

Radio Test Report

Manufacturer: Brain Corporation
C2PC for AX210NG Module



In accordance with FCC 47 CFR Part 15.407 and
ISED RSS-247 and ISED RSS-GEN

Prepared for: Brain Corporation
10182 Telesis Ct.
San Diego, California 92121

COMMERCIAL-IN-CONFIDENCE

Document 721015341-04 Issue 03

SIGNATURE

A handwritten signature in black ink, appearing to read 'Omar Castillo'.

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Omar Castillo	Senior EMC / Wireless Test Engineer	Authorized Signatory	August 07 2026

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

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15E, ISED RSS-247 and ISED RSS-GEN Issue 5 (2018) for the tests detailed in section 1.3.



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1 Report Summary

1.1 Report Modification Record

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

Issue	Description of Change	Date of Issue
01	First version	June 10, 2026
02	Host Model and variants added	August 07 2026
03	FCC ID and IC Number added	September 16, 2026

Table 1

1.2 Introduction

Applicant	Brain Corporation
Manufacturer	Brain Corporation
Model Number(s)	AX210NG Module
Manufacturer Declared Variant(s)	Host Model (HMN): B3CM, B3CM-L, B3CM-H, B3CM-H(512gb)
Serial Number(s)	B30-00271-01:1704250600138
Hardware Version(s)	Rev.07
FCC ID	2BTHJ-AX210NG
IC Number	34775-AX210NG
Software Version(s)	Manufacturing OS V0.8.21
Antenna type and Gain	MIMO Antenna. 3.3 dBi (Molex Antenna) & MIMO Antenna 4.9 dBi (2J Antenna)
Antenna Selection	Antenna Selection Justification: The EUT supports two MIMO antenna options: a Molex Multi-hub antenna (3.3 dBi) and a 2J antenna (4.9 dBi). Since both share the same MIMO architecture, radiated testing was performed exclusively utilizing the 2J antenna as it represents the absolute worst-case scenario due to its highest directional gain (4.9 dBi). In accordance with ANSI C63.10, compliance demonstrated with this worst-case configuration inherently covers the lower-gain Molex antenna.
Antenna type and Gain	MIMO Antenna. 3.3 dBi (Molex Antenna) & MIMO Antenna 4.9 dBi (2J Antenna)
Number of Samples Tested	1



Test Specification/Issue/Date	FCC 47 CFR Part 15E, ISED RSS-247 and ISED RSS-GEN Issue 5 (2018)
Test Plan/Issue/Date	Test Plan not provided
Order Number	721015341
Date	24-April-2026
Date of Receipt of EUT	24-April-2026
Start of Test	24-April-2026
Finish of Test	12-May-2026
Name of Engineer(s)	Miguel Angel Rabago Garcia
Related Document(s)	ANSI C63.10 (2020) 150-00153-01 Rev01 B3CM RF ATTESTATION LETTER signed.pdf



1.3 Brief Summary of Results

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

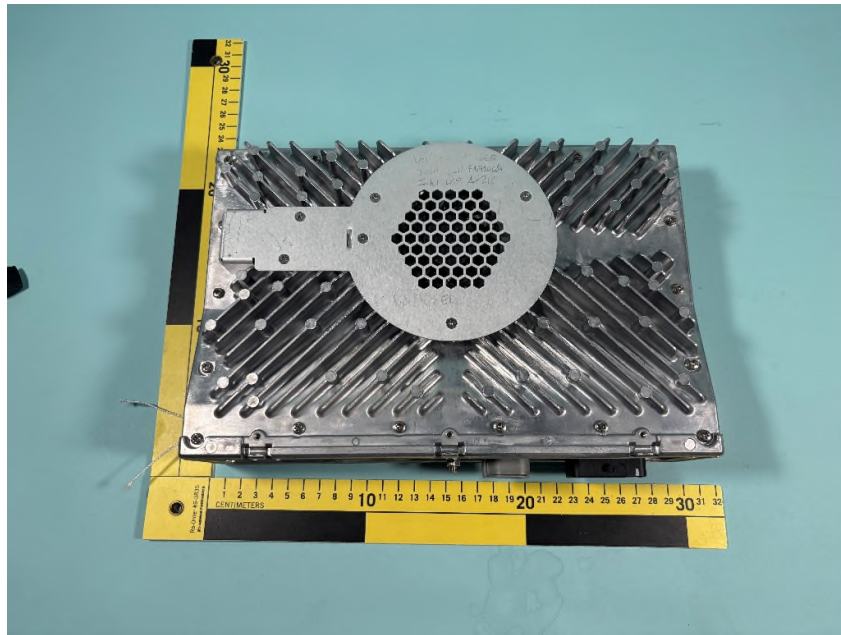
Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: 5GHz WiFi C2PC for AX210NG Module				
2.1	15.207, N/A and 8.8	AC Power Line Conducted Emissions	Complies	-
2.2	15.247 (b) (3) & 5.4 (d)	EIRP (Radiated)	Complies	-
2.3	15.407 (b) and 7	Authorised Band Edges	Complies	-
2.4	15.407 (b), and 7	Spurious Radiated Emissions	Complies	-

Table 2

1.4 Product Information

1.4.1 Technical Description

The Equipment Under Test (EUT) was a Autonomy controller that performs navigational operations, functional safety operations and data telemetry for automated mobile platforms.



Equipment Under Test.



1.5 Deviations from the Standard

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

1.6 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
-	-	-	-

Table 3

1.7 Test Location

TÜV SÜD conducted the following tests at our San Diego Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 5GHz WiFi Transmitting, C2PC for AX210NG Module		
AC Power Line Conducted Emissions	Miguel Angel Rabago Garcia	-
EIRP (Radiated)	Miguel Angel Rabago Garcia	-
Authorised Band Edges	Miguel Angel Rabago Garcia	-
Spurious Radiated Emissions	Miguel Angel Rabago Garcia / Rafael Aguiar Cota	-

Table 4

Laboratory Address: 10040 Mesa Rim Road,
San Diego, CA,
92121, US



2 Test Details

2.1 AC Power Line Conducted Emissions

2.1.1 Specification Reference

FCC 47 CFR Part 15, Limit Clause 15.207 and Industry Canada RSS-GEN, Limit Clause 8.8

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

Table 5

*Decreases with the logarithm of the frequency.

2.1.2 Equipment Under Test and Modification State

B30-00271-01:1704250600138 / Test Configuration: 5GHz WiFi Transmitting

2.1.3 Date of Test

12-May-2026

2.1.4 Environmental Conditions

Ambient Temperature 23.0 °C
Relative Humidity 44.5 %

2.1.5 Test Results

5GHz WiFi Transmitting

Compliant. See attached plots and tables.

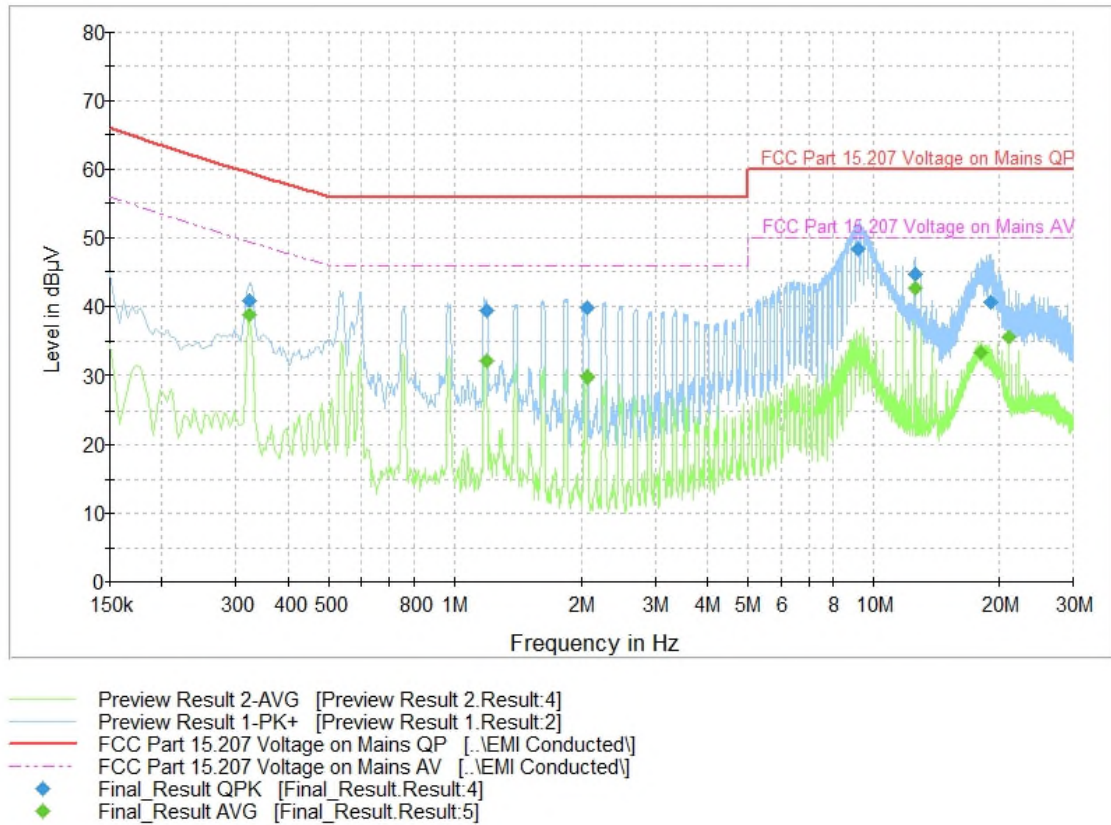
Applied supply Voltage: 120VAC
Applied supply frequency: 60Hz

Additional Observations:

- Test was performed with the radio transmitting on the worst-case channel power wise according to Section 2.2 (Ch 157)



2.1.6 120VAC 60Hz



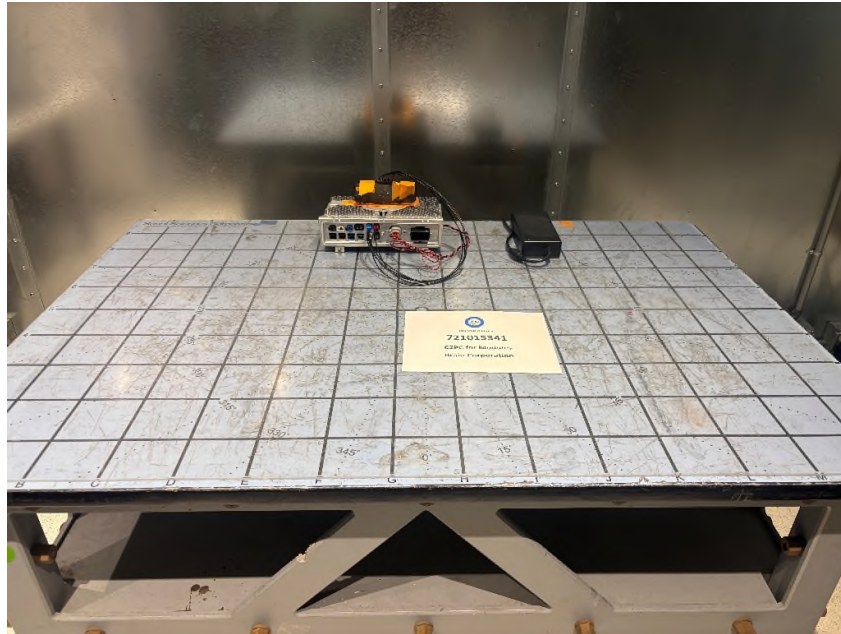
Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Trd Corr. (dB)
0.324000	40.73	59.42	18.68	1000.0	9.000	L1	ON	9.6	0.324000
1.196000	39.39	56.00	16.61	1000.0	9.000	L1	ON	9.6	1.196000
2.064000	39.87	56.00	16.13	1000.0	9.000	L1	ON	9.7	2.064000
9.152000	48.41	60.00	11.59	1000.0	9.000	L1	ON	9.9	9.152000
12.536000	44.74	60.00	15.26	1000.0	9.000	L1	ON	10.0	12.536000
19.004000	40.67	60.00	19.33	1000.0	9.000	L1	ON	10.2	19.004000

Final_Result_AVG

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Trd Corr. (dB)
0.324000	38.79	49.38	10.59	1000.0	9.000	L1	ON	9.6	0.324000
1.192000	32.03	46.00	13.97	1000.0	9.000	L1	ON	9.6	1.192000
2.064000	29.79	46.00	16.21	1000.0	9.000	L1	ON	9.7	2.064000
12.536000	42.59	50.00	7.41	1000.0	9.000	N	ON	10.1	12.536000
17.992000	33.29	50.00	16.71	1000.0	9.000	L1	ON	10.1	17.992000
21.028000	35.46	50.00	14.54	1000.0	9.000	N	ON	10.3	21.028000

2.1.7 Test Setup Photos



2.1.8 Test Location and Test Equipment Used

This test was carried out in SR-3.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Two-Line Network	Rohde & Schwarz	ENV-216	65161	12	07/24/2026
EMI Test Receiver	Rohde & Schwarz	ESU40	SDGE07620	12	08/08/2026



2.2 EIRP (Radiated)

2.2.1 Specification Reference

FCC 47 CFR Part 15C Clause 15.247 (b) (3), ISSED RSS-247 Clause 5.4 (d)

Frequency of Emission (MHz)	Limit (dBμV/m) @3m	
	FCC 15.247	ISED RSS-247
902 to 928	125.23	131.2
2400 to 2483.5	125.23	131.2
5725 to 5850	125.23	131.2

Table 6

2.2.2 Equipment Under Test and Modification State

B30-00271-01:1704250600138 / Test Configuration: 5GHz WiFi Transmitting

2.2.3 Date of Test

23-April-2026

2.2.4 Environmental Conditions

Ambient Temperature 23.0 °C
Relative Humidity 44.5 %

2.2.5 Test Results

5GHz WiFi Transmitting

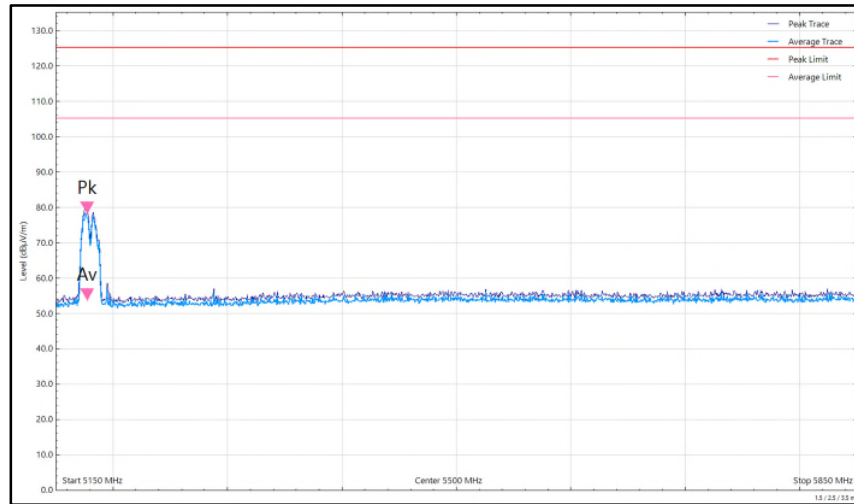
Compliant. See attached plots and tables.

Additional Observations:

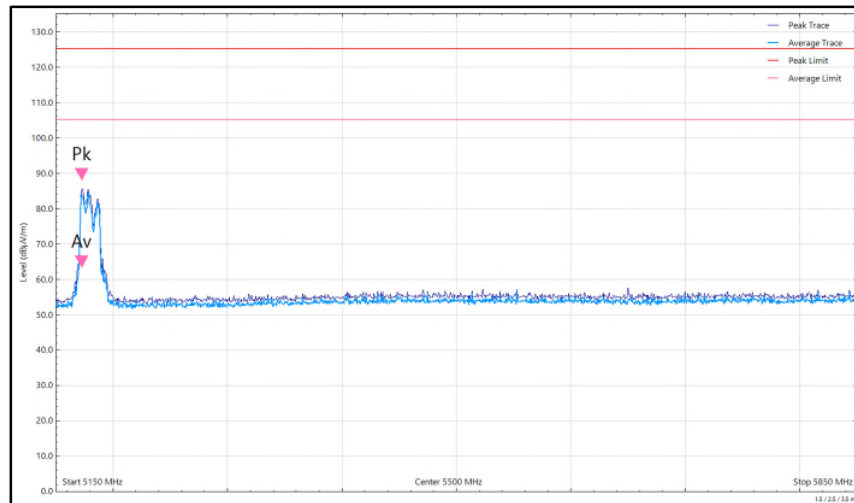
- FCC Limit was used since is the stricter limit.

Results

Frequency (MHz)	UNII	Channel	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5172.740	1	36	87.60	125.23	-37.63
5192.690	1	40	86.72	125.23	-38.51
5232.780	1	48	87.09	125.23	-38.14
5258.990	2	52	87.86	125.23	-37.37
5495.440	2	100	88.81	125.23	-36.42
5720.740	2	144	89.27	125.23	-35.96
5746.661	3	149	89.49	125.23	-35.74
5782.730	3	157	91.08	125.23	-34.15
5818.453	3	165	87.92	125.23	-37.31



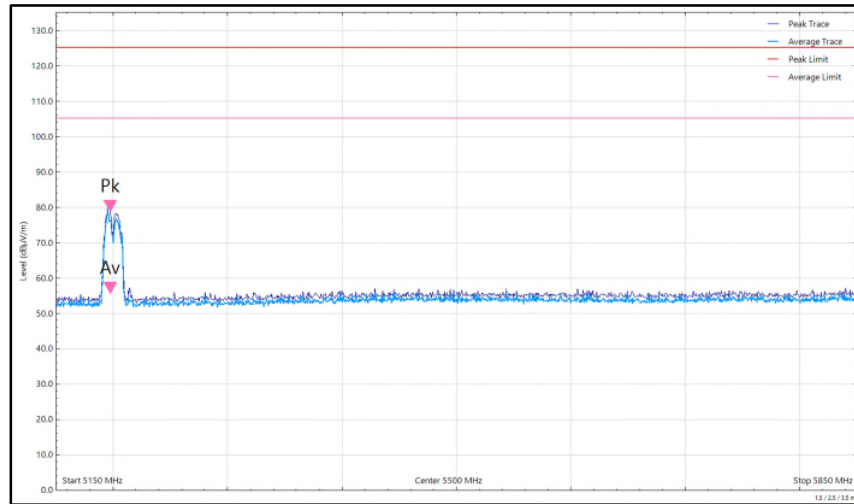
UNII 1 Low Channel (Ch 36) Horizontal



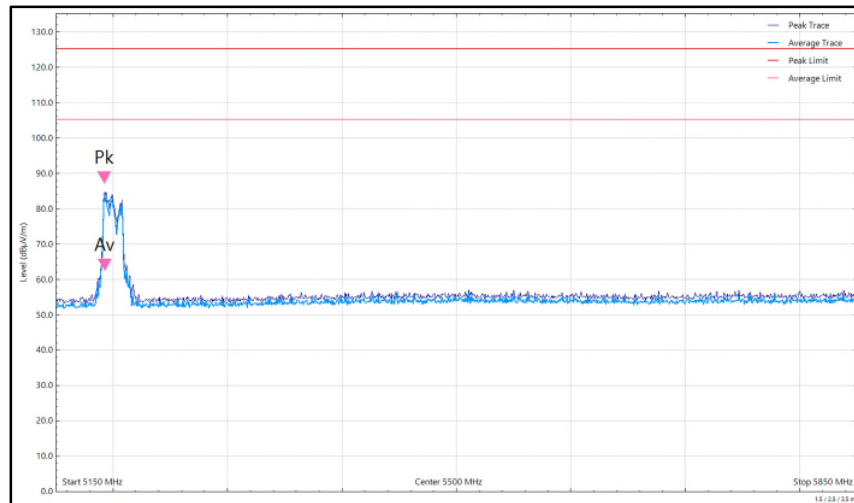
UNII 1 Low Channel (Ch 36) Vertical

Final Results

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5172.610	62.97	105.23	-42.26	Average	96	138	Vertical
5172.740	87.60	125.23	-37.63	Peak	96	138	Vertical
5177.518	53.18	105.23	-52.05	Average	206	97	Horizontal
5177.618	77.70	125.23	-47.53	Peak	206	97	Horizontal



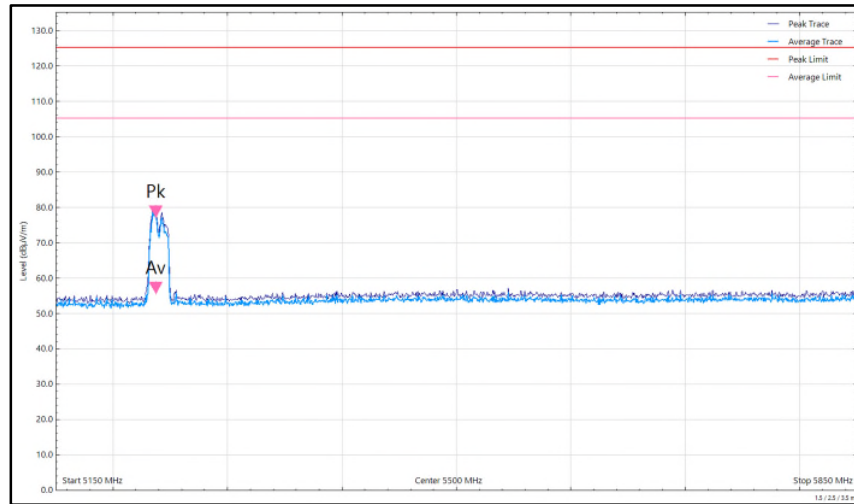
UNII 1 Middle Channel (Ch 40) Horizontal



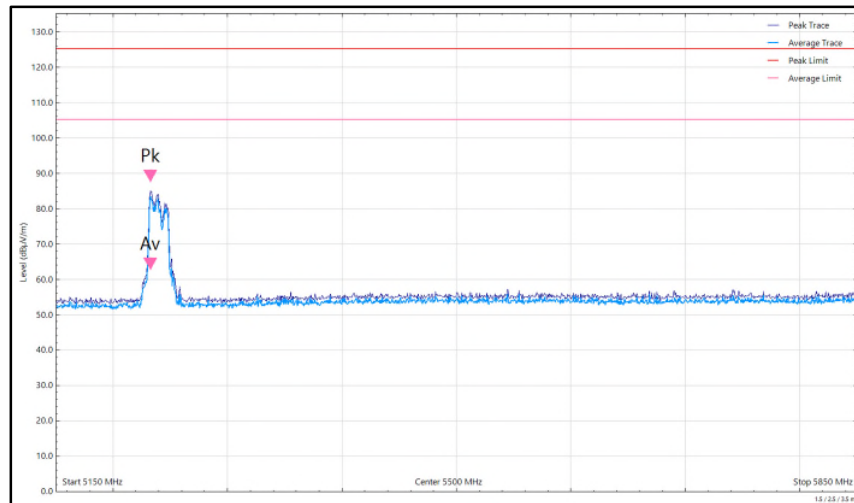
UNII 1 Middle Channel (Ch 40) Vertical

Final Results

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5192.690	86.72	125.23	-38.51	Peak	93	137	Vertical
5192.740	62.03	105.23	-43.20	Average	93	137	Vertical
5197.547	55.11	105.23	-50.12	Average	208	97	Horizontal
5197.577	78.23	125.23	-47.00	Peak	208	97	Horizontal



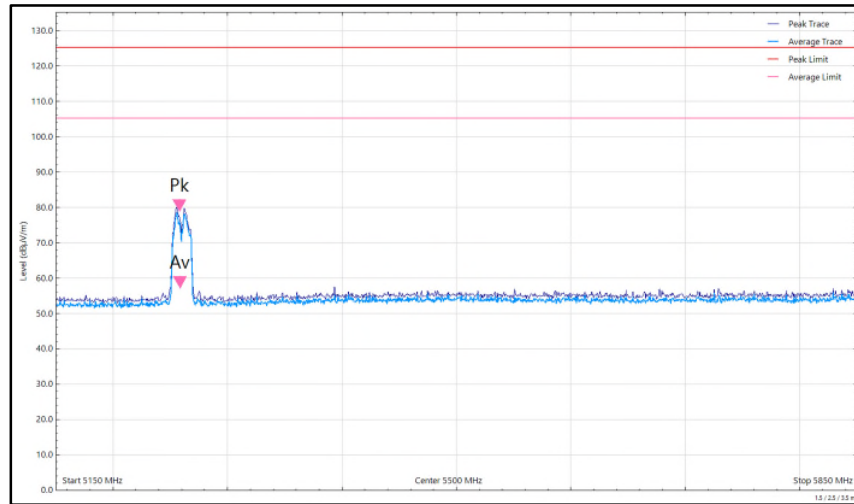
UNII 1 High Channel (Ch 48) Horizontal



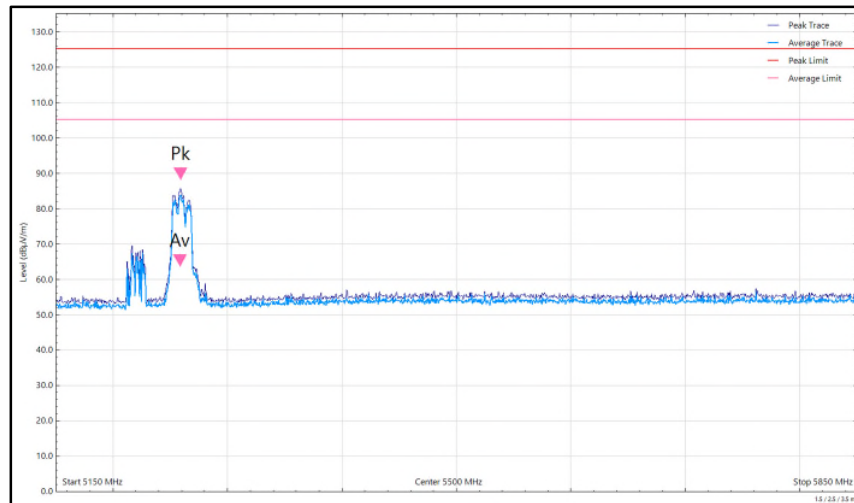
UNII 1 High Channel (Ch 48) Vertical

Final Results

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5232.530	62.34	105.23	-42.89	Average	273	129	Vertical
5232.780	87.09	125.23	-38.14	Peak	273	129	Vertical
5237.479	55.08	105.23	-50.15	Average	215	97	Horizontal
5237.499	76.61	125.23	-48.62	Peak	215	97	Horizontal



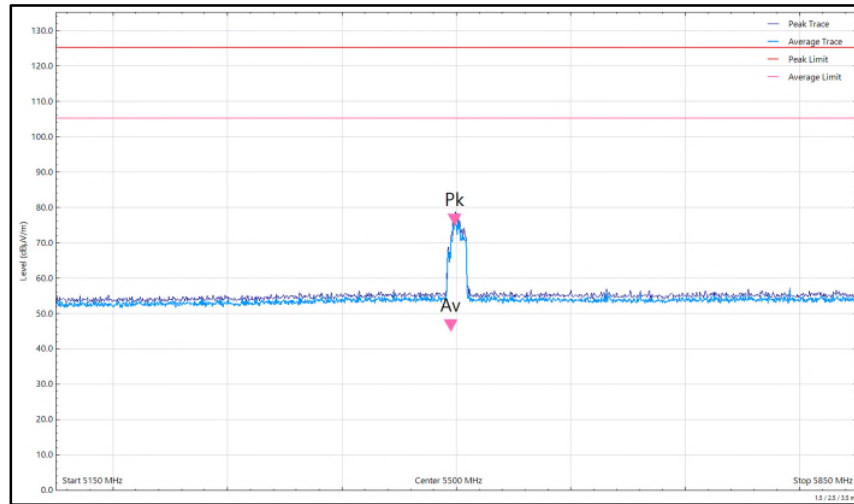
UNII 2 Low Channel (Ch 52) Horizontal



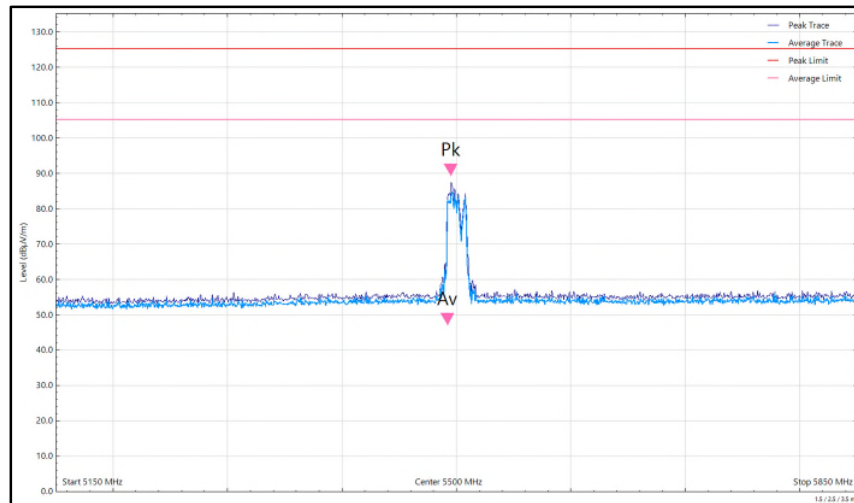
UNII 2 Low Channel (Ch 52) Vertical

Final Results

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5257.957	78.36	125.23	-46.87	Peak	210	97	Horizontal
5258.696	56.65	105.23	-48.58	Average	210	97	Horizontal
5258.710	63.25	105.23	-41.98	Average	92	141	Vertical
5258.990	87.86	125.23	-37.37	Peak	92	141	Vertical



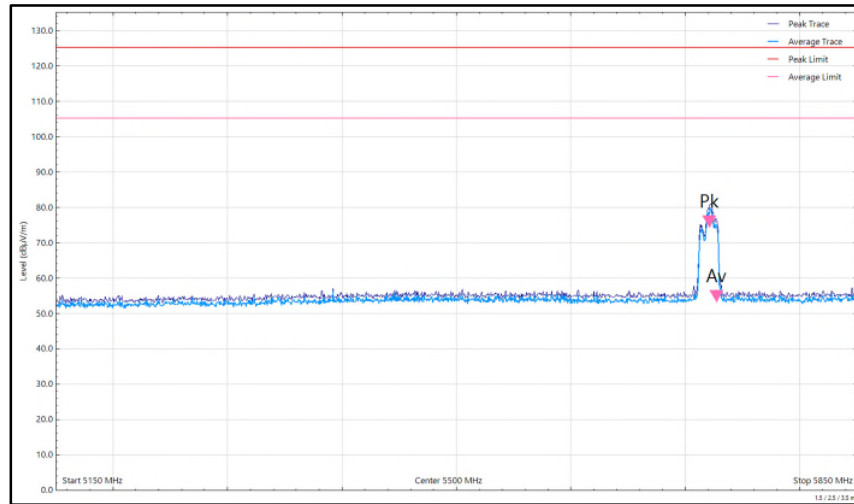
UNII 2 Middle Channel (Ch 100) Horizontal



UNII 2 Middle Channel (Ch 100) Vertical

Final Results

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5492.213	46.67	105.23	-58.56	Average	271	153	Vertical
5494.964	44.46	105.23	-60.77	Average	213	97	Horizontal
5495.440	88.81	125.23	-36.42	Peak	271	153	Vertical
5498.670	74.28	125.23	-50.95	Peak	213	97	Horizontal



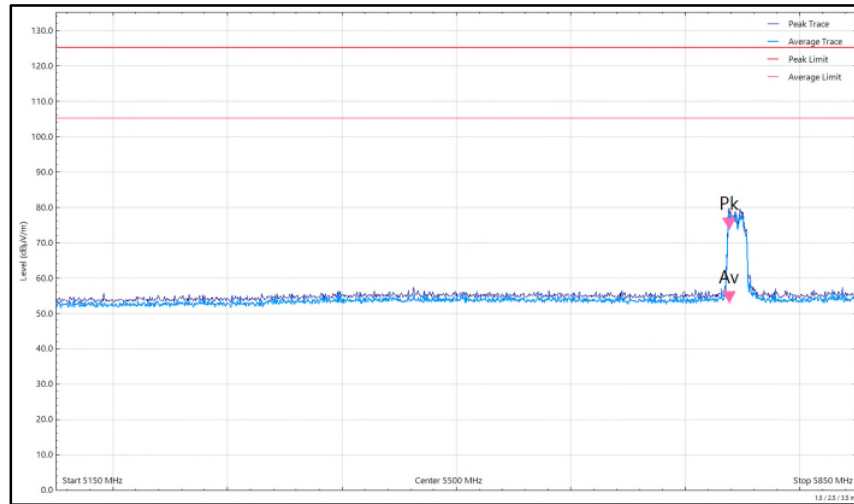
UNII 2 High Channel (Ch 144) Horizontal



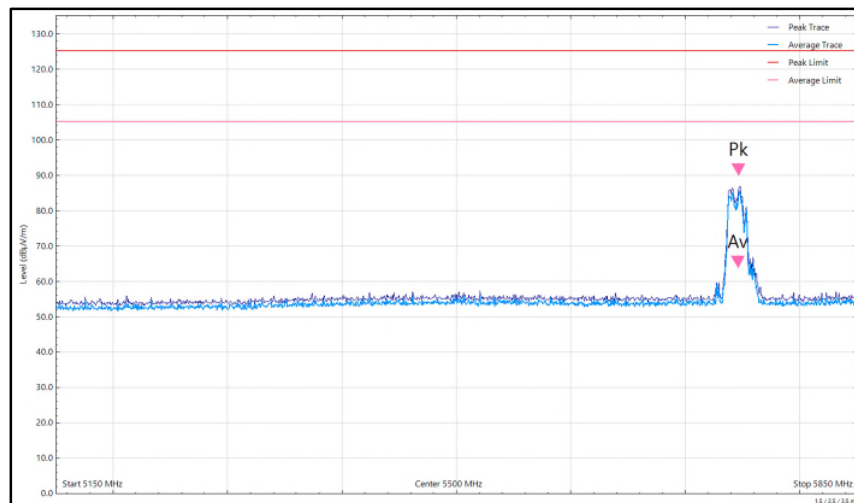
UNII 2 High Channel (Ch 144) Vertical

Final Results

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5718.922	62.98	105.23	-42.25	Average	269	136	Vertical
5720.740	89.27	125.23	-35.96	Peak	269	136	Vertical
5721.091	73.91	125.23	-51.32	Peak	46	98	Horizontal
5727.275	52.74	105.23	-52.49	Average	46	98	Horizontal



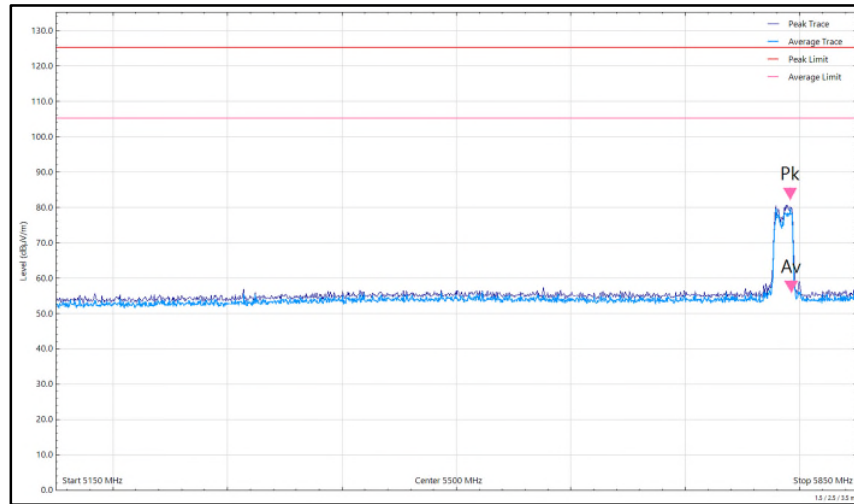
UNII 3 Low Channel (Ch 149) Horizontal



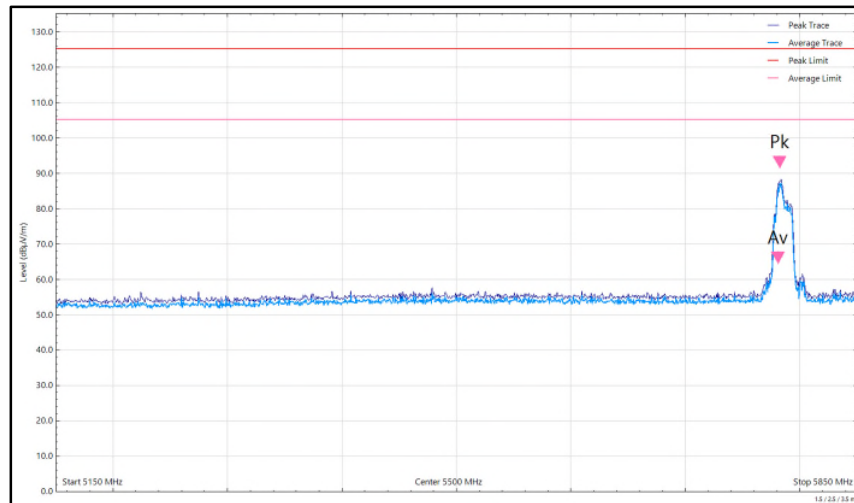
UNII 3 Low Channel (Ch 149) Vertical

Final Results

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5738.430	73.17	125.23	-52.06	Peak	207	97	Horizontal
5738.689	52.46	105.23	-52.77	Average	207	97	Horizontal
5746.001	63.32	105.23	-41.91	Average	274	132	Vertical
5746.661	89.49	125.23	-35.74	Peak	274	132	Vertical



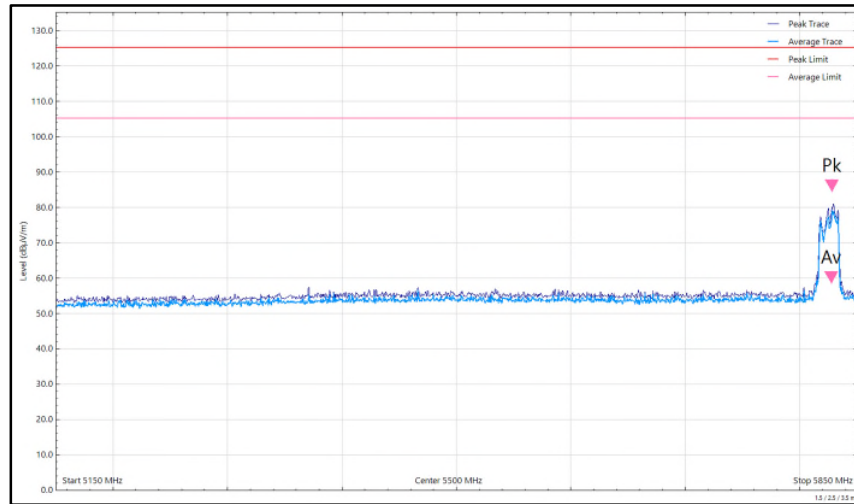
UNII 3 Middle Channel (Ch 157) Horizontal



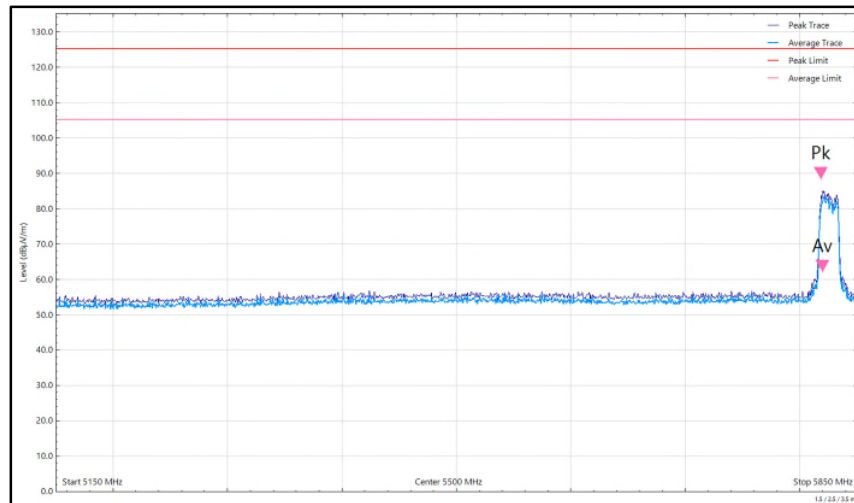
UNII 3 Middle Channel (Ch 157) Vertical

Final Results

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5781.382	63.96	105.23	-41.27	Average	266	133	Vertical
5782.730	91.08	125.23	-34.15	Peak	266	133	Vertical
5791.796	81.73	125.23	-43.50	Peak	181	97	Horizontal
5792.575	55.38	105.23	-49.85	Average	181	97	Horizontal



UNII 3 High Channel (Ch 165) Horizontal



UNII 3 High Channel (Ch 165) Vertical

Final Results

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5818.453	87.92	125.23	-37.31	Peak	273	118	Vertical
5819.871	61.71	105.23	-43.52	Average	273	118	Vertical
5827.511	58.08	105.23	-47.15	Average	275	97	Horizontal
5828.031	84.07	125.23	-41.16	Peak	275	97	Horizontal



2.3 Authorised Band Edges

2.3.1 Specification Reference

FCC 47 CFR Part 15, Limit Clause 15.407 (d)

For transmitters operating in the 5.15–5.35 GHz, 5.47–5.725 GHz, and 5.725–5.85 GHz bands: all emissions outside of the specified operation frequency bands shall be attenuated to an equivalent e.i.r.p. limit of -27 dBm/MHz. If the unwanted emissions fall within the restricted bands specified in § 15.205(a), the provisions of § 15.209 shall apply instead of the e.i.r.p. limits

Industry Canada RSS-247

For transmitters operating in the 5150–5250 MHz, 5250–5350 MHz, and 5470–5725 MHz bands: all emissions outside of the specified operation frequency bands shall be attenuated to an equivalent e.i.r.p. limit of -27 dBm/MHz. Unwanted emissions falling within the restricted frequency bands specified in RSS-Gen Section 8.10 shall comply with the limits set forth in RSS-Gen Section 8.9.

2.3.2 Equipment Under Test and Modification State

B30-00271-01:1704250600138 / Test Configuration: 5GHz WiFi Transmitting

2.3.3 Date of Test

16-April-2026

2.3.4 Environmental Conditions

Ambient Temperature	22.4°C
Relative Humidity	99.8 %

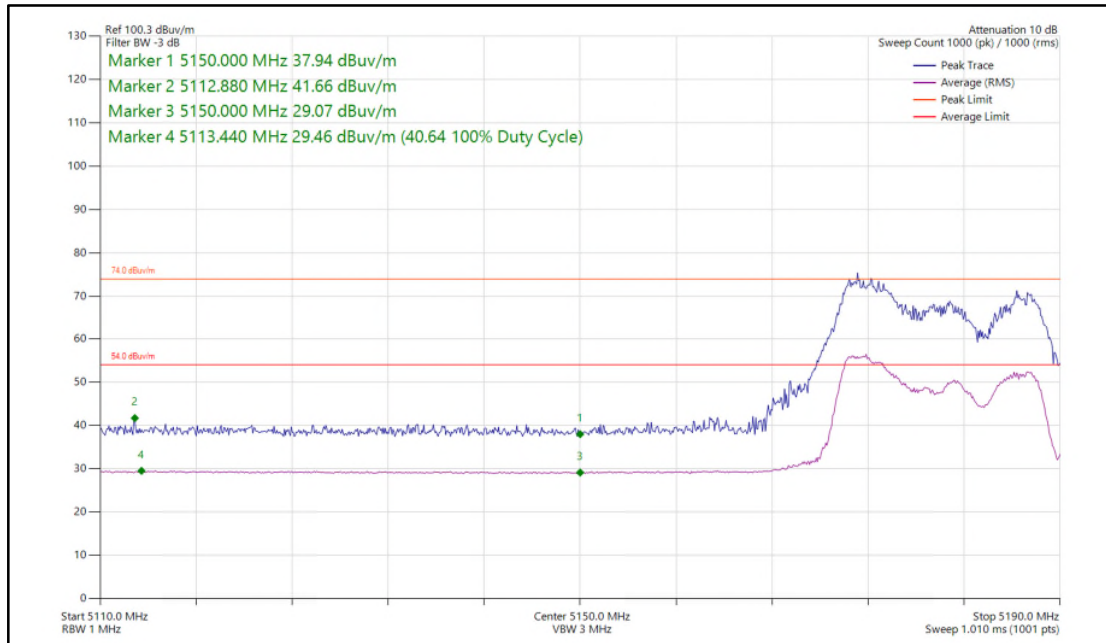
2.3.5 Test Results

5GHz WiFi Transmitting

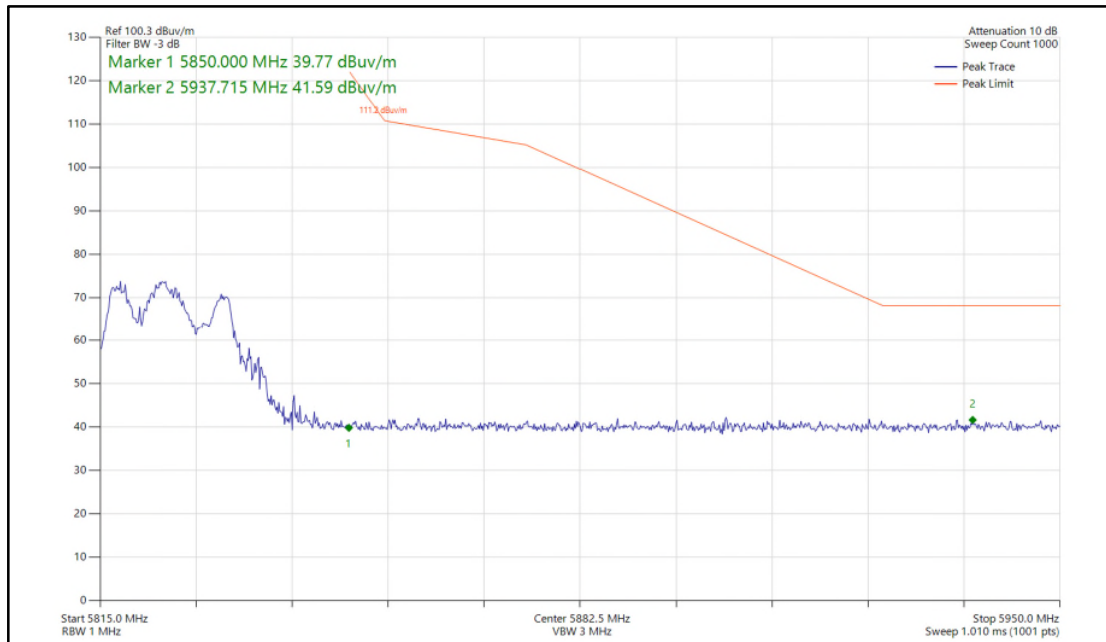
Ch 36 (UNII-1) 20MHz BW was tested as Worst Case Low Channel

Ch 165 (UNII-3) 20MHz BW was tested as Worst Case High Channel

Compliant. See attached plots and tables.

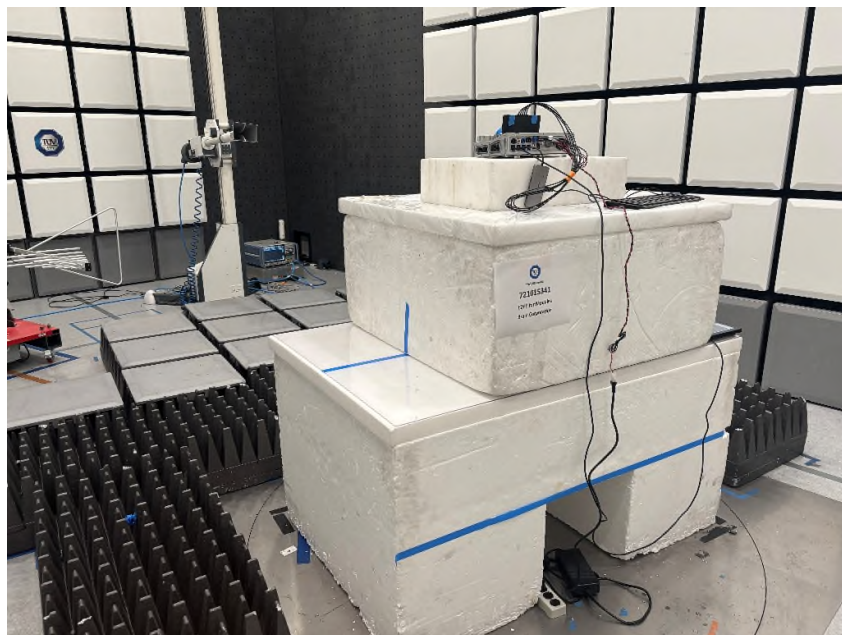
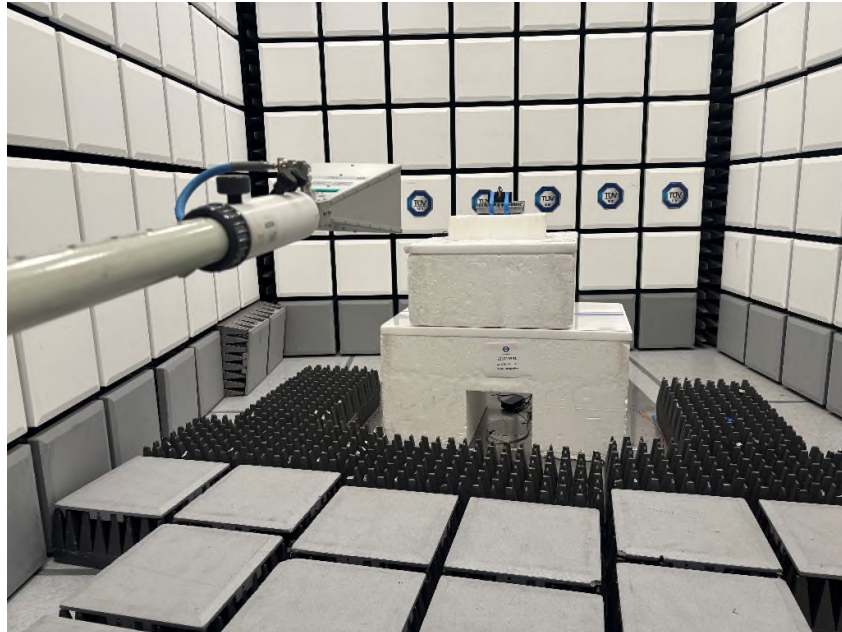


Low Channel Band Edge



High Channel Band Edge

2.3.6 Test Setup Photos





2.3.7 Test Location and Test Equipment Used

This test was carried out in SR-5

Instrument	Manufacturer	Type No	TE No	Calibration Period (Months)	Calibration Expires
ESW44 EMI Test Receiver	Rohde & Schwarz	ESW44 with HF Option	68210	12	06-29-2026
1-10 GHz Broad-Band Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9120 B	69563	12	06-11-2026
TUV SSU 010 PLC US	TUV SUD UK	TUV SSU 010 PLC US	74136	12	06-15-2026



2.4 Spurious Radiated Emissions

2.4.1 Specification Reference

FCC 47 CFR Part 15E, ISSED RSS-247 and ISSED RSS-GEN, Clause 15.407 (b), Limit Clause 6.2

2.4.2 Equipment Under Test and Modification State

B30-00271-01:1704250600138 / Test Configuration: 5GHz WiFi On

2.4.3 Date of Test

13-21 April 2026

2.4.4 Test Method

FCC 47 CFR Part 15, Limit Clause 15.407 (b)

For transmitters operating in the 5.15–5.35 GHz, 5.47–5.725 GHz, and 5.725–5.85 GHz bands: all emissions outside of the specified operation frequency bands shall be attenuated to an equivalent e.i.r.p. limit of -27 dBm/MHz

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a).

Industry Canada RSS-247, Limit Clause 6.2

For transmitters operating in the 5150–5250 MHz, 5250–5350 MHz, and 5470–5725 MHz bands: all emissions outside of the specified operation frequency bands shall be attenuated to an equivalent e.i.r.p. limit of -27 dBm/MHz

Attenuation below the general field strength limits specified in RSS-Gen is not required. Unwanted emissions falling within the restricted frequency bands specified in RSS-Gen Section 8.10 shall comply with the radiated emission limits set forth in RSS-Gen Section 8.9.

2.4.5 Environmental Conditions

Ambient Temperature	22.5-24.6 °C
Relative Humidity	98.7-99.8 %

2.4.6 Test Results

Additional Observations:

- Measurement was done using EMX automated software. Reported level is the actual level with all the correction factors factored in. Correction factors across the frequency range measured are registered as a transducer factor at the ESW (Measuring Receiver) by EMX automated software.
- Only Ch 40 for UNII 1, Ch144 for UNII 2, and Ch 157 for UNII 3 were tested as worst case channels per section 2.2.
- Spectrum was searched up to the 10th Harmonic

Transducer: 30MHz to 1GHz		
Correction Factor (dB) @30MHz	Measuring Cable (EMX-CB72786.DAT)	0.17
	Trilog-Broadband Antenna (EMX-AN69564.DAT)	12.17
Transducer factor in ESW Receiver @ 30MHz (dB)		12.34

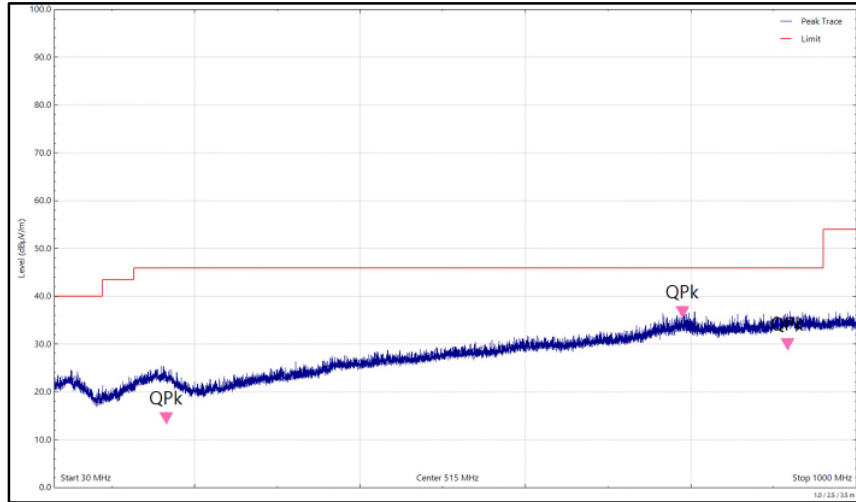
Transducer: Idle 1to8GHz		
Correction Factor (dB) @ 1GHz	SSU Switch (GN1301.DAT)	-44.60
	Measuring Cable (EMX-CB72787.DAT)	1.06
	Measuring Cable (EMX-CB72780.DAT)	0.57
	Horn Antenna (EMX-AN69563.DAT)	29.39
Transducer factor in ESW Receiver @ 1GHz (dB)		-13.58

Transducer: 8-18GHz		
Correction Factor (dB) @ 8GHz	Pre-Amplifier (EMX-PA78961.DAT)	-44.52
	SSU Switch (ST4918.dat)	1.60
	Measuring Cable (EMX-CB72787.DAT)	1.06
	Measuring Cable (EMX-CB72780.DAT)	0.57
	Horn Antenna (EMX-AN69562.DAT)	30.89
Transducer factor in ESW Receiver @ 8GHz (dB)		-10.40

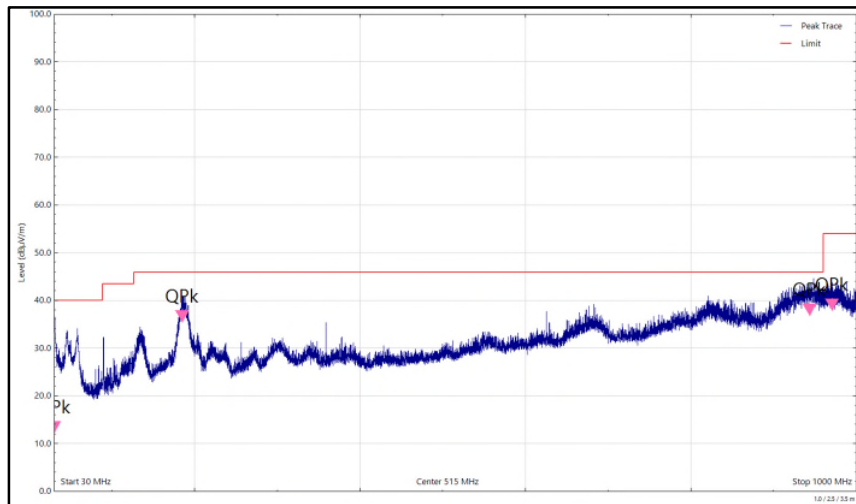
Transducer: 18 to 26GHz		
Correction Factor (dB) @ 18GHz	Pre-Amplifier (EMX-PA40815.DAT)	-41.0
	Measuring Cable (EMX-CB08880.DAT)	7.55
	Horn Antenna (EMX-AN09001.DAT)	33.39
Transducer factor in ESW Receiver @ 18GHz (dB)		-0.06

Compliant. See attached plots and tables.

2.4.7 Test Results 30MHz to 1GHz



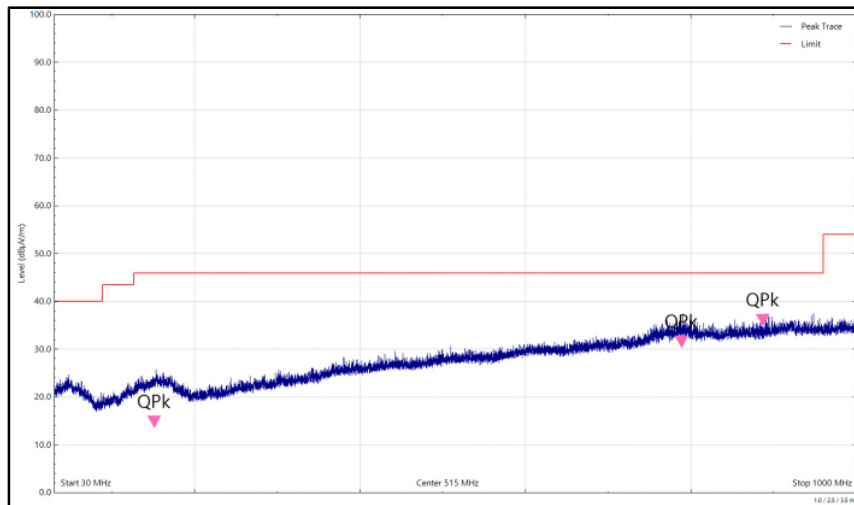
UNII 1 Ch 40, 30MHz-1GHz, Horizontal



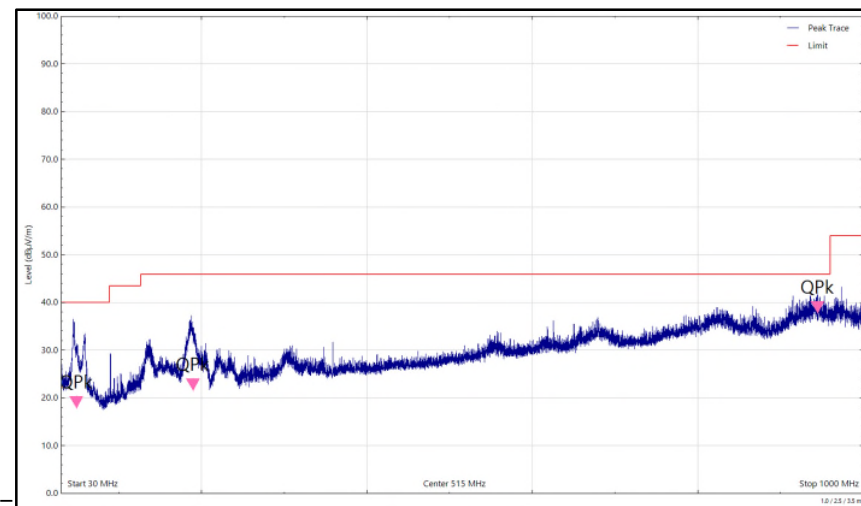
UNII 1 Ch 40, 30MHz-1GHz, Vertical

UNII 1 CH40, 30MHz to 1GHz Quasi Peak Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.318	11.88	40.00	-28.12	Q-Peak	0	108	Vertical
166.088	12.93	46.00	-33.07	Q-Peak	350	374	Horizontal
185.100	35.04	46.00	-10.96	Q-Peak	288	107	Vertical
790.037	35.09	46.00	-10.91	Q-Peak	150	100	Horizontal
917.109	28.33	46.00	-17.67	Q-Peak	143	135	Horizontal
943.533	36.50	46.00	-9.50	Q-Peak	146	100	Vertical



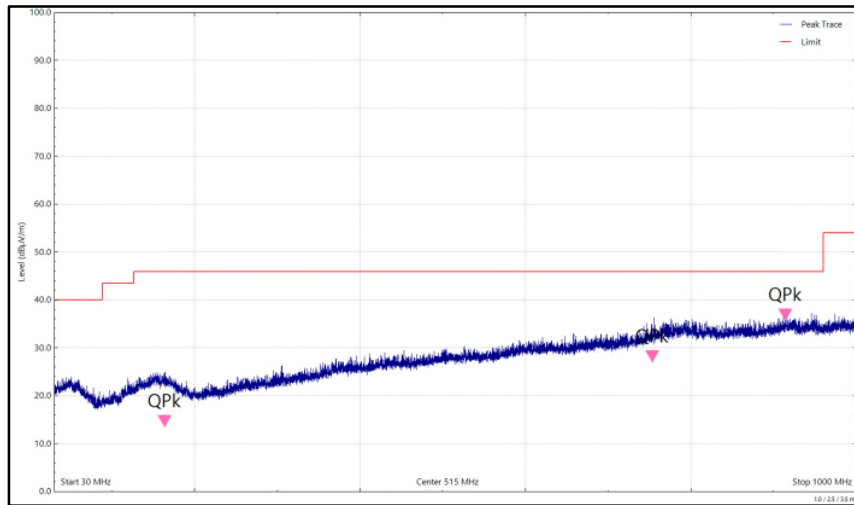
UNII 2 Ch 144, 30MHz-1GHz, Horizontal



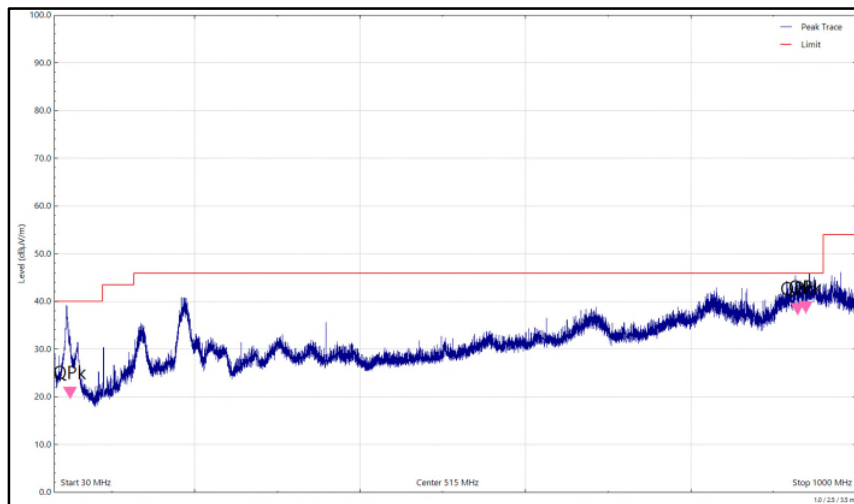
UNII 2 Ch 144, 30MHz-1GHz, Vertical

UNII 2 Ch 144, 30MHz to 1GHz Quasi Peak Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
49.117	17.47	40.00	-22.53	Q-Peak	350	163	Vertical
151.605	13.27	46.00	-32.73	Q-Peak	100	340	Horizontal
189.717	21.26	46.00	-24.74	Q-Peak	317	100	Vertical
788.786	30.04	46.00	-15.96	Q-Peak	148	182	Horizontal
887.348	34.54	46.00	-11.46	Q-Peak	134	104	Horizontal
944.958	37.39	46.00	-8.61	Q-Peak	149	100	Vertical



UNII 3 Ch 157, 30MHz-1GHz, Horizontal

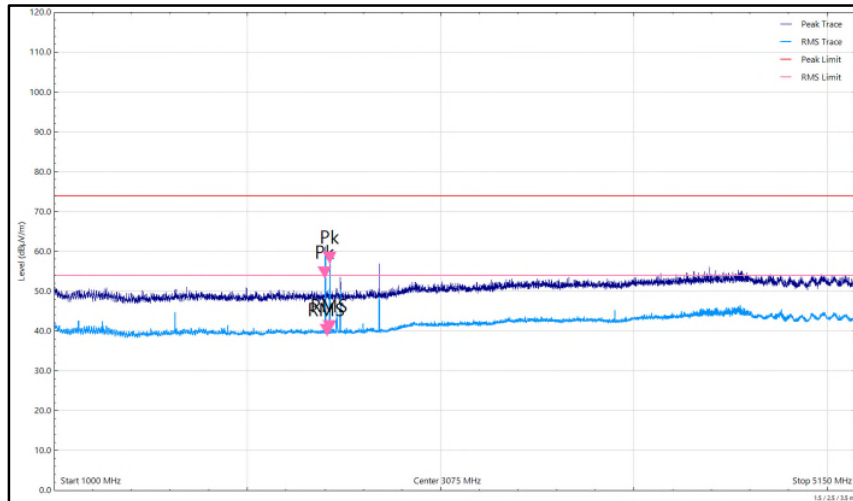


UNII 3 Ch 157, 30MHz-1GHz, Vertical

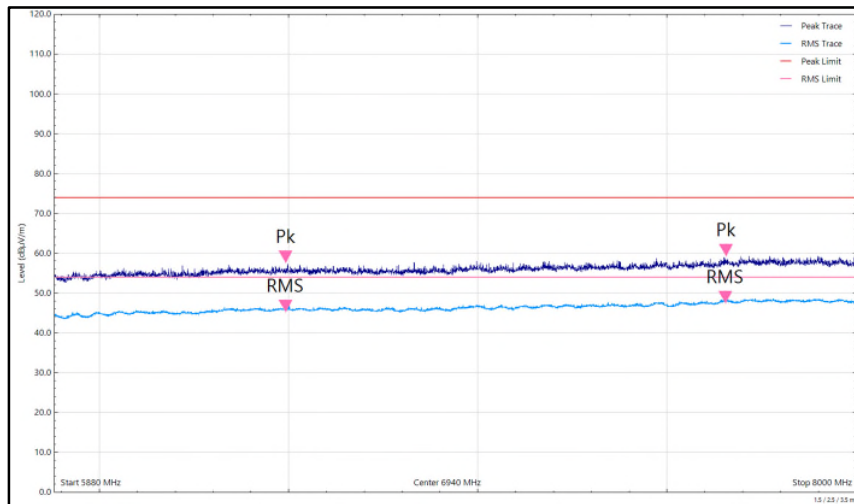
UNII 3 Ch 157, 30MHz to 1GHz Quasi Peak Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
49.570	19.25	40.00	-20.75	Q-Peak	350	114	Vertical
164.155	13.11	46.00	-32.89	Q-Peak	10	122	Horizontal
753.957	26.66	46.00	-19.34	Q-Peak	140	100	Horizontal
914.863	35.37	46.00	-10.63	Q-Peak	348	340	Horizontal
929.006	36.83	46.00	-9.17	Q-Peak	141	101	Vertical
939.118	37.21	46.00	-8.79	Q-Peak	144	100	Vertical

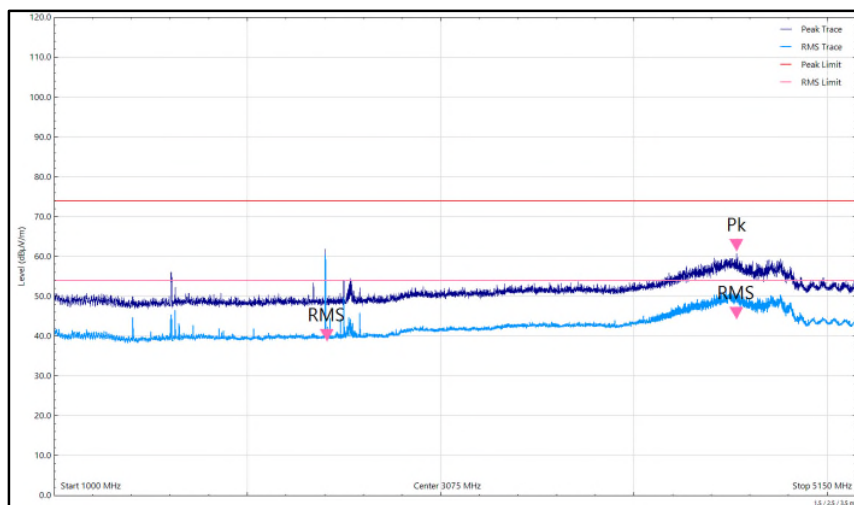
2.4.8 Test Results 1GHz to 8GHz



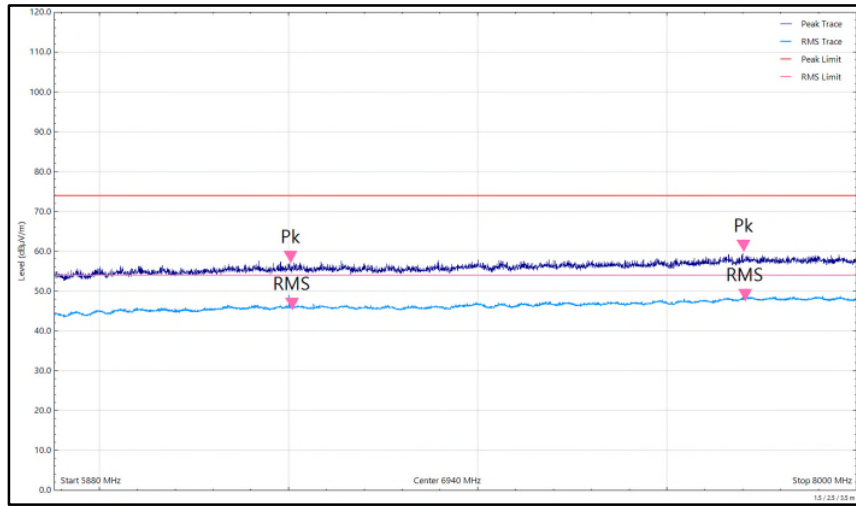
UNII 1 Ch 40, 1GHz to 5.150 GHz, Horizontal



UNII 1 Ch 40, 5.880 GHz to 8 GHz, Horizontal



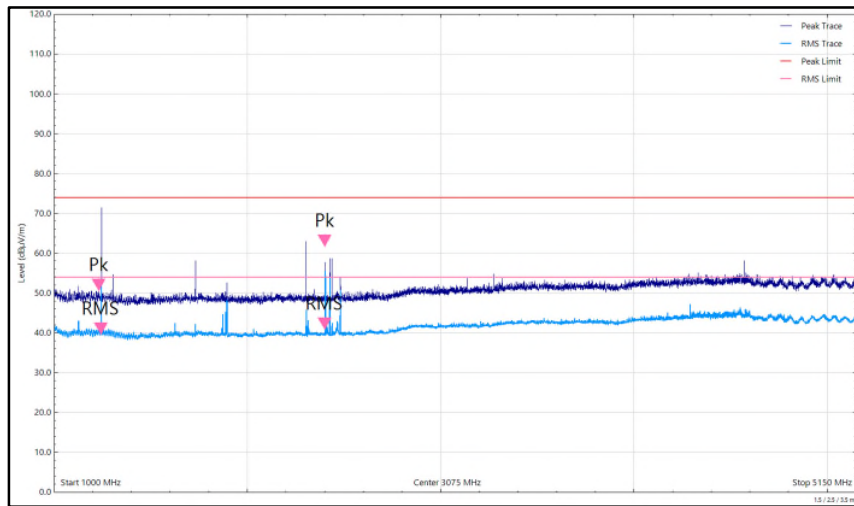
UNII 1 Ch 40, 1GHz to 5.150 GHz, Vertical



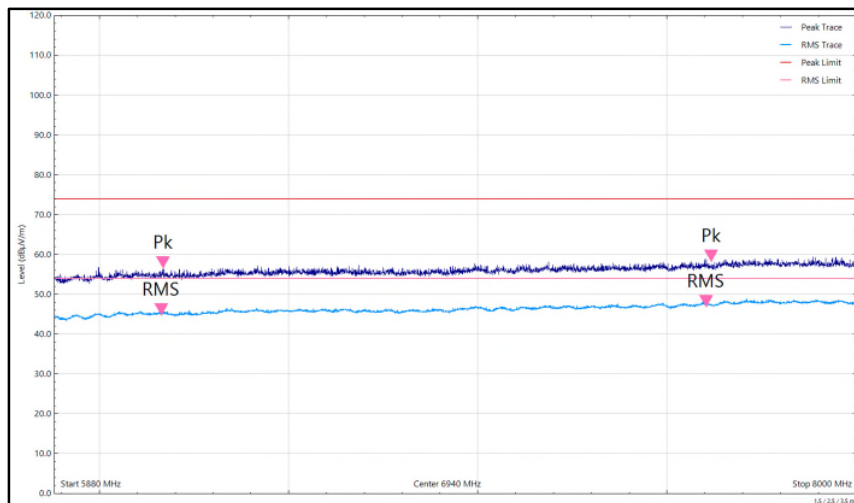
UNII 1 Ch 40, 5.880 GHz to 8 GHz, Vertical

UNII 1 Ch 40 1GHz to 8GHz Peak and RMS Data

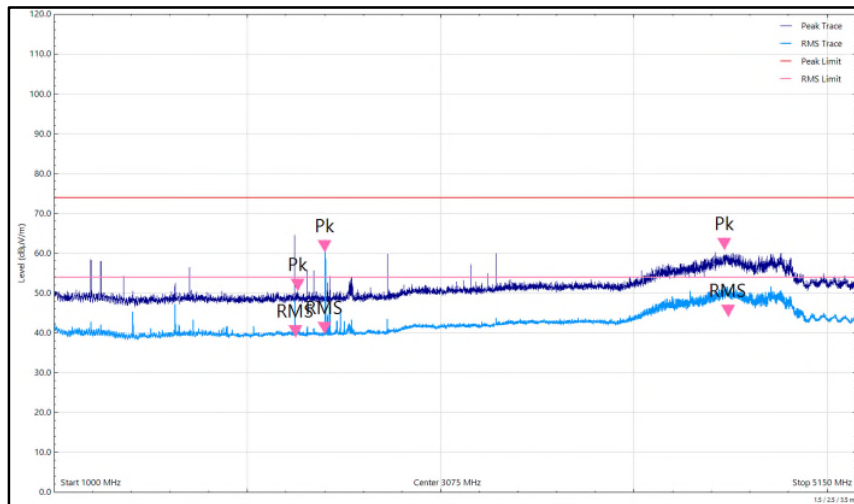
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2402.000	52.81	74.00	-21.19	Peak	329	97	Horizontal
2412.572	38.41	54.00	-15.59	RMS	329	97	Horizontal
2413.069	38.34	54.00	-15.66	RMS	4	97	Vertical
2425.917	56.48	74.00	-17.52	Peak	338	97	Horizontal
2426.124	39.35	54.00	-14.65	RMS	338	97	Horizontal
4531.142	43.93	54.00	-10.07	RMS	336	97	Vertical
4532.012	60.92	74.00	-13.08	Peak	336	97	Vertical
6492.658	57.16	74.00	-16.84	Peak	323	135	Horizontal
6492.785	44.87	54.00	-9.13	RMS	323	135	Horizontal
6506.205	56.70	74.00	-17.30	Peak	74	97	Vertical
6510.060	44.87	54.00	-9.13	RMS	74	97	Vertical
7655.048	47.04	54.00	-6.96	RMS	323	97	Horizontal
7656.552	58.90	74.00	-15.10	Peak	323	97	Horizontal
7702.506	59.42	74.00	-14.58	Peak	353	97	Vertical
7707.251	47.10	54.00	-6.90	RMS	353	97	Vertical
2402.000	52.81	74.00	-21.19	Peak	329	97	Horizontal



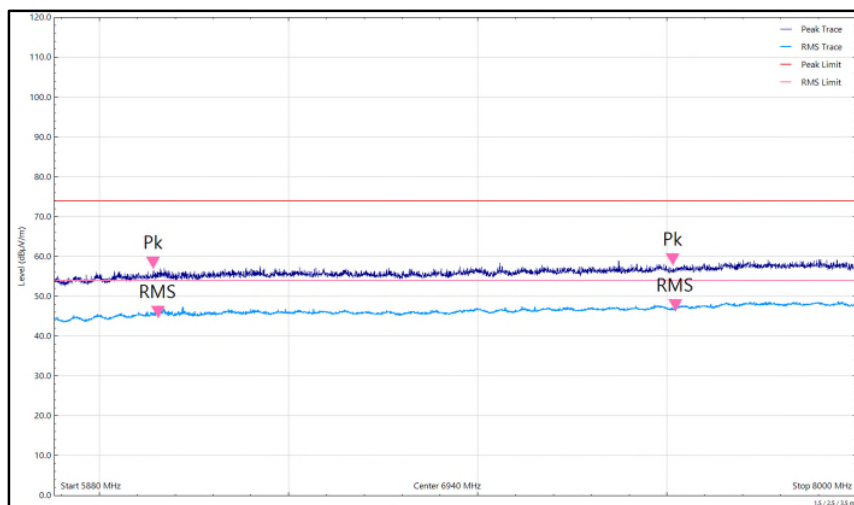
UNII 2 Ch 144, 1GHz to 5.150 GHz, Horizontal



UNII 2 Ch 144, 5.880 GHz to 8GHz GHz, Horizontal



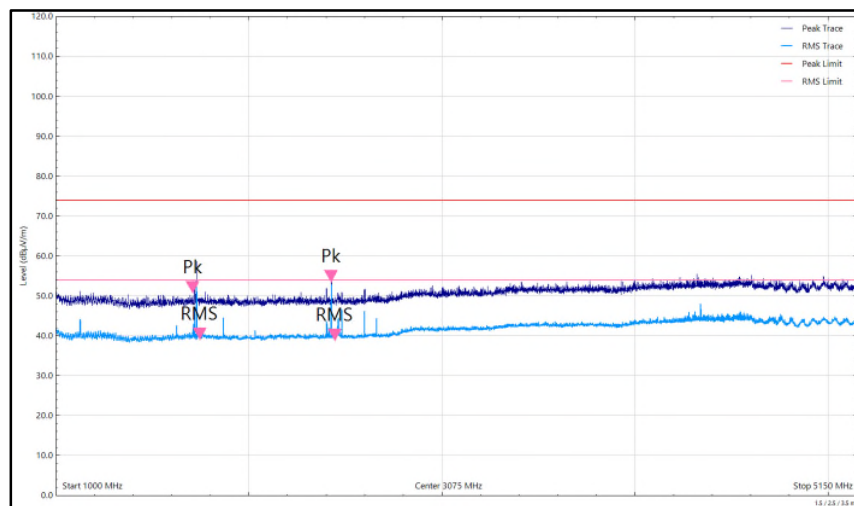
UNII 2 Ch 144, 1GHz to 5.150 GHz, Vertical



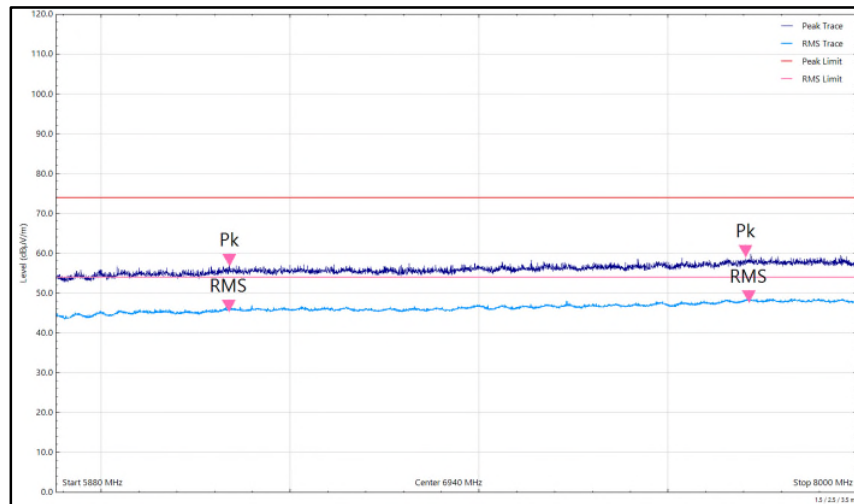
UNII 2 Ch 144, 5.880 GHz to 8GHz GHz, Vertical

UNII 2 Ch 144, 1GHz to 8GHz Peak and RMS Data

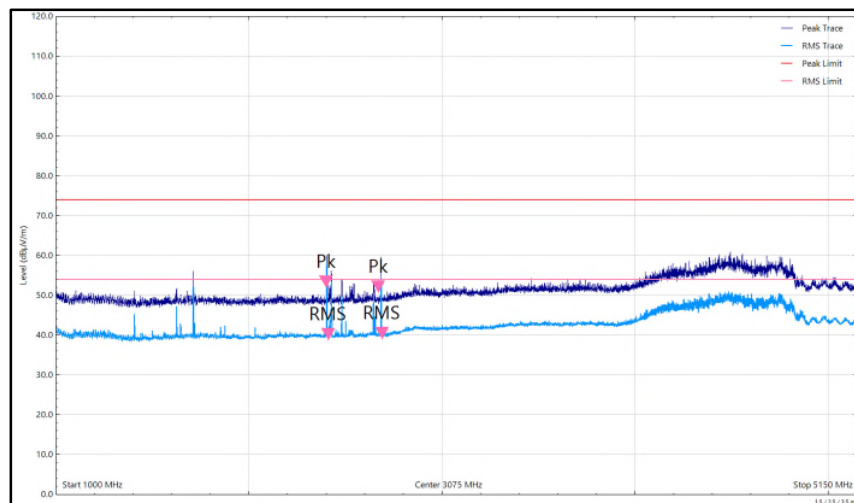
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1231.189	50.10	74.00	-23.90	Peak	187	97	Horizontal
1243.088	39.17	54.00	-14.83	RMS	187	97	Horizontal
2249.719	38.51	54.00	-15.49	RMS	184	97	Vertical
2261.783	50.17	74.00	-23.83	Peak	184	97	Vertical
2401.876	61.18	74.00	-12.82	Peak	304	165	Horizontal
2401.956	39.37	54.00	-14.63	RMS	200	97	Vertical
2402.122	59.93	74.00	-14.07	Peak	200	97	Vertical
2402.124	40.48	54.00	-13.52	RMS	304	165	Horizontal
4467.761	60.42	74.00	-13.58	Peak	88	134	Vertical
4488.241	43.68	54.00	-10.32	RMS	88	134	Vertical
6142.701	56.53	74.00	-17.47	Peak	52	97	Vertical
6154.794	44.25	54.00	-9.75	RMS	52	97	Vertical
6164.455	44.33	54.00	-9.67	RMS	323	97	Horizontal
6168.839	56.12	74.00	-17.88	Peak	323	97	Horizontal
7516.079	57.34	74.00	-16.66	Peak	17	97	Vertical
7523.089	45.81	54.00	-8.19	RMS	17	97	Vertical
7603.418	46.45	54.00	-7.55	RMS	333	97	Horizontal
7617.650	57.78	74.00	-16.22	Peak	333	97	Horizontal



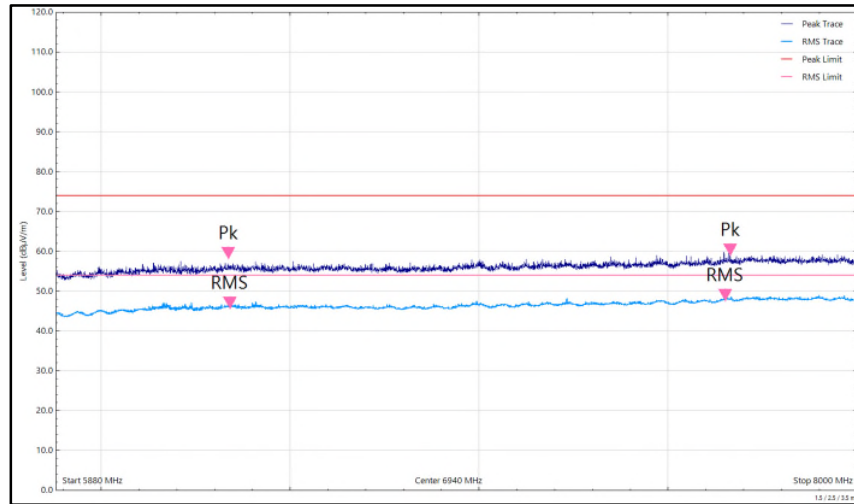
UNII 3 Ch 157, 1GHz to 5.150 GHz, Horizontal



UNII 3 Ch 157, 5.880GHz to 8GHz, Horizontal



UNII 3 Ch 157, 1GHz to 5.150 GHz, Vertical

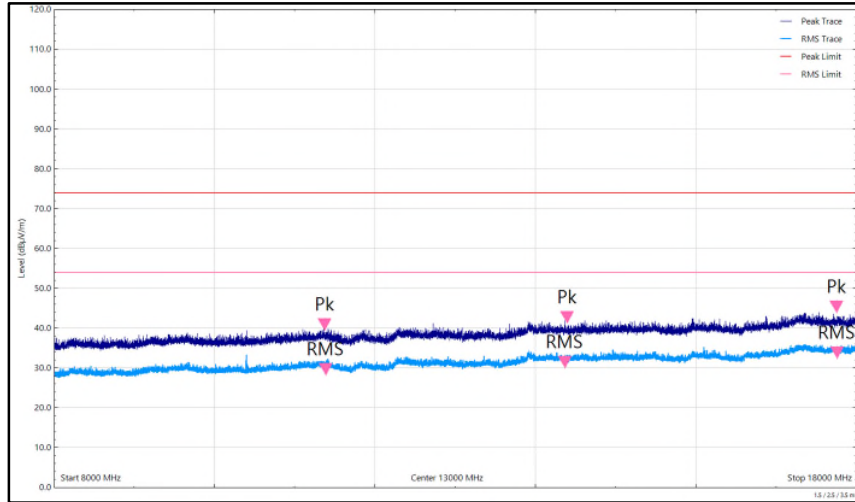


UNII 3 Ch 157, 5.880GHz to 8GHz, Vertical

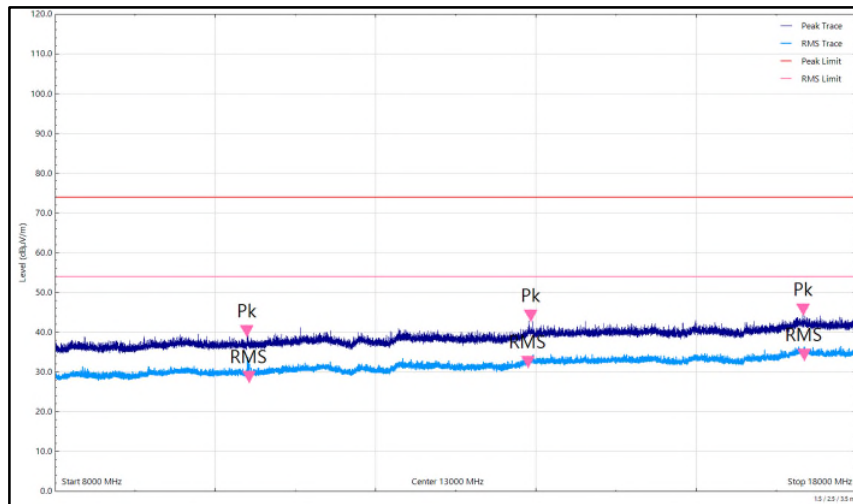
UNII 3 Ch 157, 1GHz to 8GHz Peak and RMS Data

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1708.388	50.27	74.00	-23.73	Peak	6	97	Horizontal
1747.027	38.61	54.00	-15.39	RMS	6	97	Horizontal
2402.041	51.52	74.00	-22.48	Peak	358	97	Vertical
2413.525	38.32	54.00	-15.68	RMS	358	97	Vertical
2425.878	53.10	74.00	-20.90	Peak	191	97	Horizontal
2446.110	38.30	54.00	-15.70	RMS	191	97	Horizontal
2669.904	50.22	74.00	-23.78	Peak	331	331	Vertical
2690.550	38.66	54.00	-15.34	RMS	331	331	Vertical
6336.740	57.62	74.00	-16.38	Peak	337	97	Vertical
6338.308	44.94	54.00	-9.06	RMS	359	97	Horizontal
6340.342	56.36	74.00	-17.64	Peak	359	97	Horizontal
6341.696	45.16	54.00	-8.84	RMS	337	97	Vertical
7651.677	47.07	54.00	-6.93	RMS	337	97	Vertical
7665.252	58.51	74.00	-15.49	Peak	337	97	Vertical
7705.834	58.55	74.00	-15.45	Peak	207	97	Horizontal
7714.941	47.20	54.00	-6.80	RMS	207	97	Horizontal

2.4.9 Test Results 8GHz to 18GHz



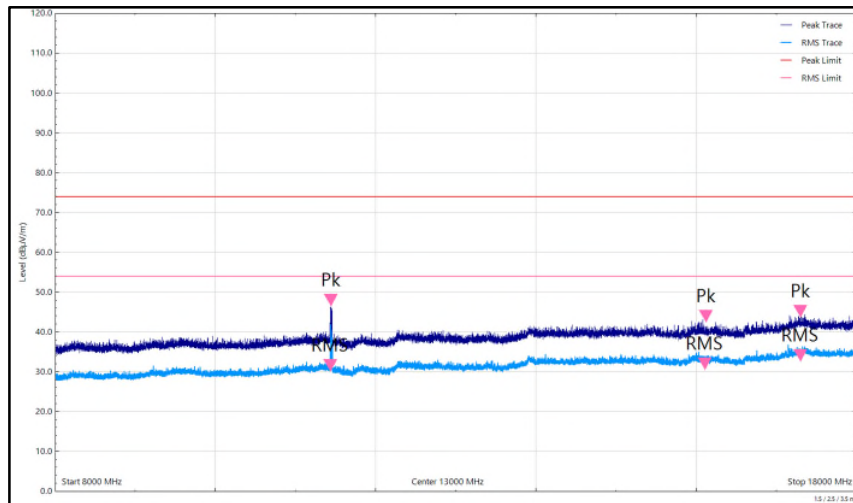
UNII 1 Ch 40, 8GHz to 18GHz, Horizontal



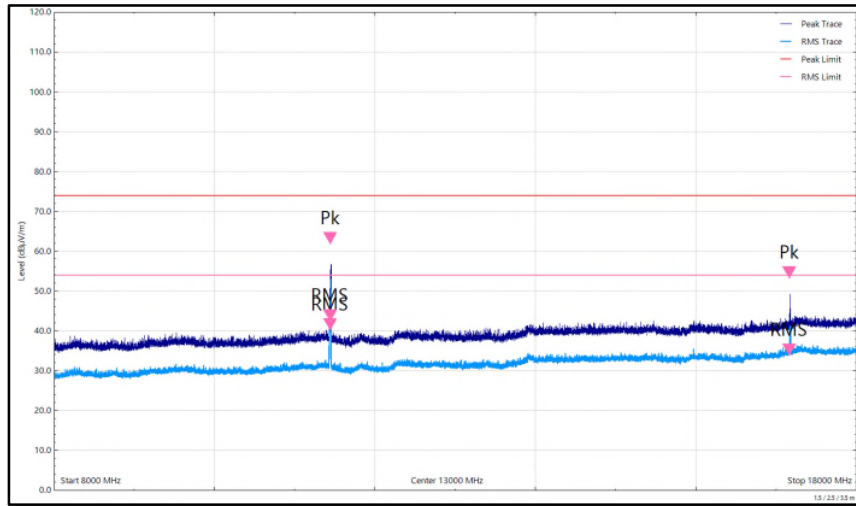
UNII 1 Ch 40, 8GHz to 18GHz, Vertical

UNII 1 Ch 40, 8GHz to 18GHz Peak and RMS Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11438.800	29.79	54.00	-24.21	RMS	193	97	Horizontal
11443.400	46.09	74.00	-27.91	Peak	193	97	Horizontal
11446.180	39.74	54.00	-14.26	RMS	343	97	Vertical
11446.200	41.99	54.00	-12.01	RMS	87	137	Vertical
11447.180	61.38	74.00	-12.62	Peak	343	97	Vertical
16109.570	30.20	54.00	-23.80	RMS	325	98	Horizontal
16127.750	42.09	74.00	-31.91	Peak	325	98	Horizontal
17168.700	33.34	54.00	-20.66	RMS	333	97	Vertical
17169.800	52.81	74.00	-21.19	Peak	333	97	Vertical
17303.650	32.31	54.00	-21.69	RMS	204	97	Horizontal
17307.140	43.30	74.00	-30.70	Peak	204	97	Horizontal
11438.800	29.79	54.00	-24.21	RMS	193	97	Horizontal



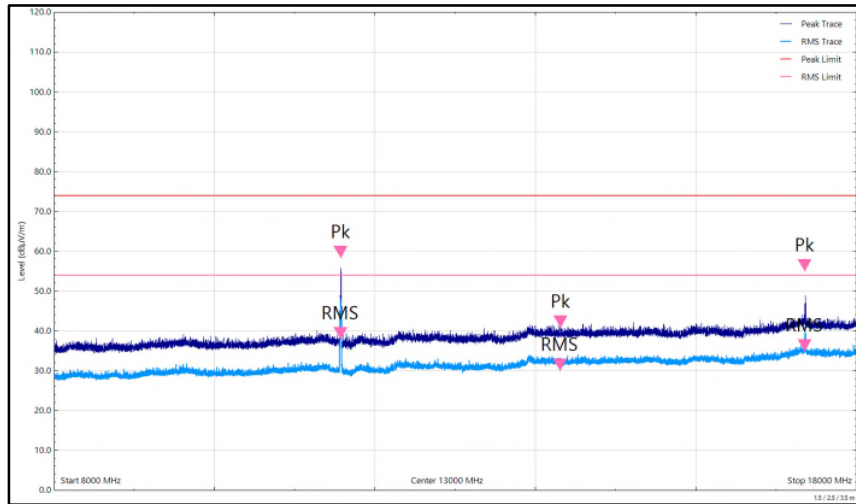
UNII 2 Ch 144, 8GHz to 18GHz, Horizontal



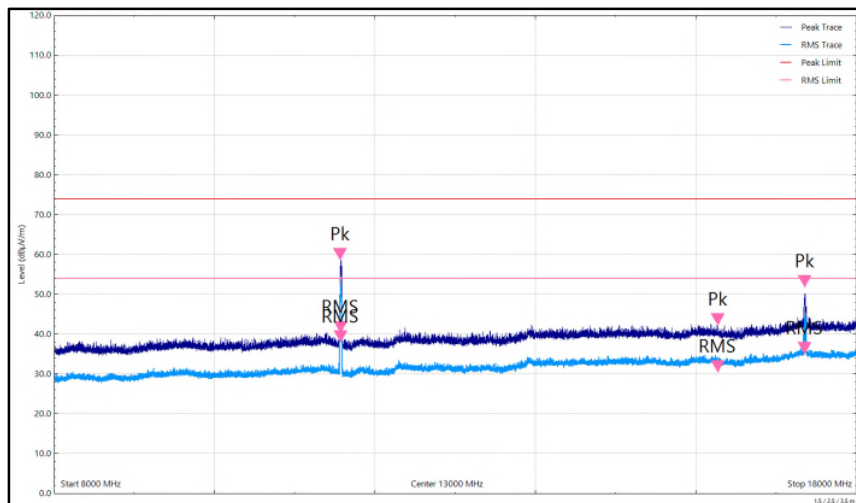
UNII 2 Ch 144, 8GHz to 18GHz, Vertical

UNII 2 Ch 144, 8GHz to 18GHz Peak and RMS Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11438.800	29.79	54.00	-24.21	RMS	193	97	Horizontal
11443.400	46.09	74.00	-27.91	Peak	193	97	Horizontal
11446.180	39.74	54.00	-14.26	RMS	343	97	Vertical
11446.200	41.99	54.00	-12.01	RMS	87	137	Vertical
11447.180	61.38	74.00	-12.62	Peak	343	97	Vertical
16109.570	30.20	54.00	-23.80	RMS	325	98	Horizontal
16127.750	42.09	74.00	-31.91	Peak	325	98	Horizontal
17168.700	33.34	54.00	-20.66	RMS	333	97	Vertical
17169.800	52.81	74.00	-21.19	Peak	333	97	Vertical
17303.650	32.31	54.00	-21.69	RMS	204	97	Horizontal
17307.140	43.30	74.00	-30.70	Peak	204	97	Horizontal



UNII 3 Ch 157, 8GHz to 18GHz, Horizontal

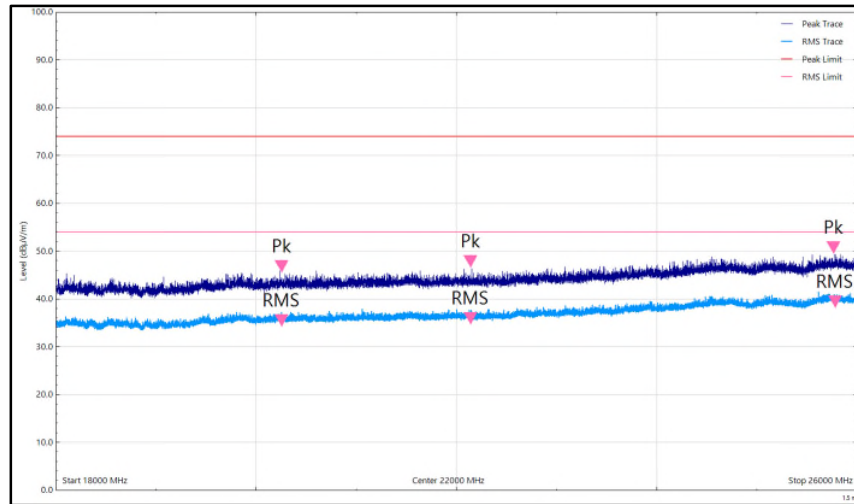


UNII 3 Ch 157, 8GHz to 18GHz, Vertical

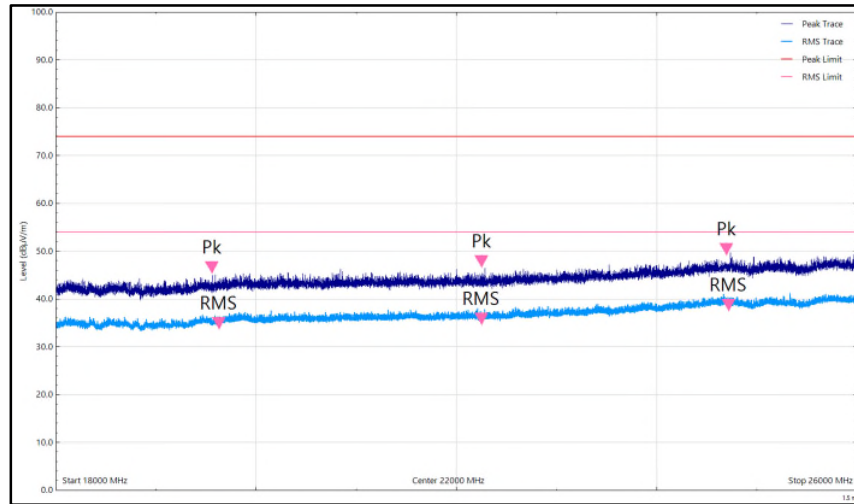
UNII 3 Ch 157, 8GHz to 18GHz Peak and RMS Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11569.710	58.16	74.00	-15.84	Peak	259	97	Vertical
11571.400	57.91	74.00	-16.09	Peak	333	97	Horizontal
11572.100	39.89	54.00	-14.11	RMS	147	97	Vertical
11572.400	37.55	54.00	-16.45	RMS	259	97	Vertical
11573.000	37.48	54.00	-16.52	RMS	333	97	Horizontal
14310.350	29.63	54.00	-24.37	RMS	335	97	Horizontal
14313.950	40.49	74.00	-33.51	Peak	335	97	Horizontal
16273.900	41.86	74.00	-32.14	Peak	208	97	Vertical
16277.490	30.01	54.00	-23.99	RMS	208	97	Vertical
17359.200	54.56	74.00	-19.44	Peak	338	97	Horizontal
17359.900	34.61	54.00	-19.39	RMS	333	100	Vertical
17359.900	34.46	54.00	-19.54	RMS	338	97	Horizontal
17360.800	51.33	74.00	-22.67	Peak	333	100	Vertical

2.4.10 Test Results 18GHz to 26GHz



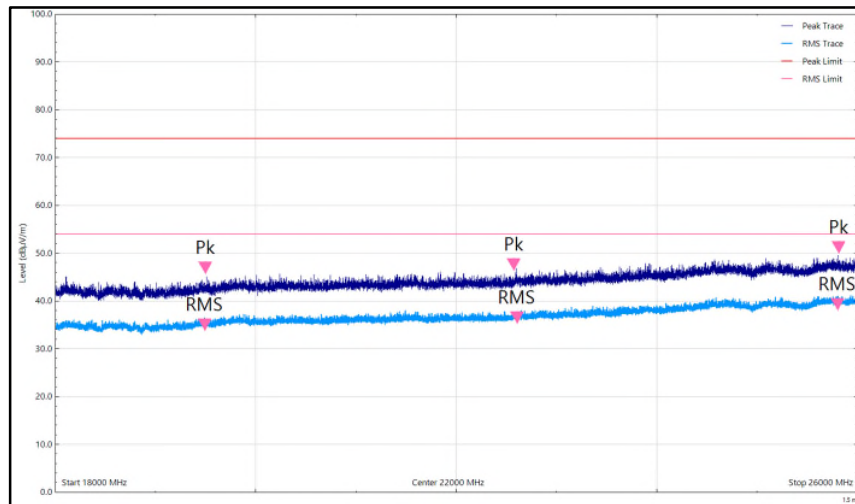
UNII 1 Ch 40, 18GHz to 26GHz, Horizontal



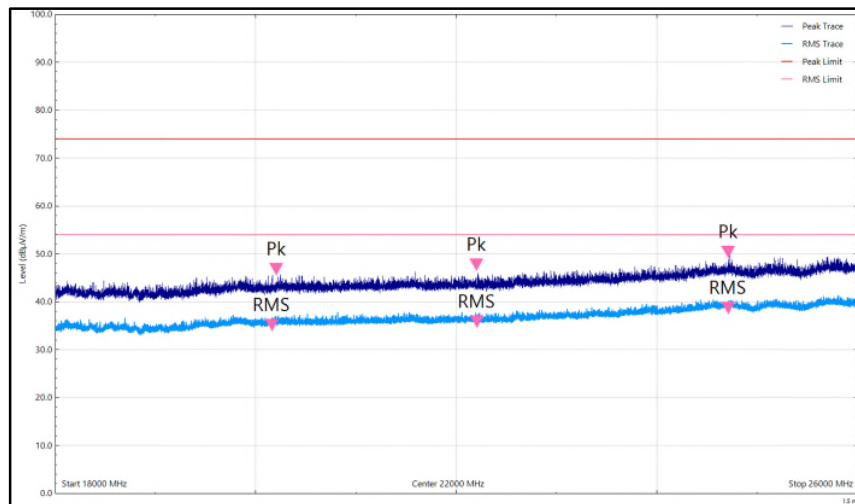
UNII 1 Ch 40, 18GHz to 26GHz, Vertical

UNII 1 Ch 40, 18GHz to 26GHz Peak and RMS Data

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
19561.208	45.00	74.00	-29.00	Peak	343	100	Vertical
19628.661	33.32	54.00	-20.68	RMS	343	100	Vertical
20254.982	45.24	74.00	-28.76	Peak	239	100	Horizontal
20259.058	33.92	54.00	-20.08	RMS	239	100	Horizontal
22141.024	46.33	74.00	-27.67	Peak	333	100	Horizontal
22141.424	34.41	54.00	-19.59	RMS	333	100	Horizontal
22251.969	46.33	74.00	-27.67	Peak	55	100	Vertical
22254.206	34.31	54.00	-19.69	RMS	55	100	Vertical
24698.796	48.89	74.00	-25.11	Peak	179	100	Vertical
24721.653	37.22	54.00	-16.78	RMS	179	100	Vertical
25768.397	49.18	74.00	-24.82	Peak	195	100	Horizontal
25783.742	37.82	54.00	-16.18	RMS	195	100	Horizontal



UNII 2 Ch 144, 18GHz to 26GHz, Horizontal

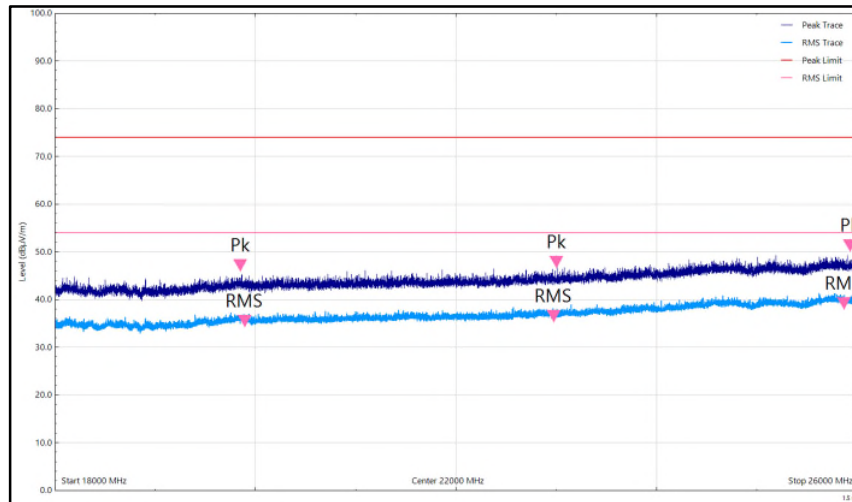


UNII 2 Ch 144, 18GHz to 26GHz, Vertical

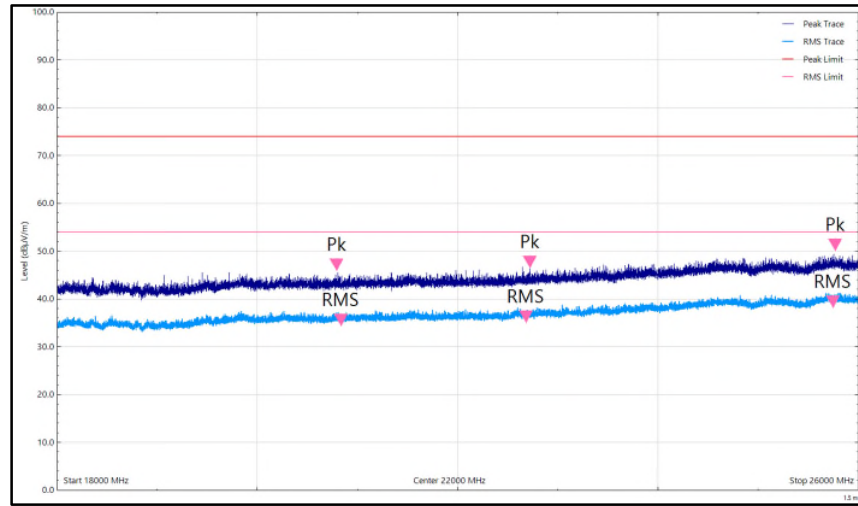


UNII 2 Ch 144, 18GHz to 26GHz Peak and RMS Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
19496.311	33.48	54.00	-20.52	RMS	352	100	Horizontal
19497.350	45.42	74.00	-28.58	Peak	352	100	Horizontal
20164.463	33.64	54.00	-20.36	RMS	165	100	Vertical
20205.622	45.28	74.00	-28.72	Peak	165	100	Vertical
22205.551	46.18	74.00	-27.82	Peak	6	100	Vertical
22206.110	34.30	54.00	-19.70	RMS	6	100	Vertical
22573.948	46.02	74.00	-27.98	Peak	33	100	Horizontal
22608.074	34.96	54.00	-19.04	RMS	33	100	Horizontal
24713.555	37.16	54.00	-16.84	RMS	162	100	Vertical
24714.434	48.84	74.00	-25.16	Peak	162	100	Vertical
25805.984	37.77	54.00	-16.23	RMS	337	100	Horizontal
25814.135	49.60	74.00	-24.40	Peak	337	100	Horizontal



UNII 3 Ch 157, 18GHz to 26GHz, Horizontal

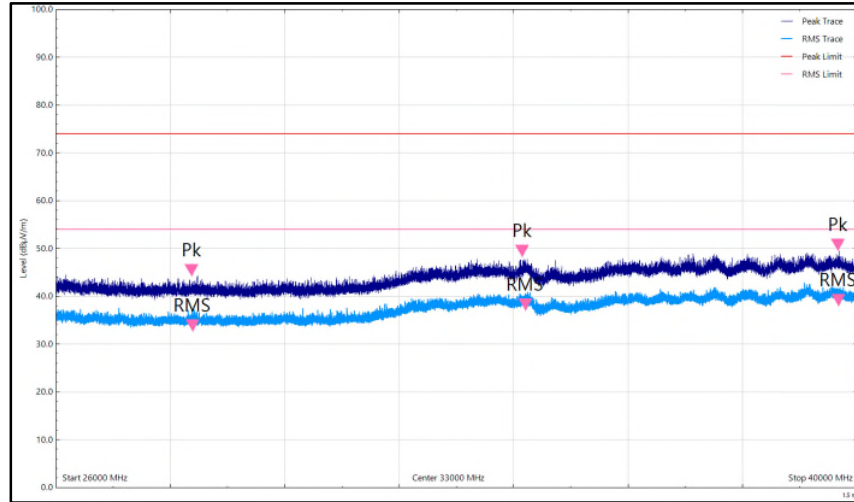


UNII 3 Ch 157, 18GHz to 26GHz, Vertical

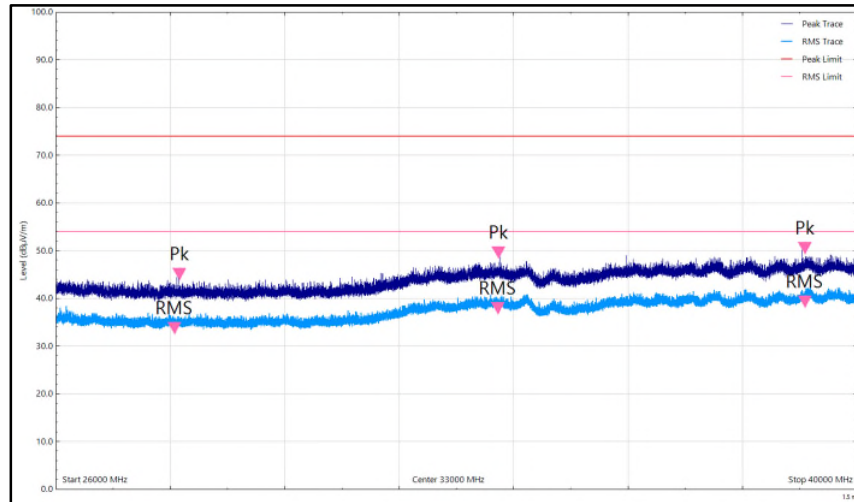
UNII 3 Ch 157, 18GHz to 26GHz Peak and RMS Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
19848.490	45.63	74.00	-28.37	Peak	333	100	Horizontal
19892.046	33.97	54.00	-20.03	RMS	333	100	Horizontal
20796.244	45.65	74.00	-28.35	Peak	333	100	Vertical
20838.202	34.03	54.00	-19.97	RMS	333	100	Vertical
22684.552	34.69	54.00	-19.31	RMS	328	100	Vertical
22726.271	46.21	74.00	-27.79	Peak	328	100	Vertical
22977.307	34.98	54.00	-19.02	RMS	289	100	Horizontal
23000.963	46.26	74.00	-27.74	Peak	289	100	Horizontal
25750.264	37.87	54.00	-16.13	RMS	308	100	Vertical
25773.281	49.72	74.00	-24.28	Peak	308	100	Vertical
25870.550	37.62	54.00	-16.38	RMS	253	100	Horizontal
25934.167	49.77	74.00	-24.23	Peak	253	100	Horizontal

2.4.11 Test Results 26GHz to 40GHz



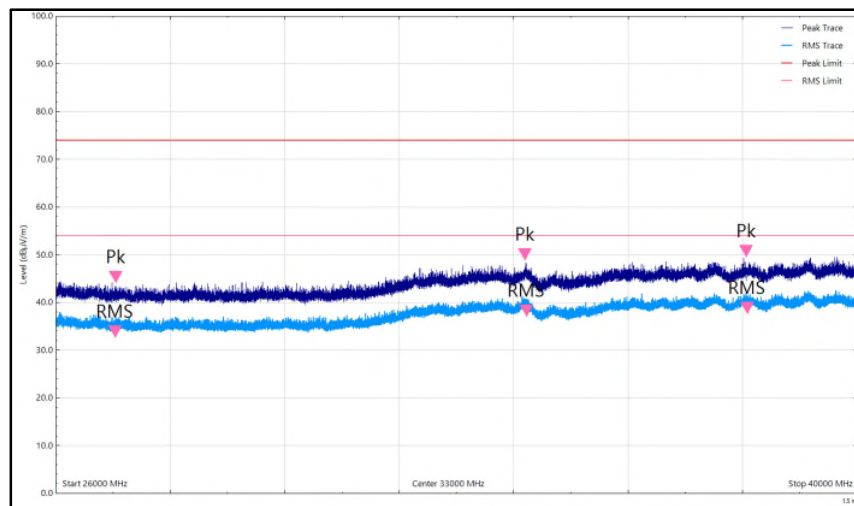
UNII 1 Ch 40, 26GHz to 40GHz, Horizontal



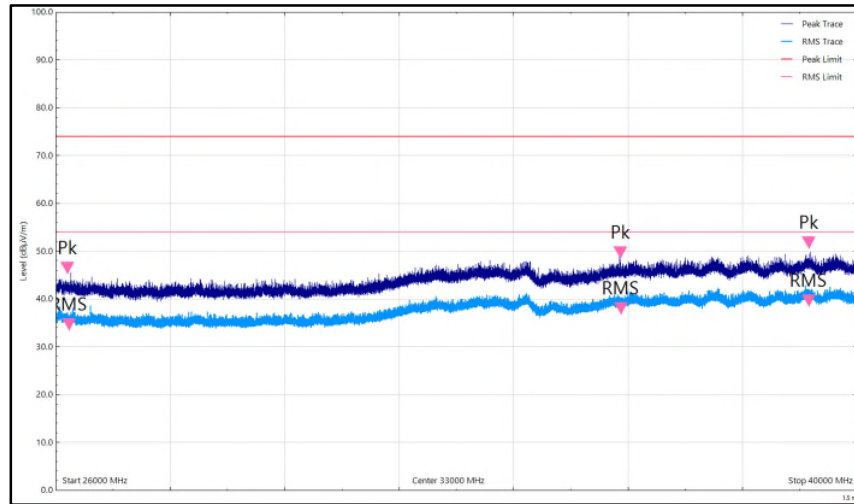
UNII 1 Ch 40, 26GHz to 40GHz, Vertical

UNII 1 Ch 40, 26GHz to 40GHz Peak and RMS Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
28080.250	32.16	54.00	-21.84	RMS	333	100	Vertical
28162.210	43.58	74.00	-30.42	Peak	333	100	Vertical
28374.860	43.86	74.00	-30.14	Peak	333	100	Horizontal
28389.690	32.27	54.00	-21.73	RMS	333	100	Horizontal
33726.820	36.32	54.00	-17.68	RMS	98	100	Vertical
33737.450	47.99	74.00	-26.01	Peak	98	100	Vertical
34149.410	47.87	74.00	-26.13	Peak	221	100	Horizontal
34208.850	36.71	54.00	-17.29	RMS	221	100	Horizontal
39095.980	37.79	54.00	-16.21	RMS	57	100	Vertical
39097.370	48.92	74.00	-25.08	Peak	57	100	Vertical
39667.280	49.15	74.00	-24.85	Peak	90	100	Horizontal
39675.810	37.64	54.00	-16.36	RMS	90	100	Horizontal



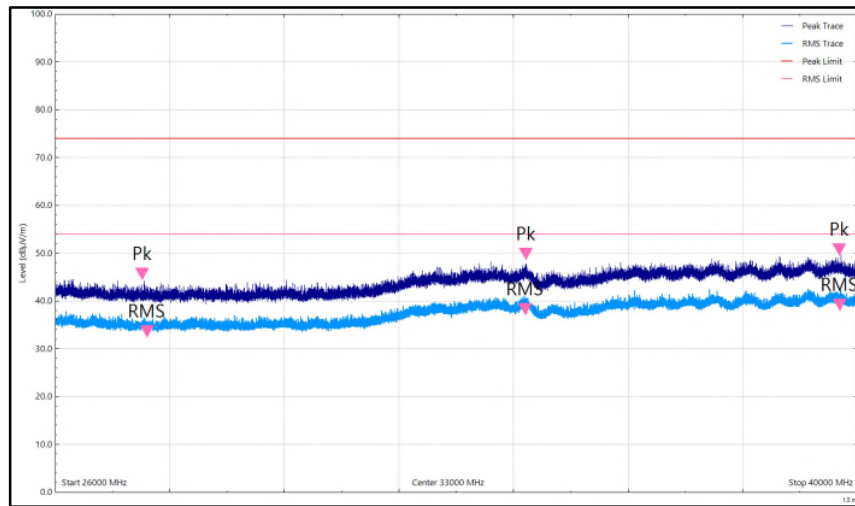
UNII 2 Ch 144, 26GHz to 40GHz, Horizontal



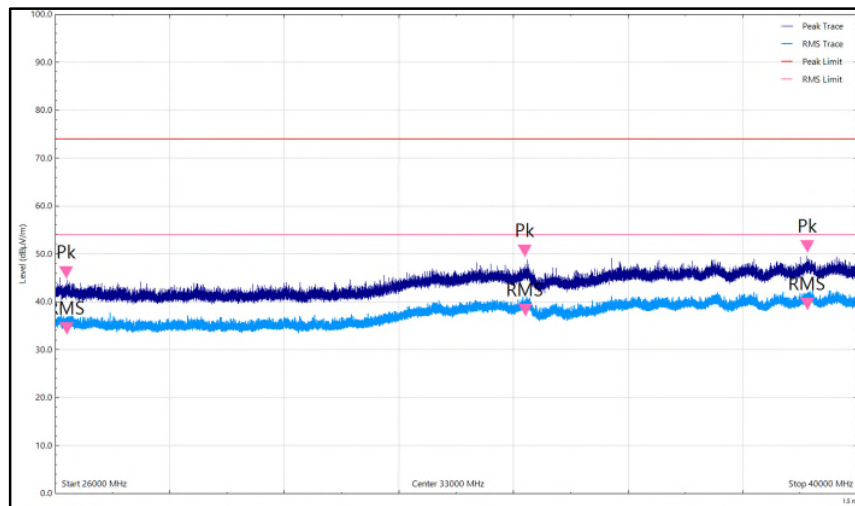
UNII 2 Ch 144, 26GHz to 40GHz, Vertical

UNII 2 Ch 144, 26GHz to 40GHz Peak and RMS Data

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
26205.000	44.90	74.00	-29.10	Peak	7	100	Vertical
26237.580	33.12	54.00	-20.88	RMS	7	100	Vertical
27039.960	32.33	54.00	-21.67	RMS	72	100	Horizontal
27049.750	43.81	74.00	-30.19	Peak	72	100	Horizontal
34195.630	48.51	74.00	-25.49	Peak	157	100	Horizontal
34229.900	36.71	54.00	-17.29	RMS	157	100	Horizontal
35865.480	48.20	74.00	-25.80	Peak	226	100	Vertical
35881.280	36.48	54.00	-17.52	RMS	226	100	Vertical
38062.340	49.17	74.00	-24.83	Peak	333	100	Horizontal
38083.730	37.29	54.00	-16.71	RMS	333	100	Horizontal
39158.520	38.12	54.00	-15.88	RMS	217	100	Vertical
39161.460	50.18	74.00	-23.82	Peak	217	100	Vertical



UNII 3 Ch 157, 26GHz to 40GHz, Horizontal



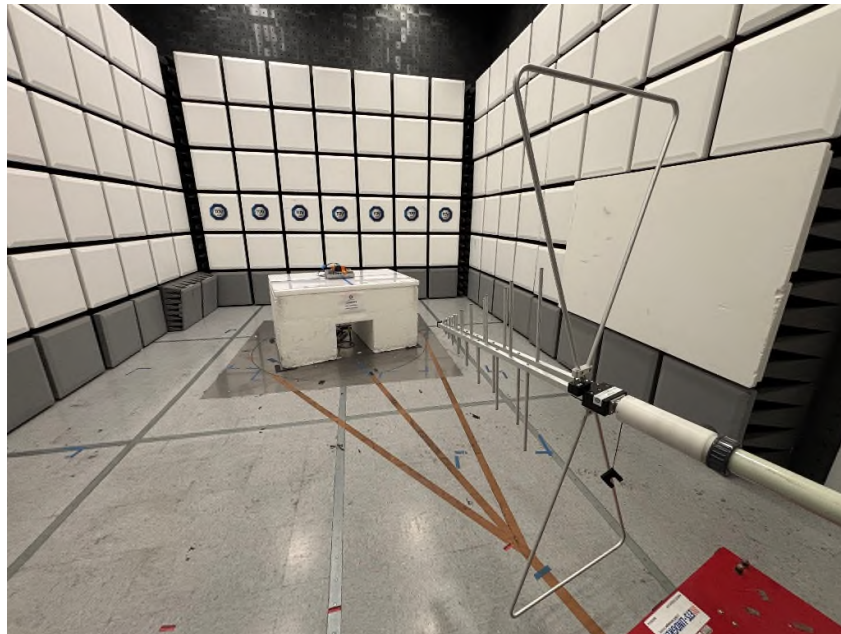
UNII 3 Ch 157, 26GHz to 40GHz, Vertical



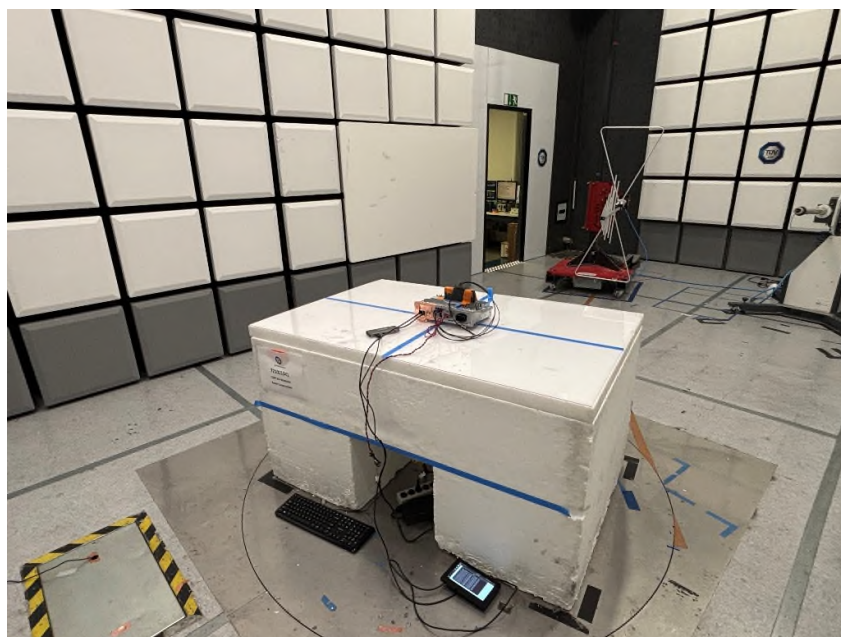
UNII 3 Ch 157, 26GHz to 40GHz Peak and RMS Data

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
26196.850	44.57	74.00	-29.43	Peak	347	100	Vertical
26210.970	32.87	54.00	-21.13	RMS	347	100	Vertical
27522.930	44.07	74.00	-29.93	Peak	224	100	Horizontal
27603.070	32.07	54.00	-21.93	RMS	224	100	Horizontal
34200.470	49.09	74.00	-24.91	Peak	335	100	Vertical
34212.350	36.68	54.00	-17.32	RMS	228	100	Horizontal
34213.060	36.65	54.00	-17.35	RMS	335	100	Vertical
34221.020	48.21	74.00	-25.79	Peak	228	100	Horizontal
39127.920	49.98	74.00	-24.02	Peak	273	100	Vertical
39132.390	38.01	54.00	-15.99	RMS	273	100	Vertical
39689.180	49.15	74.00	-24.85	Peak	333	100	Horizontal
39697.570	37.67	54.00	-16.33	RMS	333	100	Horizontal

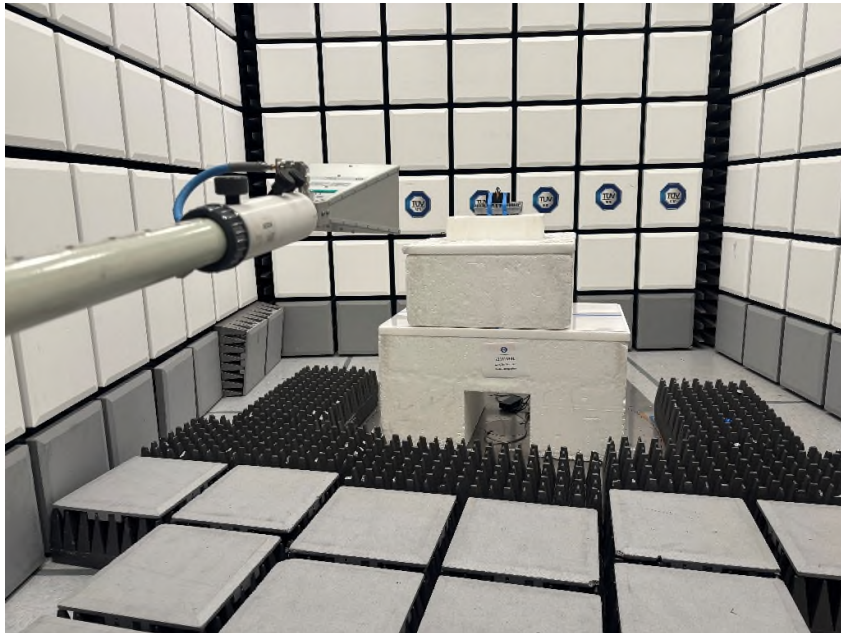
2.4.12 Test Setup Photos



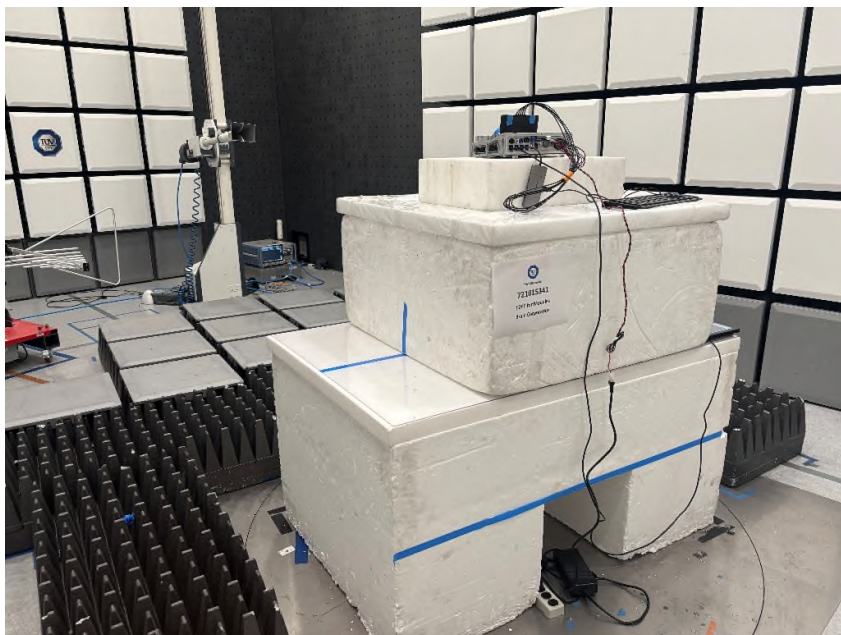
Radiated Emissions 30MHz to 1GHz Front View



Radiated Emissions 30MHz to 1GHz Back View



Radiated Emissions 1GHz to 8GHz Front View



Radiated Emissions 1GHz to 8GHz Back View



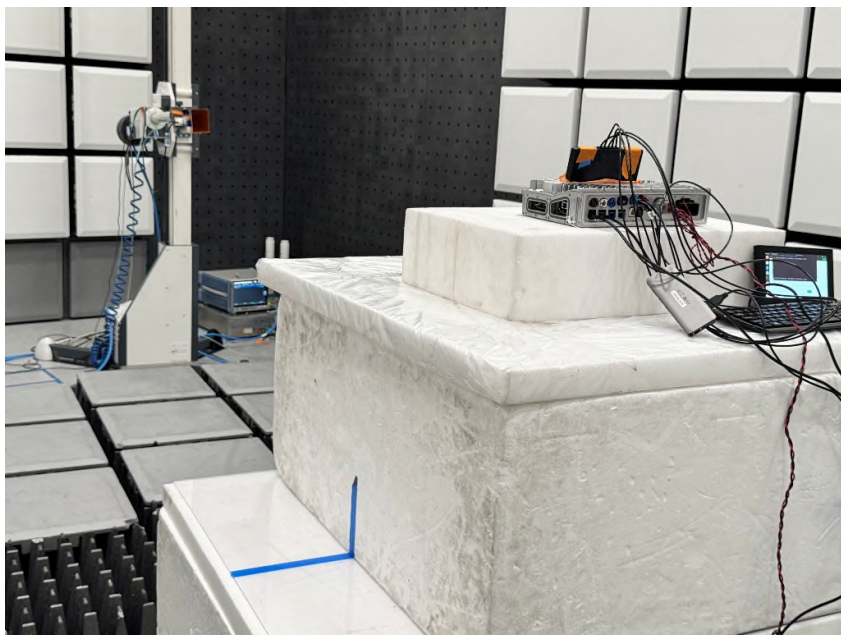
Radiated Emissions 8GHz to 18GHz Front View



Radiated Emissions 8GHz to 18GHz Back View



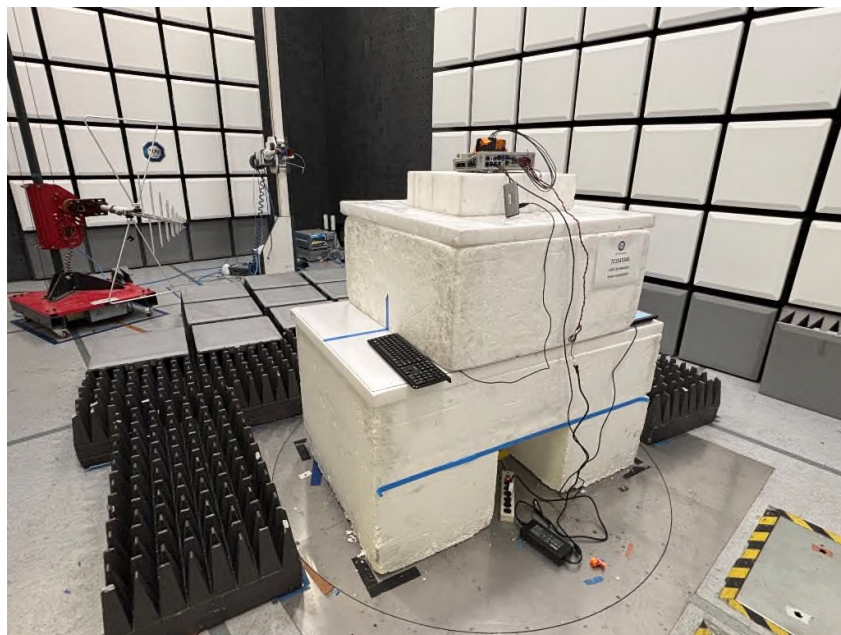
Radiated Emissions 18GHz to 26GHz Front View



Radiated Emissions 18GHz to 26GHz Back View



Radiated Emissions 26GHz to 40GHz Front View



Radiated Emissions 26GHz to 40GHz Back View



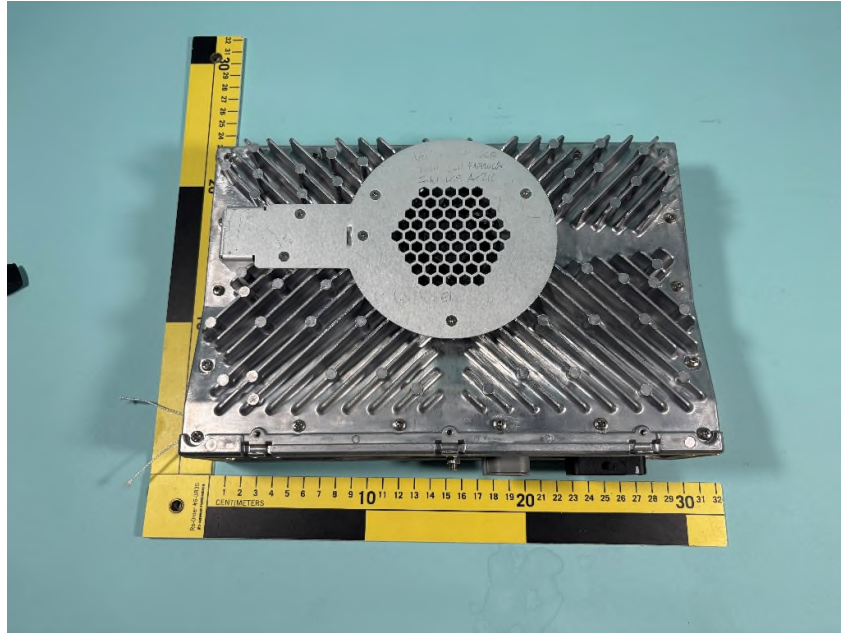
2.4.13 Test Location and Test Equipment Used

This test was carried out in SR-5

Instrument	Manufacturer	Type No	TE No	Calibration Period (Months)	Calibration Expires
Trilog Broadband Antenna	Schwarzbeck Mess-Elektronik	VULB 9168	69564	12	06-11-2026
7.5-18 GHz Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik	HWRD 750	69562	12	06-11-2026
1-10GHz Broad-Band Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9120 B	69563	12	06-11-2026
TUVSSU 010 PLC US	TUV SUD UK	TUVSSU 010 PLC US	74136	12	06-15-2026
18-26GHz Antenna	Custom Microwave, Inc.	HO42S	30572	12	06-11-2026
ESW44 EMI Test Receiver	Rohde & Schwarz	ESW44 with HF Option	68210	12	29-06-2026
7GHz to 18GHz PreAmp	Ciao Wireless	CA718-403015N-FM	78961	12	06-11-2026
18-26GHz Antenna	Custom Microwave Inc.	HO42S	30572	12	09-16-2026
26-40GHz Antenna	Custom Microwave Inc	HO28S	30573	12	09-16-2026
18-40GHz LNA	Spacek Labs	SLKKa-30-6	40815	12	11-03-2026

3 Photographs

3.1 Equipment Under Test (EUT)





4 Test Equipment Information

4.1 General Test Equipment Used

Miscellaneous					
30215	Temp, Humidity and Barometric Sensor	iBTHX-W	15050268	Omega	05-22-2026
N/A	EMX Test Software	N/A	N/A	TUV SUD UK	N/A

4.2 Customer Support Equipment

Support Equipment					
N/A	Wireless Router	AX6000	N/A	GL - iNet	N/A



5 Measurement Uncertainty

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

Test Name	Measurement Uncertainty
AC Power Line Conducted Emissions	150 kHz to 30 MHz, LISN, ± 3.7 dB
Authorised Band Edges	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB
Spurious Radiated Emissions	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB

Table 7

Measurement Uncertainty Decision Rule

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

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