------|-------------|------------|-----------|--------------|-----------|
| 1. | 32.922339GHz    | 51.51                       | 6.01                   | 74.00        | -22.49      | 3.97       | 90.00     | Vertical     | Passed    |
| 2. | 39.959499GHz    | 51.60                       | 6.22                   | 74.00        | -22.40      | 4.00       | 112.60    | Vertical     | Passed    |
| 3. | 39.985GHz       | 51.34                       | 6.42                   | 74.00        | -22.66      | 3.58       | 292.60    | Horizontal   | Passed    |

| No | Frequency (MHz) | Level Average Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgment |
|----|-----------------|--------------------------------|------------------------|--------------|-------------|------------|-----------|--------------|----------|
| 1. | 39.926498GHz    | 48.30                          | 6.20                   | 54.00        | -5.70       | 2.71       | 292.60    | Vertical     | Passed   |
| 2. | 38.911475GHz    | 48.21                          | 6.30                   | 54.00        | -5.79       | 2.66       | 292.60    | Horizontal   | Passed   |
| 3. | 39.981GHz       | 48.50                          | 6.41                   | 54.00        | -5.50       | 1.03       | 270.10    | Horizontal   | Passed   |

Overall Graphs:





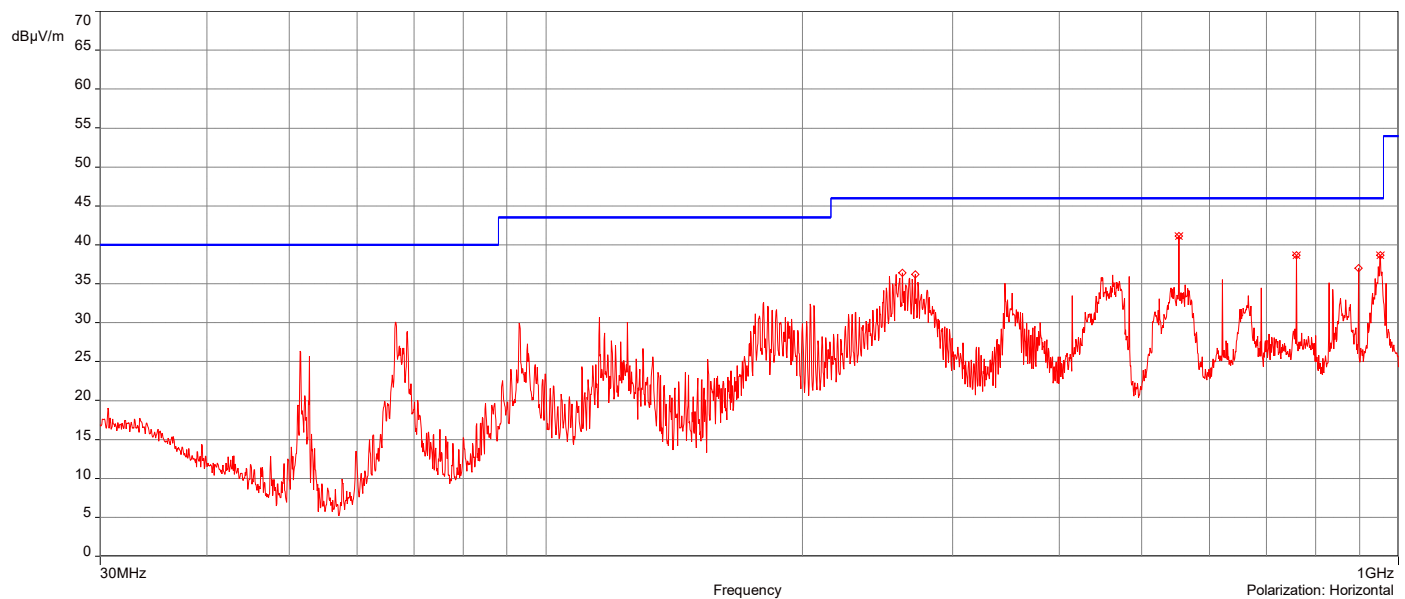
### 4.5.3 WLAN 2.4G + WLAN 5G

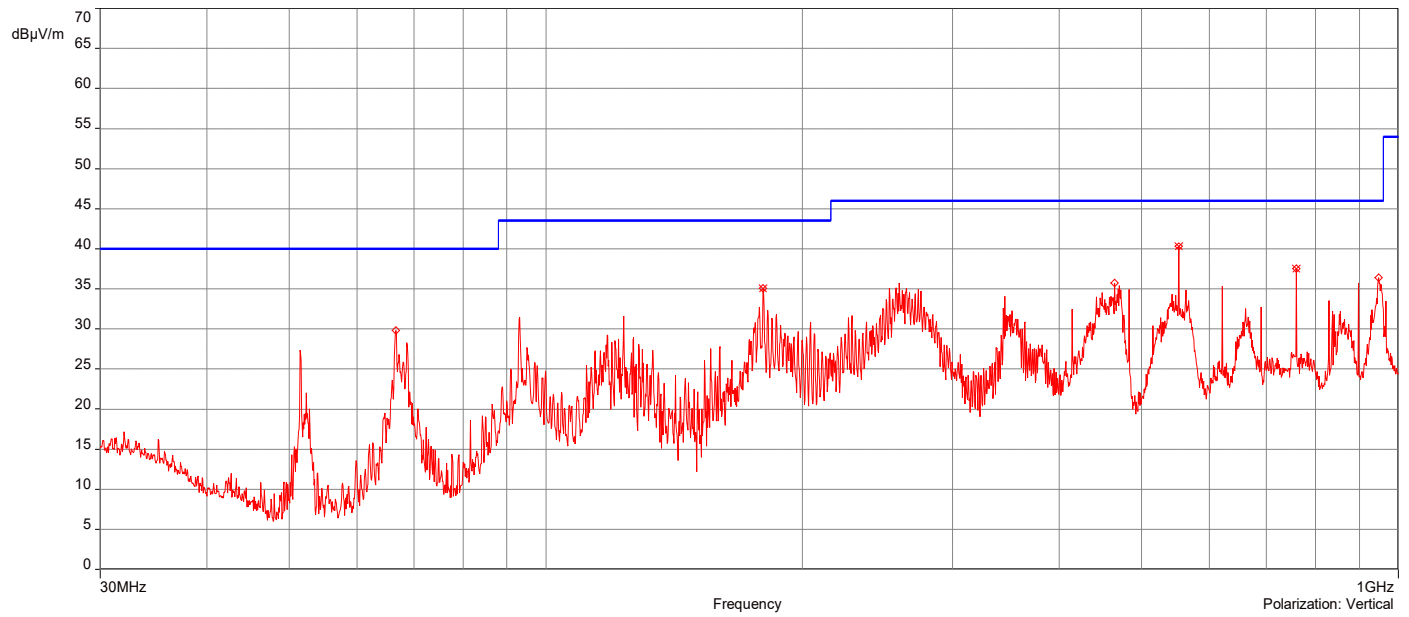
AH22120901-HAR-054#2\_2.4G-802.11n-CH6\_5G-802.11a-CH40\_30MHz-1GHz

3/6/2023 12:19:58 PM

| No | Frequency (MHz) | Level Q-Peak Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgement |
|----|-----------------|-------------------------------|------------------------|--------------|-------------|------------|-----------|--------------|-----------|
| 1. | 179.84528MHz    | 35.10                         | -13.53                 | 43.50        | -8.40       | 2.50       | 331.60    | Vertical     | Passed    |
| 2. | 552.40426MHz    | 40.30                         | -6.60                  | 46.00        | -5.70       | 1.00       | 188.40    | Vertical     | Passed    |
| 3. | 759.59704MHz    | 37.51                         | -3.29                  | 46.00        | -8.49       | 1.25       | 63.80     | Vertical     | Passed    |
| 4. | 552.40426MHz    | 41.10                         | -5.66                  | 46.00        | -4.90       | 1.00       | 177.10    | Horizontal   | Passed    |
| 5. | 759.59704MHz    | 38.70                         | -2.19                  | 46.00        | -7.30       | 1.25       | 63.60     | Horizontal   | Passed    |
| 6. | 951.66833MHz    | 38.68                         | 0.02                   | 46.00        | -7.32       | 1.00       | 341.00    | Horizontal   | Passed    |

#### Overall Graphs:





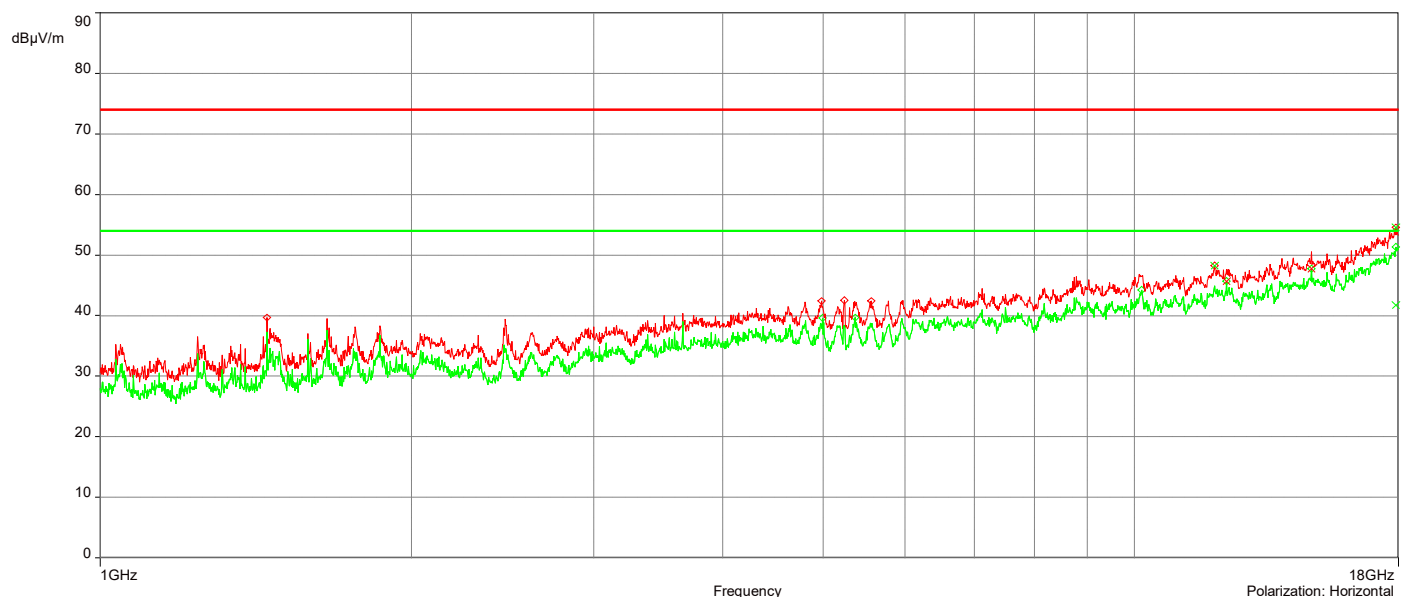
**AH22120901-HAR-054#2\_2.4G-802.11n-CH11\_5G-802.11a-CH48 1-18GHz**

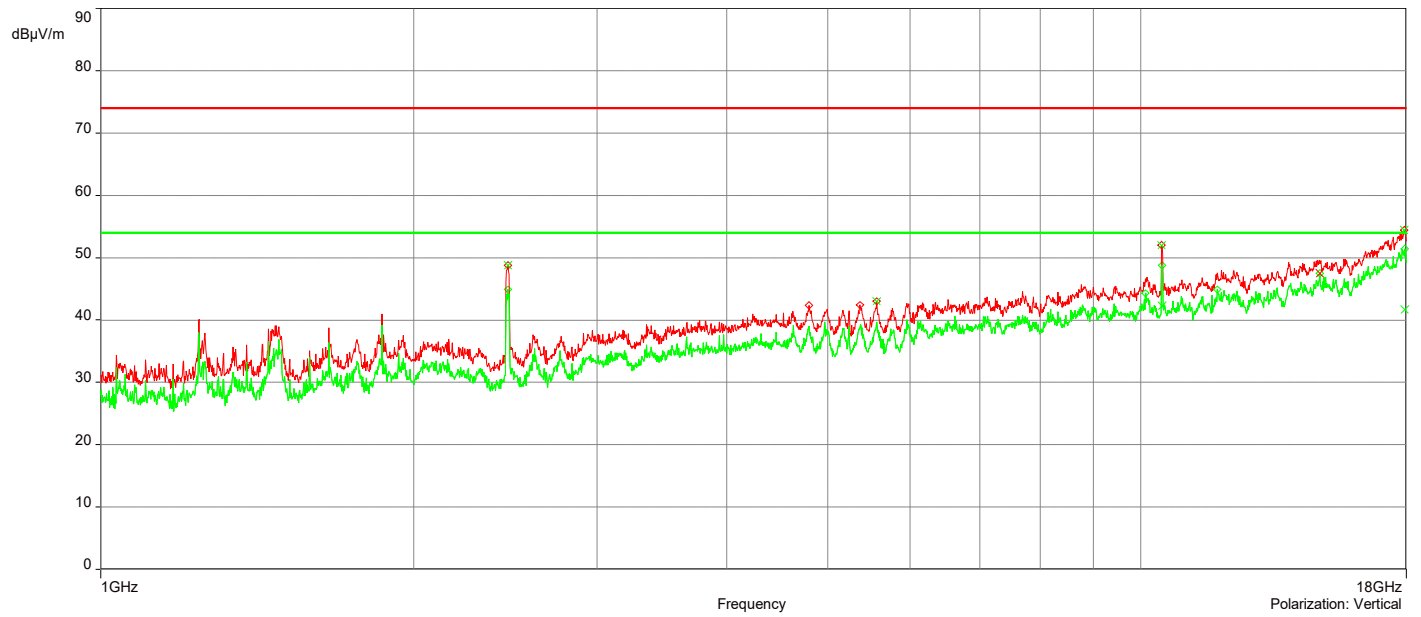
3/1/2023 3:11:39 PM

| No | Frequency (MHz) | Level Peak Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgement |
|----|-----------------|-----------------------------|------------------------|--------------|-------------|------------|-----------|--------------|-----------|
| 1. | 2.4650431GHz    | 48.77                       | -1.35                  | 74.00        | -25.23      | 2.00       | 150.30    | Vertical     | Passed    |
| 2. | 5.5746345GHz    | 43.06                       | 6.08                   | 74.00        | -30.94      | 2.50       | 59.50     | Vertical     | Passed    |
| 3. | 10.470279GHz    | 52.01                       | 9.89                   | 74.00        | -21.99      | 4.00       | 74.50     | Vertical     | Passed    |
| 4. | 17.917498GHz    | 54.43                       | 19.90                  | 74.00        | -19.57      | 3.50       | 192.10    | Vertical     | Passed    |
| 5. | 11.956822GHz    | 48.30                       | 11.84                  | 74.00        | -25.70      | 1.50       | 176.20    | Horizontal   | Passed    |
| 6. | 17.897997GHz    | 54.58                       | 19.73                  | 74.00        | -19.42      | 2.50       | 63.00     | Horizontal   | Passed    |

| No | Frequency (MHz) | Level Average Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgment |
|----|-----------------|--------------------------------|------------------------|--------------|-------------|------------|-----------|--------------|----------|
| 1. | 10.479779GHz    | 42.23                          | 9.88                   | 54.00        | -11.77      | 3.00       | 85.10     | Vertical     | Passed   |
| 2. | 14.870408GHz    | 47.49                          | 14.54                  | 54.00        | -6.51       | 1.50       | 338.10    | Vertical     | Passed   |
| 3. | 17.935498GHz    | 41.66                          | 19.99                  | 54.00        | -12.34      | 1.00       | 323.10    | Vertical     | Passed   |
| 4. | 12.277332GHz    | 45.67                          | 12.01                  | 54.00        | -8.33       | 2.50       | 4.20      | Horizontal   | Passed   |
| 5. | 14.830407GHz    | 47.73                          | 15.02                  | 54.00        | -6.27       | 2.50       | 158.40    | Horizontal   | Passed   |
| 6. | 17.904997GHz    | 41.75                          | 19.77                  | 54.00        | -12.25      | 2.00       | 180.10    | Horizontal   | Passed   |

Overall Graphs:





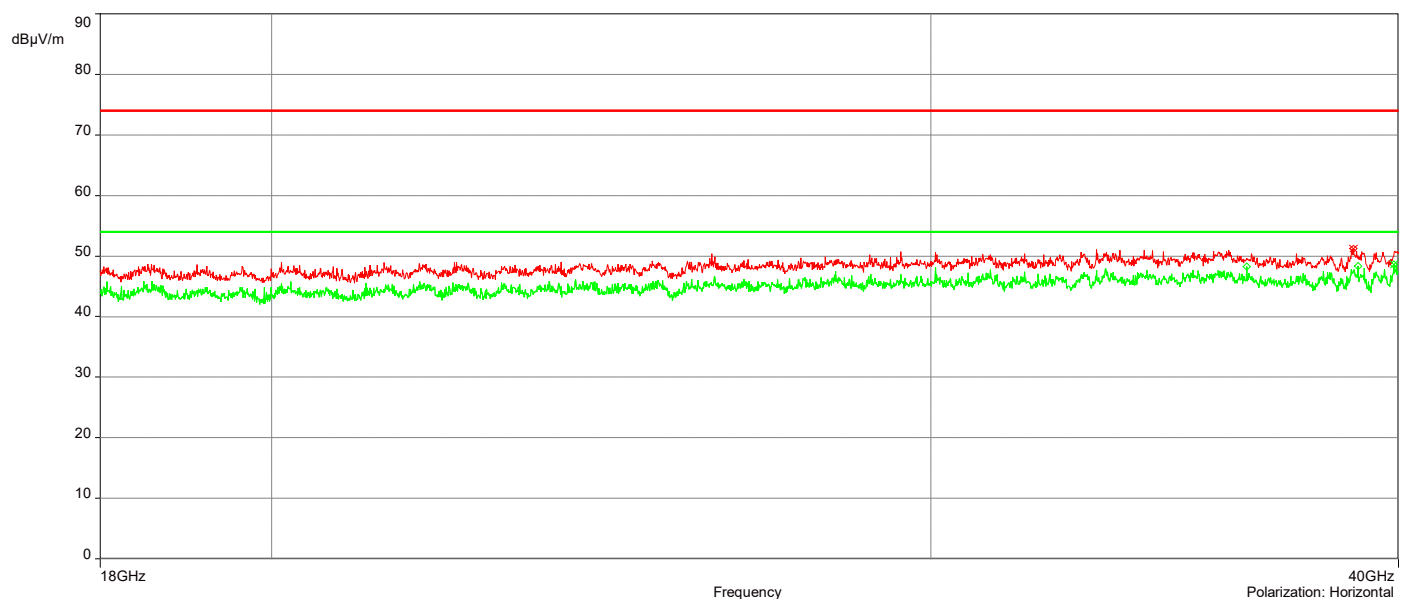
**AH22120901-HAR-054#2\_2.4G-802.11n-CH11\_5G-802.11a-CH48 18-40GHz**

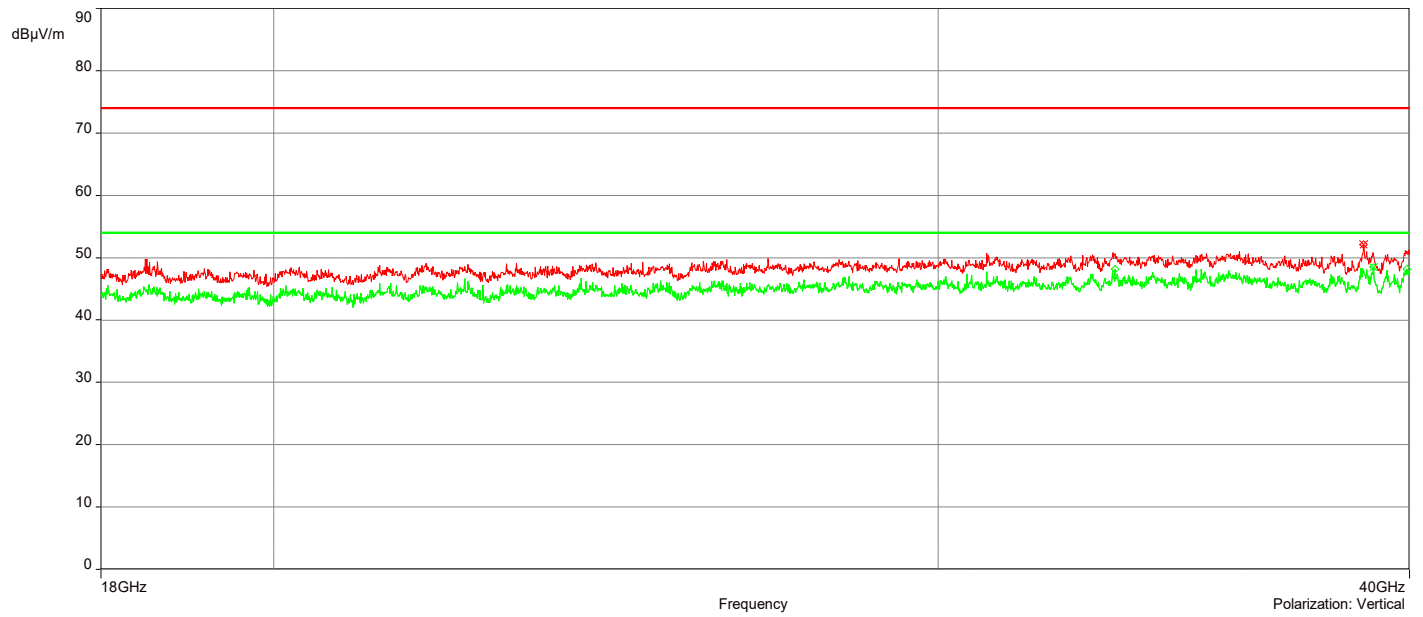
3/1/2023 1:05:25 PM

| No | Frequency (MHz) | Level Peak Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgement |
|----|-----------------|-----------------------------|------------------------|--------------|-------------|------------|-----------|--------------|-----------|
| 1. | 38.897975GHz    | 52.10                       | 6.37                   | 74.00        | -21.90      | 4.00       | 337.40    | Vertical     | Passed    |
| 2. | 38.912975GHz    | 51.22                       | 6.29                   | 74.00        | -22.78      | 3.30       | 247.60    | Horizontal   | Passed    |

| No | Frequency (MHz) | Level Average Reading (dBμV/m) | Correction Factor (dB) | Limit dBμV/m | Margin (dB) | Height (m) | Angle (°) | Polarization | Judgment |
|----|-----------------|--------------------------------|------------------------|--------------|-------------|------------|-----------|--------------|----------|
| 1. | 39.12848GHz     | 48.49                          | 6.01                   | 54.00        | -5.51       | 2.24       | 292.60    | Vertical     | Passed   |
| 2. | 39.889997GHz    | 48.64                          | 6.18                   | 54.00        | -5.36       | 1.03       | 315.10    | Horizontal   | Passed   |

Overall Graphs:





## Document Revisions

| Version | Date       | Modifier        | Changes                                                                                            |
|---------|------------|-----------------|----------------------------------------------------------------------------------------------------|
| 1.0     | 03-14-2023 | Aravind Buddana | <ul style="list-style-type: none"><li>Initial Draft</li></ul>                                      |
| 2.0     | 08-07-2023 | Aravind Buddana | <ul style="list-style-type: none"><li>Updated Radiated Emissions measurement procedures.</li></ul> |

End of document