

FCC and ISED Test Report

Apple Inc
Model: A3426



In accordance with FCC 47 CFR Part 15B,
ICES-003 and ISED RSS-GEN

Prepared for: Apple Inc
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Document 75963990-53 Issue 02



SIGNATURE

Andrew Lawson

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Andrew Lawson	Chief Engineer	Authorised Signatory	01 February 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 15B and ICES-003 and ISED RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Sreemon Jayachandran Nair	01 February 2026	<i>Sreemon Jayachandran Nair</i>

FCC Accreditation

492497/UK2010 Octagon House, Fareham Test Laboratory

ISED Accreditation

12669A/UK0003 Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15B, ICES-003 and ISED RSS-GEN: 2024, Issue 7: 2020 and Issue 5 and A2 (2021-02) 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
1	First Issue	07-January-2026
2	Corrected model number	01-February-2026

Table 1

1.2 Introduction

Applicant	Apple Inc
Manufacturer	Apple Inc
EUT/Sample Identification	Refer to section 1.6
Test Specification/Issue/Date	FCC 47 CFR Part 15B: 2024 ICES-003, Issue 7: 2020 ISED RSS-GEN, Issue 5, A2 (2021-02)
Start of Test	01-December-2025
Finish of Test	04-December-2025
Name of Engineer(s)	Sreemon Jayachandran Nair
Related Document(s)	ANSI C63.4: 2014



1.3 Brief

A brief carried out in accordance with FCC 47 CFR Part 15B, and ICES-003 and ISED RSS-GEN is shown below.

Summary of Results

summary of the tests

Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: AC Powered - Transmitter Idle				
2.1	15.107, 3.2.1 and 4.4	Conducted Emissions, AC Power Port	Pass	ANSI C63.4: 2014
2.2	15.109, 3.2.2 and 4.4	Radiated Emissions	Pass	ANSI C63.4: 2014

Table 2

1.4 Product Information

1.4.1 Technical Description

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

1.4.2 EUT Port/Cable Identification

Port	Max Cable Length specified	Usage	Type	Screened
Configuration and Mode: AC Powered - Transmitters Idle				
AC Power Port	2 m	Main Power	AC to DC Power Adapter with USB-C output.	No
USB Port 1	1.5 m	Power/Data	USB Type-C	Yes
USB Port 2	1.5 m	Power/Data	USB Type-C	Yes
USB Port 3	1.5 m	Power/Data	USB Type-C	Yes
HDMI Port	1.5 m	Display out.	HDMI	No
Audio Jack Port	1 m	Analogue Audio Output	3.5 mm Jack	No

Table 3

1.4.3 Test Configuration

Configuration	Description
AC Powered	The EUT was powered from a 115 V 60 Hz AC supply using an AC to DC adapter with USB-C output and MagSafe cable. PSU Model: A2166. The EUT had the following connections made: • A keyboard was used to terminate USB Port 1. • USB Port 2 was unterminated. • USB Port 3 was unterminated. • A set of headphones were used to terminate the Audio Jack Port. • A monitor was used to terminate the HDMI port.

Table 4

1.4.4 Modes of Operation

Mode	Description
Transmitter Idle	The EUT was powered with all internal transmitters disabled.

Table 5

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.

Serial Number	Hardware Version	Software Version
F6D37HTCN9	REV1.0	25D53

Table 6

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: A3426, Serial Number: F6D37HTCN9			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 7

1.8 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: AC Powered - Transmitter Idle		
Conducted Emissions, AC Power Port	Sreemon Jayachandran Nair	UKAS
Radiated Emissions	Sreemon Jayachandran Nair	UKAS

Table 8

Office Address:

TÜV SÜD
Octagon House
Concorde Way
Fareham
Hampshire
PO15 5RL
United Kingdom

2 Test Details

2.1 Conducted Emissions, AC Power Port

2.1.1 Specification Reference

FCC 47 CFR Part 15B, ICES-003 and ISSED RSS-GEN, Clause 15.107, 3.2.1 and 4.4

2.1.2 Equipment Under Test and Modification State

A3426, S/N: F6D37HTCN9 - Modification State 0

2.1.3 Date of Test

01-December-2025

2.1.4 Test Method

The EUT was setup according to ANSI C63.4, clause 5.2.

The EUT was placed on a non-conductive table 0.8 m above a reference ground plane. A vertical coupling plane was placed 0.4 m from the EUT boundary

A Line Impedance Stabilisation Network (LISN) was directly bonded to the ground-plane. The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN was 0.8 m.

Interconnecting cables that hanged closer than 0.4 m to the ground plane were folded back and forth in the centre forming a bundle 0.3 m to 0.4 m long.

Input and output cables were terminated with equipment or loads representative of real usage conditions.

The EUT was configured to give the highest level of emissions within reason of a typical installation as described by the manufacturer.

A Peak detector pre-scan of the EUT emissions profile was measured across the appropriate frequency range.

Where all pre-scan peak emissions measured were greater than 20 dB below the CISPR Average test limit, no final measurements were made in accordance with ANSI C63.4.

Where any pre-scan peak emissions were within 20 dB of the CISPR Average test limit, the six highest pre-scan emissions seen across the frequency range were measured for at least 15 seconds using a Peak, Quasi-Peak or CISPR Average detector as appropriate to the test limit being measured against.

2.1.5 Example Calculation

Quasi-Peak level (dB μ V) = Receiver level (dB μ V) + Correction Factor (dB)
Margin (dB) = Quasi-Peak level (dB μ V) - Limit (dB μ V)

CISPR Average level (dB μ V) = Receiver level (dB μ V) + Correction Factor (dB)
Margin (dB) = CISPR Average level (dB μ V) - Limit (dB μ V)



2.1.6 Example Test Setup Diagram

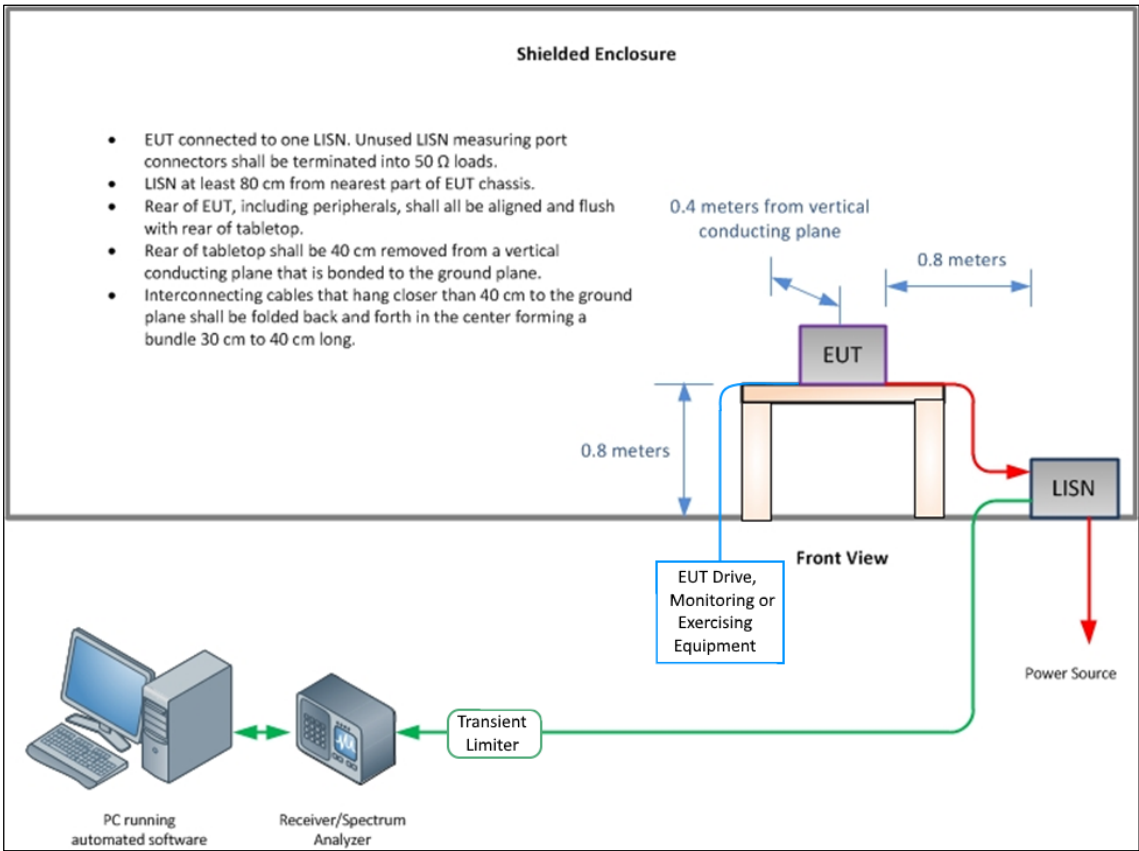


Figure 1 - Conducted Emissions Example Test Setup

2.1.7 Environmental Conditions

Ambient Temperature 19.5 °C
Relative Humidity 45.3 %
Atmospheric Pressure 1005.0 mbar

2.1.8 Specification Limits

Required Specification Limits - Class B			
Line Under Test	Frequency Range (MHz)	Quasi-Peak Test Limit (dBμV)	CISPR Average Test Limit (dBμV)
AC Power Port	0.15 to 0.5	66 to 56 ⁽¹⁾	56 to 46 ⁽¹⁾
	0.5 to 5	56	46
	5 to 30	60	50
Supplementary information: Note 1. Decreases with the logarithm of the frequency.			

Table 9

2.1.9 Test Results

Results for Configuration and Mode: AC Powered - Transmitter Idle.

This test was performed to the requirements of the Class B limits.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

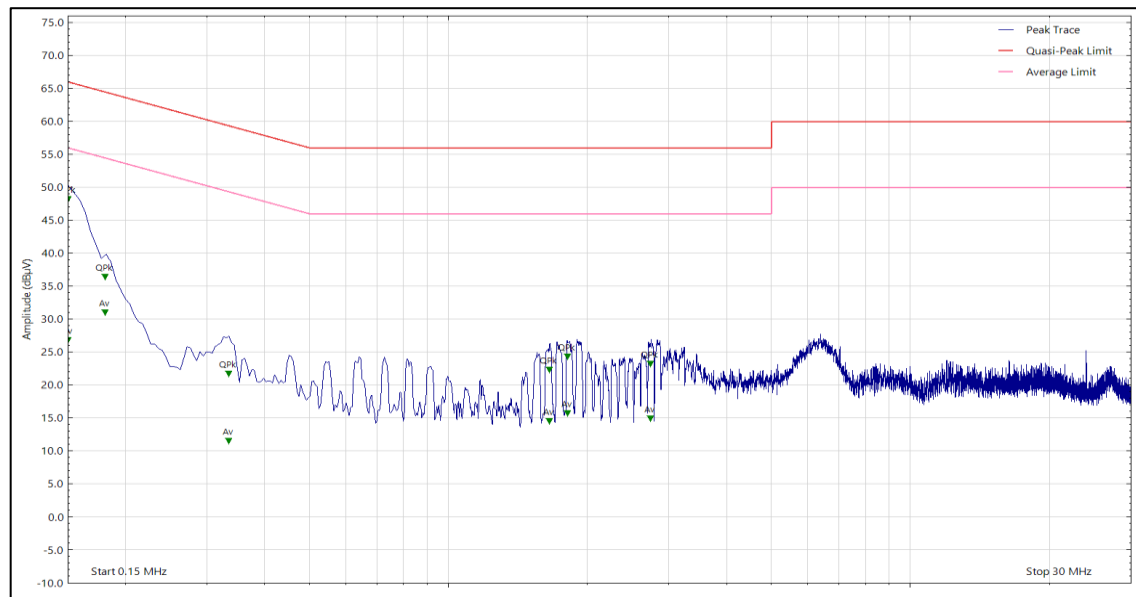


Figure 2 - Graphical Results - AC power port - Live

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	47.51	66.00	-18.49	Q-Peak
0.150	26.12	56.00	-29.88	CISPR Avg
0.181	35.73	64.40	-28.67	Q-Peak
0.181	30.26	54.40	-24.14	CISPR Avg
0.335	21.04	59.30	-38.26	Q-Peak
0.335	10.82	49.30	-38.48	CISPR Avg
1.653	21.59	56.00	-34.41	Q-Peak
1.653	13.79	46.00	-32.21	CISPR Avg
1.809	23.63	56.00	-32.37	Q-Peak
1.809	15.03	46.00	-30.97	CISPR Avg
2.739	22.56	56.00	-33.44	Q-Peak
2.739	14.21	46.00	-31.79	CISPR Avg

Table 10

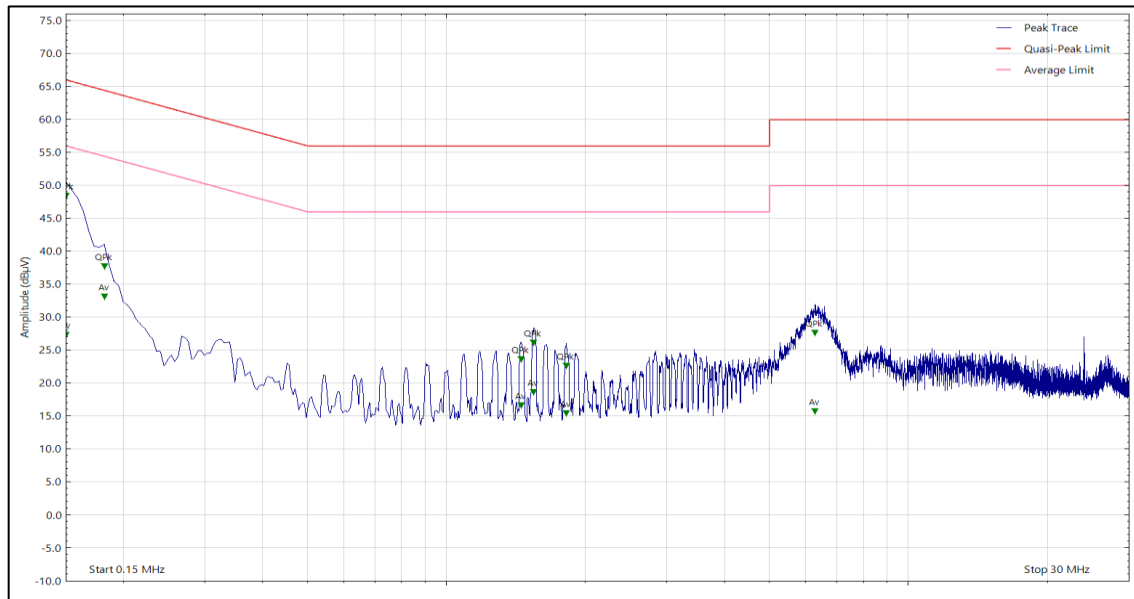


Figure 3 - Graphical Results - AC power port - Neutral

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	47.72	66.00	-18.28	Q-Peak
0.150	26.57	56.00	-29.43	CISPR Avg
0.182	37.03	64.40	-27.37	Q-Peak
0.182	32.41	54.40	-21.99	CISPR Avg
1.455	22.91	56.00	-33.09	Q-Peak
1.455	15.87	46.00	-30.13	CISPR Avg
1.547	25.43	56.00	-30.57	Q-Peak
1.547	17.91	46.00	-28.09	CISPR Avg
1.817	21.88	56.00	-34.12	Q-Peak
1.817	14.71	46.00	-31.29	CISPR Avg
6.280	26.95	60.00	-33.05	Q-Peak
6.280	15.00	50.00	-35.00	CISPR Avg

Table 11



2.1.10 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 12.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
3m Semi-Anechoic Chamber	MVG	EMC Chamber 12	5621	36	07-Aug-2026
Emissions Software	TUV SUD	EmX V3.5.5	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5382	12	09-Oct-2026
Transient Limiter	Hewlett Packard	11947A	1032	12	16-Jan-2026
Cable (N-Type to N-Type, 2 m)	Teledyne	269-0078-2000	3325	12	12-Sep-2026
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/B	7054	12	01-Jun-2026
LISN (CISPR 16, Single Phase)	Rohde & Schwarz	ESH3-Z5	1390	12	04-Feb-2026
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5471	12	14-May-2026

Table 12

2.2 Radiated Emissions

2.2.1 Specification Reference

FCC 47 CFR Part 15B, ICES-003 and ISSED RSS-GEN, Clause 15.109, 3.2.2 and 4.4

2.2.2 Equipment Under Test and Modification State

A3426, S/N: F6D37HTCN9 - Modification State 0

2.2.3 Date of Test

01-December-2025 to 04-December-2025

2.2.4 Test Method

The EUT was set up in a semi-anechoic chamber in the centre of a remotely controlled turntable and placed on a non-conductive table 0.8 m above a reference ground plane

A Peak detector pre-scan of the EUT emissions profile was measured across the appropriate frequency range while varying the antenna-to-EUT azimuth and polarisation. Measurements were made using a 3 m distance between the declared antenna measurement point and the EUT.

Where all pre-scan peak emissions measured were greater than 20 dB below the test limit, no final measurements were made in accordance with ANSI C63.4.

Where any pre-scan peak emissions were within 20 dB of the test limit, the six highest pre-scan peak emissions seen across the frequency range were maximised by adjusting antenna height, polarisation and angle and then measured for at least 15 seconds using a Peak, Quasi-Peak or CISPR Average detector as appropriate to the test limit being measured against.

2.2.5 Example Calculation

Below 1 GHz:

Quasi-Peak level (dB μ V/m) = Receiver level (dB μ V) + Correction Factor (dB/m)
Margin (dB) = Quasi-Peak level (dB μ V/m) - Limit (dB μ V/m)

Above 1 GHz:

CISPR Average level (dB μ V/m) = Receiver level (dB μ V) + Correction Factor (dB/m)
Margin (dB) = CISPR Average level (dB μ V/m) - Limit (dB μ V/m)

Peak level (dB μ V/m) = Receiver level (dB μ V) + Correction Factor (dB/m)
Margin (dB) = Peak level (dB μ V/m) - Limit (dB μ V/m)

2.2.6 Example Test Setup Diagram

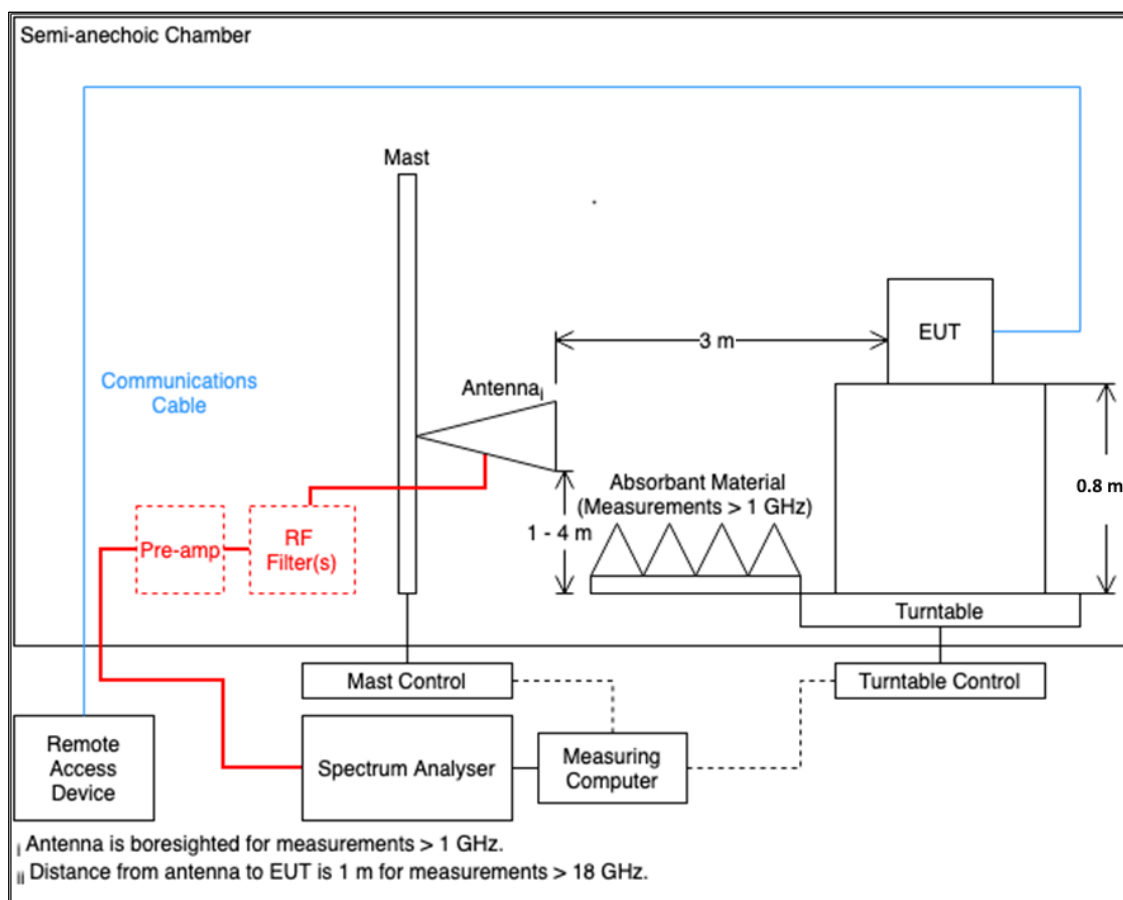


Figure 4 - Radiated Emissions Example Test Setup

2.2.7 Environmental Conditions

Ambient Temperature	22.5 °C
Relative Humidity	34.7 %
Atmospheric Pressure	998.0 mbar

2.2.8 Specification Limits

Required Specification Limits, Field Strength - Class B Test Limit at a 3 m Measurement Distance		
Frequency Range (MHz)	Test Limit ($\mu\text{V/m}$)	Test Limit ($\text{dB}\mu\text{V/m}$)
30 to 88	100	40.0
88 to 216	150	43.5
216 to 960	200	46.0
Above 960	500	54.0

Supplementary information:
 Note 1. A Quasi-peak detector is to be used for measurements below 1 GHz.
 Note 2. A CISPR Average detector is to be used for measurements above 1 GHz.
 Note 3. The Peak test limit above 1 GHz is 20 dB higher than the CISPR Average test limit.

Table 13

2.2.9 Test Results

Results for Configuration and Mode: AC Powered - Transmitter Idle.

This test was performed to the requirements of Class B limits.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Highest internally generated frequency within the EUT: 6 GHz
Which necessitates an upper frequency test limit of: 30 GHz

Applied Supply Voltage: 115 V AC
Applied Supply Frequency: 60 Hz

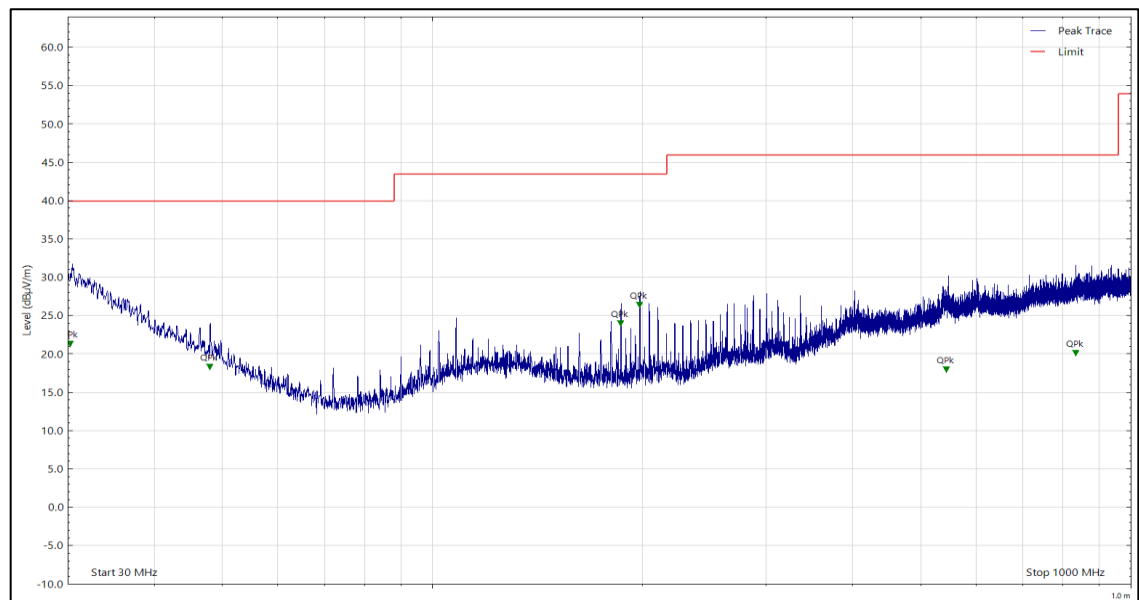


Figure 5 - 30 MHz to 1 GHz, Quasi-Peak, Horizontal

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.243	20.74	40.00	-19.26	Q-Peak	81	113	Horizontal
47.976	17.74	40.00	-22.26	Q-Peak	0	100	Horizontal
186.052	23.40	43.50	-20.10	Q-Peak	282	110	Horizontal
198.006	25.77	43.50	-17.73	Q-Peak	289	108	Horizontal
543.943	17.34	46.00	-28.66	Q-Peak	86	109	Horizontal
833.408	19.54	46.00	-26.46	Q-Peak	143	100	Horizontal

Table 14

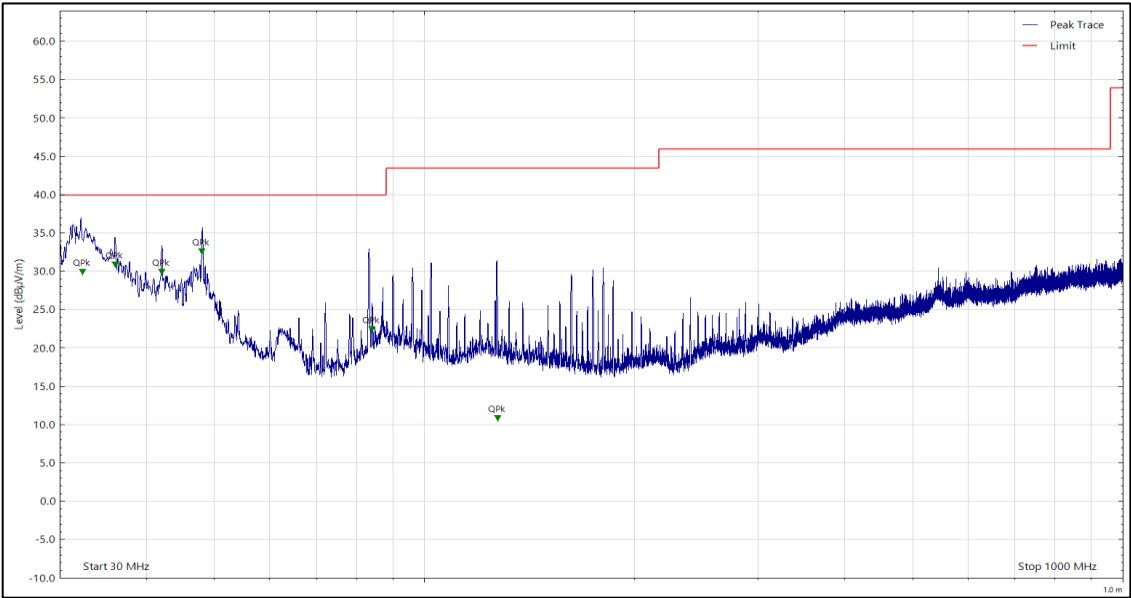


Figure 6 - 30 MHz to 1 GHz, Quasi-Peak, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
32.325	29.28	40.00	-10.72	Q-Peak	227	100	Vertical
36.005	30.28	40.00	-9.72	Q-Peak	350	109	Vertical
42.005	29.28	40.00	-10.72	Q-Peak	158	104	Vertical
47.987	31.97	40.00	-8.03	Q-Peak	360	108	Vertical
84.097	21.81	40.00	-18.19	Q-Peak	257	125	Vertical
127.364	10.27	43.50	-33.23	Q-Peak	118	108	Vertical

Table 15

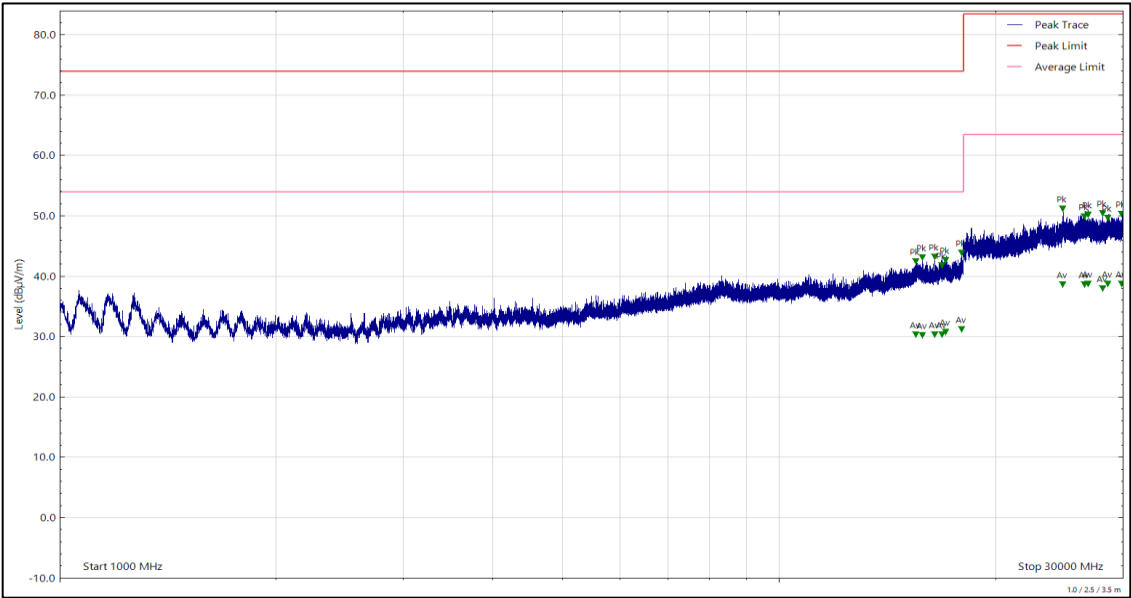


Figure 7 - 1 GHz to 30 GHz, Peak & CISPR Average, Horizontal



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
15484.695	41.71	74.00	-32.29	Peak	79	260	Horizontal
15484.695	29.53	54.00	-24.47	CISPR Avg	79	260	Horizontal
15814.822	42.37	74.00	-31.63	Peak	250	346	Horizontal
15814.822	29.49	54.00	-24.51	CISPR Avg	250	346	Horizontal
16448.450	42.48	74.00	-31.52	Peak	69	257	Horizontal
16448.450	29.54	54.00	-24.46	CISPR Avg	69	257	Horizontal
16823.048	41.05	74.00	-32.95	Peak	92	107	Horizontal
16823.048	29.63	54.00	-24.37	CISPR Avg	92	107	Horizontal
17039.833	41.95	74.00	-32.05	Peak	165	100	Horizontal
17039.833	30.01	54.00	-23.99	CISPR Avg	165	100	Horizontal
17915.143	43.15	74.00	-30.85	Peak	0	340	Horizontal
17915.143	30.40	54.00	-23.60	CISPR Avg	0	340	Horizontal
24768.427	50.42	83.50	-33.08	Peak	345	100	Horizontal
24768.427	37.83	63.50	-25.67	CISPR Avg	345	100	Horizontal
26543.870	49.12	83.50	-34.38	Peak	3	100	Horizontal
26543.870	37.86	63.50	-25.64	CISPR Avg	3	100	Horizontal
26859.832	49.47	83.50	-34.03	Peak	104	100	Horizontal
26859.832	37.96	63.50	-25.54	CISPR Avg	104	100	Horizontal
28133.741	49.67	83.50	-33.83	Peak	348	100	Horizontal
28133.741	37.24	63.50	-26.26	CISPR Avg	348	100	Horizontal
28628.530	48.91	83.50	-34.59	Peak	224	100	Horizontal
28628.530	37.93	63.50	-25.57	CISPR Avg	224	100	Horizontal
29921.593	49.54	83.50	-33.96	Peak	238	100	Horizontal
29921.593	37.99	63.50	-25.51	CISPR Avg	238	100	Horizontal

Table 16

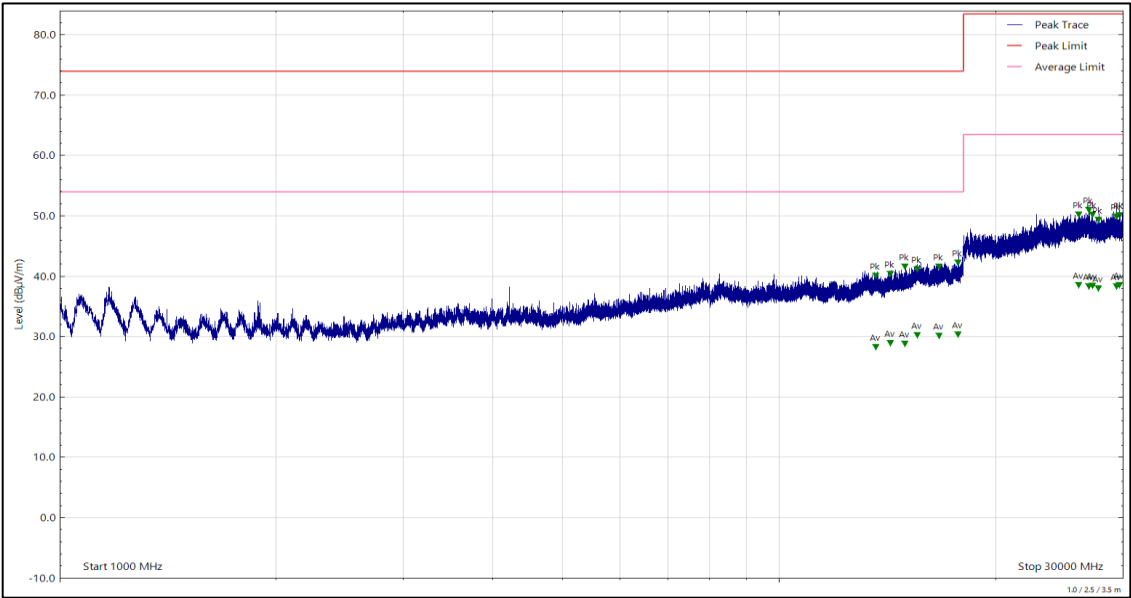


Figure 8 - 1 GHz to 30 GHz, Peak & CISPR Average, Vertical



Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
13616.599	39.32	74.00	-34.68	Peak	210	344	Vertical
13616.599	27.50	54.00	-26.50	CISPR Avg	210	344	Vertical
14275.029	39.59	74.00	-34.41	Peak	350	278	Vertical
14275.029	28.16	54.00	-25.84	CISPR Avg	350	278	Vertical
14959.623	40.77	74.00	-33.23	Peak	37	350	Vertical
14959.623	28.07	54.00	-25.93	CISPR Avg	37	350	Vertical
15541.503	40.37	74.00	-33.63	Peak	199	340	Vertical
15541.503	29.43	54.00	-24.57	CISPR Avg	199	340	Vertical
16690.250	40.82	74.00	-33.18	Peak	351	290	Vertical
16690.250	29.32	54.00	-24.68	CISPR Avg	351	290	Vertical
17708.668	41.43	74.00	-32.57	Peak	353	289	Vertical
17708.668	29.56	54.00	-24.44	CISPR Avg	353	289	Vertical
26051.355	49.40	83.50	-34.10	Peak	280	100	Vertical
26051.355	37.72	63.50	-25.78	CISPR Avg	280	100	Vertical
26929.220	50.23	83.50	-33.27	Peak	316	100	Vertical
26929.220	37.58	63.50	-25.92	CISPR Avg	316	100	Vertical
27212.060	49.49	83.50	-34.01	Peak	293	100	Vertical
27212.060	37.66	63.50	-25.84	CISPR Avg	293	100	Vertical
27772.590	48.56	83.50	-34.94	Peak	242	100	Vertical
27772.590	37.18	63.50	-26.32	CISPR Avg	242	100	Vertical
29395.990	49.08	83.50	-34.42	Peak	122	100	Vertical
29395.990	37.59	63.50	-25.91	CISPR Avg	122	100	Vertical
29672.786	49.29	83.50	-34.21	Peak	360	100	Vertical
29672.786	37.78	63.50	-25.72	CISPR Avg	360	100	Vertical

Table 17



2.2.10 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 12.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
3m Semi-Anechoic Chamber	MVG	EMC Chamber 12	5621	36	07-Aug-2026
Emissions Software	TUV SUD	EmX V3.5.5	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5382	12	09-Oct-2026
Turntable & Mast Controller	Maturo Gmbh	NCD/498/2799.01	5612	-	TU
Tilt Antenna Mast	Maturo Gmbh	TAM 4.0-P	5613	-	TU
3.5 mm 1m Cable	Junkosha	MWX221-01000DMS	5419	12	15-Aug-2026
2m Coaxial Cable Assy	Junkosha	MWX221-02000AMSAMS/A	6357	12	13-May-2026
Cable (2.92 mm(f)-N(m), 2 m)	Junkosha	MWX241-02000KFSNMS/B	6965	6	14-Feb-2026
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/B	7054	12	01-Jun-2026
Pre-Amplifier (1 GHz to 18 GHz)	Schwarzbeck	BBV 9718 C	5350	12	16-Dec-2025
Pre-Amplifier (8 - 18GHz)	Wright Technologies	APS06-0061	6306	12	18-Jul-2026
Pre-Amplifier (18 GHz to 40 GHz)	Schwarzbeck	BBV 9721	5218	12	12-May-2026
Antenna (Bilog with attenuator, 30 MHz to 3 GHz)	Schaffner	CBL6143	287	24	29-Aug-2026
Antenna (DRG, 1 GHz to 10.5 GHz)	Schwarzbeck	BBHA9120B	5611	12	14-Sep-2026
Antenna (DRG, 7.5 GHz to 18 GHz)	Schwarzbeck	HWRD750	5216	12	12-Jul-2026
Antenna (DRG, 15 GHz to 40 GHz)	Schwarzbeck	BBHA 9170	5217	12	12-May-2026
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5471	12	14-May-2026

Table 18

TU - Traceability Unscheduled



3 Test Equipment Information

3.1 General Test Equipment Used

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Multimeter	Fluke	79 Series III	498	12	26-Feb-2026
Milliohm Meter	VICI	2682132	7012	12	21-May-2026

Table 19



4 Incident Reports

No incidents reports were raised.

5 Measurement Uncertainty

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

Test Name	Measurement Uncertainty
Conducted Emissions, AC Power Port	150 kHz to 30 MHz, LISN ± 3.3 dB
Radiated Emissions	30 MHz to 1 GHz, Bilog Antenna ± 5.17 dB 1 GHz to 6 GHz, Horn Antenna ± 5.05 dB 6 GHz to 18 GHz, Horn Antenna ± 4.94 dB 18 GHz to 40 GHz, Horn Antenna ± 6.28 dB

Table 20

Worst case error for both Time and Frequency measurement 12 parts in 10^6 .

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.