# Report on the FCC Testing of the

Quake Global Inc

Satellite Modem, Model: QLocate (1158-5010)

Test Board, Model: N/A

# In accordance with FCC 47 CFR Part 25 and FCC 47 CFR Part 2

Prepared for: Quake Global Inc

4933 Paramount Drive

San Diego, California, CA92123

**UNITED STATES** 

FCC ID: PB5NQLOCATE

# **COMMERCIAL-IN-CONFIDENCE**

Document Number: 75941975-02 | Issue: 02



| RESPONSIBLE FOR      | NAME            | DATE           | SIGNATURE |
|----------------------|-----------------|----------------|-----------|
| Project Management   | Natalie Bennett | 29 August 2018 | Nones     |
| Authorised Signatory | Matthew Russell | 29 August 2018 | Dussell   |

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

#### **ENGINEERING STATEMENT**

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 25 and FCC 47 CFR Part 2. The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR | NAME             | DATE           | SIGNATURE  |  |
|-----------------|------------------|----------------|------------|--|
| Testing         | Jack Tuckwell    | 29 August 2018 | gha        |  |
| Testing         | Mehadi Choudhury | 29 August 2018 | Acher Stan |  |

**FCC Accreditation** 

90987 Octagon House, Fareham Test Laboratory

#### **EXECUTIVE SUMMARY**

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 25: 2017 and FCC 47 CFR Part 2: 2017.



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#### ACCREDITATION

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# 1 Report Summary

#### 1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

| Issue | Issue Description of Change |                |  |  |
|-------|-----------------------------|----------------|--|--|
| 1     | First Issue                 | 03 July 2018   |  |  |
| 2     | To amend the FCC ID         | 29 August 2018 |  |  |

#### 1.2 Introduction

Applicant Quake Global Inc Manufacturer Quake Global Inc

Model Number(s) Satellite Modem: QLocate (1158-5010)

Test Board: N/A

Declared Variant(s) QLocate (1158-5002)

QLocate (1158-5003)

Serial Number(s) Satellite Modem: IMEI: 300234030631340, S/N:

MX1749024710101 Test Board:N/A

Hardware Version(s) Rev X1
Software Version(s) TA16005
Number of Samples Tested 1 of each

Test Specification/Issue/Date FCC 47 CFR Part 25: 2017

FCC 47 CFR Part 2: 2017

Order Number PO9851

Date 15-February-2018

Date of Receipt of EUT 23-March-2018 and 29-March-2018

Start of Test 10-April-2018 Finish of Test 15-June-2018

Name of Engineer(s)

Jack Tuckwell and Mehadi Choudhury

Related Document(s) ANSI C63.26 (2015)

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#### 1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 25 and FCC 47 CFR Part 2 is shown below.

| Section       | Specification Clause                          |        | Test Description                        | Result | Comments/Base Standard |  |
|---------------|---|--------|---|--------|------------------------|--|
|               | Part 25 Part 2                                |        |   |        |                        |  |
| Configuration | Configuration and Mode: DC Powered - Transmit |        |   |        |                        |  |
| 2.1           | 25.202(f)                                     | 2.1051 | Radiated Spurious Emissions             | Pass   | ANSI C63.26 (2015)     |  |
| 2.2           | 25.202(f)                                     | 2.1051 | Spurious Emissions at Antenna Terminals | Pass   | ANSI C63.26 (2015)     |  |

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## 1.4 Application Form

| EQUIPMENT DESCRIPTION   |                           |  |  |  |
|---|---------------------------|--|--|--|
| Model Name/Number   | Model Name/Number QLocate |  |  |  |
| Part Number   | 1158-5002                 | 2/5003   |  |  |
| Hardware Version Rev X1   |                           |  |  |  |
| Software Version TA16005  |                           |  |  |  |
| FCC ID (if applicable)  |                           | PB5NQLOCATE  |  |  |
| Industry Canada ID (if applicable)  |                           | 4650A-QLOCATE  |  |  |
| Technical Description (Please provide a brief description of the intended use of the equipment) |                           | Qlocate is an Iridium Short Burst Data Transceiver available on two configurations, as a simple SBD transceiver and also one with integrated GPS/GLONASS receiver. |  |  |

|            | INTENTIONAL RADIATORS |                          |               |                         |            |                        |                 |                 |                 |
|------------|-----------------------|--------------------------|---------------|-------------------------|------------|------------------------|-----------------|-----------------|-----------------|
|            | Frequency             | Conducted<br>Declared    | Antenna       | Supported               | Modulation | ITU                    | Test (          | Channels (      | (MHz)           |
| Technology | Band<br>(MHz)         | Output<br>Power<br>(dBm) | Gain<br>(dBi) | Bandwidth (s)<br>(MHz)  | Scheme(s)  | Emission<br>Designator | Bottom          | Middle          | Тор             |
| Iridium    | 1616 to<br>1626.5     | 32                       | 3             | 31.5 kHz per<br>channel | DEQPSK     |                        | 1616.0<br>20833 | 1620.9<br>79087 | 1625.9<br>79007 |

| UN-INTENTIONAL RADIATOR   |            |  |  |  |  |
|---|------------|--|--|--|--|
| Highest frequency generated or used in the device or on which the device operates or tunes  | 1626.5 MHz |  |  |  |  |
| Lowest frequency generated or used in the device or on which the device operates or tunes   | 1608.0 MHz |  |  |  |  |
| Class A Digital Device (Use in commercial, industrial or business environment)   Class B Digital Device (Use in residential environment only)   □ |            |  |  |  |  |

| Power Source       |                      |                                     |                 |                 |  |
|--------------------|----------------------|-------------------------------------|-----------------|-----------------|--|
| 4.0                | Single Phase         | Single Phase Three Phase N/A N/A    |                 | Nominal Voltage |  |
| AC                 | N/A                  |                                     |                 | N/A             |  |
| External DC        | Nominal Voltage      |                                     | Maximum Current |                 |  |
| External DC        | 5 V                  |                                     | 1.5 A           |                 |  |
| Nominal Voltage    |                      | Battery Operating End Point Voltage |                 |                 |  |
| Battery N/A        |                      | N/A                                 |                 |                 |  |
| Can EUT transmit w | hilst being charged? |                                     | Yes 🗌 No 🗌      | ]               |  |



EXTREME CONDITIONS

Maximum temperature 85 °C Minimum temperature -40 °C

Ancillaries

Please list all ancillaries which will be used with the device.

Dual Band Antenna for SAT and GPS

Power Supply for +5 V

RS-232 Comm port

|             | ANTENNA CHARACTERISTICS     |      |         |                 |    |     |  |
|-------------|-----------------------------|------|---------|-----------------|----|-----|--|
| $\boxtimes$ | Antenna connector           |      |         | State impedance | 50 | Ohm |  |
|             | Temporary antenna connector |      |         | State impedance |    | Ohm |  |
|             | Integral antenna            | Туре |         |                 |    |     |  |
| $\boxtimes$ | External antenna            | Туре | Passive |                 |    |     |  |

I hereby declare that the information supplied is correct and complete.

Name: David Mitchell

Position held: VP, Customer Support Date: 23 March 2018



#### 1.5 Product Information

#### 1.5.1 Technical Description

Qlocate is an Iridium Short Burst Data transceiver available on two configurations, as a simple SBD transceiver and also one with integrated GPS/GLONASS receiver.

#### 1.6 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

#### 1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme. The modifications incorporated during each test are recorded on the appropriate test pages.

| Modification State  | State Description of Modification still fitted to EUT Modification Fitted By |                | Date Modification<br>Fitted |  |  |  |
|---|--|----------------|-----------------------------|--|--|--|
| Satellite Modem: Serial Number: IMEI: 300234030631340, S/N: MX1749024710101 |  |                |                             |  |  |  |
| 0   | As supplied by the customer  | Not Applicable | Not Applicable              |  |  |  |
| Test Board: Serial Number: N/A  |  |                |                             |  |  |  |
| 0   | As supplied by the customer  | Not Applicable | Not Applicable              |  |  |  |

Table 1

#### 1.8 Test Location

TÜV SÜD Product Service conducted the following tests at our Fareham Test Laboratory.

| Test Name                                     | Name of Engineer(s) | Accreditation |  |  |  |
|---|---------------------|---------------|--|--|--|
| Configuration and Mode: DC Powered - Transmit |                     |               |  |  |  |
| Radiated Spurious Emissions                   | Jack Tuckwell       | UKAS          |  |  |  |
| Spurious Emissions at Antenna Terminals       | Mehadi Choudhury    | UKAS          |  |  |  |

Table 2

Office Address:

Octagon House Concorde Way Segensworth North Fareham Hampshire PO15 5RL United Kingdom



#### 2 Test Details

#### 2.1 Radiated Spurious Emissions

#### 2.1.1 Specification Reference

FCC 47 CFR Part 25 Clause 25.202(f) FCC 47 CFR Part 2, Clause 2.1051

#### 2.1.2 Equipment Under Test and Modification State

Satellite Modem, QLocate (1158-5010), S/N: IMEI: 300234030631340, S/N: MX1749024710101 - Modification State 0

Test Board, S/N: N/A - Modification State 0

#### 2.1.3 Date of Test

10-April-2018 and 15-June-2018

#### 2.1.4 Test Method

The test was performed in accordance with KDB 971168 D01, Clause 7.

#### 2.1.5 Environmental Conditions

Ambient Temperature 20.0 to 21.0 °C Relative Humidity 40.0 to 43.0 %

#### 2.1.6 Test Results

#### DC Powered - Transmit

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| *               |             |

Table 3 - 1616.02833 MHz, 30 MHz to 1 GHz, Results Table

<sup>\*</sup>No emissions were found within 6 dB of the limit.



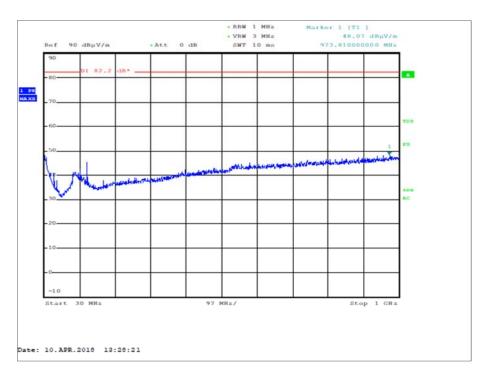


Figure 1 - 1616.02833 MHz - 30 MHz to 1 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: X



| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| *               |             |

Table 4 - 1616.02833 MHz, 1 GHz to 18 GHz - Results Table

\*No emissions were found within 6 dB of the limit.

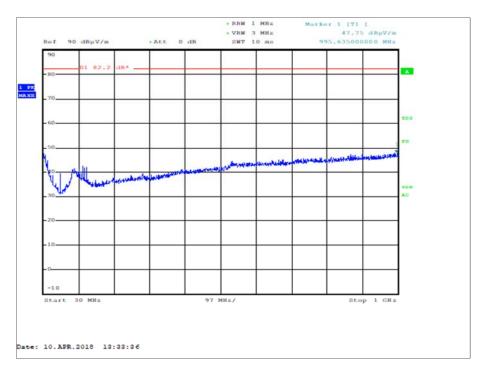


Figure 2 - 1616.02833 MHz - 30 MHz to 1 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Y



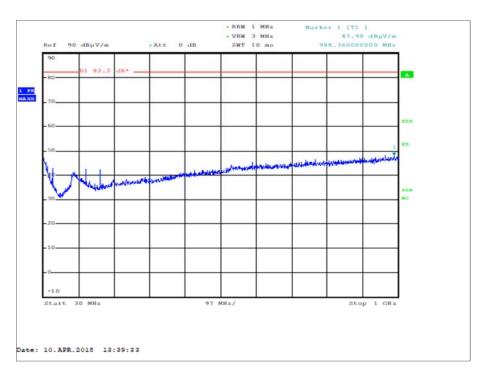


Figure 3 - 1616.02833 MHz - 30 MHz to 1 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Z

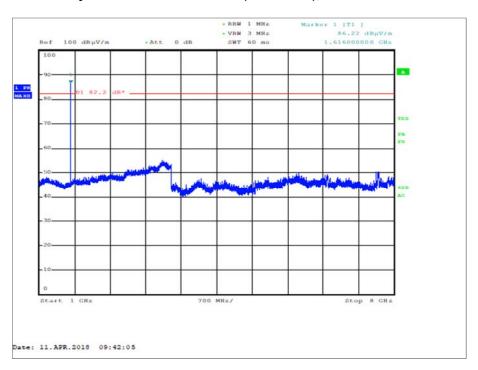


Figure 4 - 1616.02833 MHz - 1 GHz to 8 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: X



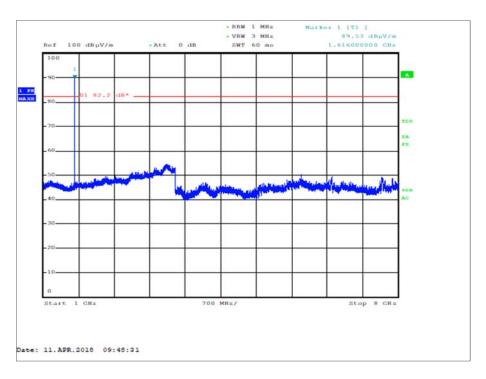


Figure 5 - 1616.02833 MHz - 1 GHz to 8 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Y

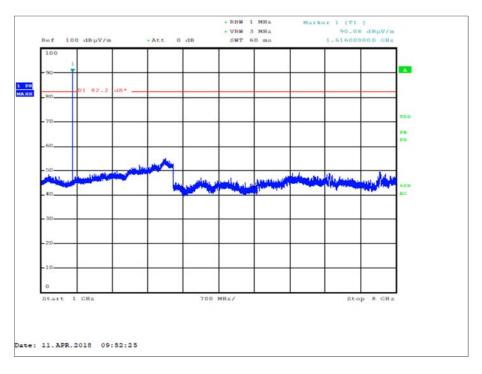


Figure 6 - 1616.02833 MHz - 1 GHz to 8 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Z



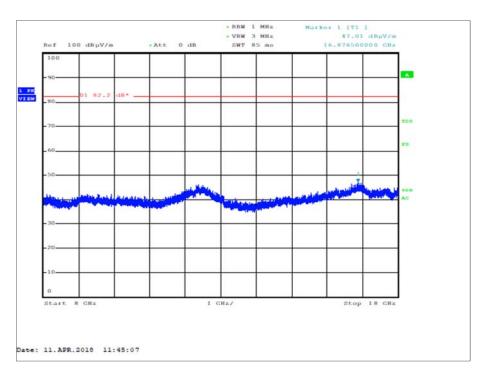


Figure 7 - 1616.02833 MHz - 8 GHz to 18 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: X

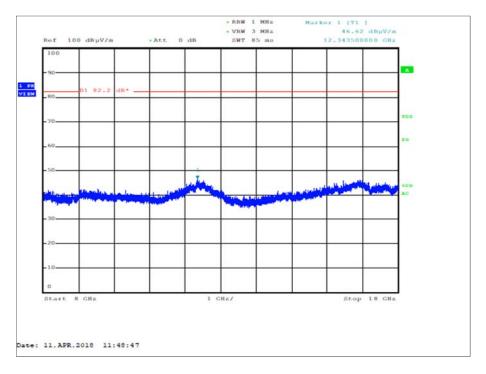


Figure 8 - 1616.02833 MHz - 8 GHz to 18 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Y



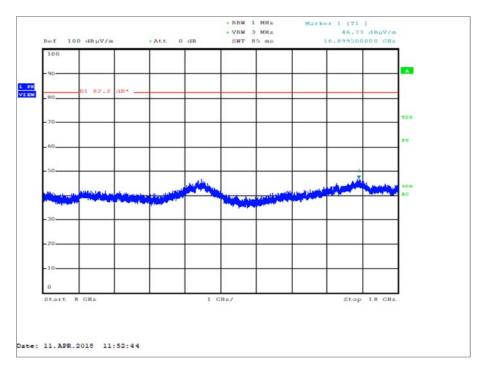


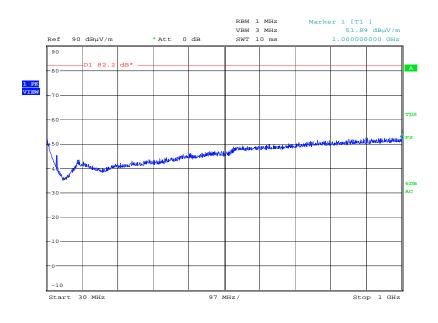
Figure 9 - 1616.02833 MHz - 8 GHz to 18 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Z



| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| *               |             |

Table 5 - 1625.979007 MHz, 30 MHz to 1 GHz, Results Table

\*No emissions were found within 6 dB of the limit.



Date: 15.JUN.2018 09:52:48

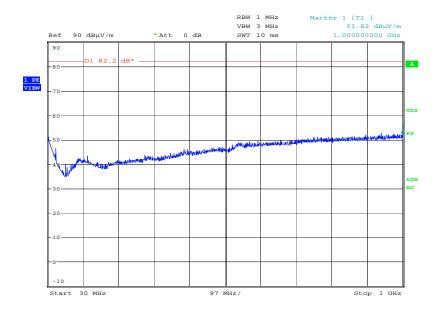
Figure 10 - 1625.979007 MHz - 30 MHz to 1 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: X



| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| *               |             |

Table 6 - 1625.979007 MHz, 1 GHz to 18 GHz - Results Table

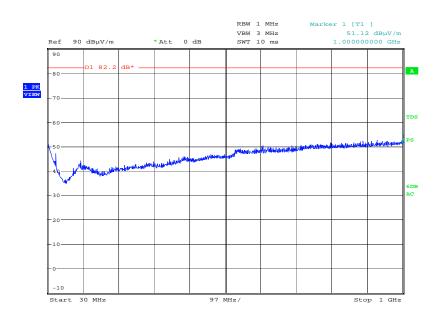
\*No emissions were found within 6 dB of the limit.



Date: 15.JUN.2018 10:04:25

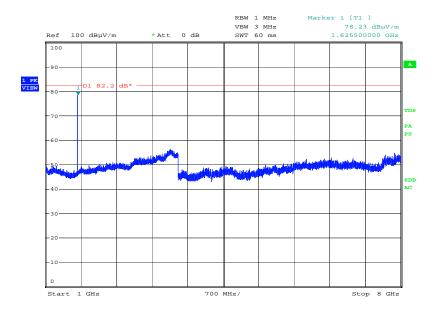
Figure 11 - 1625.979007 MHz - 30 MHz to 1 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Y





Date: 15.JUN.2018 10:08:31

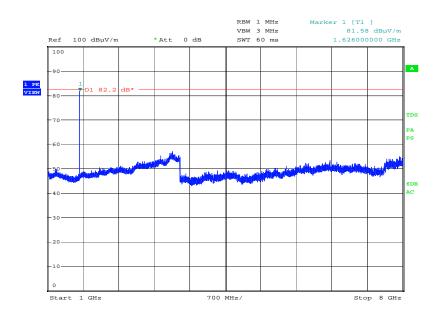
Figure 12 - 1625.979007 MHz - 30 MHz to 1 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Z



Date: 15.JUN.2018 10:41:08

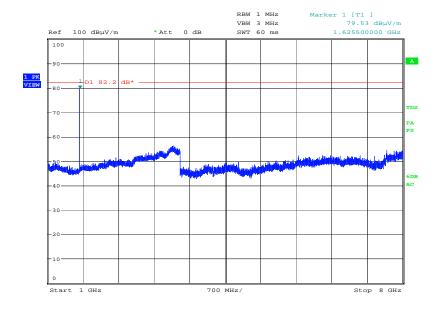
Figure 13 - 1625.979007 MHz - 1 GHz to 8 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: X





Date: 15.JUN.2018 10:31:44

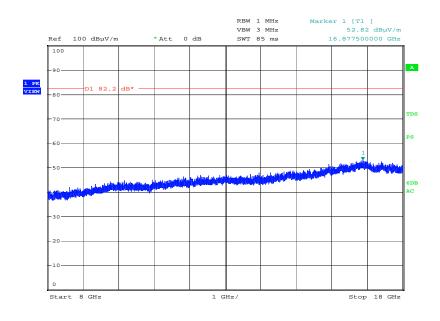
Figure 14 - 1625.979007 MHz - 1 GHz to 8 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Y



Date: 15.JUN.2018 10:36:17

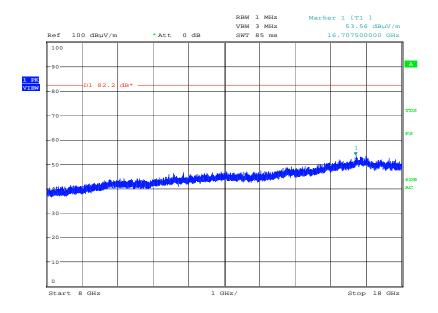
Figure 15 - 1625.979007 MHz - 1 GHz to 8 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Z





Date: 15.JUN.2018 11:07:20

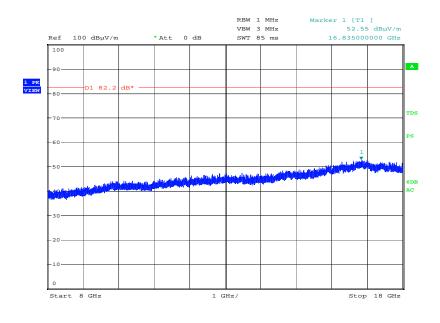
Figure 16 - 1625.979007 MHz - 8 GHz to 18 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: X



Date: 15.JUN.2018 11:11:47

Figure 17 - 1625.979007 MHz - 8 GHz to 18 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Y





Eiguro 49 4625 070007 MHz 9 CHz 40 49 C

Figure 18 - 1625.979007 MHz - 8 GHz to 18 GHz Polarity: Horizontal and Vertical (Combined), EUT Orientation: Z

#### FCC 47 CFR Part 2, Limit Clause 25.202(f)

Date: 15.JUN.2018 11:15:57

The average power of unwanted emissions shall be attenuated below the average output power, P(dBW), of the transmitter, as specified below:

25 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 50%, up to and including 100% of the authorised bandwidth;

35 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 100%, up to and including 250% of the authorised bandwidth;

43 + 10 Log p (watts) in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 250% of the authorised bandwidth.



## 2.1.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

| Instrument                              | Manufacturer        | Type No                 | TE No | Calibration<br>Period<br>(months) | Calibration Due |
|---|---------------------|-------------------------|-------|-----------------------------------|-----------------|
| Antenna (Bilog)                         | Schaffner           | CBL6143                 | 287   | 24                                | 18-Apr-2018     |
| Pre-Amplifier                           | Phase One           | PS04-0086               | 1533  | 12                                | 12-Jan-2019     |
| Screened Room (5)                       | Rainford            | Rainford                | 1545  | 36                                | 9-Jun-2018      |
| Turntable Controller                    | Inn-Co GmbH         | CO 1000                 | 1606  | -                                 | TU              |
| Hygromer                                | Rotronic            | A1                      | 2138  | 12                                | 21-Feb-2019     |
| Antenna (Bilog)                         | Chase               | CBL6143                 | 2904  | 24                                | 8-Aug-2019      |
| Cable (N-N, 8m)                         | Rhophase            | NPS-2302-8000-<br>NPS   | 3248  | 12                                | 2-May-2018      |
| EMI Test Receiver                       | Rohde & Schwarz     | ESU40                   | 3506  | 12                                | 22-Nov-2018     |
| Tilt Antenna Mast                       | maturo Gmbh         | TAM 4.0-P               | 3916  | -                                 | TU              |
| Mast Controller                         | maturo Gmbh         | NCD                     | 3917  | -                                 | TU              |
| 1GHz to 8GHz Low Noise<br>Amplifier     | Wright Technologies | APS04-0085              | 4365  | 12                                | 18-Oct-2018     |
| Cable (Rx, Km-Km 2m)                    | Scott Cables        | KPS-1501-2000-<br>KPS   | 4526  | 6                                 | 22-May-2018     |
| Cable (Rx, SMAm-SMAm 0.5m)              | Scott Cables        | SLSLL18-SMSM-<br>00.50M | 4528  | 6                                 | 15-Aug-2018     |
| Double Ridged<br>Waveguide Horn Antenna | ETS-Lindgren        | 3117                    | 4722  | 12                                | 1-Mar-2019      |
| Mast Controller                         | Maturo Gmbh         | NCD                     | 4810  | -                                 | TU              |
| Tilt Antenna Mast                       | Maturo Gmbh         | TAM 4.0-P               | 4811  | -                                 | TU              |
| Double Ridge Broadband<br>Horn Antenna  | Schwarzbeck         | BBHA 9120 B             | 4848  | 12                                | 12-Feb-2019     |
| 4dB Attenuator                          | Pasternack          | PE7047-4                | 4935  | 12                                | 28-Nov-2018     |

TU - Traceability Unscheduled



#### 2.2 Spurious Emissions at Antenna Terminals

#### 2.2.1 Specification Reference

FCC 47 CFR Part 25 Clause 25.202(f) FCC 47 CFR Part 2, Clause 2.1051

#### 2.2.2 Equipment Under Test and Modification State

Satellite Modem, QLocate (1158-5010), S/N: IMEI: 300234030631340, S/N: MX1749024710101 - Modification State 0

#### 2.2.3 Date of Test

25-April-2018

#### 2.2.4 Test Method

The test was performed in accordance with KDB 971168 D01, Clause 6.

#### 2.2.5 Environmental Conditions

Ambient Temperature 22.8 °C Relative Humidity 36.6 %

#### 2.2.6 Test Results

#### **DC Powered - Transmit**



Figure 19 - 1616.02833 MHz - Emission Mask



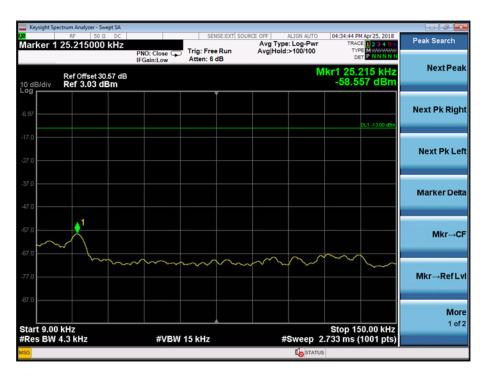


Figure 20 - 1616.02833 MHz - 9 kHz to 150 kHz

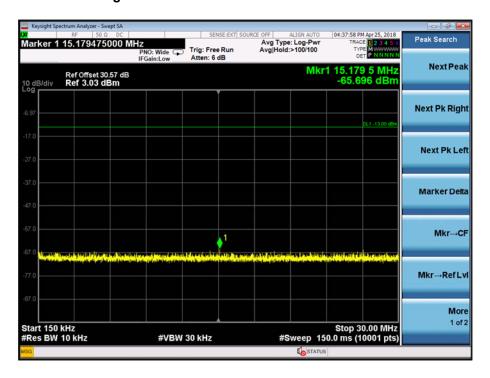


Figure 21 - 1616.02833 MHz - 150 kHz to 30 MHz



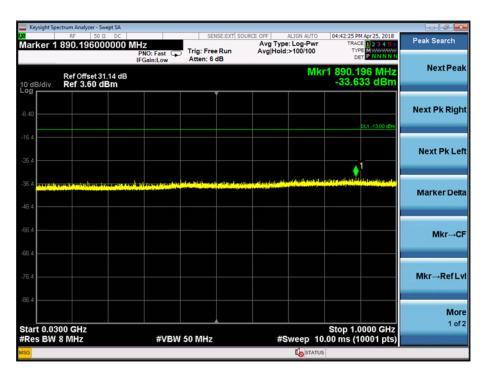


Figure 22 - 1616.02833 MHz - 30 MHz to 1 GHz

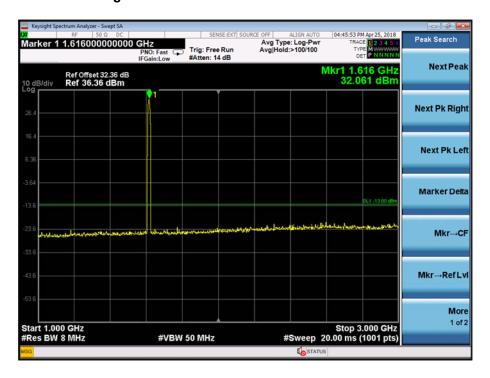


Figure 23 - 1616.02833 MHz - 1 GHz to 3 GHz



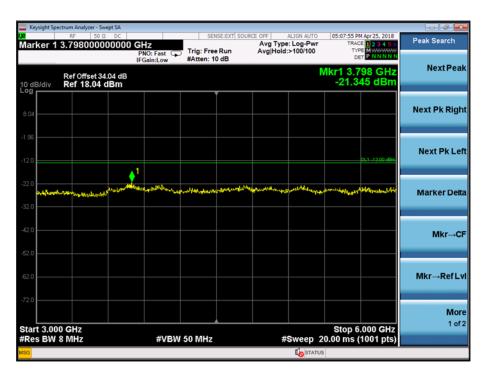


Figure 24 - 1616.02833 MHz - 3 GHz to 6 GHz



Figure 25 - 1616.02833 MHz - 6 GHz to 9 GHz



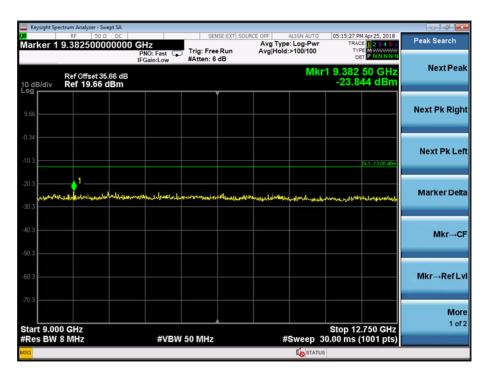


Figure 26 - 1616.02833 MHz - 9 GHz to 12.75 GHz

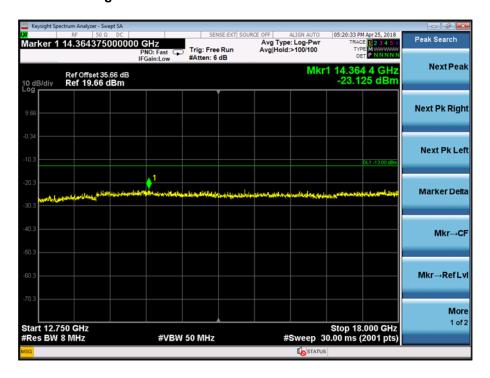


Figure 27 - 1616.02833 MHz - 12.75 GHz to 18 GHz





Figure 28 - 1625.979007 MHz - Emission Mask

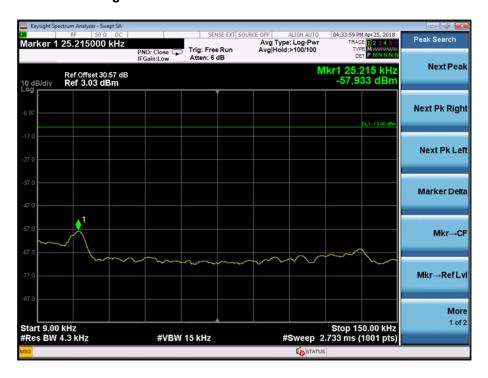


Figure 29 - 1625.979007 MHz - 9 kHz to 150 kHz



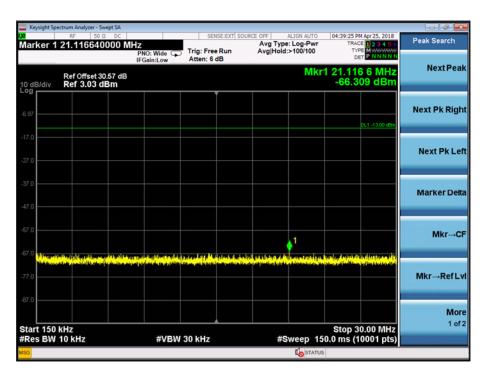


Figure 30 - 1625.979007 MHz - 150 kHz to 30 MHz

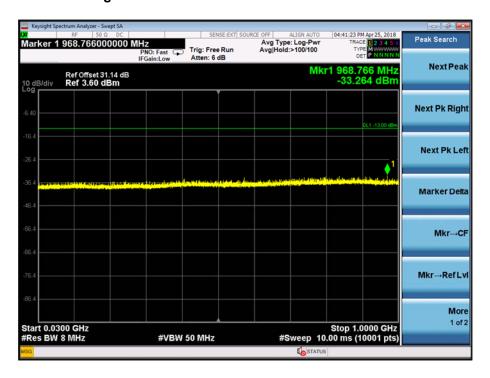


Figure 31 - 1625.979007 MHz - 30 MHz to 1 GHz



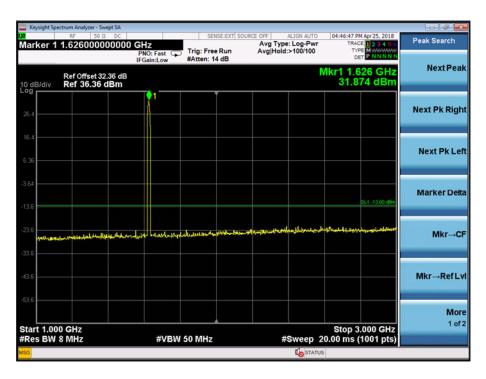


Figure 32 - 1625.979007 MHz - 1 GHz to 3 GHz

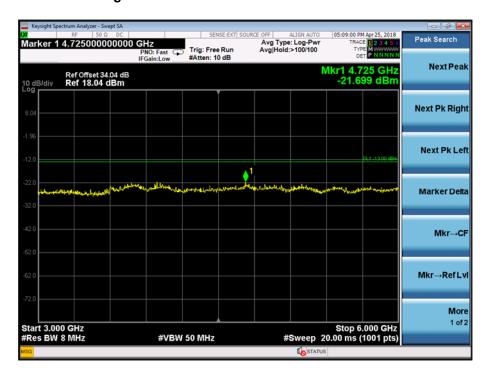


Figure 33 - 1625.979007 MHz - 3 GHz to 6 GHz



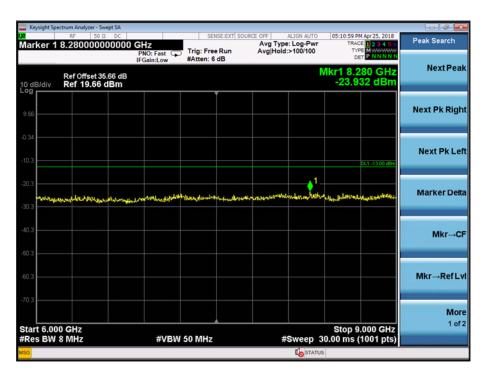


Figure 34 - 1625.979007 MHz - 6 GHz to 9 GHz



Figure 35 - 1625.979007 MHz - 9 GHz to 12.75 GHz



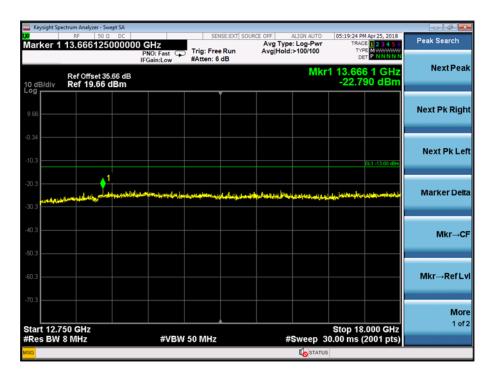


Figure 36 - 1625.979007 MHz - 12.75 GHz to 18 GHz

#### FCC 47 CFR Part 2, Limit Clause 25.202(f)

The average power of unwanted emissions shall be attenuated below the average output power, P(dBW), of the transmitter, as specified below:

- 1) 25 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 50%, up to and including 100% of the authorised bandwidth;
- 2) 35 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 100%, up to and including 250% of the authorised bandwidth;
- 3) 43 + 10 Log p (watts) in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 250% of the authorised bandwidth.



## 2.2.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

| Instrument                             | Manufacturer                   | Type No                        | TE No | Calibration<br>Period<br>(months) | Calibration Due |
|--|--------------------------------|--------------------------------|-------|-----------------------------------|-----------------|
| Attenuator (30dB/50W)                  | Aeroflex / Weinschel           | 47-30-34                       | 3164  | 12                                | 11-Jul-2018     |
| Attenuator (10dB, 50W)                 | Aeroflex / Weinschel           | 47-10-34                       | 3166  | 12                                | 20-Oct-2018     |
| Hygrometer                             | Rotronic                       | I-1000                         | 3220  | 12                                | 30-Aug-2018     |
| Function Generator                     | Thurlby Thandar<br>Instruments | TG2000                         | 3334  | -                                 | TU              |
| Network Analyser                       | Rohde & Schwarz                | ZVA 40                         | 3548  | 12                                | 2-Oct-2018      |
| '3.5mm' - '3.5mm' RF<br>Cable (2m)     | Rhophase                       | 3PS-1803-2000-<br>3PS          | 3702  | 12                                | 9-Feb-2019      |
| Calibration Unit                       | Rohde & Schwarz                | ZV-Z54                         | 4368  | 12                                | 6-Mar-2019      |
| Frequency Standard                     | Spectracom                     | Secure Sync 1200-<br>0408-0601 | 4393  | 6                                 | 20-Oct-2018     |
| Suspended Substrate<br>Highpass Filter | Advance Power<br>Components    | 11SH10-<br>3000/X18000-O/O     | 4412  | 12                                | 25-Apr-2018     |
| 2 metre SMA Cable                      | IW Microwave                   | 3PS-1806LC-788-<br>3PS         | 4829  | -                                 | O/P Mon         |

Table 7

TU - Traceability Unscheduled O/P Mon – Output Monitored using calibrated equipment



# 3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

| Test Name                               | Measurement Uncertainty                                |
|---|--|
| Radiated Spurious Emissions             | 30 MHz to 1 GHz: ± 5.2 dB<br>1 GHz to 18 GHz: ± 6.3 dB |
| Spurious Emissions at Antenna Terminals | ± 3.08 dB  |

Table 8