

Wireless Router

ICR-17xx

TEST Report No: PO-2025-41

TLP:GREEN

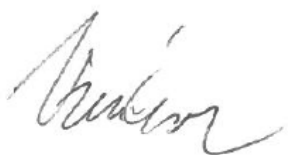
According to:

ETSI EN 301 489-1 V2.2.3

IEC 61000-6-2:2016

IEC 61000-6-3:2020

EN 55032:2015



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ADVANTECH

Document Revision Table		
Revision	Changes	Made by
20251205	First edition	M.Vaníček
20260219	Added EUT B	M.Vaníček

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1. Tests overview

Test cases	Port	Standard	Link
ESD	Enclosure	EN 61000-4-2	link
Radiated, radio-frequency, electromagnetic field	Enclosure	EN IEC 61000-4-3	link
Electrical fast transient/burst	DC port	EN 61000-4-4	link
Surge	DC port	EN 61000-4-5	link
Immunity to conducted disturbances, induced by radio-frequency fields	DC port	EN 61000-4-6	link
Electrical fast transient/burst	ETH ports	EN 61000-4-4	link
Surge	ETH ports	EN 61000-4-5	link
Immunity to conducted disturbances, induced by radio-frequency fields	ETH ports	EN 61000-4-6	link
Electrical fast transient/burst	Serial Ports	EN 61000-4-4	link
Surge	RS485 port	EN 61000-4-5	link
Immunity to conducted disturbances, induced by radio-frequency fields	Serial ports	EN 61000-4-6	link
Electrical fast transient/burst	I/O port	EN 61000-4-4	link
Immunity to conducted disturbances, induced by radio-frequency fields	I/O ports	EN 61000-4-6	link
Electrical fast transient/burst	AC/DC adapter	EN 61000-4-4	Not tested ²⁾
Surge	AC/DC adapter	EN 61000-4-5	Not tested ²⁾
Immunity to conducted disturbances, induced by radio-frequency fields	AC/DC adapter	EN 61000-4-6	Not tested ²⁾
Voltage dips, short interruptions and voltage variations	AC/DC adapter	EN IEC 61000-4-11	Not tested ²⁾

Table 1: Summary of immunity tests

Test cases	Port	Standard	Link
Radiated emission	Enclosure	EN 55032	link
Conducted emission	DC port	EN 55032	link
Conducted emission	Ethernet port	EN 55032	link
Conducted emission	Serial ports	EN 55032	link
Conducted emission	AC/DC adapter	EN 55032	Not tested ²⁾

Table 2: Summary of emission tests

Comment:

- 1) There are no magnetic field sensitive parts in the device.
- 2) Adapter was not specified in the time of testing

2. Administrative data

Manufacturer:	Advantech Czech s.r.o., Sokolská 71, 562 04 Ústí nad Orlicí, Czech Republic
Production site:	Advantech Czech s.r.o., Sokolská 71, 562 04 Ústí nad Orlicí, Czech Republic
Responsible for test report:	Martin Vaníček
Author for test report:	Martin Vaníček
Location of testing 1:	Eurosignal, a.s., Mstětice 34, Czech Republic
Responsible for testing laboratory:	Ing. Martin Otradovec – Eurosignal, a.s. Martin Vaníček – Advantech Czech s.r.o.
Accreditation:	Eurosignal, a.s. - nr. 79/2021
Date(s) of test:	EUT A: 28th November – 1st December 2025 EUT B: 10th February 2026
Date of report:	05th December 2025

3. Equipment under test

3.1 Description of EUT A

EUT A	Type	ICR-17xx	
	Model	ICR-1745Z-XXXXXXX, Where -XXXXXXX cover user configuration = place hold alpha-numeric characters: A-Z, 0-9, "-", and/or blank, Where Z can be W or G	
	Model in test	ICR-1745W	
	HW revision, sn	<u>Board:</u> ICR-1745-EU Rev. A1, sn: 96991745200, 19A9R174520-01, AKS0255726 <u>WiFi:</u> Quectel FC64E, sn:-, <u>Celluar:</u> RG650V-EU Module IMEI: 869876060379099	
	SW revision	ICR-1745x 6.5.4 (2025-07-22)	
Typical use:	☒ Fixed use ☐ Vehicular use		
Place of use	☒ Home use ☒ Industrial environmental, comercial and light industry ☐ Vehicular use		
Highest internal frequency generated by EUT	☐ less than 108 MHz ☐ between 108 MHz and 500 MHz ☐ between 500 MHz and 1 GHz ☒ more than 1 GHz		
Power line:	☐ AC	Range: -	
	☒ DC	Range: 9 V – 48 V	
EUT-grounding	☐ none ☒ with power supply ☒ additional: Screw		
Other ports			
Description	Connector	Possible total length	Shielding
1. DC power/	2 pin	☐ <3 m ☐ >3 m ☒ other: PWR>3 m I/O ports <3 m	☐ screened ☒ unscreened
2. Ethernet ports	4x RJ45	☐ <3 m ☒ >3 m ☐ other:	☒ screened ☒ unscreened
3. RS232/RS485 and I/O ports	10 pin	☐ <3 m ☐ >3 m ☒ other: <30 m	☐ screened ☒ unscreened
4. ANT ports	4x SMA	☒ <3 m ☐ >3 m ☐ other:	☒ screened ☐ unscreened
5. WiFi port	2x RSMA	☒ <3 m ☐ >3 m ☐ other:	☒ screened ☐ unscreened

Table 3: Description of EUT A

3.2 Description of EUT B

EUT B	Type	ICR-17xx	
	Model	ICR-1745Z-XXXXXXX, Where -XXXXXXX cover user configuration = place hold alpha-numeric characters: A-Z, 0-9, "-", and/or blank, Where Z can be W or G	
	Model in test	ICR-1745W	
	HW revision, sn	<u>Board:</u> ICR-1745-EU Rev. A1, sn: 96991745200, 19A9R174521-01, AKKE08244 <u>WiFi:</u> Quectel FC64E, sn: MPN251S1N000468, <u>Celluar:</u> RG650V-EU SN: P1Y25H228000069 Module IMEI: 869876061026491	
	SW revision	ICR-1745x, 1.4.6-alpha (2026-02-06, commit 0c3c0db-dirty)	
Typical use:	☒ Fixed use ☐ Vehicular use		
Place of use	☒ Home use ☒ Industrial environmental, comercial and light industry ☐ Vehicular use		
Highest internal frequency generated by EUT	☐ less than 108 MHz ☐ between 108 MHz and 500 MHz ☐ between 500 MHz and 1 GHz ☒ more than 1 GHz		
Power line:	☐ AC	Range: -	
	☒ DC	Range: 9 V – 48 V	
EUT-grounding	☐ none ☒ with power supply ☒ additional: Screw		
Other ports			
Description	Connector	Possible total length	Shielding
1. DC power/	2 pin	☐ <3 m ☐ >3 m ☒ other: PWR>3 m I/O ports <3 m	☐ screened ☒ unscreened
2. Ethernet ports	4x RJ45	☐ <3 m ☒ >3 m ☐ other:	☒ screened ☒ unscreened
3. RS232/RS485 and I/O ports	10 pin	☐ <3 m ☐ >3 m ☒ other: <30 m	☐ screened ☒ unscreened
4. ANT ports	4x SMA	☒ <3 m ☐ >3 m ☐ other:	☒ screened ☐ unscreened
5. WiFi port	2x RSMA	☒ <3 m ☐ >3 m ☐ other:	☒ screened ☐ unscreened

Table 4: Description of EUT B

Auxiliary Equipment (AE)

AE	Auxiliary Equipment	SN	HW status	SW status
AE51	Smartflex	---	---	---
AE52	Smartflex	---	---	---
AE54	Smartflex	---	---	---
AE50	Smartflex	---	---	---

Table 5: List of Auxiliary Equipments

3.3 EUT set-ups

EUT set-up	Combination of EUT and AE	Remarks
EUT A set1	EUT AE58 + AE51 + AE50 + AE52 + AE54	

Table 6: List of EUT set-up

3.4 EUT operating modes

3.4.1 EUT operating modes

EUT operating mode	Description of operating mode	Additional information
OM 1	Cellular connected to LTE + ping, ping on the ETH, ping on WiFi, sittool 9600 8N1 (RS232, RS485)	Router is connected to mobile operator (T-mobile or Vodafone)

Table 7: List of EUTs operating modes

3.5 Functional criterion

Criterion	During test	After test
A	The device shall continue to operate as intended. No restart of the device, wireless modules or some peripheral. Temporary degradation of the transmission speed is allowed Examples: some packets have to be resend during the TCP/IP communication (ethernet, cellular, WiFi).	The Device shall continue to operate as intended.
B	Degradation of performance accepted No change of operating mode. No restart of the whole device. Each peripheral can be restarted. Examples: restart of the cellular module, loss of data or uncorrected errors in communication, unintentional state changes of digital I/O which are seen by the system or test set-up. No irreversible loss of stored data.	The device shall continue to operate as intended. Temporary degradation of performance must be self-recoverable.
C	Loss of functions accepted, but no destruction of hardware or software (programme or data).	The device shall continue to operate as intended automatically, after manual restart or power off/power on.

Table 8: Functional criterion

4. Test records

4.1 Radiated emission test

4.1.1 Radiated emission: Measurements, limits and results

Standard	EN 55032:2015		
Test specification	Radiated emission		
Frequency range	30 MHz – 1000 MHz 1 GHz – 6 GHz		
Test site	EMC semi-anechoic chamber		
Measuring distance	3m (distance between Antenna Reference Point and EUT front panel)		
EUT orientation to the antenna	30 – 1000 MHz: 0° - 360 °C(step 45°), height 1 m, 1.5 m, 2 m 1 – 6 GHz: 0° - 360°C(step 30°), height 1 m		
Antenna polarization	Horizontal, Vertical		
EUT set-up	EUT A set 1		
EUT operation mode	OM 1		
Emission test limits for class B from 3m	Frequency range (MHz)	Quasipeaks limits dB (µV/m)	Average limits dB (µV/m)
	30 – 230	40	-
	230 – 1000	47	-
	1000 – 6000	-	54
Results EUT A			
Frequency range	Result of test	Report	
30 MHz to 1000 MHz	PASS	test result	
30 MHz to 1000 MHz + GND	PASS	test result	
1 GHz to 6 GHz	PASS	test result	
1 GHz to 6 GHz + GND	PASS	test result	
Notes			

4.1.2 Radiated emission: Photographs

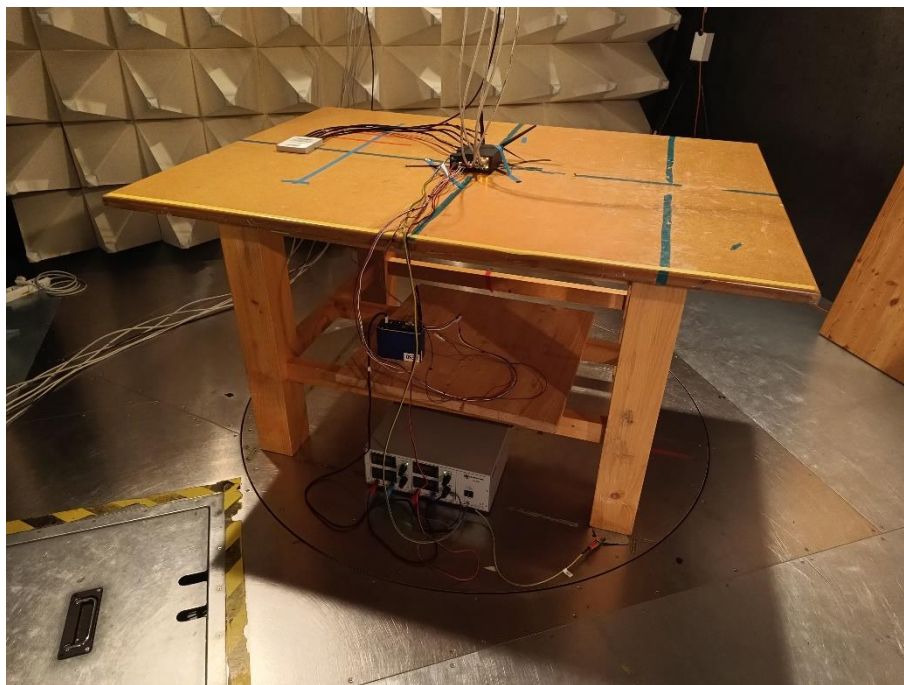


Figure 1: EUT A, in the chamber on table



Figure 2: EUT A, in the chamber on table

4.2 Conducted emission test

4.2.1 Conducted emission: Measurements, limits and results

Standard	EN 55032:2015		
Test specification	Conducted emission		
Frequency range	0,15 MHz – 30 MHz		
Test site	Wood test table (1 m x 2,5 m)		
Ports under test	DC port ETH port SERIAL ports		
Coupling unit (measuring point)	CDN for DC Current and Voltage clamp for ETH Current and Voltage clamp for serial ports		
EUT set-up	DC port: EUT A ETH ports: EUT A set 1 SERIAL ports: EUT A set 1		
EUT operation mode	OM 1		
Conducted test limits telecommunication ports for class B	Frequency range (MHz)	Quasipeaks limits dB (µV)	Average limits dB (µV)
	0,15 – 0,5 0,5 – 30	84 - 74 74	74 - 64 64
Conducted test limits power ports for class B	Frequency range (MHz)	Quasipeaks limits dB (µV)	Average limits dB (µV)
	0,15 – 0,5 0,5 - 5 5 – 30	66 - 56 56 60	56 - 46 46 50
Results EUT A			
Port & conditions	Result of test	Report	
DC port 9 V	PASS	test result	
DC port 9 V + GND	PASS	test result	
DC port 48 V	PASS	test result	
DC port 48 V + GND	PASS	test result	
ETH1 port 24 V, STP + GND	PASS	test result	

ETH1 port 24 V, STP	PASS	test result
ETH0a port 24 V, STP + GND	PASS	test result
ETH0a port 24 V, STP	PASS	test result
ETH0b port 24 V, STP + GND	PASS	test result
ETH0b port 24 V, STP	PASS	test result
ETH0c port 24 V, STP + GND	PASS	test result
ETH0c port 24 V, STP	PASS	test result
ETH0d port 24 V, STP + GND	PASS	test result
ETH0d port 24 V, STP	PASS	test result
RS232+RS485 24 V + GND (I)	PASS	test result
RS232+RS485 24 V + GND (U)	PASS	test result
RS232+RS485 24 V (I)	PASS	test result
RS232+RS485 24 V (U)	PASS	test result
Results EUT B		
RS232+RS485 24 V + GND (I)	PASS	test result
RS232+RS485 24 V + GND (U)	PASS	test result
RS232+RS485 24 V (I)	PASS	test result
RS232+RS485 24 V (U)	PASS	test result

4.2.2 Conducted emission: Photograph



Figure 3: EUT A, conducted emission DC port



Figure 4: EUT A, conducted emission ETH0 port

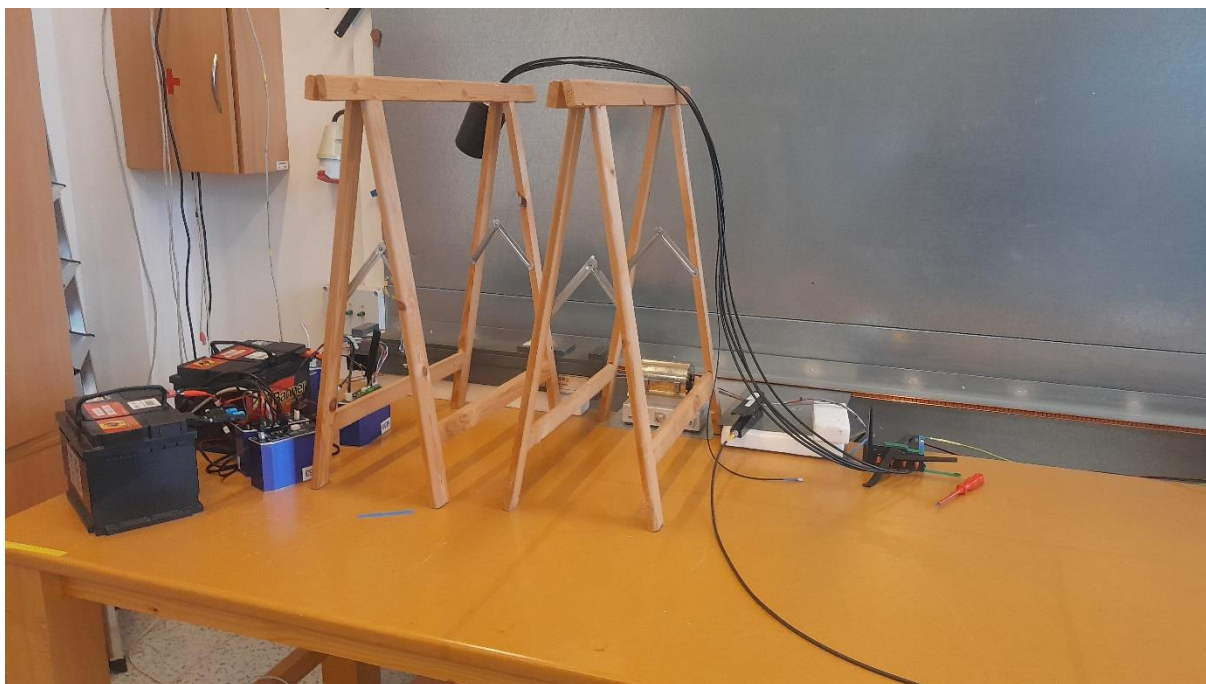


Figure 5: EUT B, conducted emission RS232/RS485 port



Figure 6: EUT B, conducted emission RS232/RS485 port

4.3 ESD test

4.3.1 ESD: Measurement, limits and results

Standard	EN 61000-4-2: 2009	
Test specification	Electrostatic discharge immunity test (Contact)	
Requierevements	Contact discharge ±6 kV	
Test site	Wood test table (0,8 m x 1,6 m) with steel surface standing ON the HGRP	
Test points – Contact	Front ETH, Front screw, Top, Bottom, Back, Left, Right	
EUT set-up	EUT A	
EUT operation mode	OM 1	
Results EUT A		
Conditions	Test result	Requirement EN 61000-6-2
Contact discharge ±6 kV Bottom	A	PASS
Contact discharge ±6 kV Back	A	PASS
Contact discharge ±6 kV Left	A	PASS
Contact discharge ±6 kV Right	A	PASS
Contact discharge ±6 kV Top	A	PASS
Contact discharge ±6 kV Shielding ETH0 connector	A	PASS
Contact discharge ±6 kV SMA connector front	A	PASS
Notes		
Results EUT B		
Contact discharge ±6 kV Bottom	A	PASS
Contact discharge ±6 kV Back	A	PASS
Contact discharge ±6 kV Left	A	PASS

Contact discharge ± 6 kV Right	A	PASS
Contact discharge ± 6 kV Top	A	PASS
Contact discharge ± 6 kV Shielding ETH0 connector	A	PASS
Contact discharge ± 6 kV SMA connector front	A	PASS
Notes		

4.3.2 ESD: Photographs

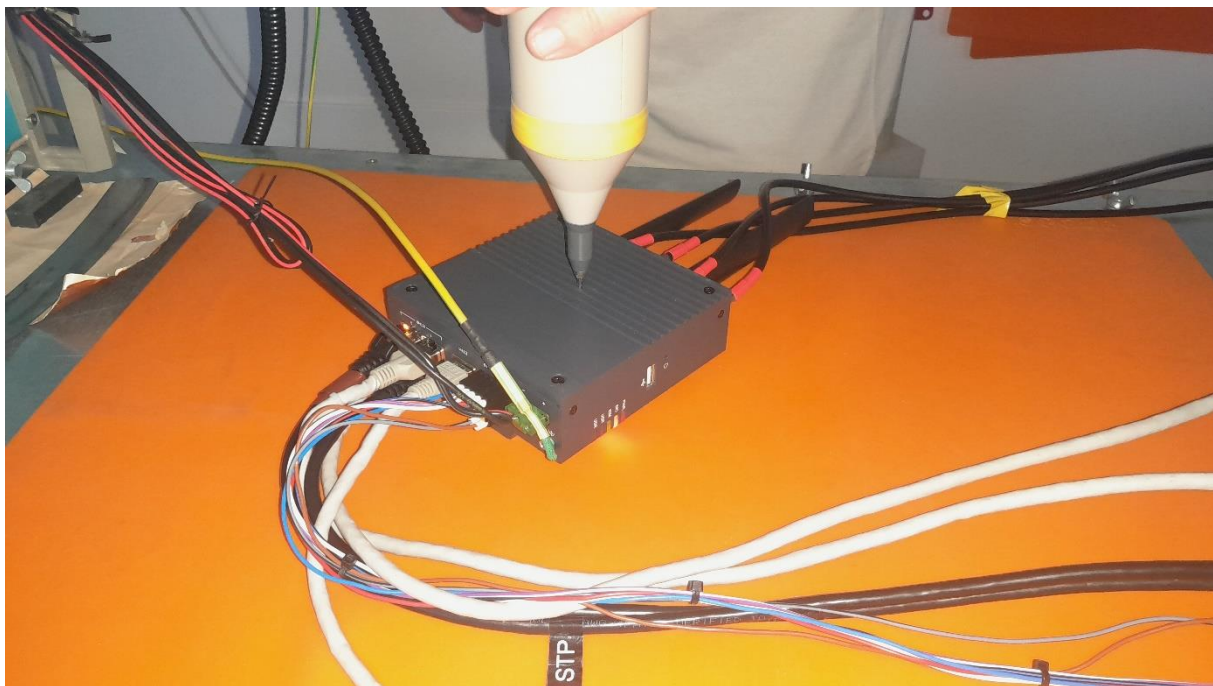


Figure 7: EUT A, ESD bottom

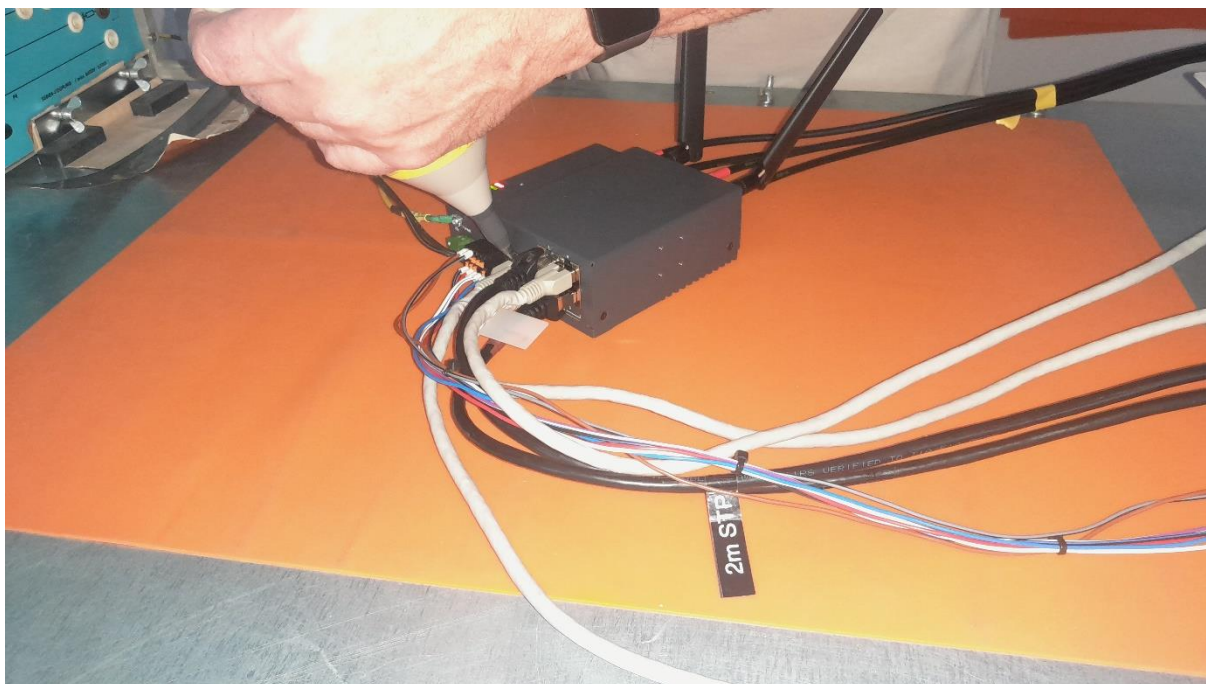


Figure 8: EUT A, ESD ETH port

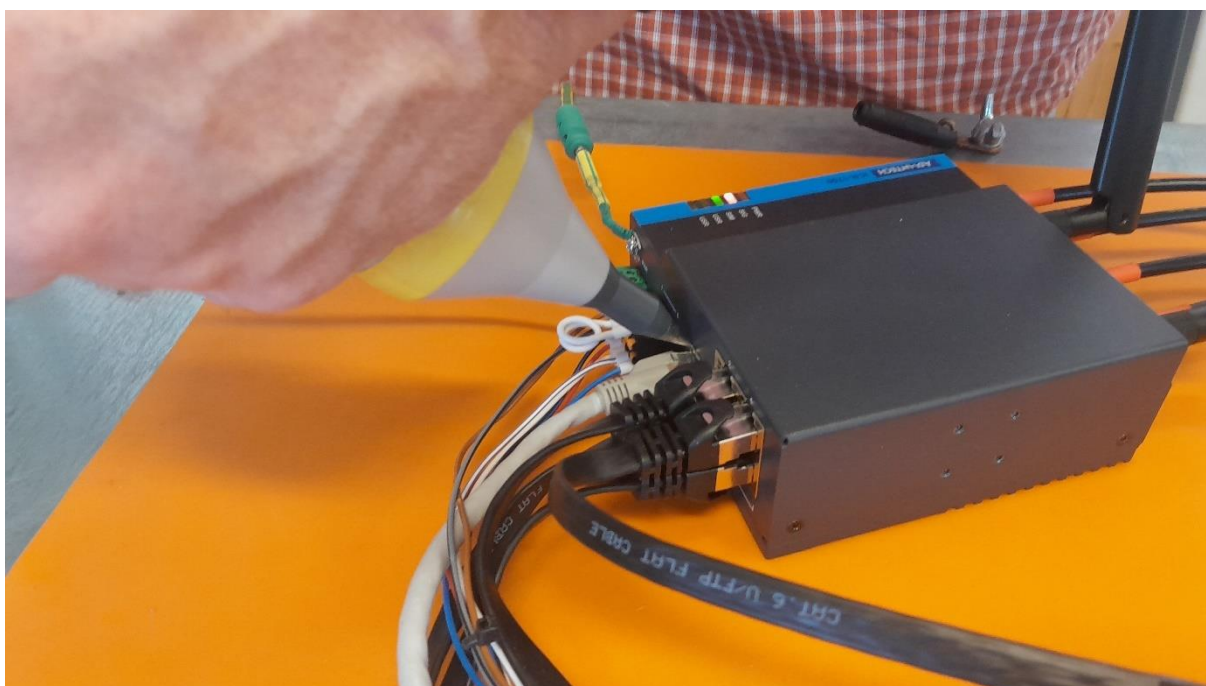


Figure 9: EUT B, Front ETH port

4.4 EFT test

4.4.1 EFT: Measurements, limits and results

Standard	EN 61000-4-4:2012		
Test specification	Electrical fast transient/burst immunity test		
Tested interfaces	DC port – port on the generator ETH ports – clamp SERIAL ports – clamp I/O port – clamp		
Pulses	±1 kV, ±2 kV, 5/50 Tr/Th ns, 5 kHz, 100 kHz Duration 1 minutes each polarity		
Test site	Wood test table (0,8 m x 3 m) with steel surface		
EUT set-up	DC port: EUT A set 1 ETH ports with shielded cable: EUT A set 1 SERIAL ports: EUT A set 1 I/O port: EUT A set 1		
EUT operation mode	OM 1		
Results EUT A			
Conditions		Test result	Requirement EN 61000-6-2
DC port ±2 kV, 5 kHz (PWR 9 V)		A	PASS
DC port ±2 kV, 5 kHz (PWR 48 V)		A	PASS
DC port ±2 kV, 100 kHz (PWR 9 V)		A	PASS
DC port ±2 kV, 100 kHz (PWR 48 V)		A	PASS
ETH0(a,b,c,d) port ±1 kV, 5 kHz (PWR 24 V)		A	PASS
ETH0(a,b,c,d) port ±1 kV, 100 kHz (PWR 24 V)		A	PASS
ETH1 port ±1 kV, 5 kHz (PWR 24 V)		A	PASS
ETH1 port ±1 kV, 100 kHz (PWR 24 V)		A	PASS
RS232 port ±1 kV, 100 kHz (PWR 24 V)		A	PASS
RS485 port ±1 kV, 100 kHz (PWR 24 V)		A	PASS
Notes:		ETH0(a,b,c,d) each port tested separately	
Results EUT B			
RS232 port ±1 kV, 100 kHz (PWR 24 V)		A	PASS
RS485 port ±1 kV, 100 kHz (PWR 24 V)		A	PASS

4.4.2 EFT: Photographs

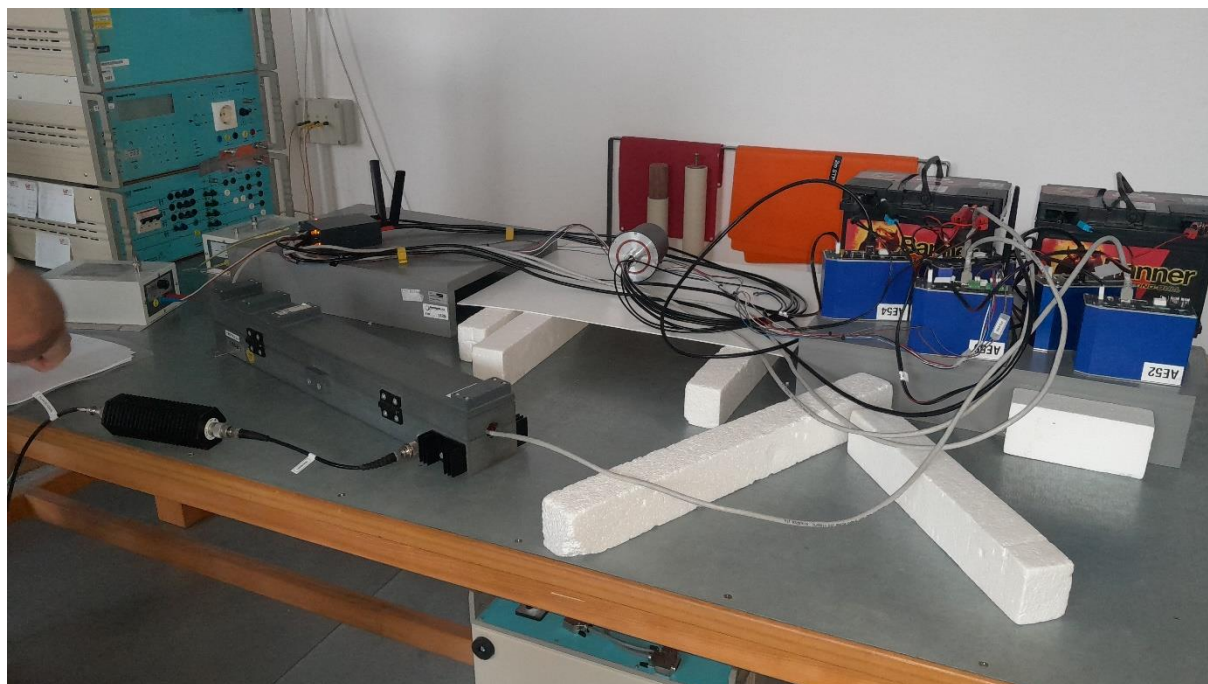


Figure 10: EUT A, EFT ETH1 port



Figure 11: EUT A, EFT RS232+RS485 port



Figure 12: EUT B, EFT RS232+RS485 port

4.5 Surge test

4.5.1 Surge: Measurements, limits and results

Standard	EN 61000-4-5 ed.3		
Test specification	Surge immunity test		
Tested interfaces	DC port – port on the generator ETH port – direct application		
Pulses	±0,5 kV, ±1 kV 1.2/50 (8/20) Tr/Td µs, 5 kHz 5 pulses / 30 second in each polarity		
Test site	Wood test table (0,8 m x 3 m) with steel surface		
EUT set-up	DC port: EUT A set 1 ETH port – EUT A set 1		
EUT operation mode	OM 1		
Results EUT A			
Conditions	Test result	Requirement EN 61000-6-2	Statistics
DC port ±0,5 kV, 2 Ω, (PWR 9 V)	A	PASS	test result
DC port ±0,5 kV, 2 Ω, (PWR 48 V)	A	PASS	test result
DC port ±1 kV, 12 Ω, (PWR 9 V)	A	PASS	test result
DC port ±1 kV, 12 Ω, (PWR 48 V)	A	PASS	test result
ETH0 port ±0,5 kV, (PWR 24 V)	A	PASS	test result
ETH1 port ±0,5 kV, (PWR 24 V)	A	PASS	test result
ETH0 port ±1 kV, (PWR 24 V)	A	PASS	test result
ETH1 port ±1 kV, (PWR 24 V)	A	PASS	test result
RS485 port ±0,5 kV, (PWR 24 V)	A	PASS	test result
RS485 port ±1 kV, (PWR 24 V)	A	PASS	test result
Notes			

Results EUT B			
RS485 port $\pm 0,5$ kV, (PWR 24 V)	A	PASS	test result
RS485 port ± 1 kV, (PWR 24 V)	A	PASS	test result

4.5.2 Surge: Photographs

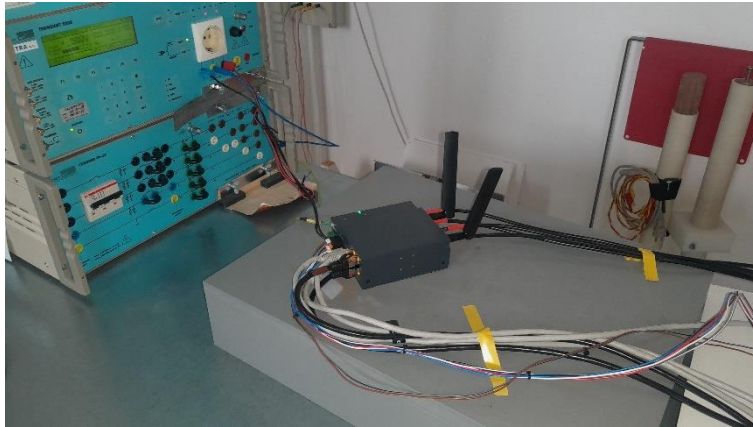


Figure 13: EUT A, DC port

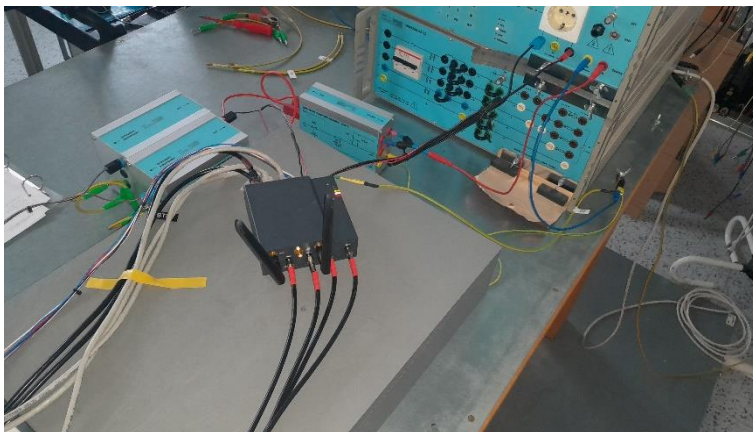


Figure 14: EUT A, RS485 port

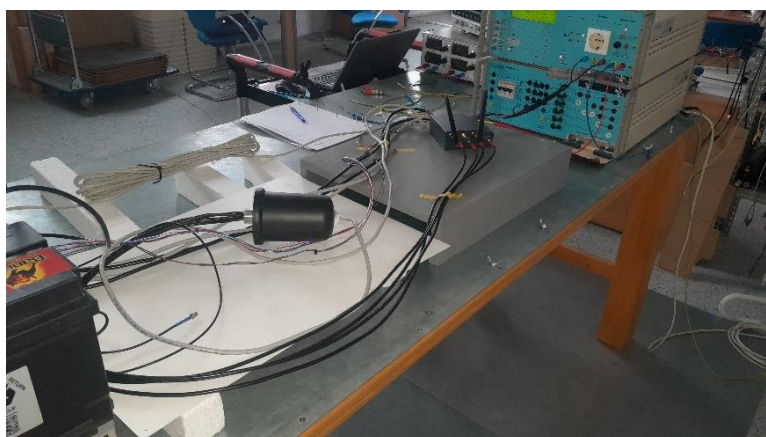


Figure 15: EUT A ETH0 port

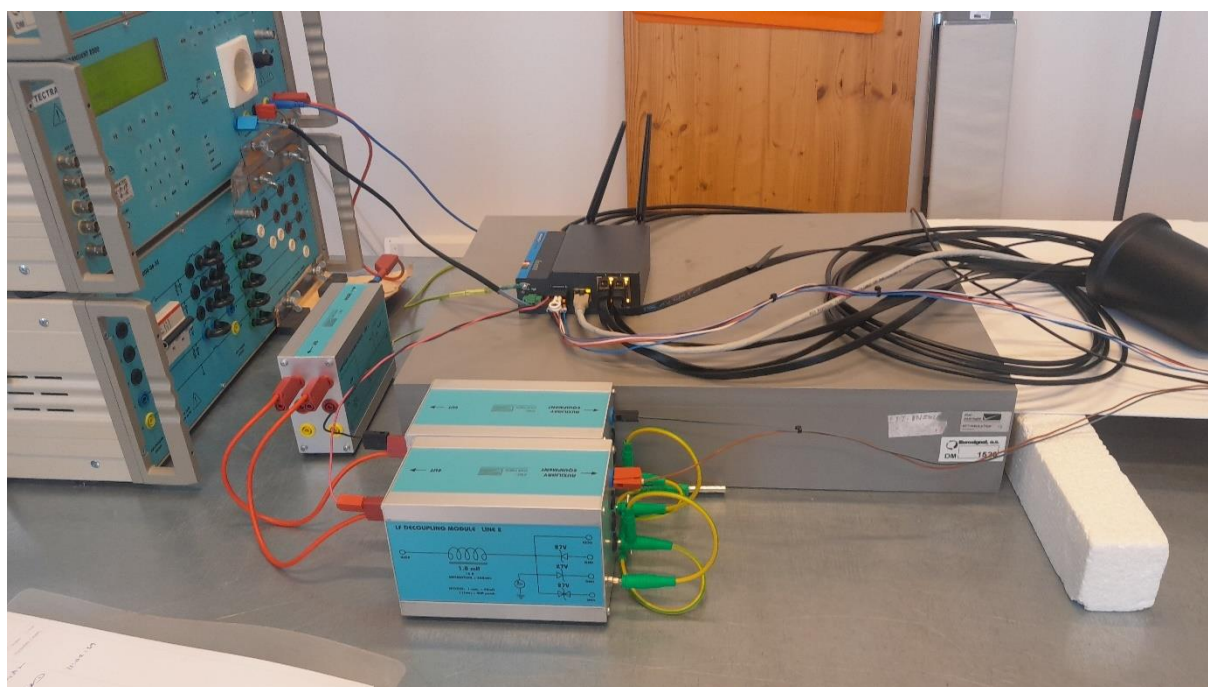


Figure 16: EUT B, RS485 port

4.6 Immunity to conducted disturbances test

4.6.1 Immunity to conducted disturbances: Measurement, limits and results

Standard	EN 61000-4-6 :2014		
Test specification	Immunity to conducted disturbances, induced by radio-frequency fields		
Tested interfaces	DC port - CDN ETH ports – clamping unit I/O ports – clamping unit		
Test signal	0,15 to 80 MHz, 10V, 80% AM(1kHz)		
Test site	Wood test table (1m x 2,5m) with steel surface		
EUT set-up	DC port: EUT A set 1		
EUT operation mode	OM 1		
Results EUT A			
Conditions	Test result	Requirement EN 61000-6-2	Statistics
DC port + GND (PWR 9 V)	A	PASS	test result
DC port + GND (PWR 48 V)	A	PASS	test result
ETH1 port + GND, STP, (PWR 24 V)	A	PASS	test result
ETH0a port + GND, STP, (PWR 24 V)	A	PASS	test result
ETH0b port + GND, STP, (PWR 24 V)	A	PASS	test result
ETH0c port + GND, STP, (PWR 24 V)	A	PASS	test result
ETH0d port + GND, STP, (PWR 24 V)	A	PASS	test result
RS485+RS285 port + GND (PWR 24 V)	A	PASS	test result
Notes*			
Results EUT B			
RS485+RS285 port + GND (PWR 24 V)	A	PASS	test result

4.6.2 Immunity to conducted disturbances: Photographs



Figure 17: EUT A, Immunity to conducted disturbances measurement – ETH1 port

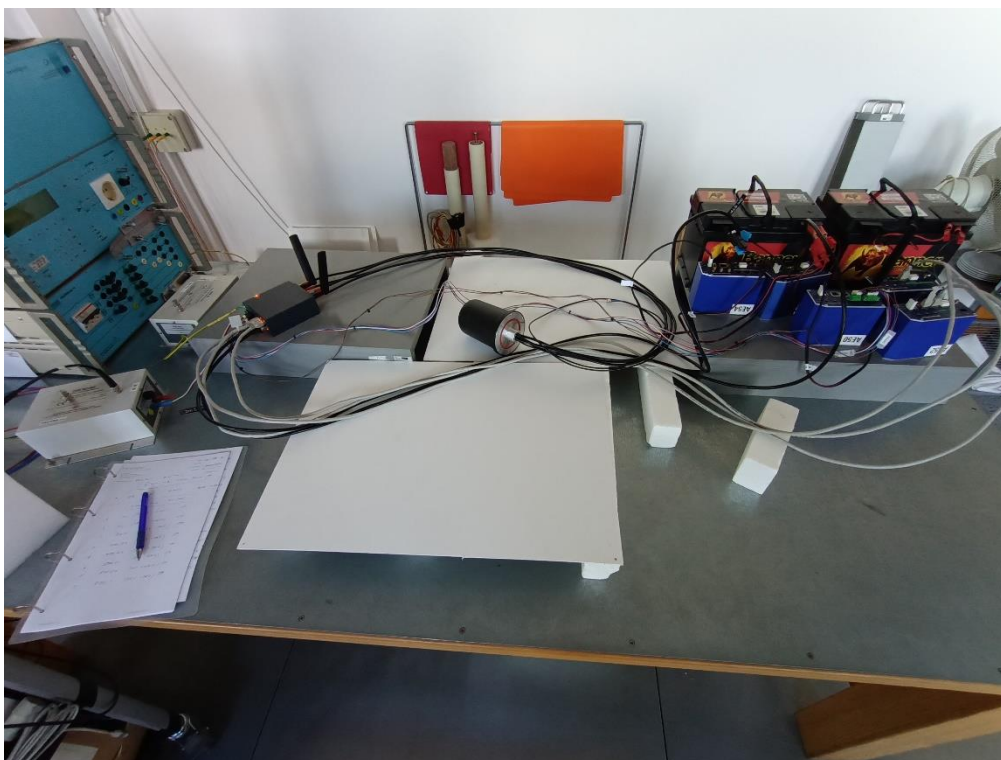


Figure 18: EUT A, Immunity to conducted disturbances measurement – DC port

4.7 Radiated, radio-frequency, electromagnetic field test

4.7.1 Radiated, RF, electromagnetic field: Measurement, limits and results

Standard	EN IEC 61000-4-3:2020	
Test specification	Radiated, radio-frequency, electromagnetic field immunity test	
Requierements	80 MHz to 1000 MHz	20 V/m 80% AM(1 kHz)
	1 GHz to 6 GHz	10 V/m 80% AM(1 kHz)
Test site	EMC semi-anechoic chamber	
EUT set-up	EUT A set 1	
EUT operation mode	OM 1	
Results EUT A		
Conditions	Test result	Requirement EN 61000-6-2
Front	A	PASS
Back	A	PASS
Left side	A	PASS
Right side	A	PASS
Top	A	PASS
Bottom	A	PASS
Notes		

4.7.2 Radiated, radio-frequency, electromagnetic field: Photographs

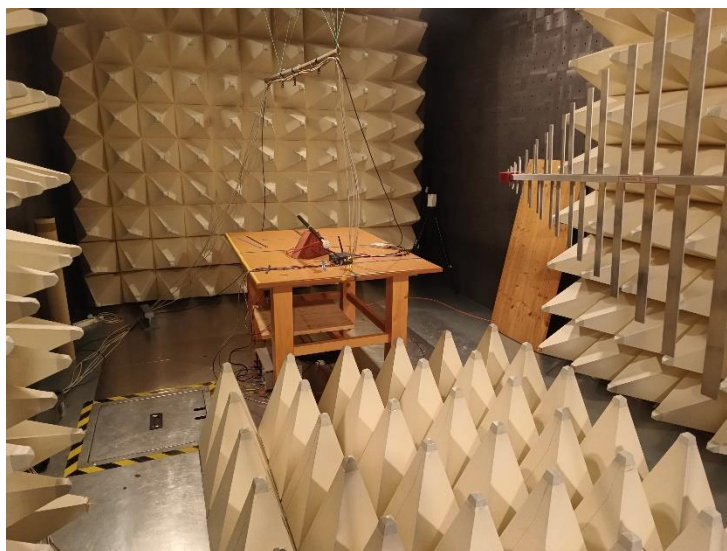


Figure 19: EUT A, Radiated, radio-frequency, electromagnetic field 80 MHz - 1 GHz, front

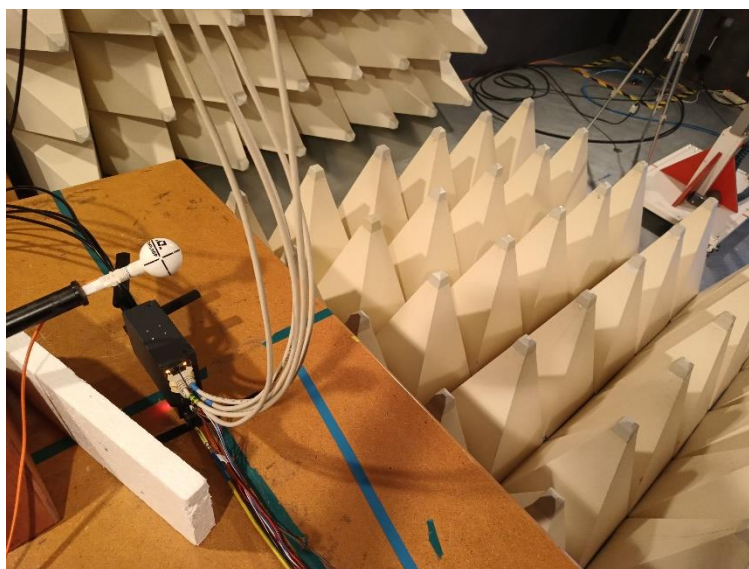


Figure 20: EUT A, Radiated, radio-frequency, electromagnetic field 80 MHz - 1 GHz, bottom

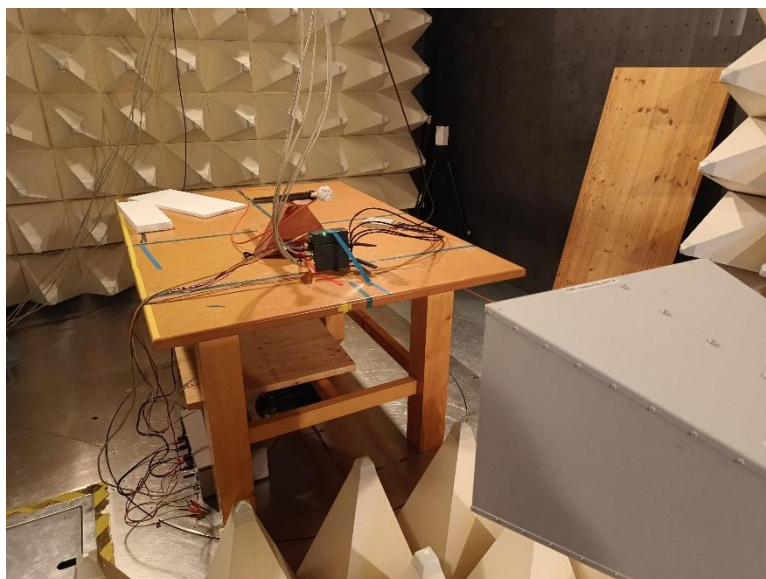


Figure 21: EUT A, Radiated, radio-frequency, electromagnetic field 1 GHz - 6 GHz, Top

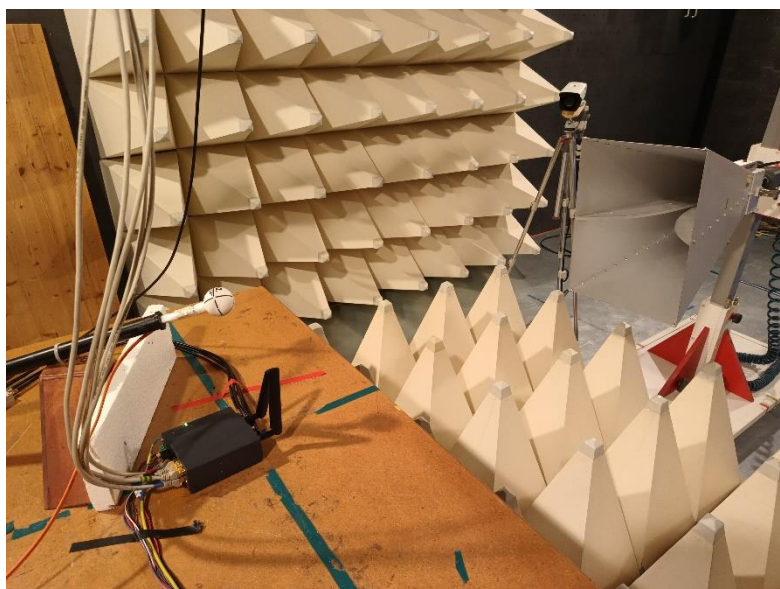


Figure 22: EUT A, Radiated, radio-frequency, electromagnetic field 1 GHz - 6 GHz, back

5. Instruments and Ancillary

Ident.No	Description	Type	Manufacturer	Serial No.
DM1444	EMC semi-anechoic chamber	CHC	Frankonia	---
DM1457	Antenna	BTA-M	Frankonia	07002
DM1461	Antenna	BBHA 9120 E	Frankonia	BBHA 9120 E384
	Antenna	VULB 9162	Shwarzbeck	
DM1419	Test receiver	ESCI	Rohde & Schwarz	1166.5950K03 Ser.100751
DM1547	Test receiver	ESR 7	Rohde & Schwarz	1316.3003K07- 101730-Ah
DM1538	Test software	EMC32 v.06.20.1	Rohde & Schwarz	1501.9590.02 Ser.100356
DM1402	Artificial-mains network	ESH2-Z5	Tectra a.s.	Ser.100210
DM1405	DC power source 2x 0V-30V	Typ 2225	Statron	---
DM1406	DC power source 2x 0V-30V	Typ 2225	Statron	0801019
DM1463	KEMZ clamp	KEMZ 801	TESEQ	Ser.25466
DM1469	Coupling/decoupling network	CDN M2+M3	Frankonia	A3027004
DM1531	Coupling/decoupling network	CDN M2+M3	Frankonia	A2210254 / 2014
DM1468	Coupling/decoupling network	CDN RJ45	Frankonia	A3023017
DM1562	Capacitive Voltage Proge	CVP 9222B	Schwarzbeck	01038
DM1561	Currant Probe	SW 9605	Schwarzbeck	#166
DM1458	EFT bank	CN-EFT1000	EMC-Partner	Ser.586
DM1421	Imunity tester	TRA2000-IN-4	EMC-Partner	Ser.989
DM1452	Aplifier	FLG-30F	Frankonia	s.n.:1016
DM1423	Aplifier	FLH-200B	Frankonia	1061
DM1422	Aplifier	FLG-30D	Frankonia	1058
DM1568	Test software	Prove EMC, v. 2.0.0.8	Frankonia	---
DM1538	Test software	EMC32 v 10.1	Rohde & Schwarz	1501.9590.02 Ser. 100356
DM1566	EM field probe	EFS-laser	Frankonia	0134
DM1425	Switch unit	RSU_1233	Frankonia	s.n.:113B1261/2016

Table 9: List of instruments in Eurosignal