

ry ISO/IEC 17025 Page 1 (21)

WEDAO

EDITE

Ackred, nr 1003

### **EMC TEST REPORT**

### No. 2012522STO-106

### **Electromagnetic disturbances**

### EQUIPMENT UNDER TEST

| Equipment:            | Luminaire for furniture with LED |
|-----------------------|----------------------------------|
| Type/Model:           | L1926 Mittled                    |
| Manufacturer:         | IKEA of Sweden AB                |
| Tested by request of: | IKEA of Sweden AB                |

### SUMMARY

Referring to the emission limits, and the operating mode during the tests specified in this report, the equipment complies with the requirements according to the following standards:

FCC 47 CFR Part 15: Radio frequency device, Subpart B: Unintentional radiators. Class B equipment.

ICES-005 Issue 5: Lighting Equipment, Class B. (2018)

For details, see clause 2 - 4.

Date of issue: May 8, 2020

Tested by:

Anders Lindström

Approved by:

Anna Pogosian

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Intertek Semko AB Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden www.intertek.se



### **Revision History**

| Test report number | Date        | Description   | Changes |
|--------------------|-------------|---------------|---------|
| 2012522STO-106     | May 8, 2020 | First release |         |

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### 1. CLIENT INFORMATION

The EUT has been tested by request of

| Company | IKEA of Sweden AB<br>Box 702<br>343 81 Älmhult<br>Sweden |
|---------|--|
|         |  |

Name of contact Elias Molin

### 2. EQUIPMENT UNDER TEST (EUT)

### 2.1 Identification of the EUT

| Equipment     | Luminaire for furniture with LED |
|---------------|----------------------------------|
| Type/Model    | L1926 Mittled                    |
| Brand name    | IKEA                             |
| Serial Number | -                                |
| Manufacturer  | IKEA of Sweden                   |
| Rating        | 24 V DC, 2.2 W                   |
|               |                                  |

Class

Highest clock frequency

FCC ID

FHO-L1926

Ш

< 108 MHz



FCC ID: FHO-L1926 Conforms to: UL Std 2108 Certified to: CSA Std C22.2 No 9.0 This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Type No. L1926 Mittled Made in

Sup. No.00000

### EUT rating plate

### 2.2 Test setup and EUT photos

Test setup and EUT photos are enclosed in Annex 1, No. 2012522STO-108.

### 2.3 Additional information about the EUT

The EUT was tested in a tabletop configuration. The EUT consists of the following units:

| Units      | Туре               | Serial number |
|------------|--------------------|---------------|
| Luminaire  | L1926 Mittled      |               |
| LED driver | ICPSLC24-10NA-IL-1 | LED driver    |
| LED driver | ICPSLC24-30NA-IL-1 | LED driver    |

### 3. TEST SPECIFICATIONS

### 3.1 Standards

Requirements:

FCC 47 CFR Part 15: Radio frequency device, Subpart B: Unintentional radiators.

ICES-005 Issue 5: Lighting Equipment (2018).

Test methods:

ANSI C63.4: 2014: American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

### 3.2 Additions, deviations and exclusions from standards and accreditation

No additions, deviations or exclusions have been made from standards and accreditation.

### 3.3 Test site

Measurements were performed at:

Intertek Semko AB. Torshamnsgatan 43, P.O. Box 1103 SE-164 22 Kista

Intertek Semko AB is a FCC listed test site with site registration number 90913 Intertek Semko AB is a FCC accredited conformity assessment body with designation number SE0002 Intertek Semko AB is an Industry Canada listed test facility with IC assigned code 2042G

Measurement chambers

| Measurement Chamber | Type of chamber               | IC Site filing # |
|---------------------|-------------------------------|------------------|
| STORA HALLEN        | Semi-anechoic<br>10 m and 3 m | 2042G-2          |

### 3.4 Mode of operation during the test

The EUT was tested with 120 V, 60 Hz.

The EUT was measured with the dimmer regulation set to max luminous intensity and min luminous intensity and in stand by mode with two alternative LED drivers IKEA, types ICPSLC24-10NA-IL-1 and ICPSLC24-30NA-IL-1.

### 3.5 Compliance

The EUT shall comply with the emission limits according to the standards as listed below

### Conducted emission requirements:

The EUT shall meet the limits for the standards. Reference: 47 CFR §15.107 ICES-005, section 5.5.2

### Limits for conducted emission according to FCC and ICES-005

Class B

| Frequency range | Limits [dBµV] |         |
|-----------------|---------------|---------|
| [MHz]           | Quasi-Peak    | Average |
| 0.15 – 0.50     | 66 – 56       | 56 – 46 |
| 0.50 - 5.00     | 56            | 46      |
| 5.00 - 30.0     | 60            | 50      |

#### **Radiated Emission requirements:**

The EUT shall meet the limits for the standards. Reference: 47 CFR §15.109 ICES-005, section 5.5.3

#### Limits for radiated emission according to FCC

Class B

| Frequency range<br>[MHz] | Field strength<br>at 3 m<br>(dBµV/m) | Field strength<br>at 10 m<br>(dBμV/m) | Detector       |
|--------------------------|--------------------------------------|---------------------------------------|----------------|
| 30 – 88                  | 40.0                                 | 29.5                                  | Quasi Peak     |
| 88 – 216                 | 43.5                                 | 33.0                                  | Quasi Peak     |
| 216 – 960                | 46.0                                 | 35.5                                  | Quasi Peak     |
| 960 – 1000               | 54.0                                 | 43.5                                  | Quasi Peak     |
| Above 1000               | 54.0 / 74.0                          | 43.5 / 63.5                           | Average / Peak |

The values for 10 m measuring distance are calculated by subtracting 10.5 dB from the 3 m limit. (i.e. an extrapolation factor of 20 dB/decade according to (15.31(f)))

### Limits for radiated emission according to ICES-005

Class B

| Frequency range<br>[MHz] | Field strength<br>at 3 m<br>(dBμV/m) | Field strength<br>at 10 m<br>(dBμV/m) | Detector   |
|--------------------------|--------------------------------------|---------------------------------------|------------|
| 30 – 88                  | 40.0                                 | 29.5                                  | Quasi Peak |
| 88 – 216                 | 43.5                                 | 33.1                                  | Quasi Peak |
| 216 – 1000               | 46.0                                 | 35.6                                  | Quasi Peak |

### 4. TEST SUMMARY

The results in this report apply only to sample tested: Result: Pass – Fail – N/A= Not applicable

| Standard                 | Description   | Result |
|--------------------------|---|--------|
|                          | Emission  |        |
| FCC Part 15<br>subpart B | Conducted continuous emission in the frequency range<br>0.150 – 30 MHz, AC Power input port   | PASS   |
| ICES-005                 | The EUT complies with the Class B limits.<br>The margin to the limit was at least 5.3 dB at 0.618 MHz<br>See clause 5.4 – 5.9.            |        |
| FCC Part 15<br>subpart B | Radiated emission of electromagnetic fields in the frequency range 30 – 1000 MHz  | PASS   |
| ICES-005                 | The EUT complies with the Class B limits.<br>The margin to the FCC limit was at least<br>11.8 dB at 30.000 MHz.<br>See clause 6.5 – 6.10. |        |
| FCC Part 15<br>subpart B | Radiated emission of electromagnetic fields in the frequency range 1 – 40 GHz   | N/A    |
| ICES-005                 | Not applicable, clock frequency < 108 MHz.  |        |

### 5. CONDUCTED CONTINUOUS DISTURBANCES in the frequency-range 0.15 – 30 MHz

### 5.1 Operating environment

| Date of test:  | Temperature: | Relative Humidity: |
|----------------|--------------|--------------------|
| April 24, 2020 | 23 [°C]      | 24 [%]             |

### 5.2 Test setup and test procedure

The test method is in accordance with ANSI C63.4.

The EUT was connected to the power via Artificial Mains Networks AMN.

The EUT was placed on an insulating support 0.8 m above the floor, 0.4 m from the vertical reference ground plane (RGP) and 0.8 m from the AMN/ISN.

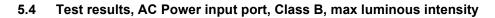
Overview sweeps were performed for each lead. During the tests the EUT was operated according to the mode of operation mentioned in clause 3.4.

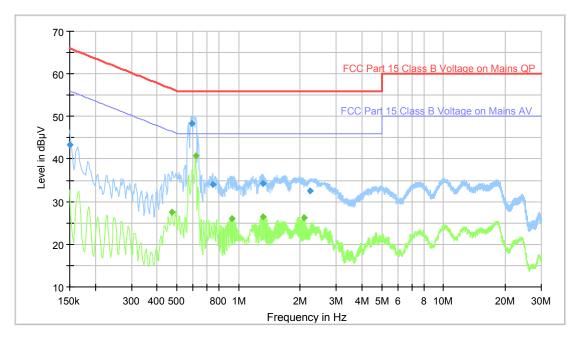
### 5.3 Measurement uncertainty

Continuous conducted disturbances with AMN in the frequency range 150 kHz to 30 MHz

± 3.3 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2:2011. The measurement uncertainty is given with a confidence of 95 %.





Diagram, Peak and Average overview sweep, with driver ICPSLC24-10NA-IL-1

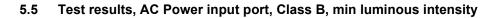
### Measurement results, Quasi-peak, Class B

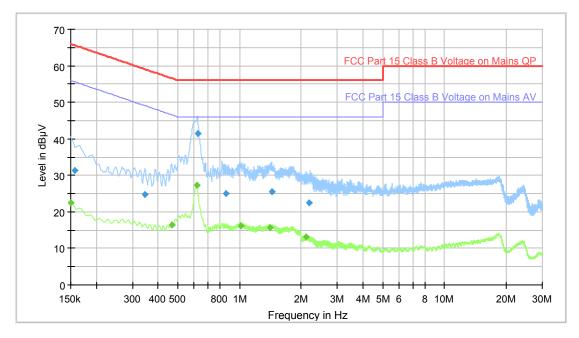
| Frequency<br>[MHz] | Result<br>[dBµV] | Limit<br>[dBµV] | Line<br>L/N | Margin<br>[dB] |
|--------------------|------------------|-----------------|-------------|----------------|
| 0.591              | 48.3             | 56.0            | L           | 7.7            |
| 0.749              | 34.0             | 56.0            | L           | 22.0           |
| 1.313              | 34.4             | 56.0            | L           | 21.6           |

All other measured disturbances have a margin of more than 20 dB to the limits.

### Measurement results, Average, Class B

| Frequency<br>[MHz] | Result<br>[dBµV] | Limit<br>[dBµV] | Line<br>L/N | Margin<br>[dB] |
|--------------------|------------------|-----------------|-------------|----------------|
| 0.474              | 27.6             | 46.4            | L           | 18.8           |
| 0.618              | 40.7             | 46.0            | L           | 5.3            |
| 0.926              | 26.0             | 46.0            | L           | 20.0           |
| 1.315              | 26.5             | 46.0            | L           | 19.5           |
| 2.076              | 26.3             | 46.0            | L           | 19.7           |





#### Diagram, Peak and Average overview sweep, with driver ICPSLC24-10NA-IL-1

#### Measurement results, Quasi-peak, Class B

| Frequency | Result | Limit  | Line | Margin |
|-----------|--------|--------|------|--------|
| [MHz]     | [dBµV] | [dBµV] | L/N  | [dB]   |
| 0.625     | 41.3   | 56.0   | L    | 14.7   |

All other measured disturbances have a margin of more than 20 dB to the limits.

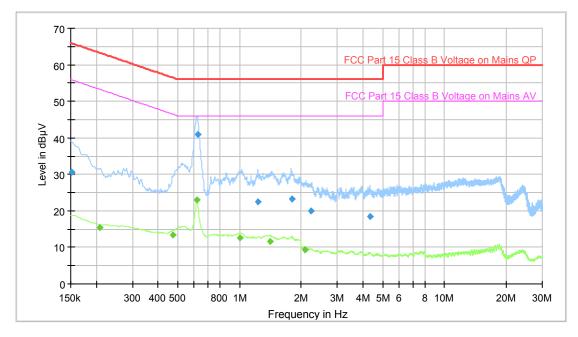
### Measurement results, Average, Class B

| Frequency | Result | Limit  | Line | Margin |
|-----------|--------|--------|------|--------|
| [MHz]     | [dBµV] | [dBµV] | L/N  | [dB]   |
| 0.620     | 27.4   | 46.0   | L    |        |

All other measured disturbances have a margin of more than 20 dB to the limits.

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### 5.6 Test results, AC Power input port, Class B, stand by



#### Diagram, Peak and Average overview sweep, with driver ICPSLC24-10NA-IL-1

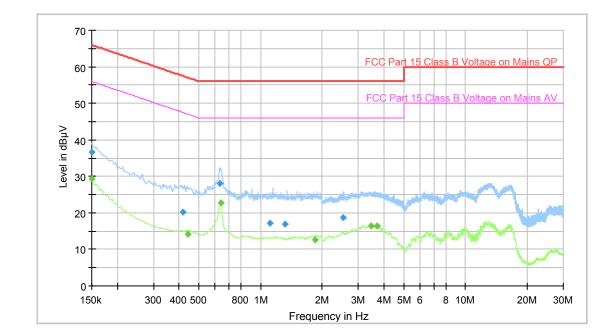
#### Measurement results, Quasi-peak, Class B

| Frequency | Result | Limit  | Line | Margin |
|-----------|--------|--------|------|--------|
| [MHz]     | [dBµV] | [dBµV] | L/N  | [dB]   |
| 0.625     | 40.9   | 56.0   | L    | 15.1   |

All other measured disturbances have a margin of more than 20 dB to the limits.

### Measurement results, Average, Class B

All measured disturbances have a margin of more than 20 dB to the limits.



### 5.7 Test results, AC Power input port, Class B, max luminous intensity

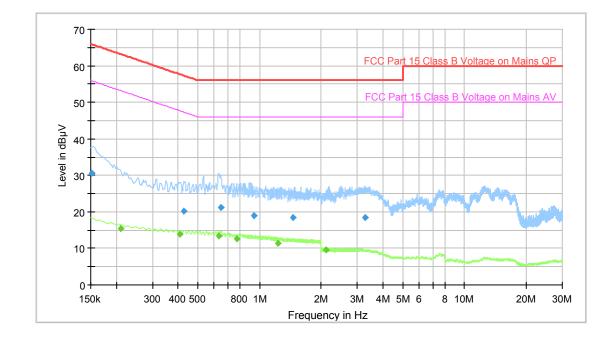
Diagram, Peak and Average overview sweep, with driver ICPSLC24-30NA-IL-1

### Measurement results, Quasi-peak, Class B

All measured disturbances have a margin of more than 20 dB to the limits.

### Measurement results, Average, Class B

All measured disturbances have a margin of more than 20 dB to the limits.



### 5.8 Test results, AC Power input port, Class B, min luminous intensity

#### Diagram, Peak and Average overview sweep, with driver ICPSLC24-30NA-IL-1

### Measurement results, Quasi-peak, Class B

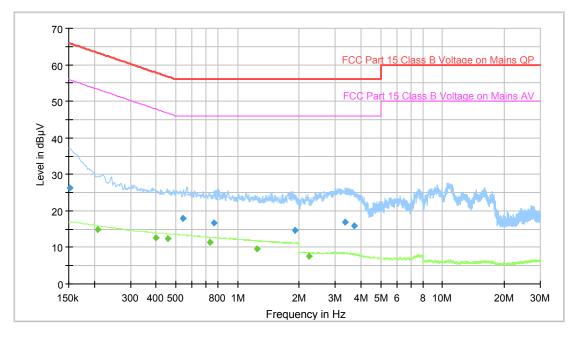
All measured disturbances have a margin of more than 20 dB to the limits.

### Measurement results, Average, Class B

All measured disturbances have a margin of more than 20 dB to the limits.

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### 5.9 Test results, AC Power input port, Class B, stand by



#### Diagram, Peak and Average overview sweep, with driver ICPSLC24-30NA-IL-1

### Measurement results, Quasi-peak, Class B

All measured disturbances have a margin of more than 20 dB to the limits.

### Measurement results, Average, Class B

All measured disturbances have a margin of more than 20 dB to the limits.

Result  $[dB\mu V]$  = Analyser reading  $[dB\mu V]$  + cable loss [dB] + LISN insertion loss [dB]

### 5.10 Test equipment

| Equipment type | Manufacturer | Model     | Inv. No. | Last Cal. date | Cal. interval |
|----------------|--------------|-----------|----------|----------------|---------------|
|                |              |           |          |                |               |
| Measurement    | Rohde &      | EMC32 -   |          |                |               |
| software       | Schwarz      | v10.50.00 |          |                |               |
| Receiver       | Rohde &      | ESU 8     | 12866    | 06-2019        | 1 year        |
|                | Schwarz      |           |          |                | -             |
| AMN / LISN     | Rohde &      | ESH3-Z5   | 2728     | 06-2019        | 1 year        |
|                | Schwarz      |           |          |                | ,             |
| Pulse limiter  | Rohde &      | ESH3-Z2   | 4623     | 05-2019        | 1 year        |
|                | Schwarz      |           |          |                | ý             |
| Coaxial cable  | Huber+Suhner | RG 213/U  | 9815     | 06-2019        | 1 year        |
| Coaxial cable  | Suhner       | G03232    | 9701     | 06-2019        | 1 year        |
|                |              | D-01      |          |                |               |
|                |              |           |          |                |               |
|                |              |           |          |                |               |

### 6. RADIATED RF EMISSION IN THE FREQUENCY-RANGE 30 MHZ – 1 GHZ

### 6.1 Operating environment

| Date of test:  | Temperature: | Relative Humidity: |
|----------------|--------------|--------------------|
| April 23, 2020 | 19 [°C]      | 28 [%]             |

#### 6.2 Test setup and test procedure

The test method is in accordance with ANSI C63.4. The EUT was set up according to the standard

The EUT was placed on an insulating support 0.8 m above the turntable which is part of the reference ground plane.

Overview sweeps were performed with the measurement receiver in max-hold mode and the peak detector activated in the frequency-range 30 – 1000 MHz

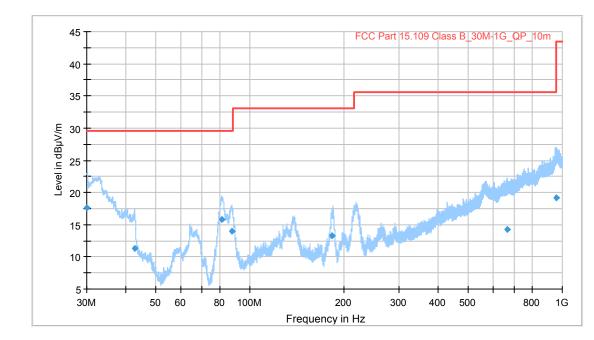
### 6.3 Test conditions

| <b>Test setup:</b><br>Test receiver set-up: | 30 – 1000 MH            | z                          |           |
|---|-------------------------|----------------------------|-----------|
| Preview test:<br>Final test:                | Peak,<br>Quasi-Peak,    | RBW 120 kHz<br>RBW 120 kHz | VBW 1 MHz |
| Measuring distance:                         | 10 m                    |                            |           |
| Measuring angle:<br>Antenna                 | 0 – 359°                |                            |           |
| Height above ground plane:                  | 1 – 4 m                 |                            |           |
| Polarisation:<br>Type:                      | Vertical and H<br>Bilog | orizontai                  |           |

### 6.4 Measurement uncertainty

Measurement uncertainty for radiated disturbance Uncertainty for the frequency range 30 to 1000 MHz at 10 m ± 5.1 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2:2011. The measurement uncertainty is given with a confidence of 95 %.



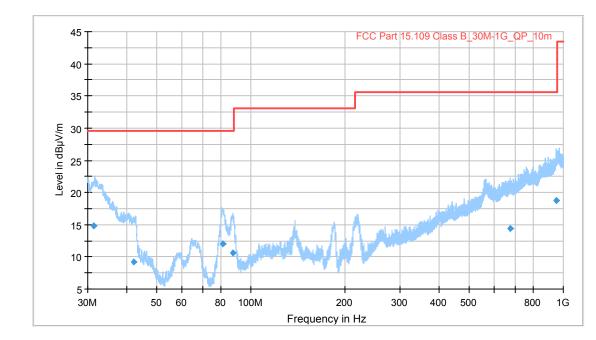
#### 6.5 Test results, 30 – 1000 MHz, FCC Class B, max luminous intensity

Diagram, Peak overview sweep, 30 - 1000 MHz at 10 m, with driver ICPSLC24-10NA-IL-1.

| Frequency<br>[MHz] | Result<br>[dBµV/m] | Limit<br>[dBµV/m] | Polarization<br>H/V | Margin<br>[dB] |
|--------------------|--------------------|-------------------|---------------------|----------------|
| 30.000             | 17.7               | 29.5              | V                   | 11.8           |
| 42.690             | 11.3               | 29.5              | V                   | 18.2           |
| 81.540             | 15.8               | 29.5              | V                   | 13.7           |
| 87.180             | 14.1               | 29.5              | V                   | 15.4           |
| 183.600            | 13.3               | 33.0              | V                   | 19.7           |
| 665.550            | 14.2               | 35.5              | V                   | 21.3           |
| 958.410            | 19.2               | 35.5              | V                   | 16.3           |

### Measurement results, Quasi Peak, FCC Class B

The EUT also fulfil the limit for ICES-005, see limit table clause 3.5 in this test report.



### 6.6 Test results, 30 – 1000 MHz, FCC Class B, min luminous intensity

Diagram, Peak overview sweep, 30 - 1000 MHz at 10 m, with driver ICPSLC24-10NA-IL-1.

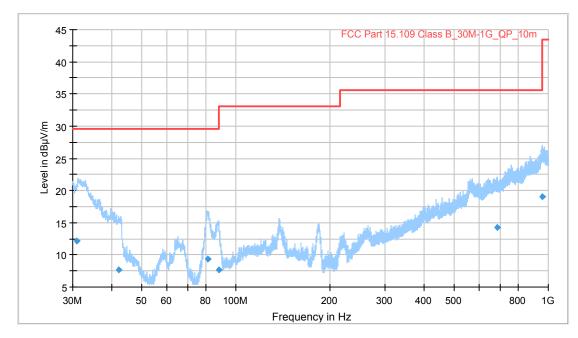
| Frequency<br>[MHz] | Result<br>[dBµV/m] | Limit<br>[dBµV/m] | Polarization<br>H/V | Margin<br>[dB] |
|--------------------|--------------------|-------------------|---------------------|----------------|
| 31.290             | 14.8               | 29.5              | V                   | 14.7           |
| 42.270             | 9.3                | 29.5              | V                   | 20.2           |
| 81.120             | 12.1               | 29.5              | V                   | 17.4           |
| 87.630             | 10.6               | 29.5              | V                   | 18.9           |
| 677.640            | 14.4               | 35.5              | V                   | 21.1           |
| 949.080            | 18.8               | 35.5              | Н                   | 16.7           |

### Measurement results, Quasi Peak, FCC Class B

The EUT also fulfil the limit for ICES-005, see limit table clause 3.5 in this test report.

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### 6.7 Test results, 30 – 1000 MHz, FCC Class B, stand by

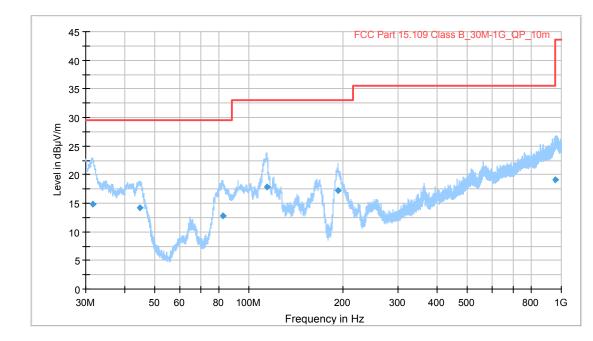


Diagram, Peak overview sweep, 30 - 1000 MHz at 10 m, with driver ICPSLC24-10NA-IL-1.

| Frequency<br>[MHz] | Result<br>[dBµV/m] | Limit<br>[dBµV/m] | Polarization<br>H/V | Margin<br>[dB] |
|--------------------|--------------------|-------------------|---------------------|----------------|
| 30.930             | 12.2               | 29.5              | V                   | 17.3           |
| 42.090             | 7.7                | 29.5              | V                   | 21.8           |
| 81.510             | 9.3                | 29.5              | V                   | 20.2           |
| 87.960             | 7.7                | 29.5              | V                   | 21.8           |
| 683.850            | 14.3               | 35.5              | V                   | 21.2           |
| 956.310            | 19.1               | 35.5              | V                   | 16.4           |

### Measurement results, Quasi Peak, FCC Class B

The EUT also fulfil the limit for ICES-005, see limit table clause 3.5 in this test report.



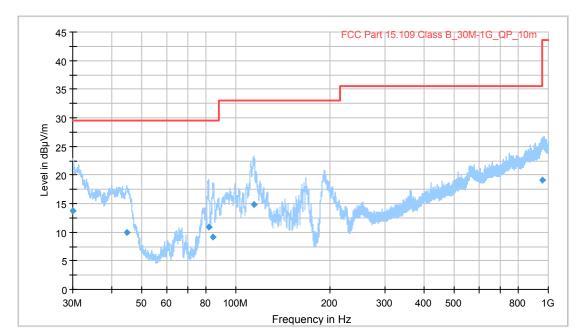
#### 6.8 Test results, 30 – 1000 MHz, FCC Class B, max luminous intensity

Diagram, Peak overview sweep, 30 - 1000 MHz at 10 m, with driver ICPSLC24-30NA-IL-1.

| Frequency<br>[MHz] | Result<br>[dBµV/m] | Limit<br>[dBµV/m] | Polarization<br>H/V | Margin<br>[dB] |
|--------------------|--------------------|-------------------|---------------------|----------------|
| 31.650             | 14.8               | 29.5              | V                   | 14.7           |
| 44.580             | 14.1               | 29.5              | V                   | 15.4           |
| 82.230             | 12.8               | 29.5              | V                   | 16.7           |
| 114.030            | 17.8               | 33.0              | V                   | 15.2           |
| 192.450            | 17.2               | 33.0              | V                   | 15.8           |
| 956.730            | 19.1               | 35.5              | Н                   | 16.4           |

### Measurement results, Quasi Peak, FCC Class B

The EUT also fulfil the limit for ICES-005, see limit table clause 3.5 in this test report.



### 6.9 Test results, 30 – 1000 MHz, FCC Class B, min luminous intensity

Diagram, Peak overview sweep, 30 – 1000 MHz at 10 m, with driver ICPSLC24-30NA-IL-1.

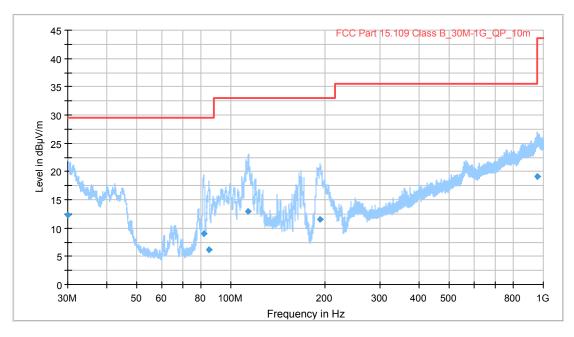
| Frequency<br>[MHz] | Result<br>[dBµV/m] | Limit<br>[dBµV/m] | Polarization<br>H/V | Margin<br>[dB] |
|--------------------|--------------------|-------------------|---------------------|----------------|
| 30.000             | 13.7               | 29.5              | V                   | 15.8           |
| 44.700             | 10.0               | 29.5              | V                   | 19.5           |
| 81.720             | 11.0               | 29.5              | V                   | 18.5           |
| 84.600             | 9.1                | 29.5              | V                   | 20.4           |
| 113.910            | 14.9               | 33.0              | V                   | 18.1           |
| 956.940            | 19.1               | 35.5              | V                   | 16.4           |

### Measurement results, Quasi Peak, FCC Class B

The EUT also fulfil the limit for ICES-005, see limit table clause 3.5 in this test report.

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### 6.10 Test results, 30 - 1000 MHz, FCC Class B, stand by



Diagram, Peak overview sweep, 30 - 1000 MHz at 10 m, with driver ICPSLC24-30NA-IL-1.

| Frequency<br>[MHz] | Result<br>[dBµV/m] | Limit<br>[dBµV/m] | Polarization<br>H/V | Margin<br>[dB] |
|--------------------|--------------------|-------------------|---------------------|----------------|
| 30.000             | 12.3               | 29.5              | V                   | 17.2           |
| 81.840             | 9.0                | 29.5              | V                   | 20.5           |
| 84.990             | 6.1                | 29.5              | V                   | 23.4           |
| 113.640            | 13.0               | 33.0              | V                   | 20.0           |
| 192.360            | 11.5               | 33.0              | V                   | 21.5           |
| 957.780            | 19.2               | 35.5              | V                   | 16.3           |

### Measurement results, Quasi Peak, FCC Class B

The EUT also fulfil the limit for ICES-005, see limit table clause 3.5 in this test report.

Result  $[dB\mu V/m]$  = Analyser reading  $[dB\mu V]$  + Antenna factor [1/m] - Amplifier gain [dB] + Cable loss [dB]

### 6.11 Test equipment

| Equipment type    | Manufacturer  | Model       | Inv. No. | Last Cal.<br>date | Cal. interval |
|-------------------|---------------|-------------|----------|-------------------|---------------|
| Measurement       | Rohde&Schwarz | EMC32 -     |          |                   |               |
| software          | ļ             | 10.15.00    |          |                   |               |
| Measurement       | Rohde&Schwarz | ESW 44      | 33890    | 06-2019           | 1 year        |
| Receiver          |               |             |          |                   |               |
| Preamplifier      | -             | AM1331      | S7992    | 24-04-2019        | 1 year        |
| Antenna           | Teseq         | CBL6111D    | 34200    | 03-2020           | 3 year        |
| Measurement cable | Huber&Suhner  | Sucoflex106 | 39122    | 03-2020           | 1 year        |
| Measurement cable | Rosenberger   | LA5-S003-   | 39164    | 01-2020           | 1 year        |
|                   | _             | 7000        |          |                   |               |