

Prüfbericht-Nr.: Test report no.:	CN25JJS8 001	Auftrags-Nr.: Order no.:	178224841	Seite 1 von 32 Page 1 of 32
Kunden-Referenz-Nr.: Client reference no.:	2533689	Auftragsdatum: Order date:	2025.07.29	
Auftraggeber: Client:	SHANDONG RIPPA MACHINERY GROUP CO., LTD. The north of Guang'an Road and east of Gaoxin Avenue (Liaohu Road), High tech Zone, Jining City, 272000 Shandong P.R. China			
Prüfgegenstand: Test item:	Hydraulic Excavator			
Bezeichnung / Typ-Nr.: Identification / Type no.:	R350, R32			
Auftrags-Inhalt: Order content:	EMC test			
Prüfgrundlage: Test specification:	[Emission] with reference to: EN ISO 13766-1:2018 [Immunity] with reference to: EN ISO 13766-1:2018 ISO 10605:2008 IEC 61800-3:2004+A1, Clause A.3.2.2			
Wareneingangsdatum: Date of sample receipt:	2025.07.22			
Prüfmuster-Nr.: Test sample no.:	SLP25040809			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	Jining			
Prüflaboratorium: Testing laboratory:	Refer to report			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:		genehmigt von: authorized by:		
Datum: Date: 2025-08-05 Signed by: Rayho Liang		Ausstellungsdatum: Issue date: 2025-08-05 Signed by: Hunter Yu		
Stellung / Position: Project Engineer/Rayho Liang		Stellung / Position: Authorizer/Hunter Yu		
Sonstiges / Other:	1. This EMC test report is issued according to client's requirements. 2. All test methods are confirmed with SHANDONG RIPPA MACHINERY GROUP CO., LTD. Immunity test procedure to electromagnetic radiation will be with reference to IEC 61800-3:2004+A1, Clause A.3.2.2. 3. In electrical characteristics, R350 and R32 are similar, the differences among them are appearance and model name. Therefore, all EMC tests were performed on model R350.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

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Anmerkungen Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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TEST SUMMARY

4.1 Broadband EMISSION IN THE FREQUENCY RANGE UP TO 30 MHz

Result:

Passed

4.2 Narrow EMISSION IN THE FREQUENCY RANGE ABOVE 30 MHz

Result:

Passed

5.1 ELECTROSTATIC DISCHARGE

Result:

Passed

5.2 RADIO FREQUENCY ELECTROMAGNETIC FIELD

Result:

Passed

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1 Test Sites

1.1 Test Facilities

Laboratory: TÜV Rheinland / CCIC (Qingdao) Co., Ltd.**Address: 6F, No. 2Bldg., No. 175 Zhuzhou Rd., Qingdao 266101, P.R. China**

The used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

Tests on this test report are on-site EMC tests. Tests were performed at customer's premise located at " The north of Guang'an Road and east of Gaoxin Avenue (Liaohe Road), High tech Zone, Jining City, 272000 Shandong, P.R. China".

Due to the tests were performed on-site, there were some deviations from the laboratory test; for details, please refer to relevant clause.

1.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

No.	Equipment	Model	Inventory no.	Cal. due date
1.	EMI Test Receiver	ESR	1316.3003K03-101902-hF	2025.11.09
2.	ESD Generator	Dito	0301-44	2025.09.09
3.	Broadband Antenna	VULB9163	752	2025.11.18
4.	Multiband Transceiver	VX-6	n.a.	n.a.
5.	Cellular Telephone	Huawei P40	n.a.	n.a.

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2 General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is a hydraulic excavator. For the further information, refer to the user's manual.

2.2 Ratings and System Details

Rated voltage	: DC 12V
Engine power	: 18.2kW
Operating mass	: 2578kg
Protection class	: III

2.3 Independent Operation Modes

The basic operation mode is "ON" and "OFF".
Refer to operation manual for further information.

2.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit diagram for further information.

2.5 Submitted Documents

User manual, circuit diagram, components list and rating label etc.

3 Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible emission level. The test conditions were adapted accordingly in reference to the instructions for use.

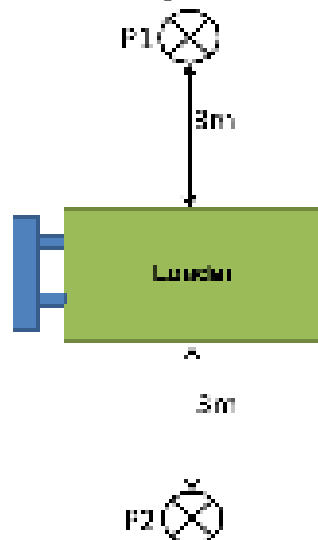
Refer to the related paragraph of this report.

Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test conditions were adapted accordingly in reference to the instructions for use.

Refer to the related paragraph of this report.

3.2 Physical Configuration for Testing

Refer to the related paragraph of this report.
EUT layout and antenna positions:



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3.3 Test Operation and Test Software

Refer to the related paragraph of this report. No software was used.

3.4 Special Accessories and Auxiliary Equipment

None.

3.5 Countermeasures to achieve EMC Compliance

No special measure is employed to achieve the requirement.

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4 Test Results EMISSION

4.1 Broadband Emission in the Frequency Range above 30 MHz

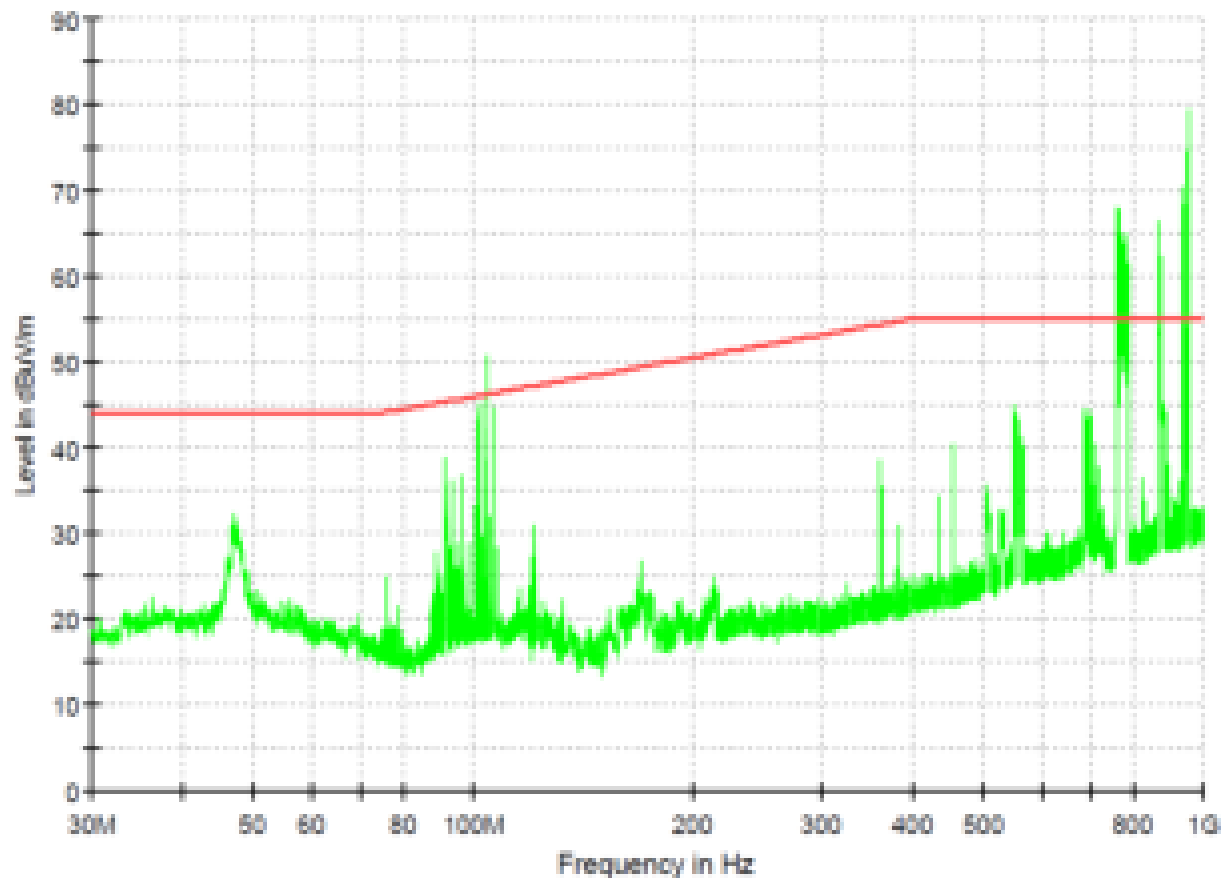
Result:	Passed
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Date of testing : 15.07.2025
Test procedure : EN ISO 13766-1:2018
Frequency range : 30 - 1000MHz
Limits : Quasi-peak limits (3m measurement distance): 30-75MHz, 44dB μ V/m; 75-400MHz, 44 to 55 dB μ V/m increasing with frequency; 400-1000MHz, 55dB μ V/m
Margin : No less than 2dB
requirement:
Kind of test site : On-site testing
Height of the : 1.8m
receiving antenna
Test distance : 3m
Operation modes : Engine and all electronic systems on
Ambient : Temperature: 20°C, relative humidity: 50%
conditions

The test was performed with the EUT in the operation modes as described above. Following are the measurement results for horizontal polarization and vertical polarization respectively. The measurement results may also include the contribution of the ambient interference; due to that the disturbance emanated from the EUT combined with the ambient interference did exceed the corresponding limit, no further investigation was made to discriminate whether the EUT or the ambient interference is the main contributor. In the following figures, the symbols “♦” means quasi-peak values which were measured in final measurement.

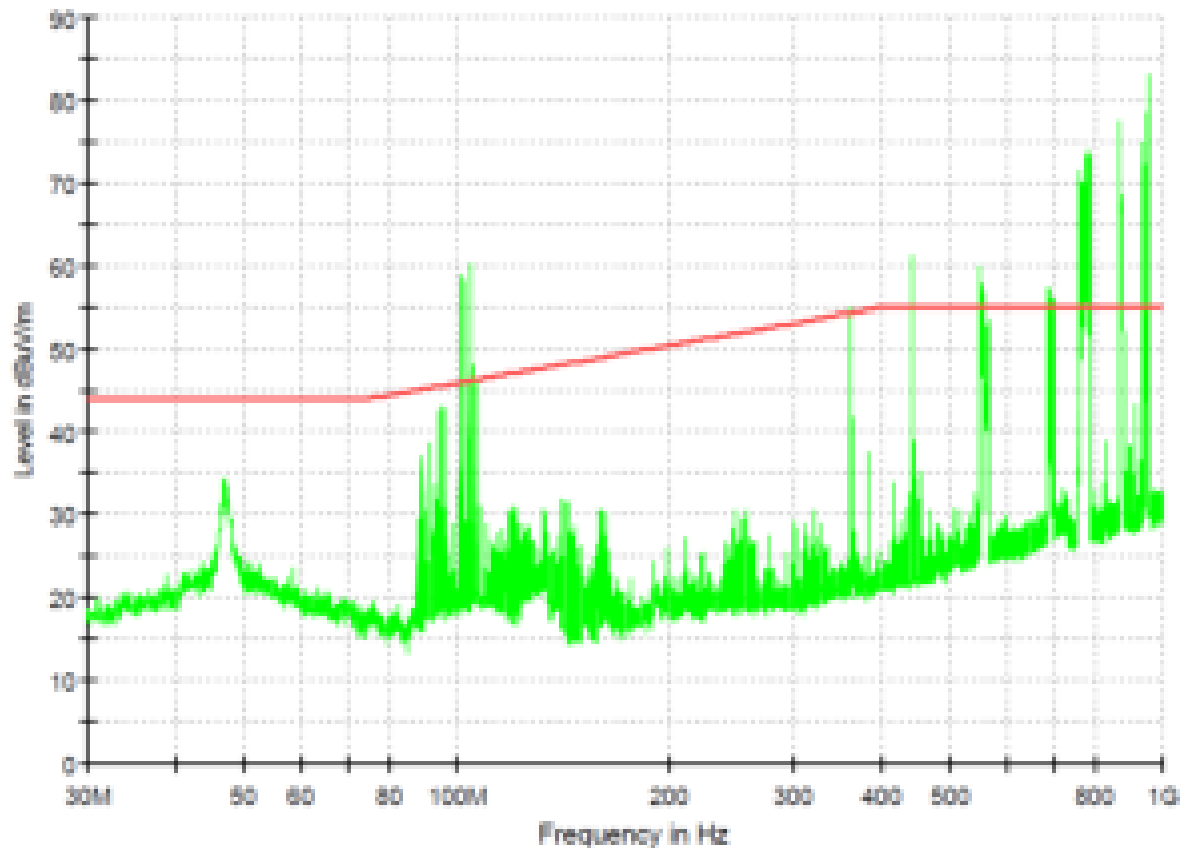
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Figure 1: Spectral diagrams and measurement results for 30-1000MHz, ambient noise, horizontal polarization, broadband



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Figure 2: Spectral diagrams and measurement results for 30-1000MHz, ambient noise, vertical polarization, broadband



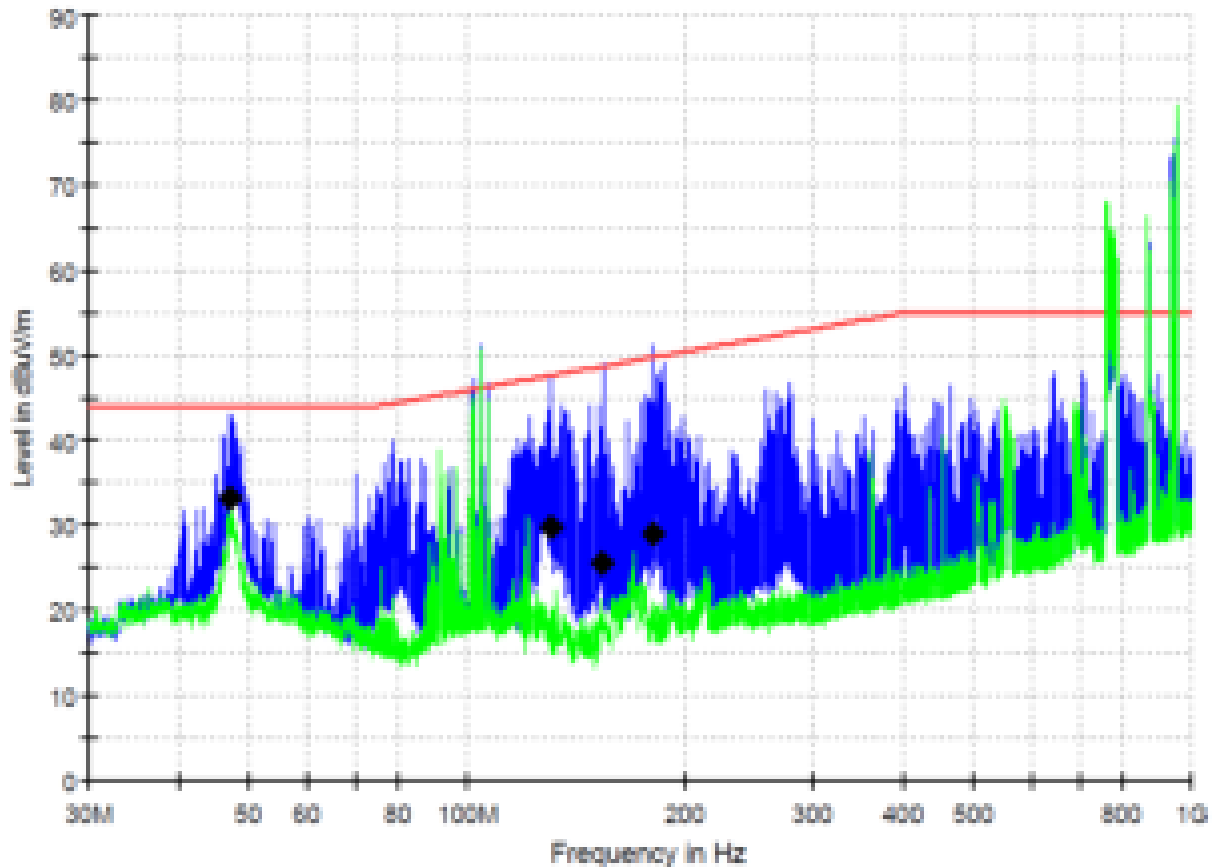
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Figure 3: Spectral diagrams and measurement results for 30-1000MHz, Horizontal polarization, P1



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBuV/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
47.120000	33.1	10.9	44.0
130.200000	29.8	17.8	47.6
153.680000	25.6	23.1	48.7
180.520000	28.9	20.9	49.8

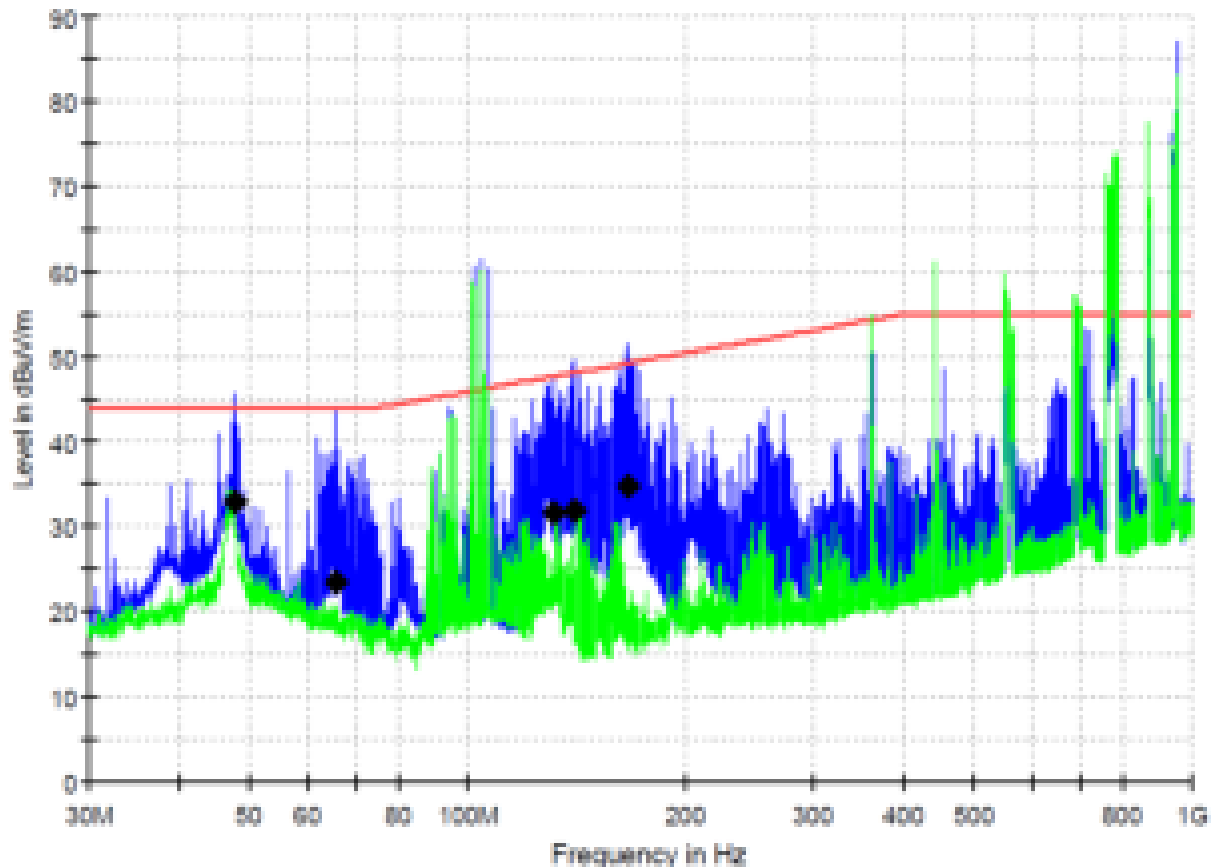
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Figure 4: Spectral diagrams and measurement results for 30-1000MHz, Vertical polarization, P1



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBuV/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
47.600000	32.8	11.2	44.0
65.600000	23.4	20.6	44.0
131.160000	31.6	16.1	47.7
140.600000	31.9	16.2	48.1
166.000000	34.7	14.5	49.2

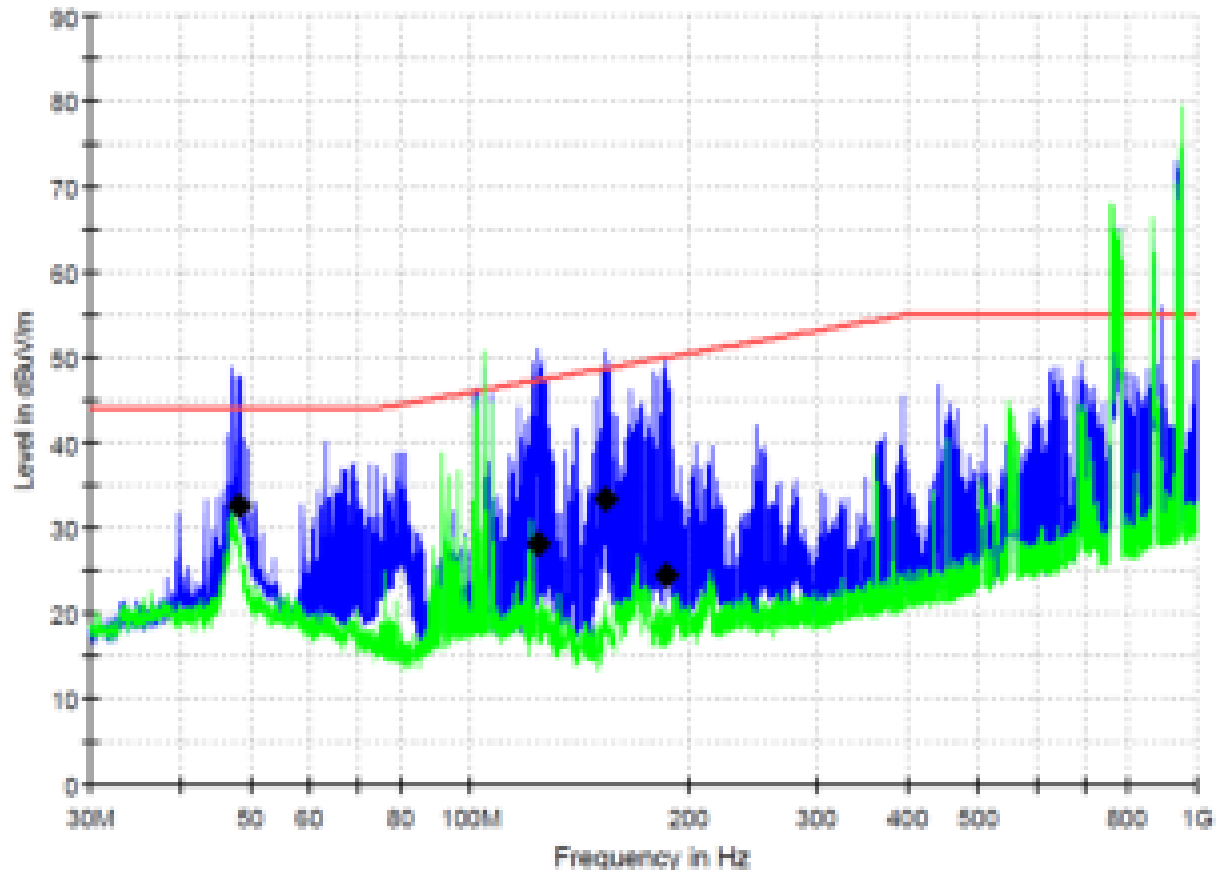
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Figure 5: Spectral diagrams and measurement results for 30-1000MHz, Horizontal polarization, P2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBuV/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
47.960000	32.7	11.3	44.0
123.560000	28.2	19.1	47.3
153.480000	33.5	15.2	48.7
186.120000	24.5	25.5	50.0

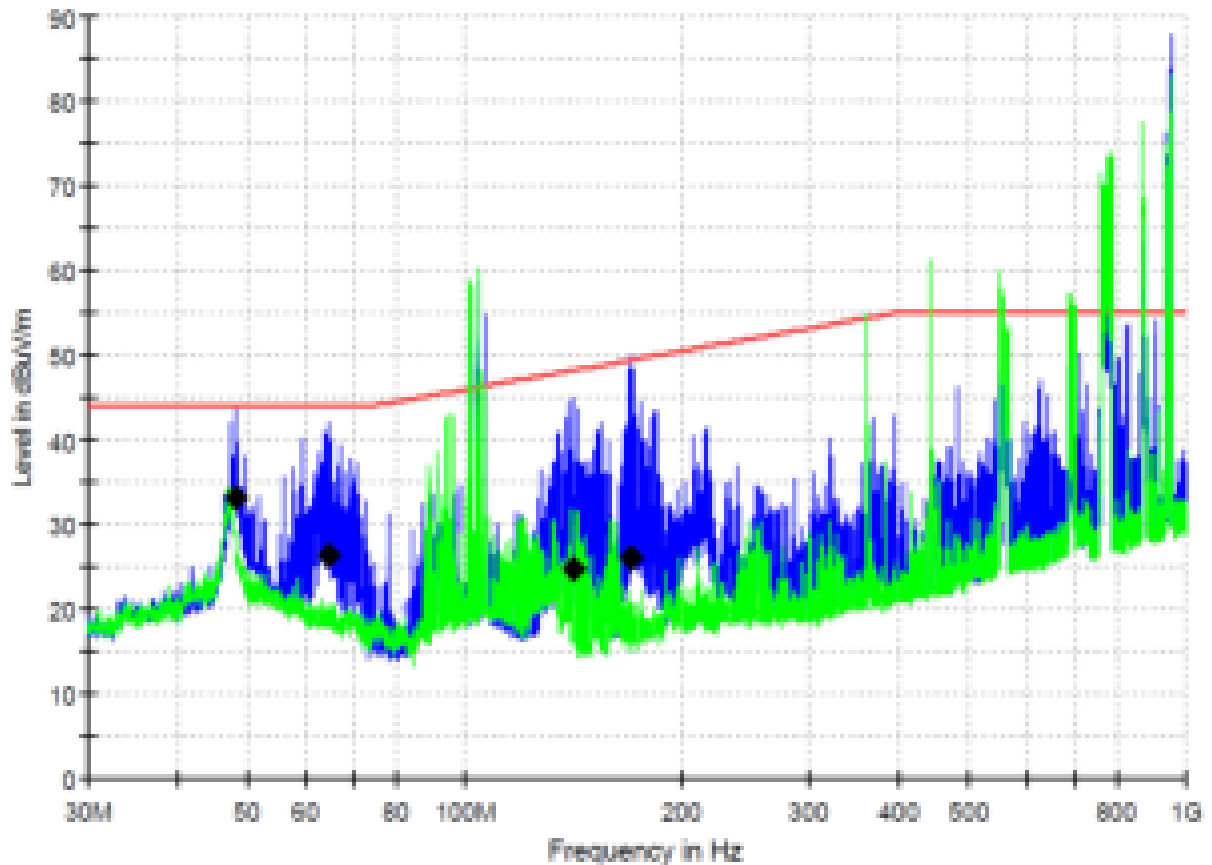
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Figure 6: Spectral diagrams and measurement results for 30-1000MHz, Vertical polarization, P2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBuV/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
48.040000	33.3	10.7	44.0
64.720000	26.2	17.8	44.0
140.920000	24.6	23.5	48.1
170.480000	26.0	23.4	49.4

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4.2 Narrowband Emission in the Frequency Range above 30 MHz

Result:
Passed

Date of testing : 15.07.2025
 Test procedure : EN ISO 13766-1:2018
 Frequency range : 30 - 1000MHz
 Limits : Limits (3m measurement distance): 30-75MHz, 34dB μ V/m; 75-400MHz, 34 to 45 dB μ V/m increasing with frequency; 400-1000MHz, 45dB μ V/m
 Margin requirement: : No less than 2dB
 Kind of test site : On-site testing
 Height of the receiving antenna : 1.8m
 Test distance : 3m
 Operation modes : Engine off; All other electronic systems on.
 Ambient conditions : Temperature: 20°C, relative humidity: 50%

The test was performed with the EUT in the operation modes as described above. Following are the measurement results for horizontal polarization and vertical polarization respectively. The measurement results may also include the contribution of the ambient interference; due to that the disturbance emanated from the EUT combined with the ambient interference did exceed the corresponding limit, no further investigation was made to discriminate whether the EUT or the ambient interference is the main contributor. In the following figures, the symbols “♦” means average values which were measured in final measurement.

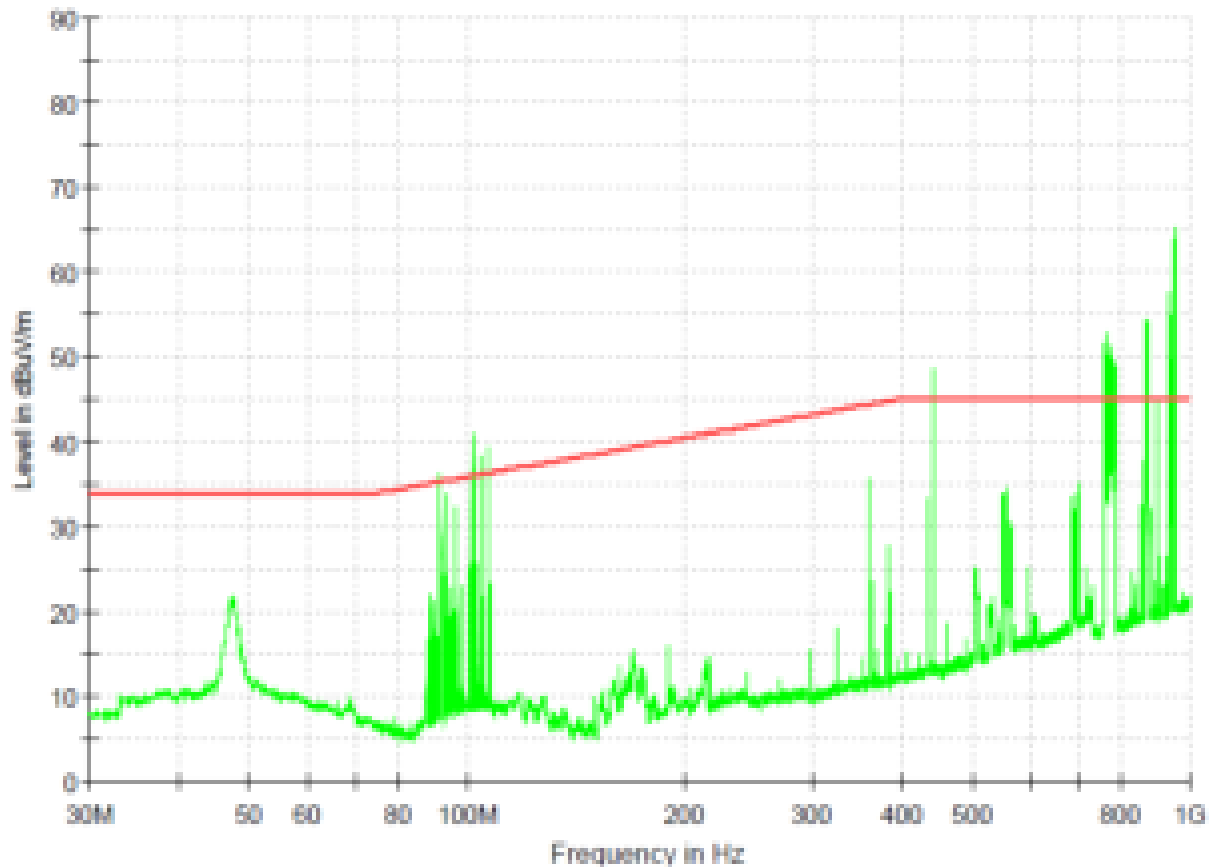
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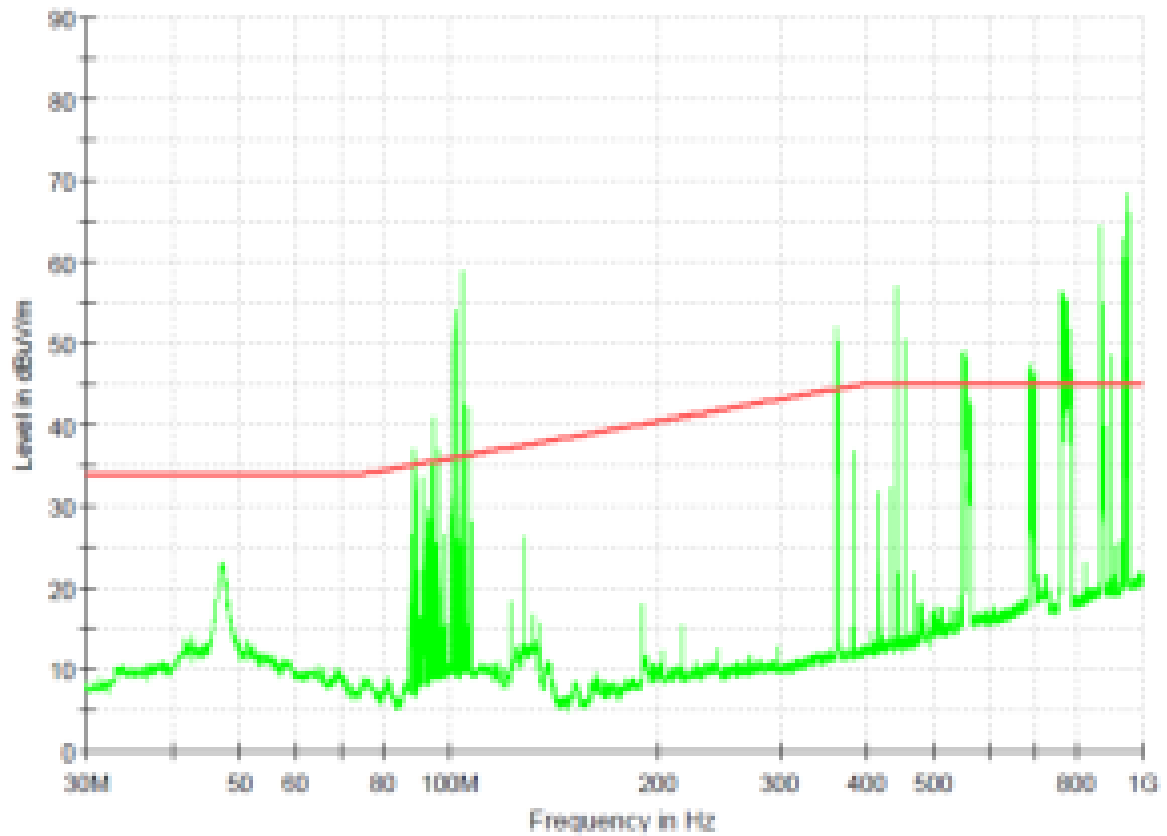
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Figure 7: Spectral diagrams and measurement results for 30-1000MHz, ambient noise, horizontal polarization, narrowband



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Figure 8: Spectral diagrams and measurement results for 30-1000MHz, ambient noise, vertical polarization, narrowband



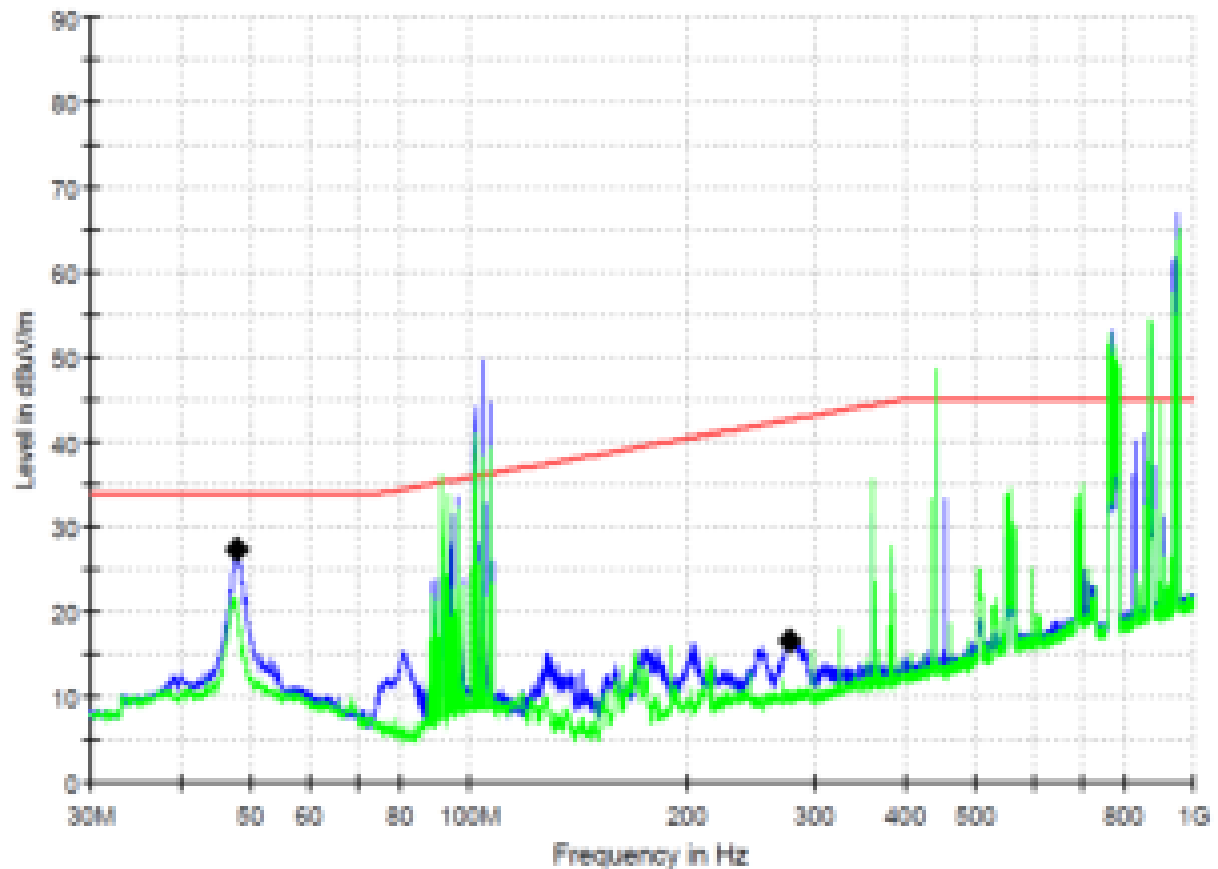
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Figure 9: Spectral diagrams and measurement results for 30-1000MHz, Horizontal polarization, P1



Final average value measurement results:

Frequency (MHz)	CAverage (dBuV/m)	Margin - CAV (dB)	Limit - CAV (dBuV/m)
47.800000	27.3	6.7	34.0
277.480000	16.7	25.9	42.6

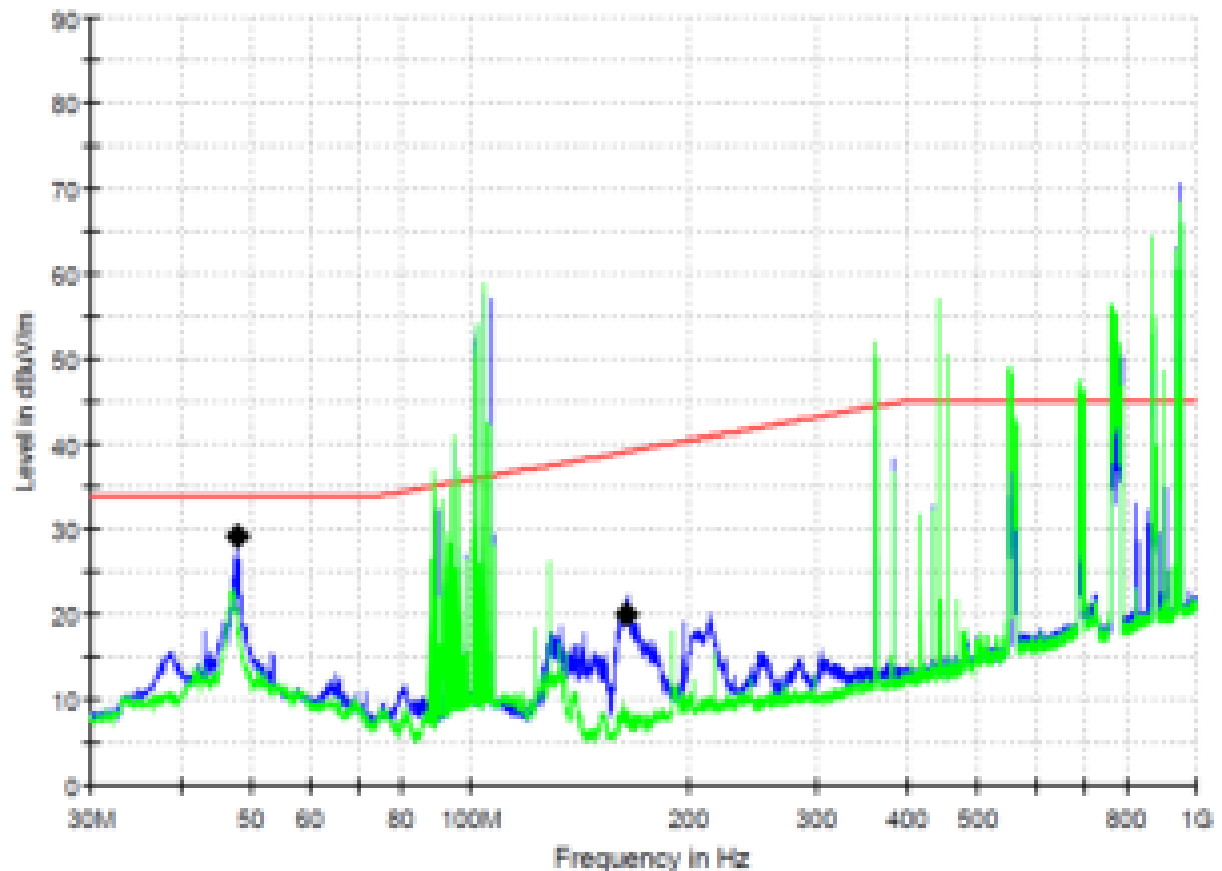
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Figure 10: Spectral diagrams and measurement results for 30-1000MHz, Vertical polarization, P1



Final average value measurement results:

Frequency (MHz)	CAverage (dBuV/m)	Margin - CAV (dB)	Limit - CAV (dBuV/m)
47.800000	29.2	4.8	34.0
164.480000	20.1	19.1	39.2

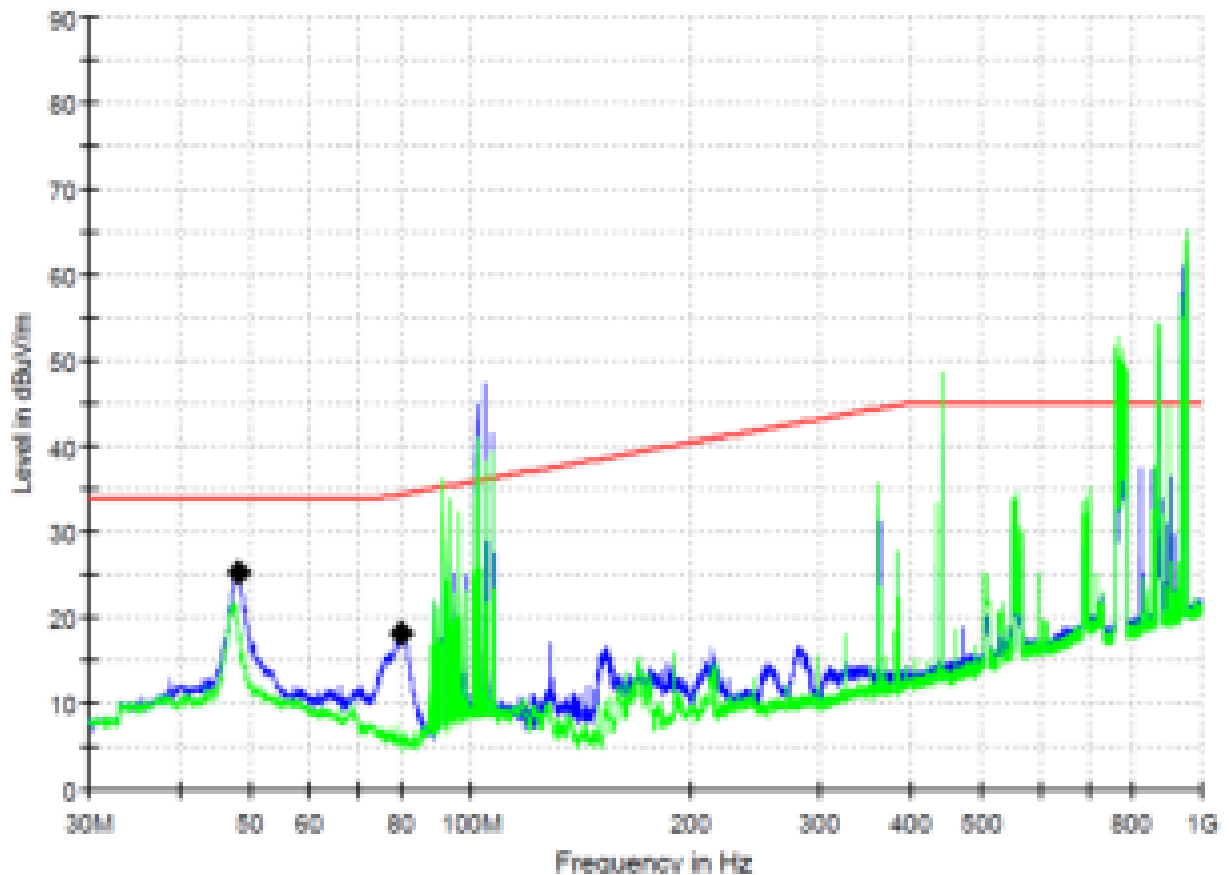
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Figure 11: Spectral diagrams and measurement results for 30-1000MHz, Horizontal polarization, P2



Final average value measurement results:

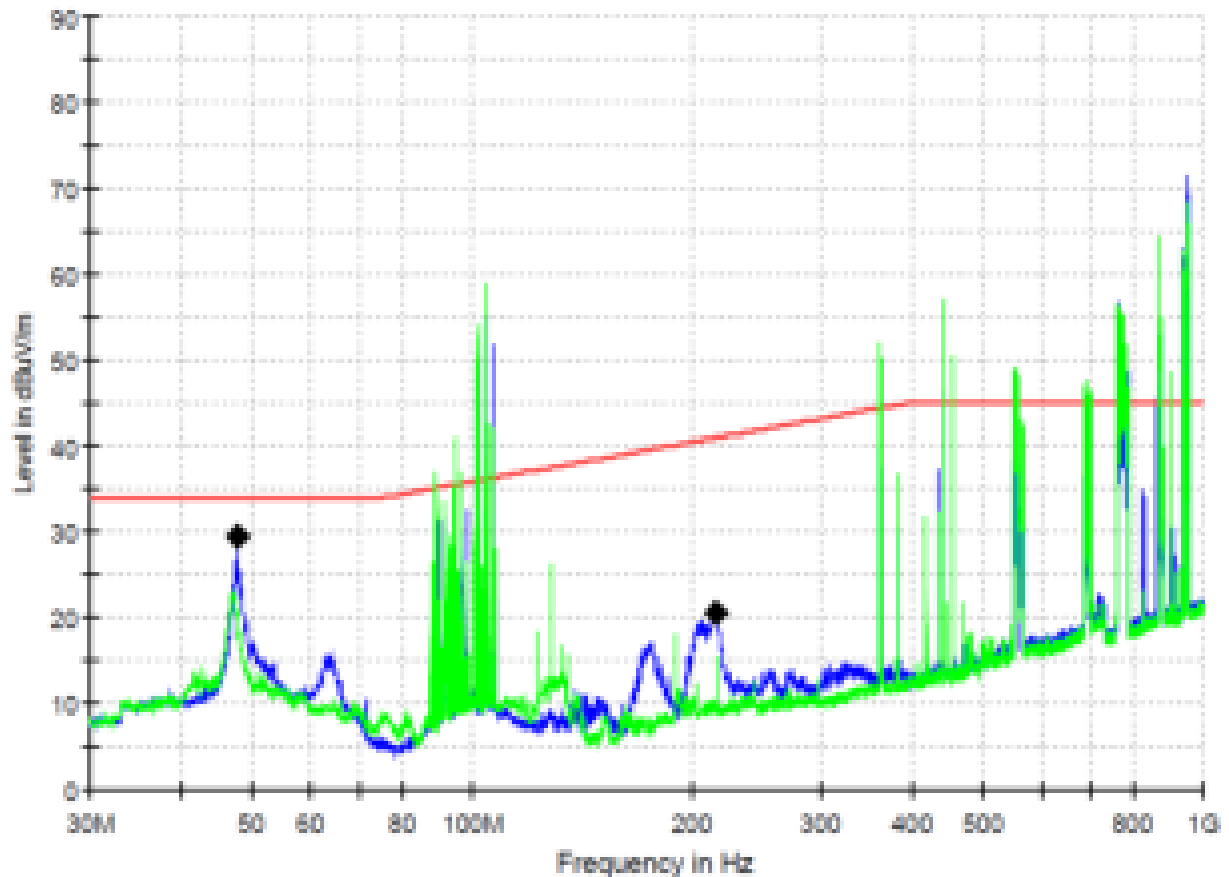
Frequency (MHz)	CAverage (dBuV/m)	Margin - CAV (dB)	Limit - CAV (dBuV/m)
48.240000	25.3	8.7	34.0
80.080000	18.2	16.2	34.4

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Figure 12: Spectral diagrams and measurement results for 30-1000MHz, Vertical polarization, P2

Final average value measurement results:

Frequency (MHz)	CAverage (dBuV/m)	Margin - CAV (dB)	Limit - CAV (dBuV/m)
47.800000	29.4	4.6	34.0
215.400000	20.5	20.4	40.9

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5 Test Results I M M U N I T Y

During the immunity tests, the EUT was operated under conditions specified by clause 3.1 of this report.

According to EN ISO 13766-1:2018, Table 3:

Functional status	Description
A (I)	All functions of a device/system perform as designed during and after exposure to a disturbance.
B (II)	All functions of a device/system perform as designed during exposure; however, one or more of them may go beyond the specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain criterion A.
C (III)	One or more functions of a device/system do not perform as designed during exposure but returns automatically to normal operation after exposure is removed.
D (IV)	One or more functions of a device/system do not perform as designed during exposure and does not return to normal operation until exposure is removed and the device/system is reset by simple "operator/user" action.
E (V)	One or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

Date of testing: 15.07.2025

Site temperature : **34°C**
Relative Humidity : **33%**

5.1 Electrostatic Discharge

Result:	Passed
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The immunity against electrostatic discharge was tested in accordance with EN ISO 13766-1:2018. Test setup and ESD-Generator are according to ISO 10605:2008 which is specified by EN ISO 13766-1:2018.

Charge voltage	: $\pm 4.0\text{kV}$, $\pm 6.0\text{kV}$ (Contact Discharge) $\pm 4.0\text{kV}$, $\pm 8.0\text{kV}$ (Air Discharge)
Generator capacitance	: 330 pF (inside of the machinery) 150 pF (outside of the machinery)
Polarity	: positive / negative
Number of discharges	: >10 at each point
Operation mode	: Engine and all electronic systems on
Performance criteria	: Class A($\pm 4.0\text{kV}$ Contact and Air discharge) Class C($\pm 6.0\text{kV}$ Contact discharge and $\pm 8.0\text{kV}$ Air discharge)

Table 2: ESD, Positive / Negative Polarity

Position	Kind of Discharge	Result	Remarks
Display	Air discharge $\pm 4\text{kV}$ and $\pm 8\text{kV}$	Passed	All function perform as designed during and after exposure to a disturbance
Metal enclosure	Contact discharge $\pm 4\text{kV}$ and $\pm 6\text{kV}$	Passed	Ditto
Screws	Contact discharge $\pm 4\text{kV}$ and $\pm 6\text{kV}$	Passed	Ditto
Emergency switch	Air discharge $\pm 4\text{kV}$ and $\pm 8\text{kV}$	Passed	Ditto
LED lights	Air discharge $\pm 4\text{kV}$ and $\pm 8\text{kV}$	Passed	Ditto

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5.2 Radio Frequency Electromagnetic Field

Result:
Passed

According to clause A.3.2.2 of IEC 61800-3:2004+A1, the test was only performed at some discrete frequencies.

Performance criterion is described in clause 4.1.3 of EN ISO 13766-1:2018.

When a test specimen is subjected to the immunity requirements, operator controls and any automatic controls for the machinery and any attachments or machinery shall remain functional so as to provide continued control of the machinery. This also applies to secondary or shut-down systems which are intended to be operated when the primary control has failed.

Reference standards	: IEC 61800-3:2004+A1, clause A3.2.2
Test level	: 30V/m
Frequency range	: 20M-2000MHz
Modulation	: Pulse Modulation for 915MHz Frequency Modulation for other frequencies
Test frequencies	: 52MHz: ISM frequency 145MHz: business radio band 435MHz: ISM frequency 915MHz: GSM915
Operation mode	: Engine and all electronic systems on
Performance criteria	: Clause 4.1.3 of EN ISO 13766-1:2018

Table 3: Radiated Susceptibility, Field Strength 30V/m

Position	Observation	Remarks
Enclosure of EUT	Amateur radio transceiver	Passed
Enclosure of EUT	Mobile phone	Passed

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6 Photographs of the Test Set-Up

Photograph 1: Set-up for radiated electromagnetic disturbances above 30MHz



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Photograph 2: Set-up for immunity test of ESD



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Photograph 3: Set-up for radio frequency electromagnetic field



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