

# FCC and ISED Test Report

Apple Inc  
Model: A3448



In accordance with FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-248 and ISED RSS-GEN (2.4 GHz Bluetooth, 2.4 GHz WLAN, 5 GHz WLAN, 6 GHz WLAN, Narrowband and Thread)

TUV SUD SERVICES (UK) LIMITED  
Digitally signed by TUV SUD SERVICES (UK) LIMITED  
Date: 2026.02.02 17:24:57 Z

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

FCC ID: BCGA3448 IC: 579C-A3448

COMMERCIAL-IN-CONFIDENCE

Document 75964010-44 Issue 01



## SIGNATURE

| NAME             | JOB TITLE       | RESPONSIBLE FOR      | ISSUE DATE       |
|------------------|-----------------|----------------------|------------------|
| Stephen Marshall | Senior Engineer | Authorised Signatory | 02 February 2026 |

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, ISED RSS-247, ISED RSS-248 and ISED RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR   | NAME            | DATE             | SIGNATURE |
|-------------------|-----------------|------------------|-----------|
| Report Generating | Rachael Watkins | 02 February 2026 |           |

FCC Accreditation 553713/UK2026 Concorde Park, Fareham Test Laboratory  
ISED Accreditation 28798/UK0003 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: 2024, ISED RSS-247: Issue 4 (2025-07), ISED RSS-248: Issue 3 (2024-10) and ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02) 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. © 2026 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

|          |                                                               |            |
|----------|---------------------------------------------------------------|------------|
| <b>1</b> | <b>Report Summary .....</b>                                   | <b>2</b>   |
| 1.1      | Report Modification Record.....                               | 2          |
| 1.2      | Introduction.....                                             | 2          |
| 1.3      | Brief Summary of Results .....                                | 3          |
| 1.4      | Product Information .....                                     | 6          |
| 1.5      | Deviations from the Standard.....                             | 6          |
| 1.6      | Identification of the EUT .....                               | 6          |
| 1.7      | EUT Modification Record .....                                 | 6          |
| 1.8      | Test Location .....                                           | 7          |
| <b>2</b> | <b>Test Details .....</b>                                     | <b>9</b>   |
| 2.1      | Radiated Spurious Emissions (Simultaneous Transmission) ..... | 9          |
| <b>3</b> | <b>Measurement Uncertainty .....</b>                          | <b>118</b> |



# 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           | 02 February 2026 |

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: 2024<br>ISED RSS-247: Issue 4 (2025-07)<br>ISED RSS-248: Issue 3 (2024-10)<br>ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02)         |
| Start of Test                 | 28-December-2025                                                                                                                                         |
| Finish of Test                | 26-January-2026                                                                                                                                          |
| Name of Engineer(s)           | Zeeshan Zia, Nathan Ocom, Ian Hart, Colin Brain, Morsalin Hossain, Dulanjan Witharamalage, Ian Hart, Ioan-Alexandru Bogatu, Tony Baby, Ahmed Al Derdiri. |
| Related Document(s)           | ANSI C63.26 (2015)<br>ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024<br>ANSI C63.4 (2014)                                                                   |



### 1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15, ISSED RSS-247, ISSED RSS-248 and ISSED RSS-GEN is shown below.

| Section                                                                        | Specification Clause            |             |         |              | Test Description                                        | Result | Comments/Base Standard                                                                                          |
|--------------------------------------------------------------------------------|---------------------------------|-------------|---------|--------------|---------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------|
|                                                                                | Part 15                         | RSS-247     | RSS-248 | RSS-GEN      |                                                         |        |                                                                                                                 |
| Configuration and Mode: 5 GHz WLAN and 2.4 GHz Bluetooth                       |                                 |             |         |              |                                                         |        |                                                                                                                 |
| 2.1                                                                            | 15.209, 15.247(d) and 15.407(b) | 6.6 and 7.3 | -       | 6.13 and 8.9 | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024<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) | 6.6         | 4.6.2   | 6.13 and 8.9 | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v03 |
| Configuration and Mode: 5 GHz WLAN and Thread                                  |                                 |             |         |              |                                                         |        |                                                                                                                 |
| 2.1                                                                            | 15.209, 15.247(d) and 15.407(b) | 6.6 and 7.3 | -       | 6.13 and 8.9 | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024<br>KDB 789033 D02 v02r01                       |
| Configuration and Mode: 6 GHz WLAN and Thread                                  |                                 |             |         |              |                                                         |        |                                                                                                                 |
| 2.1                                                                            | 15.209, 15.247(d) and 15.407(b) | 6.6         | 4.6.2   | 6.13 and 8.9 | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v03 |
| Configuration and Mode 2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz Narrowband |                                 |             |         |              |                                                         |        |                                                                                                                 |
| 2.1                                                                            | 15.209, 15.247(d) and 15.407(b) | 6.6 and 7.3 | -       | 6.13 and 8.9 | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024<br>KDB 789033 D02 v02r01                       |



| Section                                                                        | Specification Clause                  |             |       |              | Test Description                                           | Result | Comments/Base Standard                                                                                              |
|--------------------------------------------------------------------------------|---------------------------------------|-------------|-------|--------------|------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------|
| Configuration and Mode 2.4 GHz WLAN and 2.4 GHz Bluetooth and 6 GHz Narrowband |                                       |             |       |              |                                                            |        |                                                                                                                     |
| 2.1                                                                            | 15.209,<br>15.247(d) and<br>15.407(b) | 6.6         | 4.6.2 | 6.13 and 8.9 | Radiated Spurious Emissions<br>(Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-<br>2023+C63.10a-2024<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v03 |
| Configuration and Mode 2.4 GHz WLAN and Thread and 5 GHz Narrowband            |                                       |             |       |              |                                                            |        |                                                                                                                     |
| 2.1                                                                            | 15.209,<br>15.247(d) and<br>15.407(b) | 6.6 and 7.3 | -     | 6.13 and 8.9 | Radiated Spurious Emissions<br>(Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-<br>2023+C63.10a-2024<br>KDB 789033 D02 v02r01                       |
| Configuration and Mode 2.4 GHz WLAN and Thread and 6 GHz Narrowband            |                                       |             |       |              |                                                            |        |                                                                                                                     |
| 2.1                                                                            | 15.209,<br>15.247(d) and<br>15.407(b) | 6.6         | 4.6.2 | 6.13 and 8.9 | Radiated Spurious Emissions<br>(Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-<br>2023+C63.10a-2024<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v03 |
| Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz WLAN      |                                       |             |       |              |                                                            |        |                                                                                                                     |
| 2.1                                                                            | 15.209,<br>15.247(d) and<br>15.407(b) | 6.6 and 7.3 |       | 6.13 and 8.9 | Radiated Spurious Emissions<br>(Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-<br>2023+C63.10a-2024<br>KDB 789033 D02 v02r01                       |
| Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 6 GHz WLAN      |                                       |             |       |              |                                                            |        |                                                                                                                     |
| 2.1                                                                            | 15.209,<br>15.247(d) and<br>15.407(b) | 6.6         | 4.6.2 | 6.13 and 8.9 | Radiated Spurious Emissions<br>(Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-<br>2023+C63.10a-2024<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v03 |
| Configuration and Mode: 2.4 GHz WLAN and Thread and 5 GHz WLAN                 |                                       |             |       |              |                                                            |        |                                                                                                                     |
| 2.1                                                                            | 15.209,<br>15.247(d) and<br>15.407(b) | 6.6 and 7.3 |       | 6.13 and 8.9 | Radiated Spurious Emissions<br>(Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-<br>2023+C63.10a-2024<br>KDB 789033 D02 v02r01                       |
| Configuration and Mode: 2.4 GHz WLAN and Thread and 6 GHz WLAN                 |                                       |             |       |              |                                                            |        |                                                                                                                     |
| 2.1                                                                            | 15.209,<br>15.247(d) and<br>15.407(b) | 6.6         | 4.6.2 | 6.13 and 8.9 | Radiated Spurious Emissions<br>(Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020) +Cor.1-<br>2023+C63.10a-2024                                                |



| Section | Specification Clause |  |  |  | Test Description | Result | Comments/Base Standard                      |
|---------|----------------------|--|--|--|------------------|--------|---------------------------------------------|
|         |                      |  |  |  |                  |        | KDB 789033 D02 v02r01<br>KDB 987594 D02 v03 |

**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: A3448  |                  |                  |
| Serial Number | Hardware Version | Software Version |
| C6FYGFCX3L    | REV1.0           | 25D21            |

**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: A3448, Serial Number: C6FYGFCX3L |                                                 |                        |                          |
| 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)                         | Nathan Ocom, Morsalin Hossain, Colin Brain, Tony Baby                                | UKAS          |
| Configuration and Mode: 6 GHz WLAN and 2.4 GHz Bluetooth                        |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Morsalin Hossain, Manohar Thota, Tony Baby, Colin Brain                              | UKAS          |
| Configuration and Mode: 5 GHz WLAN and Thread                                   |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Morsalin Hossain, Colin Brain, Tony Baby                                             | UKAS          |
| Configuration and Mode: 6 GHz WLAN and Thread                                   |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Colin Brain, Tony Baby, Manohar Thota                                                | UKAS          |
| Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz Narrowband |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Colin Brain, Zeeshan Zia, Nathan Ocom, Ahmed Al Derdiri                              | UKAS          |
| Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 6 GHz Narrowband |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Zeeshan Zia, Colin Brain, Nathan Ocom, Ahmed Al Derdiri                              | UKAS          |
| Configuration and Mode: 2.4 GHz WLAN and Thread and 5 GHz Narrowband            |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Colin Brain, Zeeshan Zia, Nathan Ocom, Ian Broomhall, Ahmed Al Derdiri, Gridi Bilali | UKAS          |
| Configuration and Mode: 2.4 GHz WLAN and Thread and 6 GHz Narrowband            |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Zeeshan Zia, Ian Broomhall, Nathan Ocomm, Gridi Bilali                               | UKAS          |
| Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz WLAN       |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Ioan-Alexandru Bogatu, Zeeshan Zia, Morsalin Hossain                                 | UKAS          |
| Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 6 GHz WLAN       |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Morsalin Hossain, Zeeshan Zia                                                        | UKAS          |
| Configuration and Mode: 2.4 GHz WLAN and Thread and 5 GHz WLAN                  |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Ioan-Alexandru Bogatu, Gridi Bilali, Zeeshan Zia, Morsalin Hossain                   | UKAS          |
| Configuration and Mode: 2.4 GHz WLAN and Thread and 6 GHz WLAN                  |                                                                                      |               |
| Radiated Spurious Emissions (Simultaneous Transmission)                         | Gridi Bilali, Ioan-Alexandru Bogatu, Zeeshan Zia, Morsalin Hossain                   | 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)  
ISED RSS-247, Clause 6.6 and 7.3  
ISED RSS-248, Clause 4.6  
ISED RSS-GEN, Clause 6.13 and 8.9

#### 2.1.2 Equipment Under Test and Modification State

A3448, S/N: C6FYGFCX3L - Modification State 0

#### 2.1.3 Date of Test

28-December-2025 to 15-January-2026 and 22-January-2026 to 26-January-2026

#### 2.1.4 Test Method

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.

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 dBµV/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 dBµV/m to µV/m:  
 $10^{(Field\ Strength\ in\ dB\mu V/m/20)}$ .

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  $20 \cdot \log(3/1) = 9.54$  dB.

Radiated spurious emissions tests have been conducted in HDR4 (high power) mode for Narrowband technology as this represents the worst case with respect to Power and PSD.



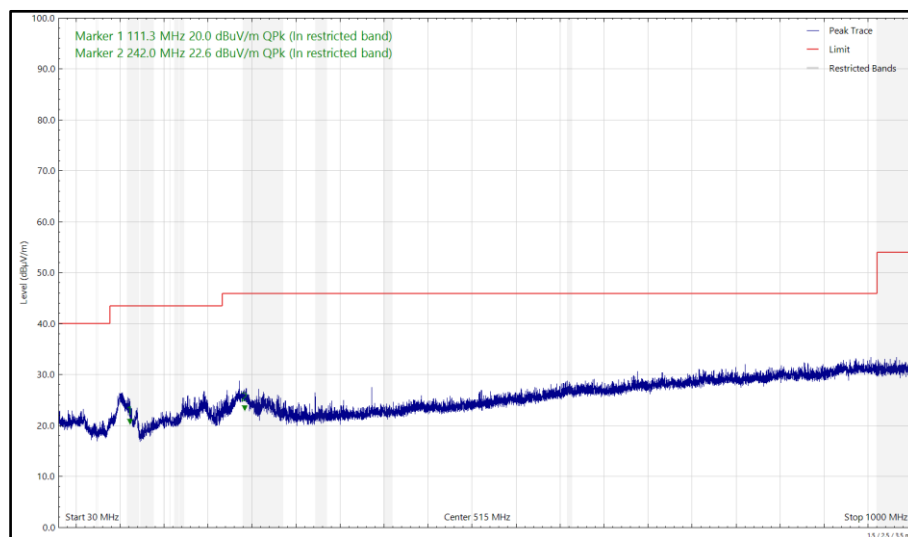
## 2.1.7 Test Results

### 5 GHz WLAN and 2.4 GHz Bluetooth

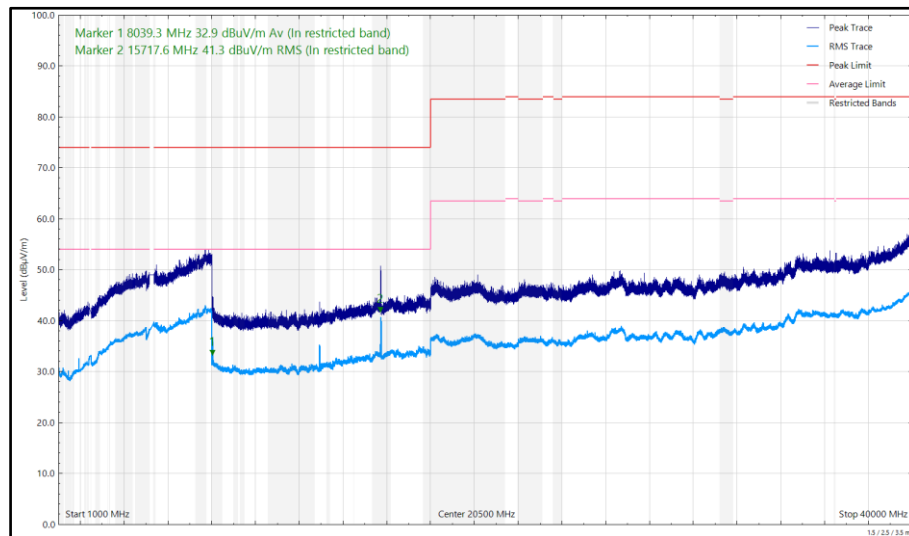
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 37.765          | 21.98          | 40.00          | -18.02      | Q-Peak    | 354       | 269         | Vertical     |
| 111.340         | 19.98          | 43.50          | -23.52      | Q-Peak    | 177       | 389         | Horizontal   |
| 165.563         | 21.52          | 43.50          | -21.98      | Q-Peak    | 97        | 390         | Vertical     |
| 172.940         | 24.03          | 43.50          | -19.47      | Q-Peak    | 311       | 100         | Vertical     |
| 242.007         | 22.63          | 46.00          | -23.37      | Q-Peak    | 200       | 206         | Horizontal   |
| 2388.345        | 32.81          | 54.00          | -21.19      | CISPR Avg | 355       | 356         | Vertical     |
| 2484.026        | 33.86          | 54.00          | -20.14      | CISPR Avg | 360       | 347         | Vertical     |
| 4882.402        | 40.48          | 54.00          | -13.52      | CISPR Avg | 10        | 326         | Vertical     |
| 4993.680        | 40.27          | 54.00          | -13.73      | CISPR Avg | 10        | 311         | Vertical     |
| 5144.945        | 55.92          | 74.00          | -18.08      | Peak      | 17        | 330         | Vertical     |
| 5384.416        | 57.01          | 74.00          | -16.99      | Peak      | 331       | 300         | Vertical     |
| 8039.276        | 32.87          | 54.00          | -21.13      | CISPR Avg | 284       | 328         | Horizontal   |
| 8040.954        | 37.58          | 54.00          | -16.42      | CISPR Avg | 329       | 244         | Vertical     |
| 15717.553       | 41.28          | 54.00          | -12.72      | RMS       | 283       | 377         | Horizontal   |
| 15722.844       | 41.62          | 54.00          | -12.38      | RMS       | 339       | 320         | Vertical     |

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

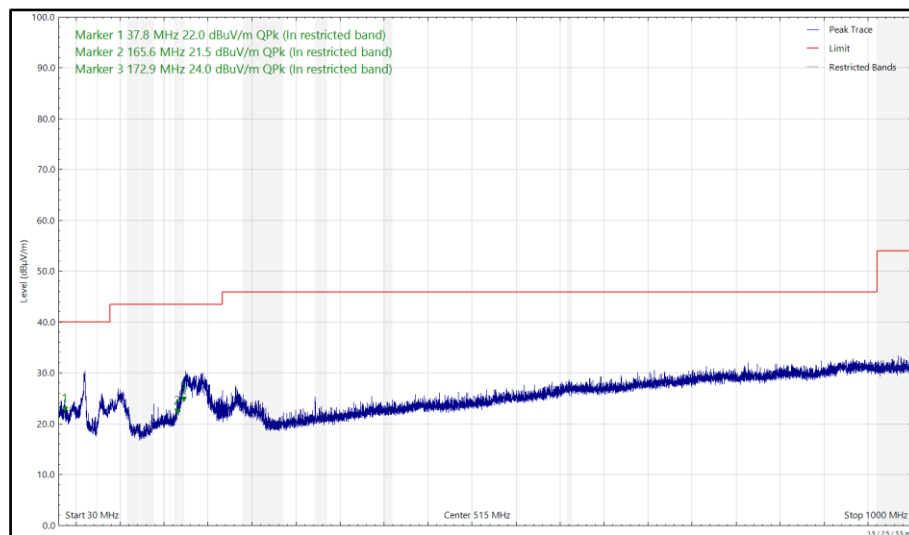
No other emissions found within 20 dB of the limit.



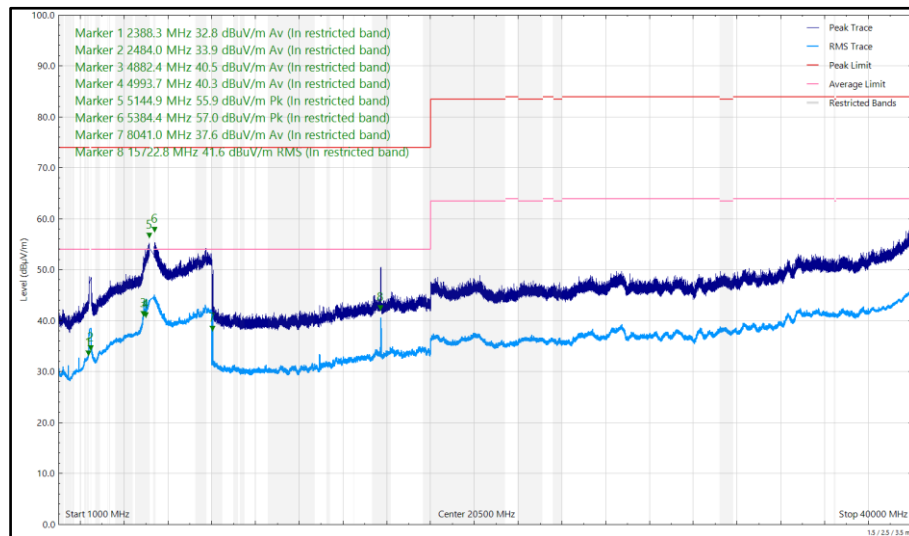
**Figure 2 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



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



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

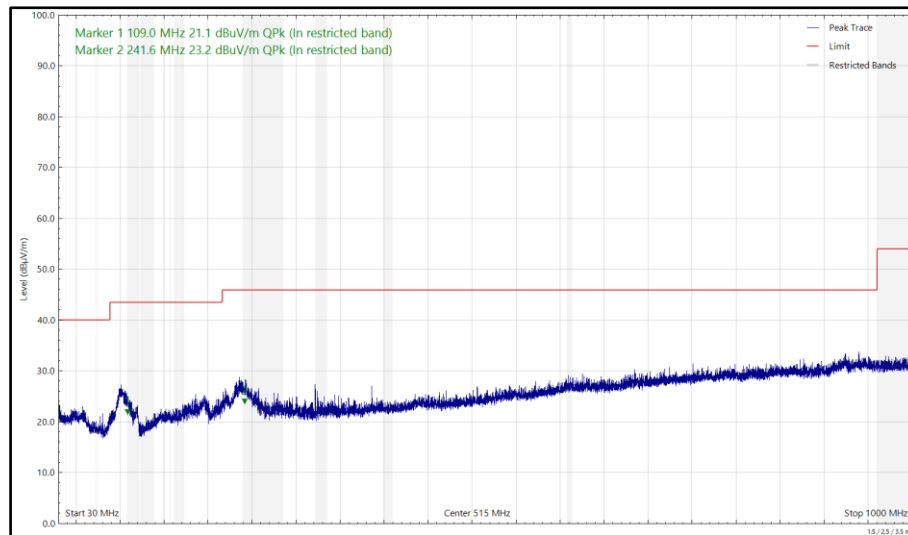


**Figure 5 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

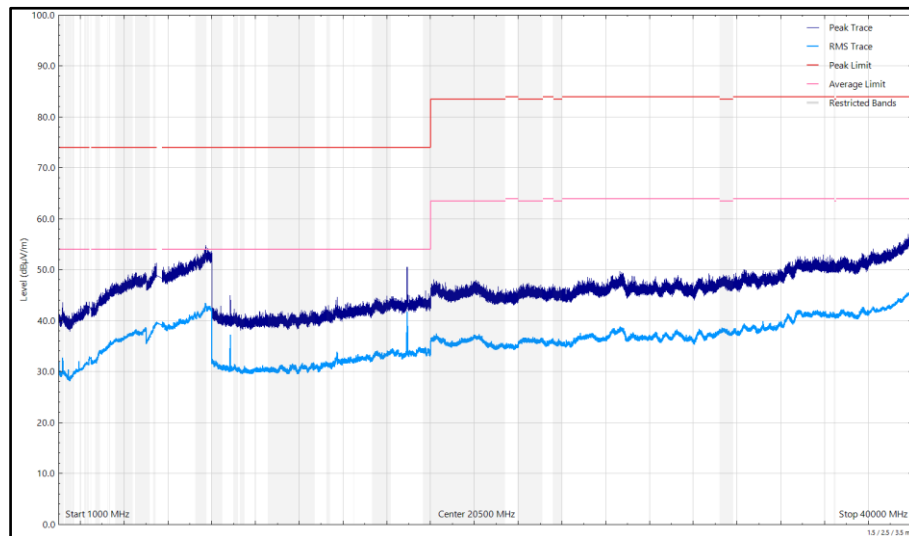
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|-----------|-----------|-------------|--------------|
| 74.351          | 19.25                | 40.00                | -20.75      | Q-Peak    | 184       | 347         | Vertical     |
| 108.958         | 21.06                | 43.50                | -22.44      | Q-Peak    | 3         | 314         | Horizontal   |
| 169.214         | 22.50                | 43.50                | -21.00      | Q-Peak    | 351       | 139         | Vertical     |
| 241.614         | 23.19                | 46.00                | -22.81      | Q-Peak    | 350       | 273         | Horizontal   |
| 2387.753        | 33.21                | 54.00                | -20.79      | CISPR Avg | 360       | 316         | Vertical     |
| 2484.134        | 33.16                | 54.00                | -20.84      | CISPR Avg | 15        | 338         | Vertical     |
| 4882.492        | 37.21                | 54.00                | -16.79      | CISPR Avg | 3         | 343         | Vertical     |
| 5457.506        | 56.76                | 74.00                | -17.24      | Peak      | 323       | 267         | Vertical     |

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

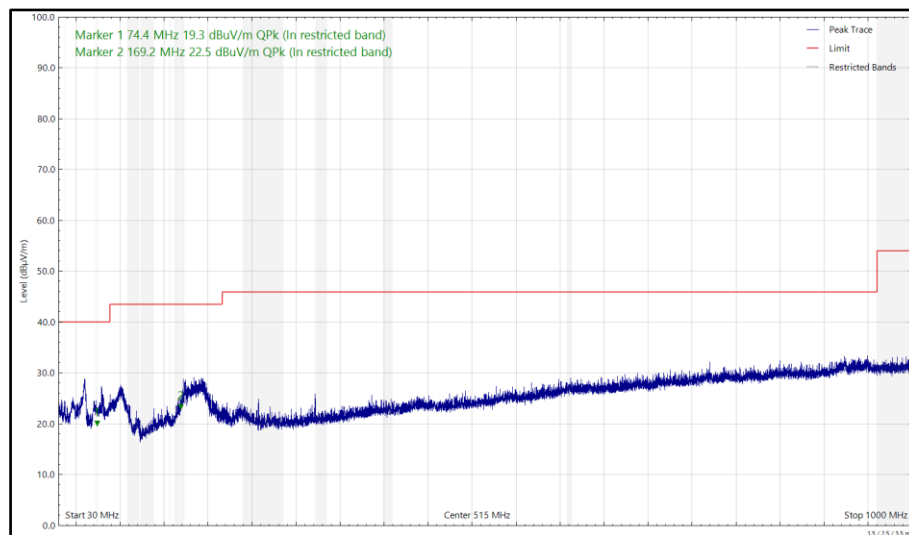
No other emissions found within 20 dB of the limit.



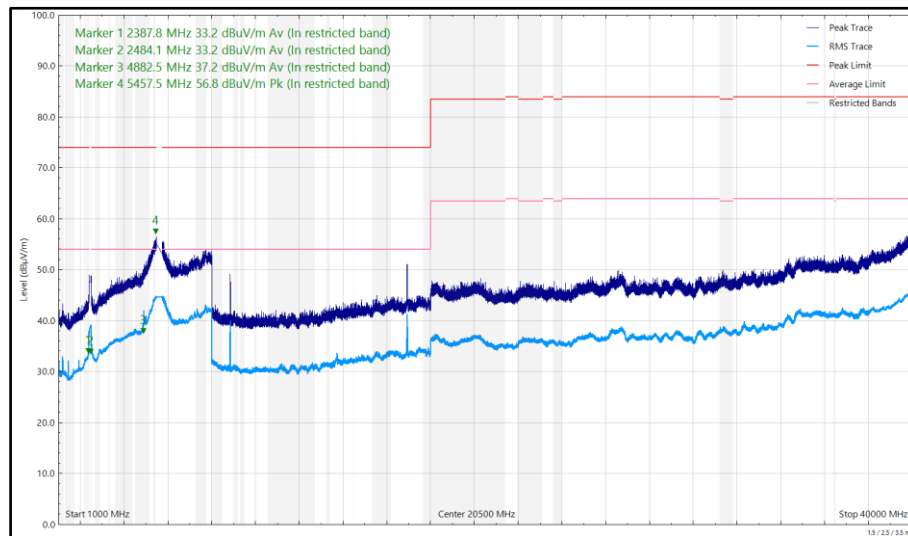
**Figure 6 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



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



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

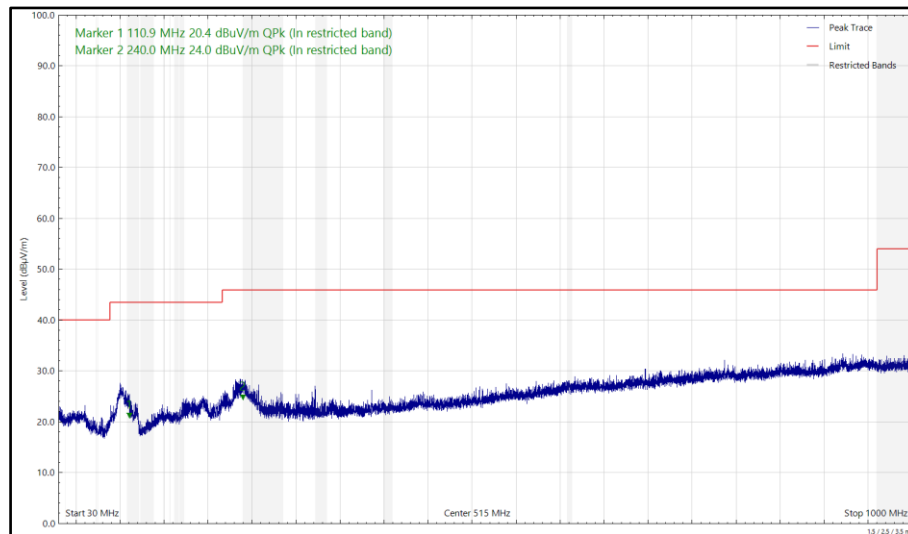


**Figure 9 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

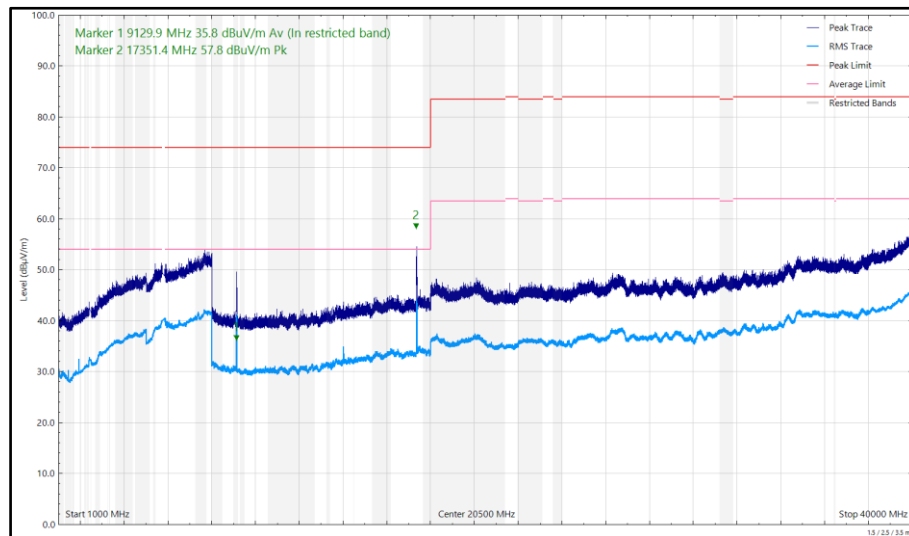
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 73.729          | 20.76          | 40.00          | -19.24      | Q-Peak    | 257       | 113         | Vertical     |
| 110.851         | 20.42          | 43.50          | -23.08      | Q-Peak    | 182       | 301         | Horizontal   |
| 171.186         | 22.84          | 43.50          | -20.66      | Q-Peak    | 360       | 106         | Vertical     |
| 240.048         | 23.95          | 46.00          | -22.05      | Q-Peak    | 355       | 240         | Horizontal   |
| 2386.311        | 32.22          | 54.00          | -21.78      | CISPR Avg | 16        | 377         | Vertical     |
| 2483.544        | 33.06          | 54.00          | -20.94      | CISPR Avg | 359       | 341         | Vertical     |
| 4882.553        | 36.86          | 54.00          | -17.14      | CISPR Avg | 8         | 232         | Vertical     |
| 5401.353        | 55.31          | 74.00          | -18.69      | Peak      | 333       | 263         | Vertical     |
| 9125.980        | 37.63          | 54.00          | -16.37      | CISPR Avg | 309       | 265         | Vertical     |
| 9129.930        | 35.78          | 54.00          | -18.22      | CISPR Avg | 286       | 365         | Horizontal   |
| 17349.648       | 61.50          | 74.00          | -12.50      | Peak      | 353       | 377         | Vertical     |
| 17351.448       | 57.76          | 74.00          | -16.24      | Peak      | 85        | 272         | Horizontal   |

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

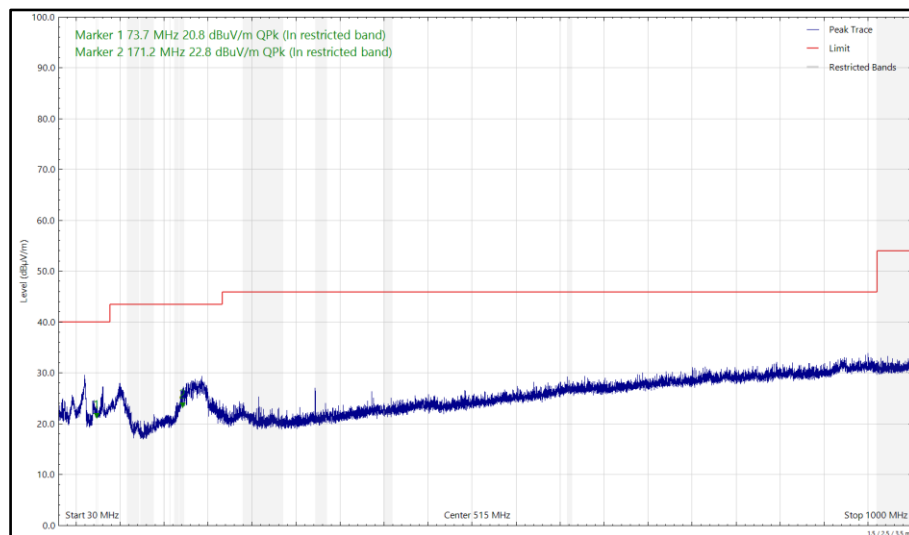
No other emissions found within 20 dB of the limit.



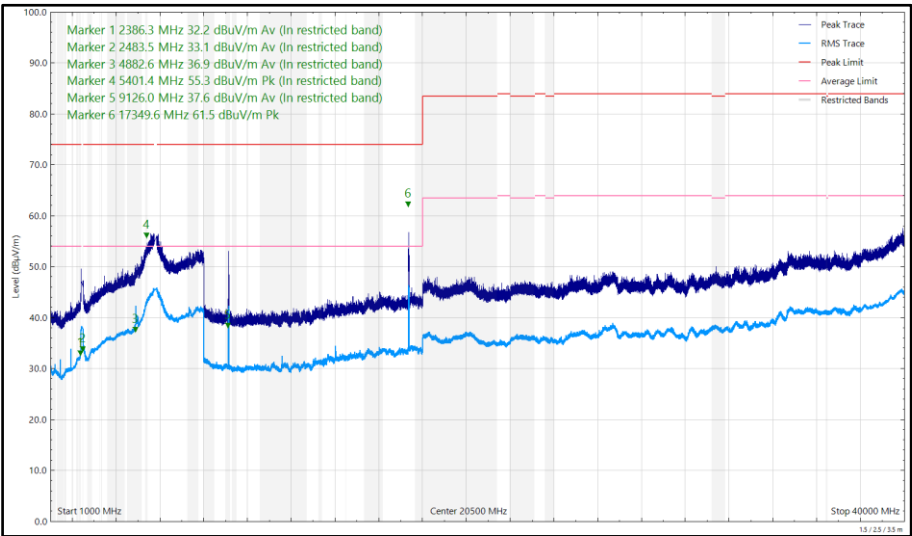
**Figure 10 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



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



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



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

FCC 47 CFR Part 15, ISSED RSS-247 and ISSED RSS-GEN

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) / RSS-247<br>Clause 6.6                                        | -20 dBc / -30 dBc                                                         |
| Part 15.407 (b) / RSS-247<br>Clause 6.6, 7.3.1.3, 7.3.2.3,<br>7.3.3.3, 7.3.4.4 | -27 dBm e.i.r.p                                                           |
| Part 15.209 / RSS-GEN<br>Clause 8.9                                            | Peak: 74 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz) |
| Part 15.407 (b) / RSS-247<br>Clause 7.3.2.3                                    | -27 dBm e.i.r.p                                                           |
| Part 15.407 (b) / RSS-247<br>Clause 7.3.3.3                                    | -27 dBm e.i.r.p                                                           |
| Part 15.407 (b) / RSS-247<br>Clause 7.3.4.4                                    | -27 dBm e.i.r.p                                                           |

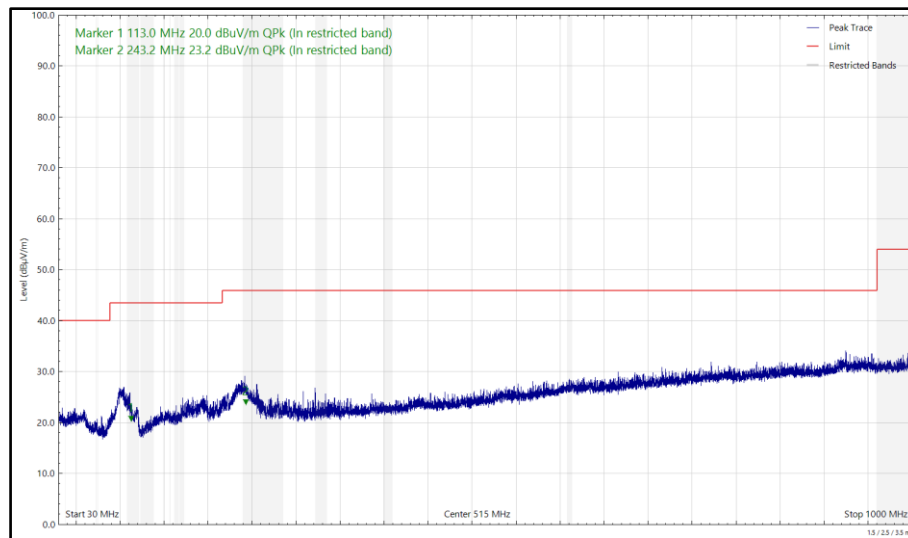
**Table 9**

## 6 GHz WLAN and 2.4 GHz Bluetooth

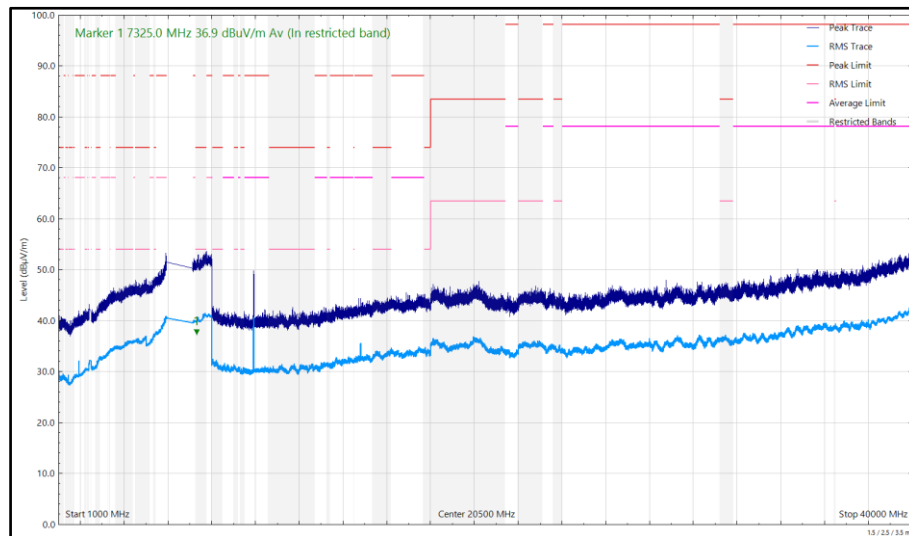
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 74.858          | 20.96          | 40.00          | -19.04      | Q-Peak    | 284       | 102         | Vertical     |
| 113.017         | 19.96          | 43.50          | -23.54      | Q-Peak    | 2         | 245         | Horizontal   |
| 172.368         | 23.49          | 43.50          | -20.01      | Q-Peak    | 350       | 106         | Vertical     |
| 243.151         | 23.17          | 46.00          | -22.83      | Q-Peak    | 0         | 282         | Horizontal   |
| 2388.448        | 33.16          | 54.00          | -20.84      | CISPR Avg | 7         | 322         | Vertical     |
| 2484.789        | 32.97          | 54.00          | -21.03      | CISPR Avg | 360       | 320         | Vertical     |
| 4882.098        | 37.33          | 54.00          | -16.67      | CISPR Avg | 16        | 236         | Vertical     |
| 7322.697        | 39.55          | 54.00          | -14.45      | CISPR Avg | 54        | 289         | Vertical     |
| 7324.993        | 36.92          | 54.00          | -17.08      | CISPR Avg | 32        | 400         | Horizontal   |

**Table 10 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

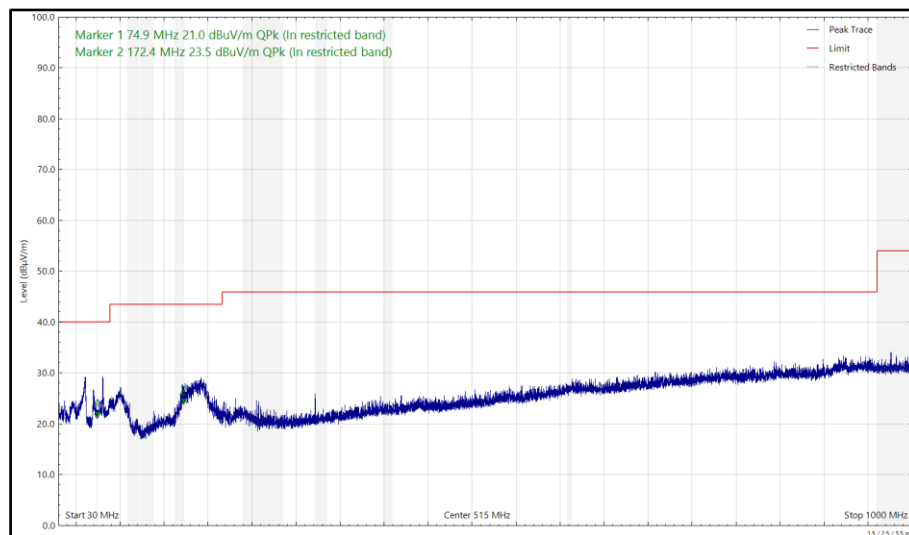
No other emissions found within 20 dB of the limit.



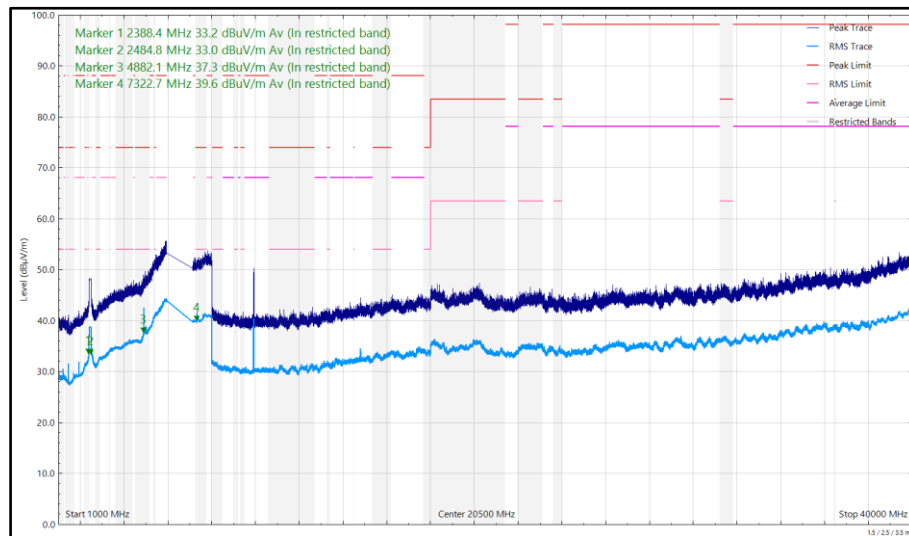
**Figure 14 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 15 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 16 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**

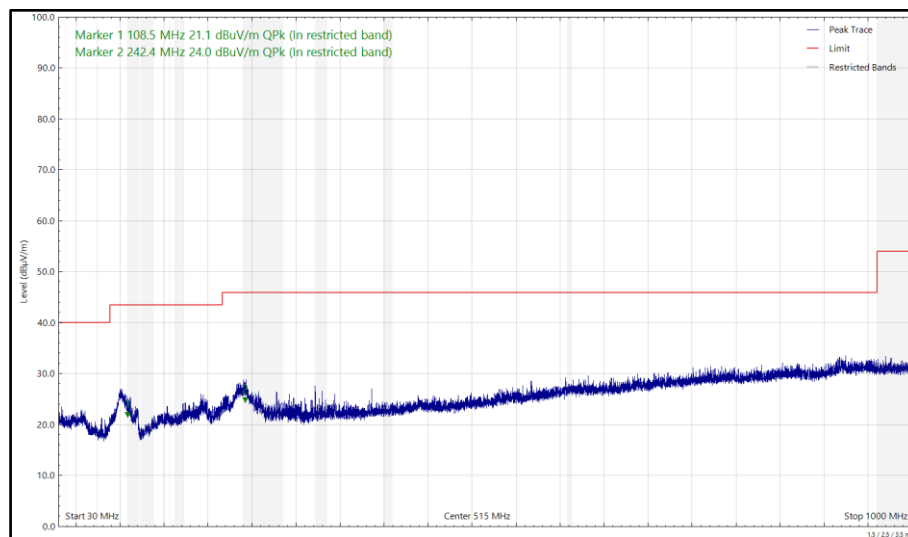


**Figure 17 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

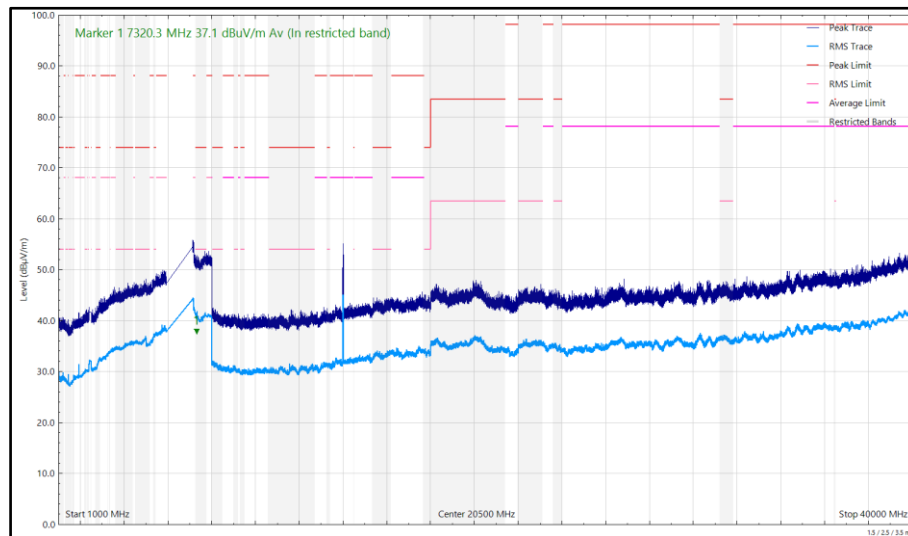
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 73.090          | 20.88          | 40.00          | -19.12      | Q-Peak    | 305       | 101         | Vertical     |
| 108.527         | 21.09          | 43.50          | -22.41      | Q-Peak    | 334       | 260         | Horizontal   |
| 172.471         | 20.98          | 43.50          | -22.52      | Q-Peak    | 314       | 287         | Vertical     |
| 242.378         | 23.98          | 46.00          | -22.02      | Q-Peak    | 358       | 204         | Horizontal   |
| 2387.993        | 32.70          | 54.00          | -21.30      | CISPR Avg | 13        | 290         | Vertical     |
| 2483.631        | 33.86          | 54.00          | -20.14      | CISPR Avg | 4         | 353         | Vertical     |
| 4881.838        | 39.96          | 54.00          | -14.04      | CISPR Avg | 345       | 302         | Vertical     |
| 7320.343        | 37.10          | 54.00          | -16.90      | CISPR Avg | 350       | 106         | Horizontal   |
| 7322.623        | 38.79          | 54.00          | -15.21      | CISPR Avg | 310       | 221         | Vertical     |

**Table 11 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

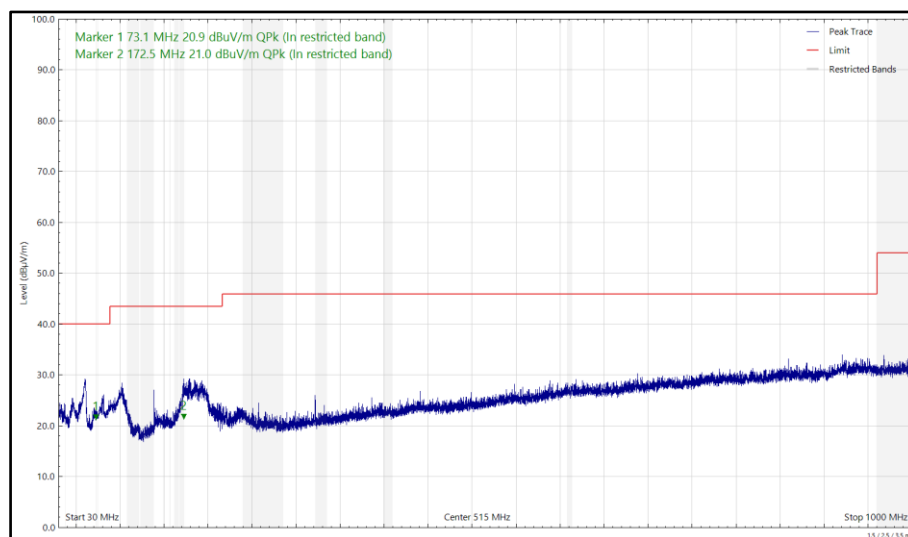
No other emissions found within 20 dB of the limit.



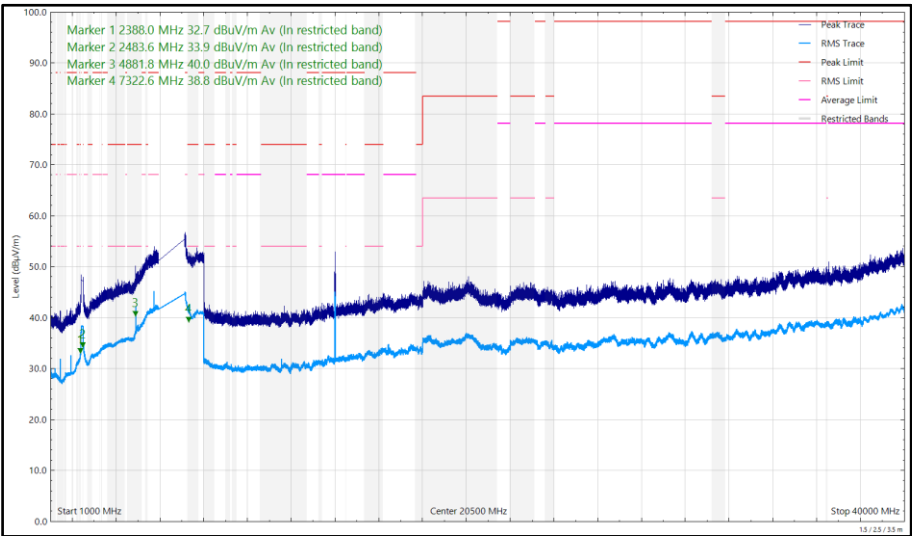
**Figure 18 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 19 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 20 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



**Figure 21 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

FCC 47 CFR Part 15, ISSED RSS-247, ISSED RSS-248 and ISSED RSS-GEN

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) / RSS-247<br>Clause 6.6   | -20 dBc                                                                   |
| Part 15.407 (b) / RSS-248<br>Clause 4.6.2 | Peak: -7 dBm/MHz e.i.r.p, Average: -27 dBm/MHz e.i.r.p.                   |
| Part 15.209 / RSS-GEN<br>Clause 8.9       | Peak: 74 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz) |

**Table 12**

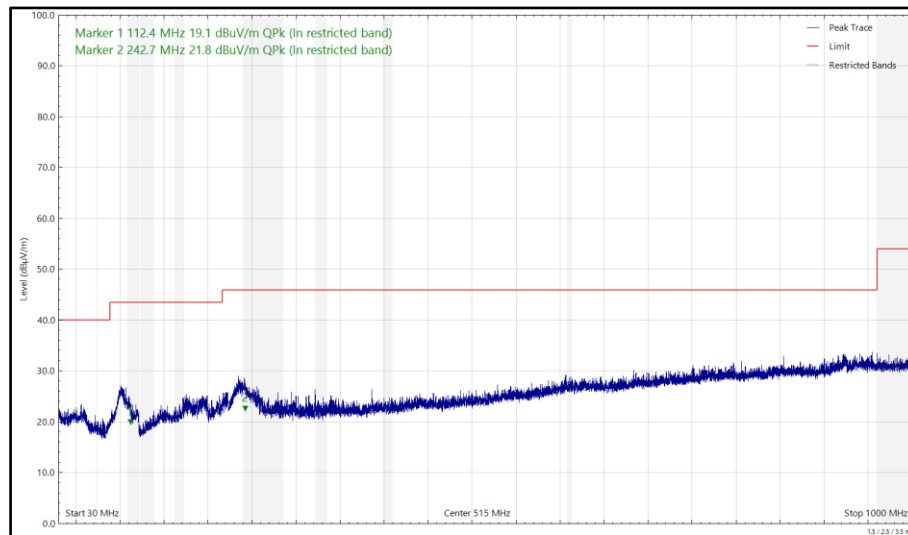


## 5 GHz WLAN and Thread

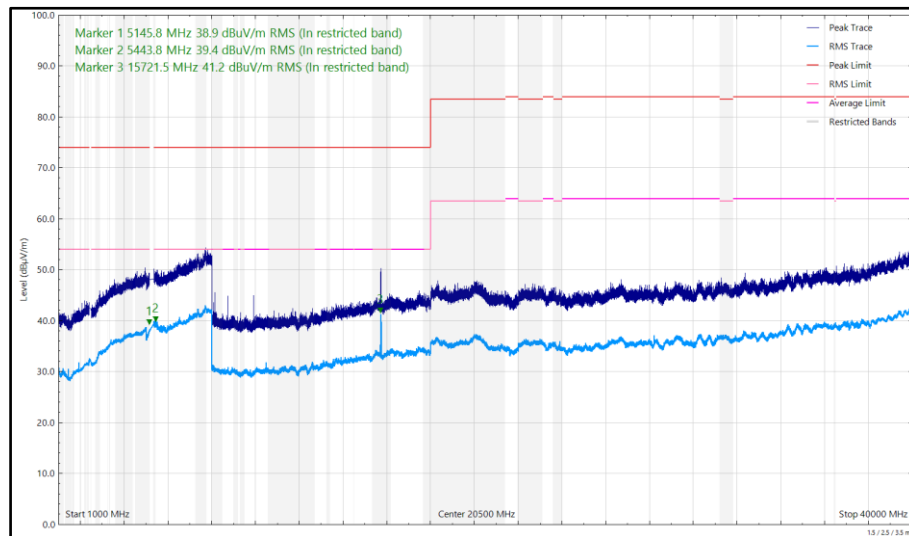
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 73.746          | 20.55          | 40.00          | -19.45      | Q-Peak   | 129       | 104         | Vertical     |
| 112.390         | 19.08          | 43.50          | -24.42      | Q-Peak   | 212       | 390         | Horizontal   |
| 172.735         | 22.05          | 43.50          | -21.45      | Q-Peak   | 177       | 109         | Vertical     |
| 242.697         | 21.84          | 46.00          | -24.16      | Q-Peak   | 340       | 323         | Horizontal   |
| 2388.022        | 36.24          | 54.00          | -17.76      | RMS      | 360       | 358         | Vertical     |
| 2483.519        | 34.80          | 54.00          | -19.20      | RMS      | 360       | 397         | Vertical     |
| 4999.869        | 44.42          | 54.00          | -9.58       | RMS      | 18        | 326         | Vertical     |
| 5141.036        | 55.45          | 74.00          | -18.55      | Peak     | 20        | 274         | Vertical     |
| 5144.883        | 44.43          | 54.00          | -9.57       | RMS      | 20        | 328         | Vertical     |
| 5145.785        | 38.92          | 54.00          | -15.08      | RMS      | 293       | 388         | Horizontal   |
| 5351.223        | 44.55          | 54.00          | -9.45       | RMS      | 337       | 265         | Vertical     |
| 5389.117        | 56.04          | 74.00          | -17.96      | Peak     | 325       | 305         | Vertical     |
| 5443.832        | 39.44          | 54.00          | -14.56      | RMS      | 69        | 390         | Horizontal   |
| 15720.254       | 38.74          | 54.00          | -15.26      | RMS      | 335       | 382         | Vertical     |
| 15721.495       | 41.16          | 54.00          | -12.84      | RMS      | 281       | 371         | Horizontal   |

**Table 13 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 40 GHz**

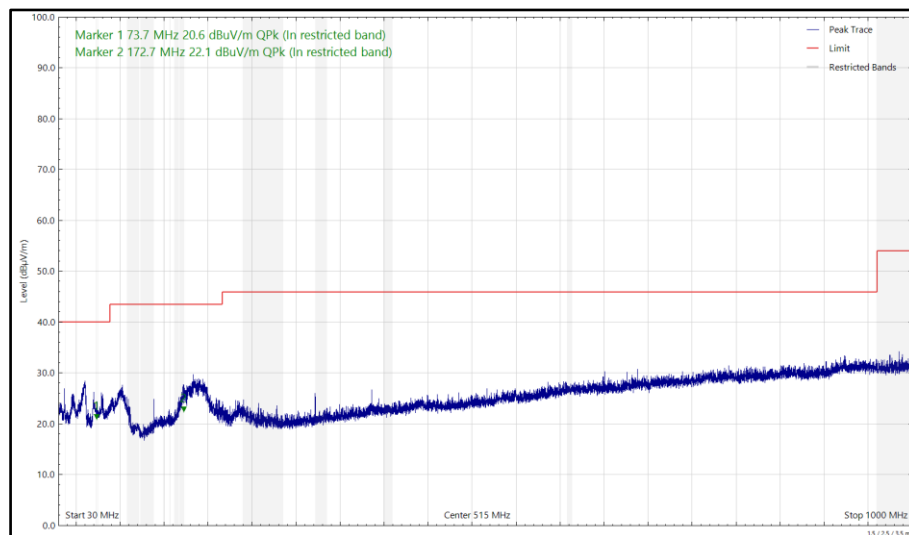
No other emissions found within 20 dB of the limit.



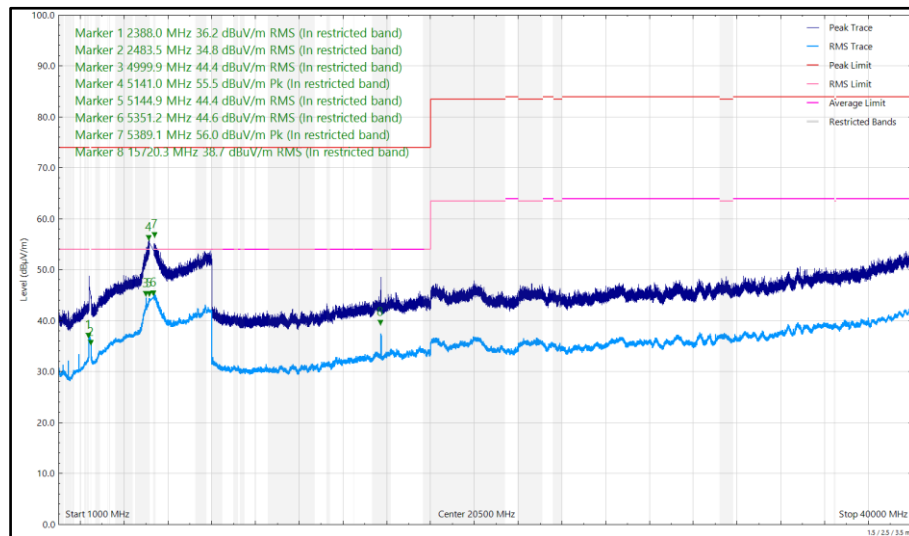
**Figure 22 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 23 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal**



**Figure 24 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)**

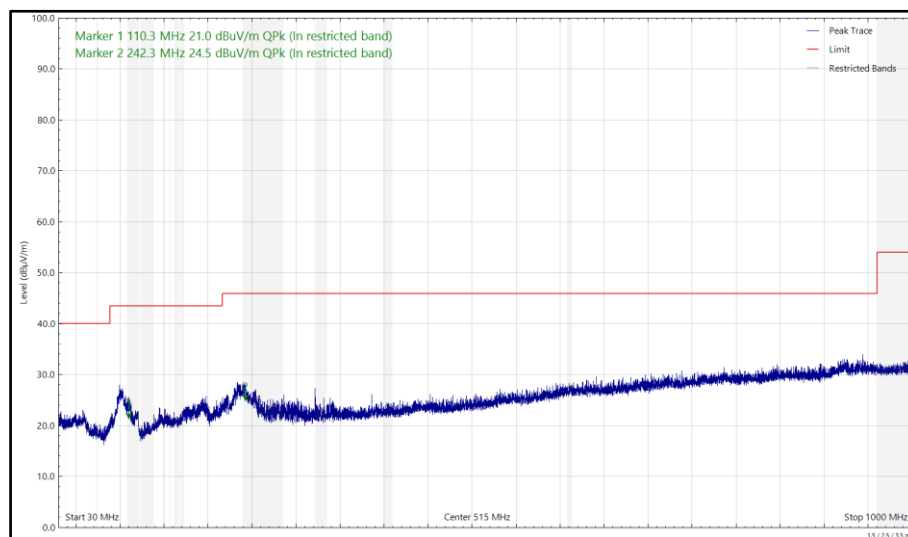


**Figure 25 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical**

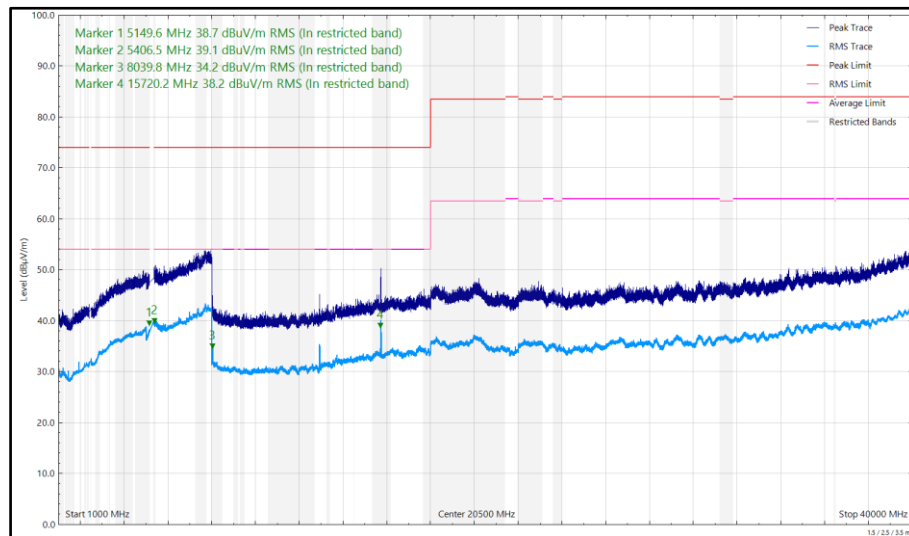
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 73.865          | 20.63          | 40.00          | -19.37      | Q-Peak   | 194       | 117         | Vertical     |
| 110.331         | 20.96          | 43.50          | -22.54      | Q-Peak   | 2         | 289         | Horizontal   |
| 170.275         | 22.66          | 43.50          | -20.84      | Q-Peak   | 344       | 128         | Vertical     |
| 242.336         | 24.51          | 46.00          | -21.49      | Q-Peak   | 5         | 186         | Horizontal   |
| 2388.232        | 35.01          | 54.00          | -18.99      | RMS      | 343       | 328         | Vertical     |
| 2483.519        | 36.55          | 54.00          | -17.45      | RMS      | 360       | 304         | Vertical     |
| 4879.291        | 41.50          | 54.00          | -12.50      | RMS      | 354       | 329         | Vertical     |
| 4999.919        | 43.57          | 54.00          | -10.43      | RMS      | 23        | 335         | Vertical     |
| 5133.636        | 55.48          | 74.00          | -18.52      | Peak     | 21        | 301         | Vertical     |
| 5143.115        | 44.18          | 54.00          | -9.82       | RMS      | 18        | 271         | Vertical     |
| 5149.578        | 38.69          | 54.00          | -15.31      | RMS      | 287       | 400         | Horizontal   |
| 5359.834        | 44.94          | 54.00          | -9.06       | RMS      | 319       | 266         | Vertical     |
| 5406.506        | 39.08          | 54.00          | -14.92      | RMS      | 73        | 400         | Horizontal   |
| 5452.616        | 56.39          | 74.00          | -17.61      | Peak     | 323       | 281         | Vertical     |
| 8039.826        | 34.16          | 54.00          | -19.84      | RMS      | 287       | 293         | Horizontal   |
| 8041.646        | 40.25          | 54.00          | -13.75      | RMS      | 20        | 257         | Vertical     |
| 15718.950       | 40.11          | 54.00          | -13.89      | RMS      | 340       | 359         | Vertical     |
| 15720.201       | 38.16          | 54.00          | -15.84      | RMS      | 80        | 271         | Horizontal   |

**Table 14 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 40 GHz**

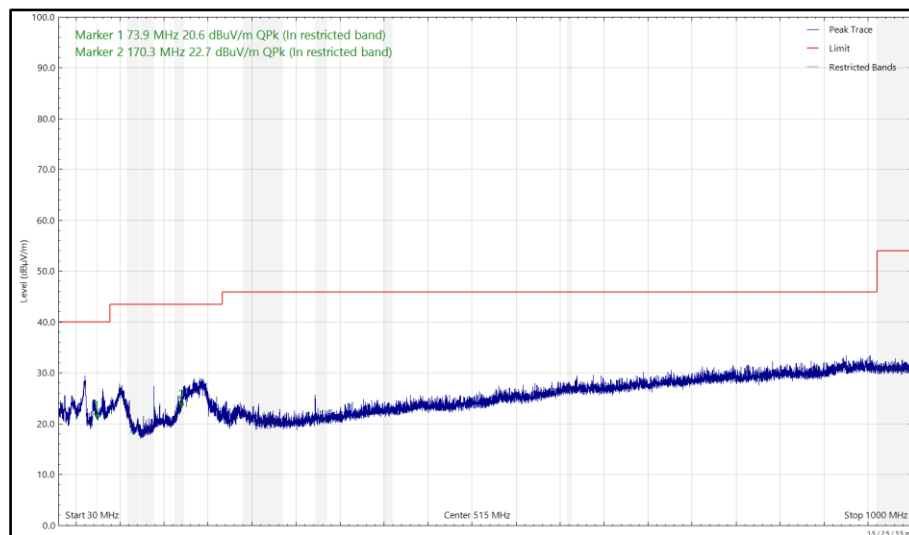
No other emissions found within 20 dB of the limit.



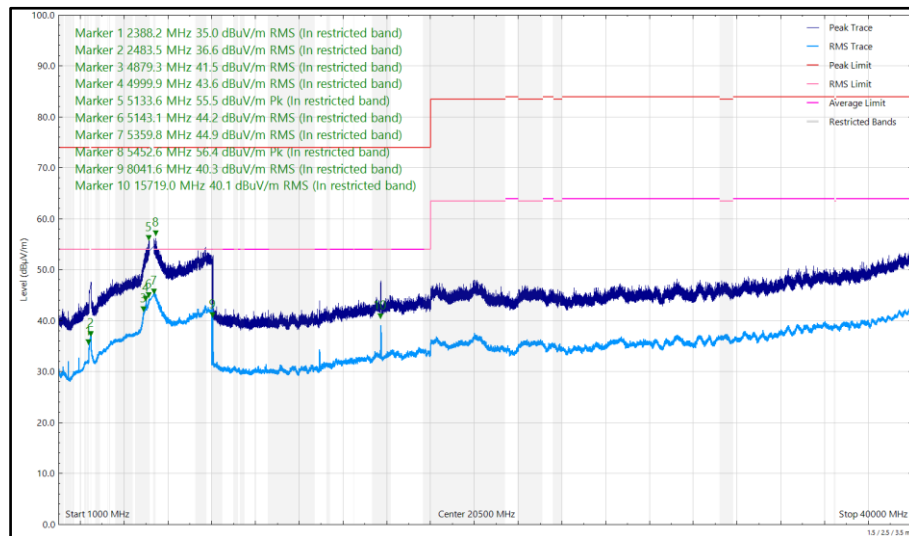
**Figure 26 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 27 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 28 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)**

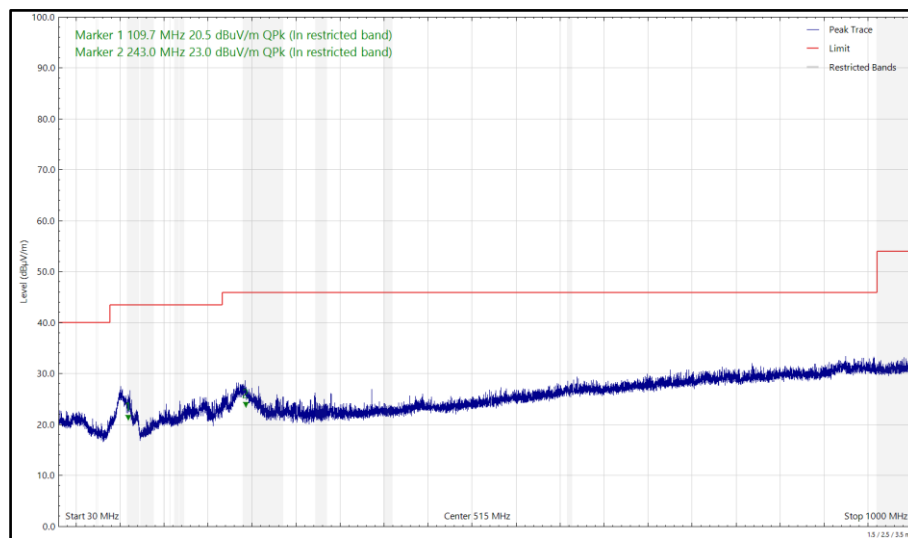


**Figure 29 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical**

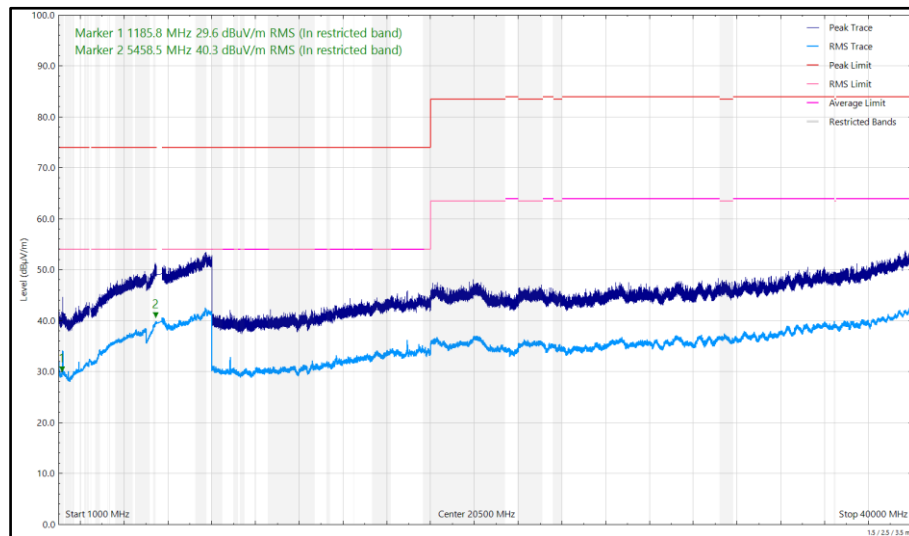
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 38.007          | 21.85          | 40.00          | -18.15      | Q-Peak   | 360       | 122         | Vertical     |
| 109.683         | 20.50          | 43.50          | -23.00      | Q-Peak   | 165       | 310         | Horizontal   |
| 170.892         | 23.46          | 43.50          | -20.04      | Q-Peak   | 350       | 103         | Vertical     |
| 242.966         | 23.03          | 46.00          | -22.97      | Q-Peak   | 1         | 288         | Horizontal   |
| 1185.783        | 29.62          | 54.00          | -24.38      | RMS      | 93        | 289         | Horizontal   |
| 1194.245        | 29.70          | 54.00          | -24.30      | RMS      | 262       | 100         | Vertical     |
| 2389.037        | 36.96          | 54.00          | -17.04      | RMS      | 7         | 318         | Vertical     |
| 2483.531        | 35.37          | 54.00          | -18.63      | RMS      | 9         | 353         | Vertical     |
| 5432.005        | 57.20          | 74.00          | -16.80      | Peak     | 334       | 312         | Vertical     |
| 5446.034        | 46.03          | 54.00          | -7.97       | RMS      | 336       | 293         | Vertical     |
| 5458.455        | 40.30          | 54.00          | -13.70      | RMS      | 301       | 397         | Horizontal   |

**Table 15 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 40 GHz**

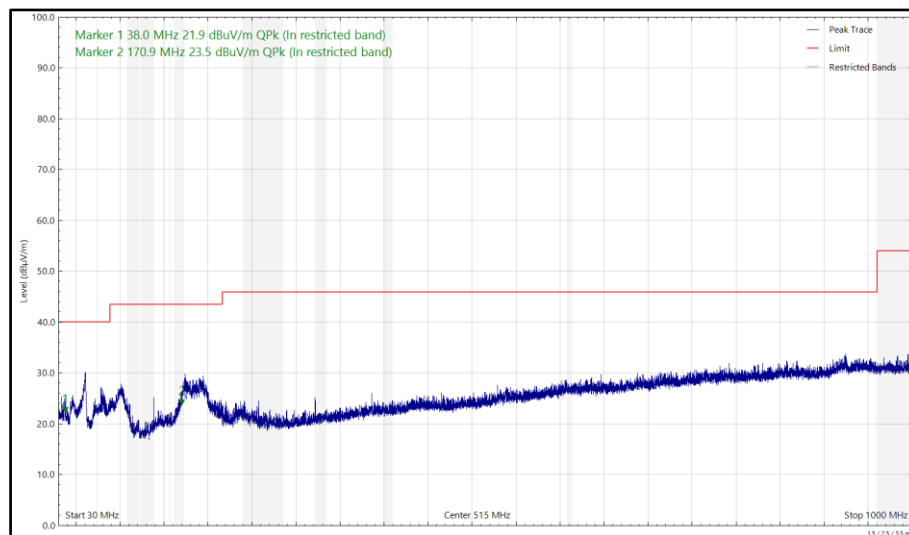
No other emissions found within 20 dB of the limit.



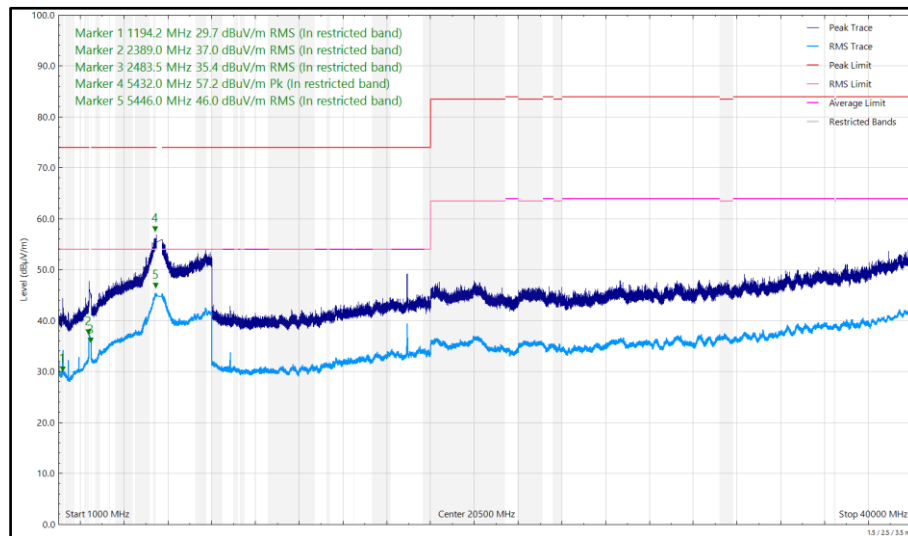
**Figure 30 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 31 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal**



**Figure 32 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)**

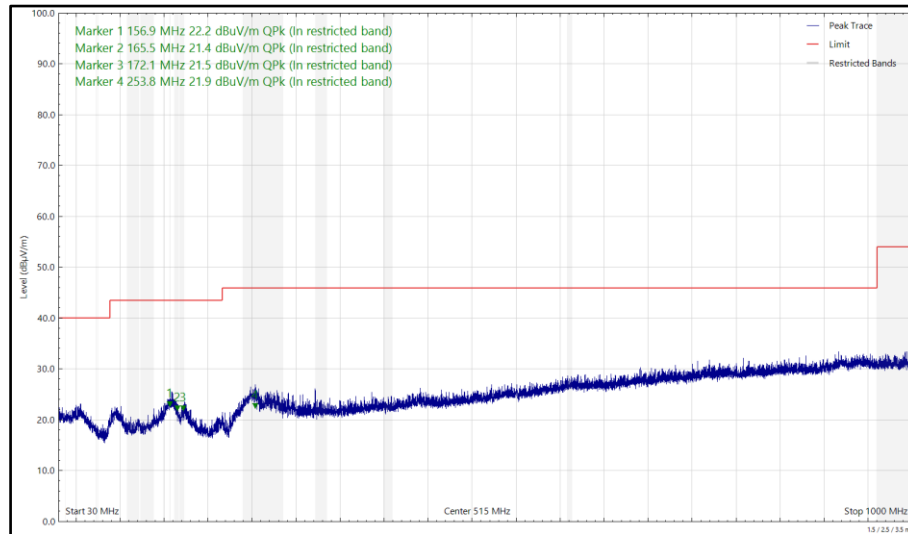


**Figure 33 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical**

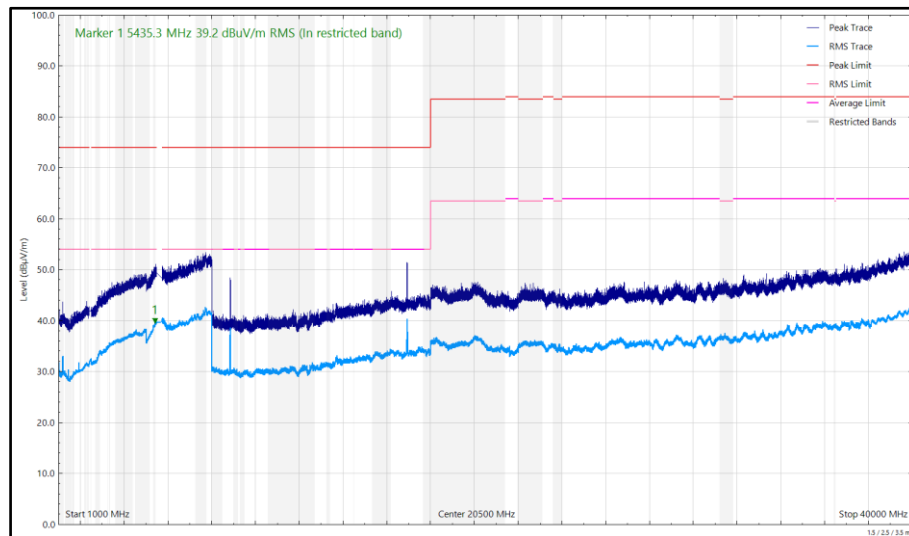
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 38.005          | 21.78          | 40.00          | -18.22      | Q-Peak   | 110       | 102         | Vertical     |
| 108.921         | 19.77          | 43.50          | -23.73      | Q-Peak   | 277       | 100         | Vertical     |
| 156.887         | 22.23          | 43.50          | -21.27      | Q-Peak   | 22        | 252         | Horizontal   |
| 165.461         | 21.44          | 43.50          | -22.06      | Q-Peak   | 281       | 367         | Horizontal   |
| 168.285         | 21.47          | 43.50          | -22.03      | Q-Peak   | 9         | 247         | Vertical     |
| 172.123         | 21.46          | 43.50          | -22.04      | Q-Peak   | 28        | 243         | Horizontal   |
| 250.703         | 22.91          | 46.00          | -23.09      | Q-Peak   | 77        | 100         | Vertical     |
| 253.783         | 21.91          | 46.00          | -24.09      | Q-Peak   | 15        | 131         | Horizontal   |
| 2388.995        | 34.79          | 54.00          | -19.21      | RMS      | 350       | 293         | Vertical     |
| 2483.676        | 37.15          | 54.00          | -16.85      | RMS      | 352       | 331         | Vertical     |
| 4880.746        | 39.88          | 54.00          | -14.12      | RMS      | 2         | 317         | Vertical     |
| 5402.636        | 57.27          | 74.00          | -16.73      | Peak     | 326       | 282         | Vertical     |
| 5435.252        | 39.15          | 54.00          | -14.85      | RMS      | 75        | 390         | Horizontal   |
| 5453.466        | 46.09          | 54.00          | -7.91       | RMS      | 330       | 289         | Vertical     |

**Table 16 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 40 GHz**

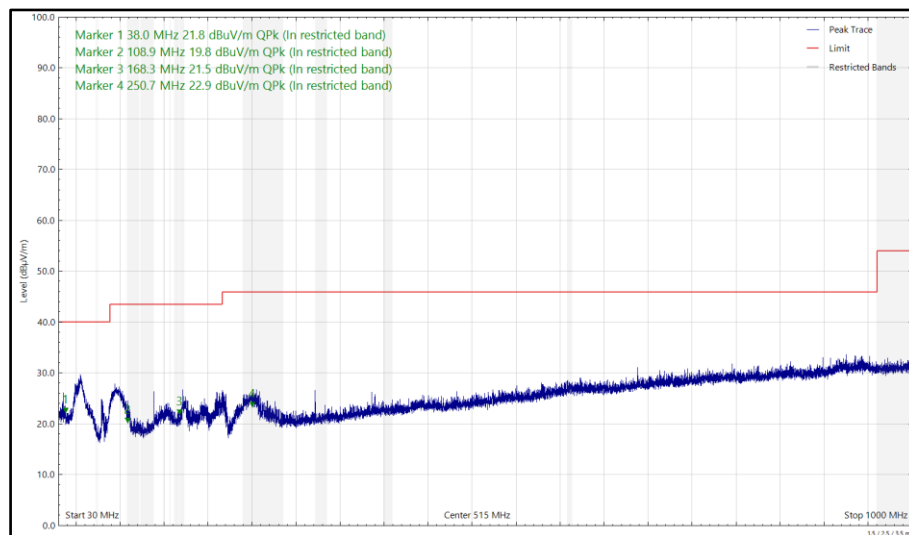
No other emissions found within 20 dB of the limit.



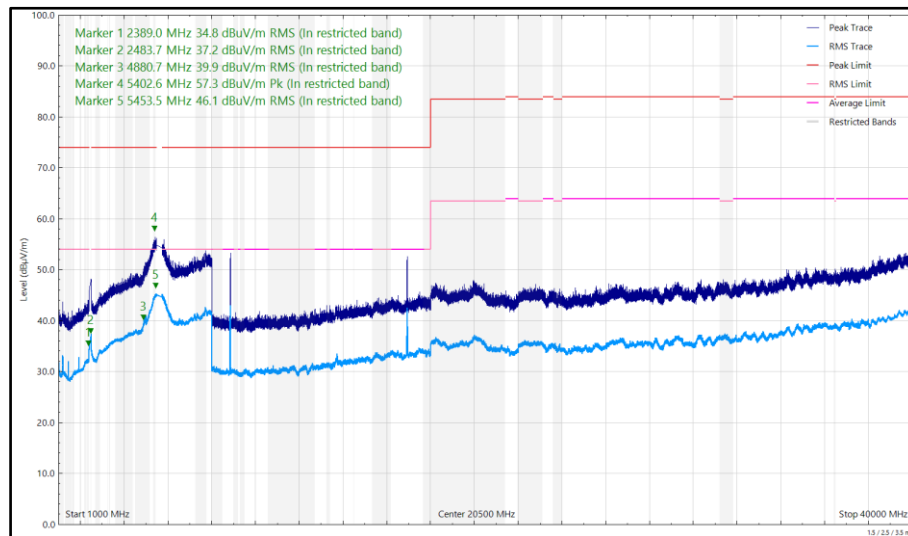
**Figure 34 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 35 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 36 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)**

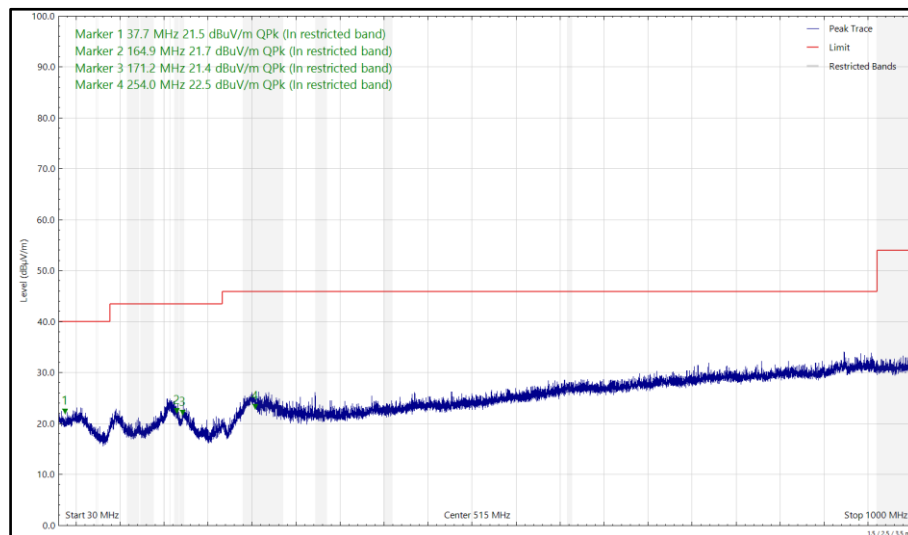


**Figure 37 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical**

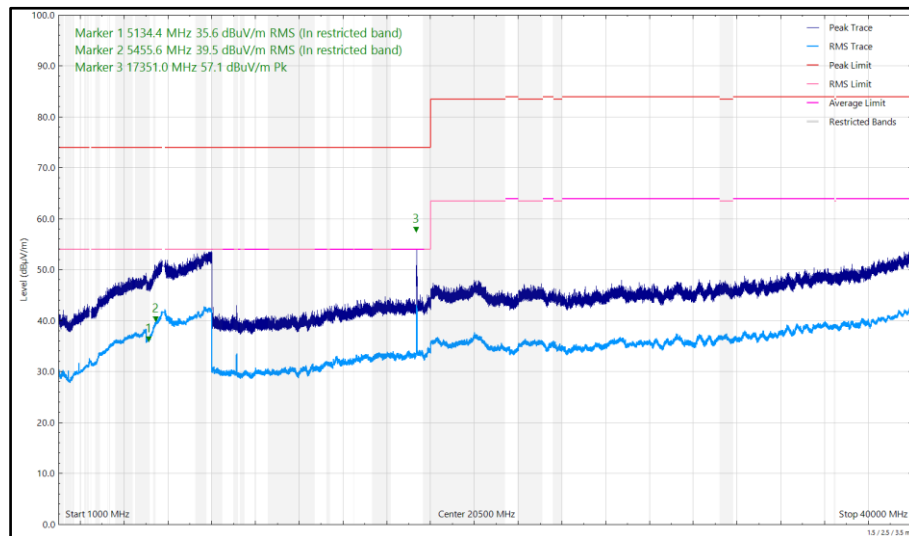
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 37.652          | 21.54          | 40.00          | -18.46      | Q-Peak   | 92        | 277         | Horizontal   |
| 37.885          | 21.66          | 40.00          | -18.34      | Q-Peak   | 213       | 361         | Vertical     |
| 109.019         | 19.75          | 43.50          | -23.75      | Q-Peak   | 274       | 100         | Vertical     |
| 162.024         | 21.68          | 43.50          | -21.82      | Q-Peak   | 346       | 102         | Vertical     |
| 164.865         | 21.65          | 43.50          | -21.85      | Q-Peak   | 148       | 271         | Horizontal   |
| 169.477         | 21.45          | 43.50          | -22.05      | Q-Peak   | 62        | 247         | Vertical     |
| 171.201         | 21.37          | 43.50          | -22.13      | Q-Peak   | 38        | 400         | Horizontal   |
| 253.978         | 22.47          | 46.00          | -23.53      | Q-Peak   | 343       | 167         | Horizontal   |
| 254.619         | 20.80          | 46.00          | -25.20      | Q-Peak   | 79        | 151         | Vertical     |
| 2389.659        | 36.83          | 54.00          | -17.17      | RMS      | 360       | 331         | Vertical     |
| 2483.506        | 35.18          | 54.00          | -18.82      | RMS      | 360       | 341         | Vertical     |
| 5134.448        | 35.57          | 54.00          | -18.43      | RMS      | 79        | 280         | Horizontal   |
| 5443.456        | 45.68          | 54.00          | -8.32       | RMS      | 323       | 286         | Vertical     |
| 5446.940        | 57.07          | 74.00          | -16.93      | Peak     | 323       | 286         | Vertical     |
| 5455.591        | 39.51          | 54.00          | -14.49      | RMS      | 70        | 351         | Horizontal   |
| 9129.907        | 35.41          | 54.00          | -18.59      | RMS      | 308       | 256         | Vertical     |
| 17351.049       | 57.05          | 74.00          | -16.95      | Peak     | 269       | 339         | Horizontal   |
| 17365.451       | 59.77          | 74.00          | -14.23      | Peak     | 17        | 343         | Vertical     |

**Table 17 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 40 GHz**

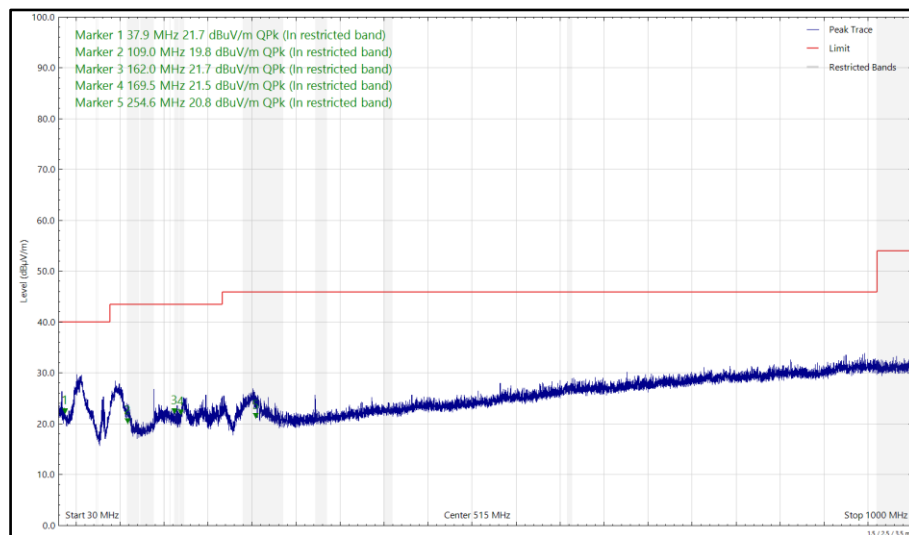
No other emissions found within 20 dB of the limit.



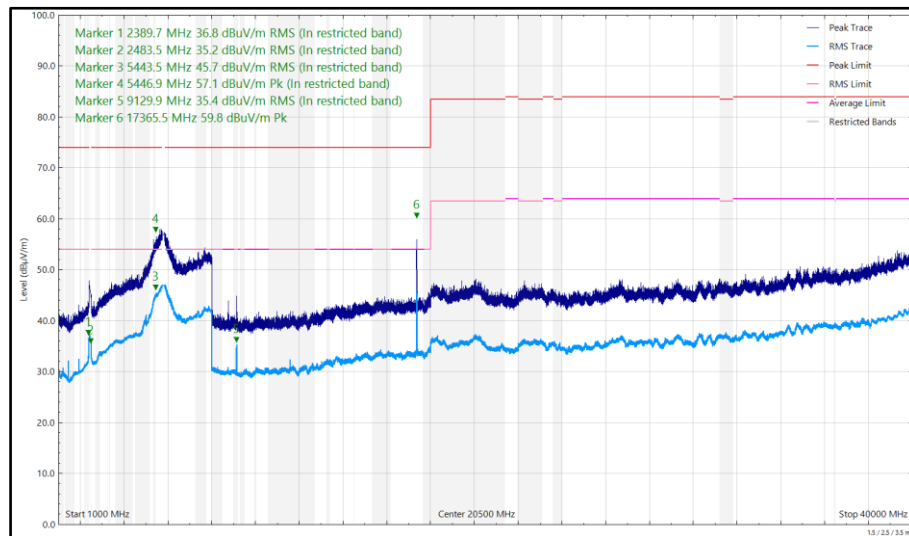
**Figure 38 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 39 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal**



**Figure 40 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)**

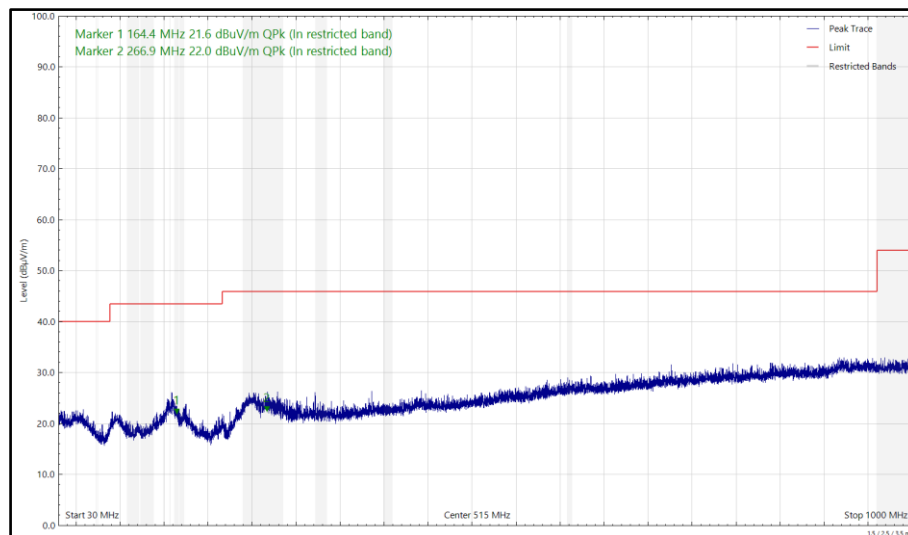


**Figure 41 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical**

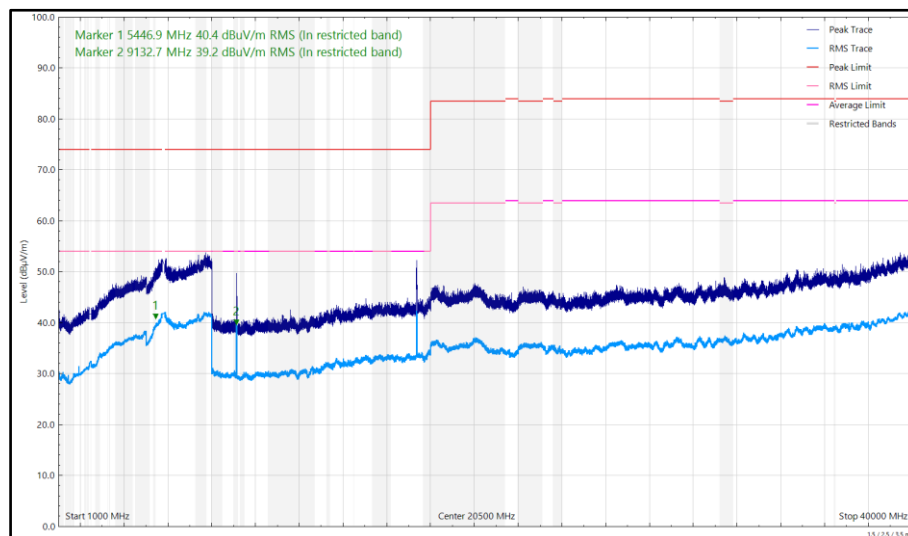
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 37.605          | 21.67          | 40.00          | -18.33      | Q-Peak   | 122       | 174         | Vertical     |
| 73.119          | 18.90          | 40.00          | -21.10      | Q-Peak   | 59        | 131         | Vertical     |
| 164.396         | 21.61          | 43.50          | -21.89      | Q-Peak   | 346       | 381         | Horizontal   |
| 169.631         | 21.52          | 43.50          | -21.98      | Q-Peak   | 32        | 196         | Vertical     |
| 251.744         | 22.61          | 46.00          | -23.39      | Q-Peak   | 66        | 110         | Vertical     |
| 266.917         | 22.03          | 46.00          | -23.97      | Q-Peak   | 356       | 120         | Horizontal   |
| 2389.753        | 34.09          | 54.00          | -19.91      | RMS      | 3         | 253         | Vertical     |
| 2483.531        | 36.71          | 54.00          | -17.29      | RMS      | 2         | 313         | Vertical     |
| 4880.959        | 41.44          | 54.00          | -12.56      | RMS      | 9         | 327         | Vertical     |
| 5446.574        | 45.98          | 54.00          | -8.02       | RMS      | 335       | 298         | Vertical     |
| 5446.876        | 40.37          | 54.00          | -13.63      | RMS      | 299       | 394         | Horizontal   |
| 5452.912        | 56.30          | 74.00          | -17.70      | Peak     | 319       | 287         | Vertical     |
| 9131.499        | 41.50          | 54.00          | -12.50      | RMS      | 303       | 255         | Vertical     |
| 9132.651        | 39.20          | 54.00          | -14.80      | RMS      | 293       | 377         | Horizontal   |
| 17350.908       | 60.92          | 74.00          | -13.08      | Peak     | 353       | 378         | Vertical     |

**Table 18 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 40 GHz**

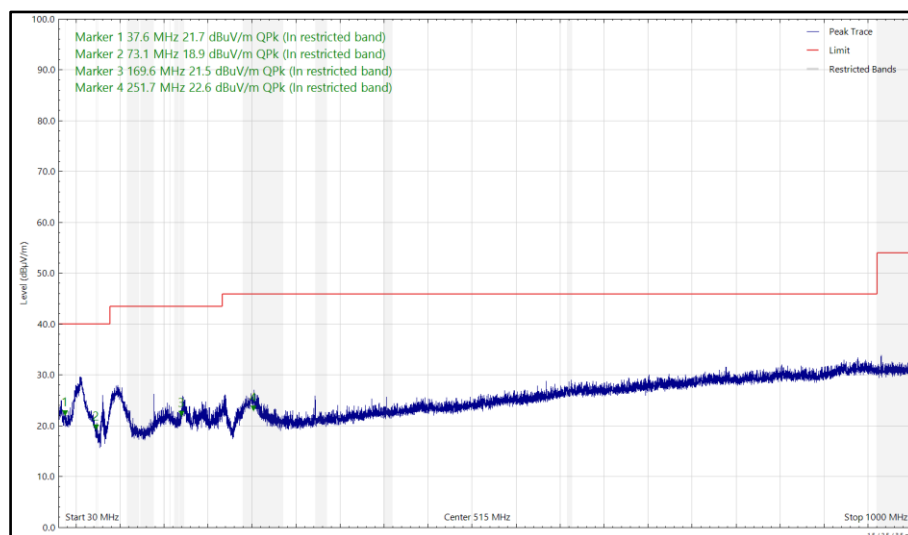
No other emissions found within 20 dB of the limit.



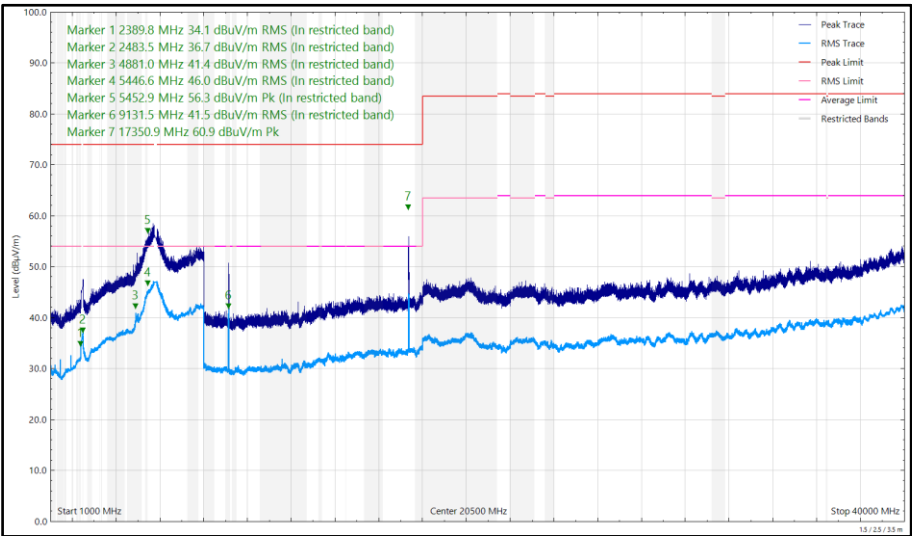
**Figure 42 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 43 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 44 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



**Figure 45 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical**

FCC 47 CFR Part 15, ISSED RSS-247 and ISSED RSS-GEN

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) / RSS-247<br>Clause 6.6                                        | -20 dBc / -30 dBc                                                         |
| Part 15.407 (b) / RSS-247<br>Clause 6.6, 7.3.1.3, 7.3.2.3,<br>7.3.3.3, 7.3.4.4 | -27 dBm e.i.r.p                                                           |
| Part 15.209 / RSS-GEN<br>Clause 8.9                                            | Peak: 74 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz) |
| Part 15.407 (b) / RSS-247<br>Clause 7.3.2.3                                    | -27 dBm e.i.r.p                                                           |
| Part 15.407 (b) / RSS-247<br>Clause 7.3.3.3                                    | -27 dBm e.i.r.p                                                           |
| Part 15.407 (b) / RSS-247<br>Clause 7.3.4.4                                    | -27 dBm e.i.r.p                                                           |

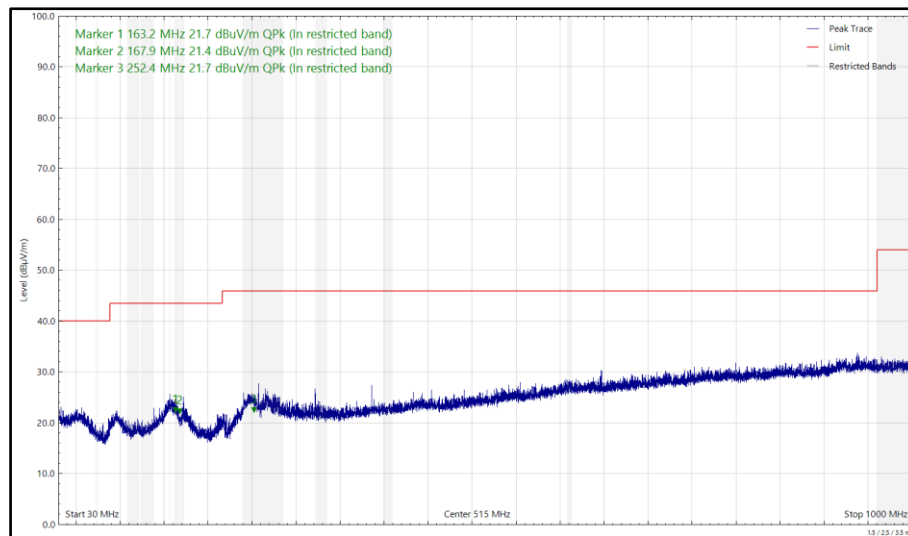
**Table 19**

## 6 GHz WLAN and Thread

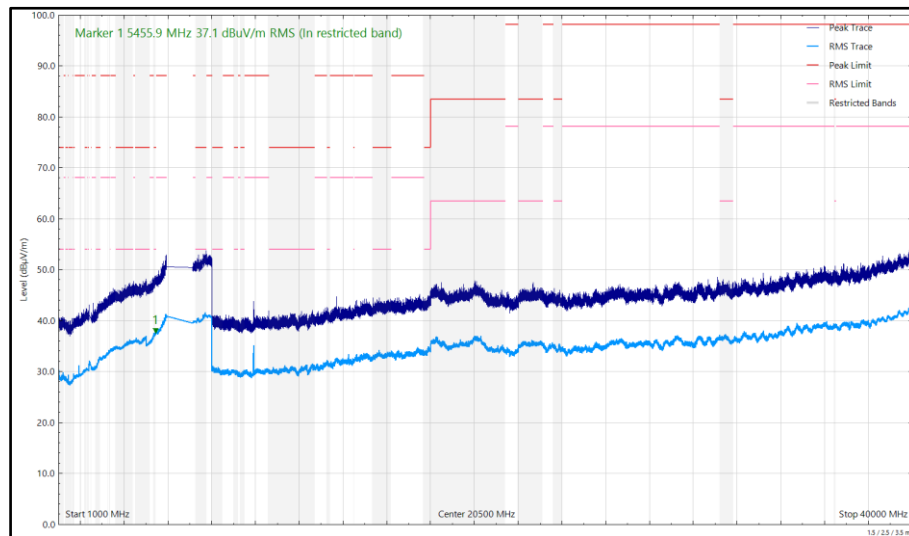
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 38.037          | 21.99          | 40.00          | -18.01      | Q-Peak   | 126       | 398         | Vertical     |
| 163.190         | 21.73          | 43.50          | -21.77      | Q-Peak   | 328       | 322         | Horizontal   |
| 167.906         | 21.43          | 43.50          | -22.07      | Q-Peak   | 304       | 375         | Horizontal   |
| 171.619         | 22.00          | 43.50          | -21.50      | Q-Peak   | 0         | 110         | Vertical     |
| 251.635         | 20.69          | 46.00          | -25.31      | Q-Peak   | 9         | 110         | Vertical     |
| 252.370         | 21.67          | 46.00          | -24.33      | Q-Peak   | 360       | 252         | Horizontal   |
| 2388.687        | 35.94          | 54.00          | -18.06      | RMS      | 350       | 334         | Vertical     |
| 2483.670        | 34.72          | 54.00          | -19.28      | RMS      | 10        | 379         | Vertical     |
| 4903.646        | 38.26          | 54.00          | -15.74      | RMS      | 0         | 293         | Vertical     |
| 5450.817        | 40.97          | 54.00          | -13.03      | RMS      | 346       | 254         | Vertical     |
| 5455.945        | 37.13          | 54.00          | -16.87      | RMS      | 321       | 383         | Horizontal   |

**Table 20 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 40 GHz**

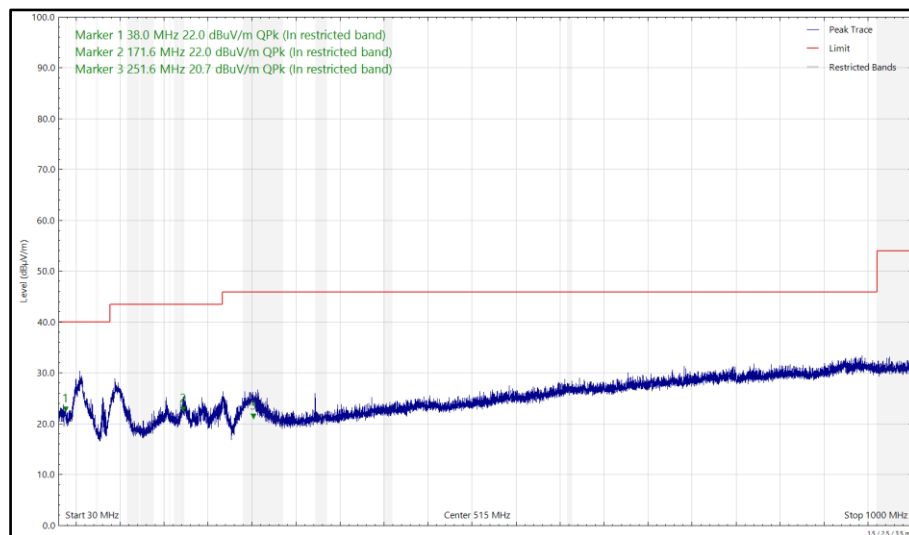
No other emissions found within 20 dB of the limit.



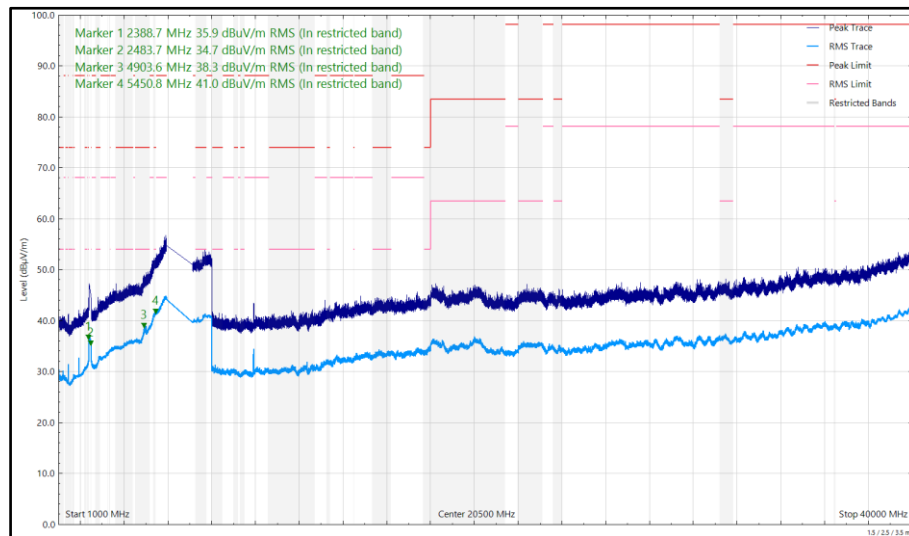
**Figure 46 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 47 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal**



**Figure 48 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)**

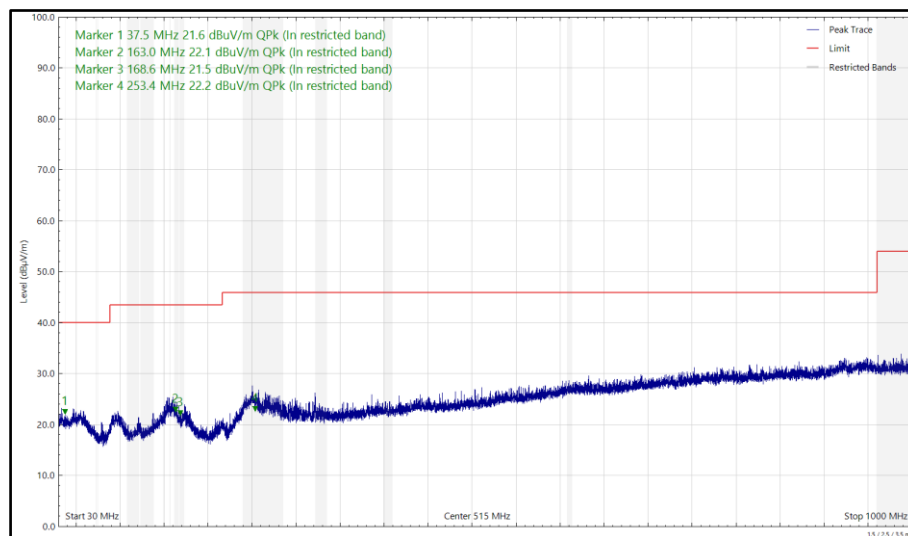


**Figure 49 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical**

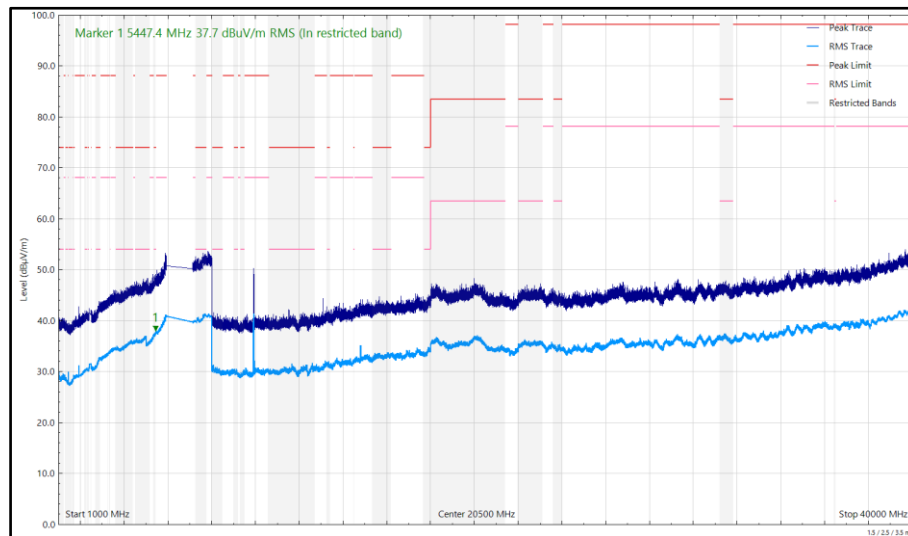
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 37.505          | 21.63                | 40.00                | -18.37      | Q-Peak   | 268       | 340         | Horizontal   |
| 112.342         | 18.86                | 43.50                | -24.64      | Q-Peak   | 79        | 180         | Vertical     |
| 162.992         | 22.14                | 43.50                | -21.36      | Q-Peak   | 190       | 258         | Horizontal   |
| 168.626         | 21.45                | 43.50                | -22.05      | Q-Peak   | 322       | 248         | Horizontal   |
| 171.980         | 21.34                | 43.50                | -22.16      | Q-Peak   | 279       | 317         | Vertical     |
| 253.095         | 21.94                | 46.00                | -24.06      | Q-Peak   | 248       | 102         | Vertical     |
| 253.386         | 22.20                | 46.00                | -23.80      | Q-Peak   | 9         | 161         | Horizontal   |
| 2389.663        | 34.15                | 54.00                | -19.85      | RMS      | 350       | 361         | Vertical     |
| 2483.569        | 36.07                | 54.00                | -17.93      | RMS      | 5         | 378         | Vertical     |
| 4880.908        | 40.09                | 54.00                | -13.91      | RMS      | 7         | 306         | Vertical     |
| 5446.598        | 42.70                | 54.00                | -11.30      | RMS      | 335       | 308         | Vertical     |
| 5447.437        | 37.68                | 54.00                | -16.32      | RMS      | 55        | 390         | Horizontal   |
| 7322.776        | 39.88                | 54.00                | -14.12      | RMS      | 251       | 282         | Vertical     |

**Table 21 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 40 GHz**

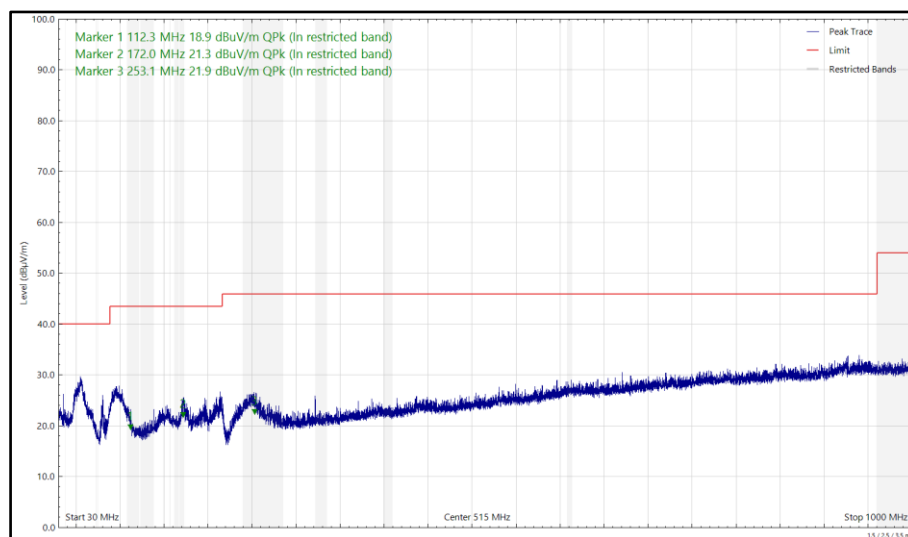
No other emissions found within 20 dB of the limit.



**Figure 50 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 51 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 52 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)**