

# FCC / ISED Test Report

For: Globe Tracker ApS

Model: LYNXFLEET-52L

Product Description: Asset Tracking Device / Data Modem

FCC ID: 2ASJR-LYNXFLEET-52L IC: 25752-LYNXFLEET52

Applied Rules and Standards: 47 CFR Part 15.247 (DTS) RSS-247 Issue 2 (DTSs) & RSS-Gen Issue 5

**REPORT #:** EMC\_GLOBE\_006\_22001\_FCC\_15\_247\_Rev1

DATE: 2023-01-23



A2LA Accredited

IC recognized # 3462B-1

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#### 1 Assessment

The following device was evaluated against the applicable criteria specified in FCC rules Parts 15.247 of Title 47 of the Code of Federal Regulations and the relevant ISED Canada standard RSS-247.

No deviations were ascertained.

| Company           | Description                        | Model #       |  |
|-------------------|------------------------------------|---------------|--|
| Globe Tracker ApS | Asset Tracking Device / Data Modem | LYNXFLEET-52L |  |

#### **Responsible for Testing Laboratory:**

|            | Arndt Stoecker |                                   |           |  |  |  |  |
|------------|----------------|-----------------------------------|-----------|--|--|--|--|
| 2023-01-23 | Compliance     | (Director of Regulatory Services) |           |  |  |  |  |
| Date       | Section        | Name                              | Signature |  |  |  |  |

# **Responsible for the Report:**

|            |            | Cheng Song     |           |
|------------|------------|----------------|-----------|
| 2023-01-23 | Compliance | (EMC Engineer) |           |
| Date       | Section    | Name           | Signature |

The test results of this test report relate exclusively to the test item specified in Section3.

CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM Inc. USA.



# 2 Administrative Data

# 2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

| Company Name:               | CETECOM Inc.           |
|-----------------------------|------------------------|
| Department:                 | Compliance             |
| Street Address:             | 411 Dixon Landing Road |
| City/Zip Code               | Milpitas, CA 95035     |
| Country                     | USA                    |
| Telephone:                  | +1 (408) 586 6200      |
| Fax:                        | +1 (408) 586 6299      |
| EMC Lab Manager:            | Arndt Stoecker         |
| Responsible Project Leader: | Akanksha Baskaran      |

# 2.2 Identification of the Client

| Client's Name:  | Globe Tracker ApS        |
|-----------------|--------------------------|
| Street Address: | Strandgade 91, 4th floor |
| City/Zip Code   | DK-1401 Copenhagen K     |
| Country         | Denmark                  |

# 2.3 Identification of the Manufacturer

| Manufacturer's Name:   |                |
|------------------------|----------------|
| Manufacturers Address: | Same as Client |
| City/Zip Code          |                |
| Country                |                |



# 3 Equipment Under Test (EUT)

# 3.1 EUT Specifications

| Model No:                                       | LYNXFLEET-52L  |  |  |
|---|--|--|--|
| HW Version :                                    | Rev2   |  |  |
| SW Version :                                    | 20.00.01   |  |  |
| FCC-ID :  | 2ASJR-LYNXFLEET-52L  |  |  |
| IC:   | 25752-LYNXFLEET52  |  |  |
| PMN:  | ML3 Asset Tracker  |  |  |
| Product Description:                            | Asset Tracking Device / Data Modem   |  |  |
| Radio Information:                              | <ul> <li>LoRa:</li> <li>Module: Semtech SX1262</li> <li>Frequency of Operation: 433 MHz, 863-870 MHz (EU), 902-928 MHz (NA)</li> </ul> |  |  |
| Antenna Information:                            | Peak gain -8.9 dBí   |  |  |
| Power Supply/ Rated<br>Operating Voltage Range: | AC Input: Voltage Range: 12-36 VAC, Frequency: 50/60 Hz<br>DC Input: Voltage Range: 9-18 VDC<br>Lithium Ion Battery                    |  |  |
| Operating Temperature<br>Range                  | -25 °C to 70 °C  |  |  |
| Sample Revision                                 | □Prototype Unit; □Production Unit; ■Pre-Production   |  |  |



## 3.2 EUT Sample details

| EUT # | Model Number  | HW Version | SW Version              | Notes/Comments     |  |  |
|-------|---------------|------------|-------------------------|--------------------|--|--|
| 1     | LYNXFLEET-52L | Rev2       | 2 20.00.01 Conducted RF |                    |  |  |
| 2     | LYNXFLEET-52L | Rev2       | 20.00.01                | Radiated Emissions |  |  |

# 3.3 Accessory Equipment (AE) details

| AE # | Туре | Model | Manufacturer | Serial Number |
|------|------|-------|--------------|---------------|
| 1    |      |       |              |               |

# 3.4 Test Sample Configuration

| EUT Set-up # | Combination of AE used for test set up | Comments   |
|--------------|--|--|
| 1            | EUT#1                                  | The radio of the EUT was configured to a fixed channel transmission with highest possible duty cycle using software that is not available to the end user. The measurement equipment was connected to the 50 ohm RF port of the EUT. |
| 2            | EUT#2                                  | The radio of the EUT was configured to a fixed channel transmission with highest possible duty cycle using software that is not available to the end user. The internal antenna was connected.                                       |

# 3.5 Justification for Worst Case Mode of Operation

During the testing process, the EUT was tested with transmitter sets on low, mid and high channels, and highest possible duty cycle. For radiated measurements, all data in this report shows the worst case between horizontal and vertical antenna polarizations and for all orientations of the EUT. The worst case is antenna in vertical polarization and EUT in Y-axis.



# 4 Subject of Investigation

The objective of the measurements done by CETECOM Inc. was to assess the performance of the EUT according to the relevant requirements specified in FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations and Radio Standard Specification RSS-247 of ISED Canada.

# 5 Measurement Results Summary

| Test Specification                           | Test Case                                       | Temperature and<br>Voltage Conditions | Mode | Pass | NA | NP | Result   |
|--|---|---------------------------------------|------|------|----|----|----------|
| §15.247(a)(1)<br>RSS-247 5.2(a)              | Emission Bandwidth                              | Nominal                               | LoRa |      |    |    | Complies |
| §15.247(e)<br>RSS-247 5.2(b)                 | Power Spectral Density                          | Nominal                               | LoRa |      |    |    | Complies |
| §15.247(b)(1)<br>RSS-247 5.4(d)              | Maximum Conducted<br>Output Power and EIRP      | Nominal                               | LoRa |      |    |    | Complies |
| §15.247(d)<br>RSS-247 5.5                    | Band edge compliance<br>Unrestricted Band Edges | Nominal                               | LoRa |      |    |    | Complies |
| §15.247; 15.209; 15.205<br>RSS-Gen 8.9; 8.10 | Band edge compliance<br>Restricted Band Edges   | Nominal                               | LoRa |      |    |    | Complies |
| §15.247(d); §15.209<br>RSS-Gen 6.13          | TX Spurious emissions-<br>Radiated              | Nominal                               | LoRa |      |    |    | Complies |
| §15.207(a)<br>RSS Gen 8.8                    | AC Conducted Emissions                          | Nominal                               |      |      |    |    | Note 2   |

**Note 1**: NA= Not Applicable; NP= Not Performed.

Note 2: EUT powered by battery. Device does not draw power from public mains



# 6 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus, with 95% confidence interval (in dB delta to result), based on a coverage factor k=2.

| Measurement System               | EMC 1   | EMC 2   |
|----------------------------------|---------|---------|
| Conducted Emissions (mains port) | 1.12 dB | 0.46 dB |
| Radiated Emissions               |         |         |
| (<30 MHz)                        | 3.66 dB | 3.88 dB |
| (30 MHz – 1 GHz)                 | 3.17 dB | 3.34 dB |
| (1 GHz – 3 GHz)                  | 5.01 dB | 4.45 dB |
| (> 3 GHz)                        | 4.0 dB  | 4.79 dB |

# 6.1 Environmental Conditions During Testing:

The following environmental conditions were maintained during the course of testing:

- Ambient Temperature: 20-25° C
- Relative humidity: 40-60%

# 6.2 Dates of Testing:

12/20/2022

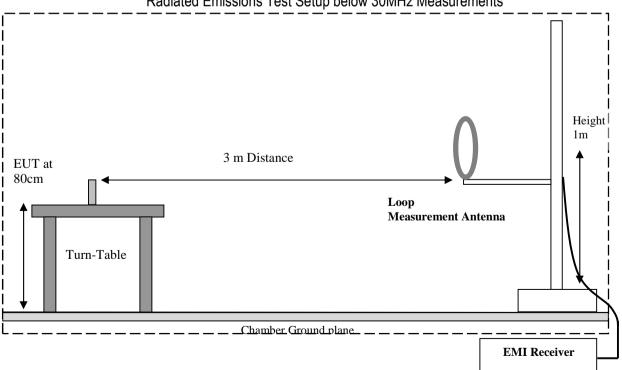


#### 7 Measurement Procedures

#### 7.1 Radiated Measurement

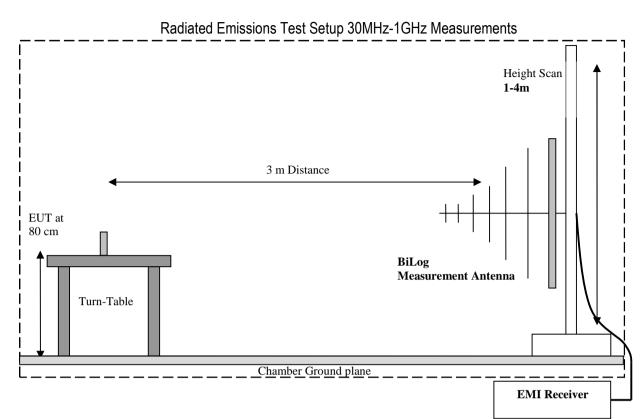
The radiated measurement is performed according to ANSI C63.10 (2013)

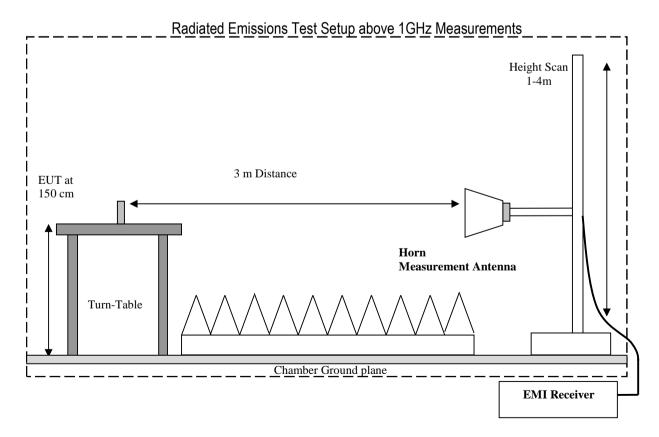
- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to cover the 3 orthogonal axis of the EUT. A max peak detector is utilized during the exploratory measurement. The Test-SW creates an overall maximum trace for all 12 sweeps and saves the settings for each point of this trace. The maximum trace is part of the test report.
- The 10 highest emissions are selected with an automatic algorithm of EMC32 searching for peaks in the noise floor and ensuring that broadband signals are not selected multiple times.
- The maxima are then put through the final measurement and again maximized in a 90deg range of the turntable, fine search in frequency domain and height scan between 1m and 4m.
- The above procedure is repeated for all possible ways of power supply to EUT and for all supported modulations.
- In case there are no emissions above noise floor level only the maximum trace is reported as described above.
- The results are split up into up to 4 frequency ranges due to antenna bandwidth restrictions. A magnetic loop
  is used from 9 kHz to 30 MHz, a Biconilog antenna is used from 30 MHz to 1 GHz, and two different horn
  antennas are used to cover frequencies up to 40 GHz.



# Radiated Emissions Test Setup below 30MHz Measurements









# 7.1.1 Sample Calculations for Field Strength Measurements

Field Strength is calculated from the Spectrum Analyzer/ Receiver readings, taking into account the following parameters:

- 1. Measured reading in  $dB\mu V$
- 2. Cable Loss between the receiving antenna and SA in dB and
- 3. Antenna Factor in dB/m

All radiated measurement plots in this report are taken from a test SW that calculates the Field Strength based on the following equation:

FS (dB $\mu$ V/m) = Measured Value on SA (dB $\mu$ V) + Cable Loss (dB) + Antenna Factor (dB/m)

Example:

| Frequency<br>(MHz) | Measured SA<br>(dBµV) | Cable Loss<br>(dB) | Antenna Factor<br>Correction<br>(dB) | Field Strength<br>Result (dBµV/m) |
|--------------------|-----------------------|--------------------|--------------------------------------|-----------------------------------|
| 1000               | 80.5                  | 3.5                | 14                                   | 98.0                              |

# 7.2 Power Line Conducted Measurement Procedure

AC Power Line conducted emissions measurements performed according to: ANSI C63.4 (2014)

# 7.3 RF Conducted Measurement Procedure

Testing procedures are based on 558074 D01 15.247 Meas Guidance v05r02 – "GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES" - April 2, 2019, by the Federal Communications Commission, Office of Engineering and Technology, Laboratory Division.



- Connect the equipment as shown in the above diagram.
- Adjust the settings of the SA (Rohde-Schwarz Spectrum Analyzer) to connect the EUT at the required mode of test.
- Measurements are to be performed with the EUT set to the low, middle and high channels and for worst case modulation schemes.



# 8 <u>Test Result Data</u>

# 8.1 Maximum Peak Conducted Output Power

## 8.1.1 Measurement according to FCC 558074 D01 15.247 Meas Guidance v05r02

#### Spectrum Analyzer settings:

- RBW  $\geq$  DTS bandwidth
- VBW  $\geq$  3 x RBW
- Span  $\geq$  3 x RBW
- Sweep = Auto couple
- Detector function = Peak
- Trace = Max hold
- Use peak marker function to determine the peak amplitude level

# 8.1.2 Limits:

#### Maximum Peak Output Power:

- FCC §15.247 (b)(1): 1 W
- IC RSS-247: 1 W

# 8.1.3 Test conditions and setup:

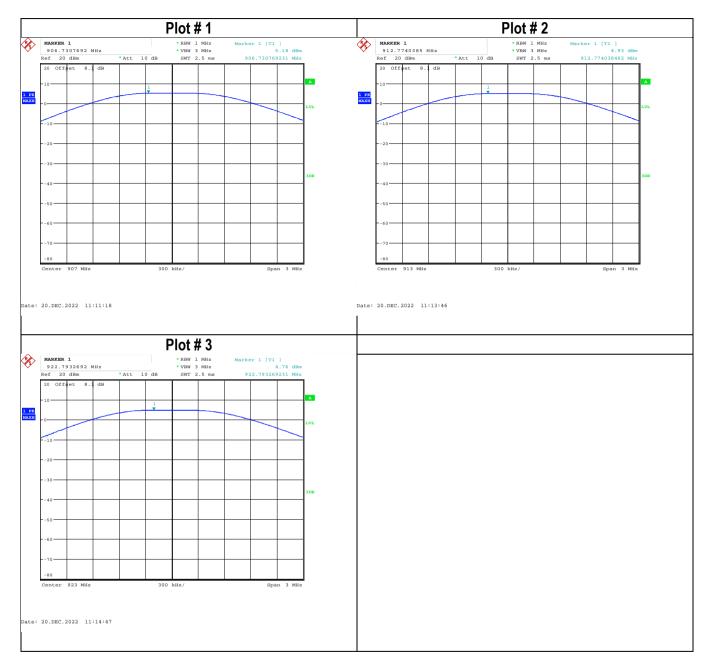
| Ambient Temperature | EUT Set-Up # | EUT operating mode | Power Input | Antenna Gain |
|---------------------|--------------|--------------------|-------------|--------------|
| 22° C               | 1            | LoRa               | Battery     | -8.9 dBi     |

#### 8.1.4 Measurement result:

| Plot<br># | Frequency<br>(MHz) | Maximum Peak Conducted Output<br>Power (dBm) | EIRP<br>(dBm) | Limit<br>(dBm)      | Result |
|-----------|--------------------|--|---------------|---------------------|--------|
| 1         | 907                | 5.18   | -3.72         | 30 (Pk) / 36 (EIRP) | Pass   |
| 2         | 913                | 4.93   | -3.97         | 30 (Pk) / 36 (EIRP) | Pass   |
| 3         | 923                | 4.76   | -4.14         | 30 (Pk) / 36 (EIRP) | Pass   |



# 8.1.5 Measurement Plots:



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#### 8.2 Power Spectral Density

## 8.2.1 Measurement according to FCC 558074 D01 15.247 Meas Guidance v05r02

#### Spectrum Analyzer settings for Peak PSD method:

- Set analyzer center frequency to DTS channel center frequency
- Set the span to 1.5 x DTS bandwidth
- Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
- Set the VBW  $\geq$  3 x RBW
- Detector = Peak
- Sweep time = Auto couple
- Trace mode = Max hold
- Allow trace to fully stabilize
- Use the peak marker function to determine the maximum amplitude level within the RBW
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat

# 8.2.2 Limits:

FCC§15.247(e) & RSS-247 5.2(b)

• For digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

# 8.2.3 Test conditions and setup:

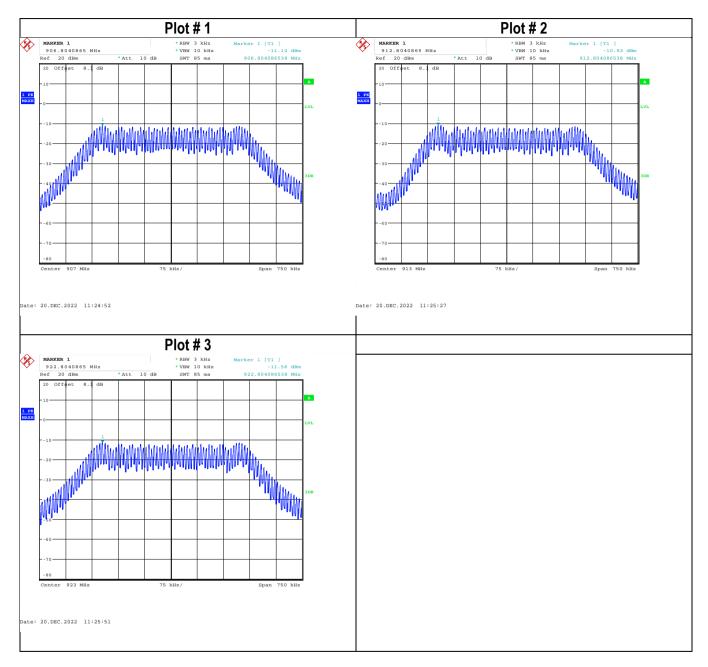
| Ambient Temperature | EUT Set-Up # | EUT operating mode | Power Input | Antenna Gain |
|---------------------|--------------|--------------------|-------------|--------------|
| 22° C               | 1            | LoRa               | Battery     | -8.9 dBi     |

#### 8.2.4 Measurement result:

| Plot # | Frequency<br>(MHz) | Maximum<br>Power Spectral Density<br>(dBm/3 kHz) | Limit<br>( dBm / 3 kHz ) | Result |
|--------|--------------------|--|--------------------------|--------|
| 1      | 907                | -11.12   | 8                        | Pass   |
| 2      | 913                | -10.92   | 8                        | Pass   |
| 3      | 923                | -11.56   | 8                        | Pass   |



# 8.2.5 Measurement Plots:





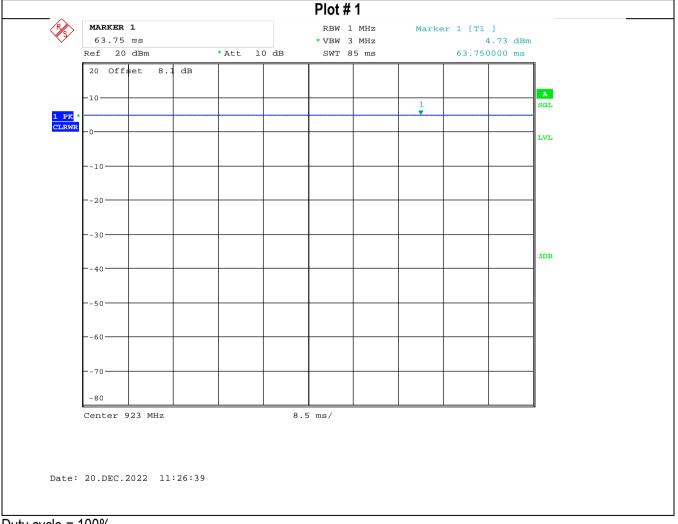
# 8.3 Duty cycle

#### 8.3.1 Measurement according to FCC 558074 D01 15.247 Meas Guidance v05r02

#### Spectrum Analyzer settings:

- Set the center frequency and of the instrument to the center frequency of the transmission
- Zero span
- Set RBW >=OBW if possible; otherwise, set RBW to the largest available value
- Detector = Peak or average

#### 8.3.2 Measurement result



Duty cycle = 100%Duty cycle correction factor =  $10*\log(1/1) = 0$  dB



## 8.4 Band Edge Compliance

#### 8.4.1 Measurement according to FCC 558074 D01 15.247 Meas Guidance v05r02

#### Spectrum Analyzer settings for band edge:

- Set the center frequency and span to encompass frequency range to be measured
- RBW = 100 kHz
- VBW  $\geq$  3 x RBW
- Sweep Time: Auto couple
- Detector = Peak
- Trace = Max hold
- Allow trace to fully stabilize
- Use the peak marker function to determine the maximum amplitude level
- Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge

## 8.4.2 Limits non restricted band:

FCC§15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

#### RSS-247 5/5

 In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB.

#### Spectrum Analyzer settings for restricted band:

• Peak measurements are made using a peak detector and RBW=1 MHz



#### 8.4.3 Limits restricted band §15.247/15.209/15.205 and RSS-Gen 8.9/8.10

- \*PEAK LIMIT= 74 dBµV/m @3m =-21.23 dBm
- \*AVG. LIMIT= 54 dBµV/m @3m =-41.23 dBm
- Start frequency & stop frequency according to frequency range specified in the restricted band table in FCC section 15.205 & RSS-Gen 8.10
- Measurements with a peak detector were used to show compliance to average limits, thus showing compliance to both peak and average limits.
- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                      | MHz                 | MHz           | GHz         |
|--------------------------|---------------------|---------------|-------------|
| 0.090-0.110              | 16.42-16.423        | 399.9-410     | 4.5-5.15    |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525   | 608-614       | 5.35-5.46   |
| 2.1735-2.1905            | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |
| 4.125-4.128              | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775          | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775          | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.215-6.218              | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825          | 108-121.94          | 1718.8-1722.2 | 13.25-13.4  |
| 6.31175-6.31225          | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294              | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366              | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675          | 156.7-156.9         | 2690-2900     | 22.01-23.12 |
| 8.41425-8.41475          | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293             | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025        | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725        | 322-335.4           | 3600-4400     | Above 38.6  |
| 13.36-13.41              |                     |               |             |

#### 8.4.4 Test conditions and setup:

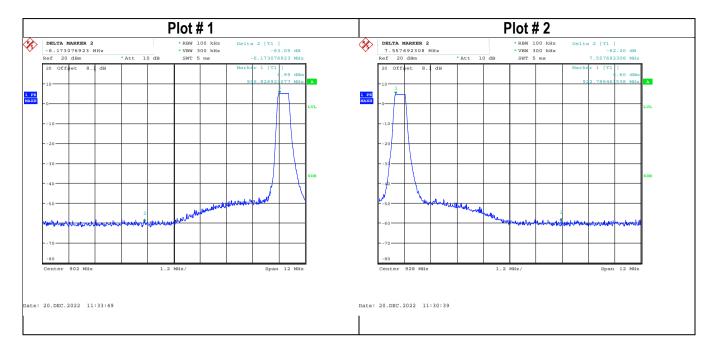
| Ambient Temperature | EUT Set-Up # | EUT operating mode | Power Input | Antenna Gain |
|---------------------|--------------|--------------------|-------------|--------------|
| 22° C               | 1            | LoRa               | Battery     | -8.9 dBi     |

#### 8.4.5 Measurement result:

| Plot<br># | EUT operating mode | Band Edge             | Band Edge Delta<br>(dBc) | Limit<br>(dBc) | Result |
|-----------|--------------------|-----------------------|--------------------------|----------------|--------|
| 1         | LoRa               | Lower, Non-restricted | 63.09                    | >20            | Pass   |
| 2         | LoRa               | Upper, Non-restricted | 62.20                    | >20            | Pass   |



## 8.4.6 Measurement Plots:





# 8.5 Emission Bandwidth 6dB and 99% Occupied Bandwidth

#### 8.5.1 Measurement according to FCC 558074 D01 15.247 Meas Guidance v05r02

#### Spectrum Analyzer settings:

6dB (DTS) Bandwidth:

- Set RBW = 100 kHz
- Set the video bandwidth (VBW)  $\geq$  3 x RBW
- Detector = Peak
- Trace mode = Max hold
- Sweep = Auto couple
- Allow the trace to stabilize
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 99% Occupied Bandwidth:

- Set frequency = nominal EUT channel center frequency
- Set Span = 1.5 x to 5.0 x OBW
- Set RBW = 1% to 5% of OBW
- Set the video bandwidth (VBW)  $\approx$  3 x RBW
- Detector = Peak
- Trace mode = Max hold
- Sweep = Auto couple
- Allow the trace to stabilize
- Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth
- If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

#### 8.5.2 Limits:

FCC §15.247(a)(2) and RSS-247 5.2(a)

• Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.



# 8.5.3 Test conditions and setup:

| Ambient Temperature | EUT Set-Up # | EUT operating mode | Power Input |
|---------------------|--------------|--------------------|-------------|
| 22° C               | 1            | LoRa               | Battery     |

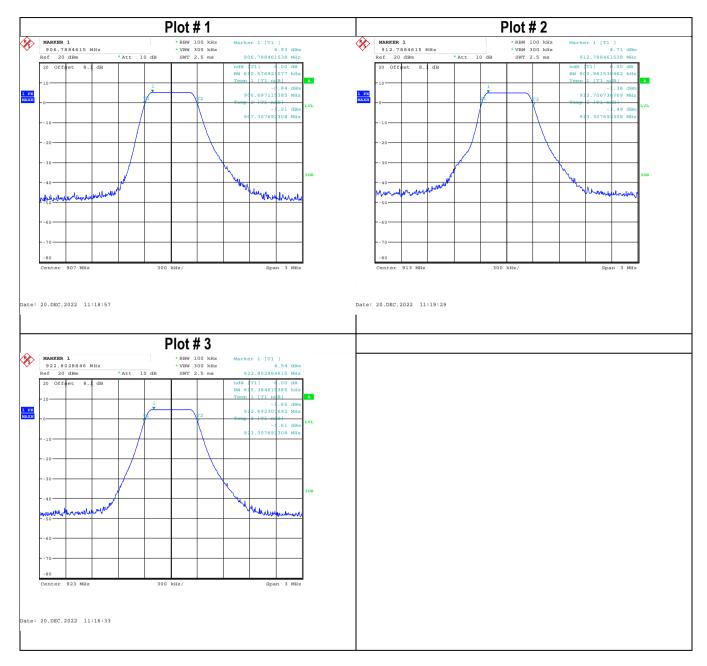
# 8.5.4 Measurement result:

| Plot # | Frequency (MHz) | 6dB Emissions Bandwidth (MHz) | Limit (MHz) | Result |
|--------|-----------------|-------------------------------|-------------|--------|
| 1      | 907             | 0.611                         | > 0.5       | Pass   |
| 2      | 913             | 0.601                         | > 0.5       | Pass   |
| 3      | 923             | 0.615                         | > 0.5       | Pass   |

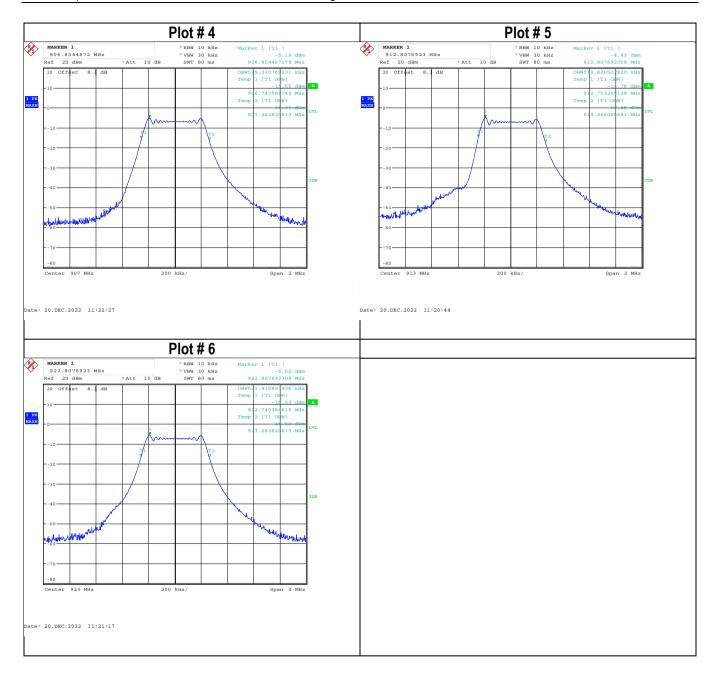
| Plot # | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|--------|-----------------|------------------------------|-------------|--------|
| 4      | 907             | 0.519                        | NA          | Pass   |
| 5      | 913             | 0.513                        | NA          | Pass   |
| 6      | 923             | 0.522                        | NA          | Pass   |



# 8.5.5 Measurement Plots:









# 8.6 Radiated Transmitter Spurious Emissions and Restricted Bands

# 8.6.1 Measurement according to ANSI C63.10 (2013)

#### Spectrum Analyzer Settings:

- Frequency = 9 KHz 30 MHz
- RBW = 9 KHz
- Detector: Peak
- Frequency = 30 MHz 1 GHz
- Detector = Peak / Quasi-Peak
- RBW= 120 KHz (<1GHz)
- Frequency > 1 GHz
- Detector = Peak / Average
- RBW = 1 MHz
- Radiated spurious emissions shall be measured for the transmit frequencies, transmit power, and data rate for the lowest, middle and highest channel in each frequency band of operation and for the highest gain antenna for each antenna type, and using the appropriate parameters and test requirements.
- The highest (or worst-case) data rate shall be recorded for each measurement.
- For testing frequencies below 30 MHz at distance other than the specified in the standard, the limit conversion is calculated by using the FCC materials for the ANSI 63 committee issued on January, 27 1991.

#### 8.6.2 Limits:

#### FCC §15.247

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).



# FCC §15.209 & RSS-Gen 8.9

• Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency of emission (MHz) | Field strength (µV/m) | Measurement Distance (m) | Field strength @ 3m (dBµV/m) |
|-----------------------------|-----------------------|--------------------------|------------------------------|
| 0.009–0.490                 | 2400/F(kHz) /         | 300                      | -                            |
| 0.490–1.705                 | 24000/F(kHz) /        | 30                       | -                            |
| 1.705–30.0                  | 30 / (29.5)           | 30                       | -                            |
| 30–88                       | 100                   | 3                        | 40 dBµV/m                    |
| 88–216                      | 150                   | 3                        | 43.5 dBµV/m                  |
| 216–960                     | 200                   | 3                        | 46 dBµV/m                    |
| Above 960                   | 500                   | 3                        | 54 dBµV/m                    |

# FCC §15.205 & RSS-Gen 8.10

• Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz               | MHz                 | MHz           | GHz         |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410     | 4.5-5.15    |
| 10.495-0.505      | 16.69475-16.69525   | 608-614       | 5.35-5.46   |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |
| 4.125-4.128       | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.215-6.218       | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825   | 108-121.94          | 1718.8-1722.2 | 13.25-13.4  |
| 6.31175-6.31225   | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294       | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900     | 22.01-23.12 |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293      | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025 | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725 | 322-335.4           | 3600-4400     | Above 38.6  |
| 13.36-13.41       |                     |               |             |

• Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

\*PEAK LIMIT= 74 dBµV/m \*AVG. LIMIT= 54 dBµV/m

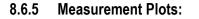


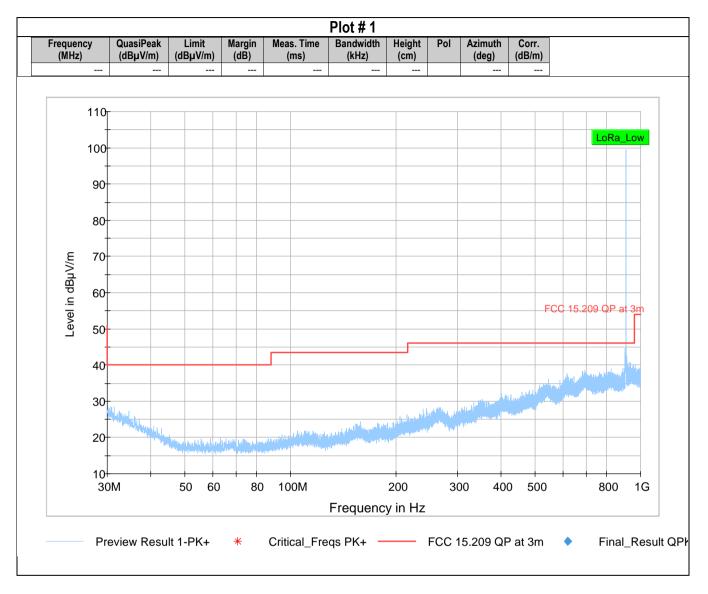
# 8.6.3 Test conditions and setup:

| Ambient Temperature | EUT Set-Up # | EUT operating mode | Power Input |
|---------------------|--------------|--------------------|-------------|
| 22° C               | 2            | LoRa               | Battery     |

#### 8.6.4 Measurement result:

| Plot # | Channel # | Channel # Scan Frequency |                   | Result |
|--------|-----------|--------------------------|-------------------|--------|
| 1-3    | Low       | 30 MHz – 18 GHz          | See section 8.6.2 | Pass   |
| 4-7    | Mid       | 9 kHz – 10 GHz           | See section 8.6.2 | Pass   |
| 8-10   | High      | 30 MHz – 18 GHz          | See section 8.6.2 | Pass   |





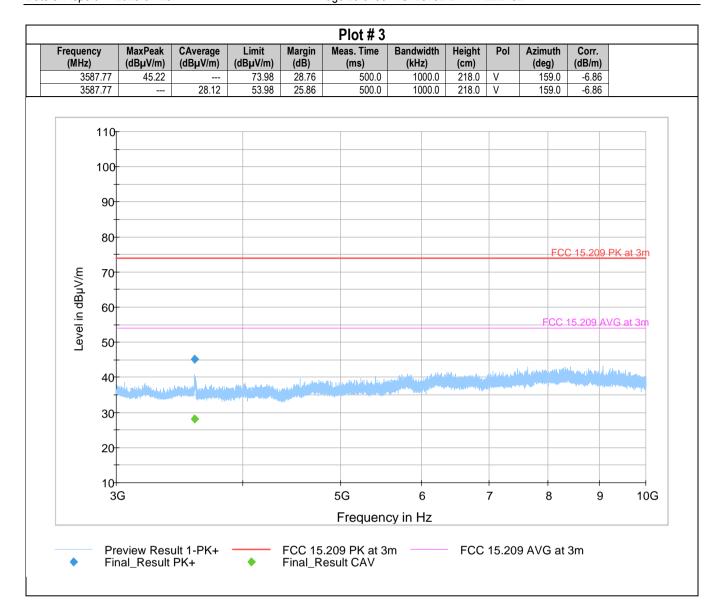
\_Rev1 FCC ID: 2ASJR-LYNXFLEET-52L Page 28 of 38 IC: 25752-LYNXFLEET52



| reque:<br>MHz)  | ncy             | MaxPeak<br>(dBµV/m) | CAverage<br>(dBµV/m) | Limit<br>(dBµV/m)  | Margin<br>(dB)                | Meas. Time<br>(ms)   | Bandwidth<br>(kHz)       | Height<br>(cm)                | Pol         | Azimuth<br>(deg)                        | Corr.<br>(dB/m) |                     |
|-----------------|-----------------|---------------------|----------------------|--------------------|-------------------------------|--|--------------------------|-------------------------------|-------------|---|-----------------|---------------------|
| (11112          |                 | (ubµv/iii)<br>      | (ubµv/iii)<br>       | (ubµt/iii)<br>     |                               |  |                          |                               |             | (ucg)<br>                               |                 |                     |
|                 |                 |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
|                 | 90 <sub>1</sub> |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
|                 | 85              |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
|                 | 80              |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
|                 | 75              |                     |                      |                    |                               |  |                          |                               |             | FC                                      | C 15.209 Pł     | <del>(at 3</del> m  |
|                 | 70              |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
|                 | +               |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
| Ĕ               | 65              |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
| ВμV             | 60              |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
| ind             | 55              |                     |                      |                    |                               |  |                          |                               |             | FCC                                     | 15.209 AVC      | <del>) at 3m</del>  |
| Level in dBµV/m | 50              |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
|                 | 45              |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
|                 | 40              |                     |                      |                    |                               | ų <sub>t</sub> <sub>lint</sub> Lengali perio <sup>i</sup> nstinatis<br>provensių etanosities marti <sup>12</sup> | line and store at which  | J                             | peligie dan | ni adam<br>Manakati                     |                 | ng bet ""<br>Sector |
|                 | 35              |                     | Walatika (kana)      | Alexand Installant | مرار بالاست.<br>مراجع معامل م | U patenti entre la facti<br>necesitari entre la fi <sup>sit</sup>  | والمتحدين ويتعادن ويلايه | a landa <sup>kal</sup> heriti | de a liniù  | an an Anna an Anna an Anna Anna Anna An |                 |                     |
|                 | 30              |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
|                 | 25              |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
|                 | 20              |                     |                      |                    |                               |  |                          |                               |             |   |                 |                     |
|                 | 10              | 6                   |                      |                    |                               |  | :                        | 2G                            |             |   |                 | 30                  |
|                 |                 |                     |                      |                    |                               | Frequen  | cy in Hz                 |                               |             |   |                 |                     |
|                 | - Dr            | eview Res           | ult 1_PK+            | *                  | Critical                      | _Freqs PK+   |                          | FCC                           | 15 20       | 9 PK at 3                               | m               |                     |
|                 |                 |                     | AVG at 3m            |                    | Final R                       | esult PK+  | •                        |                               |             | alt CAV                                 |                 |                     |

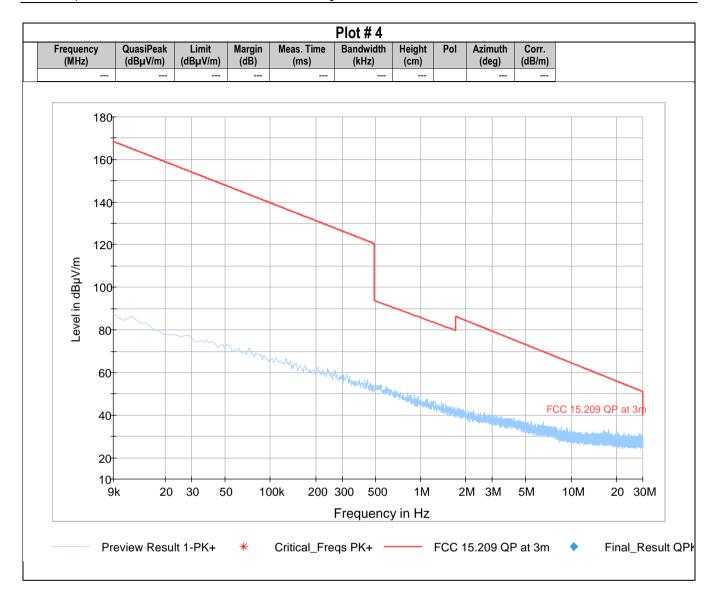
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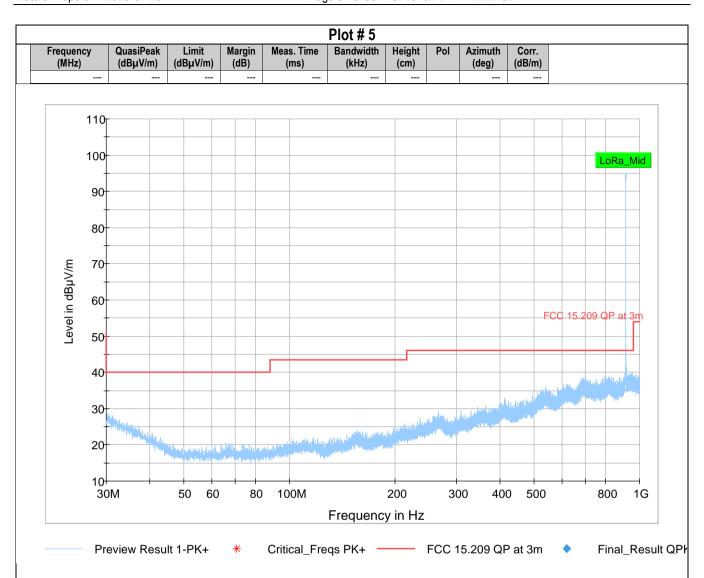


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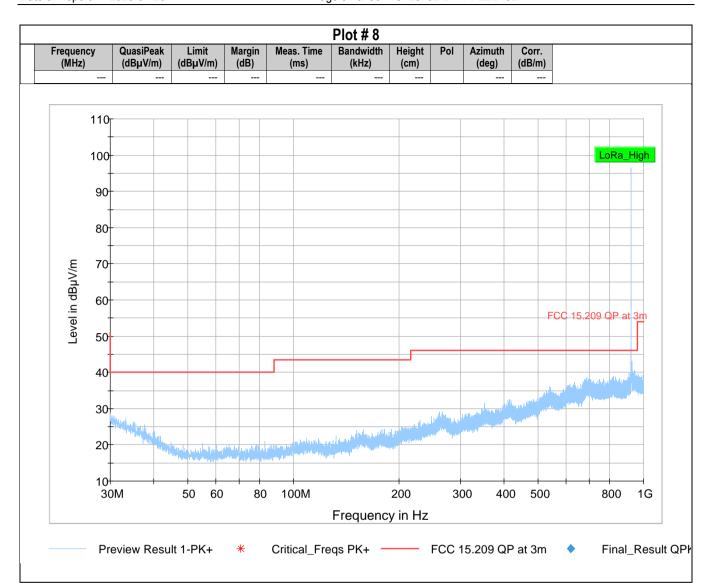
| reque<br>(MHz   | ncy<br>)        | MaxPeak<br>(dBµV/m) | CAverage<br>(dBµV/m)              | Limit<br>(dBµV/m) | Margin<br>(dB)    | Meas. Time<br>(ms)          | Bandwidth<br>(kHz) | Height<br>(cm)                 | Pol            | Azimuth<br>(deg)   | Corr.<br>(dB/m)  |                |
|-----------------|-----------------|---------------------|-----------------------------------|-------------------|-------------------|-----------------------------|--------------------|--------------------------------|----------------|--|--|----------------|
|                 |                 |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
|                 |                 |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
|                 | 90 <sub>1</sub> |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
|                 | 85              |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
|                 | 80              |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
|                 | 75              |                     |                                   |                   |                   |                             |                    |                                |                | FC   | C 15.209 PI  | K at 3m        |
|                 | 70              |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
|                 | 65              |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
| //m             | 60              |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
| Level in dBµV/m | +               |                     |                                   |                   |                   |                             |                    |                                |                |  | 45.000 41/0  |                |
| l in            | 55              |                     |                                   |                   |                   |                             |                    |                                |                | FCC  | -15.209 AVC  | <u>3 at 3m</u> |
| -eve            | 50              |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
| _               | 45              |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
|                 | 40              |                     |                                   |                   |                   |                             | والمراجع والمراجع  | ng lana <sup>an kard</sup> ika | Printan dia Pr | dentari de la composition de la composi  | al a la gran de la desta de la complete de la compl |                |
|                 | 35              | dadalahan adda      | ارو در استانان<br>سرو در معامین ا | And and a state   | alderford (n. 191 | nu çanlığı bi mathanın fili | ويقاب هاي          | a pantitiana                   |                | and the second sec |  |                |
|                 | 30              |                     | and an a standard and             | alle auforite for |                   |                             |                    |                                |                |  |  |                |
|                 | 25              |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
|                 | 20              |                     |                                   |                   |                   |                             |                    |                                |                |  |  |                |
|                 | 1G              | ì                   |                                   |                   |                   |                             |                    | 2G                             |                |  |  | 30             |
|                 |                 |                     |                                   |                   |                   | Frequen                     | cy in Hz           |                                |                |  |  |                |
|                 | - Dr            | eview Res           | ult 1_PK+                         | *                 | Critical          | _Freqs PK+                  |                    | FCC                            | 15 20          | 9 PK at 3  | m  |                |
|                 |                 |                     | AVG at 3m                         |                   | Final_R           | esult PK+                   | •                  |                                |                | It CAV   |  |                |

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| (MHz)<br><br>110-<br><br>100-<br> | (dBµV/m)<br>   | (dBµV/m)<br>        | (dBµV/m)<br>         | (dB)   | (ms)   | (kHz)   | (cm)        |   | (deg)   | (dB/m)                        |                |
|-----------------------------------|----------------|---------------------|----------------------|--|--|---|-------------|---|---|-------------------------------|----------------|
| +                                 |                |                     |                      |  |  |   |             |   |   |                               |                |
| -<br>100-<br>-                    |                |                     |                      |  |  |   |             |   |   |                               |                |
| +                                 |                |                     |                      |  |  |   |             |   |   |                               |                |
| 90                                |                |                     |                      |  |  |   |             |   |   |                               |                |
| -                                 |                |                     |                      |  |  |   |             |   |   |                               |                |
| 80-                               |                |                     |                      |  |  |   |             |   | FC  | C 15.209                      | PK at 3m       |
| Level in dBµV/m<br>00<br>20       |                |                     |                      |  |  |   |             |   |   |                               |                |
| in b                              |                |                     |                      |  |  |   |             |   | FCC   | 15.209 A                      | VG at 3m       |
| 9 50                              |                |                     |                      |  |  |   |             |   |   |                               |                |
| 40                                | and the second | January and and and | ر بالاتر الدانية الا |  | ng panahaga ka | مادير والديني<br>مادير والدينية<br>مادير وي مادير | la qua face |   | المعام <mark>المامينين.</mark><br>محمد منافع محمد | haladan aha<br>Mana ang ang a | A la bootstood |
| 30                                |                |                     | omili Buritine da    | and the second s | na ,   |   |             |   |   |                               |                |
| 20-                               |                |                     |                      |  |  |   |             |   |   |                               |                |
| 10+                               |                |                     |                      |  |  |   |             |   |   |                               |                |
| 30                                | G              |                     |                      |  | 5G<br>Frequen                                      | 6<br>cy in Hz                                     |             | 7 | 8   | 9                             | 100            |
| Pre                               | eview Res      | ult 1-PK+           | *                    | Critical_  | _Freqs PK+<br>esult PK+                            |   |             |   | 9 PK at 3i<br>ilt CAV                             | m                             |                |

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| requency<br>(MHz) | / MaxF<br>(dBµ)  | CAverage<br>(dBµV/m)  | Margin<br>n) (dB)                         | Plot # 9<br>Meas. Time<br>(ms)                | Bandwidth<br>(kHz)               | Height<br>(cm)                | Pol         | Azimuth<br>(deg)     | Corr.<br>(dB/m) |                  |
|-------------------|------------------|-----------------------|---|---|----------------------------------|-------------------------------|-------------|----------------------|-----------------|------------------|
| (11112)           |                  | <br>(ubµ (////)<br>   | <br>                                      |   |                                  |                               |             |                      |                 |                  |
|                   | 90⊤              |                       |   |   |                                  |                               |             |                      |                 |                  |
|                   | 35               |                       |   |   |                                  |                               |             |                      |                 |                  |
|                   | -                |                       |   |   |                                  |                               |             |                      |                 |                  |
|                   | 30-              |                       |   |   |                                  |                               |             | FC                   | C 15.209 PK a   | + 2m             |
|                   | 75 <u></u>       |                       |   |   |                                  |                               |             | FU                   | 15.209 PK 8     |                  |
|                   | ′0-<br>          |                       |   |   |                                  |                               |             |                      |                 |                  |
|                   | \$5 <del>-</del> |                       |   |   |                                  |                               |             |                      |                 |                  |
| %л€               | 50               |                       |   |   |                                  |                               |             |                      |                 |                  |
| Level in dBµV/m   | 55               |                       |   |   |                                  |                               |             | FCC                  | 15.209 AVG a    | <del>it 3n</del> |
| evel 4            | 50               |                       |   |   |                                  |                               |             |                      |                 |                  |
|                   | 15               |                       |   |   |                                  |                               |             |                      |                 |                  |
| 4                 | 10               |                       |   |   | والمتعادية والمتعادية            | ار می <sup>ر</sup> مراجع      | and a state |                      |                 |                  |
| 3                 | 35               |                       | dalla (periodenia)<br>Anangen periodenian | )<br>J. J. J | والمتعادية والمتعادية والمتعادين | le paint <sup>anta</sup> tion |             | an di Tillian        |                 |                  |
| 3                 | 30               | <br>                  |   |   |                                  |                               |             |                      |                 |                  |
| 2                 | 25               |                       |   |   |                                  |                               |             |                      |                 |                  |
| 2                 | 20               |                       |   |   |                                  |                               |             |                      |                 |                  |
|                   | 1G               |                       |   | -   |                                  | 2G                            |             |                      |                 | 30               |
|                   |                  |                       |   | Frequen                                       | cy in Hz                         |                               |             |                      |                 |                  |
|                   |                  | ult 1-PK+<br>AVG at 3 | Critical                                  | _Freqs PK+<br>Result PK+                      |                                  | FCC                           | 15.20       | 9 PK at 3<br>Ilt CAV | m               |                  |

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| Frequer<br>(MHz | су      | MaxPeak<br>(dBµV/m)                | CAverage<br>(dBµV/m)        | Limit<br>(dBµV/m)           | Margin<br>(dB) | Meas. Time<br>(ms)  | Bandwidth<br>(kHz) | Height<br>(cm)    | Pol             | Azimuth<br>(deg) | Corr.<br>(dB/m) |          |
|-----------------|---------|------------------------------------|-----------------------------|-----------------------------|----------------|---|--------------------|-------------------|-----------------|------------------|-----------------|----------|
|                 |         |                                    |                             |                             |                |   |                    |                   |                 |                  |                 |          |
|                 | 110     |                                    |                             |                             |                |   |                    |                   |                 |                  |                 |          |
|                 | 100     |                                    |                             |                             |                |   |                    |                   |                 |                  |                 |          |
|                 | 100     |                                    |                             |                             |                |   |                    |                   |                 |                  |                 |          |
|                 | 90      |                                    |                             |                             |                |   |                    |                   |                 |                  |                 |          |
|                 | 80      |                                    |                             |                             |                |   |                    |                   |                 |                  |                 |          |
| c               |         |                                    |                             |                             |                |   |                    |                   |                 | FCC              | C 15.209        | PK at 3m |
| μV/n            | 70      |                                    |                             |                             |                |   |                    |                   |                 |                  |                 |          |
| in dB           | 60      |                                    |                             |                             |                |   |                    |                   |                 |                  |                 |          |
| Level in dBµV/m | 50      |                                    |                             |                             |                |   |                    |                   |                 | FCC ·            | 15.209 A        | VG at 3m |
| _               | +       |                                    |                             |                             |                |   |                    |                   |                 |                  | a ha casti ca   |          |
|                 | 40      | hallow the Hold State State of the | and the lease of the second | parent light for the second | due sound the  | n ju laga na sa kumini ng katata<br>Manang katatan Manang katatan m |                    | aldan karibilina. | a pastanta anti |                  |                 |          |
|                 | 30      |                                    | en ander son ander son      | part folding states         | Let des Rate   | It I am to a second   |                    |                   |                 |                  |                 |          |
|                 | 20      |                                    |                             |                             |                |   |                    |                   |                 |                  |                 |          |
|                 | 20      |                                    |                             |                             |                |   |                    |                   |                 |                  |                 |          |
|                 | 10<br>3 |                                    |                             |                             |                | 5G  | 6                  |                   | 7               | 8                | 9               | 100      |
|                 |         |                                    |                             |                             |                | Frequen   | cy in Hz           |                   |                 |                  |                 |          |
|                 | Dr      | eview Res                          |                             | *                           | Critical       | _Freqs PK+  |                    | ECC               | 15 20           | 9 PK at 3i       | ~               |          |
|                 |         |                                    | AVG at 3m                   |                             | Final_R        | esult PK+   | ٠                  | Final             | _Rest           | lt CAV           |                 |          |



# 9 Test setup photos

Setup photos are included in supporting file name: "EMC\_GLOBE\_006\_22001\_FCC\_Setup\_Photos"

# 10 Test Equipment And Ancillaries Used For Testing

| Equipment Type      | Manufacturer    | Model     | Serial #  | Calibration Cycle | Last Calibration Date |
|---------------------|-----------------|-----------|-----------|-------------------|-----------------------|
| ACTIVE LOOP ANTENNA | ETS LINDGREN    | 6507      | 00161344  | 3 YEARS           | 10/30/2020            |
| BILOG ANTENNA       | ETS.LINDGREN    | 3142E     | 00166067  | 3 YEARS           | 10/21/2021            |
| HORN ANTENNA        | EMCO            | 3115      | 00035111  | 3 YEARS           | 09/30/2021            |
| HORN ANTENNA        | ETS.LINDGREN    | 3117      | 00215984  | 3 YEARS           | 01/31/2021            |
| TEST RECEIVER       | R&S             | ESU40     | 100251    | 3 YEARS           | 09/13/2021            |
| DIGITAL THRMOMETER  | CONTROL COMPANY | 36934-164 | 181230565 | 3 YEARS           | 10/20/2021            |

Note: Equipment used meets the measurement uncertainty requirements as required per applicable standards for 95% confidence levels.

Calibration due dates, unless defined specifically, falls on the last day of the month. Items indicated "N/A" for cal status either do not specifically require calibration or is internally characterized before use.



# 11 <u>History</u>

| Date       | Report Name                         | Changes to report                                | Prepared by |
|------------|-------------------------------------|--|-------------|
| 2023-01-13 | EMC_GLOBE_006_22001_FCC_15_247      | Initial Version                                  | Cheng Song  |
| 2023-01-23 | EMC_GLOBE_006_22001_FCC_15_247_Rev1 | Updated section 5 Measurement<br>Results Summary | Cheng Song  |

<<< The End >>>