

ISED CABid: ES1909  
Lab. Company Number: 4621A

Test Report No:  
75859RRF.003

## Partial Test Report

USA FCC Part 15.31, 15.225, 15.247, 15.209

CANADA RSS-210, RSS-247, RSS-Gen

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (*) Identification of item tested         | Design XS Reader including all mechanical variants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| (*) Trademark                             | SALTO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| (*) Model and /or type reference          | WRD0M / Type reference: P1619                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Other identification of the product       | FCC ID: UKCWRD0M<br>IC: 10088A-WRD0M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| (*) Features                              | Contains a certified Bluetooth LE module<br>HW version: 2.0<br>SW version: 0194 (Control FW), 0197 (HSE FW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Applicant                                 | SALTO SYSTEMS, S.L.<br>Arkotz 9, Polígono Lanbarren 20180, Oiartzun, Guipúzcoa, Spain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test method requested, standard           | USA FCC Part 15.31 (10-1-21 Edition): Measurement standard.<br>USA FCC Part 15.225 (10-1-21 Edition): Operation within the band 13.110 -14.010.<br>USA FCC Part 15.247 (10-1-21) Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz.<br>USA FCC Part 15.209 (10-1-21) Edition: Radiated emission limits; general requirements.<br>CANADA RSS-210 Issue 10 (December 2019).<br>CANADA RSS-247 Issue 2 (February 2017).<br>CANADA RSS-Gen Issue 5 Amendment 2 (February 2021)<br>Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019.<br>ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices. |
| Approved by (name / position & signature) | José Manuel Gómez Galván<br>EMC Consumer & RF<br>Lab. Manager<br><br>Firmado digitalmente por 53680346W JOSE MANUEL GOMEZ (C:A29507456)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Date of issue                             | 2023-08-29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Report template No                        | FDT08_24<br>(*) "Data provided by the client"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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## Competences and guarantees

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DEKRA Testing and Certification S.A.U. is an FCC-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

DEKRA Testing and Certification S.A.U. is an ISED-recognized accredited testing laboratory, CABid: ES1909, Company Number: 4621A, with the appropriate scope of accreditation that covers the performed tests in this report.

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## General conditions

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## Uncertainty

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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 radiated emissions of the EUT is:

|                       |                                             |
|-----------------------|---------------------------------------------|
| From 9 kHz to 30 MHz: | Measurement uncertainty $\leq \pm 3.04$ dB. |
| From 30 MHz to 1 GHz: | Measurement uncertainty $\leq \pm 5.03$ dB. |
| From 1 to 3 GHz:      | Measurement uncertainty $\leq \pm 4.11$ dB. |
| From 3 to 17 GHz:     | Measurement uncertainty $\leq \pm 4.32$ dB. |
| From 17 to 26 GHz:    | Measurement uncertainty $\leq \pm 4.58$ dB. |

## 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 of the model WRD0M / Type reference: P1619 is a Design XS Reader with Mifare (ISO14443A & ISO15693 standard based), RS-485 and Bluetooth LE technology.

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 result.

## 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 | 75859_5.1      | Design XS Reader   | WRD0M  | --        | 2023-05-19        | Element Under Test |
| S/01 | 75750_7.1      | Electronic Control | CU42E0 | --        | 2023-05-03        | Auxiliary Element  |

Notes referenced to samples during the project:

| Id   | Type                           |
|------|--------------------------------|
| S/01 | Samples used for radiated test |

## Test sample description

|                                               |                                                                                              |                          |                                     |                          |                                   |                          |                          |
|-----------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------|--------------------------|--------------------------|
| Ports.....:                                   | Port name and description                                                                    | Cable                    |                                     |                          |                                   |                          |                          |
|                                               |                                                                                              | Specified max length [m] | Attached during test                | Shielded                 | Coupled to patient <sup>(3)</sup> |                          |                          |
|                                               | RS-485                                                                                       | >3m                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          |                          |                          |
| Supplementary information to the ports.....:  | -                                                                                            |                          |                                     |                          |                                   |                          |                          |
| Rated power supply .....                      | Voltage and Frequency                                                                        |                          | Reference poles                     |                          |                                   |                          |                          |
|                                               |                                                                                              |                          | L1                                  | L2                       | L3                                | N                        | PE                       |
|                                               | <input type="checkbox"/> AC:                                                                 |                          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> |
|                                               | <input checked="" type="checkbox"/> DC: 12 Vdc from a SALTO CU                               |                          |                                     |                          |                                   |                          |                          |
| Rated Power.....:                             | -                                                                                            |                          |                                     |                          |                                   |                          |                          |
| Clock frequencies.....:                       | 27.12 MHz                                                                                    |                          |                                     |                          |                                   |                          |                          |
| Other parameters .....                        | RS-485                                                                                       |                          |                                     |                          |                                   |                          |                          |
| Software version.....:                        | 0194 (Control FW), 0197 (HSE FW)                                                             |                          |                                     |                          |                                   |                          |                          |
| Hardware version .....                        | 2.0                                                                                          |                          |                                     |                          |                                   |                          |                          |
| Dimensions in cm (W x H x D) ...:             | 9.55 x 9.55 x 2.2/2.7 (conical/square base) cm / 9,55 x 14,1 x 2,95 cm (rectangular housing) |                          |                                     |                          |                                   |                          |                          |
| Mounting position .....                       | <input type="checkbox"/> Table top equipment                                                 |                          |                                     |                          |                                   |                          |                          |
|                                               | <input checked="" type="checkbox"/> Wall/Ceiling mounted equipment                           |                          |                                     |                          |                                   |                          |                          |
|                                               | <input type="checkbox"/> Floor standing equipment                                            |                          |                                     |                          |                                   |                          |                          |
|                                               | <input type="checkbox"/> Hand-held equipment                                                 |                          |                                     |                          |                                   |                          |                          |
|                                               | <input type="checkbox"/> Other:                                                              |                          |                                     |                          |                                   |                          |                          |
| Modules/parts.....:                           | Module/parts of test item                                                                    |                          | Type                                | Manufacturer             |                                   |                          |                          |
|                                               | Bluetooth LE certified module                                                                |                          | BLE                                 | INSIGHT                  |                                   |                          |                          |
| Accessories (not part of the test item) ..... | Description                                                                                  |                          | Type                                | Manufacturer             |                                   |                          |                          |
|                                               | -                                                                                            |                          | -                                   | -                        |                                   |                          |                          |
| Documents as provided by the applicant .....  | Description                                                                                  |                          | File name                           | Issue date               |                                   |                          |                          |
|                                               | User manual                                                                                  |                          |                                     |                          |                                   |                          |                          |
|                                               | FW Explanation                                                                               |                          |                                     |                          |                                   |                          |                          |

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

## Identification of the client

SALTO SYSTEMS, S.L.  
Arkotz 9, Polígono Lanbarren, 20180, Oiartzun, Guipúzcoa, Spain

## Testing period and place

|               |                                        |
|---------------|----------------------------------------|
| Test Location | DEKRA Testing and Certification S.A.U. |
| Date (start)  | 30-05-2023                             |
| Date (finish) | 31-05-2023                             |

## Document history

| Report number | Date       | Description    |
|---------------|------------|----------------|
| 75859RRF.003  | 2023-08-29 | First release. |

## 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. = 20 %<br>Max. = 75 %   |

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

|                   |                              |
|-------------------|------------------------------|
| Temperature       | Min. = 15 °C<br>Max. = 35 °C |
| Relative humidity | Min. = 20 %<br>Max. = 75 %   |

## Remarks and comments

The tests have been performed by the technical personnel: Sergio Carrasco.

Used instrumentation:

### Radiated Measurements:

|                                                                         | Last Calibration | Due Calibration |
|-------------------------------------------------------------------------|------------------|-----------------|
| 1. Semianechoic Absorber Lined Chamber ETS LINDGREN FACT 3 200 STP      | N/A              | N/A             |
| 2. Shielded Room ETS LINDGREN S101                                      | N/A              | N/A             |
| 3. Active Loop Antenna HEWLETT PACKARD 11966A                           | 2022-08          | 2024-08         |
| 4. EMI Test Receiver 2 Hz - 44 GHz, ROHDE AND SCHWARZ ESW44             | 2021-12          | 2023-12         |
| 5. Digital Multimeter FLUKE 175                                         | 2022-11          | 2023-11         |
| 6. Biconical/Log Antenna 30 MHz - 6 GHz ETS LINDGREN 3142E              | 2020-10          | 2023-10         |
| 7. RF Preamplifier, G>38dB 30MHz-6GHz BONN ELEKTRONIK BLNA 0360-01N     | 2022-06          | 2023-06         |
| 8. Digital Multimeter, FLUKE 175                                        | 2022-11          | 2023-11         |
| 9. Horn Antenna 1-18 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9120 D        | 2020-08          | 2023-08         |
| 10. Horn Antenna 18-40 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9170        | 2020-05          | 2023-05         |
| 11. RF Preamplifier G>30dB, 1-18GHz BONN ELEKTRONIK BLMA 0118-3A        | 2022-12          | 2023-12         |
| 12. Pre-Amplifier G>30dB 17-40GHz BONN ELEKTRONIK BLMA 1840-4A          | 2022-11          | 2023-11         |
| 13. Signal and Spectrum Analyzer 10 Hz - 40 GHz ROHDE AND SCHWARZ FSV40 | 2021-10          | 2023-10         |
| 14. EMC/RF Testing SW ROHDE AND SCHWARZ EMC32                           | N/A              | N/A             |

## Testing verdicts

|                 |     |
|-----------------|-----|
| Not applicable: | N/A |
| Pass:           | P   |
| Fail:           | F   |
| Not measured:   | N/M |

## Summary

| FCC PART 15 PARAGRAPH / RSS-210, RSS-247                                                                                                                |         |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|
| Requirement – Test case                                                                                                                                 | Verdict | Remark |
| FCC 15.31 (h), FCC 15.209 (a), 15.225 (d), 15.247 (d) / RSS-Gen 8.9, RSS-210 B.6 (a)(iv), RSS-247 5.5:<br>- Emission limitations radiated (Transmitter) | P       | (1)    |
| <u>Supplementary information and remarks:</u><br>(1) Only Simultaneous Transmission radiated spurious emission test was requested.                      |         |        |

## Appendix A: Test results.

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## TEST CONDITIONS

(\*) Declared by the Applicant

### POWER SUPPLY (\*):

Vnominal: 12 Vdc  
Type of Power Supply: DC (from a SALTO CU)

### ANTENNA (\*):

Type of Antenna for Bluetooth Low Energy: Integral (chip).  
Maximum Declared Antenna Gain for Bluetooth Low Energy: +0.6 dBi  
  
Type of Antenna for NFC 13.56 MHz ISO 14443A / ISO 15693: Integral (PCB).  
Maximum Declared Antenna Gain for NFC 13.56 MHz ISO 14443A / ISO 15693: N/A

### RADIOS AND CHANNELS TESTED:

|                   | Bluetooth Low Energy / DTS |                         |
|-------------------|----------------------------|-------------------------|
| Mode:             | 1Mbps                      |                         |
| Channel Spacing:  | 2 MHz                      |                         |
| Frequency Range:  | 2400 MHz to 2483.5 MHz     |                         |
| Transmit Channel: | Channel                    | Channel Frequency (MHz) |
|                   | Low: 37                    | 2402                    |

|                   | NFC 13.56 MHz ISO 14443A / ASK 100%, OOK (subcarrier fc/16) |                         |
|-------------------|-------------------------------------------------------------|-------------------------|
| Mode:             | ISO 14443A                                                  |                         |
| Channel Spacing:  | Not Applicable                                              |                         |
| Frequency Range:  | 13.553 - 13.567 MHz                                         |                         |
| Transmit Channel: | Channel                                                     | Channel Frequency (MHz) |
|                   | Single: 1                                                   | 13.56                   |

|                   | NFC 13.56 MHz ISO 15693 / ASK 10% - 30%, OOK (subcarrier fc/32) |                         |
|-------------------|-----------------------------------------------------------------|-------------------------|
| Mode:             | ISO 15693                                                       |                         |
| Channel Spacing:  | Not Applicable                                                  |                         |
| Frequency Range:  | 13.553 - 13.567 MHz                                             |                         |
| Transmit Channel: | Channel                                                         | Channel Frequency (MHz) |
|                   | Single: 1                                                       | 13.56                   |

The EUT was tested in the following operating mode:

- Continuous transmission with a modulated carrier at maximum power in all required channels selecting the supported data rates/modulations types.

During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

### Selected Transmission Modes for each Radio:

The following configurations were selected based on preliminary testing that identified those corresponding to the worst-cases:

\* Bluetooth Low Energy: Transmitter radiated spurious emissions tests were performed with the EUT transmitting 1 Mbps in the Low Channel (2402 MHz).

\* NFC 13.56 MHz: Transmitter radiated spurious emissions tests were performed with the EUT transmitting in the Single Channel configuration supported by this radio.

### TESTED SIMULTANEOUS TRANSMISSION MODES:

\* **Simultaneous Transmission mode Bluetooth, NFC 13.56 MHz ISO 14443A**, with the EUT configured to simultaneously transmit two signals at maximum output power:

Bluetooth Low Energy in 1 Mbps in the Low Channel (CH37: 2402 MHz), NFC 13.56 MHz ISO 14443A Single channel.

\* **Simultaneous Transmission mode Bluetooth, NFC 13.56 MHz ISO 15693**, with the EUT configured to simultaneously transmit two signals at maximum output power:

Bluetooth Low Energy in 1 Mbps in the Low Channel (CH37: 2402 MHz), NFC 13.56 MHz ISO 15693 Single channel.

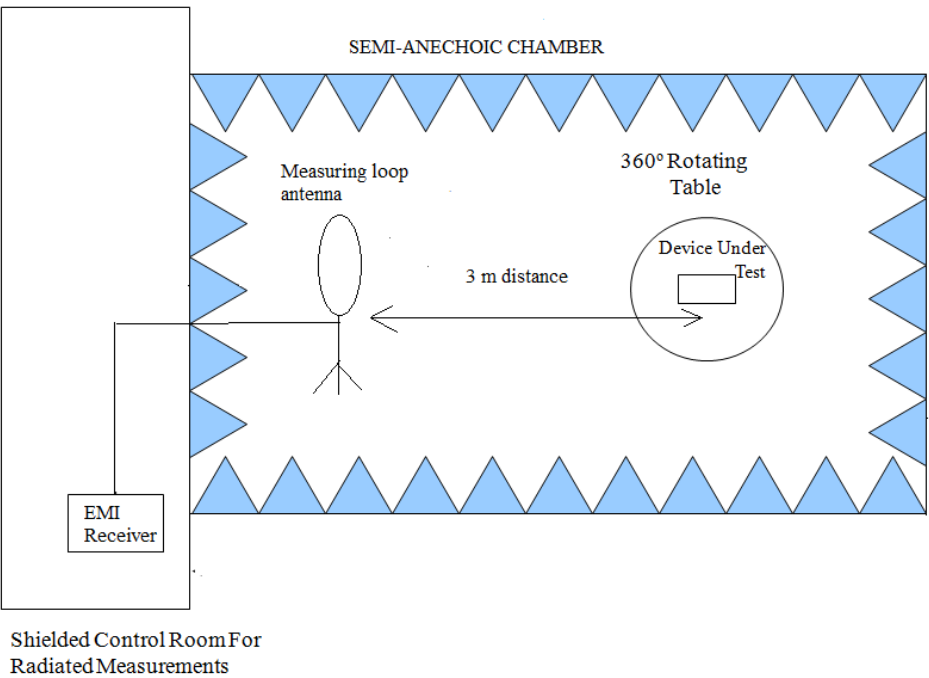
### RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m (Loop antenna for the range between 9 kHz to 30 MHz, Bilog antenna for 30 MHz to 1000 MHz, Double ridge horn antenna 1 GHz-17 GHz and horn antenna 17 GHz-26 GHz), at distance of 1.5 m for the frequency range 17 GHz-26 GHz.

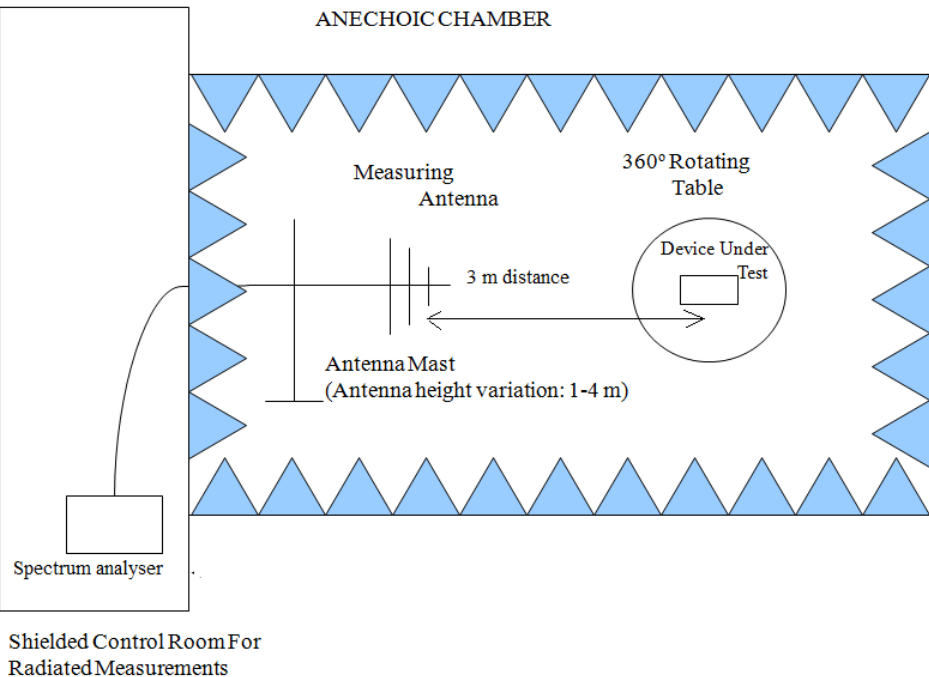
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

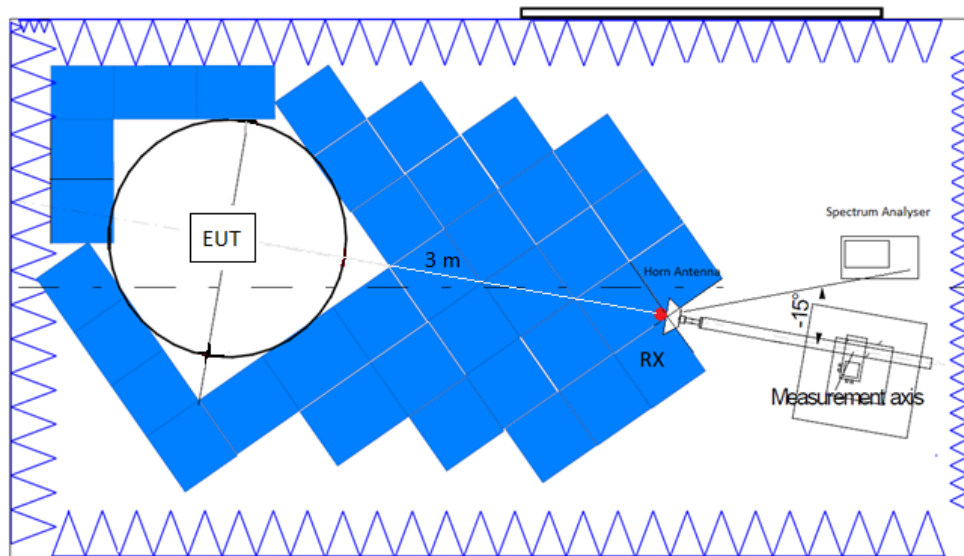
Radiated measurements setup  $f < 30 \text{ MHz}$ :



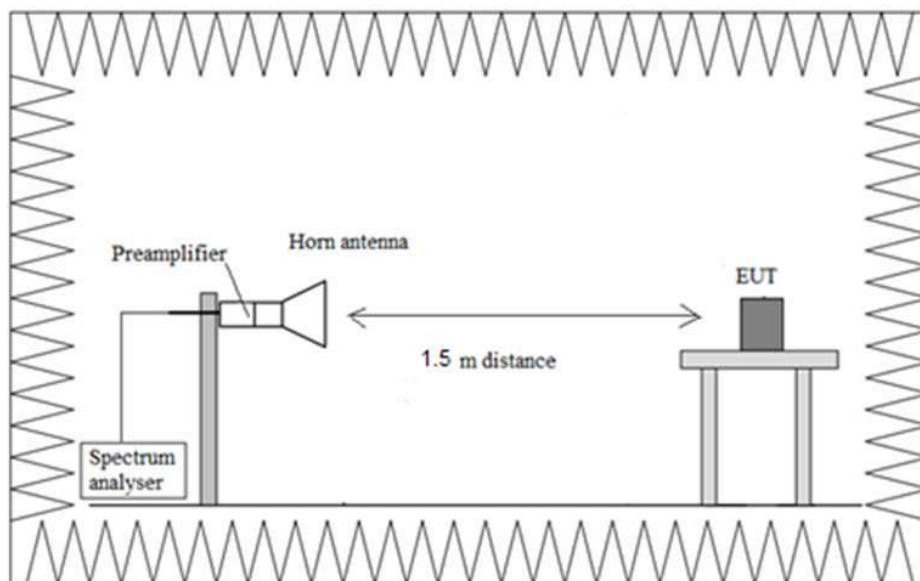
Radiated measurements setup  $30 \text{ MHz} < f < 1 \text{ GHz}$ :



Radiated measurements setup  $f > 1$  GHz up to 17 GHz:



Radiated measurements setup  $f > 17$  GHz:



## Radiated emissions

### SPECIFICATION:

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), appearing outside of the band 13.110 MHz - 14.010 MHz band must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c) / RSS-Gen):

| Frequency Range (MHz) | Field strength ( $\mu\text{V/m}$ ) | Field strength ( $\text{dB}\mu\text{V/m}$ ) | Measurement distance (m) |
|-----------------------|------------------------------------|---------------------------------------------|--------------------------|
| 0.009-0.490           | 2400/F(kHz)                        | -                                           | 300                      |
| 0.490-1.705           | 24000/F(kHz)                       | -                                           | 30                       |
| 1.705 - 30.0          | 30                                 |                                             | 30                       |
| 30 - 88               | 100                                | 40                                          | 3                        |
| 88 - 216              | 150                                | 43.5                                        | 3                        |
| 216 - 960             | 200                                | 46                                          | 3                        |
| 960 - 40000           | 500                                | 54                                          | 3                        |

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS-247. Attenuation below the general field strength limits specified in RSS-Gen is not required.

### RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 9 KHz-17 GHz and at distance of 1.5 m for the frequency range 17 GHz-26 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

A resolution bandwidth / video bandwidth of 100 kHz / 300 kHz was used for frequencies between 30 MHz up to 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.

Test performed on the following worst-cases in all relevant tests channels.

- **Simultaneous Transmission mode Bluetooth Low Energy, NFC 13.56 MHz ISO 14443A:**

|                           |                            |
|---------------------------|----------------------------|
| Bluetooth Low Energy:     | Low Channel (2402 MHz)     |
| NFC 13.56 MHz ISO 14443A: | Single Channel (13.56 MHz) |

**Frequency range 9 kHz - 30 MHz:**

No spurious frequencies detected at less than 20 dB below the limit.

**Frequency range 30 MHz - 1 GHz:**

Spurious frequencies detected at less than 20 dB below the limit:

| Spurious Frequency (MHz) | Emission Level (dBμV/m) | Polarization | Detector   |
|--------------------------|-------------------------|--------------|------------|
| 40.670000                | 28.08                   | V            | Quasi Peak |
| 121.998438               | 26.61                   | V            | Quasi Peak |
| 325.001250               | 29.96                   | V            | Quasi Peak |
| 399.994375               | 31.51                   | V            | Quasi Peak |

**Frequency range 1 - 26 GHz:**

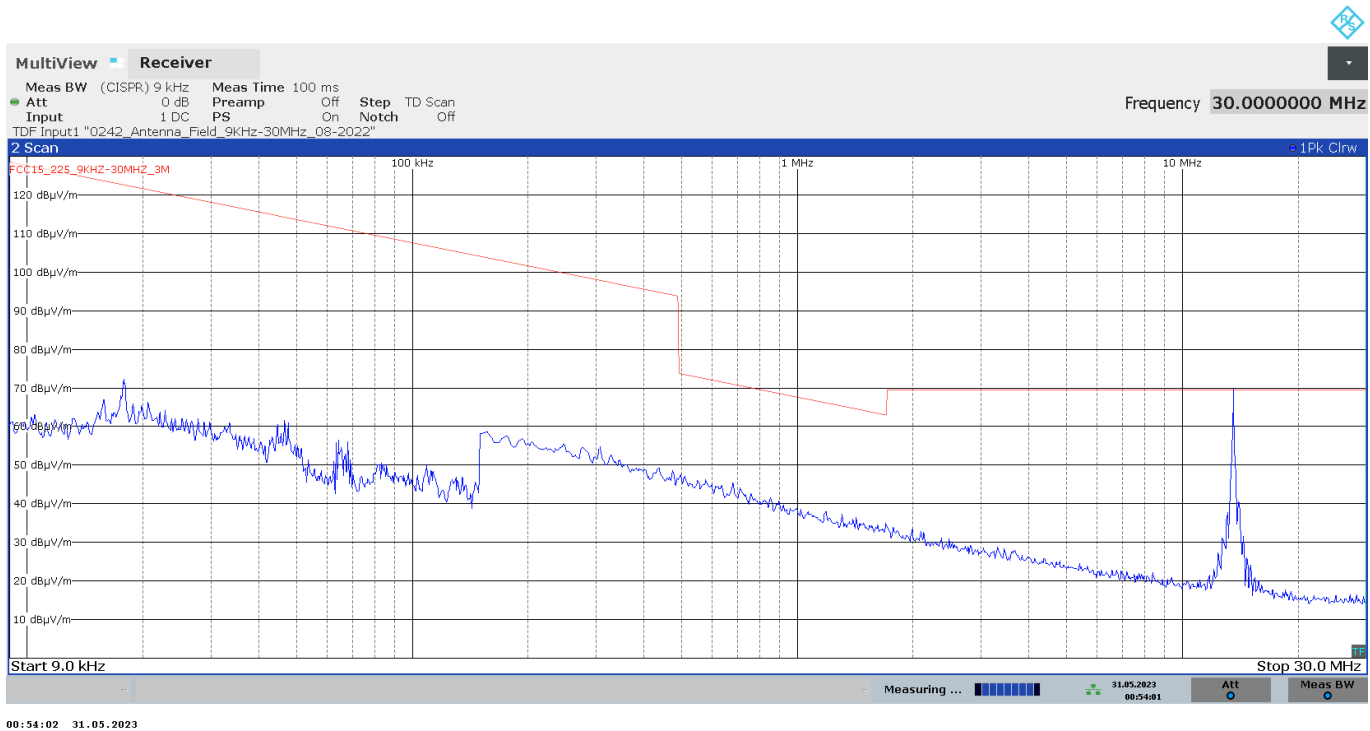
Spurious frequencies with peak levels above the average limit (54 dBμV/m at 3 m) are measured with average detector for checking compliance with the average limit.

Spurious frequencies detected at less than 20 dB below the limit:

| Spurious Frequency (MHz) | Emission Level (dBμV/m) | Polarization | Detector |
|--------------------------|-------------------------|--------------|----------|
| 7205.180000              | 55.63                   | H            | Peak     |
|                          | 44.72                   |              | Average  |

Verdict: PASS

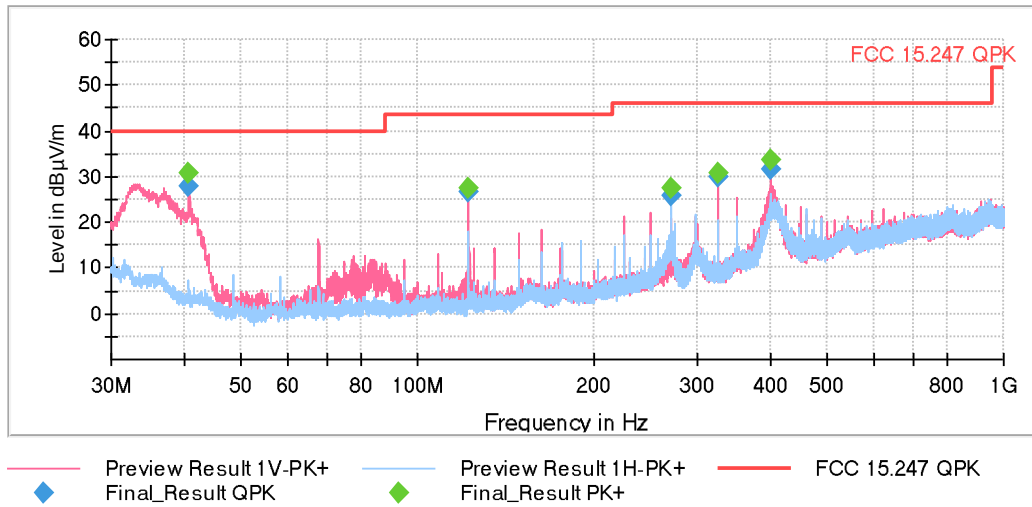
FREQUENCY RANGE 9 kHz - 30 MHz



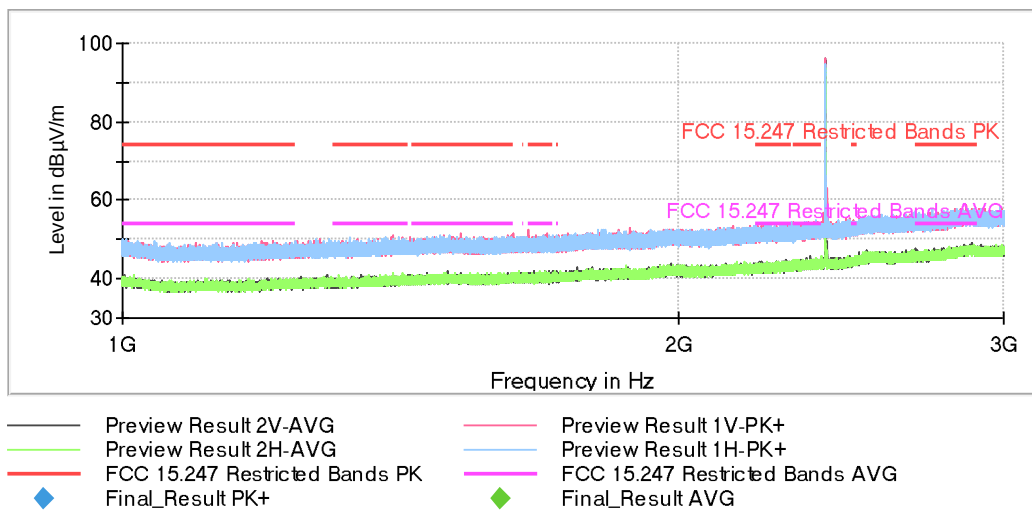
The highest peak is the NFC 13.56 MHz carrier frequency.

| Subrange        | Step Size  | Detectors | Bandwidth | Sweep Time | Preamp |
|-----------------|------------|-----------|-----------|------------|--------|
| 30 MHz - 1 GHz  | 30.312 kHz | PK+       | 100 kHz   | 1 s        | 0 dB   |
| 1 GHz - 3 GHz   | 30.769 kHz | PK+ ; AVG | 1 MHz     | 1 s        | 0 dB   |
| 3 GHz - 17 GHz  | 140 kHz    | PK+ ; AVG | 1 MHz     | 1 s        | 30 dB  |
| 17 GHz - 26 GHz | 300 kHz    | PK+ ; AVG | 1 MHz     | 1 s        | 0 dB   |

## FREQUENCY RANGE 30 MHz - 1 GHz

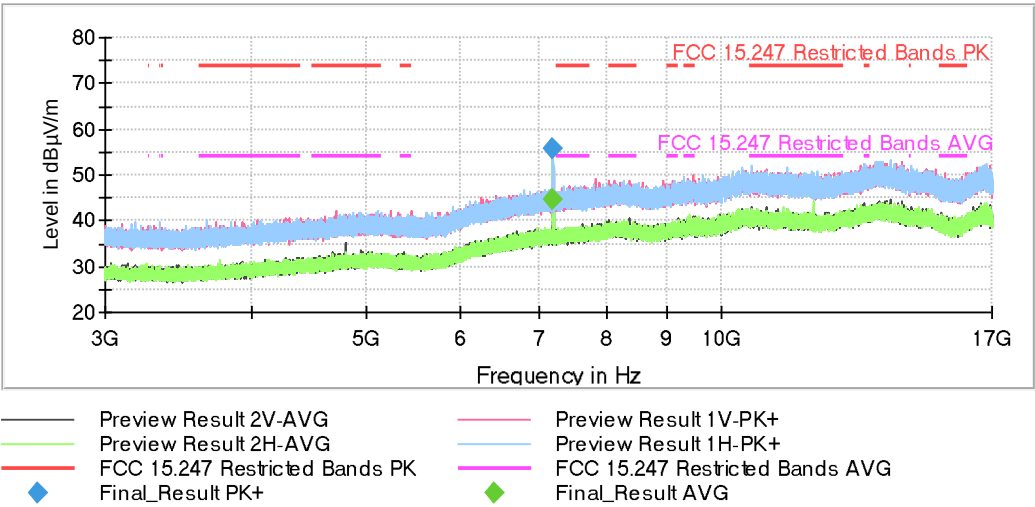


## FREQUENCY RANGE 1 - 3 GHz

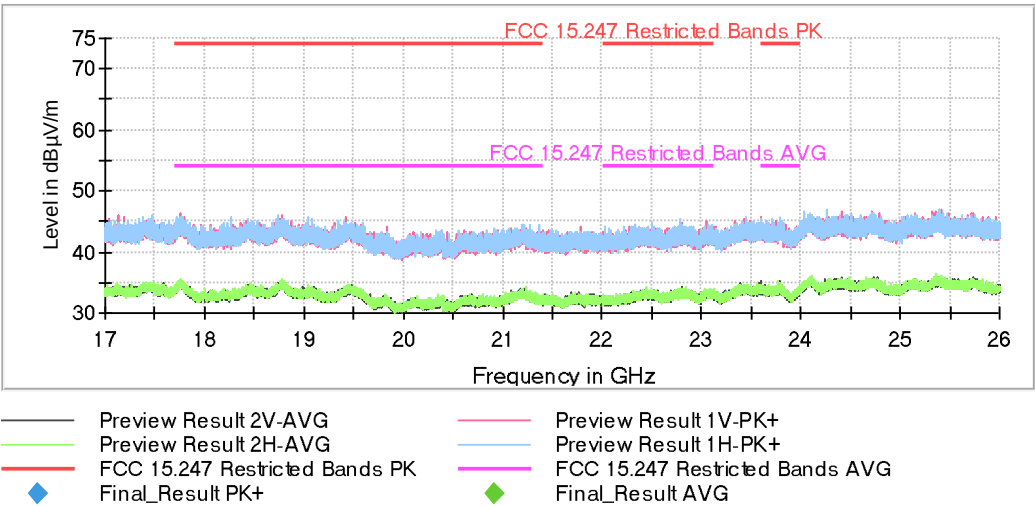


The peak above the limit is the Bluetooth LE carrier frequency.

FREQUENCY RANGE 3 - 17 GHz (



FREQUENCY RANGE 17 - 26 GHz



- **Simultaneous Transmission mode Bluetooth Low Energy, NFC 13.56 MHz ISO 15693:**

|                          |                            |
|--------------------------|----------------------------|
| Bluetooth Low Energy:    | Low Channel (2402 MHz)     |
| NFC 13.56 MHz ISO 15693: | Single Channel (13.56 MHz) |

**Frequency range 9 kHz - 30 MHz:**

No spurious frequencies detected at less than 20 dB below the limit.

**Frequency range 30 MHz - 1 GHz:**

Spurious frequencies detected at less than 20 dB below the limit:

| Spurious Frequency (MHz) | Emission Level (dBμV/m) | Polarization | Detector   |
|--------------------------|-------------------------|--------------|------------|
| 40.670000                | 27.25                   | V            | Quasi peak |
| 121.998438               | 26.65                   | V            | Quasi peak |
| 399.994375               | 30.96                   | V            | Quasi peak |

**Frequency range 1 - 26 GHz:**

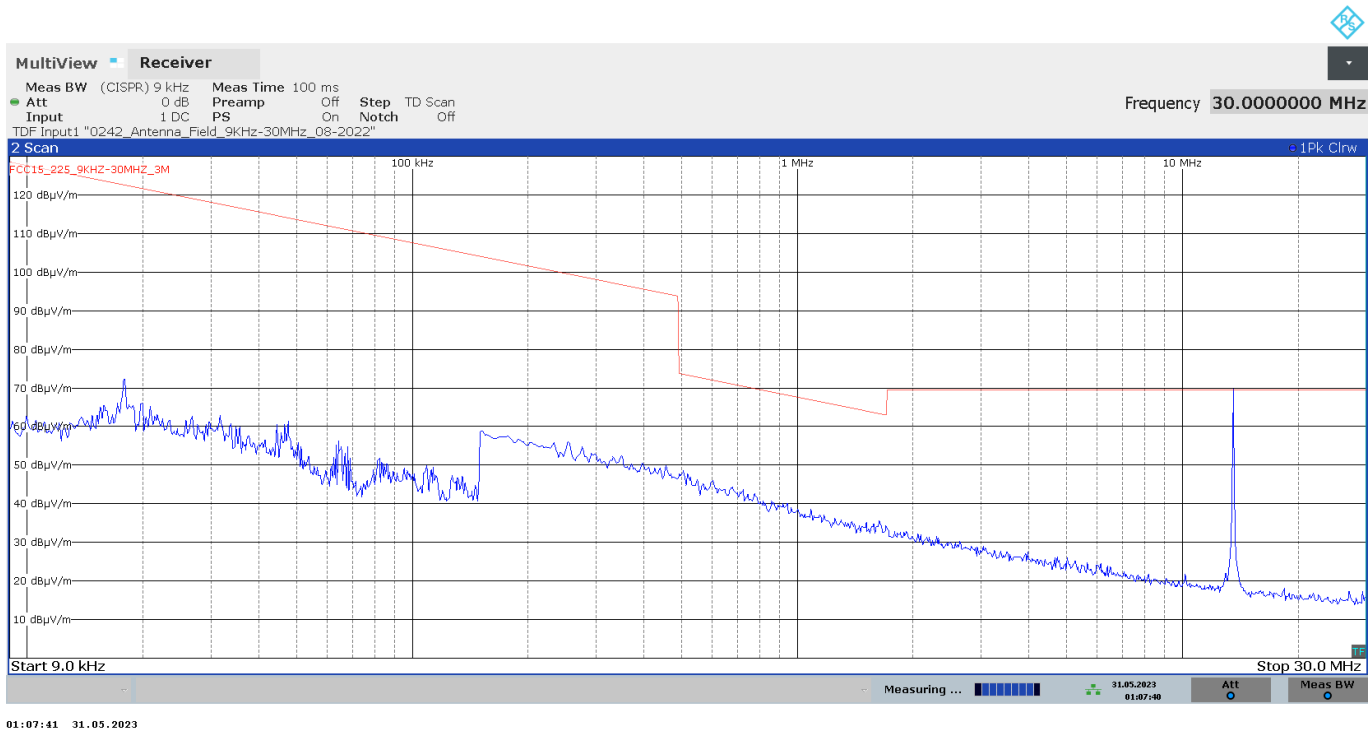
Spurious frequencies with peak levels above the average limit (54 dBμV/m at 3 m) are measured with average detector for checking compliance with the average limit.

Spurious frequencies detected at less than 20 dB below the limit:

| Spurious Frequency (MHz) | Emission Level (dBμV/m) | Polarization | Detector |
|--------------------------|-------------------------|--------------|----------|
| 7206.580000              | 57.38                   | H            | Peak     |
|                          | 47.29                   |              | Peak     |

Verdict: PASS

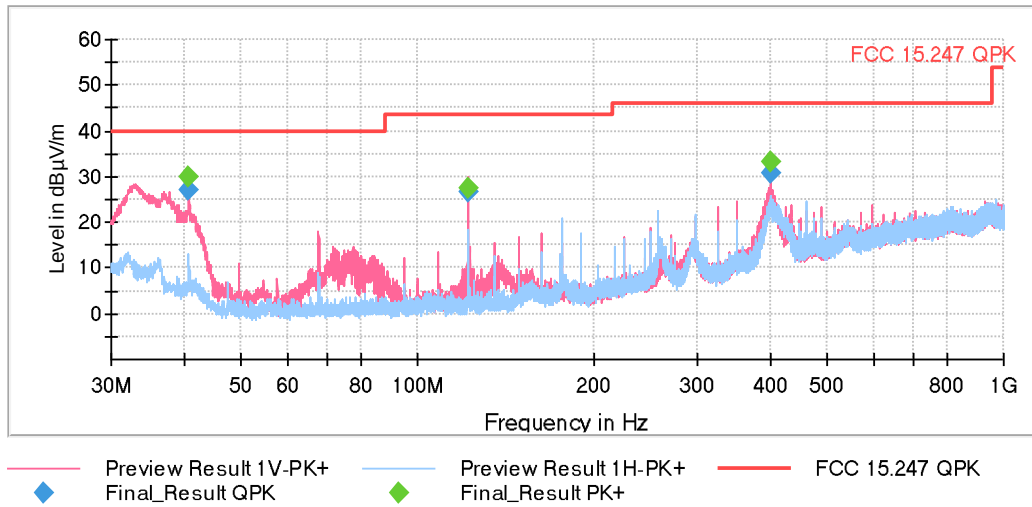
FREQUENCY RANGE 9 kHz - 30 MHz



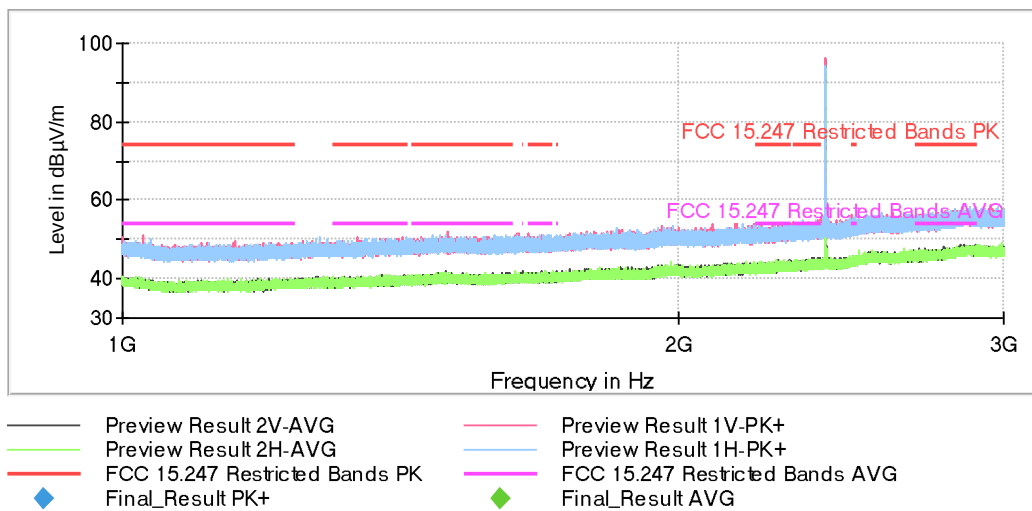
The highest peak is the NFC 13.56 MHz carrier frequency.

| Subrange        | Step Size  | Detectors | Bandwidth | Sweep Time | Preamp |
|-----------------|------------|-----------|-----------|------------|--------|
| 30 MHz - 1 GHz  | 30.312 kHz | PK+       | 100 kHz   | 1 s        | 0 dB   |
| 1 GHz - 3 GHz   | 30.769 kHz | PK+ ; AVG | 1 MHz     | 1 s        | 0 dB   |
| 3 GHz - 17 GHz  | 140 kHz    | PK+ ; AVG | 1 MHz     | 1 s        | 30 dB  |
| 17 GHz - 26 GHz | 300 kHz    | PK+ ; AVG | 1 MHz     | 1 s        | 0 dB   |

## FREQUENCY RANGE 30 MHz - 1 GHz

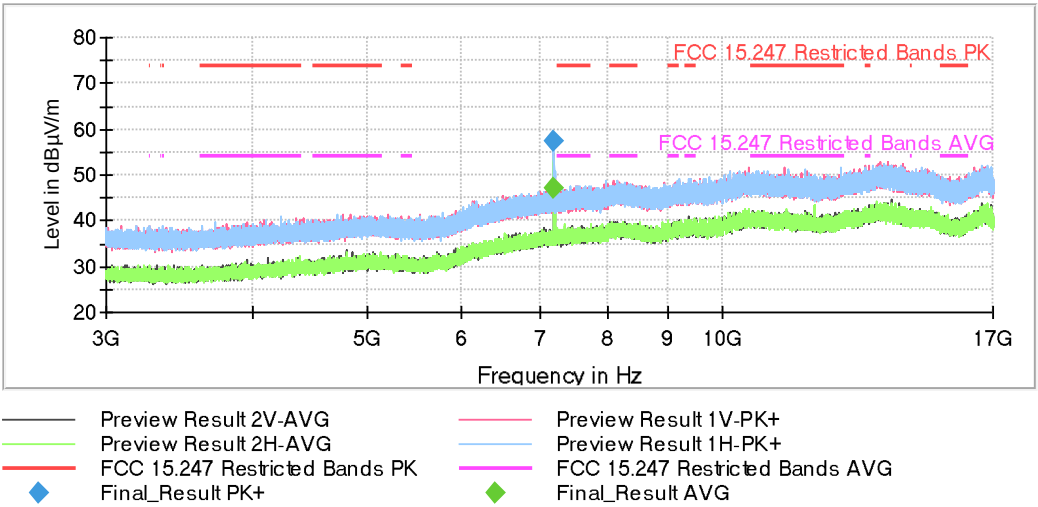


## FREQUENCY RANGE 1 - 3 GHz



The peak above the limit is the Bluetooth LE carrier frequency.

FREQUENCY RANGE 3 - 17 GHz



FREQUENCY RANGE 17 - 26 GHz

