

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

Test report No. : P000339969 001 Ver 2.0



The RvA is signatory to ILAC - MRA

Product name : Nova 2.0  
Applicant : SenseGlove  
FCC ID :2A24H-NOVA02

## 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 L248 and is granted by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

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### Testing Location

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

## Revision History

Version	Date	Remarks	By
v0.50	28-11-2023	First draft	PvW
v1.00	15-01-2024	Final release	PvW
V2.0	12-02-2024	Updated applicant and manufacturer name and email	PvW

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## Summary of Test results

FCC	ISED	Description	Section in report	Verdict
15.109 (a)	ICES-003 Table 2	Radiated spurious emissions < 1GHz	3.1	Pass
15.109 (a)	ICES-003 Table 4	Radiated spurious emissions > 1GHz	3.1	Pass
15.107 (c)	ICES-003 Table 1	AC power-line conducted emissions	3.2	Pass

Decision rule: Pass/Fail decisions are based on measurement results without taking into account measurement uncertainty.

## 1 General Description

### 1.1 Applicant

**Client name:** SenseGlove  
**Address:** Molengraaffsingel 12, Delft, the Netherlands  
**Zip code:** 2629 JD  
**Telephone:** --  
**E-mail:** johannes@senseglove.com  
**Contact name:** Johannes Luijten

### 1.2 Manufacturer

**Manufacturer name:** SenseGlove  
**Address:** Molengraaffsingel 12, Delft, the Netherlands  
**Zip code:** 2629 JD  
**Telephone:** --  
**E-mail:** johannes@senseglove.com  
**Contact name:** Johannes Luijten

### 1.3 Tested Equipment Under Test (EUT)

**Product name:** Nova 2  
**Brand name:** Senseglove  
**FCC ID:** 2A24H-NOVA02  
**Product type:** Haptic Input device for Virtual Reality  
**Model(s):** Pilot Series  
**Batch and/or serial No.** NV2 PILOT 1L  
**Software version:** SenseCom 1.4.1  
**Hardware version:** Revision D  
**Date of receipt:** 03-11-2023  
**Tests started:** 03-11-2023  
**Testing ended:** 10-11-2023

Auxiliary items

**AUX1**

<b>Product name:</b>	AC/DC adapter for charging EUT
<b>Brand name:</b>	Logilink
<b>Product type:</b>	--
<b>Model(s):</b>	PA0210W
<b>Batch and/or serial No.</b>	--
<b>Remarks:</b>	Connects to EUT

#### 1.4 Product specifications of Equipment under test

<b>TX frequencies</b>	Bluetooth: 2400 -2483.5 MHz
<b>RX frequencies</b>	Bluetooth: 2400 -2483.5 MHz

Disclaimer: above info is declared by the applicant

The EUT is considered as a Class B device.

#### 1.5 Environmental conditions

<b>Test date</b>	03-11-2023	10-11-2023
<b>Ambient temperature</b>	19.9°C	19.4°C
<b>Humidity</b>	45.2%	47.6%

#### 1.6 Measurement standards

- ANSI C63.4:2014

#### 1.7 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

#### 1.8 Observation and remarks

Radiated emissions of the EUT have been measured in two modes: Operational mode and charging mode. In operational mode the internal motors are engaged and the device is not charging.

In charging mode the internal motors are not engaged, instead the device is charging the internal battery. In charging mode the EUT can not be used normally.

Conducted emissions have only been measured in charging mode as the EUT is not connected to the mains when it is used in operating mode.

## 1.9 Conclusions

The sample of the product showed **NO NON-COMPLIANCES** to the specifications stated in paragraph 1.8 of this report.

The results of the test as stated in this report, are exclusively applicable to the product items as identified in this report. Kiwa Nederland B.V. accepts no responsibility for any properties of product items in this test report, which are not supported by the tests as specified in paragraph 1.8 "*Applicable standards*".

All tests are performed by:

Name : P. van Wanrooij, BASc and ing. A. Bos

Review of test methods and report by:

Name : ing. R. van Barneveld

The above conclusions have been verified by the following signatory:

Date : 13-02-2024

Name : ing. M.H. Khan

Signature : 

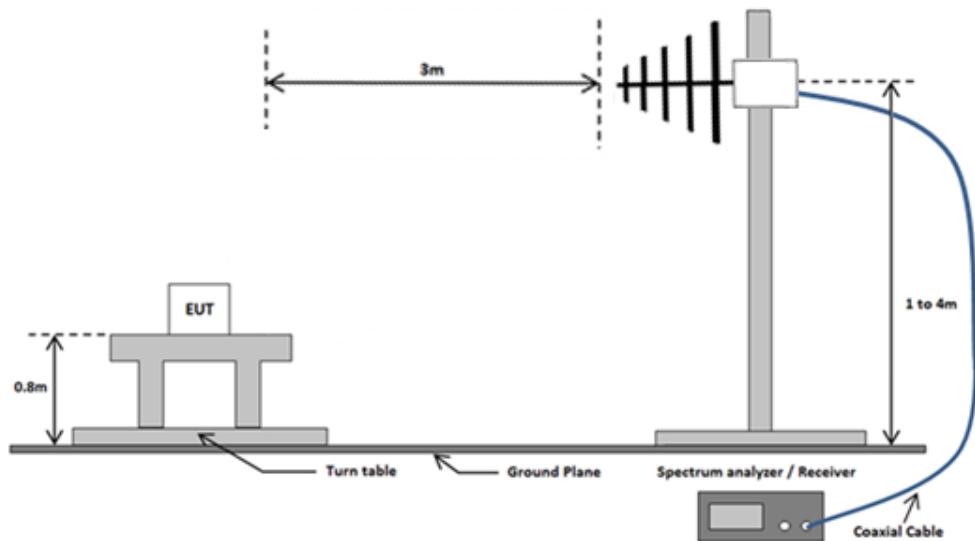
## 2 Test configuration of the Equipment Under Test

### 2.1 Test mode

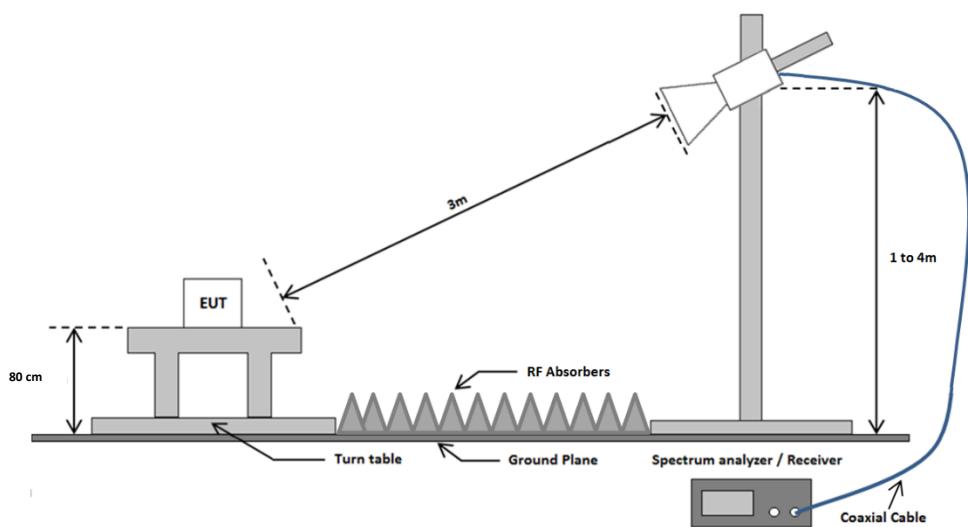
The equipment is set in 'locked' mode which activates the actuators in the glove.

### 2.2 Test setups

#### 2.2.1 Radiated emissions test setup 30 MHz - 1 GHz

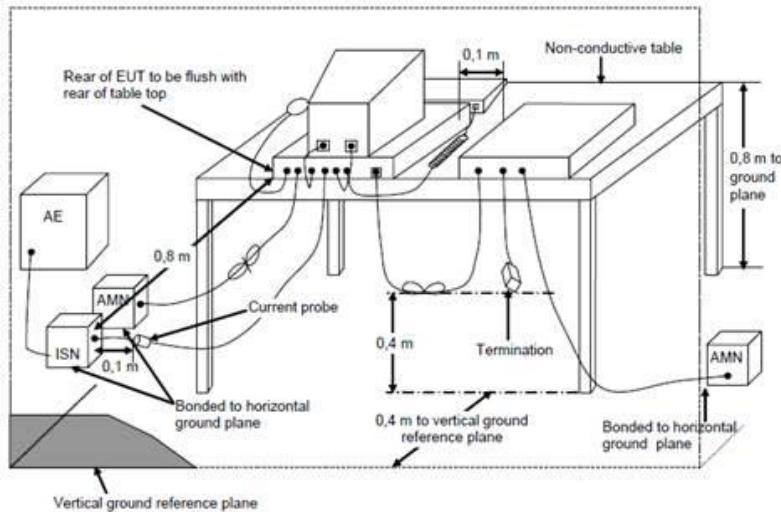


#### 2.2.2 Radiated emissions test setup above 1 GHz



### 2.2.3 AC Power line conducted emissions test setup

#### Emissions test at AC mains



List of used cables					
Number	Function	From	To	Length	Remarks
1	DC power USB	AC/DC adapter	EUT	< 3m	Only connected to EUT when it is being charged. EUT cannot be used while plugged in.

### 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.
EMI Receiver	Rohde & Schwarz	ESCI	114161	02-2023	02-2024	3.2
EMI Receiver	Rohde & Schwarz	ESR7	114534	04-2023	04-2024	3.1
Spectrum Analyzer	Rohde & Schwarz	FSV40	114527	11-2023	11-2024	3.1
3.0 GHz HPF	Wainwright	WHK3.0/18G-10EF	114682	07-2021	07-2024	3.1
Biconical antenna + 6dB attenuator	Schwarzbeck + HP	VHA9103 + 8491A	114436 + 114254	03-2021	03-2024	3.1
Logperiodic antenna	EMCO	3147	114385	03-2021	03-2024	3.1
Horn antenna	EMCO	3115	114607	01-2021	01-2024	3.1
Horn antenna	FLANN-MICROWAVE	20240-25	114518	NA*	NA*	3.1
Preamplifier 1-18 GHz	Schwarzbeck	BBV 9718D	114874	01-2023	01-2024	3.1
Preamplifier 18-40 GHz	Miteq	JS4-18004000-33-8P	114693	01-2023	01-2024	3.1
LISN /Two line V-network	Rohde & Schwarz	ENV 216	114379	12-2023	12-2025	3.2

\*Note: Standard gain horn antennas do not need calibration

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 ( $\mu$ V/meter)	Field strength (dB $\mu$ V/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 ( $\mu$ V/meter)	Field strength (dB $\mu$ V/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 ( $F_X$ ) <sup>i</sup>	Highest measurement frequency ( $F_M$ )
$F_X \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} < F_X \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} < F_X \leq 1 \text{ GHz}$	5 GHz
$F_X > 1 \text{ GHz}$	5 $\times F_X$ 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

Note: only in the 30-250 MHz range the EUT showed different radiated spurious emissions between charging and operational mode. In all other tested frequency ranges the worst case mode for emissions is operational mode, so only operational mode emissions have been reported for these frequency ranges.

Operational mode

Frequency	Quasi-Peak	Quasi-Peak Limit	Height	Polarization	Status
72,46 MHz	4,8 dB $\mu$ V/m	40 dB $\mu$ V/m	2,5 m	Vertical	Pass

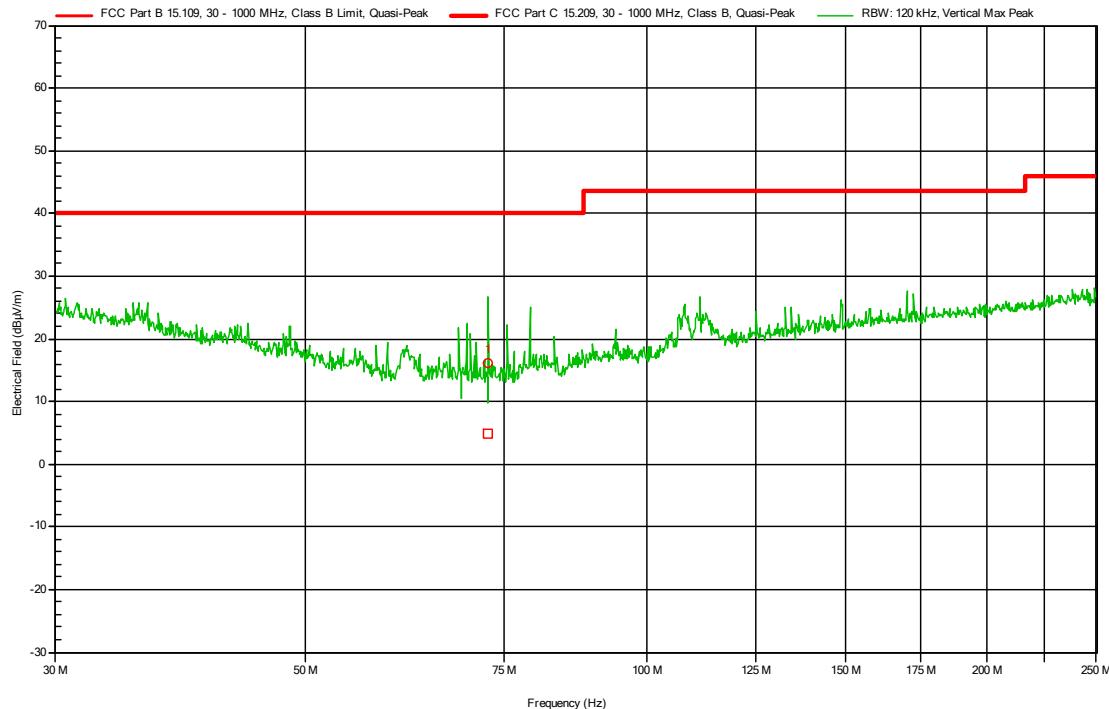
Frequency	Average	Average Limit	Peak	Peak Limit	Height	Polarization	Status
3,278 GHz	43,3 dB $\mu$ V/m	54 dB $\mu$ V/m	49 dB $\mu$ V/m	74 dB $\mu$ V/m	3 m	Horizontal	Pass
1,71 GHz	37,6 dB $\mu$ V/m	54 dB $\mu$ V/m	44,4 dB $\mu$ V/m	74 dB $\mu$ V/m	4 m	Vertical	Pass

Charging mode

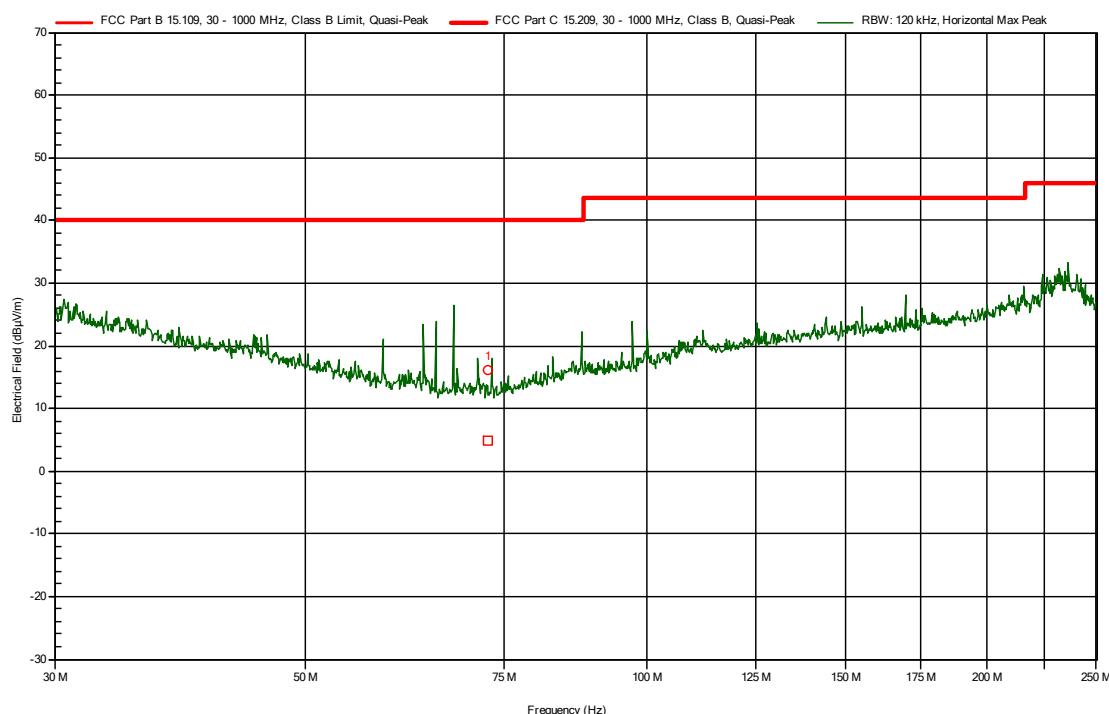
Frequency	Quasi-Peak	Quasi-Peak Limit	Height	Polarization	Status
182,801 MHz	36,6 dB $\mu$ V/m	43,5 dB $\mu$ V/m	1 m	Horizontal	Pass
221,933 MHz	33,1 dB $\mu$ V/m	46 dB $\mu$ V/m	1,2 m	Horizontal	Pass
43,02 MHz	28,9 dB $\mu$ V/m	40 dB $\mu$ V/m	1 m	Vertical	Pass
639,962 MHz	34,3 dB $\mu$ V/m	46 dB $\mu$ V/m	2,8 m	Horizontal	Pass
479,985 MHz	38,6 dB $\mu$ V/m	46 dB $\mu$ V/m	2 m	Horizontal	Pass
479,975 MHz	30,9 dB $\mu$ V/m	46 dB $\mu$ V/m	2,2 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

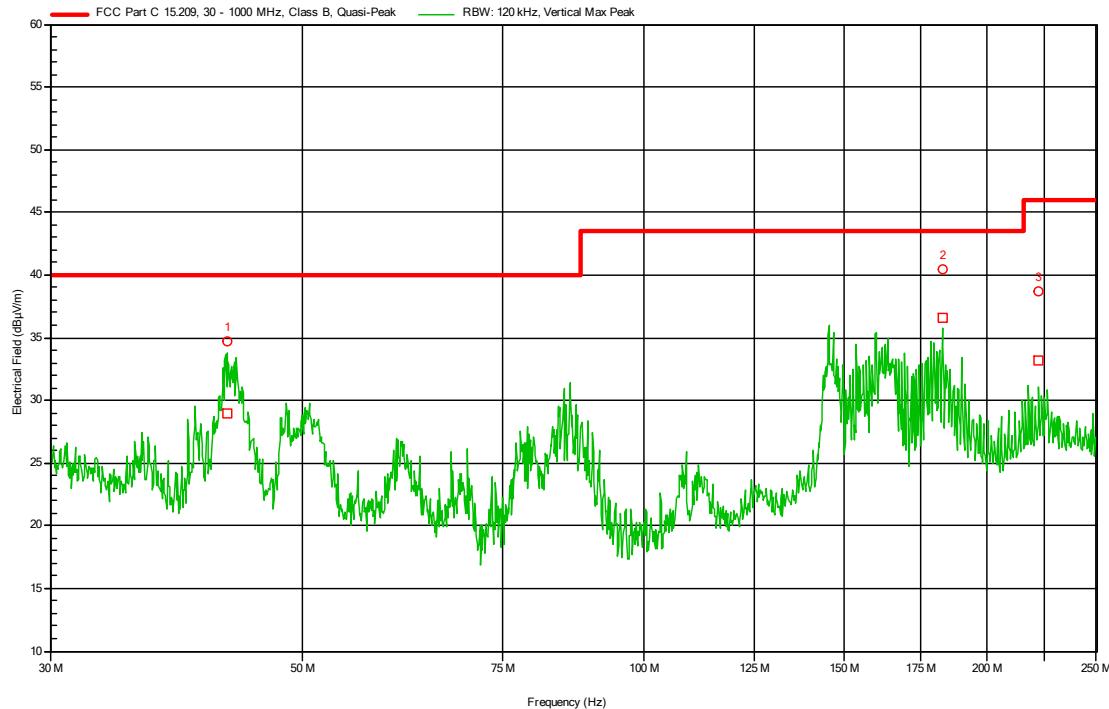
### 3.1.7 Plots of the Radiated Spurious Emissions Measurement



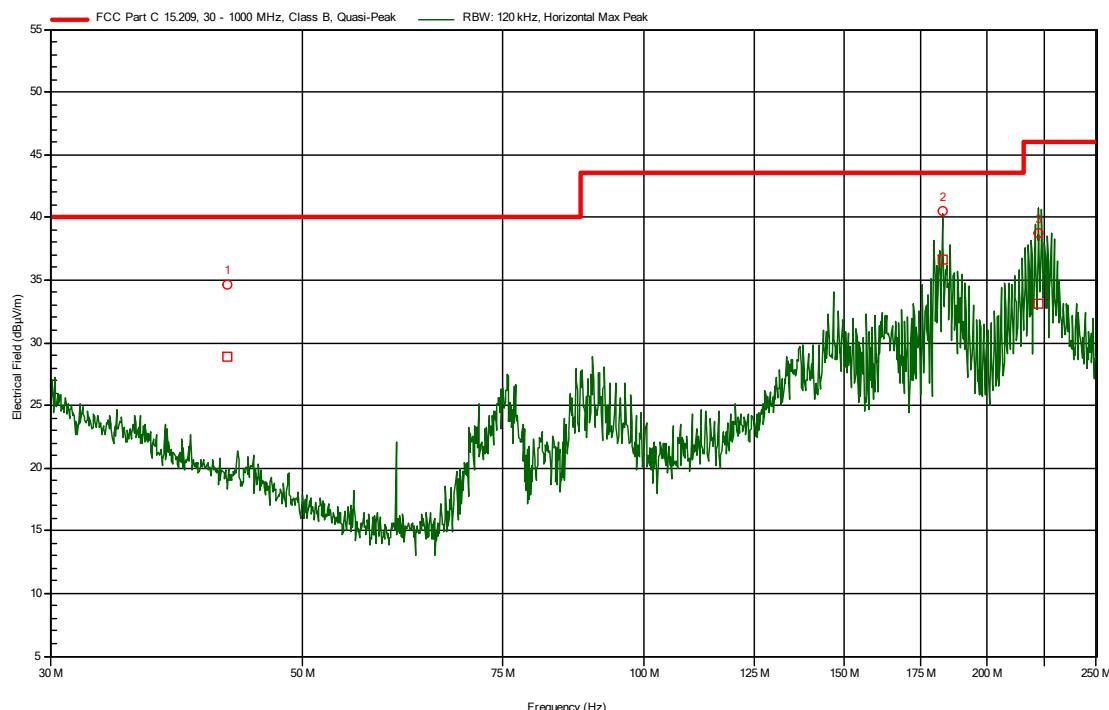
Plot 1a: radiated emissions of the EUT (Operational mode), Antenna vertical, in the range 30 – 250 MHz  
(pre-scan peak values shown)



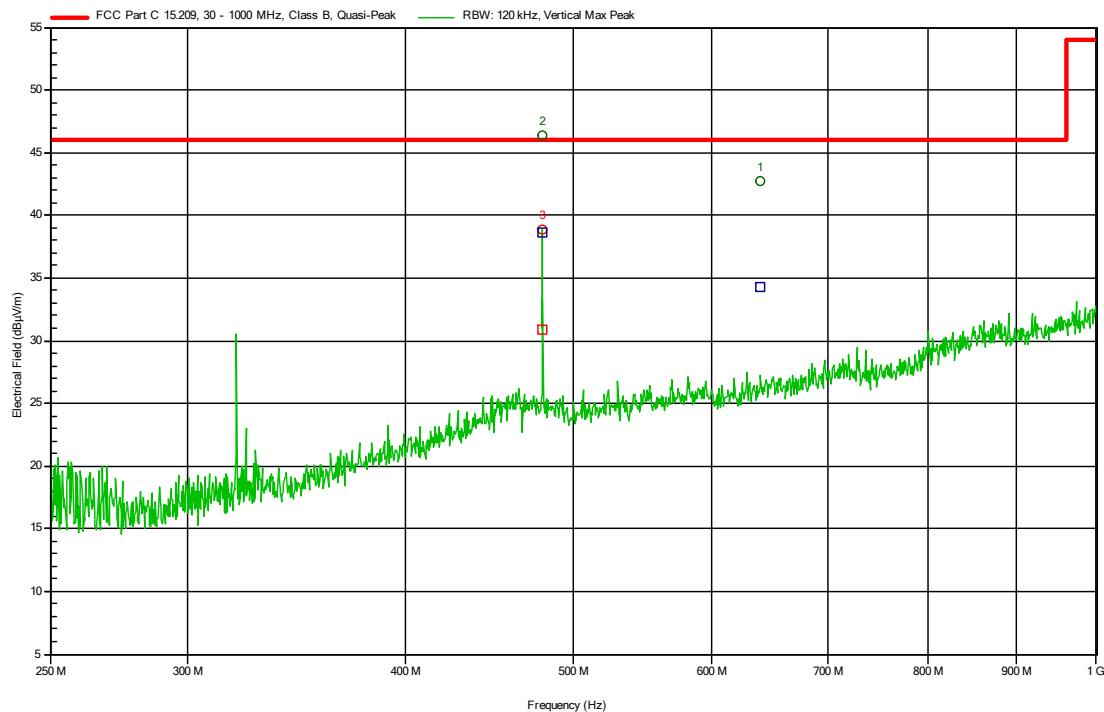
Plot 1b: radiated emissions of the EUT (Operational mode), Antenna horizontal, in the range 30 – 250 MHz  
(pre-scan peak values shown)



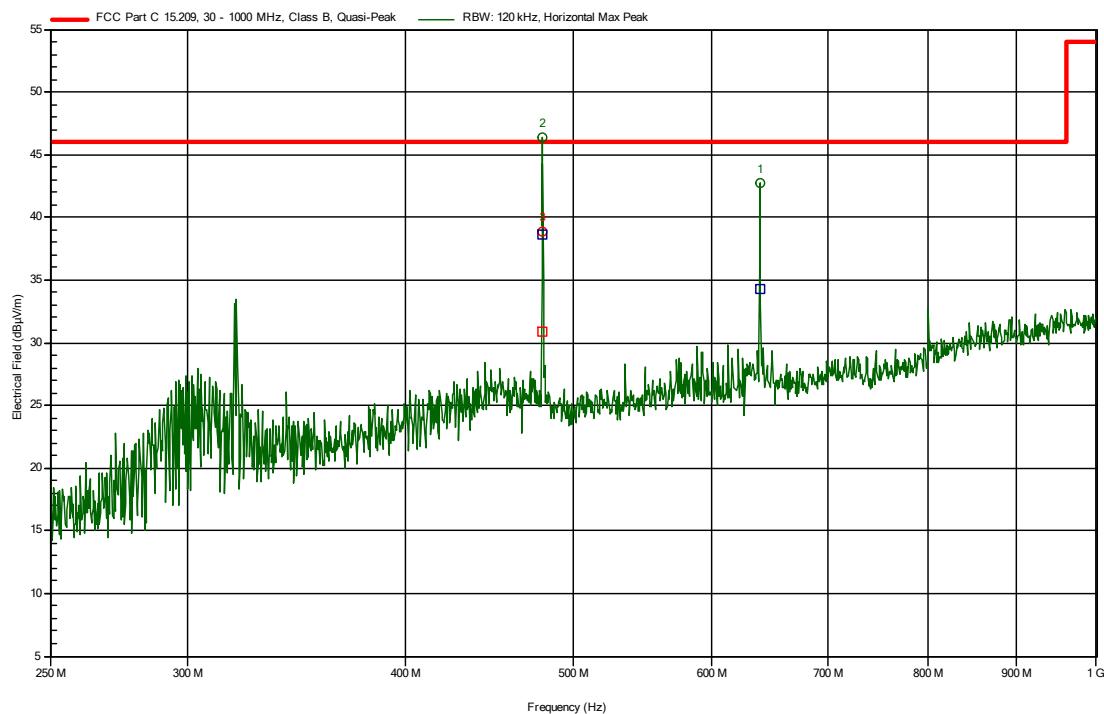
Plot 1a: radiated emissions of the EUT (Charging mode), Antenna vertical, in the range 30 – 250 MHz  
(pre-scan peak values shown)



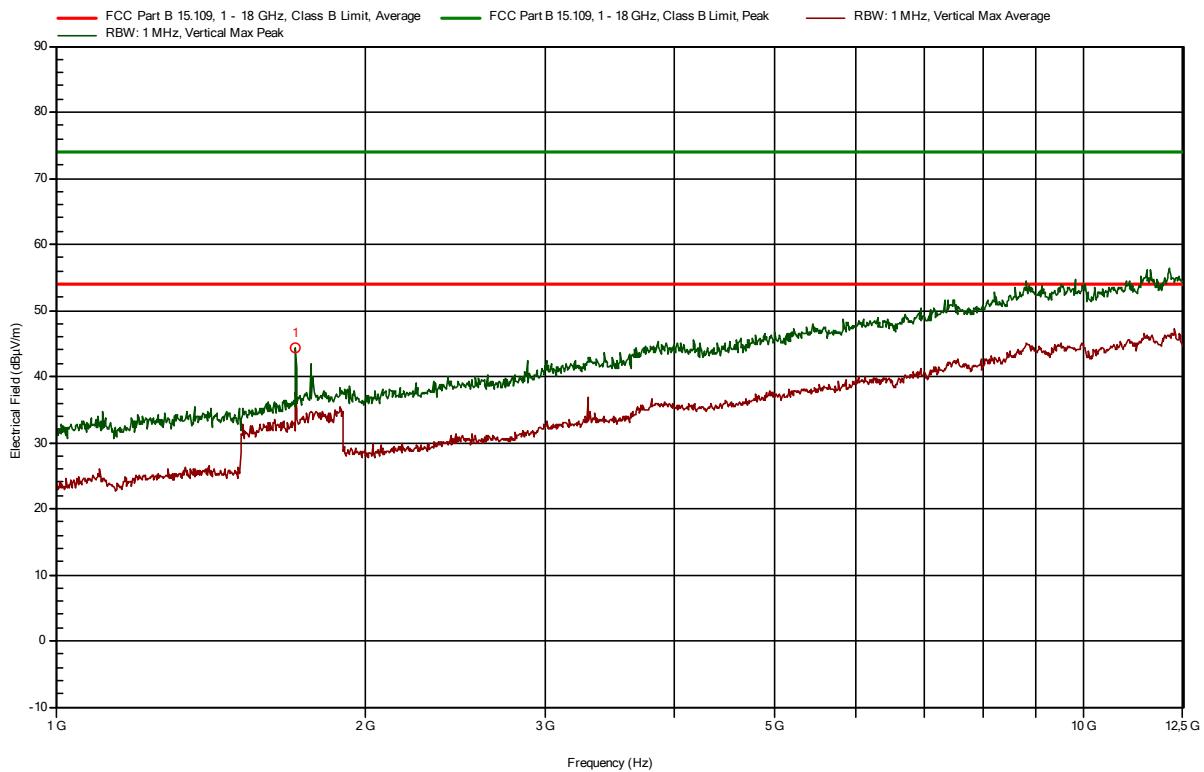
Plot 1b: radiated emissions of the EUT (Charging mode), Antenna horizontal, in the range 30 – 250 MHz  
(pre-scan peak values shown)



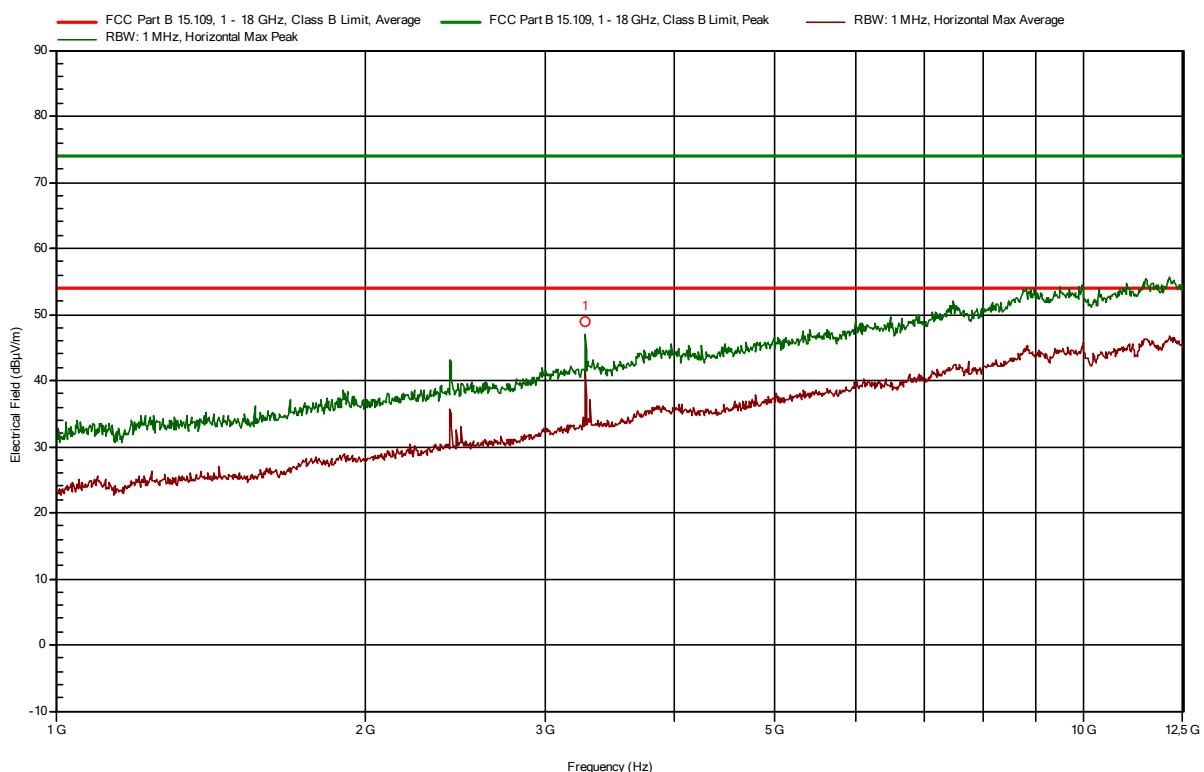
Plot 2a: radiated emissions of the EUT (Operational mode), Antenna vertical, in the range 250-1000 MHz  
(pre-scan peak values shown)



Plot 2b: radiated emissions of the EUT (Operational mode), Antenna horizontal, in the range 250-1000 MHz  
(pre-scan peak values shown)



Plot 3a: radiated emissions of the EUT (Operational mode), Antenna vertical, in the range 1-12.5 GHz  
(peak and average values shown)



Plot 3b: radiated emissions of the EUT (operational mode), Antenna horizontal, 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  $\mu$ H/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 (dB $\mu$ V) Quasi-Peak	Conducted Limit (dB $\mu$ V) Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 - 30	46	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

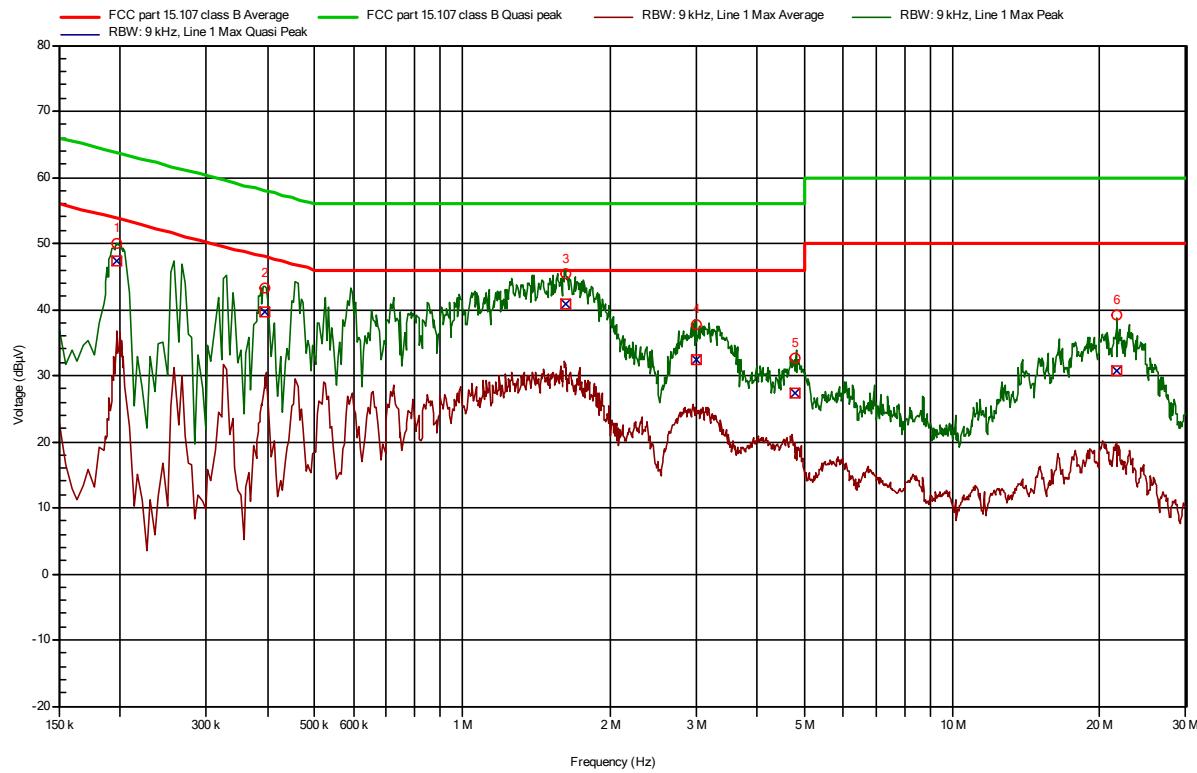
#### 3.2.5 Measurement uncertainty

+/- 3.6 dB

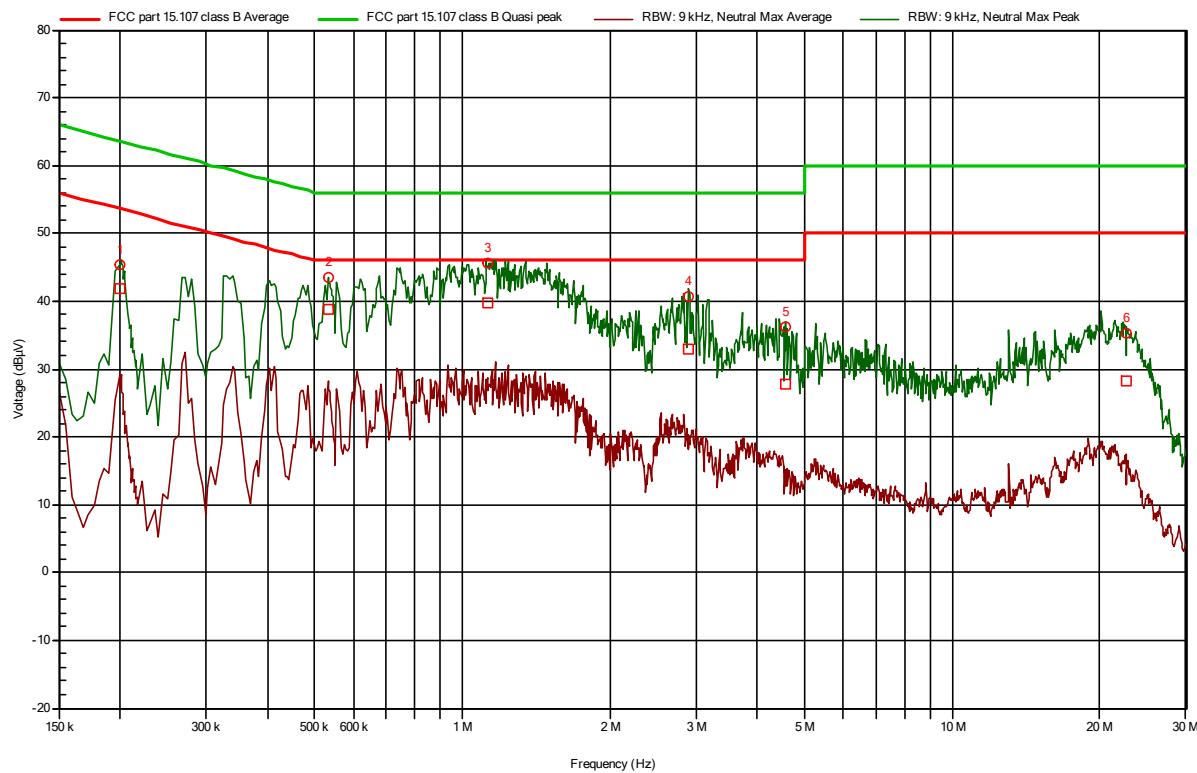
### 3.2.6 AC Power Line Conducted emission data of the EUT, results

Frequency	Average	Average Limit	Quasi-Peak	Quasi-Peak Limit	LISN	Status
199,5 kHz	29,1 dBµV	53,6 dBµV	42 dBµV	63,6 dBµV	Neutral	Pass
532,5 kHz	26,8 dBµV	46 dBµV	38,8 dBµV	56 dBµV	Neutral	Pass
1,13 MHz	26,9 dBµV	46 dBµV	39,8 dBµV	56 dBµV	Neutral	Pass
2,897 MHz	19 dBµV	46 dBµV	33 dBµV	56 dBµV	Neutral	Pass
4,564 MHz	12,8 dBµV	46 dBµV	27,7 dBµV	56 dBµV	Neutral	Pass
22,658 MHz	13,2 dBµV	50 dBµV	28,2 dBµV	60 dBµV	Neutral	Pass
197,25 kHz	33,7 dBµV	53,7 dBµV	47,5 dBµV	63,7 dBµV	Line 1	Pass
394,35 kHz	28,4 dBµV	48 dBµV	39,6 dBµV	58 dBµV	Line 1	Pass
1,621 MHz	30,6 dBµV	46 dBµV	40,8 dBµV	56 dBµV	Line 1	Pass
2,994 MHz	24,4 dBµV	46 dBµV	32,4 dBµV	56 dBµV	Line 1	Pass
4,794 MHz	18,2 dBµV	46 dBµV	27,4 dBµV	56 dBµV	Line 1	Pass
21,629 MHz	17,6 dBµV	50 dBµV	30,6 dBµV	60 dBµV	Line 1	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:

$$U_{lisn} (\text{dB}\mu\text{V}) = U (\text{dB}\mu\text{V}) + \text{Corr. (dB)}$$

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)	Insertion Loss Pulse limiter (dB)	Cable loss (dB)	Corr. (dB)
		Kiwa ID: 114159 SN: 892785/004 Rohde & Schwarz ESH3-Z5		
0,15	0,09	9,87	0,02	9,98
0,2	0,1	9,87	0,03	10
0,3	0,1	9,87	0,03	10
0,5	0,1	9,87	0,08	10,05
0,7	0,12	9,87	0,25	10,24
0,8	0,12	9,87	0,25	10,24
1	0,13	9,87	0,11	10,11
2	0,16	9,87	0,15	10,18
3	0,19	9,87	0,21	10,27
5	0,26	9,88	0,21	10,35
7	0,36	9,89	0,25	10,5
8	0,39	9,89	0,25	10,53
10	0,46	9,91	0,29	10,66
15	0,77	9,93	0,34	11,04
20	0,95	9,96	0,37	11,28
25	1,12	9,99	0,43	11,54
30	1,1	10,04	0,45	11,59

## Field Strength Measurement:

$$E (\text{dB}\mu\text{V}/\text{m}) = U(\text{dB}\mu\text{V}) + AF (\text{dB}/\text{m}) + \text{Corr.} (\text{dB})$$

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)
	Kiwa ID: 109683 Chase CBL6112B SN: 2408	Kiwa ID: SAR cable	
30	25,4	0,68	26,1
100	16,8	1,15	18,0
150	16,8	1,41	18,2
200	15,3	1,63	16,9
250	19,3	1,93	21,2
300	13,3	2,12	15,4
350	14,6	2,20	16,8
400	22,0	2,29	24,3
450	23,0	2,53	25,5
500	23,8	2,67	26,5
550	25,4	2,90	28,3
600	24,8	3,02	27,8
650	25,2	3,09	28,3
700	25,0	3,22	28,2
750	25,8	3,56	29,4
800	25,8	3,69	29,5
900	26,5	3,81	30,3
950	27,0	3,91	30,9
1000	27,4	4,30	31,7

Frequency (MHz)	AF (dB/m)	Gain (dB)	Cable loss (dB)	Corr. (dB)
Kiwa ID:114607 Emco 3115 SN: 9412-4377	Kiwa ID: 114693 Miteq JS4-18004000-30-8P-A1		Kiwa ID cable	
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)
Kiwa ID:114518 Flann 20240-25 SN: 163703	Kiwa ID: 114693 Miteq JS4-18004000-30-8P-A1		Kiwa ID: cable	
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

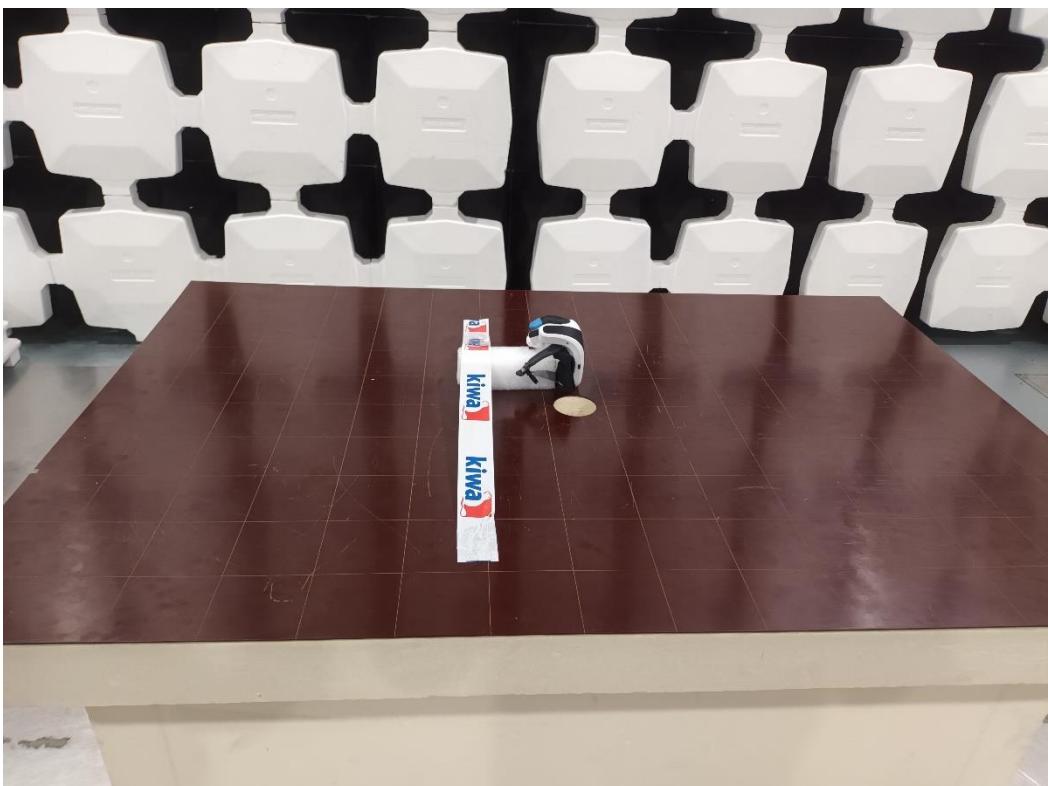
### 5.1 Photograph test setup Radiated Emissions



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 1-12.5 GHz, report section 3.1*

<<END OF REPORT>>