

FCC and ISED Test Report

Apple Inc
Model: A3589

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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FCC ID: BCGA3589 IC: 579C-A3589

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Document 75967127-21 Issue 01



SIGNATURE			
NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Andreas Euripidou	Senior Engineer (RF)	Authorised Signatory	15 June 2026

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD 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 Generation	Rachael Watkins	15 June 2026	

FCC Accreditation ISED Accreditation
553713/UK2026 Concorde Park, Fareham Test Laboratory 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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Contents

1	Report Summary	2
1.1	Report Modification Record.....	2
1.2	Introduction.....	2
1.3	Brief Summary of Results	3
1.4	Product Information	7
1.5	Deviations from the Standard.....	7
1.6	Identification of the EUT	7
1.7	EUT Modification Record	8
1.8	Test Location	9
2	Test Details	11
2.1	Radiated Spurious Emissions (Simultaneous Transmission)	11
3	Measurement Uncertainty	61



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	15 June 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	29-March-2026
Finish of Test	17-May-2026
Name of Engineer(s)	Morsalin Hossain, Colin Brain, Vineeth Nagaraj, Dulanjan Witharamalage, Ian Hart, Marius Vasii, Zeeshan Zia, Manohar Thota, and Tony Baby.
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 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 C63.26 (2015) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02
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 C63.26 (2015) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02
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 C63.26 (2015) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02



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 C63.26 (2015) ANSI C63.10 (2020) +Cor.1- 2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02
Configuration and Mode: 2.4 GHz WLAN, 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 C63.26 (2015) ANSI C63.10 (2020) +Cor.1- 2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02
Configuration and Mode: 2.4 GHz WLAN, 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 C63.26 (2015) ANSI C63.10 (2020) +Cor.1- 2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02
Configuration and Mode: 2.4 GHz WLAN, 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 C63.26 (2015) ANSI C63.10 (2020) +Cor.1- 2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02



Configuration and Mode: 2.4 GHz WLAN, 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 C63.26 (2015) ANSI C63.10 (2020) +Cor.1- 2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02
Configuration and Mode: 2.4 GHz WLAN, 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 C63.26 (2015) ANSI C63.10 (2020) +Cor.1- 2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02
Configuration and Mode: 2.4 GHz WLAN, 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 C63.26 (2015) ANSI C63.10 (2020) +Cor.1- 2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02



Configuration and Mode: 2.4 GHz Bluetooth and Narrowband							
2.1	15.407(b) & 15.247(d)	5.5 & 6.2	-	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.26 (2015) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02
Configuration and Mode: Thread and Narrowband							
2.1	15.209, 15.407(b) & 15.247(d)	5.5 & 6.2	-	6.13 & 8.19	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.26 (2015) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02

Table 2



1.4 Product Information

1.4.1 Technical Description

The equipment under test (EUT) was a desktop 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: A3589		
Serial Number	Hardware Version	Software Version
KR9CWW5FPP	REV1.0	26A285
MHJ59WH0CN	REV1.0	26A285
KMWY94GPQR	REV1.0	26A285
HJH9D62QY3	REV1.0	26A285
G62KP4C2XK	REV1.0	26A285
KFJVX07KXM	REV1.0	26A285; 26A322

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: A3589, Serial Number: KFJVX07KXM			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3589, Serial Number: KR9CWW5FPP			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3589, Serial Number: MHJ59WH0CN			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3589, Serial Number: KMWY94GPQR			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3589, Serial Number: HJH9D62QY3			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3589, Serial Number: G62KP4C2XK			
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)	Morsalin Hossain, Colin Brain, Vineeth Nagaraj, Dulanjan Witharamalage, Ian Hart	UKAS
Configuration and Mode: 6 GHz WLAN and 2.4 GHz Bluetooth		
Radiated Spurious Emissions (Simultaneous Transmission)	Morsalin Hossain, Colin Brain, Vineeth Nagaraj, Marius Vasii, Ian Hart	UKAS
Configuration and Mode: 5 GHz WLAN and Thread		
Radiated Spurious Emissions (Simultaneous Transmission)	Morsalin Hossain, Zeeshan Zia, Colin Brain, Vineeth Nagaraj, Manohar Thota	UKAS
Configuration and Mode: 6 GHz WLAN and Thread		
Radiated Spurious Emissions (Simultaneous Transmission)	Zeeshan Zia, Vineeth Nagaraj, Manohar Thota, Ian Hart	UKAS
Configuration and Mode: 2.4 GHz WLAN, 2.4 GHz Bluetooth and 5 GHz Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Vineeth Nagaraj, Manohar Thota and Zeeshan Zia	UKAS
Configuration and Mode: 2.4 GHz WLAN, Thread and 5 GHz Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Zeeshan Zia, Manohar Thota, Vineeth Nagaraj.	UKAS
Configuration and Mode: 2.4 GHz WLAN, 2.4 GHz Bluetooth and 5 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Tony Baby, Vineeth Nagaraj, Colin Brain	UKAS
Configuration and Mode: 2.4 GHz WLAN, 2.4 GHz Bluetooth and 6 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Tony Baby, Vineeth Nagaraj, Colin Brain	UKAS



Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 5 GHz WLAN and 2.4 GHz Bluetooth		
Configuration and Mode: 2.4 GHz WLAN, Thread and 5 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Tony Baby, Vineeth Nagaraj, Colin Brain	UKAS
Configuration and Mode: 2.4 GHz WLAN, Thread and 6 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Tony Baby, Vineeth Nagaraj, Colin Brain	UKAS
Configuration and Mode: 2.4 GHz Bluetooth and Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Colin Brain, Vineeth Nagaraj, Manohar Thota and Zeeshan Zia.	UKAS
Configuration and Mode: Thread and Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Zeeshan Zia and Manohar Thota	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

A3589, S/N: KR9CWW5FPP - Modification State 0
A3589, S/N: MHJ59WH0CN - Modification State 0
A3589, S/N: KMWY94GPQR - Modification State 0
A3589, S/N: HJH9D62QY3 - Modification State 0
A3589, S/N: G62KP4C2XK - Modification State 0
A3589, S/N: KFJVX07KXM - Modification State 0

2.1.3 Date of Test

29-March-2026 to 17-May-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:
 $10^{(\text{Field Strength in dB}\mu\text{V/m}/20)}$

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 $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.

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.

2.1.5 Example Test Setup Diagram

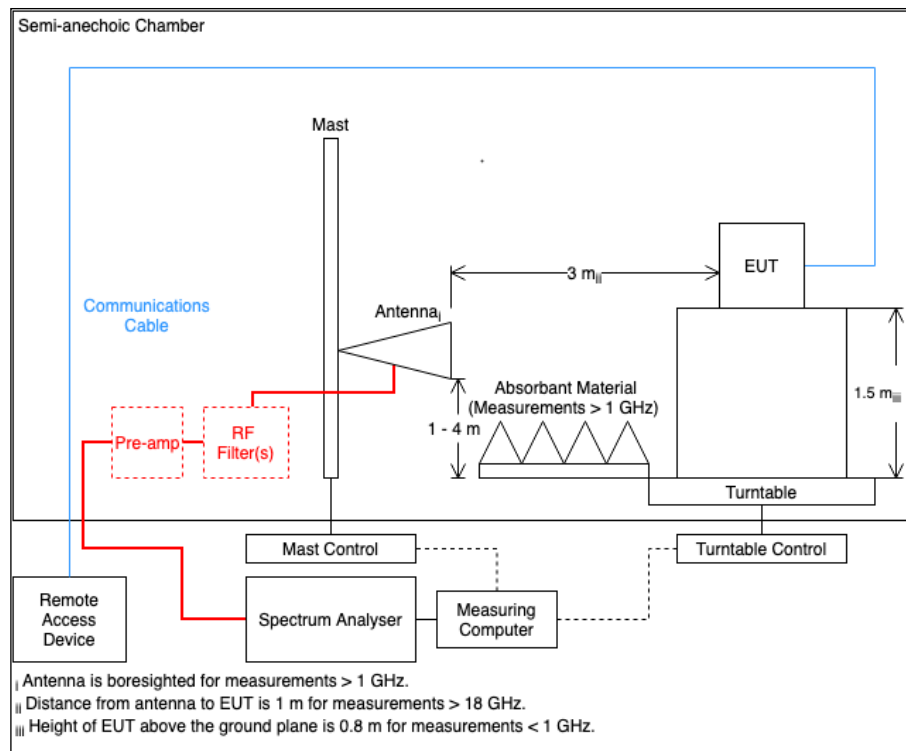


Figure 1

2.1.6 Environmental Conditions

Ambient Temperature	21.2 - 24.5 °C
Relative Humidity	30.1 - 37.8 %

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
127.151	20.48	43.50	-23.02	Q-Peak	1	120	Vertical
162.896	21.94	43.50	-21.56	Q-Peak	85	208	Vertical
164.712	21.76	43.50	-21.74	Q-Peak	202	384	Horizontal
251.844	23.59	46.00	-22.41	Q-Peak	198	111	Horizontal
2388.451	31.57	54.00	-22.43	CISPR Avg	162	125	Vertical
2388.533	31.73	54.00	-22.27	CISPR Avg	109	168	Horizontal
2484.207	32.74	54.00	-21.26	CISPR Avg	192	191	Vertical
2484.611	32.92	54.00	-21.08	CISPR Avg	72	232	Horizontal
5139.556	37.49	54.00	-16.51	CISPR Avg	187	225	Horizontal
5146.495	36.04	54.00	-17.96	CISPR Avg	27	109	Vertical
5407.323	56.68	74.00	-17.32	Peak	189	219	Horizontal
5415.308	40.46	54.00	-13.54	CISPR Avg	184	176	Horizontal
5448.915	38.94	54.00	-15.06	CISPR Avg	13	159	Vertical

Table 6 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

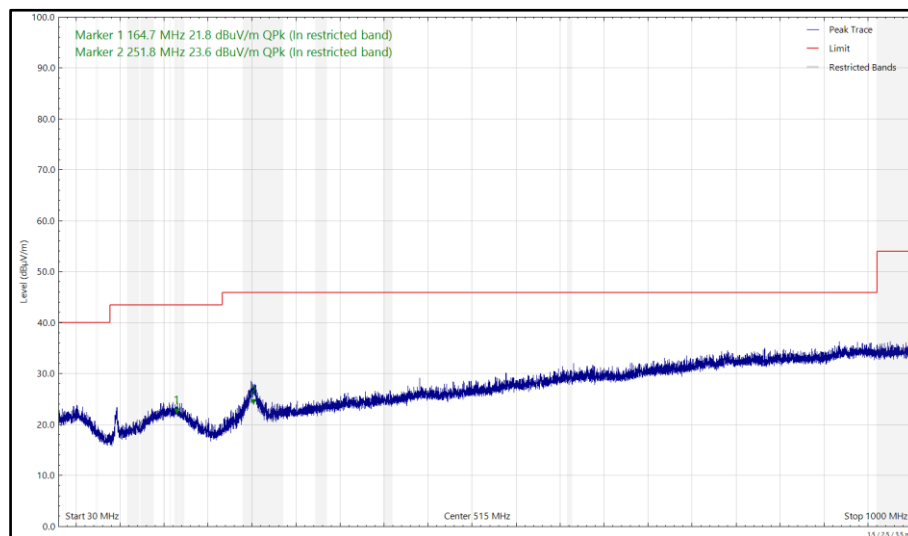


Figure 2 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

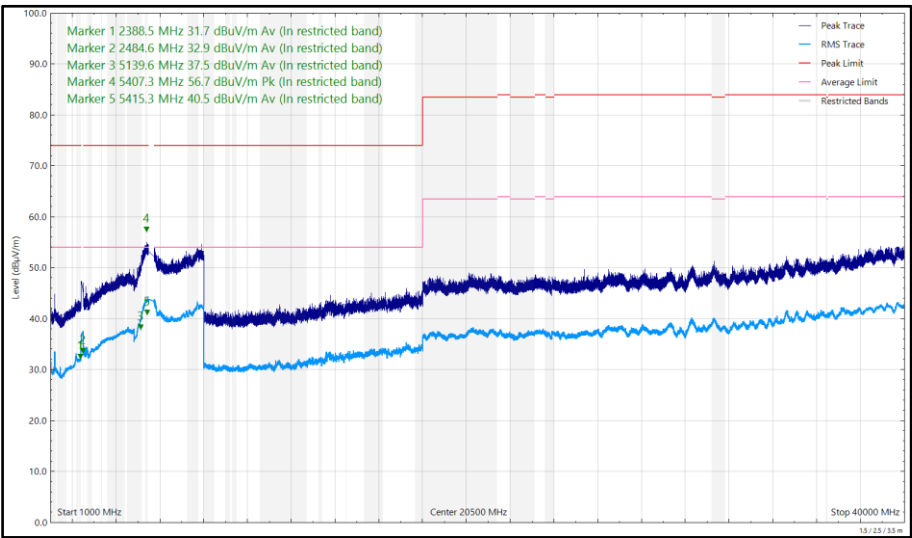


Figure 3 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

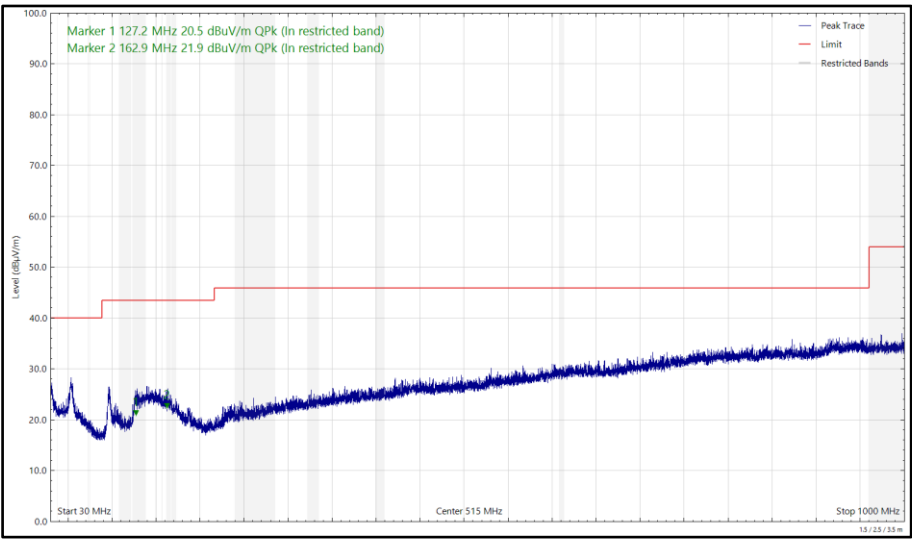


Figure 4 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

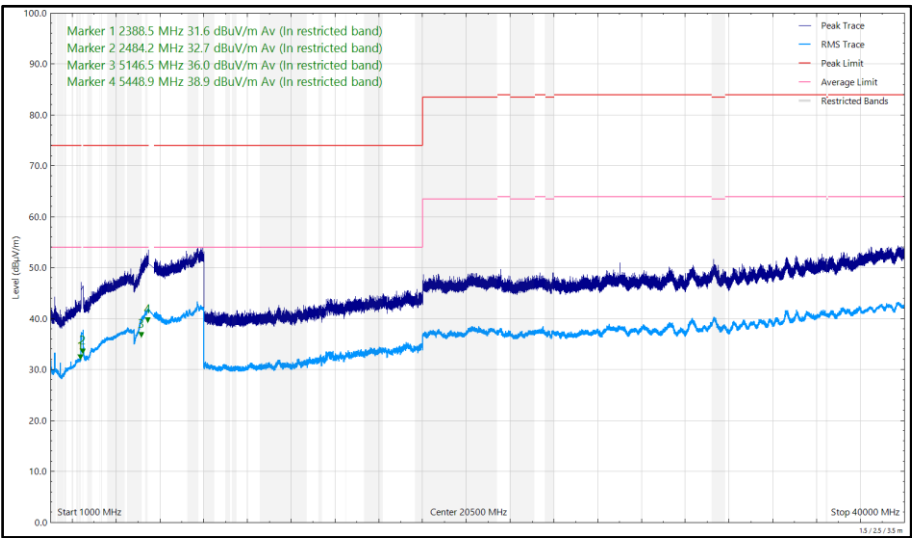


Figure 5 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 7

6 GHz WLAN and 2.4 GHz Bluetooth

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.705	20.51	40.00	-19.49	Q-Peak	266	117	Horizontal
38.229	20.58	40.00	-19.42	Q-Peak	103	304	Vertical
135.166	23.48	43.50	-20.02	Q-Peak	336	100	Vertical
162.942	21.85	43.50	-21.65	Q-Peak	8	390	Vertical
164.019	21.73	43.50	-21.77	Q-Peak	163	373	Horizontal
254.563	22.18	46.00	-23.82	Q-Peak	206	169	Horizontal
2386.463	32.35	54.00	-21.65	CISPR Avg	116	110	Horizontal
2389.952	31.63	54.00	-22.37	CISPR Avg	176	181	Vertical
2483.572	32.98	54.00	-21.02	CISPR Avg	189	193	Horizontal
2484.251	32.08	54.00	-21.92	CISPR Avg	180	166	Vertical
5409.783	36.17	54.00	-17.83	CISPR Avg	196	152	Horizontal
5454.764	34.67	54.00	-19.33	CISPR Avg	35	111	Vertical
7251.414	38.40	54.00	-15.60	CISPR Avg	237	318	Horizontal
7327.728	37.17	54.00	-16.83	CISPR Avg	351	112	Vertical

Table 8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

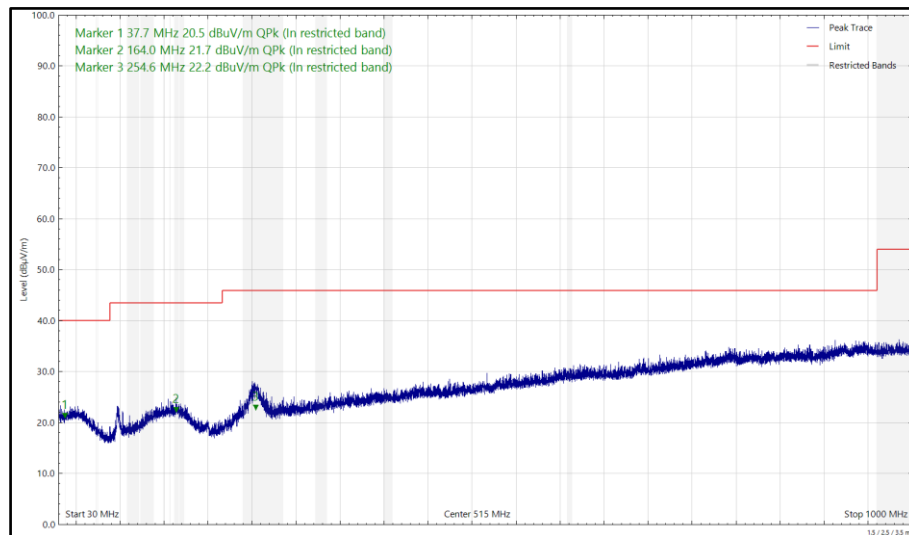


Figure 6 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

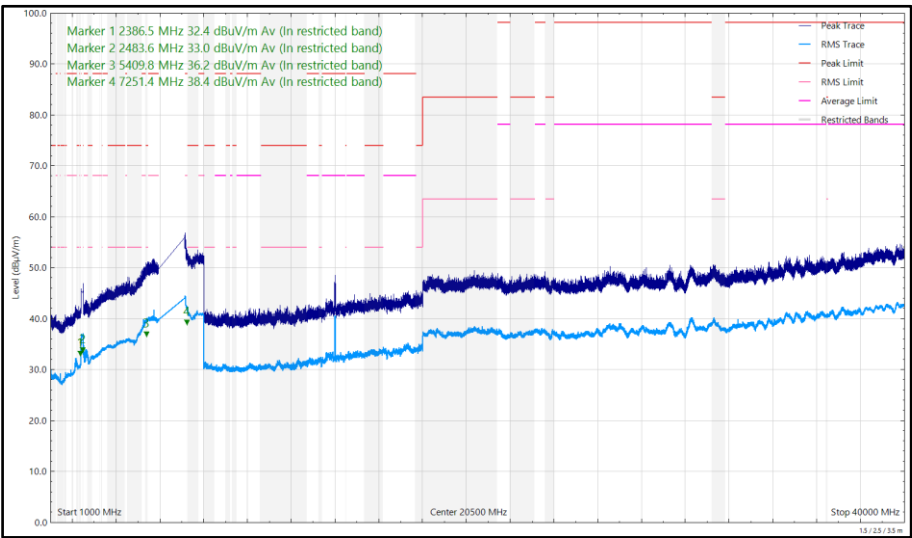


Figure 7 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

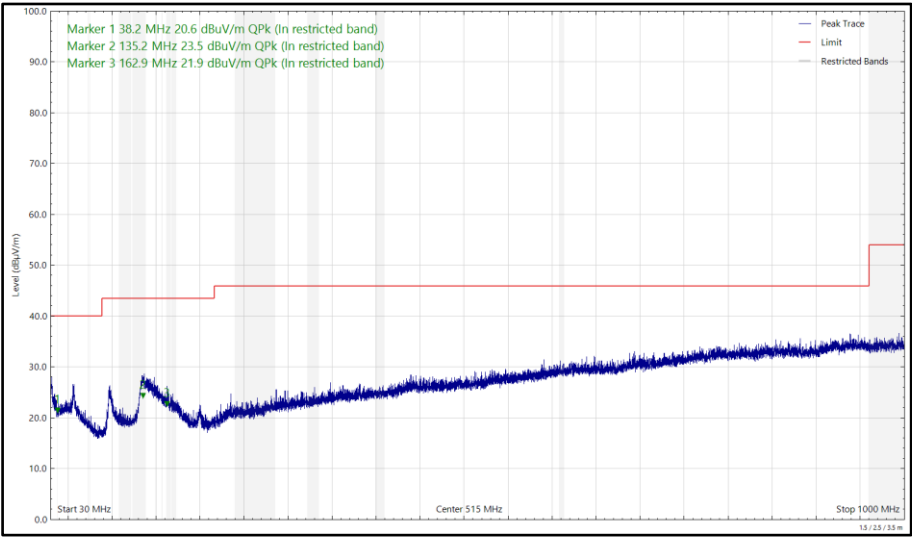


Figure 8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

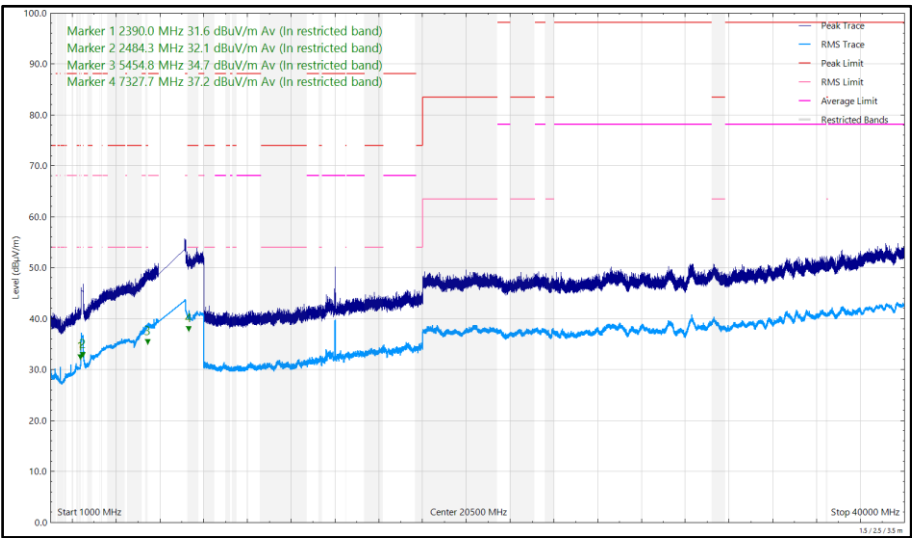


Figure 9 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-248 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
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 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz)

Table 9

5 GHz WLAN and Thread

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.585	20.46	40.00	-19.54	Q-Peak	288	371	Vertical
37.989	20.50	40.00	-19.50	Q-Peak	252	378	Horizontal
128.824	20.27	43.50	-23.23	Q-Peak	15	235	Vertical
165.708	21.70	43.50	-21.80	Q-Peak	360	351	Horizontal
169.355	21.52	43.50	-21.98	Q-Peak	163	199	Vertical
256.153	21.59	46.00	-24.41	Q-Peak	168	135	Horizontal
2389.719	35.94	54.00	-18.06	RMS	195	172	Vertical
2389.816	37.02	54.00	-16.98	RMS	118	147	Horizontal
2483.911	34.94	54.00	-19.06	RMS	242	110	Horizontal
2485.310	36.31	54.00	-17.69	RMS	197	189	Vertical
5139.691	38.90	54.00	-15.10	RMS	22	233	Vertical
5142.388	41.06	54.00	-12.94	RMS	185	281	Horizontal
5360.692	54.24	74.00	-19.76	Peak	190	189	Horizontal
5453.724	41.86	54.00	-12.14	RMS	31	176	Vertical
5457.011	43.48	54.00	-10.52	RMS	193	139	Horizontal

Table 10 - 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.

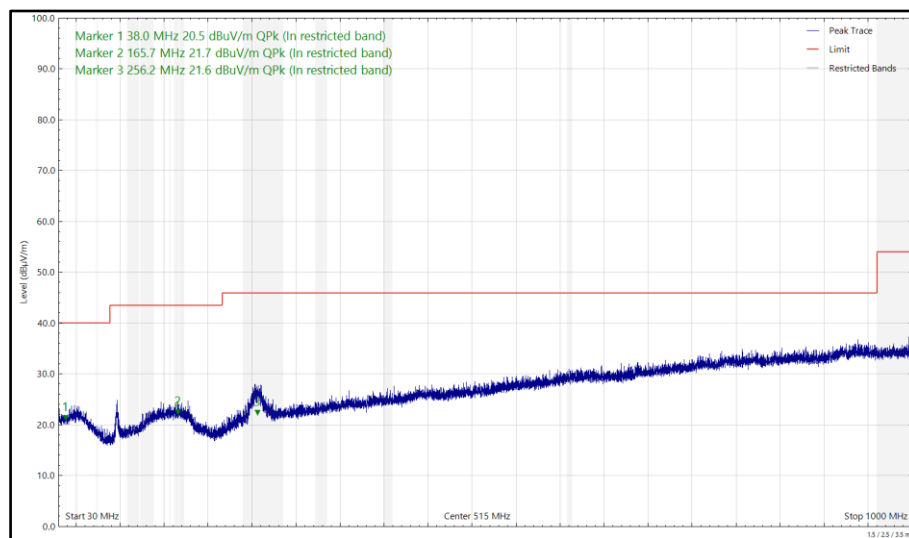


Figure 10 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

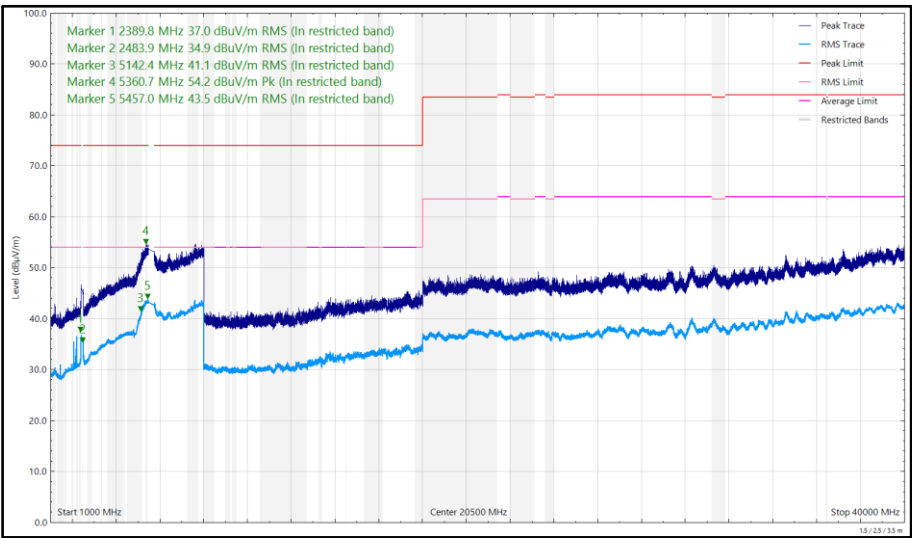


Figure 11 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

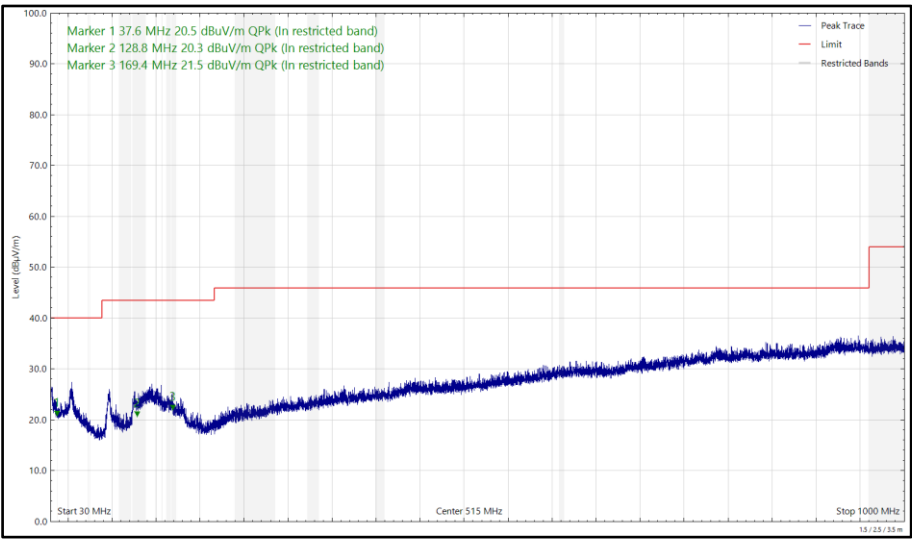


Figure 12 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

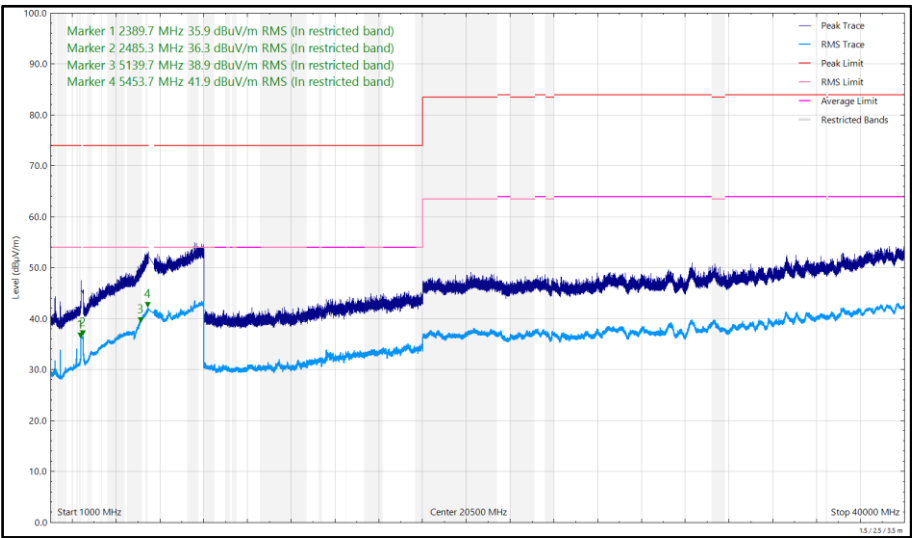


Figure 13 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.920	20.47	40.00	-19.53	Q-Peak	174	360	Vertical
38.247	20.50	40.00	-19.50	Q-Peak	51	312	Horizontal
134.524	20.35	43.50	-23.15	Q-Peak	331	392	Vertical
164.721	21.84	43.50	-21.66	Q-Peak	24	112	Vertical
172.749	21.36	43.50	-22.14	Q-Peak	119	322	Horizontal
257.796	22.58	46.00	-23.42	Q-Peak	178	100	Horizontal
1440.161	33.19	54.00	-20.81	RMS	294	273	Vertical
2389.514	36.02	54.00	-17.98	RMS	74	218	Horizontal
2485.349	35.62	54.00	-18.38	RMS	290	271	Horizontal
5127.654	38.72	54.00	-15.28	RMS	23	230	Vertical
5131.233	40.31	54.00	-13.69	RMS	17	176	Horizontal
5450.613	41.41	54.00	-12.59	RMS	346	104	Vertical
5454.122	41.21	54.00	-12.79	RMS	25	106	Horizontal

Table 11 - 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.

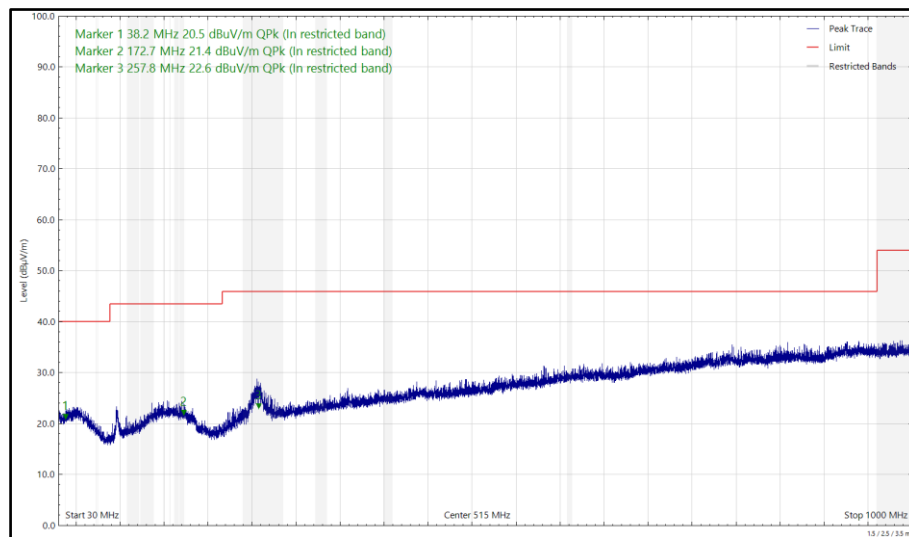


Figure 14 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

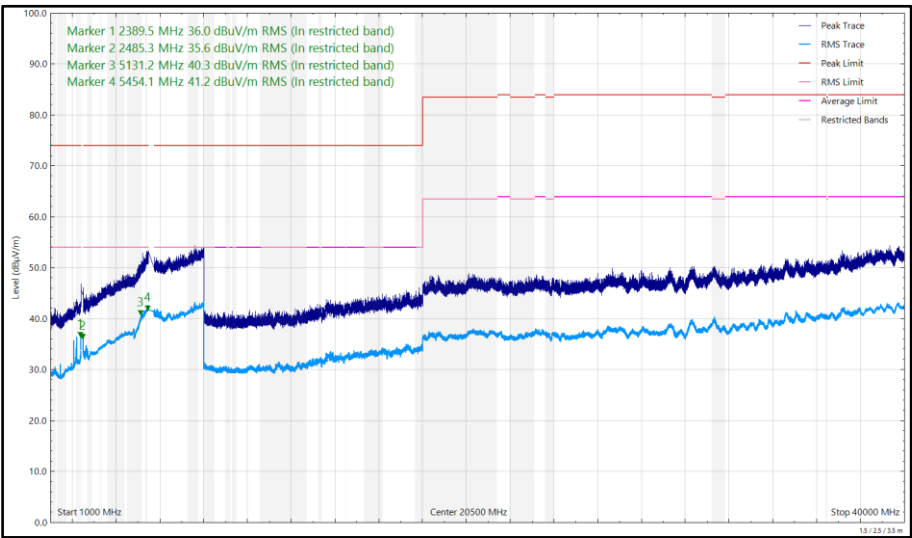


Figure 15 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

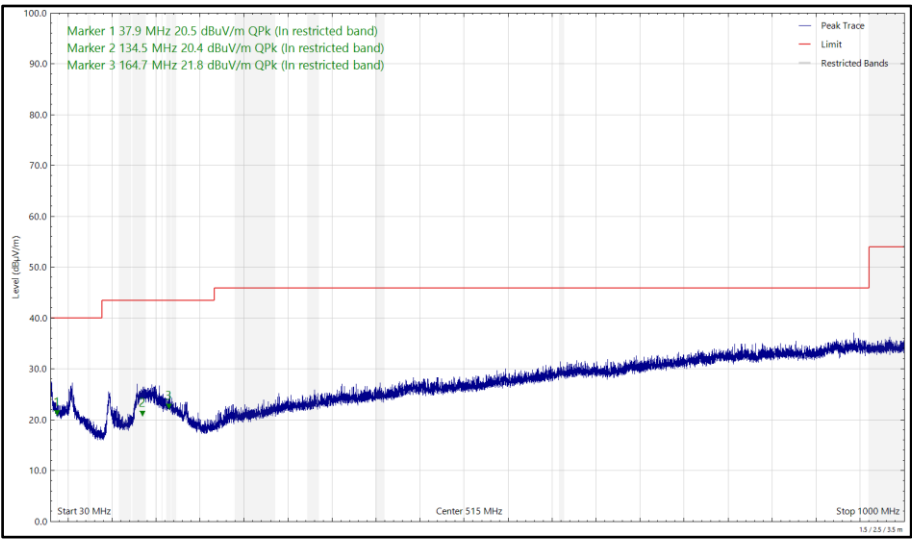


Figure 16 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

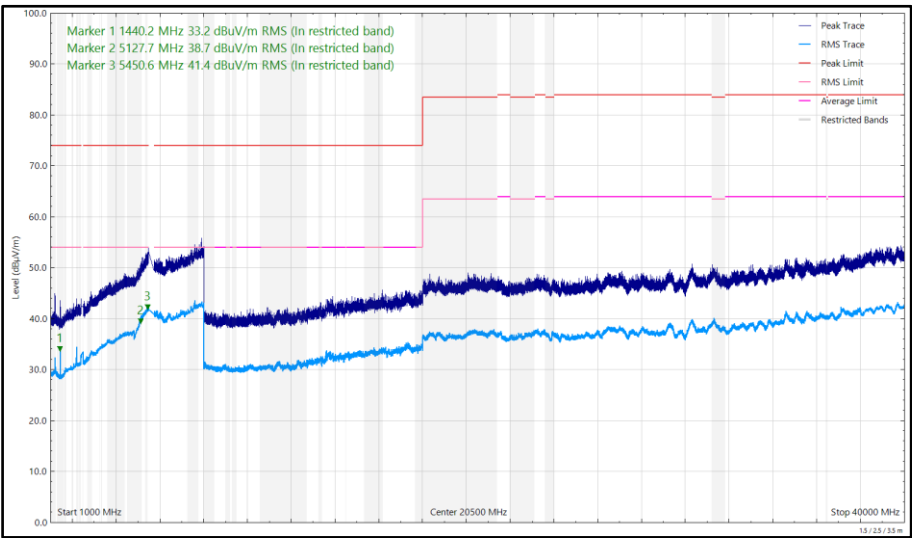


Figure 17 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical

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 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 12

6 GHz WLAN and Thread

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.610	20.54	40.00	-19.46	Q-Peak	349	212	Vertical
73.011	18.11	40.00	-21.89	Q-Peak	175	370	Horizontal
137.840	22.10	43.50	-21.40	Q-Peak	81	126	Vertical
170.976	21.08	43.50	-22.42	Q-Peak	9	248	Horizontal
2389.890	36.13	54.00	-17.87	RMS	165	166	Vertical
2389.948	35.53	54.00	-18.47	RMS	248	263	Horizontal
2485.454	36.88	54.00	-17.12	RMS	120	129	Horizontal
2485.596	36.76	54.00	-17.24	RMS	165	159	Vertical
5428.095	39.80	54.00	-14.20	RMS	189	198	Horizontal
5434.572	37.02	54.00	-16.98	RMS	330	198	Vertical
7253.066	41.03	54.00	-12.97	RMS	13	124	Vertical
7261.622	41.23	54.00	-12.77	RMS	215	297	Horizontal

Table 13 - 6995_2440 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 6995_2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

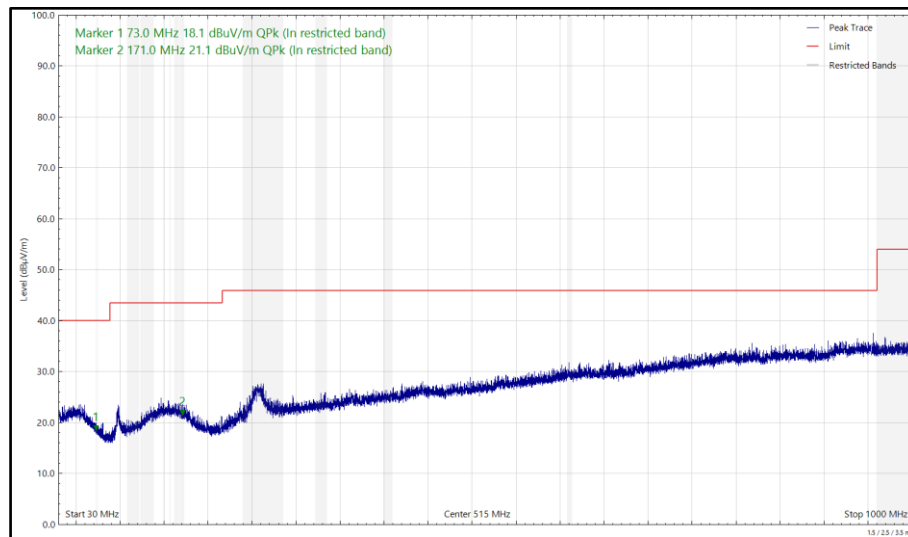


Figure 18 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

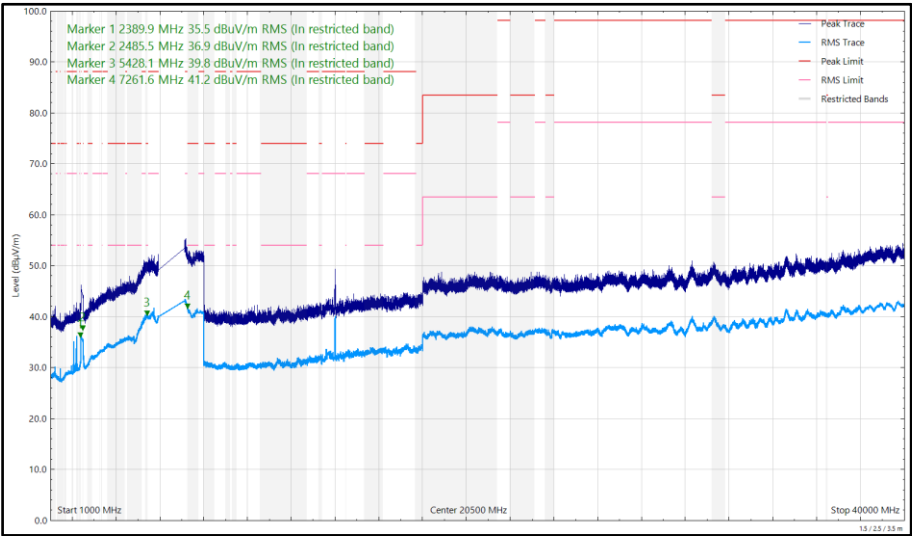


Figure 19 - 6995 (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

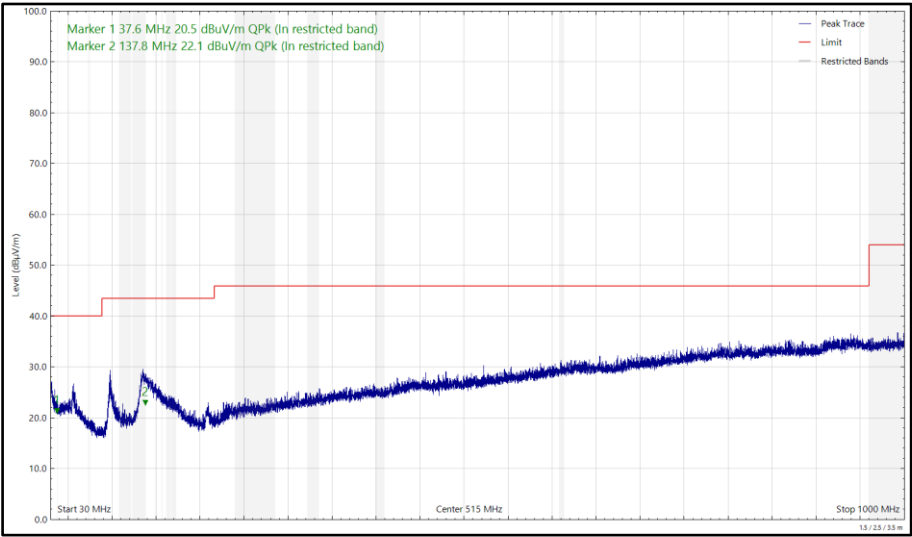


Figure 20 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

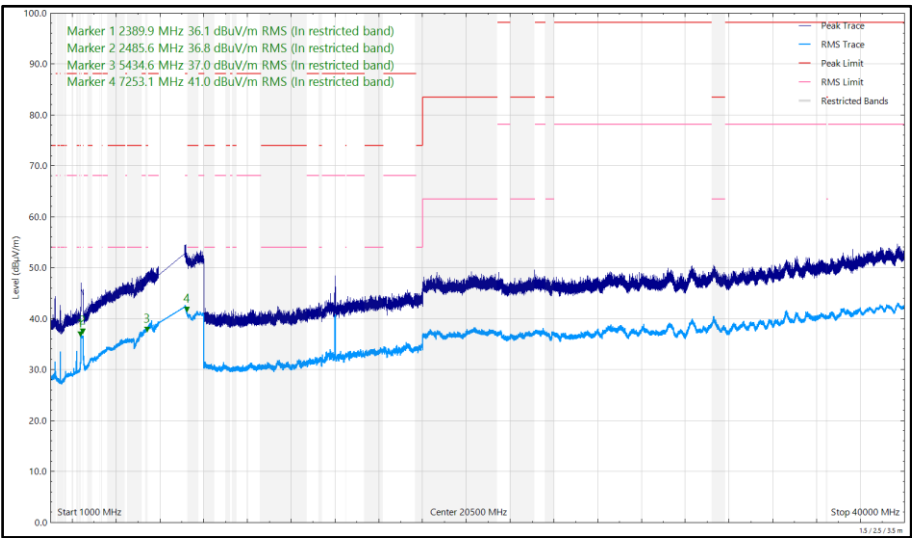


Figure 21 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.726	20.50	40.00	-19.50	Q-Peak	304	370	Horizontal
37.896	20.38	40.00	-19.62	Q-Peak	350	342	Vertical
132.100	21.88	43.50	-21.62	Q-Peak	355	119	Vertical
149.933	21.50	43.50	-22.00	Q-Peak	20	349	Horizontal
261.979	20.36	46.00	-25.64	Q-Peak	233	132	Horizontal
2389.985	36.31	54.00	-17.69	RMS	73	266	Horizontal
2485.219	36.08	54.00	-17.92	RMS	287	253	Horizontal
5389.310	37.82	54.00	-16.18	RMS	346	113	Vertical
5426.483	40.07	54.00	-13.93	RMS	190	168	Horizontal
7255.415	40.64	54.00	-13.36	RMS	18	100	Vertical
7256.877	39.64	54.00	-14.36	RMS	249	372	Horizontal

Table 14 - 6995 MHz (CH209), 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.

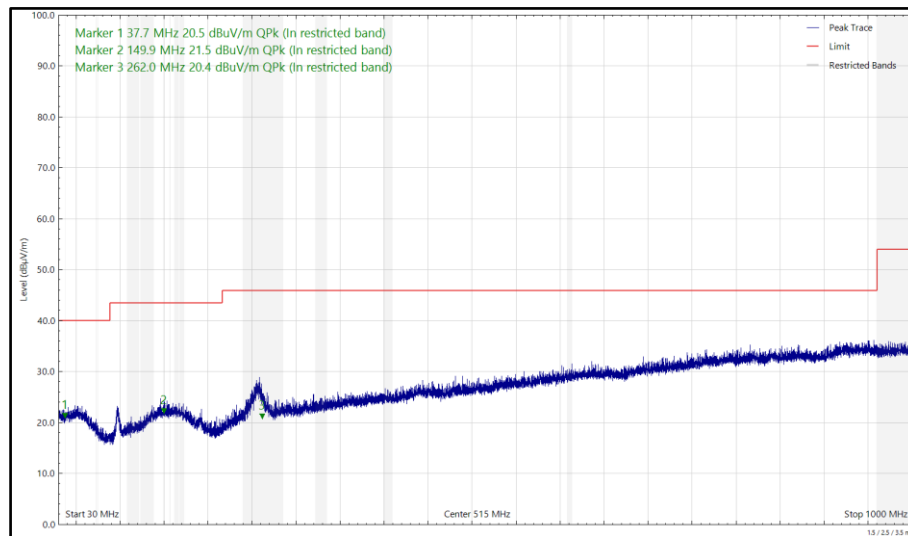


Figure 22 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

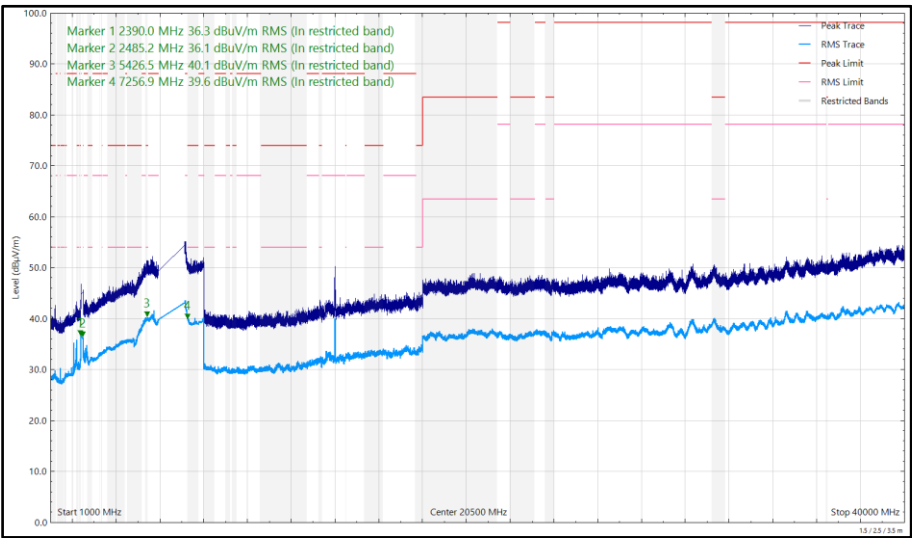


Figure 23 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

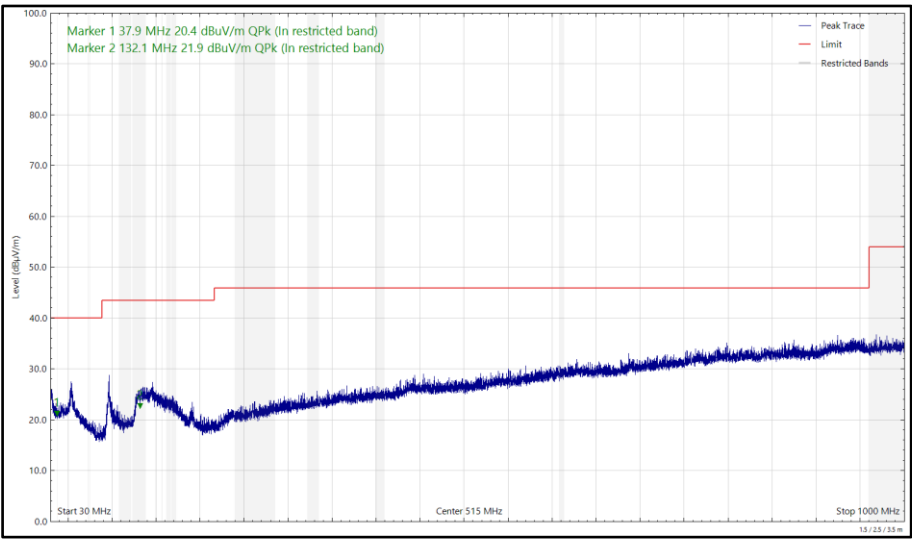


Figure 24 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

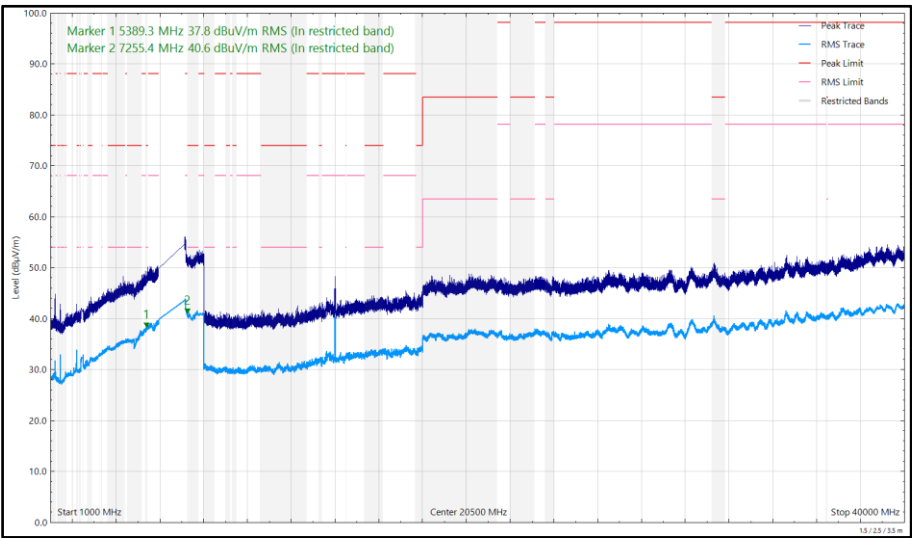


Figure 25 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical

FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-248 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-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 15

2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz Narrowband

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.518	20.44	40.00	-19.56	Q-Peak	331	352	Vertical
37.605	20.45	40.00	-19.55	Q-Peak	109	388	Horizontal
136.555	21.60	43.50	-21.90	Q-Peak	342	109	Vertical
163.440	21.79	43.50	-21.71	Q-Peak	206	390	Horizontal
252.308	22.76	46.00	-23.24	Q-Peak	189	100	Horizontal
1440.139	32.84	54.00	-21.16	CISPR Avg	155	176	Vertical
2389.367	27.48	54.00	-26.52	CISPR Avg	186	127	Vertical
2389.827	56.80	74.00	-17.20	Peak	175	163	Vertical
2389.930	27.31	54.00	-26.69	CISPR Avg	75	136	Horizontal
2484.298	27.74	54.00	-26.26	CISPR Avg	70	267	Horizontal

Table 16 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH2450), DH5, iPA, Core 2 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

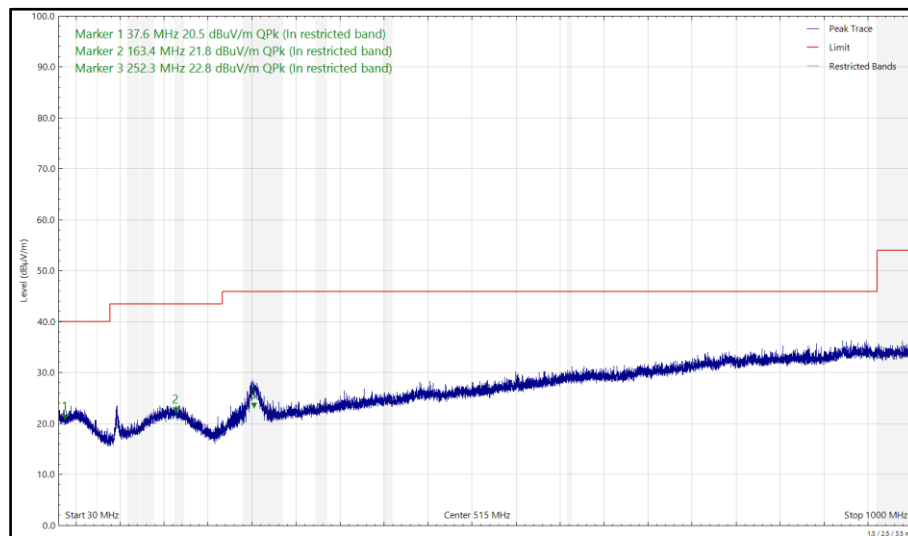


Figure 26 - 2437MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH2450), DH5, iPA, Core 2 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

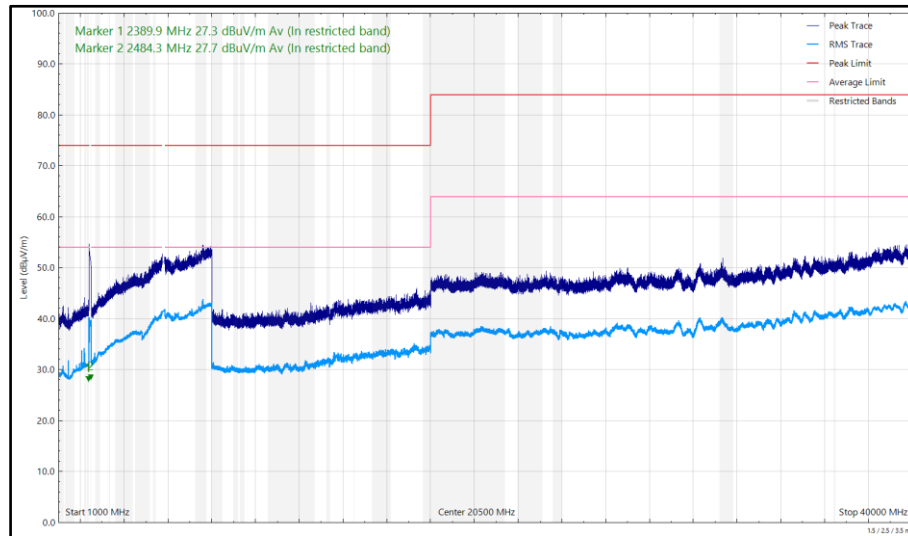


Figure 27 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH2450), DH5, iPA, Core 2 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

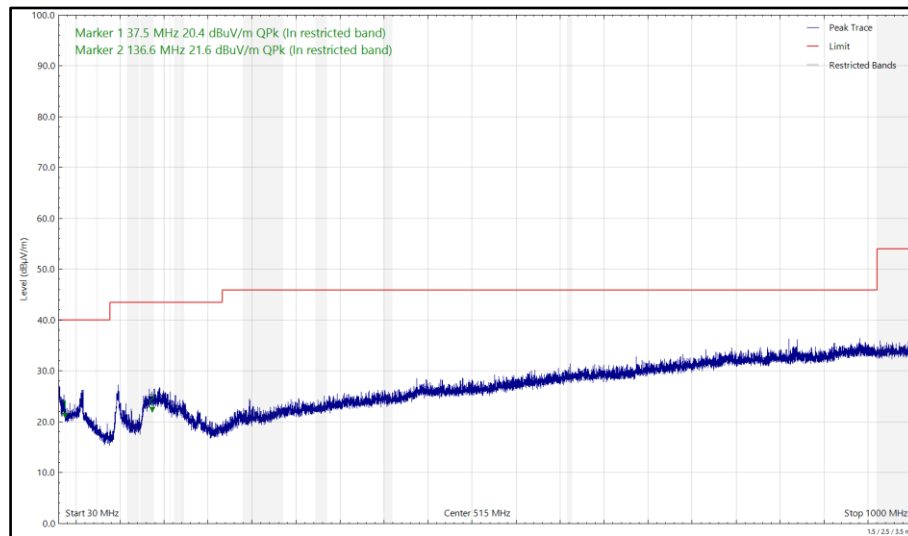


Figure 28 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH2450), DH5, iPA, Core 2 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

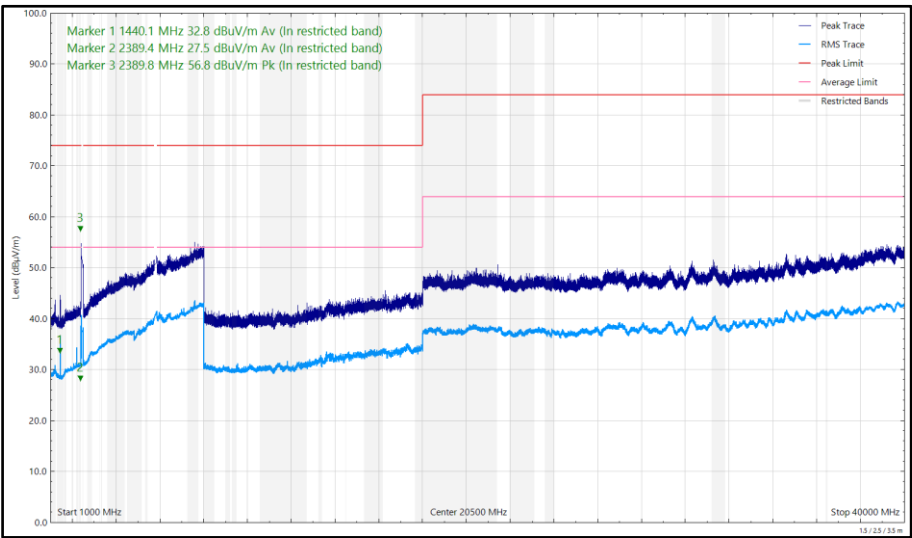


Figure 29 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH2450), DH5, iPA, Core 2 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 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 17



2.4 GHz WLAN and Thread and 5 GHz Narrowband

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2389.318	34.24	54.00	-19.76	RMS	170	141	Vertical
2483.846	35.99	54.00	-18.01	RMS	177	190	Vertical
5441.754	38.46	54.00	-15.54	RMS	10	156	Vertical
5455.394	39.78	54.00	-14.22	RMS	181	183	Horizontal

Table 18 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, iPA, Core 2 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

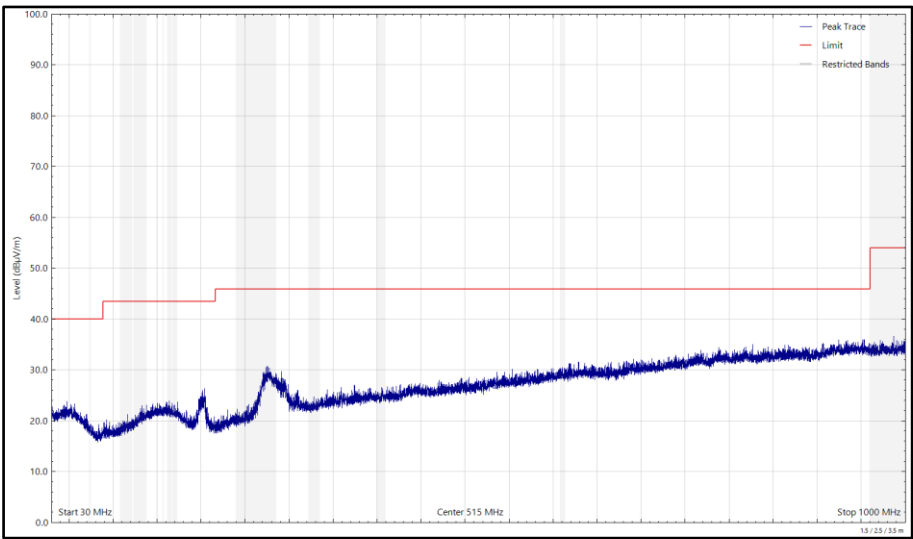


Figure 30 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, iPA, Core 2 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

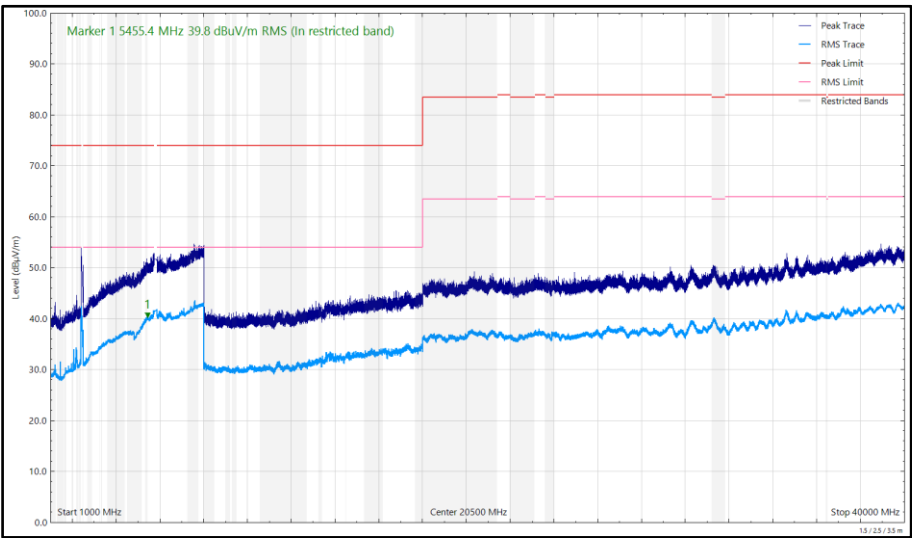


Figure 31 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, iPA, Core 2 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

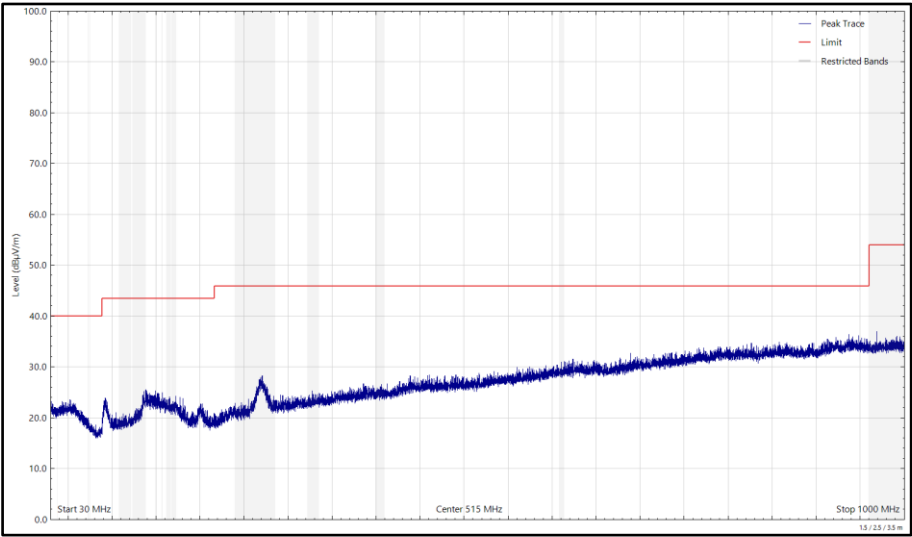


Figure 32 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, iPA, Core 2 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

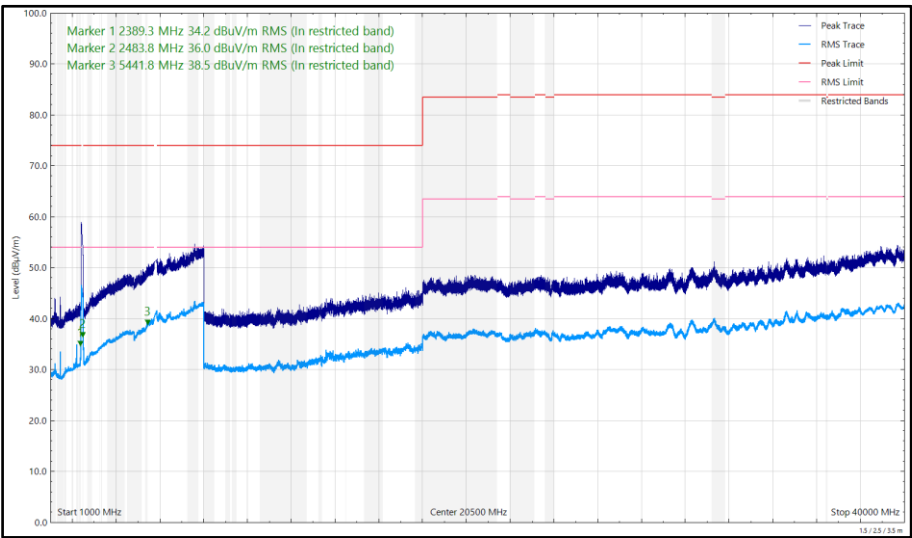


Figure 33 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, iPA, Core 2 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-248 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-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 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz)

Table 19

2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz WLAN

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
35.733	20.32	40.00	-19.68	Q-Peak	8	270	Vertical
38.033	20.32	40.00	-19.68	Q-Peak	153	400	Horizontal
156.702	23.13	43.50	-20.37	Q-Peak	37	103	Vertical
156.808	22.26	43.50	-21.24	Q-Peak	184	101	Horizontal
240.459	20.83	46.00	-25.17	Q-Peak	10	247	Vertical
2386.173	39.16	54.00	-14.84	CISPR Avg	192	363	Vertical
2388.287	57.81	74.00	-16.19	Peak	118	115	Horizontal
2389.669	41.87	54.00	-12.13	CISPR Avg	118	113	Horizontal
2399.376	65.53	74.00	-8.47	Peak	150	142	Vertical
2486.097	41.03	54.00	-12.97	CISPR Avg	165	163	Vertical
2487.033	56.59	74.00	-17.41	Peak	118	164	Horizontal
2488.115	40.32	54.00	-13.68	CISPR Avg	119	161	Horizontal
2488.670	57.72	74.00	-16.28	Peak	190	116	Vertical
5445.453	54.01	74.00	-19.99	Peak	27	186	Vertical
5452.452	43.18	54.00	-10.82	RMS	29	184	Vertical
5458.557	55.06	74.00	-18.94	Peak	208	108	Horizontal
5458.716	44.45	54.00	-9.55	RMS	200	174	Horizontal

Table 20 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

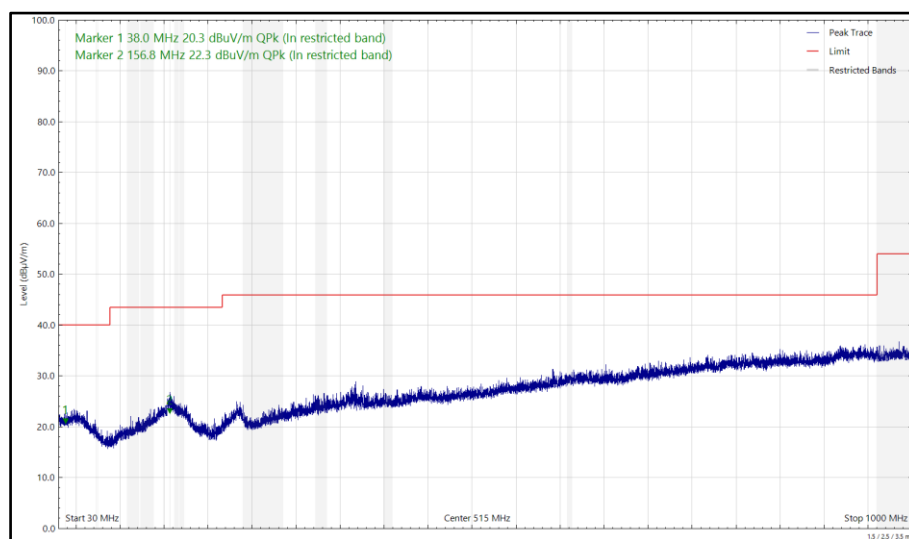


Figure 34 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

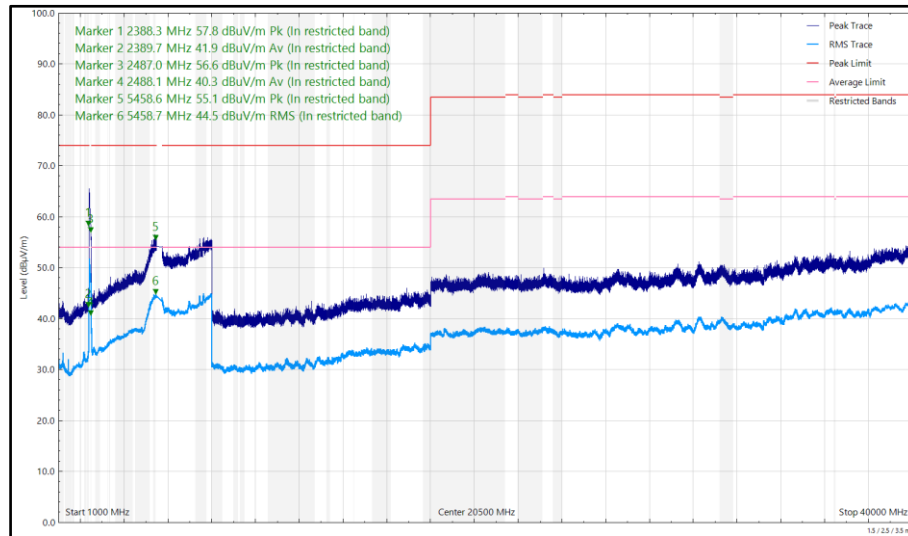


Figure 35 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

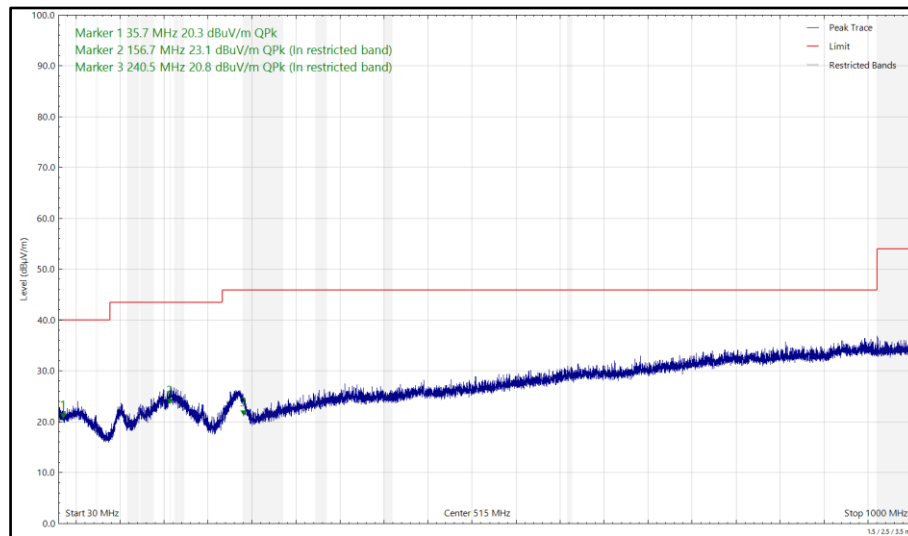


Figure 36 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

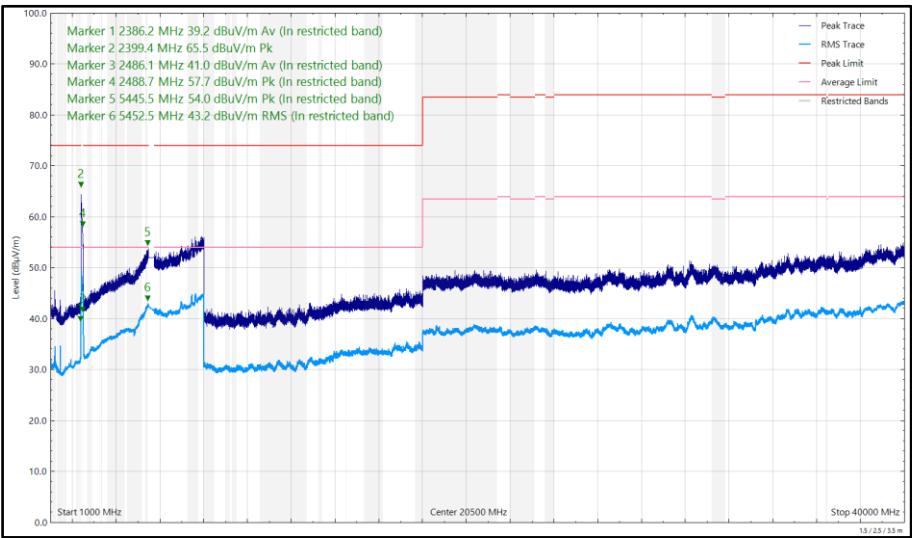


Figure 37 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical

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 21

2.4 GHz WLAN and 2.4 GHz Bluetooth and 6 GHz WLAN

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.767	20.34	40.00	-19.66	Q-Peak	294	283	Vertical
37.841	20.34	40.00	-19.66	Q-Peak	148	398	Horizontal
74.279	17.96	40.00	-22.04	Q-Peak	350	349	Vertical
133.501	20.73	43.50	-22.77	Q-Peak	342	106	Vertical
163.690	22.25	43.50	-21.25	Q-Peak	122	100	Horizontal
167.018	21.66	43.50	-21.84	Q-Peak	317	110	Vertical
284.813	21.30	46.00	-24.70	Q-Peak	338	100	Horizontal
2385.098	57.06	74.00	-16.94	Peak	189	125	Vertical
2385.098	39.35	54.00	-14.65	CISPR Avg	189	125	Vertical
2388.018	57.32	74.00	-16.68	Peak	118	101	Horizontal
2388.018	41.86	54.00	-12.14	CISPR Avg	118	101	Horizontal
2483.546	42.23	54.00	-11.77	CISPR Avg	176	190	Vertical
2484.942	58.05	74.00	-15.95	Peak	76	278	Horizontal
2487.983	40.62	54.00	-13.38	CISPR Avg	117	154	Horizontal
2492.799	57.25	74.00	-16.75	Peak	164	190	Vertical

Table 22 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

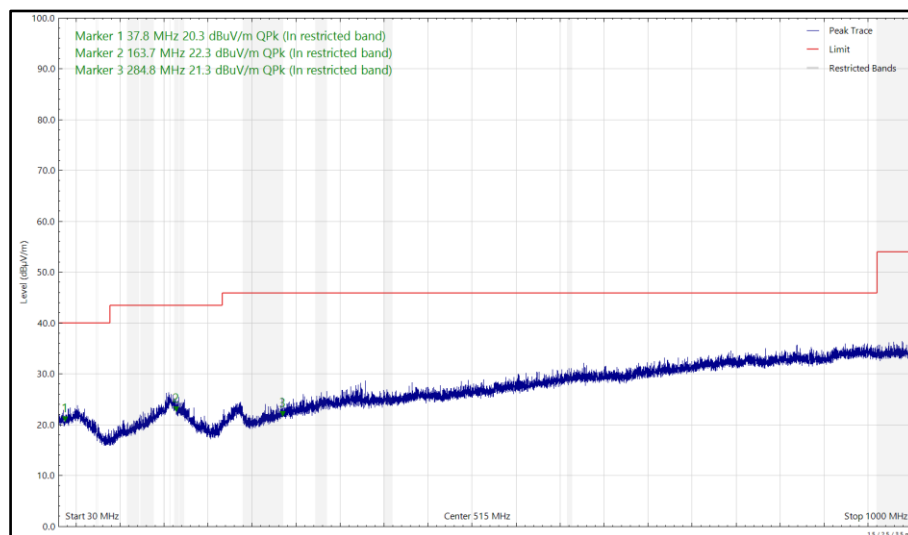


Figure 38 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

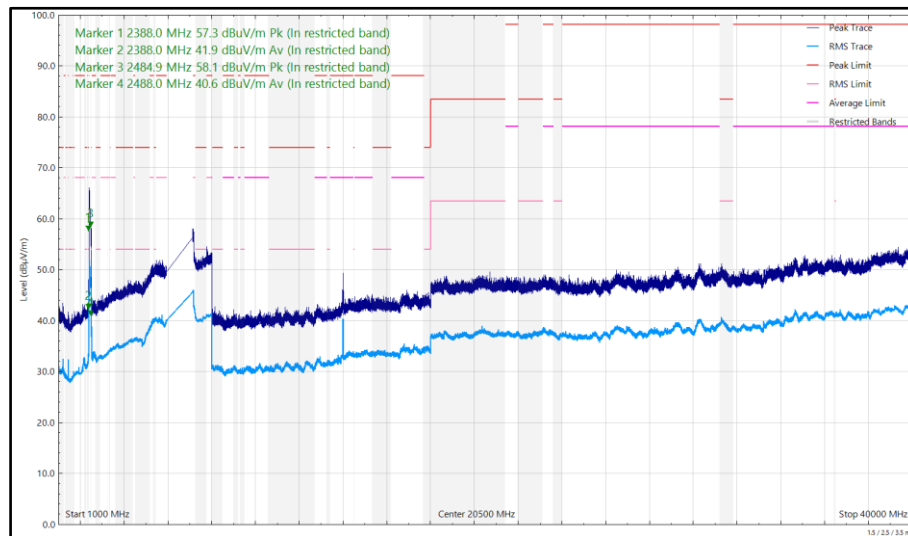


Figure 39 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

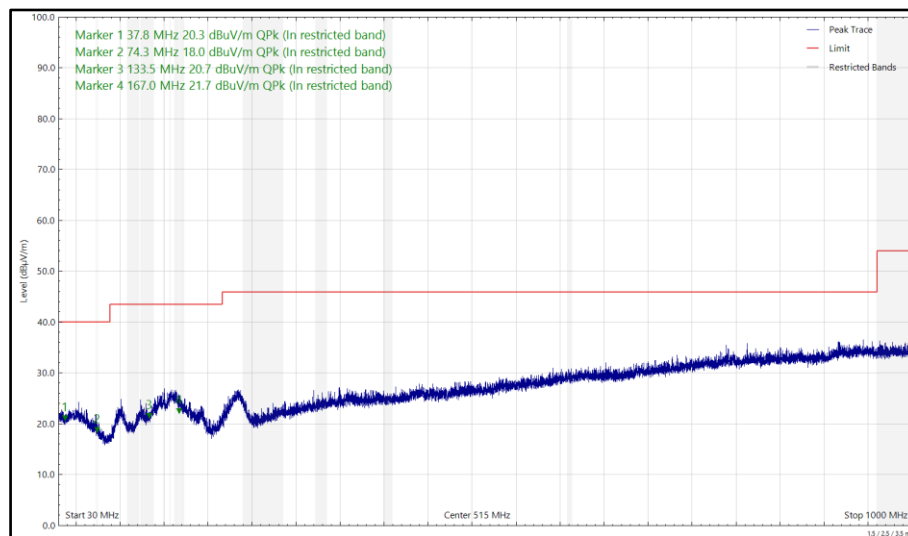


Figure 40 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

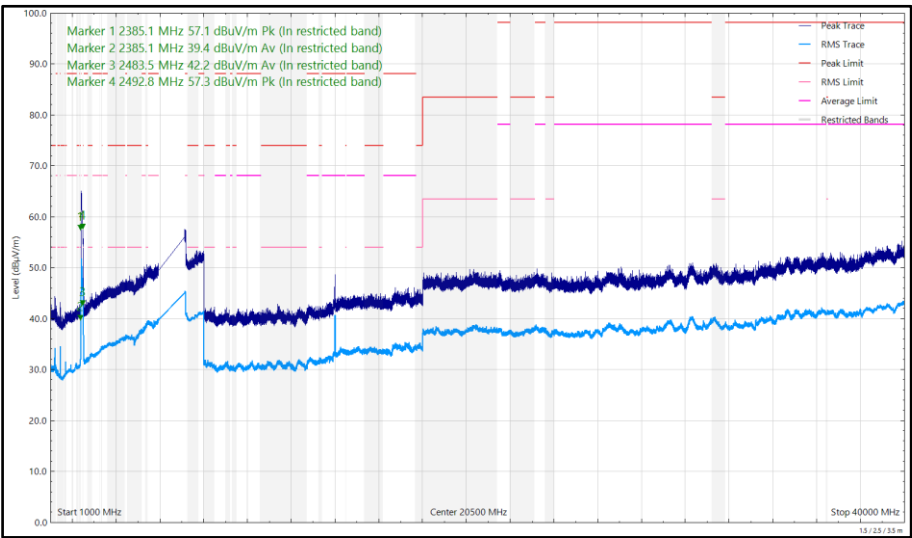


Figure 41 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical

FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-248 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
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 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz)

Table 23

2.4 GHz WLAN and Thread and 5 GHz WLAN

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.205	20.29	40.00	-19.71	Q-Peak	30	280	Horizontal
37.905	20.30	40.00	-19.70	Q-Peak	153	357	Vertical
162.250	21.73	43.50	-21.77	Q-Peak	15	199	Vertical
163.054	21.73	43.50	-21.77	Q-Peak	124	296	Horizontal
240.513	19.69	46.00	-26.31	Q-Peak	22	325	Vertical
2387.487	55.88	74.00	-18.12	Peak	114	157	Horizontal
2388.917	43.67	54.00	-10.33	RMS	114	157	Horizontal
2389.060	56.90	74.00	-17.10	Peak	181	204	Vertical
2389.712	44.76	54.00	-9.24	RMS	181	204	Vertical
2483.632	44.41	54.00	-9.59	RMS	118	144	Horizontal
2484.307	56.30	74.00	-17.70	Peak	177	122	Vertical
2484.470	43.26	54.00	-10.74	RMS	177	122	Vertical
2486.824	57.11	74.00	-16.89	Peak	118	144	Horizontal
5415.975	55.72	74.00	-18.28	Peak	193	253	Horizontal
5419.901	43.97	54.00	-10.03	RMS	193	253	Horizontal
5453.815	42.73	54.00	-11.27	RMS	22	182	Vertical
5456.205	54.51	74.00	-19.49	Peak	22	182	Vertical

Table 24 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

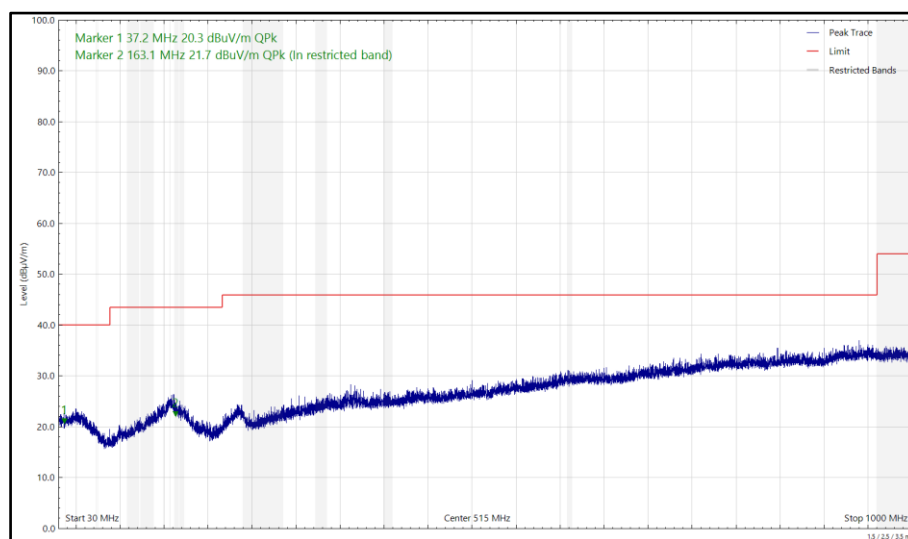


Figure 42 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

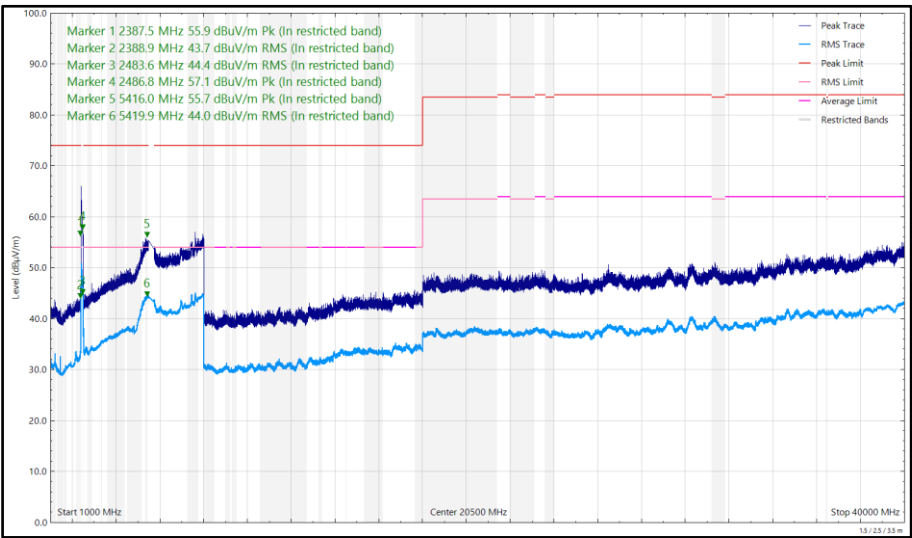


Figure 43 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

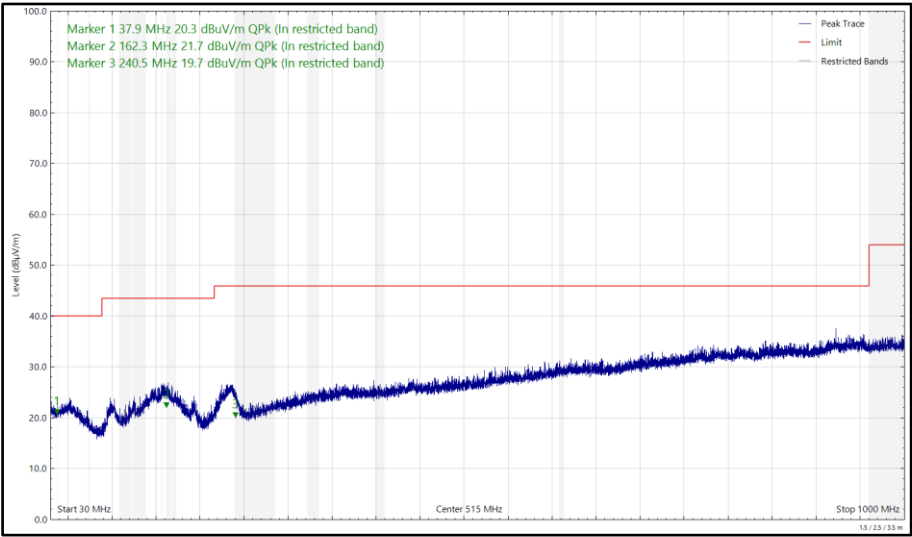


Figure 44 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

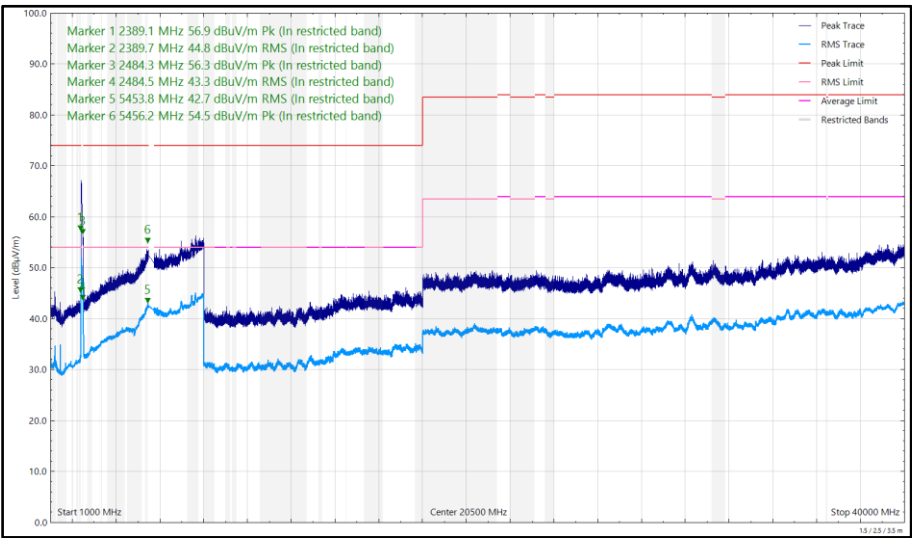


Figure 45 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 1 GHz to 40 GHz, Vertical

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 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 25



2.4 GHz WLAN and Thread and 6 GHz WLAN

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
35.074	20.39	40.00	-19.61	Q-Peak	357	366	Vertical
37.804	20.31	40.00	-19.69	Q-Peak	289	117	Horizontal
134.855	20.56	43.50	-22.94	Q-Peak	181	353	Horizontal
164.057	21.66	43.50	-21.84	Q-Peak	350	313	Horizontal
166.624	21.48	43.50	-22.02	Q-Peak	45	400	Vertical
1440.164	29.88	54.00	-24.12	RMS	109	217	Vertical
2389.227	57.59	74.00	-16.41	Peak	74	262	Horizontal
2389.875	57.25	74.00	-16.75	Peak	185	132	Vertical
2389.906	45.57	54.00	-8.43	RMS	74	262	Horizontal
2389.955	44.47	54.00	-9.53	RMS	185	132	Vertical
2483.547	57.83	74.00	-16.17	Peak	176	168	Vertical
2483.575	45.03	54.00	-8.97	RMS	176	168	Vertical
2484.827	44.64	54.00	-9.36	RMS	74	289	Horizontal
2485.585	58.43	74.00	-15.57	Peak	74	289	Horizontal
5450.500	39.33	54.00	-14.67	RMS	23	196	Vertical
5456.063	51.10	74.00	-22.90	Peak	23	196	Vertical
5461.456	50.90	88.20	-37.30	Peak	202	137	Horizontal
5463.342	39.90	68.20	-28.30	RMS	202	137	Horizontal

Table 26 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

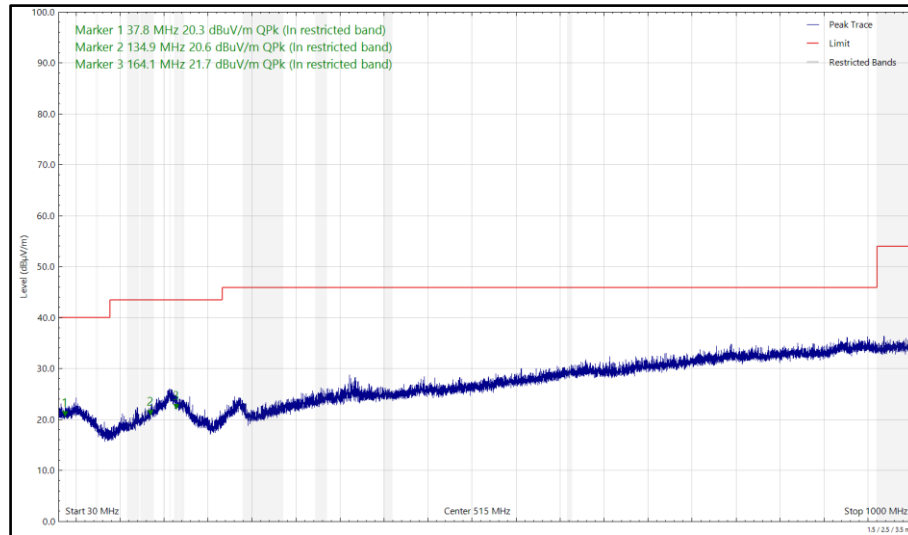


Figure 46 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

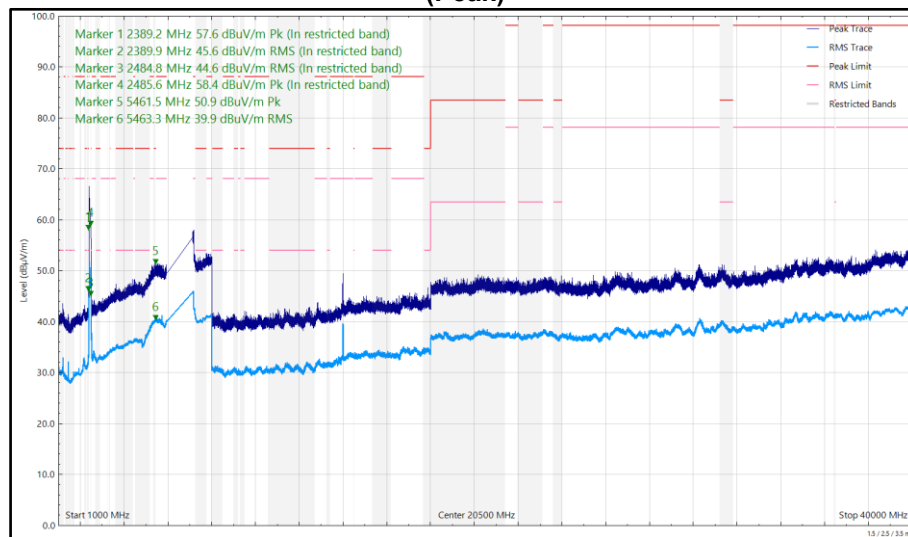


Figure 47 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

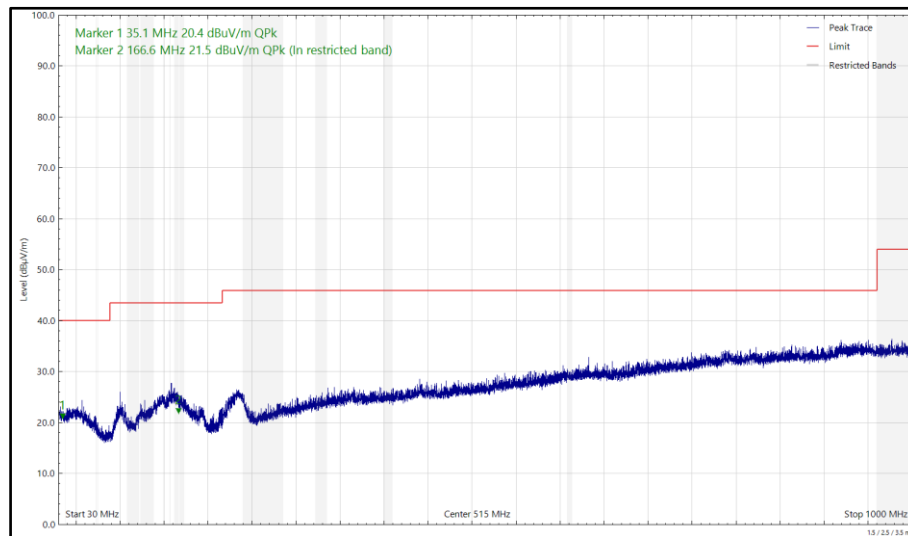


Figure 48 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

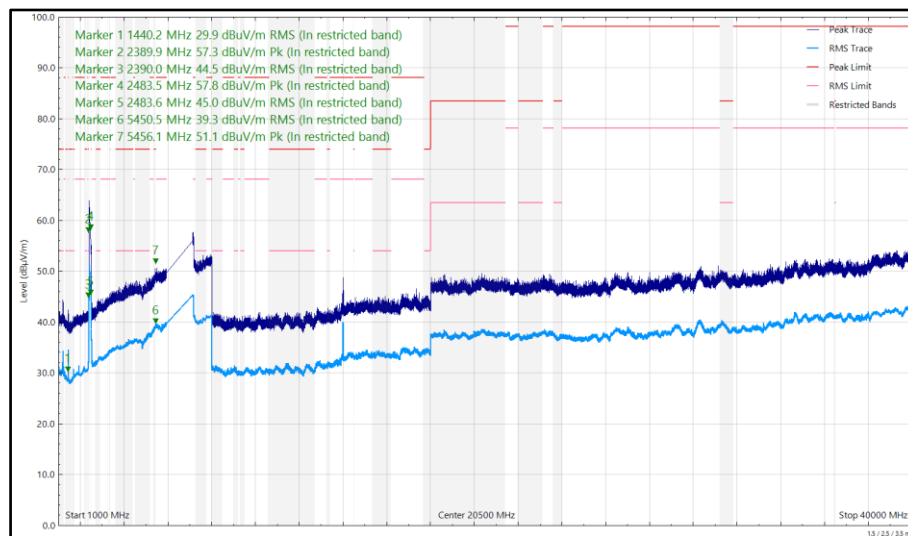


Figure 49 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 1 GHz to 40 GHz, Vertical



FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-248 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
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 27



2.4 GHz Bluetooth and Narrowband

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
137.052	20.69	43.50	-22.81	Q-Peak	71	389	Vertical
164.471	21.72	43.50	-21.78	Q-Peak	174	400	Vertical
165.077	21.63	43.50	-21.87	Q-Peak	271	373	Horizontal
251.961	21.82	46.00	-24.18	Q-Peak	162	109	Horizontal
1440.161	34.49	54.00	-19.51	RMS	163	182	Vertical
2386.778	34.93	54.00	-19.07	RMS	141	313	Vertical
2387.228	36.11	54.00	-17.89	RMS	114	102	Horizontal
2483.557	35.13	54.00	-18.87	RMS	329	295	Horizontal
2486.491	37.34	54.00	-16.66	RMS	181	166	Vertical
5398.242	39.66	54.00	-14.34	RMS	194	183	Horizontal
5445.899	38.46	54.00	-15.54	RMS	27	149	Vertical

Table 28 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

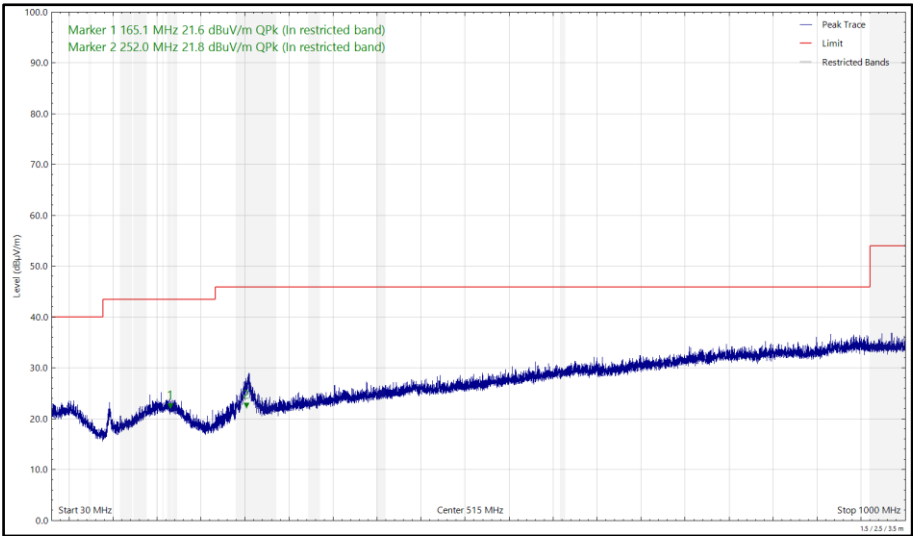


Figure 50 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

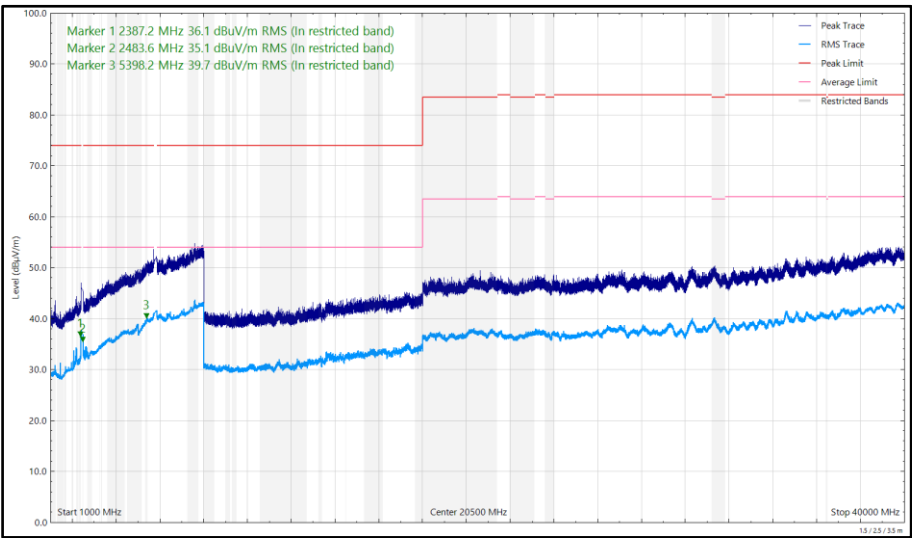


Figure 51 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

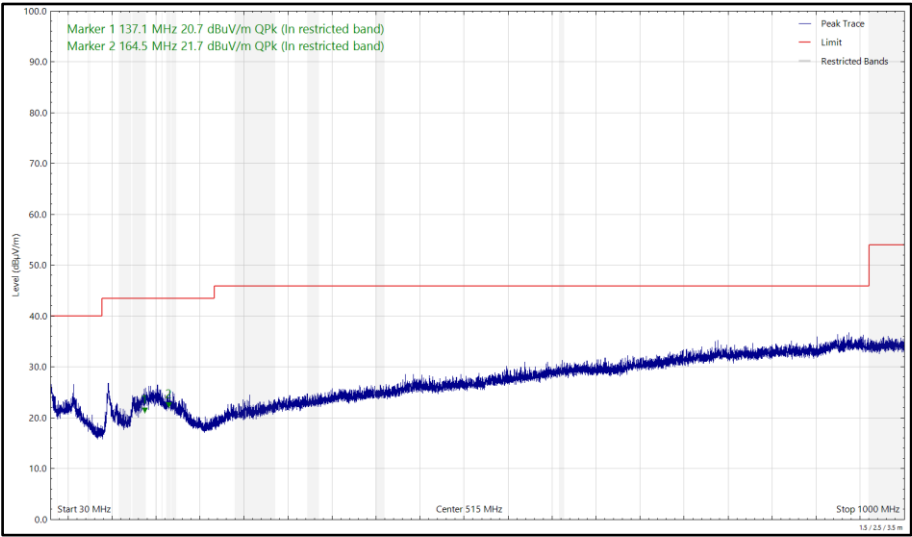


Figure 52 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

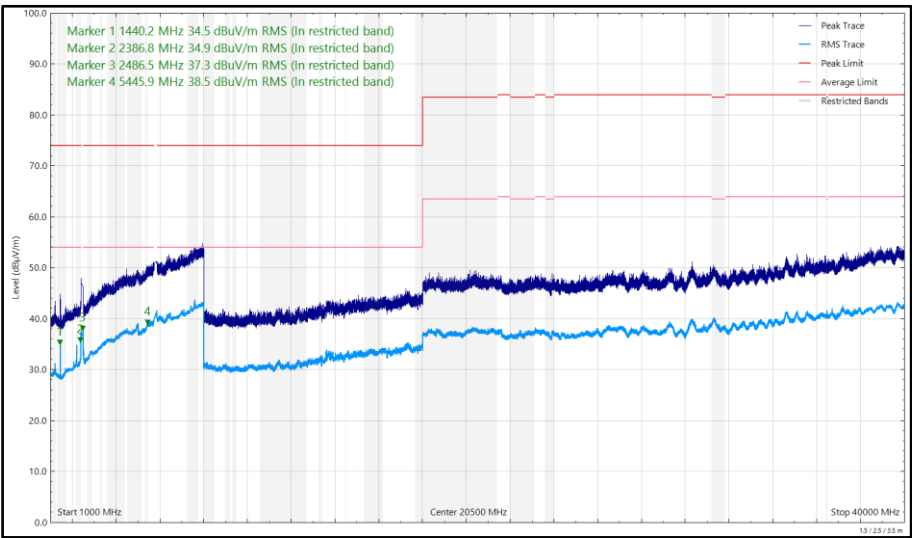


Figure 53 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1 and 5788 MHz (CH5788), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

FCC 47 CFR Part 15, ISED RSS-247 & 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 5.5	-20 dBc / -30 dBc
Part 15.407 (b) / RSS-247 Clause 6.2	-27 dBm e.i.r.p

Table 29

Thread and Narrowband

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.840	20.58	40.00	-19.42	Q-Peak	283	341	Vertical
38.163	20.51	40.00	-19.49	Q-Peak	218	362	Horizontal
137.825	21.01	43.50	-22.49	Q-Peak	194	261	Vertical
165.504	21.67	43.50	-21.83	Q-Peak	227	358	Horizontal
166.889	21.61	43.50	-21.89	Q-Peak	271	100	Vertical
250.727	23.10	46.00	-22.90	Q-Peak	179	100	Horizontal
2389.775	36.37	54.00	-17.63	RMS	182	110	Vertical
2389.953	37.05	54.00	-16.95	RMS	114	132	Horizontal
2484.844	36.31	54.00	-17.69	RMS	184	114	Vertical
2485.341	36.69	54.00	-17.31	RMS	123	128	Horizontal

Table 30 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

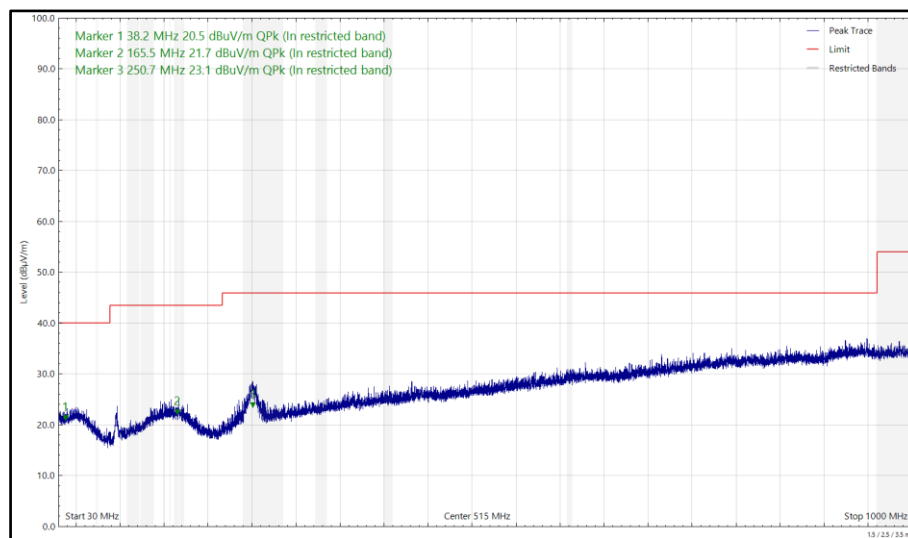


Figure 54 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

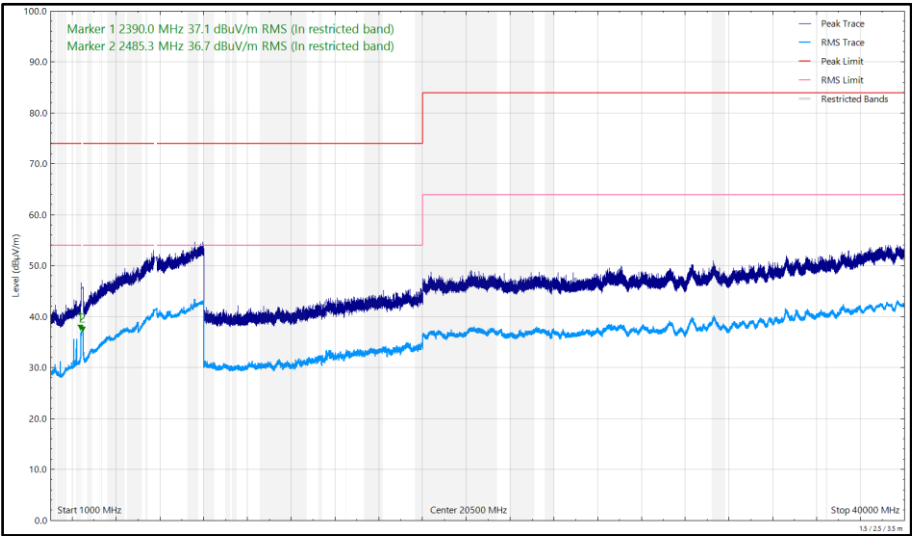


Figure 55 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

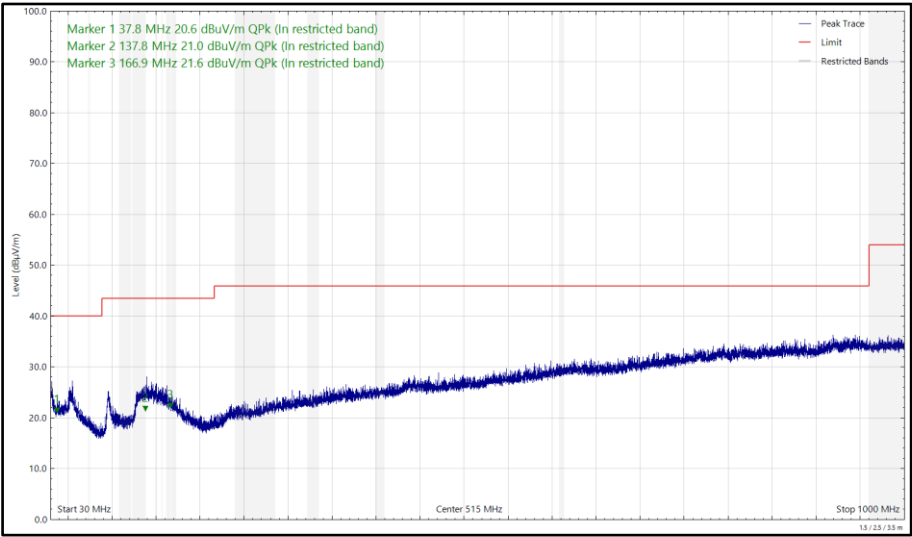


Figure 56 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

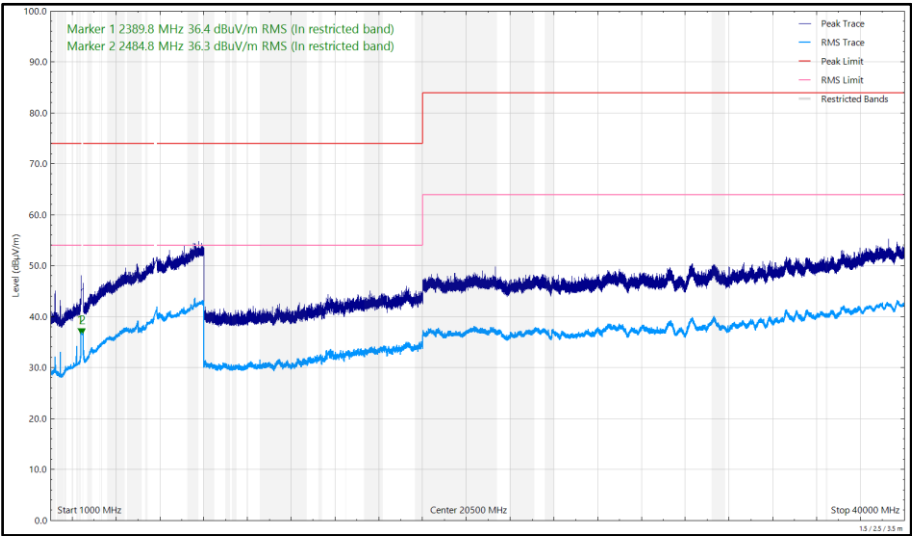


Figure 57 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
111.430	18.63	43.50	-24.87	Q-Peak	250	200	Vertical
135.180	21.60	43.50	-21.90	Q-Peak	19	109	Vertical
162.836	21.85	43.50	-21.65	Q-Peak	145	343	Horizontal
169.807	21.39	43.50	-22.11	Q-Peak	34	389	Vertical
253.953	22.06	46.00	-23.94	Q-Peak	176	110	Horizontal
2389.948	36.78	54.00	-17.22	RMS	66	215	Horizontal
2483.695	36.89	54.00	-17.11	RMS	283	179	Horizontal

Table 31 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

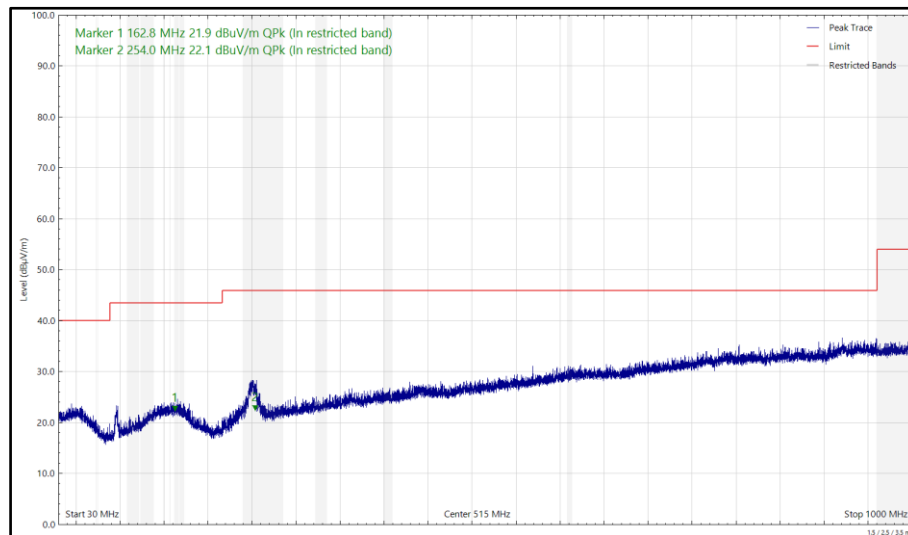


Figure 58 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

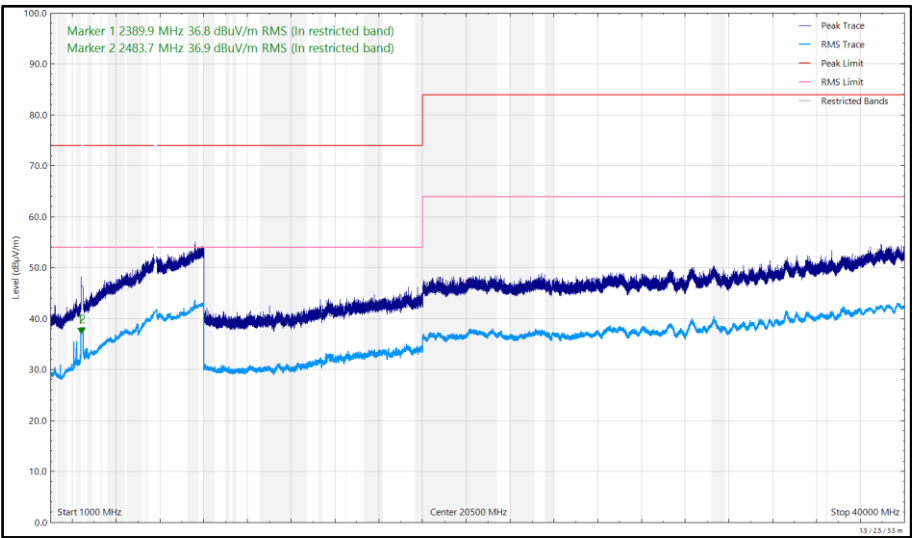


Figure 59 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

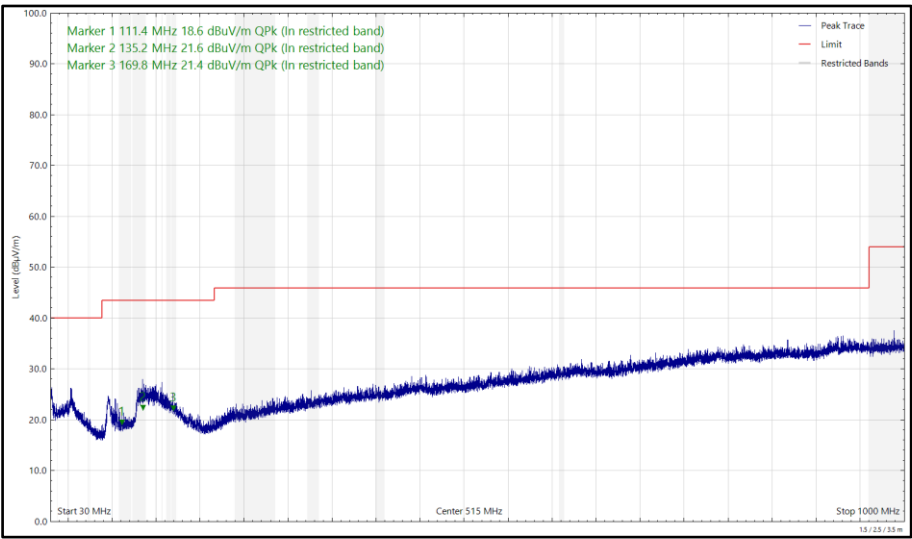


Figure 60 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

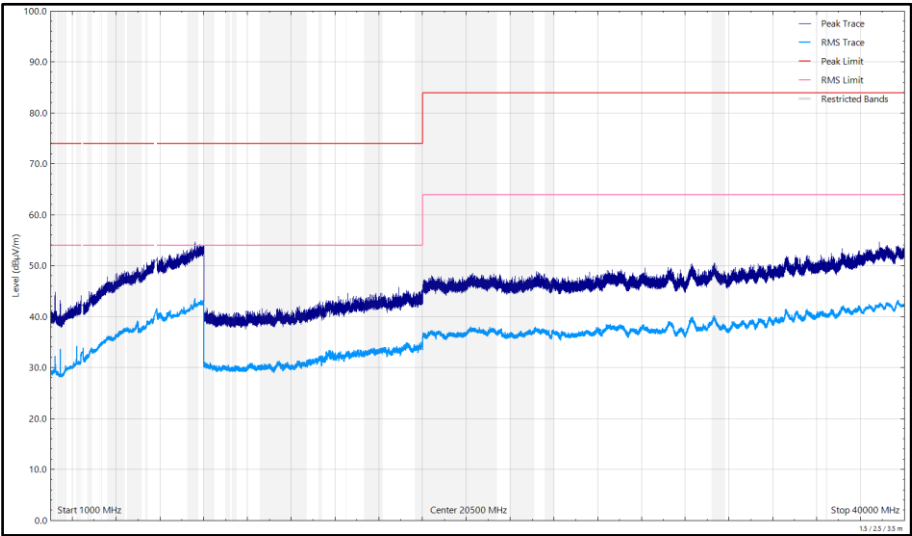


Figure 61 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 5.5	-20 dBc / -30 dBc
Part 15.407 (b) / RSS-247 Clause 6.2	-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)

Table 32



2.1.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14, RF Chamber 15, RF Chamber 16 and RF Chamber 17.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	TU
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	29-Oct-2026
EMI Test Receiver	Rohde & Schwarz	ESW44	5912	12	04-Sep-2026
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5940	12	18-May-2026
TRILOG Super Broadband Test Antenna	Schwarzbeck	VULB 9168	5942	24	03-Jan-2027
1500W (300V 12A) AC Power Supply	iTech	IT7324	5955	-	TU
1500W (300V 12A) AC Power Supply	iTech	IT7324	5957	-	TU
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 14	5958	36	23-Apr-2028
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5959	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5960	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5961	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5962	-	TU
3m Semi-Anechoic Chamber, Chamber16	Albatross Projects	RF Chamber 16	5972	36	07-May-2028
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5973	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5974	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5975	-	TU
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	06-Jun-2026
Digital Multimeter	Fluke	115	6145	12	06-Jun-2026
Digital Multimeter	Fluke	115	6147	12	05-Jun-2026
Humidity & Temperature meter	R.S Components	1364	6149	12	28-Aug-2026
Double Ridge Active Horn Antenna (18-40 GHz)	Com-Power	AHA-840	6188	24	31-Jul-2026
SAC Switch Unit	TUV SUD	TUV_SSU_001	6191	12	18-Dec-2026
8GHz Highpass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6195	12	23-Apr-2026*
Pre Amp 8 - 18 GHz	Wright Technologies	APS06 0061	6198	12	09-Jun-2026
Attenuator (4 dB)	Pasternack	PE7074-4	6202	24	03-Jan-2027
Cable (SMA to SMA 20cm)	TUV SUD	MH-FH 8-18	6214	12	23-Apr-2026*
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	6323	12	27-Apr-2026*
1m Coaxial Cable Assy	Junkosha	MWX221-01000AMSAMS/A	6354	12	15-Apr-2026*



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
3m Semi-Anechoic Chamber	Albatross Projects	Chamber 18	6597	36	08-May-2028
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6741	12	27-Apr-2026*
8m Cable	Junkosha	MWX221-08000AMSAMS/B	6748	12	27-Apr-2026*
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	6795	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	6796	-	TU
Turntable	Maturo Gmbh	TT1.5SI	6797	-	TU
EMI Test Receiver	Rohde & Schwarz	ESW44	6805	12	24-Jul-2026
AC Programmable Power Supply	iTech	IT7324	6812	-	TU
Broad-Band Horn Antenna 1-10GHz N	Schwarzbeck	BBHA9120B	6825	12	14-Sep-2026
Handheld Hygrometer	Fluke	971	6837	12	16-Sep-2026
Handheld Hygrometer	Fluke	971	6838	12	16-Sep-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6850	12	23-Oct-2026
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6886	12	02-Dec-2026

Table 33

TU - Traceability Unscheduled
O/P Mon - Output Monitored using calibrated equipment
* Equipment used before the expiry date



3 Measurement Uncertainty

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

Test Name	Measurement Uncertainty
Radiated Spurious Emissions (Simultaneous Transmission)	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB

Table 34

Measurement Uncertainty Decision Rule – Accuracy Method

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

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