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# Test Report

Report Number:

**F220818E5**

Equipment under Test (EUT):

**NT03 RMI-RD**

Applicant:

**Topcon Electronics GmbH & Co KG**

Manufacturer:

**Topcon Electronics GmbH & Co KG**



Deutsche  
Akkreditierungsstelle  
D-PL-17186-01-01  
D-PL-17186-01-02  
D-PL-17186-01-03

## 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: (October 2020)** Spectrum Management and Telecommunications. Interference-Causing Equipment Standard. Information Technology Equipment (Including Digital Apparatus) —Limits and Methods of Measurement

## 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:

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Signature

**This test report is only valid in its original form.**

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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

Name:	Topcon Electronics GmbH & Co KG
Address:	Industriestr. 7, 65366 Geisenheim
Country:	Germany
Name for contact purposes:	-
Phone:	06722-4026-0
eMail address:	dl-opus-info@topcon.com
Applicant represented during the test by the following person:	

### 1.2 Manufacturer

Name:	Topcon Electronics GmbH & Co KG
Address:	Industriestr. 7, 65366 Geisenheim
Country:	Germany
Name for contact purposes:	-
Phone:	06722-4026-0
eMail address:	dl-opus-info@topcon.com
Manufacturer represented during the test by the following person:	

### 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)

Test object: *	Tractor Terminal
Model name: *	NT03 RMI-RD
Model number: *	OPNT03VA3CAN001
Order number: *	OPNT03VA3CAN001
FCC ID: *	WR4-NT03RMIRD
IC certification number: *	6050B-NT03RMIRD
PMN: *	NT03 RMI-RD
HVIN: *	NT03 RMI-RD
FVIN: *	-

	EUT number		
	1	2	3
Serial number: *	2212312AA	-	-
PCB identifier: *	APNT03MBF01_BA	-	-
Hardware version: *	BA	-	-
Software version: *	4.1.15-nt03-2.2.0-1	-	-

\* Declared by the applicant

One EUT was used for all tests.

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

General			
Power supply EUT: *	DC		
Supply voltage EUT: *	$U_{\text{nom}} = 12 \text{ V}_{\text{DC}}$	$U_{\text{min}} = 5.5 \text{ V}_{\text{DC}}$	$U_{\text{max}} = 16 \text{ V}_{\text{DC}}$
Temperature range: *	-20°C to +70°C		
Lowest / highest internal frequency: *	32768 Hz / 2480 MHz		

\* Declared by the applicant

Bluetooth part			
Fulfils Bluetooth specification: *	Bluetooth 4.2		
Operating frequency range: *	2402 to 2480 MHz		
Number of channels: *	Bluetooth: 79		
Type of modulation: *	Bluetooth: 1 Mbps: GFSK, 2 Mbps: π/4-DQPSK, 3 Mbps: 8DPSK		
Power supply BT module: *	DC		
Supply voltage BT module: *	$U_{\text{nom}} = 1.8 \text{ V}$	$U_{\text{min}} = 1.62 \text{ V}$	$U_{\text{max}} = 1.92 \text{ V}$
Antenna type: *	2.4 GHz Flex PCB Antenna with 105mm 1.37mm coaxial cable		
Antenna name: *	FXP76B.07.0105C.et		
Antenna gain: *	3.8 dBi (typical)		
Antenna connector: *	U.FL		

\* Declared by the applicant

Ports / Connectors				
Identification	Connector		Length during test	Shielding (Yes / No)
	EUT	Ancillary		
Vcc	Amphenol AMPSEAL 23 Pin	Banana plug (4 mm)	1.85 m	No
RS232	DSub (RS232)	DSub (RS232)	1.85 m	No
CAN 1 - 4	DSub (RS232)	DSub (RS232)	1.85 m	No
Digital IO	Amphenol AMPSEAL 23 Pin	Banana plug (4 mm)	1.85 m	No
Frequency input	Amphenol AMPSEAL 23 Pin	Banana plug (4 mm)	1.85 m	No
Analog input	Amphenol AMPSEAL 23 Pin	Banana plug (4 mm)	1.85 m	No
Automotive Ethernet	M8	M8	2 m	No
Video	M12	M12	2 m	Yes
USB 2.0	USB (Type A)	Mini-USB	0.3 m	Yes

Equipment used for testing	
Power supply: *2	Vehicular battery (12V)
Loadbox: *1	Loadbox custom
Camera: *1	Motec Model: MC3090B-4
CAN adapter	PEAK CAN adapter (IPEH-002022 44524)
CAN transceiver: *2	optoCAN-FD (PM 483642, 482114)
LAN transceiver: *2	optoLAN-TJA1100-MAX (PM 482928)
Laptop: *1	Dell Latitude E5510
USB test plug: *1	PassMark PMUSB02 (rev2.1)

\*1 Provided by the applicant

\*2 Provided by the laboratory

Ancillary equipment	
-	-

## 1.6 Dates

Date of receipt of test sample:	17.05.2022
Start of test:	13.06.2022
End of test:	13.06.2022

## 2 Operational States

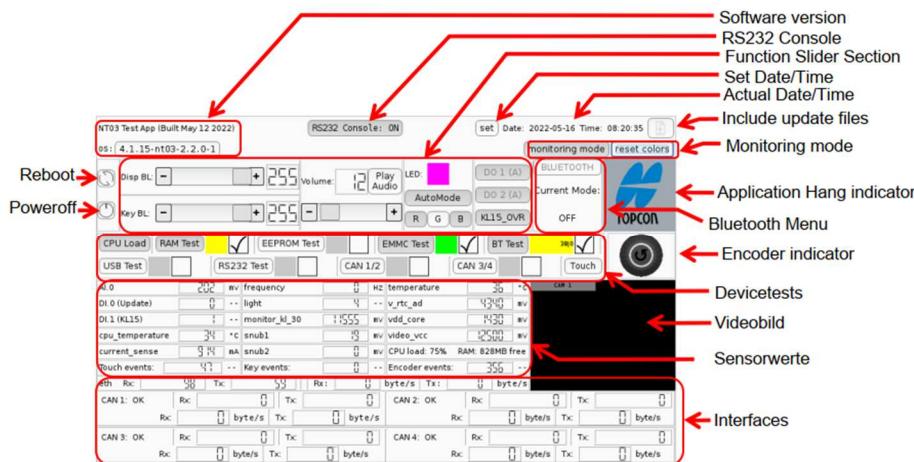
### Description of function of the EUT:

The EUT is human interface device for vehicular use cases in the agriculture market. Bluetooth is used for data transfer between the EUT and a second device similar to the EUT, as well as other controllers.

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

The EUT was supplied by 12 V DC during all tests.

During all tests, software (delivered by the applicant) was used to monitor the functions of the EUT.



#### Bluetooth:

Bluetooth radio part was active, but not connected (standby).

#### LAN:

The LAN function of the EUT was monitored via ping command.

#### CAN:

The CAN bus was internally looped, two CAN interfaces were monitored externally.

#### Analog and digital IO ports.

IO ports were active and connected to the loadbox.

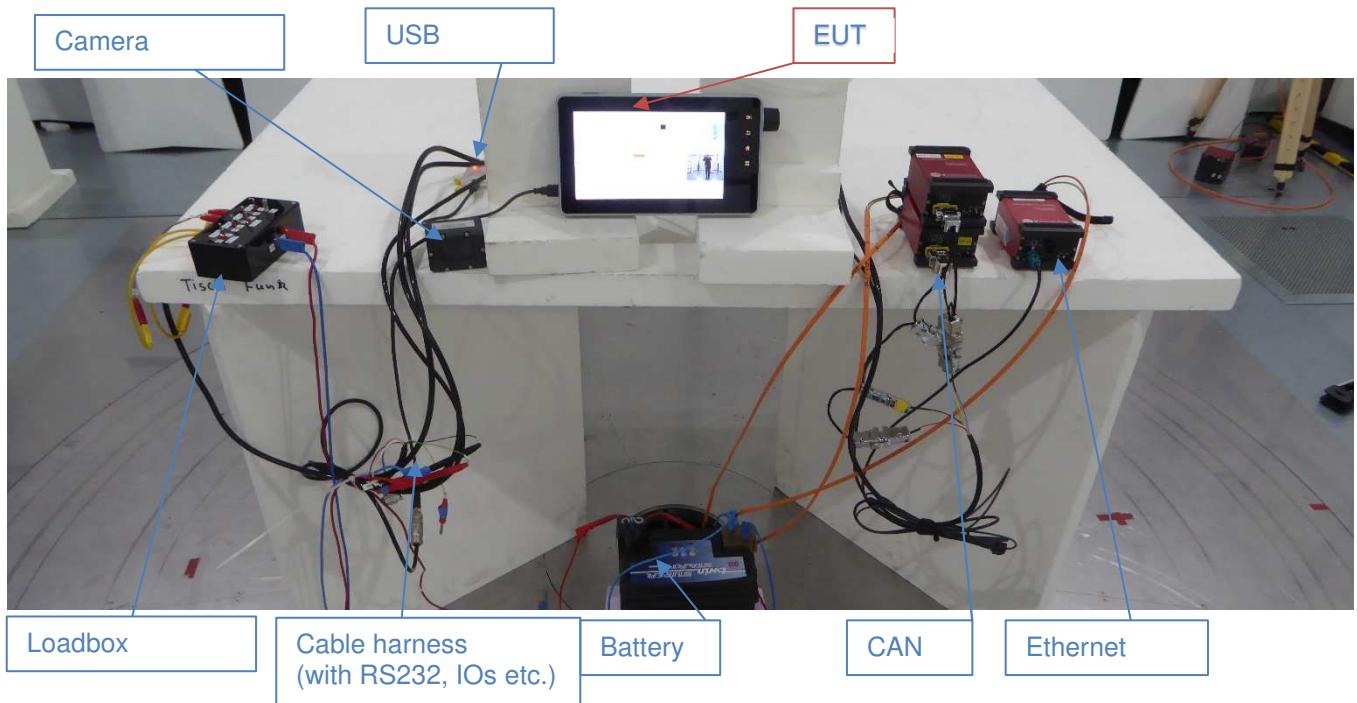
#### Camera:

The camera was active and recording a video signal.

#### RS232:

RS232 was internally looped.

The system was setup as follows:



### 3 Additional Information

The EUT was not labeled as required by FCC / IC.

## 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 A	0.15 to 0.5 MHz 0.5 to 30 MHz	79 dB(µV) QP 66 dB(µV) AV 73 dB(µV) QP 60 dB(µV) AV	ANSI C63.4	-	-

\*: 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 A	30 to 88 MHz 88 to 216 MHz 216 to 960 MHz 960 to 1000 MHz above 1000 MHz	39.0 dB(µV/m) QP at 10 m 49.5 dB(µV/m) QP at 3 m* 43.5 dB(µV/m) QP at 10 m 54.0 dB(µV/m) QP at 3 m* 46.5 dB(µV/m) QP at 10 m 56.9 dB(µV/m) QP at 3 m* 49.5 dB(µV/m) QP at 10 m 60.0 dB(µV/m) QP at 3 m*  49.5 dB(µV/m) AV at 10 m and 69.5 dB(µV/m) PK at 10 m 60.0 dB(µV/m) AV at 3 m* and 80.0 dB(µV/m) PK at 3 m*	ANSI C63.4	1	Passed

\* see 47 CFR 15.109(g)(2) for details

Radiated emissions ICES-003 Issue 7 section 3.2.2 [4]					
Application	Frequency range	Limits	Reference standard	Tested EUT	Status
Radiated Emission Class A	30 to 88 MHz 88 to 216 MHz 216 to 230 MHz 230 to 960 MHz 960 to 1000 MHz  above 1000 MHz	50.0 dB(µV/m) QP at 3 m 54.0 dB(µV/m) QP at 3 m 56.9 dB(µV/m) QP at 3 m 57.0 dB(µV/m) QP at 3 m 60.0 dB(µV/m) QP at 3 m  60 dB(µV/m) AV at 3 m and 80 dB(µV/m) PK at 3 m	ANSI C63.4	1	Passed

Remark: As declared by the applicant the highest internal clock frequency is 2.48 GHz.

Therefore the radiated emission measurement must be carried out up to 5<sup>th</sup> of the highest internal clock frequency up to 13 GHz, in this case the measurement was carried out up to 13 GHz.

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

## 5 Results

### 5.1 Test setups

#### 5.1.1 Radiated: 30 MHz to 1 GHz

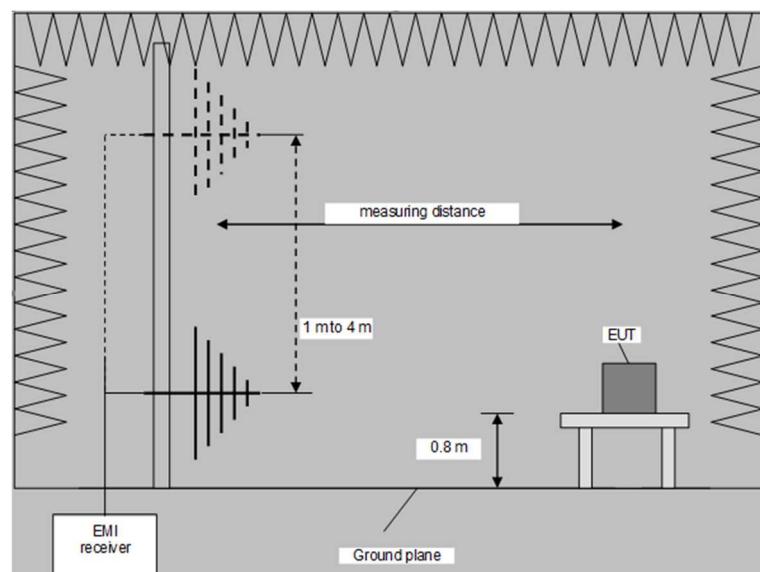
##### 5.1.1.1 Preliminary and final measurement 30 MHz to 1 GHz

The preliminary and final measurements are performed in a semi-anechoic chamber with a metal ground plane at a measuring distance of 3 meters. Table-top devices are set up on a non-conducting support with a size of 1 m by 1.5 m and a height of 80 cm. Floor-standing devices are placed directly on the turntable / ground plane. The setup of the equipment under test is in accordance with [1].

During the tests the EUT is rotated in the range of 0 ° to 360 °, the measuring antenna is 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 is set to the following values:

Test	Frequency range	Step-size	Resolution bandwidth	Measuring time	Detector
Preliminary measurement	30 MHz to 1 GHz	30 kHz	120 kHz	-	Peak Average
Frequency peak search	± 120 kHz	10 kHz	120 kHz	1 s	Peak
Final measurement	30 MHz to 1 GHz	-	120 kHz	1 s	QuasiPeak



Procedure preliminary measurement:

The following procedure is used:

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

Procedure final measurement:

The following procedure is used:

- 1) Select the highest frequency peaks (lowest margin to the limit) for the final measurement.
- 2) The software determines the exact peak frequencies by doing a partial scan with reduced step size 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-case measuring antenna height is found via varying the height by +/- 0.5 m from the value obtained in the preliminary measurement while monitoring the emission level.
- 5) The worst-case turntable position is found via varying the turntable azimuth by +/- 30° from the value obtained in the preliminary measurement while monitoring the emission level.
- 6) The final measurement is performed at the worst-case measuring antenna height and the worst-case turntable azimuth.
- 7) Steps 2 to 6 are repeated for each frequency peak selected in step 1.

### 5.1.2 Radiated: 1 GHz to 40 GHz

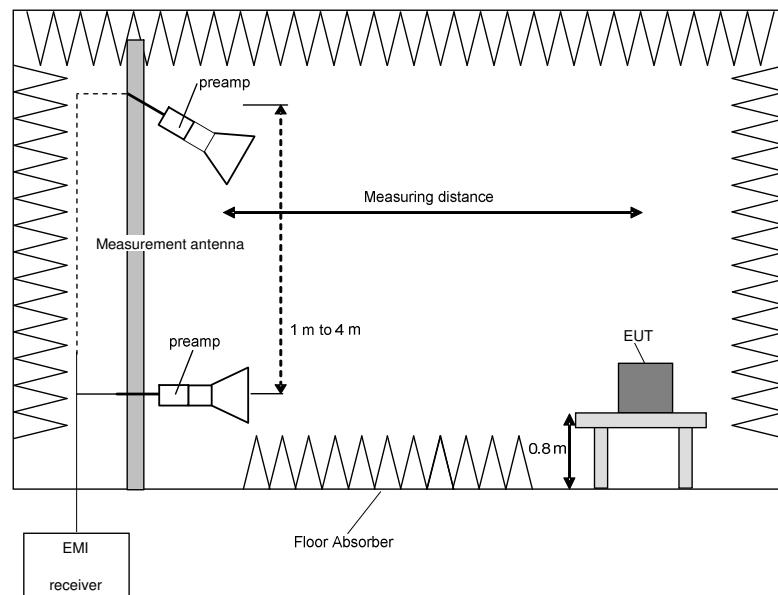
#### 5.1.2.1 Preliminary and final measurement 1 to 40 GHz

The preliminary and final measurements are performed in a semi-anechoic chamber at a measuring distance of 3 meters, with floor absorbers between EUT and measuring antenna. Table-top devices are set up on a non-conducting support with a size of 1 m by 1.5 m and a height of 80 cm. Floor-standing devices are placed directly on the turntable / ground plane. The setup of the equipment under test is in accordance with [1].

During the tests the EUT is rotated in the range of 0 ° to 360 °, the measuring antenna is 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. While changing the height, the measuring antenna gets tilted so that it is always aiming at the EUT.

The resolution bandwidth of the EMI receiver is set to the following values:

Test	Frequency range	Step-size	Resolution bandwidth	Measuring time	Detector
Preliminary measurement	1 - 40 GHz	250 kHz	1 MHz	-	Peak Average
Frequency peak search	+ / - 1 MHz	50 kHz	1 MHz	100 ms	Peak
Final measurement	1 - 40 GHz	-	1 MHz	100 ms	Peak Average



#### Procedure preliminary measurement:

The following procedure is used:

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

#### Procedure final measurement:

The following procedure is used:

- 1) Select the highest frequency peaks (lowest margin to the limit) for the final measurement.
- 2) The software determines the exact peak frequencies by doing a partial scan with reduced step size 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-case measuring antenna height is found via varying the height by +/- 0.5 m from the value obtained in the preliminary measurement while monitoring the emission level.
- 5) The worst-case turntable position is found via varying the turntable azimuth by +/- 30° from the value obtained in the preliminary measurement while monitoring the emission level.
- 6) The final measurement is performed at the worst-case measuring antenna height and the worst-case turntable azimuth.
- 7) Steps 2 to 6 are repeated for each frequency peak selected in step 1.

## 5.2 Radiated emissions

### 5.2.1 Test setup (Maximum unwanted emissions)

Test setup (Maximum unwanted emissions)			
Used	Setup	See sub-clause	Comment
<input checked="" type="checkbox"/>	Radiated: 30 MHz to 1 GHz / 1 GHz to 40 GHz	5.1.1 / 5.1.2	-

### 5.2.2 Test method (Maximum unwanted emissions)

Test method (radiated) see sub-clause 5.1.1 / 5.1.2 as described herein

### 5.2.3 Test results (Maximum unwanted emissions)

#### 5.2.3.1 Test results (30 MHz – 1 GHz)

Ambient temperature:	23 °C	Date:	13.06.2022
Relative humidity:	41 %	Tested by:	B. ROHDE

Position of EUT: For tests for f between 30 MHz to 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: All 3 orthogonal planes were tested separately

Calculations:

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

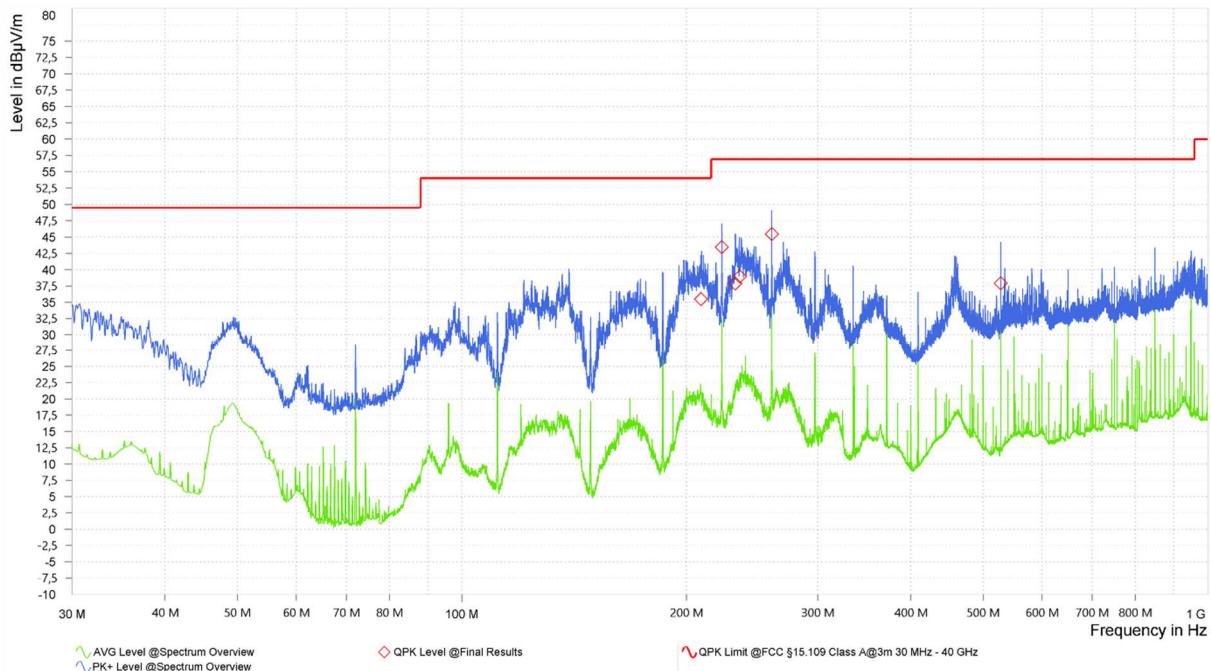
Correction [dB/m] = AF [dB/m] + Cable attenuation [dB] + optional preamp gain [dB]

Margin [dB] = Limit [dB $\mu$ V/m] - Result [dB $\mu$ V/m]

The measured points and the limit line in the following diagram refer to the standard measurement of the emitted interference in compliance with the above-mentioned standard. The measured points marked with “ $\diamond$ ” are the measured results of the standard subsequent measurement in a semi-anechoic chamber.

**FCC §15.109 Class A@3m:  
Worst case plot:**

Spurious emissions from 30 MHz to 1 GHz (operation mode 1):



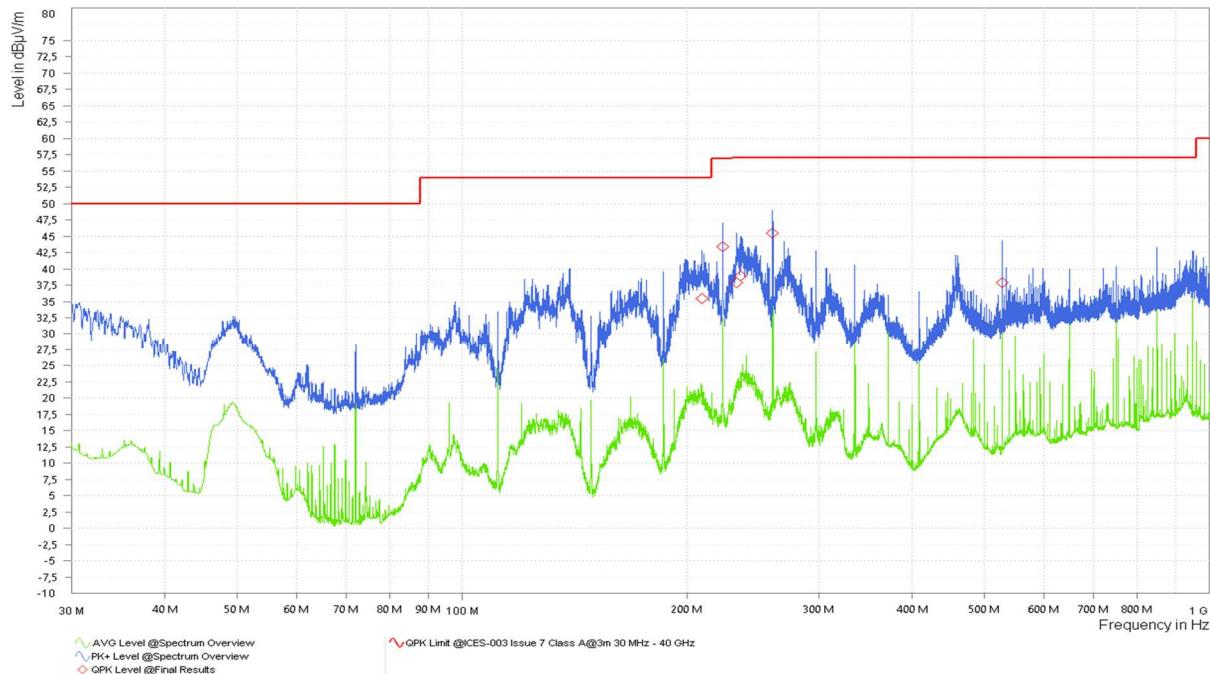
**Result tables:**

(Operation mode 1):

Frequency [MHz]	Result (QP) [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Correction [dB/m]	Height [m]	Azimuth [deg]	Pol. (H/V)	Position #
209.220	35.5	54.0	18.5	16.3	1.44	102	H	1
223.170	43.4	56.9	13.5	16.1	1.40	106	H	1
232.710	37.9	56.9	19.0	16.9	1.29	84	H	1
235.920	38.9	56.9	18.0	17.1	1.39	82	H	1
260.370	45.4	56.9	11.5	17.9	1.19	90	H	1
527.940	37.9	56.9	19.0	24.8	1.00	-2	V	1

**ICES-003 Class A@3m:  
Worst case plot:**

Spurious emissions from 30 MHz to 1 GHz (operation mode 1):



**Result tables:**

(Operation mode 1):

Frequency [MHz]	Result (QP) [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Correction [dB/m]	Height [m]	Azimuth [deg]	Pol. (H/V)	Position #
209.220	35.5	54.0	18.5	16.3	1.44	102	H	1
223.170	43.4	56.9	13.5	16.1	1.40	106	H	1
232.710	37.9	57.0	19.1	16.9	1.29	84	H	1
235.920	38.9	57.0	18.1	17.1	1.39	82	H	1
260.370	45.4	57.0	11.6	17.9	1.19	90	H	1
527.940	37.9	57.0	19.1	24.8	1.00	-2	V	1

Test result: Passed

Test equipment (please refer to chapter 7 for details)
1 - 9

### 5.2.3.2 Test results (radiated 1 to 40 GHz)

Ambient temperature:	23 °C
Relative humidity:	41 %

Date:	13.06.2022
Tested by:	B. ROHDE

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: Only normal position was tested

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)

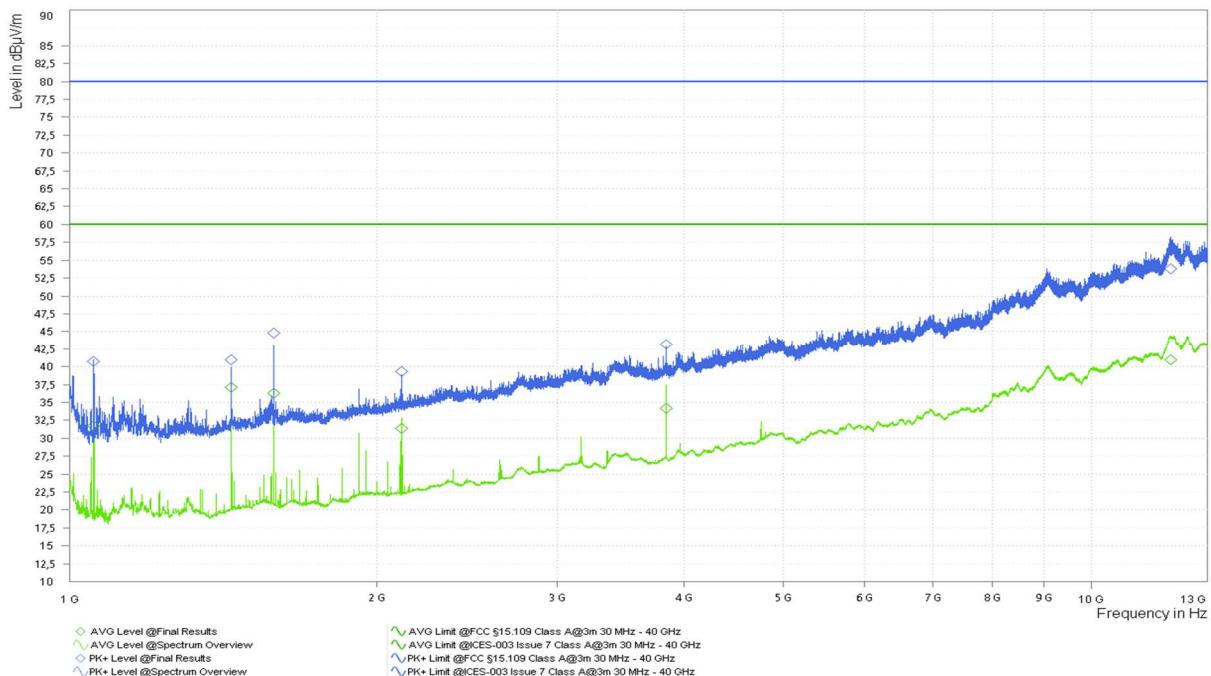
Margin [dB] = Limit [dB $\mu$ V/m] – Max Peak | Average [dB $\mu$ V/m]

The 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.

### Worst case plots:

Spurious emissions from 1 GHz to 13 GHz (operation mode 1):



### 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]	Height [cm]	Pol [H/V]	Azimuth [deg]
1,056.250	40.7	80.0	39.3	31.8	60.0	28.2	-10.3	160	H	-3
1,440.250	41.0	80.0	39.0	37.0	60.0	23.0	-6.9	193	V	282
1,584.000	44.8	80.0	35.2	36.3	60.0	23.7	-5.7	247	H	292
2,111.750	39.3	80.0	40.7	31.4	60.0	28.6	-2.3	199	H	267
3,840.250	43.2	80.0	36.8	34.2	60.0	25.8	5.3	250	V	197
11,958.000	53.8	80.0	26.2	40.9	60.0	19.1	23.3	240	H	205

Test result: Passed

Test equipment (please refer to chapter 7 for details)
3 - 11

## 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	Attenuator 6 dB	WA2-6	Weinschel		482793	Calibration not necessary	
2	Ultralog Antenna	HL562E	Rohde & Schwarz	101079	482978	18.03.2021	03.2024
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	Semi Anechoic Chamber M276	SAC5-2	Albatross Projects	C62128-A540-A138-10-0006	483227	Calibration not necessary	
8	Testsoftware M276	EMC32 V11.30	Rohde & Schwarz	100970	482972	Calibration not necessary	
9	EMI Testreceiver	ESW44	Rohde & Schwarz	101828	482979	08.12.2021	12.2023
10	Low Noise Amplifier 100 MHz - 18 GHz	LNA-30-00101800-25-10P	Narda-Mited	2110917	482967	18.02.2022	02.2024
11	Log.-Per. antenna	HL050	Rohde & Schwarz	100908	482977	22.09.2022	09.2025

## 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	03.03.2021	02.03.2023
Semi anechoic chamber M276	483227	1 -18 GHz	SVSWR	CISPR 16-1-4 + Cor1:2010 + A1:2012 +A2:2017	25.02.2021	24.02.2023

## 9 Report History

Report Number	Date	Comment
F220818E5	20.02.2023	Initial Test Report
-	-	-
-	-	-

## 10 List of Annexes

Annex A

Test Setup Photos

2 pages