

FCC and ISED Test Report

Ericsson AB (EAB) Radio Unit, Product Name:
Radio 2012 B29

In accordance with FCC CFR 47 Part 2, FCC CFR
47 Part 27, ISED RSS-GEN and ISED RSS-130
(NR)

Prepared for: Ericsson AB (EAB)
Isafjordsgatan 10
Kista
164 80
SWEDEN



FCC: TA8AKRC161914
ISED ID: 287AB-AS161914

COMMERCIAL-IN-CONFIDENCE

Document 75951082-02 Issue 01

| SIGNATURE | | | |
|--------------|-----------------|----------------------|---------------|
| | | | |
| NAME | JOB TITLE | RESPONSIBLE FOR | ISSUE DATE |
| Steve Scarfe | Senior Engineer | Authorised Signatory | 25 March 2021 |

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD 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 FCC CFR 47 Part 2, FCC CFR 47 Part 27, ISED RSS-GEN and ISED RSS-130. The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR | NAME | DATE | SIGNATURE |
|-----------------|---------------|---------------|-----------|
| Testing | Graeme Lawler | 25 March 2021 | |

FCC Accreditation

90987 Octagon House, Fareham Test Laboratory

ISED Accreditation

IC#12669A Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with compliance FCC CFR 47 Part 2, FCC CFR 47 Part 27, ISED RSS-GEN and ISED RSS-130 for the tests detailed in section 1.3.

| | | |
|---|--|---|
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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 | Description of Change | Date of Issue |
|-------|-----------------------|---------------|
| 1 | First Issue | 25 March 2021 |

Table 1

1.2 Introduction

| | |
|-------------------------------|---|
| Applicant | Ericsson AB (EAB) |
| Manufacturer | Ericsson AB (EAB) |
| Product Name(s) | Radio 2012 B29 |
| Product Number(s) | KRC 161 914/1 |
| IC Model Name | AS161914 |
| Serial Number(s) | E23C233732 |
| Hardware Version(s) | CXP9017316/7 Rev R84KA |
| Software Version(s) | R5B |
| Number of Samples Tested | 1 |
| Test Specification/Issue/Date | FCC CFR 47 Part 2: 2019 FCC CFR 47 Part 27: 2019 ISED RSS-GEN: Issue 5: 2019 ISED RSS-130: Issue 2: 2019 |
| Non-Tested Variants | KRC 161 914/3 |
| Test Plan/Issue/Date | Radio 2012 B29 for FCC ISED test plan V 0.8 |
| Order Number | 9400786352 |
| Date | 14-October-2020 |
| Date of Receipt of EUT | 01-February-2021 |
| Start of Test | 01-March-2021 |
| Finish of Test | 02-March-2021 |
| Name of Engineer(s) | Graeme Lawler |
| Related Document(s) | ANSI C63.26:2015 KDB 971168 D01 v03r01 |



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 27, ISED RSS-GEN and ISED RSS-130 is shown below.

| Section | Specification Clause | | | | Test Description | Result | Comments/Base Standard |
|--|----------------------|--------|---------|---------|-----------------------------|--------|---|
| | Part 27 | Part 2 | RSS-GEN | RSS-130 | | | |
| Configuration and Mode: DC Powered - LTE 1 Carrier | | | | | | | |
| 2.1 | 27.53 | 2.1053 | 6.13 | 4.7 | Radiated Spurious Emissions | Pass | KDB 971168 D01 v03r01 ANSI C63.26:2015 |
| Configuration and Mode: DC Powered - LTE 2 Carriers | | | | | | | |
| 2.1 | 27.53 | 2.1053 | 6.13 | 4.7 | Radiated Spurious Emissions | Pass | KDB 971168 D01 v03r01 ANSI C63.26:2015 |
| Configuration and Mode: DC Powered – LTE 3 Carriers | | | | | | | |
| 2.1 | 27.53 | 2.1053 | 6.13 | 4.7 | Radiated Spurious Emissions | Pass | KDB 971168 D01 v03r01 ANSI C63.26:2015 |
| Configuration and Mode: DC Powered - NR 1 Carrier | | | | | | | |
| 2.1 | 27.53 | 2.1053 | 6.13 | 4.7 | Radiated Spurious Emissions | Pass | KDB 971168 D01 v03r01 ANSI C63.26:2015 |
| Configuration and Mode: DC Powered - NR 2 Carriers | | | | | | | |
| 2.1 | 27.53 | 2.1053 | 6.13 | 4.7 | Radiated Spurious Emissions | Pass | KDB 971168 D01 v03r01 ANSI C63.26:2015 |

Table 2



1.4 Application Form

| | | | |
|---|------------------------------------|---|--|
| Equipment Description | | | |
| Technical Description: (Please provide a brief description of the intended use of the equipment including the technologies the product supports) | Multi Standard Remote Radio | | |
| Manufacturer: | Ericsson AB | | |
| Model: | Radio 2012 B29 | | |
| Part Number: | KRC 161 914/1 | | |
| | KRC 161 914/3 | | |
| Hardware Version: | R5B | | |
| Software Version: | CXP9017316/7 R84KA | | |
| FCC ID of the product under test | TA8AKRC161914 | | |
| IC ID of the product under test | 287AB-AS161914 | | |
| Intentional Radiators | | | |
| Technology | NB IoT | LTE | NR |
| Frequency Range (MHz to MHz) | 717-728 MHz | 717-728 MHz | 717-728 MHz |
| Conducted Declared Output Power (dBm) | 43 | 46 | 46 |
| Antenna Gain (dBi) | 16 | 16 | 16 |
| Supported Bandwidth(s) (MHz) | 200 kHz | 5, 10 MHz | 3, 5, 10 MHz |
| Modulation Scheme(s)(e.g GFSK, QPSK etc) | QPSK | QPSK, 16QAM, 64QAM, 256QAM | QPSK, 16QAM, 64QAM, 256QAM |
| ITU Emission Designator (see guidance here) (not mandatory for Part 15 devices) | NB IoT 200 kHz BW channel: 209KW7D | LTE 5 MHz BW channel: 5M00W7D LTE 10 MHz BW channel: 10M0W7D | NR 5 MHz BW channel:4M47W7D NR 10 MHz BW channel: 9M29W7D |
| Bottom Frequency (MHz) | 717.2 | 718.5 | 719.5 |
| Middle Frequency (MHz) | 722.5 | 722.5 | 722.5 |
| Top Frequency (MHz) | 727.8 | 726.5 | 725.5 |
| Unintentional Radiators | | | |
| Highest frequency generated or used in the device or on which the device operates or tunes | CPRI 10,1 Gbit/s | | |
| Lowest frequency generated or used in the device or on which the device operates or tunes if <30MHz | - | | |
| Class A Digital Device (Use in commercial, industrial or business environment) | No | | |
| Class B Digital Device (Use in residential environment only) | Yes | | |
| AC Power Supply | | | |
| AC supply frequency: | - | | Hz |
| Voltage | - | | V |
| Max current: | - | | A |
| Single Phase - Yes/No | Three Phase - Yes/No | | |
| DC Power Supply | | | |
| Nominal voltage: | -48V | | |
| Extreme upper voltage: | -36V | | |
| Extreme lower voltage: | -58.5V | | |
| Max current: | 20A | | |
| Temperature | | | |
| Minimum temperature: | -40°C | | |
| Maximum temperature: | 55°C | | |



| Equipment Description | | | |
|--|--|---|---|
| Antenna Characteristics | | | |
| Antenna connector - Yes /No | State impedance | 50 | Ohm |
| Temporary antenna connector - Yes /No | State impedance | N/A | Ohm |
| Integral antenna - Yes /No | Type: | N/A | Gain N/A dBi |
| External antenna - Yes /No | Type: | Outdoor Directional Single-band Antenna | Gain 16 dBi |
| For external antenna only: | | | |
| Standard Antenna Jack | Yes /No | If yes, describe how user is prohibited from changing antenna (if not professional installed): | |
| Equipment is only ever professionally installed | Yes/ No | | |
| Non-standard Antenna Jack | Yes/ No | | |
| Note | The radio 2012 has no internal antenna. It has no RX and only TX. | | |
| Antenna detail specification | Not Applicable | | |
| Ancillaries | | | |
| Manufacturer: | Model: | Part Number: | Country of Origin: |
| CT10 | LPC 102487/1 | T01F265031 | Sweden |
| Delta PSU AC 02 | BML 901 250/1 | BW96903167 | Sweden |
| Port/Cable Identification | | | |
| Port | Type | Usage | Max Cable Length specified |
| Alarm/Fan | Signal cable | Signal cable connected to the the alarm/fan port | Refer to part no. RPM 513 2350/15000 |
| ALD | RET Cable, RET, and Signal Cable | RET-cable 1/TSR 484 21/3000 connected to the ALD -port and also a signal cable which is connected to the RET ATM200-A20 | Refer to part no. 1/TSR 484 21/3000, ATM200-A20 |
| I hereby declare that I am entitled to sign on behalf of the manufacturer and that the information supplied is correct and complete. | | | |
| Name: | Maria Shoaib | | |
| Position held: | Regulatory Approval Engineer | | |
| Email address: | maria.shoaib@ericsson.com | | |
| Telephone number: | 46724675234 | | |
| Date: | 23/03/2021 | | |

No responsibility will be accepted by TÜV SÜD UK Limited as to the accuracy of the information declared in this document by the manufacturer.

1.5 Product Information

1.5.1 Technical Description

The Equipment under test (EUT) was an Ericsson AB Radio 2012 B29 Radio Unit working in the public mobile service from 717-728 MHz band which provides communication connections to the 717-728 MHz network.

1.5.2 Test Setup Diagram(s)

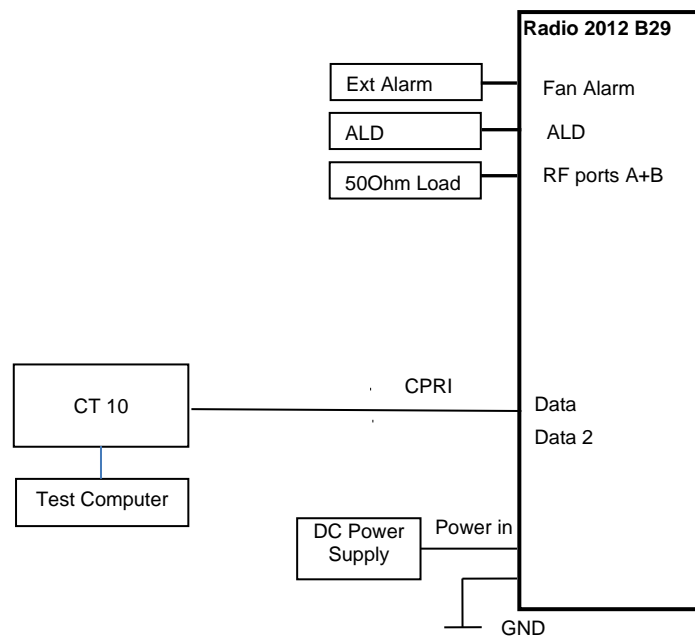


Figure 1

1.5.3 EUT Configuration and Rationale for Radiated Spurious Emissions

The EUT was mounted in a fixed position corresponding to its final installation position.

1.6 Deviations from the Standard

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



1.7 Additional Information

Ericsson have provided the following details about the variants of the Radio 2012 B29
*KRC 161 914/1 - has 4 ports with 2 ports antenna ports and 2 ports are the diplexer ports.
KRC 161 914/3 – has 2 antenna ports, no diplexer, new NEBS cover, different overlay.

Note*: Tests have been performed on this unit.

The Test Plan is based on the TUV SUD Document FCC and ISED Test Plan Rationale for Base Station Equipment.

Pre-testing was performed in accordance with the Test Plan to establish the worst-case Port, modulation schemes and bandwidths.

The port with the highest power, worst case port = Port A

Worst case modulation was QPSK (LTE), 16QAM (NR)

Worst case bandwidth was 5 MHz (LTE, NR)

1.8 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 | Description of Modification still fitted to EUT | Modification Fitted By | Date Modification Fitted |
|--|---|------------------------|--------------------------|
| Model: Radio 2012 B29, Serial Number: E23C233732 | | | |
| 0 | As supplied by the customer | Not Applicable | Not Applicable |

Table 3

1.9 Test Location

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

| Test Name | Name of Engineer(s) | Accreditation |
|-----------------------------|---------------------|---------------|
| Radiated Spurious Emissions | Graeme Lawler | UKAS |

Table 4

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 27, Clause 27.53(g)
FCC 47 Part 2, Clause 2.1053
ISED RSS-GEN, Clause 6.13
ISED RSS-130, Clause 4.7

2.1.2 Equipment Under Test and Modification State

Radio 2012 B29, S/N: E23C233732- Modification State 0

2.1.3 Date of Test

01-02 March 2021

2.1.4 Test Method

The test was performed in accordance with ANSI C63.26 Clause 5. The EUT was configured as defined in ANSI C63.26, clause 5.5.2.3.2.

As a result of the conducted measurements that were performed on the EUT, it was established that LTE and NR 5 MHz were the bandwidth configurations which gave the highest output power and therefore deemed to be worst case operating modes. Testing was performed on the Top, Middle and Bottom channels for single carrier. Testing was performed on Middle channel only for multicarrier, as described in the Test Plan, the result was within 10 dB of the single carrier result and therefore Middle and Top channel testing was not performed.

The EUT was set up on a support replicating typical installation conditions at a height of 0.8 m above the reference ground plane for measurements below 1GHz, (see setup photos) within a semi-anechoic chamber on a remotely controlled turntable. Above 1 GHz, the height was increased to 1.5 m above the reference ground plane.

Pre-scan and final measurements were made using a Field Strength method in accordance with ANSI C63.26 Clause 5.5.4. The readings were maximized by adjusting the antenna height, polarization and turntable azimuth, in accordance with the specification. Final results were then converted to eirp and are displayed in the plots below. The correction for field strength measurements to eirp at 3 m was 95.2 dB. An RBW of 1 MHz and VBW of 3 MHz was used for all measurements with a Peak detector and trace set to Max Hold. In all cases below where the limit line is exceeded – this is the intentional transmit frequency.

2.1.5 Environmental Conditions

Ambient Temperature 25.8°C
Relative Humidity 23.9%

2.1.6 Test Results

| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 5 - LTE-1C-5 MHz-Bot, 719.5 MHz, 30 MHz to 8 GHz

*No emissions found within 10 dB of the limit.

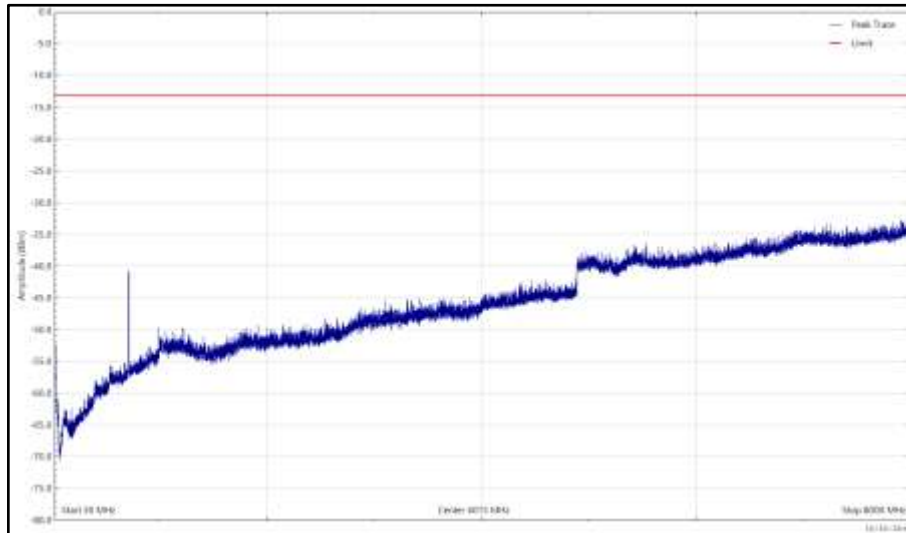


Figure 2 - LTE-1C-5 MHz-Bot, 719.5 MHz, 30 MHz to 8 GHz, Horizontal (Peak)

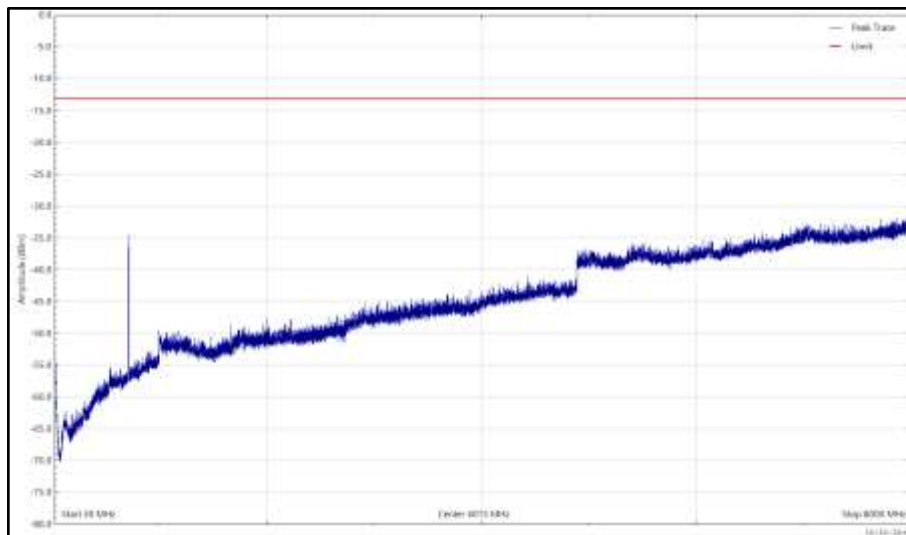


Figure 3 - LTE-1C-5 MHz-Bot, 719.5 MHz, 30 MHz to 8 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 6 - LTE-1C-5 MHz-Mid, 722.5 MHz, 30 MHz to 8 GHz

*No emissions found within 10 dB of the limit.

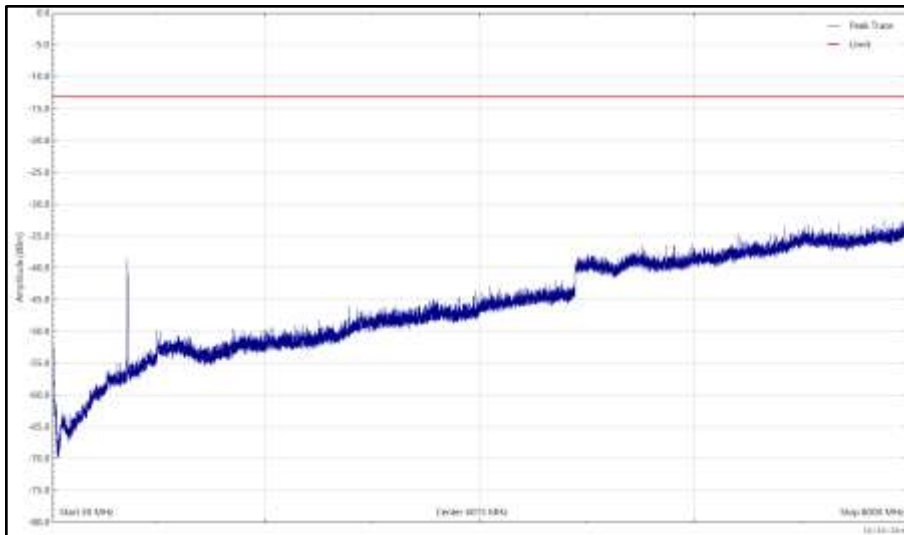


Figure 4 - LTE-1C-5 MHz-Mid, 722.5 MHz, 30 MHz to 8 GHz, Horizontal (Peak)

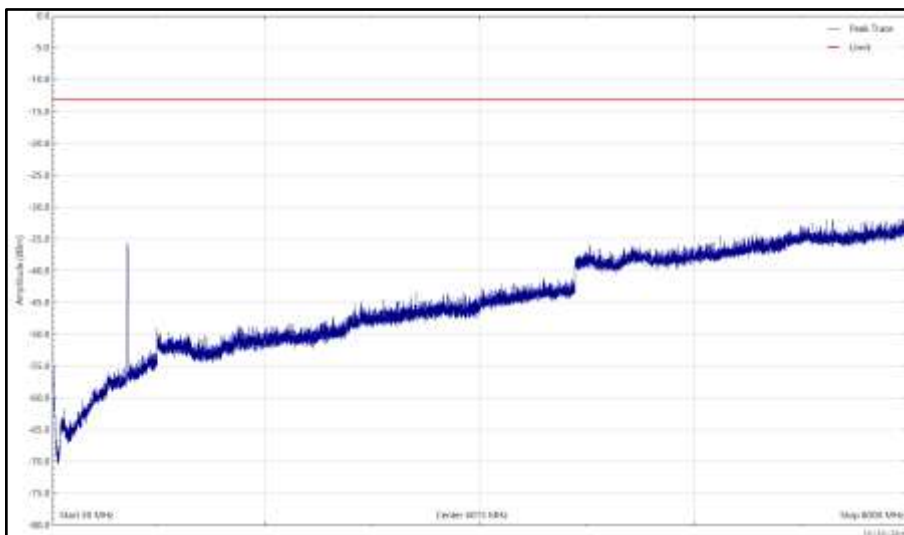


Figure 5 - LTE-1C-5 MHz-Mid, 722.5 MHz, 30 MHz to 8 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 7 - LTE-1C-5 MHz-Top, 725.5 MHz, 30 MHz to 8 GHz

*No emissions found within 10 dB of the limit.

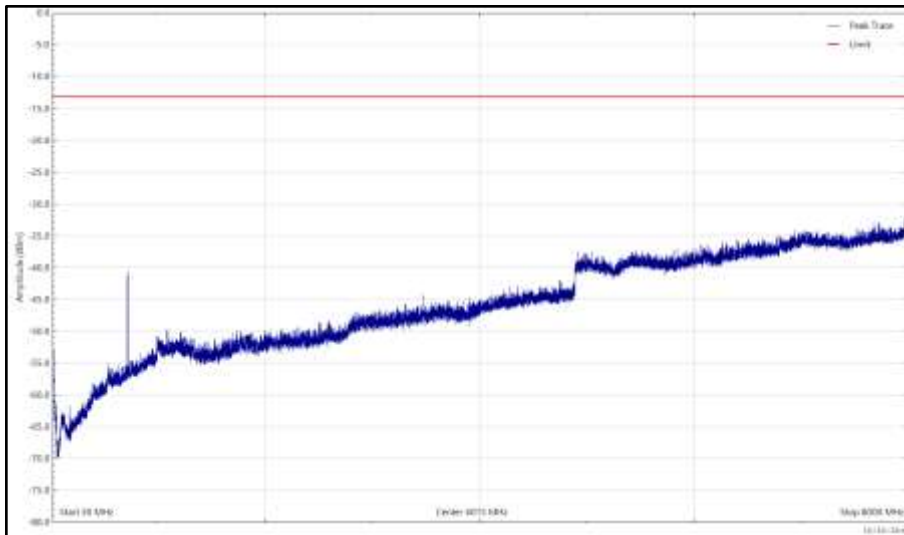


Figure 6 - LTE-1C-5 MHz-Top, 725.5 MHz, 30 MHz to 8 GHz, Horizontal (Peak)

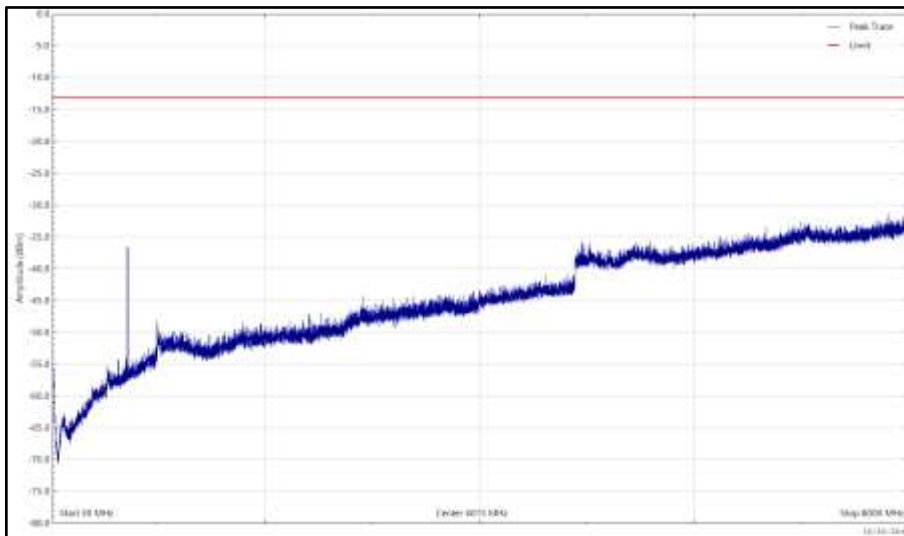


Figure 7 - LTE-1C-5 MHz-Top, 725.5 MHz, 30 MHz to 8 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 8 - LTE-2C-5 MHz-Mid, 719.5&725.5 MHz, 30 MHz to 8 GHz

*No emissions found within 10 dB of the limit.

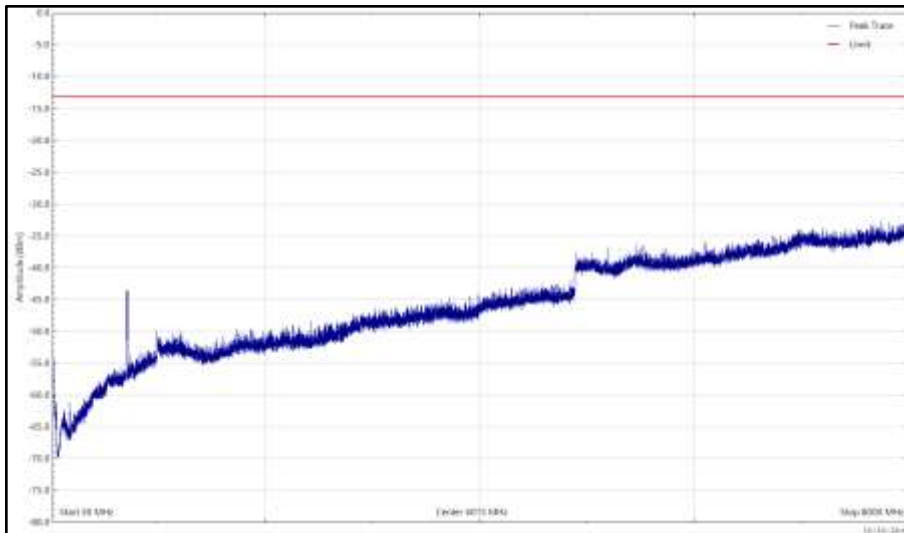


Figure 8 - LTE-2C-5 MHz-Mid, 719.5&725.5 MHz, 30 MHz to 8 GHz, Horizontal (Peak)

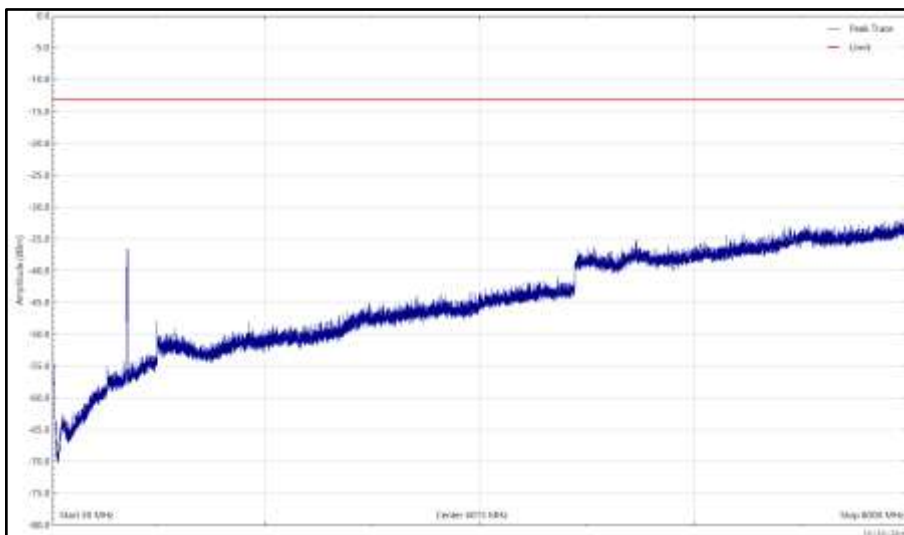


Figure 9 - LTE-2C-5 MHz-Mid, 719.5&725.5 MHz, 30 MHz to 8 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 9 - LTE-3C-3MHz-Mid, 718.5&722.5&726.5 MHz, 30 MHz to 8 GHz

*No emissions found within 10 dB of the limit.

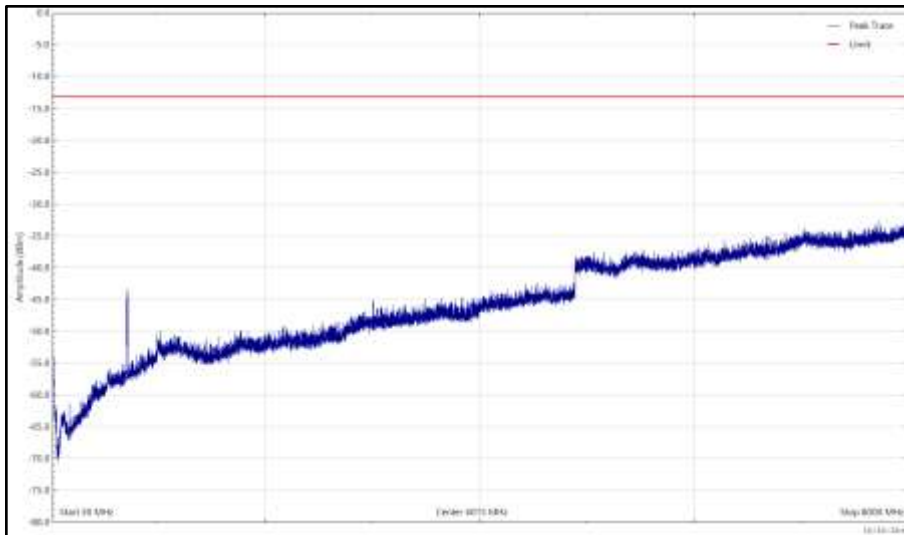


Figure 10 - LTE-3C-3MHz-Mid, 718.5&722.5&726.5 MHz, 30 MHz to 8 GHz, Horizontal (Peak)

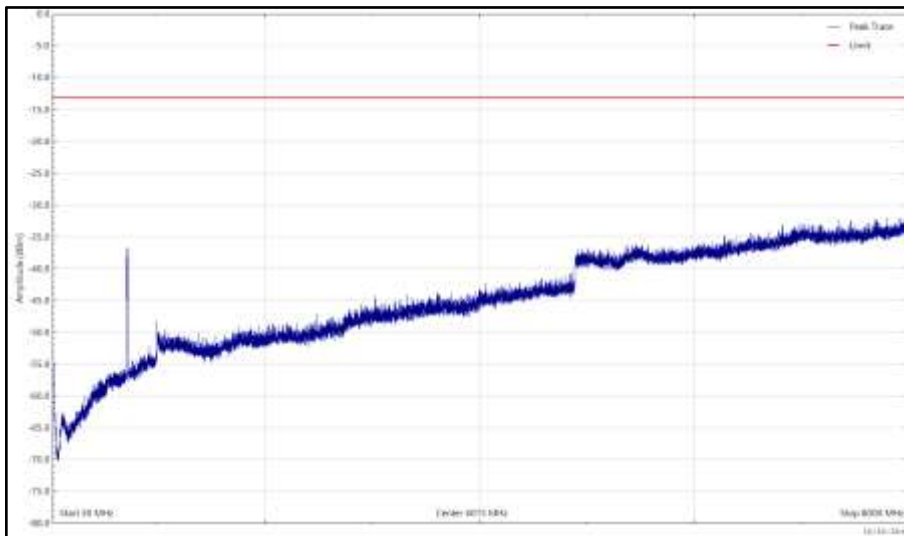


Figure 11 - LTE-3C-3MHz-Mid, 718.5&722.5&726.5 MHz, 30 MHz to 8 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 10 - NR-1C-5 MHz-Bot, 719.5 MHz, 30 MHz to 8 GHz

*No emissions found within 10 dB of the limit.

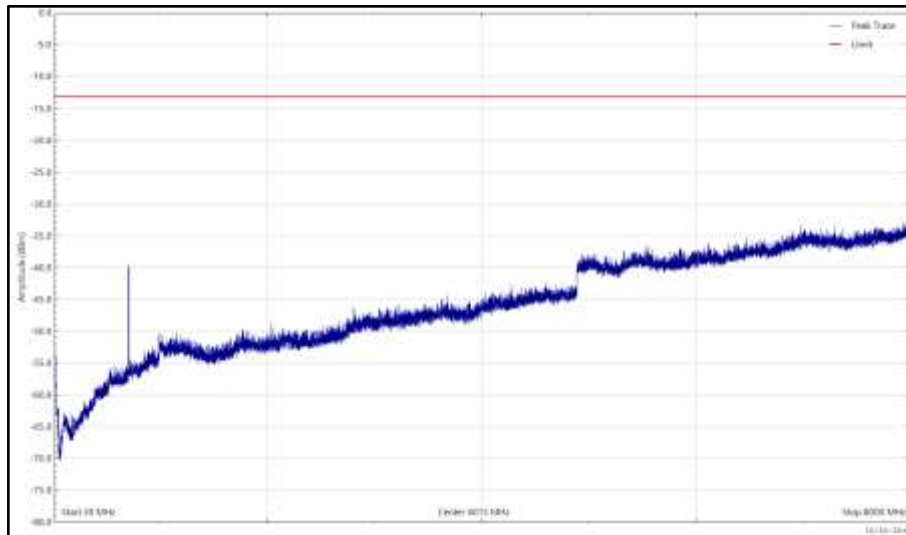


Figure 12 - NR-1C-5 MHz-Bot, 719.5 MHz, 30 MHz to 8 GHz, Horizontal (Peak)

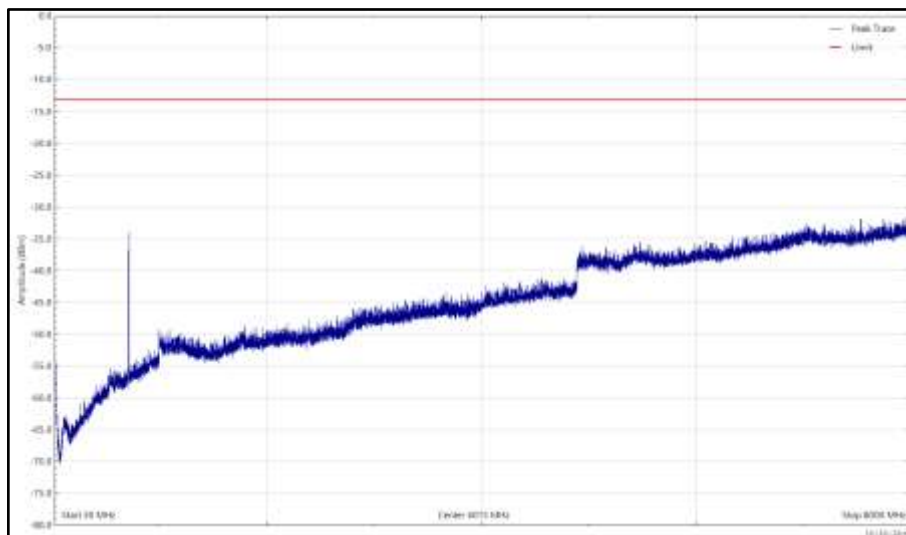


Figure13 - NR-1C-5 MHz-Bot, 719.5 MHz, 30 MHz to 8 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 11 - NR-1C-5 MHz-Mid, 722.5 MHz, 30 MHz to 8 GHz

*No emissions found within 10 dB of the limit.

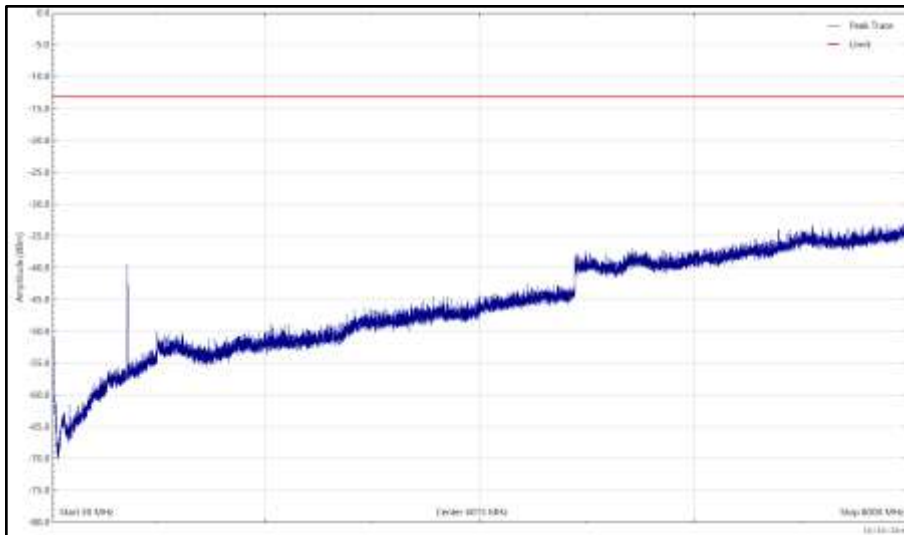


Figure 14 - NR-1C-5 MHz-Mid, 722.5 MHz, 30 MHz to 8 GHz, Horizontal (Peak)

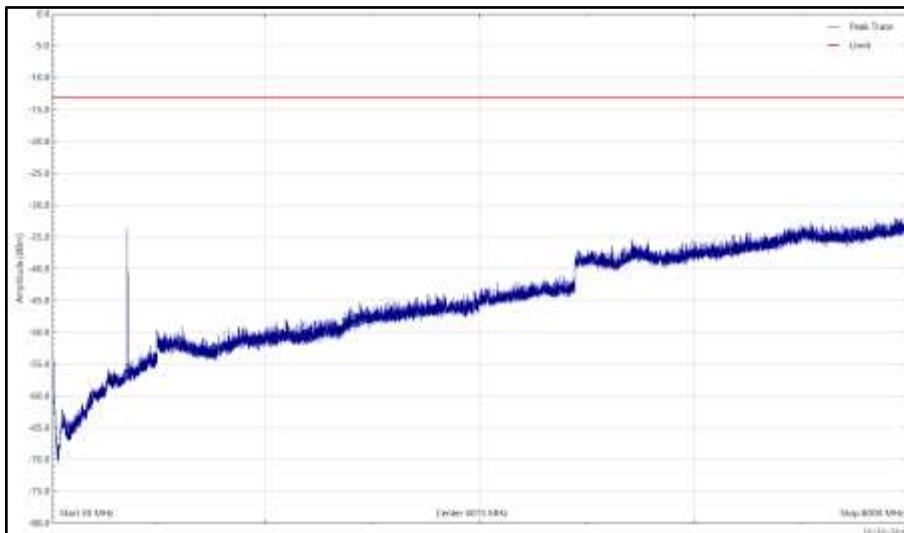


Figure 15 - NR-1C-5 MHz-Mid, 722.5 MHz, 30 MHz to 8 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 12 - NR-1C-5 MHz-Top, 725.5 MHz, 30 MHz to 8 GHz

*No emissions found within 10 dB of the limit.

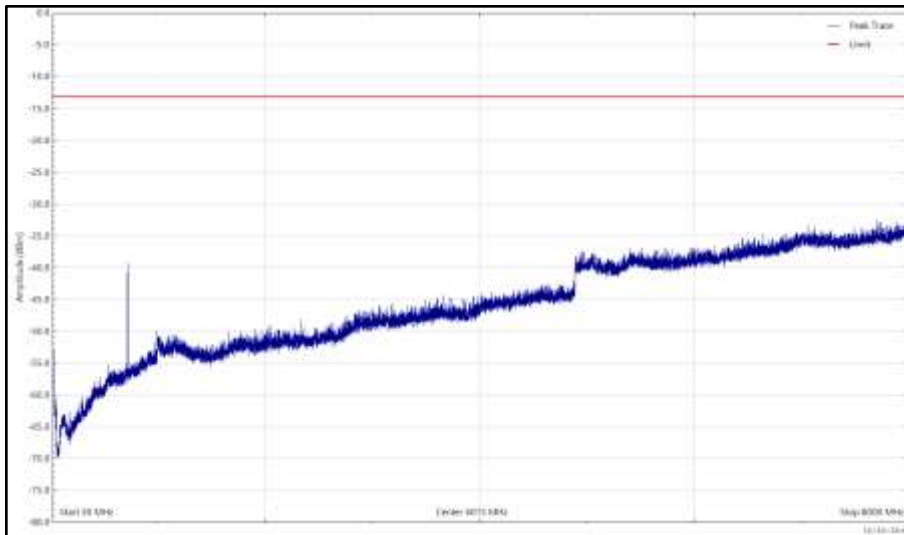


Figure 16 - NR-1C-5 MHz-Top, 725.5 MHz, 30 MHz to 8 GHz, Horizontal (Peak)

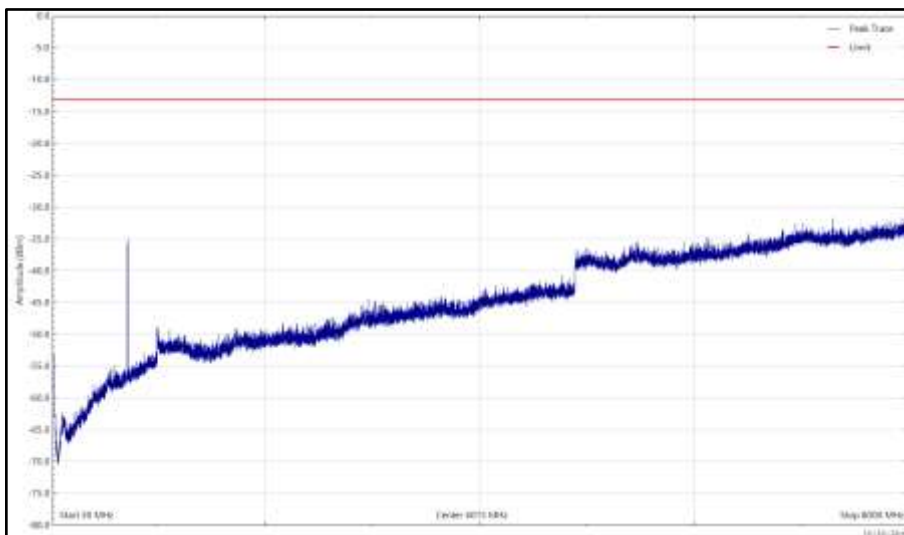


Figure 17 - NR-1C-5 MHz-Top, 725.5 MHz, 30 MHz to 8 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 13 - NR-2C-5 MHz-Mid, 719.5&725.5 MHz, 30 MHz to 8 GHz

*No emissions found within 10 dB of the limit.

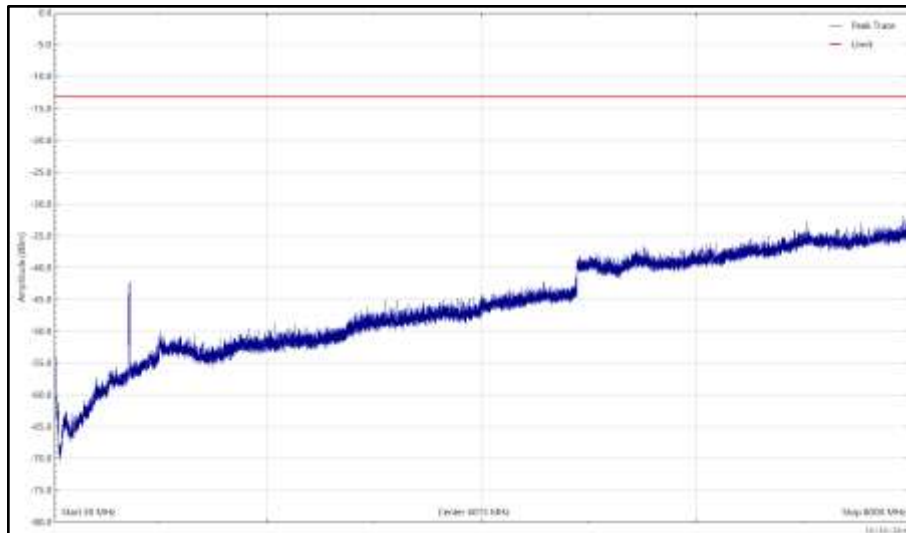


Figure18 - NR-2C-5 MHz-Mid, 719.5&725.5 MHz, 30 MHz to 8 GHz, Horizontal (Peak)

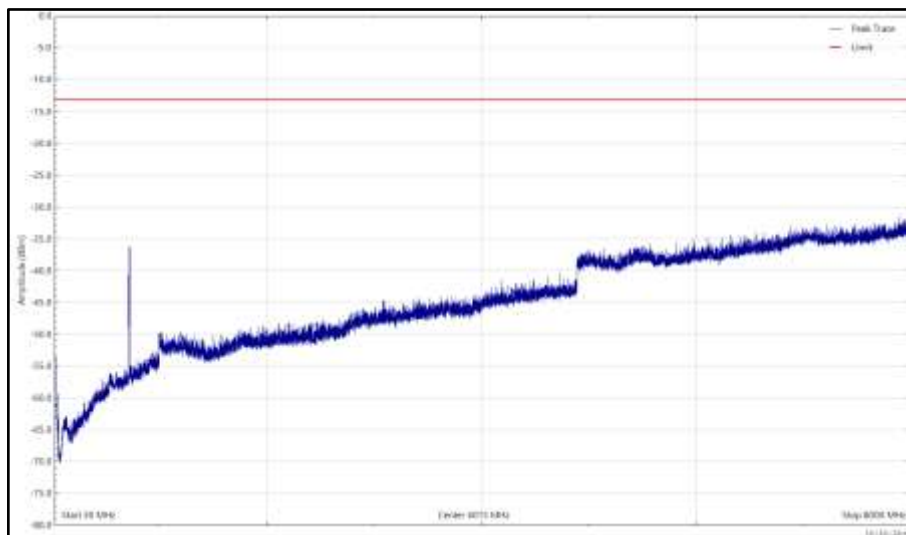


Figure 19 - NR-2C-5 MHz-Mid, 719.5&725.5 MHz, 30 MHz to 8 GHz, Vertical (Peak)

FCC 47 CFR Part 27, Limit Clause 27.53(g) and RSS-130 Clause 4.7.1

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB



2.1.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 12.

| Instrument | Manufacturer | Type No. | TE No. | Calibration Period (months) | Calibration Due |
|---|-----------------|----------------------|--------|-----------------------------|-----------------|
| 3m Semi Anechoic Chamber | MVG | EMC-3 | 5621 | 36 | 11-Aug-2023 |
| Antenna with permanent attenuator (Bilog) | Schaffner | CBL6143 | 287 | 24 | 14-Oct-2022 |
| Comb Generator | Schaffner | RSG1000 | 3034 | - | TU |
| Multimeter | Fluke | 175 | 4427 | 12 | 16-Mar-2021 |
| Power Supply Unit | Farnell | TSV-70 | 2043 | - | O/P Mon |
| EmX Emissions Software | TUV SUD | V2.1.1 V.V2.1.1 | 5125 | - | N/A - Software |
| Test Receiver | Rohde & Schwarz | ESW44 | 5379 | 12 | 15-Dec-2021 |
| 3.5 mm 2m Cable | Junkosha | MWX221-02000DMS | 5428 | 12 | 15-Oct-2021 |
| Thermo-Hygro-Barometer | PCE Instruments | PCE-THB-40 | 5481 | 12 | 18-Mar-2021 |
| 8m N Type Cable | Junkosha | MWX221-08000NMSNMS/B | 5519 | 12 | 24-Mar-2021 |
| Broadband Horn Antenna (1-10 GHz) | Schwarzbeck | BBHA 9120 B | 5611 | 12 | 22-Sep-2021 |
| Turntable & Mast Controller | Maturo Gmbh | NCD/498/2799.01 | 5612 | - | TU |
| Tilt Antenna Mast TAM 4.0-P | Maturo Gmbh | TAM 4.0-P | 5613 | - | TU |
| Turntable | Maturo Gmbh | Turntable 1.5 SI-2t | 5614 | - | TU |
| 3m Semi Anechoic Chamber | MVG | EMC-3 | 5621 | 36 | 11-Aug-2023 |

Table 14

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

3 Photographs

3.1 Test Setup Photographs



Figure 2 – 30 MHz to 1 GHz

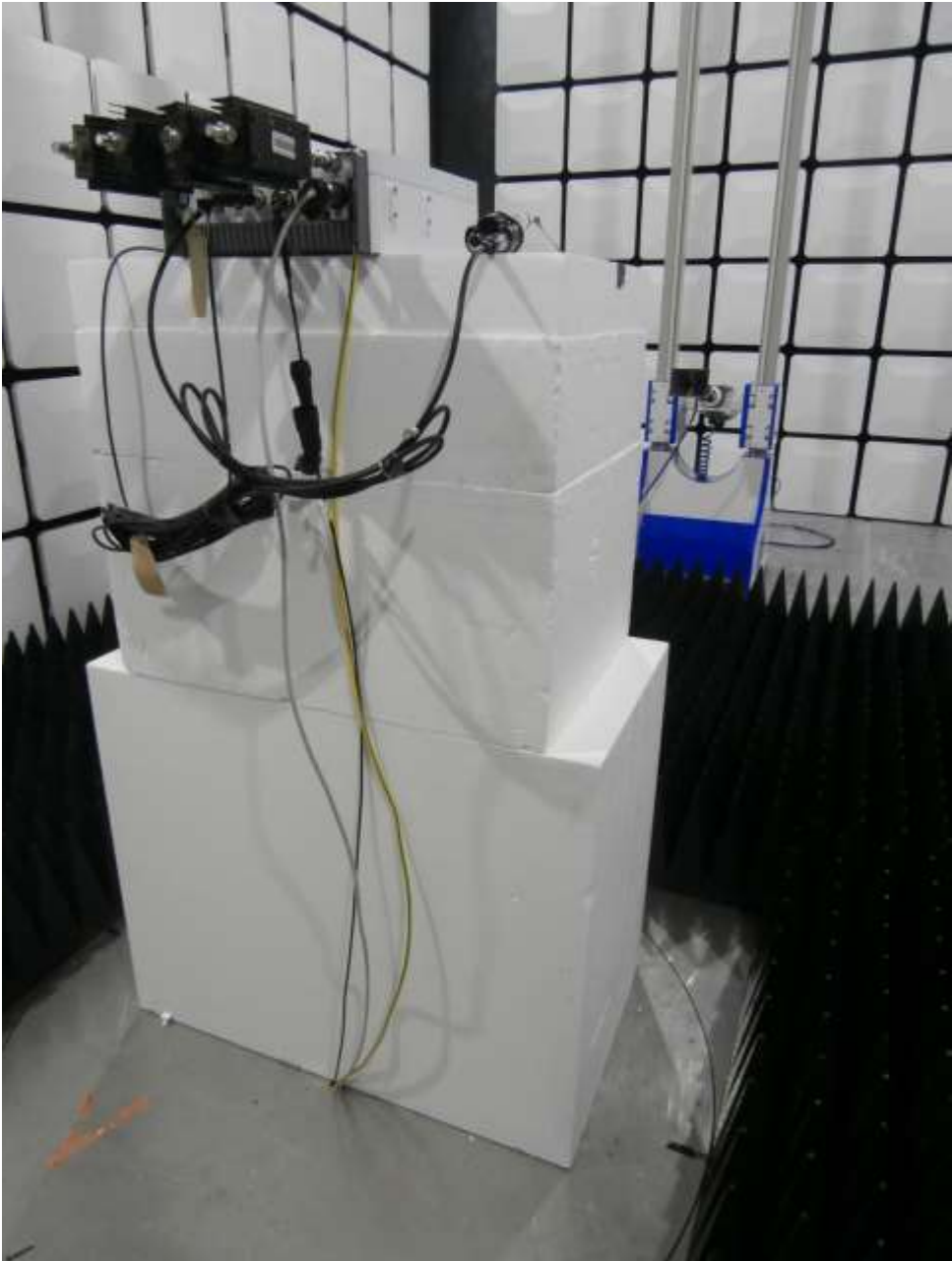


Figure 21– 1 GHz to 8 GHz



4 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 1 GHz to 40 GHz: ± 6.3 dB |

Table 515

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2007, clause 4.4.3 and 4.5.1.