

# Test Report

Report Number:

**F222063E2 2<sup>nd</sup> version**

Equipment under Test (EUT):

**Hino TCU**

Applicant:

**Hino Motors Sales U.S.A., Inc**

Manufacturer:

**Bosch Car Multimedia Portugal SA**



Deutsche  
Akkreditierungsstelle  
D-PL-17186-01-00

## References

- [1] **ANSI C63.4:2014** American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
- [2] **FCC 47 CFR Part 2:** General Rules and Regulations
- [3] **FCC 47 CFR Part 15:** Radio Frequency Devices (Subpart B)
- [4] **ICES-003 Issue 7:** Information Technology Equipment (including Digital Apparatus)

## Test Result

The requirements of the tests performed as shown in the overview (clause 4) were fulfilled by the equipment under test. The complete test results are presented in the following.

“Passed” indicates that the equipment under test conforms with the relevant limits of the testing standard without taking any measurement uncertainty into account as stated in clause 10.2.8.2 of ANSI C63.4 (2014). However, the measurement uncertainty is calculated and shown in this test report.

Tested and written  
by:

Signature

Reviewed and  
approved by:

Signature

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The test results herein refer only to the tested sample. PHOENIX TESTLAB GmbH is not responsible for any generalisations or conclusions drawn from these test results concerning further samples. Any modification of the tested samples is prohibited and leads to the invalidity of this test report. Each page necessarily contains the PHOENIX TESTLAB Logo and the TEST REPORT NUMBER.

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# 1 Identification

## 1.1 Applicant

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Applicant represented during the test by the following person:	None

## 1.2 Manufacturer

Name:	Bosch Car Multimedia Portugal SA
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Country:	Portugal
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Phone:	+351 253 306306
Fax:	N.A.
eMail Address:	Carla.Caridade@pt.bosch.com
Manufacturer represented during the test by the following person:	None

## 1.3 Test Laboratory

The tests were carried out by: **PHOENIX TESTLAB GmbH**  
**Königswinkel 10**  
**32825 Blomberg**  
**Germany**

Accredited by Deutsche Akkreditierungsstelle GmbH (DAkkS) in compliance with DIN EN ISO/IEC 17025 under Reg. No. D-PL-17186-01-06 and D-PL-17186-01-05, FCC Test Firm Designation Number DE0004, FCC Test Firm Registration Number 469623, CAB Identifier DE0003 and ISED# 3469A.

#### 1.4 EUT (Equipment under Test)

Type of equipment: *	Telematics Control Unit
Type / PMN: *	Hino Telematics Control Unit
Product number: *	7620.000.271
Serial number: *	0015496
FCC ID: *	2AXKD-HINOTCU1
IC certification number: *	26600-HINOTCU1
HVIN (Hardware Version Identification Number): *	Hino Telematics Control Unit 1
FVIN (Firmware Version Identification Number): *	N.A.
EUT marking: *	None
PCB identifier: *	8638.924.832
Hardware version: *	8959H01
Software version: *	GENERIC.CCU.22.01.D.018.PRODUCTION

\* Declared by the applicant

Note: PHOENIX TESTLAB GmbH does not take samples. The samples used for tests are provided exclusively by the applicant.

## 1.5 Technical Data of Equipment

EUT data			
Power supply EUT: *	DC		
Supply voltage EUT: *	$U_{nom} = 12.0 \text{ V}$	$U_{min} = 8.0 \text{ V DC}$	$U_{max} = 16.0 \text{ V DC}$
Temperature range: *	-40 °C to +70 °C		
Lowest / highest internal clock frequency: *	32.768 kHz/ 16 MHz / 24 MHz / 26 MHz / 2.480 GHz		

\* Declared by the applicant

Ports / Connectors				
Identification	Connector		Length during test	Shielding (Yes / No)
	EUT	Ancillary		
Antennas	SMB FAKRA plugs	Combined GPS/cellular/WLAN/BT antenna	~ 0.9 m	Yes
Main connector	Customized 24 pin	DC Laboratory plug used for power supply	~ 2.0 m	No
SIM slot	SIM slot	-	-	-
USB	Micro USB port, type B	Test laptop	~ 3 m	Yes

Equipment used for testing	
Cables (Connected to the EUT): *1*3	<ul style="list-style-type: none"> <li>- Main connector-cable (~ 3 m) only connected to DC supply during the tests *3</li> <li>- USB cable – X7601 @ EUT connected to test laptop</li> <li>- X700 – SMB port for WLAN/BT – connected to P407087 antenna during radiated tests.</li> <li>- X7201, X7200, X7000 Cellular connectors + GNSS connector – connected to PP407087 antenna during radiated tests</li> </ul>
Laptop: *1	- LENOVO ThinkPad T14 G2 (S/N: PF38R8H3)
USB Hub*1	- Lindy USB 2.0 Hub 4 Port N°42619
CAN/LIN Interface*1	- Vector VN1630A
Load box*1	- cTP2019 EMC Load Box

\*1 Provided by the applicant

\*2 Provided by the laboratory

\*3 Connected via USB / fibre optic converters to the Laptop PC during the radiated tests in the anechoic chamber.

## 1.6 Dates

Date of receipt of test sample:	06.06.2023
Start of test:	07.06.2023
End of test:	07.06.2023

## 2 Operational States

### Description of function of the EUT:

The product is a telematics control unit integrated into the vehicle. It collects data from the vehicle and the environment via various internal interfaces, processes and sends them over the mobile network customer's backend server.

### The following states were defined as the operating conditions:

The EUT has been connected to a load box through the main connector. To simulate a CAN system, the 3 high speed CAN bus lines have been connected to 3 sensors and forwarded by means of CAN/optical converters to a CAN Vector interface to connect to the laptop outside the semi anechoic chamber.

The USB port from the EUT has been also connected via USB/optical converters to the laptop to simulate a data transmission.

A Kline port was also connected to the laptop through optical converters for simulation.

The cellular module was active during the test.

The RS232 interfaces were terminated.

During the tests the EUT and the load box were powered by 13.5 V DC from a generator.



**Test setup**





**Label plate of the EUT**

### **3 Additional Information**

General information:

The EUT was not appropriately labeled as required by FCC/ISED.

Classification of cables:

- none

Maximum length of cables, declared by the manufacturer:

- no maximum length declared

Type of cables, declared by the manufacturer:

- no special type of cable declared

Deviation of the standard or test plan:

- no deviation

Special EMC measures, as a result of the tests:

- none

## 4 Overview

Conducted emissions FCC 47 CFR Part 15 section 15.107 (a), (b) [3] ICES-003 Issue 7 section 3.2.1[4]					
Application	Frequency range	Limits	Reference standard	Tested EUT	Status
AC supply line Class B	0.15 to 0.5 MHz	66 to 56 dB( $\mu$ V) QP*	ANSI C63.4	-	N.A.
	0.5 to 5 MHz	56 to 46 dB( $\mu$ V) AV*			
	5 to 30 MHz	56 dB( $\mu$ V) QP 46 dB( $\mu$ V) AV 60 dB( $\mu$ V) QP 50 dB( $\mu$ V) AV			
*: Decreases with the logarithm of the frequency					

Radiated emissions FCC 47 CFR Part 15 section 15.109 (a), (b) [3]					
Application	Frequency range	Limits	Reference standard	Tested EUT	Status
Radiated Emission Class B	30 to 88 MHz	40.0 dB( $\mu$ V/m) QP at 3 m	ANSI C63.4	-	Passed
	88 to 216 MHz	43.5 dB( $\mu$ V/m) QP at 3 m			
	216 to 960 MHz	46.0 dB( $\mu$ V/m) QP at 3 m			
	960 to 1000 MHz	54.0 dB( $\mu$ V/m) QP at 3 m			
	above 1000 MHz	54.0 dB( $\mu$ V/m) AV at 3 m and 74.0 dB( $\mu$ V/m) PK at 3 m			

Radiated emissions ICES-003 Issue 7 section 3.2.2 [4]					
Application	Frequency range	Limits	Reference standard	Tested EUT	Status
Radiated Emission Class B	30 to 88 MHz	40.0 dB( $\mu$ V/m) QP at 3 m	ANSI C63.4	-	Passed
	88 to 216 MHz	43.5 dB( $\mu$ V/m) QP at 3 m			
	216 to 230 MHz	46.0 dB( $\mu$ V/m) QP at 3 m			
	230 to 960 MHz	47.0 dB( $\mu$ V/m) QP at 3 m			
	960 to 1000 MHz	54.0 dB( $\mu$ V/m) QP at 3 m			
	above 1000 MHz	54 dB( $\mu$ V/m) AV at 3 m and 74 dB( $\mu$ V/m) PK at 3 m			

Remark: As declared by the applicant the highest generated frequency is the Bluetooth module frequency at 2.480 GHz.  
Therefore the radiated emission measurement has been carried out up to the 5<sup>th</sup> harmonic in this case 13 GHz.

The EUT was classified by the applicant as CLASS B equipment.

## 5 Results

### 5.1 Radiated emissions

#### 5.1.1 Test method

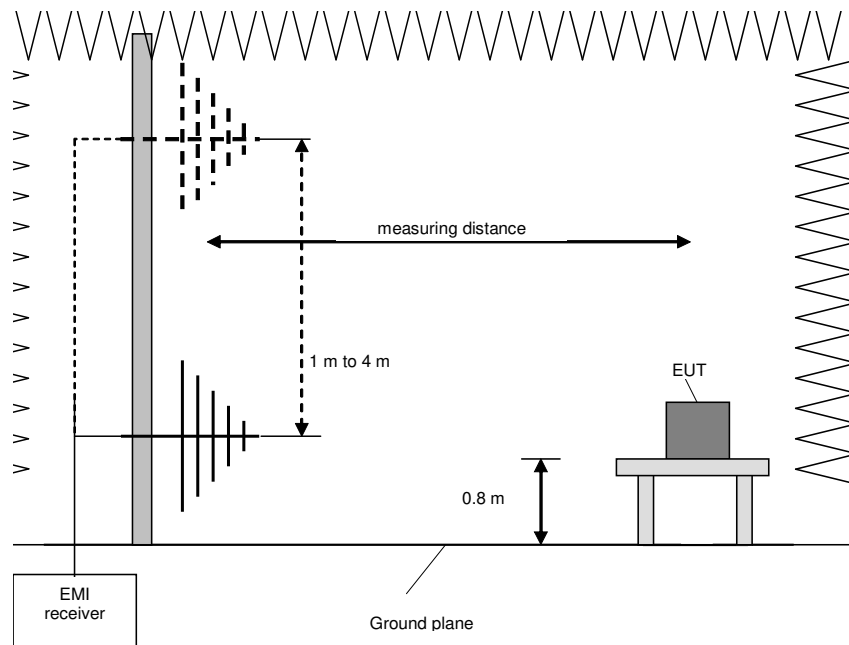
##### Preliminary and final measurement (30 MHz to 1 GHz)

The preliminary and final measurements were conducted in a semi-anechoic chamber with a metal ground plane in a 3 m distance.

During the test the EUT will be rotated in the range of 0 ° to 360 °, the measuring antenna will be set to horizontal and vertical polarization and raised and lowered in the range from 1 m to 4 m to find the maximum level of emissions.

The resolution bandwidth of the EMI Receiver will be set to the following values:

Test	Frequency range	Resolution bandwidth
Preliminary measurement	30 MHz to 1 GHz	100 kHz
Frequency peak search	+ / - 1 MHz	10 kHz
Final measurement	30 MHz to 1 GHz	120 kHz



Procedure preliminary measurement:

The following procedure is used:

1. Set the measurement antenna to 1 m height.
2. Monitor the frequency range at vertical polarisation and a EUT azimuth of 0 °.
3. Rotate the EUT by 360° to maximize the detected signals.
4. Repeat 1) to 2) with the vertical polarisation of the measuring antenna.
5. Increase the height of the antenna for 0.5 m and repeat steps 2 – 4 until the final height of 4 m is reached.
6. The highest values for each frequency will be saved by the software, including the antenna height, measurement antenna polarization and turntable azimuth for that value.

Procedure final measurement:

The following procedure is used:

1. Select the highest frequency peaks to the limit for the final measurement.
2. The software will determine the exact peak frequencies by doing a partial scan with reduced RBW with +/- 10 times the RBW of the pre-scan of the selected peaks.
3. If the EUT is portable or ceiling mounted, find the worst case EUT position (x,y,z) for the final test.
4. The worst measurement antenna height is found by the measurement software by varying the measurement antenna height by +/- 0.5 m from the value obtained in the preliminary measurement, and to monitor the emission level.
5. The worst azimuth turntable position is found by varying the turntable azimuth by +/- 30° from the value obtained in the preliminary measurement, and to monitor the emission level.
6. The final measurement is performed at the worst-case antenna height and the worst-case turntable azimuth
7. Steps 2 – 6 will be repeated for each frequency peak selected in step 1.

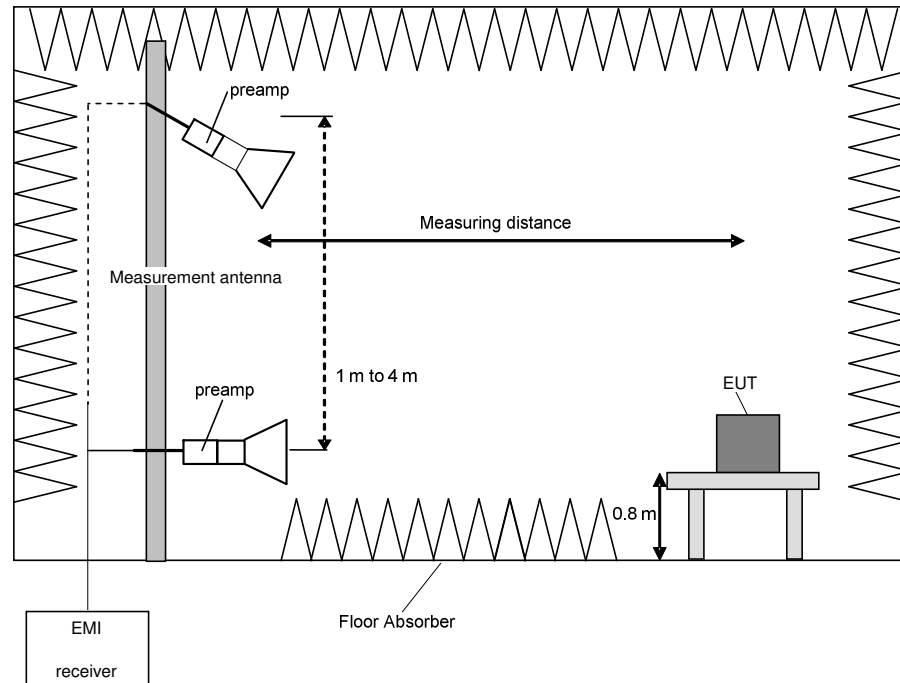
### **Preliminary and final measurement (1 – 40 GHz)**

The preliminary and final measurements were conducted in a semi-anechoic chamber with floor absorbers between EUT and measurement antenna in a 3 m distance.

During the test the EUT will be rotated in the range of 0 ° to 360 °, the measuring antenna will be set to horizontal and vertical polarization and raised and lowered in the range from 1 m to 4 m to find the maximum level of emissions. For each height the angle of the antenna will be tilted so that the measurement antenna is always aiming at the EUT.

The resolution bandwidth of the EMI Receiver will be set to the following values:

Test	Frequency range	Resolution bandwidth
Preliminary measurement	1 - 40 GHz	1 MHz
Frequency peak search	+ / - 10 MHz	100 kHz
Final measurement	1 - 40 GHz	1 MHz



### **Procedure preliminary measurement:**

The following procedure is used:

1. Set the measurement antenna to 1 m height.
2. Monitor the frequency range at vertical polarisation and a EUT azimuth of 0 °.
3. Rotate the EUT by 360° to maximize the detected signals.
4. Repeat 1) to 2) with the vertical polarisation of the measuring antenna.
5. Increase the height of the antenna for 0.5 m and repeat steps 2 – 4 until the final height of 4 m is reached.
6. The highest values for each frequency will be saved by the software, including the antenna height, measurement antenna polarization and turntable azimuth for the highest value.

### **Procedure final measurement:**

The following procedure is used:

1. Select the highest frequency peaks to the limit for the final measurement.
2. The software will determine the exact peak frequencies by doing a partial scan with reduced RBW with +/- 10 times the RBW of the pre-scan of the selected peaks.
3. If the EUT is portable or ceiling mounted, find the worst case EUT orientation (x,y,z) for the final test.
4. The worst measurement antenna height is found by the measurement software by varying the measurement antenna height by +/- 0.5 m from the worst case value obtained in the preliminary measurement, and to monitor the emission level.
5. The worst azimuth turntable position is found by varying the turntable azimuth by +/- 30° from the worst case value obtained in the preliminary measurement, and to monitor the emission level.
6. The final measurement is performed at the worst case antenna height and the worst case turntable azimuth.
7. Steps 2 – 6 will be repeated for each frequency peak selected in step 1.

## 5.1.2 Test results (Maximum unwanted emissions)

### 5.1.2.1 Test results final measurement (radiated 30 MHz to 1 GHz)

Ambient temperature:	23 °C
Relative humidity:	57 %

Date:	07.06.2023
Tested by:	Yassine KHALEK

Position of EUT: For tests for f between 30 MHz and 1 GHz, the EUT was set-up on a table with a height of 80 cm. The distance between EUT and antenna was 3 m.

Cable guide: For detail information of test set-up and the cable guide refer to the pictures in the annex A in the test report.

Test record: Plots for each frequency range are submitted below.

Remark: Operation mode: CAN, K-Line, RS232, Cellular, WLAN, GNSS, USB connected

#### Calculation:

Max Peak [dB $\mu$ V/m] = Reading [dB $\mu$ V] + Correction [dB/m]

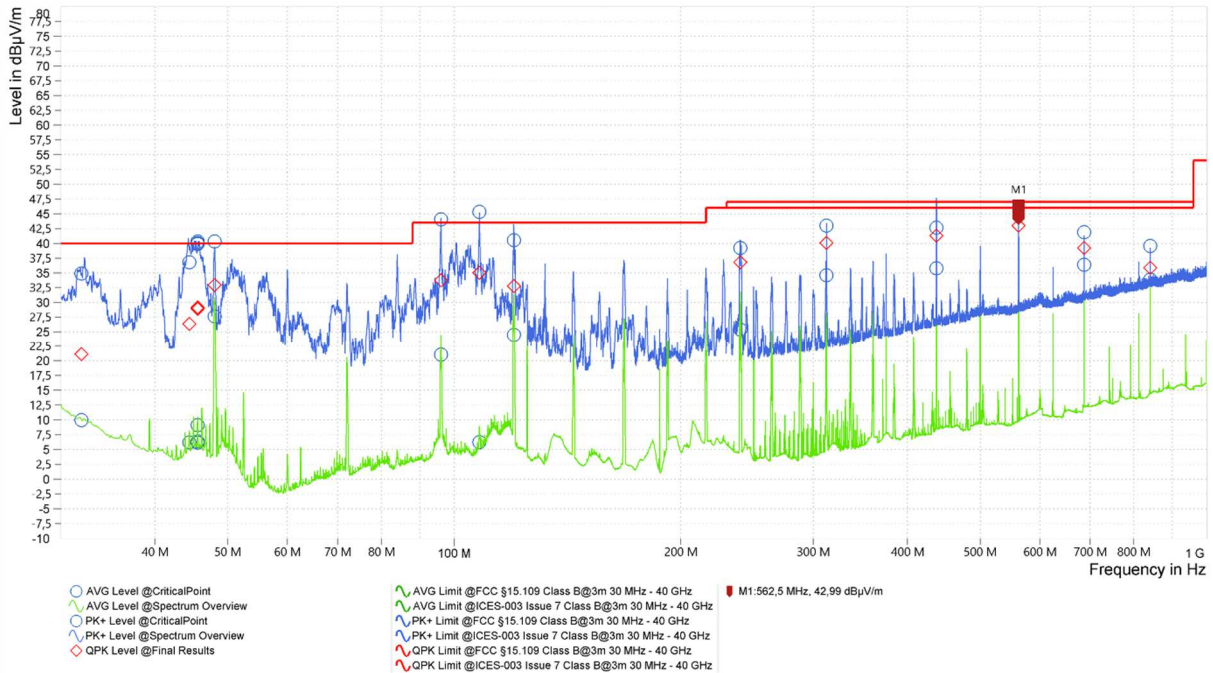
Average [dB $\mu$ V/m] = Reading [dB $\mu$ V] + Correction [dB/m]

Correction [dB/m] = AF [dB/m] + Cable attenuation [dB] + optional preamp gain [dB]+DCCF\* [dB]  
\* (if applicable – only for Average values, that are fundamental related)

Margin [dB] = Limit [dB $\mu$ V/m] – Max Peak | Average [dB $\mu$ V/m]

The results are shown in the following:

Spurious emissions from 30 MHz to 1GHz:



Result according to FCC 47 CFR Part 15 section 15.109 (a), (b) [3]

Frequency [MHz]	QPK Level [dBµV/m]	QPK Limit [dBµV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Meas. Time [ms]
31.95	21.12	40.0	18.88	24.79	V	56.38	1.17	120.0	1,000.000
44.46	26.38	40.0	13.62	17.25	V	55.41	1.06	120.0	1,000.000
45.60	28.92	40.0	11.08	16.51	V	36.42	1.02	120.0	1,000.000
45.60	29.19	40.0	10.81	16.51	V	39.66	1.03	120.0	1,000.000
45.60	29.13	40.0	10.87	16.51	V	31.99	1	120.0	1,000.000
48.03	32.93	40.0	7.07	14.98	V	120.11	1	120.0	1,000.000
96.03	33.75	43.5	9.75	17.14	V	148.44	1.27	120.0	1,000.000
108.00	35.02	43.5	8.48	17.69	V	181.6	1.17	120.0	1,000.000
120.03	32.75	43.5	10.75	17.61	V	163.69	1	120.0	1,000.000
240.03	36.81	46.0	9.19	17.24	H	119.79	1.02	120.0	1,000.000
312.51	40.08	46.0	5.92	19.43	H	134.08	1	120.0	1,000.000
437.49	41.32	46.0	4.68	22.74	V	55.15	1.05	120.0	1,000.000
562.50	42.99	46.0	3.01	25.38	V	177	1	120.0	1,000.000
687.48	39.20	46.0	6.80	27.07	H	156.02	1.06	120.0	1,000.000
841.50	35.88	46.0	10.12	29.40	H	236.52	1.38	120.0	1,000.000

Result according to ICES-003 Issue 7 section 3.2.2 [4]

Frequency [MHz]	QPK Level [dB $\mu$ V/m]	QPK Limit [dB $\mu$ V/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Meas. Time [ms]
31.95	21.12	40.0	18.88	24.79	V	56.38	1.17	120.0	1,000.000
44.46	26.38	40.0	13.62	17.25	V	55.41	1.06	120.0	1,000.000
45.60	28.92	40.0	11.08	16.51	V	36.42	1.02	120.0	1,000.000
45.60	29.19	40.0	10.81	16.51	V	39.66	1.03	120.0	1,000.000
45.60	29.13	40.0	10.87	16.51	V	31.99	1	120.0	1,000.000
48.03	32.93	40.0	7.07	14.98	V	120.11	1	120.0	1,000.000
96.03	33.75	43.5	9.75	17.14	V	148.44	1.27	120.0	1,000.000
108.00	35.02	43.5	8.48	17.69	V	181.6	1.17	120.0	1,000.000
120.03	32.75	43.5	10.75	17.61	V	163.69	1	120.0	1,000.000
240.03	36.81	47.0	10.19	17.24	H	119.79	1.02	120.0	1,000.000
312.51	40.08	47.0	6.92	19.43	H	134.08	1	120.0	1,000.000
437.49	41.32	47.0	5.68	22.74	V	55.15	1.05	120.0	1,000.000
562.50	42.99	47.0	4.01	25.38	V	177	1	120.0	1,000.000
687.48	39.20	47.0	7.80	27.07	H	156.02	1.06	120.0	1,000.000
841.50	35.88	47.0	11.12	29.40	H	236.52	1.38	120.0	1,000.000

Test result: Passed

Test equipment (please refer to chapter 7 for details)
3- 12



### 5.1.2.2 Result final measurement above 1 GHz

Ambient temperature:	23 °C
Relative humidity:	57 %

Date:	07.06.2023
Tested by:	Yassine KHALEK

Position of EUT: For tests for f between 1 GHz and the 5<sup>th</sup> harmonic, the EUT was set-up on a table with a height of 80 cm. The distance between EUT and antenna was 3 m.

Cable guide: For detail information of test set-up and the cable guide refer to the pictures in the annex A in the test report.

Test record: Plots for each frequency range are submitted below.

Remark: Operation mode: CAN, K-Line, RS232, Cellular, WLAN, GNSS, USB connected

Calculation:

Max Peak [dBμV/m] = Reading [dBμV] + Correction [dB/m]

Average [dBμV/m] = Reading [dBμV] + Correction [dB/m]

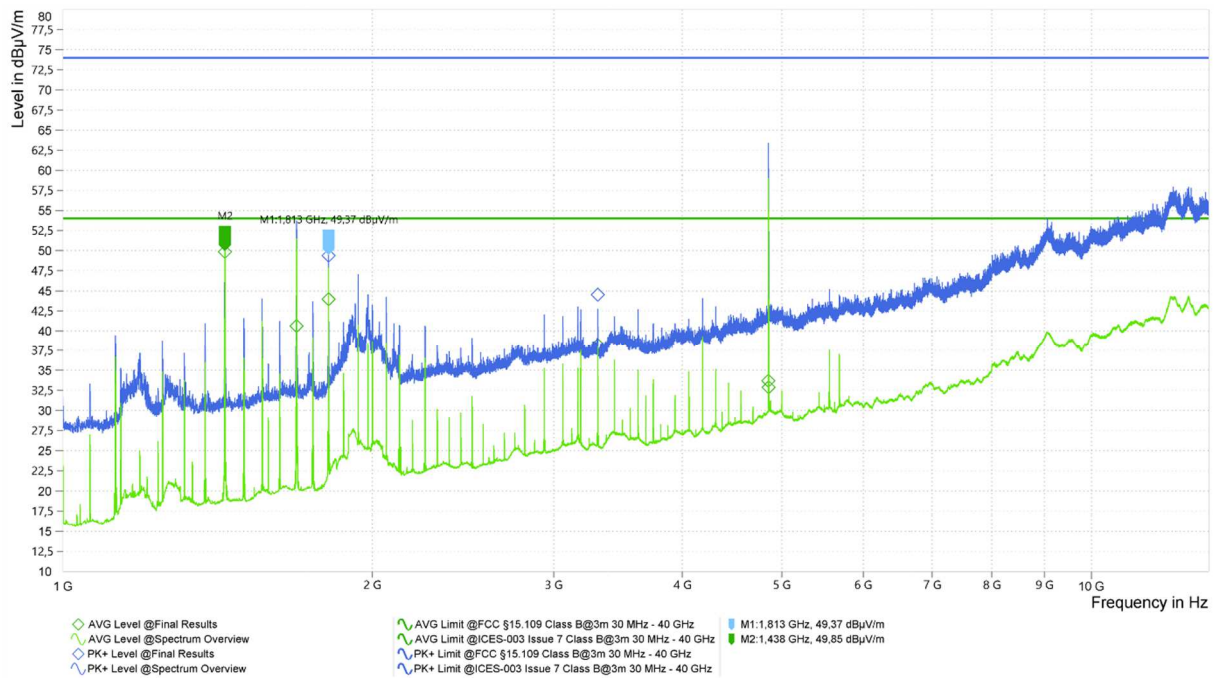
Correction [dB/m] = AF [dB/m] + Cable attenuation [dB] + optional preamp gain [dB]+DCCF\* [dB]  
\* (if applicable – only for Average values, that are fundamental related)

Margin [dB] = Limit [dBμV/m] – Max Peak | Average [dBμV/m]

The curves in the diagram only represent the maximum measured value for each frequency point of all preliminary measurements, which were carried out with various EUT and antenna positions.

The top measured curve represents the peak measurement. The measured points marked with "◇" are frequency points for the final peak detector measurement. These values are indicated in the following table. The bottom measured curve represents the average measurement. The measured points marked with "◇" are frequency points for the final average detector measurement.

Spurious emissions from 1 GHz to 13 GHz:



### Result tables:

Operation mode 1:

Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1437.50	-	-	-	49.85	54.0	4.15	-6.92	H	290.57	2.47	1000.0
4855.00	-	-	-	32.87	54.0	21.13	9.82	V	324.47	2.57	1000.0
4852.25	-	-	-	33.68	54.0	20.32	9.82	V	317.02	2.7	1000.0
1812.50	49.37	74.0	24.63	43.96	54.0	10.04	-4.27	H	326.65	1.4	1000.0
3312.50	44.53	74.0	29.47	38.20	54.0	15.80	3.60	V	279.53	1.63	1000.0
1687.50	-	-	-	40.62	54.0	13.38	-4.81	H	336.33	1.25	1000.0

Test result: Passed

Test equipment (please refer to chapter 7 for details)
1 – 9, 12

## 6 Measurement Uncertainties

Conducted measurements		
Measurement method	Standard used for calculating measurement uncertainty	Expanded measurement uncertainty (95 %) $U_{lab}$
Conducted emissions from 150 kHz to 30 MHz with LISN	CISPR 16-4-2	2.8 dB

Radiated measurements		
Radiated field strength M276		
R&S HL562E @ 3 m 30 MHz – 1 GHz	CISPR 16-4-2	4.8 dB
R&S HL050 @ 3 m	-	
1 – 6 GHz	CISPR 16-4-2	5.1 dB
6 – 18 GHz	CISPR 16-4-2	5.4 dB
Flann Standard Gain Horns 18 – 40 GHz	-	5.9 dB

## 7 Test Equipment used for Tests

No.	Test equipment	Type	Manufacturer	Serial No.	PM. No.	Cal. Date	Cal Due
1	Low Noise Amplifier 100 MHz - 18 GHz	LNA-30- 00101800-25- 10P	Narda-Miteq	2110917	482967	18.02.2022	02.2024
2	Log Per Antenna	HL050	Rohde & Schwarz	4062.4063.02- 100908	482977	22.09.2022	09.2025
3	RF Switch Matrix	OSP220	Rohde & Schwarz		482976	Calibration not necessary	
4	Turntable	TT3.0-3t	Maturo	825/2612/.01	483224	Calibration not necessary	
5	Antennasupport	BAM 4.5-P-10kg	Maturo	222/2612.01	483225	Calibration not necessary	
6	Controller	NCD	Maturo	474/2612.01	483226	Calibration not necessary	
7	System software EM276	EMC32	Rohde & Schwarz	100970	482972	Calibration not necessary	
8	EMI Test receiver	ESW44	Rohde & Schwarz	101828	482979	08.12.2021	12.2023
9	Semi Anechoic Chamber M276	SAC5-2	Albatross Projects	C62128-A540- A138-10-0006	483227	Calibration not necessary	
10	Antenna (Bilog)	HL562E	Rohde & Schwarz	101079	482978	18.03.2021	03.2024
11	Attenuator 6 dB	WA2-6	Weinschel	BG0931	483499	Calibration not necessary	
12	Power Supply	TOE8852 (DC)	Toellner Electronic Inst.	51712	480233	Calibration not necessary	

## 8 Test site Verification

Test equipment	PM. No.	Frequency range	Type of validation	According to	Val. Date	Val Due
Semi anechoic chamber M276	483227	30 – 1000 MHz	NSA/RSM	CISPR 16-1-4 + Cor1:2010 + A1:2012 +A2:2017	01.03.2023	01.03.2025
Semi anechoic chamber M276	483227	1 -18 GHz	SVSWR	CISPR 16-1-4 + Cor1:2010 + A1:2012 +A2:2017	28.02.2023	28.02.2025

## 9 Report History

Report Number	Date	Comment
F222063E2	30.01.2024	Initial Test Report
F222063E2 2 <sup>nd</sup> version	20.02.2024	Minor changes: - Updated HVIN and ICES version - Editorial changes
-	-	-

## 10 List of Annexes

Annex A	Test Setup Photos	3 pages
Annex B	EUT External Photos	2 pages
Annex C	EUT Internal Photos	3 pages