

Report on the FCC and IC Testing of the Marquardt GmbH

Model: OR1

In accordance with FCC 47 CFR Part 15 C and ISSED RSS-210 and ISSED RSS-Gen

Prepared for: Marquardt GmbH
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Germany

FCC ID: IYZOR1
IC: 2701A-OR1



Product Service

Add value.
Inspire trust.

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Date: 2026-03-02

Document Number: TR-713354185-05 | Revision 1

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Project Management	Alexander Deese	2026-03-02	 SIGN-ID 1112037
Authorised Signatory	Alex Fink	2026-03-02	 SIGN-ID 1112049

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

Engineering Statement:

This measurement 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 C and ISSED RSS-210 and RSS-GEN.

The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Alexander Deese	2026-03-02	 SIGN-ID 1112037

Laboratory Accreditation

DAkS Reg. No. D-PL-11321-11-03

DAkS Reg. No. D-PL-11321-11-04

Laboratory recognition

Registration No. BNetzA-CAB-16/21-15

Industry Canada test site registration

3050A-2

Executive Statement:

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15 C:2024 and ISSED RSS-210, Issue 11:2024 and ISSED RSS-Gen, Issue 5 + Amd. 2:2021



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TR-713354185-05 | Annexes | Revision 0:

Annex A: Photographs of Test Setup

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1 Report Summary

1.1 Modification Report

Alternations and additions to this report will be issued to the holders of each copy in the form of a complete document. The current version replaces all previous versions.

<i>Revision</i>	<i>Description of changes</i>	<i>Date of Issue</i>
0	First Issue	2026-02-09
1	Related Documents corrected to ANSI C63.10:2020.	2026-03-02

Table 1: Report of Modifications

1.2 Introduction

Applicant	Marquardt GmbH
Manufacturer	Marquardt GmbH
Model Number(s)	OR1
Serial Number(s)	---
Hardware Version(s)	---
Software Version(s)	---
Number of Samples Tested	1
Test Specification(s) / Issue / Date	FCC 47 CFR Part 15 C : 2024 and ISED RSS-210, Issue 11, : 2024 ISED RSS-Gen, Issue 5 + Amd. 2 : 2021
Test Plan/Issue/Date	Test mode Description of NH2; Version 1.1
Order Number	6200727724
Date	2024-12-09
Date of Receipt of EUT	2025-10-10
Start of Test	2025-10-17
Finish of Test	2025-10-17
Name of Engineer(s)	Michael Ingerl, Alexander Deese
Related Document(s)	ANSI C63.10:2020



1.3 Brief Summary of Results

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

Section	Specification Clause	Test Description	Result
2.1	15.203	Antenna requirement	Pass - Integrated
2.2	15.215(c)	Bandwidth of Signal	Pass
---	15.207	Conducted Disturbance at Mains Terminal	Not applicable
2.3	15.209, 15.225	Radiated Disturbance	Pass
2.4	15.225(e)	Frequency Tolerance	Pass

Table 2: Results according to FCC 47 CFR Part 15 C

Section	Specification Clause	Test Description	Result
2.3	7.3	Radiated Emissions	Pass
---	7.3	AC Power Line Conducted Emissions	Not applicable
2.4	B.6 b.	Frequency Tolerance	Pass

Table 3: Results according to ISED RSS-210

Section	Specification Clause	Test Description	Result
2.2	6.7	Bandwidth of Signal	Pass
---	8.8	AC Power Line Conducted Emissions	Not applicable
2.3	8.9, 8.10	Radiated Emissions	Pass
2.4	6.11	Frequency Tolerance	Pass

Table 4: Results according to ISED RSS-Gen



1.4 Product Information

1.4.1 Technical Description

The OR1 is a NFC reader module mounted on the B-pillar of the car. It uses the NFC technology to grant access to the car. The OR1 connects to smartphones, wearables and NFC tags to authorize door opening.

The OR1 acts as an interface between car electronics control Unit and applications on NFC devices. The car ECU requests the OR1 which communicates with the NFC device on the integrated antenna using a magnetic field.

<i>Frequency Band</i>	13.110 – 14.010 MHz
<i>Number of frequency channels:</i>	1
<i>Supply Voltage:</i>	12 V
<i>Supply Frequency:</i>	DC (0 Hz)
<i>Highest clock frequency (radio part):</i>	13.56 MHz
<i>Highest clock frequency (non-radio part):</i>	---
<i>Antenna:</i>	Integrated PCB loop antenna, approx.. 30 x 25 mm

1.4.2 List of Antennas

The EUT has a dedicated integrated antenna.



1.5 Test Configuration

The EUT was configured in stand-alone mode.

1.6 Modes of Operation

Tests were performed with the EUT continuously polling and with the EUT continuously reading a tag.

1.7 EUT Modifications Record

The table below details modifications made to the EUT during the test program.
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
0	As supplied by the customer	Not Applicable	Not Applicable

Table 5

1.8 Test Location

TÜV SÜD Product Service conducted the following tests at our Straubing test laboratory:

Test Name	Name of Engineer(s)
Antenna requirement	Alexander Deese
Bandwidth of Signal	Alexander Deese
Radiated Disturbance	Michael Ingerl
Frequency Tolerance	Alexander Deese

Office Address:

Äußere Frühlingstraße 45
94315 Straubing
Germany



2 Test Details

2.1 Antenna requirement

2.1.1 Specification Reference

FCC 47 CFR Part 15 C, Clauses 15.203

2.1.2 Equipment under Test and Modification State

OR1; S/N ---; Modification State 0

2.1.3 Date of Test

2025-11-11

2.1.4 Specification Limits

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some fields disturbance sensors, or to other intentional radiators which must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits are not exceeded.

2.1.5 Test Results

<i>Antenna connector type:</i>	Not applicable – integrated antenna
<i>Antenna connector impedance:</i>	N/A

See “External Photos of EUT” in Annex B for details.



2.2 Bandwidth of Signal

2.2.1 Specification Reference

FCC 47 CFR Part 15 C, Clause 15.215(c)
ISED RSS-Gen, Clause 6.7

2.2.2 Equipment under Test and Modification State

OR1; S/N ---; Modification State 0

2.2.3 Date of Test

2025-10-22

2.2.4 Environmental Conditions

Ambient Temperature	23 °C
Relative Humidity	45 %

2.2.5 Specification Limits

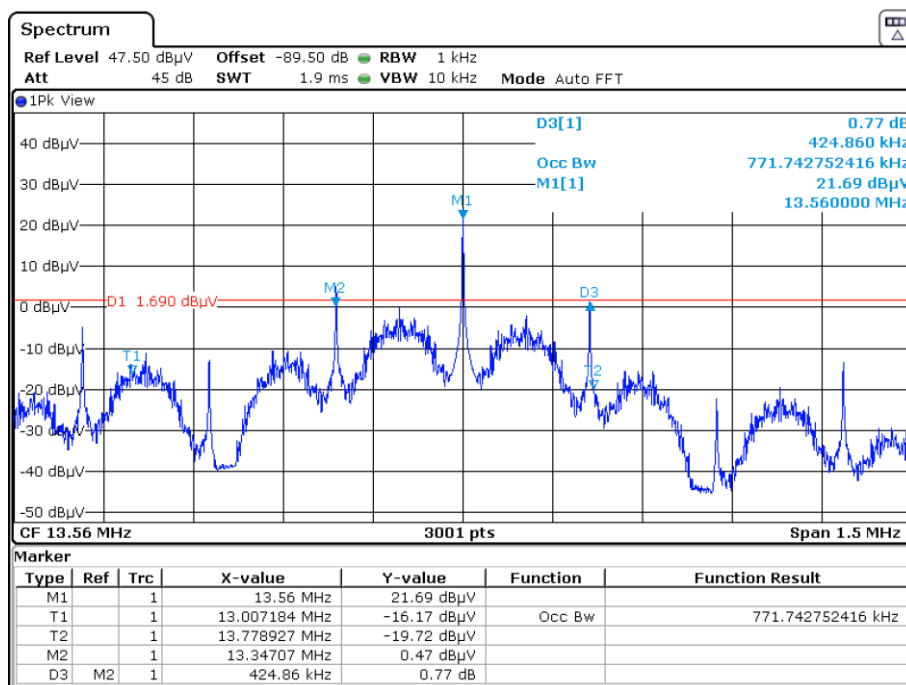
No limitation – Bandwidth noted

2.2.6 Test Method

The test was performed according to ANSI C63.10, clauses 6.9
See section 2.3 of this test report for details.



2.2.7 Test Results



Date: 21.OCT.2025 17:53:42

Center frequency	20 dB Bandwidth
13.56 MHz	424.86 kHz

Table 6: 20 dB bandwidth

Centre Frequency	99% Bandwidth
13.56 MHz	771.743 kHz

Table 7: 99% bandwidth



Product Service

2.2.8 Test Location and Test Equipment

The test was carried out in radio test laboratory

Instrument	Manufacturer	Type No	TE No	Calibra- tion Pe- riod (months)	Calibration Due
Signal and Spectrum Analyzer	Rohde & Schwarz	FSV40	20219	24	2026-03-31

Table 8



2.3 Radiated Emissions

2.3.1 Specification Reference

FCC 47 CFR Part 15 C, Clauses 15.205, 15.209 and 15.225
ISED RSS-210, Clause 7.7 and B.6
ISED RSS-Gen, Clauses 8.9 and 8.10

2.3.2 Equipment under Test and Modification State

OR1; S/N ---; Modification State 0

2.3.3 Date of Test

2025-10-17

2.3.4 Environmental Conditions

Ambient Temperature	22 °C
Relative Humidity	45 %



2.3.5 Specification Limits

Radiated emission limits:					
Frequency Range (MHz)	Test distance (m)	Field strength		Field strength	
		($\mu\text{A/m}$)	($\text{dB}\mu\text{A/m}$)	($\mu\text{V/m}$)	($\text{dB}\mu\text{V/m}$)
0.009 – 0.49	300	$6.37 / f$	$20*\lg(6.37 / f)$	$2400 / f$	$20*\lg(2400 / f)$
0.49 – 1.705	30	$63.7 / f$	$20*\lg(63.7 / f)$	$24000 / f$	$20*\lg(24000 / f)$
1.705 – 13.110	30	0.08	-21.94	30	29.54
13.110 – 13.410	30	0.283	-11.0	106	40.5
13.410 – 13.553	30	0.891	-1.0	334	50.5
13.553 – 13.567	30	42.26	32.5	15848	84
13.567 – 13.710	30	0.891	-1.0	334	50.5
13.710 – 14.010	30	0.283	-11.0	106	40.5
14.010 - 30	30	0.08	-21.94	30	29.54
30 – 88	3	---	---	100	40
88 – 216	3	--	---	150	43.5
126 – 960	3	--	---	200	46
above 960	3	--	---	500	54
Note 1: f in kHz					

Table 9 Radiated emission limits

At frequencies at or above 30 MHz, measurements may be performed at distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempts should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

2.3.6 Test Method

The test was performed according to ANSI C63.10, sections 11.11 and 11.12

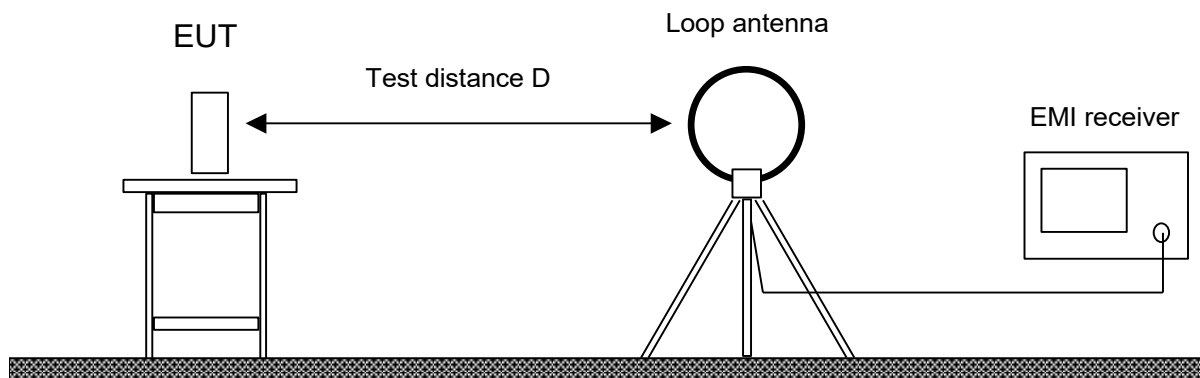
Prescans are performed in six positions of the EUT to get the full spectrum of emission caused by the EUT with the measuring antenna raised and lowered from 1 m to 4 m with vertical and horizontal polarisation to find the combination of table position, antenna height and antenna polarisation for the maximum emission levels.

Data reduction is applied to these results to select those levels having less margin than 10 dB or exceeding the limit using subranges and limited number of maximums.

Further maximisation for adjusting the maximum position is following.

Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

2.3.6.1 Frequency range 9 kHz – 30 MHz

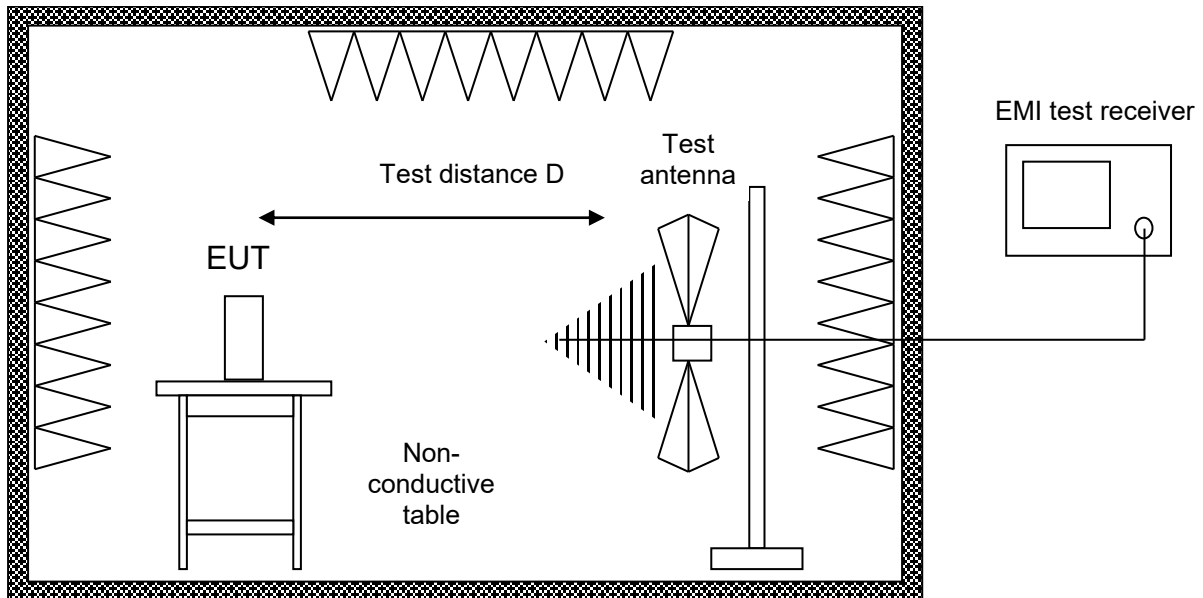


The EUT was placed on a non-conductive table, 0.8 m above the ground.

Radiated emissions in the frequency 9 kHz – 30 MHz is measured within a semi-anechoic room with an active loop antenna with the measurement detector set to peak. In addition, in the frequency range 9 kHz to 490 kHz also an average detector was used. The measurement bandwidth of the receiver was set to 300 Hz in the frequency range 9 kHz to 150 kHz and 10 kHz in the frequency range 150 kHz to 30 MHz. Prescans were performed in six positions of the EUT.

For final measurements the detector was set to CISPR quasi-peak and in addition to CISPR average in the frequency range 9 kHz to 490 kHz with a resolution bandwidth 200 Hz in the frequency range 9 kHz to 150 kHz and 9 kHz in the frequency range 150 kHz to 30 MHz. Final tests were performed immediately after a final frequency and zoom (for drifting disturbances) and maximum adjustment.

2.3.6.2 Frequency range 30 MHz – 1 GHz



Alternate test site (semi anechoic room)

The EUT was placed on a non-conductive table, 0.8 m above the ground plane. Radiated emissions in the frequency range 30 MHz – 1 GHz are measured within a semi-anechoic room with a groundplane complying with the NSA requirements of ANSI C63.4. for alternative test sites. A linear polarised logarithmic periodic antenna combined with a 4:1 broadband dipole ("Trilog broadband antenna") is used.

For prescan tests the test receiver is set to peak-detector with a bandwidth of 120 kHz.

With the measurement bandwidth of the test receiver set to 120 kHz CISPR quasi-peak detector is selected for final measurements following immediately after a final frequency zoom (for drifting disturbances) and maximum adjustment.



2.3.7 Test Results

<i>Frequency range</i>	<i>Limit applied</i>	<i>Test distance</i>
9 kHz – 30 MHz	15.209	3 m
30 MHz – 1 GHz	15.209	3 m

Table 10

Sample calculation:

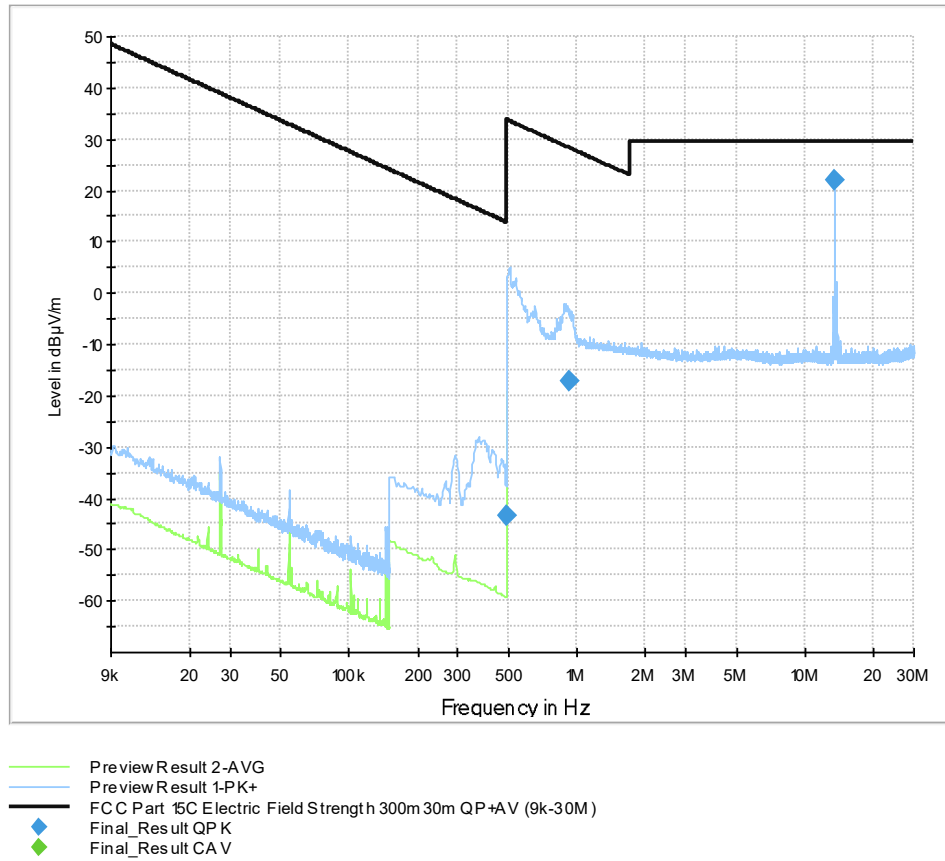
$$\text{Final Value (dB}\mu\text{V/m)} = \text{Reading Value (dB}\mu\text{V)} + (\text{Cable attenuation (dB)} + \text{Antenna Transducer (dB(1/m))})$$

Additional correction of level in the frequency range 9 – 490 kHz (300 m to 3 m): -80.0 dB

Additional correction of level in the frequency range 490 kHz – 30 MHz (30 m to 3 m): -40.0 dB



Frequency range 9 kHz – 30 MHz:

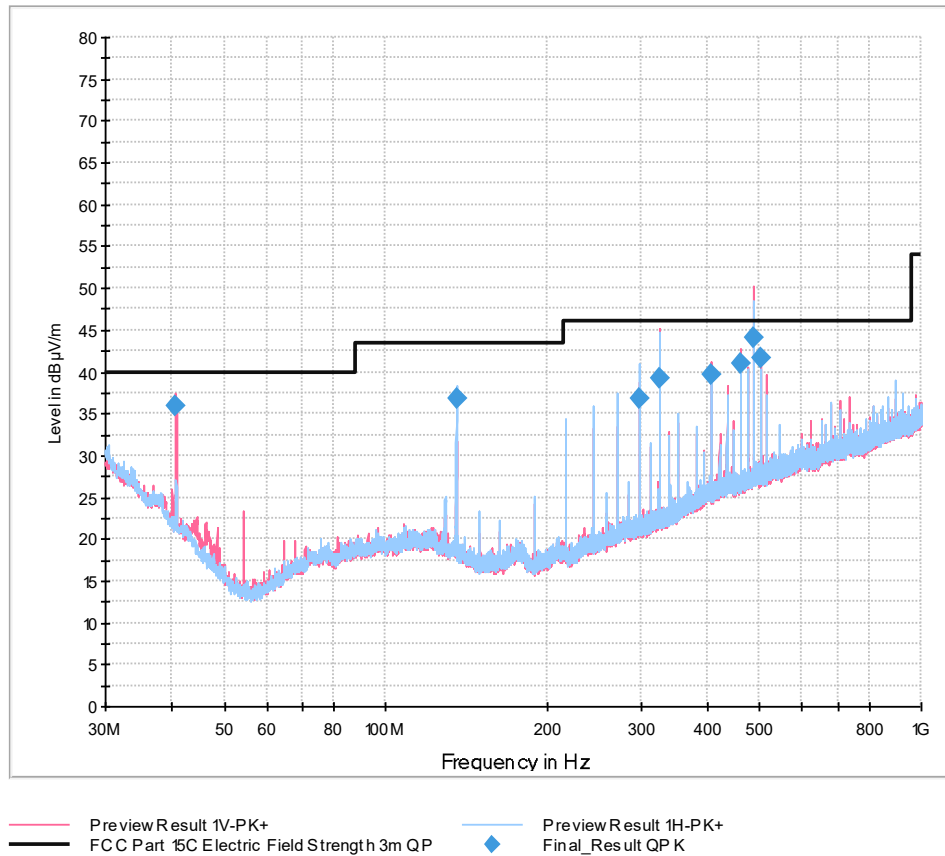


Final Results:

Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Band- width kHz	Height cm	Pol	Azi- muth deg	Corr. dB
0.490000	-43.32	13.80	57.12	1000.0	9.000	100.0	H	-25.0	-60.6
0.920250	-17.23	28.33	45.56	1000.0	9.000	100.0	H	-129.0	-20.6
13.559250	21.96	29.54	7.58	1000.0	9.000	100.0	H	-14.0	-20.8



Frequency range 30 MHz – 1 GHz:



Final Results:

Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azi- muth deg	Corr. dB
40.680000	35.82	40.00	4.18	1000.0	120.000	104.0	V	23.0	19.0
135.600000	36.84	43.50	6.66	1000.0	120.000	215.0	H	132.0	16.3
298.320000	36.73	46.02	9.29	1000.0	120.000	100.0	H	155.0	19.1
325.440000	39.16	46.02	6.86	1000.0	120.000	135.0	V	199.0	20.0
406.800000	39.62	46.02	6.40	1000.0	120.000	141.0	V	127.0	22.4
461.040000	41.05	46.02	4.97	1000.0	120.000	215.0	V	-7.0	23.9
488.160000	44.07	46.02	1.95	1000.0	120.000	208.0	V	202.0	24.6
501.720000	41.71	46.02	4.31	1000.0	120.000	185.0	V	-142.0	24.8



2.3.8 Test Location and Test Equipment

The test was carried out in semi anechoic room, Cabin No. 11

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Loop antenna	Schwarzbeck	FMZB 1519 C	72526	36	2028-01-31
EMI test receiver	Rohde & Schwarz	ESW44	39897	12	2026-03-31
ULTRALOG Antenna	Rohde & Schwarz	HL562E	61486	36	2026-04-30
Fixed attenuator	Rohde & Schwarz	HL562E-ATT 6dB	61491	36	2026-04-30
Semi anechoic room	Frankonia	Cabin no. 11	42961	---	---
EMC measurement software	Rohde & Schwarz	EMC32 Emission K11 – V11.50	42986	---	---

Table 11



2.4 Temperature Stability

2.4.1 Specification Reference

FCC 47 CFR Part 15 E, Clause 15.225(e)
ISSED RSS-210, Clause B.6 b.
ISED RSS-Gen, Clause 6.11

2.4.2 Equipment under Test and Modification State

OR1; S/N ---; Modification State 0

2.4.3 Date of Test

2025-10-22

2.4.4 Environmental Conditions

Ambient Temperature	23 °C
Relative Humidity	45 %

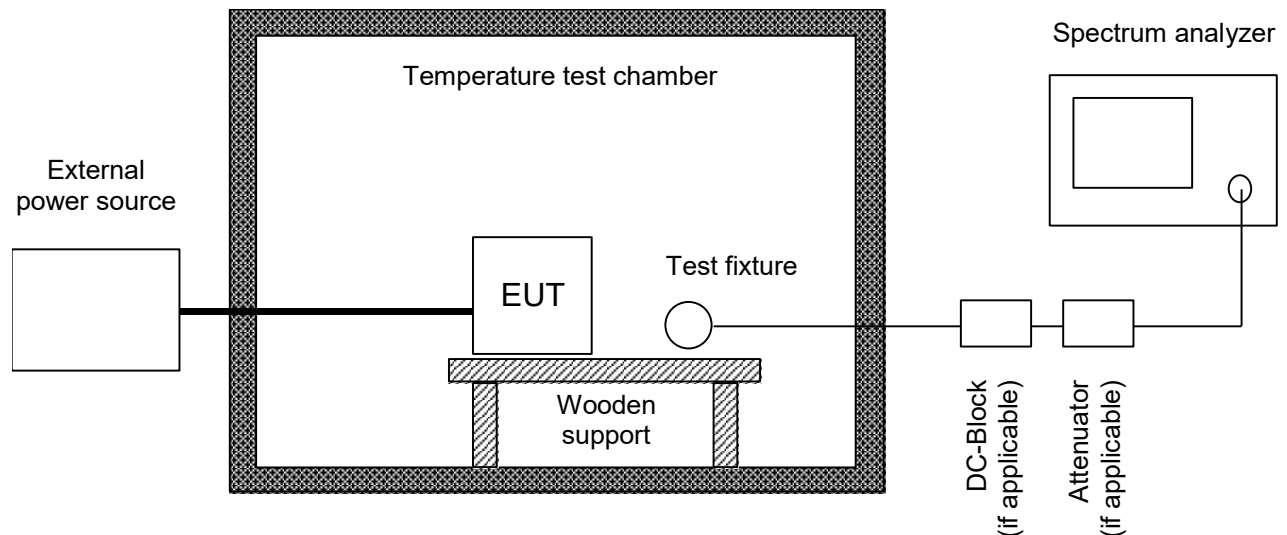
2.4.5 Specification Limits

The frequency tolerance of the carrier signal shall be maintained within ± 0.01 % of the operating frequency over a temperature variation of -20 °C to +50 °C at normal supply voltage, and for a variation in the primary supply voltage from 85 % to 115 % of the rated supply voltage at a temperature of 20 °C. For battery operated equipment, the equipment tests shall be performed using a new battery.



2.4.6 Test Method

The test was performed according to ANSI C63.10, section 6.8.



The frequency tolerance of the carrier signal is measured over a temperature variation of -20°C to $+50^{\circ}\text{C}$ at normal supply voltage, and for a variation in the primary supply voltage from 85 % to 115 % of the rated supply voltage at a temperature of 20°C . Temperature and voltage range may vary if the manufacturer states another temperature or voltage range.

If the EUT provides an antenna connector the spectrum analyzer is connected to this port. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as a DC block and appropriate (50 Ω) attenuators. In case where the EUT does not provide an antenna connector or a test fixture is used.

For battery operated equipment, the test is performed using a new battery. Alternatively, an external supply voltage can be used and is at least set to:

- The maximum battery voltage as delivered by a new battery or 115 % of the battery nominal voltage;
- The battery nominal voltage
- 85 % of the battery nominal voltage
- The battery operating end point voltage which shall be specified by the equipment manufacturer.

The EUT is operating providing an unmodulated carrier for frequency error tests. The peak detector of the spectrum analyzer is selected and resolution as well as video bandwidth are set to values appropriate to shape of the spectrum of the EUT. The frequency counter mode of the spectrum analyzer is used to maximize the accuracy of the measured frequency tolerance.

If an unmodulated carrier is not available a significant and stable point of the spectrum is selected and the span is reduced to a value that delivers an accuracy which shall be better than 1 % of the maximum frequency tolerance allowed for the carrier signal. This method may be performed as long as the margin to the frequency tolerance is larger than the uncertainty of the measured frequency tolerance.



2.4.7 Test Results

<i>Temperature</i>	<i>Supply Voltage</i>	<i>Frequency (MHz)</i>	<i>Frequency drift (ppm)</i>
-40	12.00	13.56006	4.424779
-20	12.00	13.56017	12.53687
-10	12.00	13.56017	12.53687
0	12.00	13.56014	10.32448
10	12.00	13.56009	6.637168
20	10.20	13.55978	-16.22418
20	12.00	13.55976	-17.69911
20	13.80	13.55980	-14.74926
30	12.00	13.55996	-2.949853
40	12.00	13.55988	-8.849558
50	12.00	13.55980	-14.74926
85	12.00	13.55974	-19.17404

Table 12

2.4.8 Test Location and Test Equipment

The test was carried out in radio test laboratory

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Signal and Spectrum Analyzer	Rohde & Schwarz	FSV40	20219	24	2026-03-31
Climatic test chamber	ESPEC	PL-4J	39858	12	2026-09-06

Table 13



3 Measurement Uncertainty

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

<i>Radio Interference Emission Testing</i>		
<i>Test Name</i>	<i>kp</i>	<i>Expanded Uncertainty</i>
Conducted Voltage Emission		
9 kHz to 150 kHz (50Ω/50μH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50μH AMN)	2	± 3.4 dB
100 kHz to 200 MHz (50Ω/5μH AMN)	2	± 3.6 dB
Discontinuous Conducted Emission		
9 kHz to 150 kHz (50Ω/50μH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50μH AMN)	2	± 3.4 dB
Conducted Current Emission		
9 kHz to 200 MHz	2	± 3.5 dB
Magnetic Fieldstrength		
9 kHz to 30 MHz (with loop antenna)	2	± 3.9 dB
9 kHz to 30 MHz (large-loop antenna 2 m)	2	± 3.5 dB
Radiated Emission		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 5.0 dB
1 GHz to 6 GHz	2	± 4.6 dB
Test distance 10 m		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 4.9 dB
The expanded uncertainty reported according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 is based on a standard uncertainty multiplied by a coverage factor of $k_p = 2$, providing a level of confidence of $p = 95.45\%$		

Table 14 Measurement uncertainty based on CISPR 16-4-2



<i>Radio Interference Emission Testing</i>		
<i>Test Name</i>	<i>kp</i>	<i>Expanded Uncertainty</i>
Occupied Bandwidth	2	± 5 %
Conducted Power		
9 kHz ≤ f < 30 MHz	2	± 1.0 dB
30 MHz ≤ f < 1 GHz	2	± 1.5 dB
1 GHz ≤ f ≤ 40 GHz	2	± 2.5 dB
1 MS/s power sensor (TS8997)	2	± 1.5 dB
Occupied Bandwidth	2	± 5 %
Power Spectral Density	2	± 3.0 dB
Radiated Power		
25 MHz – 6 GHz	1.96	±4.4 dB
1 GHz – 18 GHz	1.96	±4.7 dB
18 GHz – 40 GHz	1.96	±4.9 dB
40 GHz – 325 GHz	1.96	±6.1 dB
Conducted Spurious Emissions	2	± 3.0 dB
Radiated Spurious Emissions	2	± 6.0 dB
Voltage		
DC	2	± 1.0 %
AC	2	± 2.0 %
Time (automatic)	2	± 5 %
Frequency	2	± 10 ⁻⁷
The expanded uncertainty reported according to ETSI TR 100 028:2001 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%		

Table 15 Measurement uncertainty based on ETSI TR 100 028

The measurement uncertainty in the laboratory is less than or equal to the maximum measurement uncertainty according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 (U_{CISPR}) and as specified in the test report below. This normative regulation means that the measured value is also the value to be assessed in relation to the limit value.



Test Name	Expanded Uncertainty
Occupied Bandwidth	±5 %
Conducted Power	
9 kHz ≤ f < 30 MHz	±1.0 dB
30 MHz ≤ f < 1 GHz	±1.5 dB
1 GHz ≤ f ≤ 40 GHz	±2.5 dB
1 MS/s power sensor (2.4 / 5 GHz band)	±1.5 dB
Power Spectral Density	±3.0 dB
Radiated Power	
25 MHz – 26.5 GHz	±6.0 dB
26.5 GHz – 66 GHz	±8.0 dB
40 GHz – 325 GHz	±10.0 dB
Conducted Spurious Emissions	±3.0 dB
Radiated Field Strength 9 kHz – 40 GHz	±6.0 dB
Voltage	
DC	± 1.0 %
AC	± 2.0 %
Time (automatic)	± 5 %
Frequency	± 10 ⁻⁷

Table 16 Decision Rule: Maximum allowed measurement uncertainty

End of Test Report