

FCC and ISED Test Report

Apple Inc
Model: A3428



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)

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SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Stephen Marshall	Senior Engineer	Authorised Signatory	31 January 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	George Capps	31 January 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.



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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).

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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	31 January 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: 2023 ISED RSS-247: Issue 4 (2025-07) ISED RSS-248: Issue 3 (2024-10) ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02)
Start of Test	02-January-2026
Finish of Test	26-January-2026
Name of Engineer(s)	Ian Hart, Dulanjan Witharamalage, Gridi Bilali, Manohar Thota, Tony Baby, Ioan-Alexandru Bogatu, Ahmed Al Derdiri, Morsalin Hossain.
Related Document(s)	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01 KDB 987594 D02 v03



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-248 and ISED 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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01 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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01 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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 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, 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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01 KDB 987594 D02 v03
Configuration and Mode 2.4 GHz WLAN and Thread 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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01
Configuration and Mode 2.4 GHz WLAN and Thread and 6 GHz Narrowband							
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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01 KDB 987594 D02 v03
Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz WLAN							
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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01
Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 6 GHz WLAN							
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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01 KDB 987594 D02 v03
Configuration and Mode: 2.4 GHz WLAN and Thread and 5 GHz WLAN							
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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01
Configuration and Mode: 2.4 GHz WLAN and Thread and 6 GHz WLAN							
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) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01 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: A3428		
Serial Number	Hardware Version	Software Version
FF9MP4FP2G	REV1.0	25D36
GJM3XKXYGQ	REV1.0	25D36

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: A3428, Serial Number: FF9MP4FP2G			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3428, Serial Number: GJM3XKXYGQ			
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

A3428, S/N: FF9MP4FP2G - Modification State 0
A3428, S/N: GJM3XKXYGQ - Modification State 0

2.1.3 Date of Test

02-January-2026 to 14-January-2026 and 23-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.

Simultaneous transmission combinations involving Thread, WLAN and Narrowband have been tested on either Core 0 or Core 1. Whilst Thread can operate on Core 0, 1 or 2, in the final product simultaneous combinations involving Thread will be limited to operation on Core 2.

2.1.5 Example Test Setup Diagram

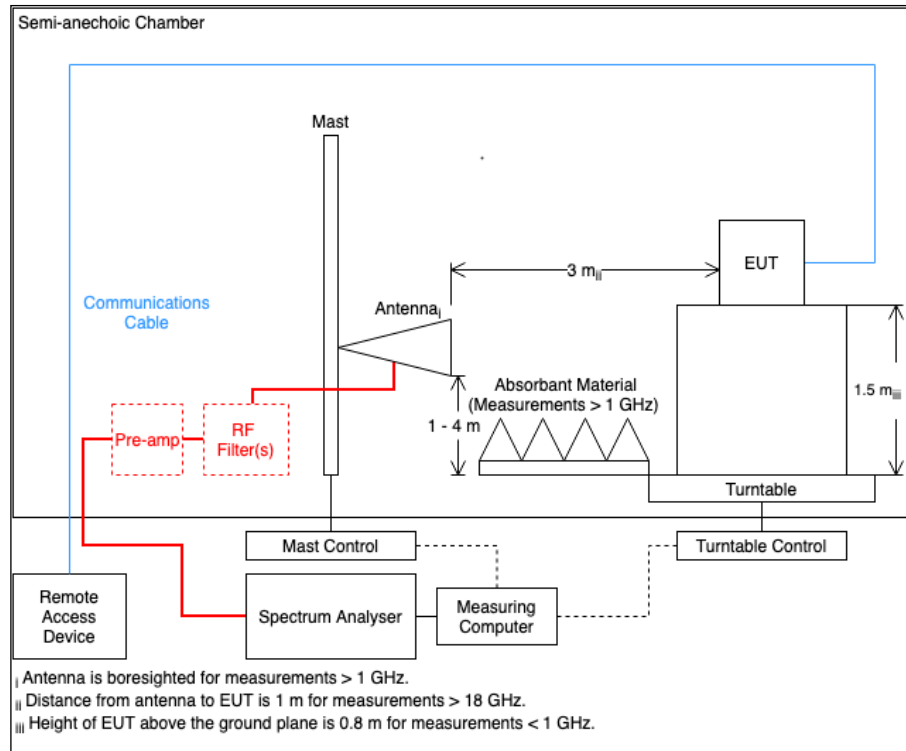


Figure 1

2.1.6 Environmental Conditions

Ambient Temperature	21.3 - 24.8 °C
Relative Humidity	31.7 - 46.5 %

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
73.029	18.09	40.00	-21.91	Q-Peak	329	353	Horizontal
73.077	17.94	40.00	-22.06	Q-Peak	328	126	Vertical
108.750	17.53	43.50	-25.97	Q-Peak	310	400	Horizontal
2389.327	35.41	54.00	-18.59	CISPR Avg	22	349	Vertical
2389.402	31.53	54.00	-22.47	CISPR Avg	51	399	Horizontal
2483.636	35.16	54.00	-18.84	CISPR Avg	24	314	Vertical
2484.081	30.95	54.00	-23.05	CISPR Avg	47	390	Horizontal
4995.250	36.93	54.00	-17.07	CISPR Avg	350	398	Vertical
5098.187	53.85	74.00	-20.15	Peak	2	351	Vertical
5403.868	57.26	74.00	-16.74	Peak	354	277	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.

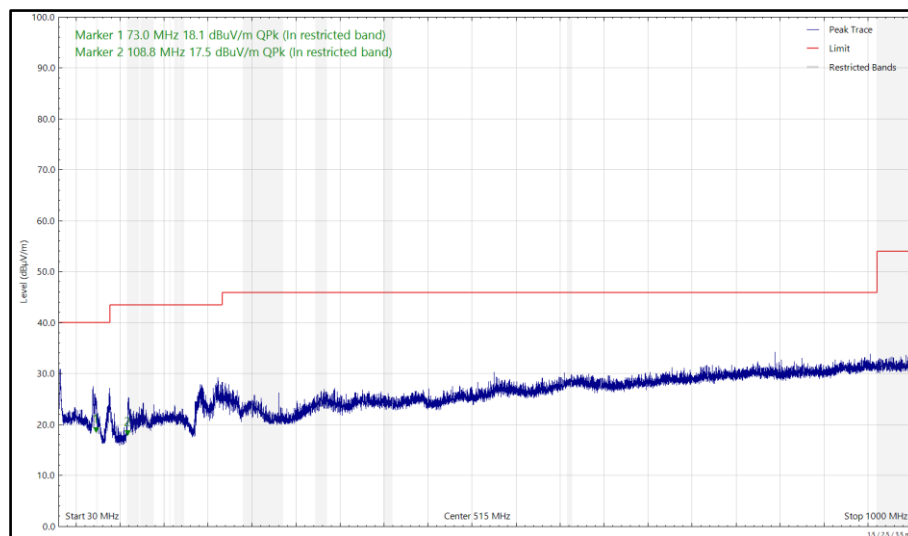


Figure 2 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

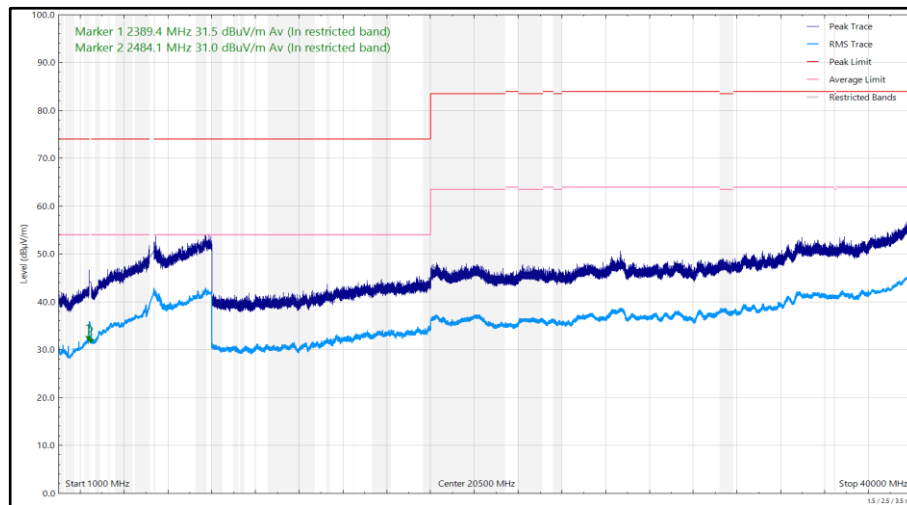


Figure 3 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

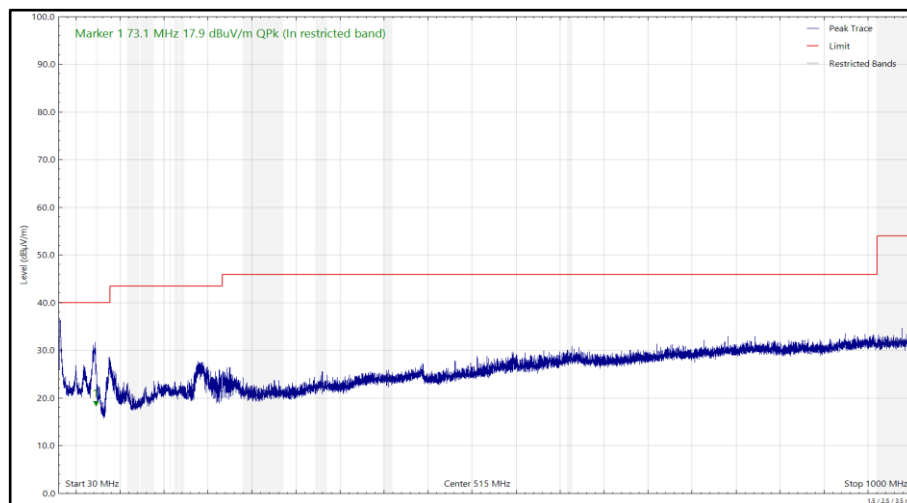


Figure 4 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

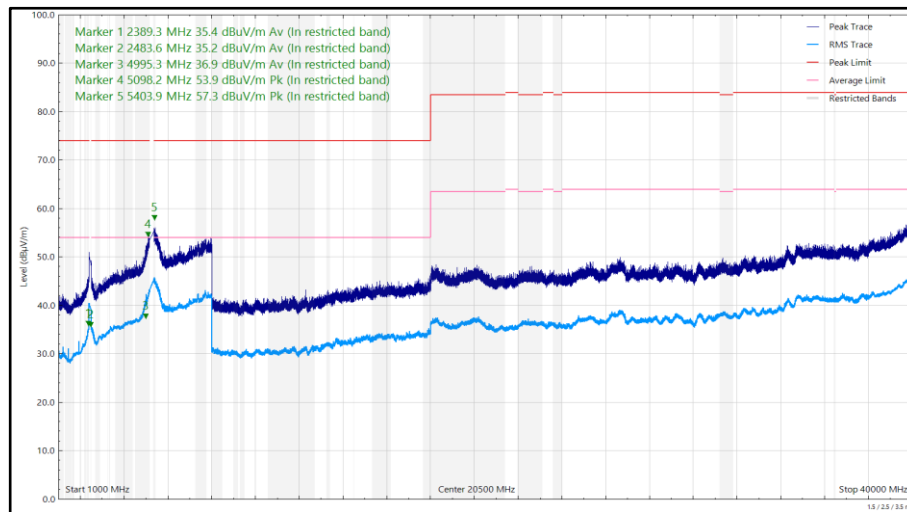


Figure 5 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.273	17.69	40.00	-22.31	Q-Peak	174	340	Horizontal
73.348	17.92	40.00	-22.08	Q-Peak	351	119	Vertical
111.859	18.42	43.50	-25.08	Q-Peak	354	284	Horizontal
334.626	22.68	46.00	-23.32	Q-Peak	283	130	Horizontal
2387.155	34.84	54.00	-19.16	CISPR Avg	15	400	Vertical
2387.237	31.64	54.00	-22.36	CISPR Avg	48	399	Horizontal
2483.936	34.07	54.00	-19.93	CISPR Avg	360	384	Vertical
2484.056	30.73	54.00	-23.27	CISPR Avg	54	390	Horizontal
5423.924	56.30	74.00	-17.70	Peak	0	259	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.

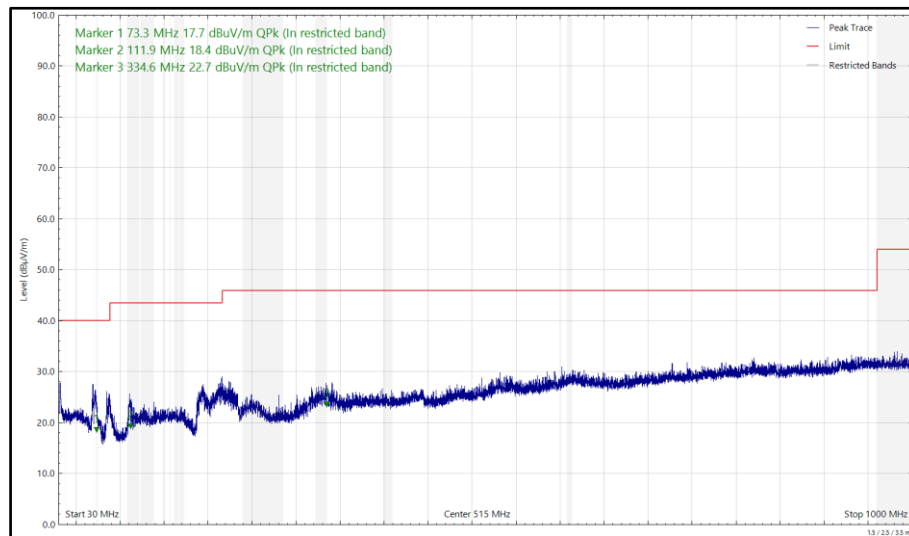


Figure 6 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

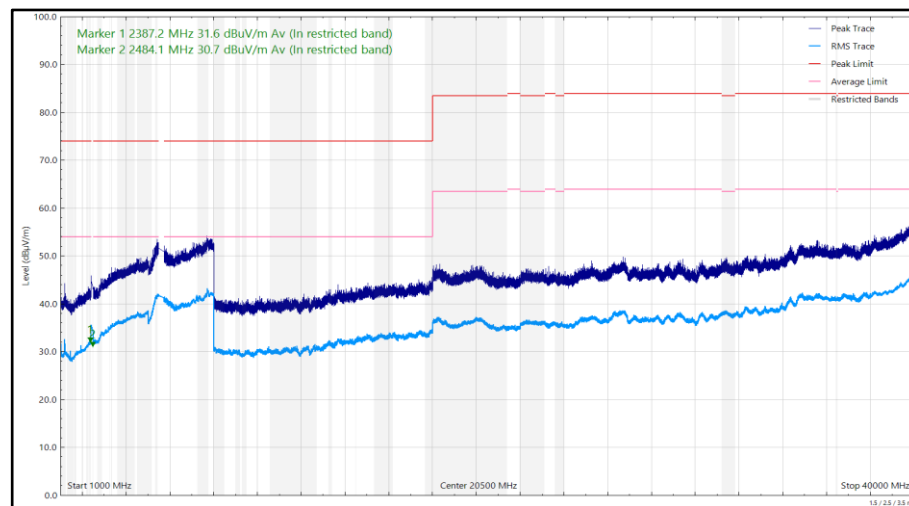


Figure 7 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

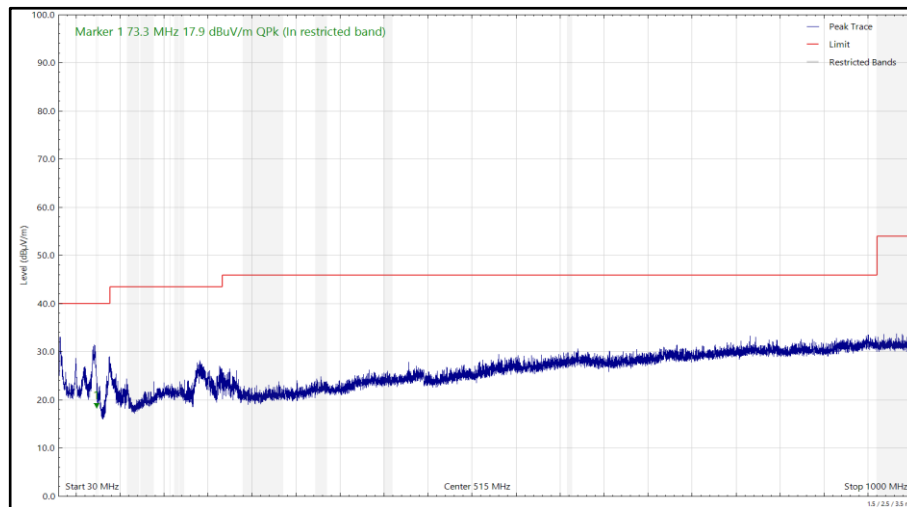


Figure 8 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

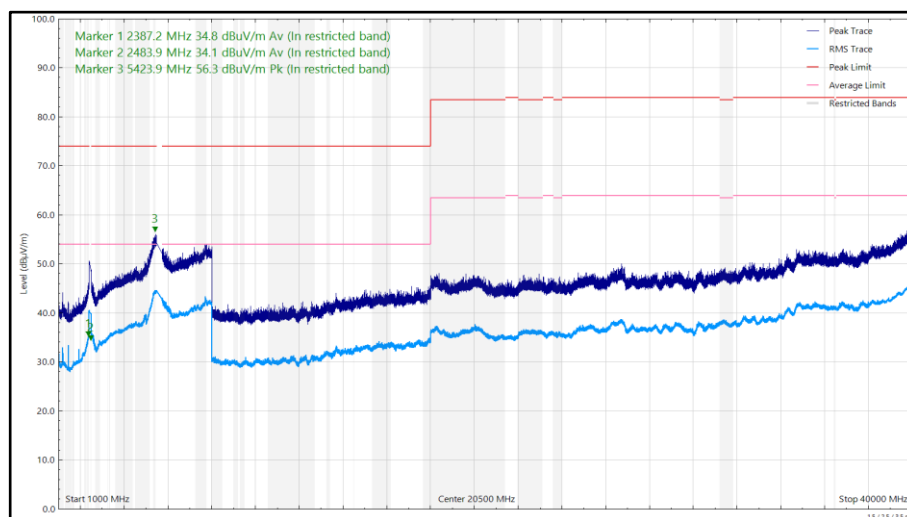


Figure 9 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.282	17.08	40.00	-22.92	Q-Peak	254	351	Horizontal
73.300	18.16	40.00	-21.84	Q-Peak	351	119	Vertical
110.754	17.22	43.50	-26.28	Q-Peak	0	192	Vertical
111.554	18.65	43.50	-24.85	Q-Peak	360	290	Horizontal
2385.838	35.55	54.00	-18.45	CISPR Avg	32	312	Vertical
2388.222	31.63	54.00	-22.37	CISPR Avg	47	400	Horizontal
2483.525	35.90	54.00	-18.10	CISPR Avg	29	322	Vertical
2483.609	31.15	54.00	-22.85	CISPR Avg	50	376	Horizontal
5451.088	57.73	74.00	-16.27	Peak	357	283	Vertical

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.

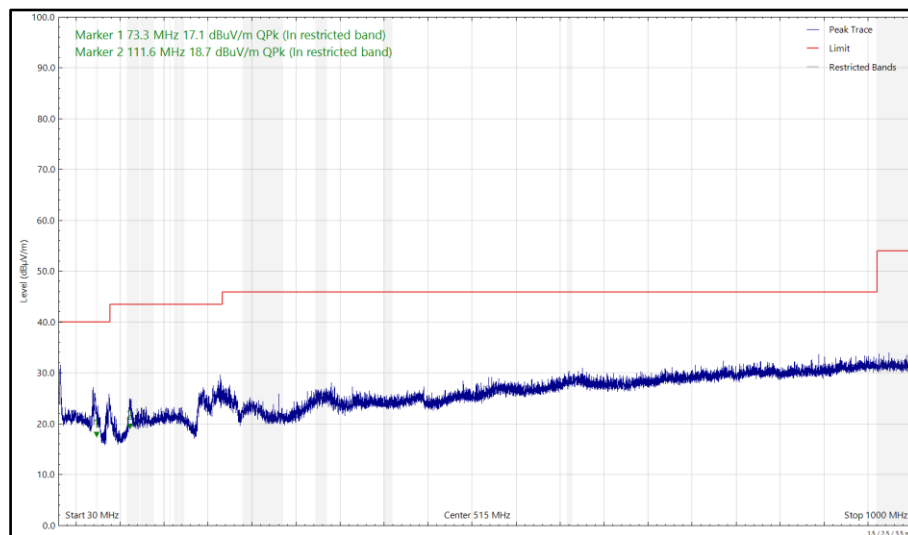


Figure 10 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

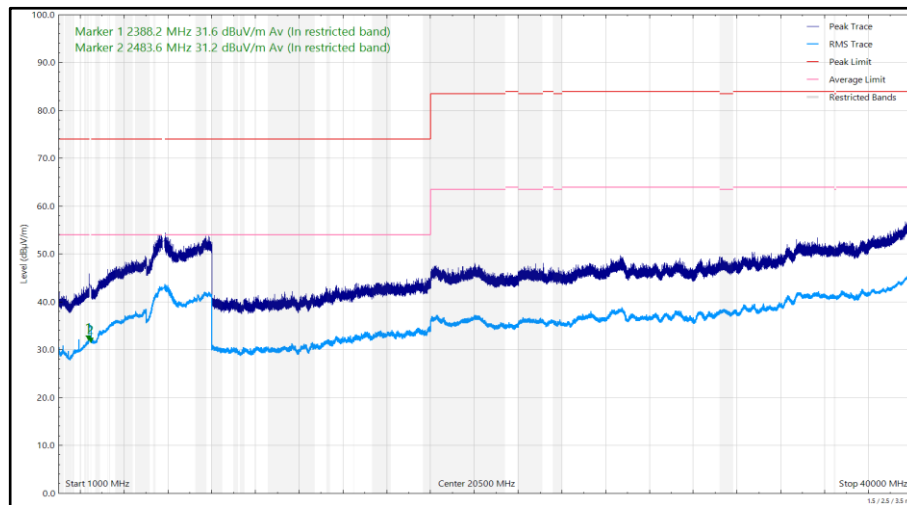


Figure 11 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

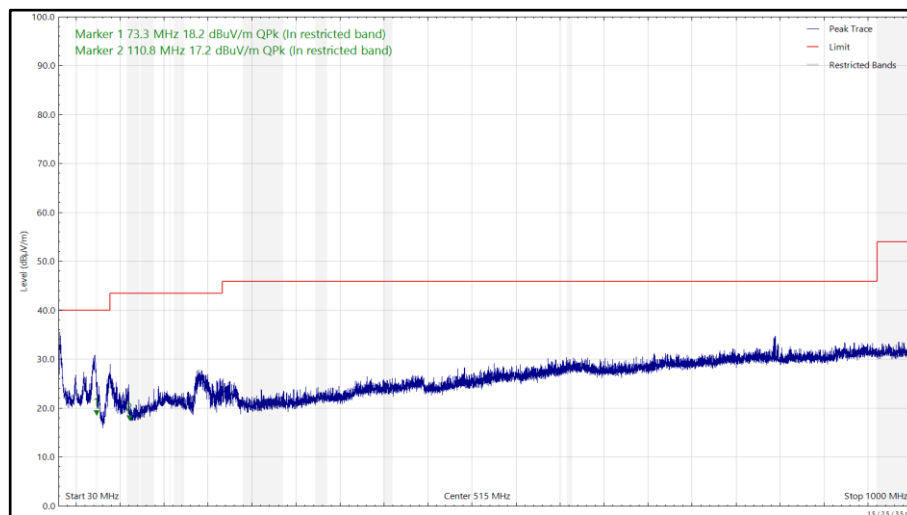


Figure 12 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

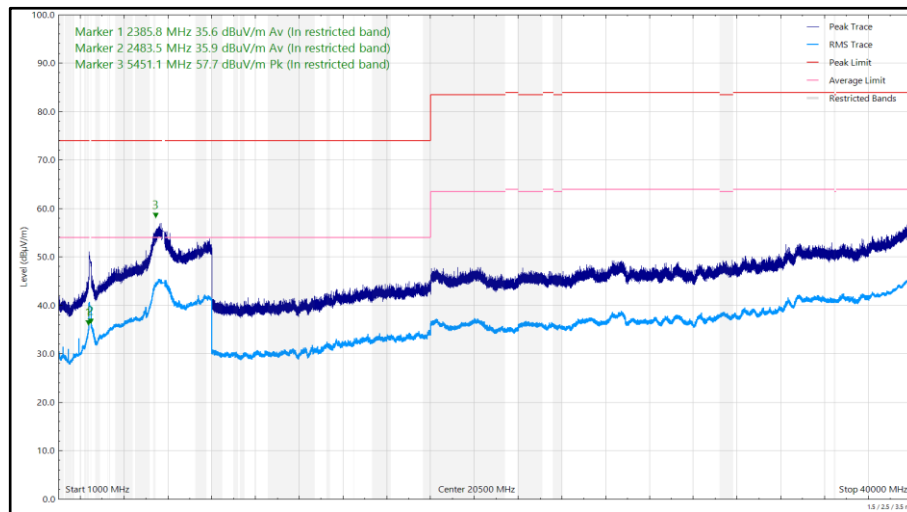


Figure 13 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-20 dBc / -30 dBc
Part 15.407 (b) / RSS-247 Clause 6.6, 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4	-27 dBm e.i.r.p
Part 15.209 / RSS-GEN 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 Clause 7.3.2.3	-27 dBm e.i.r.p
Part 15.407 (b) / RSS-247 Clause 7.3.3.3	-27 dBm e.i.r.p
Part 15.407 (b) / RSS-247 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
73.160	17.86	40.00	-22.14	Q-Peak	344	373	Horizontal
73.351	20.37	40.00	-19.63	Q-Peak	41	102	Vertical
121.301	21.31	43.50	-22.19	Q-Peak	11	260	Horizontal
156.708	23.56	43.50	-19.94	Q-Peak	260	100	Vertical
2388.910	34.62	54.00	-19.38	CISPR Avg	0	346	Vertical
2484.174	34.80	54.00	-19.20	CISPR Avg	10	316	Vertical

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.

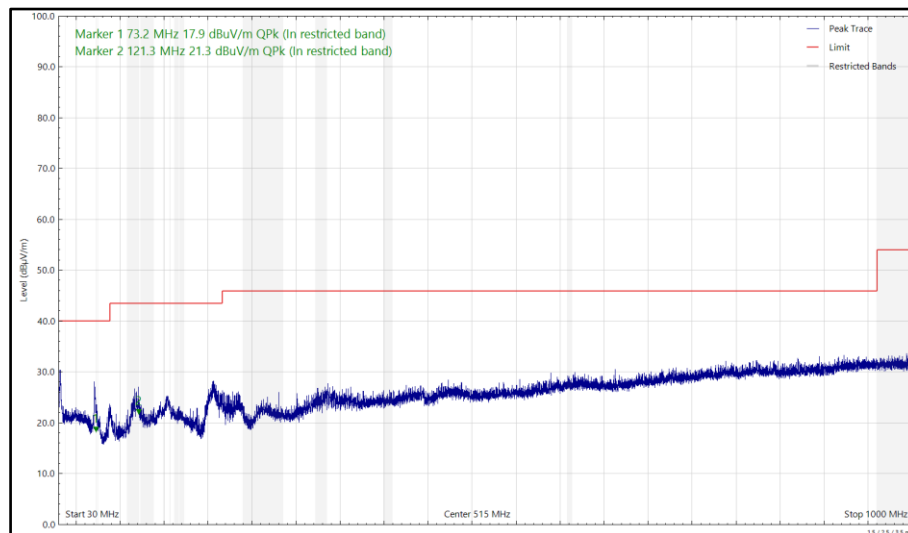


Figure 14 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

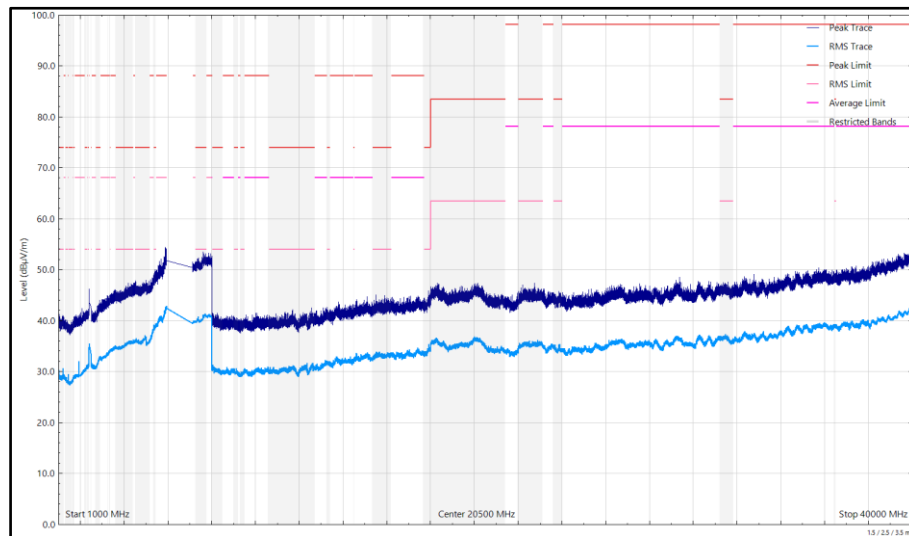


Figure 15 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

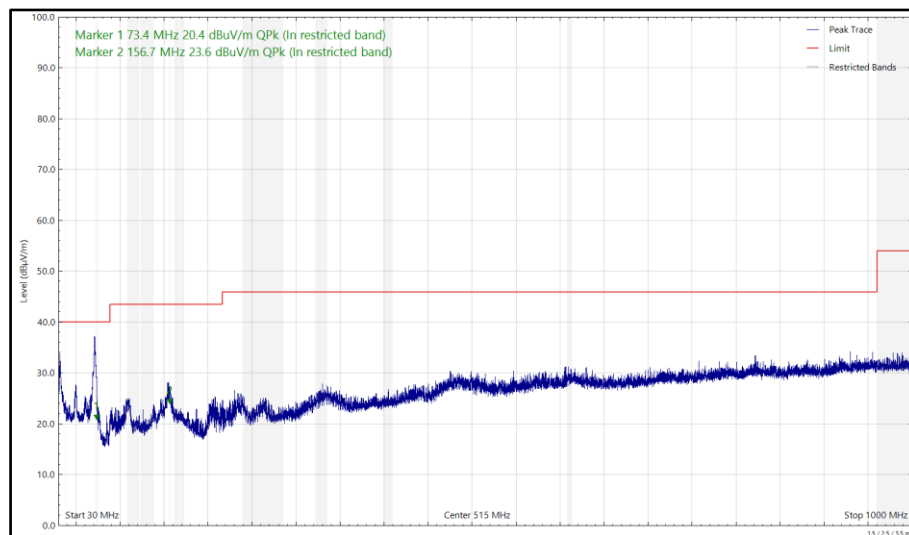


Figure 16 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

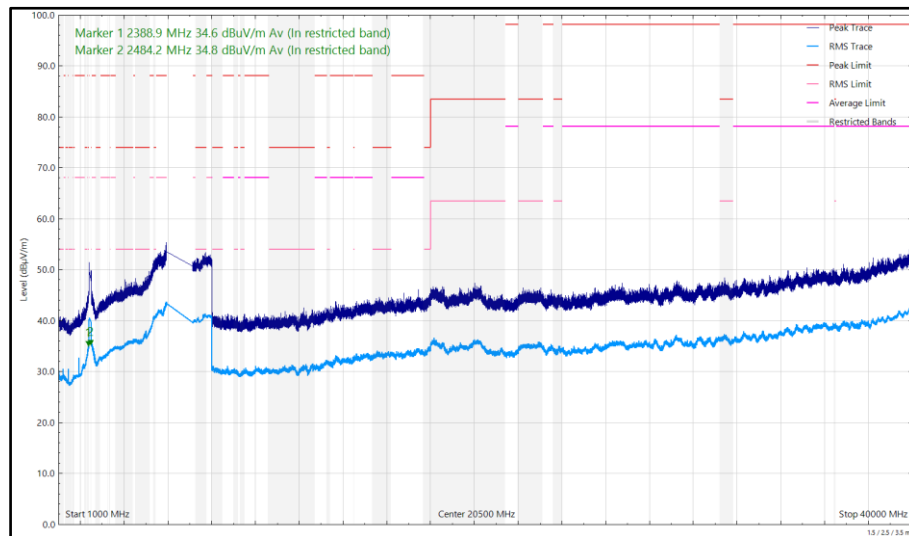


Figure 17 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.215	19.87	40.00	-20.13	Q-Peak	14	129	Vertical
73.848	17.16	40.00	-22.84	Q-Peak	72	259	Horizontal
110.161	19.17	43.50	-24.33	Q-Peak	169	139	Vertical
118.725	21.22	43.50	-22.28	Q-Peak	2	259	Horizontal
2388.936	35.32	54.00	-18.68	CISPR Avg	12	351	Vertical
2389.771	30.24	54.00	-23.76	CISPR Avg	57	362	Horizontal
2484.191	34.50	54.00	-19.50	CISPR Avg	10	373	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.

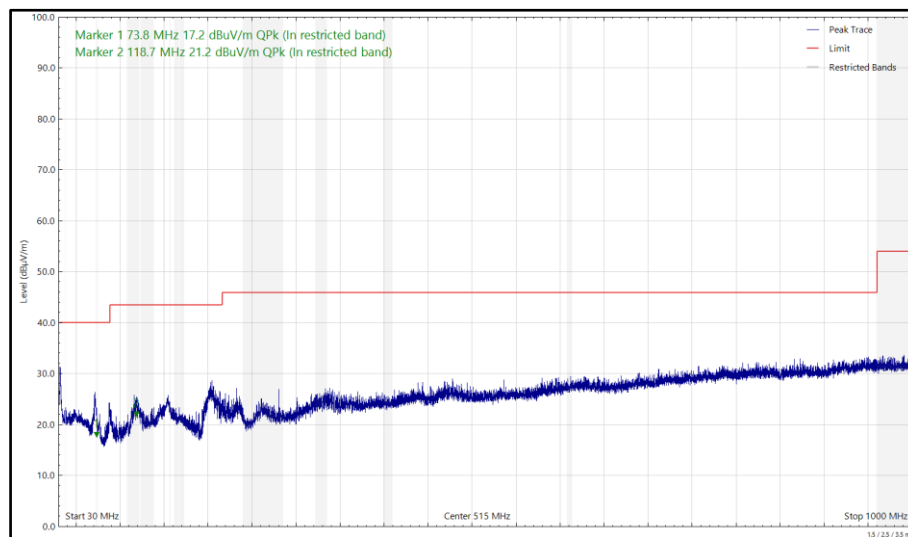


Figure 18 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

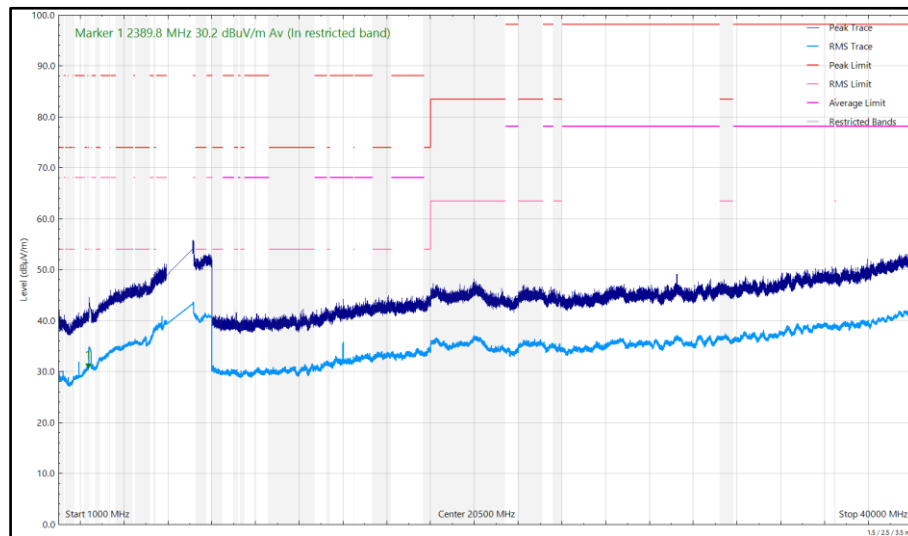


Figure 19 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

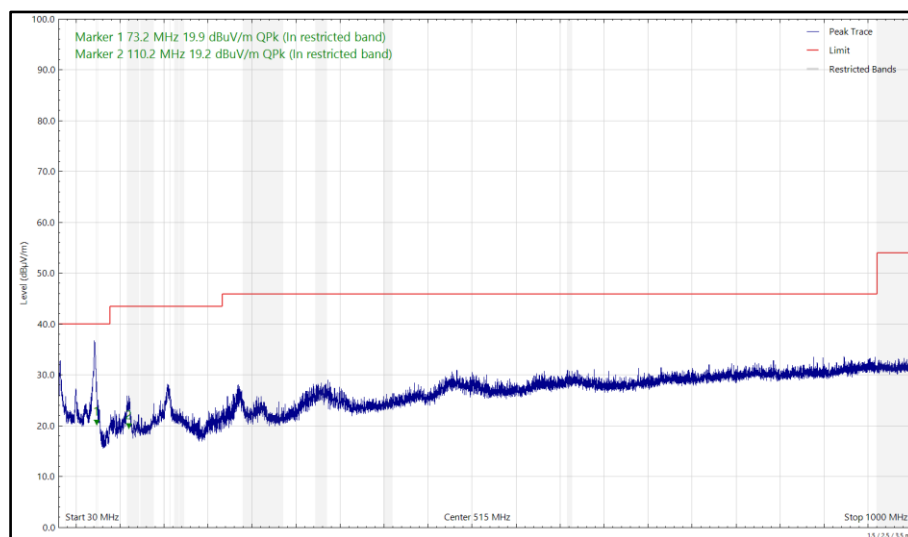


Figure 20 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

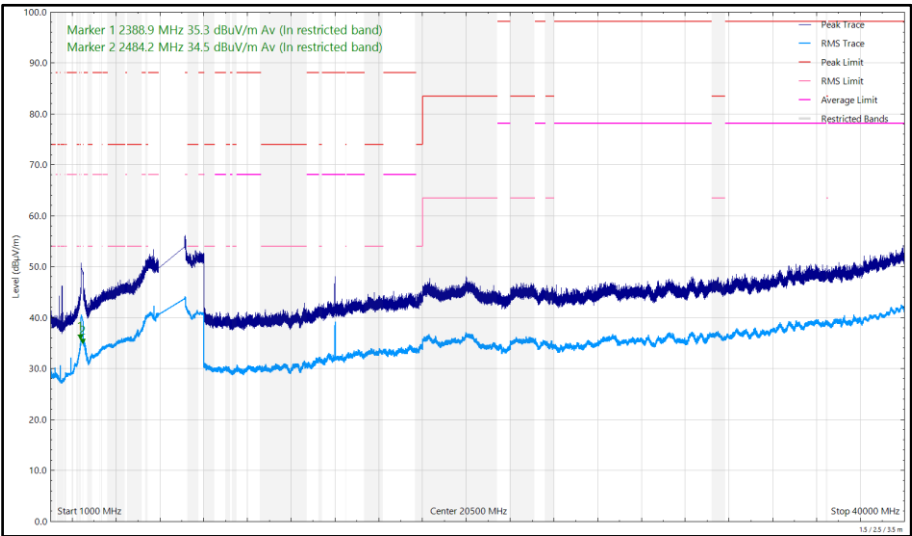


Figure 21 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-20 dBc
Part 15.407 (b) / RSS-248 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 Clause 8.9	Peak: 74 dBμV/m at 3m, Average 54 dBμV/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
73.175	20.62	40.00	-19.38	Q-Peak	34	121	Vertical
73.495	17.48	40.00	-22.52	Q-Peak	175	349	Horizontal
108.275	20.16	43.50	-23.34	Q-Peak	142	100	Vertical
120.876	20.78	43.50	-22.72	Q-Peak	3	256	Horizontal
241.023	19.87	46.00	-26.13	Q-Peak	223	138	Vertical
2386.247	37.56	54.00	-16.44	RMS	7	348	Vertical
2387.439	34.17	54.00	-19.83	RMS	52	395	Horizontal
2483.507	37.31	54.00	-16.69	RMS	360	325	Vertical
5105.591	54.33	74.00	-19.67	Peak	4	338	Vertical
5148.216	39.35	54.00	-14.65	RMS	70	303	Horizontal
5149.830	43.71	54.00	-10.29	RMS	6	251	Vertical
5362.709	41.94	54.00	-12.06	RMS	74	391	Horizontal
5363.261	57.31	74.00	-16.69	Peak	355	284	Vertical
5380.455	45.35	54.00	-8.65	RMS	358	248	Vertical

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.

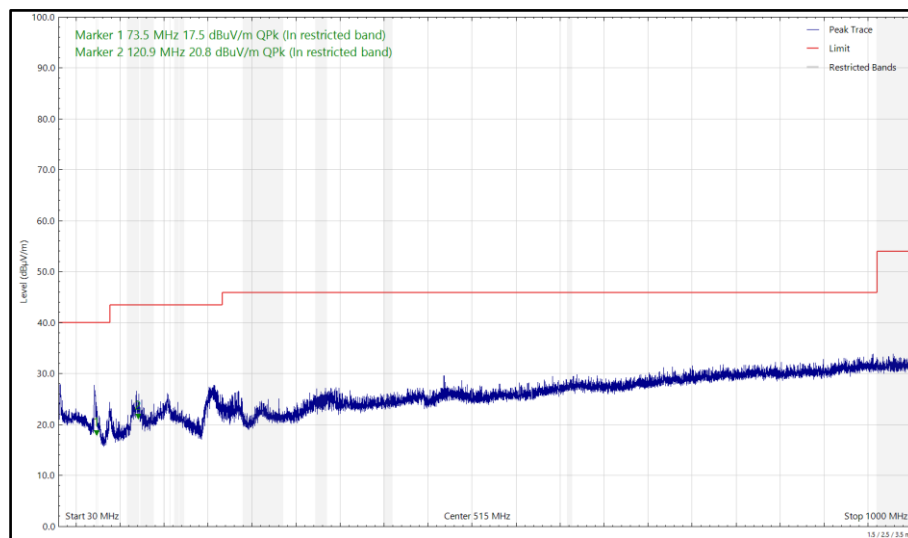


Figure 22 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

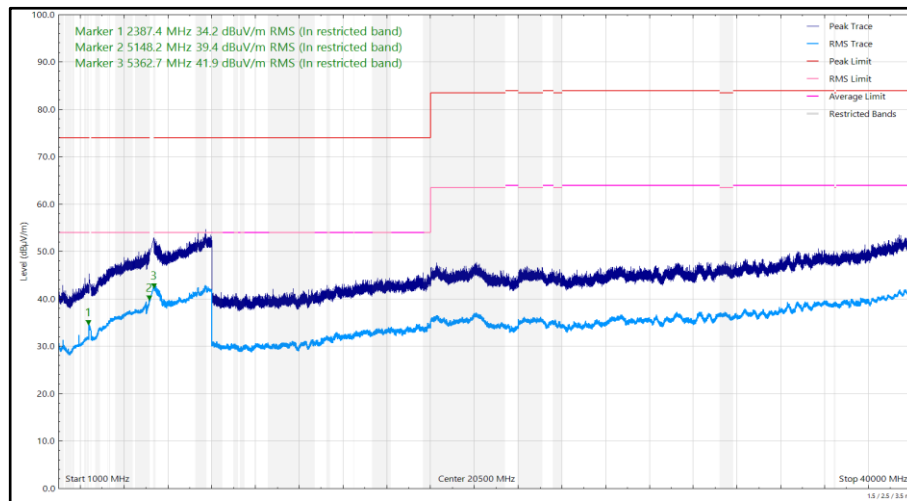


Figure 23 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

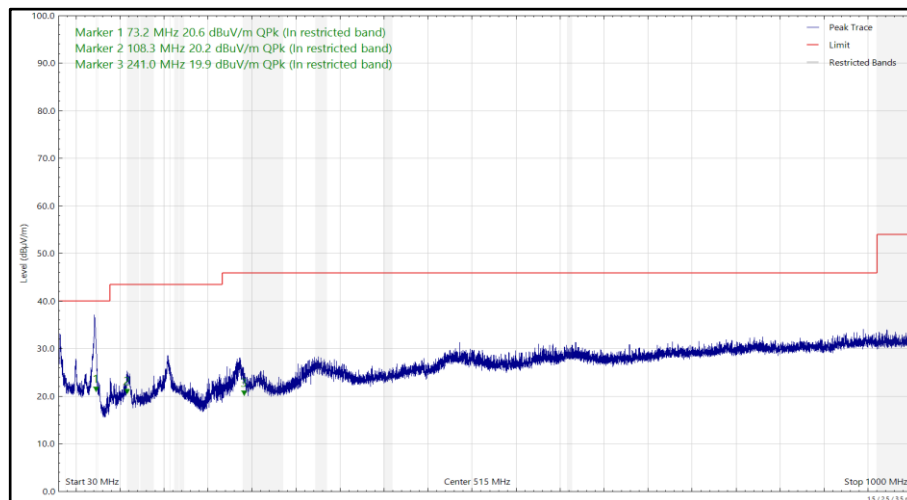


Figure 24 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

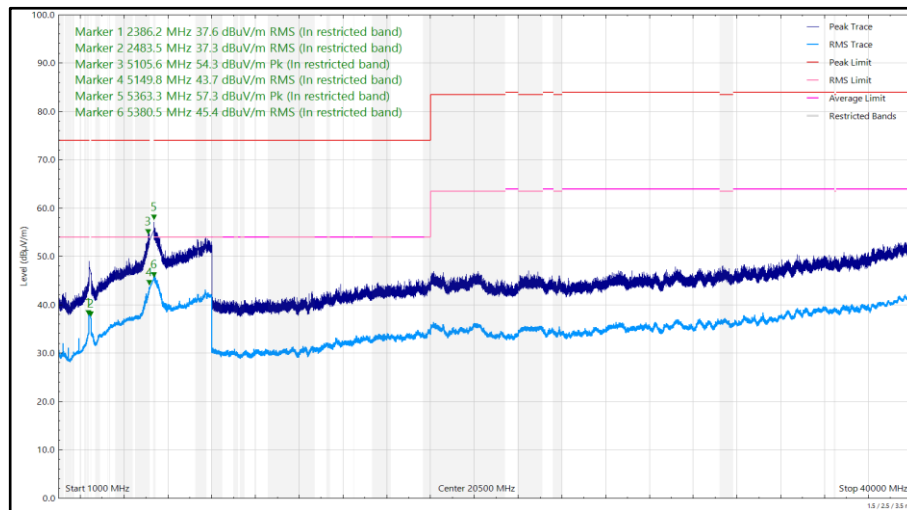


Figure 25 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.002	17.97	40.00	-22.03	Q-Peak	330	393	Horizontal
73.087	20.93	40.00	-19.07	Q-Peak	29	110	Vertical
109.634	20.12	43.50	-23.38	Q-Peak	8	110	Vertical
117.902	20.71	43.50	-22.79	Q-Peak	25	280	Horizontal
2389.773	36.87	54.00	-17.13	RMS	21	304	Vertical
2483.569	38.10	54.00	-15.90	RMS	27	372	Vertical
5116.443	54.98	74.00	-19.02	Peak	6	262	Vertical
5145.428	43.23	54.00	-10.77	RMS	350	343	Vertical
5148.986	39.42	54.00	-14.58	RMS	75	389	Horizontal
5350.290	46.01	54.00	-7.99	RMS	357	265	Vertical
5361.151	42.50	54.00	-11.50	RMS	69	381	Horizontal
5391.385	57.00	74.00	-17.00	Peak	354	273	Vertical

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.

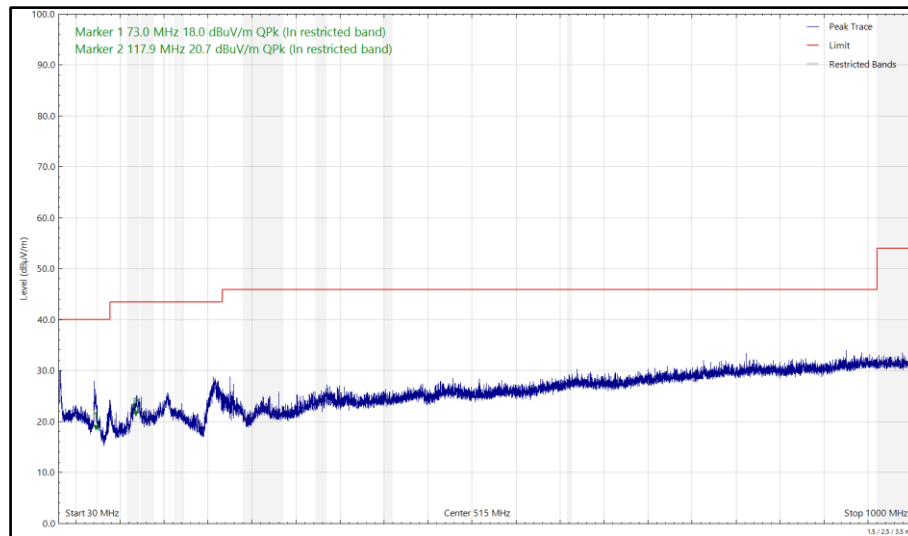


Figure 26 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

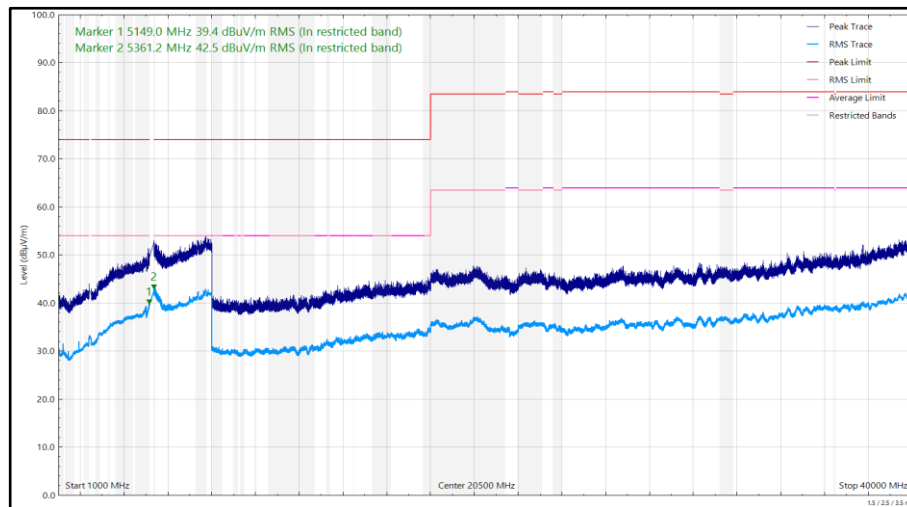


Figure 27 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

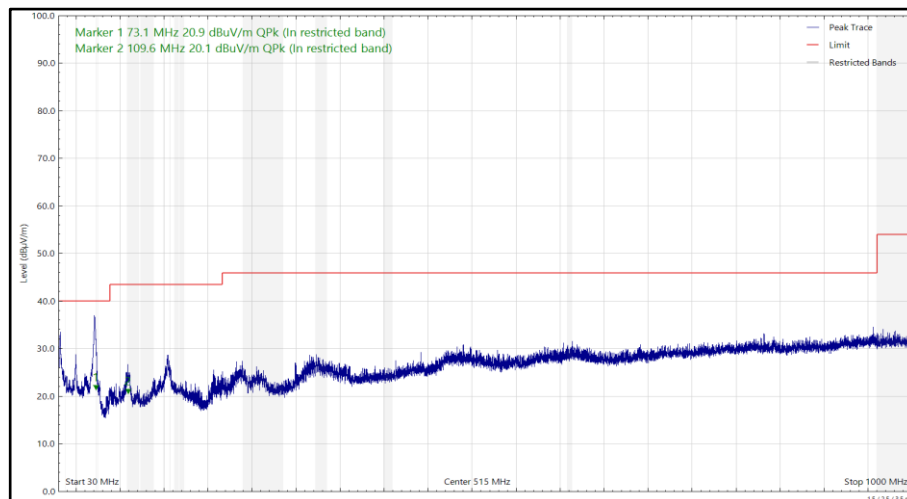


Figure 28 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

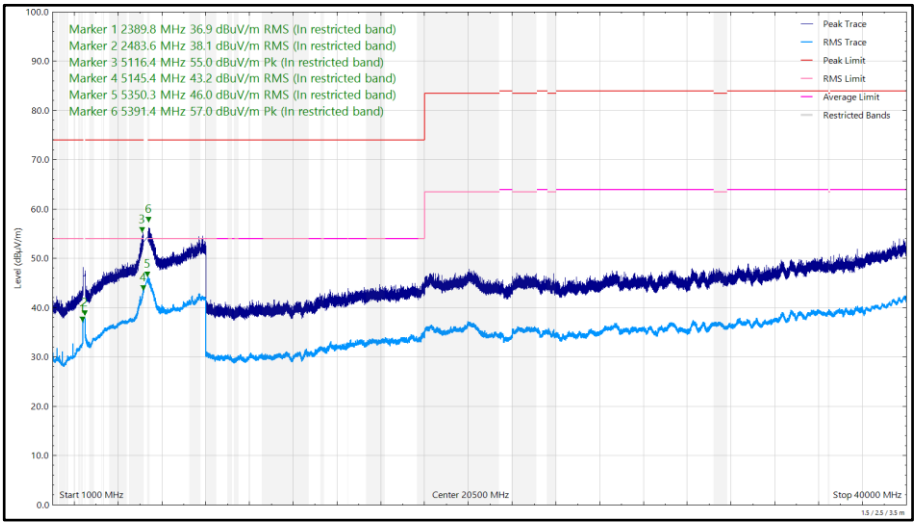


Figure 29 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.141	20.32	40.00	-19.68	Q-Peak	338	123	Vertical
73.164	17.97	40.00	-22.03	Q-Peak	344	398	Horizontal
109.321	19.67	43.50	-23.83	Q-Peak	11	103	Vertical
119.415	19.67	43.50	-23.83	Q-Peak	0	378	Horizontal
2386.981	37.50	54.00	-16.50	RMS	2	310	Vertical
2483.506	38.05	54.00	-15.95	RMS	38	288	Vertical
5417.413	44.58	54.00	-9.42	RMS	0	282	Vertical
5447.605	40.93	54.00	-13.07	RMS	79	385	Horizontal
5459.363	56.01	74.00	-17.99	Peak	355	277	Vertical

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.

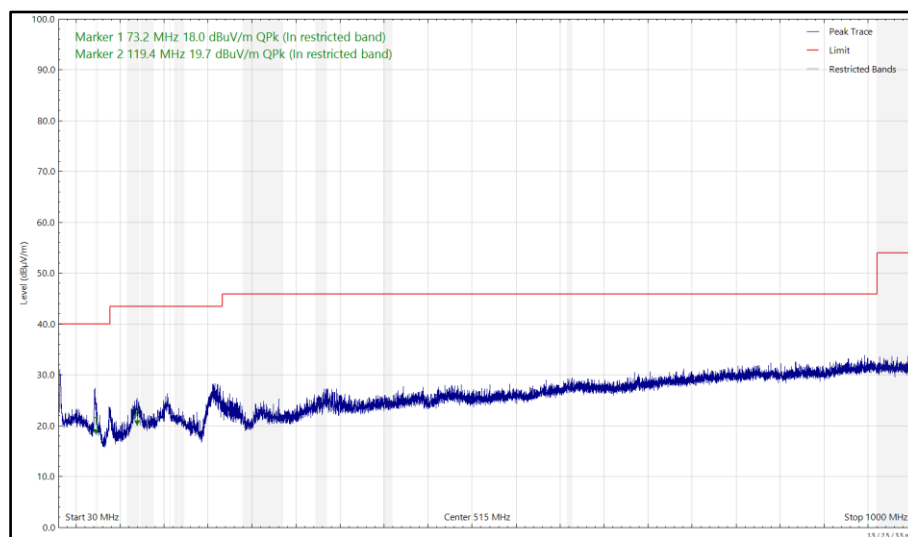


Figure 30 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

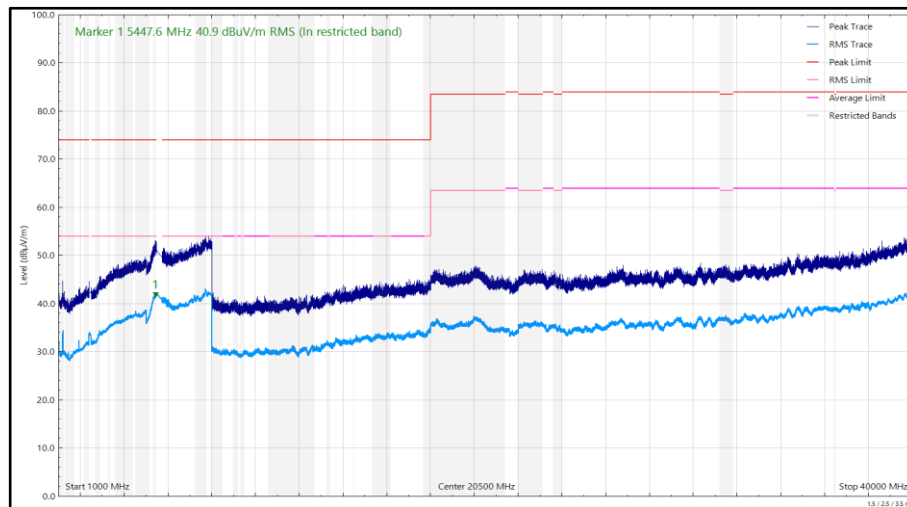


Figure 31 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

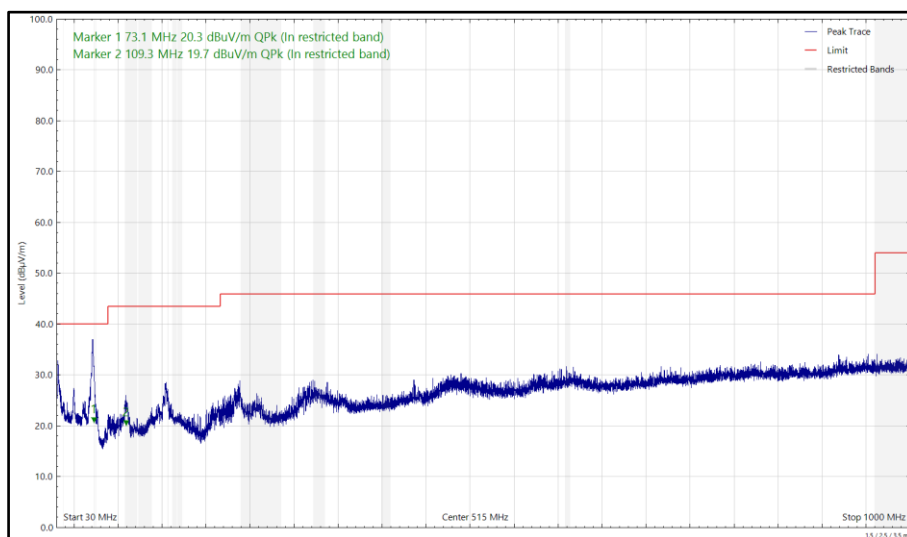


Figure 32 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

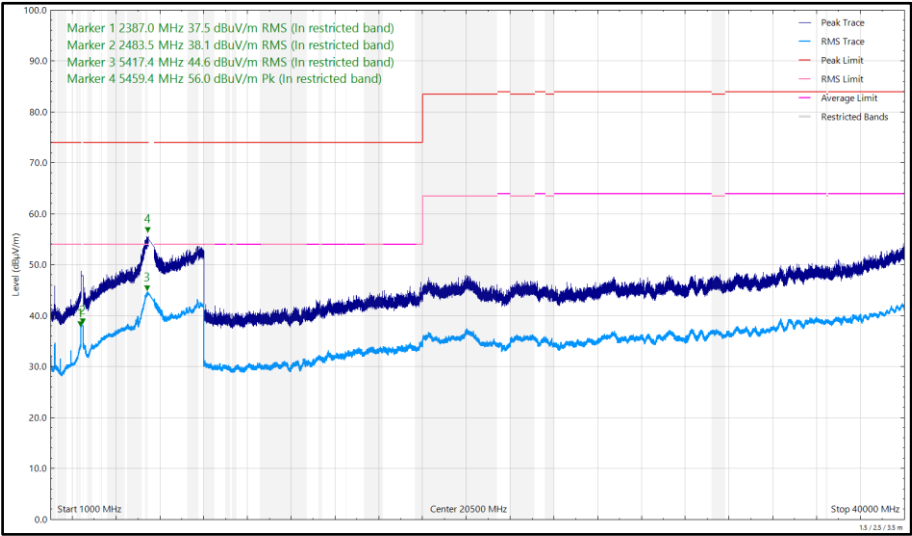


Figure 33 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.231	19.56	40.00	-20.44	Q-Peak	309	100	Vertical
74.323	17.09	40.00	-22.91	Q-Peak	354	362	Horizontal
108.245	20.20	43.50	-23.30	Q-Peak	244	136	Vertical
119.558	18.66	43.50	-24.84	Q-Peak	191	240	Horizontal
276.249	19.45	46.00	-26.55	Q-Peak	156	345	Horizontal
2389.577	37.19	54.00	-16.81	RMS	7	306	Vertical
2483.585	38.25	54.00	-15.75	RMS	21	327	Vertical
5426.181	56.49	74.00	-17.51	Peak	357	273	Vertical
5426.305	44.71	54.00	-9.29	RMS	357	289	Vertical
5457.186	41.92	54.00	-12.08	RMS	69	396	Horizontal

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.

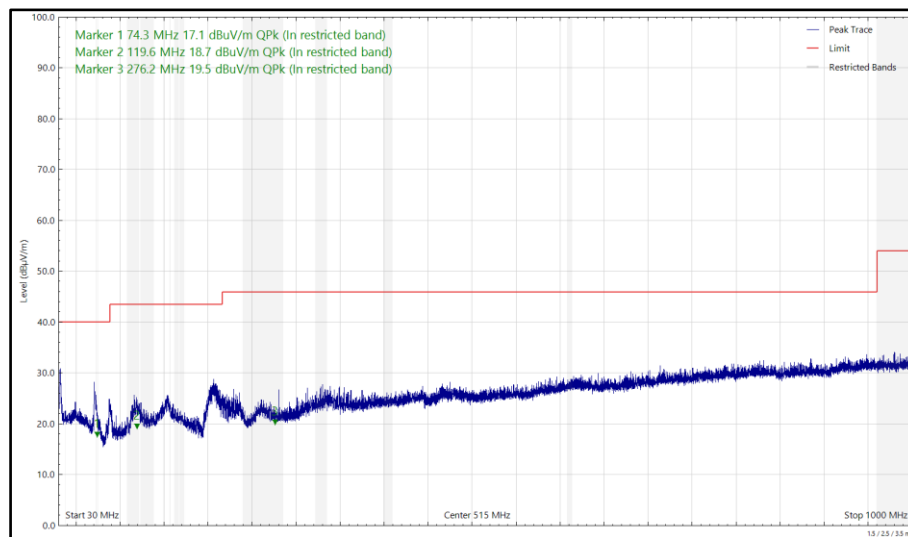


Figure 34 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

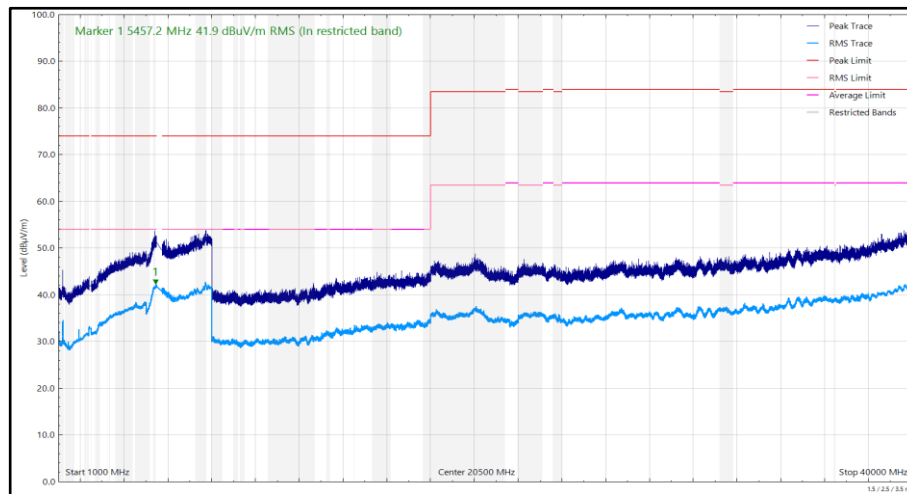


Figure 35 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

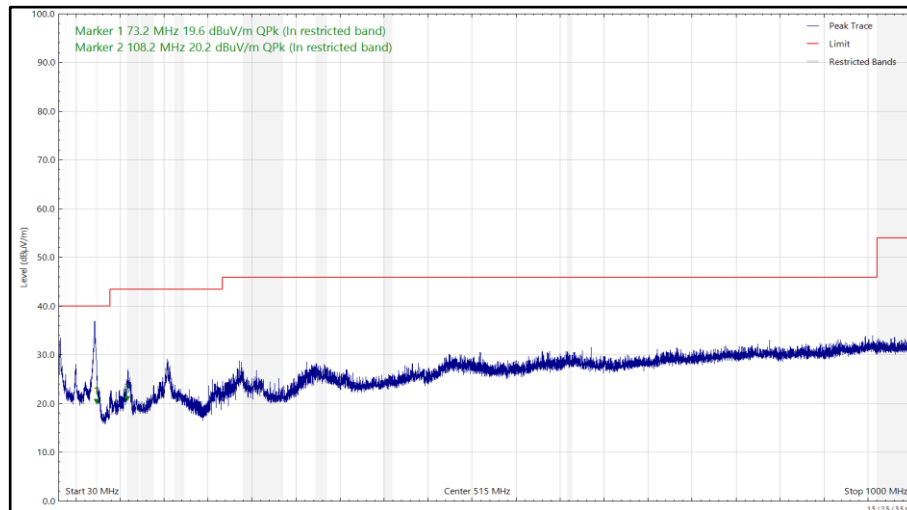


Figure 36 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

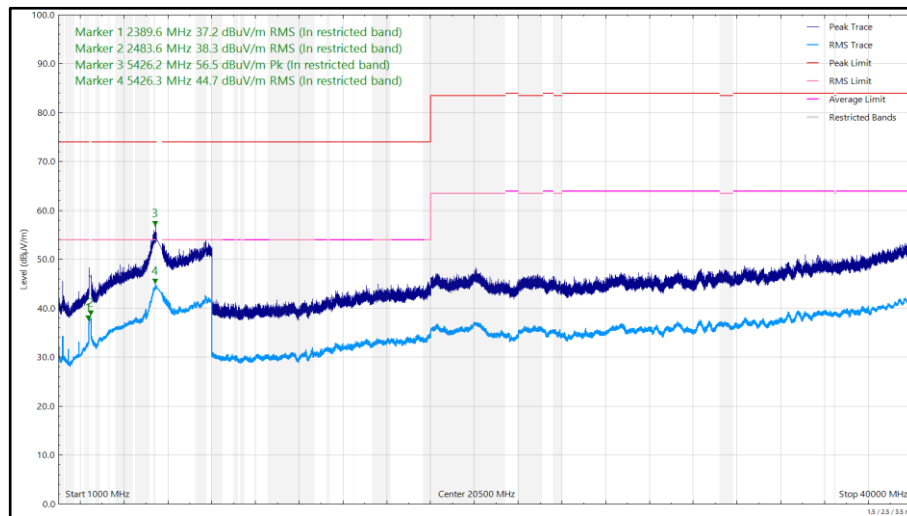


Figure 37 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.068	21.57	40.00	-18.43	Q-Peak	349	100	Vertical
73.146	17.56	40.00	-22.44	Q-Peak	21	368	Horizontal
110.389	20.26	43.50	-23.24	Q-Peak	257	128	Vertical
119.358	20.39	43.50	-23.11	Q-Peak	10	368	Horizontal
2389.205	38.03	54.00	-15.97	RMS	18	319	Vertical
2483.783	37.47	54.00	-16.53	RMS	34	304	Vertical
5423.707	54.96	74.00	-19.04	Peak	358	279	Vertical
5426.762	43.97	54.00	-10.03	RMS	0	273	Vertical
5458.466	41.32	54.00	-12.68	RMS	71	392	Horizontal

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.

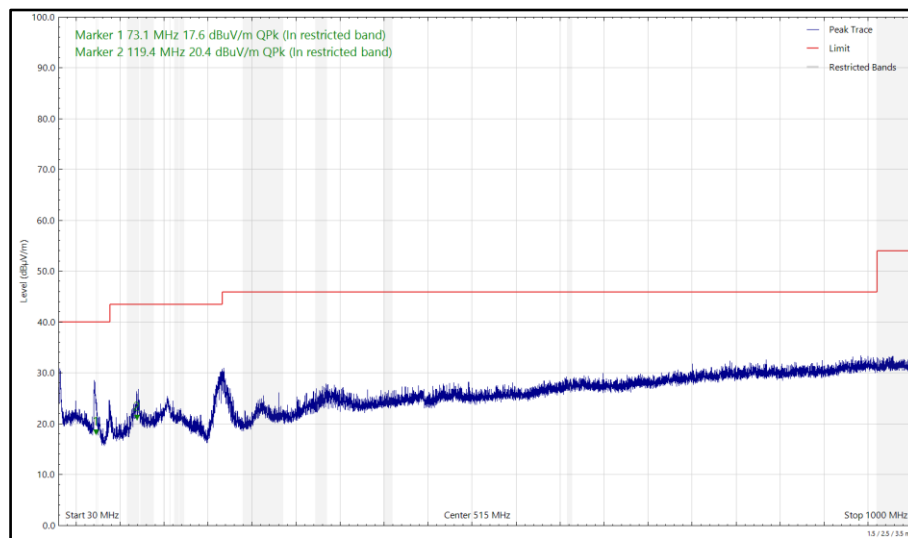


Figure 38 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

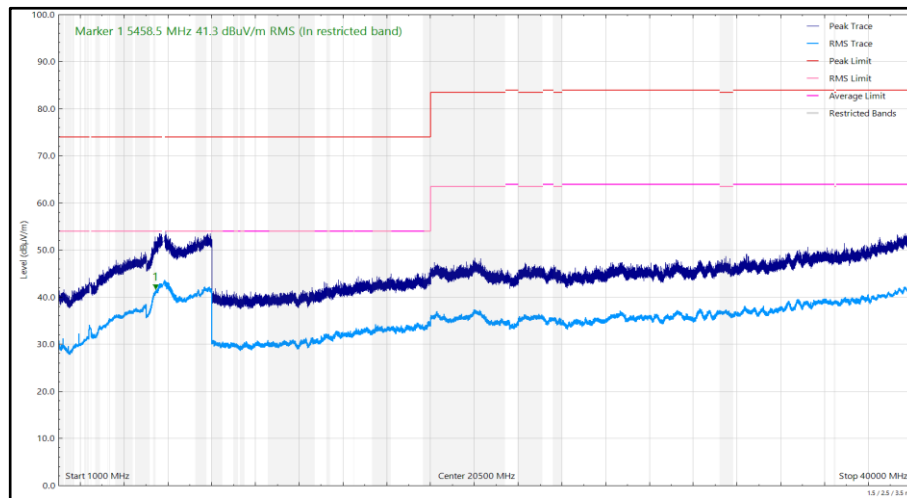


Figure 39 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

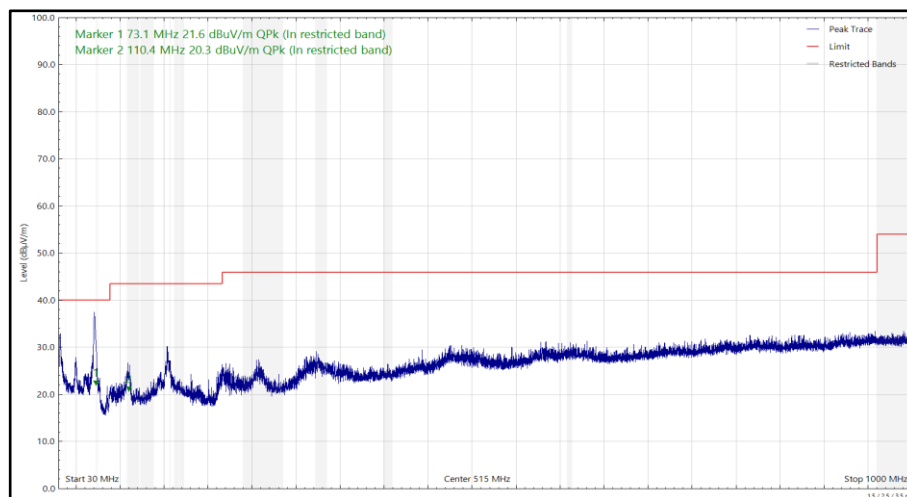


Figure 40 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

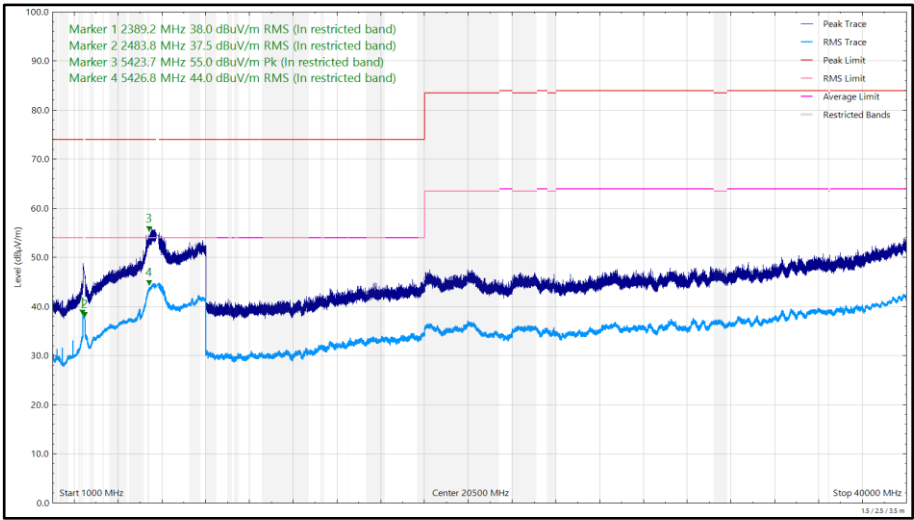


Figure 41 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.007	21.75	40.00	-18.25	Q-Peak	12	100	Vertical
73.314	17.82	40.00	-22.18	Q-Peak	356	390	Horizontal
109.990	21.10	43.50	-22.40	Q-Peak	7	111	Vertical
117.038	19.48	43.50	-24.02	Q-Peak	21	258	Horizontal
2389.486	36.08	54.00	-17.92	RMS	345	400	Vertical
2483.795	37.78	54.00	-16.22	RMS	31	383	Vertical
5393.390	42.47	54.00	-11.53	RMS	351	348	Vertical
5405.685	54.12	74.00	-19.88	Peak	356	371	Vertical
5458.646	41.25	54.00	-12.75	RMS	74	365	Horizontal

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.

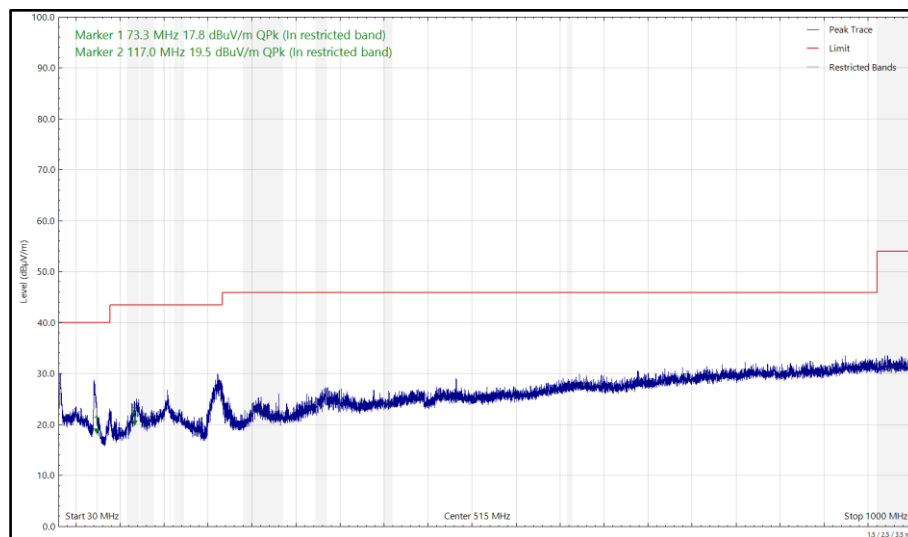


Figure 42 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

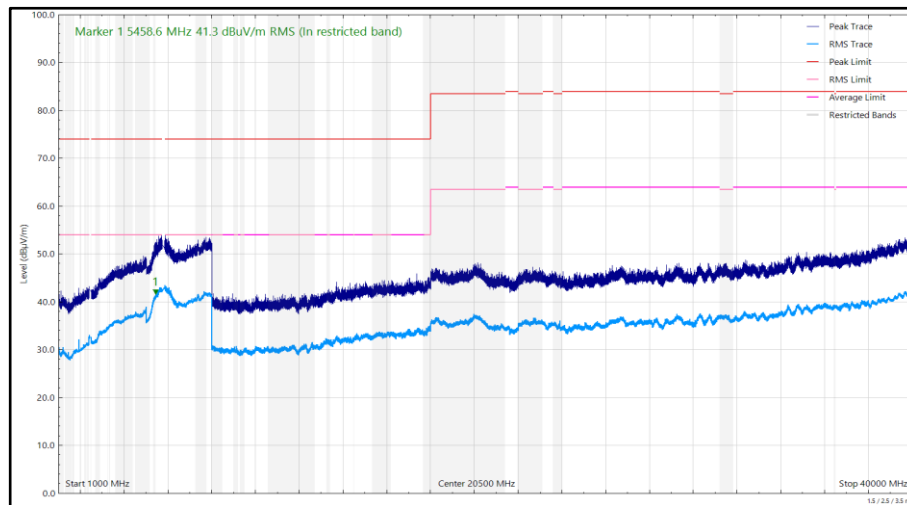


Figure 43 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

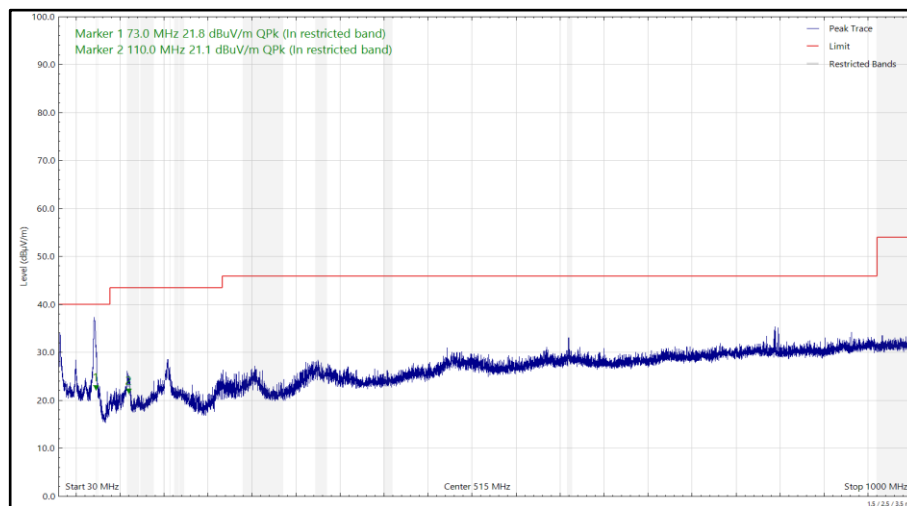


Figure 44 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

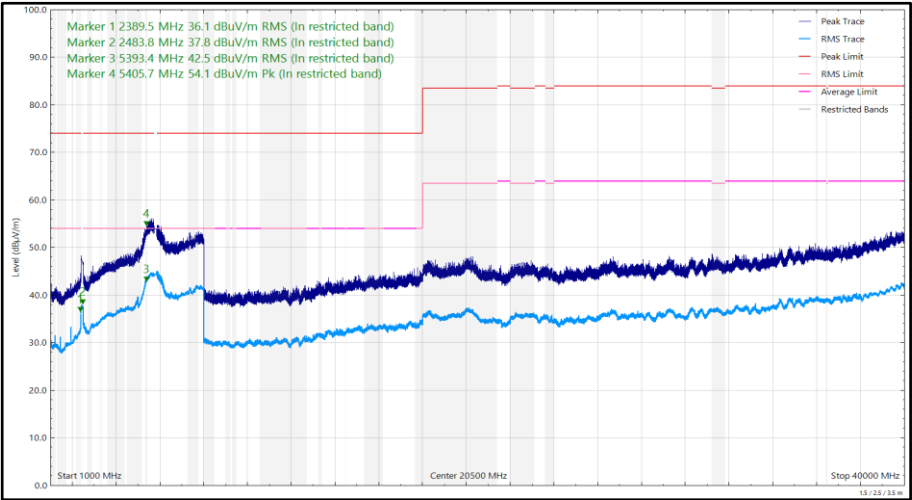


Figure 45 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical

FCC 47 CFR Part 15, ISED RSS-247 and ISED 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 Clause 6.6	-20 dBc / -30 dBc
Part 15.407 (b) / RSS-247 Clause 6.6, 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4	-27 dBm e.i.r.p
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBµV/m at 3m, Average 54 dBµV/m at 3m (Restricted bands > 1 GHz)
Part 15.407 (b) / RSS-247 Clause 7.3.2.3	-27 dBm e.i.r.p
Part 15.407 (b) / RSS-247 Clause 7.3.3.3	-27 dBm e.i.r.p
Part 15.407 (b) / RSS-247 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
73.280	22.77	40.00	-17.23	Q-Peak	47	100	Vertical
74.096	17.13	40.00	-22.87	Q-Peak	124	390	Horizontal
108.011	31.15	43.50	-12.35	Q-Peak	327	109	Vertical
113.351	26.47	43.50	-17.03	Q-Peak	14	266	Horizontal
2386.906	37.47	54.00	-16.53	RMS	360	353	Vertical
2483.663	36.16	54.00	-17.84	RMS	14	377	Vertical
5438.713	41.02	54.00	-12.98	RMS	360	294	Vertical
5454.968	37.42	54.00	-16.58	RMS	281	317	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.

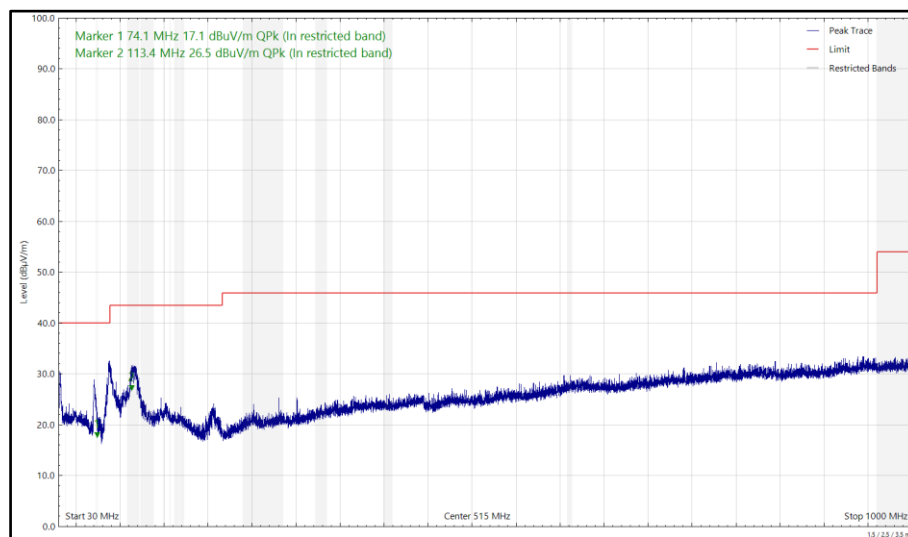


Figure 46 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

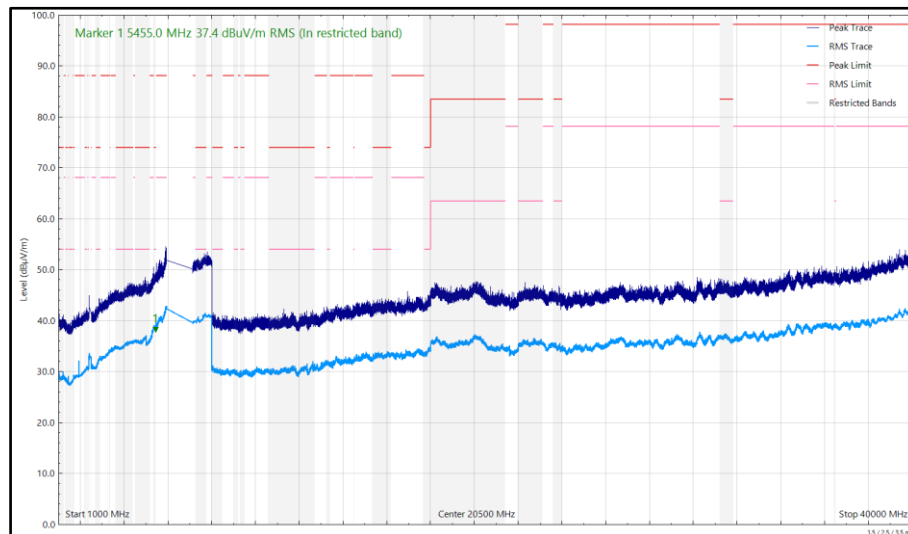


Figure 47 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

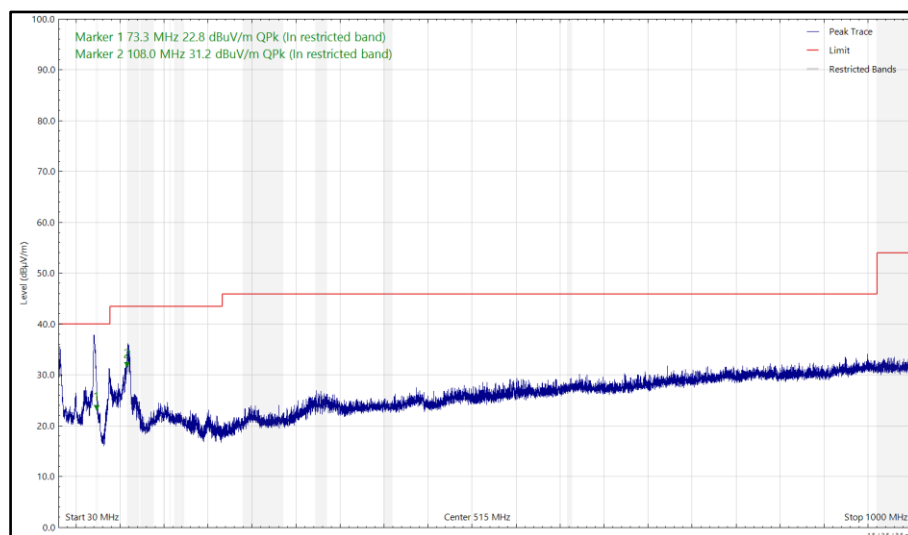


Figure 48 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

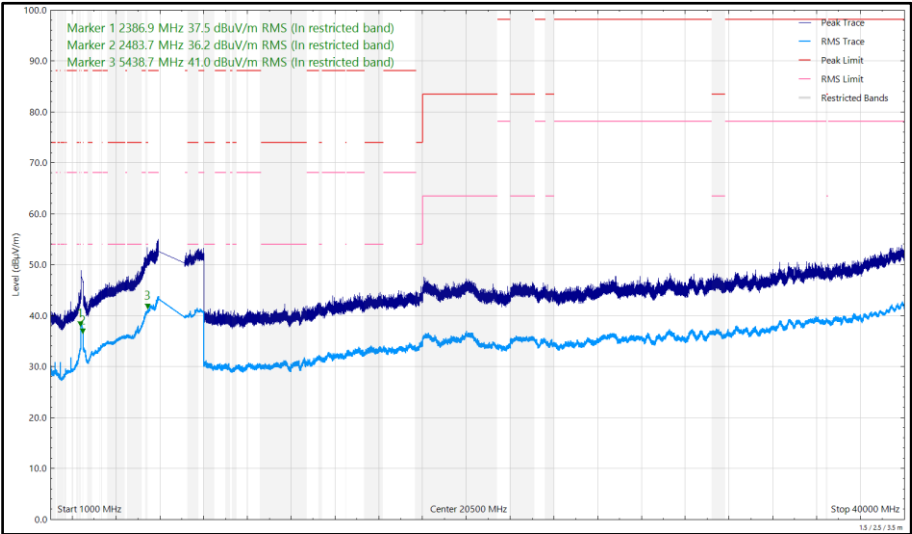


Figure 49 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.068	22.75	40.00	-17.25	Q-Peak	11	100	Vertical
109.498	28.72	43.50	-14.78	Q-Peak	209	101	Vertical
117.705	22.64	43.50	-20.86	Q-Peak	4	398	Horizontal
2389.959	36.31	54.00	-17.69	RMS	358	363	Vertical
2483.783	38.00	54.00	-16.00	RMS	30	376	Vertical
5418.712	39.08	54.00	-14.92	RMS	73	365	Horizontal
5458.894	41.32	54.00	-12.68	RMS	360	287	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.

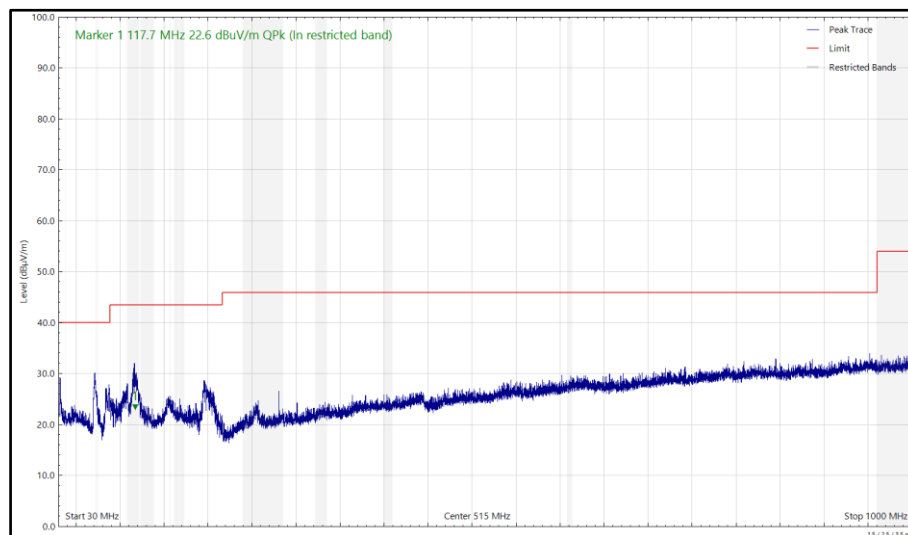


Figure 50 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

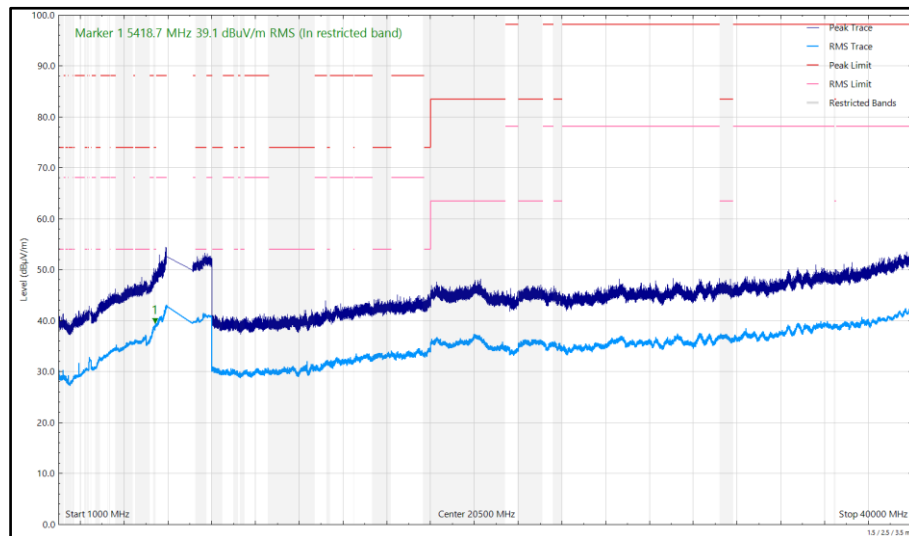


Figure 51 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

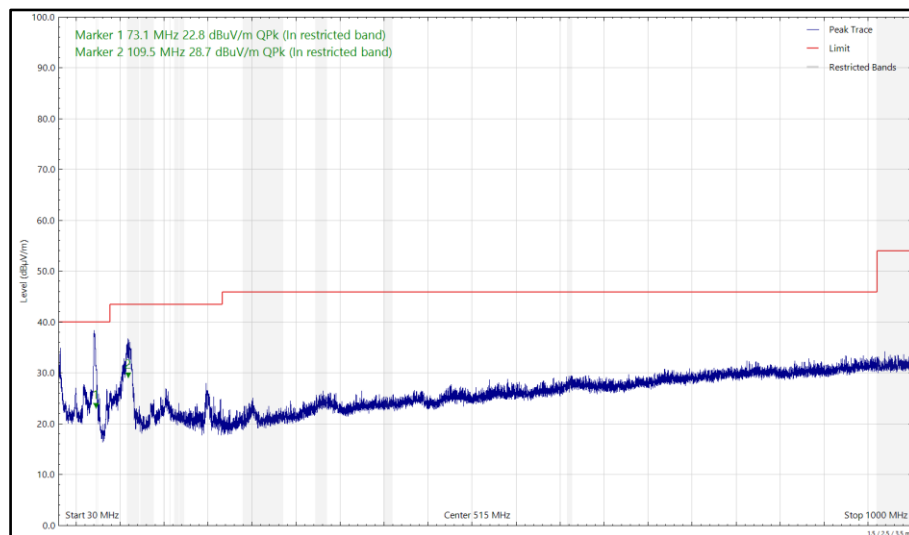


Figure 52 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

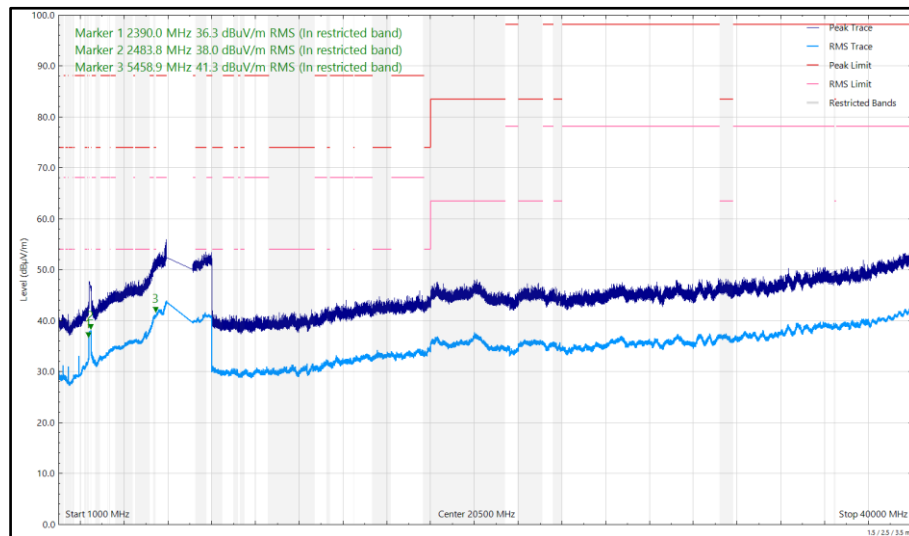


Figure 53 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
38.027	20.06	40.00	-19.94	Q-Peak	115	284	Horizontal
73.065	19.75	40.00	-20.25	Q-Peak	0	386	Horizontal
74.919	18.20	40.00	-21.80	Q-Peak	103	120	Vertical
108.160	32.11	43.50	-11.39	Q-Peak	0	101	Vertical
116.126	23.70	43.50	-19.80	Q-Peak	343	400	Horizontal
131.947	18.53	43.50	-24.97	Q-Peak	317	332	Vertical
156.736	21.73	43.50	-21.77	Q-Peak	119	126	Horizontal
2389.892	37.67	54.00	-16.33	RMS	0	355	Vertical
2483.533	37.37	54.00	-16.63	RMS	39	381	Vertical
5431.148	38.08	54.00	-15.92	RMS	78	381	Horizontal
5432.100	40.54	54.00	-13.46	RMS	0	289	Vertical
7263.935	40.93	54.00	-13.07	RMS	24	173	Vertical

Table 22 - 6995 MHz (CH209), 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.

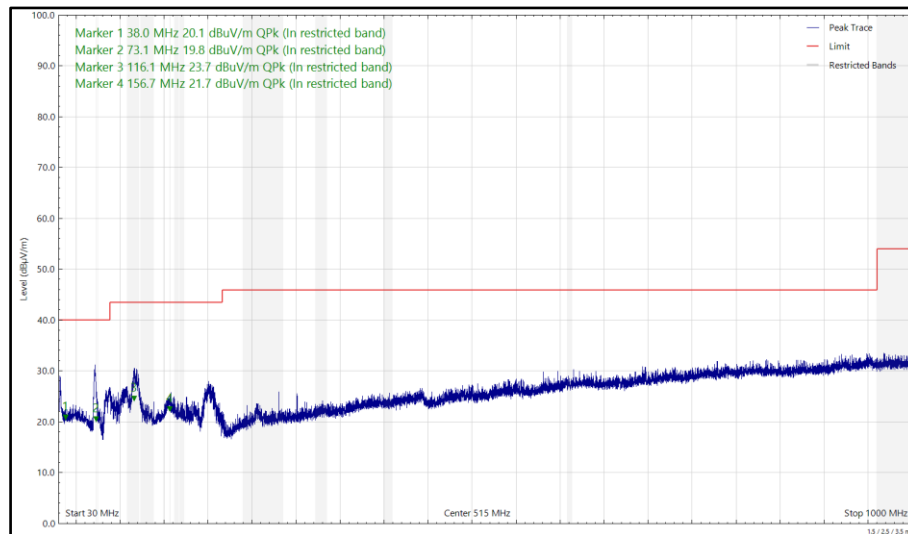


Figure 54 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

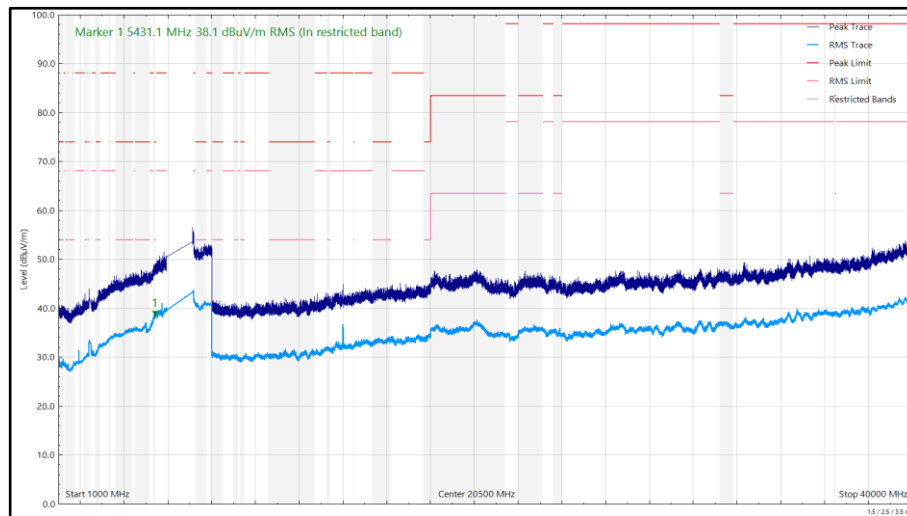


Figure 55 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

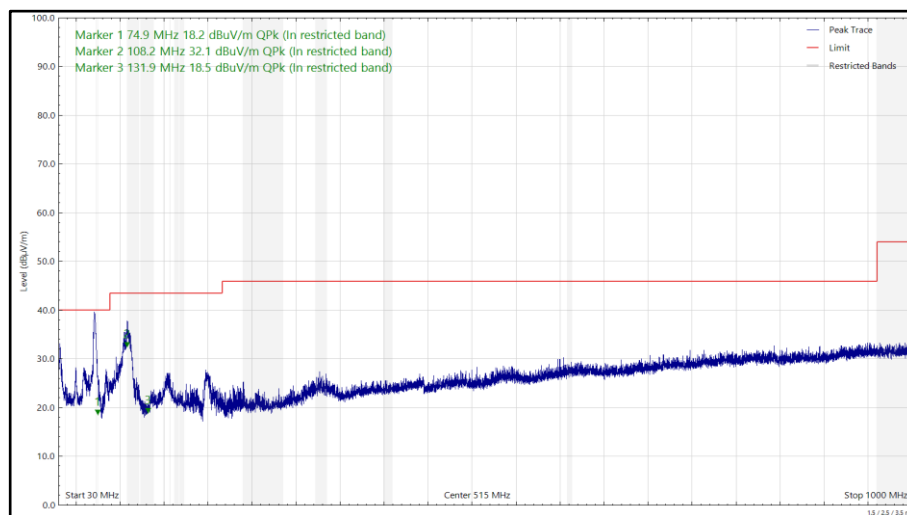


Figure 56 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

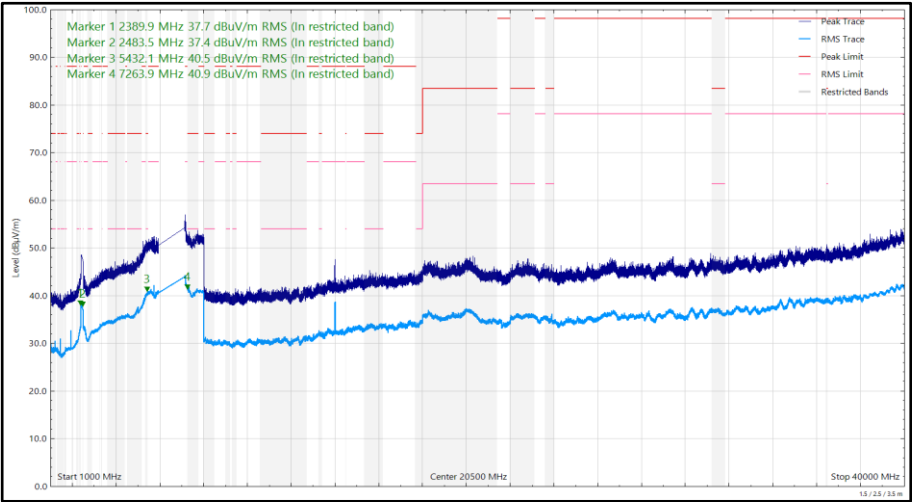


Figure 57 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical