

# FCC and ISED Test Report

Manufacturer: SkyShips Automotive Ltd.  
Model: G7 Infotainment Headunit



In accordance with FCC 47 CFR Part 15C, FCC 47 CFR Part 15E, FCC 47 CFR Part 22, FCC 47 CFR Part 24 and FCC 47 CFR Part 27  
Technology: (Simultaneous Transmission)

Prepared for: Skyships Automotive Ltd.  
Saling Barn, Piccotts Lane  
Great Saling, Braintree  
CM7 5DW

FCC ID: 2BA3IG7A01233

## COMMERCIAL-IN-CONFIDENCE

Document 75965807-05 Issue 01

| SIGNATURE                                                                                                                   |                    |                      |                  |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|------------------|
|                                                                                                                             |                    |                      |                  |
| NAME                                                                                                                        | JOB TITLE          | RESPONSIBLE FOR      | ISSUE DATE       |
| Matthew Russell                                                                                                             | Chief Engineer     | Authorised Signatory | 20 November 2025 |
| Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules. |                    |                      |                  |
| RESPONSIBLE FOR                                                                                                             | NAME               | DATE                 | SIGNATURE        |
| Testing                                                                                                                     | Mohiuddin Mohammed | 20 November 2025     |                  |

FCC Accreditation: 492497/UK2010 Octagon House, Fareham Test Laboratory

### EXECUTIVE SUMMARY / ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on the test pages A sample of this product was tested to demonstrate limited compliance with FCC 47 CFR Part 15C: 2024, FCC 47 CFR Part 15E: 2024, FCC 47 CFR Part 22: 2024, FCC 47 CFR Part 24: 2024 and FCC 47 CFR Part 27: 2024 for the tests detailed in section 1.3. The sample tested was found to comply with the requirements defined in the applied rules.

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## 1 Report Summary

### 1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

| Issue | Description of Change | Date of Issue |
|-------|-----------------------|---------------|
| 01    | First version         | 20-Nov-2025   |

**Table 1**

### 1.2 Introduction

|                               |                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant                     | Skyships Automotive Ltd.                                                                                                                   |
| Manufacturer                  | Skyships Automotive Ltd.                                                                                                                   |
| Model Number(s)               | G7 Infotainment Headunit                                                                                                                   |
| Serial Number(s)              | 0024580 and 0024581                                                                                                                        |
| Hardware Version(s)           | A1                                                                                                                                         |
| Software Version(s)           | 7.1                                                                                                                                        |
| Number of Samples Tested      | 2                                                                                                                                          |
| Test Specification/Issue/Date | FCC 47 CFR Part 15C: 2024<br>FCC 47 CFR Part 15E: 2024<br>FCC 47 CFR Part 22: 2024<br>FCC 47 CFR Part 24: 2024<br>FCC 47 CFR Part 27: 2024 |
| Test Plan/Issue/Date          | N/A                                                                                                                                        |
| Order Number                  | PO05683                                                                                                                                    |
| Date                          | 16-September-2025                                                                                                                          |
| Date of Receipt of EUT        | 03-October-2025                                                                                                                            |
| Start of Test                 | 03-October-2025                                                                                                                            |
| Finish of Test                | 24-October-2025                                                                                                                            |
| Name of Engineer(s)           | Mohiuddin Mohammed                                                                                                                         |
| Related Document(s)           | ANSI C63.26 (2015)<br>ANSI C63.10 (2020)<br>ANSI C63.4 (2014)<br>KDB 996369 D04 Module Integration Guide v02                               |



### 1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15C: 2024, FCC 47 CFR Part 15E: 2024, FCC 47 CFR Part 22: 2024, FCC 47 CFR Part 24: 2024 and FCC 47 CFR Part 27: 2024 is shown below.

| Section                                                                        | Specification Clause |                    |            |            |           | Test Description                                        | Result | Comments/Base Standard |
|--------------------------------------------------------------------------------|----------------------|--------------------|------------|------------|-----------|---------------------------------------------------------|--------|------------------------|
|                                                                                | Part 15C             | Part 15E           | Part 22    | Part 24    | Part 27   |                                                         |        |                        |
| Configuration and Mode: 2.4 GHz Bluetooth + 2.4 GHz Wi-Fi                      |                      |                    |            |            |           |                                                         |        |                        |
| 2.1                                                                            | 15.247(d) & 15.209   | -                  | -          | -          | -         | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   |                        |
| Configuration and Mode: 2.4 GHz Bluetooth + 5 GHz Wi-Fi                        |                      |                    |            |            |           |                                                         |        |                        |
| 2.1                                                                            | 15.247(d) & 15.209   | 15.407(b) & 15.209 | -          | -          | -         | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   |                        |
| Configuration and Mode: LTE Cat-M FDD B2 (1900 MHz) + Bluetooth + 5 GHz Wi-Fi  |                      |                    |            |            |           |                                                         |        |                        |
| 2.1                                                                            | 15.247(d) & 15.209   | 15.407(b) & 15.209 | -          | 24.238 (a) | -         | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   |                        |
| Configuration and Mode: LTE Cat-M FDD B5 (850 MHz) + Bluetooth + 2.4 GHz Wi-Fi |                      |                    |            |            |           |                                                         |        |                        |
| 2.1                                                                            | 15.247(d) & 15.209   | -                  | 22.917 (a) | -          | -         | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   |                        |
| Configuration and Mode: LTE Cat-M FDD B4 (1700 MHz) + Bluetooth + 5 GHz Wi-Fi  |                      |                    |            |            |           |                                                         |        |                        |
| 2.1                                                                            | 15.247(d) & 15.209   | 15.407(b) & 15.209 | -          | -          | 27.53 (h) | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   |                        |

**Table 2**



## 1.4 Customer Supplied Form

### Equipment Description

|                                                                                                                                                     |                                 |                                                                                                                                                                                                                                                                        |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Technical Description:<br>(Please provide a brief description of the intended use of the equipment including the technologies the product supports) |                                 | Automotive Infotainment Headunit - A vehicle infotainment controller containing FM receiver, GPS, and Bluetooth. The unit has no direct user interface and is controlled remotely from controls in the vehicle. It has three video outputs that drive remote displays. |                                           |
| Manufacturer:                                                                                                                                       |                                 | Skyships Automotive Limited                                                                                                                                                                                                                                            |                                           |
| Model:                                                                                                                                              |                                 | G7 Infotainment Headunit                                                                                                                                                                                                                                               |                                           |
| Part Number:                                                                                                                                        |                                 | A-01233                                                                                                                                                                                                                                                                |                                           |
| Hardware Version:                                                                                                                                   |                                 | A1                                                                                                                                                                                                                                                                     |                                           |
| Software Version:                                                                                                                                   |                                 | 7.1                                                                                                                                                                                                                                                                    |                                           |
| FCC ID of the product under test – <a href="#">see guidance here</a>                                                                                |                                 | 2BA3IG7A01233                                                                                                                                                                                                                                                          |                                           |
| IC ID of the product under test – <a href="#">see guidance here</a>                                                                                 |                                 | N/A                                                                                                                                                                                                                                                                    |                                           |
| Device Category                                                                                                                                     | Mobile <input type="checkbox"/> | Portable <input type="checkbox"/>                                                                                                                                                                                                                                      | Fixed <input checked="" type="checkbox"/> |
| Equipment is fitted with an Audio Low Pass Filter                                                                                                   |                                 | Yes <input type="checkbox"/>                                                                                                                                                                                                                                           | No <input checked="" type="checkbox"/>    |

### Intentional Radiators

| Technology                                                                                              | Bluetooth (BR+EDR) | 2.4 GHz Wi-Fi  | 5 GHz Wi-Fi | 5 GHz Wi-Fi | GSM-1800    | GSM-850   |
|---------------------------------------------------------------------------------------------------------|--------------------|----------------|-------------|-------------|-------------|-----------|
| Frequency Range (MHz to MHz)                                                                            | 2400 - 2483.5      | 2400 - 2483.5  | 5150 - 5250 | 5730 - 5835 | 1850 - 1910 | 824 - 849 |
| Conducted Declared Output Power (dBm)                                                                   | 11                 | 18             | 14          | 14          | 32.06       | 29.24     |
| Antenna Gain (dBi)                                                                                      | -0.1               | -0.1           | 5.1         | 5.1         | 3.0         | 3.0       |
| Supported Bandwidth(s) (MHz)<br>(e.g. 1 MHz, 20 MHz, 40 MHz)                                            | 1                  | 20             | 20,40,80    | 20,40,80    |             |           |
| Modulation Scheme(s)<br>(e.g. GFSK, QPSK etc)                                                           | DQPSK              | DSSS/CCK, OFDM | OFDM        | OFDM        | GMSK        | GMSK      |
| ITU Emission Designator<br>( <a href="#">see guidance here</a> )<br>(not mandatory for Part 15 devices) | Various            | Various        | Various     | Various     | Various     | Various   |
| Bottom Frequency (MHz)                                                                                  | 2402               | 2401           | 5180        | 5745        | 1850        | 824       |
| Middle Frequency (MHz)                                                                                  |                    |                |             |             |             |           |
| Top Frequency (MHz)                                                                                     | 2480               | 2473           | 5240        | 5825        | 1910        | 849       |

| Technology                                                                                              | HSPA+ 2     | HSPA+ 4     | HSPA+ 5   | LTE 2                 | LTE 4                 | LTE 5         |
|---------------------------------------------------------------------------------------------------------|-------------|-------------|-----------|-----------------------|-----------------------|---------------|
| Frequency Range (MHz to MHz)                                                                            | 1850 - 1910 | 1710 - 1755 | 824 - 849 | 1850 - 1910           | 1710 - 1755           | 824 - 849     |
| Conducted Declared Output Power (dBm)                                                                   | 23.14       | 23.14       | 22.87     | 23.14                 | 23.14                 | 22.87         |
| Antenna Gain (dBi)                                                                                      | 3.0         | 3.0         | 3.0       | 3.0                   | 3.0                   | 3.0           |
| Supported Bandwidth(s) (MHz)<br>(e.g. 1 MHz, 20 MHz, 40 MHz)                                            |             |             |           | 1.4, 3, 5, 10, 15, 20 | 1.4, 3, 5, 10, 15, 20 | 1.4, 3, 5, 10 |
| Modulation Scheme(s)<br>(e.g. GFSK, QPSK etc)                                                           | 8PSK        | 8PSK        | 8PSK      | OFDM                  | OFDM                  | OFDM          |
| ITU Emission Designator<br>( <a href="#">see guidance here</a> )<br>(not mandatory for Part 15 devices) | Various     | Various     | Various   | Various               | Various               | Various       |
| Bottom Frequency (MHz)                                                                                  | 1850        | 1710        | 824       | 1850                  | 1710                  | 824           |
| Middle Frequency (MHz)                                                                                  |             |             |           |                       |                       |               |
| Top Frequency (MHz)                                                                                     | 1910        | 1755        | 849       | 1910                  | 1755                  | 849           |

| Technology                                                                                              | LTE 7         | LTE 12        |  |  |  |  |
|---------------------------------------------------------------------------------------------------------|---------------|---------------|--|--|--|--|
| Frequency Range (MHz to MHz)                                                                            | 2500 - 2570   | 699 - 716     |  |  |  |  |
| Conducted Declared Output Power (dBm)                                                                   | 22.68         | 22.97         |  |  |  |  |
| Antenna Gain (dBi)                                                                                      | 3.0           | 3.0           |  |  |  |  |
| Supported Bandwidth(s) (MHz)<br>(e.g. 1 MHz, 20 MHz, 40 MHz)                                            | 5, 10, 15, 20 | 1.4, 3, 5, 10 |  |  |  |  |
| Modulation Scheme(s)<br>(e.g. GFSK, QPSK etc)                                                           | OFDM          | OFDM          |  |  |  |  |
| ITU Emission Designator<br>( <a href="#">see guidance here</a> )<br>(not mandatory for Part 15 devices) | Various       | Various       |  |  |  |  |
| Bottom Frequency (MHz)                                                                                  | 2500          | 699           |  |  |  |  |
| Middle Frequency (MHz)                                                                                  |               |               |  |  |  |  |
| Top Frequency (MHz)                                                                                     | 2570          | 716           |  |  |  |  |



### Un-intentional Radiators

|                                                                                                         |          |
|---------------------------------------------------------------------------------------------------------|----------|
| Highest frequency generated or used in the device or on which the device operates or tunes              | 2.133GHz |
| Lowest frequency generated or used in the device or on which the device operates or tunes               | 400kHz   |
| Class A Digital Device (Use in commercial, industrial or business environment) <input type="checkbox"/> |          |
| Class B Digital Device (Use in residential environment only) <input checked="" type="checkbox"/>        |          |

### AC Power Source

|                                                                            |  |    |
|----------------------------------------------------------------------------|--|----|
| AC supply frequency:                                                       |  | Hz |
| Voltage                                                                    |  | V  |
| Max current:                                                               |  | A  |
| Single Phase <input type="checkbox"/> Three Phase <input type="checkbox"/> |  |    |

### DC Power Source

|                        |  |   |
|------------------------|--|---|
| Nominal voltage:       |  | V |
| Extreme upper voltage: |  | V |
| Extreme lower voltage: |  | V |
| Max current:           |  | A |

### Battery Power Source

|                                                                                                                                                                                                                   |                |                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------|
| Voltage:                                                                                                                                                                                                          | 13.7           | V                                             |
| End-point voltage:                                                                                                                                                                                                | 9.5            | V (Point at which the battery will terminate) |
| Alkaline <input type="checkbox"/> Leclanche <input type="checkbox"/> Lithium <input type="checkbox"/> Nickel Cadmium <input type="checkbox"/> Lead Acid* <input checked="" type="checkbox"/> *(Vehicle regulated) |                |                                               |
| Other <input type="checkbox"/>                                                                                                                                                                                    | Please detail: |                                               |

### Charging

|                                           |                                                                     |
|-------------------------------------------|---------------------------------------------------------------------|
| Can the EUT transmit whilst being charged | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
|-------------------------------------------|---------------------------------------------------------------------|

### Temperature

|                      |     |    |
|----------------------|-----|----|
| Minimum temperature: | -40 | °C |
| Maximum temperature: | 70  | °C |

### Cable Loss

|                                          |                                                                                         |    |
|------------------------------------------|-----------------------------------------------------------------------------------------|----|
| Adapter Cable Loss<br>(Conducted sample) | This will depend on frequency. We can estimate based on cable specification and length. | dB |
|------------------------------------------|-----------------------------------------------------------------------------------------|----|



### Antenna Characteristics

|                                                       |       |  |                 |     |     |
|-------------------------------------------------------|-------|--|-----------------|-----|-----|
| Antenna connector <input checked="" type="checkbox"/> |       |  | State impedance | 50  | Ohm |
| Temporary antenna connector <input type="checkbox"/>  |       |  | State impedance | N/A | Ohm |
| Integral antenna <input type="checkbox"/>             | Type: |  | Gain            |     | dBi |
| External antenna <input checked="" type="checkbox"/>  | Type: |  | Gain            |     | dBi |

For external antenna only:  
 Standard Antenna Jack ☐ If yes, describe how user is prohibited from changing antenna (if not professional installed):  
 Equipment is only ever professionally installed ☒  
 Non-standard Antenna Jack ☐  
 All part 15 applications will need to show how the antenna gain was derived either from a manufacturer data sheet or a measurement. Where the gain of the antenna is inherently accounted for as a result of the measurement, such as field strength measurements on a part 15.249 or 15.231 device, so the gain does not necessarily need to be verified. However, enough information regarding the construction of the antenna shall be provided. Such information maybe photographs, length of wire antenna etc.

### Ancillaries (if applicable)

|               |  |                    |  |
|---------------|--|--------------------|--|
| Manufacturer: |  | Part Number:       |  |
| Model:        |  | Country of Origin: |  |

I hereby declare that the information supplied is correct and complete.

Name: Adam Dickison  
 Position held: Systems Engineer  
 Date: 24 October 2025



## 1.5 Product Information

### 1.5.1 Technical Description

Automotive Infotainment Headunit - A vehicle infotainment controller containing FM receiver, GPS, and Bluetooth. The unit has no direct user interface and is controlled remotely from controls in the vehicle. It has three video outputs that drive remote displays.

## 1.6 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

## 1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

| Modification State                                      | Description of Modification still fitted to EUT | Modification Fitted By | Date Modification Fitted |
|---------------------------------------------------------|-------------------------------------------------|------------------------|--------------------------|
| Model: G7 Infotainment Headunit, Serial Number: 0024580 |                                                 |                        |                          |
| 0                                                       | As supplied by the customer                     | Not Applicable         | Not Applicable           |
| Model: G7 Infotainment Headunit, Serial Number: 0024581 |                                                 |                        |                          |
| 0                                                       | As supplied by the customer                     | Not Applicable         | Not Applicable           |

**Table 3**



## 1.8 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

| Test Name                                                                      | Name of Engineer(s) | Accreditation |
|--------------------------------------------------------------------------------|---------------------|---------------|
| Configuration and Mode: 2.4 GHz Bluetooth + 2.4 GHz Wi-Fi                      |                     |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                        | Mohiuddin Mohammed  | UKAS          |
| Configuration and Mode: 2.4 GHz Bluetooth + 5 GHz Wi-Fi                        |                     |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                        | Mohiuddin Mohammed  | UKAS          |
| Configuration and Mode: LTE Cat-M FDD B2 (1900 MHz) + Bluetooth + 5 GHz Wi-Fi  |                     |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                        | Mohiuddin Mohammed  | UKAS          |
| Configuration and Mode: LTE Cat-M FDD B5 (850 MHz) + Bluetooth + 2.4 GHz Wi-Fi |                     |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                        | Mohiuddin Mohammed  | UKAS          |
| Configuration and Mode: LTE Cat-M FDD B4 (1700 MHz) + Bluetooth + 5 GHz Wi-Fi  |                     |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                        | Mohiuddin Mohammed  | UKAS          |

**Table 4**

Laboratory Address: TÜV SÜD, Octagon House,  
Concorde Way, Fareham, Hampshire,  
PO15 5RL, United Kingdom

## 2 Test Details

### 2.1 Radiated Spurious Emissions (Simultaneous Transmission)

#### 2.1.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247(d) & 15.209  
FCC 47 CFR Part 15E, Clause 15.407(b) & 15.209  
FCC 47 CFR Part 22, Clause 22.917(a)  
FCC 47 CFR Part 24, Clause 24.238(a)  
FCC 47 CFR Part 27, Clause 27.53(h)

#### 2.1.2 Equipment Under Test and Modification State

Model: G7 Infotainment Headunit, S/N: 0024580 - Modification State 0  
Model: G7 Infotainment Headunit, S/N: 0024581 - Modification State 0

#### 2.1.3 Date of Test

03-October-2025 to 24-October-2025

#### 2.1.4 Test Method

A preliminary profile of the Radiated Spurious Emissions was obtained up to the 5th harmonic of the lowest intentional transmitter, as required by KDB 996369 D04, clause 3.2, by operating the EUT on a remotely controlled turntable within a semi-anechoic chamber. Emission measurements were performed on the worst-case modulation and channel per frequency range as shown in the original filing as per KDB 996369 D04 clause 3.4(b).

Flat and UpRight positions was chosen based on the emission results with the least margin from the module test report.

Ports on the EUT were terminated with loads as described in ANSI C63.4 clause 6.2.4. For EUT's with multiple connectors of the same type, additional interconnecting cables were connected, and pre-scans performed to determine whether the level of the emissions were increased by >2 dB.

Measurements of emissions from the EUT were obtained with the Measurement Antenna in both Horizontal and Vertical Polarisations. The profiling produced a list of the worst-case emissions together with the EUT azimuth and antenna polarisation.

Testing was performed in accordance with ANSI C63.26, Clause 5.5.

Prescans and final measurements were performed using the direct field strength method. Field strength measurements were performed and then converted to Equivalent Power Measurements in accordance with ANSI C63.26, Clause 5.2.7 equation c)

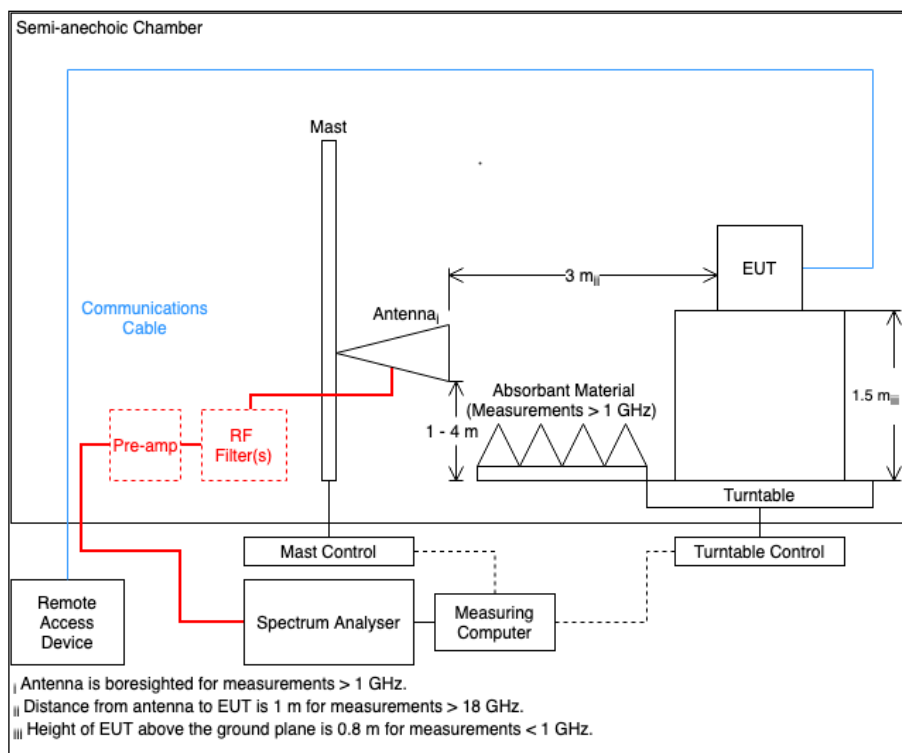
Example calculation:

$E \text{ (dBuV/m)} + 20\log(d) - 104.8 = \text{EIRP (dBm)}$  where (d) is the measurement distance.

$82.2 \text{ (dBuV/m)} + 20\log(3) - 104.8 = \text{EIRP (dBm)}$

$-13.0 = \text{EIRP (dBm)}$

The EUT was powered by an external power supply at 12 V DC.



|                     |                |
|---------------------|----------------|
| Ambient Temperature | 21.6 – 22.7 °C |
| Relative Humidity   | 33.6 - 52.8 %  |

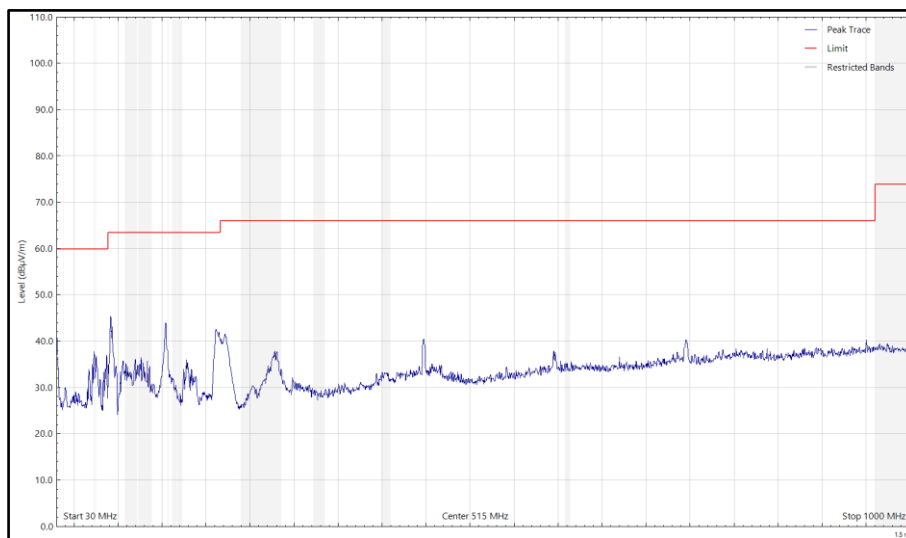
## 2.1.7 Test Results

### 2.4 GHz Bluetooth + 2.4 GHz Wi-Fi

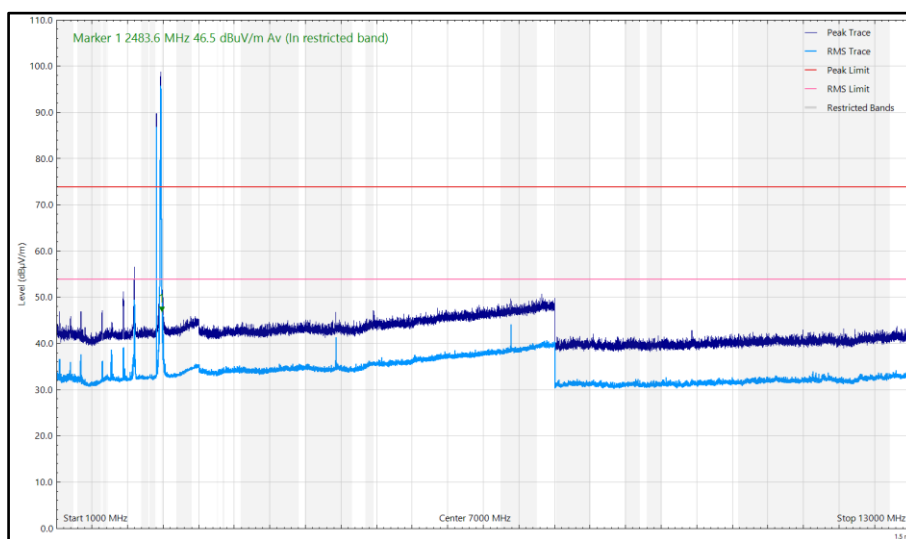
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|-----------|-----------|-------------|--------------|
| 72.876          | 52.21                | 60.00                | -7.79       | Peak      | 1         | 152         | Vertical     |
| 2483.559        | 47.48                | 54.00                | -6.52       | CISPR Avg | 40        | 321         | Vertical     |
| 2483.609        | 46.50                | 54.00                | -7.50       | CISPR Avg | 153       | 161         | Horizontal   |

**Table 5 - SIMTX\_BT\_2.4GWi-Fi\_Flat, 2402MHz+2462MHz, 1 to 13 GHz**

No other emissions found within 10 dB of the limit.



**Figure 2 - SIMTX\_BT\_2.4GWi-Fi\_Flat, 2402MHz+2462MHz, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 3 - SIMTX\_BT\_2.4GWi-Fi\_Flat, 2402MHz+2462MHz, 1 GHz to 13 GHz, Horizontal**

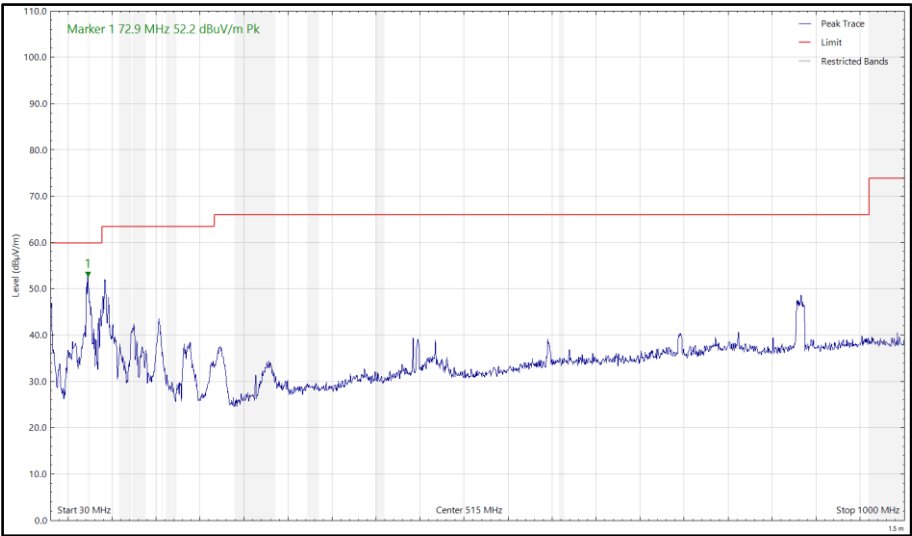


Figure 4 - SIMTX\_BT\_2.4GWi-Fi\_Flat, 2402MHz+2462MHz, 30 MHz to 1 GHz, Vertical (Peak)

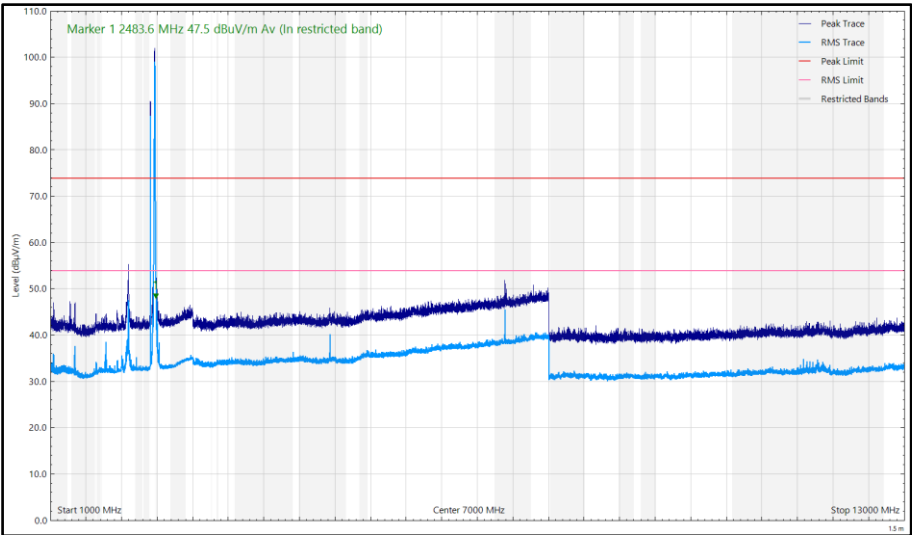
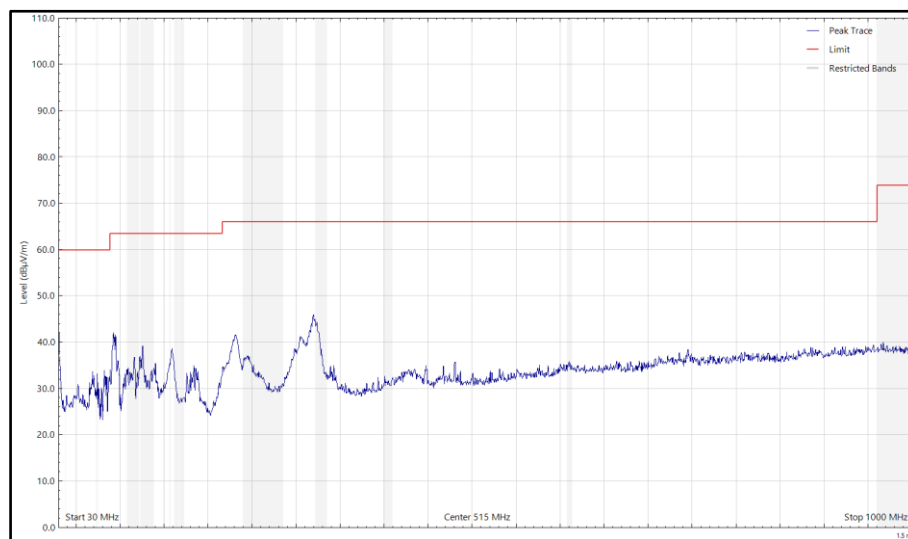


Figure 5 - SIMTX\_BT\_2.4GWi-Fi\_Flat, 2402MHz+2462MHz, 1 GHz to 13 GHz, Vertical

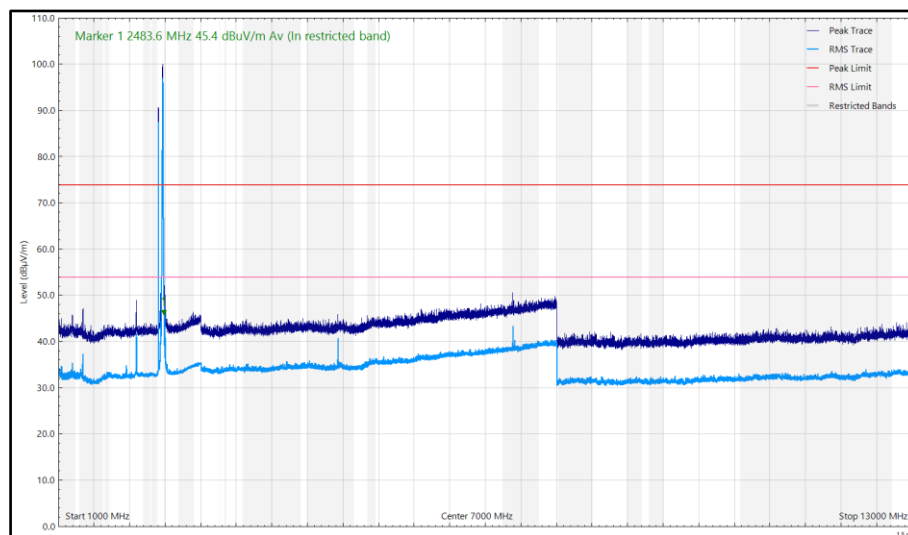
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 73.324          | 53.53          | 60.00          | -6.47       | Peak      | 3         | 150         | Vertical     |
| 2483.591        | 47.28          | 54.00          | -6.72       | CISPR Avg | 41        | 153         | Vertical     |
| 2483.609        | 45.38          | 54.00          | -8.62       | CISPR Avg | 312       | 155         | Horizontal   |
| 7385.285        | 44.76          | 54.00          | -9.24       | CISPR Avg | 156       | 263         | Vertical     |

**Table 6 - SIMTX\_BT\_2.4GWi-Fi\_Upright, 2402MHz+2462MHz, 1 to 13 GHz**

No other emissions found within 10 dB of the limit.



**Figure 6 - SIMTX\_BT\_2.4GWi-Fi\_Upright, 2402MHz+2462MHz, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 7 - SIMTX\_BT\_2.4GWi-Fi\_Upright, 2402MHz+2462MHz, 1 GHz to 13 GHz, Horizontal**

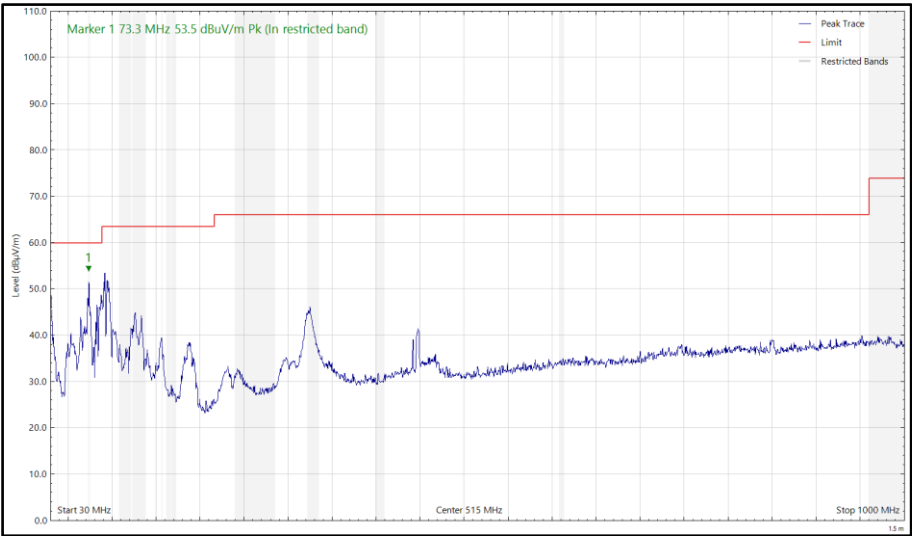


Figure 8 - SIMTX\_BT\_2.4GWi-Fi\_Upright, 2402MHz+2462MHz, 30 MHz to 1 GHz, Vertical (Peak)

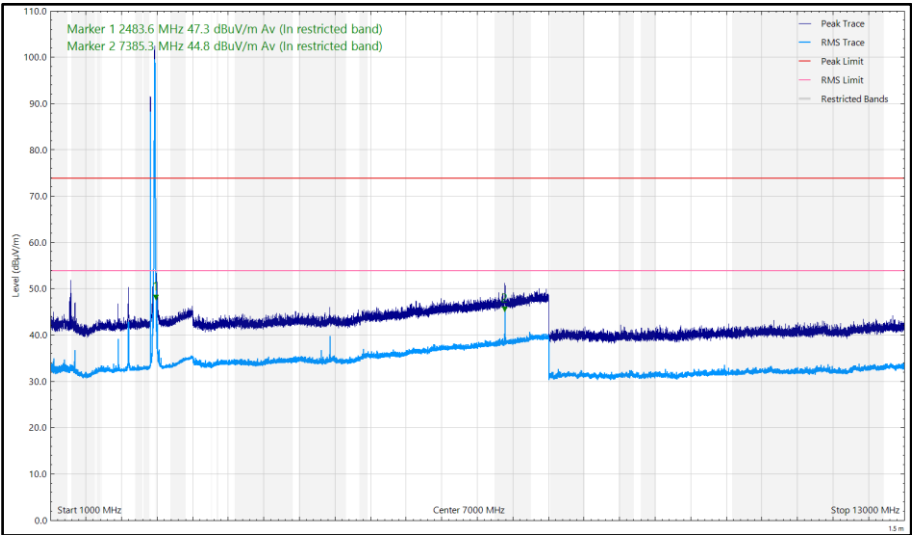


Figure 9 - SIMTX\_BT\_2.4GWi-Fi\_Upright, 2402MHz+2462MHz, 1 GHz to 13 GHz, Vertical

FCC 47 CFR Part 15C

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

| Clause          | Limit                                                                     |
|-----------------|---------------------------------------------------------------------------|
| Part 15 247 (d) | -20 dBc / -30 dBc                                                         |
| Part 15.209     | Peak: 74 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz) |

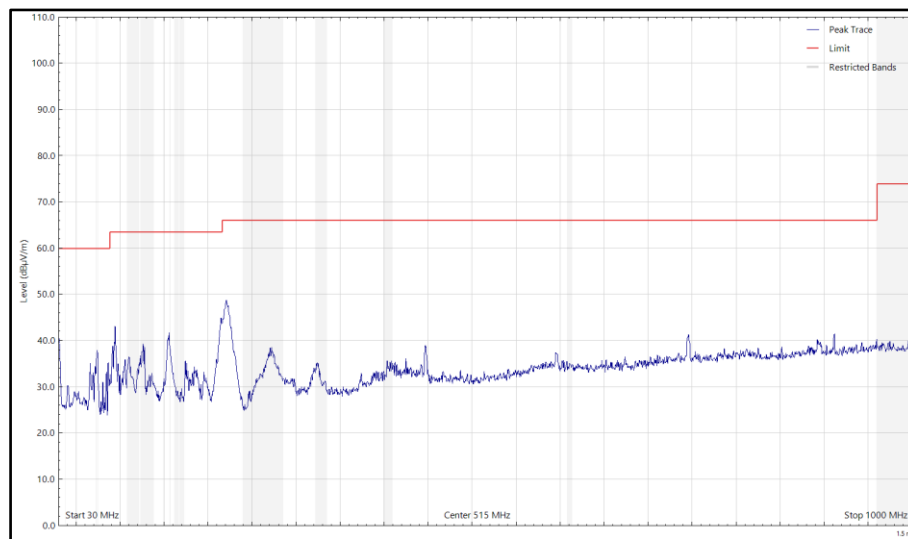
Table 7

## 2.4 GHz Bluetooth + 5 GHz Wi-Fi

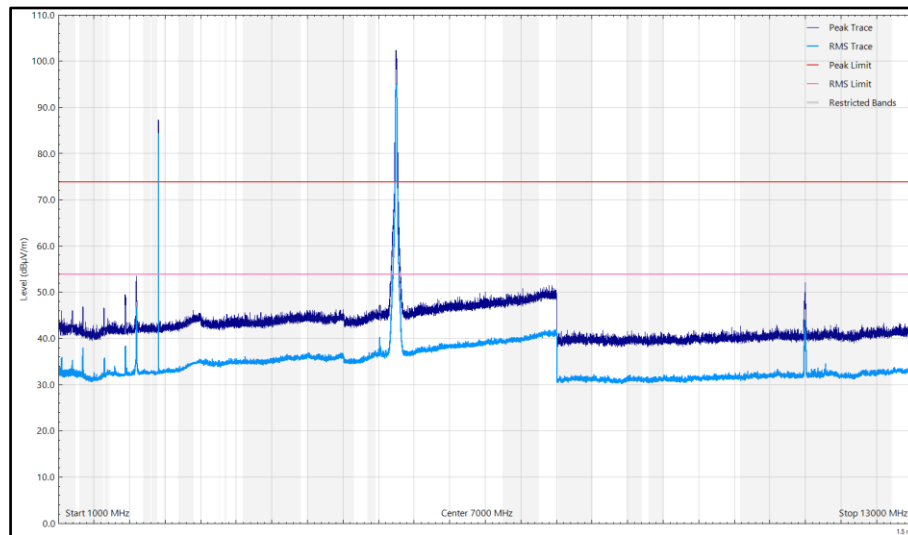
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| *               |                      |                      |             |          |           |             |              |

**Table 8 - SIMTX\_BT\_5GWi-Fi\_Flat, 2402MHz+5745MHz, 1 to 13 GHz**

\*No emissions found within 10 dB of the limit.



**Figure 10 - SIMTX\_BT\_5GWi-Fi\_Flat, 2402MHz+5745MHz, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 11 - SIMTX\_BT\_5GWi-Fi\_Flat, 2402MHz+5745MHz, 1 GHz to 13 GHz, Horizontal**

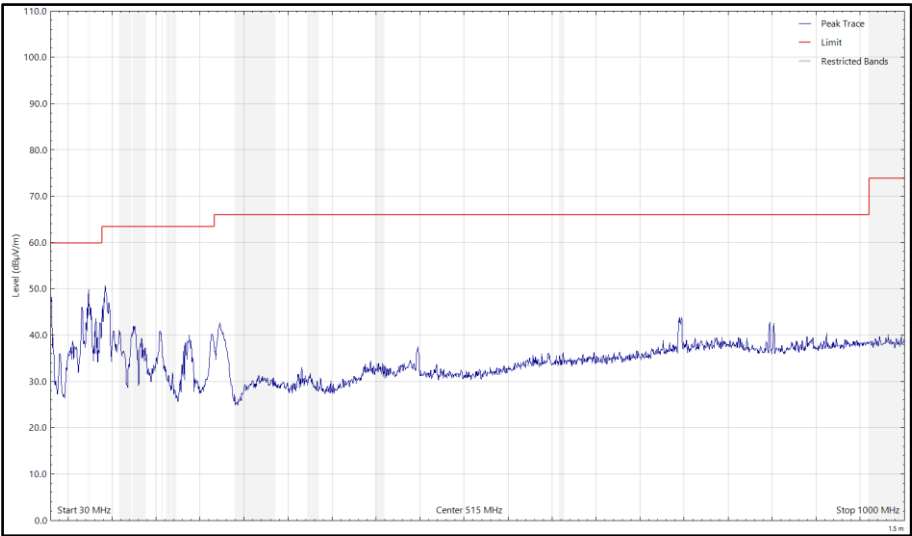


Figure 12 - SIMTX\_BT\_5GWi-Fi\_Flat, 2402MHz+5745MHz, 30 MHz to 1 GHz, Vertical (Peak)

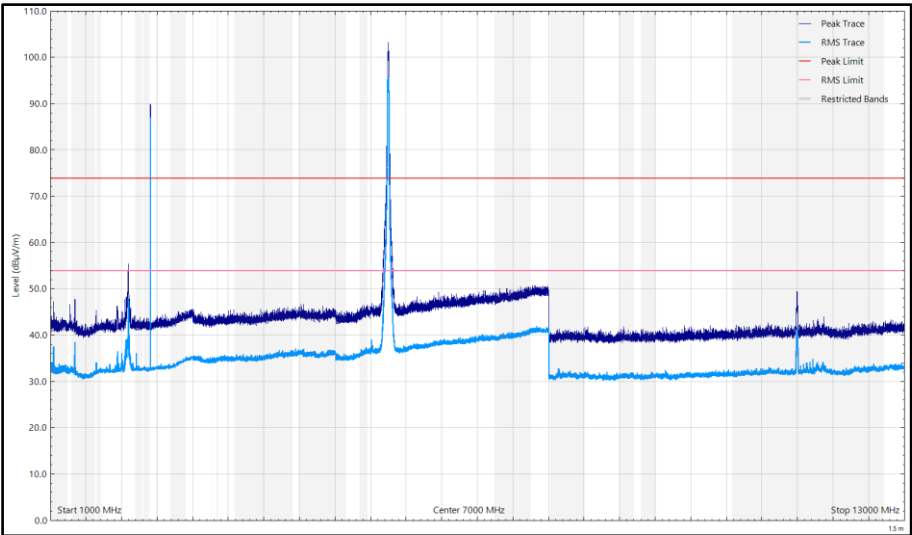
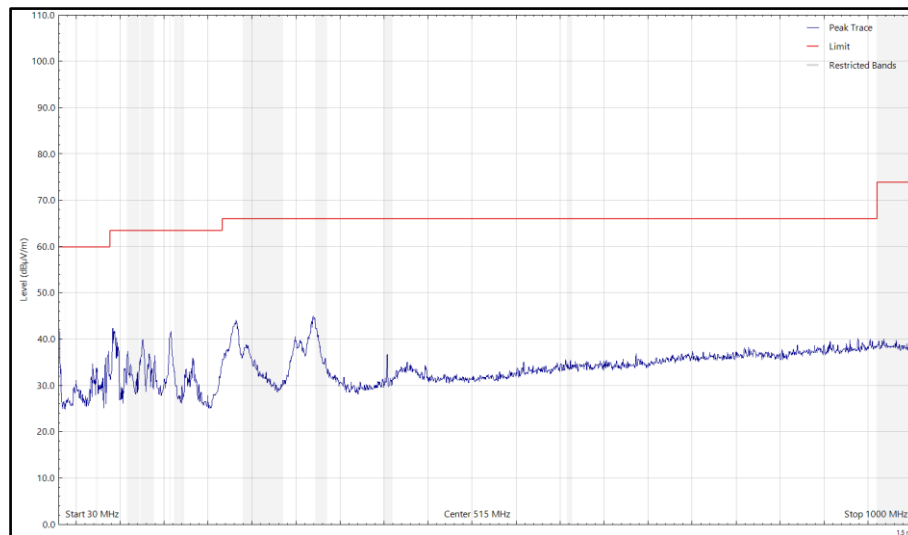


Figure 13 - SIMTX\_BT\_5GWi-Fi\_Flat, 2402MHz+5745MHz, 1 GHz to 13 GHz, Vertical

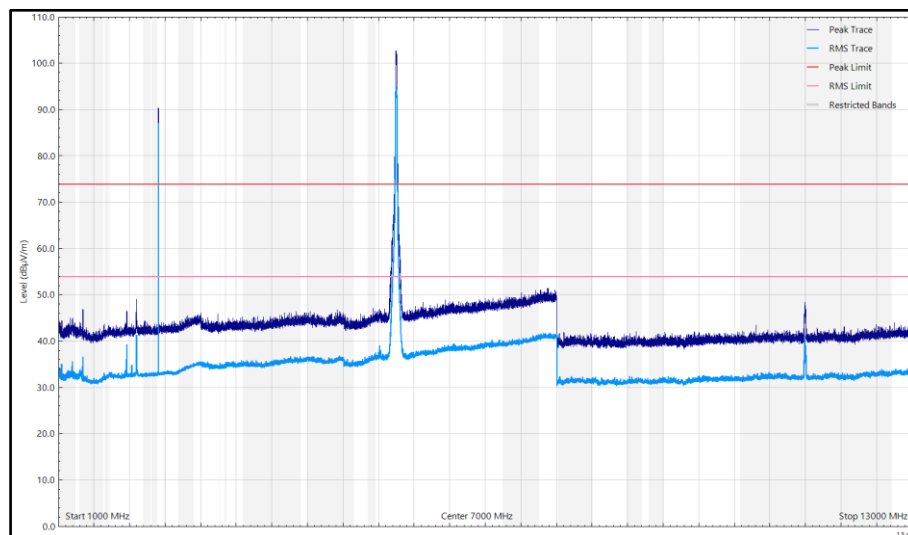
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 73.770          | 54.50                | 60.00                | -5.50       | Peak     | 243       | 150         | Vertical     |

**Table 9 - SIMTX\_BT\_5GWi-Fi\_Upright, 2402MHz+5745MHz, 1 to 13 GHz**

No other emissions found within 10 dB of the limit.



**Figure 14 - SIMTX\_BT\_5GWi-Fi\_Upright, 2402MHz+5745MHz, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 15 - SIMTX\_BT\_5GWi-Fi\_Upright, 2402MHz+5745MHz, 1 GHz to 13 GHz, Horizontal**

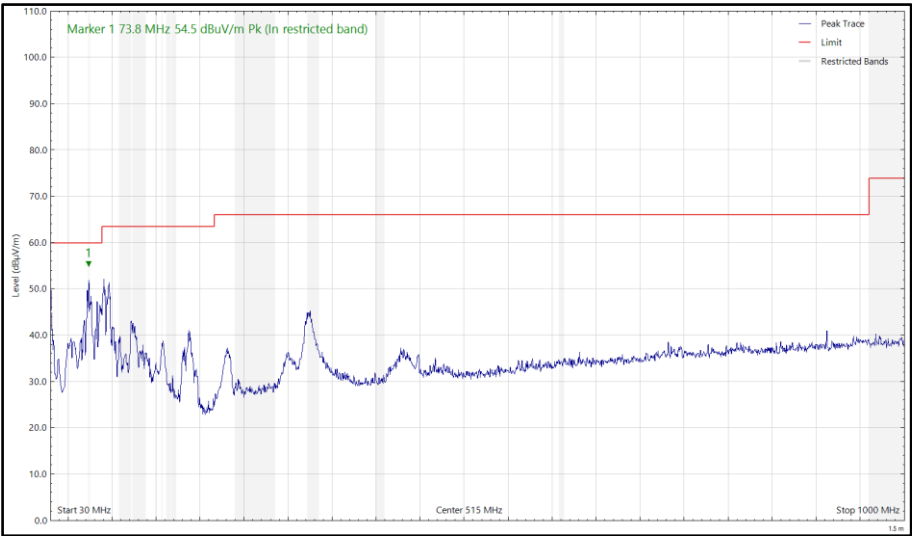


Figure 16 - SIMTX\_BT\_5GWi-Fi\_Upright, 2402MHz+5745MHz, 30 MHz to 1 GHz, Vertical (Peak)

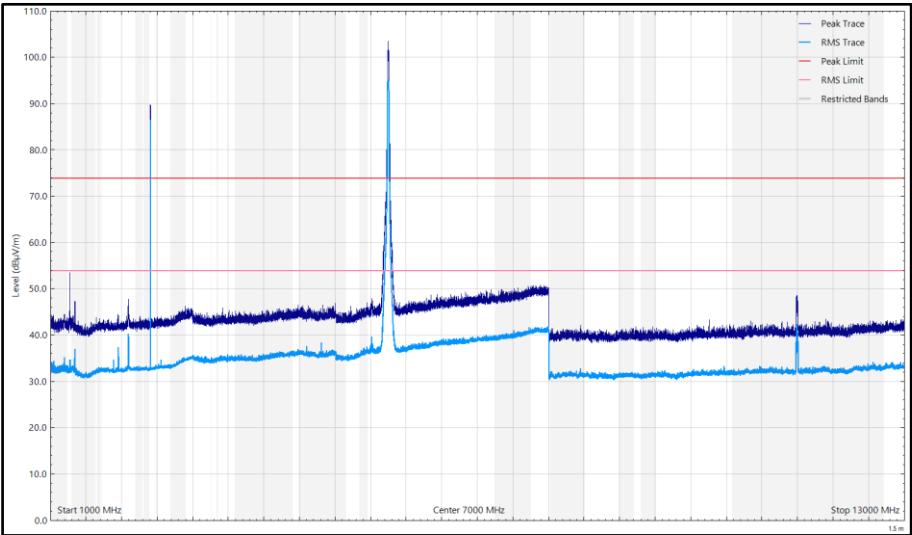


Figure 17 - SIMTX\_BT\_5GWi-Fi\_Upright, 2402MHz+5745MHz, 1 GHz to 13 GHz, Vertical

FCC 47 CFR Part 15C and 15E, Limit Clause

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

| Clause          | Limit                                                                     |
|-----------------|---------------------------------------------------------------------------|
| Part 15 247 (d) | -20 dBc / -30 dBc                                                         |
| Part 15.407 (b) | -27 dBm e.i.r.p                                                           |
| Part 15.209     | Peak: 74 dBµV/m at 3m, Average 54 dBµV/m at 3m (Restricted bands > 1 GHz) |

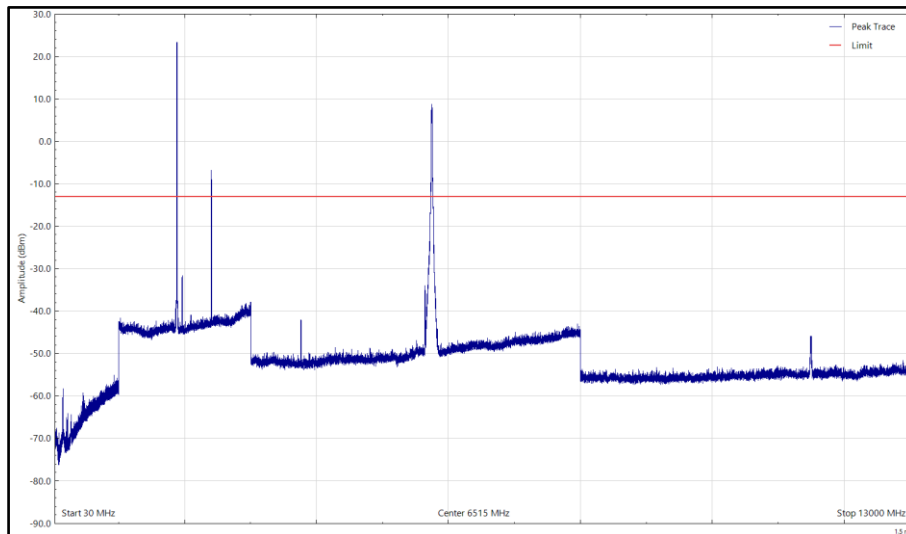
Table 10

LTE Cat-M FDD B2 (1900 MHz) + Bluetooth + 5 GHz Wi-Fi

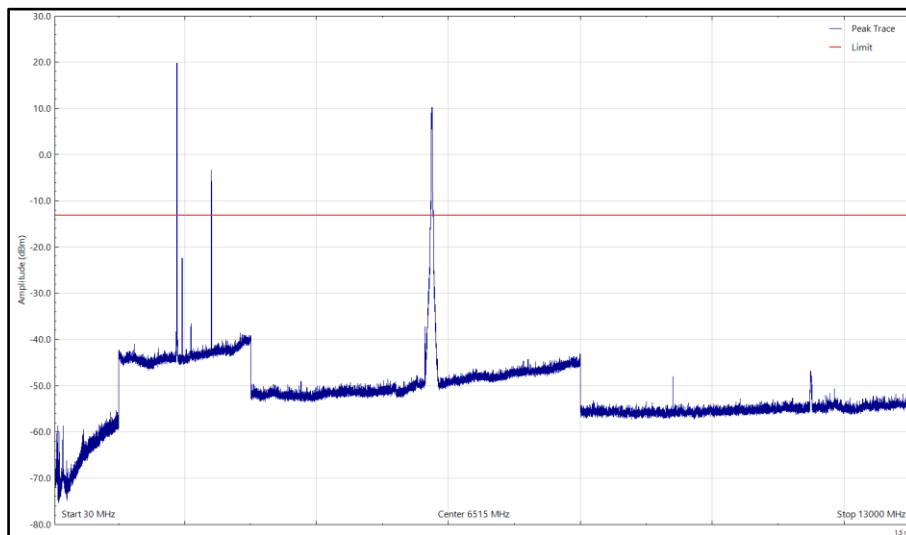
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| *               |             |             |             |          |           |             |              |

**Table 11 - SIMTX\_BT\_LTEB2\_5GWiFi\_Flat, 2402MHz+1880MHz+5745MHz, 30 MHz to 13 GHz**

\*No emissions found within 10 dB of the limit.



**Figure 18 - SIMTX\_BT\_LTEB2\_5GWiFi\_Flat, 2402MHz+1880MHz+5745MHz, 30 MHz to 13 GHz, Horizontal (Peak)**



**Figure 19 - SIMTX\_BT\_LTEB2\_5GWiFi\_Flat, 2402MHz+1880MHz+5745MHz, 30 MHz to 13 GHz, Vertical (Peak)**



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| *               |             |             |             |          |           |             |              |

Table 12 - SIMTX\_BT\_LTEB2\_5GWiFi\_Upright, 2402MHz+1880MHz+5745MHz, 30 MHz to 13 GHz

\*No emissions found within 10 dB of the limit.

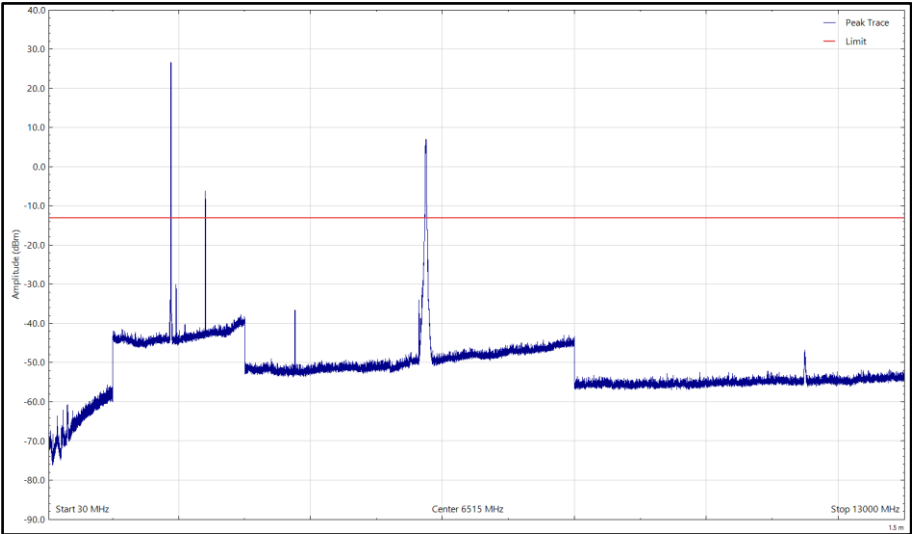


Figure 20 - SIMTX\_BT\_LTEB2\_5GWiFi\_Upright, 2402MHz+1880MHz+5745MHz, 30 MHz to 13 GHz, Horizontal (Peak)

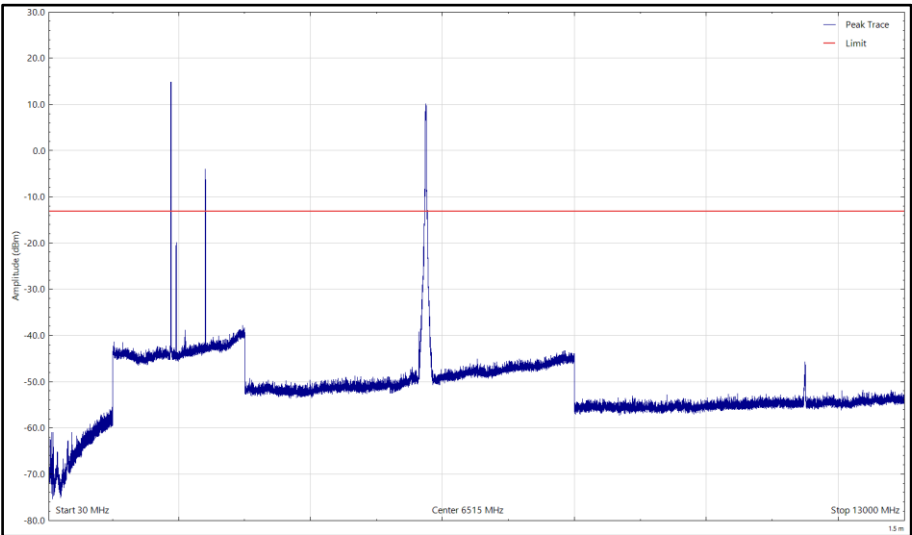


Figure 21 - SIMTX\_BT\_LTEB2\_5GWiFi\_Upright, 2402MHz+1880MHz+5745MHz, 30 MHz to 13 GHz, Vertical (Peak)



FCC 47 CFR Part 24

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

| Clause          | Limit                                   |
|-----------------|-----------------------------------------|
| Part 24.238 (a) | -13 dBm (EIRP) / 82 dB $\mu$ V/m at 3m. |

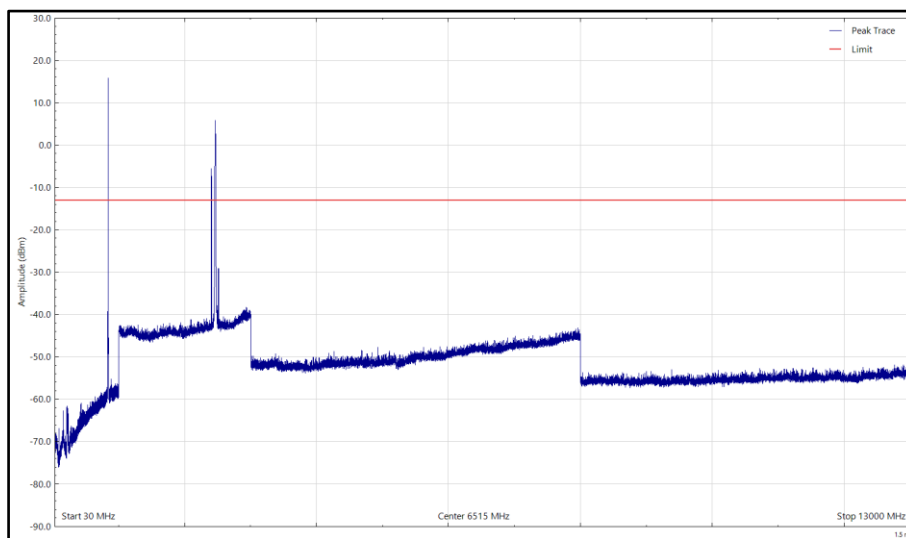
**Table 13**

LTE Cat-M FDD B5 (850 MHz) + Bluetooth + 2.4 GHz Wi-Fi

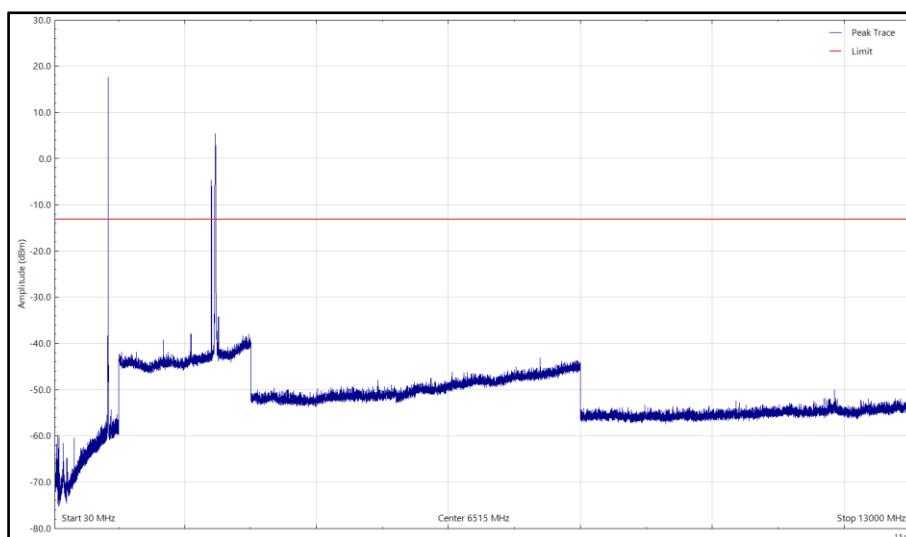
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| *               |             |             |             |          |           |             |              |

**Table 14 - SIMTX\_BT\_LTEB5\_2.4GWiFi\_Flat, 2402MHz+836.5MHz+2462MHz, 30 MHz to 13 GHz**

\*No emissions found within 10 dB of the limit.



**Figure 22 - SIMTX\_BT\_LTEB5\_2.4GWiFi\_Flat, 2402MHz+836.5MHz+2462MHz, 30 MHz to 13 GHz, Horizontal (Peak)**



**Figure 23 - SIMTX\_BT\_LTEB5\_2.4GWiFi\_Flat, 2402MHz+836.5MHz+2462MHz, 30 MHz to 13 GHz, Vertical (Peak)**



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| *               |             |             |             |          |           |             |              |

Table 15 - SIMTX\_BT\_LTEB5\_2.4GWiFi\_Upright, 2402MHz+836.5MHz+2462MHz, 30 MHz to 13 GHz

\*No emissions found within 10 dB of the limit.

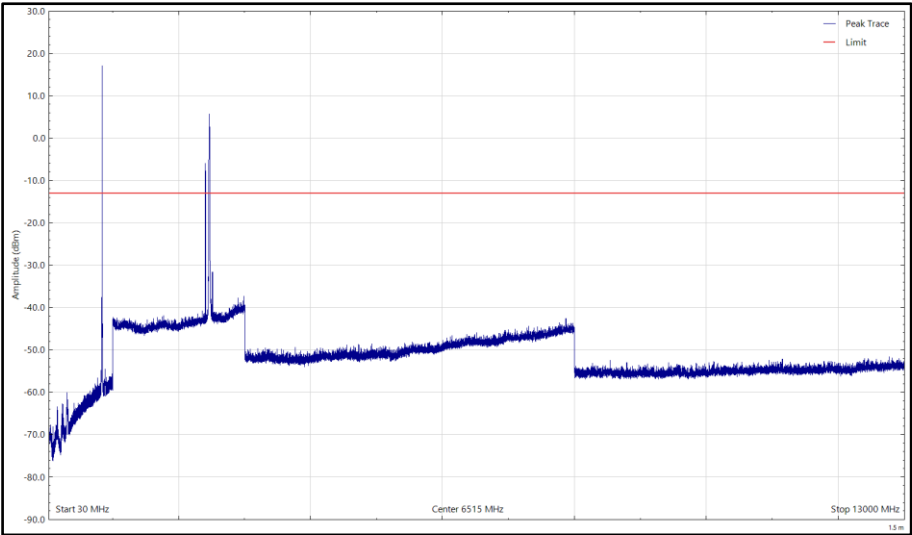


Figure 24 - SIMTX\_BT\_LTEB5\_2.4GWiFi\_Upright, 2402MHz+836.5MHz+2462MHz, 30 MHz to 13 GHz, Horizontal (Peak)

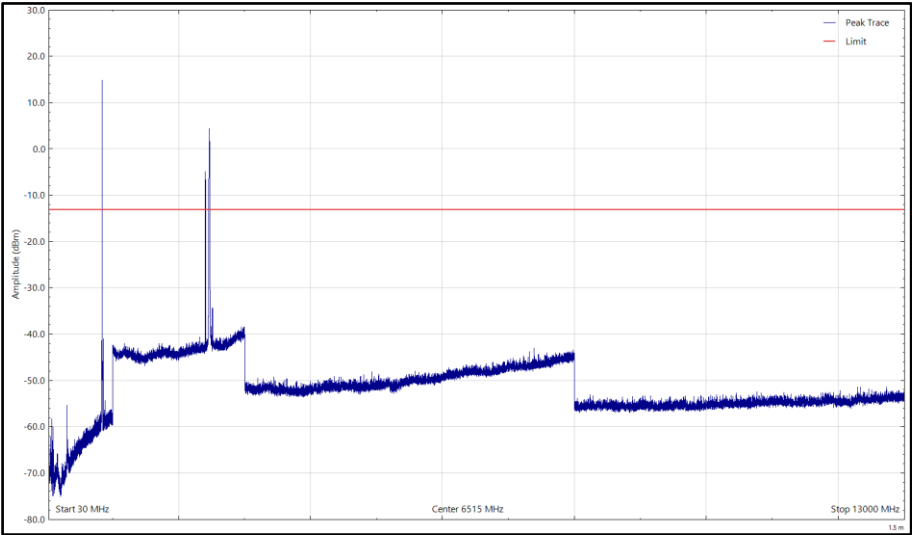


Figure 25 - SIMTX\_BT\_LTEB5\_2.4GWiFi\_Upright, 2402MHz+836.5MHz+2462MHz, 30 MHz to 13 GHz, Vertical (Peak)



FCC 47 CFR Part 22

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

| Clause          | Limit                                   |
|-----------------|-----------------------------------------|
| Part 22.917 (a) | -13 dBm (EIRP) / 82 dB $\mu$ V/m at 3m. |

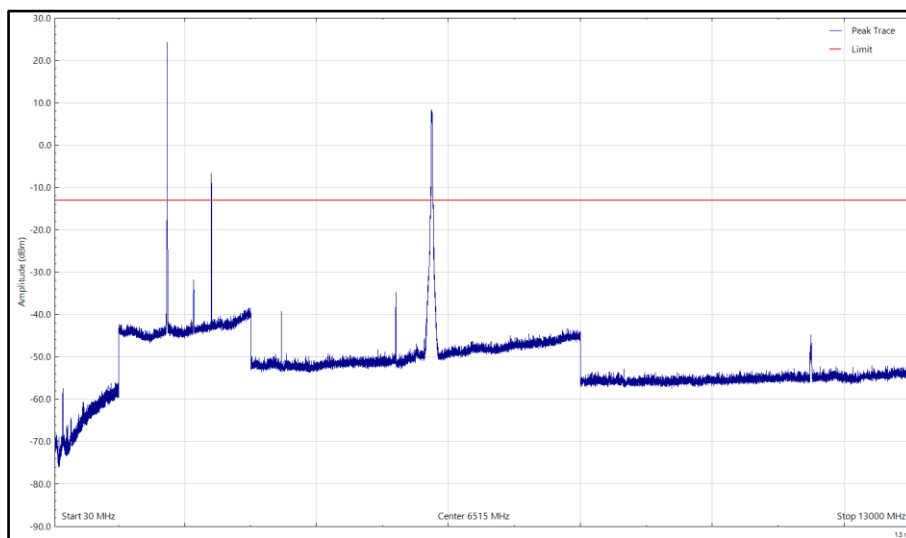
**Table 16**

LTE Cat-M FDD B4 (1700 MHz) + Bluetooth + 5 GHz Wi-Fi

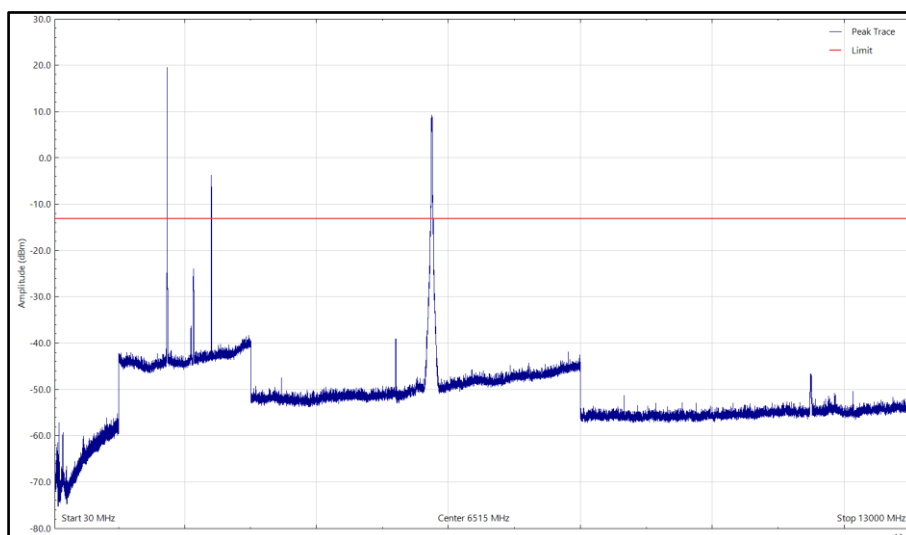
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| *               |             |             |             |          |           |             |              |

**Table 17 - SIMTX\_BT\_LTEB4\_5GWiFi\_Flat, 2402MHz+1732.5MHz+5745MHz, 30 MHz to 13 GHz**

\*No emissions found within 10 dB of the limit.



**Figure 26 - SIMTX\_BT\_LTEB4\_5GWiFi\_Flat, 2402MHz+1732.5MHz+5745MHz, 30 MHz to 13 GHz, Horizontal (Peak)**

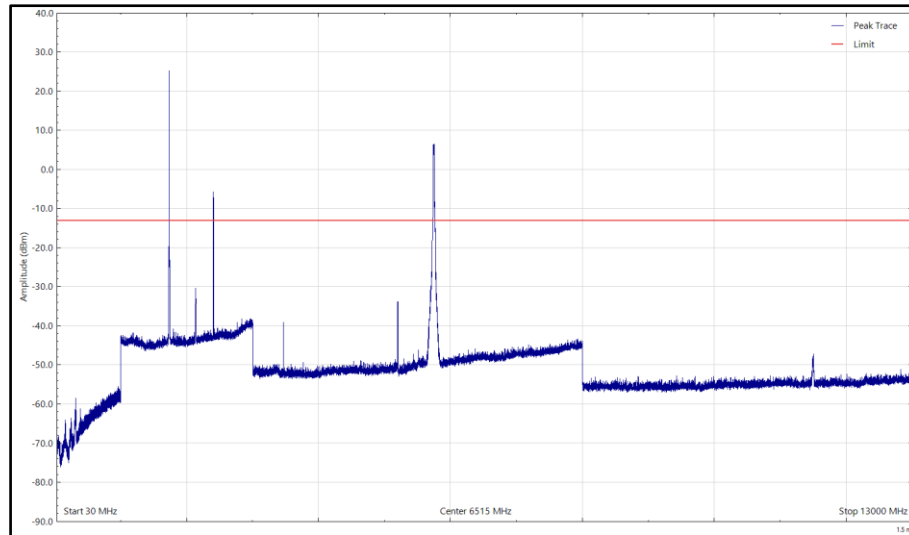


**Figure 27 - SIMTX\_BT\_LTEB4\_5GWiFi\_Flat, 2402MHz+1732.5MHz+5745MHz, 30 MHz to 13 GHz, Vertical (Peak)**

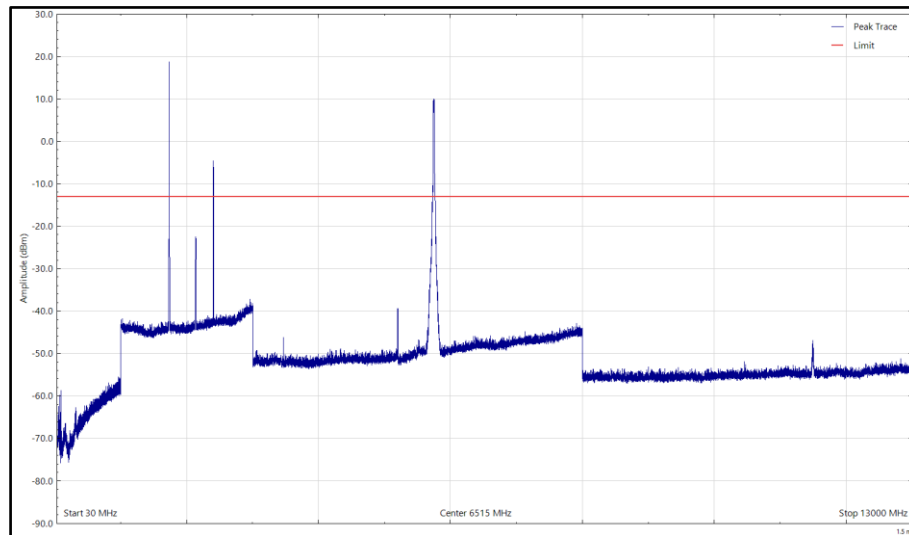
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| *               |             |             |             |          |           |             |              |

**Table 18 - SIMTX\_BT\_LTEB4\_5GWiFi\_Upright, 2402MHz+1732.5MHz+5745MHz, 30 MHz to 13 GHz**

\*No emissions found within 10 dB of the limit.



**Figure 28 - SIMTX\_BT\_LTEB4\_5GWiFi\_Upright, 2402MHz+1732.5MHz+5745MHz, 30 MHz to 13 GHz, Horizontal (Peak)**



**Figure 29 - SIMTX\_BT\_LTEB4\_5GWiFi\_Upright, 2402MHz+1732.5MHz+5745MHz, 30 MHz to 13 GHz, Vertical (Peak)**



FCC 47 CFR Part 27

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

| Clause         | Limit                                   |
|----------------|-----------------------------------------|
| Part 27.53 (h) | -13 dBm (EIRP) / 82 dB $\mu$ V/m at 3m. |

**Table 19**

## 2.1.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 11.

| Instrument                          | Manufacturer         | Type No                     | TE No | Calibration Period (months) | Calibration Expires |
|-------------------------------------|----------------------|-----------------------------|-------|-----------------------------|---------------------|
| True RMS Multimeter                 | Fluke                | 79 Series III               | 411   | 12                          | 09-Jan-2026         |
| Hygrometer                          | Rotronic             | I-1000                      | 3220  | 12                          | 02-Dec-2025         |
| Power Supply                        | Rohde & Schwarz      | HMP2020                     | 4735  | -                           | TU                  |
| Antenna (DRG, 1 GHz to 10.5 GHz)    | Schwarzbeck          | BBHA9120B                   | 4848  | 12                          | 05-Jul-2026         |
| Emissions Software                  | TUV SUD              | EmX V3.5.5                  | 5125  | -                           | Software            |
| 3m Semi-Anechoic Chamber            | Rainford             | RF Chamber 11               | 5136  | 36                          | 14-Nov-2027         |
| Mast                                | Maturo               | TAM 4.0-P                   | 5158  | -                           | TU                  |
| Turntable                           | Maturo               | TT 15WF                     | 5160  | -                           | TU                  |
| Antenna (DRG, 7.5 GHz to 18 GHz)    | Schwarzbeck          | HWRD750                     | 5216  | 12                          | 12-Jul-2026         |
| Cable 2.92m                         | Junkosha             | MWX241-01000KMS             | 5413  | 12                          | 23-May-2026         |
| Pre-Amplifier (1 GHz to 26.5 GHz)   | Agilent Technologies | 8449B                       | 5445  | 12                          | 10-Jul-2026         |
| EMI Test Receiver                   | Rohde & Schwarz      | ESW44                       | 5527  | 12                          | 14-Aug-2026         |
| 3 GHz High pass Filter              | Wainwright           | WHKX12-2580-3000-18000-80SS | 5547  | 12                          | 30-May-2026         |
| 7 GHz High pass Filter              | Wainwright           | WHKX12-5850-6800-18000-80SS | 5549  | 12                          | 31-Aug-2026         |
| Pre-Amplifier (8 GHz to 18 GHz)     | Wright Technologies  | APS06-0061                  | 5595  | 12                          | 28-Oct-2025         |
| 2m Coaxial Cable Assy               | Junkosha             | MWX221-02000AMSAMS/A        | 6360  | 12                          | 13-May-2026         |
| Radio Communication Analyser        | Anritsu              | MT8821C                     | 6443  | 12                          | 23-Apr-2026         |
| Trilog Super Broadband Test Antenna | Schwarzbeck          | VULB 9168                   | 6635  | 24                          | 25-Jul-2027         |
| Cable Assy 8m (N to N) 18GHz        | Junkosha             | MWX221-08000NMSNMS/B        | 7049  | 12                          | 01-Jun-2026         |

**Table 20**

TU - Traceability Unscheduled

### 3 Photographs

#### 3.1 Test Setup Photographs

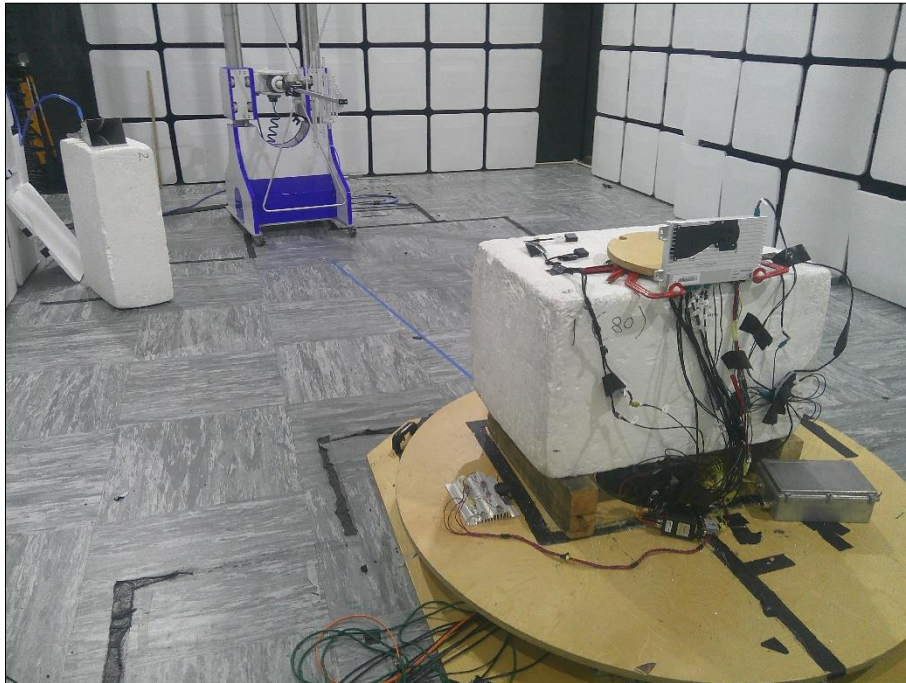


Figure 30 - Test Setup - 30 MHz to 1 GHz

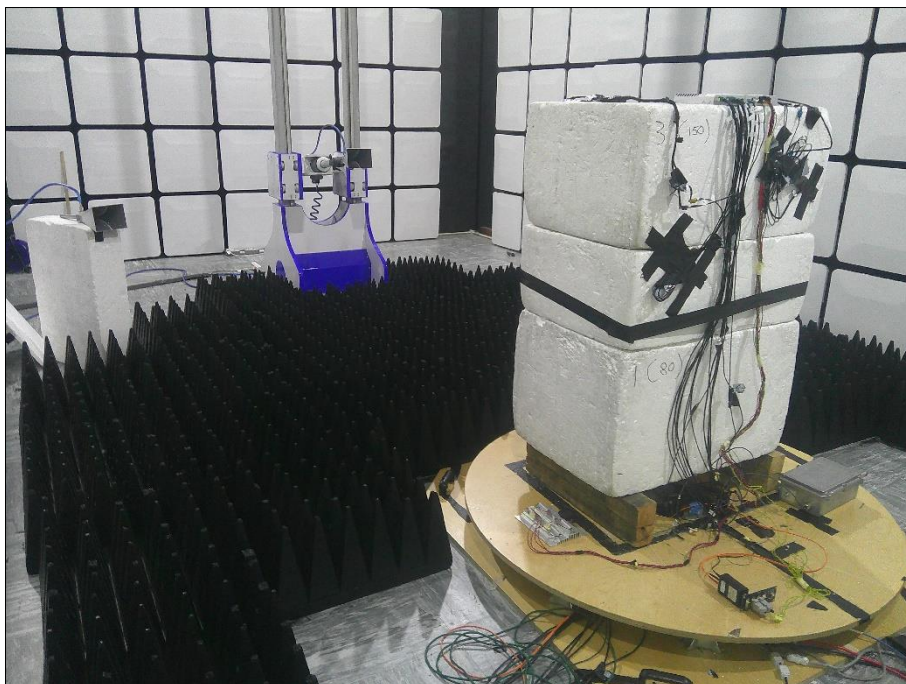


Figure 31 - Test Setup - 1 GHz to 13 GHz

## 4 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

| Test Name                                               | Measurement Uncertainty       |
|---------------------------------------------------------|-------------------------------|
| Radiated Spurious Emissions (Simultaneous Transmission) | 30 MHz to 1 GHz: $\pm 5.2$ dB |
|                                                         | 1 GHz to 40 GHz: $\pm 6.3$ dB |

**Table 21**

### Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.