

TEST REPORT FCC Rules: Code of Federal Regulations (CFR) no. 47 Part 15 Subpart C Section 15.207 and 15.209		
Report Number.	AR25-0119873-01	
Date of issue	2026-02-02	
Total number of pages	23	
Name of Testing Laboratory preparing the Report	IMQ S.p.A. - Milano	
CAB designation number	IT0013	
Applicant's name ^	URMET S.p.A.	
Address ^	Via Bologna, 188/c -10154 Torino - Italy	
Test specification:		
Standards	47 CFR Part 15	
Test Report Form No.	TRF 5579/2	
Test Report Form(s) Originator	IMQ S.p.A.	
Master TRF	Dated 2025-09-29	
Test item description ^	Video door phone	
Trademark or brand name ^	URMET	
Manufacturer ^	URMET S.p.A. Via Bologna, 188/c -10154 Torino - Italy	
Model/Type reference(s) ^	1760/18	
Ratings ^	24 V AC by dedicated AC/AC converter	
FCC ID ^	REA176018	
Revision sheet:		
Rev.	Date	Revision description
0	2026-02-02	First Emission

Responsible Testing Laboratory and testing location(s):	
☒ Testing Laboratory:	IMQ S.p.A.
Testing location/ address :	Viale Lombardia, 20/B – 20021 Bollate (MI) - Italy
Tested by (name, function, signature) :	Alessandro Macri <i>[Laboratory technician]</i>
Approved by (name, function, signature) .. :	Federico Sirtori <i>[Laboratory manager]</i>
☐ Testing procedure: CTF Stage 1:	
Testing location/ address :	
Tested by (name, function, signature) :	
Approved by (name, function, signature) .. :	
☐ Testing procedure: CTF Stage 2:	
Testing location/ address :	
Tested by (name + signature) :	
Witnessed by (name, function, signature) . :	
Approved by (name, function, signature) .. :	
☐ Testing procedure: CTF Stage 3:	
☐ Testing procedure: CTF Stage 4:	
Testing location/ address :	
Tested by (name, function, signature) :	
Witnessed by (name, function, signature) . :	
Approved by (name, function, signature) .. :	
Supervised by (name, function, signature) :	



List of Attachments (including a total number of pages in each attachment):
Annex 1 - Test setup photo FCC (7 pages)

Summary of testing

Tests performed (name of test and test clause):

- 4.1 Conducted Emission § 15.207
 4.2 Radiated Emission § 15.209

Testing location:

Viale Lombardia, 20/B – 20021 Bollate (MI) - Italy

Statement of conformity:

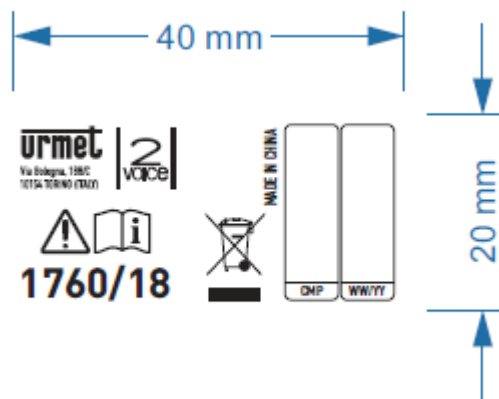
All measured values comply with the specification limit(s).

Use of uncertainty of measurement for decisions on conformity (decision rule):

See section 5.2 in this report.

Copy of marking plate ^.....:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Possible test case verdicts:								
- test case does not apply to the test item. :	N/A (Not Applicable)							
- test item does meet the requirement :	P (Pass)							
- test item does not meet the requirement. :	F (Fail)							
- test not performed :	N/P (Not Performed)							
IMQ reference samples :	BEM 122705 (Item(s) sampled and sent by applicant)							
Date of receipt of test item :	2025-06-09							
Date of acceptance of test item :	2025-07-05							
Date (s) of performance of tests :	2025-08-29 and 2025-11-19							
Object under analysis recognition :	Not carried out Except where stated, characteristics of products were taken from client description and were not verified by the laboratory							
General remarks:								
Throughout this report a ☐ comma / ☒ point is used as the decimal separator. Throughout this report, the term "Test item" is used over terms such as Test object, EUT or DUT. The ability or reliability of this product to perform its intended function in a particular application has not been investigated.								
Name and address of factory (ies) ^ :	-							
Environmental reference conditions :	The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits: <table border="1"> <thead> <tr> <th>Temperature</th> <th>Humidity</th> <th>Atmospheric pressure</th> </tr> </thead> <tbody> <tr> <td>15 °C – 35 °C</td> <td>30 % - 60 %</td> <td>800 hPa – 1060 hPa</td> </tr> </tbody> </table> If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report. The laboratory is monitored by a continuous environmental conditions measurements system. Temperature, humidity and pressure data are recorded on a weekly basis and stored in local archive.		Temperature	Humidity	Atmospheric pressure	15 °C – 35 °C	30 % - 60 %	800 hPa – 1060 hPa
Temperature	Humidity	Atmospheric pressure						
15 °C – 35 °C	30 % - 60 %	800 hPa – 1060 hPa						



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1 General description of test item ^

1.1 Test item(s)

No.	Test item name	Unique identification / type / description	Extent of test
1	1760/18	Video door phone (white enclosure)	Tested in full
Supplementary information: -			

1.2 Port(s)

No.	Port Name	Type	Cable		
			Specified length in m	Attached during test	Shielded
1	Enclosure	Enclosure	-	-	-
2	Mains IN	AC Mains input port	-	☒	☐
3	Antenna port	Integrated on PCB	-	☒	☐
Supplementary information: -					

1.3 Power rating(s)

Power supply type	☒	AC, 1 phase
	☐	AC, 2 phases
	☐	AC, 3 phases
	☒	Neutral
	☐	Protective Earth
	☐	DC
	☐	Battery, not rechargeable in the device
	☐	Battery, rechargeable in the device
Rated voltage	24 V AC	
Rated frequency	-	
Rated power	-	

1.4 Additional parameters

Software version.....:	-	
Hardware version	CST8504 CS1760-012	
Mounting position	☐	Table-top equipment
	☒	Wall/Ceiling mounted equipment
	☐	Floor standing equipment
	☐	Hand-held equipment
	☐	Vehicular
	☐	Other: -

1.5 Radio parameters

Radio module model	RTL8188EUS (Realtek)		
Operating frequencies	2412 – 2462 MHz		
Antenna parameters.....:	Type	☒ Integral	☐ Dedicated ☐ External
	Model	-	
	Gain	0.3 dBi	
Modulation Type	802.11: b/g/n		
Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps		
	802.11g: 54/48/36/24/18/12/9/6Mbps		
	802.11n: 65/52/6.5Mbps		

1.6 Operating mode(s)

No.	Abbreviation	Detailed description of the operating mode	Used for testing
1	Transmitting	Continuous modulated transmission, 100% duty cycle, 802.11b, 1M bit rate (worst case condition) (Possibility of selecting the desired frequencies).	☒
2	Receiving	Receiving mode (Possibility of selecting the desired frequencies).	☒
Supplementary information: -			

1.7 Auxiliary equipment

Advice to the TRF User: Include accessories which are not to be considered test items.

No.	Aux Item Name	Type and description	Manufacturer
1	TBD2 010 24 P2	AC-AC converter	COMATEC
Supplementary information: -			

1.8 Electromagnetically relevant components

Component	No.	Manufacturer	Model
Main board PCB	1	URMET	CST8504 CS1760-012
Wi-Fi radio module	1	Realtek	RTL8188EUS
Supplementary information: -			

1.9 Documents as provided by the applicant

No.	Document ref.	Type and description	Doc date
1	-	-	-
Supplementary information: -			

1.10 Modifications to the test item during testing

☒	No modifications done during testing
☐	Modifications done during testing (see details below)
Supplementary information: -	



2 Verdict summary section

Rationale for verdicts, including N/A (Not Applicable), are listed on each test sheet.

Emission requirements			
Clause	Requirement – Test case	Basic standard	Verdict
4.1	Radiated emission (30 MHz to 25 GHz)	CFR47 Part 15 – Subpart C 2023 §15.209 ANSI C63.4:2014 ANSI C63.10:2020	P
4.2	Conducted emission AC mains input / output port (150 kHz to 30 MHz)	CFR47 Part 15 – Subpart C 2023 §15.207 ANSI C63.4:2014 ANSI C63.10:2020	P
Supplementary information: -			



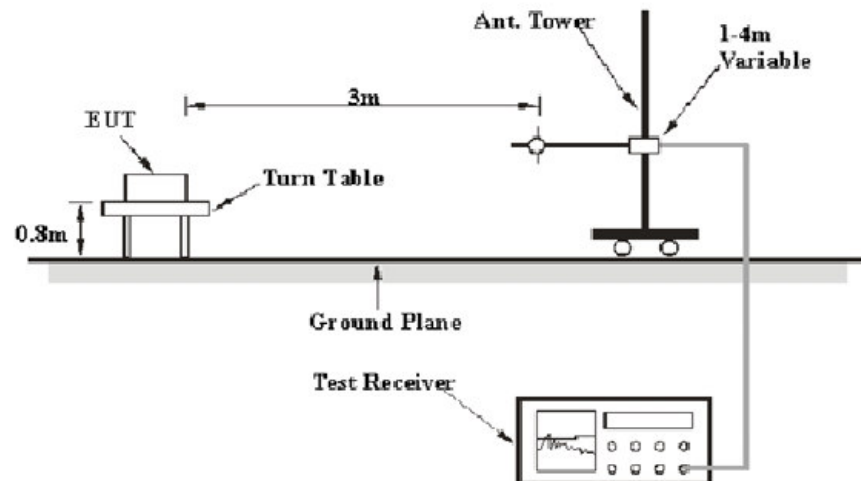
3 Test conditions

3.1 Test setups

Figure 3.1.1: Test setup 1 - Radiated emission

EUT Setup

Below 1 GHz:



Above 1GHz:

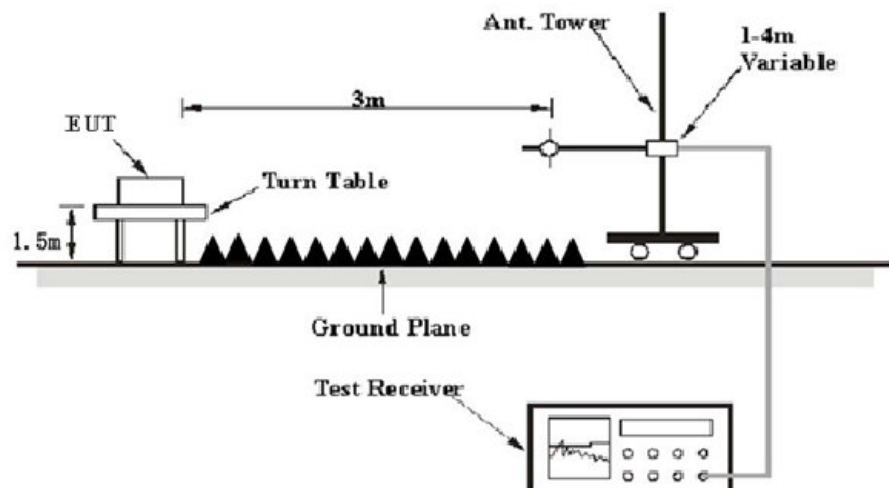
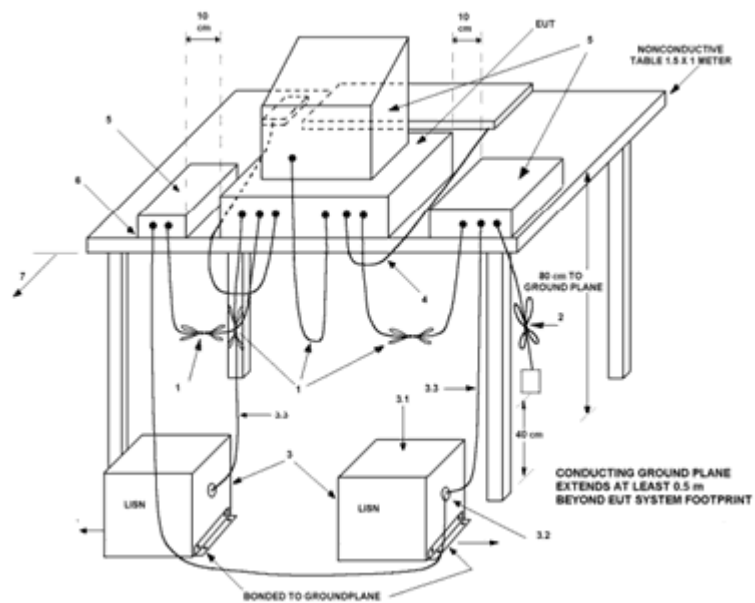


Figure 3.1.2: Test setup 2 - Conducted emission



4 Emission

4.1 Radiated emission (30 MHz – 25 GHz)

Name	Macri A.	
Date	2025-08-29	
Rationale for verdict N/A	-	

Test location (stand)	Viale Lombardia, 20/B – 20021 – Bollate, Italy	
Applied limit class	☐	Class A according to applied standard
	☒	Class B according to applied standard
	☐	Other: -
Test set up description	☒	Equipment on a table 80 cm height (30 – 1000 MHz)
	☒	Equipment on a table 150 cm height (1 – 25 GHz)
	☐	Equipment on the floor (isolated from ground plane)
	☐	Other (e.g. height of pallet): -
Supplementary test set up description	IF bandwidth (below 1000 MHz): 120 kHz IF bandwidth (above 1000 MHz): 1 MHz	
Test method applied	☒	OATS or SAC with measurement distance [m]: 3 m
	☐	FAR with measurement distance [m]:
	☐	TEM waveguide
	☐	CDN(E) according to CISPR 15
Supplementary information	In accordance with part 15.31 (f) (2), where the measurement distance was specified to be 30 or 300 meters, a correction factor was applied in order to permit measurement to be performed at a separation distance. The applied formula for limits at 3 meter is: Extrapolation (dB) = $40\log(300\text{meter} / 3\text{meter}) = +80\text{db}$ Extrapolation (dB) = $40\log(30\text{meter} / 3\text{meter}) = +40\text{db}$	

Test results for radiated emission	
Test item no(s) ref. cl. 1.2..... :	1
Operating mode no(s) ref. cl. 1.7. :	1, 2
Test setup no(s) ref. cl. 3.2..... :	Figure 3.2.1
Test procedure:	1) The EUT was placed on turntable which is 0.8 m above the ground plane for frequencies below 1GHz and 1.5m for frequencies above 1 GHz. 2) The turntable shall rotate from 0° to 360° degrees to determine the position of maximum emission level. 3) The EUT is positioned 3 m away from the receiving antenna which varied from 1 to 4 m to find the highest emission. 4) The measurements were made with the detector set to PEAK and AVERAGE amplitude. 5) The receiving antenna was positioned in both horizontal and vertical polarization. 6) The measurements with Quasi-Peak detector, below 1000 MHz are performed only for frequencies for which the Peak values are $\geq$ (Q.P. limit – 6 dB).

Diagram 4.1.1	Radiated emission test result 30-1000MHz Operating mode 1, worst channel frequency, Worst modulation (802.11b, 1M bit rate, 100% duty cycle) Antenna polarization: Horizontal + vertical, MAX HOLD
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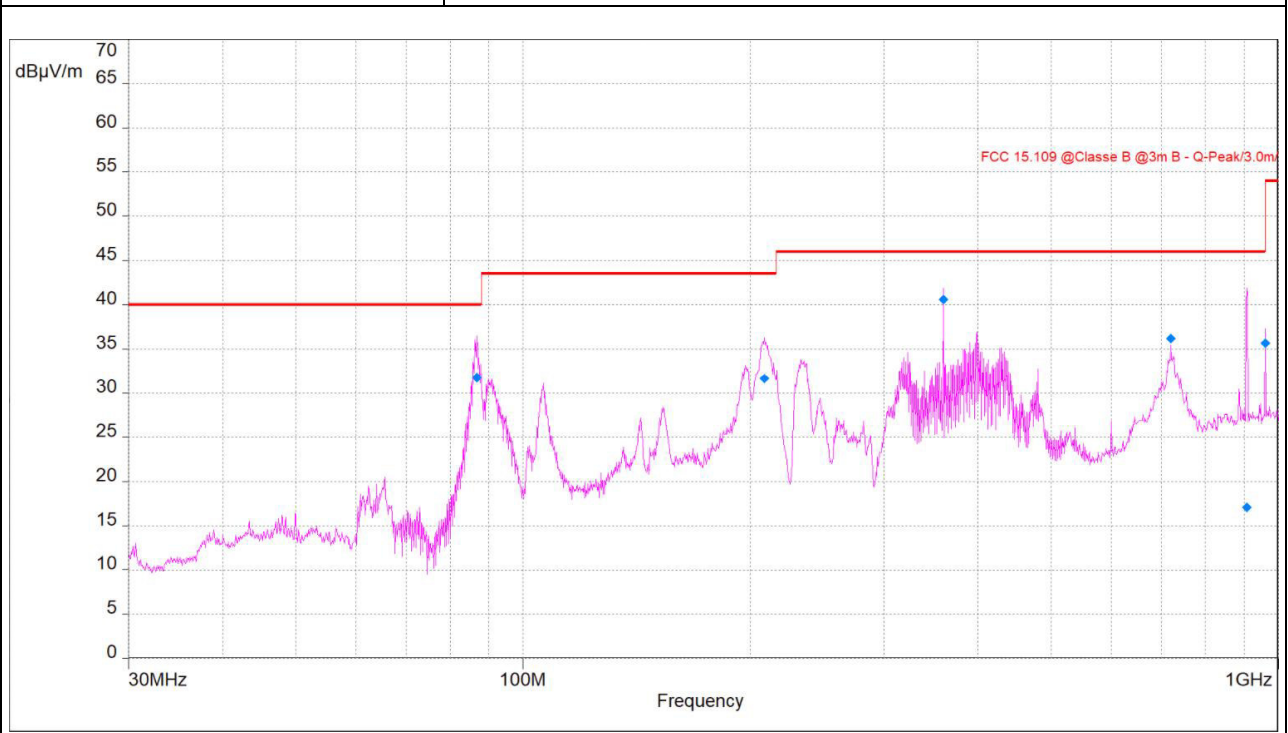


Diagram 4.1.2.....:

Radiated emission test result 1-6 GHz

Operating mode 1, worst channel frequency

Antenna polarization: Horizontal + vertical, MAX HOLD

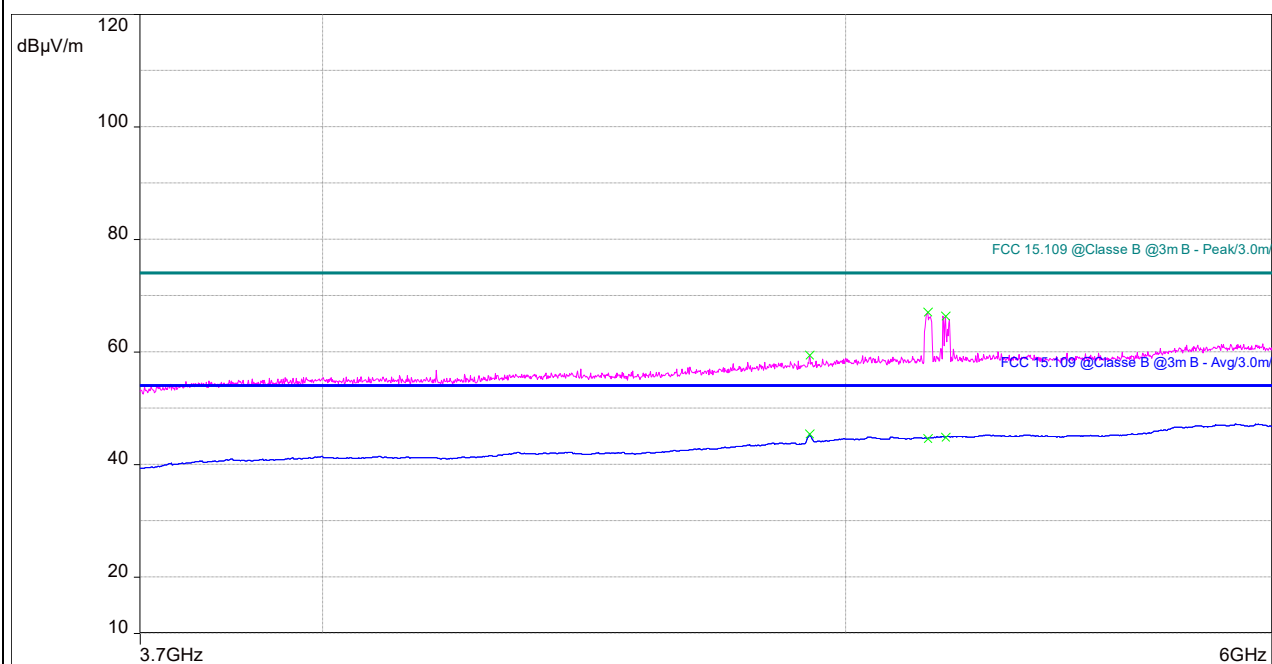
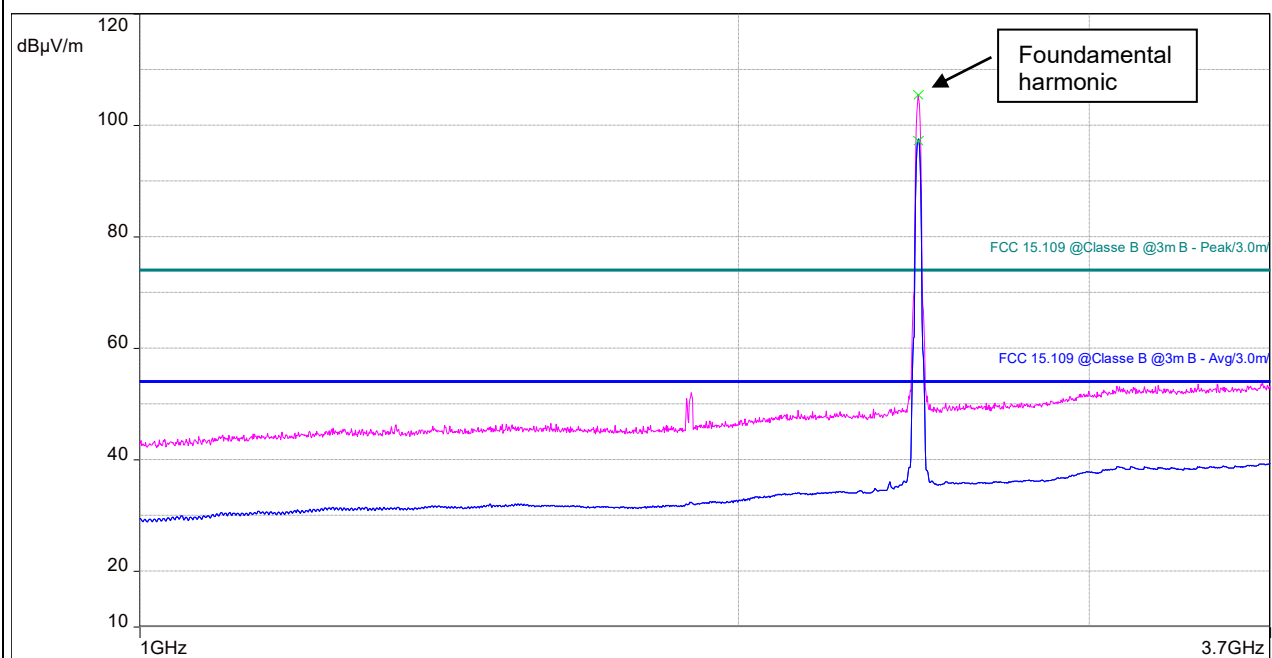
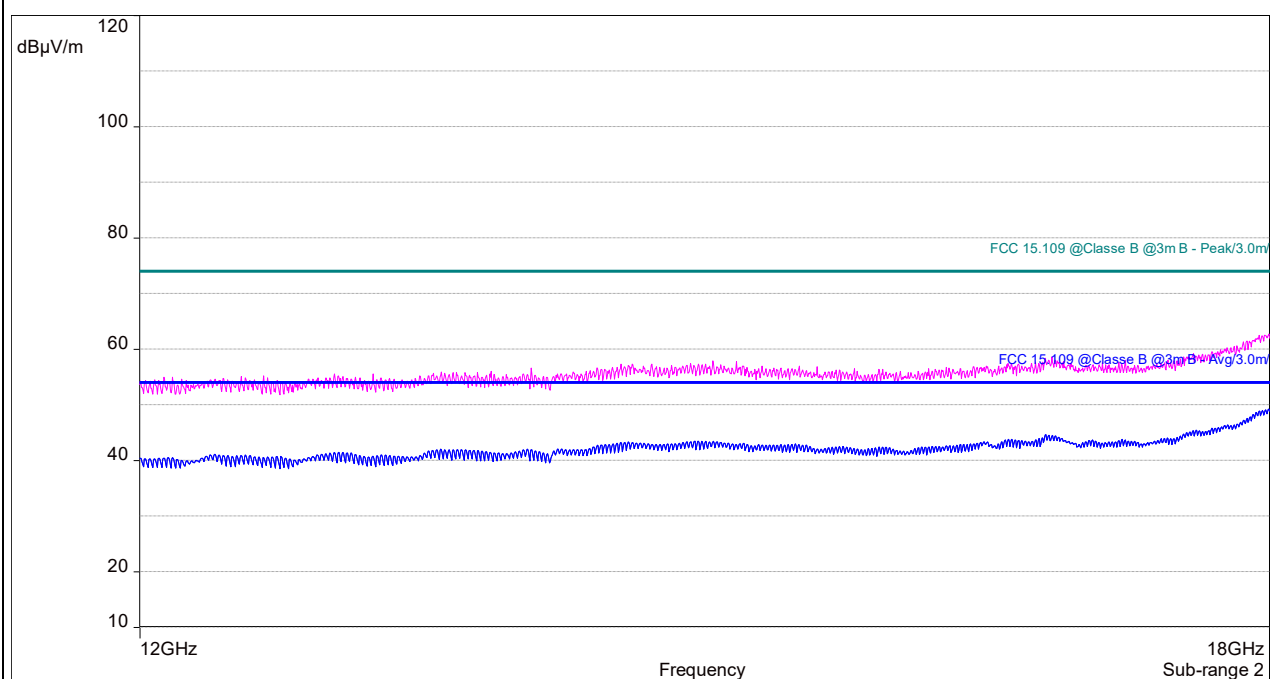
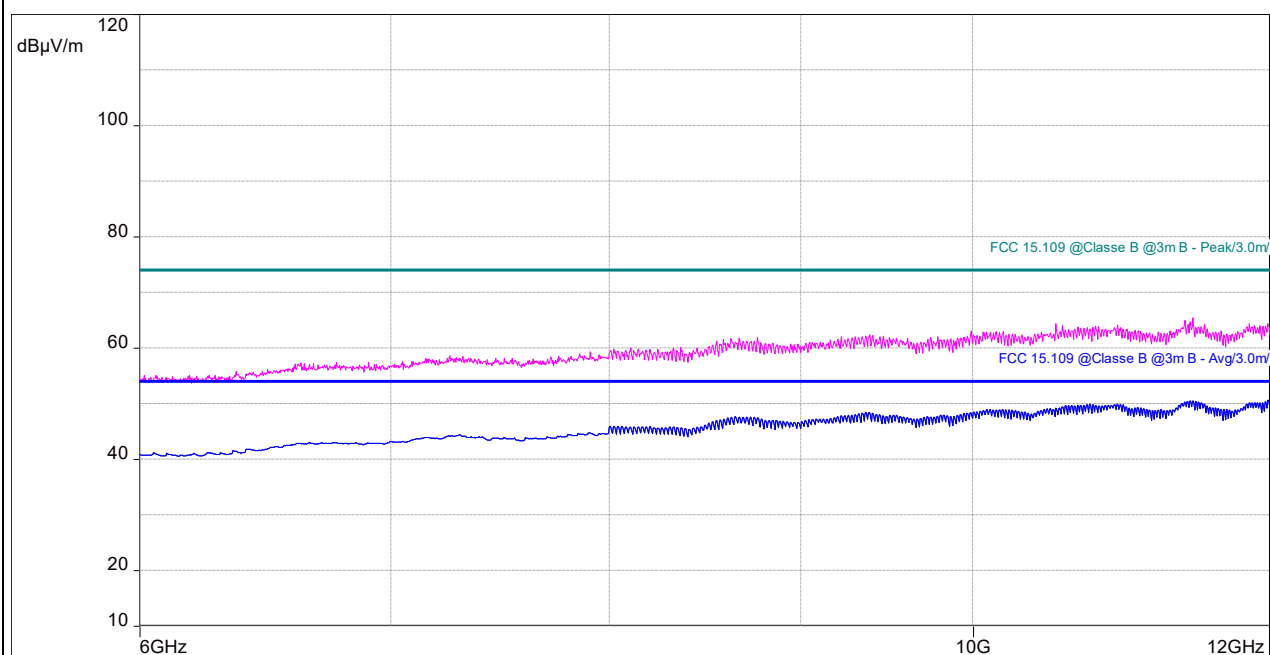
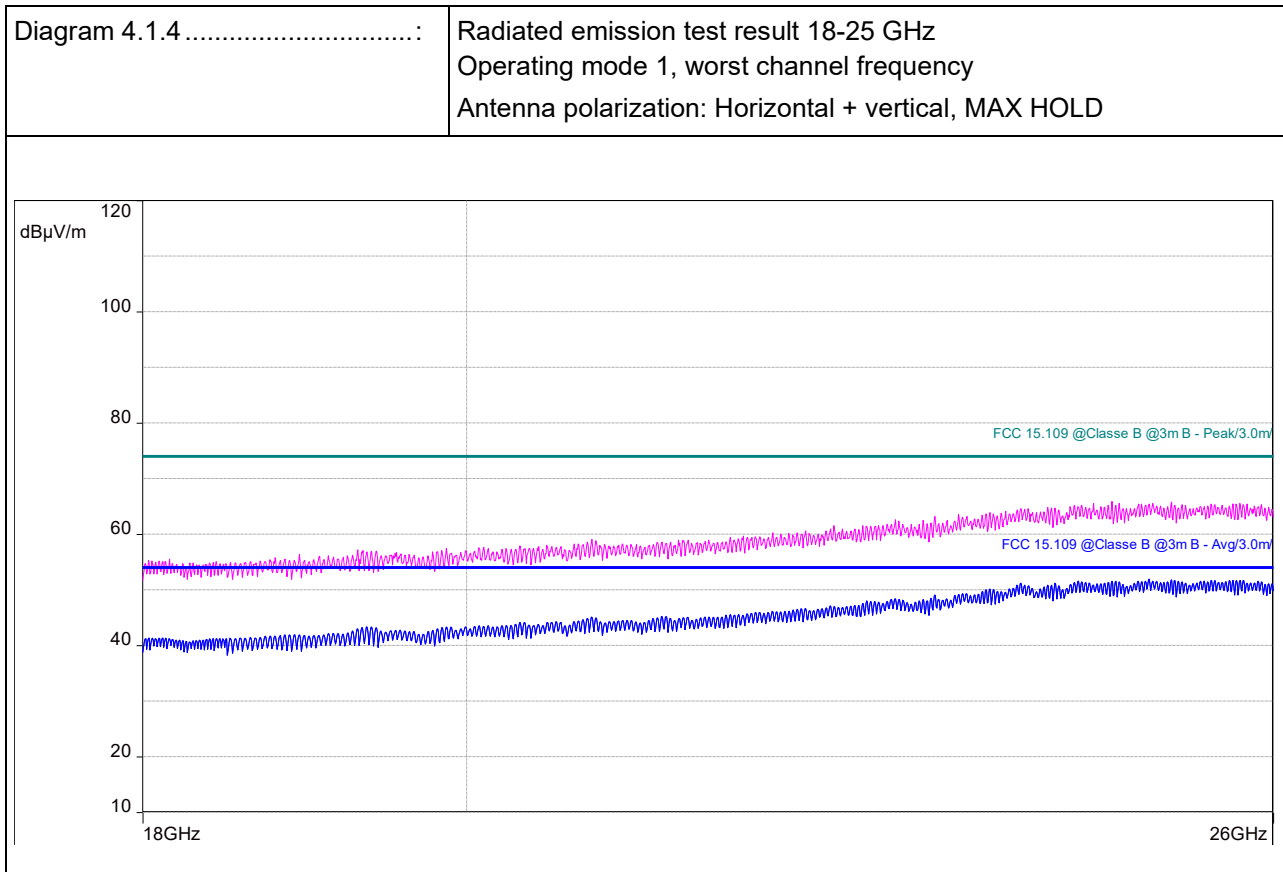


Diagram 4.1.3.....:

Radiated emission test result 12-18 GHz
Operating mode 1, worst channel frequency
Antenna polarization: Horizontal + vertical, MAX HOLD





RADIATED DISTURBANCES RESULTS									
Frequency	Detector	Receiver Reading Value	Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)		(dBμV)	Polar. (H/V)	Factor (dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
86.79	QPeak	52.68	Horizontal	8.78	0.76	30.50	31.72	40.00	8.28
208.5	QPeak	49.65	Horizontal	11.29	1.18	30.44	31.68	43.50	11.82
360.03	QPeak	53.94	Horizontal	15.10	1.58	30.01	40.61	46.00	5.39
720.03	QPeak	42.84	Horizontal	20.78	2.24	29.66	36.20	46.00	9.80
908.67	QPeak	20.52	Horizontal	22.82	2.57	28.82	17.09	46.00	28.91
960.06	QPeak	38.72	Horizontal	23.19	2.58	28.81	35.68	54.00	18.32
4923.75	Peak	49.91	Horizontal	32.45	9.57	32.47	59.46	74.00	14.54
4923.75	Average	35.87	Horizontal	32.45	9.57	32.47	45.42	54.00	8.58
5178.00	Peak	57.07	Horizontal	32.85	9.50	32.40	67.02	74.00	6.98
5178.00	Average	34.64	Horizontal	32.85	9.50	32.40	44.59	54.00	9.41
5218.00	Peak	56.55	Vertical	32.79	9.36	32.38	66.32	74.00	7.68
5218.00	Average	35.09	Vertical	32.79	9.36	32.38	44.86	54.00	9.14

NOTE: The measures above are the worst case on 2 axes X, Y and both polarizations.

Correct reading value = Reading value + antenna factor + cable loss - amplifier gain

4.2 Conducted emission (150 kHz – 30 MHz)

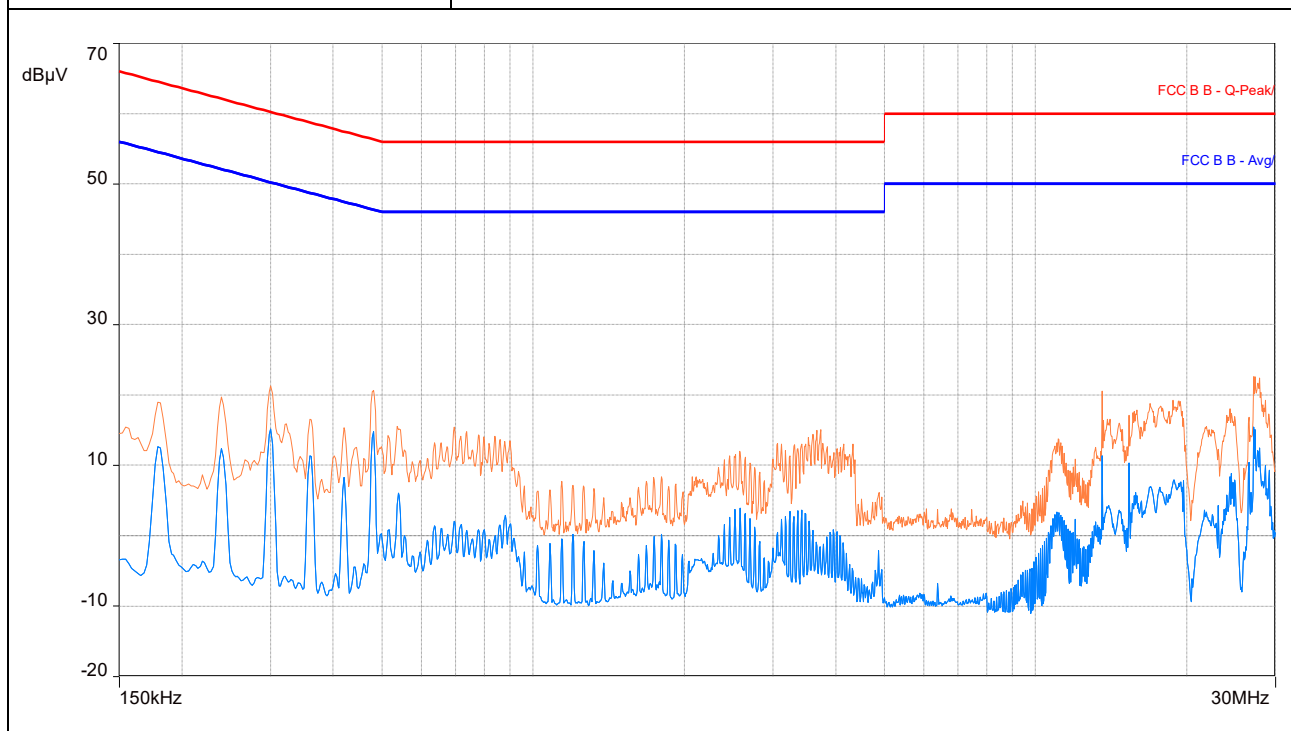
Tested by	Macri A.	
Test date.....	2025-11-19	
Rationale for verdict N/A	-	

Test location (stand).....	Viale Lombardia, 20/B – 20021 – Bollate, Italy	
Applied limit class or environment:	☐	Class A according to applied standard
	☒	Class B according to applied standard
	☐	Other: -
Test setup description	☒	Setup Type A (80 cm over ground plane)
	☐	Setup Type B (40 cm distance to horizontal ground plane)
	☐	Floor standing equipment setup (10 cm over ground plane)
	☐	Other: -
Supplementary test setup description	Test voltage 24V AC from AC/AC converter (model TBD2 010 24 P2)	
Test method applied	☒	Artificial mains network
	☐	Other: -
Supplementary information	-	



Test results for disturbance voltage / current	
Test item no(s) ref. cl. 1.2..... :	1,
Operating mode no(s) ref. cl. 1.6. :	1, 2
Test setup no(s) ref. cl. 3.3..... :	3.2.2

Diagram 4.2.1	Conducted emission test result 150kHz - 30MHz Operating mode 1, worst channel frequency, 802.11b, 1M bit rate. Port: Ac mains power port of ac/dc adapter Line: Phase + Neutral – MAX HOLD
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5 Measurement instrumentation uncertainties and decision rule

5.1 Measurement uncertainty

Information on uncertainty of measurement:

The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

IEC Guide 115 and IEC/TR 61000-1-6 provide guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer. Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number and title:

- *General Procedure PG-037 – Calibration process of test and measurement equipment*
- *Operational Instruction IO-LAB-001 – Estimation of Measurement Uncertainty of Tests in the IMQ Testing Laboratory*
- *Operational Instruction IO-LAB-004 – Definition of the uncertainty limits of the measuring instruments used in the IMQ Testing Laboratory*
- *Operational Instruction IO-LAB-009 - Calibration of the instrumentation and estimation of the measurement uncertainty in the EMC tests of the IMQ Laboratory*

The expanded uncertainty was calculated for all measurements and tests listed in this test report according to CISPR 16-4-2 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainty in EMC Measurements". with UKAS document LAB 34 and is documented in the quality system accordance to ISO/IEC 17025.

Internal Procedure PG-037 ensures that the requirements for traceability of calibrations. of all test equipment requiring calibration. and calibration intervals are met.

All instrumentation used for immunity tests is calibrated and within the specifications required by the basic standards (IEC 61000-4-X series).

Statements of conformity

The statement of compliance with specification (or requirements) is based on a 95% coverage probability for the expanded uncertainty of the measurements results on which the decision of compliance is based.

The statement of compliance relates only to the test sample as tested and no to the samples/items from which the test sample was drawn.

Unless otherwise indicated the documents are apply in the latest edition.



Where relevant, the following measurement instrumentation uncertainty levels have been estimated for tests performed on the apparatus:

Methods/Standard	Parameter	Expanded Uncertainty	Unit	Confidence level
Conducted disturbance	QP detector 150 k – 30 MHz	2.20	dB	95%
Radiated disturbance	Radiation disturbance (30-200 MHz)	4.80	dB	95%
	Radiation disturbance (200 -1000 MHz)	3.90	dB	95%
	Radiation disturbance (1-6 GHz)	4.80	dB	95%
	Radiation disturbance (6-18 GHz)	5.10	dB	95%
	Radiation disturbance (18-26 GHz)	5.30	dB	95%
	Radiation disturbance (26-40 GHz)	5.50	dB	95%



5.2 Decision rule

No decision rule is specified by the standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty in accordance to ILAC-G8:09/2019 and IEC Guide 115:2023 ("simple acceptance" decision rule, previously known as "accuracy method").

A binary decision rule it is possible as the result is limited to two choices (Pass or Fail):

When the criterion for the expanded MIU for the specific measurement method is not evaluated in the standard:

- Pass (compliance) : the measured value not exceeds the disturbance limit;
- Fail (non-compliance) : the measured value exceeds the disturbance limit.

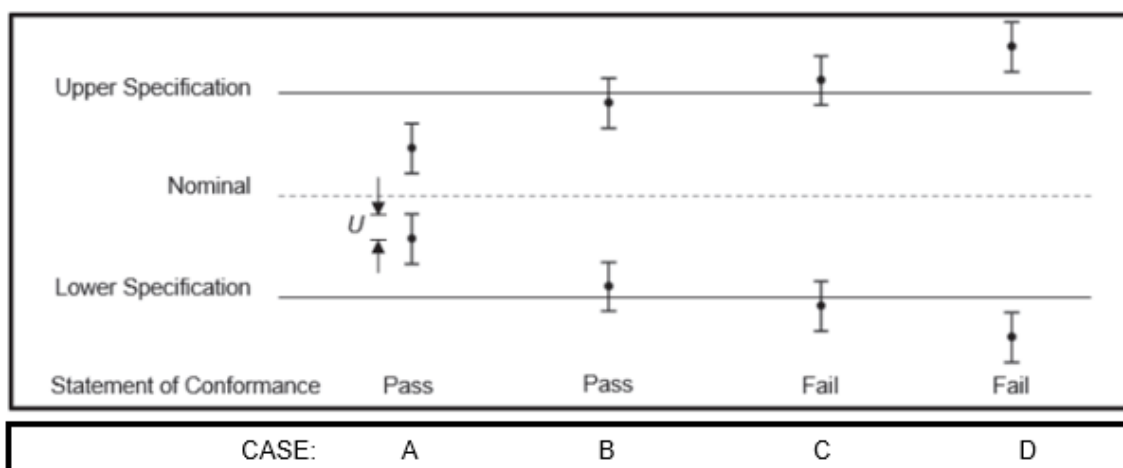
When the criterion for the expanded MIU for the specific measurement method is evaluated in the standard:

If U_{LAB} is less than or equal to U_{STD} , then:

- Pass (compliance) is deemed to occur if no measured disturbance level exceeds the disturbance limit.
- Fail (non-compliance) is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{LAB} is greater than U_{STD} , then:

- Pass (compliance) is deemed to occur if no measured disturbance level, increased by ($U_{LAB} - U_{STD}$), exceeds the disturbance limit.
- Fail (non-compliance) is deemed to occur if any measured disturbance level, increased by ($U_{LAB} - U_{STD}$), exceeds the disturbance limit.



Remark: the probability to be outside the tolerance limit may be as high as 50% in the case when a measurement result is exactly on the tolerance limit (CASE B and C), assuming a symmetric normal distribution of the measurements.

Definitions:

- MIU : measurement instrumentation uncertainty.
- U_{LAB} : expanded MIU determined by the test laboratory.
- U_{STD} : expanded MIU evaluated by the standard for specific measurement method.
- U : 95 % expanded measurement uncertainty.

6 List of test equipment

Equipment used					
Equipment	Type	Inventory number	Manufacturer	Last calibration	Calibration due date
Environmental parameters (temperature, humidity, pressure)					
Data logger	DELTAOHM	HD35EDL14bNTV.E	S-07880	2025-04-23	2026-04-23
Conducted emission					
EMI Receiver	ROHDE & SCHWARZ	ESU 8	S-05562	2024-11-20	2025-11-20
LISN	SCHWARZBECK	NSLK 8128 RC	S-09217	2025-02-10	2026-02-10
Cable	MICRO-COAX ROSENBERGER	UFB311A	S-10293	2025-02-10	2026-02-10
Software	NEXIO	BAT-EMC V3.21.0.14	W-03027	-	-
PC	-	-	-	-	-
Radiated emission					
Shielded anechoic chamber	ETS-LINGREN	FTF-305	P-04112	2024-05-03	2027-05-03
EMI receiver	ROHDE & SCHWARZ	ESW44	S-07965	2025-02-13	2026-02-13
Cable	HUBER+SUHNER	SF118/11N/11N/10000	S-09153	2025-04-03	2026-04-03
Cable	HUBER+SUHNER	SF118/11N/11N/6000	S-09157	2025-04-03	2026-04-03
Cable	HUBER+SUHNER	SF118/11N/11N/3000	S-09158	2025-04-03	2026-04-03
Preamplifier	SCHWARZBECK	BBV 9744	S-09213	2025-02-12	2026-02-12
Preamplifier	HEWLETT & PACKARD	HP 8449B	S-03542	2025-04-03	2026-04-03
Preamplifier	SCHWARZBECK	BBV 9721	S-09215	2024-11-22	2025-11-22
BiLog antenna	SCHWARZBECK	VULB 9162	S-09211	2024-06-27	2027-06-27
Horn antenna	SCHWARZBECK	BBHA 9120D	S-09212	2024-06-25	2027-06-25
Horn antenna	SCHWARZBECK	BBHA 9170	S-03724	2023-08-08	2026-08-08
Software	ROHDE & SCHWARZ	BAT-EMC V3.21.0.14	/	/	/
PC	/	/	/	/	/

Measuring instruments are always used within the period of validity of the calibration. All the traceability information is recorded in the Test Report or in Laboratory intranet system.



7 Photographic documentation

EUT IDENTIFICATION and TEST SET-UP

See Annex 1

8 Opinions and interpretations - not object to accredia accreditation

Not Applicable

END OF TEST REPORT

