

FCC and ISED Test Report

MPI Holdings FZE

ISS (Intelligent Safety System)

In accordance with FCC 47 CFR Part 15, ISED
RSS-247, ISED RSS-210 and ISED RSS-GEN
(915 MHz ISM and 6 GHz UWB)



Prepared for: MPI Holdings FZE
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Dubai World Trade Centre
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0000

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IC: 32306-ISSMP1ZACAN

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Document 75960007-04 Issue 02

SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Steve Marshall	Senior Engineer	Authorised Signatory	25 September 2024

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

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-210 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	Ahmad Javid	25 September 2024	

FCC Accreditation

492497/UK2010 Octagon House, Fareham Test Laboratory

ISED Accreditation

12669A Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15: 2022, ISED RSS-210: Issue 10 (12-2019) + A1 (04-2020), ISED RSS-247: Issue 3 (08-2023) and ISED RSS-GEN: Issue 5 (04-2018) + A2 (02-2021) 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	14-May-2024
2	Second Issue – change in declared variant names	25-September-2024

Table 1

1.2 Introduction

Applicant	MPI Holdings FZE
Manufacturer	MPI Holdings FZE
Component Number(s)	GDU (Graphical Display Unit) - 641-9401 (no LTE) GDU (Graphical Display Unit) - 641-9395 – (compact) GDU (Graphical Display Unit) – 641-9400 (With LTE) Power Hub CCU (Central Control Unit) – 641-9399 White RCM (Radio Communication Module) – 641-9389 RTD (Real Time Detection) Unit – 641-9404 E6 Handset – 641-9403
Manufacturers Declared Variant Model(s)	The “IMS-HME” consists of the Power Hub CCU (641-9399), E6-Handset (641-9403), GDU (641-9400 or 641-9401) and RTD (641-9404). “IMS-Antenna” consists of just the White 915 MHz RCM (641-9389) “IMS-LV” consists of the GDU Compact (641-9395)
Serial Number(s)	Power Hub CCU (Central Control Unit) – S/N: 251684 White RCM (Radio Communication Module) - S/N: 253990 GDU (Graphical Display Unit) – S/N: 250240 RTD (Real Time Detection) Unit – S/N: 249477 E6 Handset – S/N: 254506
Hardware Version(s)	GDU-1V6 CCU-1V4 RCM-2V2 E6-1V3 RTD+-1V2
Software Version(s)	Power Hub CCU (Central Control Unit) – S/N: MHE2_IMS-CCU_1V42_1DEC2023_140746 White RCM (Radio Communication Module) - S/N: IMS_IMS-RCM2_1V30_12FEB2024_082125 GDU (Graphical Display Unit) – S/N: IMS_IMS-GDU_1V53_6MAR2024_143344



	RTD (Real Time Detection) Unit – S/N: IMS_IMS-RTD2_1V7_11DEC2023_093723 E6 Handset – S/N: MHE2_MCS-E6_1V8_17JAN2024_101125
Number of Samples Tested	1
Test Specification/Issue/Date	FCC 47 CFR Part 15: 2022 ISED RSS-210: Issue 10 (12-2019) + A1 (04-2020) ISED RSS-247: Issue 3 (08-2023) ISED RSS-GEN: Issue 5 (04-2018) + A2 (02-2021)
Order Number	003752
Date	06-December-2023
Date of Receipt of EUT	08-February-2024
Start of Test	20-February-2024
Finish of Test	20-February-2024
Name of Engineer(s)	Ahmad Javid
Related Document(s)	ANSI C63.10 (2013) ANSI C63.10 (2020) ANSI C63.4 (2014) KDB 996369 D04



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-210 and ISED RSS-GEN is shown below.

Section	Specification Clause				Test Description	Result	Comments/Base Standard
	Part 15	RSS-247	RSS-210	RSS-GEN			
Configuration and Mode: 915 MHz (middle channel) + UWB (6 GHz channel) -							
2.1	15.250 & 15.247	3.3 & 5.5	Annex K.3	6.13 & 8.9	Radiated Spurious Emissions	Pass	ANSI C63.10 (2013) ANSI C63.10 (2020) ANSI C63.4 (2014) KDB 996369 D04 Module Integration Guide v02

Table 2



1.4 Manufacturers Declared Variant(s)

The customer has declared the following variants to the items tested:

1. "IMS-Antenna" consists of just the White 915 MHz RCM (641-9389)
2. "IMS-LV" consists of the GDU Compact (641-9395)

All other hardware, software and wireless module remain the same.



1.5 Application Form

Equipment Description

<p>Technical Description: (Please provide a brief description of the intended use of the equipment including the technologies the product supports)</p>	<p>Vehicle Intelligent Safety System (ISS) which serves as a semi autonomous, modular component based collision avoidance system (CAS) for both Controlled Level 8 and 9 applications. The system encapsulates various RF technologies that being WiFi, Bluetooth, LTE, UWB/RTLS, as well as GNSS and an RF ISM band. The system functionality for the previously stated RF technologies is as follows:</p> <ul style="list-style-type: none"> - WiFi is responsible to uploading event and position data to an online tracking platform. - Bluetooth is tasked with initiating firmware uploads, software configuration adjustments as well as log downloads of both event and position data. - LTE uploads event and position data to the online tracking platform via cellular networks or service providers. - UWB/RTLS augments the GNSS data to provide real time distance data of surrounding systems as fail to safe in the event of weak GNSS signal strength which include under-roof and dead zone scenarios. - GNSS and an ISM RF band (915 MHz) are collectively responsible for retrieving augmented location based data such as time, latitude, longitude etc from surrounding constellation satellites (GPS, GLONASS, Beidou, Galileo) on a vehicle/machine system to broadcast, on the configured ISM band (915 MHz in this case), to surrounding system units to be processed via a series of complex algorithms in order to determine the potential risk of collision whilst a vehicle/machine maintains a certain trajectory. 		
Manufacturer:	MHE Electronics		
Model:			
Part Number:	638-3304		
Hardware Version:	GDU-1V6 CCU-1V4 RCM-2V2 E6-1V3 RTD+-1V2		
Software Version:			
FCC ID of the product under test – see guidance here		2BFLQISSMP1ZA	
IC ID of the product under test – see guidance here		32306-ISSMP1ZACAN	
Device Category	Mobile <input checked="" type="checkbox"/>	Portable <input type="checkbox"/>	Fixed <input type="checkbox"/>
Equipment is fitted with an Audio Low Pass Filter		Yes <input type="checkbox"/>	No <input type="checkbox"/>

Table 3

Intentional Radiators

Technology	LTE CatM1/NB1 B2	LTE CatM1/NB1 B4	LTE CatM1/NB1 B5	LTE CatM1/NB1 B12	LTE CatM1/NB1 B13
Frequency Range (MHz to MHz)	1850-1910	1710-1755	824-849	698-716	776-788
Conducted Declared Output Power (dBm)	21	21	21	21	21
Antenna Gain (dBi)	2.7	2.7	1.5	1.5	1.5
Supported Bandwidth(s) (MHz) (e.g. 1 MHz, 20 MHz, 40 MHz)	0.2 1.4	0.2 1.4	0.2 1.4	0.2 1.4	0.2 1.4
Modulation Scheme(s) (e.g. GFSK, QPSK etc)	QPSK	QPSK	QPSK	QPSK	QPSK



ITU Emission Designator (see guidance here) (not mandatory for Part 15 devices)	200KGXW 1M40GXW	200KGXW 1M40GXW	200KGXW 1M40GXW	200KGXW 1M40GXW	200KGXW 1M40GXW
Bottom Frequency (MHz)	1850.2	1710.2	824.2	698.2	776.2
Middle Frequency (MHz)	1880.0	1732.5	836.5	707.0	782.0
Top Frequency (MHz)	1909.8	1754.8	848.8	715.8	787.8

Table 4



Technology	LTE CatM1/NB1 B25	LTE CatM1/NB1 B26	LTE CatM1/NB1 B66	LTE NB1 B71
Frequency Range (MHz to MHz)	1850-1915	814-849	1710-1780	663-698
Conducted Declared Output Power (dBm)	21	21	21	21
Antenna Gain (dBi)	2.7	1.5	1.5	Antenna may not work at his frequency Band
Supported Bandwidth(s) (MHz) (e.g. 1 MHz, 20 MHz, 40 MHz)	0.2 1.4	0.2 1.4	0.2 1.4	0.2
Modulation Scheme(s) (e.g. GFSK, QPSK etc)	QPSK	QPSK	QPSK	QPSK
ITU Emission Designator (see guidance here) (not mandatory for Part 15 devices)	200KGXW 1M40GXW	200KGXW 1M40GXW	200KGXW 1M40GXW	200KGXW
Bottom Frequency (MHz)	1850.2	814.2	1710.2	663.2
Middle Frequency (MHz)	1882.5	831.5	1745.0	680.5
Top Frequency (MHz)	1914.8	848.8	1779.2	697.8

Table 5

Technology	ISM	Bluetooth	WiFi	UWB
Frequency Range (MHz to MHz)	915-928	2400-2483.5	2400-2483.5	6240-6739.2
Conducted Declared Output Power (dBm)	12	12	15	33.5
Antenna Gain (dBi)	2.1	3.4	3.4	4.16
Supported Bandwidth(s) (MHz) (e.g. 1 MHz, 20 MHz, 40 MHz)	TBC	1	20	500
Modulation Scheme(s) (e.g. GFSK, QPSK etc)	GFSK	GFSK	DSSS, OFDM	BPM/BPSK
ITU Emission Designator (see guidance here) (not mandatory for Part 15 devices)	N/A	N/A	N/A	N/A
Bottom Frequency (MHz)	915	2402	2412	-
Middle Frequency (MHz)	921.5	2440	2437	6489.6
Top Frequency (MHz)	928	2480	2462	-

Table 6



Un-intentional Radiators

Highest frequency generated or used in the device or on which the device operates or tunes	6Ghz
Lowest frequency generated or used in the device or on which the device operates or tunes	915
Class A Digital Device (Use in commercial, industrial or business environment) <input checked="" type="checkbox"/>	
Class B Digital Device (Use in residential environment only) <input type="checkbox"/>	

Table 7

AC Power Source

AC supply frequency:	N/A	Hz
Voltage	N/A	V
Max current:	N/A	A
Single Phase <input type="checkbox"/> Three Phase <input type="checkbox"/>		

Table 8

DC Power Source

Nominal voltage:	24	V
Extreme upper voltage:	30	V
Extreme lower voltage:	10	V
Max current:	2	A

Table 9

Battery Power Source

Voltage:	N/A	V
End-point voltage:	N/A	V (Point at which the battery will terminate)
Alkaline <input type="checkbox"/> Leclanche <input type="checkbox"/> Lithium <input type="checkbox"/> Nickel Cadmium <input type="checkbox"/> Lead Acid* <input type="checkbox"/> *(Vehicle regulated)		
Other <input type="checkbox"/>	Please detail:	

Table 10

Charging

Can the EUT transmit whilst being charged	Yes <input type="checkbox"/> No <input type="checkbox"/>
---	--

Table 11

Temperature

Minimum temperature:	-20	°C
Maximum temperature:	80	°C

Table 12



Cable Loss

Adapter Cable Loss (Conducted sample)		dB
--	--	----

Table 13

Antenna Characteristics (LTE)

Antenna connector <input checked="" type="checkbox"/> UFL			State impedance	50	Ohm
Temporary antenna connector <input type="checkbox"/>			State impedance		Ohm
Integral antenna <input checked="" type="checkbox"/>	Type:	TRIO mXTEND	Gain	2.4	dBi
External antenna <input type="checkbox"/>	Type:		Gain		dBi
<p>For external antenna only:</p> <p>Standard Antenna Jack <input type="checkbox"/> If yes, describe how user is prohibited from changing antenna (if not professional installed):</p> <p>Equipment is only ever professionally installed <input checked="" type="checkbox"/></p> <p>Non-standard Antenna Jack <input type="checkbox"/></p> <p>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.</p>					

Table 14

Antenna Characteristics (ISM)

Antenna connector <input checked="" type="checkbox"/> SMA			State impedance	50	Ohm
Temporary antenna connector <input type="checkbox"/>			State impedance		Ohm
Integral antenna <input checked="" type="checkbox"/>	Type:	RUN mXTEND	Gain	2.1	dBi
External antenna <input type="checkbox"/>	Type:		Gain		dBi
<p>For external antenna only:</p> <p>Standard Antenna Jack <input type="checkbox"/> If yes, describe how user is prohibited from changing antenna (if not professional installed):</p> <p>Equipment is only ever professionally installed <input checked="" type="checkbox"/></p> <p>Non-standard Antenna Jack <input type="checkbox"/></p> <p>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.</p>					

Table 15



Ancillaries (if applicable)

Manufacturer:		Part Number:	
Model:		Country of Origin:	

Table 16

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

Name: Shayne Watson
Position held: Director
Date: 13 December 2023



1.6 Product Information

1.6.1 Technical Description

Vehicle mounted collision avoidance equipment.

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
Power Hub CCU (Central Control Unit), Serial Number: 641-9399			
0	As supplied by the customer	Not Applicable	Not Applicable
White RCM (Radio Communication Module), Serial Number: 253-961			
0	As supplied by the customer	Not Applicable	Not Applicable
GDU (Graphical Display Unit), Serial Number: 250240			
0	As supplied by the customer	Not Applicable	Not Applicable
RTD (Real Time Detection) Unit, Serial Number: 249591			
0	As supplied by the customer	Not Applicable	Not Applicable
E6 Handset, Serial Number: 254506			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 17

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: 915 MHz (middle channel) + UWB (6 GHz channel)		
Radiated Spurious Emissions	Ahmad Javid	UKAS

Table 18

Office Address:

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



2 Test Details

2.1 Radiated Spurious Emissions (Simultaneous Transmission)

2.1.1 Specification Reference

FCC 47 CFR Part 15, Clause 15.250 and 15.247
ISED RSS-247, Clause 3.3 and 5.5
ISED RSS-210: Annex K.3
ISED RSS-GEN: Clause 6.13 and 8.9

2.1.2 Equipment Under Test and Modification State

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
Power Hub CCU (Central Control Unit), Serial Number: 641-9399			
0	As supplied by the customer	Not Applicable	Not Applicable
White RCM (Radio Communication Module), Serial Number: 253-961			
0	As supplied by the customer	Not Applicable	Not Applicable
GDU (Graphical Display Unit), Serial Number: 250240			
0	As supplied by the customer	Not Applicable	Not Applicable
RTD (Real Time Detection) Unit, Serial Number: 249591			
0	As supplied by the customer	Not Applicable	Not Applicable
E6 Handset, Serial Number: 254506			
0	As supplied by the customer	Not Applicable	Not Applicable

2.1.3 Date of Test

15-March-2024

2.1.4 Test Method

A preliminary profile of the Radiated Spurious Emissions was obtained up to the 5th harmonic, as required by KDB 996369 D04, clause 3.2, by operating the EUT on a remotely controlled turntable within a semi-anechoic chamber.

The EUT was powered via a DC Power Supply unit at a + 24 V DC nominal voltage.

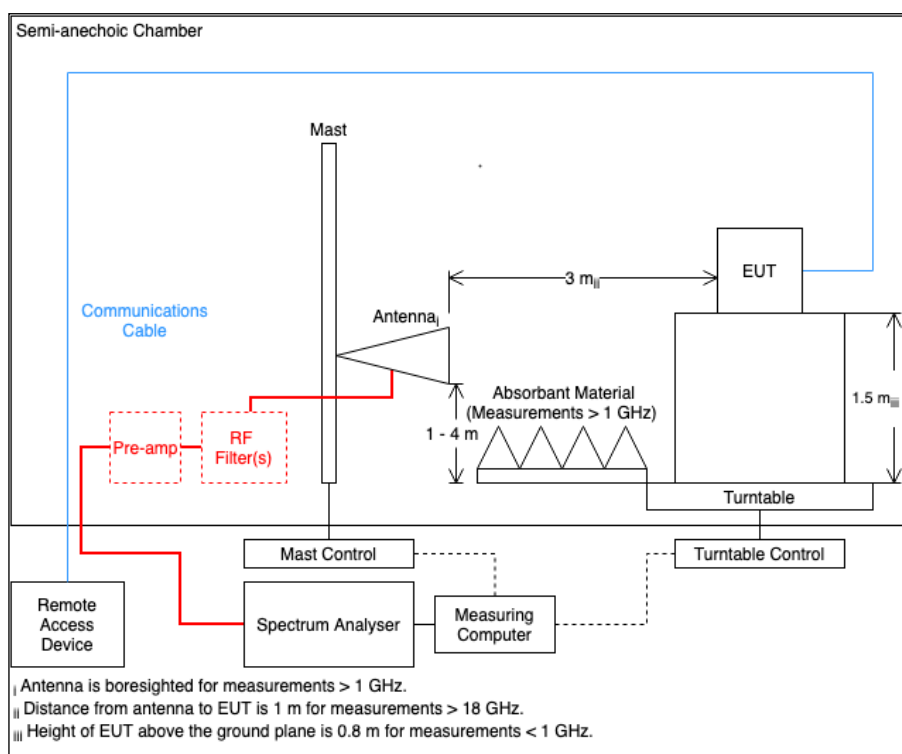
Measurements of emissions from the EUT were obtained with the Measurement Antenna in both Horizontal and Vertical Polarisations. The profiling produced a list of the worst-case emissions together with the EUT azimuth and antenna polarisation.

This test was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

The plots shown are the characterisation of the EUT. The limits on the plots represent the most stringent case for restricted bands, (74/54 dBuV/m) when compared to non-restricted band limits. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10 dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBuV/m to $\mu\text{V/m}$:
 $10^{(\text{Field Strength in dBuV/m}/20)}$.

2.1.5 Example Test Setup Diagram



2.1.6 Environmental Conditions

Ambient Temperature	20.3 °C
Relative Humidity	47.5 %

2.1.7 Test Results

915 MHz (middle channel) + UWB (6 GHz channel)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
33.256	38.10	40.00	-1.90	Peak	10	100	Vertical

Table 16 - ISM_UWB, 921.5_6489.6 MHz, 30 MHz to 10 GHz

No other emissions found within 10 dB of the limit.

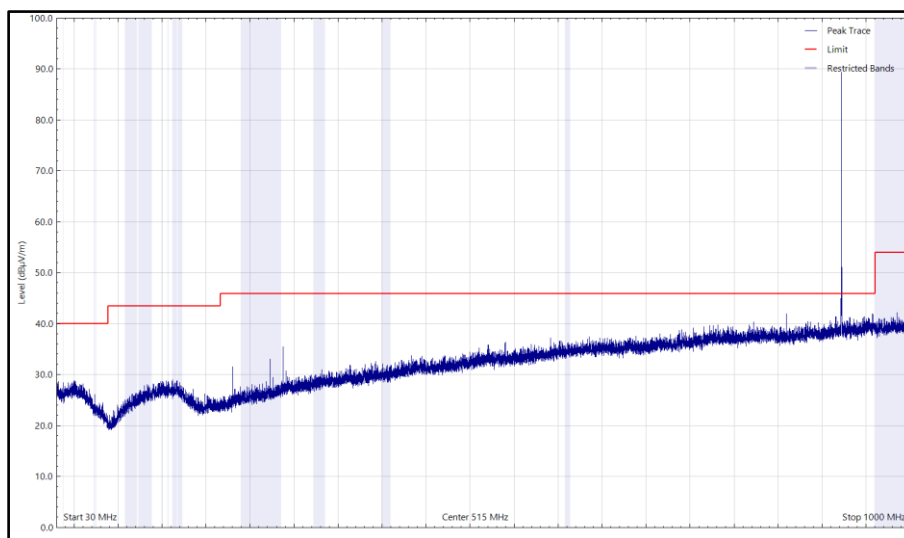


Figure 2 - ISM_UWB, 921.5_6489.6 MHz, 30 MHz to 1 GHz, Horizontal (Peak)

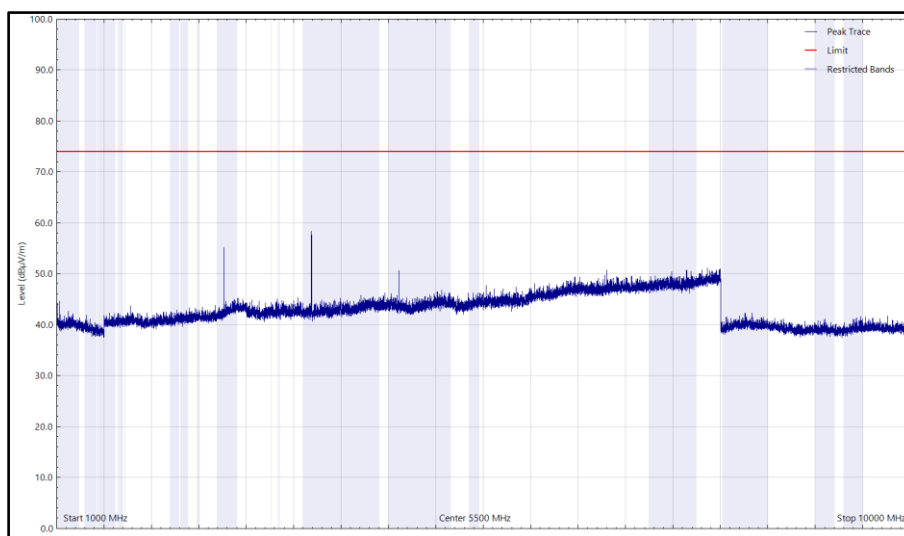


Figure 3 - ISM_UWB, 921.5_6489.6 MHz, 1 GHz to 10 GHz, Horizontal (Peak)

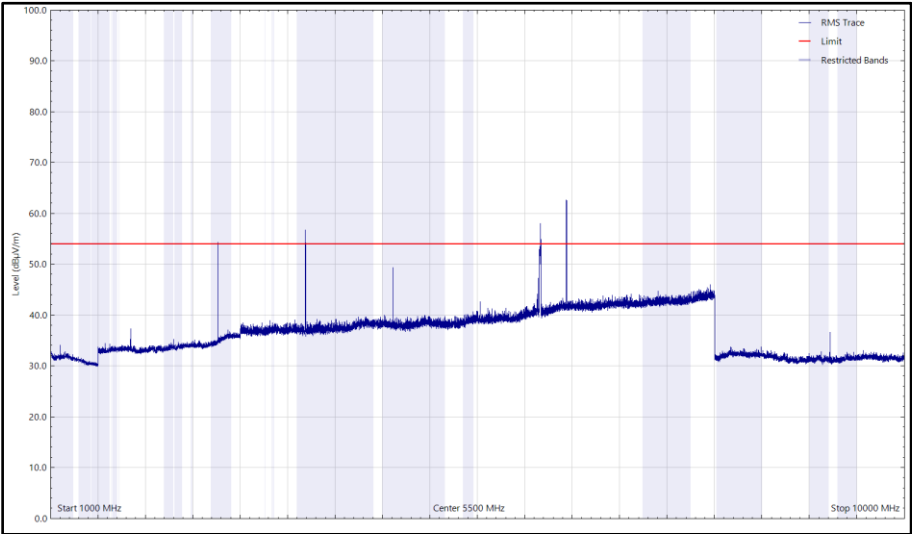


Figure 4 - ISM_UWB, 921.5_6489.6 MHz, 1 GHz to 10 GHz, Horizontal (rms)

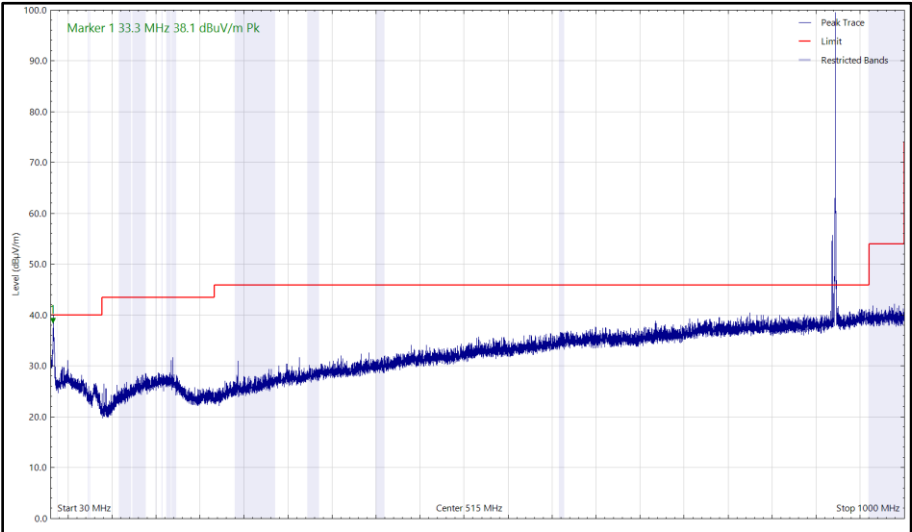


Figure 5 - ISM_UWB, 921.5_6489.6 MHz, 30 MHz to 1 GHz, Vertical (Peak)

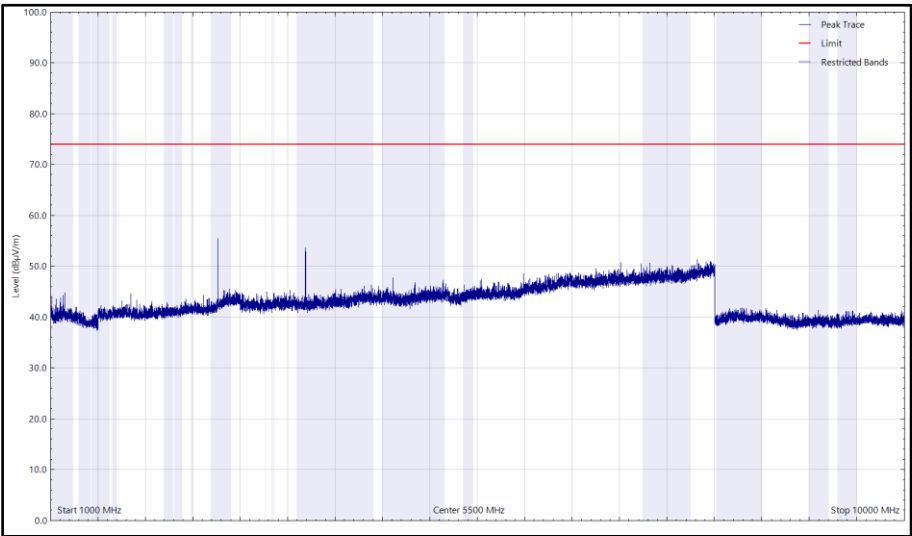


Figure 6 - ISM_UWB, 921.5_6489.6 MHz, 1 GHz to 10 GHz, Vertical (Peak)

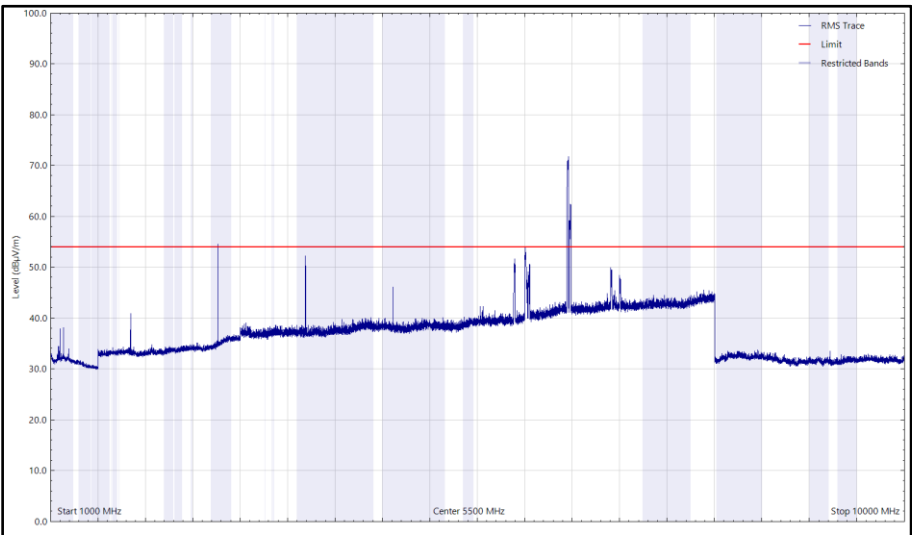


Figure 7 - ISM_UWB, 921.5_6489.6 MHz, 1 GHz to 10 GHz, Vertical (rms)

FCC 47 CFR Part 15 and ISED RSS-247

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

Clause	Limit
Part 15 247 (d) / RSS-247 Clause 5.5	-20 dBc / -30 dBc

Table 19



2.1.8 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
Dual Power Supply Unit	Hewlett Packard	6253A	292	-	O/P Mon
Multimeter	Fluke	177	3812	12	14-Apr-2024
High Pass filter	Wainwright	WHKX12-1290-1500-18000-80SS	4962	12	14-Jun-2024
Test Receiver	Rohde & Schwarz	ESW44	5084	12	31-Aug-2024
Emissions Software	TUV SUD	EmX V3.2.0 V.	5125	-	N/A - Software
3m Semi-Anechoic Chamber	Rainford	RF Chamber 11	5136	36	24-Nov-2024
Mast	Maturo	TAM 4.0-P	5158	-	TU
Mast and Turntable Controller	Maturo	Maturo NCD	5159	-	TU
Turntable	Maturo	TT 15WF	5160	-	TU
Antenna (DRG, 1 GHz to 10.5 GHz)	Schwarzbeck	BBHA9120B	5215	12	09-Jul-2024
3 GHz High pass filter	Wainwright	WHKX12-2580-3000-18000-80SS	5220	12	28-Mar-2024
Pre-Amplifier (1 GHz to 26.5 GHz)	Agilent Technologies	8449B	5445	12	25-May-2024
Thermo-Hygro-Barometer	PCE Instruments	OCE-THB-40	5470	12	20-Apr-2024
Cable (K-Type to K-Type, 1 m)	Junkosha	MWX241-01000KMSKMS/A	5512	12	21-May-2024
Cable (SMA to SMA, 2 m)	Junkosha	MWX221-02000AMSAMS/A	5518	12	14-Apr-2024
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/B	5522	12	14-Apr-2024
Attenuator 4dB	Pasternack	PE7074-4	6201	24	16-Jul-2024
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6635	24	13-Jun-2025

Table 20

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment

3 Photographs

3.1 Test Setup Photographs

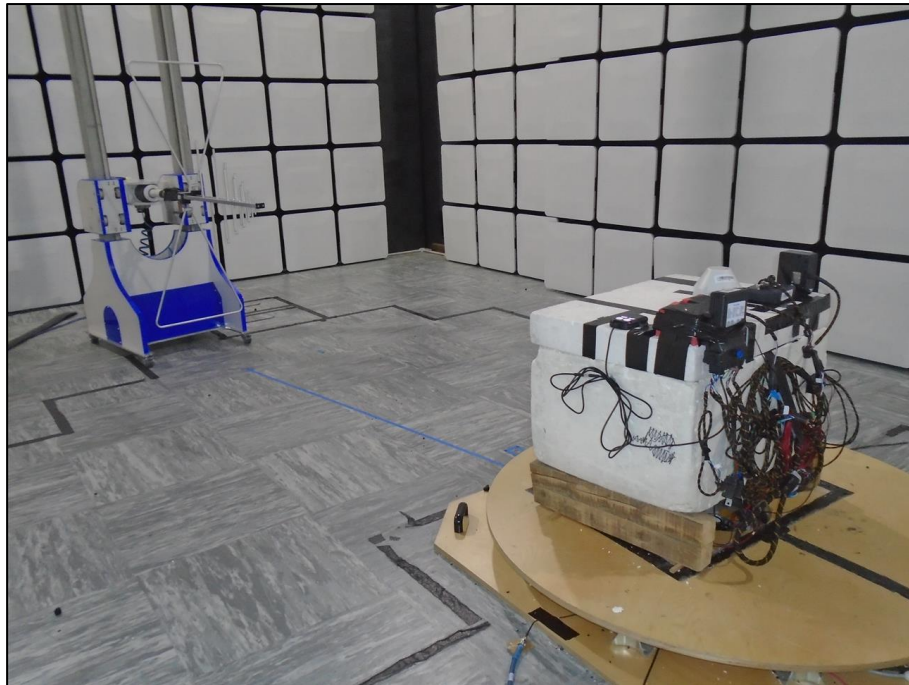


Figure 2 - Test Setup - 30 MHz to 1 GHz

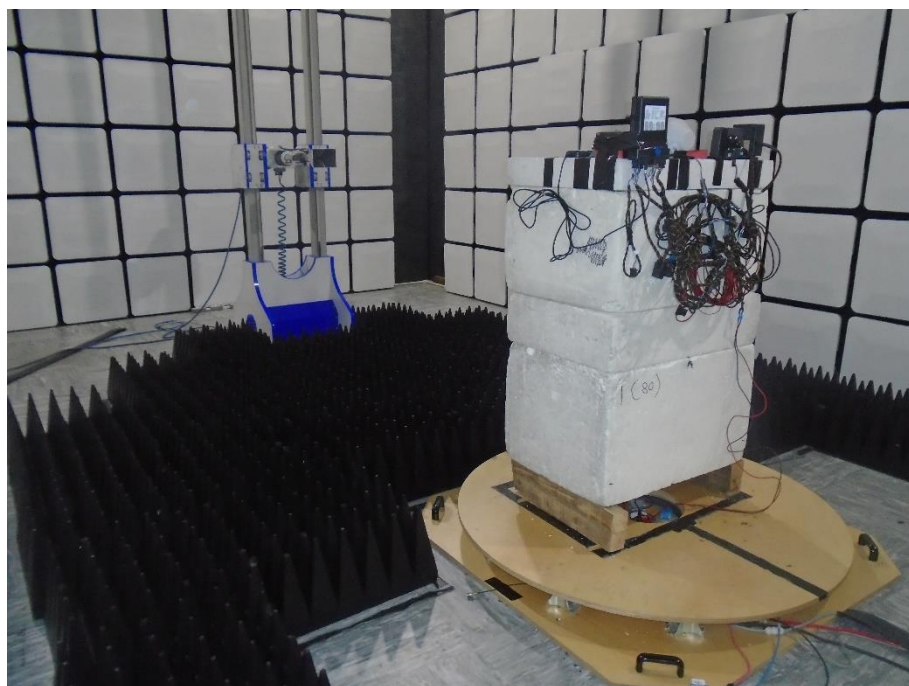


Figure 3 - Test Setup - 1 GHz to 10 GHz



4 Measurement Uncertainty

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

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

Table 21

Measurement Uncertainty Decision Rule – Accuracy Method

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

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