Test report for 47 CFR Part 15 Subpart B, ICES-003

Product :	The MV cable condition monitor brand DNV
Model:	SCG3
Applicant:	DNV Netherlands B.V.
Test Report number:	P000400482 001 v1.0
Test Report status:	Final
Test Report date:	2025 July, 22
Pages :	1-23

This report is issued by Kiwa Nederland B.V, Wilmersdorf 50 ,7327AC Apeldoorn, Netherlands.
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The RvA is signatory to ILAC - MRA

Examining Engineer:	Approved and released by:
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Laboratory information

Accreditation

Kiwa Nederland B.V. complies with the accreditation criteria for test laboratories as laid down in ISO/IEC 17025:2017. The accreditation covers the quality system of the laboratory as well as the specific activities as described in the authorized annex bearing the accreditation number L015 and is granted by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

Kiwa Nederland B.V. is designated by the FCC as an Accredited Test Firm for compliance testing of equipment subject to Certification under Parts 15 & 18. The Designation number is: NL0001.

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Kiwa Nederland B.V. is a registered Conformity Assessment body (CAB) under the Japan-EC MRA (Agreement on Mutual Recognition between Japan and the European Community). The registration number is: 201.

Testing Location

Test Site	Kiwa Nederland B.V.
Test Site location	Wilmersdorf 50 7327 AC Apeldoorn The Netherlands Tel. +31 88998 3393
Test Site FCC	NL0001
CABID	NL0001

Conclusion:

The MV cable condition monitor, brand DNV, type SCG3 meets the requirements of:

- ANSI C63.4:2014

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart B
- ICES-003 Issue 7

Variants appliance types covered by this report:

Based on the test results laid down in this report and the information delivered to KIWA by the manufacturer, the following appliance is considered equivalent concerning their EMC characteristics.

Equivalent to the MV cable condition monitor, brand DNV, type SCG3 : None.

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Version	Date	Remarks	By
1	27-06-2025	Original test report	LdG
2	17-07-2025	Incorporated client comments	LdG

FCC	ISED	Test summary	Result
15.109 (a)	ICES-003 Table 2	Radiated spurious emissions < 1GHz	Pass
15.109 (a)	ICES-003 Table 4	Radiated spurious emissions > 1GHz	Pass
15.107 (c)	ICES-003 Table 1	AC power-line conducted emissions	Pass

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Table of Contents

1 General Description

1.1 Applicant

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E-mail:	Paul.wagenaars@dnv.com
Contact name:	Paul Wagenaars

1.2 Manufacturer

Manufacturer name:	Neways Technologies B.V.
Address:	Science Park Eindhoven 5525, 5692 EM Son, The Netherlands
Telephone:	+316 25 451 626 / +316 44 396 436
E-mail:	Arjan.ter.huerne@newayselectronics.com
Contact name:	Arjan ter Huerne / Bastiaan Scherphof

1.3 Tested Equipment Under Test (EUT)

Product name:	SCG3
Brand name:	DNV
Product description:	MV cable condition monitor
EUT dimensions:	FP (Field processor): 368.5 x 170 x 86 SM (Signal monitor): 184 x 94 x 40 CS (Cable sensor): 169.7 x 127.2 x 65.8
Batch and/or serial No.:	FP: 9.1.66 SM: 9.1.144, 9.1.140, 9.1.143 CS: 9.1.172, 9.1.173, 9.1.170
Software version:	0.9.3
Hardware version:	FP: 1127300F SM: 1127301 E CS: 1127302B
Date of receipt:	10-04-2025
Test period:	10-04-2026 – 20-06-2025

1.4 Product specifications of Equipment under test

TX Frequency range (MHz)	B2, B4, B5, B26, B66
RX frequency range (MHz)	B2, B4, B5, B26, B66
Maximum output power (dBm)	23
Antenna type	TE - 955 006-002
Antenna gain (dBi)	3
Type of modulation	According to LTE specification

Disclaimer: above info is declared by the applicant .

1.5 Measurement standards

- ANSI C63.4:2014

1.6 Applicable standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart B
- ICES-003 Issue 7
- ICES-Gen Issue 2

1.7 EUT connections

Number	Function	Max length	Remarks
1	FP : PE	3	-
2	FP : AC Mains input	5	-
3	FP : DC input	2	-
4	FP : LTE Antenna	2,5	-
5	FP : Ethernet	30	-
6	FP-SM : IO (DC+Ethernet+IO)	10	-
7	SM : PE	3	-
8	SM-CS : IO (Analog signals)	3	-
9	CS : Functional earth	3	-

1.8 Observation and remarks

To test the functionality of the EUT a test cable is connected to the EUT.

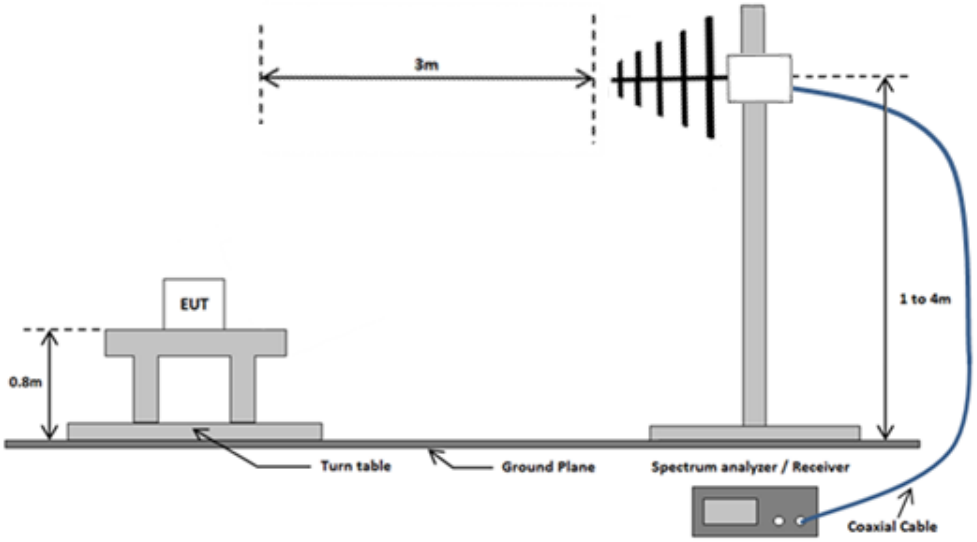
2.Test configuration of the Equipment Under Test

2.1 Test mode

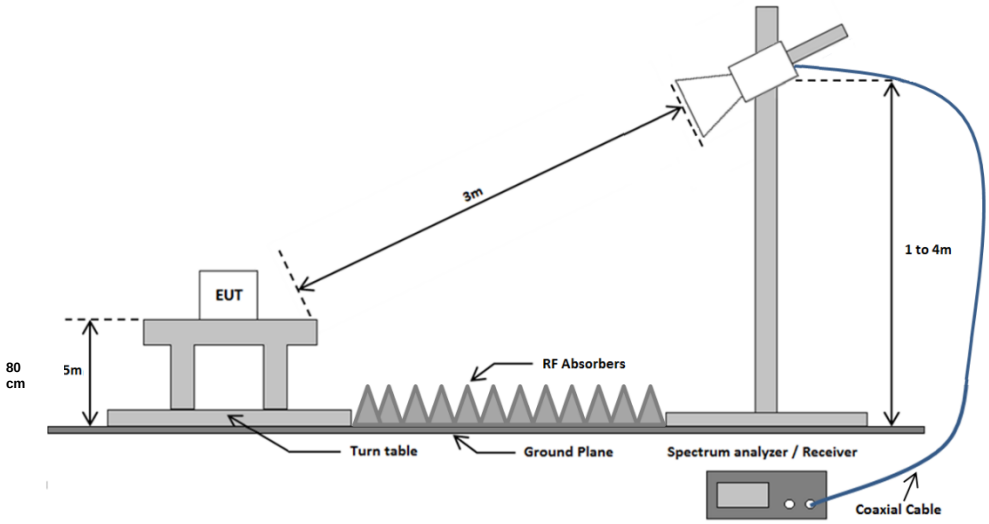
The EUT is tested in normal operating mode.
During the test the proper functioning of the EUT was monitored by software provided by the customer. This was done by reading the output of the EUT through ethernet to an optical connection outside of the anechoic chamber.
Proper funtctionality consists of the EUT maintaining a LTE connection, and correctely reading out the sensors.

2.2 Test setups

2.2.1 Radiated emissions test setup 30 MHz - 1 GHz

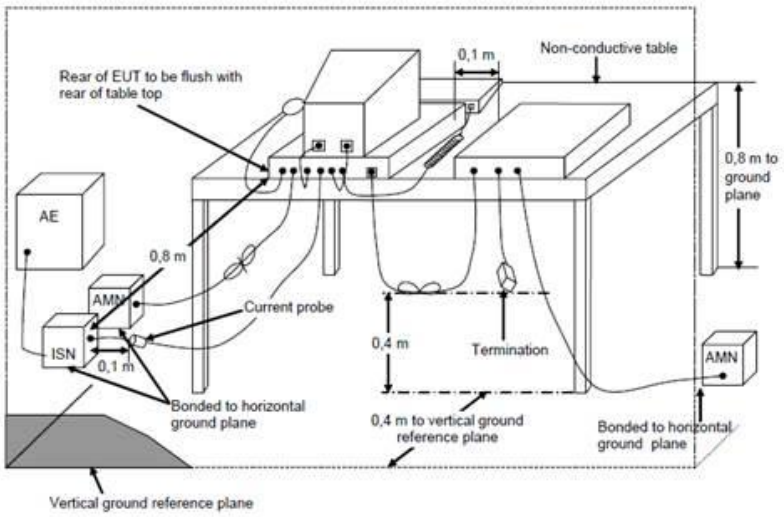


2.2.2 Radiated emissions test setup above 1 GHz



2.2.3 AC Power line conducted emissions test setup

Emissions test at AC mains



2.3 Test methodology.

The test methodology used is based on the requirements of 47 CFR Part 15, sections 15.31, 15.107 and 15.109, ICES-003 and ICES-Gen. The test methods, which have been used, are based on ANSI C63.4-2014.

2.4 Equipment modifications.

No modifications have been made to the equipment.

2.5 Equipment used in the test configuration

Description	Manufacturer	Model	ID	Cal. Done date	Cal. due date	Used at Par.
Spectrum Analyzer	Rohde & Schwarz	FSV3044	114923	10-2023	10-2025	3.1
EMI test receiver	Rohde & Schwarz	EPL1000	115435	12-2024	12-2025	3.2
Biconical antenna + 6dB attenuator	Schwarzbeck + HP	VHA9103 + 8491A	114436	07-2024	07-2027	3.1
Logperiodic antenna	EMCO	3147	114385	02-2021	02-2026	3.1
Horn antenna	EMCO	3115	114607	01-2025	01-2028	3.1
Preamplifier 1-18 GHz	µComp Nordic	MCNA-40-0010800-25-10P	114771	08-2024	08-2025	3.1
Semi-Anechoic Chamber	ETS Lindgren	SAR	114624	03-2023	03-2026	3.1
Test software	Raditeq	Radimation Version 2023.2.3	--	--	--	3.1, 3.2
LISN /Two line V-network	Rohde & Schwarz	ENV 216	114379	11-2023	11-2025	3.2

Conformance of the used measurement and test equipment with the requirements of ISO/IEC 17025:2017 has been confirmed before testing.

NA= Not Applicable

2.6 Sample calculations

All formulas for data conversions and conversion factors are reported in chapter 4 of this test report.

3.Test results

3.1 Radiated spurious emissions

3.1.1 Limit

Except for Class A digital devices, the field strength of radiated emissions from an unintentional radiator shall not exceed the field strength levels specified in the following tables.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified.

Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. When average radiated emission measurements are specified in this part, there is also a limit on the peak level of the emissions. Unless otherwise specified, the limit on peak emissions is 20 dB above the average limit.

The product under test shall comply with both the average and the peak limits.

ICES-003 Issue 7 section 3.2.2
The quasi-peak limits for the electric component of the radiated field strength emitted from ITE or digital apparatus, within 30 MHz to 1 GHz, for a measurement distance of 3m are presented in table below.

At and above 1 GHz, except for outdoor units of home satellite receiving systems, the ITE or digital apparatus shall comply with the limits specified in table below up to the frequency F_M, which shall be determined. The product under test shall comply with both the average and the peak limits.

FCC 15.109(a)

Frequency (MHz)	Field strength (µV/meter)	Field strength (dBµV/m)	Measurement distance (meters)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

ICES-003 tables 2, 4

Frequency (MHz)	Field strength (µV/meter)	Field strength (dBµV/m)	Measurement distance (meters)
30-88	100	40.0	3
88-216	150	43.5	3
216-230	200	46.0	3
230 -960	224	47.0	3
Above 960	500	54.0	3

3.1.2 Measurement instruments

The measurement instruments are listed in chapter 2.5 of this report.

3.1.3 Test setup

The test setup is as shown in chapter 2.2.1 and 2.2.2 of this report.

3.1.4 Test procedure

30 MHz to 26.5 GHz: According to ANSI C63.4-2014, section 8.3

30 MHz to 1 GHz: IRN 441 – Method 1
1 GHz to 18 GHz: IRN 441 – Method 2
18 to 26.5 GHz: IRN 441– Method 3

In case of handheld and/or body-worn equipment, the EUT's orientation (X, Y, Z) was varied in order to ensure that maximum emission amplitudes were attained. In all other cases the associated cabling and the EUT orientation was varied for maximum emissions.

The spectrum was examined from 30MHz to the highest measurement frequency according to the table below. Final radiated emission measurements were made at 3m distance.

Highest internal frequency (F_X) [i]	Highest measurement frequency (F_M)
$F_X \leq 108$ MHz	1 GHz
108 MHz < $F_X \leq 500$ MHz	2 GHz
500 MHz < $F_X \leq 1$ GHz	5 GHz
$F_X > 1$ GHz	5 x F_X up to a maximum of 40 GHz
i. F_X is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.	

The 6 highest emission amplitudes relative to the appropriate limit were recorded in this report. Field strength values of radiated emissions at frequencies not listed in the tables are more than 20 dB below the applicable limit.

3.1.5 Measurement Uncertainty

Frequency range	Polarization	Uncertainty
30 – 200 MHz	Horizontal	±4.5 dB
	Vertical	±5.4 dB
200 -1000 MHz	Horizontal	±3.6 dB
	Vertical	±4.6 dB
1 – 18 GHz	Horizontal	±5.7 dB
	Vertical	±5.7 dB
18 – 26.5 GHz	Horizontal	±4.9 dB
	Vertical	±4.9 dB

3.1.6 Test results

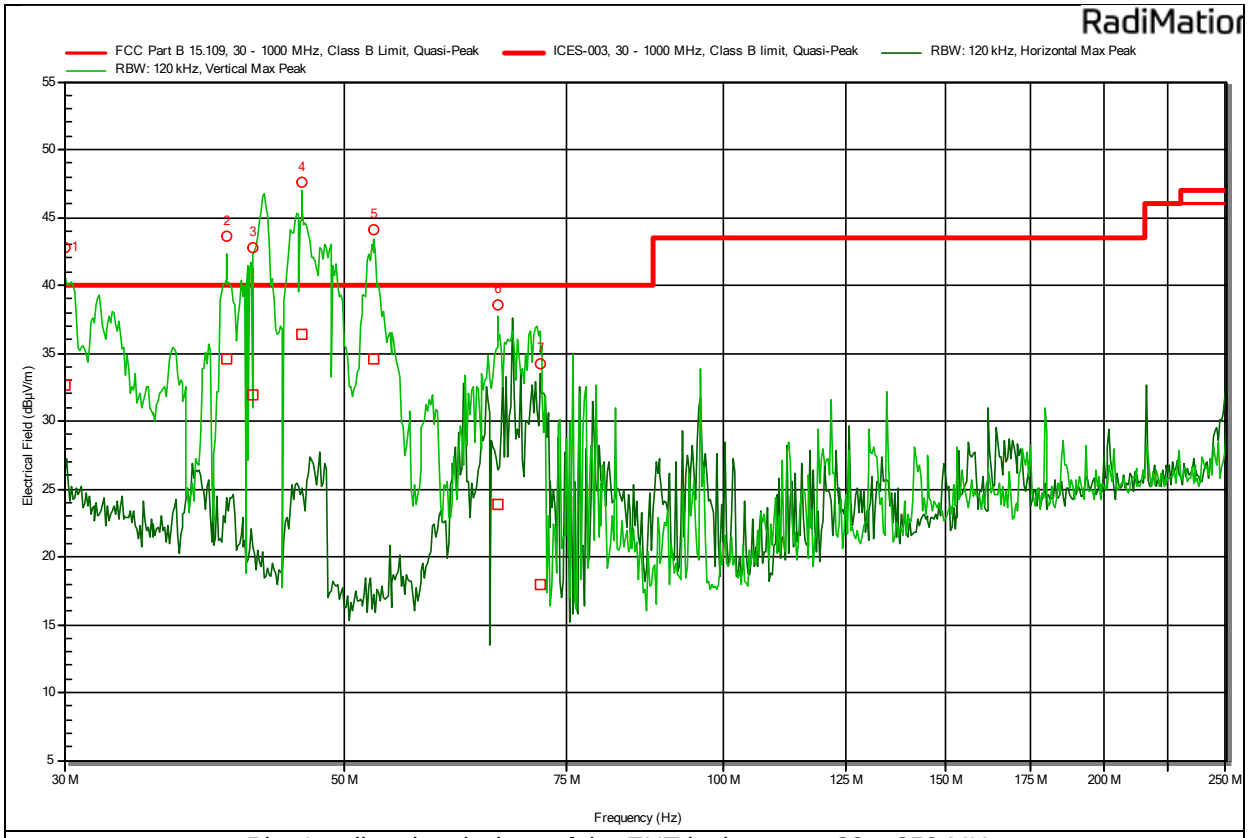
Peak Number	Frequency	Peak	Quasi-Peak Limit (FCC)	Quasi-Peak	Quasi-Peak Difference	Angle	Height	Polarization	Status
1	30,058 MHz	42,8 dBµV/m	40 dBµV/m	32,6 dBµV/m	-7,4 dB	110 degrees	2,3 m	Vertical	Pass
2	40,365 MHz	43,7 dBµV/m	40 dBµV/m	34,6 dBµV/m	-5,4 dB	110 degrees	2,3 m	Vertical	Pass
3	42,303 MHz	42,8 dBµV/m	40 dBµV/m	31,9 dBµV/m	-8,1 dB	0 degrees	2,3 m	Vertical	Pass
4	46,268 MHz	47,6 dBµV/m	40 dBµV/m	36,4 dBµV/m	-3,6 dB	112 degrees	1,3 m	Vertical	Pass
5	52,736 MHz	44,1 dBµV/m	40 dBµV/m	34,6 dBµV/m	-5,4 dB	112 degrees	1,3 m	Vertical	Pass
6	66,25 MHz	38,5 dBµV/m	40 dBµV/m	23,8 dBµV/m	-16,2 dB	298 degrees	1,7 m	Vertical	Pass
7	71,606 MHz	34,2 dBµV/m	40 dBµV/m	18 dBµV/m	-22,0 dB	249 degrees	2,8 m	Horizontal	Pass

Peak Number	Frequency	Peak	Quasi-Peak Limit (FCC)	Quasi-Peak	Quasi-Peak Difference	Angle	Height	Polarization	Status
1	330,102 MHz	30,1 dBµV/m	46 dBµV/m	12,2 dBµV/m	-33,8 dB	299 degrees	1,25 m	Vertical	Pass
2	375,029 MHz	28,8 dBµV/m	46 dBµV/m	22,1 dBµV/m	-23,9 dB	204 degrees	1,5 m	Vertical	Pass
3	437,497 MHz	36,6 dBµV/m	46 dBµV/m	33,5 dBµV/m	-12,5 dB	61 degrees	1 m	Vertical	Pass
4	507,308 MHz	27,4 dBµV/m	46 dBµV/m	15,9 dBµV/m	-30,1 dB	0 degrees	1,25 m	Vertical	Pass
5	531,263 MHz	27,4 dBµV/m	46 dBµV/m	16,5 dBµV/m	-29,5 dB	111 degrees	1,5 m	Horizontal	Pass
6	556,4 MHz	28,9 dBµV/m	46 dBµV/m	18,8 dBµV/m	-27,2 dB	63 degrees	2,25 m	Horizontal	Pass
7	625,029 MHz	41,3 dBµV/m	46 dBµV/m	37,7 dBµV/m	-8,3 dB	298 degrees	1,25 m	Horizontal	Pass

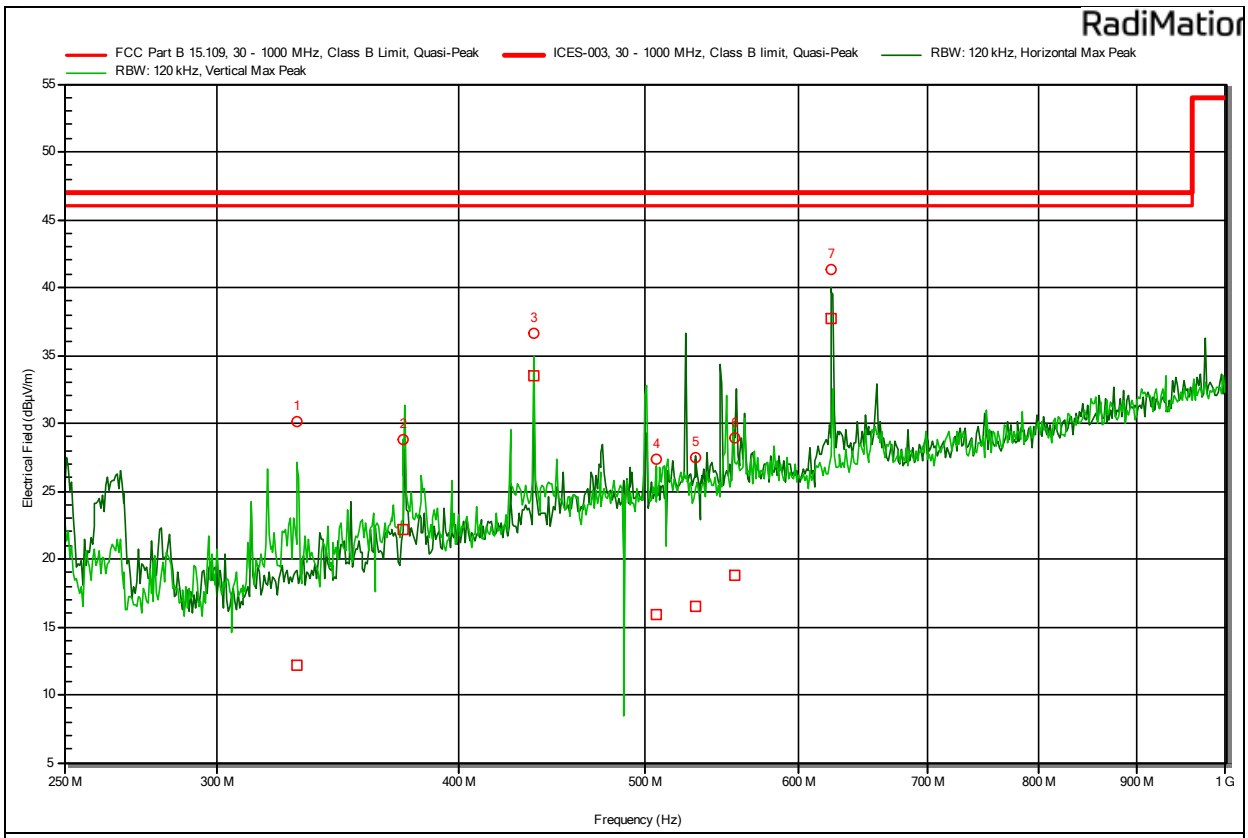
Peak Number	Frequency	Peak Limit	Peak	Average Limit	Average	Angle	Heigt	Polarization	Status
1	1,431 GHz	74 dBµV/m	34,7 dBµV/m	54 dBµV/m	22,7 dBµV/m	17 degrees	2 m	Vertical	Pass
2	2,441 GHz	74 dBµV/m	39,6 dBµV/m	54 dBµV/m	26,7 dBµV/m	228 degrees	3 m	Horizontal	Pass
3	6,446 GHz	74 dBµV/m	49,8 dBµV/m	54 dBµV/m	36,9 dBµV/m	0 degrees	3 m	Vertical	Pass
4	10,329 GHz	74 dBµV/m	56,1 dBµV/m	54 dBµV/m	45,3 dBµV/m	298 degrees	2 m	Vertical	Pass
5	14,702 GHz	74 dBµV/m	59,2 dBµV/m	54 dBµV/m	47,4 dBµV/m	360 degrees	3,77 m	Horizontal	Pass
6	17,837 GHz	74 dBµV/m	62,6 dBµV/m	54 dBµV/m	50,2 dBµV/m	202 degrees	3,5 m	Vertical	Pass

The results of the radiated emission tests are depicted in the table above. A selection of plots is provided on the next pages

3.1.7 Plots of the Radiated Spurious Emissions Measurement



Plot 1 radiated emissions of the EUT in the range 30 – 250 MHz
(pre-scan peak values shown)



Plot 2: radiated emissions of the EUT in the range 250-1000 MHz
(pre-scan peak values shown)

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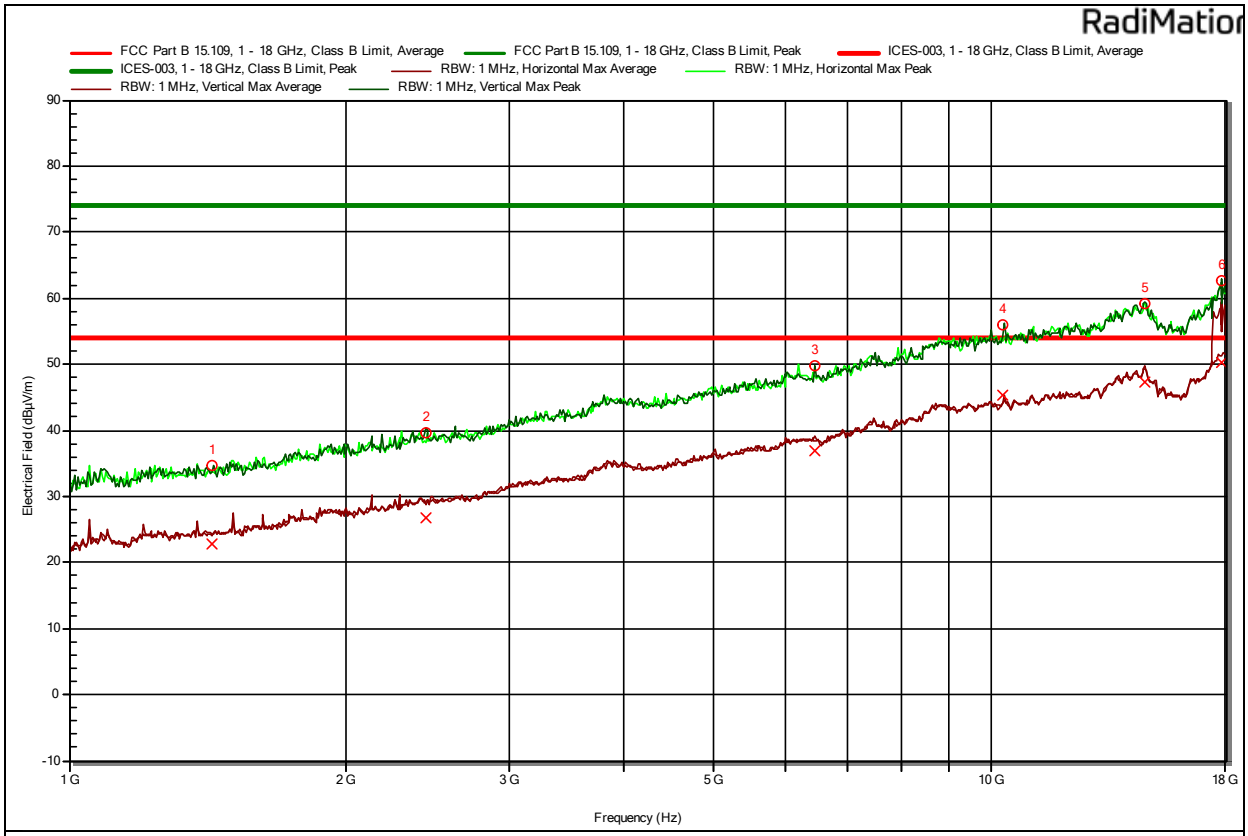


Plot 5: radiated emissions of the EUT, Antenna vertical, in the range 1-12.5 GHz (peak and average values shown)

3.2 AC Power-line conducted emissions

3.2.1 Limit

§ 15.107 (a)
Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).

ICES-003 Issue 7 section 3.2.1

The ITE or digital apparatus shall comply with the conducted emission limits specified in table below at its AC mains power terminals. The product under test shall comply with both the quasi-peak and the average limits.

Where the product under test is powered through an external device (for example, through an external power supply, or by means of a device providing power over Ethernet to the product under test), the conducted emission limits apply at the AC mains power terminals of the external device, while this is powering the product under test: see ICES-Gen.

Frequency of Emission (MHz)	Conducted Limit (dBµV) Quasi-Peak	Conducted Limit (dBµV) Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 - 30	60	50

*Decreases with the logarithm of the frequency.

3.2.2 Measurement instruments

The measurement instruments are listed in chapter 2.5 of this report.

3.2.3 Test setup

The test setup is as shown in chapter 2.2.3 of this report.

3.2.4 Test procedure

According to ANSI C63.4: 2014, section 13.3

IRN 439 – Method 1

3.2.5 Measurement uncertainty

+/- 3.6 dB

3.2.6 AC Power Line Conducted emission data of the EUT, results

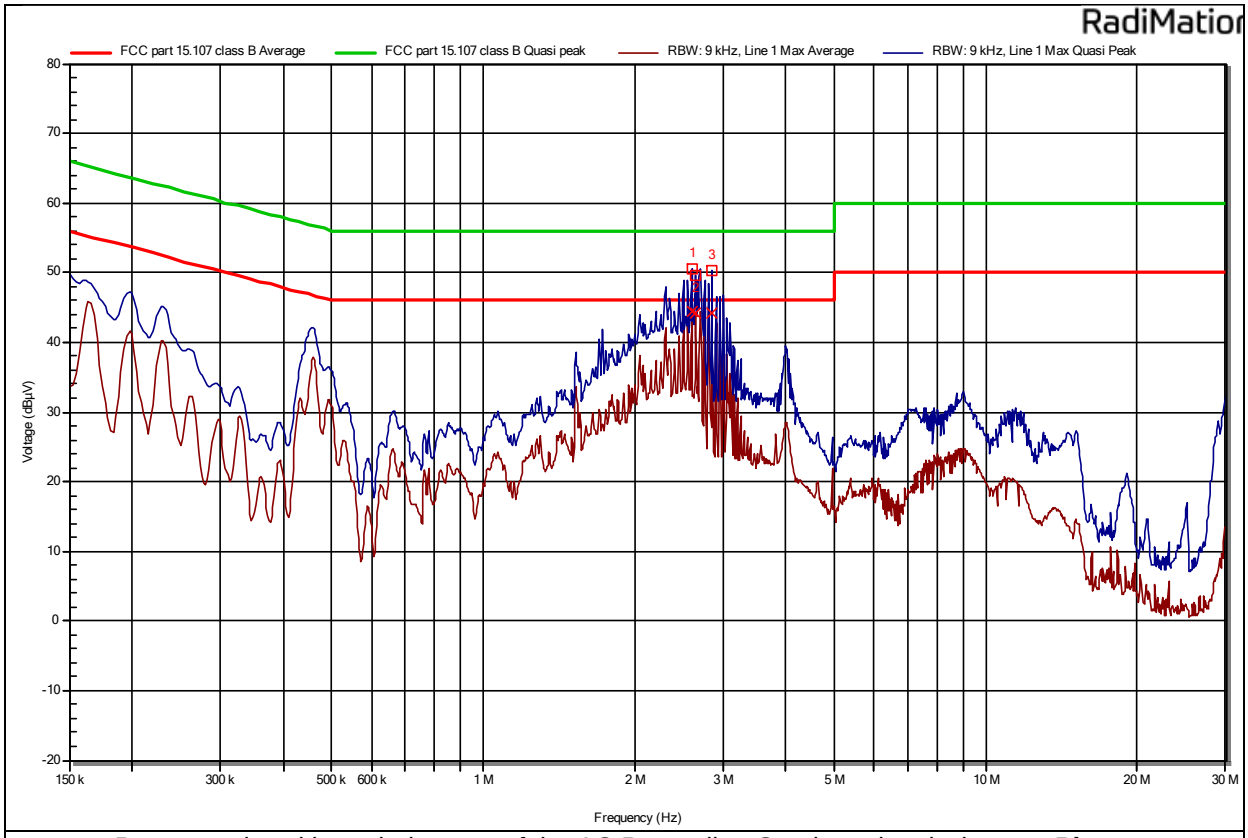
Phase:

Peak Number	Frequency	Quasi-Peak Limit	Quasi-Peak	Quasi-Peak Difference	Average Limit	Average	Average Difference	Status
1	2,6 MHz	56 dBµV	50,5 dBµV	-5,5 dB	46 dBµV	44,4 dBµV	-1,6 dB	Pass
2	2,65 MHz	56 dBµV	49,7 dBµV	-6,3 dB	46 dBµV	44,1 dBµV	-1,9 dB	Pass
3	2,85 MHz	56 dBµV	50,2 dBµV	-5,8 dB	46 dBµV	44,3 dBµV	-1,7 dB	Pass

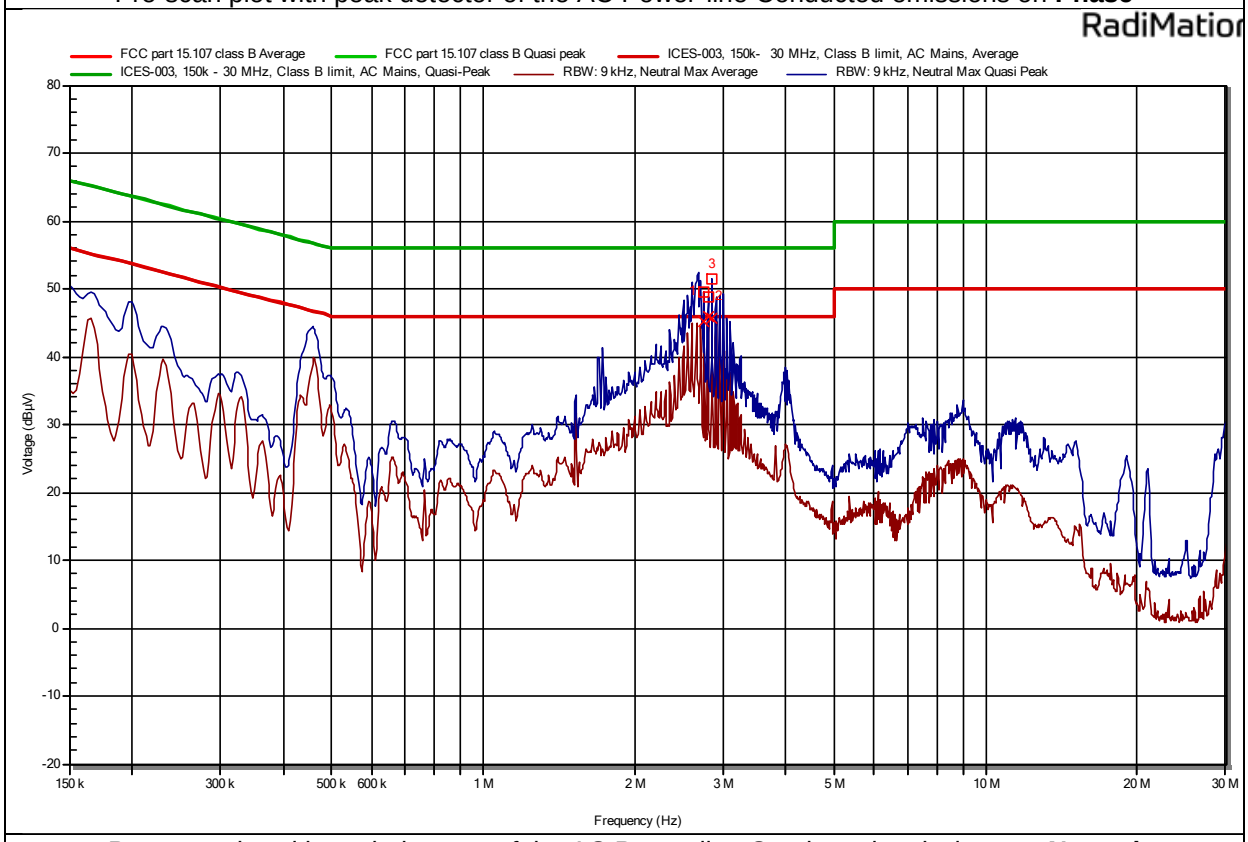
Neutral:

Peak Number	Frequency	Quasi-Peak Limit	Quasi-Peak	Quasi-Peak Difference	Average Limit	Average	Average Difference	Status
1	2,751 MHz	56 dBµV	49,4 dBµV	-6,6 dB	46 dBµV	45,3 dBµV	-0,7 dB	Pass
2	2,801 MHz	56 dBµV	48,9 dBµV	-7,1 dB	46 dBµV	45,9 dBµV	-0,1 dB	Pass
3	2,85 MHz	56 dBµV	51,4 dBµV	-4,6 dB	46 dBµV	45,7 dBµV	-0,3 dB	Pass

3.2.7 Plots of the AC mains conducted spurious measurement



Pre-scan plot with peak detector of the AC Power-line Conducted emissions on **Phase**



Pre-scan plot with peak detector of the AC Power-line Conducted emissions on **Neutral**

4.Sample calculations

All formulas for data conversions and conversion factors are reported in this chapter.

Conducted emission Measurement:

U_{lisn} (dBµV) = U (dBµV) + Corr. (dB)

Where:
U = Measuring receiver voltage
LISN insertion loss = Voltage division factor of LISN
Corr. = sum of single correction factors of used LISN, cables and pulse limiter.
Linear interpolation will be used for frequencies in between the values in the table.

Frequency (MHz)	**Voltage division LISN (db)**	**Cable loss (dB)**	**Corr. (dB)**
	114379 SN: 230000813 Rohde & Schwarz ENV 216	**TE 11134**	
0,15	9.7	0.02	9.72
0,2	9.68	0.03	9.71
0,3	9.68	0.03	9.71
0,5	9.69	0.08	9.77
0,7	9.69	0.25	9.94
0,8	9.69	0.25	9.94
1	9.68	0.11	9.79
2	9.7	0.15	9.85
3	9.71	0.21	9.92
5	9.72	0.21	9.93
7	9.76	0.25	10.01
8	9.77	0.25	10.02
10	9.77	0.29	10.06
15	9.84	0.34	10.18
20	9.88	0.37	10.25
25	9.97	0.43	10.4
30	10.08	0.45	10.53

Field Strength Measurement:

E (dBµV/m) = U(dBµV) + AF (dB/m) + Corr. (dB)

Where:
E = Electric field strength
U = Measuring receiver voltage
AF = Antenna factor
CL = Cable loss

Corr. = sum of single correction factors of used cable and amplifier (if applicable).
Linear interpolation will be used for frequencies in between the values in the table.
Tables shows an extract of the values.

Frequency (MHz)	**AF (dB/m)**	**Cable loss (dB)**	**Corr. (dB)**
	ID: 114436 VHA 9103 + BBA 9106 SN: 9856	**Id: SAR cable**	
30	18.6	0.68	19.28
100	10.4	1.15	11.55
150	14.8	1.41	16.21
200	16.0	1.63	17.63
250	16.9	1.93	18.83

Frequency (MHz)	**Gain (dBi)**	**Cable loss (dB)**	**Corr. (dB)**
	ID: 114385 EMCO LPDA SN: 9856	**Id: SAR cable**	
250	11.8	1.93	13.73
300	13	2.12	15.12
350	15.6	2.2	17.8
400	17.1	2.29	19.39
450	17.3	2.53	19.83
500	17.7	2.67	20.37
550	18.4	2.9	21.3
600	19.2	3.02	22.22
650	19.7	3.09	22.79
700	20.3	3.22	23.52
750	21.4	3.56	24.96
800	22	3.69	25.69
900	22.1	3.81	25.91
950	22.6	3.91	26.51
1000	22.5	4.3	26.8

Frequency (MHz)	AF (dB/m)	Gain (dB)	Cable loss (dB)	Corr. (dB)
	TE 00531 Emco 3115 SN: 9412-4377	TE 11132 Miteq JS4-18004000-30-8P-A1	TE 01315	
1000	23,6	40,4	2,0	66
1500	25,1	40,5	2,4	68
2000	27,1	40,5	2,7	70,3
2500	28,6	40,7	3,2	72,5
3000	30,5	40,7	3,2	74,4
3500	31,2	40,7	3,4	75,3
4000	32,7	40,9	4,9	78,5
4500	32,4	40,9	4,4	77,7
5000	33,2	40,7	4,6	78,5
5500	34,0	40,5	4,5	79
6000	34,6	40,0	5,2	79,8
6500	34,3	39,4	5,9	79,6
7000	35,2	38,6	5,7	79,5
7500	36,4	39,2	5,9	81,5
8000	37,0	38,9	6,3	82,2
8500	37,5	38,4	6,4	82,3
9000	38,1	37,4	6,5	82
9500	37,8	37,0	7,1	81,9
10000	38,2	36,5	7,3	82
10500	38,1	36,7	7,6	82,4
11000	38,3	36,9	8,3	83,5
11500	38,5	37,6	8,1	84,2
12000	39,1	38,3	8,4	85,8
12500	38,7	38,5	8,3	85,5
13000	39,2	38,9	9,2	87,3
13500	40,5	40,2	8,3	89
14000	41,1	40,0	8,2	89,3
14500	41,4	40,1	8,2	89,7
15000	40,2	41,4	8,3	89,9
15500	37,9	41,4	8,6	87,9
16000	37,5	42,8	9,2	89,5
16500	38,6	42,3	8,8	89,7
17000	41,1	43,1	9,4	93,6
17500	42,7	43,2	9,4	95,3
18000	44,0	44,2	9,8	98

Frequency (MHz)	AF (dB/m)	Gain (dB)	Cable loss (dB)	Corr. (dB)
	TE 00818 Flann 20240-25 SN: 163703	TE 11131 Miteq JS4-18004000-30-8P-A1	TE 01315	
18000	31,3	26,2	9,8	67,3
19000	31,5	26,1	9,6	67,2
20000	31,7	25,9	11	68,6
21000	31,9	24,3	10,7	66,9
22000	32,1	18,3	10,5	60,9
23000	32,2	18,9	10,8	61,9
24000	32,3	23,6	11,4	67,3
25000	32,4	24,5	11,6	68,5
26000	32,5	25,3	11,7	69,5

5.Photograph test setup

5.1 Photograph test setup Radiated Emissions

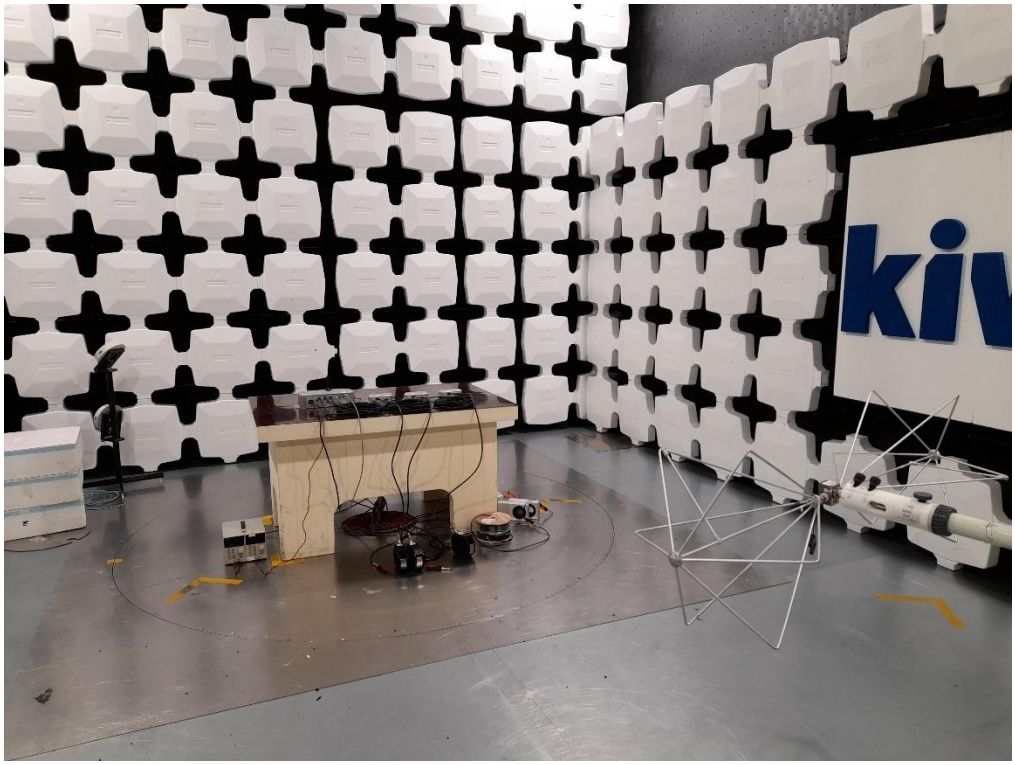


Photo 1 Photograph test setup radiated emissions 30-250 MHz, report section 3.1

Photo 2 Photograph test setup radiated emissions 250-1000 MHz, report section 3.1

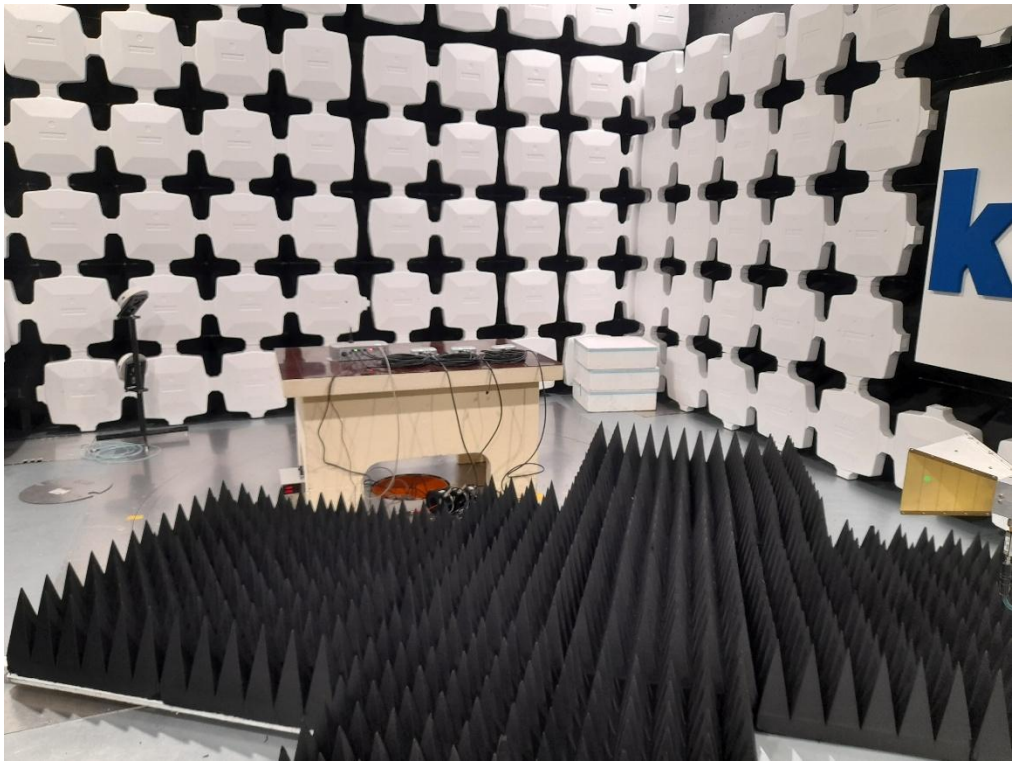


Photo 3 Photograph test setup radiated emissions 1-18 GHz, report section 3.1

5.2 Photograph test setup, AC Power Line Conducted emissions

Photo 4: Photographs AC Power Line conducted emission, report section 3.3

<<END OF REPORT>>