

Test report No:  
79798REM.004A1

## Test report

**FCC Rules and Regulations CFR 47, Part 15, Subpart B and C (15.207)  
(10-1-23 Edition) & ICES-003 Issue 7 (October 2020)**

|                                           |                                                                                                                                                                                                                    |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (*) Identification of item tested         | Non-invasive ventilation (NIV) device                                                                                                                                                                              |
| (*) Trademark                             | ResMed                                                                                                                                                                                                             |
| (*) Model and /or type reference          | AIR11M1TA                                                                                                                                                                                                          |
| Other identification of the product       | FCC ID: 2ACHL-AIR11M1TA<br>IC: 9103A-AIR11M1TA                                                                                                                                                                     |
| (*) Features                              | LTE Cat-M1, BLE<br>HW version: R510-718<br>SW version: SW04600                                                                                                                                                     |
| Manufacturer                              | ResMed Pty Ltd<br>1 Elizabeth Macarthur Drive, Bella Vista, NSW, 2153,<br>Australia                                                                                                                                |
| Test method requested, standard           | FCC Rules and Regulations CFR 47, Part 15, Subpart B<br>and C (15.207) (10-1-23 Edition) & ICES-003 Issue 7<br>(October 2020)                                                                                      |
| Summary                                   | IN COMPLIANCE                                                                                                                                                                                                      |
| Approved by (name / position & signature) | José Manuel Gómez<br>EMC Consumer & RF<br>Lab. Manager<br> Firmado digitalmente por 53680346W JOSE MANUEL GOMEZ (C:A29507456) |
| Date of issue                             | 2026-03-26                                                                                                                                                                                                         |
| Report template No                        | FDT08_25<br>(*) "Data provided by the client"                                                                                                                                                                      |



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## Acronyms

| Acronym ID | Acronym Description               |
|------------|-----------------------------------|
| Code       | EMC Test Code                     |
| Freq Rng   | Frequency Range                   |
| Line       | Conducted Emissions - Tested Line |
| MP         | Measurement Point                 |
| OM         | Operation Mode                    |
| S/         | Sample                            |
| V          | Verdict                           |

## Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.A.U. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.A.U. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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## General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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## Uncertainty

Uncertainty (factor  $k=2$ ) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

The total uncertainty of the measurement system for the measured conducted disturbance characteristics of EUT from 150 kHz to 30 MHz is  $I = \pm 3,9$  dB for quasi-peak measurements,  $I = \pm 3,2$  dB for peak measurements ( $k = 2$ ).

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 30 MHz to 1000 MHz is  $I = \pm 4,9$  dB for quasi-peak measurements,  $I = \pm 4,6$  dB for peak measurements ( $k = 2$ ).

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 1000 MHz to 12.75 GHz is  $U = \pm 2,6$  dB for peak and average measurements ( $k = 2$ ).

## Data provided by the client

---

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consists of a Non-invasive ventilation (NIV) device. NIV Device with Integrated Cellular and Bluetooth Connectivity.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results. The laboratory is not responsible for such information and it is not covered by accreditation.

## Usage of samples

Samples undergoing test have been selected by: The client.

| Id            | Control Number | Description                                 | Model     | Serial N°   | Date of Reception | Application        |
|---------------|----------------|---------------------------------------------|-----------|-------------|-------------------|--------------------|
| S/01          | 79798_41.1     | AC/DC                                       | --        | 23022259503 | 2025-04-02        | Element Under Test |
| S/01          | 79798_40.1     | Powe Cord                                   | --        | --          | 2025-04-02        | Auxiliary Element  |
| S/01,<br>S/02 | 79798_38.1     | AirCurve 11<br>ST-A North<br>Ame.           | --        | 22242275641 | 2025-04-02        | Element Under Test |
| S/01,<br>S/02 | 79798_39.1     | Water<br>Deposit                            | --        | --          | 2025-04-02        | Auxiliary Element  |
| S/01,<br>S/02 | 79798_42.1     | Low Pressure<br>Oxygen<br>Connector         | --        | --          | 2025-04-02        | Auxiliary Element  |
| S/01,<br>S/02 | 79798_43.1     | Tube                                        | --        | --          | 2025-04-02        | Auxiliary Element  |
| S/03          | 79798_38.1     | Non-invasive<br>ventilation<br>(NIV) device | AIR11M1TA | 22242275641 | 2025-04-02        | Element Under Test |
| S/03,<br>S/04 | 79798_39.1     | Water<br>Deposit                            | --        | --          | 2025-04-02        | Auxiliary Element  |
| S/03,<br>S/04 | 79798_41.1     | AC/DC                                       | 390001    | 23022259503 | 2025-04-02        | Auxiliary Element  |
| S/04          | 79798_1.1      | Non-invasive<br>ventilation<br>(NIV) device | AIR11M1TA | 22242275638 | 2025-04-02        | Element Under Test |
| S/04          | 79798_62.1     | Can cable                                   | --        | --          | 2025-07-15        | Auxiliary Element  |
| S/04          | 79798_63.1     | Can USB<br>Converter                        | --        | --          | 2025-07-15        | Auxiliary Element  |

Notes referenced to samples during the project:

## Test sample description

|                                               |                           |                                   |                      |          |                                   |     |     |
|-----------------------------------------------|---------------------------|-----------------------------------|----------------------|----------|-----------------------------------|-----|-----|
| Ports..... :                                  | Port name and description | Cable                             |                      |          |                                   |     |     |
|                                               |                           | Specified max length [m]          | Attached during test | Shielded | Coupled to patient <sup>(3)</sup> |     |     |
|                                               | Power                     | .....                             | [X]                  | [ ]      | [ ]                               |     |     |
|                                               | .....                     | .....                             | [ ]                  | [ ]      | [ ]                               |     |     |
|                                               | .....                     | .....                             | [ ]                  | [ ]      | [ ]                               |     |     |
|                                               | .....                     | .....                             | [ ]                  | [ ]      | [ ]                               |     |     |
|                                               | .....                     | .....                             | [ ]                  | [ ]      | [ ]                               |     |     |
|                                               | .....                     | .....                             | [ ]                  | [ ]      | [ ]                               |     |     |
| Supplementary information to the ports..... : | .....                     |                                   |                      |          |                                   |     |     |
| Rated power supply .....                      | Voltage and Frequency     |                                   | Reference poles      |          |                                   |     |     |
|                                               |                           |                                   | L1                   | L2       | L3                                | N   | PE  |
|                                               | [X]                       | AC: 100-240V~50-60 Hz<br>1.0-1.5A | [X]                  | [ ]      | [ ]                               | [X] | [ ] |
|                                               | [X]                       | AC: 115V~400Hz 1.5A               | [X]                  | [ ]      | [ ]                               | [X] | [ ] |
|                                               | [X]                       | DC: 12V (DC-DC for Vehicle Use)   |                      |          |                                   |     |     |
|                                               | [X]                       | DC: 24V (DC-DC for Vehicle Use)   |                      |          |                                   |     |     |
| Rated Power .....                             | 24 VDC, 3.75A             |                                   |                      |          |                                   |     |     |
| Clock frequencies.....                        | N/A                       |                                   |                      |          |                                   |     |     |
| Other parameters .....                        | 390001 (PSU model number) |                                   |                      |          |                                   |     |     |
| Software version .....                        | SW04600                   |                                   |                      |          |                                   |     |     |
| Hardware version .....                        | R510-718                  |                                   |                      |          |                                   |     |     |
| Dimensions in cm (W x H x D) .....            | 140 mm x 280 mm x 94.5 mm |                                   |                      |          |                                   |     |     |
| Mounting position .....                       | [X]                       | Table top equipment               |                      |          |                                   |     |     |
|                                               | [ ]                       | Wall/Ceiling mounted equipment    |                      |          |                                   |     |     |
|                                               | [ ]                       | Floor standing equipment          |                      |          |                                   |     |     |
|                                               | [ ]                       | Hand-held equipment               |                      |          |                                   |     |     |

|                                               |                             |               |              |
|-----------------------------------------------|-----------------------------|---------------|--------------|
|                                               | [ ]                         | Other: .....  |              |
| Modules/parts.....:                           | Module/parts of test item   | Type          | Manufacturer |
|                                               | Cellular                    | EXS62-W       | Telit        |
|                                               | Bluetooth SoC               | EFR32BG2<br>2 | SiLabs       |
|                                               | .....                       | .....         | .....        |
|                                               | .....                       | .....         | .....        |
| Accessories (not part of the test item) ..... | Description                 | Type          | Manufacturer |
|                                               | Power Supply Unit 390001    | N/A           | ResMed       |
|                                               | Power Supply Unit R390-7330 | N/A           | ResMed       |
|                                               | .....                       | .....         | .....        |
|                                               | .....                       | .....         | .....        |
|                                               | .....                       | .....         | .....        |
|                                               | .....                       | .....         | .....        |
| Documents as provided by the applicant.....:  | Description                 | File name     | Issue date   |
|                                               | .....                       | .....         | .....        |
|                                               | .....                       | .....         | .....        |
|                                               | .....                       | .....         | .....        |
|                                               | .....                       | .....         | .....        |

<sup>(3)</sup> Only for Medical Equipment

## Identification of the client

ResMed Pty Ltd  
1 Elizabeth Macarthur Drive, Bella Vista, NSW, 2153, Australia

## Testing period and place

|               |                                        |
|---------------|----------------------------------------|
| Test Location | DEKRA Testing and Certification S.A.U. |
| Date (start)  | 2025-05-08                             |
| Date (finish) | 2025-08-01                             |

## Document history

| Report number  | Date       | Description                                                                                                                                                                               |
|----------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 79798REM.004   | 2026-02-20 | First release                                                                                                                                                                             |
| 79798REM.004A1 | 2026-03-26 | First amendment.<br>Conducted emission graphs are now reported in communication mode in accordance with FCC 15.207.<br>This report cancels and replaces the previous report 79798REM.004. |

## Environmental conditions

---

In the control chamber, the following limits were not exceeded during the test:

|                   |                                   |
|-------------------|-----------------------------------|
| Temperature       | Min. = 15 °C<br>Max. = 35 °C      |
| Relative humidity | Min. = 30 %<br>Max. = 75 %        |
| Air pressure      | Min. = 860mbar<br>Max. = 1060mbar |

In the semianechoic chamber, the following limits were not exceeded during the test.

|                   |                                   |
|-------------------|-----------------------------------|
| Temperature       | Min. = 15 °C<br>Max. = 35 °C      |
| Relative humidity | Min. = 30 %<br>Max. = 75 %        |
| Air pressure      | Min. = 860mbar<br>Max. = 1060mbar |

In the chamber for conducted measurements, the following limits were not exceeded during the test:

|                   |                                   |
|-------------------|-----------------------------------|
| Temperature       | Min. = 15 °C<br>Max. = 35 °C      |
| Relative humidity | Min. = 30 %<br>Max. = 60 %        |
| Air pressure      | Min. = 860mbar<br>Max. = 1060mbar |

## Remarks and comments

The tests have been performed by the technical personnel: Antonio Ruiz Sánchez and Fernando Chito Solis.

## Testing verdicts

|                |     |
|----------------|-----|
| Fail           | F   |
| Inconclusive   | I   |
| Not applicable | N/A |
| Not measured   | N/M |
| Pass           | P   |
| Partial Passed | P*  |

## List of equipment used during the test

| Control No. | Equipment                                | Model        | Manufacturer                | Next Calibration |
|-------------|------------------------------------------|--------------|-----------------------------|------------------|
| 08866       | EMI TEST RECEIVER 2Hz-44GHz              | ESW44        | ROHDE AND SCHWARZ           | 2026-06-12       |
| 05862       | EMI TEST RECEIVER 9kHz-7GHz              | ESR7         | ROHDE AND SCHWARZ           | 2027-04-04       |
| 06126       | ETHERNET TEMPERATURE AND HUMIDITY LOGGER | HWg-STE      | HW GROUP                    | 2026-04-22       |
| 06132       | ETHERNET TEMPERATURE AND HUMIDITY LOGGER | HWg-STE      | HW GROUP                    | 2026-04-28       |
| 04612       | HORN ANTENNA 1-18GHz                     | BBHA 9120 D  | SCHWARZBECK MESS-ELEKTRONIK | 2027-10-15       |
| 05641       | HYBRID BILOG ANTENNA 30MHz-6GHz          | 3142E        | ETS LINDGREN                | 2027-10-23       |
| 09360       | PRE-AMPLIFIER G>40dB 1-18 GHz            | BLMA 0118-1M | BONN ELEKTRONIK             | 2025-08-05       |
| 06064       | SEMIANECHOIC ABSORBER LINED CHAMBER      | SAC-3        | Frankonia                   | --               |
| 06329       | SHIELDED ROOM                            | --           | FRANKONIA                   | --               |
| 04848       | SOFTWARE FOR EMC/RF TESTING              | EMC32        | ROHDE AND SCHWARZ           | --               |
| 04573       | TEMPERATURE AND HUMIDITY PROBE           | HWg-STE      | HW GROUP                    | 2026-04-22       |
| 04679       | THREE-PHASE ARTIFICIAL V-NETWORK 32A     | PMM L3-32    | NARDA                       | 2026-03-27       |
| 05151       | TRANSIENT LIMITER 10DB N CONNECTOR       | VTSD 9561-F  | SCHWARZBECK                 | 2025-07-24       |

| Control No. | Equipment                            | Model       | Manufacturer | Next Calibration |
|-------------|--------------------------------------|-------------|--------------|------------------|
| 04679       | THREE-PHASE ARTIFICIAL V-NETWORK 32A | PMM L3-32   | 122WX30408   | 2026-03-27       |
| 05151       | TRANSIENT LIMITER 10DB N CONNECTOR   | VTSD 9561-F | SCHWARZBECK  | 2026-09-04       |

## Summary

| Test Specification                                                                                                                                                                                                                                                                                                   | Requirement – Test case                                | Verdict | Remark |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------|--------|
| FCC CFR 47, Part 15, Subpart B (10-1-23 Edition) & ICES-003 Issue 7 (October 2020)                                                                                                                                                                                                                                   | RE Radiated emission.<br>Electromagnetic field measure | P       | (1)    |
| FCC CFR 47, Part 15, Subpart B and Subpart C (15.207) (10-1-23 Edition) & ICES-003 Issue 7 (October 2020)                                                                                                                                                                                                            | CE Continuous conducted emission                       | P       | (2)    |
| <u>Supplementary information and remarks:</u><br>(1) Test required only to the 5th harmonics of the maximum internal work frequency in the EUT..<br>(2) According to Subpart C (15.207), this test is applicable for an intentional radiator that is designed to be connected to the public utility (AC) power line. |                                                        |         |        |

## Appendix A: Test results

# Appendix A content

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## Description of the operation modes

---

The operation modes described in this paragraph constitute a functionality of the sample under test for itself.

The operation modes used by the samples to which the present report refers, are shown in the following table:

| Id                   | Description                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OM/01                | EUT ON. Respirator activated. Airplane mode activated. Power supply: 115Vac 60Hz.                                                                                                                                   |
| OM/02                | EUT ON. Respirator activated. Airplane mode activated. Power supply: 115Vac 400Hz.                                                                                                                                  |
| OM/03                | EUT ON. Respirator activated. Airplane mode activated. Power supply: 12Vdc.                                                                                                                                         |
| OM/04                | EUT ON. Respirator activated. Airplane mode activated. Power supply: 24Vdc.                                                                                                                                         |
| OM/05 <sup>(1)</sup> | EUT ON. Active treatment set to maximum power and applicator air tube at maximum tube temperature. Bluetooth without communication established. MS in traffic mode. LTE Cat. M1 Band 3. Power supply: 230Vac, 50Hz. |
| OM/06 <sup>(1)</sup> | EUT ON. Active treatment set to maximum power and applicator air tube at maximum tube temperature. Bluetooth communication established. Power supply: 230Vac, 50Hz.                                                 |

(1) Operation modes selected as worst case-scenario for communication mode in the Conducted Emission Test.

# Test standards version applied

The product standards and test standards applied for each test cases are shown in the following table:

| Product Test Standard                                                                             | Test standard     | Requirement – Test case          |
|---------------------------------------------------------------------------------------------------|-------------------|----------------------------------|
| FCC CFR 47, Part 15, Subpart B (10-1-23 Edition) & ICES-003 Issue 7 (October 2020)                | ANSI C63.4 (2014) | RE Radiated emission.            |
| FCC CFR 47, Part 15, Subpart B and C (15.207) (10-1-23 Edition) & ICES-003 Issue 7 (October 2020) | ANSI C63.4 (2014) | CE Continuous conducted emission |

# Test Cases Details

## FCC 47 CFR Part 15B CE Continuous conducted emission

### Limits

#### Limits of interference Class B

The applied limit for continuous conducted emissions in power leads, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B, Secs. 15.107, Subpart C 15.207 (10-1-23 Edition) & ICES-003 Issue 7 (October 2020), in the frequency range 0,15 to 30 MHz, for Class B equipment was:

| Frequency range<br>(MHz) | Limit (dBµV) |         |
|--------------------------|--------------|---------|
|                          | Quasi-Peak   | Average |
| 0,15 to 0,5              | 66 - 56      | 56 - 46 |
| 0,5 to 5                 | 56           | 46      |
| 5 to 30                  | 60           | 50      |

### Results

| SI | OM    | Code     | Line | Freq Rng (MHz) | V |
|----|-------|----------|------|----------------|---|
| 01 | OM/01 | CE01010N | N    | [0.15, 30]     | P |
| 01 | OM/01 | CE0101L1 | L1   | [0.15, 30]     | P |
| 03 | OM/05 | CE03050N | N    | [0.15, 30]     | P |
| 03 | OM/05 | CE0305L1 | L1   | [0.15, 30]     | P |
| 04 | OM/06 | CE04060N | N    | [0.15, 30]     | P |
| 04 | OM/06 | CE0406L1 | L1   | [0.15, 30]     | P |

### Verdict

Pass

### Spectrum Analyzer Parameters:

Preview Measurements:  
Scan Test Template: FCC Part 15 Class B 150 kHz - 30 MHz

| Subrange                                  | Step Size | Detectors | IF BW | Meas. Time | Preamp |
|-------------------------------------------|-----------|-----------|-------|------------|--------|
| Receiver: [PMM 9010F]<br>150 kHz - 30 MHz | 4 kHz     | PK+; AVG  | 9 kHz | 0,01 s     | 0 dB   |

Final Measurements:  
Template for Single Meas.: Final Measurement QP

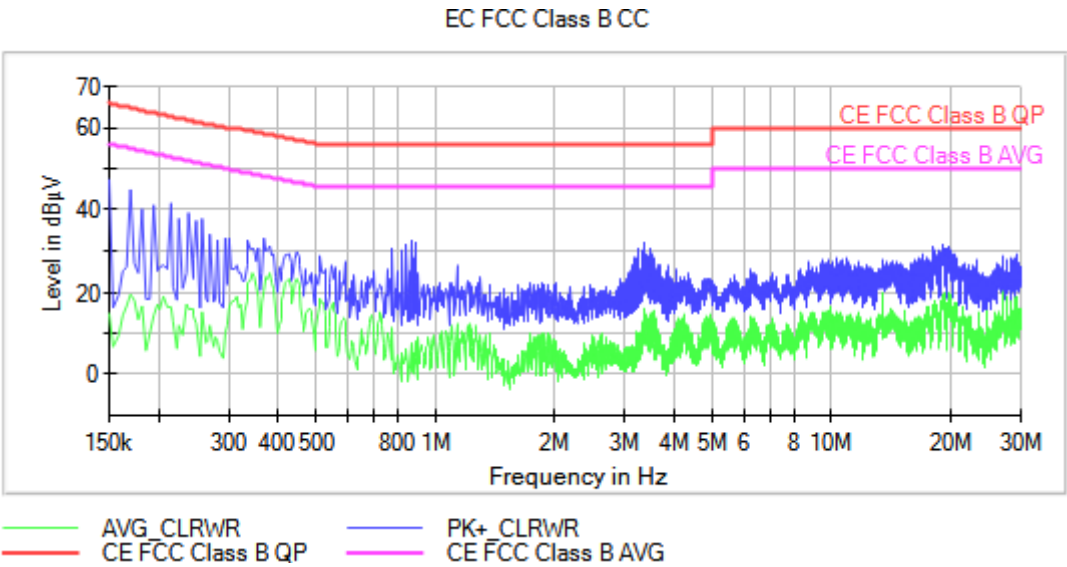
| Subrange                                  | Step Size | Detectors | IF BW | Meas. Time | Preamp |
|-------------------------------------------|-----------|-----------|-------|------------|--------|
| Receiver: [PMM 9010F]<br>150 kHz - 30 MHz | 4 kHz     | QPK ; PK+ | 9 kHz | 15 s       | 0 dB   |

Attachments

EMC Test Code = CE01010N      Conducted Emissions - Tested Line = N  
Frequency Range MHz = [0.15, 30]

Sample ID: S/01  
Operation Mode: OM/01

Images:



Tables:

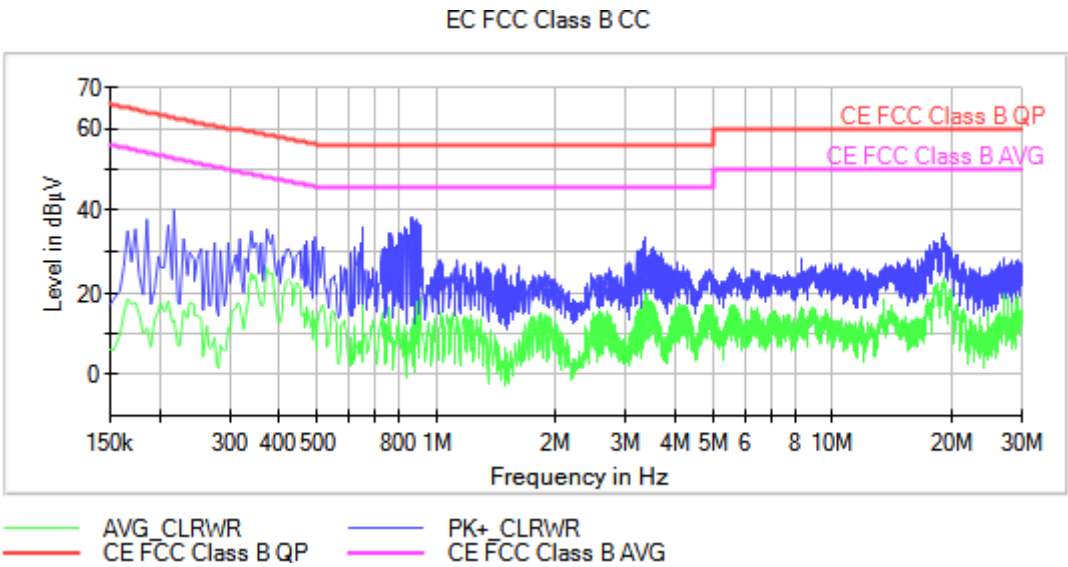
Continuous Conducted Emissions

| Frequency (MHz) | PK+ CLRWR (dBµV) | AVG CLRWR (dBµV) | Line | PE  | Corr. (dB) | Comment |
|-----------------|------------------|------------------|------|-----|------------|---------|
| 0.150000        | 47.1             | 14.4             | N    | GND | 9.8        |         |
| 0.370000        | 33.1             | 20.2             | N    | GND | 9.8        |         |
| 0.886000        | 32.0             | 8.2              | N    | GND | 10.0       |         |
| 3.390000        | 31.9             | 12.8             | N    | GND | 10.3       |         |
| 10.942000       | 28.4             | 13.3             | N    | GND | 10.2       |         |
| 19.218000       | 31.8             | 18.8             | N    | GND | 10.4       |         |

EMC Test Code = CE0101L1      Conducted Emissions - Tested Line = L1  
Frequency Range MHz = [0.15, 30]

Sample ID: S/01  
Operation Mode: OM/01

Images:



Tables:

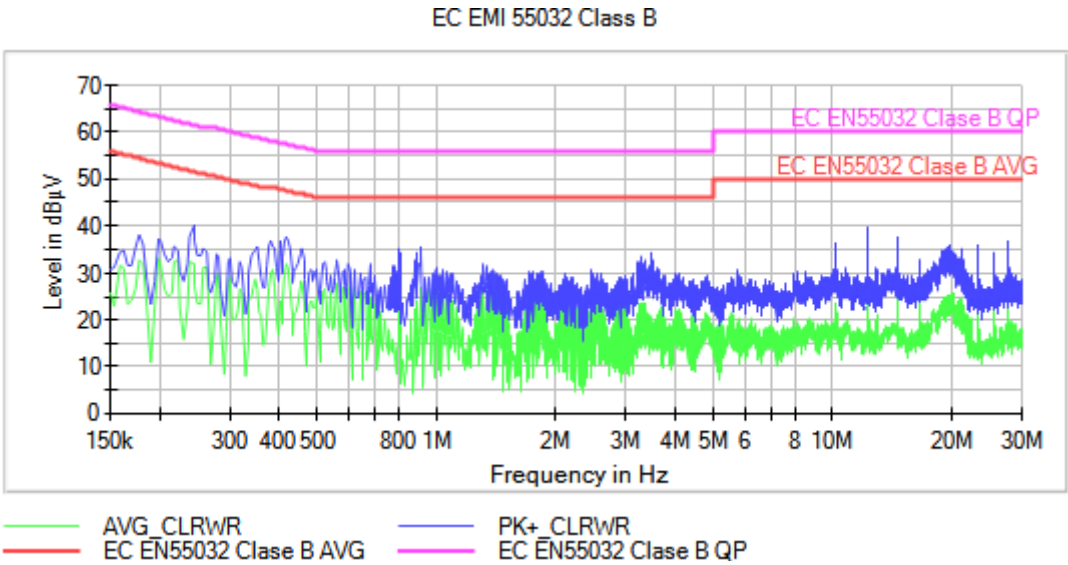
Continuous Conducted Emissions

| Frequency (MHz) | PK+ CLRWR (dBµV) | AVG CLRWR (dBµV) | Line | PE  | Corr. (dB) | Comment |
|-----------------|------------------|------------------|------|-----|------------|---------|
| 0.218000        | 40.0             | 13.4             | L1   | GND | 9.8        |         |
| 0.858000        | 38.3             | 11.0             | L1   | GND | 10.0       |         |
| 0.894000        | 38.0             | 17.8             | L1   | GND | 10.1       |         |
| 3.394000        | 33.5             | 16.1             | L1   | GND | 10.3       |         |
| 8.346000        | 28.3             | 14.9             | L1   | GND | 10.2       |         |
| 19.078000       | 34.5             | 22.1             | L1   | GND | 10.3       |         |

EMC Test Code = CE03050N      Conducted Emissions - Tested Line = N  
Frequency Range MHz = [0.15, 30]

Sample ID: S/03  
Operation Mode: OM/05

Images:



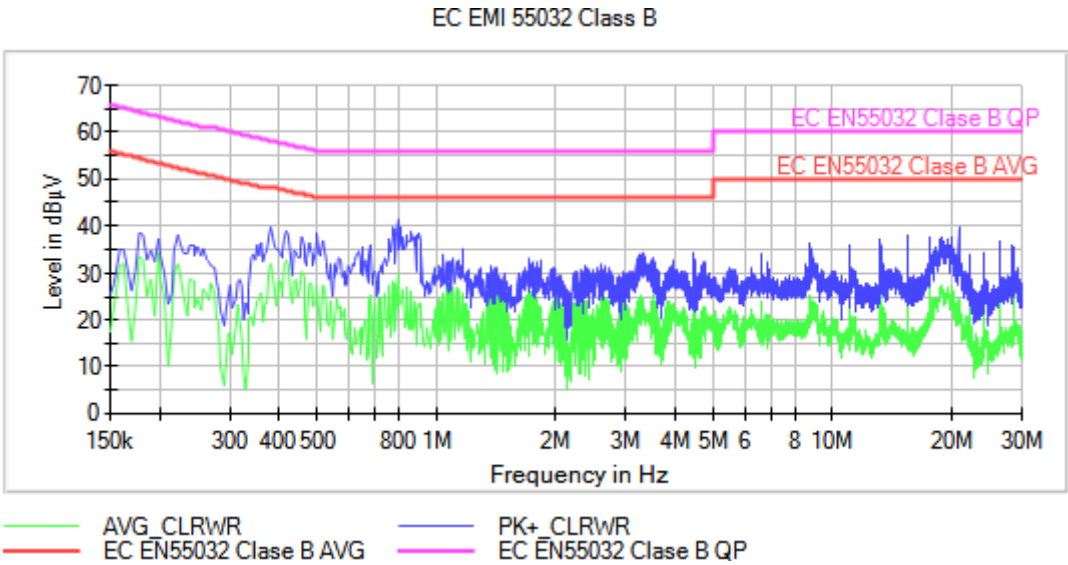
Tables:

| Frequency (MHz) | PK+_CLRWR (dBµV) | AVG_CLRWR (dBµV) | Line |
|-----------------|------------------|------------------|------|
| 0.242000        | 40.2             | 32.0             | N    |
| 0.418000        | 37.6             | 31.9             | N    |
| 0.918000        | 35.8             | 27.0             | N    |
| 3.510000        | 34.5             | 16.6             | N    |
| 12.350000       | 39.6             | 26.1             | N    |
| 14.562000       | 37.8             | 26.8             | N    |

EMC Test Code = CE0305L1      Conducted Emissions - Tested Line = L1  
Frequency Range MHz = [0.15, 30]

Sample ID: S/03  
Operation Mode: OM/05

Images:



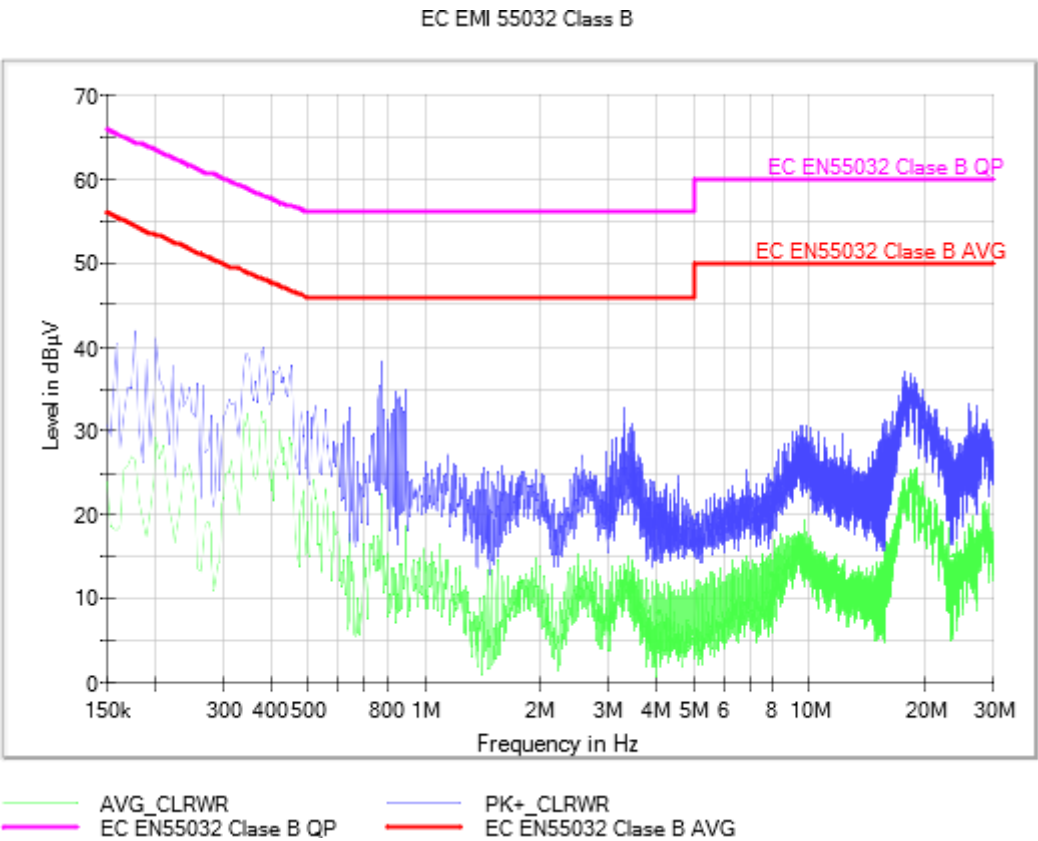
Tables:

| Frequency (MHz) | PK+_CLRWR (dBµV) | AVG_CLRWR (dBµV) | Line |
|-----------------|------------------|------------------|------|
| 0.178000        | 38.5             | 33.4             | L1   |
| 0.798000        | 41.2             | 29.8             | L1   |
| 0.910000        | 38.4             | 23.8             | L1   |
| 3.362000        | 34.4             | 23.3             | L1   |
| 8.846000        | 36.4             | 22.7             | L1   |
| 20.814000       | 39.8             | 24.3             | L1   |

EMC Test Code = CE04060N      Conducted Emissions - Tested Line = N  
Frequency Range MHz = [0.15, 30]

Sample ID: S/04  
Operation Mode: OM/06

Images:



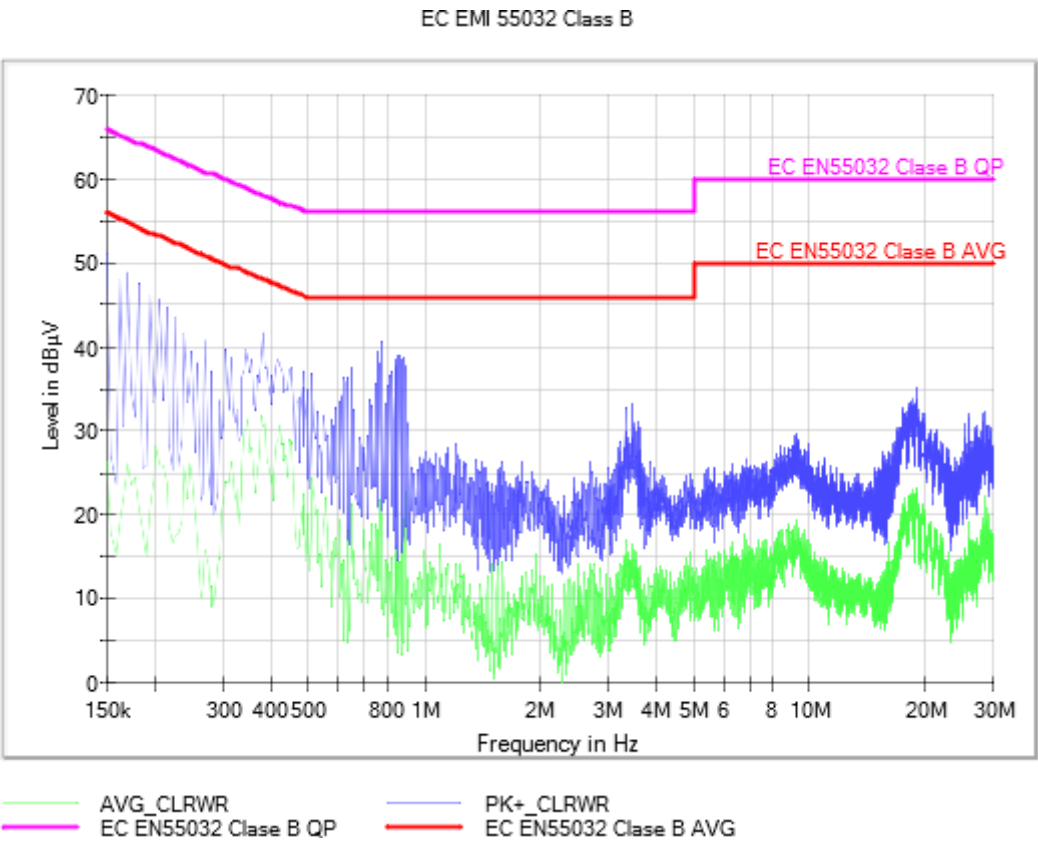
Tables:

| Frequency (MHz) | PK+_CLRWR (dBµV) | AVG_CLRWR (dBµV) | Line |
|-----------------|------------------|------------------|------|
| 0.178000        | 41.9             | 26.4             | N    |
| 0.382000        | 39.8             | 31.0             | N    |
| 0.898000        | 35.0             | 18.8             | N    |
| 3.322000        | 32.9             | 12.1             | N    |
| 9.570000        | 30.8             | 17.3             | N    |
| 17.646000       | 37.1             | 23.7             | N    |

EMC Test Code = CE0406L1      Conducted Emissions - Tested Line = L1  
Frequency Range MHz = [0.15, 30]

Sample ID: S/04  
Operation Mode: OM/06

Images:



Tables:

| Frequency (MHz) | PK+_CLRWR (dBµV) | AVG_CLRWR (dBµV) | Line |
|-----------------|------------------|------------------|------|
| 0.150000        | 51.1             | 26.2             | L1   |
| 0.382000        | 41.8             | 30.5             | L1   |
| 0.890000        | 38.9             | 19.5             | L1   |
| 3.462000        | 33.5             | 12.4             | L1   |
| 9.298000        | 29.8             | 19.5             | L1   |
| 19.054000       | 35.3             | 23.1             | L1   |

RE Radiated emission. Electromagnetic field measure

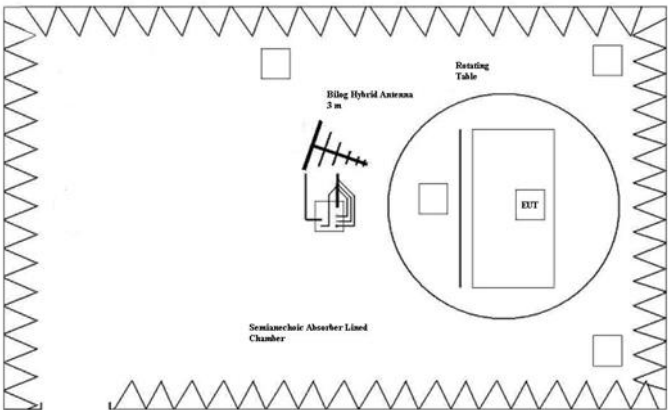
Limits of interference Class B

The applied limit for radiated emissions, 3 m distance, according to the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (10-1-23 Edition), Secs. 15.109 & ICES-003 Issue 7 (October 2020)

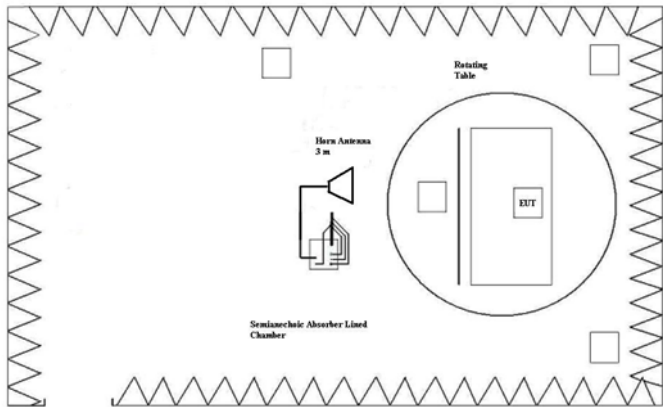
| Frequency range<br>(MHz) | FCC Part 15B        |                              | ICES-003 Issue 7    |                              | FCC Part 15B & ICES-003 Issue 7 |                              |
|--------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------------------|------------------------------|
|                          | QP Limit for 3 m    |                              | QP Limit for 3 m    |                              | PK Limit for 3 m                | AVG Limit for 3 m            |
|                          | ( $\mu\text{V/m}$ ) | ( $\text{dB}\mu\text{V/m}$ ) | ( $\mu\text{V/m}$ ) | ( $\text{dB}\mu\text{V/m}$ ) | ( $\text{dB}\mu\text{V/m}$ )    | ( $\text{dB}\mu\text{V/m}$ ) |
| 30 to 88                 | 100                 | 40                           | 100                 | 40                           | ---                             | ---                          |
| 88 to 216                | 150                 | 43.5                         | 150                 | 43.5                         | ---                             | ---                          |
| 216 to 230               | 200                 | 46                           | 200                 | 46                           | ---                             | ---                          |
| 230 to 960               | 200                 | 46                           | 224                 | 47                           |                                 |                              |
| 960 to 1000              | 500                 | 54                           | 500                 | 54                           | ---                             | ---                          |
| Above 1000               | ---                 | ---                          | ---                 | ---                          | 74                              | 54                           |

Limits according to FCC Part 15B, are equal or more stringent than those of ICES-003 Issue 7.

Setup for measurements



Setup for measurements < 1GHz.



Setup for measurements > 1GHz.

### Results

| S/ | OM    | Code     | Freq Rng (MHz) | V |
|----|-------|----------|----------------|---|
| 01 | OM/01 | RE0101LR | [30, 1000]     | P |
| 01 | OM/01 | RE0101HR | [1000, 12750]  | P |
| 01 | OM/02 | RE0102LR | [30, 1000]     | P |
| 01 | OM/02 | RE0102HR | [1000, 12750]  | P |
| 02 | OM/03 | RE0203LR | [30, 1000]     | P |
| 02 | OM/03 | RE0203HR | [1000, 12750]  | P |
| 02 | OM/04 | RE0204LR | [30, 1000]     | P |
| 02 | OM/04 | RE0204HR | [1000, 12750]  | P |

### Verdict

Pass

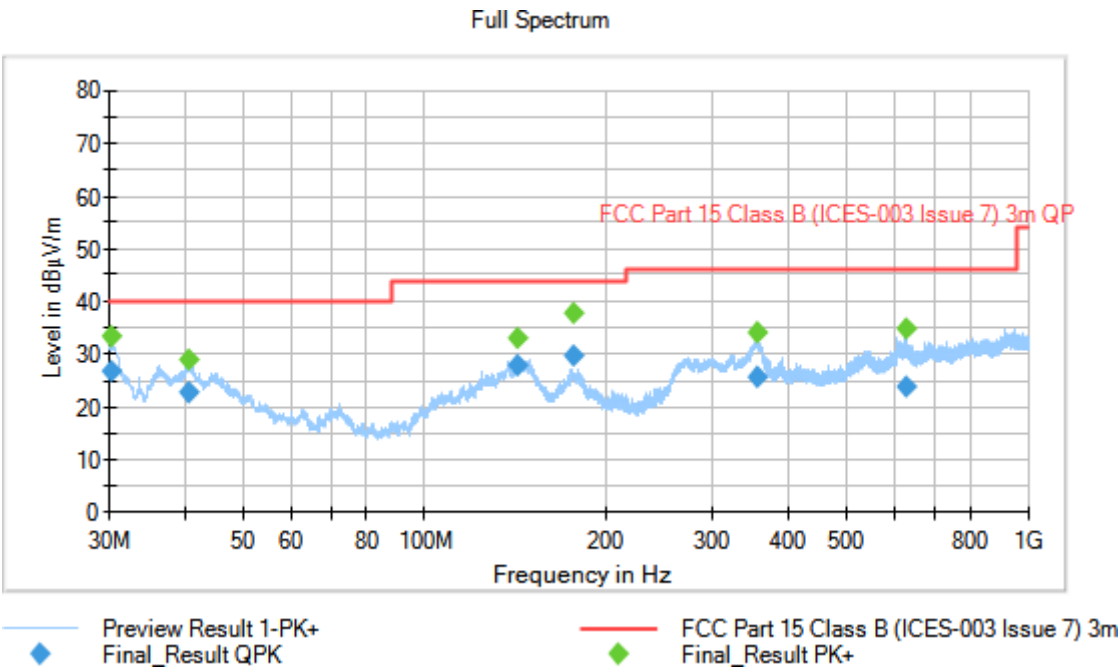
Attachments

EMC Test Code = RE0101LR    Frequency Range MHz = [30, 1000]

Sample ID: S/01

Operation Mode: OM/01

Images:



Tables:

Radiated Emission

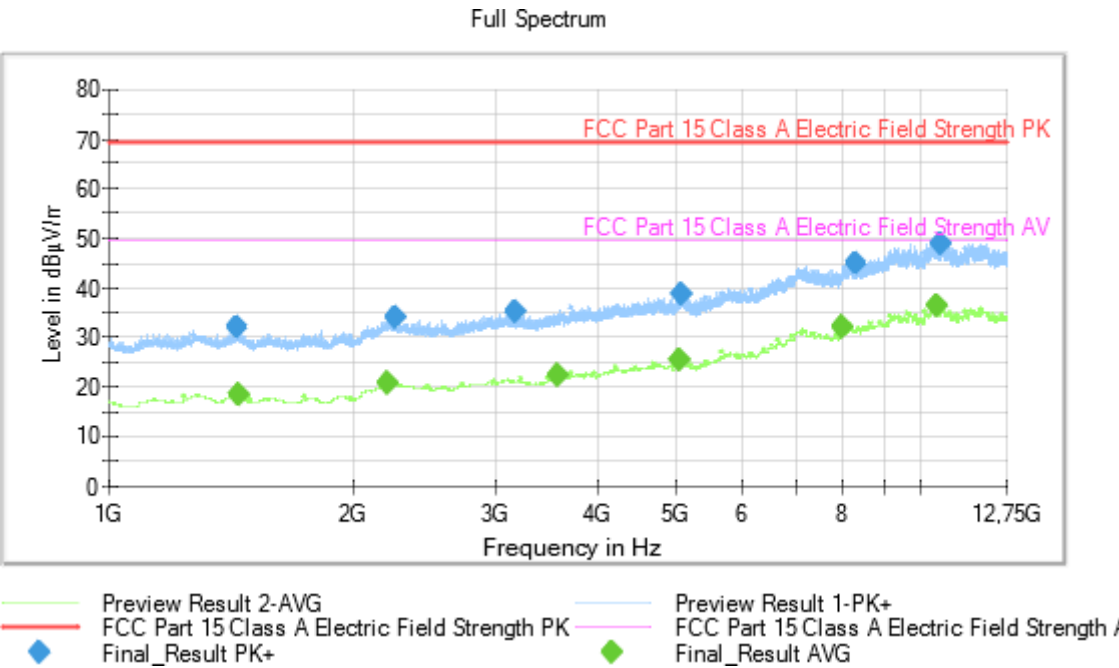
| Frequency (MHz) | QuasiPeak (dBµV/m) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|------------------|----------------|-------------|-------------|-----|---------------|
| 30.169420       | ---                | 33.32            | ---            | ---         | 140.0       | H   | 173.0         |
| 30.169420       | 26.61              | ---              | 40.00          | 13.39       | 140.0       | H   | 173.0         |
| 40.591000       | ---                | 28.86            | ---            | ---         | 132.0       | H   | 175.0         |
| 40.591000       | 22.84              | ---              | 40.00          | 17.16       | 132.0       | H   | 175.0         |
| 142.279000      | ---                | 32.93            | ---            | ---         | 100.0       | H   | 31.0          |
| 142.279000      | 28.03              | ---              | 43.52          | 15.49       | 100.0       | H   | 31.0          |
| 175.822000      | ---                | 37.96            | ---            | ---         | 136.0       | V   | 1.0           |
| 175.822000      | 29.60              | ---              | 43.52          | 13.92       | 136.0       | V   | 1.0           |
| 355.611000      | 25.62              | ---              | 46.00          | 20.38       | 131.0       | H   | 142.0         |
| 355.611000      | ---                | 34.10            | ---            | ---         | 131.0       | H   | 142.0         |
| 625.817000      | 23.91              | ---              | 46.00          | 22.09       | 146.0       | V   | -11.0         |
| 625.817000      | ---                | 34.90            | ---            | ---         | 146.0       | V   | -11.0         |

EMC Test Code = RE0101HR    Frequency Range MHz = [1000, 12750]

Sample ID: S/01

Operation Mode: OM/01

Images:



Tables:

Radiated Emission

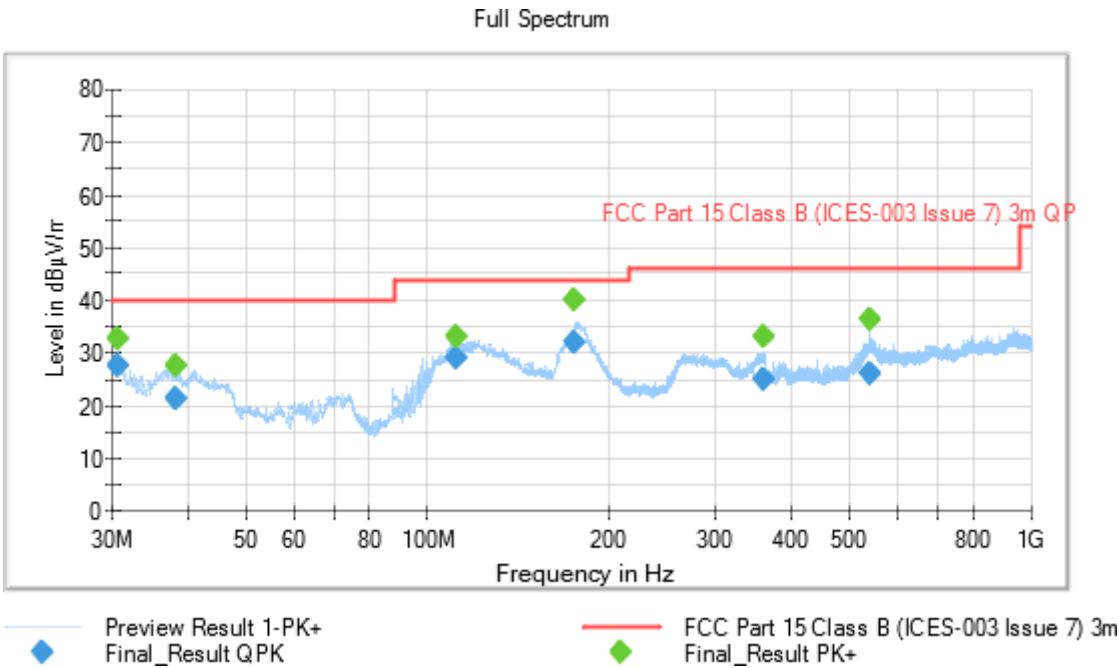
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|
| 1436.250000     | 31.83            | ---              | 69.54          | 37.71       | 80.0        | V   | 0.0           |
| 1446.250000     | ---              | 18.35            | 49.54          | 31.19       | 80.0        | H   | 0.0           |
| 2206.750000     | ---              | 20.71            | 49.54          | 28.83       | 80.0        | V   | 0.0           |
| 2249.250000     | 33.87            | ---              | 69.54          | 35.67       | 80.0        | H   | 0.0           |
| 3160.000000     | 35.12            | ---              | 69.54          | 34.42       | 80.0        | H   | 0.0           |
| 3564.000000     | ---              | 22.13            | 49.54          | 27.41       | 80.0        | H   | 0.0           |
| 5051.750000     | ---              | 25.36            | 49.54          | 24.18       | 80.0        | H   | 0.0           |
| 5082.250000     | 38.67            | ---              | 69.54          | 30.87       | 80.0        | H   | 0.0           |
| 8015.000000     | ---              | 32.10            | 49.54          | 17.44       | 80.0        | V   | 0.0           |
| 8319.000000     | 45.07            | ---              | 69.54          | 24.47       | 80.0        | V   | 0.0           |
| 10479.750000    | ---              | 36.15            | 49.54          | 13.39       | 80.0        | H   | 0.0           |
| 10592.250000    | 48.97            | ---              | 69.54          | 20.57       | 80.0        | V   | 0.0           |

EMC Test Code = RE0102LR    Frequency Range MHz = [30, 1000]

Sample ID: S/01

Operation Mode: OM/02

Images:



Tables:

Radiated Emission

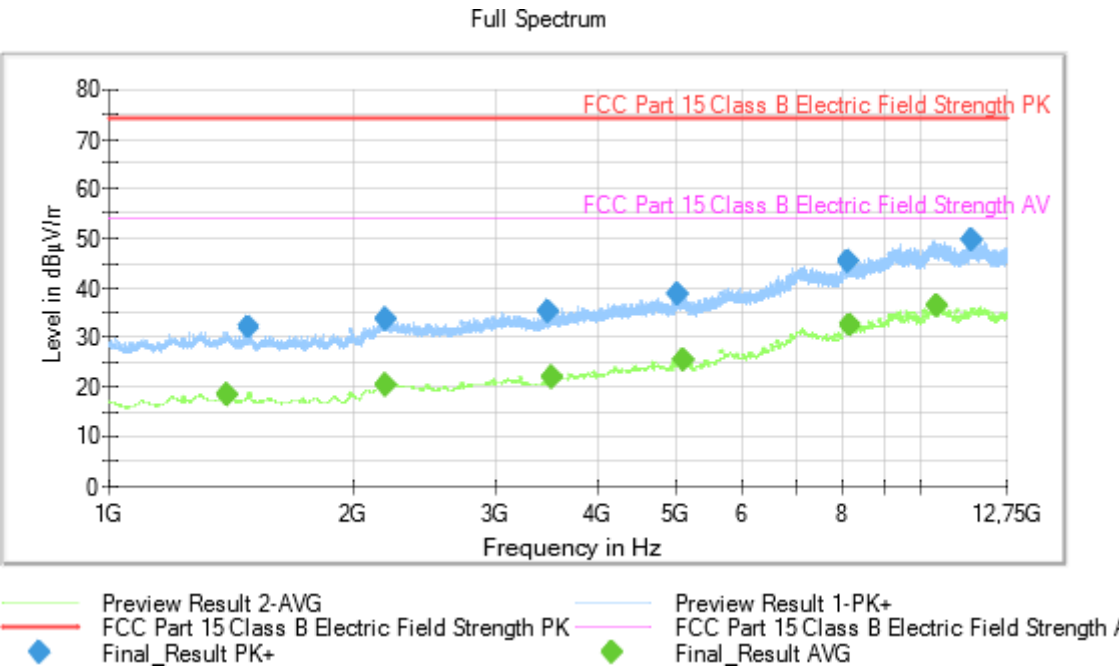
| Frequency (MHz) | QuasiPeak (dBµV/m) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|------------------|----------------|-------------|-------------|-----|---------------|
| 30.644000       | ---                | 32.76            | ---            | ---         | 118.0       | H   | -27.0         |
| 30.644000       | 27.62              | ---              | 40.00          | 12.38       | 118.0       | H   | -27.0         |
| 38.394000       | 21.12              | ---              | 40.00          | 18.88       | 184.0       | V   | -135.0        |
| 38.394000       | ---                | 27.43            | ---            | ---         | 184.0       | V   | -135.0        |
| 111.770000      | 29.14              | ---              | 43.52          | 14.38       | 131.0       | V   | 105.0         |
| 111.770000      | ---                | 33.15            | ---            | ---         | 131.0       | V   | 105.0         |
| 175.762000      | ---                | 40.03            | ---            | ---         | 176.0       | H   | 3.0           |
| 175.762000      | 31.83              | ---              | 43.52          | 11.69       | 176.0       | H   | 3.0           |
| 359.761000      | 24.83              | ---              | 46.00          | 21.17       | 138.0       | V   | 7.0           |
| 359.761000      | ---                | 32.97            | ---            | ---         | 138.0       | V   | 7.0           |
| 542.808000      | 25.94              | ---              | 46.00          | 20.06       | 146.0       | H   | 30.0          |
| 542.808000      | ---                | 36.49            | ---            | ---         | 146.0       | H   | 30.0          |

EMC Test Code = RE0102HR    Frequency Range MHz = [1000, 12750]

Sample ID: S/01

Operation Mode: OM/02

Images:



Tables:

Radiated Emission

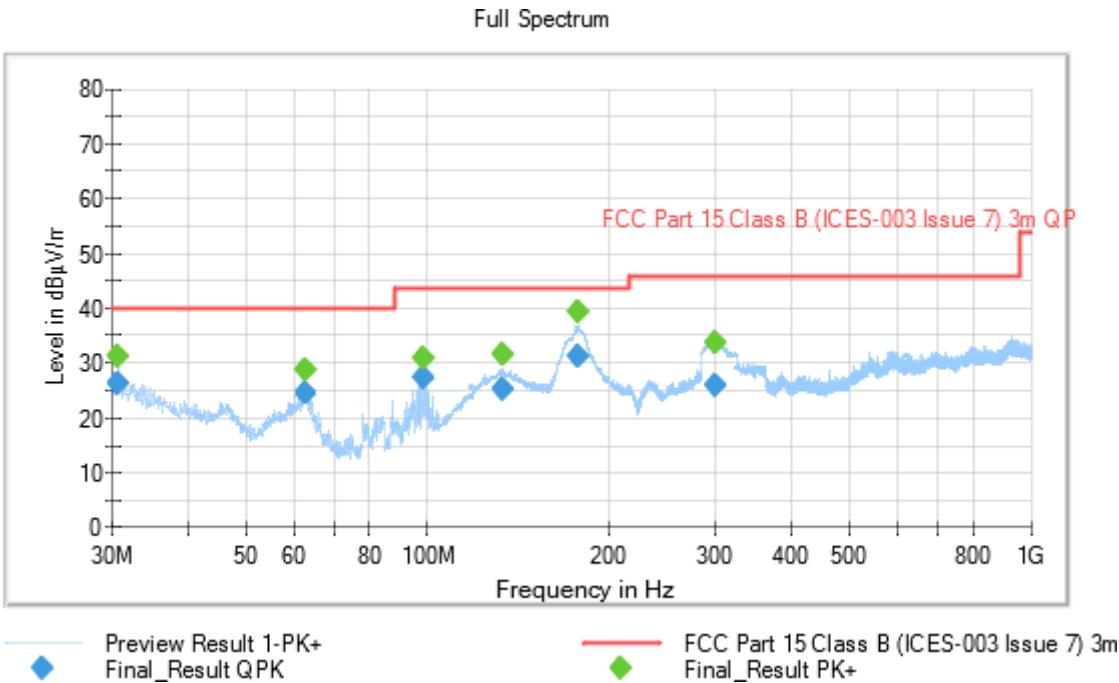
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|
| 1397.000000     | ---              | 18.24            | 53.97          | 35.73       | 80.0        | H   | 0.0           |
| 1482.750000     | 31.93            | ---              | 73.97          | 42.04       | 80.0        | H   | 0.0           |
| 2190.500000     | ---              | 20.48            | 53.97          | 33.49       | 80.0        | H   | 0.0           |
| 2193.250000     | 33.75            | ---              | 73.97          | 40.22       | 80.0        | V   | 0.0           |
| 3474.500000     | 35.14            | ---              | 73.97          | 38.84       | 80.0        | H   | 0.0           |
| 3510.500000     | ---              | 21.95            | 53.97          | 32.02       | 80.0        | H   | 0.0           |
| 5009.000000     | 38.46            | ---              | 73.97          | 35.51       | 80.0        | H   | 0.0           |
| 5103.500000     | ---              | 25.22            | 53.97          | 28.75       | 80.0        | V   | 0.0           |
| 8153.000000     | 45.25            | ---              | 73.97          | 28.72       | 80.0        | V   | 0.0           |
| 8156.500000     | ---              | 32.51            | 53.97          | 21.46       | 80.0        | V   | 0.0           |
| 10478.750000    | ---              | 36.32            | 53.97          | 17.65       | 80.0        | H   | 0.0           |
| 11577.250000    | 49.39            | ---              | 73.97          | 24.58       | 80.0        | V   | 0.0           |

EMC Test Code = RE0203LR    Frequency Range MHz = [30, 1000]

Sample ID: S/02

Operation Mode: OM/03

Images:



Tables:

Radiated Emission

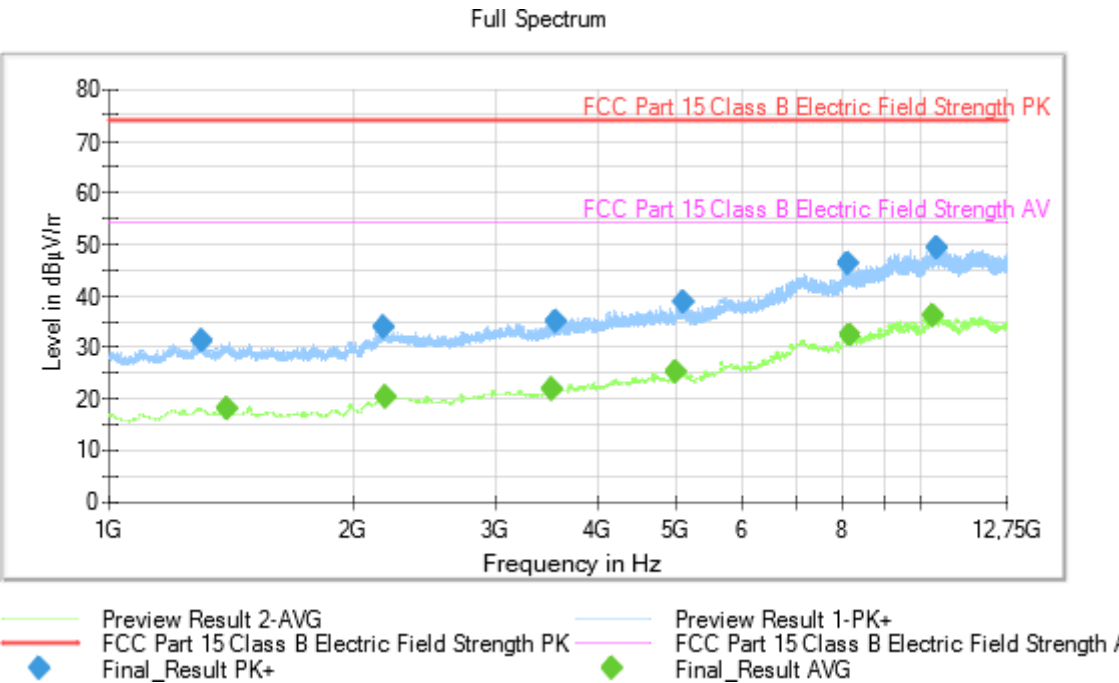
| Frequency (MHz) | QuasiPeak (dBµV/m) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|------------------|----------------|-------------|-------------|-----|---------------|
| 30.605000       | 26.17              | ---              | 40.00          | 13.83       | 118.0       | H   | 71.0          |
| 30.605000       | ---                | 31.31            | ---            | ---         | 118.0       | H   | 71.0          |
| 62.962000       | 24.27              | ---              | 40.00          | 15.73       | 135.0       | V   | -138.0        |
| 62.962000       | ---                | 28.50            | ---            | ---         | 135.0       | V   | -138.0        |
| 98.425000       | 27.11              | ---              | 43.52          | 16.41       | 121.0       | V   | 91.0          |
| 98.425000       | ---                | 30.96            | ---            | ---         | 121.0       | V   | 91.0          |
| 132.788000      | 25.07              | ---              | 43.52          | 18.45       | 211.0       | H   | -27.0         |
| 132.788000      | ---                | 31.53            | ---            | ---         | 211.0       | H   | -27.0         |
| 177.723000      | 31.05              | ---              | 43.52          | 12.47       | 178.0       | H   | 20.0          |
| 177.723000      | ---                | 39.21            | ---            | ---         | 178.0       | H   | 20.0          |
| 300.044000      | 25.75              | ---              | 46.00          | 20.25       | 100.0       | V   | 105.0         |
| 300.044000      | ---                | 33.59            | ---            | ---         | 100.0       | V   | 105.0         |

EMC Test Code = RE0203HR    Frequency Range MHz = [1000, 12750]

Sample ID: S/02

Operation Mode: OM/03

Images:



Tables:

Radiated Emission

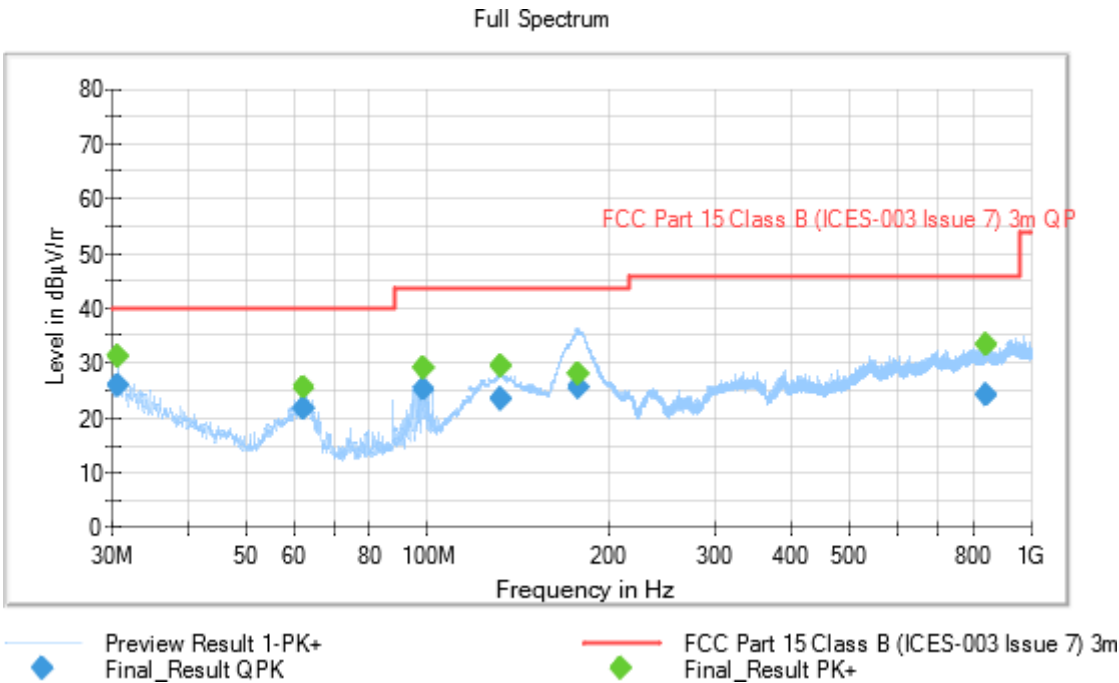
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|
| 1301.500000     | 31.13            | ---              | 73.97          | 42.84       | 80.0        | V   | 0.0           |
| 1396.250000     | ---              | 18.15            | 53.97          | 35.82       | 80.0        | V   | 0.0           |
| 2176.500000     | 33.76            | ---              | 73.97          | 40.21       | 80.0        | V   | 0.0           |
| 2187.500000     | ---              | 20.45            | 53.97          | 33.52       | 80.0        | V   | 0.0           |
| 3512.000000     | ---              | 21.77            | 53.97          | 32.20       | 80.0        | V   | 0.0           |
| 3550.000000     | 35.04            | ---              | 73.97          | 38.93       | 80.0        | H   | 0.0           |
| 4997.750000     | ---              | 25.06            | 53.97          | 28.91       | 80.0        | H   | 0.0           |
| 5113.250000     | 38.74            | ---              | 73.97          | 35.23       | 80.0        | H   | 0.0           |
| 8137.250000     | 46.20            | ---              | 73.97          | 27.77       | 80.0        | V   | 0.0           |
| 8155.500000     | ---              | 32.28            | 53.97          | 21.69       | 80.0        | V   | 0.0           |
| 10377.750000    | ---              | 36.21            | 53.97          | 17.76       | 80.0        | V   | 0.0           |
| 10474.750000    | 49.29            | ---              | 73.97          | 24.68       | 80.0        | V   | 0.0           |

EMC Test Code = RE0204LR    Frequency Range MHz = [30, 1000]

Sample ID: S/02

Operation Mode: OM/04

Images:



Tables:

Radiated Emission

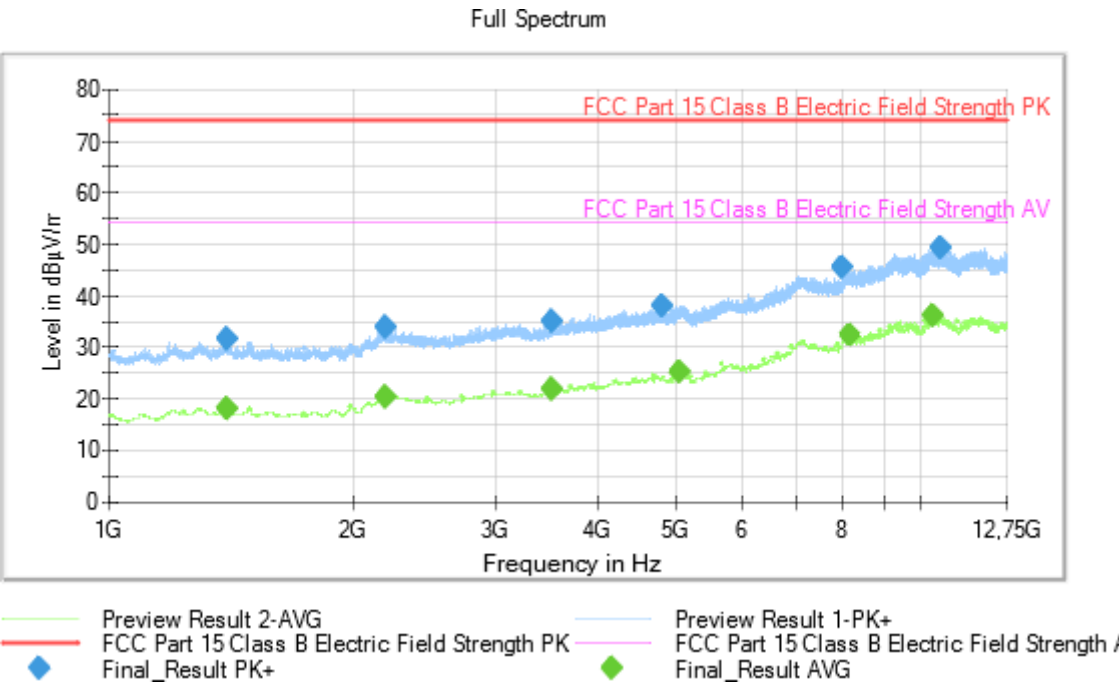
| Frequency (MHz) | QuasiPeak (dBµV/m) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|------------------|----------------|-------------|-------------|-----|---------------|
| 30.633000       | 25.89              | ---              | 40.00          | 14.11       | 128.0       | H   | 29.0          |
| 30.633000       | ---                | 31.10            | ---            | ---         | 128.0       | H   | 29.0          |
| 62.213000       | ---                | 25.55            | ---            | ---         | 125.0       | V   | 115.0         |
| 62.213000       | 21.62              | ---              | 40.00          | 18.38       | 125.0       | V   | 115.0         |
| 98.431000       | 25.22              | ---              | 43.52          | 18.30       | 159.0       | V   | -44.0         |
| 98.431000       | ---                | 28.85            | ---            | ---         | 159.0       | V   | -44.0         |
| 132.763000      | ---                | 29.44            | ---            | ---         | 327.0       | H   | -4.0          |
| 132.763000      | 23.41              | ---              | 43.52          | 20.11       | 327.0       | H   | -4.0          |
| 177.391000      | 25.31              | ---              | 43.52          | 18.21       | 235.0       | H   | -11.0         |
| 177.391000      | ---                | 28.04            | ---            | ---         | 235.0       | H   | -11.0         |
| 845.310000      | 24.19              | ---              | 46.00          | 21.81       | 348.0       | V   | 53.0          |
| 845.310000      | ---                | 33.13            | ---            | ---         | 348.0       | V   | 53.0          |

EMC Test Code = RE0204HR    Frequency Range MHz = [1000, 12750]

Sample ID: S/02

Operation Mode: OM/04

Images:



Tables:

Radiated Emission

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|
| 1397.000000     | ---              | 18.05            | 53.97          | 35.92       | 80.0        | H   | 0.0           |
| 1401.000000     | 31.56            | ---              | 73.97          | 42.41       | 80.0        | V   | 0.0           |
| 2190.250000     | 33.81            | ---              | 73.97          | 40.16       | 80.0        | V   | 0.0           |
| 2196.500000     | ---              | 20.33            | 53.97          | 33.64       | 80.0        | V   | 0.0           |
| 3507.500000     | 35.03            | ---              | 73.97          | 38.94       | 80.0        | H   | 0.0           |
| 3513.000000     | ---              | 21.77            | 53.97          | 32.20       | 80.0        | V   | 0.0           |
| 4798.250000     | 38.04            | ---              | 73.97          | 35.93       | 80.0        | H   | 0.0           |
| 5053.750000     | ---              | 25.04            | 53.97          | 28.93       | 80.0        | H   | 0.0           |
| 8018.750000     | 45.42            | ---              | 73.97          | 28.55       | 80.0        | V   | 0.0           |
| 8156.000000     | ---              | 32.32            | 53.97          | 21.65       | 80.0        | H   | 0.0           |
| 10377.750000    | ---              | 36.18            | 53.97          | 17.79       | 80.0        | V   | 0.0           |
| 10569.250000    | 49.19            | ---              | 73.97          | 24.78       | 80.0        | H   | 0.0           |