

FCC and ISED Test Report

Paxton Access Ltd
Paxlock Pro 2 – Mortice Eclipse, Model: 900-735



In accordance with FCC 47 CFR Part 15C and
ISED RSS-210 and ISED RSS-GEN
Technology: (RFID)

Prepared for: Paxton Access Ltd
Paxton House Home Farm Road
Brighton, BN1 9HU

FCC ID: USE-900710 IC ID: 10217A-900710

COMMERCIAL-IN-CONFIDENCE

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SIGNATURE			
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Steve Marshall	Senior Engineer	Authorised Signatory	25 August 2026
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RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Ahmad Javid	25 August 2026	
FCC Accreditation: 492497/UK2010 Octagon House, Fareham Test Laboratory ISED Accreditation: 12669A/UK0003 Octagon House, Fareham Test Laboratory			
EXECUTIVE SUMMARY / ENGINEERING STATEMENT The measurements shown in this report were made in accordance with the procedures described on the test pages A sample of this product was tested to demonstrate limited compliance with FCC 47 CFR Part 15C 2024, ISED RSS-210 Issue 11 (06-2024) and ISED RSS-GEN: Issue 05 (2018-04) + A2 (2021-02) for the tests detailed in section 1.3. The sample tested was found to comply with the requirements defined in the applied rules.			

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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	26-Jun-2026
02	Updated Introduction (1.2) in Report Summary	10-Aug-2026
03	Updated FCC ID to USE-900710	25-Aug-2026

Table 1

1.2 Introduction

Applicant	Paxton Access Ltd
Manufacturer	Paxton Access Ltd
Model Number(s)	900-735
Hardware Version Identification Number (HVIN)	900-735
Serial Number(s)	9128133ND
Hardware Version(s)	z-lm02 & z-lmb1 – ppc-lm02 & ppc-lmb1
Firmware Version Identification Number (FVIN)	3.45
Number of Samples Tested	1
Test Specification/Issue/Date	FCC 47 CFR Part 15C: 2024 ISED RSS-210: Issue 11 (06-2024) ISED RSS-GEN: Issue 05 (2018-04) + A2 (2021-02)
Order Number	240252
Date	26-March-2026
Date of Receipt of EUT	13-May-2026
Start of Test	19-May-2026
Finish of Test	21-May-2026
Name of Engineer(s)	Ahmad Javid
Related Document(s)	ANSI C63.10-2020 +Cor.1-2023+C63.10a-2024



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15C and ISED RSS-210 and ISED RSS-GEN is shown below.

Section	Specification Clause			Test Description	Result	Comments/Base Standard
	Part 15C	RSS-210	RSS-GEN			
Configuration and Mode: 125kHz RFiD						
-	15.203	-	-	Antenna requirement	N/T	The device complies with the provisions of this section as it uses an integral antenna
2.1	15.215 (c)	N/A	6.7	20 dB Bandwidth & 99% Occupied Bandwidth	Pass	ANSI C63.10-2020 +Cor.1-2023+C63.10a-2024
2.3	15.209	4.4	6.13	Field Strength of any Emission	Pass	ANSI C63.10-2020 +Cor.1-2023+C63.10a-2024
Configuration and Mode: 13.56 MHz RFiD						
-	15.203	-	-	Antenna requirement	N/T	The device complies with the provisions of this section as it uses an integral antenna
2.1	15.215 (c)	N/A	6.7	20 dB Bandwidth & 99% Occupied Bandwidth	Pass	ANSI C63.10-2020 +Cor.1-2023+C63.10a-2024
2.2	15.225 (e)	B.6(b)	6.11	Frequency Tolerance Under Temperature Variations	Pass	ANSI C63.10-2020 +Cor.1-2023+C63.10a-2024
2.4	15.209, 15.225 (a)(b)(c)(d)	B.6(a)	6.13	Field Strength of any Emission	Pass	ANSI C63.10-2020 +Cor.1-2023+C63.10a-2024

Table 2



1.4 Customer Supplied Form

Equipment Description

Technical Description: (Please provide a brief description of the intended use of the equipment including the technologies the product supports)		The Paxlock is the battery powered smart electronic lock providing both access control and reader functions. The unit combines a 125kHz and 13.56 MHz proximity reader, a wireless bluetooth & Zigbee interface both 2.4GHz and a locking mechanism. PaxLock is a complete standalone system, there's nothing to wire together and no mains connection is required. The unit is powered by four replaceable AA batteries. The purpose of the equipment is to receive validated user input via a radio signal from a passive proximity token (card or keyfob) and then provide a digital output to the internal locking mechanism for access control. An event of this process is then transmitted to the PC through the wireless interface and stored as an archive. User's access rights are configured at the PC and the PaxLock unit is then updated as required using the same wireless method.	
Manufacturer:		Paxton Access Limited	
Product Marketing Name (PMN) or Host Marketing Name (HMN): (If Applicable; HMN is applicable for devices integrating pre-approved modules, otherwise use PMN)		900-735	
Hardware Version Identification Number (HVIN): (Formally Model Number)		900-735	
Hardware Version		z-lm02 & z-lmb1 – ppc-lm02 & ppc-lmb1	
Firmware Version Identification Number (FVIN)		3.45	
Manufacturer Declared Variants		900-710 backset) Galaxy	PaxLock Pro 2 – Latch (2-3/8"
		900-715 Eclipse	PaxLock Pro 2 – Latch (2-3/8 backset)
		900-720 Galaxy	PaxLock Pro 2 - Latch (2-3/4" backset)
		900-725 backset) Eclipse	PaxLock Pro 2 - Latch (2-3/4"
		900-730	PaxLock Pro 2 – Mortice Galaxy
For definitions of the above terms refer to RSS-GEN Section 9.			
Radio Module used for BLE and Zigbee		Silicon Labs EFR32MG13P.	
FCC ID of the product under test – see guidance here		Contains QOQMGM13P	
IC ID of the product under test – see guidance here		Contains 5123A-MGM13P	
Device Category	Mobile ☐	Portable ☐	Fixed ☒
Equipment is fitted with an Audio Low Pass Filter		Yes ☐	No ☒

Table 3

Intentional Radiators

Technology	BLE 2.4GHz	Zigbee IEEE 802.15.4	RFID 13.56MHz	RFID 125kHz		
Frequency Range (MHz to MHz)	2.4 GHz (2400 MHz)	2.4 GHz (2400 MHz)	13.56MHz	0.125MHz		
Conducted Declared Output Power (dBm)	10dBm	10dBm				
Antenna Gain (dBi)	-4 dBi	-4 dBi				
Supported Bandwidth(s) (MHz) (e.g. 1 MHz, 20 MHz, 40 MHz)	40 channels of 2MHz total 80MHz bandwidth	16 Channels 11-26 5MHz each channel				
Modulation Scheme(s) (e.g. GFSK, QPSK etc)	BT LE	802.15.4	RFID	RFID		
ITU Emission Designator (see guidance here) (not mandatory for Part 15 devices)	1M00F1D	2M45G1D	5K33K1D	5K33K1D		
Bottom Frequency (MHz)	2402 MHz	2405 MHz				
Middle Frequency (MHz)	2440 MHz	2440 MHz	13.56MHz	0.125MHz		
Top Frequency (MHz)	2480 MHz	2475 MHz				

Table 4

Un-intentional Radiators

Highest frequency generated or used in the device or on which the device operates or tunes	The highest clock frequency that we generate is 38.4 Mhz **Note that the radio circuitry has a 2.4GHz oscillator in it
Lowest frequency generated or used in the device or on which the device operates or tunes	125KHz
Class A Digital Device (Use in commercial, industrial or business environment) ☐ Class B Digital Device (Use in residential environment only) ☒	

Table 5

AC Power Source

AC supply frequency:		Hz
Voltage		V
Max current:		A
Single Phase ☐ Three Phase ☐		

Table 6

DC Power Source

Nominal voltage:		V
Extreme upper voltage:		V
Extreme lower voltage:		V
Max current:		A

Table 7

Battery Power Source

Voltage:	6	V
End-point voltage:	4.5	V (Point at which the battery will terminate)
Alkaline ☒ Leclanche ☐ Lithium ☐ Nickel Cadmium ☐ Lead Acid* ☐ *(Vehicle regulated)		
Other ☐	Please detail:	

Table 8

Charging

Can the EUT transmit whilst being charged	Yes ☐ No ☒
---	---

Table 9

Temperature

Minimum temperature:	-20°	°C
Maximum temperature:	+55°	°C

Table 10

Cable Loss

Adapter Cable Loss (Conducted sample)	0.5	dB
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Table 11



Antenna Characteristics

Antenna connector ☐			State impedance		Ohm
Temporary antenna connector ☐			State impedance		Ohm
Integral antenna ☒	Type:	Chip Antenna WE-MCA	Gain	-4	dBi
External antenna ☐	Type:		Gain		dBi
For external antenna only: Standard Antenna Jack ☐ If yes, describe how user is prohibited from changing antenna (if not professional installed): Equipment is only ever professionally installed ☐ Non-standard Antenna Jack ☐ All part 15 applications will need to show how the antenna gain was derived either from a manufacturer data sheet or a measurement. Where the gain of the antenna is inherently accounted for as a result of the measurement, such as field strength measurements on a part 15.249 or 15.231 device, so the gain does not necessarily need to be verified. However, enough information regarding the construction of the antenna shall be provided. Such information maybe photographs, length of wire antenna etc.					

Table 12

Ancillaries (if applicable)

Manufacturer:		Part Number:	
Model:		Country of Origin:	

Table 13

I hereby declare that the information supplied is correct and complete.

Name: Kevin Feeney
 Position held: Compliance Engineer
 Date: 23.04.2026

1.5 Manufacturer's Declared Variants

All the variants have identically the same electrical & electronic design, housed within all the products. The only variations between them, as will be explained below, is the handle shape and length of deadlatch. These minor changes will have no effect on Radio or EMC performance. There are two main variants of the “**Paxlock Pro 2**” the “**Paxlock Pro 2 Latch**” and “**Paxlock Pro 2 Mortice**”.

The latch uses a Cylindrical Cartridge with a 60mm or 70mm backset deadlatch. The Mortice variant encompasses a Morice lock with a mortice key cylinder.

With each of the two variants we produce the products with two types of handle version, the “**SQUARE**” and “**ROUNDED**”, these are called **Galaxy** and **Eclipse**. So, we have two variants of each of the Latch and Mortice handles.

We also produce two backset lengths of the “Paxlock pro 2 Latch” as described earlier, the 60mm and 70mm. Hence, therefore we have four sales codes for the “Paxlock pro 2 Latch” as we have two backset's and the two handle types.

The mortice has only the one lock type with the two handles variants, hence the “Paxlock pro 2 Mortice” has two sales codes.

The sales codes for the various variants are shown below.

SALES CODES	Description
900-710	Paxlock Pro 2 - Latch (2-3/8” backset) Galaxy
900-715	Paxlock Pro 2 - Latch (2-3/8” backset) Eclipse
900-720	Paxlock Pro 2 - Latch (2-3/4” backset) Galaxy
900-725	Paxlock Pro 2 - Latch (2-3/4” backset) Eclipse
900-730	Paxlock Pro 2 - Mortice Galaxy
900-735	Paxlock Pro 2 - Mortice Eclipse

All the variants have exactly the same design of electronics housed within all the products, the only variations between them, as has been explained above, is the handle type and length of deadlatch, which has no effect on EMC or Radio testing.

1.6 Product Information

1.6.1 Technical Description

The Paxlock is the battery powered smart electronic lock providing both access control and reader functions. The unit combines a 125kHz and 13.56 MHz proximity reader, a wireless bluetooth & Zigbee interface both 2.4GHz and a locking mechanism.

PaxLock is a complete standalone system, there's nothing to wire together and no mains connection is required. The unit is powered by four replaceable AA batteries. The purpose of the equipment is to receive validated user input via a radio signal from a passive proximity token (card or keyfob) and then provide a digital output to the internal locking mechanism for access control. An event of this process is then transmitted to the PC through the wireless interface and stored as an archive. User's access rights are configured at the PC and the PaxLock unit is then updated as required using the same wireless method

1.7 Deviations from the Standard

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

1.8 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
Paxlock Pro 2 Mortice Eclipse, Model: 900-735, Serial Number: 9128133ND			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 14

1.9 Test Location

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

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 125 kHz RFiD		
20 dB Bandwidth & 99% Occupied Bandwidth	Ahmad Javid	UKAS
Field Strength of any Emission	Ahmad Javid	UKAS
Configuration and Mode: 13.56 MHz RFiD		
20 dB Bandwidth & 99% Occupied Bandwidth	Ahmad Javid	UKAS
Frequency Tolerance Under Temperature Variations	Ahmad Javid	UKAS
Field Strength of any Emission	Ahmad Javid	UKAS

Table 15

Laboratory Address: TÜV SÜD, Octagon House,
Concorde Way, Fareham, Hampshire,
PO15 5RL, United Kingdom

2 Test Details

2.1 20 dB Bandwidth & 99% Occupied Bandwidth

2.1.1 Specification Reference

FCC 47 CFR Part 15C Clause 15.215 (c)
ISED RSS-210 Clause N/A
ISED RSS-GEN Clause 6.7

2.1.2 Equipment Under Test and Modification State

900-735, S/N: 9128133ND - Modification State 0

2.1.3 Date of Test

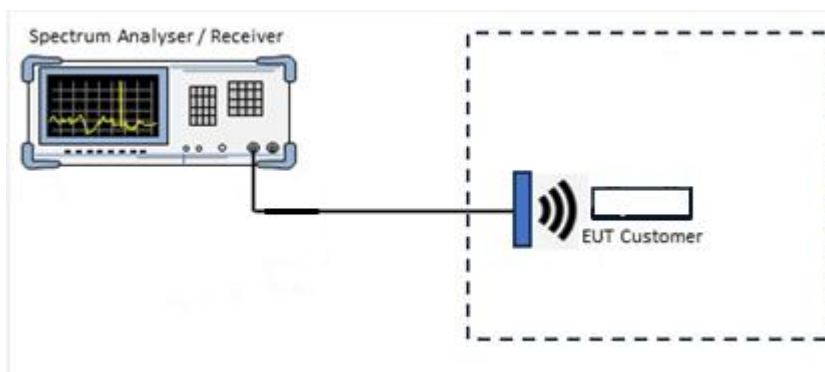
21-May-2026

2.1.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.9.2 and 6.9.3.

The DUT was powered by four AA (1.5V) batteries.

2.1.5 Test Set up



2.1.6 Environmental Conditions

Ambient Temperature	20.9 °C
Relative Humidity	41.3 %

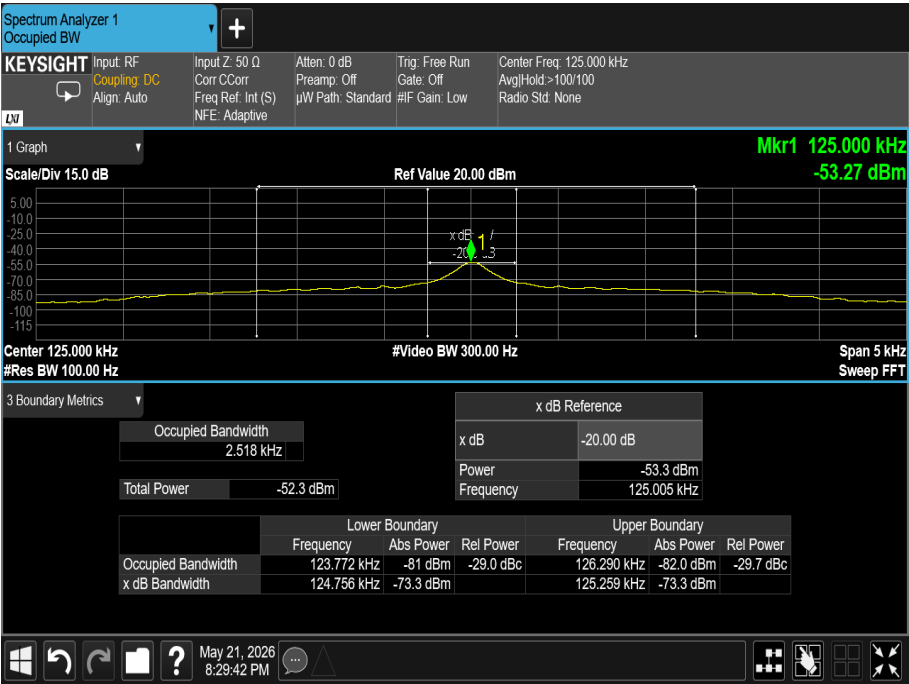


Figure 2 - 99% Occupied Bandwidth



13.56 MHz RFiD

Frequency (MHz)	20 dB Bandwidth (Hz)	99% Occupied Bandwidth (Hz)	F _{LOWER} (MHz)	F _{UPPER} (MHz)
13.56	1015	3736	13.560383	13.561397

Table 17

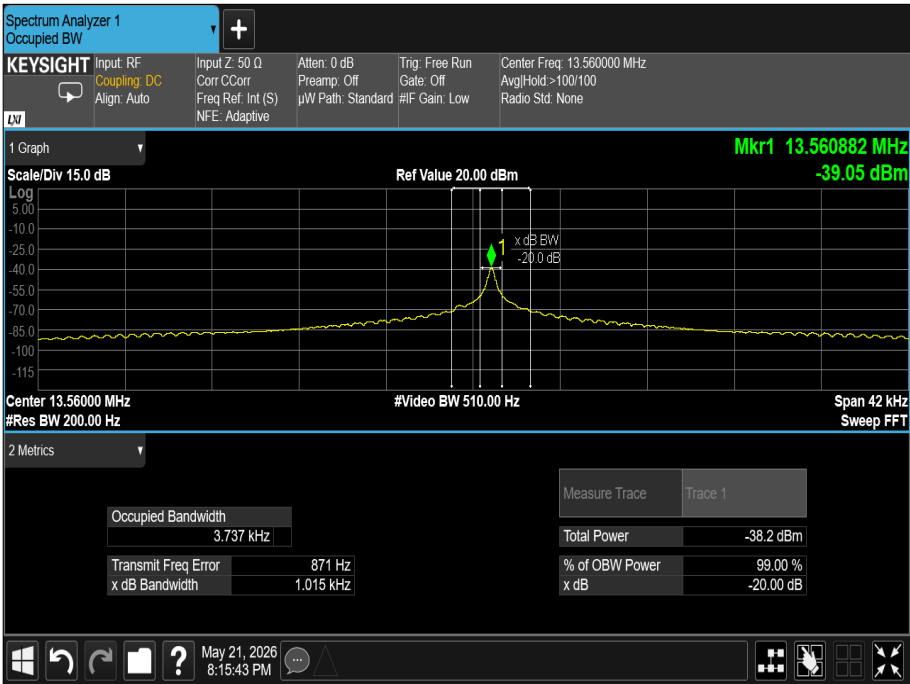


Figure 3 - 20 dB Bandwidth



Figure 4 - 99% Occupied Bandwidth

FCC 47 CFR Part 15C, Limit Clause 15.215 (c)

The 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

ISED RSS 210 and ISED RSS GEN, Limit Clause

None specified.



2.1.8 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 2.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Hygrometer	Rotronic	HP21	5004	12	16-Apr-2027
Signal Analyzer	Keysight Technologies	PXA N9030B	5432	12	19-Aug-2026
Cable (K-Type to K-Type, 2 m)	Junkosha	MWX241-02000KMSKMS/B	5934	12	12-Jun-2026
RFID Test Antenna Jig	TUV SUD	RFID_1	7145	-	O/P Mon

Table 18

O/P Mon – Output Monitored using calibrated equipment

2.2 Frequency Tolerance Under Temperature Variations

2.2.1 Specification Reference

FCC 47 CFR Part 15C Clause 15.225 (e)
ISED RSS-210 Clause B.6
ISED RSS-GEN Clause 6.11

2.2.2 Equipment Under Test and Modification State

900-735, S/N: 9128133ND - Modification State 0

2.2.3 Date of Test

21-May-2026 to 02-June-2026

2.2.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.8.

The DUT was powered by four AA (1.5V) batteries.

2.2.5 Test Set up

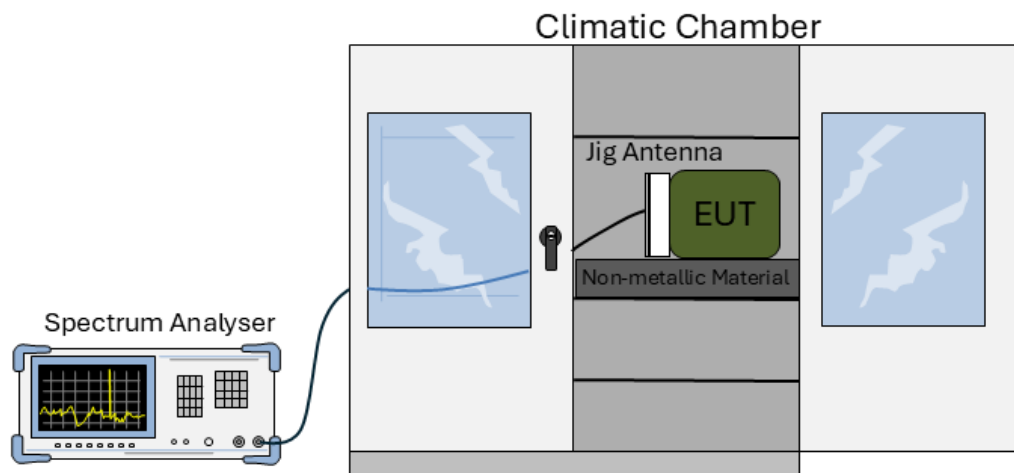


Figure 5 – Set up for Frequency Tolerance Under Temperature Variation Test

2.2.6 Environmental Conditions

Ambient Temperature 20.0 - 21.7 °C
Relative Humidity 41.3 - 43.7%

2.2.7 Test Results

13.56 MHz RFiD

Temperature	Voltage	Measured Frequency (MHz)	Frequency Deviation (%)	Frequency Error (ppm)
-20.0 °C	6V (Battery Powered)	13.560935	0.00689480	68.9480482
-10.0 °C	6V (Battery Powered)	13.560930	0.00685794	68.57936734
0.0 °C	6V (Battery Powered)	13.560945	0.00696854	69.68540909
+10.0 °C	6V (Battery Powered)	13.560940	0.00693167	69.31672878
+20.0 °C	6V (Battery Powered)	13.560925	0.00682107	68.21068622
+30.0 °C	6V (Battery Powered)	13.560895	0.00659986	65.99859375
+40.0 °C	6V (Battery Powered)	13.560880	0.00648925	64.89254385
+50.0 °C	6V (Battery Powered)	13.560860	0.00634178	63.41780684

Table 19 - Frequency Tolerance Under Temperature Variation

Temperature	Voltage	Measured Frequency (MHz)	Frequency Deviation (%)	Frequency Error (ppm)
+20.0 °C	6V (Battery Powered)	N/A	N/A	N/A
+20.0 °C	6V (Battery Powered)	13.560925	0.00682107	68.21068622
+20.0 °C	4.5V (end-point voltage)	13.560875	0.00645239	64.52386

Table 20 - Frequency Tolerance Under Voltage Variation

FCC 47 CFR Part 15, Limit Clause 15.225 (e)

The frequency tolerance of the carrier signal shall be maintained within ± 0.01 % of the operating frequency.

ISED RSS-210, Limit Clause B.6

The carrier frequency stability shall not exceed ± 100 ppm

2.2.8 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 2.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Hygrometer	Rotronic	HP21	5004	12	16-Apr-2027
Signal Analyzer	Keysight Technologies	PXA N9030B	5432	12	19-Aug-2026
Climatic Chamber	Weiss Technik	TempEvent T/180/40/3	5894	-	O/P Mon
Cable (K-Type to K-Type, 2 m)	Junkosha	MWX241-02000KMSKMS/B	5934	12	12-Jun-2026
Multimeter	Fluke	115	6343	12	26-Feb-2027
RFID Test Antenna Jig	TUV SUD	RFID_1	7145	-	O/P Mon
Power Supply	Thurlby Thandar Instruments	EX4210R	7114	-	O/P Mon

Table 21

O/P Mon – Output Monitored using calibrated equipment



2.3 Field Strength of any Emission

2.3.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.225 (a)(b)(c)(d)
ISED RSS-210, Clause B.6(a)
ISED RSS-GEN, Clause 6.13

2.3.2 Equipment Under Test and Modification State

900-735, S/N: 9128133ND - Modification State 0

2.3.3 Date of Test

19-May-2026

2.3.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.3, 6.4 and 6.5. and ISED RSS-GEN clause 6.13.

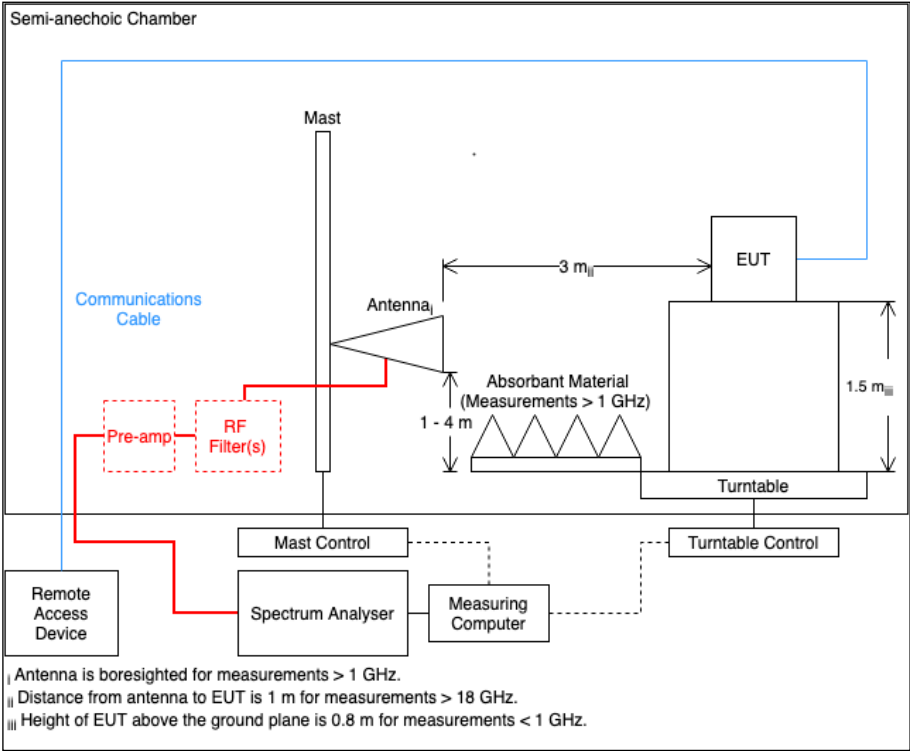
Measurements of the fundamental were made at a distance of 3 m within a semi-anechoic chamber.

The limits were extrapolated from either 300 m or 30 m to the measurement distance stated above in accordance with ANSI C63.10 Clause 6.4.4.2.

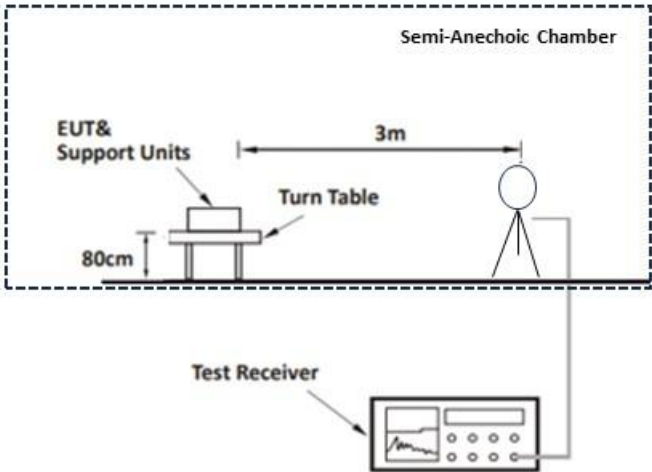
For any emissions detected within 20 dB of the limit, a final measurement was made and recorded in the table below. The detector used for these measurements was a quasi-peak detector except for emissions within the bands 9 kHz to 90 kHz and 110 kHz to 490 kHz where a CISPR average detector was used.

The DUT was powered by four AA (1.5 v) batteries.

2.3.5 Test Setup Diagram



For Radiated emissions 9kHz to 30MHz



2.3.6 Environmental Conditions

Ambient Temperature	23.2 °C
Relative Humidity	34.0 %



2.3.7 Test Results

13.56 MHz RFiD

Frequency	Fundamental Field Strength (dBuV/m)	Measurement Distance (m)	Detector	Limit (dBuV/m) at measurement distance
13.56 MHz	42.11	3	Quasi-Peak	105.39

Frequency (MHz)	Quasi-Peak Level (dBuV/m) at 3m	Quasi-Peak Level (dBuV/m) at 30m	Quasi-Peak Level (uV/m) at 3m	Quasi-Peak Level (uV/m) at 30m
13.56	42.11	2.11	127.50	1.28

Table 22 - Fundamental Emission Field Strength

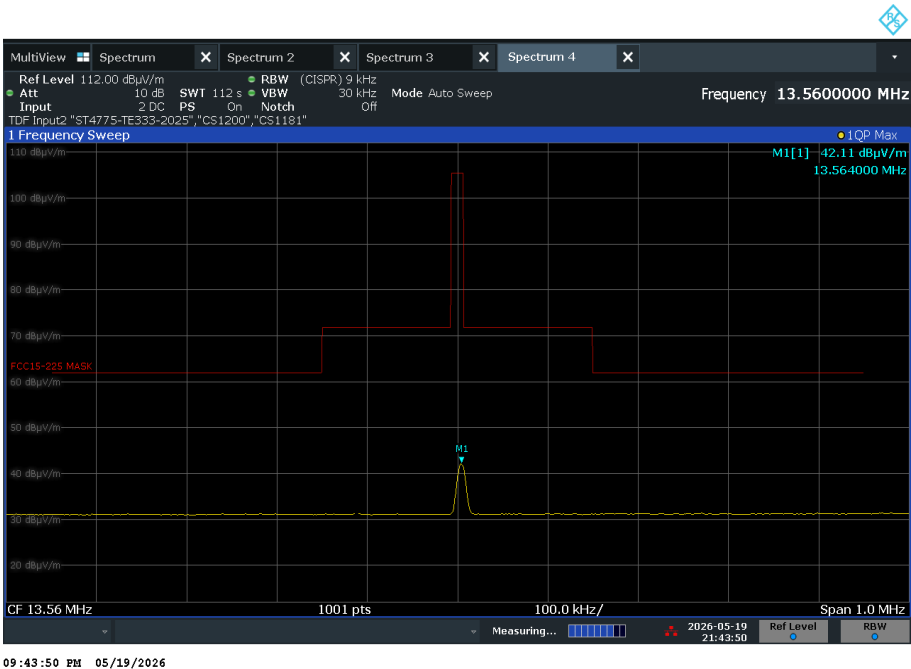


Figure 6 - Plot of the Fundamental - 13.56 MHz



Frequency (MHz)	Results at Measurement Distance			Results at Limit Distance		
	Level (µV/m)	Distance	Detector	Level (µV/m)	Distance	Detector
*						

Table 23 - Emissions Results - 9 kHz to 30 MHz

*No emissions were detected within 20dB of the limit.

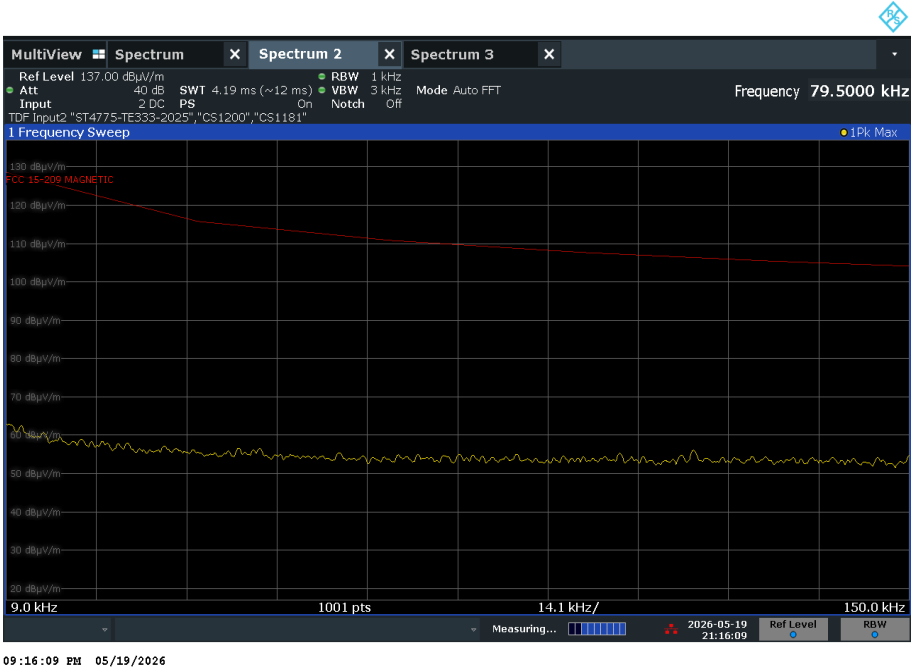


Figure 7 - 9 kHz to 150 kHz Face On

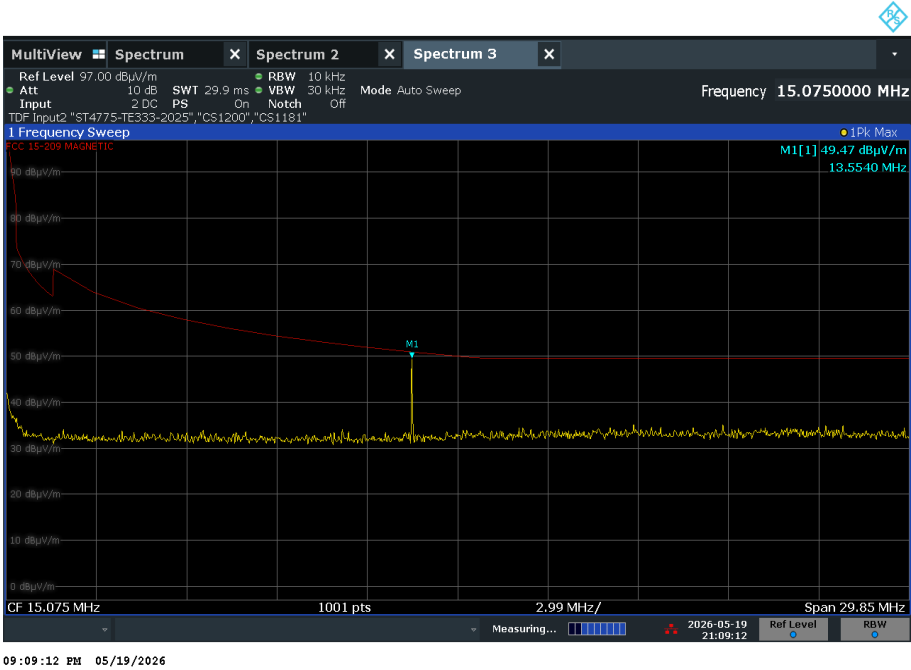


Figure 8 - 150 kHz to 30 MHz Face On

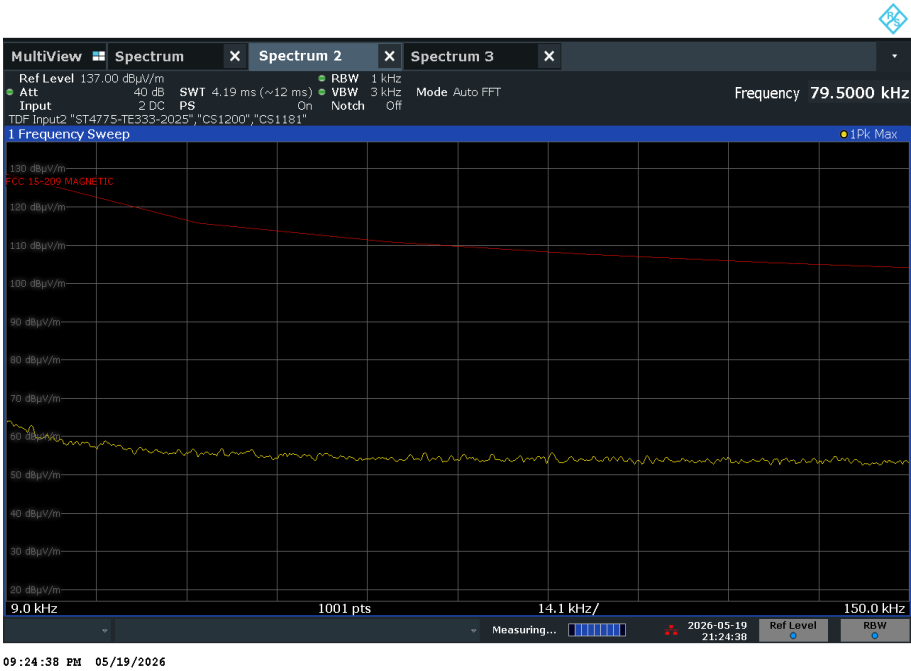


Figure 9 - 9 kHz to 150 kHz Side On

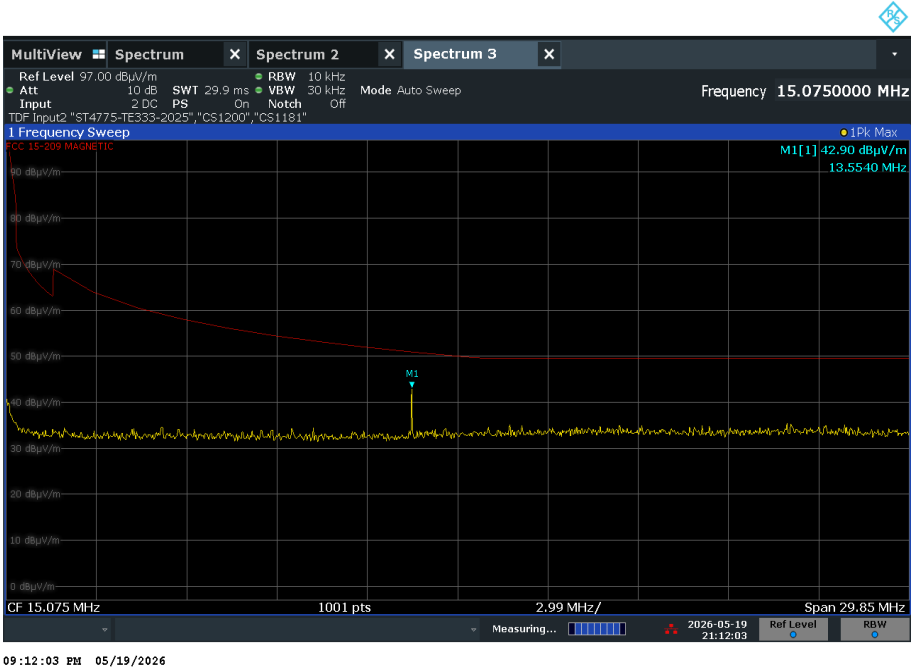


Figure 10 - 150 kHz to 30 MHz Side On



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 24 - Rfid_Transmit, 13.56MHz, 30 MHz to 1 GHz

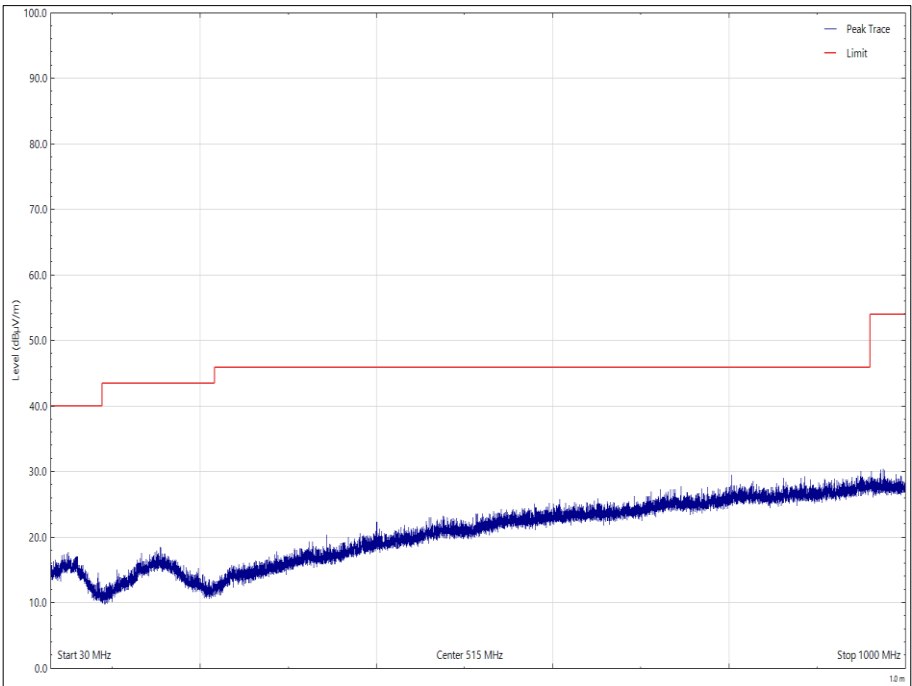


Figure 11 - 30 MHz to 1 GHz Horizontal

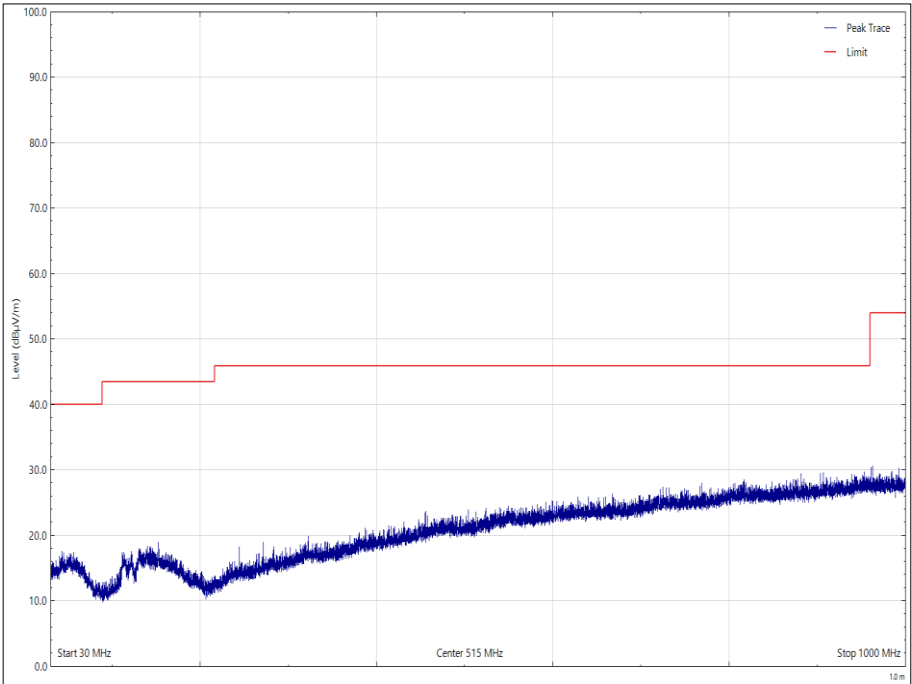


Figure 12 - 30 MHz to 1 GHz Vertical



FCC 47 CFR Part 15, Limit Clause 15.225 (a)(b)(c)(d)

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 m.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 m.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 m.

(d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

FCC 47 CFR Part 15, Limit Clause 15.209

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 to 0.490	2400/F (kHz)	300
0.490 to 1.705	24000/F (kHz)	30
1705 to 30	30	30
30 to 88	100**	3
88 to 216	150**	3
216 to 960	200**	3
Above 960	500	3

Table 25 - FCC Limit

NOTE: The level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission.



ISED RSS-210, Limit Clause B.6(a)

The field strength of any emission shall not exceed the following limits:

- (a) 15.848 mV/m (84 dB μ V/m) at 30 m, within the band 13.553 – 13.567 MHz.
- (b) 334 μ V/m (50.5 dB μ V/m) at 30 m, withing the bands 13.410 – 13.553 MHz and 13.567 – 13.710 MHz.
- (c) 106 μ V/m (40.5 dB μ V/m) at 30 m, within the bands 13.110 – 13.410 MHz and 13.710 – 14.010 MHz.
- (d) RSS-GEN general field strength limits for frequencies outside the band 13.110 – 14.010 MHz.

Industry Canada RSS-Gen, Limit Clause 8.9

Frequency (MHz)	Field Strength (μ V/m)	Measurement Distance (m)
0.009 to 0.490	2400/F (kHz)	300
0.490 to 1.705	24000/F (kHz)	30
1705 to 30	30	30

Table 26 - ISED Limit, Below 30 MHz

Frequency (MHz)	Field Strength (μ V/m at 3 metres)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

Table 27 - ISED Limit, Above 30 MHz



2.3.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 11.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Antenna (Active Loop, 9kHz-30MHz)	Rohde & Schwarz	HFH2-Z2	333	24	12-Feb-2027
Programmable Power Supply	Iso-tech	IPS 2010	2437	-	O/P Mon
True RMS Multimeter	Fluke	179	4007	12	12-Jan-2027
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	Software
Mast	Maturo	TAM 4.0-P	5158	-	TU
Mast and Turntable Controller	Maturo	Maturo NCD	5159	-	TU
Turntable	Maturo	TT 15WF	5160	-	TU
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5476	12	05-Feb-2027
EMI Test Receiver	Rohde & Schwarz	ESW44	5527	12	14-Aug-2026
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6635	24	25-Jul-2027
2m SMA Cable	Junkosha	MWX221-02000AMSAMS/B	6926	12	09-Dec-2026
Cable Assy 8m (N to N) 18GHz	Junkosha	MWX221-08000NMSNMS/B	7049	12	01-Jun-2026

Table 28

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment



2.4 Field Strength of any Emission

2.4.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.209
ISED RSS-210, Clause 4.4
ISED RSS-GEN, Clause 6.13

2.4.2 Equipment Under Test and Modification State

900-735, S/N: 9128133ND - Modification State 0

2.4.3 Date of Test

19-May-2026

2.4.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.3, 6.4 and 6.5. and ISED RSS-GEN clause 6.13.

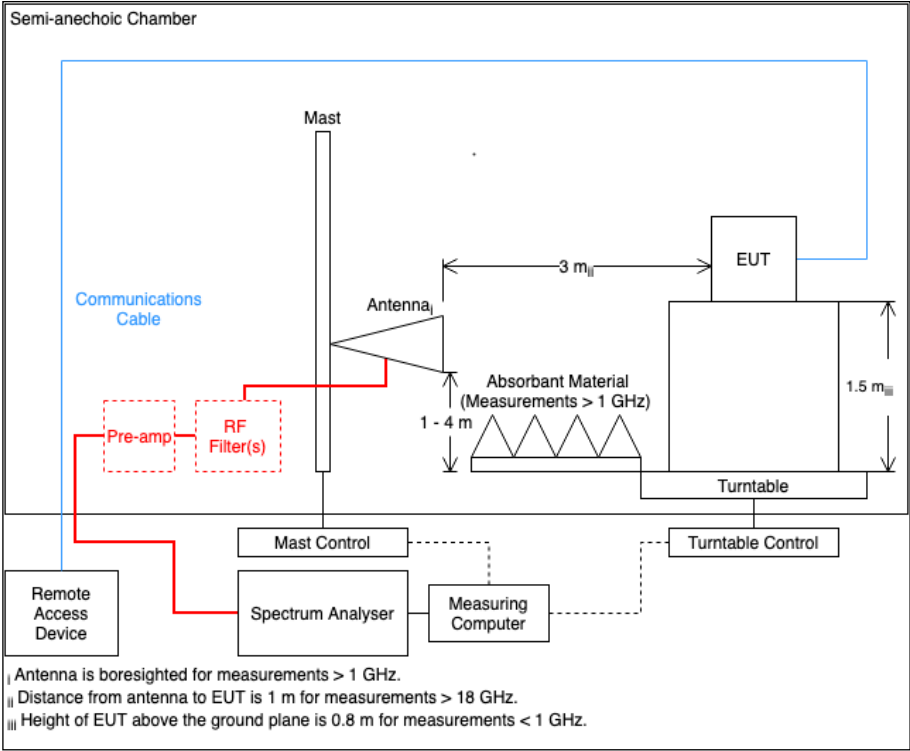
Measurements of the fundamental were made at a distance of 3 m within a semi-anechoic chamber.

The limits were extrapolated from either 300 m or 30 m to the measurement distance stated above in accordance with ANSI C63.10 Clause 6.4.4.2.

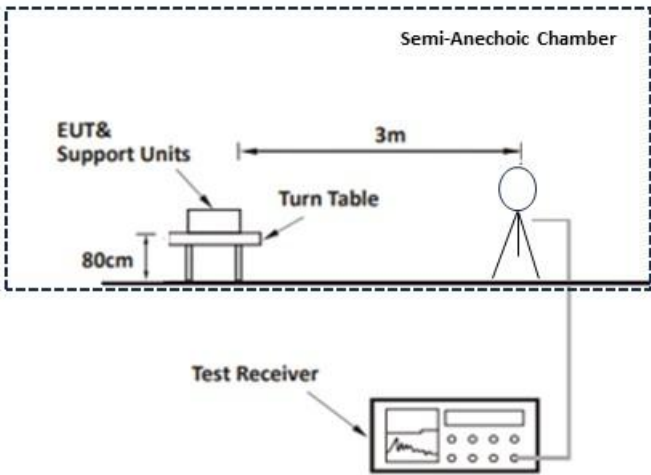
For any emissions detected within 20 dB of the limit, a final measurement was made and recorded in the table below. The detector used for these measurements was a quasi-peak detector except for emissions within the bands 9 kHz to 90 kHz and 110 kHz to 490 kHz where a CISPR average detector was used.

The DUT was powered by four AA (1.5 v) batteries.

2.4.5 Test Setup Diagram



For Radiated emissions 9kHz to 30MHz



2.4.6 Environmental Conditions

Ambient Temperature 23.2 °C
Relative Humidity 34.0 %



2.4.7 Test Results

125kHz RFiD

Frequency	Fundamental Field Strength (dBuV/m)	Measurement Distance (m)	Detector	Limit (dBuV/m) at measurement distance
0.125	38.40	3	CISPR-Avg	105.67

Table 29 - Fundamental Emission Field Strength

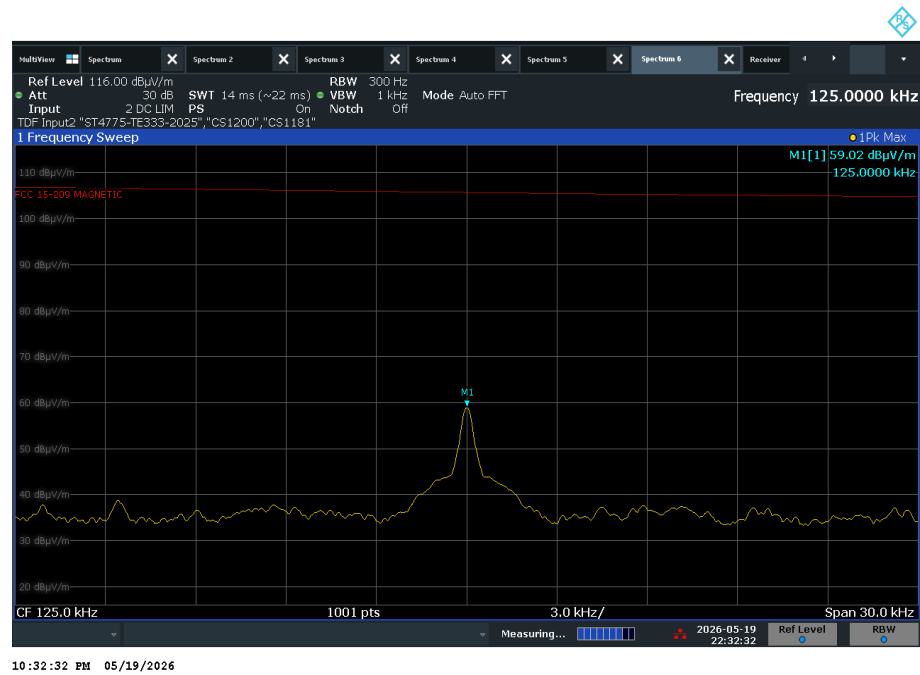


Figure 13 - Plot of the Fundamental – 125kHz



Frequency (MHz)	Results at Measurement Distance			Results at Limit Distance		
	Level (µV/m)	Distance	Detector	Level (µV/m)	Distance	Detector
*						

Table 30 - Emissions Results - 9 kHz to 30 MHz

*No emissions were detected within 20dB of the limit.

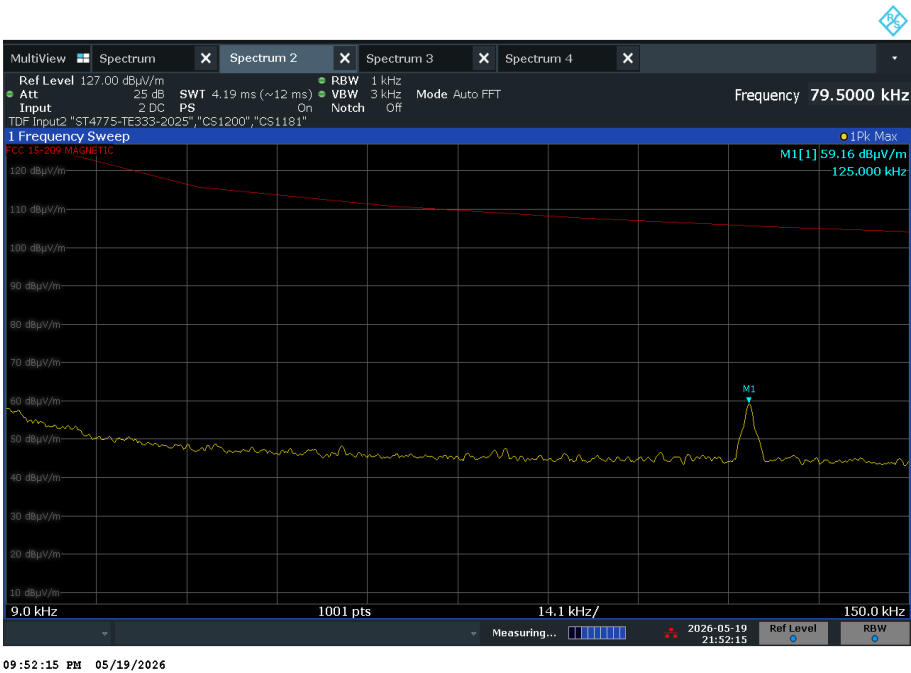


Figure 14 - 9 kHz to 150 kHz Face On

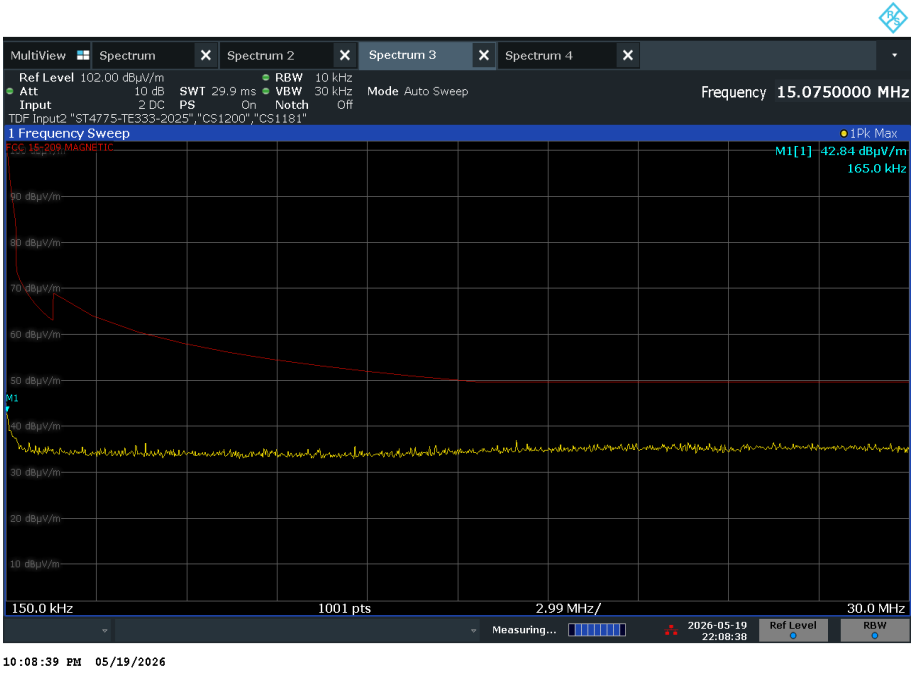




Figure 15 - 150 kHz to 30 MHz Face On

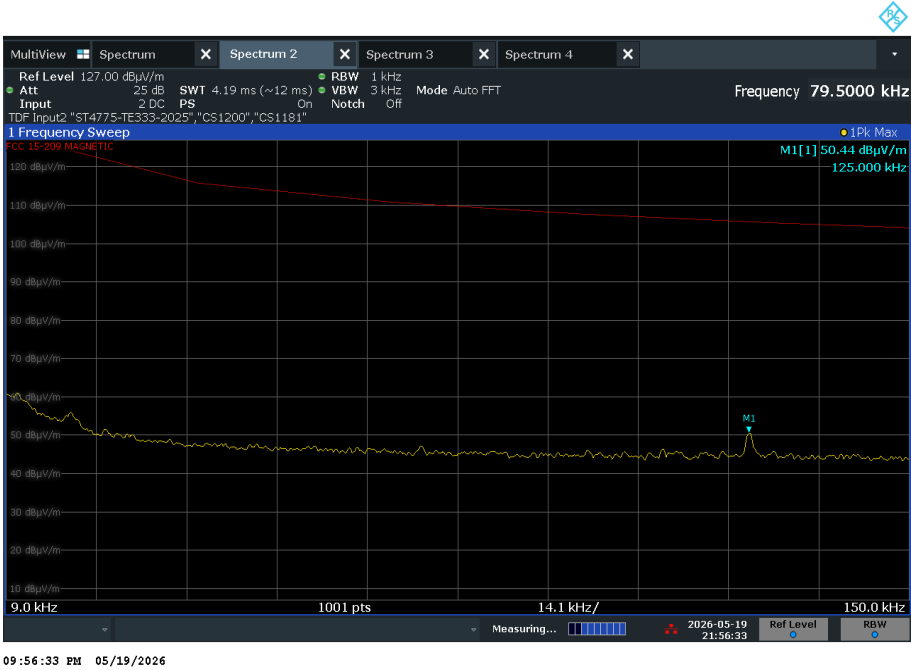


Figure 16 - 9 kHz to 150 kHz Side On

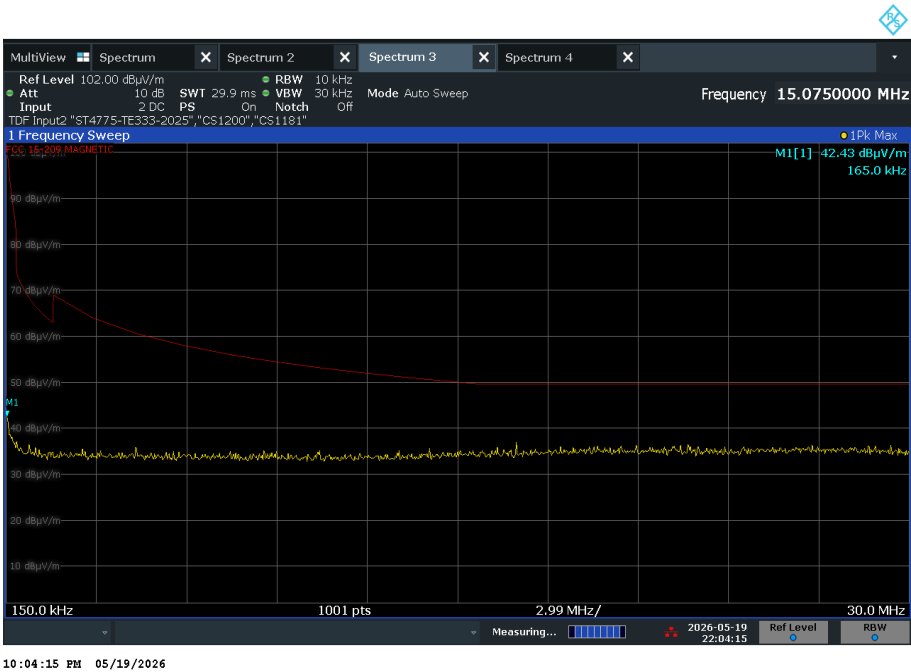


Figure 17 - 150 kHz to 30 MHz Side On



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 31 - RFid_Transmit, 125 kHz, 30 MHz to 1 GHz

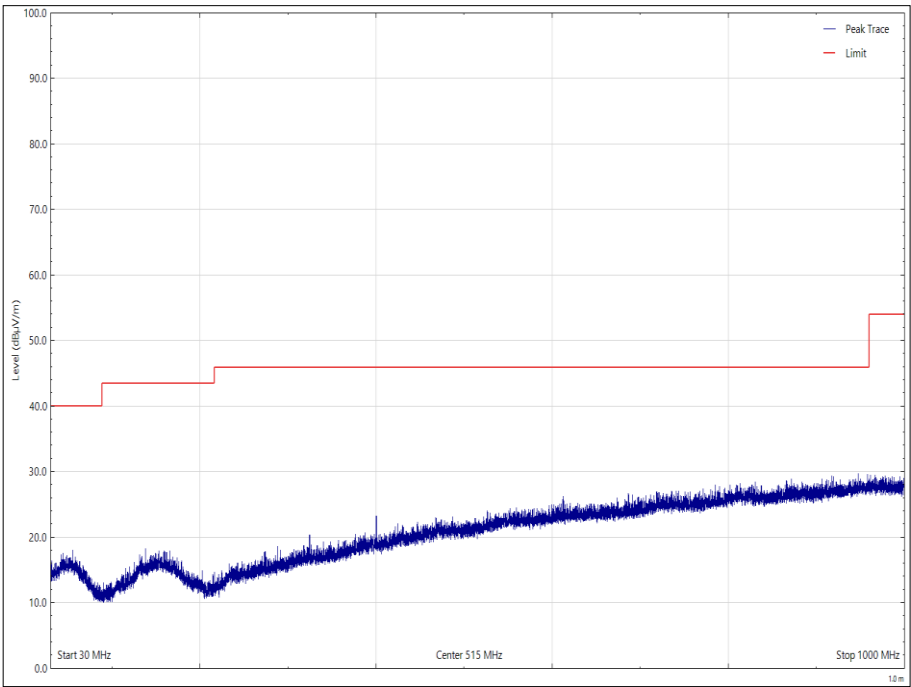


Figure 18 - 30 MHz to 1 GHz

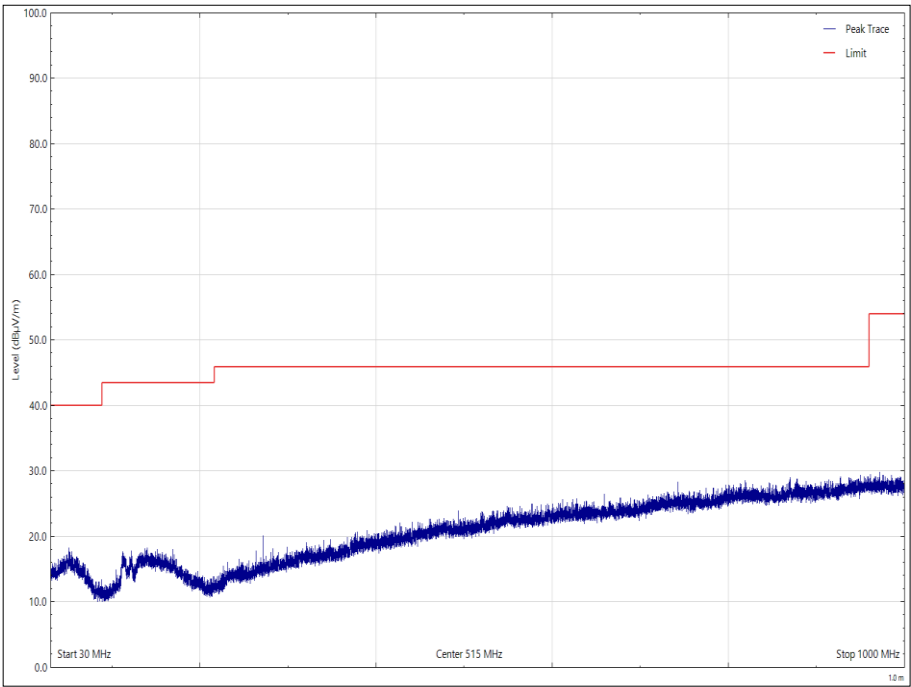


Figure 19 - 30 MHz to 1 GHz

FCC 47 CFR Part 15, Limit Clause 15.209

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 to 0.490	2400/F (kHz)	300
0.490 to 1.705	24000/F (kHz)	30
1705 to 30	30	30
30 to 88	100**	3
88 to 216	150**	3
216 to 960	200**	3
Above 960	500	3

Table 32 - FCC Limit

NOTE: The level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission.

ISED RSS-210, Limit Clause 4.4

Under no circumstance shall the level of any unwanted emissions exceed the level of the fundamental emissions.

ISED RSS-GEN, Limit Clause 8.9

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 to 0.490	2400/F (kHz)	300
0.490 to 1.705	24000/F (kHz)	30
1705 to 30	30	30

Table 33 - IC Limit, Below 30 MHz

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at 3 metres)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

Table 34 - IC Limit, Above 30 MHz



2.4.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 11.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Antenna (Active Loop, 9kHz-30MHz)	Rohde & Schwarz	HFH2-Z2	333	24	12-Feb-2027
Programmable Power Supply	Iso-tech	IPS 2010	2437	-	O/P Mon
True RMS Multimeter	Fluke	179	4007	12	12-Jan-2027
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	Software
Mast	Maturo	TAM 4.0-P	5158	-	TU
Mast and Turntable Controller	Maturo	Maturo NCD	5159	-	TU
Turntable	Maturo	TT 15WF	5160	-	TU
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5476	12	05-Feb-2027
EMI Test Receiver	Rohde & Schwarz	ESW44	5527	12	14-Aug-2026
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6635	24	25-Jul-2027
2m SMA Cable	Junkosha	MWX221-02000AMSAMS/B	6926	12	09-Dec-2026
Cable Assy 8m (N to N) 18GHz	Junkosha	MWX221-08000NMSNMS/B	7049	12	01-Jun-2026

Table 35

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment

3 Photographs

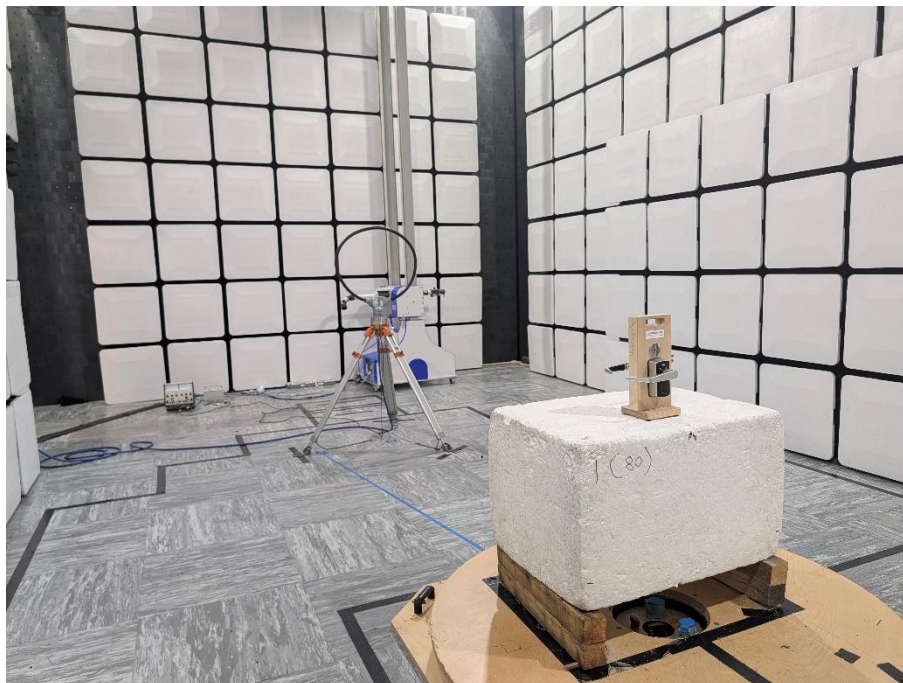


Figure 20 – 9kHz to 30 MHz Test Setup

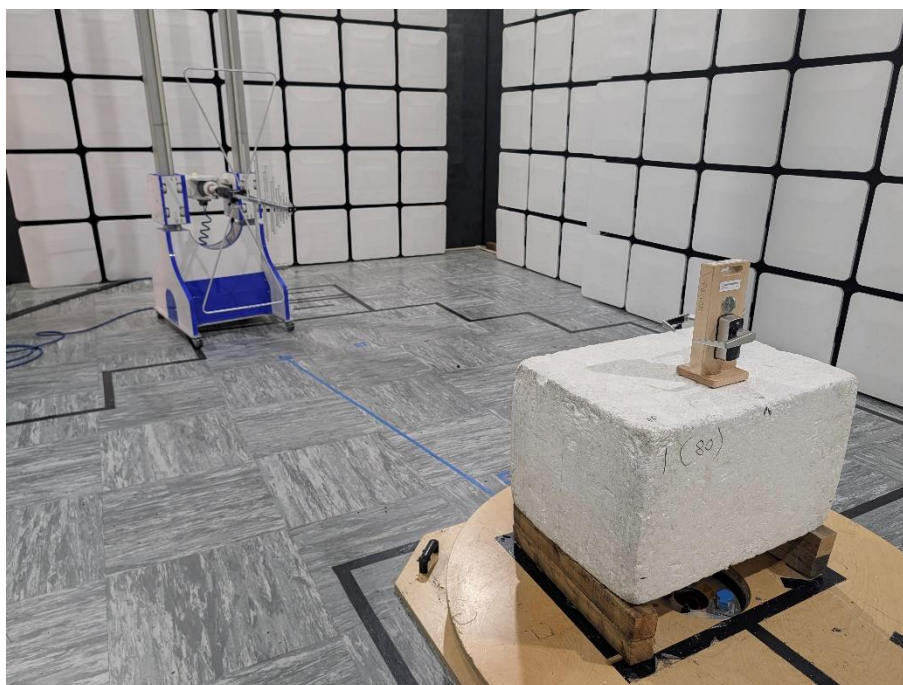


Figure 21 - Test Setup - 30 MHz to 1 GHz

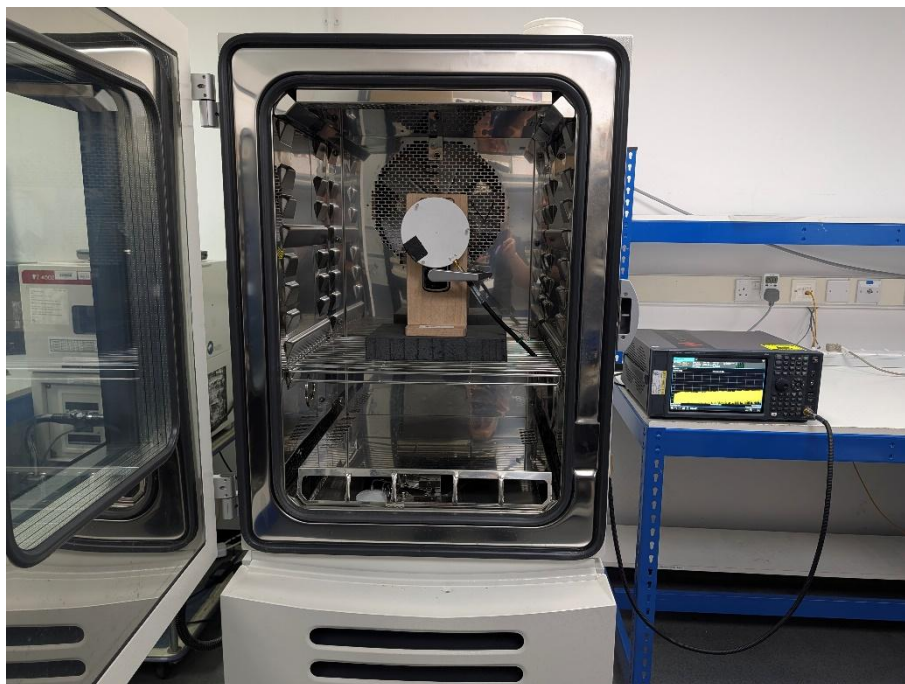


Figure 22 - Test Setup – Frequency Tolerance & OBW

4 Measurement Uncertainty

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

Test Name	Measurement Uncertainty
20 dB Bandwidth & 99% Occupied Bandwidth	± 392.14 Hz
Frequency Tolerance Under Temperature Variations	± 46.554 Hz
Field Strength of any Emission	9 kHz to 30 MHz: ± 3.4 dB 30 MHz to 1 GHz: ± 5.2 dB

Table 36

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2023, Clause 4.3.4 (Simple Acceptance). 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.