

# FCC Test Report

Apple Inc  
Model: A3401

In accordance with FCC 47 CFR Part 15  
(2.4 GHz Bluetooth, 2.4 GHz WLAN, 5 GHz  
WLAN, 6 GHz WLAN, Narrowband and Thread)

Prepared for: Apple Inc  
One Apple Park Way  
Cupertino  
California  
95014  
USA



TUV  
SUD  
Limited

Digitally signed  
by TUV SUD  
Limited  
Date:  
2024.10.16  
10:19:23 +01'00'

FCC ID: BCGA3401

## COMMERCIAL-IN-CONFIDENCE

Document 75961394-74 Issue 01

### SIGNATURE

| NAME           | JOB TITLE       | RESPONSIBLE FOR      | ISSUE DATE      |
|----------------|-----------------|----------------------|-----------------|
| Steve Marshall | Senior Engineer | Authorised Signatory | 09 October 2024 |

Signatures in this approval box have checked this document in line with the requirements of TUV SUD document control rules.

### ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15. The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR   | NAME            | DATE            | SIGNATURE |
|-------------------|-----------------|-----------------|-----------|
| Report Generation | Rachael Watkins | 09 October 2024 |           |

FCC Accreditation  
553713/UK2026 Concorde Park, Fareham Test Laboratory

### EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15. 2023 for the tests detailed in section 1.3.



#### DISCLAIMER AND COPYRIGHT

This non-binding report has been prepared by TUV SUD with all reasonable skill and care. The document is confidential to the potential Client and TUV SUD. No part of this document may be reproduced without the prior written approval of TUV SUD. © 2024 TUV SUD. This report relates only to the actual item/items tested.

#### ACCREDITATION

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation. Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited). Results of tests covered by our Flexible UKAS Accreditation Schedule are marked FS (Flexible Scope).

TUV SUD  
is a trading name of TUV SUD Ltd  
Registered in Scotland at East Kilbride,  
Glasgow G75 0QF, United Kingdom  
Registered number: SC215164

TUV SUD Ltd is a  
TUV SUD Group Company

Phone: +44 (0) 1489 558100  
Fax: +44 (0) 1489 558101  
[www.tuvsud.com/en](http://www.tuvsud.com/en)

TUV SUD  
Octagon House  
Concorde Way  
Fareham  
Hampshire PO15 5RL  
United Kingdom



Contents

**1      Report Summary .....2**

1.1    Report Modification Record.....2

1.2    Introduction.....2

1.3    Brief Summary of Results .....3

1.4    Product Information .....4

1.5    Deviations from the Standard.....4

1.6    Identification of the EUT .....4

1.7    EUT Modification Record .....4

1.8    Test Location .....5

**2      Test Details .....6**

2.1    Radiated Spurious Emissions (Simultaneous Transmission) .....6

**3      Measurement Uncertainty ..... 98**



# 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   |
|-------|-----------------------|-----------------|
| 1     | First Issue           | 09-October-2024 |

Table 1

## 1.2 Introduction

|                               |                                                                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant                     | Apple Inc                                                                                                                                   |
| Manufacturer                  | Apple Inc                                                                                                                                   |
| EUT/Sample Identification     | Refer to section 1.6                                                                                                                        |
| Test Specification/Issue/Date | FCC 47 CFR Part 15: 2023                                                                                                                    |
| Start of Test                 | 06-September-2024                                                                                                                           |
| Finish of Test                | 27-September-2024                                                                                                                           |
| Name of Engineer(s)           | Thomas Randall, Ian Hart, Vineeth Nagaraj, Manohar Thota, Elliot Callender, Akhil Rajendran Bhaskaran Nair, Morsalin Hossain and Tony Baby. |
| Related Document(s)           | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v01r01                                                   |



### 1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15 is shown below.

| Section                                                  | Specification Clause            | Test Description                                        | Result | Comments/Base Standard                                           |
|----------------------------------------------------------|---------------------------------|---------------------------------------------------------|--------|------------------------------------------------------------------|
| Configuration and Mode: 5 GHz WLAN and 2.4 GHz Bluetooth |                                 |                                                         |        |                                                                  |
| 2.1                                                      | 15.209, 15.247(d) and 15.407(b) | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 789033 D02 v02r01 |
| Configuration and Mode: 6 GHz WLAN and 2.4 GHz Bluetooth |                                 |                                                         |        |                                                                  |
| 2.1                                                      | 15.209, 15.247(d) and 15.407(b) | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 987594 D02 v01r01 |
| Configuration and Mode: 2.4 GHz WLAN and Narrowband      |                                 |                                                         |        |                                                                  |
| 2.1                                                      | 15.209, 15.247(d) and 15.407(b) | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)                          |
| Configuration and Mode: 5 GHz WLAN and Thread            |                                 |                                                         |        |                                                                  |
| 2.1                                                      | 15.209, 15.247(d) and 15.407(b) | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 789033 D02 v02r01 |
| Configuration and Mode: 6 GHz WLAN and Thread            |                                 |                                                         |        |                                                                  |
| 2.1                                                      | 15.209, 15.247(d) and 15.407(b) | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 987594 D02 v01r01 |

**Table 2**



## 1.4 Product Information

### 1.4.1 Technical Description

The equipment under test (EUT) was a portable laptop computer.

### 1.5 Deviations from the Standard

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

### 1.6 Identification of the EUT

The table below details identification of the EUT(s) that have been used to carry out the testing within this report.

|               |                  |                  |          |
|---------------|------------------|------------------|----------|
| Model: A3401  |                  |                  |          |
| Serial Number | Hardware Version | Software Version | Firmware |
| JVJC362FKV    | REV1.0           | 24A32191s        | 23.30.16 |

**Table 3**

### 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: A3401, Serial Number: JVJC362FKV |                                                 |                        |                          |
| 0                                       | As supplied by the customer                     | Not Applicable         | Not Applicable           |

**Table 4**



## 1.8 Test Location

TÜV SÜD conducted the following tests at our Concorde Park Test Laboratory.

| Test Name                                                | Name of Engineer(s)                                                                                        | Accreditation |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------|
| Configuration and Mode: 5 GHz WLAN and 2.4 GHz Bluetooth |                                                                                                            |               |
| Radiated Spurious Emissions (Simultaneous Transmission)  | Thomas Randall, Ian Hart, Vineeth Nagaraj, Manohar Thota, Elliot Callender, Akhil Rajendran Bhaskaran Nair | UKAS          |
| Configuration and Mode: 6 GHz WLAN and 2.4 GHz Bluetooth |                                                                                                            |               |
| Radiated Spurious Emissions (Simultaneous Transmission)  | Vineeth Nagaraj, Manohar Thota, Morsalin Hossain                                                           | UKAS          |
| Configuration and Mode: 2.4 GHz WLAN and Narrowband      |                                                                                                            |               |
| Radiated Spurious Emissions (Simultaneous Transmission)  | Vineeth Nagaraj, Manohar Thota and Morsalin Hossain                                                        | UKAS          |
| Configuration and Mode: 5 GHz WLAN and Thread            |                                                                                                            |               |
| Radiated Spurious Emissions (Simultaneous Transmission)  | Manohar Thota, Morsalin Hossain, Ian Hart, Elliot Callender, Akhil Rajendran Bhaskaran Nair                | UKAS          |
| Configuration and Mode: 6 GHz WLAN and Thread            |                                                                                                            |               |
| Radiated Spurious Emissions (Simultaneous Transmission)  | Tony Baby, Ian Hart, Morsalin Hossain, Manohar Thota, Elliot Callender                                     | UKAS          |

**Table 5**

Office Address:

TÜV SÜD  
Concorde Park  
Concorde Way  
Fareham  
Hampshire  
PO15 5FG  
United Kingdom



## 2 Test Details

### 2.1 Radiated Spurious Emissions (Simultaneous Transmission)

#### 2.1.1 Specification Reference

FCC 47 CFR Part 15, Clause 15.209, 15.247(d) and 15.407(b)

#### 2.1.2 Equipment Under Test and Modification State

A3401, S/N: JVJC362FKV - Modification State 0

#### 2.1.3 Date of Test

06-September-2024 to 27-September-2024

#### 2.1.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

Ports on the EUT were terminated with loads as described in ANSI C63.4 clause 6.2.4 for each type of port on the EUT.

For frequencies > 1 GHz, plots for average measurements were taken in accordance with ANSI C63.10, clause 4.1.4.2.5 to characterize the EUT. Where emissions were detected, final average measurements were taken in accordance with ANSI C63.10, clause 4.1.4.2.2, 11.11, 11.12, 12.7.2 or 12.7.3 depending on the nature of the emission measured.

The plots shown are the characterisation of the EUT. The limits on the plots represent the most stringent case for restricted bands, (74/54 dBuV/m) when compared to non-restricted band limits. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10 dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBuV/m to uV/m:

$10^{(\text{Field Strength in dBuV/m}/20)}$ .

To determine the emission characteristic of the EUT above 18 GHz, the test antenna was swept over all faces of the EUT whilst observing a spectral display. The frequency of any emissions of interest was noted for formal measurement at the correct measurement distance of 1m. This procedure was repeated for all relevant transmit operating channels.

At a measurement distance of 1 meter the limit line was increased by  $20 \cdot \text{LOG}(3/1) = 9.54$  dB.

### 2.1.5 Example Test Setup Diagram

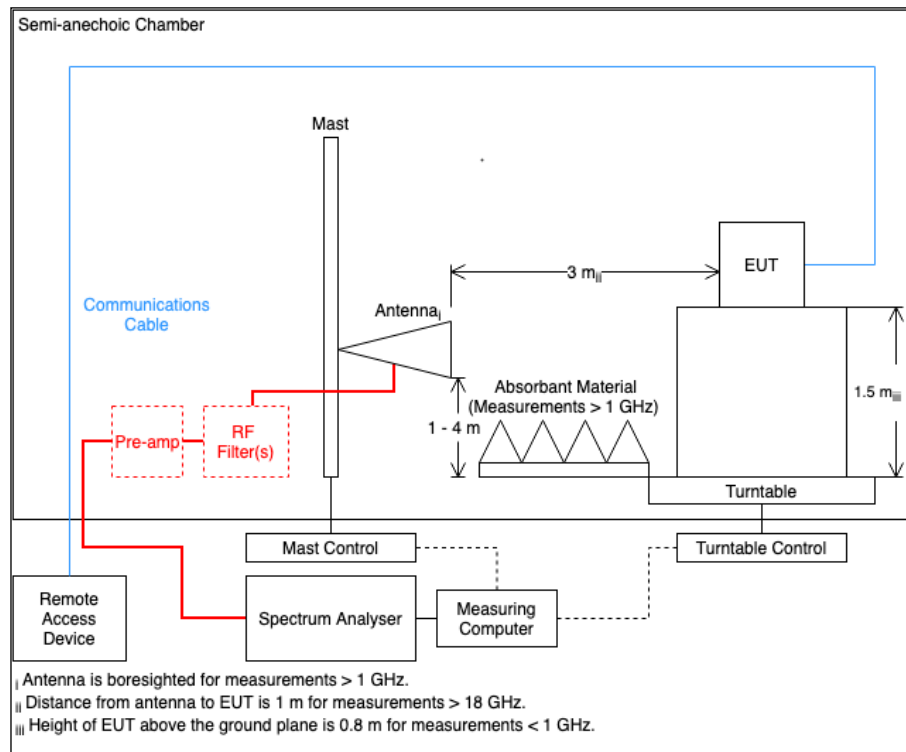


Figure 1

### 2.1.6 Environmental Conditions

|                     |                |
|---------------------|----------------|
| Ambient Temperature | 21.8 - 24.4 °C |
| Relative Humidity   | 41.6 - 52.6 %  |



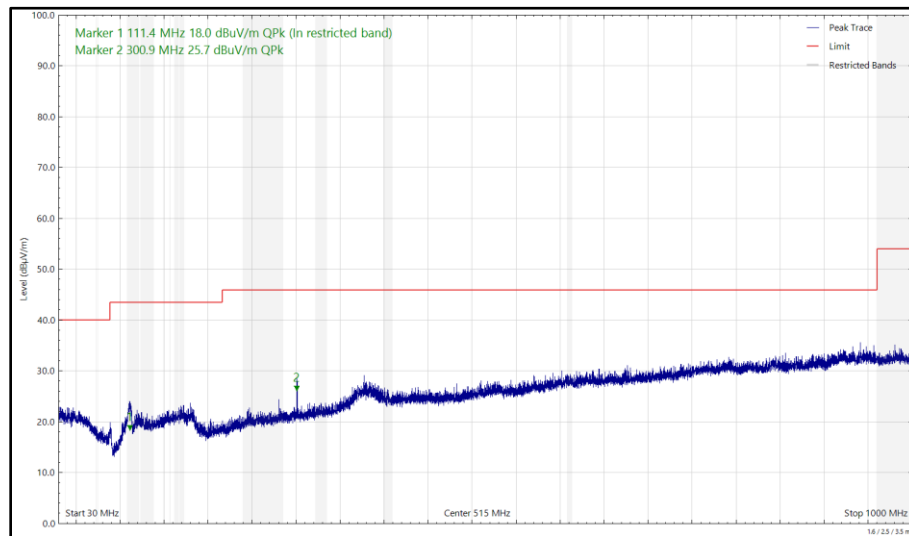
## 2.1.7 Test Results

### 5 GHz WLAN and 2.4 GHz Bluetooth

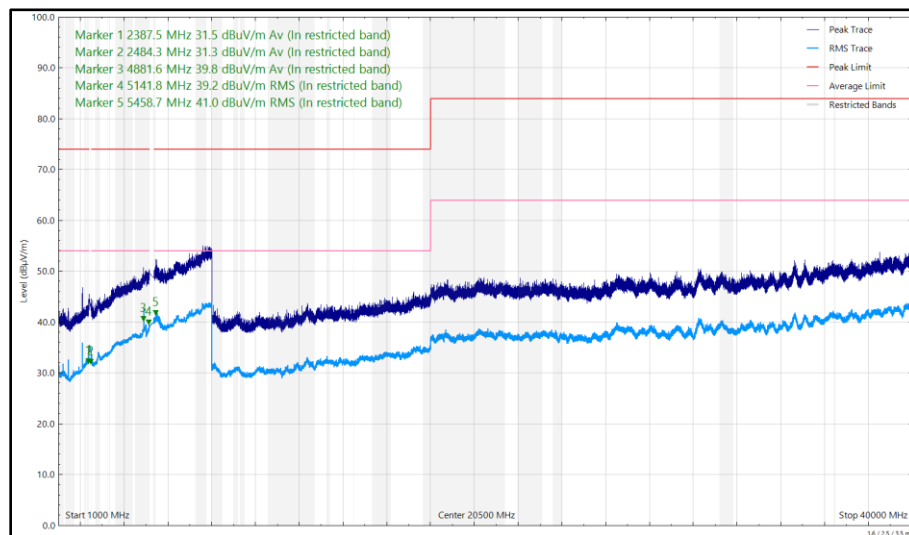
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 30.007          | 26.87          | 40.00          | -13.13      | Q-Peak    | 304       | 106         | Vertical     |
| 88.511          | 14.29          | 43.50          | -29.21      | Q-Peak    | 187       | 120         | Vertical     |
| 111.132         | 17.19          | 43.50          | -26.31      | Q-Peak    | 260       | 123         | Vertical     |
| 111.359         | 17.98          | 43.50          | -25.52      | Q-Peak    | 350       | 364         | Horizontal   |
| 300.840         | 23.86          | 46.00          | -22.14      | Q-Peak    | 350       | 240         | Vertical     |
| 300.865         | 25.67          | 46.00          | -20.33      | Q-Peak    | 254       | 106         | Horizontal   |
| 2381.787        | 33.97          | 54.00          | -20.03      | CISPR Avg | 24        | 276         | Vertical     |
| 2387.518        | 31.46          | 54.00          | -22.54      | CISPR Avg | 59        | 370         | Horizontal   |
| 2484.344        | 31.33          | 54.00          | -22.67      | CISPR Avg | 62        | 390         | Horizontal   |
| 2487.140        | 35.47          | 54.00          | -18.53      | CISPR Avg | 31        | 290         | Vertical     |
| 2797.723        | 37.76          | 54.00          | -16.24      | RMS       | 335       | 299         | Vertical     |
| 4881.643        | 39.82          | 54.00          | -14.18      | CISPR Avg | 57        | 394         | Horizontal   |
| 4882.188        | 45.72          | 54.00          | -8.28       | CISPR Avg | 22        | 266         | Vertical     |
| 4882.287        | 58.72          | 74.00          | -15.28      | Peak      | 19        | 275         | Vertical     |
| 5132.142        | 58.08          | 74.00          | -15.92      | Peak      | 357       | 287         | Vertical     |
| 5141.806        | 39.18          | 54.00          | -14.82      | RMS       | 334       | 393         | Horizontal   |
| 5146.993        | 46.03          | 54.00          | -7.97       | RMS       | 335       | 281         | Vertical     |
| 5351.564        | 47.17          | 54.00          | -6.83       | RMS       | 360       | 297         | Vertical     |
| 5360.355        | 59.70          | 74.00          | -14.30      | Peak      | 344       | 280         | Vertical     |
| 5458.661        | 41.02          | 54.00          | -12.98      | RMS       | 292       | 351         | Horizontal   |

**Table 6 - U-NII-1 – 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

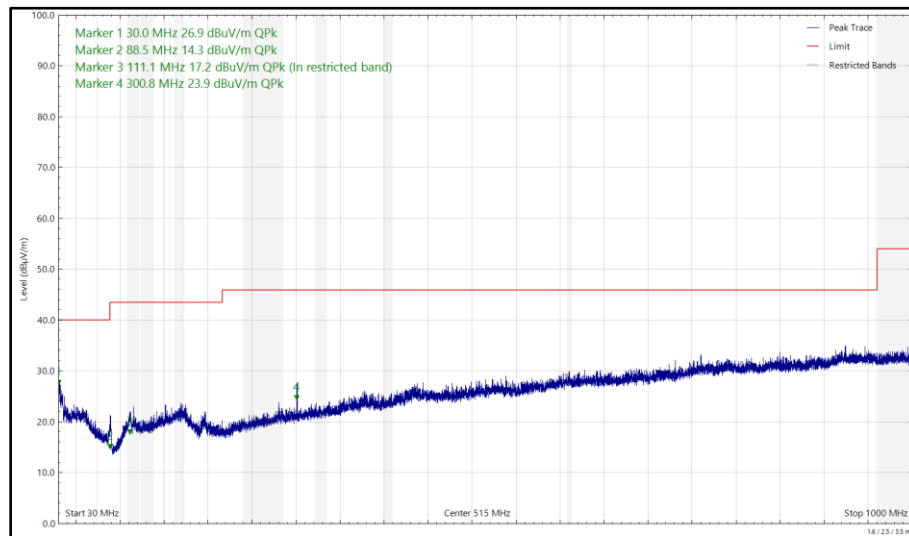
No other emissions found within 10 dB of the limit.



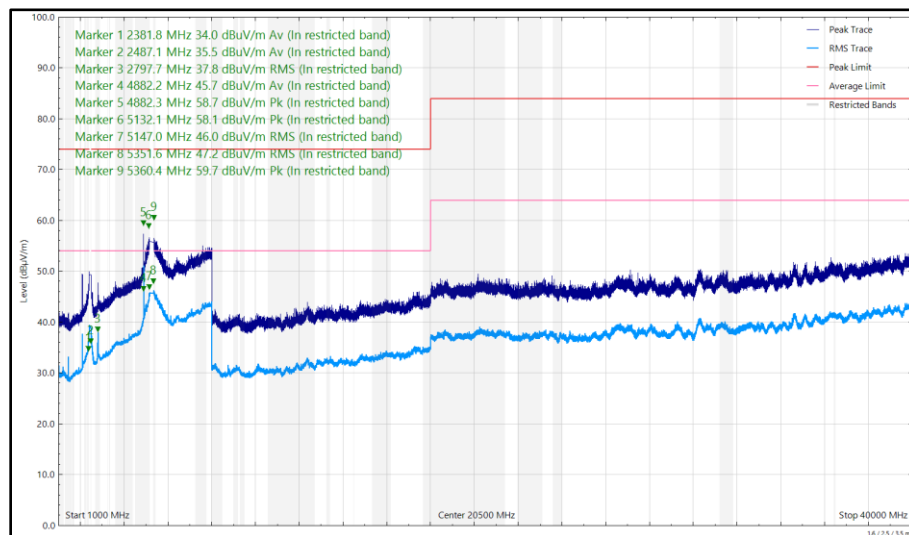
**Figure 2 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 3 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 4 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



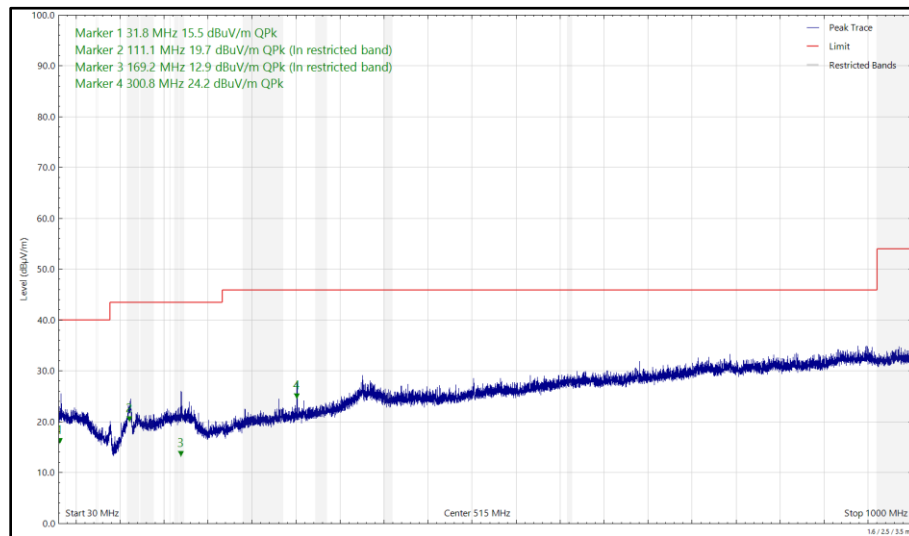
**Figure 5 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**



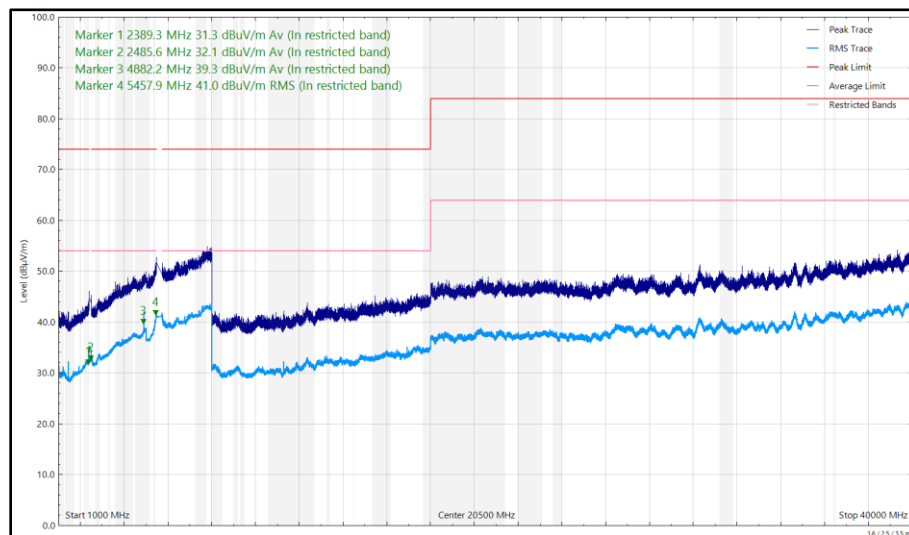
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 30.010          | 26.00          | 40.00          | -14.00      | Q-Peak    | 350       | 106         | Vertical     |
| 31.817          | 15.48          | 40.00          | -24.52      | Q-Peak    | 359       | 130         | Horizontal   |
| 111.060         | 19.74          | 43.50          | -23.76      | Q-Peak    | 182       | 285         | Horizontal   |
| 116.509         | 14.61          | 43.50          | -28.89      | Q-Peak    | 11        | 107         | Vertical     |
| 169.218         | 12.88          | 43.50          | -30.62      | Q-Peak    | 336       | 108         | Horizontal   |
| 169.943         | 13.66          | 43.50          | -29.84      | Q-Peak    | 3         | 106         | Vertical     |
| 300.836         | 24.18          | 46.00          | -21.82      | Q-Peak    | 72        | 100         | Horizontal   |
| 300.852         | 24.77          | 46.00          | -21.23      | Q-Peak    | 10        | 241         | Vertical     |
| 2389.262        | 31.29          | 54.00          | -22.71      | CISPR Avg | 58        | 376         | Horizontal   |
| 2389.391        | 35.07          | 54.00          | -18.93      | CISPR Avg | 6         | 308         | Vertical     |
| 2485.233        | 34.60          | 54.00          | -19.40      | CISPR Avg | 360       | 300         | Vertical     |
| 2485.601        | 32.11          | 54.00          | -21.89      | CISPR Avg | 54        | 381         | Horizontal   |
| 4881.888        | 43.86          | 54.00          | -10.14      | CISPR Avg | 21        | 279         | Vertical     |
| 4882.078        | 56.86          | 74.00          | -17.14      | Peak      | 20        | 257         | Vertical     |
| 4882.223        | 39.30          | 54.00          | -14.70      | CISPR Avg | 55        | 347         | Horizontal   |
| 5443.023        | 58.23          | 74.00          | -15.77      | Peak      | 360       | 289         | Vertical     |
| 5451.772        | 46.53          | 54.00          | -7.47       | RMS       | 5         | 297         | Vertical     |
| 5457.854        | 40.99          | 54.00          | -13.01      | RMS       | 295       | 355         | Horizontal   |

**Table 7 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

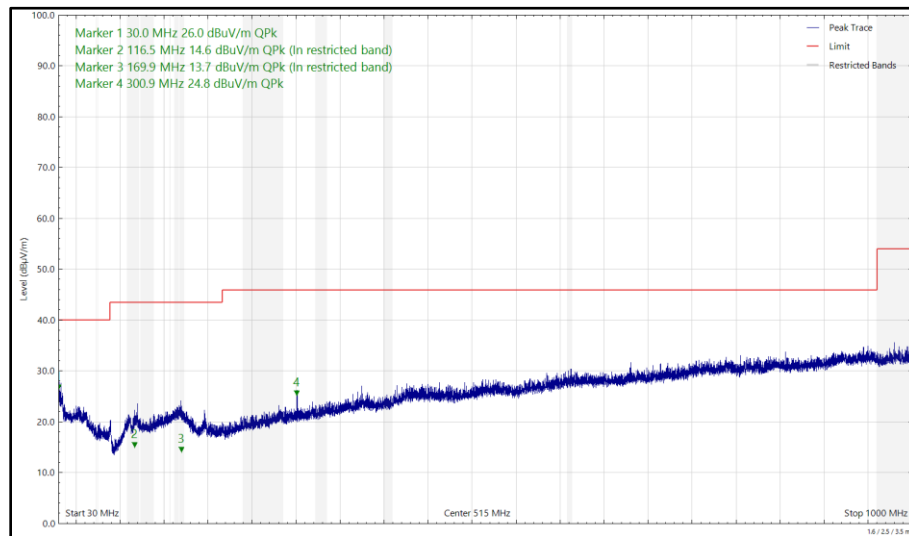
No other emissions found within 10 dB of the limit.



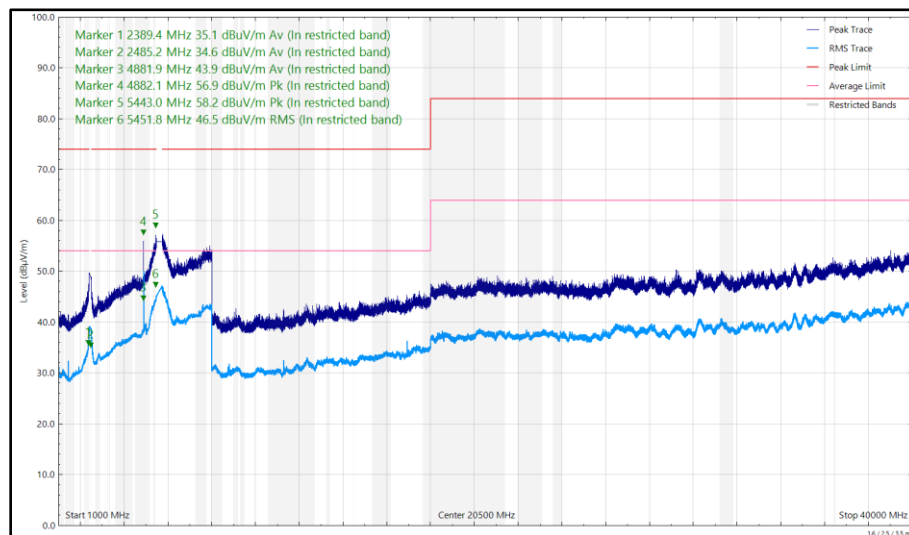
**Figure 6 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 7 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 8 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



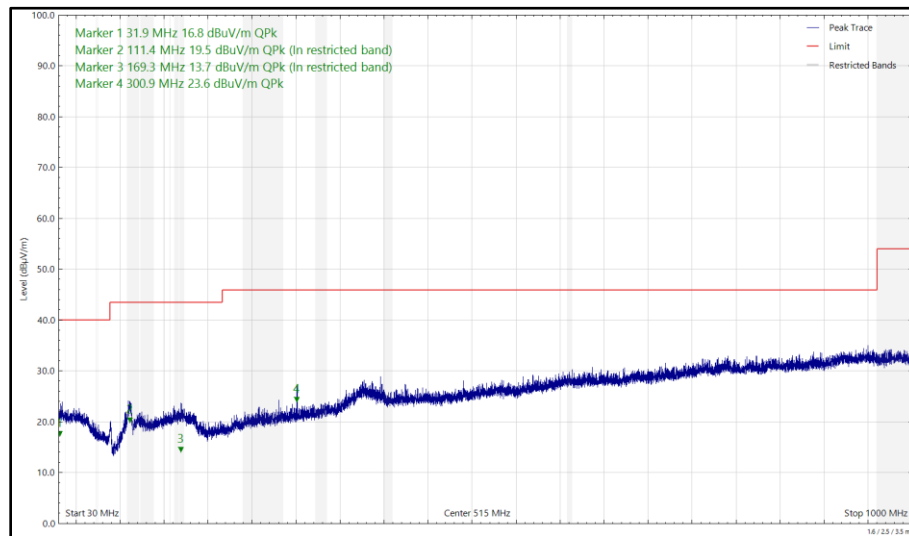
**Figure 9 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**



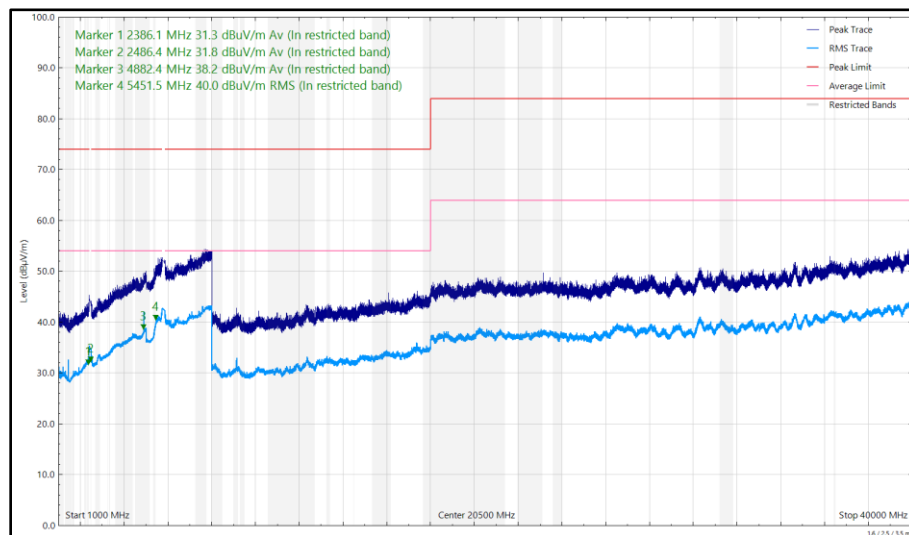
| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 30.073          | 26.56          | 40.00          | -13.44      | Q-Peak    | 331       | 100         | Vertical     |
| 31.900          | 16.82          | 40.00          | -23.18      | Q-Peak    | 53        | 102         | Horizontal   |
| 88.842          | 14.94          | 43.50          | -28.56      | Q-Peak    | 180       | 129         | Vertical     |
| 111.435         | 19.46          | 43.50          | -24.04      | Q-Peak    | 167       | 249         | Horizontal   |
| 118.016         | 13.39          | 43.50          | -30.11      | Q-Peak    | 30        | 112         | Vertical     |
| 169.285         | 13.71          | 43.50          | -29.79      | Q-Peak    | 354       | 170         | Horizontal   |
| 300.854         | 24.66          | 46.00          | -21.34      | Q-Peak    | 0         | 240         | Vertical     |
| 300.861         | 23.58          | 46.00          | -22.42      | Q-Peak    | 256       | 150         | Horizontal   |
| 2379.151        | 33.29          | 54.00          | -20.71      | CISPR Avg | 0         | 335         | Vertical     |
| 2386.081        | 31.30          | 54.00          | -22.70      | CISPR Avg | 52        | 393         | Horizontal   |
| 2484.511        | 34.60          | 54.00          | -19.40      | CISPR Avg | 352       | 367         | Vertical     |
| 2486.409        | 31.83          | 54.00          | -22.17      | CISPR Avg | 55        | 383         | Horizontal   |
| 4881.788        | 58.50          | 74.00          | -15.50      | CISPR Avg | 18        | 251         | Vertical     |
| 4881.788        | 45.50          | 54.00          | -8.50       | CISPR Avg | 18        | 251         | Vertical     |
| 4882.352        | 38.24          | 54.00          | -15.76      | CISPR Avg | 56        | 383         | Horizontal   |
| 5448.477        | 56.10          | 74.00          | -17.90      | Peak      | 0         | 305         | Vertical     |
| 5451.477        | 40.02          | 54.00          | -13.98      | RMS       | 295       | 400         | Horizontal   |
| 5459.671        | 44.65          | 54.00          | -9.35       | RMS       | 0         | 295         | Vertical     |

**Table 8 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

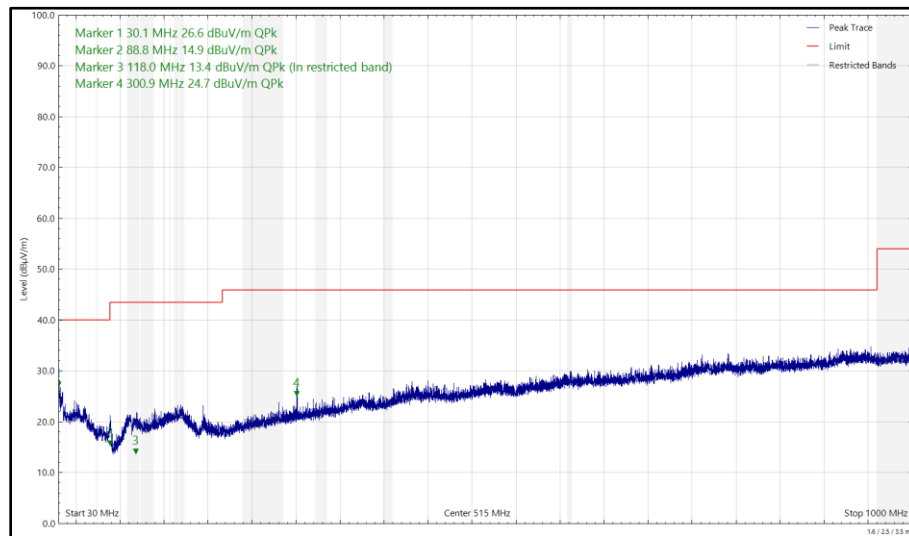
No other emissions found within 10 dB of the limit.



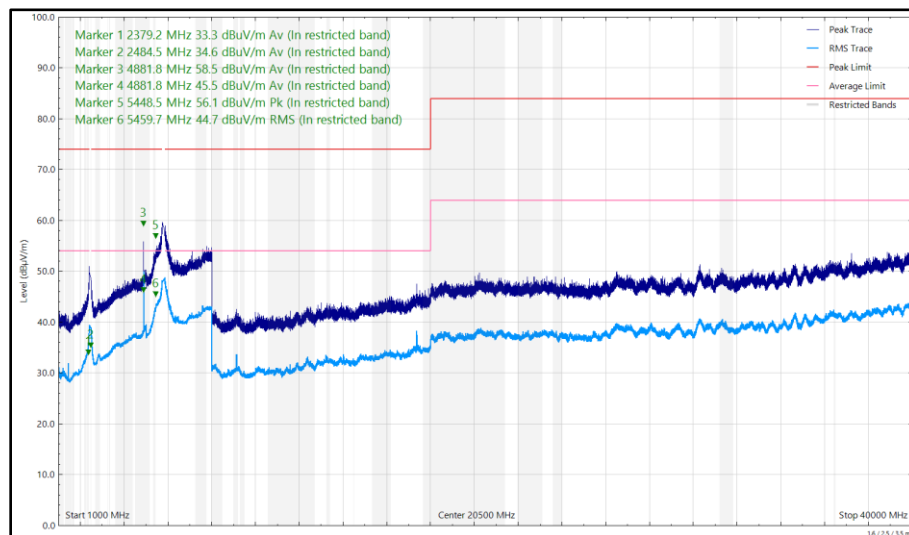
**Figure 10 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 11 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 12 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



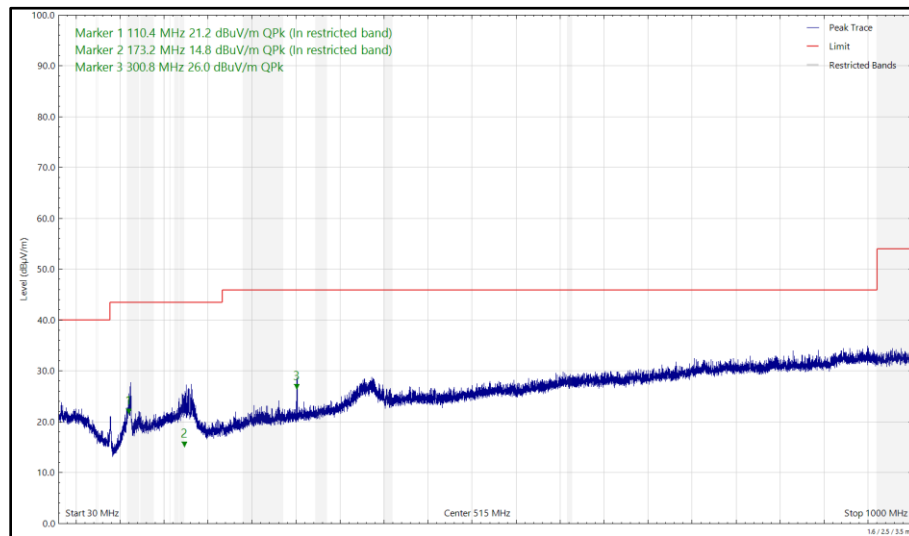
**Figure 13 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**



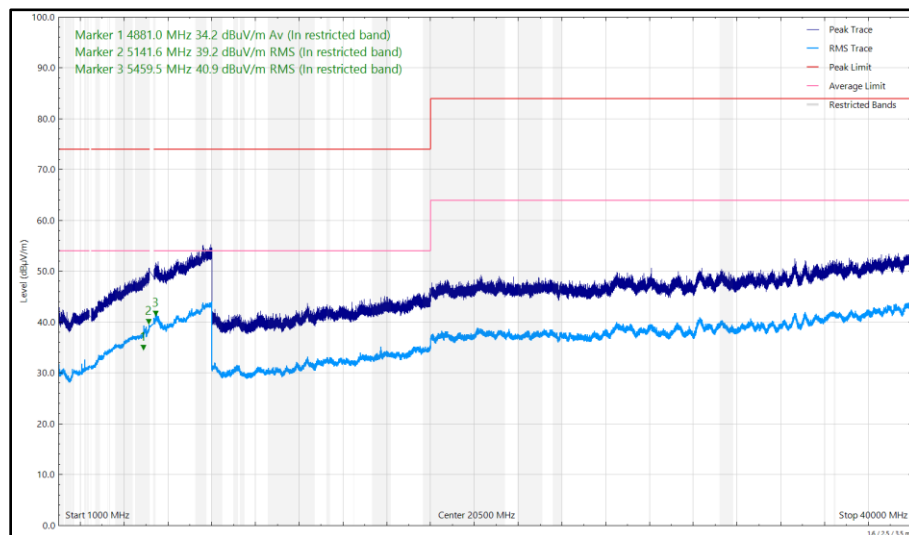
| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 30.053          | 26.19          | 40.00          | -13.81      | Q-Peak    | 300       | 100         | Vertical     |
| 110.373         | 21.24          | 43.50          | -22.26      | Q-Peak    | 178       | 286         | Horizontal   |
| 110.804         | 15.94          | 43.50          | -27.56      | Q-Peak    | 265       | 252         | Vertical     |
| 170.176         | 16.59          | 43.50          | -26.91      | Q-Peak    | 358       | 100         | Vertical     |
| 173.183         | 14.77          | 43.50          | -28.73      | Q-Peak    | 0         | 262         | Horizontal   |
| 300.836         | 23.92          | 46.00          | -22.08      | Q-Peak    | 351       | 255         | Vertical     |
| 300.845         | 26.02          | 46.00          | -19.98      | Q-Peak    | 289       | 120         | Horizontal   |
| 4880.978        | 34.20          | 54.00          | -19.80      | CISPR Avg | 328       | 370         | Horizontal   |
| 4881.868        | 45.11          | 54.00          | -8.89       | CISPR Avg | 360       | 279         | Vertical     |
| 4882.213        | 54.32          | 74.00          | -19.68      | Peak      | 0         | 264         | Vertical     |
| 5141.565        | 39.24          | 54.00          | -14.76      | RMS       | 56        | 387         | Horizontal   |
| 5146.366        | 58.85          | 74.00          | -15.15      | Peak      | 0         | 286         | Vertical     |
| 5149.344        | 45.87          | 54.00          | -8.13       | RMS       | 334       | 246         | Vertical     |
| 5353.143        | 46.97          | 54.00          | -7.03       | RMS       | 339       | 284         | Vertical     |
| 5364.197        | 58.68          | 74.00          | -15.32      | Peak      | 360       | 306         | Vertical     |
| 5459.526        | 40.92          | 54.00          | -13.08      | RMS       | 291       | 394         | Horizontal   |

**Table 9 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 40 GHz**

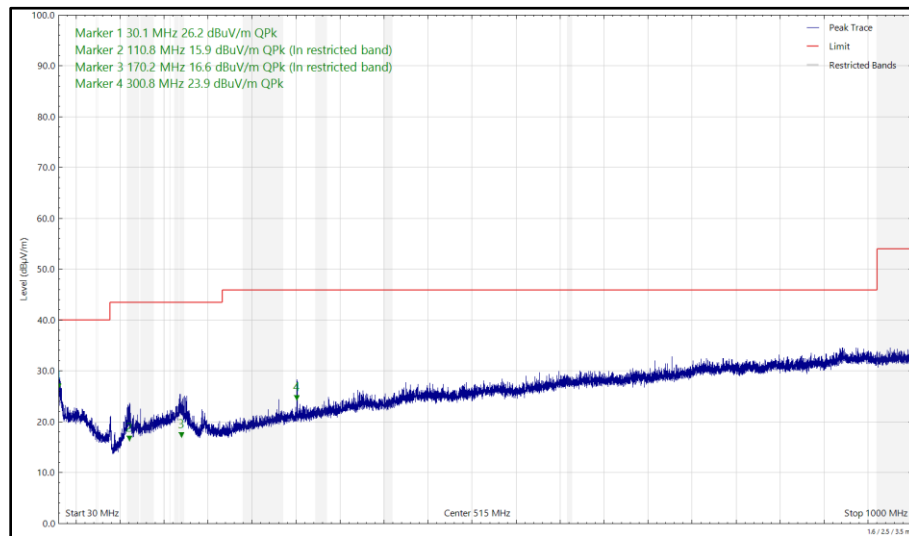
No other emissions found within 10 dB of the limit.



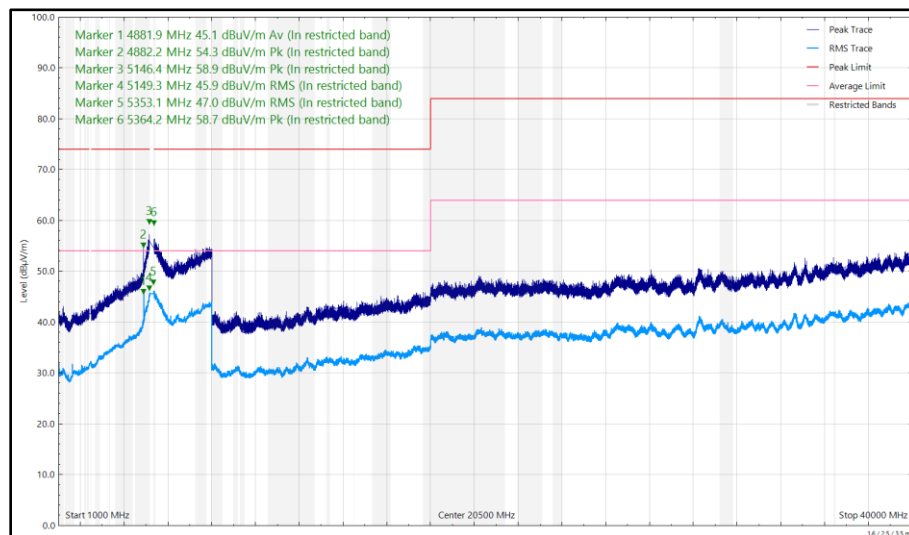
**Figure 14 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 15 - U-NII-1 – 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal**



**Figure 16 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)**



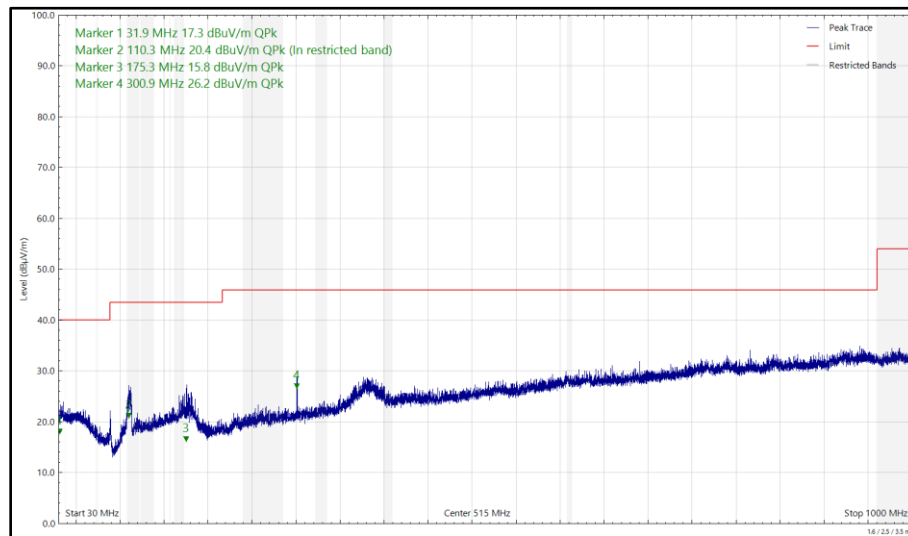
**Figure 17 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical**



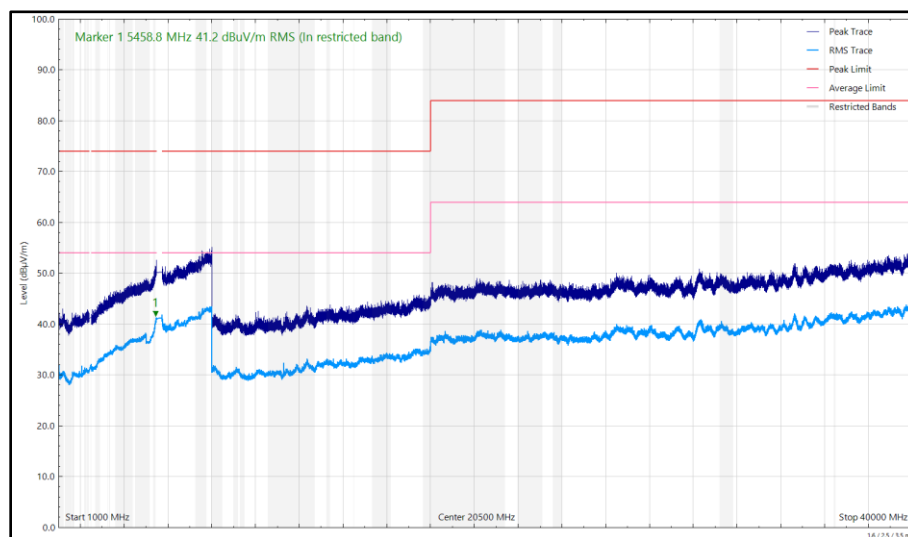
| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 30.001          | 25.76          | 40.00          | -14.24      | Q-Peak    | 267       | 105         | Vertical     |
| 31.898          | 17.31          | 40.00          | -22.69      | Q-Peak    | 278       | 100         | Horizontal   |
| 109.388         | 14.76          | 43.50          | -28.74      | Q-Peak    | 243       | 110         | Vertical     |
| 110.264         | 20.42          | 43.50          | -23.08      | Q-Peak    | 169       | 279         | Horizontal   |
| 170.602         | 16.24          | 43.50          | -27.26      | Q-Peak    | 355       | 100         | Vertical     |
| 175.281         | 15.80          | 43.50          | -27.70      | Q-Peak    | 159       | 169         | Horizontal   |
| 300.853         | 25.45          | 46.00          | -20.55      | Q-Peak    | 350       | 241         | Vertical     |
| 300.858         | 26.22          | 46.00          | -19.78      | Q-Peak    | 267       | 100         | Horizontal   |
| 4881.798        | 43.38          | 54.00          | -10.62      | CISPR Avg | 0         | 291         | Vertical     |
| 5458.755        | 41.17          | 54.00          | -12.83      | RMS       | 290       | 344         | Horizontal   |
| 5458.970        | 57.55          | 74.00          | -16.45      | Peak      | 350       | 296         | Vertical     |
| 5459.585        | 45.95          | 54.00          | -8.05       | RMS       | 358       | 305         | Vertical     |

**Table 10 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 40 GHz**

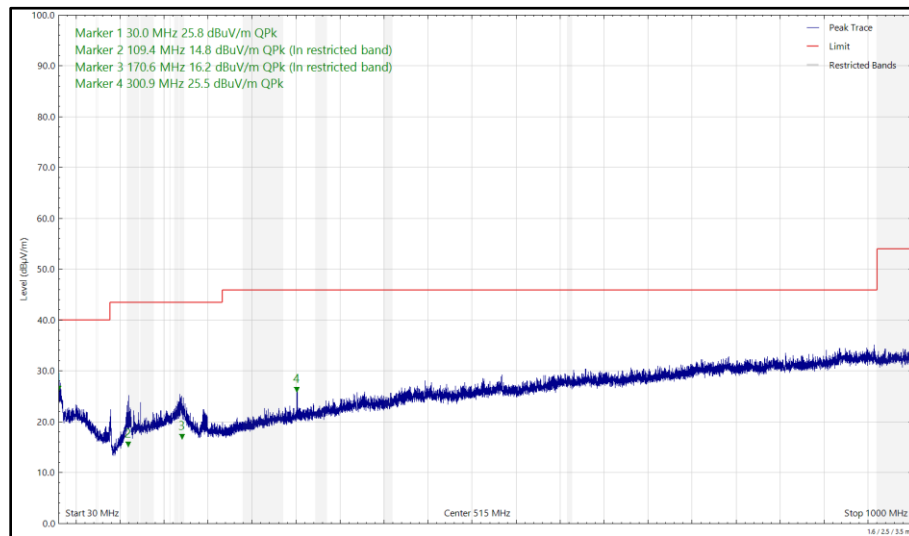
No other emissions found within 10 dB of the limit.



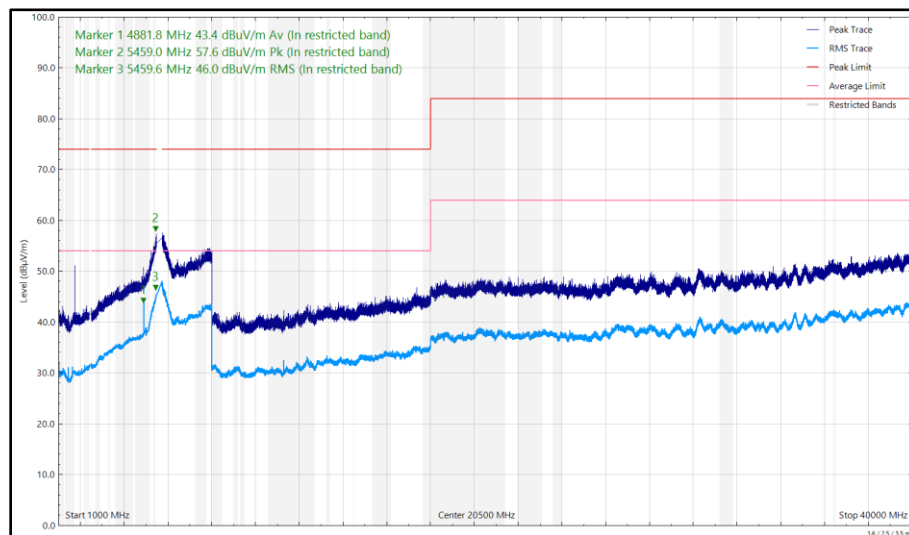
**Figure 18 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 19 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal**



**Figure 20 - U-NII-2C – 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)**



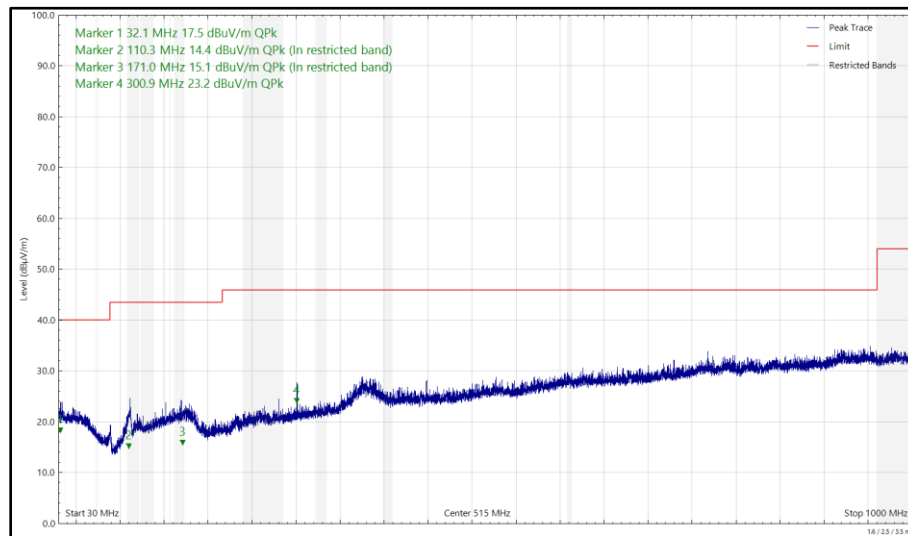
**Figure 21 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical**



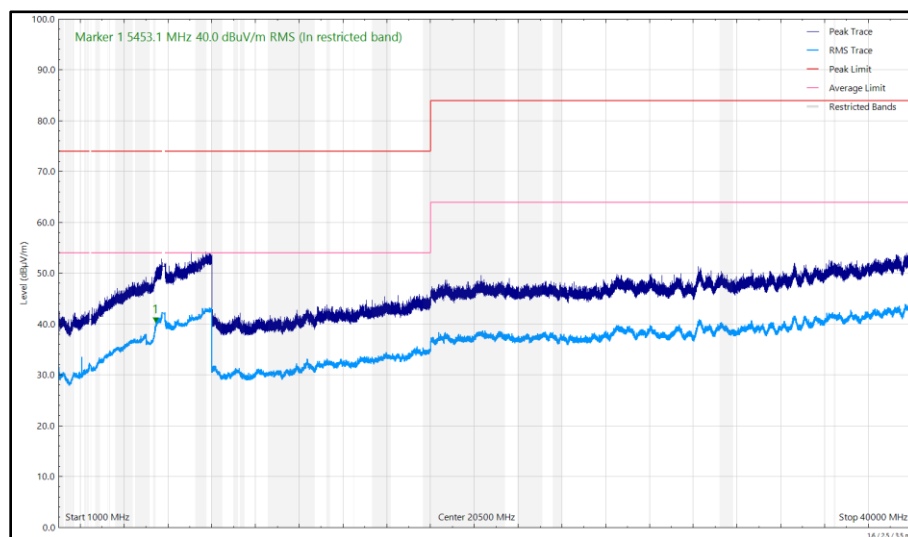
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 30.014          | 24.60          | 40.00          | -15.40      | Q-Peak    | 356       | 119         | Vertical     |
| 32.054          | 17.53          | 40.00          | -22.47      | Q-Peak    | 120       | 100         | Horizontal   |
| 110.344         | 14.36          | 43.50          | -29.14      | Q-Peak    | 1         | 346         | Horizontal   |
| 110.672         | 15.23          | 43.50          | -28.27      | Q-Peak    | 246       | 132         | Vertical     |
| 169.257         | 14.89          | 43.50          | -28.61      | Q-Peak    | 360       | 104         | Vertical     |
| 171.009         | 15.05          | 43.50          | -28.45      | Q-Peak    | 351       | 182         | Horizontal   |
| 300.842         | 23.39          | 46.00          | -22.61      | Q-Peak    | 360       | 268         | Vertical     |
| 300.861         | 23.24          | 46.00          | -22.76      | Q-Peak    | 234       | 119         | Horizontal   |
| 4882.008        | 39.39          | 54.00          | -14.61      | CISPR Avg | 334       | 258         | Vertical     |
| 5446.015        | 57.13          | 74.00          | -16.87      | Peak      | 0         | 317         | Vertical     |
| 5453.102        | 39.96          | 54.00          | -14.04      | RMS       | 288       | 337         | Horizontal   |
| 5459.764        | 44.28          | 54.00          | -9.72       | RMS       | 1         | 303         | Vertical     |

**Table 11 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 40 GHz**

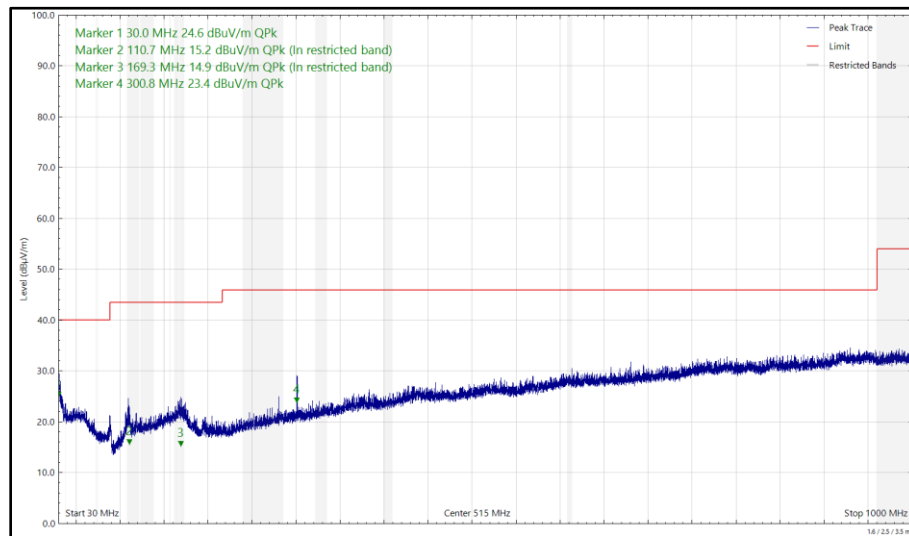
No other emissions found within 10 dB of the limit.



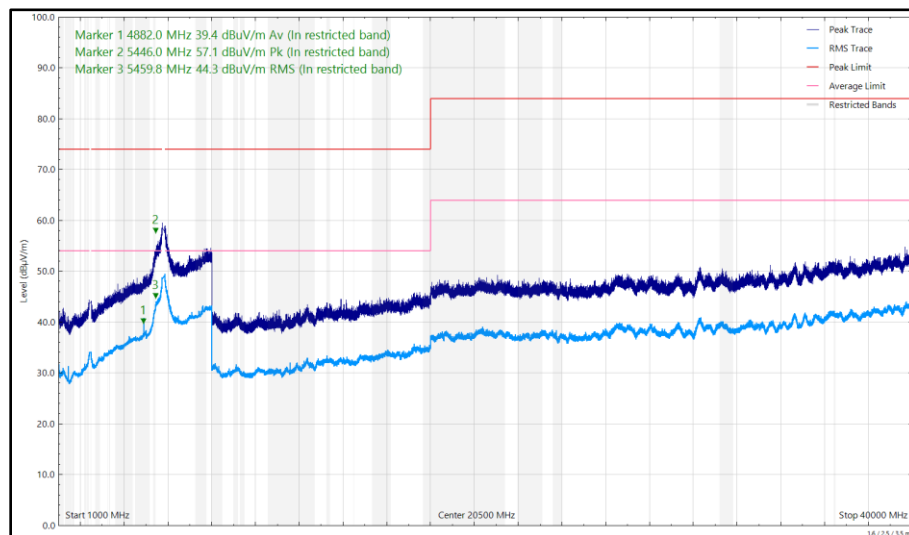
**Figure 22 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 23 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal**



**Figure 24 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)**



**Figure 25 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical**



FCC 47 CFR Part 15

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                                                                               |
| Part 15.407 (b) | -27 dBm e.i.r.p                                                                       |
| Part 15.209     | Peak: 74 dB $\mu$ V/m at 3m, Average 54 dB $\mu$ V/m at 3m (Restricted bands > 1 GHz) |

**Table 12**

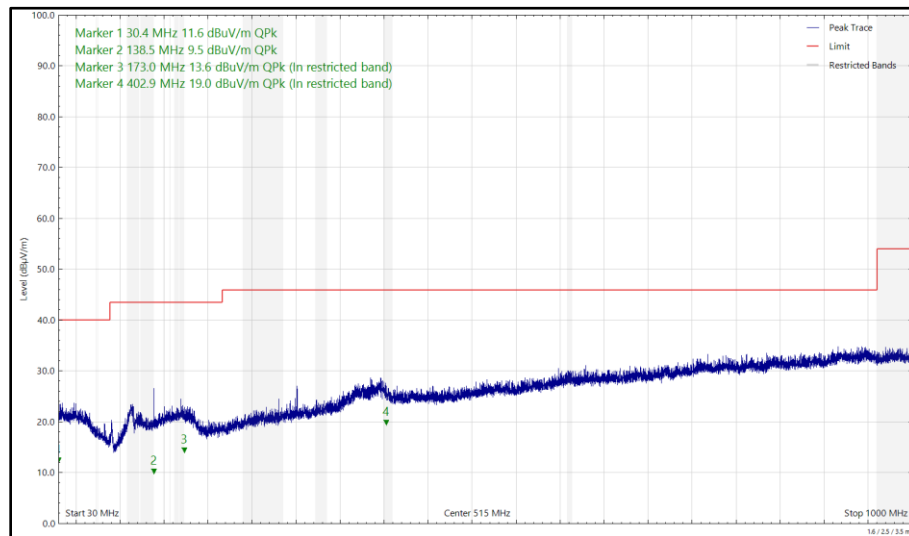


#### 6 GHz WLAN and 2.4 GHz Bluetooth

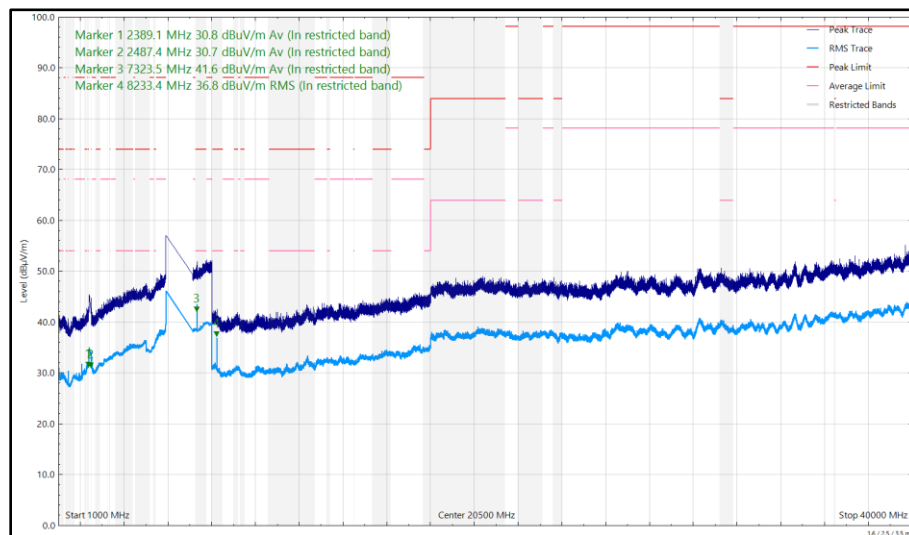
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 30.000          | 24.73          | 40.00          | -15.27      | Q-Peak    | 301       | 100         | Vertical     |
| 30.445          | 11.59          | 40.00          | -28.41      | Q-Peak    | 168       | 400         | Horizontal   |
| 138.474         | 9.47           | 43.50          | -34.03      | Q-Peak    | 11        | 202         | Horizontal   |
| 153.851         | 10.40          | 43.50          | -33.10      | Q-Peak    | 351       | 400         | Vertical     |
| 168.430         | 14.43          | 43.50          | -29.07      | Q-Peak    | 360       | 103         | Vertical     |
| 172.963         | 13.59          | 43.50          | -29.91      | Q-Peak    | 345       | 241         | Horizontal   |
| 402.919         | 18.98          | 46.00          | -27.02      | Q-Peak    | 0         | 110         | Horizontal   |
| 2389.109        | 30.79          | 54.00          | -23.21      | CISPR Avg | 56        | 373         | Horizontal   |
| 2389.239        | 32.59          | 54.00          | -21.41      | CISPR Avg | 350       | 366         | Vertical     |
| 2483.536        | 34.10          | 54.00          | -19.90      | CISPR Avg | 25        | 352         | Vertical     |
| 2487.376        | 30.66          | 54.00          | -23.34      | CISPR Avg | 48        | 386         | Horizontal   |
| 4200.075        | 33.90          | 54.00          | -20.10      | RMS       | 245       | 166         | Vertical     |
| 4881.923        | 36.11          | 54.00          | -17.89      | CISPR Avg | 6         | 398         | Vertical     |
| 5458.907        | 39.30          | 54.00          | -14.70      | RMS       | 359       | 309         | Vertical     |
| 7322.418        | 43.20          | 54.00          | -10.80      | CISPR Avg | 342       | 295         | Vertical     |
| 7322.829        | 56.41          | 74.00          | -17.59      | Peak      | 340       | 300         | Vertical     |
| 7323.480        | 41.62          | 54.00          | -12.38      | CISPR Avg | 299       | 389         | Horizontal   |
| 8233.360        | 38.97          | 54.00          | -15.03      | RMS       | 38        | 244         | Vertical     |
| 8233.375        | 36.77          | 54.00          | -17.23      | RMS       | 89        | 325         | Horizontal   |

**Table 13 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

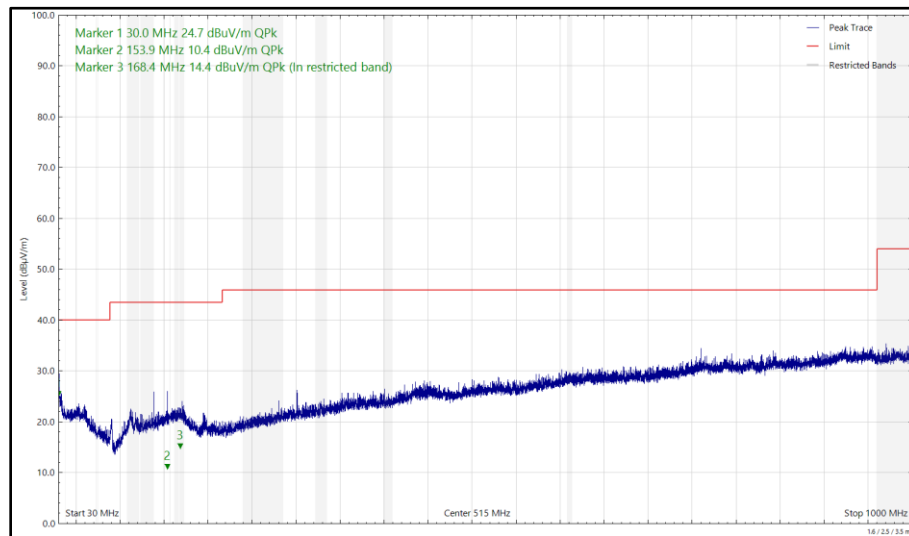
No other emissions found within 10 dB of the limit.



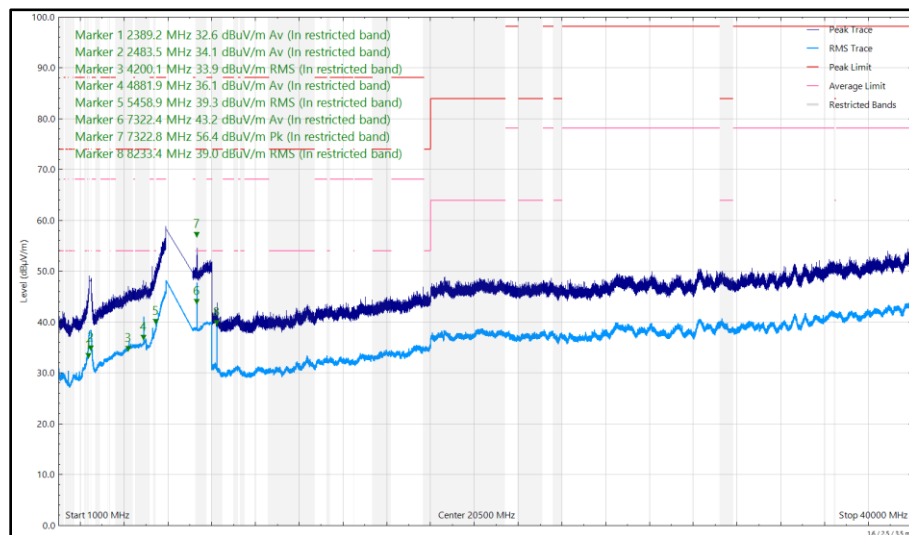
**Figure 26 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 27 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 28 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



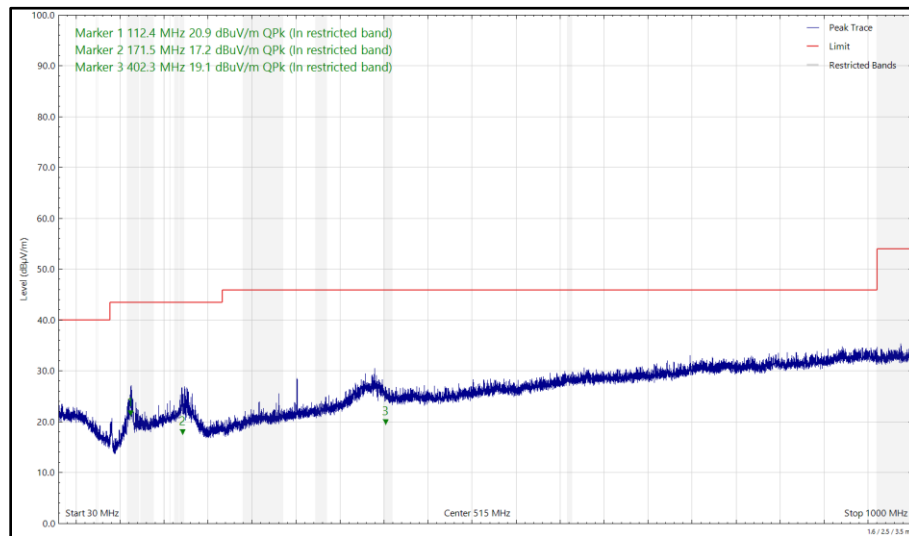
**Figure 29 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**



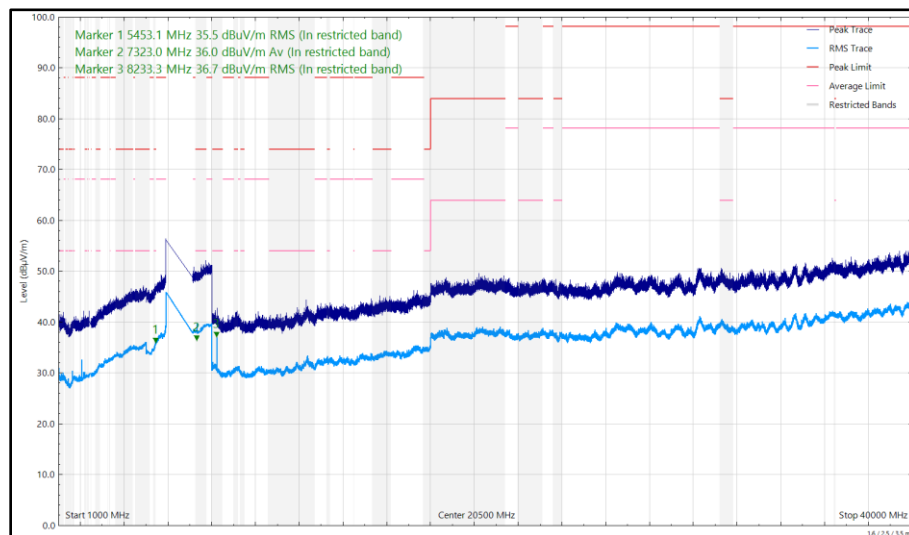
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 30.089          | 24.14          | 40.00          | -15.86      | Q-Peak    | 176       | 135         | Vertical     |
| 111.674         | 14.77          | 43.50          | -28.73      | Q-Peak    | 284       | 348         | Vertical     |
| 112.404         | 20.85          | 43.50          | -22.65      | Q-Peak    | 170       | 278         | Horizontal   |
| 169.570         | 16.65          | 43.50          | -26.85      | Q-Peak    | 358       | 100         | Vertical     |
| 171.489         | 17.17          | 43.50          | -26.33      | Q-Peak    | 338       | 258         | Horizontal   |
| 402.284         | 19.09          | 46.00          | -26.91      | Q-Peak    | 3         | 104         | Horizontal   |
| 4200.100        | 33.90          | 54.00          | -20.10      | RMS       | 33        | 118         | Vertical     |
| 4881.953        | 38.47          | 54.00          | -15.53      | CISPR Avg | 3         | 390         | Vertical     |
| 5451.697        | 39.38          | 54.00          | -14.62      | RMS       | 3         | 304         | Vertical     |
| 5453.108        | 35.53          | 54.00          | -18.47      | RMS       | 244       | 319         | Horizontal   |
| 7322.709        | 37.55          | 54.00          | -16.45      | CISPR Avg | 20        | 200         | Vertical     |
| 7323.043        | 35.97          | 54.00          | -18.03      | CISPR Avg | 298       | 397         | Horizontal   |
| 8233.325        | 36.72          | 54.00          | -17.28      | RMS       | 100       | 336         | Horizontal   |
| 8233.335        | 38.91          | 54.00          | -15.09      | RMS       | 57        | 271         | Vertical     |

**Table 14 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 40 GHz**

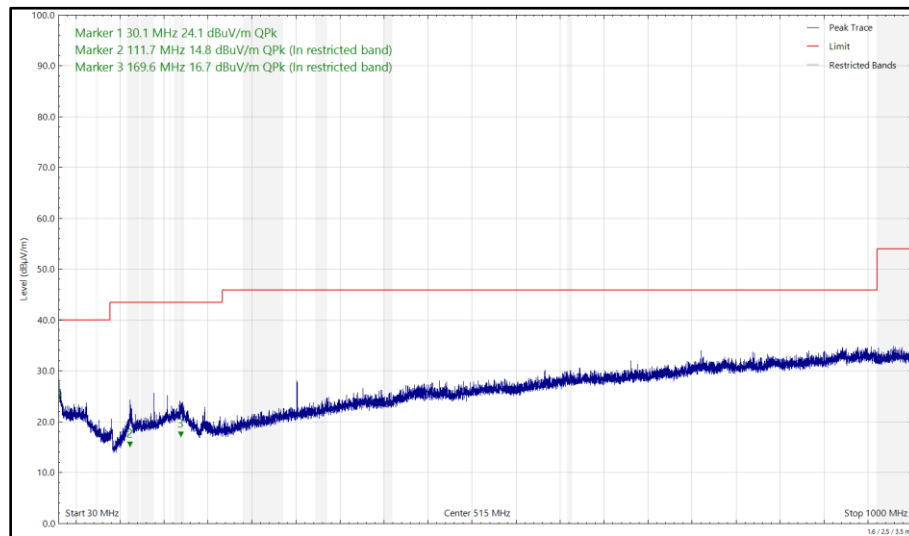
No other emissions found within 10 dB of the limit.



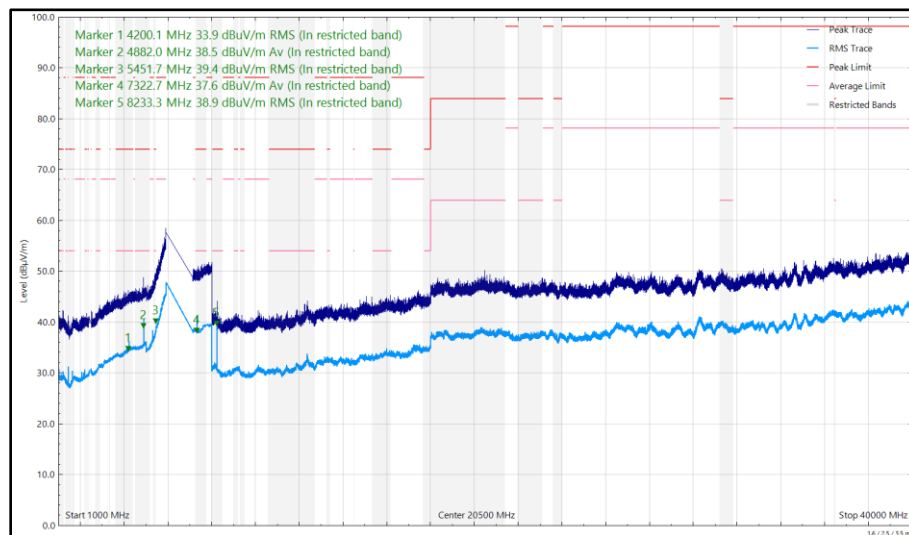
**Figure 30 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 31 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal**



**Figure 32 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)**



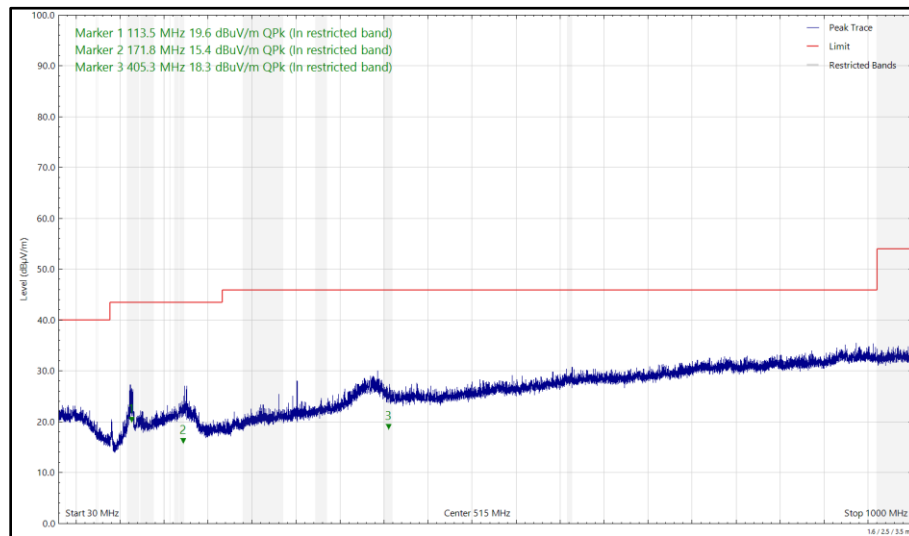
**Figure 33 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical**



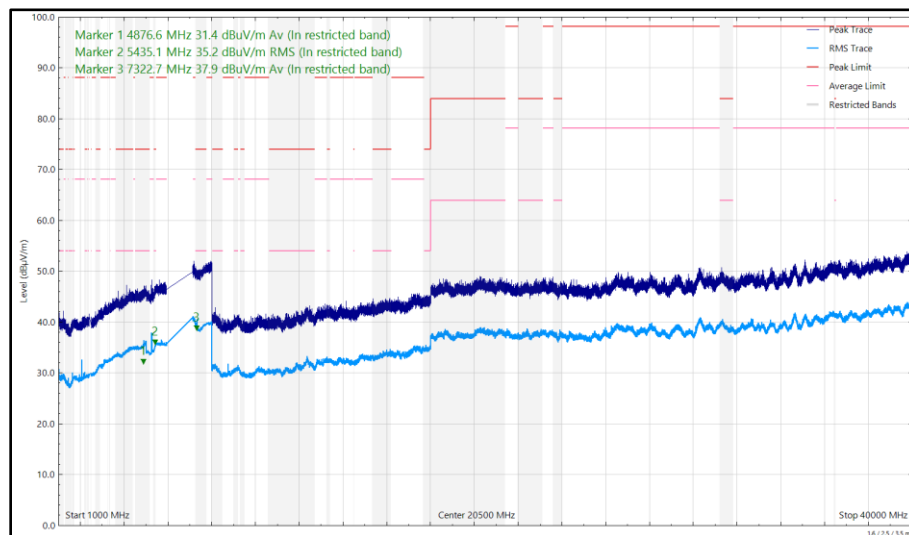
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 30.011          | 24.54          | 40.00          | -15.46      | Q-Peak    | 92        | 104         | Vertical     |
| 112.490         | 14.75          | 43.50          | -28.75      | Q-Peak    | 356       | 105         | Vertical     |
| 113.547         | 19.56          | 43.50          | -23.94      | Q-Peak    | 177       | 270         | Horizontal   |
| 138.486         | 9.14           | 43.50          | -34.36      | Q-Peak    | 218       | 368         | Vertical     |
| 170.996         | 15.44          | 43.50          | -28.06      | Q-Peak    | 350       | 110         | Vertical     |
| 171.796         | 15.42          | 43.50          | -28.08      | Q-Peak    | 3         | 271         | Horizontal   |
| 405.310         | 18.26          | 46.00          | -27.74      | Q-Peak    | 2         | 100         | Horizontal   |
| 4205.134        | 33.86          | 54.00          | -20.14      | RMS       | 248       | 153         | Vertical     |
| 4876.594        | 31.38          | 54.00          | -22.62      | CISPR Avg | 167       | 351         | Horizontal   |
| 4881.708        | 39.96          | 54.00          | -14.04      | CISPR Avg | 360       | 282         | Vertical     |
| 5435.086        | 35.22          | 54.00          | -18.78      | RMS       | 51        | 362         | Horizontal   |
| 5455.931        | 36.88          | 54.00          | -17.12      | RMS       | 350       | 317         | Vertical     |
| 7322.654        | 37.94          | 54.00          | -16.06      | CISPR Avg | 70        | 393         | Horizontal   |
| 7322.789        | 39.39          | 54.00          | -14.61      | CISPR Avg | 14        | 268         | Vertical     |

**Table 15 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 40 GHz**

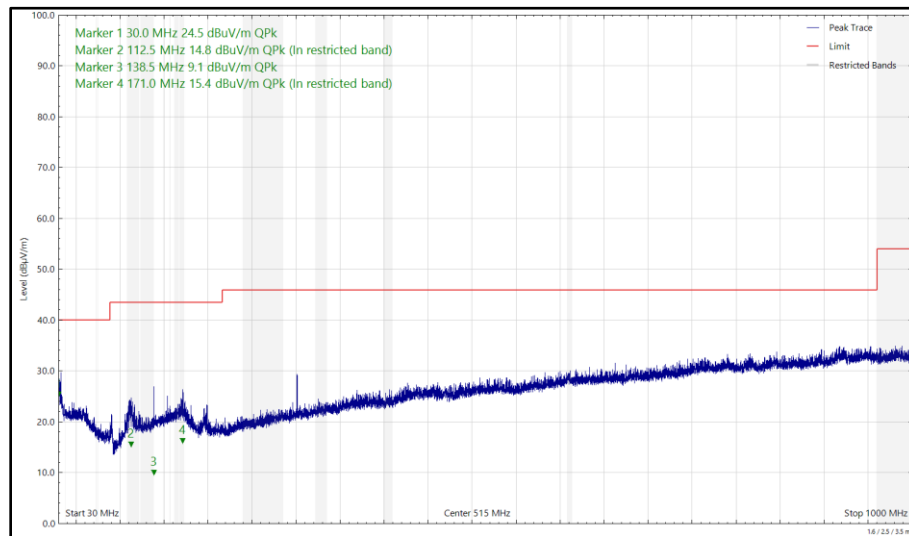
No other emissions found within 10 dB of the limit.



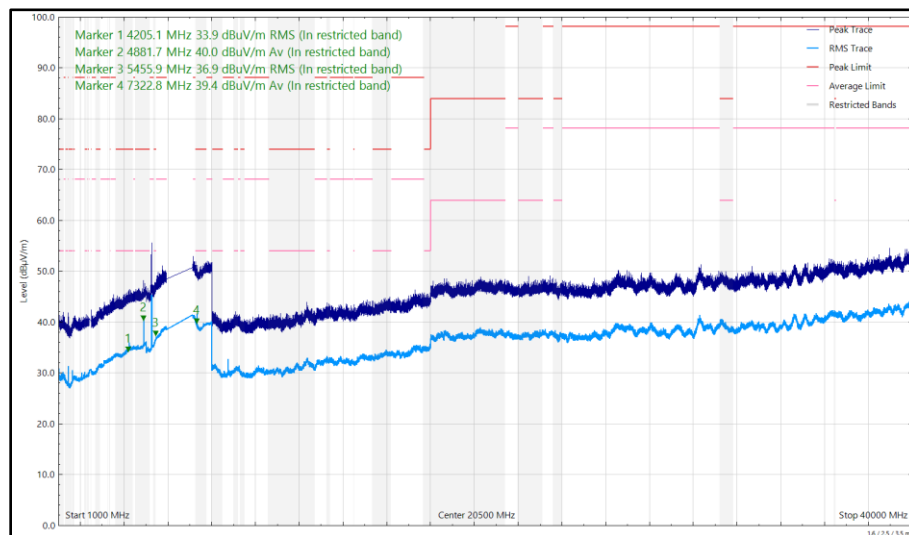
**Figure 34 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 35 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal**



**Figure 36 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)**



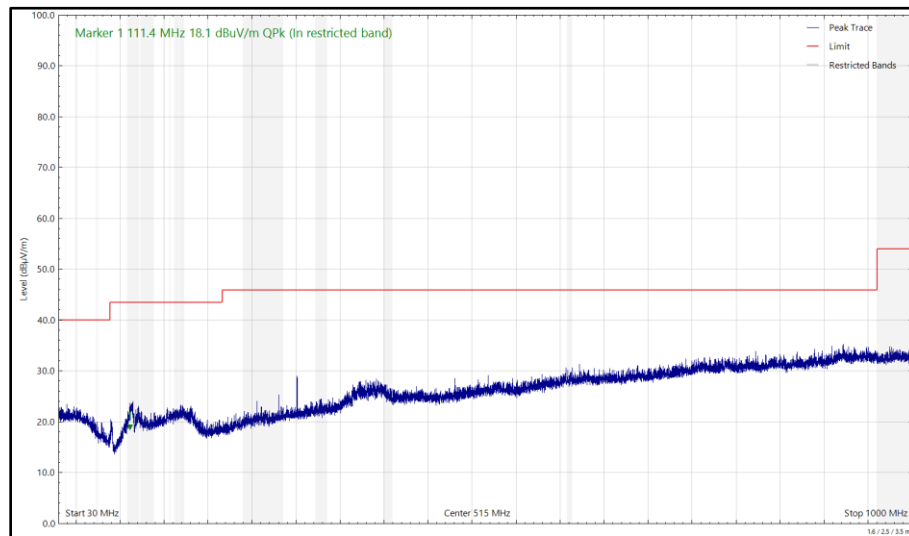
**Figure 37 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical**



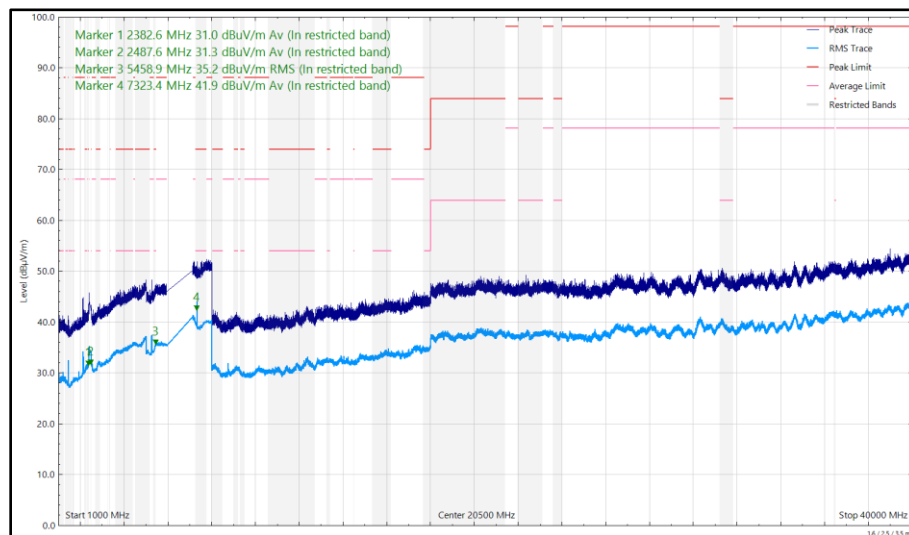
| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 30.053          | 24.14          | 40.00          | -15.86      | Q-Peak    | 289       | 113         | Vertical     |
| 111.373         | 18.11          | 43.50          | -25.39      | Q-Peak    | 350       | 294         | Horizontal   |
| 2382.554        | 31.01          | 54.00          | -22.99      | CISPR Avg | 53        | 400         | Horizontal   |
| 2389.059        | 34.64          | 54.00          | -19.36      | CISPR Avg | 360       | 313         | Vertical     |
| 2484.826        | 35.91          | 54.00          | -18.09      | CISPR Avg | 21        | 329         | Vertical     |
| 2487.576        | 31.25          | 54.00          | -22.75      | CISPR Avg | 56        | 375         | Horizontal   |
| 4211.928        | 34.27          | 54.00          | -19.73      | RMS       | 27        | 391         | Vertical     |
| 4881.676        | 36.33          | 54.00          | -17.67      | CISPR Avg | 5         | 329         | Vertical     |
| 5458.935        | 35.17          | 54.00          | -18.83      | RMS       | 350       | 151         | Horizontal   |
| 5459.954        | 37.11          | 54.00          | -16.89      | RMS       | 2         | 299         | Vertical     |
| 7322.295        | 56.09          | 74.00          | -17.91      | Peak      | 344       | 240         | Vertical     |
| 7322.440        | 42.41          | 54.00          | -11.59      | CISPR Avg | 341       | 259         | Vertical     |
| 7323.417        | 41.91          | 54.00          | -12.09      | CISPR Avg | 298       | 400         | Horizontal   |

**Table 16 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

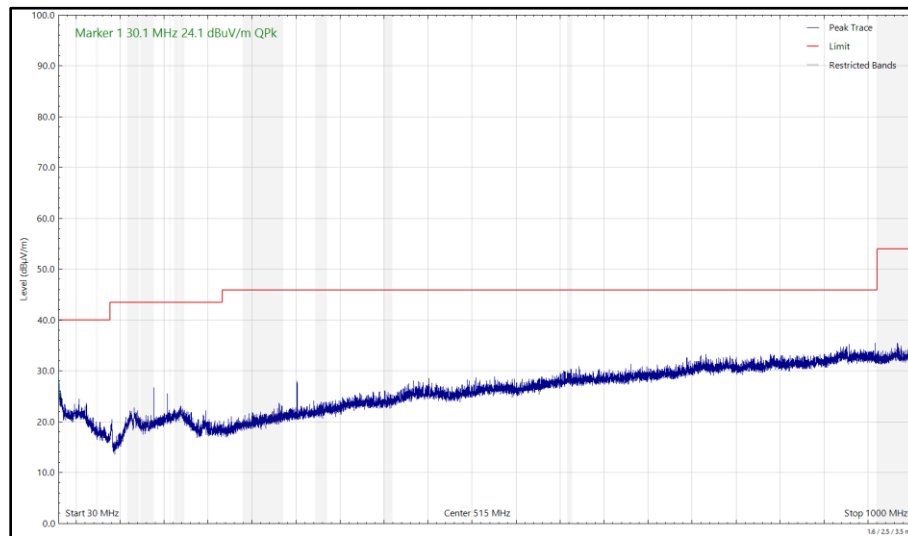
No other emissions found within 10 dB of the limit.



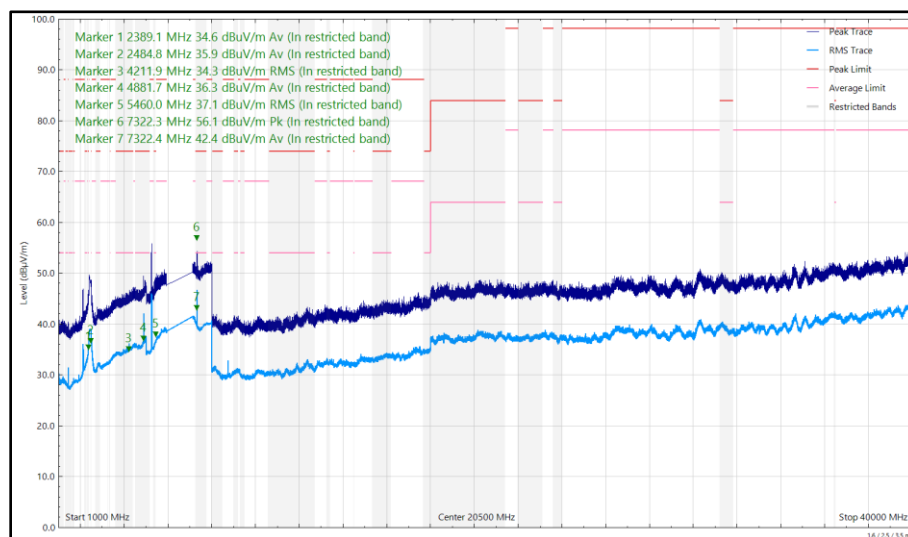
**Figure 38 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 39 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 40 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



**Figure 41 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

#### FCC 47 CFR Part 15

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                                                                   |
| Part 15.407 (b) | Peak: -7 dBm/MHz e.i.r.p, Average: -27 dBm/MHz e.i.r.p.                   |
| Part 15.209     | Peak: 74 dBμV/m at 3m, Average 54 dBμV/m at 3m (Restricted bands > 1 GHz) |

**Table 17**



## 2.4 GHz WLAN and Narrowband

| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 30.089          | 25.80          | 40.00          | -14.20      | Q-Peak   | 247       | 103         | Vertical     |
| 114.035         | 17.64          | 43.50          | -25.86      | Q-Peak   | 0         | 254         | Horizontal   |
| 279.982         | 19.81          | 46.00          | -26.19      | Q-Peak   | 72        | 102         | Horizontal   |
| 2388.689        | 57.47          | 74.00          | -16.53      | Peak     | 358       | 306         | Vertical     |
| 2389.966        | 41.67          | 54.00          | -12.33      | RMS      | 350       | 275         | Vertical     |
| 2389.993        | 36.21          | 54.00          | -17.79      | RMS      | 48        | 400         | Horizontal   |
| 2483.525        | 41.69          | 54.00          | -12.31      | RMS      | 302       | 370         | Horizontal   |
| 2483.655        | 46.55          | 54.00          | -7.45       | RMS      | 14        | 317         | Vertical     |
| 2484.024        | 63.39          | 74.00          | -10.61      | Peak     | 9         | 338         | Vertical     |

**Table 18 - 2442MHz (CH7), HT20, Core 0 and 5204MHz (CH5204), DH5, ePA, Core 1, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.

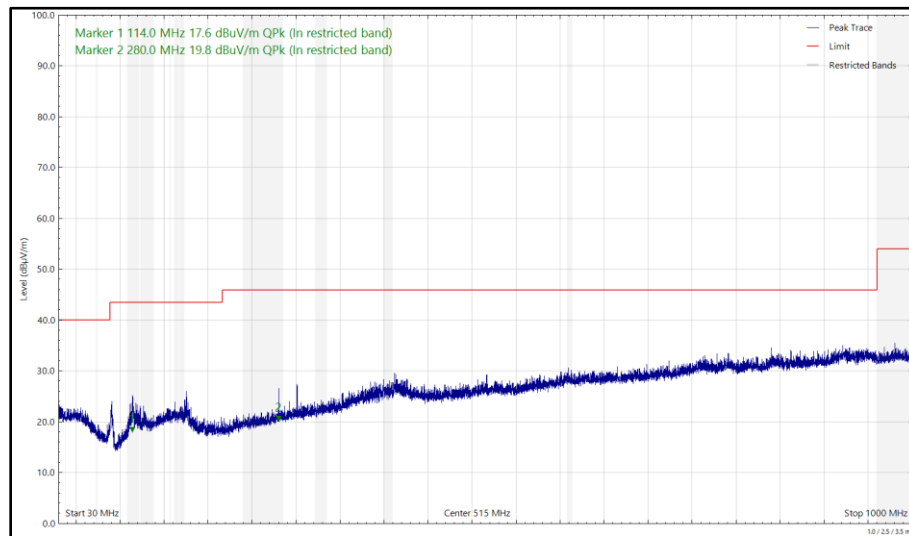


Figure 42 - 2442MHz (CH7), HT20, Core 0 and 5204MHz (CH5204), DH5, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

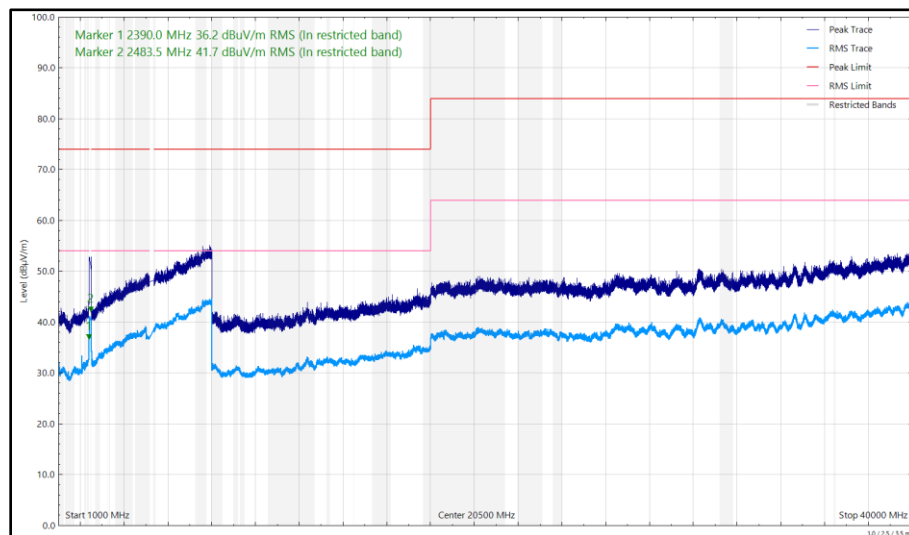


Figure 43 - 2442MHz (CH7), HT20, Core 0 and 5204MHz (CH5204), DH5, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

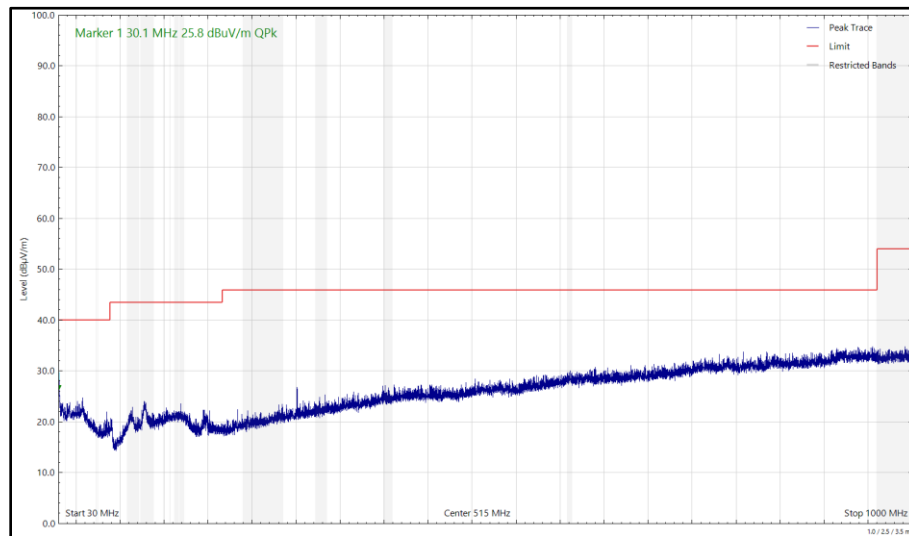


Figure 44 - 2442MHz (CH7), HT20, Core 0 and 5204MHz (CH5204), DH5, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

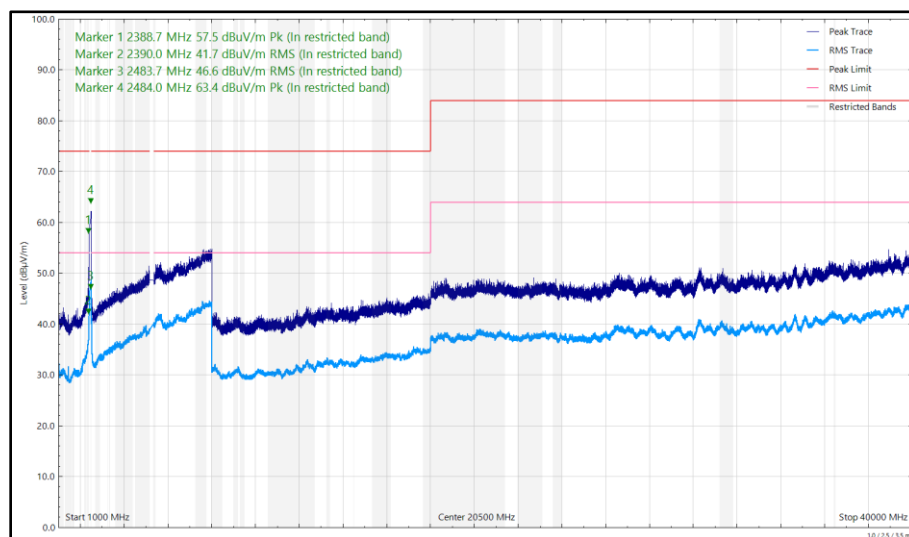


Figure 45 - 2442MHz (CH7), HT20, Core 0 and 5204MHz (CH5204), DH5, ePA, Core 1, 1 GHz to 40 GHz, Vertical



| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 112.924         | 19.06          | 43.50          | -24.44      | Q-Peak   | 7         | 108         | Vertical     |
| 174.642         | 15.83          | 43.50          | -27.67      | Q-Peak   | 75        | 155         | Horizontal   |
| 280.010         | 21.77          | 46.00          | -24.23      | Q-Peak   | 92        | 126         | Horizontal   |
| 2389.617        | 56.71          | 74.00          | -17.29      | Peak     | 2         | 363         | Vertical     |
| 2389.891        | 36.52          | 54.00          | -17.48      | RMS      | 50        | 369         | Horizontal   |
| 2389.964        | 41.08          | 54.00          | -12.92      | RMS      | 10        | 335         | Vertical     |
| 2399.726        | 60.95          | 74.00          | -13.05      | Peak     | 343       | 291         | Vertical     |
| 2483.584        | 40.46          | 54.00          | -13.54      | RMS      | 39        | 389         | Horizontal   |
| 2483.801        | 46.36          | 54.00          | -7.64       | RMS      | 10        | 334         | Vertical     |
| 2484.133        | 62.49          | 74.00          | -11.51      | Peak     | 15        | 310         | Vertical     |
| 2501.152        | 57.08          | 74.00          | -16.92      | Peak     | 356       | 385         | Vertical     |
| 5374.590        | 43.91          | 54.00          | -10.09      | RMS      | 0         | 340         | Vertical     |

**Table 19 - 2442MHz (CH7), HT20, Core 0 and 5788MHz (CH5788), DH5, ePA, Core 1, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.

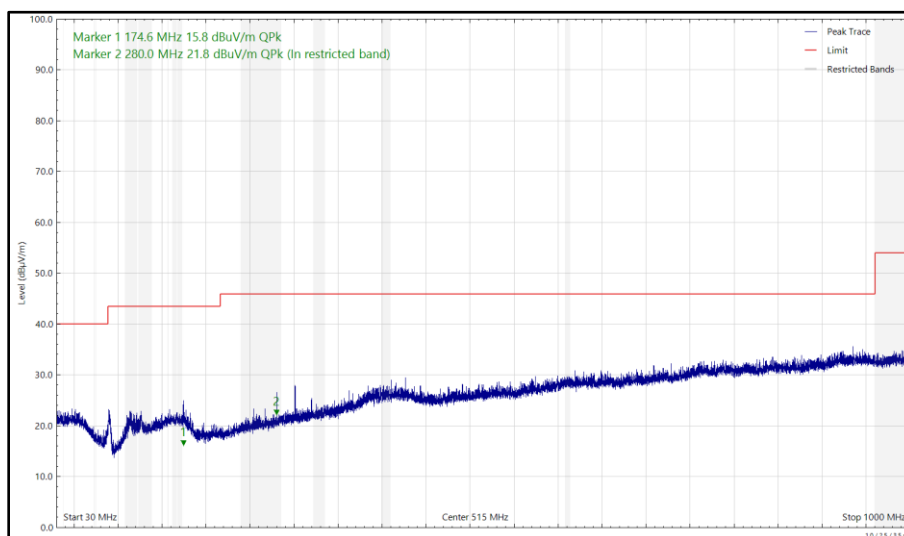


Figure 46 - 2442MHz (CH7), HT20, Core 0 and 5788MHz (CH5788), DH5, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

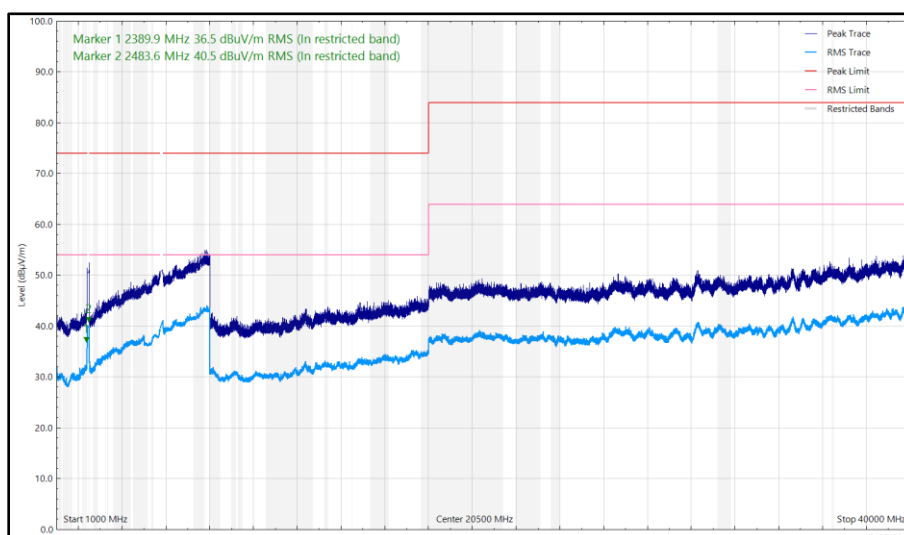


Figure 47 - 2442MHz (CH7), HT20, Core 0 and 5788MHz (CH5788), DH5, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

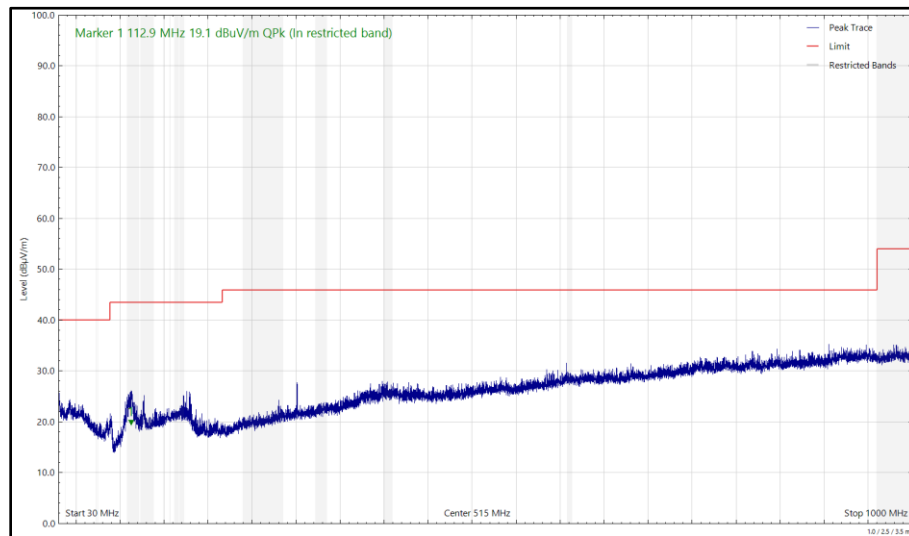


Figure 48 - 2442MHz (CH7), HT20, Core 0 and 5788MHz (CH5788), DH5, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

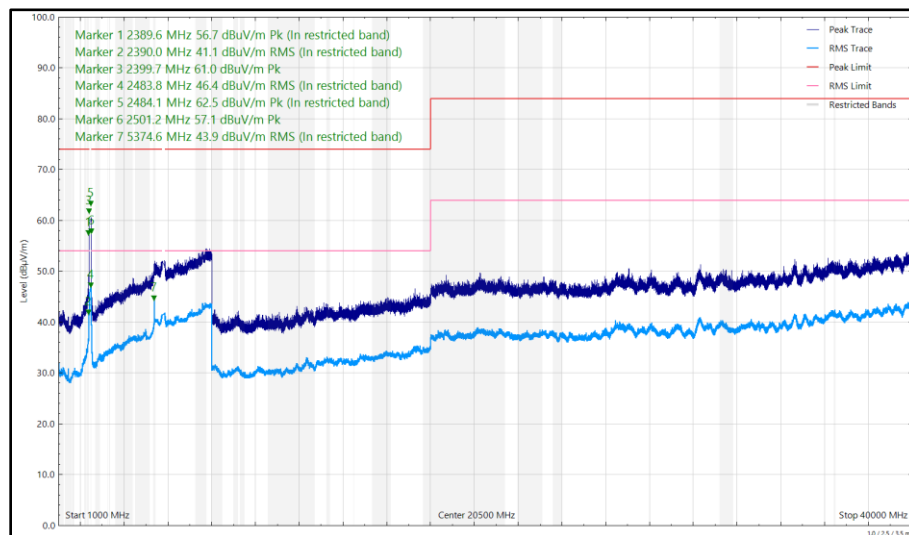


Figure 49 - 2442MHz (CH7), HT20, Core 0 and 5788MHz (CH5788), DH5, ePA, Core 1, 1 GHz to 40 GHz, Vertical



| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 30.243          | 21.32          | 40.00          | -18.68      | Q-Peak   | 40        | 104         | Vertical     |
| 112.549         | 19.25          | 43.50          | -24.25      | Q-Peak   | 0         | 115         | Vertical     |
| 279.997         | 21.89          | 46.00          | -24.11      | Q-Peak   | 112       | 114         | Horizontal   |
| 2389.935        | 36.10          | 54.00          | -17.90      | RMS      | 43        | 376         | Horizontal   |
| 2389.972        | 38.37          | 54.00          | -15.63      | RMS      | 16        | 305         | Vertical     |
| 2483.509        | 45.97          | 54.00          | -8.03       | RMS      | 47        | 396         | Vertical     |
| 2483.576        | 42.25          | 54.00          | -11.75      | RMS      | 54        | 392         | Horizontal   |
| 2484.506        | 59.99          | 74.00          | -14.01      | Peak     | 54        | 398         | Horizontal   |
| 2484.685        | 64.90          | 74.00          | -9.10       | Peak     | 39        | 386         | Vertical     |
| 4883.468        | 37.27          | 54.00          | -16.73      | RMS      | 0         | 100         | Vertical     |

**Table 20 - 2442MHz (CH7), HT20, Core 1 and 5204MHz (CH5204), DH5, ePA, Core 0, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.

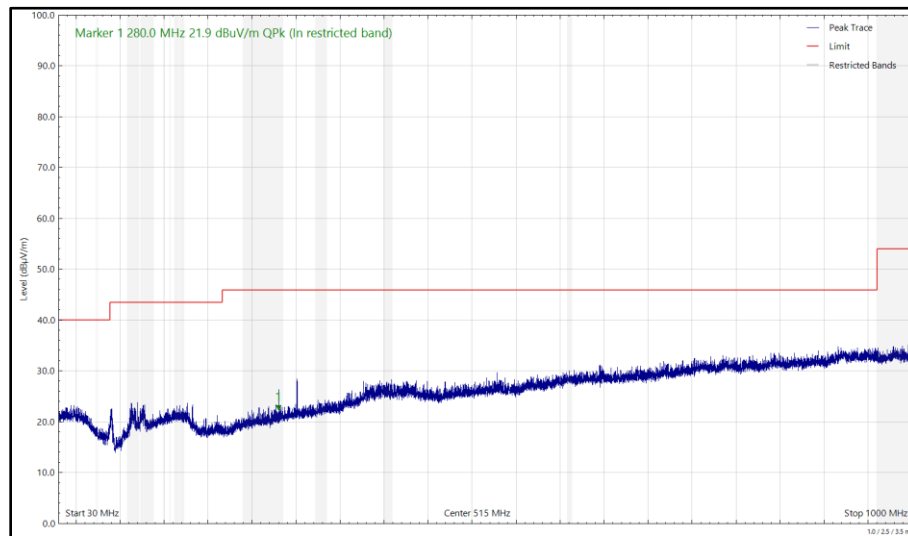


Figure 50 - 2442MHz (CH7), HT20, Core 1 and 5204MHz (CH5204), DH5, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

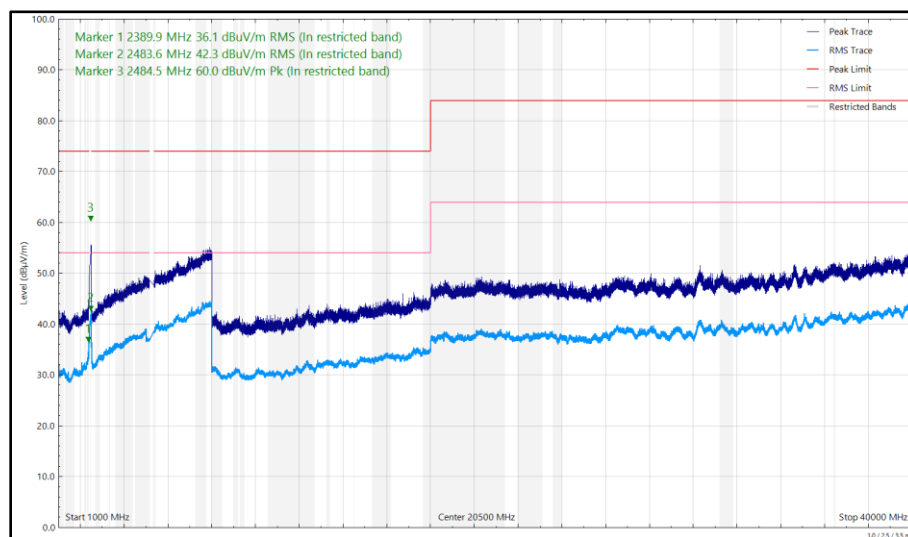


Figure 51 - 2442MHz (CH7), HT20, Core 1 and 5204MHz (CH5204), DH5, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

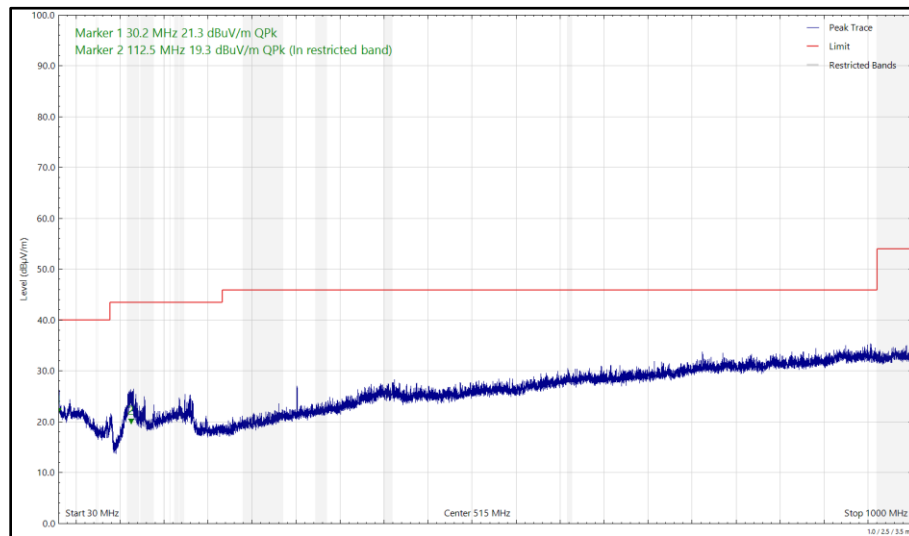


Figure 52 - 2442MHz (CH7), HT20, Core 1 and 5204MHz (CH5204), DH5, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

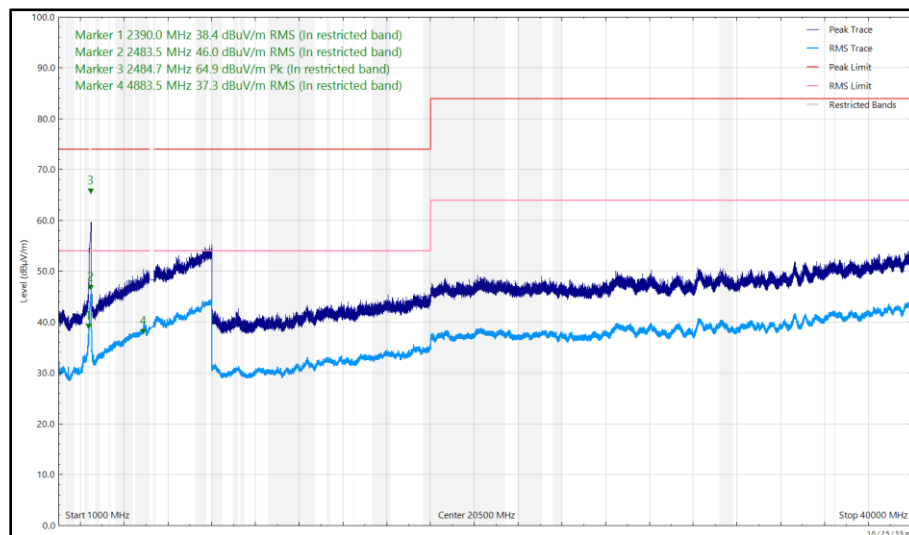


Figure 53 - 2442MHz (CH7), HT20, Core 1 and 5204MHz (CH5204), DH5, ePA, Core 0, 1 GHz to 40 GHz, Vertical



| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 30.033          | 21.64          | 40.00          | -18.36      | Q-Peak   | 0         | 110         | Vertical     |
| 111.541         | 19.00          | 43.50          | -24.50      | Q-Peak   | 4         | 100         | Vertical     |
| 280.000         | 21.43          | 46.00          | -24.57      | Q-Peak   | 66        | 115         | Horizontal   |
| 2389.754        | 38.68          | 54.00          | -15.32      | RMS      | 37        | 393         | Vertical     |
| 2389.827        | 36.56          | 54.00          | -17.44      | RMS      | 52        | 380         | Horizontal   |
| 2483.504        | 45.72          | 54.00          | -8.28       | RMS      | 43        | 396         | Vertical     |
| 2483.634        | 41.35          | 54.00          | -12.65      | RMS      | 57        | 389         | Horizontal   |
| 2485.026        | 58.95          | 74.00          | -15.05      | Peak     | 57        | 387         | Horizontal   |
| 2485.968        | 63.84          | 74.00          | -10.16      | Peak     | 41        | 389         | Vertical     |
| 4883.022        | 38.73          | 54.00          | -15.27      | RMS      | 7         | 282         | Vertical     |
| 5374.541        | 37.05          | 54.00          | -16.95      | RMS      | 58        | 295         | Horizontal   |
| 5374.576        | 40.19          | 54.00          | -13.81      | RMS      | 356       | 226         | Vertical     |

**Table 21 - 2442MHz (CH7), HT20, Core 1 and 5788MHz (CH5788), DH5, ePA, Core 0, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.