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Test report issued under the responsibility of:

EMITECH MONTPELLIER laboratory
MRA US-EU Designation Number: FR0006
Canadian CAB Identifier: FR0003

EMC TEST REPORT

FCC part 15 ANSI C 63.4: 2014 ICES-001 Issue 5 July 2020

Company: UNICACCES GROUPE

Address.....: 24 chemin des Vieilles Vignes

84240 LA TOUR D'AIGUES

FRANCE

Test item description. Badge management

Model/Type reference.....: Extension (with Centrale) / UGP-CTR-E

Ratings....: 12Vdc

Testing Laboratory EMITECH MONTPELLIER laboratory

Address.....: 145 rue de Massacan

34740 VENDARGUES

FRANCE

Report Reference No...... RC-EVE-23C710-2A

Test procedure.: Certification
Diffusion. ...: MR FAUVEL

Applicant's name.: UNICACCES GROUPE

Date of issue.....: May 19, 2025

Total number of pages.....: 20 Revision....: 0

Compiled by...... Fabien MOINACHE

Approved by (+ signature).: David MONTAULON (Technical Manager)

Duplication of this test report is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above. This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.



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REVISION HISTORY:							
Revision	Date	Modified pages	Modifications				
0	May 19, 2025	/	Creation				



1. GENERAL INFORMATIONS

This document submits the results of Electromagnetic Compatibility tests performed on the equipment **Badge management Extension (with Centrale) / UGP-CTR-E** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed in §2 of this test report.

TESTING PROCEDURE AND TESTING LOCATION:

Testing Location: EMITECH MONTPELLIER laboratory

Address. 145 rue de Massacan

34740 VENDARGUES

FRANCE

Test procedure.: Certification

Tested by Fabien MOINACHE

Test supervisor: None Date of receipt of test item N/A

Date (s) of performance of tests...... June Between the 5th to the 13th of 2024

APPLICANT'S GENERAL INFORMATIONS:

Company name.....: UNICACCES GROUPE

Company address. 24 chemin des Vieilles Vignes

84240 LA TOUR D'AIGUES

FRANCE

Person(s) present during the tests.....: Mr MERLE Responsible.....: MR FAUVEL

GENERAL REMARKS:

The information in italics is declared by the manufacturer and is under his responsibility. The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report the decimal separator is point.

POSSIBLE TEST CASE VERDICTS:

Test case does not apply to the test object.: N/A
Test case not performed......: N/P
Test object does meet the requirement.....: P (Pass)
Test object does not meet the requirement. F (Fail)

....:

DEFINITIONS AND ABBREVIATIONS:

E.U.T. **Equipment Under Test** ΑE **Ancillary Equipment** Pk Peak detector **RBW** Resolution BandWidth **VBW** Video BandWidth QP Quasi-peak detector **FSOATS** Free Space Open Area Test Site FAR Full Anechoic Room Αv Average detector VΡ Horizontal Polarization Vertical Polarization HP RMS Root Mean Square RF Radio Frequency N.T.R Nothing To Report N/C Not Communicated

SAC Semi Anechoic Chamber



2. REFERENCE DOCUMENT(S)

NORMATIVE REFERENCES:

The following referenced documents are necessary for the application of the present test report.

FCC 47 Part 15

Code of Federal Regulations

Title 47 – Telecommunications

Chapter 1 – Federal Communications Commission

Part 15 – Radio frequency devices

Subpart B – Unintentional Radiators

ANSI C 63.4: 2014

American National Standard for Methods of measurement of Radio-Noise from low-voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

ICES-001 Issue 5 July 2020

Industrial, Scientific and Medical (ISM) Equipment

Although the product standard uses obsolete technical standards, the latest versions of standards achievable by the laboratory will be used for testing.

INFORMATIVE REFERENCES:

The following referenced documents are not necessary for the application of the present test report but they assist the user with regard to a particular subject area.



3. EQUIPMENT TECHNICAL DESCRIPTION

3.1. Test Conditions

Test item description. Badge management

Model/Type reference.....: Extension (with Centrale) / UGP-CTR-E

Type of sample.....: Standard equipment

Function(s)..... Extension box for 4 more readers and other Extension boxes,

door keeper (relay), general inputs and communication with

supervisor (events...)

Manufacturer name.: Unicacces Groupe SAS

Address. 24 Chemin des Vieilles Vignes - ZA LE REVOL

84240 La Tour-d'Aigues

FRANCE

General product information:

N/A



3.2. E.U.T. General view





3.3. E.U.T. Mechanical and Electrical Design

Power supply : 12Vdc
Power supply range : 12Vdc

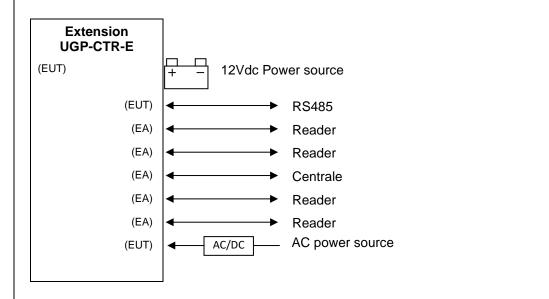
Ground bounding strap.....: No

Comments:

N/A



3.4. E.U.T. Input/Output ports



Port	Name	Түре	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/E	N/A	Plastic	N/A
1	12Vdc Power source	DC	N/A	Not shielded	N/A
2	RS485	I/O	>3m	Not shielded	N/A
3	Reader	I/O	>3m	Not shielded	N/A
4	Reader	I/O	>3m	Not shielded	N/A
5	Centrale	I/O	>3m	N/A	EA
6	Reader	I/O	>3m	Not shielded	N/A
7	Reader	I/O	>3m	Not shielded	N/A
9	Power supply	AC/DC	N/A	Not shielded	N/A

AC/DC: AC/DC Converter port AC......: Alternative current port DC......: Direct current port I/O: Telecommunication port RF......: Radio frequency port

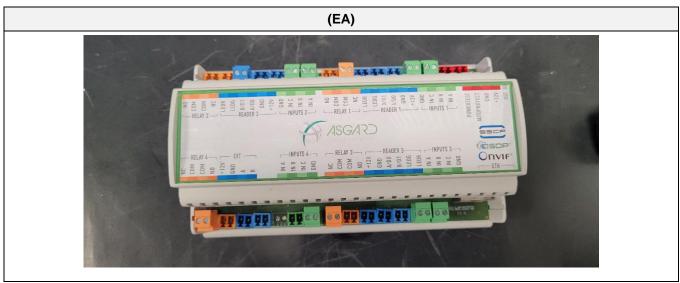
N/E: Non Electrical port

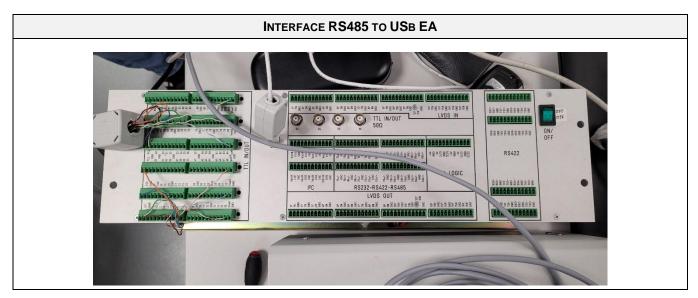
3.5. Supporting Equipment Used During Test

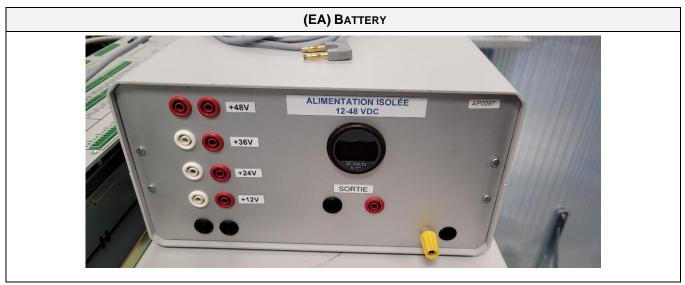
Sample subject to the tests was tested with following equipment.

PRODUCT TYPE	MANUFACTURER	MODEL	N°EMITECH / COMMENTS
EA	UNICACCES	UGP-CTR	N/A
Interface RS485 /USB	UNICACCES	N/A	N/A
Battery	UNICACCES	N/A	N/A
Laptop	Packard Bell	MS2290	N/A
Power supply	IZYX	PSXM-1203	N/A
Reader	UNICACCES	N/A	N/A
reader	01410/10020	14/71	14//

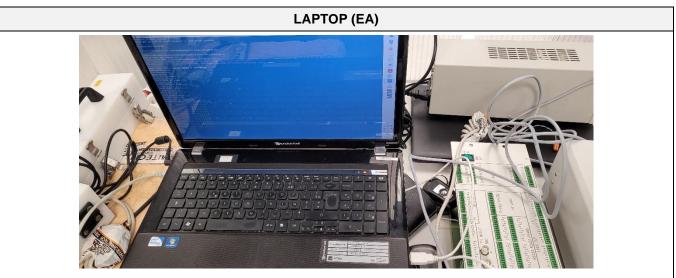


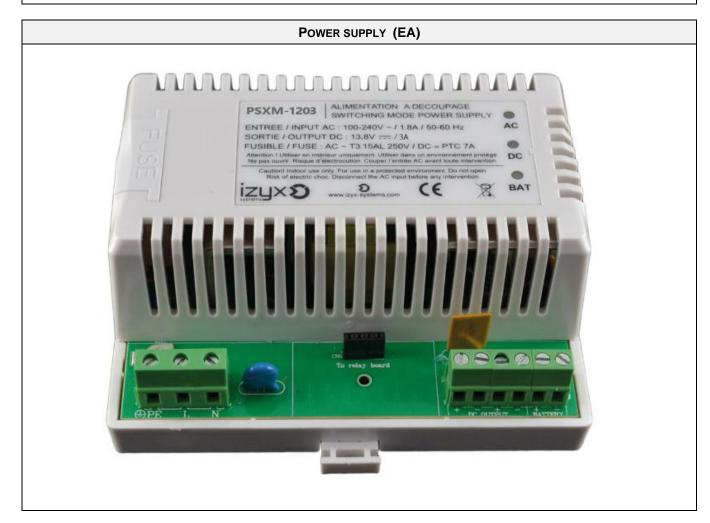


















3.6. EMC Environment and Performance Criteria

According to manufacturer's declarations:

Electromagnetic environment.....: Light Industry

Professional use ?: Yes

Typical mounting: Wall mounted equipment

Internal frequencies: 100MHz
Configuration(s): N/A

Comments:

1

N/A

a)	EUT	OPERATION	Modes:

MODE # DESCRIPTION

2 2 OSDP readers on ports 1 and 2. Valid badge on reader 2, 2 other Wiegand readers on

ports 3 + 4. Cycle: valid badge reading, open door, close door

Opinion(s) and interpretation(s)

TEST(S) PERFORMED	DEVIATION(S) TO TEST METHOD(S)
CISPR 11: 2015 / AMD1: 2016 / AMD2: 2019	N/A
ANSI C63.4: 2014	N/A

Comments: N/A



4. EUT REQUIREMENTS FOR FCC RULES

4.1. Subpart A - General

This part sets out the regulations under which an intentional, unintentional, or incidental radiator may be operated without an individual license. It also contains the technical specifications, administrative requirements and other conditions relating to the marketing of part 15 devices.

The user notice, shall include the following informations:

a) LABELING REQUIREMENTS (§15.19):

Equipment authorization: Supplier's Declaration of Conformity (SDoC) or Certification

List of different type of devices and associated "statement on product":

§15.19(a)(1) - Receivers associated with the operation of a licensed radio service:

"This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference."

§15.19(a)(2) - A stand-alone cable input selector switch:

"This device complies with part 15 of the FCC Rules for use with cable television service."

§15.19(a)(3) - All other devices:

"This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

§15.19(a)(4) - Where a device is constructed in two or more sections connected by wires and marketed together:

The statement specified only to the main control unit:

"This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference."

§15.19(a)(5) - When the device is so small:

The statement of §15.19(a) shall be placed in the user manual and must also either be placed on the device packaging or on a removable label attached to the device.

Compliance information (§2.1077):

The identification, by name, address and telephone number or internet contact information, of the responsible party, as defined in § 2.909 of the standard. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

Identification (§2.1074):

- (a) Devices subject only to Supplier's Declaration of Conformity shall be uniquely identified by the party responsible for marketing or importing the equipment within the United States.
- (b) Devices subject to authorization under Supplier's Declaration of Conformity may be labeled with the following logo on a voluntary basis as a visual indication that the product complies with the applicable FCC requirements.



(image size: 6.7 x 2.8" ;3.5 x 1.4" ;1.6 x .7")

The label shall be located in a conspicuous location on the device.

The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible (font of at least 4-point or larger) to the purchaser at the time of purchase.



b) DEVICES INCLUDING MODULAR TRANSMITTER(S) (§15.212):

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following:

"Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1."

Device under test includes single modular transmitter(s):

FCC ID: N/A IC: N/A

c) Information to user (§15.21):

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that:

"The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment"

4.2. Subpart B - Unintentional Radiators

In addition to Subpart A, the user notice, shall include the following informations:

d) Information to user (§15.105):

Equipment authorization: Supplier's Declaration of Conformity (SDoC) or Certification

§15.105(a) - For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

"NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense."

§15.105(b) - For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

"NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- —Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/TV technician for help."



5. RESULT SUMMARY

TEST DESIGNATION	SEVERITY	VERDICT	BASIC STANDARDS / COMMENTS
Conducted emission (measurement)			ANSI C63.4: 2014
- Power Supply 120Vac/60Hz / RF OFF	15.107	PASS	
- Power Supply 120Vac/60Hz	15.107	PASS	
Measurement of radiated disturbances			ANSI C63.4: 2014
- IP central unit 3 Readers in 12Vdc + Extension 4 Readers / Battery	15.109	PASS	

Sample subject to the test complies for tests done with the requirements of the reference document(s) listed in §2 of this test report and, where applicable, with deviation(s) specified in this document.

To declare, or not, the compliance with the specifications, it was not explicitly taken into account of uncertainty associated with the results with the exception of emission tests based on CISPR standards.

TEST(S) PERFORMED	Modification(s)
CISPR 11: 2015 / AMD1: 2016 / AMD2: 2019	N/A
ANSI C63.4: 2014	N/A

6. MEASUREMENT UNCERTAINTY

Uncertainties values presented below are required by standards:

PARAMETER	MAXIMAL EMITECH UNCERTAINTY	STANDARD UNCERTAINTY	
Conducted emission			
(Artificial Mains Network) 3kHz – 9kHz	\pm 3.8 dB	/	
(Artificial Mains Network) 9kHz – 150kHz	\pm 3.6 dB	± 3.8 dB	
(Artificial Mains Network) 150kHz – 30MHz	± 3.4 dB	± 3.4 dB	
Radiated magnetic field emission			
9kHz – 30MHz	\pm 2.7 dB	/	
Radiated electric field emission			
(FSOATS/SAC) HP-VP 30MHz – 200MHz	\pm 4.8 - 5.0 dB	± 5.1 - 5.2 dB	
(FSOATS/SAC) HP-VP 200MHz – 1GHz	\pm 5.0 - 5.0 dB	± 5.3 - 6.3 dB	
(FSOATS/SAC) HP-VP with bilog. 30MHz – 1GHz	± 5.1 - 5.2 dB	± 5.3 - 6.3 dB	
(FAR) HP-VP 30MHz – 200MHz	\pm 4.7 - 4.9 dB	± 5.0 dB	
(FAR) HP-VP 200MHz – 1GHz	\pm 5.0 - 5.0 dB	± 5.3 dB	
(FAR) HP-VP with bilog 30MHz – 1GHz	± 5.1 - 5.2 dB	± 5.3 - 6.3 dB	
(FSOATS/FAR) 1GHz - 6GHz	\pm 5.0 / 5.2 dB	± 5.2 dB	
(FSOATS/FAR) 6GHz - 18GHz	\pm 5.3 / 5.4 dB	± 5.5 dB	
18GHz - 40GHz	\pm 6.1 dB	/	
40GHz - 140GHz	\pm 5.7 dB	/	

For the calculation of expanded uncertainty, the confidence interval is 95 % (k=2).



7. TEST CONDITIONS AND RESULTS

7.1. Conducted emission (measurement)

Reference standard:	FCC 47 CFR PART 15.107 ICES-001 Issue 5 July 2020
Test method:	ANSI C63.4: 2014 CISPR 11: 2015 / AMD1: 2016 / AMD2: 2019

General test setup: EUT is set on an insulating support at 40cm from the ground reference plane. All power was connected to the system through Artificial Mains Network (AMN). The AMN is placed at 80cm from the boundary of the EUT and bonded to a ground reference plane.

All tested telecommunications lines (if applicable) were connected to an Asymmetric Artificial Network (AAN) and conducted voltage measurements on telecommunications lines were made at the output of the AAN.

Where an AAN was not appropriate or available, measurements were made using a Capacitive Voltage Probe and/or a Current probe.

Additionnal ground terminals (if any) are connected to earth terminal of the AMN.

TESTED CABLE	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Power Supply 120Vac/60Hz / RF OFF	150kHz-30MHz	15.107	EMI4661	PASS
Power Supply 120Vac/60Hz	150kHz-30MHz	15.107	EMI4662	PASS

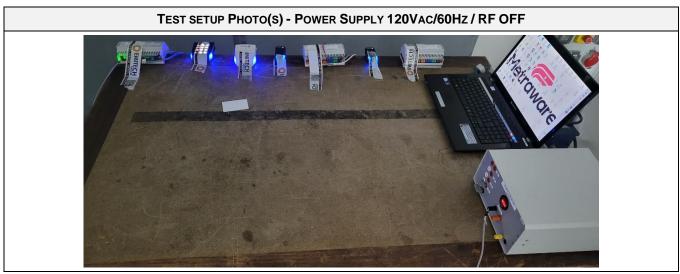
LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST			
Ambient Temperature	15 to 35 °C	See Graph(s)			
Relative Humidity	30 to 60 %	See Graph(s)			
Atmospheric pressure	N/A	See Graph(s)			
Test method deviation: N/A					
Supplementary information: N/A					

TEST EQUIPMENT USED							
CATEGORY	BRAND	Түре	IDENTIFIER	CAL. DATE	CAL. DUE		
AC power source	KIKUSUI	PCR 4000L	15322	20/02/2024	20/04/2026		
Cable	EMITECH	Current absorber sheath	18366	17/08/2023	17/10/2025		
Cable	1	N-3m 3GHz	16410	16/08/2023	16/10/2025		
Ground plane	EMITECH	Test area	11569				
LISN	Rohde & Schwarz	ENV216	17925	06/12/2023	06/02/2026		
PE choke	EMITECH	CISPR 16-2-1: 2008	10071				
Receiver	Rohde & Schwarz	ESI	9704	26/01/2024	26/03/2025		
Software	Nexio	BAT EMC	0000				
Thermohygrometer	Testo	608-H2	12269	10/06/2022	10/08/2024		
Thermohygrometer	Bioblock Scientific	Météostar	0963	25/09/2023	25/11/2025		

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

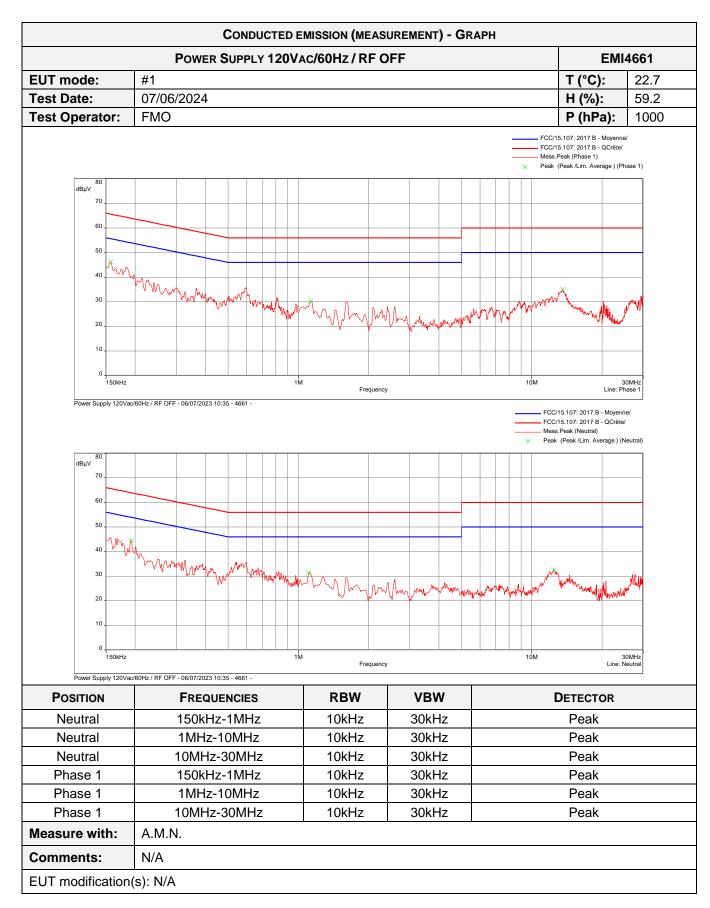




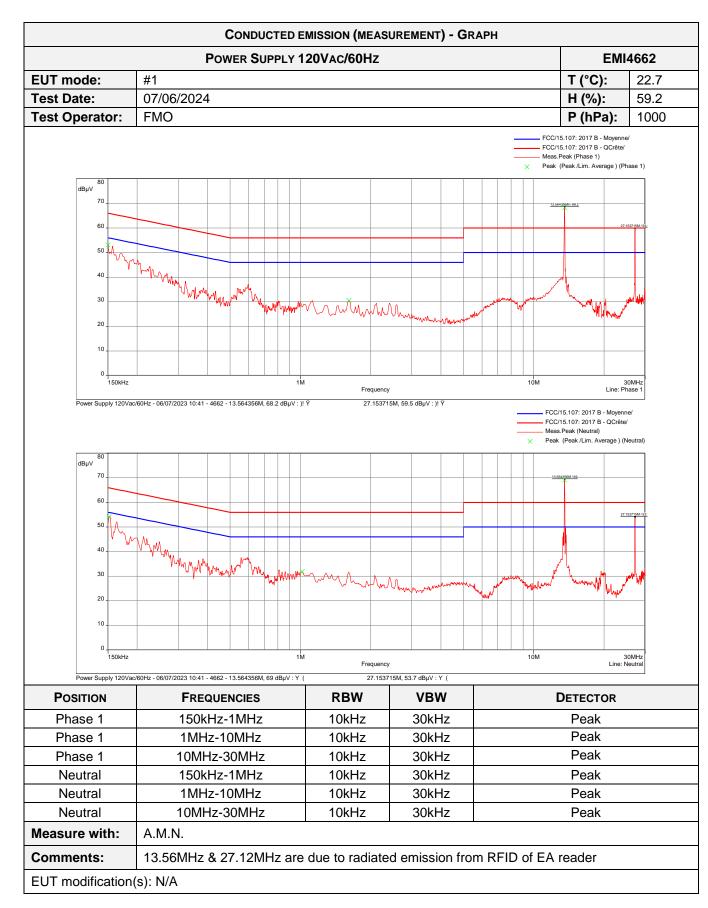
CONDUCTED EMISSION (MEASUREMENT) - TABULATED RESULTS POWER SUPPLY 120VAC/60Hz / RF OFF							
Terminal Test Detector (Pk/QP/Av) Gain/Loss Level Limit dB (μV) dB (μV)							
Line 1	0.193	Pk	9.60	44.45	53.92	-9.47	
Line 1	1.108	Pk	9.63	31.48	46.00	-14.52	
Line 1	12.44	Pk	9.87	32.60	50.00	-17.40	
Neutral	0.157	Pk	9.59	46.30	55.63	-9.33	
Neutral	1.126	Pk	9.63	30.21	46.00	-15.79	
Neutral	13.56	Pk	9.88	35.02	50.00	-14.98	

CONDUCTED EMISSION (MEASUREMENT) - TABULATED RESULTS								
	EMI4662							
Terminal	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
Line 1	0.150	Pk	9.60	53.08	56.00	-2.92		
Line 1	1.613	Pk	9.65	30.49	46.00	-15.51		
Line 1	13.56	Pk	9.88	68.22	50.00	18.22		
Neutral	0.152	Pk	9.60	54.20	55.91	-1.71		
Neutral	1.018	Pk	9.63	31.85	46.00	-14.15		
Neutral	13.56	Pk	9.88	69.06	50.00	19.06 *		
Supplementar	Supplementary information: * 13.56MHz is due to radiated emission from RFID of EA reader							











7.2. Measurement of radiated disturbances

Reference standard:	FCC 47 CFR PART 15.109 ICES-001 Issue 5 July 2020
Test method:	ANSI C63.4: 2014

General test setup: EUT is set on an insulating support at 80cm above the ground reference plane.

First (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located in horizontal and vertical polarities and, for SAC method, at various heights.

Final measurements (quasi-peak) were then performed in a reference test site that complies to CISPR 16-1-4. The EUT was rotated 360° about its azimuth and, for SAC method, adjusting the receive antenna height from 1 to 4 m.

All frequencies were investigated in both horizontal and vertical antenna polarization, where applicable.

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
IP central unit 3 Readers in 12Vdc + Extension 4 Readers / Battery	30MHz-1GHz	15.109	EMI4663	PASS

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	10 to 40 °C	See Graph(s)
Relative Humidity	10 to 90 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
Test method deviation: N/A		
Supplementary information: N/A		

TEST EQUIPMENT USED							
CATEGORY	BRAND	ТҮРЕ	IDENTIFIER	CAL. DATE	CAL. DUE		
Antenna	ETS lindgren	3142E	14523	27/01/2022	27/03/2025		
Cable	SUCOFLEX	N-3m	14378	17/08/2023	17/10/2025		
Cable	SUCOFLEX	N-6,5m	14380	17/08/2023	17/10/2025		
Cable	Techniwave	N-8m	18349	17/08/2023	17/10/2025		
Receiver	Rohde & Schwarz	ESW26	17791	08/07/2023	08/09/2024		
Shielded enclosure	COMTEST	SAC 3m	14494	09/08/2023	09/10/2026		
Software	Nexio	BAT EMC	0000				
Thermohygrometer	Testo	608-H2	12269	07/06/2022	07/08/2024		
Thermohygrometer	Bioblock Scientific	Météostar	0963	25/09/2023	25/11/2025		

BAT-EMC software version: V3.18.0.26

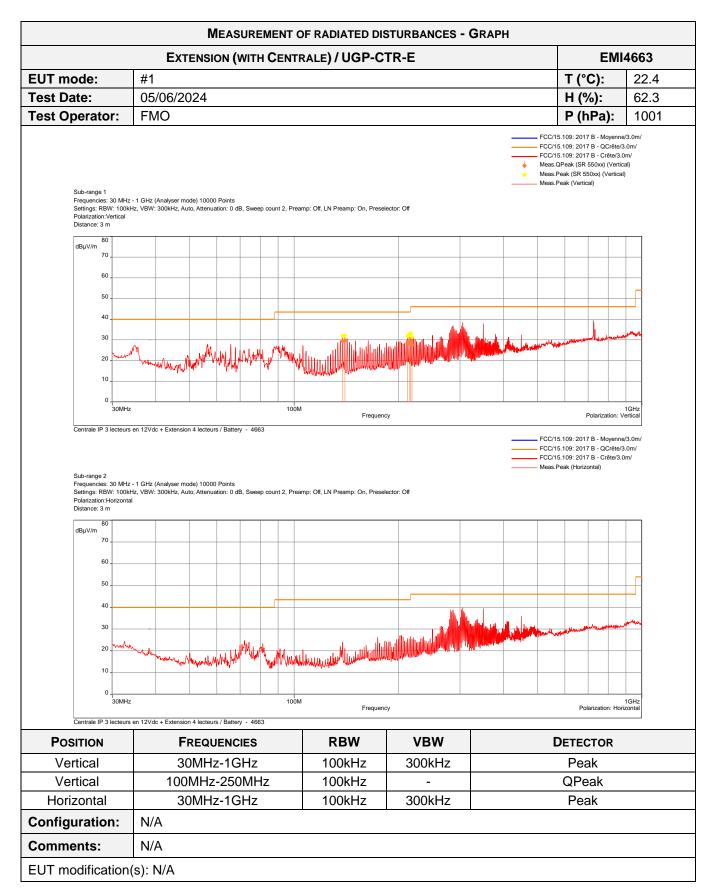
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TEST SETUP PHOTO(S) - EXTENSION (WITH CENTRALE) / UGP-CTR-E

	MEASUREMENT OF RADIATED DISTURBANCES - TABULATED RESULTS								
EXTENSION (WITH CENTRALE) / UGP-CTR-E								EMI4663	
Test Freq. (MHz)	Detector (Pk/QP/ Av)	Ant. position	Azimuth (°)	Ant. Height (cm)	Cor. Factor (dB)	Level dB (µV/m)	Limit dB (µV/m)	Margin (dB)	
137.87	QP	Verticale	300	100	15.60	29.40	43.50	-14.10	
140.01	QP	Verticale	300	100	15.60	29.72	43.50	-13.78	
212.09	QP	Verticale	300	100	18.53	28.20	43.50	-15.30	
214.22	QP	Verticale	300	100	18.52	29.53	43.50	-13.97	
216.26	QP	Verticale	300	100	18.56	28.28	46.00	-17.72	
218.39	QP	Verticale	300	100	18.65	27.74	46.00	-18.26	
Suppleme	Supplementary information: N/A								





000 End of test report **000**