



Test report issued under the responsibility of:  
EMITECH MONTPELLIER laboratory  
MRA US-EU Designation Number: FR0006  
Canadian CAB Identifier: FR0003

# RADIO TEST REPORT

FCC 47 CFR PART 15.247  
RSS-247\_Issue 2, February 2017

**Company** ..... : **XPLORER**  
**Address**..... : 40 chemin du Moulin  
31320 MERVILLA  
FRANCE

**Test item description.** ..... : **Wireless metal detection sensor**  
**Trade Mark.** ..... : FMF  
**Manufacturer**..... : XPLORER  
**Model/Type reference**..... : XPMF / FMF28  
**FCC ID**..... : XFJMF  
**IC.** ..... : 8392A-MF  
**Ratings**..... : 3.45Vdc to 4.2Vdc

**Testing Laboratory** ..... : **EMITECH MONTPELLIER laboratory**  
**Address**..... : 145 rue de Massacan  
34740 VENDARGUES  
FRANCE

**Report Reference No.** ..... : **RR410-20-101751-12A**  
**Test procedure.** ..... : FCC IC Certification  
**Diffusion**..... : Mr LOUBET  
**Applicant's name.** ..... : XPLORER  
**Date of issue**..... : November 3, 2021  
**Total number of pages**..... : 117  
**Revision.** ..... : 0  
**Modified page(s)**..... : Creation  
**Compiled by**..... : Alexis TOUZET  
**Approved by (+ signature).** ..... : Olivier HEYER (Laboratory Manager)

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This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of  
the whole manufactured products of the tested sample.*

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**REVISION HISTORY:**

| Revision | Date             | Modified pages | Modifications |
|----------|------------------|----------------|---------------|
| 0        | November 3, 2021 | /              | Creation      |

## 1. GENERAL INFORMATION

This document submits the results of Radio tests performed on the equipment **Wireless metal detection sensor Disk FMF 28cm** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed in §2 of this test report.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |     |                         |     |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|-------------------------|-----|---------------------|
| <b>TESTING PROCEDURE AND TESTING LOCATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |     |                         |     |                     |
| <b>Testing Location</b> ..... : EMITECH MONTPELLIER laboratory<br><b>Address</b> ..... : 145 rue de Massacan<br>34740 VENDARGUES<br>FRANCE<br><b>Test procedure</b> ..... : FCC IC Certification<br><b>Tested by</b> ..... : Olivier AELBRECHT & Alexis TOUZET<br><b>Test supervisor</b> ..... : Olivier AELBRECHT<br><b>Date of receipt of test item</b> ..... : N/A<br><b>Date (s) of performance of tests</b> ..... : From February the 15 <sup>th</sup> of 2021 to April the 30 <sup>th</sup> of 2021                                                                                                                                                                                   |                       |     |                         |     |                     |
| <b>APPLICANT'S GENERAL INFORMATION:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |     |                         |     |                     |
| <b>Company name</b> ..... : XPLOER<br><b>Company address</b> ..... : 40 chemin du Moulin<br>31320 MERVILLA<br>FRANCE<br><b>Person(s) present during the tests</b> ..... : No representative for company attended the tests.<br><b>Responsible</b> ..... : Mr LOUBET                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |     |                         |     |                     |
| <b>GENERAL REMARKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |     |                         |     |                     |
| <p><b>The information in italics is declared by the manufacturer and is under his responsibility</b><br/> <b>The test results presented in this report relate only to the object tested.</b><br/> <b>The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.</b></p> <p>"(see Enclosure #)" refers to additional information appended to the report.<br/> "(see appended table)" refers to a table appended to the report.<br/> Throughout this report the decimal separator is point.</p> |                       |     |                         |     |                     |
| <b>POSSIBLE TEST CASE VERDICTS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |     |                         |     |                     |
| <b>Test case does not apply to the test object</b> .: N/A<br><b>Test case not performed</b> ..... : N/P<br><b>Test object does meet the requirement</b> ..... : P (Pass)<br><b>Test object does not meet the requirement</b> ..... : F (Fail)                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |     |                         |     |                     |
| <b>DEFINITIONS AND ABBREVIATIONS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |     |                         |     |                     |
| E.U.T.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Equipment under test  | AE  | Ancillary equipment     | Pk  | Peak detector       |
| RBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Resolution bandwidth  | VBW | Video bandwidth         | QP  | Quasi-peak detector |
| OATS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Open area test site   | FAR | Full anechoic room      | Av  | Average detector    |
| VP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Vertical Polarization | HP  | Horizontal Polarization | RMS | Root Mean Square    |
| RF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Radio frequency       | NTR | Nothing to report       | N/C | Not communicated    |

## 2. REFERENCE DOCUMENT(S)

### NORMATIVE REFERENCES:

The following referenced documents are necessary for the application of the present test report.

**FCC 47 CFR PART 15: 2017**

Code of federal regulations – Title 47 telecommunication  
Part 15- Radio frequency devices

**FCC part 15.247**

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850MHz. (frequency hopping and digitally modulated)

**RSS-247\_Issue 2, February 2017**

Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence Exempt Local Area Network (LE-LAN) Devices

**RSS/CNR-Gen, Issue 5, April 2018, Amd1: 2019, Amd2: 2021**

Exigences générales et information relatives à la certification du matériel de radiocommunication

**ANSI C 63.10:2013**

American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

**ANSI C 63.4:2014**

American National Standard for Methods of measurement of Radio-Noise from low-voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

Although the product standard uses obsolete technical standards, the latest versions of standards achievable by the laboratory will be used for testing.

### INFORMATIVE REFERENCES:

The following referenced documents are not necessary for the application of the present test report but they assist the user with regard to a particular subject area.

### 3. EQUIPMENT TECHNICAL DESCRIPTION

#### 3.1. Test Conditions

Test item description. .... : Wireless metal detection sensor  
 Model/Type reference..... : XPMF / FMF28  
 Trade Mark. .... : FMF  
 FCC ID..... : XFJMF  
 IC. .... : 8392A-MF  
 Serial number (S/N)..... : 51303E  
 Part number (P/N). .... : Not communicated  
 Software version..... : 20210126  
 Firmware version. .... : *Not communicated*  
 Type of sample. .... : Pre-serial  
 Function(s)..... : Wireless object detection sensor  
 Manufacturer name. .... : XPLOER  
 Address. .... : 8 rue du Développement - ZI de Vic  
 31320 CASTANET-TOLOSAN  
 FRANCE

#### General product information:

N/A

#### 3.2. EUT Marking plate



### 3.3.EUT General view



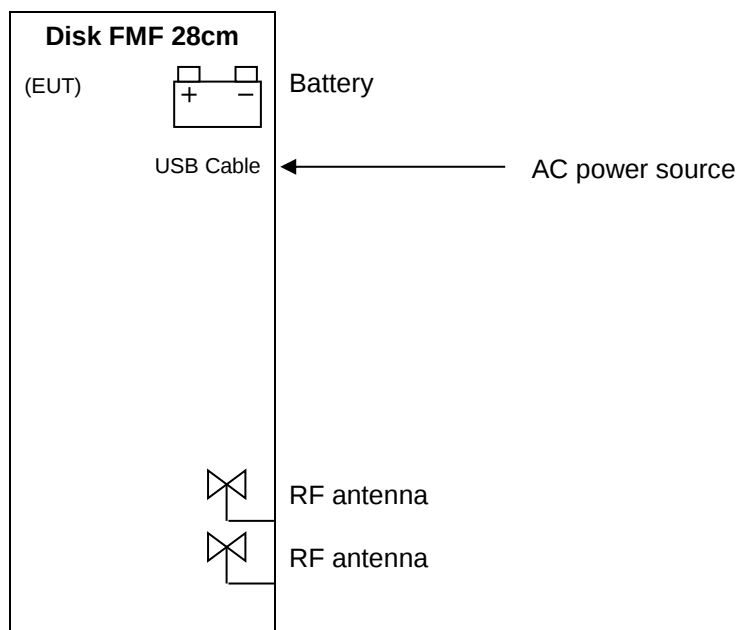
### 3.4.EUT Mechanical and Electrical Design

|                                  |                     |
|----------------------------------|---------------------|
| Power supply. ....               | : 3.7Vdc            |
| Power supply range.....          | : 3.45Vdc to 4.2Vdc |
| Power type.....                  | : Battery powered   |
| Power (W).....                   | : 5                 |
| Nominal current (A). ....        | : 1                 |
| Dimensions (L x W x H) (m). .... | : 0.28x0.28x0.04    |
| Weight (kg). ....                | : 0.417             |
| Temperature range (°C). ....     | : -5°C to +40°C     |
| Ground bounding strap.....       | : No                |

#### Comments:

N/A

### 3.5.EUT Input/Output ports



| PORT | NAME            | TYPE  | LENGTH | CABLE TYPE | COMMENTS       |
|------|-----------------|-------|--------|------------|----------------|
| 0    | Main frame      | N/E   | N/A    | Plastic    |                |
| 1    | Battery         | DC    | N/A    | N/A        |                |
| 2    | AC power source | AC/DC | 1m     | 2P         |                |
| 3    | RF antenna      | RF    | N/A    | N/A        | 2.4GHz         |
| 4    | RF antenna      | RF    | N/A    | N/A        | Metal detector |

AC/DC : AC/DC Converter port      AC.....: Alternative current port      DC.....: Discontinuous current port  
I/O .....: Input or Output port      TP .....: Telecommunication port      RF .....: Radio frequency port  
N/E .....: Non Electrical port

### 3.6.Supporting Equipment Used During Test

Sample subject to the tests was tested with following equipment.

| PRODUCT TYPE            | MANUFACTURER             | MODEL     | N°EMITECH / COMMENTS        |
|-------------------------|--------------------------|-----------|-----------------------------|
| Battery charger (AC/DC) | Sinohero Industrial Ltd. | SJ-0510-E | Used for conducted emission |

**BATTERY CHARGER (AC/DC) (AE)**



### 3.7. EUT Radio Specifications

| a) GENERAL INFORMATIONS                    |                                                                                                                |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| According to manufacturer's declarations : |                                                                                                                |
| EUT type.....                              | Transmitter                                                                                                    |
| Technology .....                           | SRD (Metal and object detection sensors)<br>SRD 2.4GHz                                                         |
| Environmental profile.....                 | Data transmissions                                                                                             |
| Temperature range.....                     | -5°C to +40°C                                                                                                  |
| Antenna type .....                         | Integral                                                                                                       |
| Antenna Gain.....                          | Not communicated                                                                                               |
| <b>Comments:</b>                           |                                                                                                                |
| N/A                                        |                                                                                                                |
| b) TRANSMITTER PARAMETERS (Tx)             |                                                                                                                |
| Frequency bands.....                       | 1kHz to 148.5kHz<br>2400 MHz to 2483.5MHz                                                                      |
| RF Power.....                              | Not communicated                                                                                               |
| Number of channels / Separation.....       | Multiple                                                                                                       |
| Modulation type .....                      | GFSK                                                                                                           |
| Duty cycle .....                           | Not communicated                                                                                               |
| Tested frequency.....                      | 4.1kHz low Channel<br>45.19kHz High Channel<br>2404MHz Low channel<br>2440MHz Mid channel<br>2476 High channel |
| c) RECEIVER PARAMETERS (Rx)                |                                                                                                                |
| Frequency bands.....                       | 1kHz to 148.5kHz<br>2400 MHz to 2483.5MHz                                                                      |
| Category/Class .....                       | N/A<br>Category 2                                                                                              |
| Bandwidth.....                             | N/A<br>2404MHz to 2476MHz                                                                                      |

**4. OPINION(S) AND INTERPRETATION(S)**

| TEST(S) PERFORMED                                        | DEVIATION(S) TO TEST METHOD(S)                                                                            |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| FCC part 15.247 subclause d) and RSS-247                 | N/A                                                                                                       |
| FCC part 15.247 and RSS-247                              | N/A                                                                                                       |
| FCC part 15.109, 15.209, 15.205, 15.215, CNR-Gen         | N/A                                                                                                       |
| FCC part 15.109, 15.209, 15.205, 15.215, CNR-Gen         | The EUT is encapsulated in a casing. We were not able to measure its voltage supply during radiated tests |
| FCC part 15.109, 15.209, 15.205, 15.215 RSS-247, CNR Gen | N/A                                                                                                       |
| FCC part 15 Radio part 15.215 and RSS Gen                | N/A                                                                                                       |
| ANSI C63.4: 2014                                         | N/A                                                                                                       |

Comments: N/A

## 5. RESULT SUMMARY

| TEST DESIGNATION                                                         | SEVERITY | VERDICT | BASIC STANDARDS / COMMENTS           |
|--------------------------------------------------------------------------|----------|---------|--------------------------------------|
| <b>SUBPART A - GENERAL</b>                                               |          |         |                                      |
| Labeling requirements                                                    |          | PASS    | 15.19 / See certification documents  |
| Information to user                                                      |          | PASS    | 15.21 / See certification documents  |
| Home-built devices                                                       |          | N/A     | 15.23                                |
| Kits                                                                     |          | N/A     | 15.25                                |
| Special Accessories                                                      |          | PASS    | 15.27 / See certification documents  |
| Inspection by the Commission                                             |          | N/A     | 15.29                                |
| Measurement standards                                                    |          | PASS    | 15.31                                |
| Test procedure for CPU boards and computer power supplies                |          | N/A     | 15.32                                |
| Frequency range of radiated measurements                                 |          | PASS    | 15.33                                |
| Measurement detector functions and bandwidths                            |          | PASS    | 15.35                                |
| Transition provisions for compliance with the rules                      |          | PASS    | 15.37 / See certification documents  |
| <b>SUBPART B – UNINTENTIONAL RADIATORS</b>                               |          |         |                                      |
| Equipment authorization                                                  |          |         | 15.101                               |
| - Verification                                                           |          | N/A     |                                      |
| - Declaration of Conformity                                              |          | N/A     |                                      |
| CPU boards and power supplies used in personal computers                 |          | N/A     | 15.102                               |
| Exempted device                                                          |          | N/A     | 15.103                               |
| Information to the user                                                  |          | PASS    | 15.105 / See certification documents |
| Conducted limits                                                         | Class B  | PASS    | 15.107                               |
| Radiated emission limits                                                 | Class B  | PASS    | 15.109                               |
| Antenna power conduction limits for receivers                            |          | N/A     | 15.111                               |
| Power line carrier systems                                               |          | N/A     | 15.113                               |
| TV interface devices, including cable system terminal devices            |          | N/A     | 15.115                               |
| TV broadcast receivers                                                   |          | N/A     | 15.117                               |
| Cable ready consumer electronics equipment                               |          | N/A     | 15.118                               |
| Program blocking technology requirements for TV receivers                |          | N/A     | 15.120                               |
| Scanning receivers and frequency converters used with scanning receivers |          | N/A     | 15.121                               |
| Labeling of digital cable ready products                                 |          | N/A     | 15.123                               |

| TEST DESIGNATION                                                                                  | SEVERITY | VERDICT | BASIC STANDARDS / COMMENTS                                      |
|---------------------------------------------------------------------------------------------------|----------|---------|-----------------------------------------------------------------|
| <b>SUBPART C –INTENTIONAL RADIATORS</b>                                                           |          |         |                                                                 |
| <b>Equipment authorization requirement</b>                                                        |          | PASS    | 15.201 / Transmitter part is subject to Certification procedure |
| <b>Certified operating frequency range</b>                                                        |          | N/A     | 15.202                                                          |
| <b>Antenna requirement</b>                                                                        |          | PASS    | 15.203 / Dedicated and glued antenna                            |
| <b>External radio frequency power amplifiers and antenna modifications</b>                        |          | N/A     | 15.204                                                          |
| <b>Restricted bands of operation</b>                                                              |          | PASS    | 15.204                                                          |
| <b>Conducted limits</b>                                                                           | Class B  | PASS    | 15.207                                                          |
| <b>Radiated emission limits; general requirements</b>                                             | Class B  | PASS    | 15.209                                                          |
| <b>Tunnel radio systems</b>                                                                       |          | N/A     | 15.211                                                          |
| <b>Modular transmitters</b>                                                                       |          | N/A     | 15.212                                                          |
| <b>Cable locating equipment</b>                                                                   |          | N/A     | 15.213                                                          |
| <b>Cordless telephones</b>                                                                        |          | N/A     | 15.214                                                          |
| <b>Additional provisions to the general radiated emission limits</b>                              |          | PASS    | 15.215                                                          |
| <b>Operation within the band 902-928MHz, 2400-2483.5MHz and 5725-5850MHz</b>                      |          |         | 15.247                                                          |
| - Frequency hopping and digitally modulated                                                       |          | -       | a)                                                              |
| - Frequency hopping system                                                                        |          | N/A     | a) (1)                                                          |
| - Digital modulation system                                                                       |          | PASS    | a) (2)                                                          |
| - <b>Maximum peak conducted output power</b>                                                      |          | -       | b)                                                              |
| - For hopping system in the 2400-2483.5 MHz and 5725-5850 MHz bands                               |          | N/A     | b) (1)                                                          |
| - For hopping system in the 902-928MHz band                                                       |          | N/A     | b) (2)                                                          |
| - For system using digital modulation in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands |          | PASS    | b) (3)                                                          |
| - <b>Operation with directional antenna gains &gt; 6 dBi</b>                                      |          | N/A     | c)                                                              |
| - <b>Out-of-band emissions</b>                                                                    |          | PASS    | d)                                                              |
| - <b>Power spectral density conducted</b>                                                         |          | PASS    | e)                                                              |
| - <b>Hybrid system</b>                                                                            |          | N/A     | f)                                                              |
| - <b>Frequency hopping additional requirements</b>                                                |          | N/A     | g)                                                              |
| - <b>Frequency hopping intelligence</b>                                                           |          | N/A     | h)                                                              |
| - <b>RF exposure compliance</b>                                                                   |          | PASS    | i)                                                              |

Sample subject to the test complies with the requirements of the reference document(s) listed in §2 of this test report and, where applicable, with deviation(s) specified in this document.

To declare, or not, the compliance with the specifications, it was not explicitly taken account of uncertainty associated with the results.

Opinion(s) and interpretation(s): N/A

| TEST(S) PERFORMED                                        | MODIFICATION(S) |
|----------------------------------------------------------|-----------------|
| FCC part 15.247 subclause d) and RSS-247                 | N/A             |
| FCC part 15.247 and RSS-247                              | N/A             |
| FCC part 15.109, 15.209, 15.205, 15.215, CNR-Gen         | N/A             |
| FCC part 15.109, 15.209, 15.205, 15.215 RSS-247, CNR Gen | N/A             |
| FCC part 15 Radio part 15.215 and RSS Gen                | N/A             |
| ANSI C63.4: 2014                                         | N/A             |

## 6. MEASUREMENT UNCERTAINTY

| PARAMETER                                           | MAXIMAL EMITECH<br>UNCERTAINTY   | MINIMAL STANDARD<br>UNCERTAINTY |
|-----------------------------------------------------|----------------------------------|---------------------------------|
| Radio frequency                                     | $\pm 1 \times 10^{-7}$           | $\pm 1 \times 10^{-7}$          |
| RF power, conducted                                 |                                  |                                 |
| RF power                                            | $\pm 0.8\text{dB}$               | $\pm 1 \text{ dB}$              |
| RF power (EN 300328 / EN 301893)                    | $\pm 1.3\text{dB}$               | $\pm 1.5 \text{ dB}$            |
| Power spectral density                              | $\pm 2.3\text{dB}$               | $\pm 3 \text{ dB}$              |
| Occupied bandwidth                                  |                                  |                                 |
| RF power                                            | $\pm 3.8 \%$                     | $\pm 5 \%$                      |
| RF power (EN 300328 / EN 301893)                    | $\pm 3.8 \%$                     | $\pm 5 \%$                      |
| Maximum frequency deviation                         |                                  |                                 |
| 300 Hz < audio frequency < 6 kHz                    | $\pm 1.2 \%$                     | $\pm 5 \%$                      |
| 6 kHz < audio frequency < 25 kHz                    | $\pm 1.2 \%$                     | $\pm 3 \text{ dB}$              |
| Adjacent channel power                              | $\pm 1.6 \text{ dB}$             | $\pm 3 \text{ dB}$              |
| Sensibility of receiver (conducted)                 | $\pm 2.0 \text{ dB}$             | $\pm 3 \text{ dB}$              |
| Blocking                                            | $\pm 4.0 \text{ dB}$             | $\pm 4 \text{ dB}$              |
| Transient                                           |                                  |                                 |
| Amplitude                                           | $\pm 8.5 \%$                     | $\pm 20 \%$                     |
| At the frequency                                    | $\pm 166 \text{ Hz}$             | $\pm 250 \text{ Hz}$            |
| Conducted emission (spurious)                       |                                  |                                 |
| $f \leq 1 \text{ GHz}$                              | $\pm 0.8 \text{ dB}$             | $\pm 3 \text{ dB}$              |
| 1 GHz - 12.75 GHz                                   | $\pm 1.6 \text{ dB}$             |                                 |
| Radiated emission (PAR / PIRE / RNE)                |                                  |                                 |
| $f \leq 62.5 \text{ MHz}$                           | $\pm 5.1 \text{ dB}$             | $\pm 6 \text{ dB}$              |
| 62.5 MHz - 1 GHz                                    | $\pm 5.1 \text{ dB}$             | $\pm 6 \text{ dB}$              |
| 1 GHz - 18 GHz                                      | $\pm 5.2 \text{ dB}$             | $\pm 6 \text{ dB}$              |
| 18 GHz – 26 GHz                                     | $\pm 5.1 \text{ dB}$             | $\pm 6 \text{ dB}$              |
| 26 GHz – 40 GHz                                     | $\pm 5.4 \text{ dB}$             | $\pm 6 \text{ dB}$              |
| 180-1000 MHz / 1 – 12.75 GHz (EN 301 908-1)         | $\pm 3.0 / 2.9 \text{ dB}$       | $\pm 3 \text{ dB}$              |
| RF power (EN 300328 / EN 301893)                    | $\pm 5.3 \text{ dB}$             | $\pm 6 \text{ dB}$              |
| PIRE and power spectral density with diode          | $\pm 5.2 \text{ dB}$             | $\pm 6 \text{ dB}$              |
| Radiated emission (magnetic field)                  |                                  |                                 |
| 9kHz – 30MHz                                        | $\pm 3 \text{ dB}$               | $\pm 6 \text{ dB}$              |
| RF level for a given BER                            | $\pm 0.8 \text{ dB}$             | $\pm 1.5 \text{ dB}$            |
| Supply voltages                                     | $\pm 3 \%$                       | $\pm 3 \%$                      |
| Temperature                                         | $\pm 1 \text{ }^{\circ}\text{C}$ | $\pm 1^{\circ}\text{C}$         |
| Humidity                                            | $\pm 5 \%$                       | $\pm 5 \%$                      |
| Time / Duty cycle                                   | $\pm 4.4 \%$                     | $\pm 5 \%$                      |
| Adaptivity                                          | $\pm 2.9 \text{ dB}$             | /                               |
| Conducted emission (FCC)                            |                                  |                                 |
| (Artificial Mains Network) 150kHz – 30MHz           | $\pm 3.4 \text{ dB}$             | $\pm 3.4 \text{ dB}$            |
| Radiated emission (electric field for FCC standard) |                                  |                                 |
| 9kHz – 30MHz                                        | $\pm 2.7 \text{ dB}$             | /                               |
| 30MHz – 1GHz                                        | $\pm 5.0 \text{ dB}$             | /                               |
| 1GHz – 18GHz                                        | $\pm 5.6 \text{ dB}$             | /                               |
| 18GHz – 26GHz                                       | $\pm 5.7 \text{ dB}$             | /                               |
| 26GHz – 40GHz                                       | $\pm 5.7 \text{ dB}$             | /                               |

For the calculation of expanded uncertainty, the confidence interval is 95 % (k=2).

## 7. RF EXPOSURE

Maximum EIRP = 2.11dBm (128.825 mW) at 2404MHz

In accordance with KDB 447498 D01 General RF Exposure Guidance v06:

$PSD = EIRP / (4 * \pi * R^2) = 1.78 / (4 * \pi * (20 \text{ cm})^2) = 0.025 \text{ mW/cm}^2$

Limit= 1 mW/cm<sup>2</sup>

## 8. TEST CONDITIONS AND RESULTS

### 8.1. Conducted emission (measurement)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FCC part 15.107, 15.207 and RSS-Gen |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ANSI C63.4: 2014                    |
| <p><b>General test setup:</b> EUT is set on an insulating support at 80cm from the ground reference plane. All power was connected to the system through Artificial Mains Network (AMN). The AMN is placed at 80cm from the boundary of the EUT and bonded to a ground reference plane.</p> <p>All tested telecommunications lines (if applicable) were connected to an Asymmetric Artificial Network (AAN) and conducted voltage measurements on telecommunications lines were made at the output of the AAN.</p> <p>Where an AAN was not appropriate or available, measurements were made using a Capacitive Voltage Probe and/or a Current probe.</p> <p>Additional ground terminals (if any) are connected to earth terminal of the AMN.</p> |                                     |

| TESTED CABLE                            | PARAMETER    | SEVERITY | RESULT TAB. | VERDICT     |
|-----------------------------------------|--------------|----------|-------------|-------------|
| 120Vac/60Hz power supply / All channels | 150kHz-30MHz | Class B  | EMI5890     | <b>PASS</b> |
| 120Vac/60Hz power supply / Standby mode | 150kHz-30MHz | Class B  | EMI5899     | <b>PASS</b> |

| LABORATORY PARAMETERS:            | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|-----------------------------------|----------------------------|-----------------|
| Ambient Temperature               | 15 to 35 °C                | See Graph(s)    |
| Relative Humidity                 | 30 to 60 %                 | See Graph(s)    |
| Atmospheric pressure              | N/A                        | See Graph(s)    |
| <b>Test method deviation:</b> N/A |                            |                 |
| Supplementary information: N/A    |                            |                 |

| TEST EQUIPMENT USED |                     |                         |            |            |            |
|---------------------|---------------------|-------------------------|------------|------------|------------|
| CATEGORY            | BRAND               | TYPE                    | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| AC power source     | CHROMA              | 61603                   | 12532      | 25/07/2019 | 25/09/2021 |
| Cable               | N                   | 3m                      | 16422      | 04/05/2019 | 04/07/2021 |
| Cable               | EMITECH             | Current absorber sheath | 9491       | 23/06/2020 | 23/08/2022 |
| Cable               | C&C                 | N-3m                    | 14331      | 18/03/2021 | 18/05/2023 |
| Ground plane        | EMITECH             | Test area               | 11569      |            |            |
| LISN                | PMM                 | L2-16                   | 1209       | 08/06/2020 | 08/08/2022 |
| LISN                | AFJ                 | LT32C\10                | 12007      | 11/01/2019 | 11/03/2021 |
| Multimeter          | FLUKE               | 8808A                   | 12446      | 29/09/2020 | 29/11/2021 |
| Receiver            | Rohde & Schwarz     | ESHS10                  | 3371       | 27/04/2020 | 27/06/2021 |
| Receiver            | Rohde & Schwarz     | FPL1003                 | 16027      | 14/08/2020 | 14/10/2021 |
| Software            | Nexio               |                         | 0000       |            |            |
| Surges Suppressor   | Hewlett Packard     | 11947A                  | 0238       | 20/12/2019 | 20/02/2023 |
| Thermohygrometer    | Testo               | 608-H1                  | 7562       | 26/01/2019 | 26/09/2021 |
| Thermohygrometer    | Testo               | 608-H2                  | 12268      | 07/05/2020 | 07/07/2022 |
| Thermohygrometer    | Bioblock Scientific | Météostar               | 0963       | 26/01/2019 | 26/09/2021 |
| TV                  | DESIMET             | TVC 2437B               | 0903       |            |            |

BAT-EMC software version: V3.18.0.26

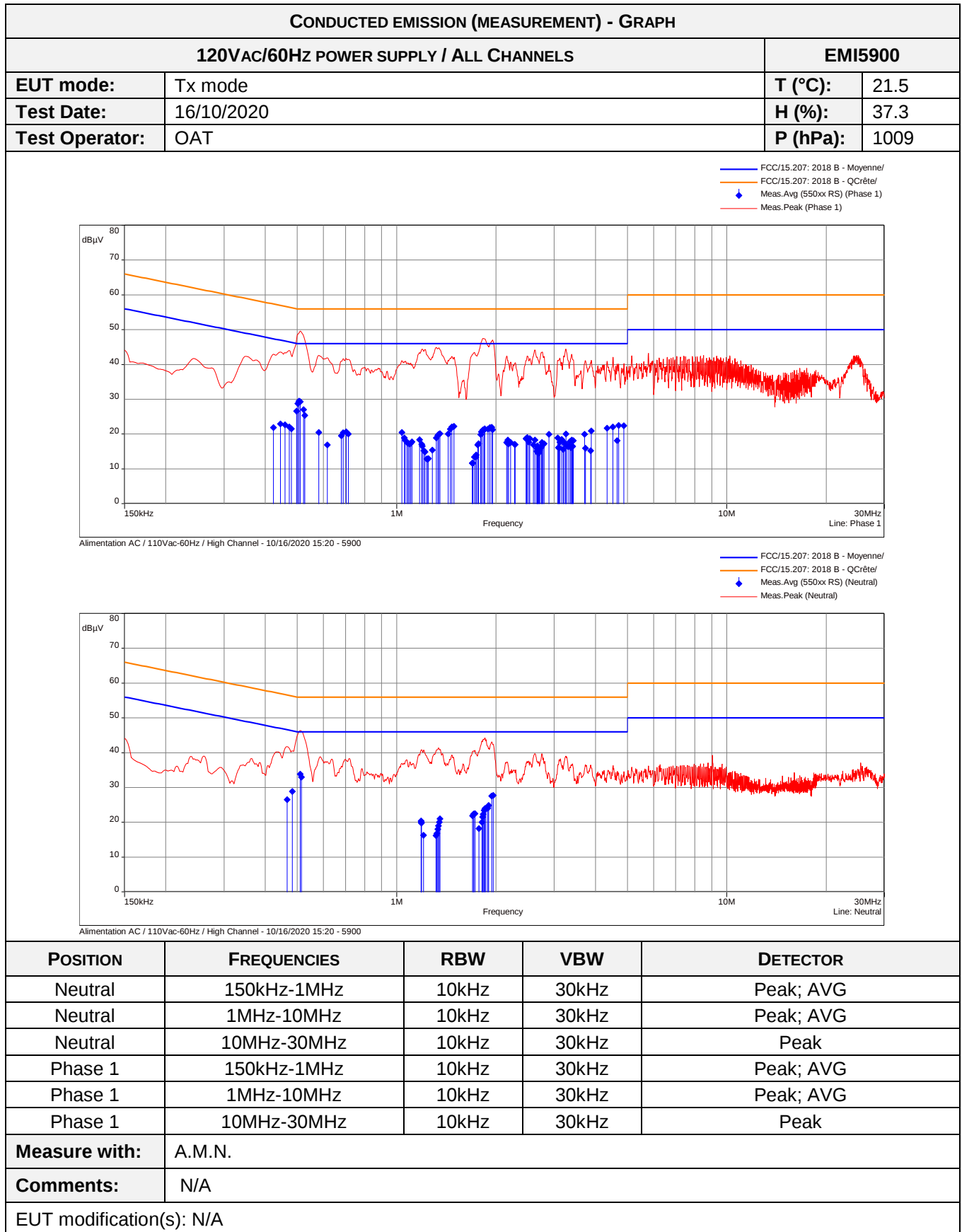
Blank cells = Permanent validity

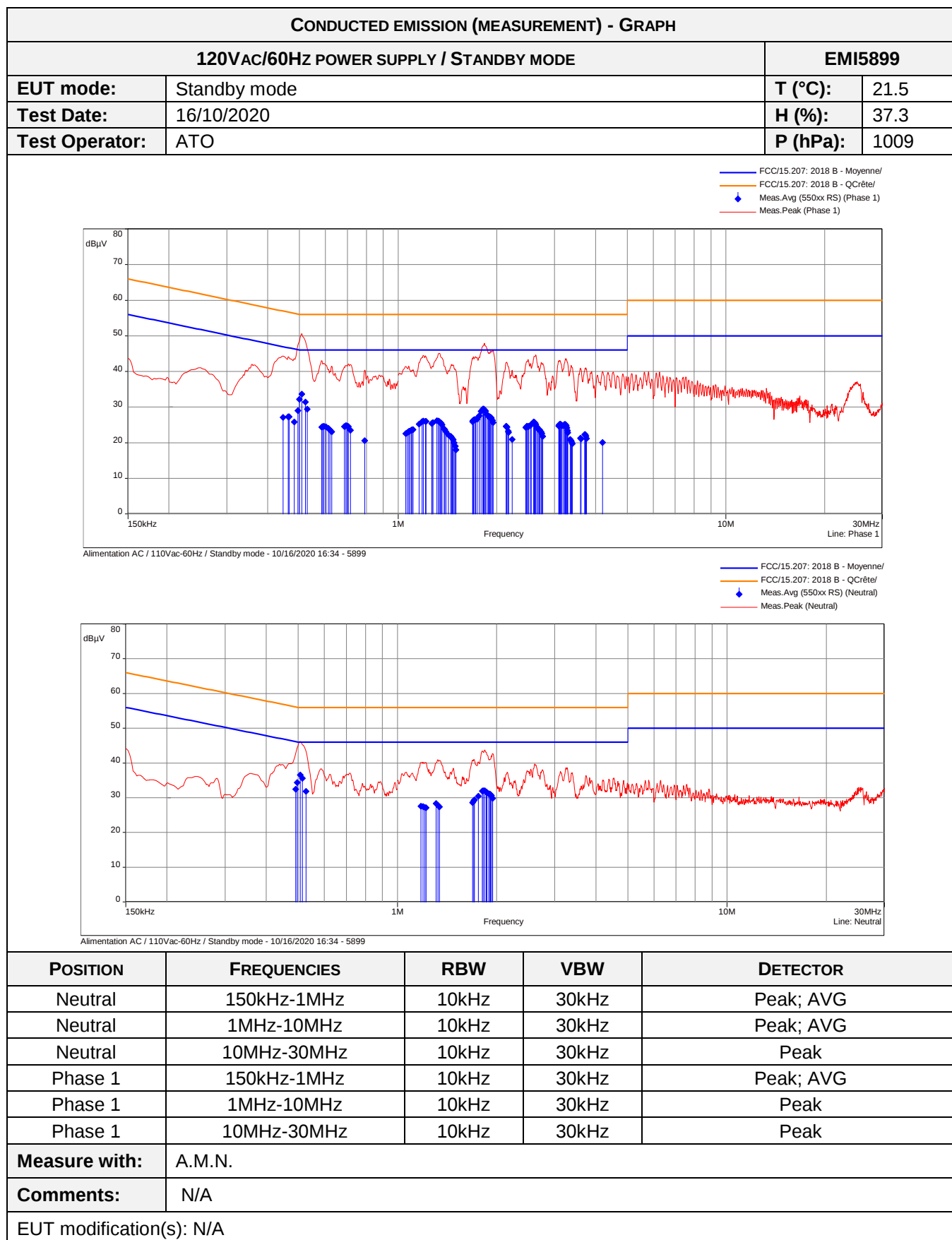
#### TEST SETUP PHOTO(S) - 120VAC/60HZ POWER SUPPLY / LOW CHANNEL



| CONDUCTED EMISSION (MEASUREMENT) - TABULATED RESULTS |                      |                       |                 |                  |                  |                                 |
|------------------------------------------------------|----------------------|-----------------------|-----------------|------------------|------------------|---------------------------------|
| 120VAC/60Hz POWER SUPPLY / TX MODE ALL CHANNELS      |                      |                       |                 |                  |                  | EMI5889                         |
| Terminal                                             | Test Frequency (MHz) | Gain/Loss Factor (dB) | Level Pk (dBμV) | Level Avg (dBμV) | Limit Avg (dBμV) | Margin Lvl Avg - Limit Avg (dB) |
| Neutral                                              | 0.466                | 10.4                  | 36.95           | 26.48            | 46.59            | -20.11                          |
| Neutral                                              | 0.483                | 10.4                  | 37.84           | 28.9             | 46.29            | -17.39                          |
| Neutral                                              | 0.511                | 10.4                  | 42.53           | 33.8             | 46               | -12.2                           |
| Neutral                                              | 0.515                | 10.4                  | 41.85           | 32.98            | 46               | -13.02                          |
| Neutral                                              | 1.699                | 10.47                 | 34.51           | 21.9             | 46               | -24.1                           |
| Neutral                                              | 1.708                | 10.47                 | 33.5            | 22.21            | 46               | -23.79                          |
| Neutral                                              | 1.714                | 10.47                 | 33.82           | 22.35            | 46               | -23.65                          |
| Neutral                                              | 1.725                | 10.47                 | 32.25           | 22.48            | 46               | -23.52                          |
| Neutral                                              | 1.822                | 10.48                 | 32.53           | 21.55            | 46               | -24.45                          |
| Neutral                                              | 1.828                | 10.48                 | 32.61           | 22.3             | 46               | -23.7                           |
| Neutral                                              | 1.840                | 10.48                 | 34.67           | 23.45            | 46               | -22.55                          |
| Neutral                                              | 1.851                | 10.48                 | 35.2            | 23.93            | 46               | -22.07                          |
| Neutral                                              | 1.865                | 10.48                 | 36.06           | 23.81            | 46               | -22.19                          |
| Neutral                                              | 1.887                | 10.48                 | 35.24           | 24.02            | 46               | -21.98                          |
| Neutral                                              | 1.901                | 10.48                 | 34.74           | 24.8             | 46               | -21.2                           |
| Neutral                                              | 1.941                | 10.48                 | 35.44           | 27.52            | 46               | -18.48                          |
| Neutral                                              | 1.959                | 10.48                 | 37.46           | 27.68            | 46               | -18.32                          |
| Phase                                                | 0.445                | 10.39                 | 40.02           | 22.95            | 46.97            | -24.02                          |
| Phase                                                | 0.459                | 10.4                  | 39.36           | 22.64            | 46.72            | -24.08                          |
| Phase                                                | 0.473                | 10.4                  | 40.01           | 22.08            | 46.47            | -24.39                          |
| Phase                                                | 0.497                | 10.4                  | 44.24           | 26.56            | 46.05            | -19.49                          |
| Phase                                                | 0.502                | 10.4                  | 45.77           | 28.77            | 46               | -17.23                          |
| Phase                                                | 0.507                | 10.4                  | 46.11           | 29.44            | 46               | -16.56                          |
| Phase                                                | 0.511                | 10.4                  | 46.23           | 29.32            | 46               | -16.68                          |
| Phase                                                | 0.523                | 10.4                  | 44.22           | 27               | 46               | -19                             |
| Phase                                                | 0.528                | 10.4                  | 42.62           | 25.4             | 46               | -20.6                           |
| Phase                                                | 4.339                | 10.54                 | 39.07           | 21.7             | 46               | -24.3                           |
| Phase                                                | 4.521                | 10.55                 | 39.64           | 22               | 46               | -24                             |
| Phase                                                | 4.700                | 10.55                 | 39.81           | 22.5             | 46               | -23.5                           |
| Phase                                                | 4.880                | 10.55                 | 38.77           | 22.36            | 46               | -23.64                          |

| CONDUCTED EMISSION (MEASUREMENT) - TABULATED RESULTS |                      |                       |                 |                  |                  |                                 |
|------------------------------------------------------|----------------------|-----------------------|-----------------|------------------|------------------|---------------------------------|
| 120VAC/60HZ POWER SUPPLY / STANDBY MODE              |                      |                       |                 |                  |                  | EMI5891                         |
| Terminal                                             | Test Frequency (MHz) | Gain/Loss Factor (dB) | Level Pk (dBμV) | Level Avg (dBμV) | Limit Avg (dBμV) | Margin Lvl Avg - Limit Avg (dB) |
| Neutral                                              | 0.492                | 10.4                  | 46.41           | 32.46            | 46.14            | -13.68                          |
| Neutral                                              | 0.496                | 10.4                  | 43.96           | 34.34            | 46.06            | -11.72                          |
| Neutral                                              | 0.507                | 10.4                  | 46.27           | 36.55            | 46               | -9.45                           |
| Neutral                                              | 0.515                | 10.4                  | 45.05           | 35.57            | 46               | -10.43                          |
| Neutral                                              | 0.528                | 10.4                  | 41.95           | 31.79            | 46               | -14.21                          |
| Neutral                                              | 1.178                | 10.45                 | 38.88           | 27.57            | 46               | -18.43                          |
| Neutral                                              | 1.221                | 10.45                 | 38.92           | 27.07            | 46               | -18.93                          |
| Neutral                                              | 1.311                | 10.45                 | 39.09           | 28.31            | 46               | -17.69                          |
| Neutral                                              | 1.342                | 10.46                 | 39.79           | 27.4             | 46               | -18.6                           |
| Neutral                                              | 1.690                | 10.47                 | 39.45           | 28.6             | 46               | -17.4                           |
| Neutral                                              | 1.713                | 10.47                 | 39.68           | 29.38            | 46               | -16.62                          |
| Neutral                                              | 1.759                | 10.47                 | 38.53           | 30.47            | 46               | -15.53                          |
| Neutral                                              | 1.809                | 10.48                 | 42.05           | 31.92            | 46               | -14.08                          |
| Neutral                                              | 1.820                | 10.48                 | 42.53           | 32.03            | 46               | -13.97                          |
| Neutral                                              | 1.840                | 10.48                 | 42.64           | 31.99            | 46               | -14.01                          |
| Neutral                                              | 1.859                | 10.48                 | 42.14           | 31.64            | 46               | -14.36                          |
| Neutral                                              | 1.869                | 10.48                 | 41.17           | 31.44            | 46               | -14.56                          |
| Neutral                                              | 1.908                | 10.48                 | 39.69           | 31.07            | 46               | -14.93                          |
| Neutral                                              | 1.927                | 10.48                 | 40.9            | 30.57            | 46               | -15.43                          |
| Neutral                                              | 1.943                | 10.48                 | 40.96           | 29.79            | 46               | -16.21                          |
| Phase                                                | 0.462                | 10.4                  | 43.5            | 27.27            | 46.65            | -19.38                          |
| Phase                                                | 0.465                | 10.4                  | 44.02           | 27.27            | 46.6             | -19.33                          |
| Phase                                                | 0.494                | 10.4                  | 46.37           | 28.97            | 46.1             | -17.13                          |
| Phase                                                | 0.500                | 10.4                  | 48.53           | 32.19            | 46               | -13.81                          |
| Phase                                                | 0.508                | 10.4                  | 50.22           | 33.64            | 46               | -12.36                          |
| Phase                                                | 0.528                | 10.4                  | 46.17           | 29.44            | 46               | -16.56                          |
| Phase                                                | 1.312                | 10.45                 | 43.68           | 26.12            | 46               | -19.88                          |
| Phase                                                | 1.711                | 10.47                 | 44.32           | 26.54            | 46               | -19.46                          |
| Phase                                                | 1.722                | 10.47                 | 44.18           | 26.54            | 46               | -19.46                          |
| Phase                                                | 1.741                | 10.47                 | 43.14           | 26.62            | 46               | -19.38                          |
| Phase                                                | 1.790                | 10.47                 | 45.48           | 28.84            | 46               | -17.16                          |
| Phase                                                | 1.814                | 10.48                 | 46.86           | 29.46            | 46               | -16.54                          |
| Phase                                                | 1.833                | 10.48                 | 47.44           | 29.24            | 46               | -16.76                          |
| Phase                                                | 1.842                | 10.48                 | 46.68           | 28.98            | 46               | -17.02                          |
| Phase                                                | 1.847                | 10.48                 | 46.95           | 28.86            | 46               | -17.14                          |
| Phase                                                | 1.868                | 10.48                 | 45.34           | 27.89            | 46               | -18.11                          |
| Phase                                                | 1.905                | 10.48                 | 43.89           | 27.25            | 46               | -18.75                          |
| Phase                                                | 1.924                | 10.48                 | 44.91           | 26.93            | 46               | -19.07                          |





## 8.2.6dB bandwidth

|                                                                                                                                                                                                                                                                                                                                                        |                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                             | FCC part 15 Radio part 15.247 and RSS-247 |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                    | FCC part 15.247 and RSS-247               |
| <b>Test description:</b> a) (2):<br>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.<br>EUT is connected to the measuring receiver via 50Ω attenuator(s). Tests are done in max-hold mode in order to capture all channels. |                                           |

| TEST CASE AND CONDITIONS | SEVERITY | RESULT TAB. | VERDICT     |
|--------------------------|----------|-------------|-------------|
| Low Channel              | >500kHz  | EMI8055     | <b>PASS</b> |
| Mid Channel              | >500kHz  | EMI8056     | <b>PASS</b> |
| High Channel             | >500kHz  | EMI8057     | <b>PASS</b> |

| LABORATORY PARAMETERS:            | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|-----------------------------------|----------------------------|-----------------|
| Ambient Temperature               | 15 to 35 °C                | 22.1 °C         |
| Relative Humidity                 | 20 to 75 %                 | 47.3 %          |
| Atmospheric pressure              | N/A                        | 999 hPa         |
| <b>Test method deviation:</b> N/A |                            |                 |
| Supplementary information:        |                            |                 |

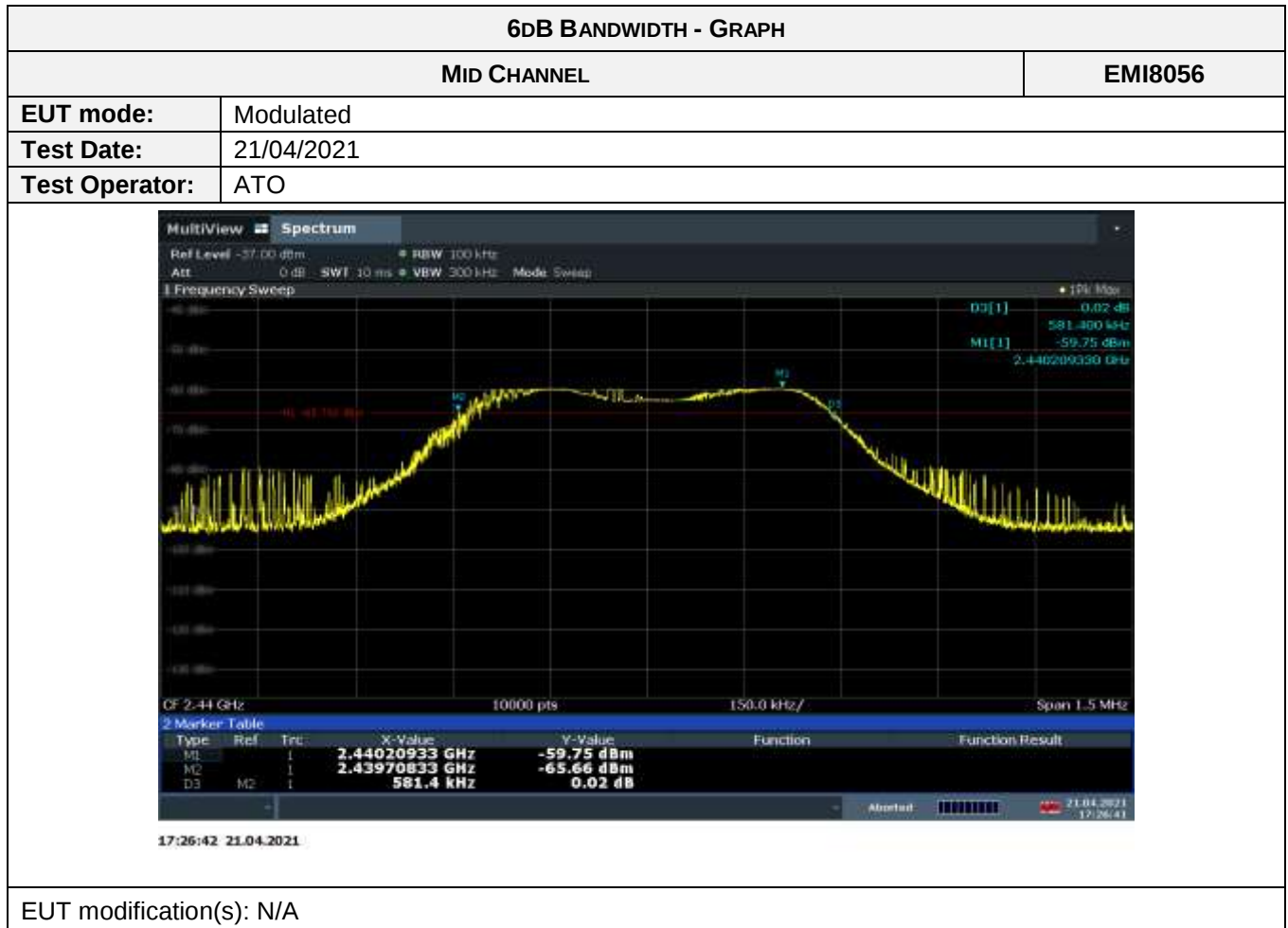
| TEST EQUIPMENT USED |                     |           |            |            |            |
|---------------------|---------------------|-----------|------------|------------|------------|
| CATEGORY            | BRAND               | TYPE      | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | ETS-Lindgren        | 3117      | 5456       | 24/07/2019 | 24/09/2022 |
| Cable               | SUCOFLEX            | N-3m      | 14379      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX            | N-5,5m    | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner      | SF102K    | 16041      | 28/02/2019 | 28/04/2021 |
| Receiver            | Rohde & Schwarz     | FSW43     | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF           | C.V2      | 1423       | 04/10/2019 | 04/12/2022 |
| Software            | Nexio               |           | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1    | 7562       | 25/01/2019 | 25/03/2021 |
| Thermohygrometer    | Bioblock Scientific | Météostar | 0963       | 26/01/2019 | 26/09/2021 |

Blank cells = Permanent validity

TEST SETUP PHOTO(S) – 6dB BANDWIDTH







| 6dB BANDWIDTH - TABULATED RESULTS |        |                |         |
|-----------------------------------|--------|----------------|---------|
| MID CHANNEL                       |        |                |         |
| Frequency                         | RBW    | 6 dB Bandwidth | Limit   |
| 2440 MHz                          | 100kHz | 581.4 kHz      | >500kHz |

| 6dB BANDWIDTH - GRAPH                                                               |            |
|-------------------------------------------------------------------------------------|------------|
| HIGH CHANNEL                                                                        |            |
| EUT mode:                                                                           | Modulated  |
| Test Date:                                                                          | 21/04/2021 |
| Test Operator:                                                                      | ATO        |
|  |            |
| EUT modification(s): N/A                                                            |            |

| 6dB BANDWIDTH - TABULATED RESULTS |        |                |         |
|-----------------------------------|--------|----------------|---------|
| HIGH CHANNEL                      |        |                |         |
| Frequency                         | RBW    | 6 dB Bandwidth | Limit   |
| 2476 MHz                          | 100kHz | 535.95 kHz     | >500kHz |

### 8.3. Occupied bandwidth

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FCC part 15 Radio part 15.247 and RSS-247 |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FCC part 15.247 and RSS-247               |
| <b>Test description:</b> The occupied bandwidth (OBW) is the Frequency Range in which 99 % of the total mean power of a given emission falls. The residual part of the total power being denoted as $\beta$ , which, in cases of symmetrical spectra, splits up into $\beta/2$ on each side of the spectrum. Unless otherwise specified, $\beta/2$ is taken as 0,5 %.<br>The maximum occupied bandwidth includes all associated side bands above the appropriate emissions level and the frequency error or drift under extreme test conditions. |                                           |

| TEST CASE AND CONDITIONS | SEVERITY | RESULT TAB. | VERDICT |
|--------------------------|----------|-------------|---------|
| Low Channel              | >500kHz  | EMI8058     | PASS    |
| Mid Channel              | >500kHz  | EMI8059     | PASS    |
| High Channel             | >500kHz  | EMI8060     | PASS    |

| LABORATORY PARAMETERS:            | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|-----------------------------------|----------------------------|-----------------|
| Ambient Temperature               | 15 to 35 °C                | 21.8 °C         |
| Relative Humidity                 | 20 to 75 %                 | 42.1 %          |
| Atmospheric pressure              | N/A                        | 1005 hPa        |
| <b>Test method deviation:</b> N/A |                            |                 |
| Supplementary information:        |                            |                 |

| TEST EQUIPMENT USED |                     |           |            |            |            |
|---------------------|---------------------|-----------|------------|------------|------------|
| CATEGORY            | BRAND               | TYPE      | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | ETS-Lindgren        | 3117      | 5456       | 24/07/2019 | 24/09/2022 |
| Cable               | SUCOFLEX            | N-3m      | 14379      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX            | N-5,5m    | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner      | SF102K    | 16041      | 28/02/2019 | 28/04/2021 |
| Receiver            | Rohde & Schwarz     | FSW43     | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF           | C.V2      | 1423       | 04/10/2019 | 04/12/2022 |
| Software            | Nexio               |           | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1    | 7562       | 25/01/2019 | 25/03/2021 |
| Thermohygrometer    | Bioblock Scientific | Météostar | 0963       | 26/01/2019 | 26/09/2021 |

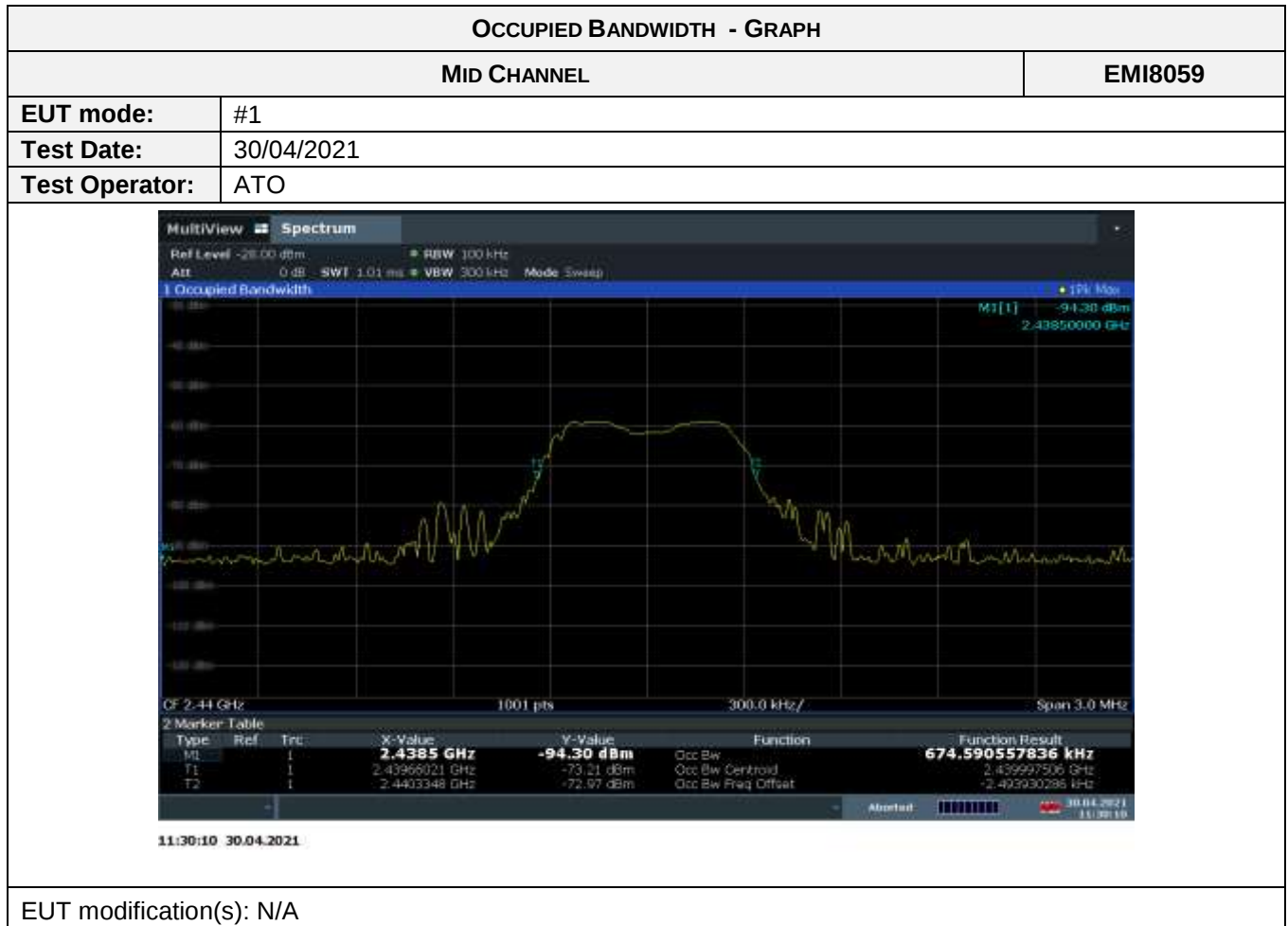
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TEST SETUP PHOTO(S) – 6dB BANDWIDTH



| OCCUPIED BANDWIDTH - GRAPH                                                                                     |            |
|----------------------------------------------------------------------------------------------------------------|------------|
| LOW CHANNEL                                                                                                    |            |
| EUT mode:                                                                                                      | #1         |
| Test Date:                                                                                                     | 30/04/2021 |
| Test Operator:                                                                                                 | ATO        |
|  <p>11:29:05 30.04.2021</p> |            |
| EUT modification(s): N/A                                                                                       |            |

| OCCUPIED BANDWIDTH - TABULATED RESULTS |         |            |          |
|----------------------------------------|---------|------------|----------|
| LOW CHANNEL                            |         |            |          |
| Frequency                              | RBW     | OBW 99%    | Limit    |
| 2404 MHz                               | 100 kHz | 651.91 kHz | > 500kHz |



| OCCUPIED BANDWIDTH - TABULATED RESULTS |         |            |          |
|----------------------------------------|---------|------------|----------|
| MID CHANNEL                            |         |            |          |
| Frequency                              | RBW     | OBW 99%    | Limit    |
| 2440 MHz                               | 100 kHz | 674.59 kHz | > 500kHz |



| OCCUPIED BANDWIDTH - TABULATED RESULTS |         |             |          |
|----------------------------------------|---------|-------------|----------|
| HIGH CHANNEL                           |         |             |          |
| Frequency                              | RBW     | OBW 99%     | Limit    |
| 2476 MHz                               | 100 kHz | 1192.02 kHz | > 500kHz |

#### 8.4. Maximum effective isotropic radiated power

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FCC part 15 Radio part 15.247 and RSS-247 |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FCC part 15.247 and RSS-247               |
| <b>Test description:</b> EUT is set on an insulating support at 150cm above the ground reference plane.<br>Measurement are done on a normalized test site by the substitution method.<br>The test antenna is oriented in the two polarizations (vertical and horizontal), and the product is rotated at 360° in the horizontal plane (See photo(s) for initial position of the EUT(0°)). If applicable the test antenna was raised and lowered through the specified range of height until a maximum signal level is detected.<br>For portable equipments a research of maximum level is done on the 3 axes. Only the highest levels are recorded. |                                           |

| TESTED CONFIGURATION                | PARAMETER             | SEVERITY | RESULT TAB. | VERDICT     |
|-------------------------------------|-----------------------|----------|-------------|-------------|
| EIRP / All Positions / Low channel  | 2.402GHz-<br>2.406GHz | 30dBm    | EMI6692     | <b>PASS</b> |
| EIRP / All Positions / Mid channel  | 2.438GHz-<br>2.442GHz | 30dBm    | EMI6693     | <b>PASS</b> |
| EIRP / All Positions / High channel | 2.474GHz-<br>2.478GHz | 30dBm    | EMI6694     | <b>PASS</b> |

| LABORATORY PARAMETERS:            | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|-----------------------------------|----------------------------|-----------------|
| Ambient Temperature               | 15 to 35 °C                | See Graph(es)   |
| Relative Humidity                 | 20 to 75 %                 | See Graph(es)   |
| Atmospheric pressure              | N/A                        | See Graph(es)   |
| <b>Test method deviation:</b> N/A |                            |                 |
| Supplementary information: N/A    |                            |                 |

| TEST EQUIPMENT USED |                     |           |            |            |            |
|---------------------|---------------------|-----------|------------|------------|------------|
| CATEGORY            | BRAND               | TYPE      | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | ETS-Lindgren        | 3117      | 5456       | 24/07/2019 | 24/09/2022 |
| Attenuator          | EMITECH             | SUB.V2-H  | 14495      | 13/01/2021 | 13/03/2022 |
| Attenuator          | EMITECH             | SUB.V2-V  | 14496      | 13/01/2021 | 13/03/2022 |
| Cable               | MegaPhase           | N-3m      | 14852      | 30/10/2018 | 30/06/2021 |
| Cable               | SUCOFLEX            | N-5,5m    | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner      | SF102K    | 16041      | 28/02/2019 | 28/04/2021 |
| Receiver            | Rohde & Schwarz     | FSW43     | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF           | C.V2      | 1423       | 04/10/2019 | 04/12/2022 |
| Software            | Nexio               |           | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1    | 7562       | 25/01/2019 | 25/03/2021 |
| Thermohygrometer    | Bioblock Scientific | Météostar | 0963       | 25/01/2019 | 25/03/2021 |

Blank cells = Permanent validity

TEST SETUP PHOTO(S) - POSITION 1



TEST SETUP PHOTO(S) - POSITION 2

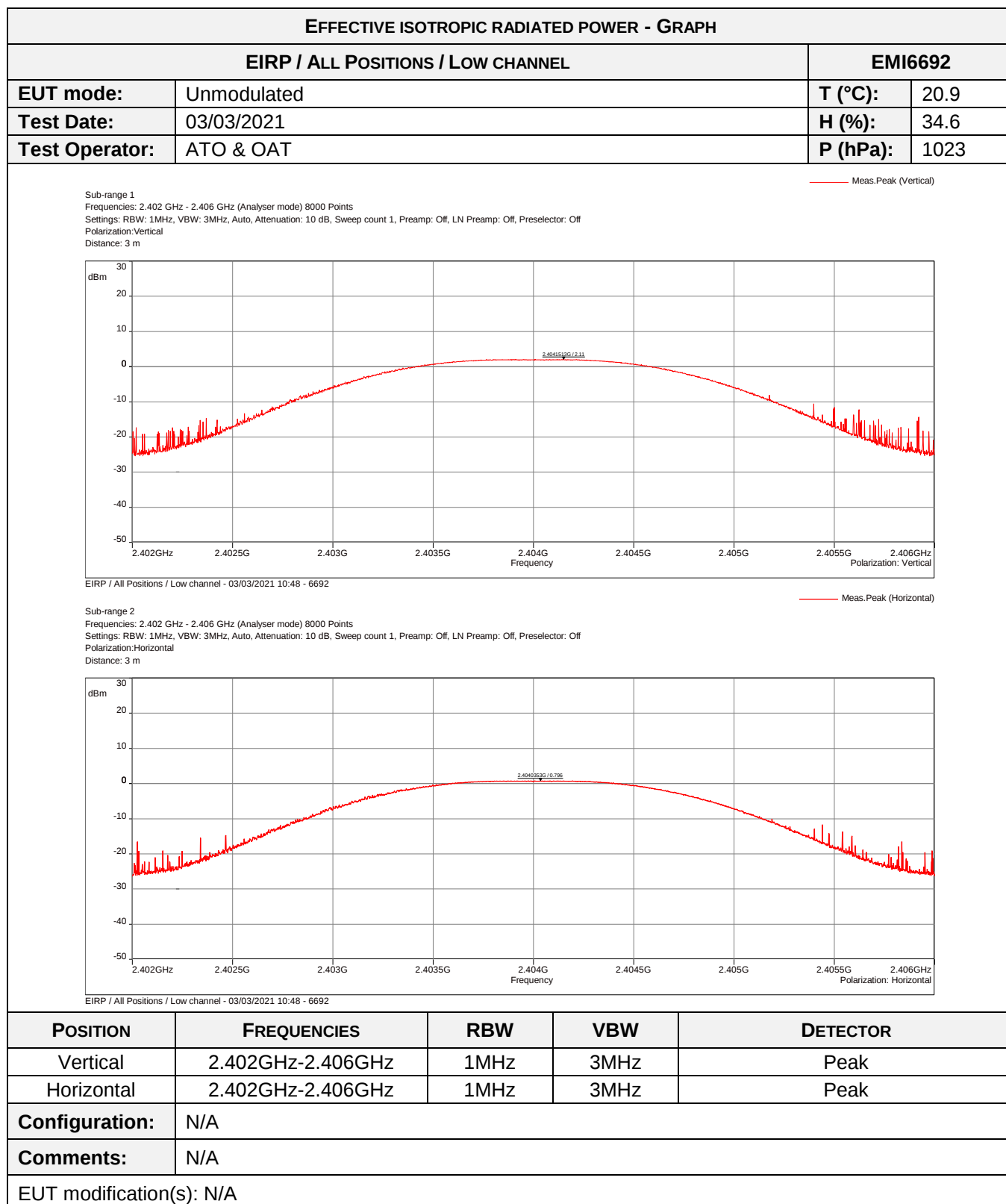


TEST SETUP PHOTO(S) - POSITION 3

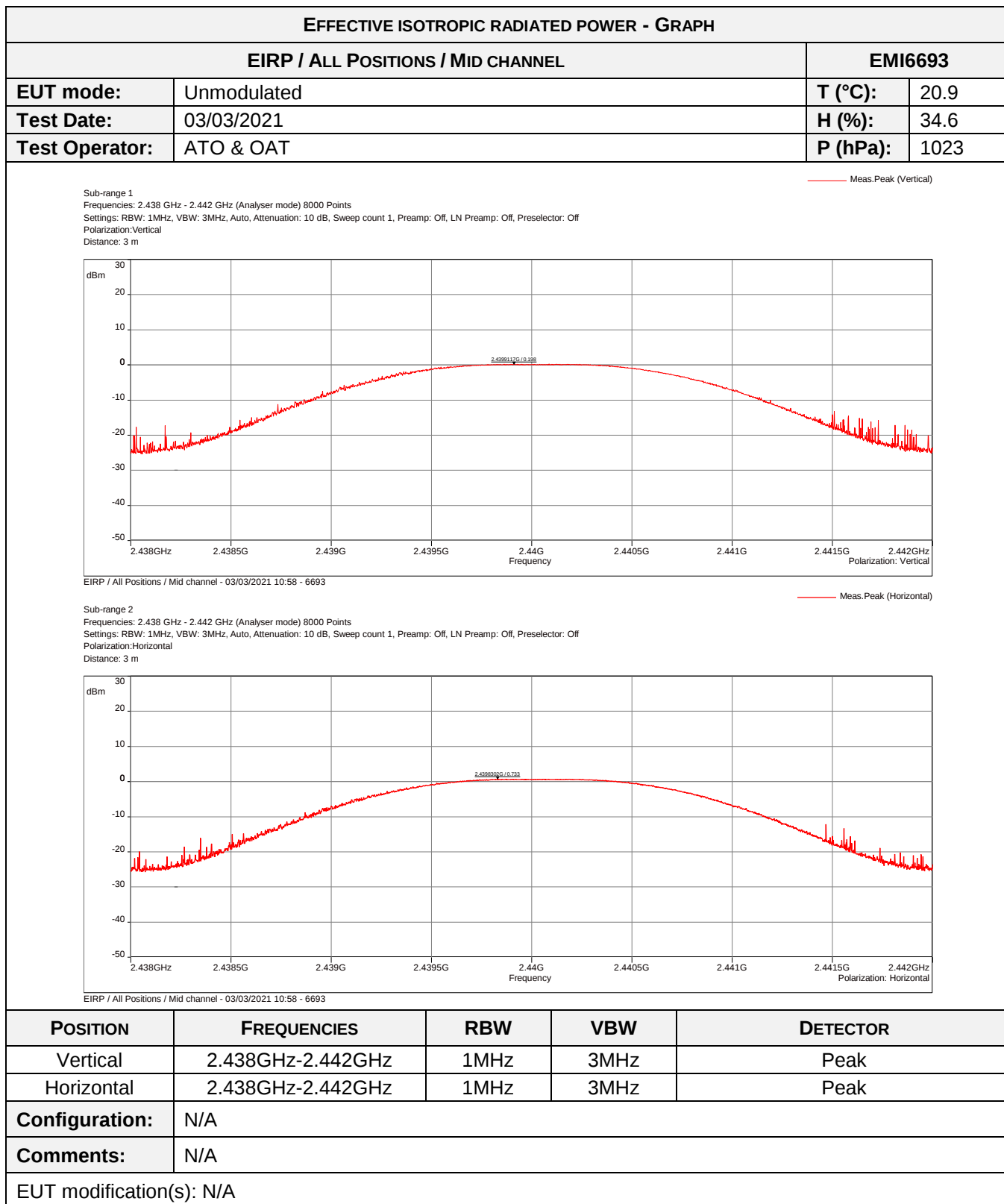


TEST SETUP PHOTO(S) - EIRP

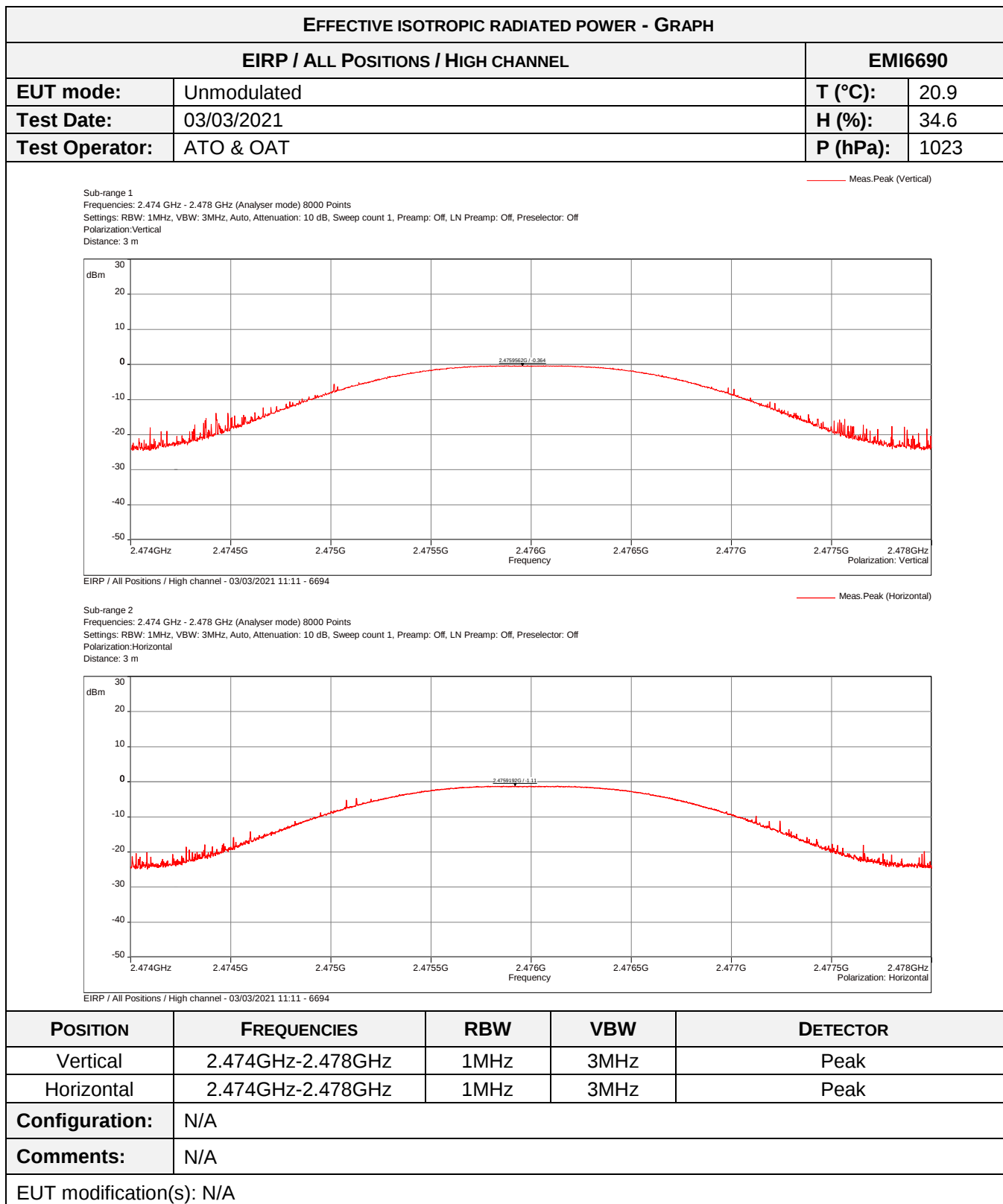




| EFFECTIVE ISOTROPIC RADIATED POWER - TABULATED RESULTS |              |             |             |
|--------------------------------------------------------|--------------|-------------|-------------|
| EIRP / ALL POSITIONS / LOW CHANNEL                     |              |             | EMI6692     |
| Frequency (MHz)                                        | Polarization | Level (dBm) | Limit (dBm) |
| 2404.15                                                | Vertical     | 2.11        | 30          |
| 2404.03                                                | Horizontal   | 0.796       | 30          |



| EFFECTIVE ISOTROPIC RADIATED POWER - TABULATED RESULTS |              |             |             |
|--------------------------------------------------------|--------------|-------------|-------------|
| EIRP / ALL POSITIONS / MID CHANNEL                     |              |             | EMI6693     |
| Frequency (MHz)                                        | Polarization | Level (dBm) | Limit (dBm) |
| 2439.91                                                | Vertical     | 0.198       | 30          |
| 2439.83                                                | Horizontal   | 0.733       | 30          |



| EFFECTIVE ISOTROPIC RADIATED POWER - TABULATED RESULTS |              |             |             |
|--------------------------------------------------------|--------------|-------------|-------------|
| EIRP / ALL POSITIONS / HIGH CHANNEL                    |              |             | EMI6690     |
| Frequency (MHz)                                        | Polarization | Level (dBm) | Limit (dBm) |
| 2475.95                                                | Vertical     | -0.364      | 30          |
| 2475.91                                                | Horizontal   | -1.11       | 30          |

## 8.5. Band-edge compliance

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FCC part 15 Radio part 15.247 and RSS-247 |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FCC part 15.247 subclause d) and RSS-247  |
| <b>Test description: d)</b><br>In any 100 kHz bandwidth outside the frequency band in which the 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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.<br>EUT is connected to the measuring receiver via 50Ω attenuator(s). Only the highest levels are recorded. |                                           |

| TESTED CONFIGURATION         | PARAMETER      | SEVERITY | RESULT TAB. | VERDICT     |
|------------------------------|----------------|----------|-------------|-------------|
| All Positions / Low channel  | 2.38GHz-2.5GHz | >20dBc   | EMI6723     | <b>PASS</b> |
| All Positions / Mid channel  | 2.38GHz-2.5GHz | >20dBc   | EMI6725     | <b>PASS</b> |
| All Positions / High channel | 2.38GHz-2.5GHz | >20dBc   | EMI6727     | <b>PASS</b> |

| LABORATORY PARAMETERS:            | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|-----------------------------------|----------------------------|-----------------|
| Ambient Temperature               | 15 to 35 °C                | See Graph(es)   |
| Relative Humidity                 | 20 to 75 %                 | See Graph(es)   |
| Atmospheric pressure              | N/A                        | See Graph(es)   |
| <b>Test method deviation:</b> N/A |                            |                 |
| Supplementary information: N/A    |                            |                 |

| TEST EQUIPMENT USED |                     |           |            |            |            |
|---------------------|---------------------|-----------|------------|------------|------------|
| CATEGORY            | BRAND               | TYPE      | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | ETS-Lindgren        | 3117      | 5456       | 24/07/2019 | 24/09/2022 |
| Cable               | SUCOFLEX            | N-3m      | 14379      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX            | N-5,5m    | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner      | SF102K    | 16041      | 28/02/2019 | 28/04/2021 |
| Receiver            | Rohde & Schwarz     | FSW43     | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF           | C.V2      | 1423       | 04/10/2019 | 04/12/2022 |
| Software            | Nexio               |           | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1    | 7562       | 25/01/2019 | 25/03/2021 |
| Thermohygrometer    | Bioblock Scientific | Météostar | 0963       | 25/01/2019 | 25/03/2021 |

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

TEST SETUP PHOTO(S) - BAND EDGE / POSITION 1



TEST SETUP PHOTO(S) - BAND EDGE / POSITION 2

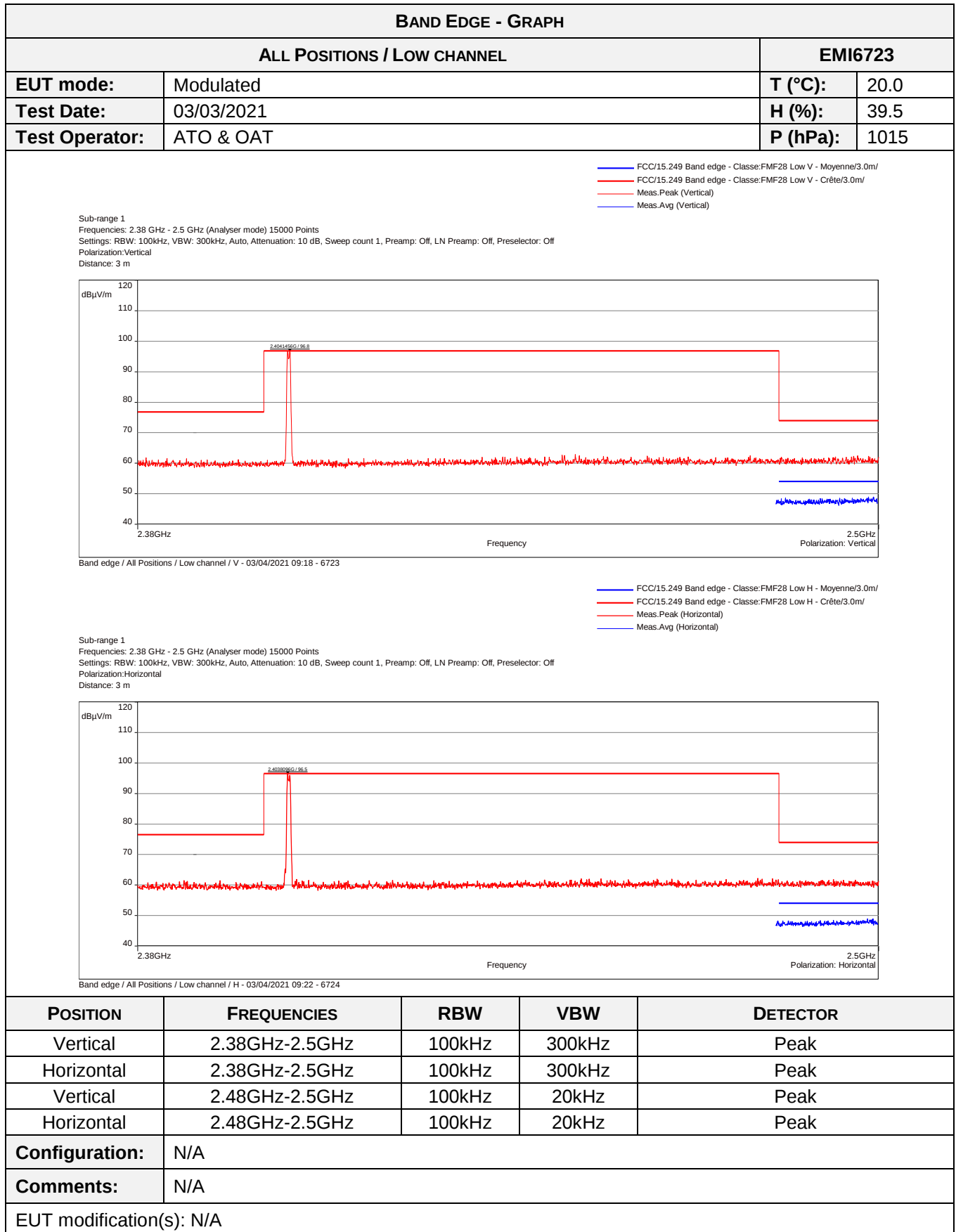


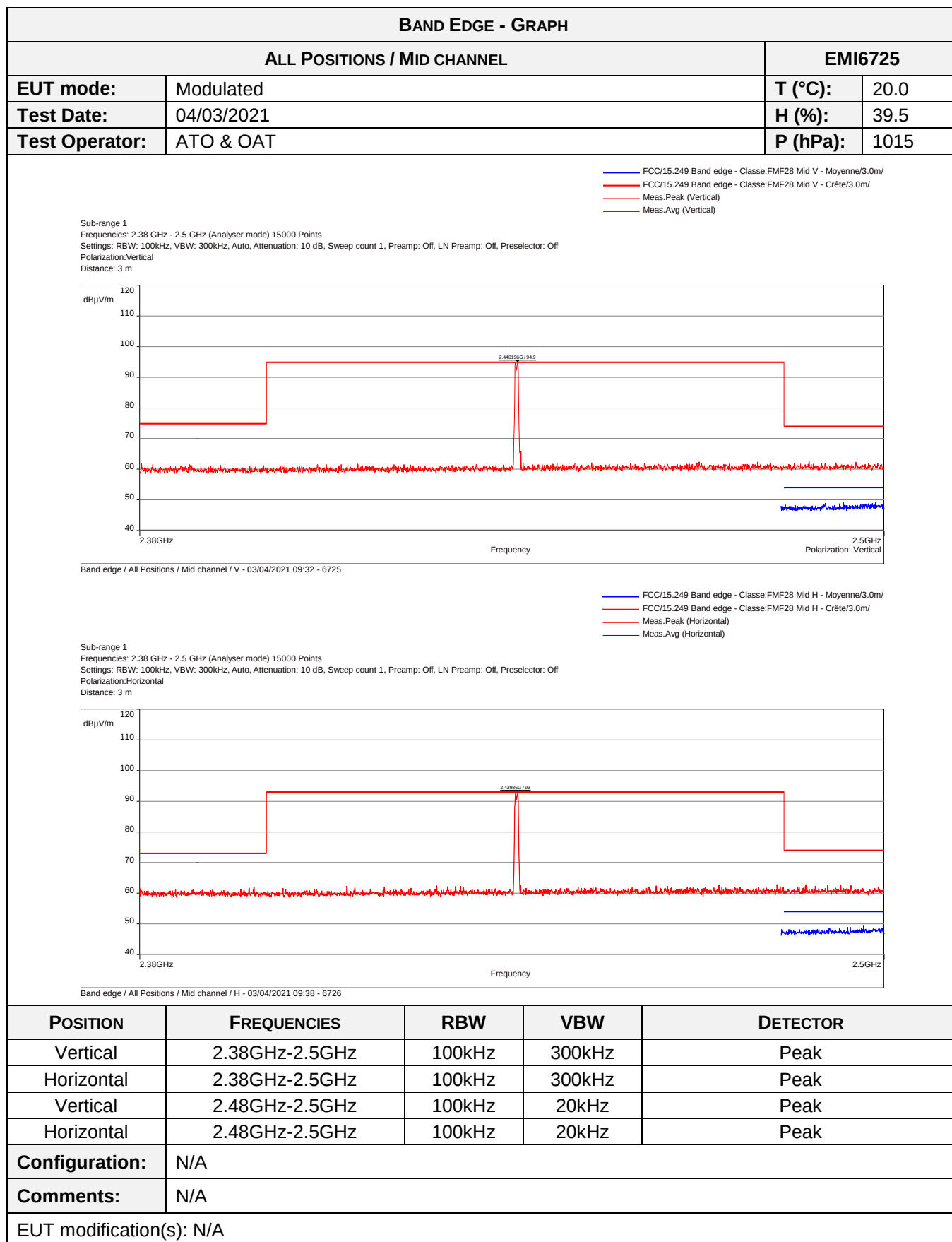
TEST SETUP PHOTO(S) - BAND EDGE / POSITION 3

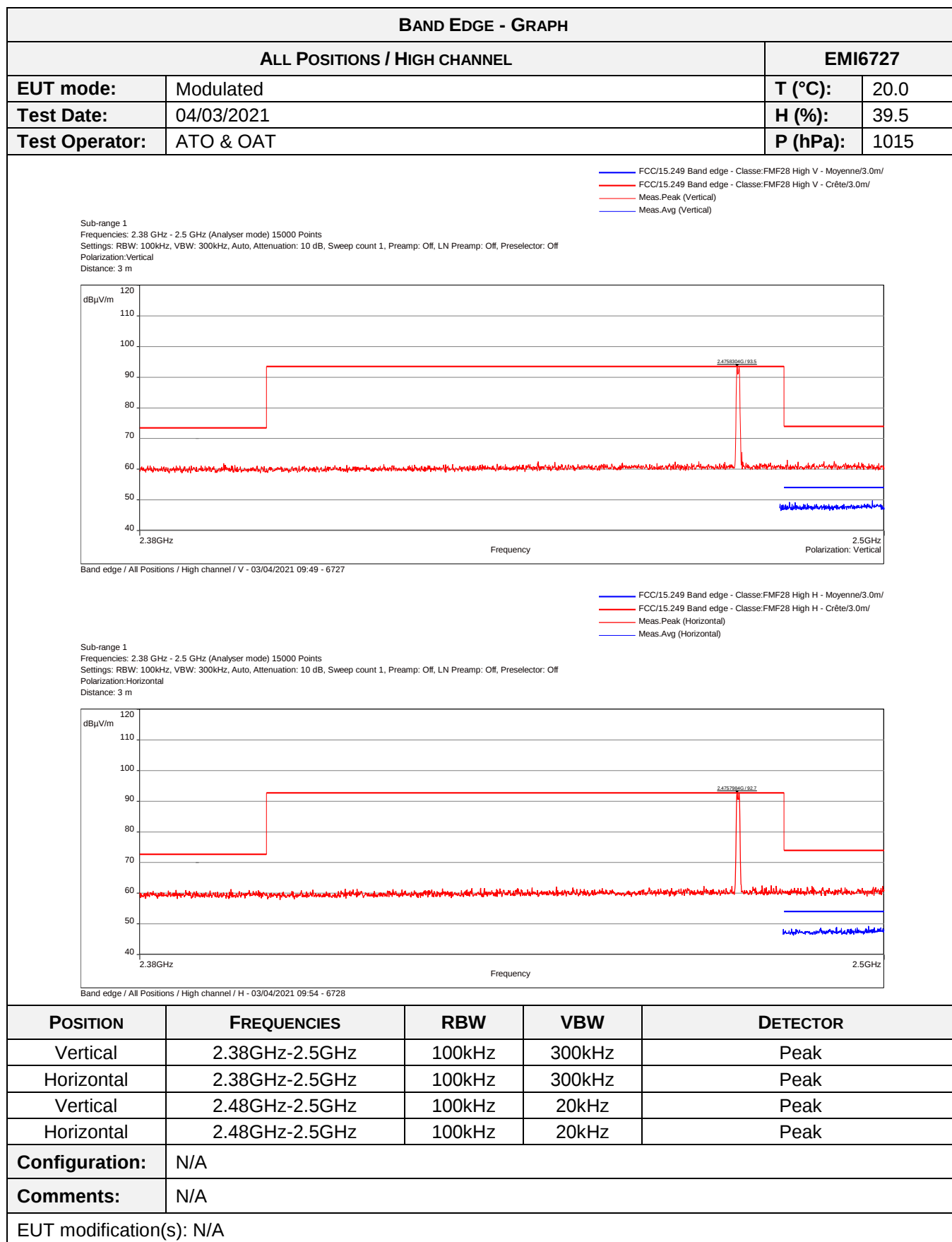


TEST SETUP PHOTO(S) - BAND EDGE









## 8.6. Power spectral density

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC part 15 Radio part 15.247 and RSS-247 |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FCC part 15.247 and RSS-247               |
| <b>Test description: e)</b><br>For digitally modulated systems, the 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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.<br>EUT is connected to the measuring receiver via 50Ω attenuator(s). Only the highest levels are recorded. |                                           |

| TESTED CONFIGURATION         | PARAMETER               | SEVERITY  | RESULT TAB. | VERDICT     |
|------------------------------|-------------------------|-----------|-------------|-------------|
| All Positions / Low channel  | 2.4035GHz-<br>2.4045GHz | 8dBm/3kHz | EMI6707     | <b>PASS</b> |
| All Positions / Mid channel  | 2.4395GHz-<br>2.4405GHz | 8dBm/3kHz | EMI6708     | <b>PASS</b> |
| All Positions / High channel | 2.4755GHz-<br>2.4765GHz | 8dBm/3kHz | EMI6709     | <b>PASS</b> |

| LABORATORY PARAMETERS:            | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|-----------------------------------|----------------------------|-----------------|
| Ambient Temperature               | 15 to 35 °C                | See Graph(s)    |
| Relative Humidity                 | 20 to 75 %                 | See Graph(s)    |
| Atmospheric pressure              | N/A                        | See Graph(s)    |
| <b>Test method deviation:</b> N/A |                            |                 |
| Supplementary information: N/A    |                            |                 |

| TEST EQUIPMENT USED |                     |           |            |            |            |
|---------------------|---------------------|-----------|------------|------------|------------|
| CATEGORY            | BRAND               | TYPE      | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | ETS-Lindgren        | 3117      | 5456       | 24/07/2019 | 24/09/2022 |
| Attenuator          | EMITECH             | SUB.V2-H  | 14495      | 13/01/2021 | 13/03/2022 |
| Attenuator          | EMITECH             | SUB.V2-V  | 14496      | 13/01/2021 | 13/03/2022 |
| Cable               | SUCOFLEX            | N-3m      | 14379      | 25/06/2019 | 25/08/2021 |
| Cable               | MegaPhase           | N-3m      | 14852      | 30/10/2018 | 30/06/2021 |
| Cable               | SUCOFLEX            | N-5,5m    | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner      | SF102K    | 16041      | 28/02/2019 | 28/04/2021 |
| Receiver            | Rohde & Schwarz     | FSW43     | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF           | C.V2      | 1423       | 04/10/2019 | 04/12/2022 |
| Software            | Nexio               |           | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1    | 7562       | 25/01/2019 | 25/03/2021 |
| Thermohygrometer    | Bioblock Scientific | Météostar | 0963       | 25/01/2019 | 25/03/2021 |

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

TEST SETUP PHOTO(S) - PSD / POSITION 1



TEST SETUP PHOTO(S) - PSD / POSITION 2

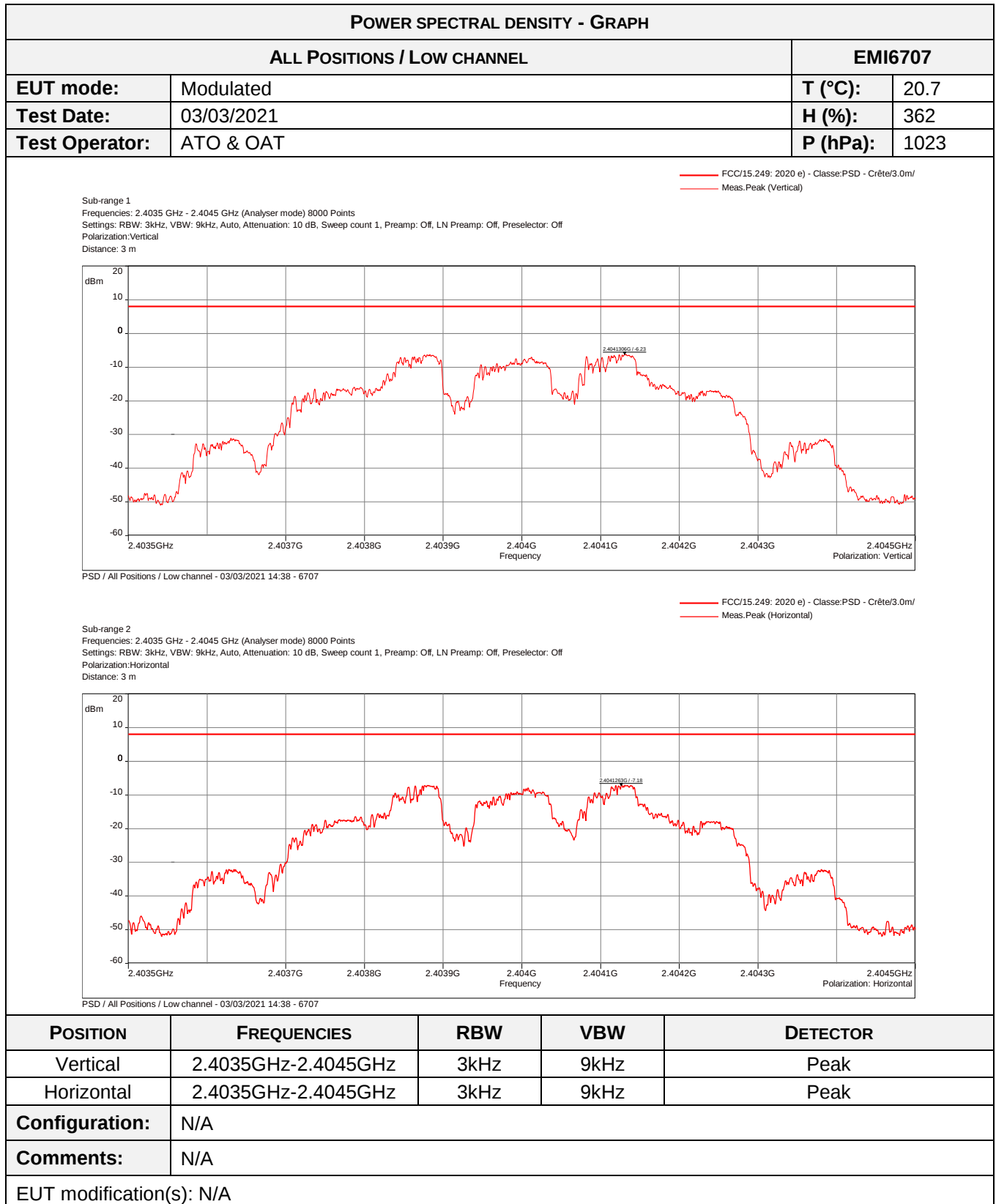


TEST SETUP PHOTO(S) - PSD / POSITION 3

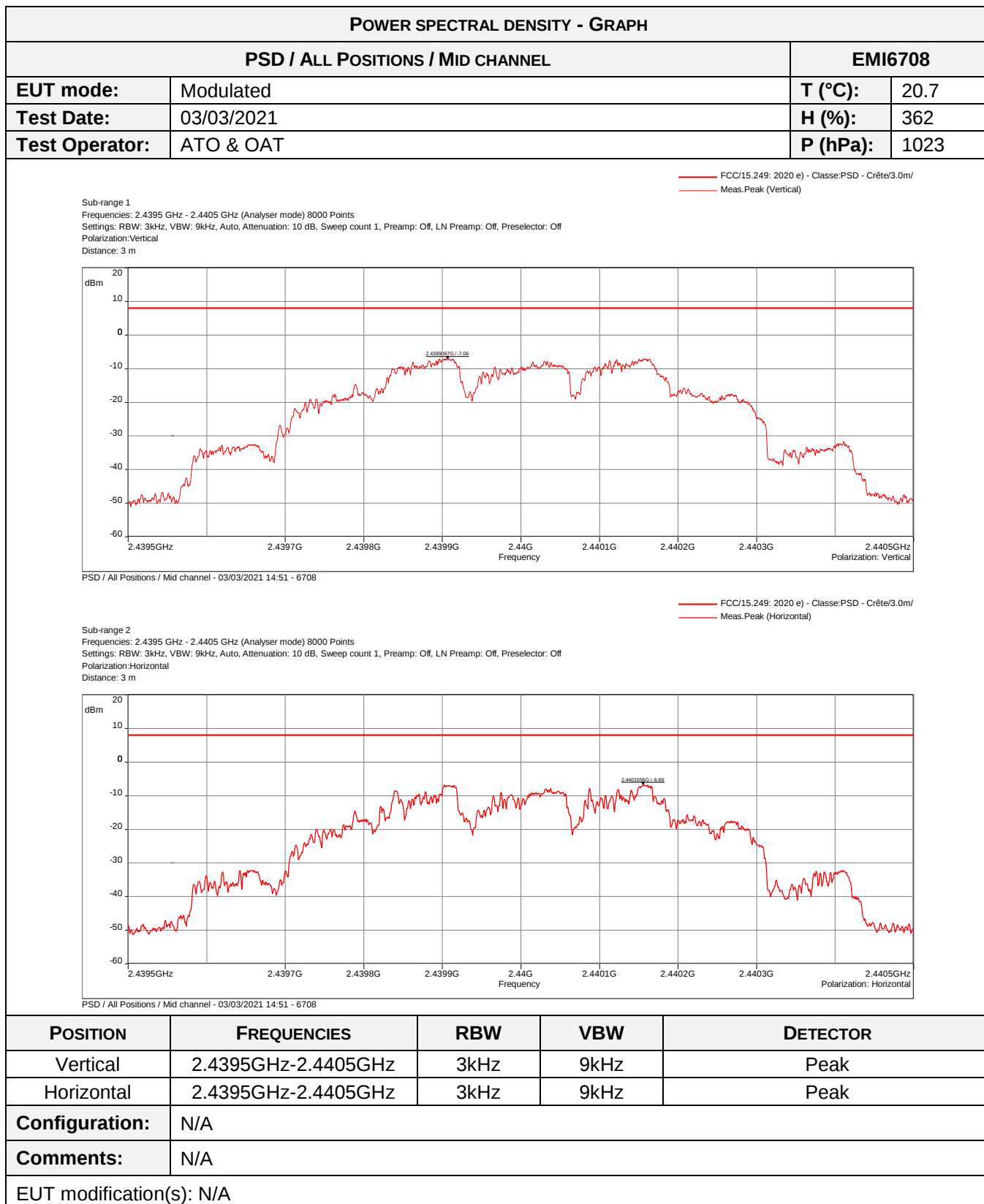


TEST SETUP PHOTO(S) - PSD

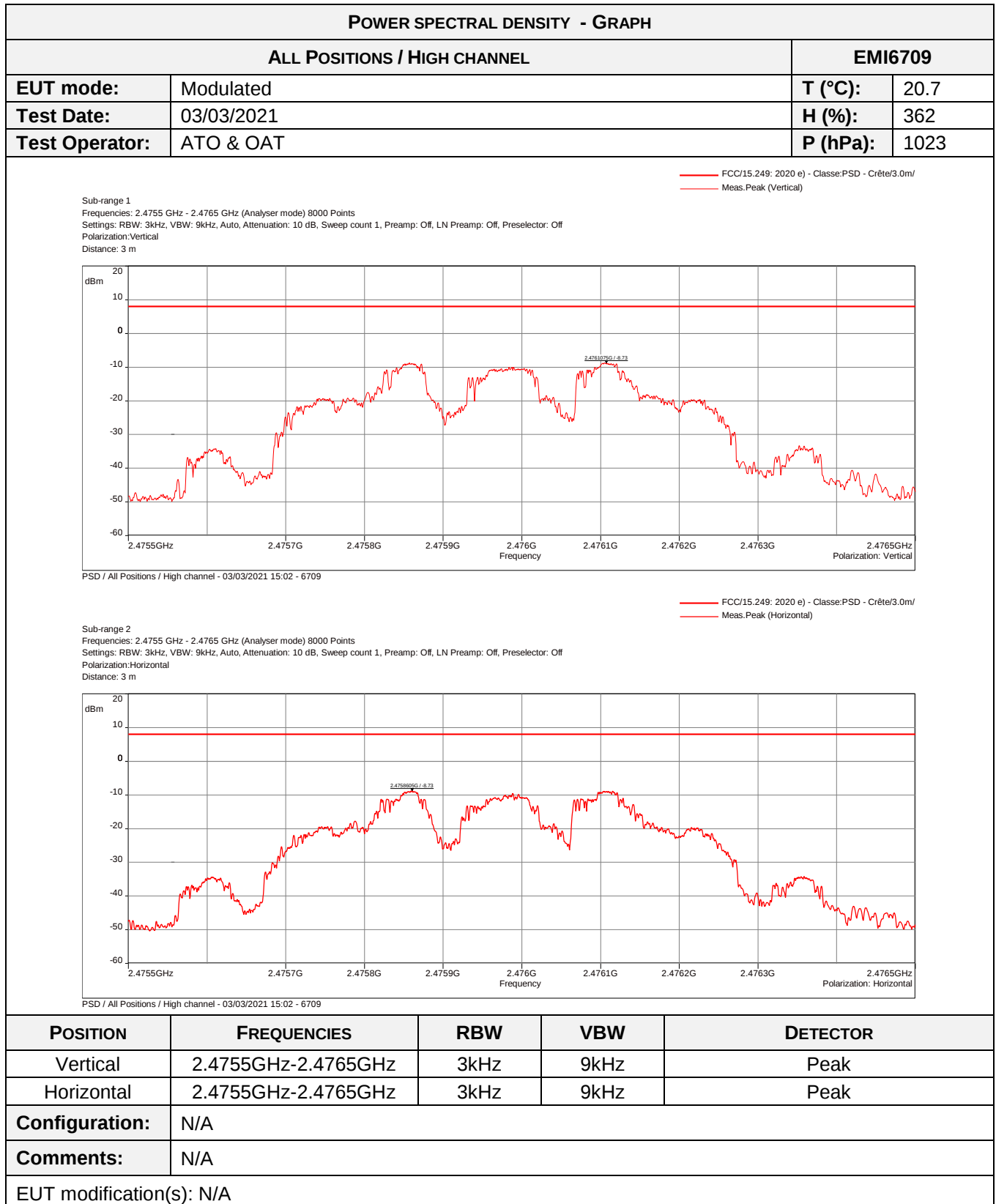




| POWER SPECTRAL DENSITY - TABULATED RESULTS |              |             |             |
|--------------------------------------------|--------------|-------------|-------------|
| ALL POSITIONS / LOW CHANNEL                |              |             | EMI6707     |
| Frequency (MHz)                            | Polarization | Level (dBm) | Limit (dBm) |
| 2404.13                                    | Vertical     | -6.23       | 8           |
| 2404.12                                    | Horizontal   | -7.18       | 8           |



| POWER SPECTRAL DENSITY - TABULATED RESULTS |              |             |             |
|--------------------------------------------|--------------|-------------|-------------|
| PSD / ALL POSITIONS / MID CHANNEL          |              |             | EMI6708     |
| Frequency (MHz)                            | Polarization | Level (dBm) | Limit (dBm) |
| 2439.90                                    | Vertical     | -7.06       | 8           |
| 2440.15                                    | Horizontal   | -6.66       | 8           |



| POWER SPECTRAL DENSITY - TABULATED RESULTS |              |             |             |
|--------------------------------------------|--------------|-------------|-------------|
| ALL POSITIONS / HIGH CHANNEL               |              |             | EMI6709     |
| Frequency (MHz)                            | Polarization | Level (dBm) | Limit (dBm) |
| 2476.10                                    | Vertical     | -8.73       | 8           |
| 2475.86                                    | Horizontal   | -8.73       | 8           |

## 8.7. Transmitter radiated spurious emissions at frequencies <30MHz

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FCC part 15 Radio part 15.247 and RSS-247                |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC part 15.109, 15.209, 15.205, 15.215 RSS-247, CNR Gen |
| <p><b>General test setup:</b> Spurious domain emission limits are limits on emissions at frequencies other than those of the carrier and sidebands associated with normal test modulation.</p> <p>EUT is set on an insulating support at 80cm above the ground reference plane.</p> <p>Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter in a anechoic chamber. The EUT was rotated 360° in order to maximize radiated levels. Test antenna was oriented in 3 axes (0°, 45° and 90°).</p> <p>Final measurements (quasi-peak) were then performed in a 10-meter Open Area Test Site that complies to CISPR 16 in the same measurement conditions.</p> <p>All frequencies were investigated, where applicable.</p> |                                                          |

| TESTED CONFIGURATION                      | PARAMETER  | SEVERITY | RESULT TAB. | VERDICT |
|-------------------------------------------|------------|----------|-------------|---------|
| Tx Mode / Low channel / 0° - Position 1   | 9kHz-30MHz | 15.209   | EMI5131     | PASS    |
| Tx Mode / Low channel / 45° - Position 1  | 9kHz-30MHz | 15.209   | EMI5132     | PASS    |
| Tx Mode / Low channel / 90° - Position 1  | 9kHz-30MHz | 15.209   | EMI5133     | PASS    |
| Tx Mode / Low channel / 0° - Position 2   | 9kHz-30MHz | 15.209   | EMI5134     | PASS    |
| Tx Mode / Low channel / 45° - Position 2  | 9kHz-30MHz | 15.209   | EMI5135     | PASS    |
| Tx Mode / Low channel / 90° - Position 2  | 9kHz-30MHz | 15.209   | EMI5136     | PASS    |
| Tx Mode / Low channel / 0° - Position 3   | 9kHz-30MHz | 15.209   | EMI5137     | PASS    |
| Tx Mode / Low channel / 45° - Position 3  | 9kHz-30MHz | 15.209   | EMI5138     | PASS    |
| Tx Mode / Low channel / 90° - Position 3  | 9kHz-30MHz | 15.209   | EMI5139     | PASS    |
| Tx Mode / High channel / 0° - Position 1  | 9kHz-30MHz | 15.209   | EMI5141     | PASS    |
| Tx Mode / High channel / 45° - Position 1 | 9kHz-30MHz | 15.209   | EMI5142     | PASS    |
| Tx Mode / High channel / 90° - Position 1 | 9kHz-30MHz | 15.209   | EMI5143     | PASS    |
| Tx Mode / High channel / 0° - Position 2  | 9kHz-30MHz | 15.209   | EMI5144     | PASS    |
| Tx Mode / High channel / 45° - Position 2 | 9kHz-30MHz | 15.209   | EMI5145     | PASS    |
| Tx Mode / High channel / 90° - Position 2 | 9kHz-30MHz | 15.209   | EMI5146     | PASS    |
| Tx Mode / High channel / 0° - Position 3  | 9kHz-30MHz | 15.209   | EMI5147     | PASS    |
| Tx Mode / High channel / 45° - Position 3 | 9kHz-30MHz | 15.209   | EMI5148     | PASS    |
| Tx Mode / High channel / 90° - Position 3 | 9kHz-30MHz | 15.209   | EMI5149     | PASS    |

| LABORATORY PARAMETERS:                                                                                                                                                                                                                                                                                                                                                                                                         | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                            | 15 to 35 °C                | See Graph(es)   |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                              | 20 to 75 %                 | See Graph(es)   |
| Atmospheric pressure                                                                                                                                                                                                                                                                                                                                                                                                           | N/A                        | See Graph(es)   |
| <b>Test method deviation:</b> N/A                                                                                                                                                                                                                                                                                                                                                                                              |                            |                 |
| <p>Supplementary information:</p> <p>From 9 kHz to 30MHz: limit indicated on the curves is calculated with 40 dB/decade extrapolation factor and 51.5 dB conversion factor.</p> <p>From 30MHz to 1GHz Quasi peak limit provided is the limit given in §15.209.</p> <p>Above 1GHz average limit in restricted bands §15.205 is 54dBµV/m. Otherwise, the limit is 20dB under carrier emission level at 3m without averaging.</p> |                            |                 |

| TEST EQUIPMENT USED |                     |           |            |            |            |
|---------------------|---------------------|-----------|------------|------------|------------|
| CATEGORY            | BRAND               | TYPE      | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | Rohde & Schwarz     | HFH2-Z2   | 5825       | 24/04/2020 | 24/06/2022 |
| Cable               | MegaPhase           | N-3m      | 14852      | 29/10/2018 | 29/12/2020 |
| Cable               | SUCOFLEX            | N-6,5m    | 14380      | 25/07/2019 | 25/09/2021 |
| Cable               | MegaPhase           | N-8m      | 15813      | 12/11/2018 | 12/01/2021 |
| Receiver            | Rohde & Schwarz     | FPL1003   | 16027      | 14/08/2020 | 14/10/2021 |
| Shielded enclosure  | COMTEST             | SAC 3m    | 14494      | 02/10/2019 | 02/12/2022 |
| Software            | Nexio               |           | 0000       |            |            |
| Thermohygrometer    | Testo               | 608-H1    | 7561       | 25/01/2019 | 25/03/2021 |
| Thermohygrometer    | Bioblock Scientific | Météostar | 0963       | 25/01/2019 | 25/03/2021 |

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

| TRANSMITTER RADIATED SPURIOUS EMISSIONS AT FREQUENCIES <30MHz - TABULATED RESULTS                                                        |                                       |                                  |                    |                    |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------|--------------------|--------------------|
| Tx MODE / LOW CHANNEL - ALL POSITIONS (OATS)                                                                                             |                                       |                                  |                    |                    |
| Frequency (kHz)                                                                                                                          | Preliminary measurement (Pk) (dBμA/m) | Final measurement (Avg) (dBμA/m) | Limit Avg (dBμA/m) | Margin (Avg-Limit) |
| 12.322                                                                                                                                   | 55.64                                 | 26.09                            | 53.60              | -27.51             |
| 20.533                                                                                                                                   | 35.33                                 | 15.57                            | 48.74              | -33.17             |
| 36.973                                                                                                                                   | 34.79                                 | 7.20                             | 43.82              | -36.62             |
| 45.201                                                                                                                                   | 36.12                                 | 4.35                             | 40.70              | -36.35             |
| 61.623                                                                                                                                   | 23.62                                 | -3.13                            | 38.29              | -41.42             |
| 69.852                                                                                                                                   | 26.04                                 | -2.45                            | 34.93              | -37.38             |
| 78.063                                                                                                                                   | 24.93                                 | -8.03                            | 49.33              | -57.36             |
| 86.291                                                                                                                                   | 20.50                                 | -8.82                            | 36.47              | -45.29             |
| 102.730                                                                                                                                  | 17.23                                 | -8.70                            | 34.96              | -43.66             |
| Supplementary information:<br>Spurious which has more than 45 dB of margin compared to the applicable limit is not necessarily reported. |                                       |                                  |                    |                    |

| TRANSMITTER RADIATED SPURIOUS EMISSIONS AT FREQUENCIES <30MHz - TABULATED RESULTS                                                                                                         |                                       |                                  |                    |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------|--------------------|---------------------|
| Tx MODE / HIGH CHANNEL - ALL POSITIONS (OATS)                                                                                                                                             |                                       |                                  |                    |                     |
| Frequency (kHz)                                                                                                                                                                           | Preliminary measurement (Pk) (dBμA/m) | Final measurement (Avg) (dBμA/m) | Limit Avg (dBμA/m) | Marging (Avg-Limit) |
| 45.201                                                                                                                                                                                    | 51.71                                 | 25.19                            | 42.08              | -16.89              |
| 45.201                                                                                                                                                                                    | -32.23                                | 27.71                            | 42.08              | -14.37              |
| 135.592                                                                                                                                                                                   | -32.31                                | 7.20                             | 32.54              | -25.34              |
| 225.961                                                                                                                                                                                   | -32.32                                | 0.80                             | 28.11              | -27.31              |
| 316.347                                                                                                                                                                                   | -32.39                                | -3.10                            | 25.19              | -28.29              |
| 406.733                                                                                                                                                                                   | -32.38                                | -4.40                            | 23.00              | -27.40              |
| Supplementary information:<br>Spurious which has more than 30 dB of margin compared to the applicable limit is not necessarily reported.<br>The frequency 45.201 kHz is the utile signal. |                                       |                                  |                    |                     |

TEST SETUP PHOTO(S) - Tx MODE - POSITION 1



TEST SETUP PHOTO(S) - Tx MODE - POSITION 2



TEST SETUP PHOTO(S) - Tx MODE - POSITION 3



TEST SETUP PHOTO(S) – Tx MODE



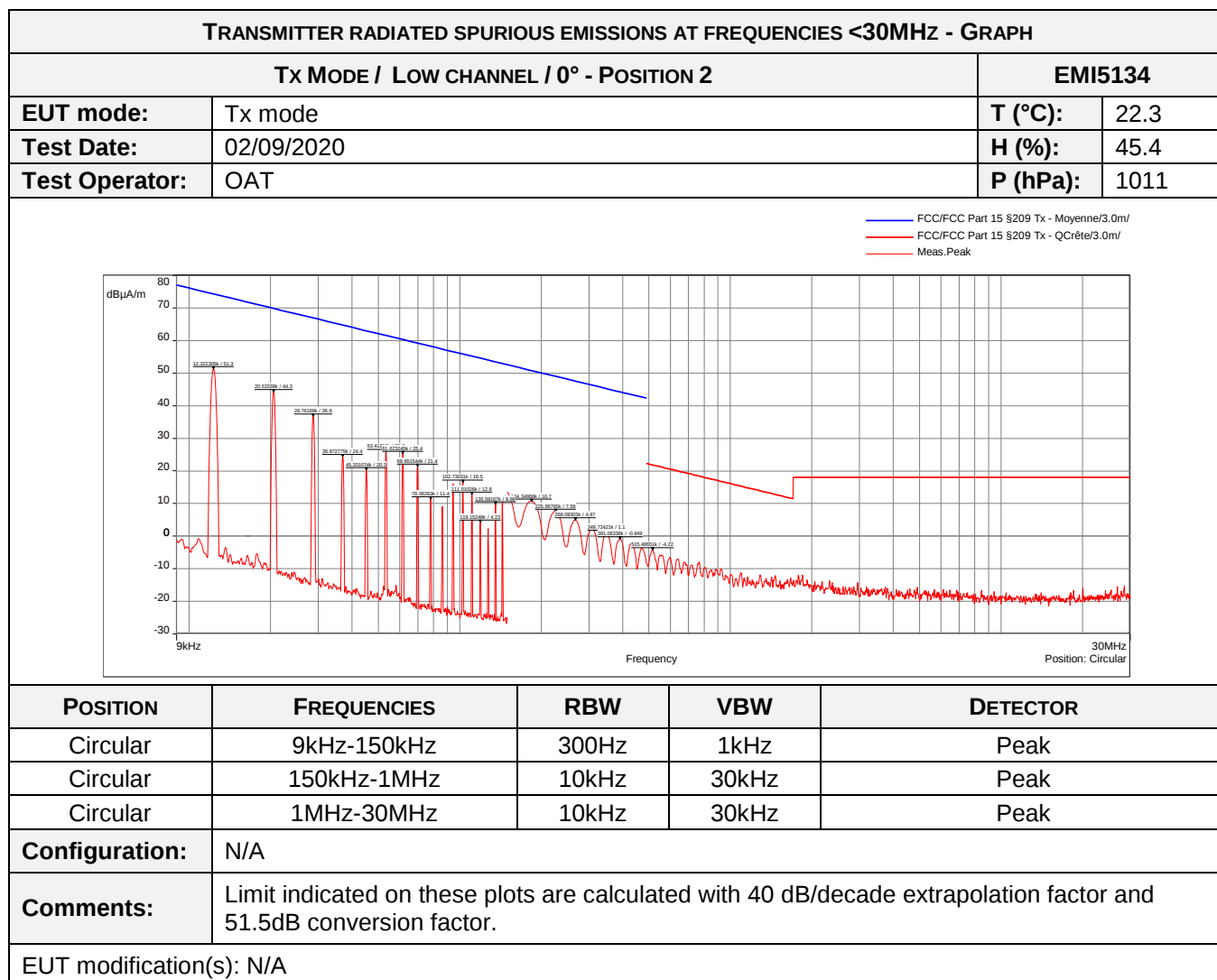
TEST SETUP PHOTO(S) - (OATS) - For FINAL MEASUREMENT

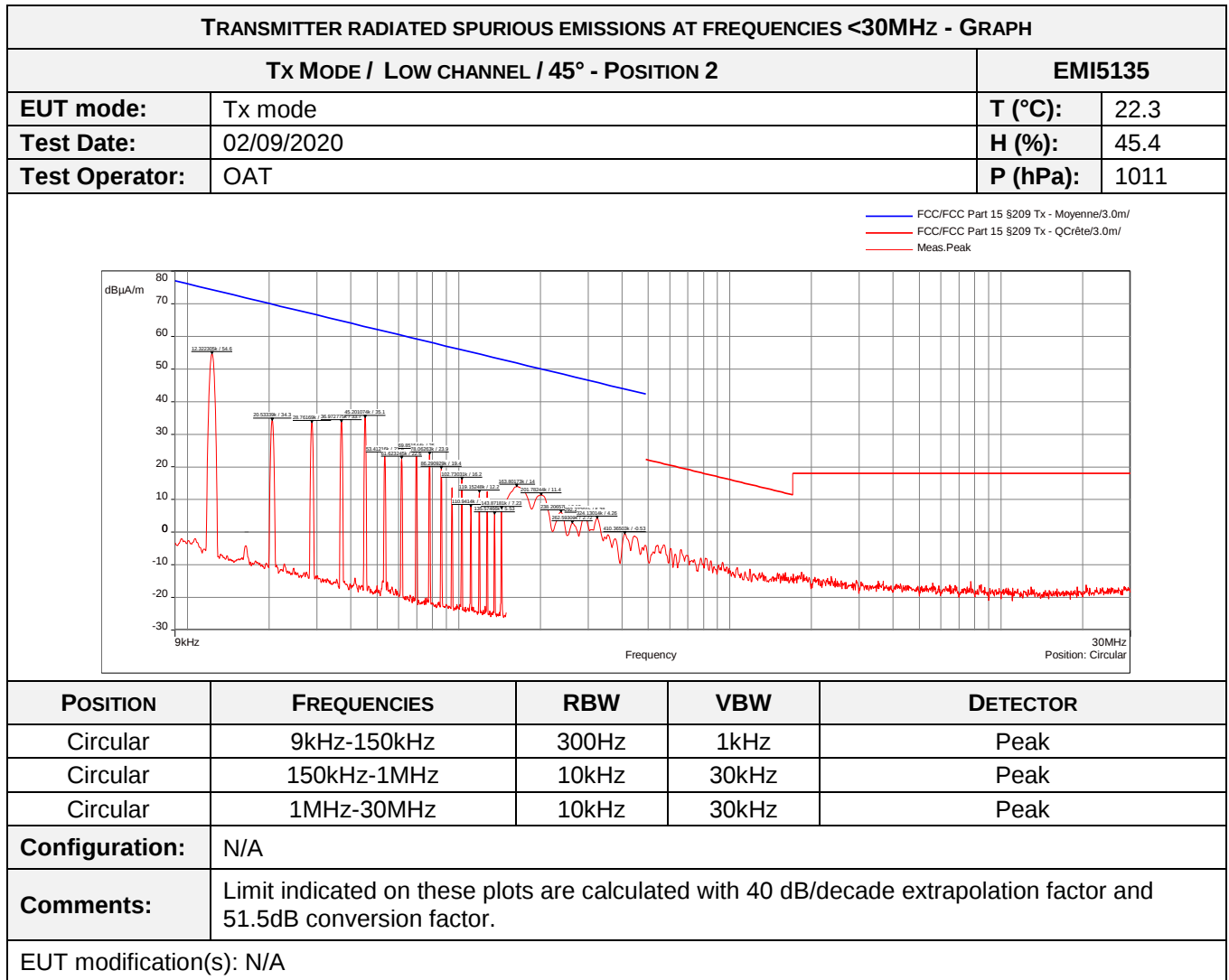


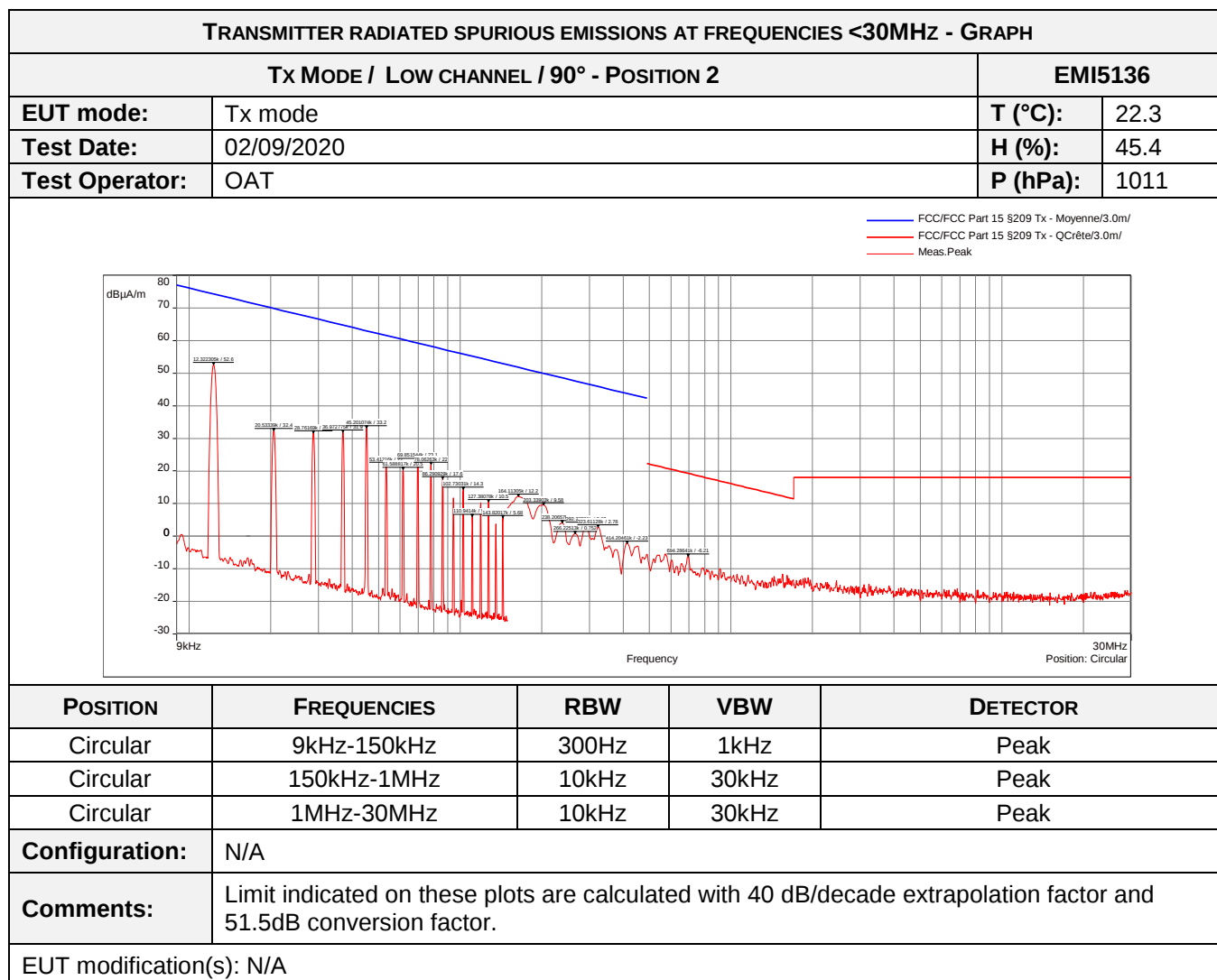
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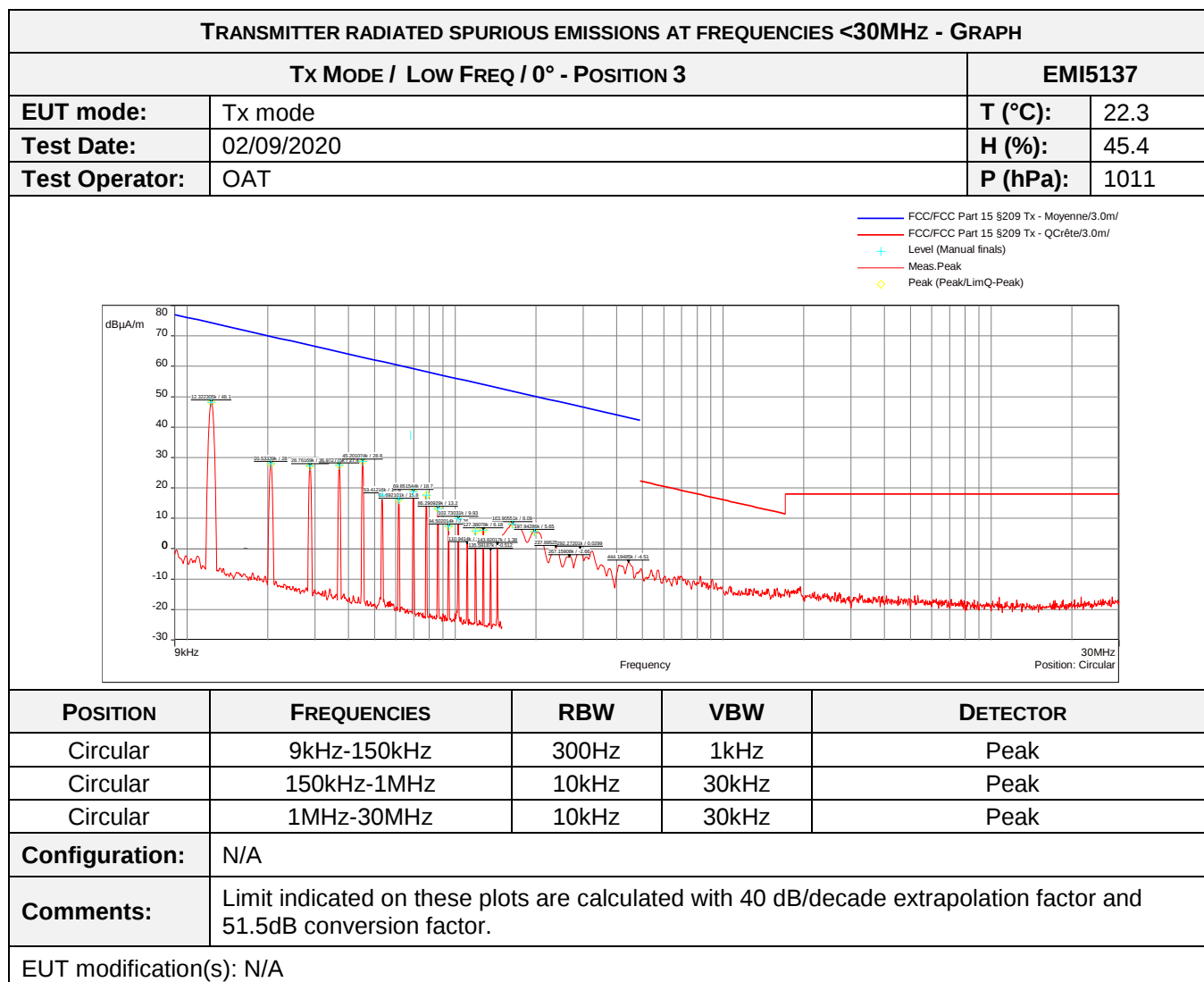
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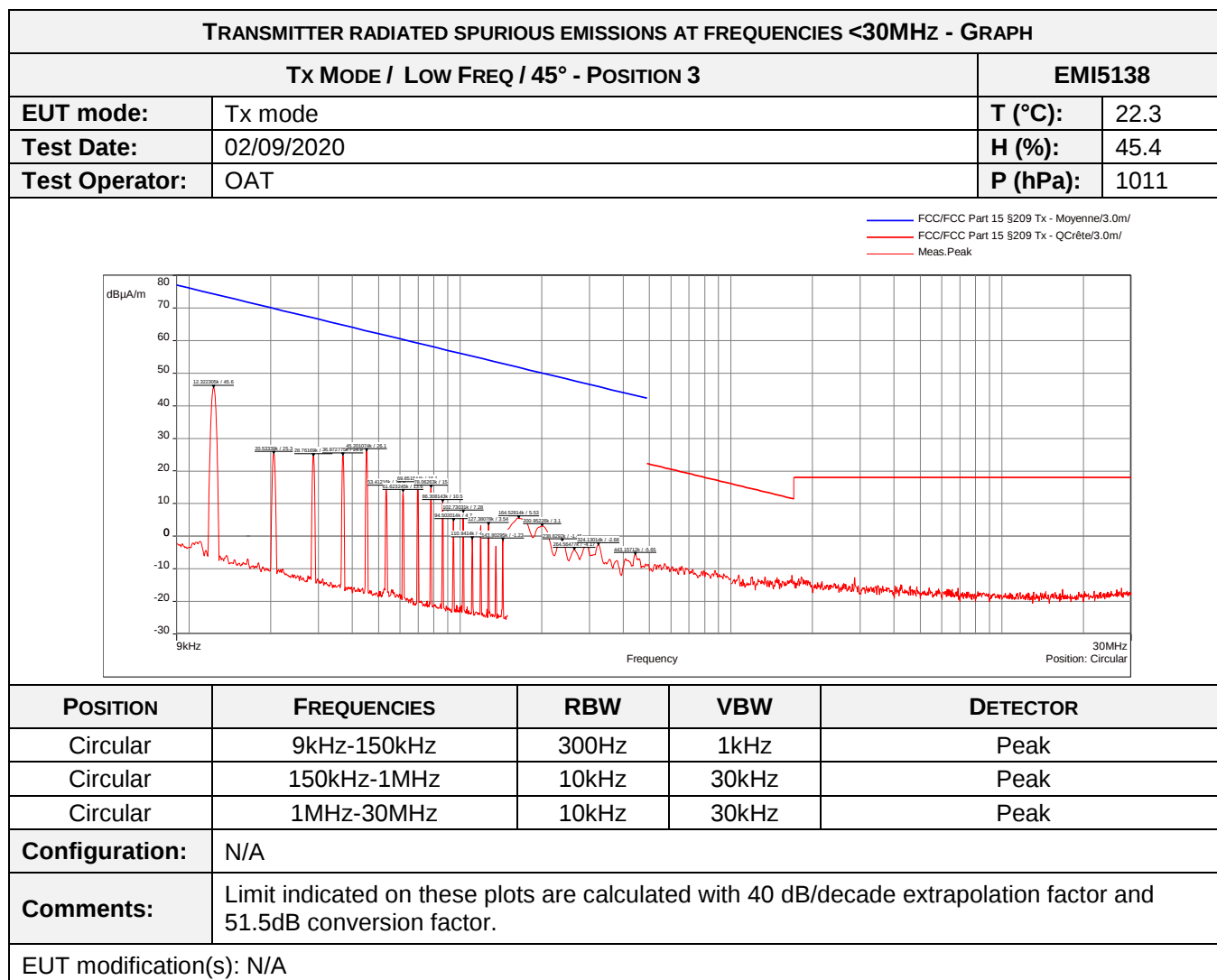
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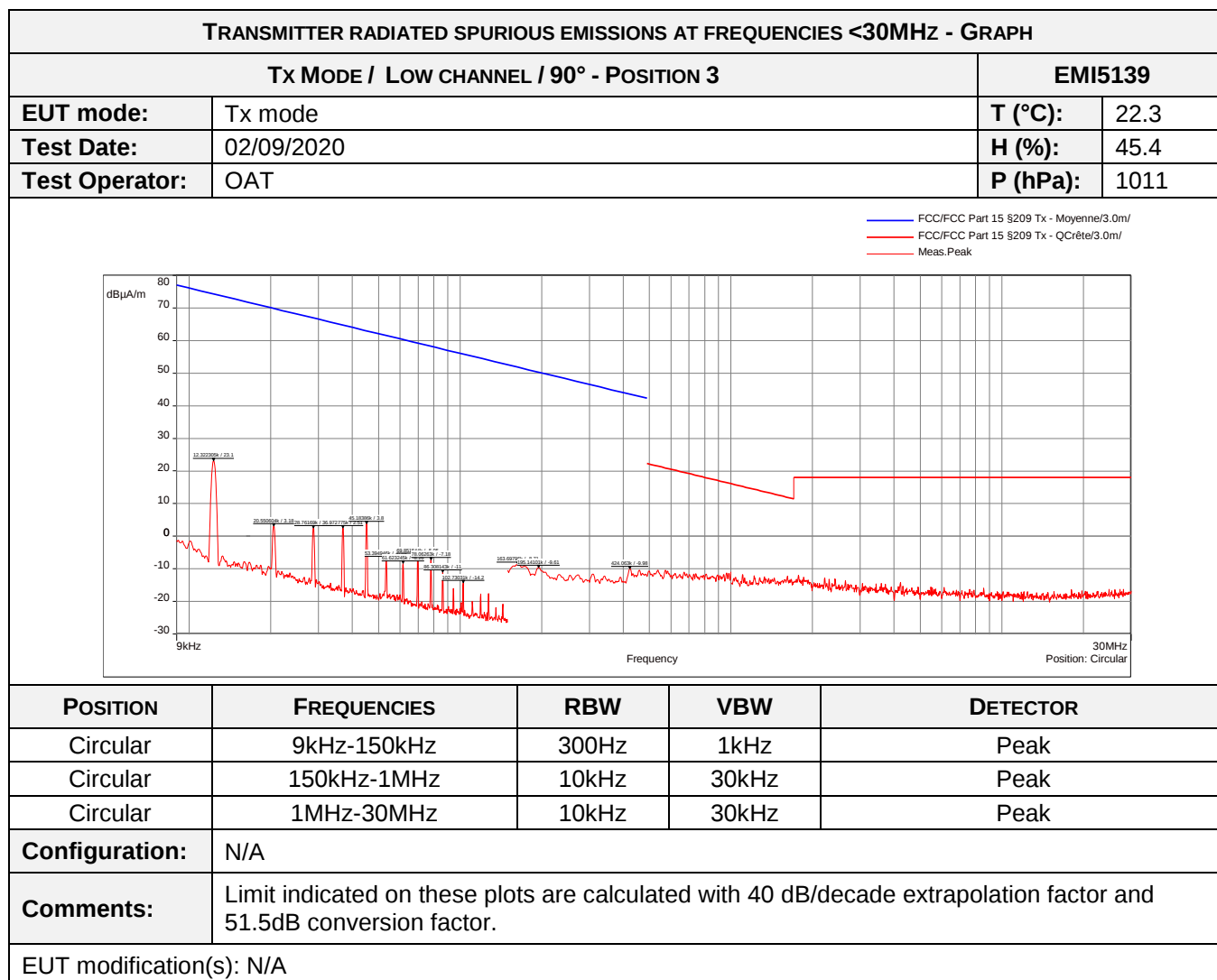




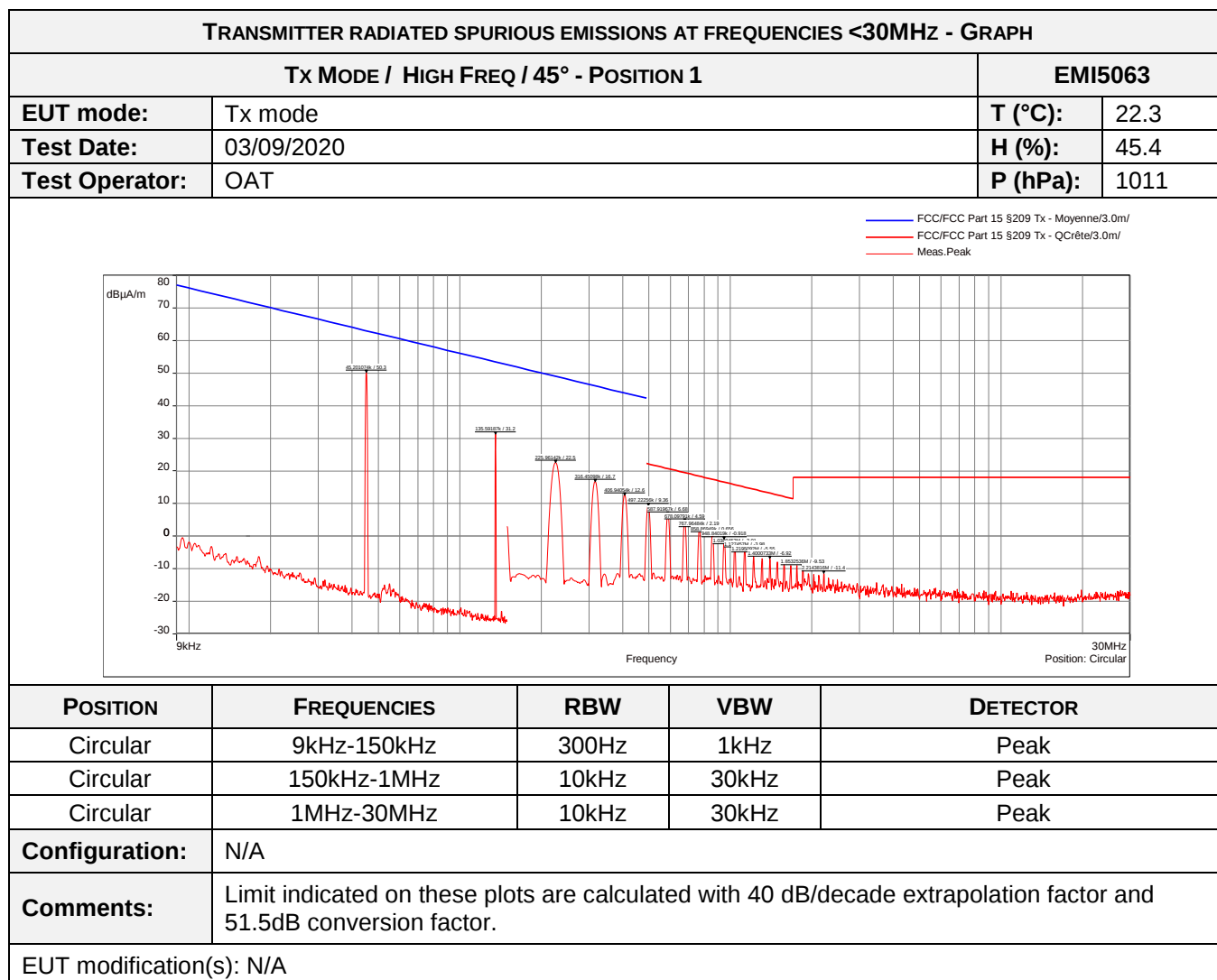


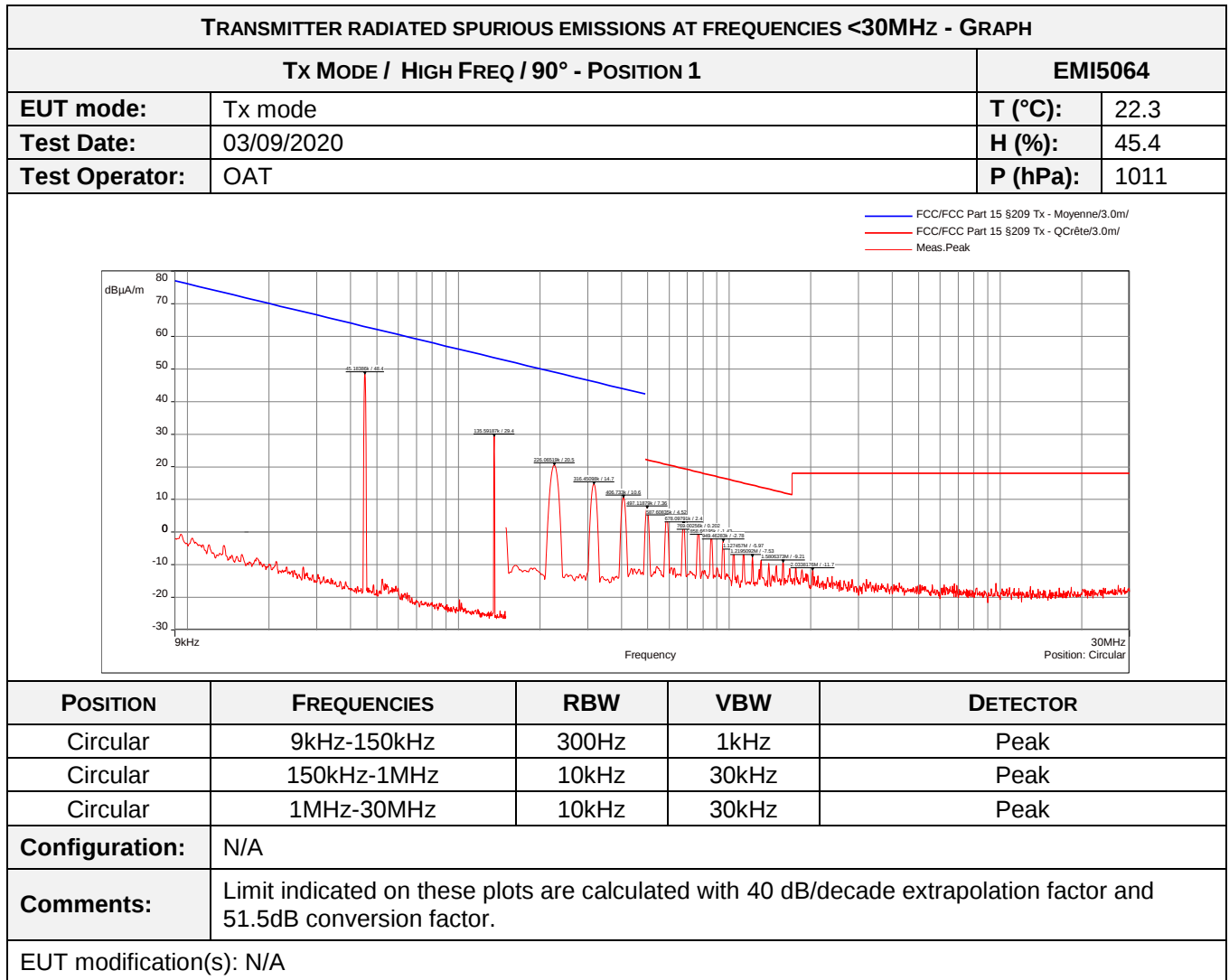


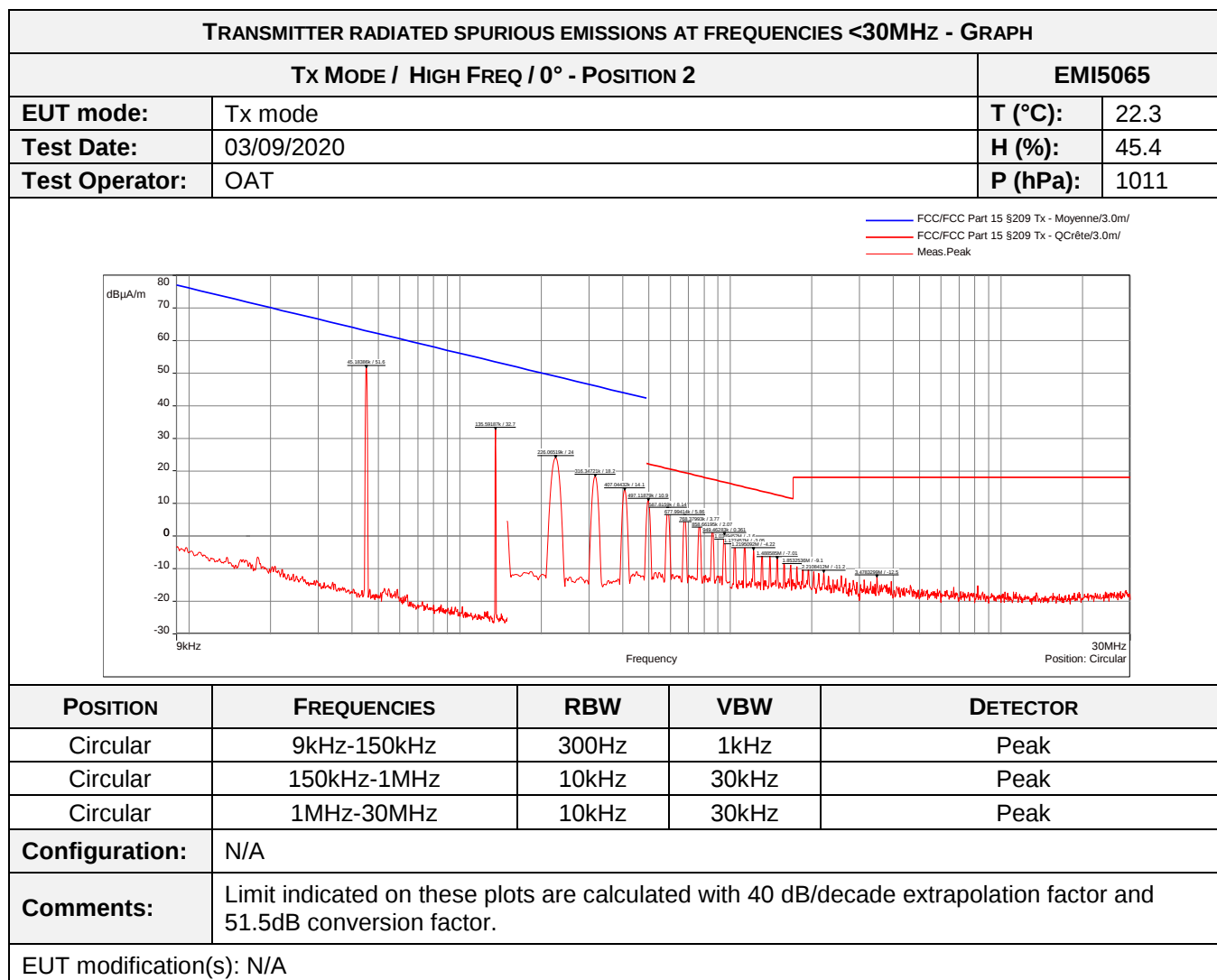


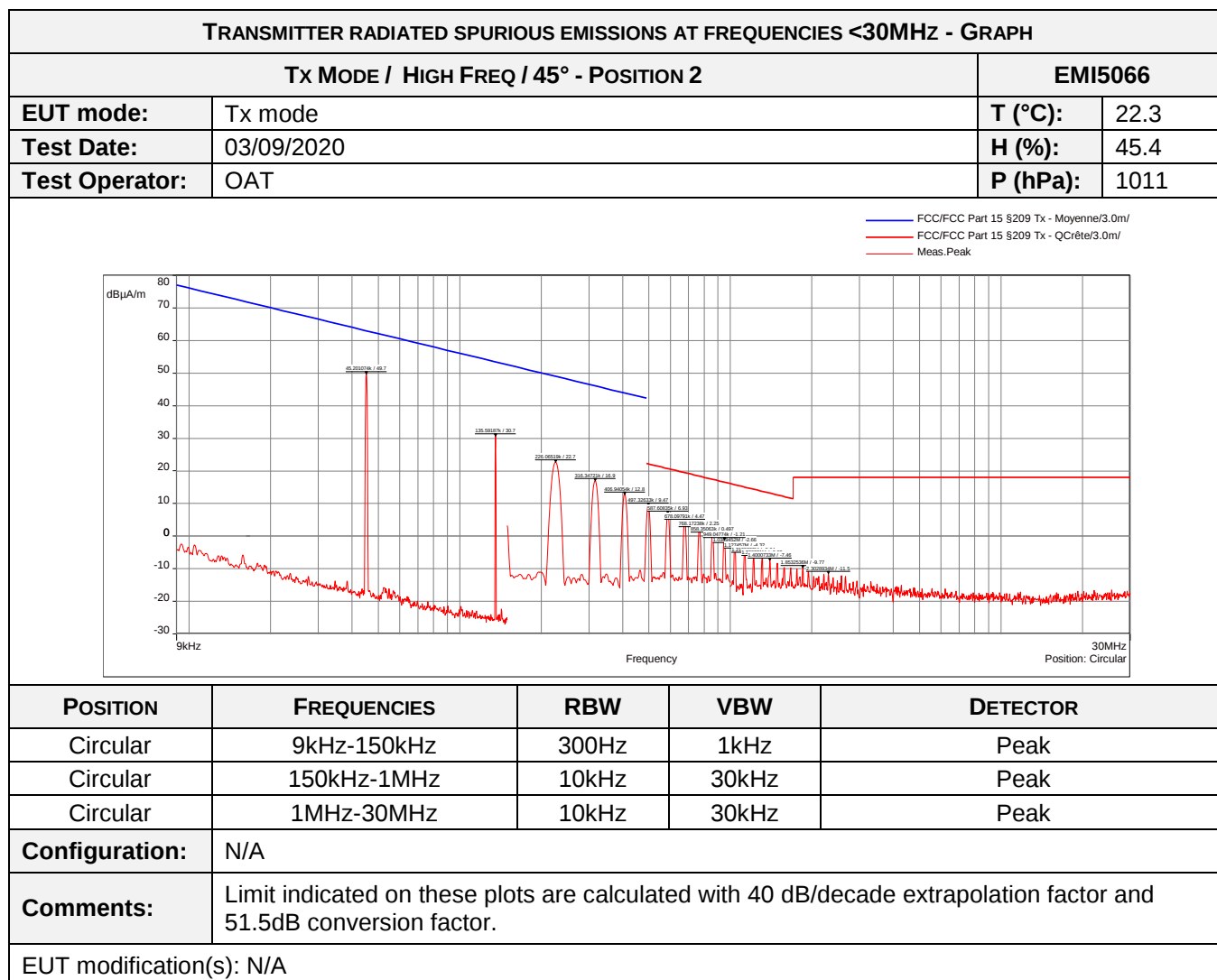


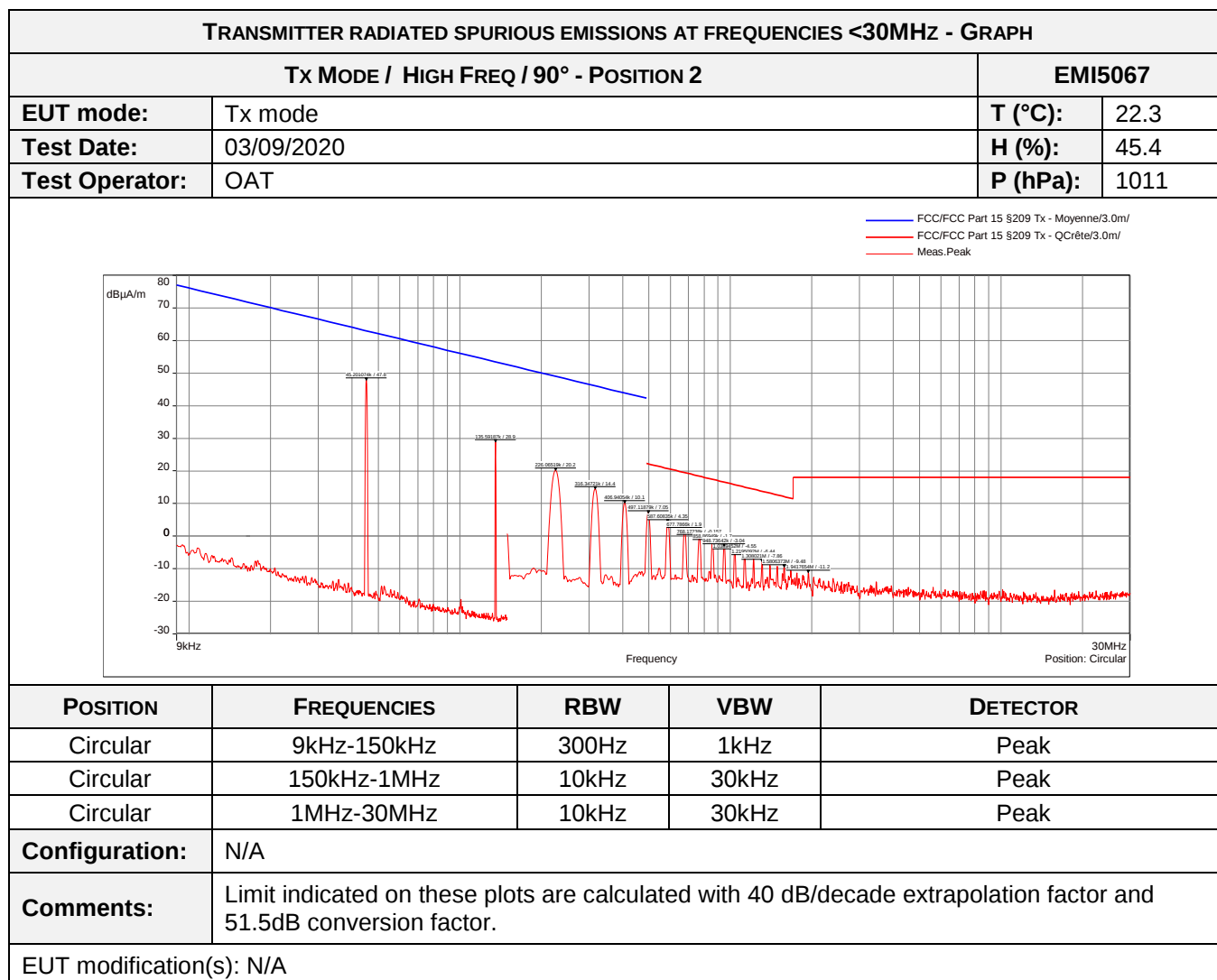
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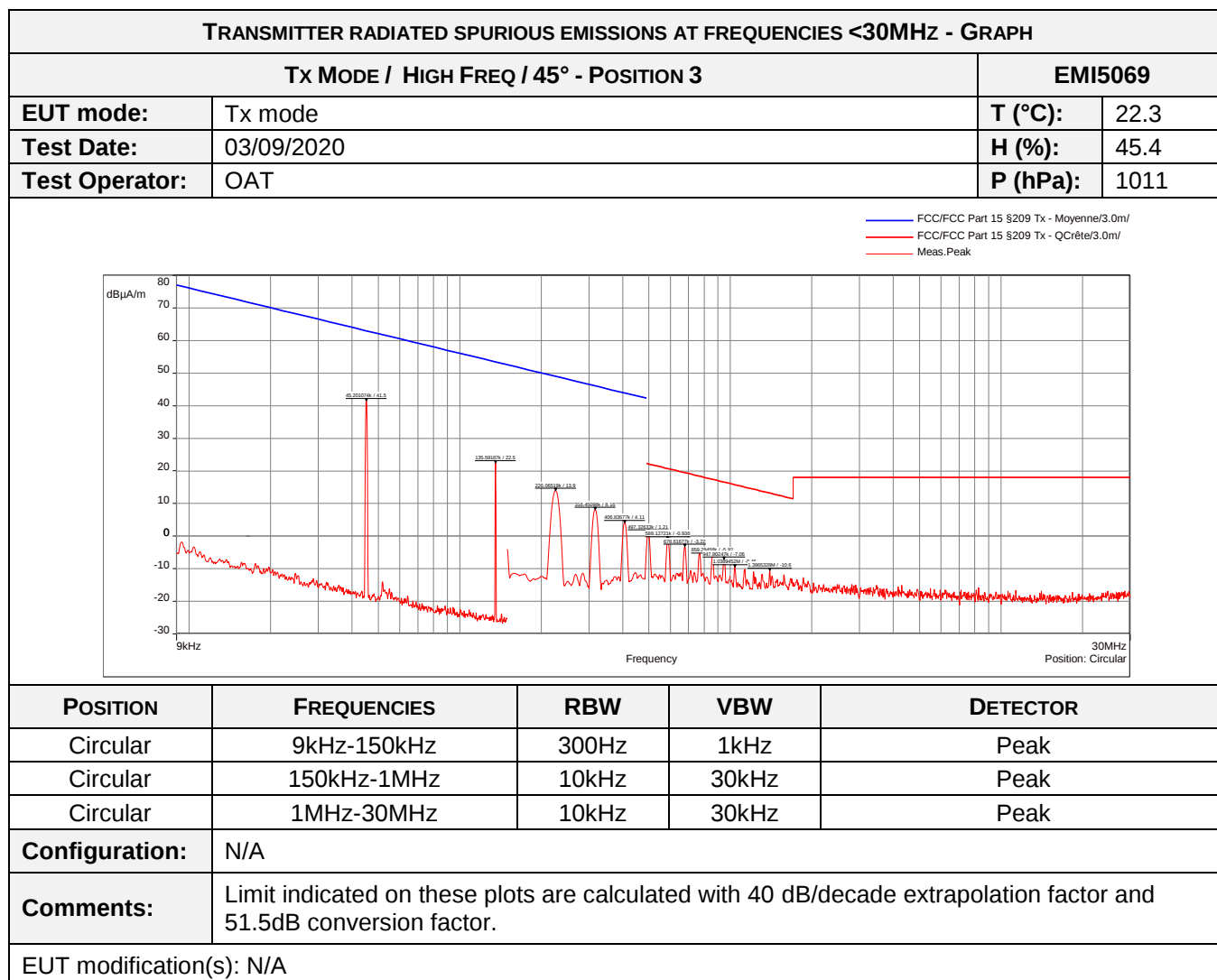


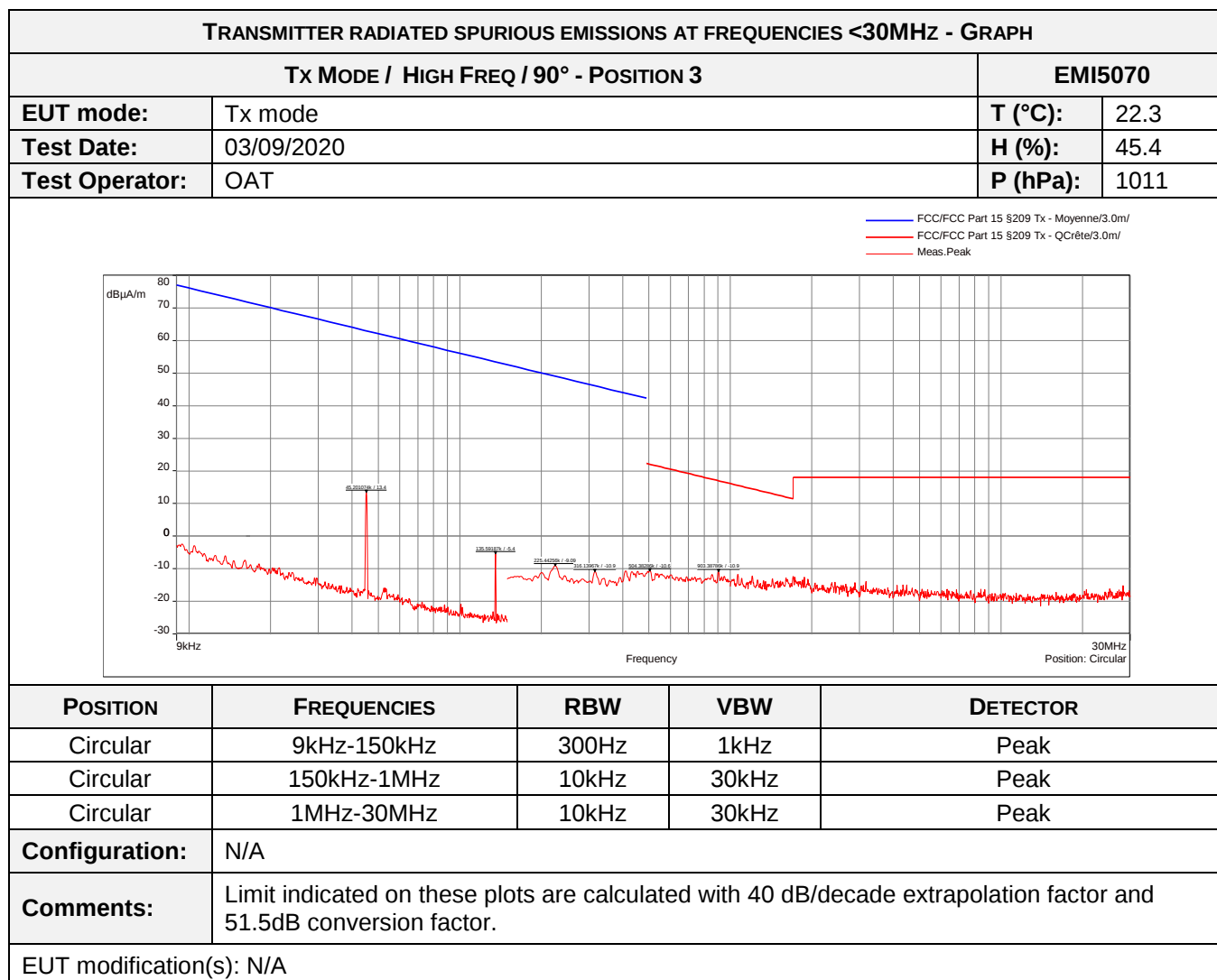






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## 8.8. Transmitter radiated spurious emissions at frequencies >30MHz

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FCC part 15 Radio part 15.209 & CNR-Gen          |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FCC part 15.109, 15.209, 15.205, 15.215, CNR-Gen |
| <p><b>General test setup:</b> EUT is set on an insulating support at 80cm above the ground reference plane.</p> <p>Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities.</p> <p>Final measurements (quasi-peak or average) were then performed in a semi-anechoic chamber or Open Area Test Site that complies to CISPR 16. The EUT was rotated 360° about its azimuth and adjusting the receive antenna height from 1 to 4 m.</p> <p>All frequencies were investigated, where applicable.</p> <p>For portable equipments a research of maximum level is done on the 3 axes. Only the highest levels are recorded.</p> |                                                  |

| TESTED CONFIGURATION                                                 | PARAMETER     | SEVERITY | RESULT TAB. | VERDICT |
|----------------------------------------------------------------------|---------------|----------|-------------|---------|
| Tx mode / All Freq - All Positions                                   | 30MHz-1GHz    | 15.209   | EMI5120     | PASS    |
| Charging + Tx mode / All Positions / All Freq                        | 30MHz-1GHz    | 15.209   | EMI6984     | PASS    |
| Tx mode / All Positions / Low channel / 1GHz to 18GHz                | 1GHz-18GHz    | 15.209   | EMI6749     | PASS    |
| Tx mode / All Positions / Mid channel / 1GHz to 18GHz                | 1GHz-18GHz    | 15.209   | EMI6750     | PASS    |
| Tx mode / All Positions / High channel / 1GHz to 18GHz               | 1GHz-18GHz    | 15.209   | EMI6751     | PASS    |
| Charging + Tx mode / All Positions / Low channel / 1GHz to 18GHz     | 1GHz-18GHz    | 15.209   | EMI7039     | PASS    |
| Charging + Tx mode / All Positions / Mid channel / 1GHz to 18GHz     | 1GHz-18GHz    | 15.209   | EMI7040     | PASS    |
| Charging + Tx mode / All Positions / High channel / 1GHz to 18GHz    | 1GHz-18GHz    | 15.209   | EMI7041     | PASS    |
| Tx mode / All Positions / Low channel / 18GHz to 26.5GHz             | 18GHz-26.5GHz | 15.209   | EMI6772     | PASS    |
| Tx mode / All Positions / Mid channel / 18GHz to 26.5GHz             | 18GHz-26.5GHz | 15.209   | EMI6775     | PASS    |
| Tx mode / All Positions / High channel / 18GHz to 26.5GHz            | 18GHz-26.5GHz | 15.209   | EMI6776     | PASS    |
| Charging + Tx mode / All Positions / Low channel / 18GHz to 26.5GHz  | 18GHz-26.5GHz | 15.209   | EMI7274     | PASS    |
| Charging + Tx mode / All Positions / Mid channel / 18GHz to 26.5GHz  | 18GHz-26.5GHz | 15.209   | EMI7275     | PASS    |
| Charging + Tx mode / All Positions / High channel / 18GHz to 26.5GHz | 18GHz-26.5GHz | 15.209   | EMI7276     | PASS    |

| LABORATORY PARAMETERS:            | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|-----------------------------------|----------------------------|-----------------|
| Ambient Temperature               | 15 to 35 °C                | See Graph(s)    |
| Relative Humidity                 | 20 to 75 %                 | See Graph(s)    |
| Atmospheric pressure              | N/A                        | See Graph(s)    |
| <b>Test method deviation:</b> N/A |                            |                 |
| Supplementary information: N/A    |                            |                 |

| TEST EQUIPMENT USED |                        |                                                   |            |            |            |
|---------------------|------------------------|---------------------------------------------------|------------|------------|------------|
| CATEGORY            | BRAND                  | TYPE                                              | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | ETS-Lindgren           | 3117                                              | 5456       | 24/07/2019 | 24/09/2022 |
| Antenna             | ETS lindgren           | 3160-09                                           | 14690      | 26/09/2017 | 26/05/2021 |
| Antenna             | Electro Metrics        | BIA-30HF                                          | 0824       | 13/06/2018 | 13/08/2021 |
| Antenna             | Rohde & Schwarz        | HL223                                             | 3126       | 13/06/2018 | 13/08/2021 |
| Cable               | MegaPhase              | F135N1N28                                         | 16664      | 25/10/2019 | 25/12/2021 |
| Cable               | MegaPhase              | F135N1N28                                         | 16666      | 25/10/2019 | 25/12/2021 |
| Cable               | JYE BAO                | K30K30-5003-40G1                                  | 14887      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner         | K-5m                                              | 14460      | 25/06/2019 | 25/08/2021 |
| Cable               | C&C                    | N-1.5m                                            | 10554      | 20/12/2019 | 20/02/2022 |
| Cable               | /                      | N-1m                                              | 3625       | 27/01/2021 | 27/03/2023 |
| Cable               | /                      | N-1m                                              | 3626       | 27/01/2021 | 27/03/2023 |
| Cable               | SUCOFLEX               | N-3m                                              | 14379      | 25/06/2019 | 25/08/2021 |
| Cable               | MegaPhase              | N-3m                                              | 14852      | 29/10/2018 | 29/12/2020 |
| Cable               | MegaPhase              | N-3m                                              | 14852      | 30/10/2018 | 30/06/2021 |
| Cable               | SUCOFLEX               | N-5,5m                                            | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX               | N-6,5m                                            | 14380      | 25/07/2019 | 25/09/2021 |
| Cable               | MegaPhase              | N-8m                                              | 15813      | 12/11/2018 | 12/01/2021 |
| Cable               | MegaPhase              | N-8m                                              | 15813      | 14/01/2021 | 14/03/2023 |
| Cable               | Huber + Suhner         | SF102K                                            | 16041      | 28/02/2019 | 28/04/2021 |
| Cable               | MegaPhase              | TM18-N1N1-118                                     | 12841      | 14/08/2020 | 14/10/2022 |
| Cable               | MegaPhase              | TM18-N1N1-118                                     | 12842      | 02/12/2020 | 02/02/2023 |
| Filter              | Micro-Tronics          | HPM 15162                                         | 10273      | 12/01/2019 | 12/03/2022 |
| Filter              | Micro-Tronics          | HPM18865                                          | 12843      | 09/06/2018 | 09/08/2021 |
| Filter              | Wainwright Instruments | WRCGV<br>2402/2480-<br>2380/2500-<br>40/10EE-200W | 9771       | 08/01/2019 | 08/03/2022 |
| Preamplifier        | Techniwave             | APS16-0087                                        | 14040      | 02/12/2020 | 02/02/2022 |
| Preamplifier        | Wright Technologie     | ASL40-B3015                                       | 14851      | 12/08/2020 | 12/10/2021 |
| Preamplifier        | IMPULSE                | CA118-546ACN                                      | 9169       | 13/01/2021 | 13/03/2022 |
| Preamplifier        | Mini-circuit           | ZFL-1000LN                                        | 1321       | 25/06/2019 | 25/02/2021 |
| Receiver            | Agilent Technologies   | E4440A                                            | 5824       | 22/10/2020 | 22/12/2022 |
| Receiver            | Rohde & Schwarz        | ESI                                               | 9704       | 03/03/2020 | 03/05/2021 |
| Receiver            | Rohde & Schwarz        | FPL1003                                           | 16027      | 14/08/2020 | 14/10/2021 |
| Receiver            | Rohde & Schwarz        | FSW43                                             | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF              | C.V2                                              | 1423       | 04/10/2019 | 04/12/2022 |
| Shielded enclosure  | COMTEST                | SAC 3m                                            | 14494      | 02/10/2019 | 02/12/2022 |
| Software            | Nexio                  |                                                   | 0000       |            |            |
| Thermohygrometer    | Testo                  | 608-H1                                            | 7562       | 25/01/2019 | 25/03/2021 |
| Thermohygrometer    | Testo                  | 608-H2                                            | 12269      | 07/05/2020 | 07/07/2022 |
| Thermohygrometer    | Bioblock Scientific    | Météostar                                         | 0963       | 25/01/2019 | 25/03/2021 |

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

| TRANSMITTER RADIATED SPURIOUS EMISSIONS AT FREQUENCIES >30MHz- TABULATED RESULTS |              |                      |                          |                 |              |
|----------------------------------------------------------------------------------|--------------|----------------------|--------------------------|-----------------|--------------|
| CHARGING + TX MODE / ALL POSITIONS / ALL CHANNELS                                |              |                      |                          | EMI6984         |              |
| Frequency<br>MHz                                                                 | Polarization | Level peak<br>dBμV/m | Level<br>Qpeak<br>dBμV/m | Limit<br>dBμV/m | Margin<br>dB |
| 37.617                                                                           | Verticale    | 35.28                | 27.33                    | 40              | -12.670      |
| 37.770                                                                           | Verticale    | 34.23                | 26.91                    | 40              | -13.090      |
| 37.991                                                                           | Verticale    | 33.16                | 25.49                    | 40              | -14.510      |
| 38.280                                                                           | Verticale    | 32.49                | 25.14                    | 40              | -14.860      |
| 38.484                                                                           | Verticale    | 33.33                | 25.87                    | 40              | -14.130      |
| 38.722                                                                           | Verticale    | 34.46                | 26.39                    | 40              | -13.610      |
| 39.011                                                                           | Verticale    | 34.68                | 26.23                    | 40              | -13.770      |
| 39.096                                                                           | Verticale    | 36.14                | 26.40                    | 40              | -13.600      |
| 39.334                                                                           | Verticale    | 35.76                | 27.08                    | 40              | -12.920      |
| 39.589                                                                           | Verticale    | 36.35                | 28.12                    | 40              | -11.880      |
| 39.793                                                                           | Verticale    | 36.63                | 28.64                    | 40              | -11.360      |
| 40.065                                                                           | Verticale    | 37.06                | 29.26                    | 40              | -10.740      |
| 40.371                                                                           | Verticale    | 38.46                | 30.48                    | 40              | -9.520       |
| 40.660                                                                           | Verticale    | 39.52                | 31.75                    | 40              | -8.250       |
| 40.830                                                                           | Verticale    | 40.73                | 32.30                    | 40              | -7.700       |
| 40.915                                                                           | Verticale    | 40.42                | 32.73                    | 40              | -7.270       |
| 41.068                                                                           | Verticale    | 40.83                | 33.20                    | 40              | -6.800       |
| 41.221                                                                           | Verticale    | 41.64                | 33.96                    | 40              | -6.040       |
| 41.459                                                                           | Verticale    | 43.26                | 35.26                    | 40              | -4.740       |
| 41.714                                                                           | Verticale    | 44.34                | 36.65                    | 40              | -3.350       |
| 41.901                                                                           | Verticale    | 44.79                | 37.19                    | 40              | -2.810       |
| 42.139                                                                           | Verticale    | 44.84                | 37.38                    | 40              | -2.620       |
| 42.326                                                                           | Verticale    | 44.75                | 37.12                    | 40              | -2.880       |
| 42.513                                                                           | Verticale    | 43.88                | 36.73                    | 40              | -3.270       |
| 42.683                                                                           | Verticale    | 42.41                | 35.83                    | 40              | -4.170       |
| 42.938                                                                           | Verticale    | 40.93                | 34.99                    | 40              | -5.010       |
| 43.227                                                                           | Verticale    | 42.29                | 36.34                    | 40              | -3.660       |
| 43.499                                                                           | Verticale    | 41.48                | 35.00                    | 40              | -5.000       |
| 43.737                                                                           | Verticale    | 40.49                | 34.23                    | 40              | -5.770       |
| 43.941                                                                           | Verticale    | 40.46                | 34.79                    | 40              | -5.210       |
| 44.111                                                                           | Verticale    | 41.22                | 35.14                    | 40              | -4.860       |
| 44.315                                                                           | Verticale    | 41.89                | 35.87                    | 40              | -4.130       |
| 44.723                                                                           | Verticale    | 41.96                | 35.46                    | 40              | -4.540       |
| 45.047                                                                           | Verticale    | 41.90                | 34.95                    | 40              | -5.050       |
| 45.336                                                                           | Verticale    | 41.06                | 33.95                    | 40              | -6.050       |
| 45.506                                                                           | Verticale    | 39.44                | 32.73                    | 40              | -7.270       |
| 45.693                                                                           | Verticale    | 39.20                | 31.85                    | 40              | -8.150       |
| 45.829                                                                           | Verticale    | 38.11                | 30.75                    | 40              | -9.250       |
| 46.067                                                                           | Verticale    | 36.40                | 29.51                    | 40              | -10.490      |
| 46.271                                                                           | Verticale    | 36.03                | 28.89                    | 40              | -11.110      |
| 68.815                                                                           | Verticale    | 31.85                | 27.45                    | 40              | -12.550      |
| 68.883                                                                           | Verticale    | 31.56                | 27.47                    | 40              | -12.530      |
| 68.968                                                                           | Verticale    | 31.88                | 27.47                    | 40              | -12.530      |
| 69.036                                                                           | Verticale    | 32.18                | 27.50                    | 40              | -12.500      |
| 69.087                                                                           | Verticale    | 31.73                | 27.50                    | 40              | -12.500      |

| TRANSMITTER RADIATED SPURIOUS EMISSIONS AT FREQUENCIES >30MHZ- TABULATED RESULTS |           |       |       |         |         |
|----------------------------------------------------------------------------------|-----------|-------|-------|---------|---------|
| CHARGING + TX MODE / ALL POSITIONS / ALL CHANNELS                                |           |       |       | EMI6984 |         |
| 69.155                                                                           | Verticale | 31.58 | 27.52 | 40      | -12.480 |
| 69.240                                                                           | Verticale | 31.62 | 27.56 | 40      | -12.440 |
| 69.308                                                                           | Verticale | 32.06 | 27.52 | 40      | -12.480 |
| 69.410                                                                           | Verticale | 31.66 | 27.53 | 40      | -12.470 |
| 69.512                                                                           | Verticale | 32.13 | 27.49 | 40      | -12.510 |
| 69.580                                                                           | Verticale | 31.49 | 27.47 | 40      | -12.530 |
| 69.631                                                                           | Verticale | 32.02 | 27.43 | 40      | -12.570 |
| 69.733                                                                           | Verticale | 31.41 | 27.37 | 40      | -12.630 |
| 69.852                                                                           | Verticale | 31.22 | 27.25 | 40      | -12.750 |
| 69.988                                                                           | Verticale | 31.70 | 27.21 | 40      | -12.790 |
| 70.039                                                                           | Verticale | 31.48 | 27.16 | 40      | -12.840 |
| 70.107                                                                           | Verticale | 31.22 | 27.15 | 40      | -12.850 |
| 70.192                                                                           | Verticale | 31.59 | 27.13 | 40      | -12.870 |
| 70.260                                                                           | Verticale | 31.17 | 27.14 | 40      | -12.860 |
| 70.362                                                                           | Verticale | 31.19 | 27.13 | 40      | -12.870 |
| 70.413                                                                           | Verticale | 31.67 | 27.16 | 40      | -12.840 |
| 70.447                                                                           | Verticale | 31.57 | 27.16 | 40      | -12.840 |
| 70.498                                                                           | Verticale | 31.49 | 27.17 | 40      | -12.830 |
| 70.600                                                                           | Verticale | 31.30 | 27.11 | 40      | -12.890 |
| 70.668                                                                           | Verticale | 31.14 | 27.08 | 40      | -12.920 |
| 70.770                                                                           | Verticale | 31.56 | 27.00 | 40      | -13.000 |
| 70.872                                                                           | Verticale | 31.03 | 26.89 | 40      | -13.110 |
| 70.991                                                                           | Verticale | 31.43 | 26.74 | 40      | -13.260 |
| 71.059                                                                           | Verticale | 30.93 | 26.62 | 40      | -13.380 |
| 183.338                                                                          | Verticale | 38.55 | 32.77 | 43.5    | -10.730 |
| 183.559                                                                          | Verticale | 38.66 | 32.64 | 43.5    | -10.860 |
| 183.712                                                                          | Verticale | 38.95 | 32.58 | 43.5    | -10.920 |
| 183.831                                                                          | Verticale | 38.25 | 32.57 | 43.5    | -10.930 |
| 184.001                                                                          | Verticale | 38.89 | 32.49 | 43.5    | -11.010 |
| 184.171                                                                          | Verticale | 39.03 | 32.34 | 43.5    | -11.160 |
| 184.307                                                                          | Verticale | 38.03 | 32.19 | 43.5    | -11.310 |
| 184.426                                                                          | Verticale | 38.09 | 32.17 | 43.5    | -11.330 |
| 184.613                                                                          | Verticale | 38.03 | 31.95 | 43.5    | -11.550 |
| 184.749                                                                          | Verticale | 38.25 | 31.89 | 43.5    | -11.610 |
| 184.919                                                                          | Verticale | 38.37 | 31.67 | 43.5    | -11.830 |
| 185.124                                                                          | Verticale | 37.57 | 31.44 | 43.5    | -12.060 |
| 185.294                                                                          | Verticale | 37.23 | 31.22 | 43.5    | -12.280 |
| 185.396                                                                          | Verticale | 37.31 | 31.13 | 43.5    | -12.370 |
| 185.566                                                                          | Verticale | 36.95 | 30.92 | 43.5    | -12.580 |
| 185.685                                                                          | Verticale | 37.78 | 30.75 | 43.5    | -12.750 |
| 185.889                                                                          | Verticale | 37.39 | 30.45 | 43.5    | -13.050 |
| 186.144                                                                          | Verticale | 36.58 | 30.23 | 43.5    | -13.270 |
| 186.263                                                                          | Verticale | 36.86 | 30.07 | 43.5    | -13.430 |
| 186.467                                                                          | Verticale | 36.24 | 29.75 | 43.5    | -13.750 |
| 186.705                                                                          | Verticale | 36.02 | 29.48 | 43.5    | -14.020 |
| 186.841                                                                          | Verticale | 36.13 | 29.34 | 43.5    | -14.160 |
| 187.130                                                                          | Verticale | 35.99 | 29.02 | 43.5    | -14.480 |
| 187.283                                                                          | Verticale | 35.79 | 28.87 | 43.5    | -14.630 |
| 187.453                                                                          | Verticale | 35.45 | 28.66 | 43.5    | -14.840 |

| TRANSMITTER RADIATED SPURIOUS EMISSIONS AT FREQUENCIES >30MHz- TABULATED RESULTS |             |       |       |         |         |
|----------------------------------------------------------------------------------|-------------|-------|-------|---------|---------|
| CHARGING + Tx MODE / ALL POSITIONS / ALL CHANNELS                                |             |       |       | EMI6984 |         |
| 187.572                                                                          | Verticale   | 35.56 | 28.47 | 43.5    | -15.030 |
| 187.810                                                                          | Verticale   | 34.68 | 28.31 | 43.5    | -15.190 |
| 188.065                                                                          | Verticale   | 34.59 | 28.15 | 43.5    | -15.350 |
| 188.354                                                                          | Verticale   | 34.70 | 28.02 | 43.5    | -15.480 |
| 188.558                                                                          | Verticale   | 35.33 | 27.92 | 43.5    | -15.580 |
| 188.745                                                                          | Verticale   | 34.67 | 27.44 | 43.5    | -16.060 |
| 188.932                                                                          | Verticale   | 34.52 | 27.62 | 43.5    | -15.880 |
| 153.041                                                                          | Horizontale | 32.97 | 23.92 | 43.5    | -19.580 |
| 153.313                                                                          | Horizontale | 33.48 | 24.11 | 43.5    | -19.390 |
| 153.432                                                                          | Horizontale | 33.94 | 24.18 | 43.5    | -19.320 |
| 153.891                                                                          | Horizontale | 34.50 | 24.73 | 43.5    | -18.770 |
| 154.214                                                                          | Horizontale | 35.17 | 25.41 | 43.5    | -18.090 |
| 154.554                                                                          | Horizontale | 36.38 | 26.22 | 43.5    | -17.280 |
| 154.724                                                                          | Horizontale | 36.82 | 26.75 | 43.5    | -16.750 |
| 154.996                                                                          | Horizontale | 36.99 | 27.55 | 43.5    | -15.950 |
| 155.235                                                                          | Horizontale | 37.60 | 28.12 | 43.5    | -15.380 |
| 155.524                                                                          | Horizontale | 38.35 | 28.92 | 43.5    | -14.580 |
| 155.762                                                                          | Horizontale | 38.77 | 29.44 | 43.5    | -14.060 |
| 156.119                                                                          | Horizontale | 38.84 | 30.23 | 43.5    | -13.270 |
| 156.340                                                                          | Horizontale | 39.65 | 30.75 | 43.5    | -12.750 |
| 157.071                                                                          | Horizontale | 39.38 | 31.59 | 43.5    | -11.910 |
| 157.343                                                                          | Horizontale | 38.99 | 31.76 | 43.5    | -11.740 |
| 157.819                                                                          | Horizontale | 38.74 | 31.91 | 43.5    | -11.590 |
| 158.108                                                                          | Horizontale | 38.66 | 31.88 | 43.5    | -11.620 |
| 158.346                                                                          | Horizontale | 38.60 | 31.94 | 43.5    | -11.560 |
| 158.584                                                                          | Horizontale | 37.67 | 31.95 | 43.5    | -11.550 |
| 158.856                                                                          | Horizontale | 38.05 | 31.88 | 43.5    | -11.620 |
| 159.366                                                                          | Horizontale | 37.92 | 31.82 | 43.5    | -11.680 |
| 159.825                                                                          | Horizontale | 37.26 | 31.72 | 43.5    | -11.780 |
| 160.148                                                                          | Horizontale | 36.76 | 31.48 | 43.5    | -12.020 |
| 160.403                                                                          | Horizontale | 36.64 | 31.45 | 43.5    | -12.050 |
| 160.692                                                                          | Horizontale | 36.62 | 31.19 | 43.5    | -12.310 |
| 160.862                                                                          | Horizontale | 36.78 | 31.02 | 43.5    | -12.480 |
| 161.219                                                                          | Horizontale | 36.27 | 30.68 | 43.5    | -12.820 |
| 161.627                                                                          | Horizontale | 36.20 | 30.35 | 43.5    | -13.150 |

Spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported

TEST SETUP PHOTO(S) – TX MODE / POSITION 1



TEST SETUP PHOTO(S) – TX MODE – POSITION 2



TEST SETUP PHOTO(S) – TX MODE – POSITION 3



TEST SETUP PHOTO(S) – CHARGING + TX MODE – POSITION 1



TEST SETUP PHOTO(S) - CHARGING + TX MODE – POSITION 2



TEST SETUP PHOTO(S) - CHARGING + TX MODE – POSITION 3



TEST SETUP PHOTO(S) – TX MODE – 30MHZ TO 200MHZ



TEST SETUP PHOTO(S) – TX MODE – 200MHZ TO 1GHZ

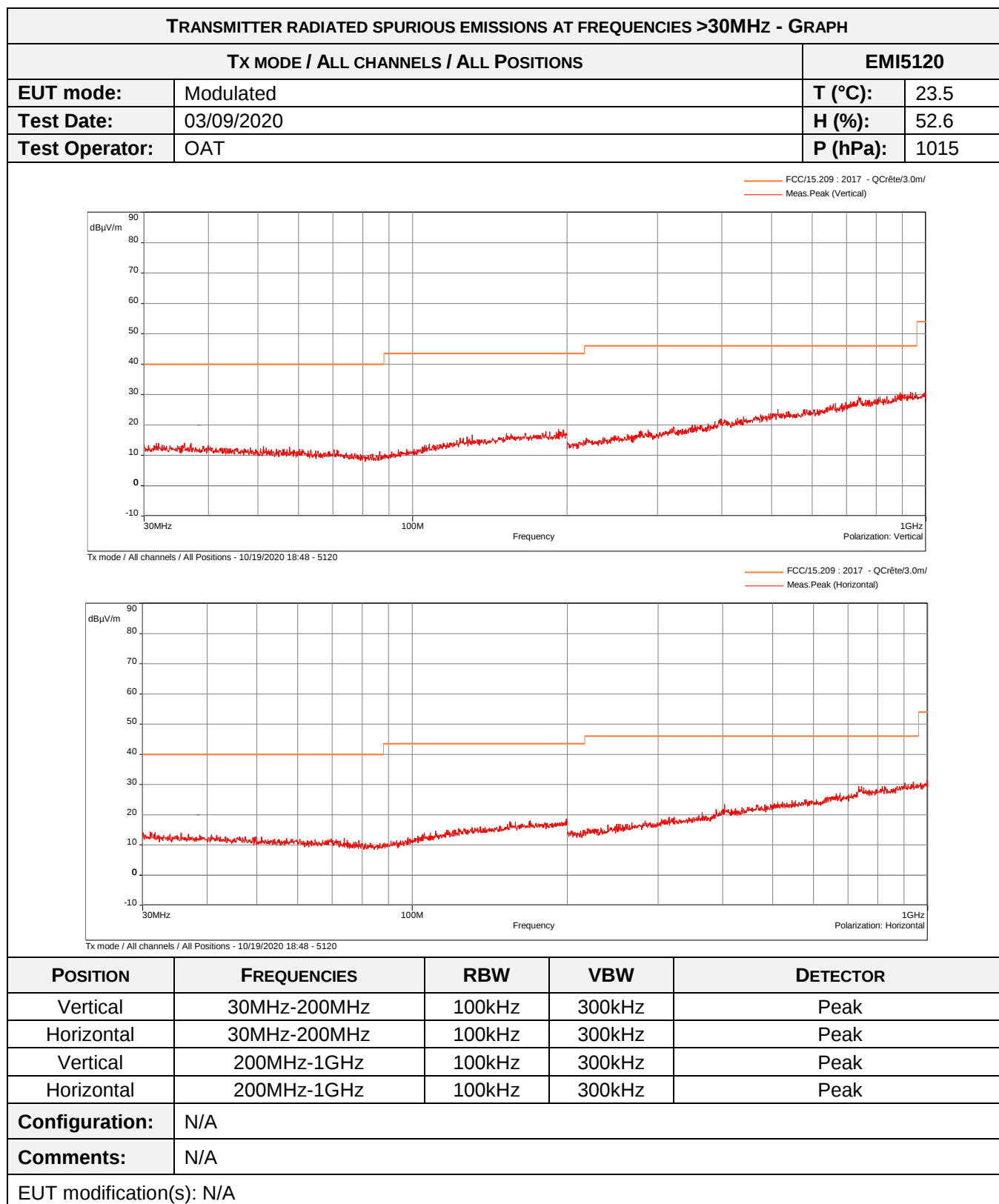


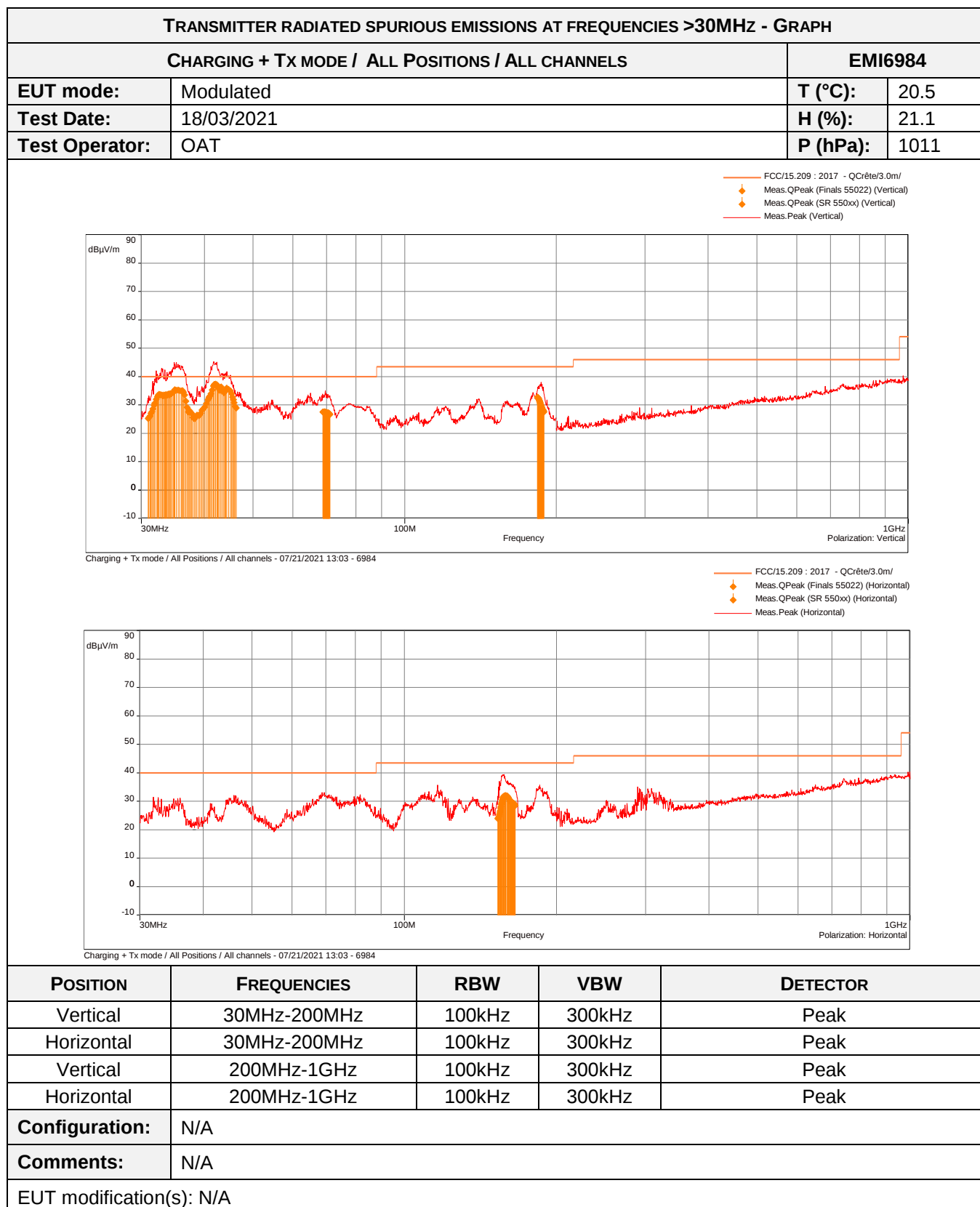
TEST SETUP PHOTO(S) – TX MODE – 1GHZ TO 18GHZ

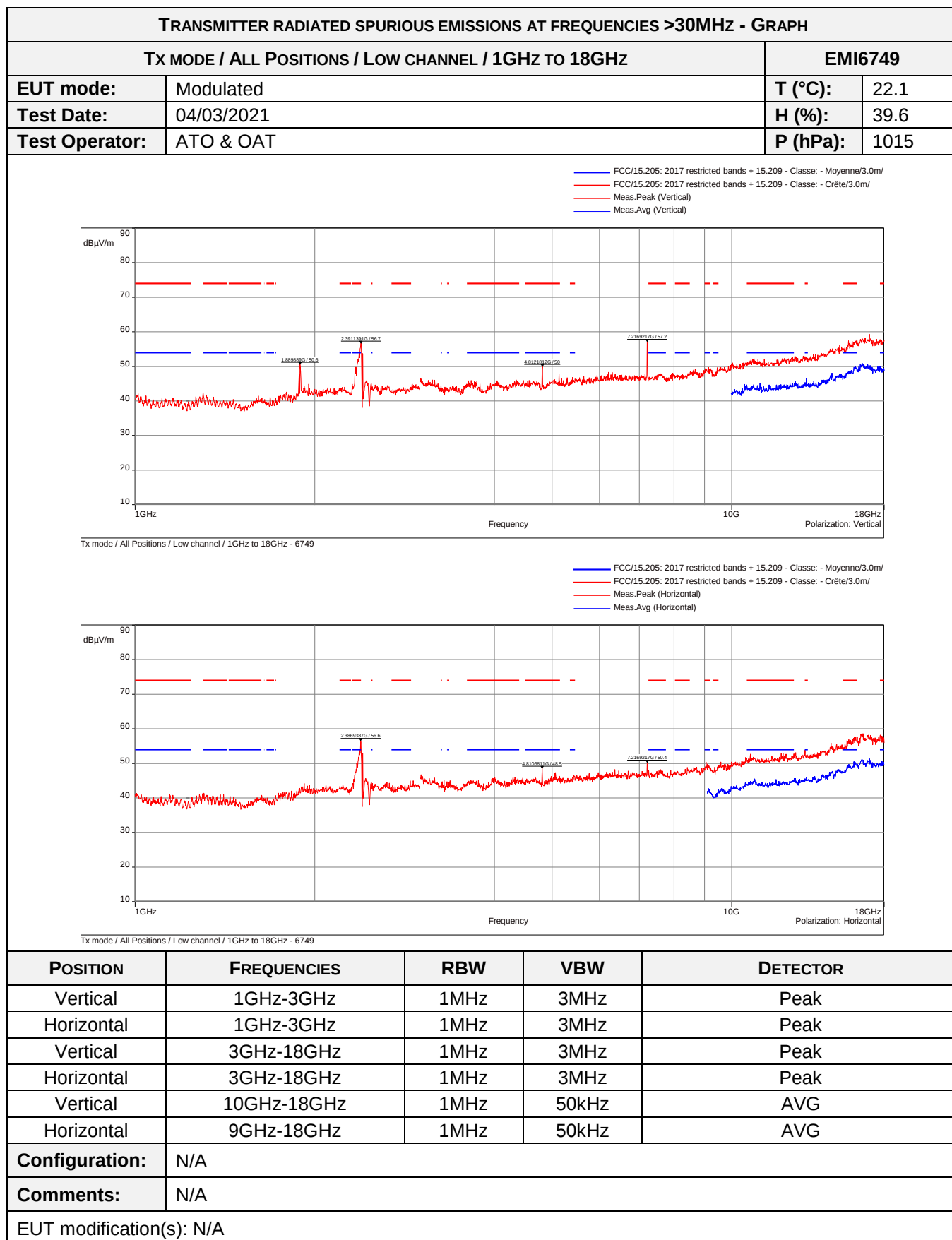


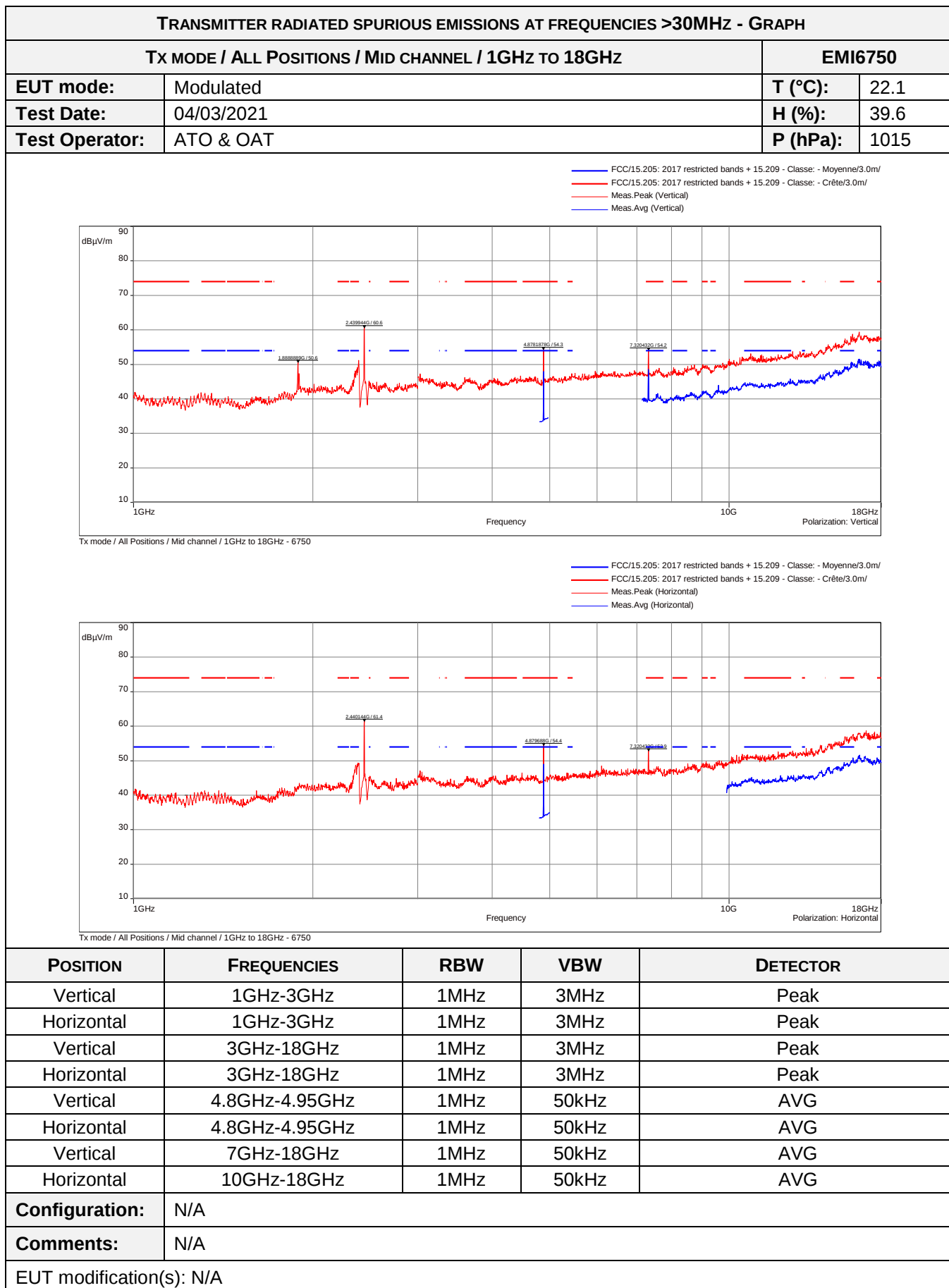
TEST SETUP PHOTO(S) - TX MODE / 18GHZ TO 26.5GHZ

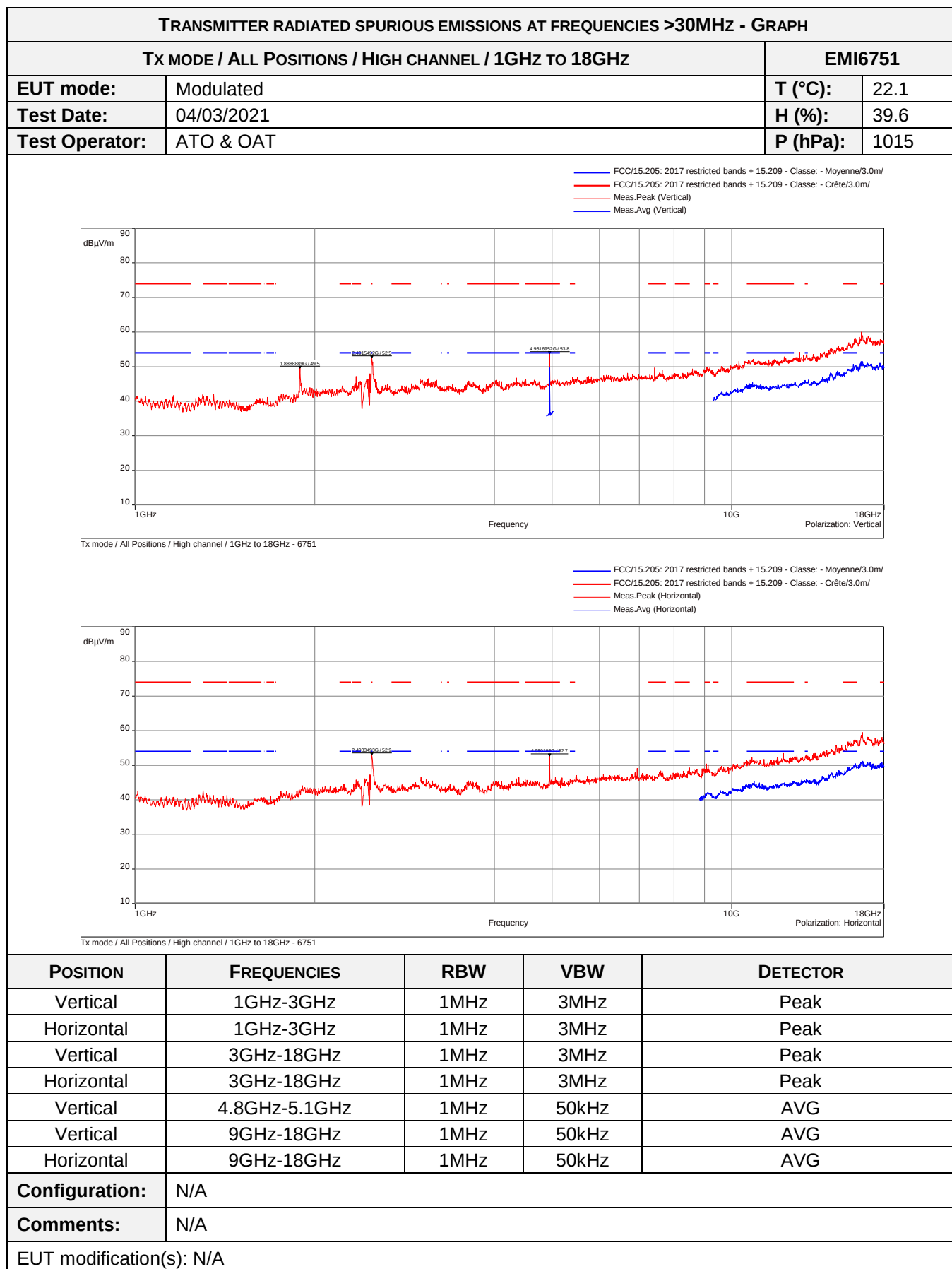


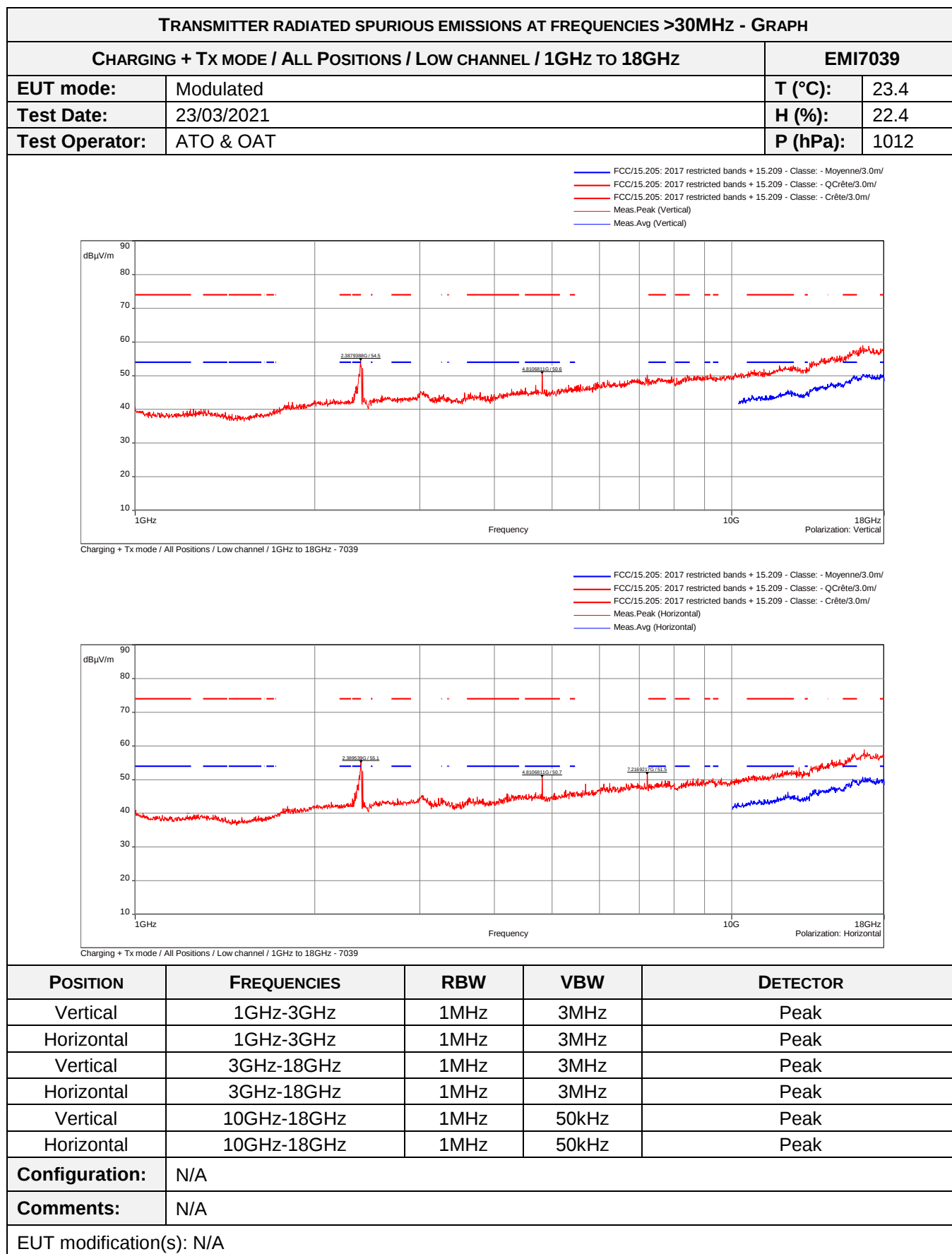


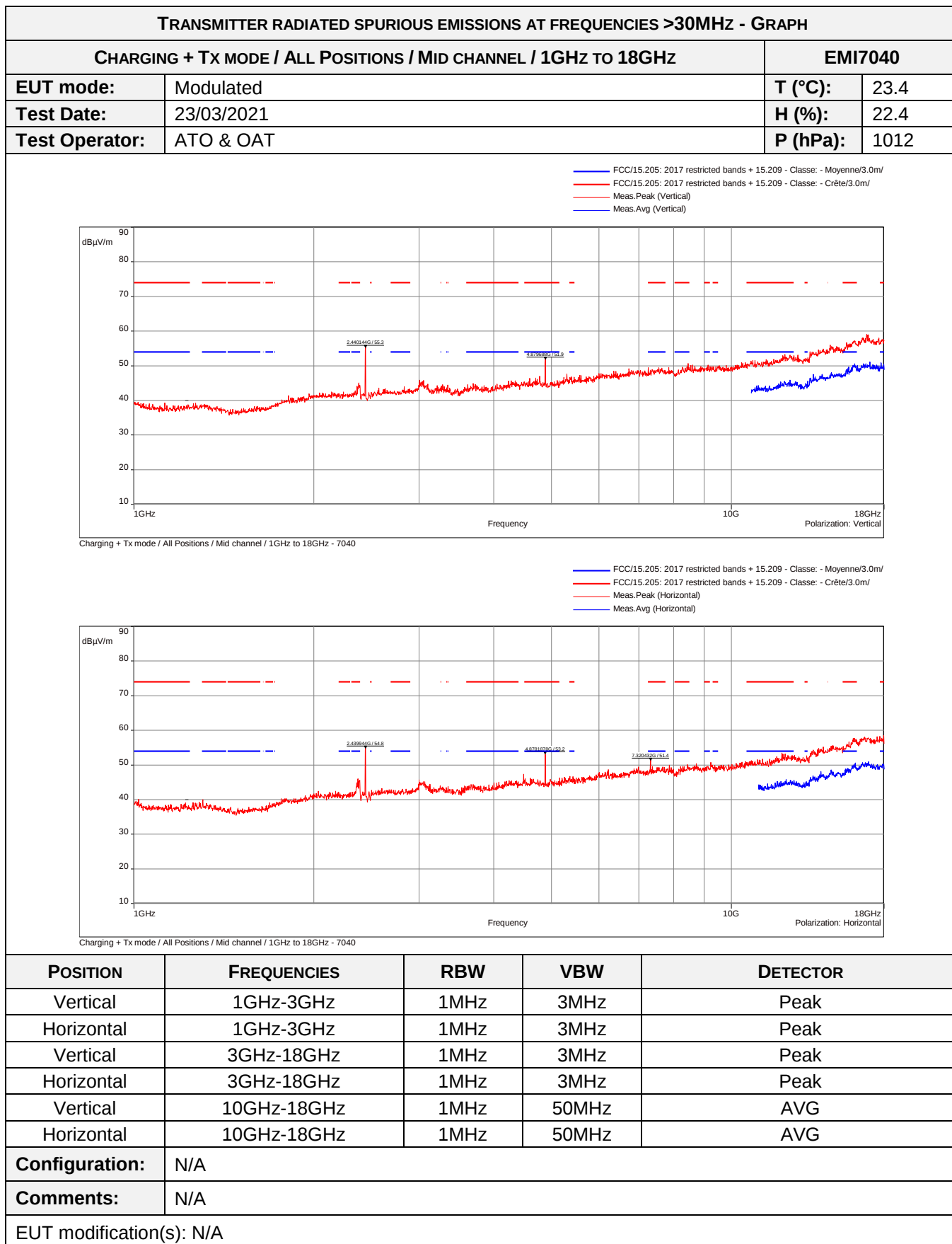


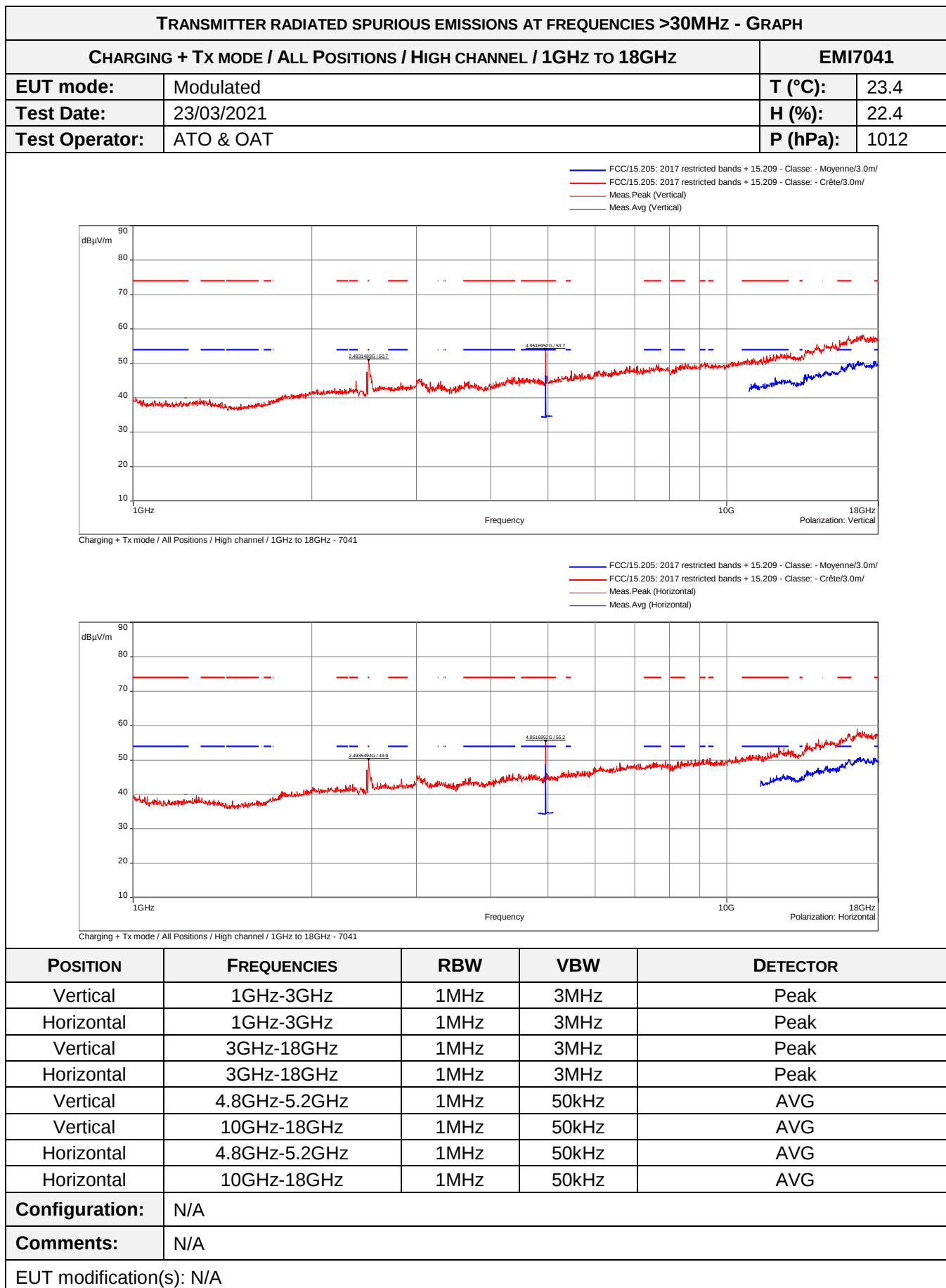


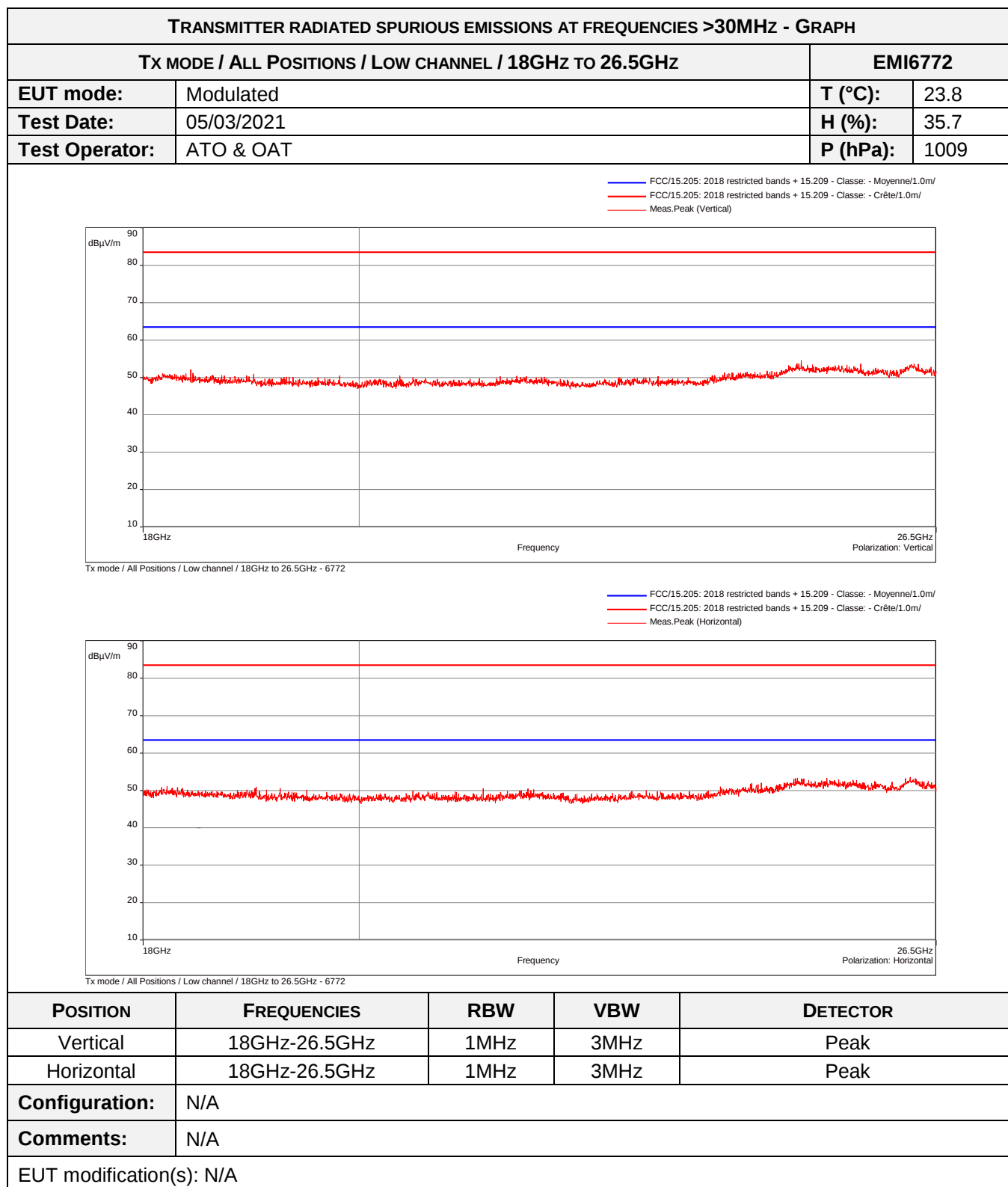




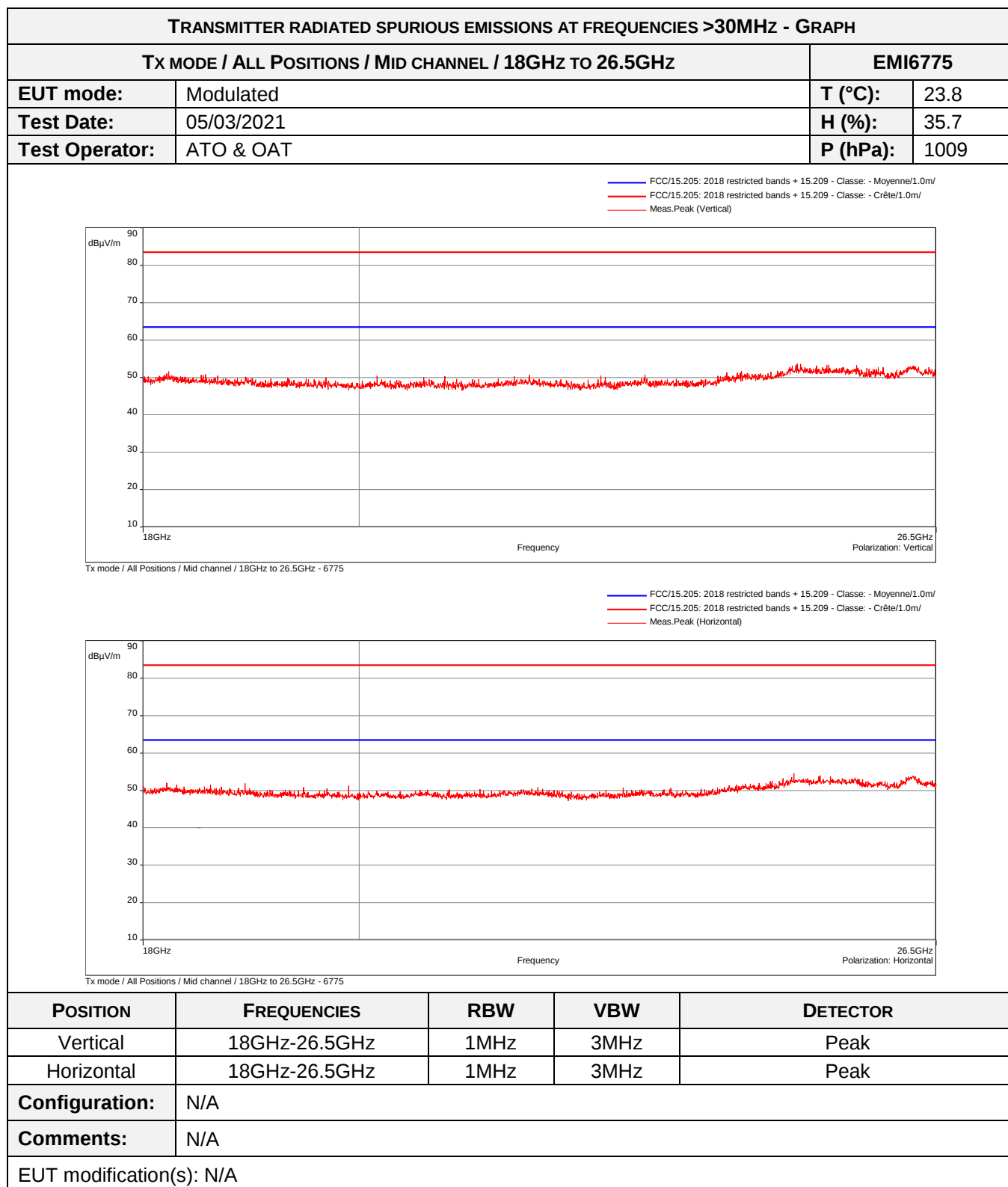




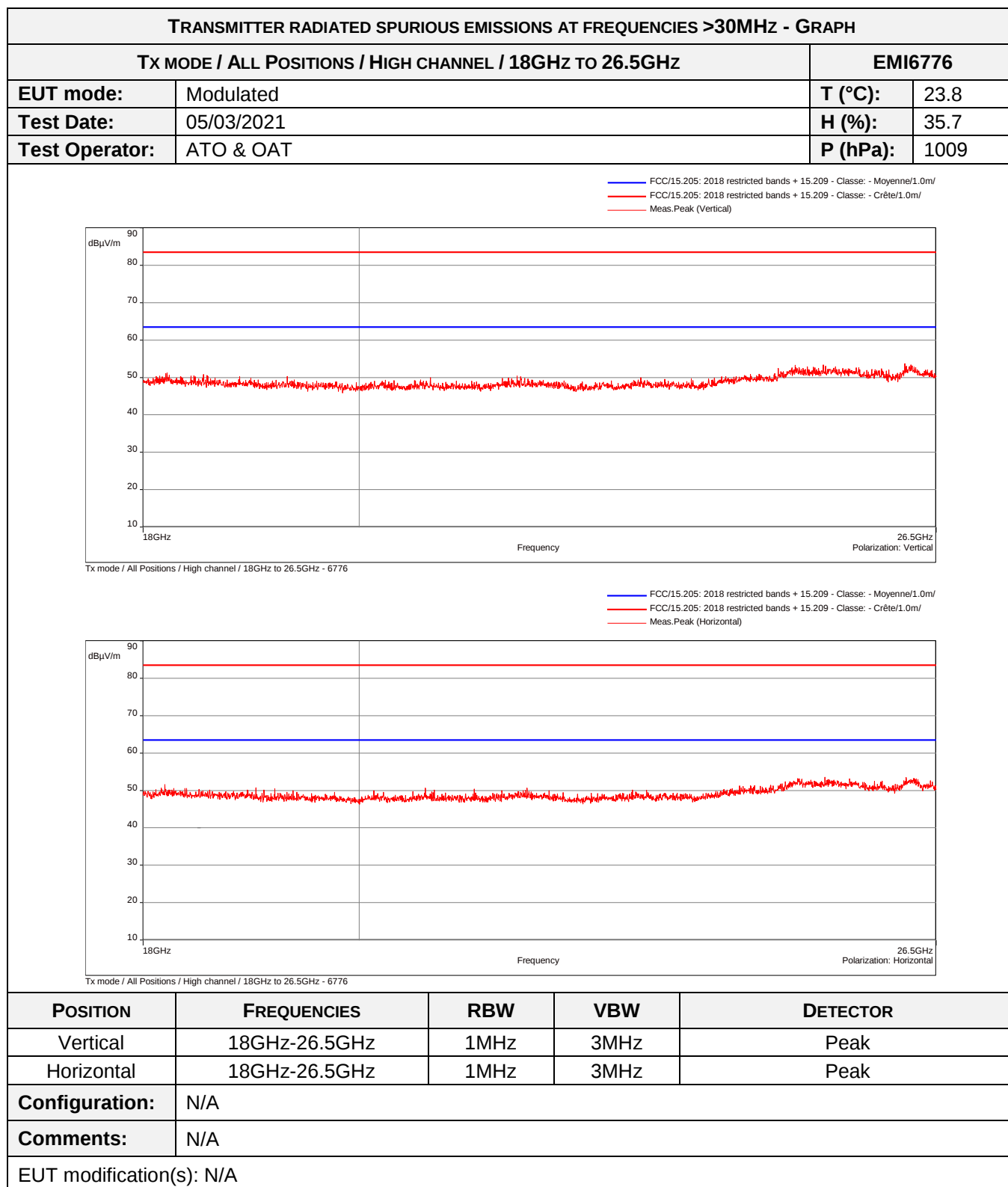




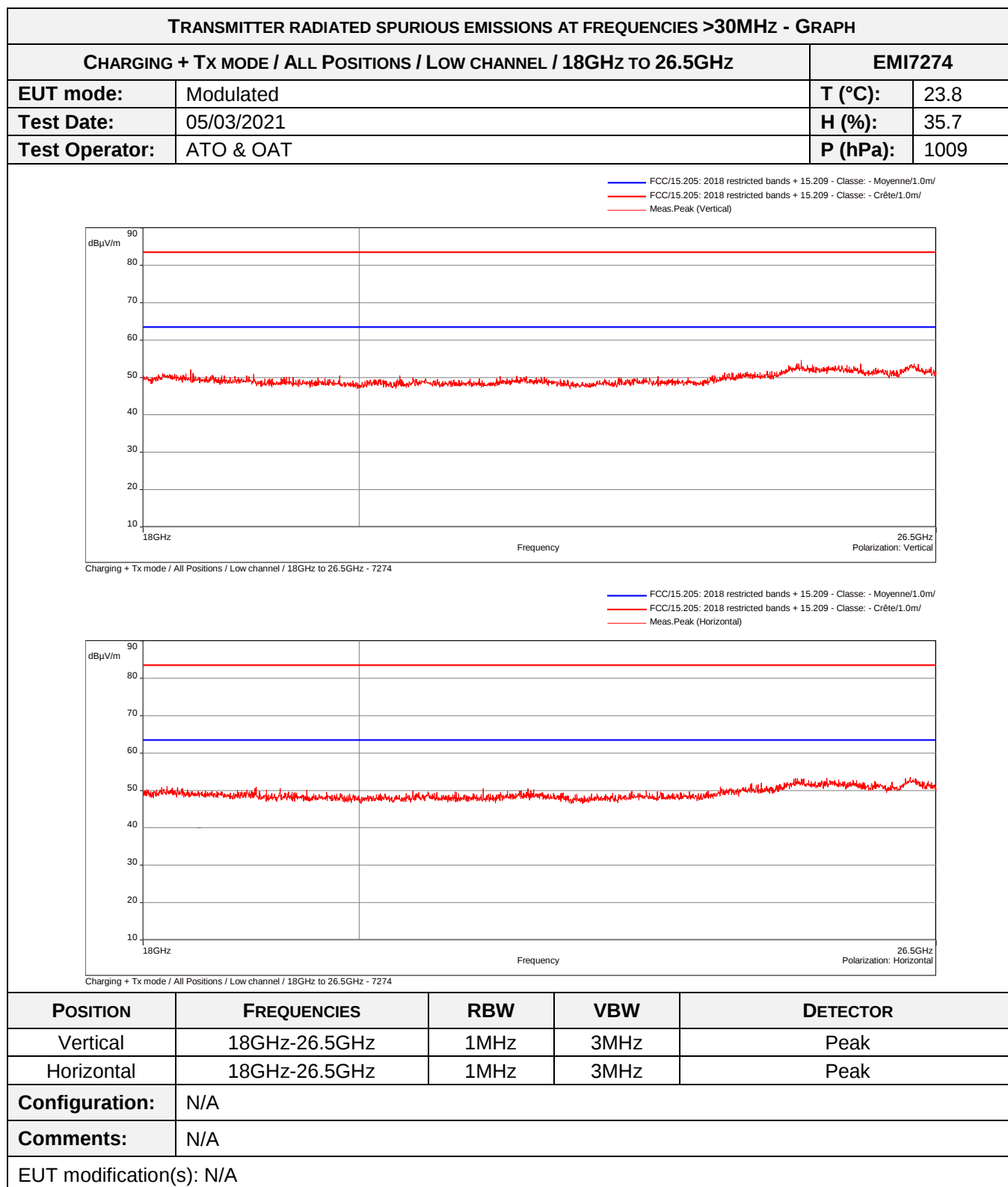
No spurious emissions were detected.



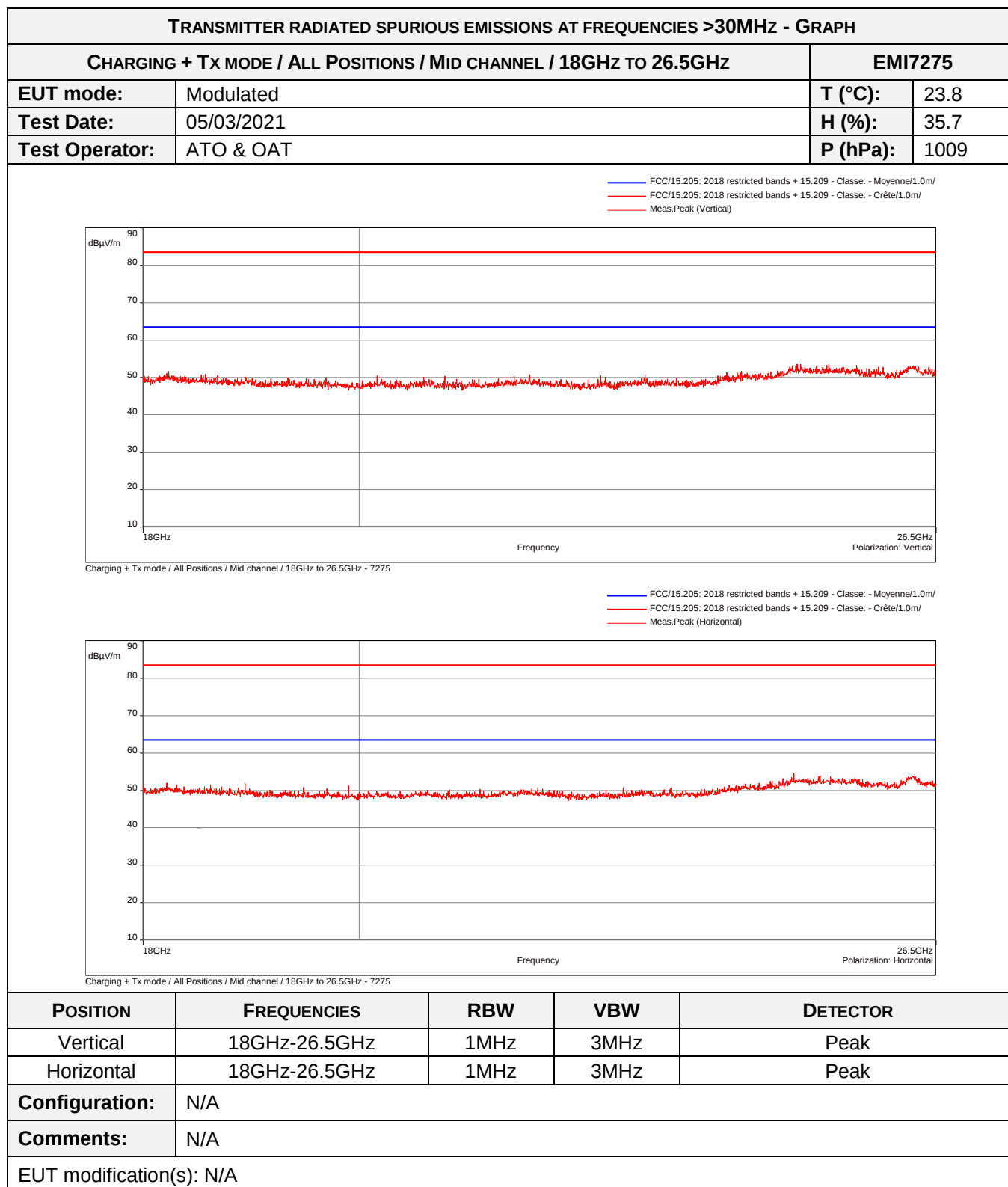
No spurious emissions were detected.



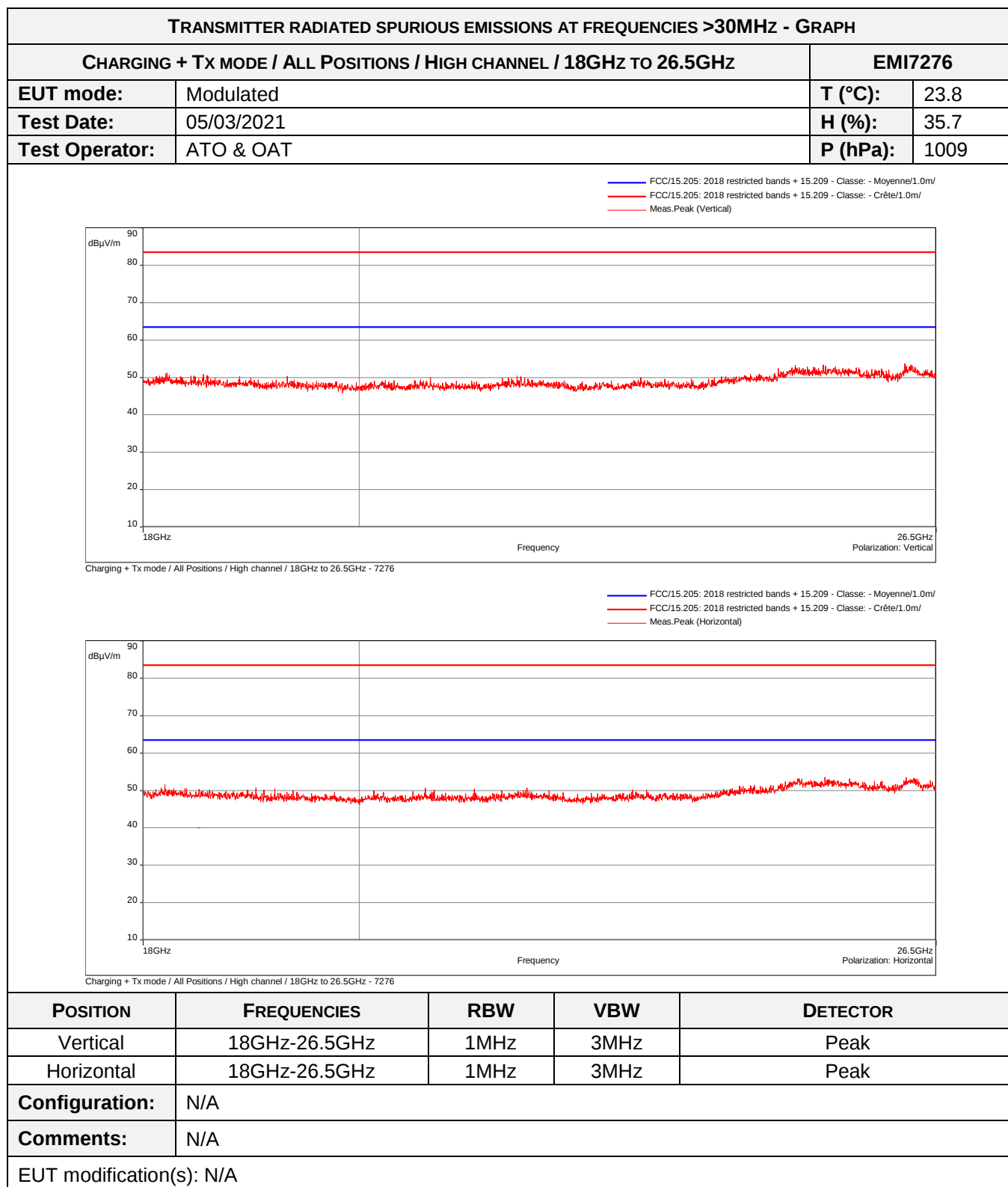
No spurious emissions were detected.



No spurious emissions were detected.



No spurious emissions were detected.



No spurious emissions were detected.

## 8.9. Radiated spurious emissions (receiver)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FCC part 15 Radio part 15.209 & CNR-Gen          |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FCC part 15.109, 15.209, 15.205, 15.215, CNR-Gen |
| <p><b>General test setup:</b> EUT is set on an insulating support at 80cm above the ground reference plane. Measurement are done on a normalized test site by the substitution method.</p> <p>The test antenna is oriented in the two polarizations (vertical and horizontal), and the product is rotated at 360° in the horizontal plane (See photo(s) for initial position of the EUT(0°)). If applicable the test antenna was raised and lowered through the specified range of height until a maximum signal level is detected.</p> <p>For portable equipments a research of maximum level is done on the 3 axes. Only the highest levels are recorded.</p> |                                                  |

| TESTED CONFIGURATION                                                 | PARAMETER     | SEVERITY | RESULT TAB. | VERDICT     |
|----------------------------------------------------------------------|---------------|----------|-------------|-------------|
| Rx mode / All Positions / All channels/ For freq <1GHz               | 30MHz-1GHz    | 15.209   | EMI6981     | <b>PASS</b> |
| Charging + Rx mode / All Positions / All channels                    | 30MHz-1GHz    | 15.209   | EMI6978     | <b>PASS</b> |
| Rx mode / All Positions / All channels / 1GHz to 18GHz               | 1GHz-18GHz    | 15.209   | EMI7022     | <b>PASS</b> |
| Charging + Rx mode / All Positions / All channels / 1GHz to 18GHz    | 1GHz-18GHz    | 15.209   | EMI7029     | <b>PASS</b> |
| Rx mode / All Positions / All channels / 18GHz to 26.5GHz            | 18GHz-26.5GHz | 15.209   | EMI7302     | <b>PASS</b> |
| Charging + Rx mode / All Positions / All channels / 18GHz to 26.5GHz | 18GHz-26.5GHz | 15.209   | EMI7307     | <b>PASS</b> |

| LABORATORY PARAMETERS:            | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|-----------------------------------|----------------------------|-----------------|
| Ambient Temperature               | 15 to 35 °C                | See Graph(s)    |
| Relative Humidity                 | 20 to 75 %                 | See Graph(s)    |
| Atmospheric pressure              | N/A                        | See Graph(s)    |
| <b>Test method deviation:</b> N/A |                            |                 |
| Supplementary information: N/A    |                            |                 |

| TEST EQUIPMENT USED |                      |                  |            |            |            |
|---------------------|----------------------|------------------|------------|------------|------------|
| CATEGORY            | BRAND                | TYPE             | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Antenna             | ETS-Lindgren         | 3117             | 5456       | 24/07/2019 | 24/09/2022 |
| Antenna             | ETS lindgren         | 3160-09          | 14690      | 26/09/2017 | 26/11/2021 |
| Antenna             | Electro Metrics      | BIA-30HF         | 0824       | 13/06/2018 | 13/08/2021 |
| Antenna             | Rohde & Schwarz      | HL223            | 3126       | 13/06/2018 | 13/08/2021 |
| Cable               | MegaPhase            | F135N1N28        | 16664      | 25/10/2019 | 25/12/2021 |
| Cable               | MegaPhase            | F135N1N28        | 16666      | 25/10/2019 | 25/12/2021 |
| Cable               | JYE BAO              | K30K30-5003-40G1 | 14887      | 25/06/2019 | 25/08/2021 |
| Cable               | Huber + Suhner       | K-5m             | 14460      | 25/06/2019 | 25/08/2021 |
| Cable               | /                    | N-1m             | 3625       | 27/01/2021 | 27/03/2023 |
| Cable               | SUCOFLEX             | N-5,5m           | 14381      | 25/06/2019 | 25/08/2021 |
| Cable               | SUCOFLEX             | N-6,5m           | 14380      | 25/07/2019 | 25/09/2021 |
| Cable               | MegaPhase            | N-8m             | 15813      | 14/01/2021 | 14/03/2023 |
| Cable               | Huber + Suhner       | SF102K           | 16041      | 28/02/2019 | 28/04/2021 |
| Cable               | Huber + Suhner       | SF102K           | 16042      | 24/03/2021 | 24/05/2023 |
| Cable               | MegaPhase            | TM18-N1N1-118    | 12841      | 14/08/2020 | 14/10/2022 |
| Cable               | MegaPhase            | TM18-N1N1-118    | 12842      | 02/12/2020 | 02/02/2023 |
| Preamplifier        | Wright Technologie   | ASL40-B3015      | 14851      | 12/08/2020 | 12/10/2021 |
| Preamplifier        | IMPULSE              | CA118-546ACN     | 9169       | 13/01/2021 | 13/03/2022 |
| Receiver            | Agilent Technologies | E4440A           | 5824       | 22/10/2020 | 22/12/2022 |
| Receiver            | Rohde & Schwarz      | ESI              | 9704       | 03/03/2020 | 03/05/2021 |
| Receiver            | Rohde & Schwarz      | FSW43            | 14830      | 29/07/2020 | 29/09/2021 |
| Shielded enclosure  | RAY PROOF            | C.V2             | 1423       | 04/10/2019 | 04/12/2022 |
| Shielded enclosure  | COMTEST              | SAC 3m           | 14494      | 02/10/2019 | 02/12/2022 |
| Software            | Nexio                |                  | 0000       |            |            |
| Thermohygrometer    | Testo                | 608-H1           | 7562       | 25/01/2019 | 25/03/2021 |
| Thermohygrometer    | Testo                | 608-H2           | 12268      | 07/05/2020 | 07/07/2022 |
| Thermohygrometer    | Testo                | 608-H2           | 12269      | 07/05/2020 | 07/07/2022 |
| Thermohygrometer    | Bioblock Scientific  | Météostar        | 0963       | 25/01/2019 | 25/03/2021 |
| Thermohygrometer    | Bioblock Scientific  | Météostar        | 0963       | 26/01/2019 | 26/09/2021 |

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

| RADIATED SPURIOUS EMISSIONS (RECEIVER)- TABULATED RESULTS |              |                      |                          |                 |              |
|-----------------------------------------------------------|--------------|----------------------|--------------------------|-----------------|--------------|
| CHARGING + TX MODE / ALL POSITIONS / ALL CHANNELS         |              |                      |                          | EMI6978         |              |
| Frequency<br>MHz                                          | Polarization | Level peak<br>dBμV/m | Level<br>Qpeak<br>dBμV/m | Limit<br>dBμV/m | Margin<br>dB |
| 30.068                                                    | Vertical     | 36.86                | 29.7                     | 40              | -10.3        |
| 30.119                                                    | Vertical     | 37.26                | 29.63                    | 40              | -10.37       |
| 30.238                                                    | Vertical     | 37.28                | 29.6                     | 40              | -10.4        |
| 30.255                                                    | Vertical     | 37.26                | 29.71                    | 40              | -10.29       |
| 30.391                                                    | Vertical     | 37.99                | 30.84                    | 40              | -9.16        |
| 30.544                                                    | Vertical     | 39.21                | 30.69                    | 40              | -9.31        |
| 30.629                                                    | Vertical     | 39.17                | 30.98                    | 40              | -9.02        |
| 30.748                                                    | Vertical     | 39.71                | 32.61                    | 40              | -7.39        |
| 30.867                                                    | Vertical     | 39.94                | 32.18                    | 40              | -7.82        |
| 30.901                                                    | Vertical     | 39.93                | 31.85                    | 40              | -8.15        |
| 30.969                                                    | Vertical     | 39.66                | 31.42                    | 40              | -8.58        |
| 31.139                                                    | Vertical     | 39.45                | 32.2                     | 40              | -7.8         |
| 31.377                                                    | Vertical     | 38.41                | 31.48                    | 40              | -8.52        |
| 31.564                                                    | Vertical     | 37.91                | 32.26                    | 40              | -7.74        |
| 31.632                                                    | Vertical     | 37.88                | 32.39                    | 40              | -7.61        |
| 31.853                                                    | Vertical     | 38.3                 | 32.25                    | 40              | -7.75        |
| 32.057                                                    | Vertical     | 38.51                | 32.69                    | 40              | -7.31        |
| 32.448                                                    | Vertical     | 38.69                | 32.68                    | 40              | -7.32        |
| 32.499                                                    | Vertical     | 38.37                | 32.79                    | 40              | -7.21        |
| 32.686                                                    | Vertical     | 39.7                 | 33.77                    | 40              | -6.23        |
| 32.805                                                    | Vertical     | 39.44                | 33.42                    | 40              | -6.58        |
| 32.941                                                    | Vertical     | 40.01                | 33.58                    | 40              | -6.42        |
| 33.060                                                    | Vertical     | 40.47                | 33.98                    | 40              | -6.02        |
| 33.128                                                    | Vertical     | 40.49                | 33.84                    | 40              | -6.16        |
| 33.264                                                    | Vertical     | 39.55                | 33.54                    | 40              | -6.46        |
| 33.519                                                    | Vertical     | 40.26                | 33.99                    | 40              | -6.01        |
| 33.536                                                    | Vertical     | 40.24                | 33.89                    | 40              | -6.11        |
| 33.587                                                    | Vertical     | 39.98                | 33.88                    | 40              | -6.12        |
| 33.723                                                    | Vertical     | 40.91                | 34.88                    | 40              | -5.12        |
| 33.825                                                    | Vertical     | 40.91                | 35.06                    | 40              | -4.94        |
| 33.944                                                    | Vertical     | 40.11                | 34.77                    | 40              | -5.23        |
| 34.301                                                    | Vertical     | 41.15                | 35.86                    | 40              | -4.14        |
| 34.318                                                    | Vertical     | 41.62                | 35.86                    | 40              | -4.14        |
| 34.471                                                    | Vertical     | 42.51                | 36.59                    | 40              | -3.41        |
| 34.658                                                    | Vertical     | 42.2                 | 36.55                    | 40              | -3.45        |
| 34.760                                                    | Vertical     | 42.64                | 37.43                    | 40              | -2.57        |
| 34.879                                                    | Vertical     | 42.63                | 37.6                     | 40              | -2.4         |
| 34.964                                                    | Vertical     | 42.64                | 37.25                    | 40              | -2.75        |
| 35.152                                                    | Vertical     | 42.16                | 37.53                    | 40              | -2.47        |
| 35.254                                                    | Vertical     | 42.43                | 37.98                    | 40              | -2.02        |
| 35.577                                                    | Vertical     | 42.01                | 37.83                    | 40              | -2.17        |
| 35.594                                                    | Vertical     | 42.11                | 37.71                    | 40              | -2.29        |
| 35.849                                                    | Vertical     | 41.39                | 37.17                    | 40              | -2.83        |
| 35.917                                                    | Vertical     | 41.45                | 37.25                    | 40              | -2.75        |
| 36.223                                                    | Vertical     | 40.51                | 36.28                    | 40              | -3.72        |

| RADIATED SPURIOUS EMISSIONS (RECEIVER)- TABULATED RESULTS |          |       |       |         |        |
|-----------------------------------------------------------|----------|-------|-------|---------|--------|
| CHARGING + TX MODE / ALL POSITIONS / ALL CHANNELS         |          |       |       | EMI6978 |        |
| 36.495                                                    | Vertical | 39.36 | 34.58 | 40      | -5.42  |
| 36.733                                                    | Vertical | 37.37 | 32.14 | 40      | -7.86  |
| 37.039                                                    | Vertical | 34.56 | 28.77 | 40      | -11.23 |
| 37.226                                                    | Vertical | 33.72 | 28.51 | 40      | -11.49 |
| 37.311                                                    | Vertical | 34    | 28.2  | 40      | -11.8  |
| 37.498                                                    | Vertical | 33.22 | 27.54 | 40      | -12.46 |
| 37.634                                                    | Vertical | 33.49 | 27.48 | 40      | -12.52 |
| 37.787                                                    | Vertical | 32.53 | 26.66 | 40      | -13.34 |
| 37.872                                                    | Vertical | 32.51 | 26.42 | 40      | -13.58 |
| 37.974                                                    | Vertical | 32.08 | 25.62 | 40      | -14.38 |
| 38.025                                                    | Vertical | 31.06 | 25.25 | 40      | -14.75 |
| 38.331                                                    | Vertical | 31.4  | 25.72 | 40      | -14.28 |
| 38.535                                                    | Vertical | 31.7  | 25.83 | 40      | -14.17 |
| 38.739                                                    | Vertical | 32.7  | 25.98 | 40      | -14.02 |
| 38.994                                                    | Vertical | 32.68 | 25.96 | 40      | -14.04 |
| 39.181                                                    | Vertical | 33.81 | 26.07 | 40      | -13.93 |
| 39.385                                                    | Vertical | 34.07 | 27.26 | 40      | -12.74 |
| 39.623                                                    | Vertical | 34.59 | 28.14 | 40      | -11.86 |
| 39.844                                                    | Vertical | 34.7  | 29.5  | 40      | -10.5  |
| 39.963                                                    | Vertical | 36.21 | 30.94 | 40      | -9.06  |
| 40.150                                                    | Vertical | 37.53 | 31.91 | 40      | -8.09  |
| 40.405                                                    | Vertical | 39.59 | 35.22 | 40      | -4.78  |
| 40.592                                                    | Vertical | 41.14 | 36.21 | 40      | -3.79  |
| 40.864                                                    | Vertical | 42.21 | 37.44 | 40      | -2.56  |
| 40.881                                                    | Vertical | 42.23 | 37.6  | 40      | -2.4   |
| 40.966                                                    | Vertical | 42.47 | 38.35 | 40      | -1.65  |
| 41.187                                                    | Vertical | 43.08 | 38.48 | 40      | -1.52  |
| 41.272                                                    | Vertical | 43.02 | 38.41 | 40      | -1.59  |
| 41.493                                                    | Vertical | 43.24 | 38.72 | 40      | -1.28  |
| 41.595                                                    | Vertical | 43.01 | 38.37 | 40      | -1.63  |
| 41.612                                                    | Vertical | 42.76 | 38.34 | 40      | -1.66  |
| 41.765                                                    | Vertical | 42.41 | 37.68 | 40      | -2.32  |
| 41.884                                                    | Vertical | 41.89 | 36.97 | 40      | -3.03  |
| 41.935                                                    | Vertical | 41.57 | 36.87 | 40      | -3.13  |
| 42.088                                                    | Vertical | 40.93 | 36.64 | 40      | -3.36  |
| 42.275                                                    | Vertical | 40.19 | 35.33 | 40      | -4.67  |
| 42.411                                                    | Vertical | 39.19 | 34.49 | 40      | -5.51  |
| 42.479                                                    | Vertical | 38.85 | 34.34 | 40      | -5.66  |
| 42.615                                                    | Vertical | 38.28 | 33.71 | 40      | -6.29  |
| 42.751                                                    | Vertical | 37.24 | 32.92 | 40      | -7.08  |
| 42.819                                                    | Vertical | 37.44 | 32.58 | 40      | -7.42  |
| 42.989                                                    | Vertical | 36.78 | 31.77 | 40      | -8.23  |
| 43.159                                                    | Vertical | 36.93 | 32.21 | 40      | -7.79  |
| 43.397                                                    | Vertical | 35.29 | 30.31 | 40      | -9.69  |
| 43.754                                                    | Vertical | 33.99 | 29.08 | 40      | -10.92 |
| 43.839                                                    | Vertical | 33.91 | 29.01 | 40      | -10.99 |
| 43.992                                                    | Vertical | 33.89 | 28.91 | 40      | -11.09 |
| 44.179                                                    | Vertical | 33.62 | 28.64 | 40      | -11.36 |
| 44.298                                                    | Vertical | 33.43 | 28.83 | 40      | -11.17 |

| RADIATED SPURIOUS EMISSIONS (RECEIVER)- TABULATED RESULTS |          |       |       |         |        |
|-----------------------------------------------------------|----------|-------|-------|---------|--------|
| CHARGING + TX MODE / ALL POSITIONS / ALL CHANNELS         |          |       |       | EMI6978 |        |
| 44.502                                                    | Vertical | 32.36 | 27.25 | 40      | -12.75 |
| 44.519                                                    | Vertical | 32.67 | 27.05 | 40      | -12.95 |
| 44.604                                                    | Vertical | 33.02 | 26.73 | 40      | -13.27 |
| 44.689                                                    | Vertical | 32.01 | 26.82 | 40      | -13.18 |
| 44.842                                                    | Vertical | 31.63 | 25.79 | 40      | -14.21 |
| 44.859                                                    | Vertical | 32.19 | 25.93 | 40      | -14.07 |
| 45.251                                                    | Vertical | 31.03 | 24.88 | 40      | -15.12 |
| 45.268                                                    | Vertical | 30.87 | 24.82 | 40      | -15.18 |
| 45.863                                                    | Vertical | 29.62 | 23.91 | 40      | -16.09 |
| 45.948                                                    | Vertical | 29.8  | 23.79 | 40      | -16.21 |
| 46.271                                                    | Vertical | 29.78 | 23.84 | 40      | -16.16 |
| 46.730                                                    | Vertical | 29.49 | 23.39 | 40      | -16.61 |
| 46.883                                                    | Vertical | 29.53 | 23.71 | 40      | -16.29 |
| 47.206                                                    | Vertical | 30.59 | 23.71 | 40      | -16.29 |

TEST SETUP PHOTO(S) – Rx MODE / POSITION 1



TEST SETUP PHOTO(S) – Rx MODE – POSITION 2



TEST SETUP PHOTO(S) – RX MODE – POSITION 3



TEST SETUP PHOTO(S) – CHARGING + RX MODE – POSITION 1



TEST SETUP PHOTO(S) - CHARGING + RX MODE – POSITION 2



TEST SETUP PHOTO(S) - CHARGING + RX MODE – POSITION 3



TEST SETUP PHOTO(S) – RX MODE – 30MHz TO 200MHz



TEST SETUP PHOTO(S) – RX MODE – 200MHz TO 1GHz

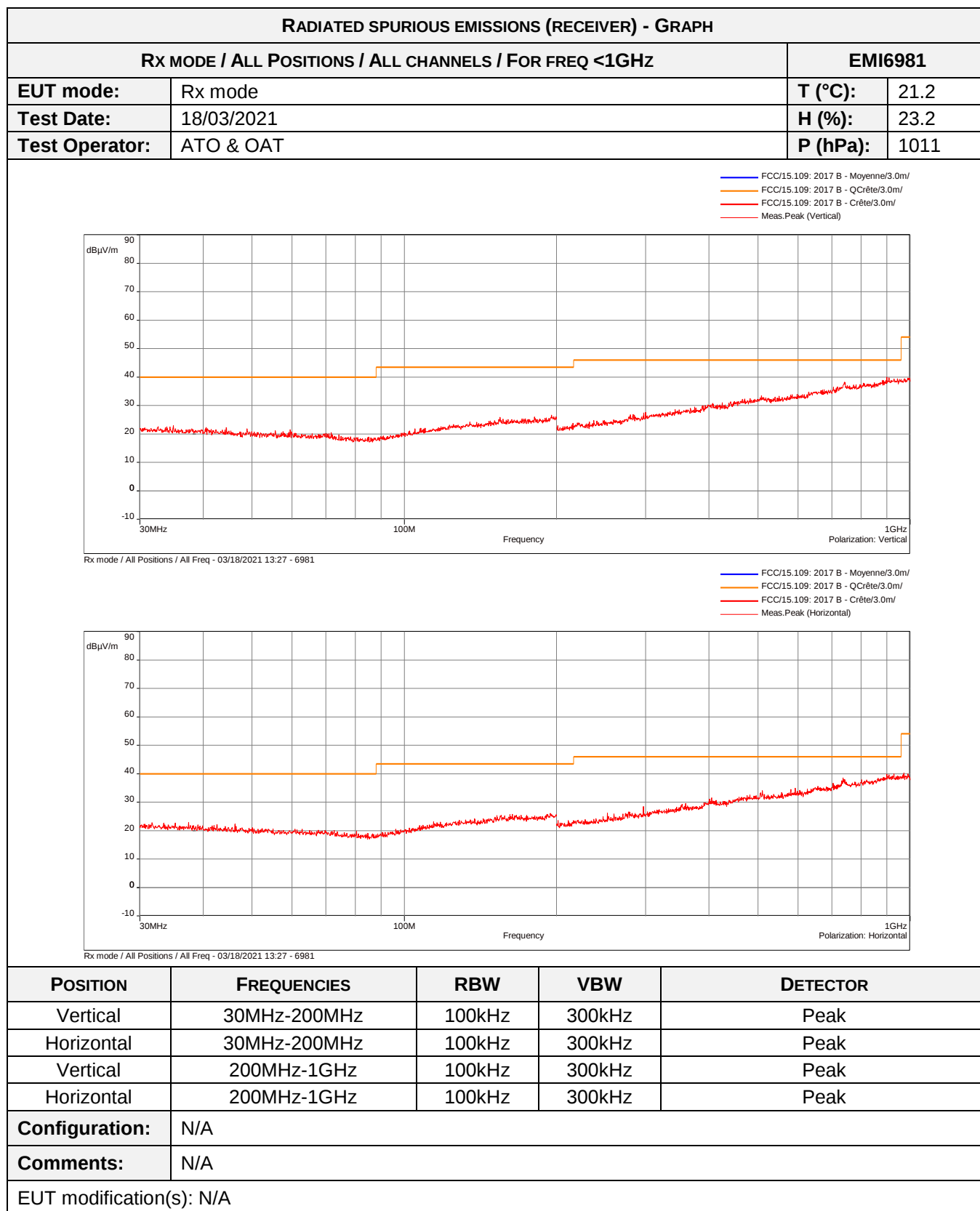


TEST SETUP PHOTO(S) – RX MODE – 1GHZ TO 18GHZ

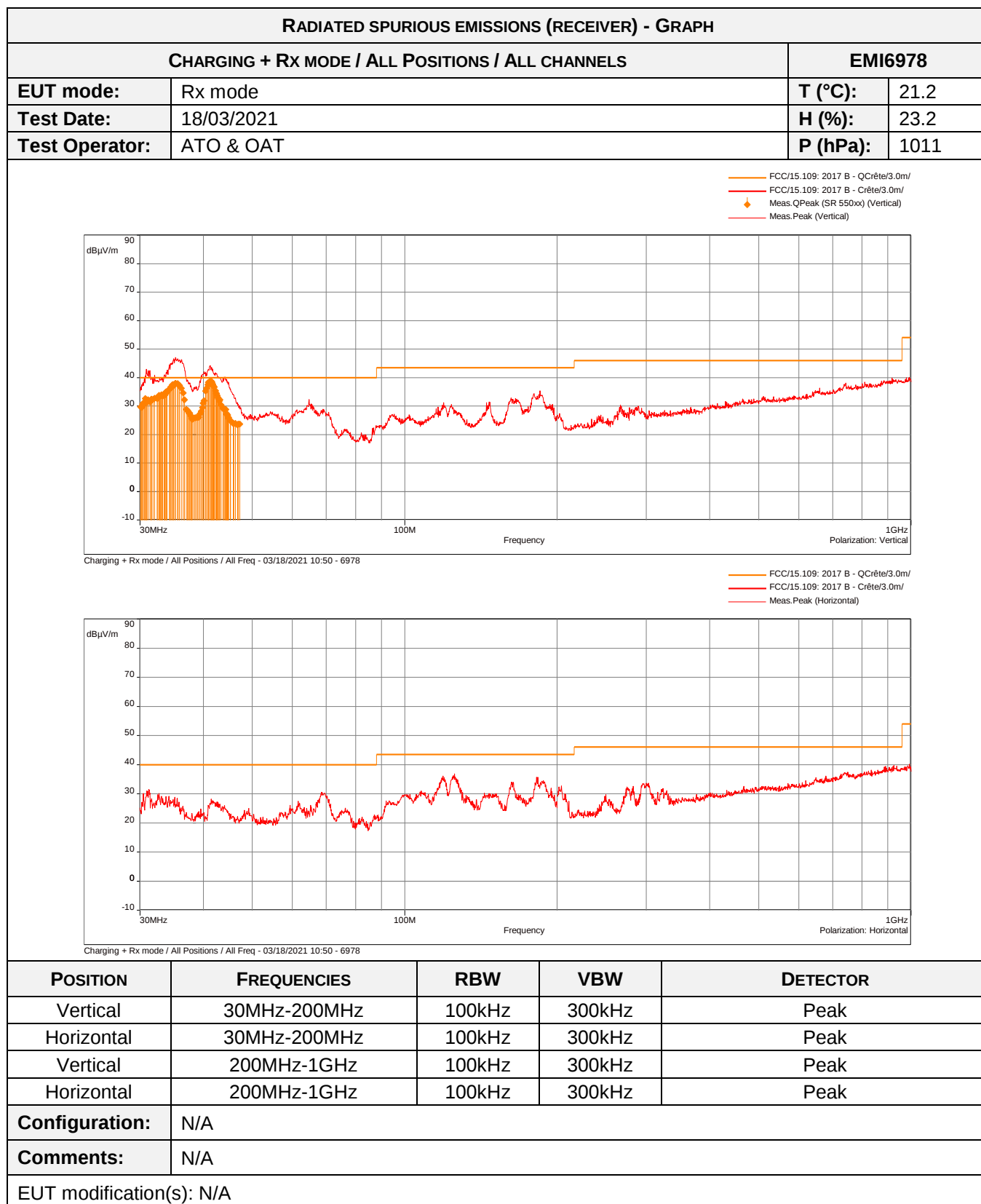


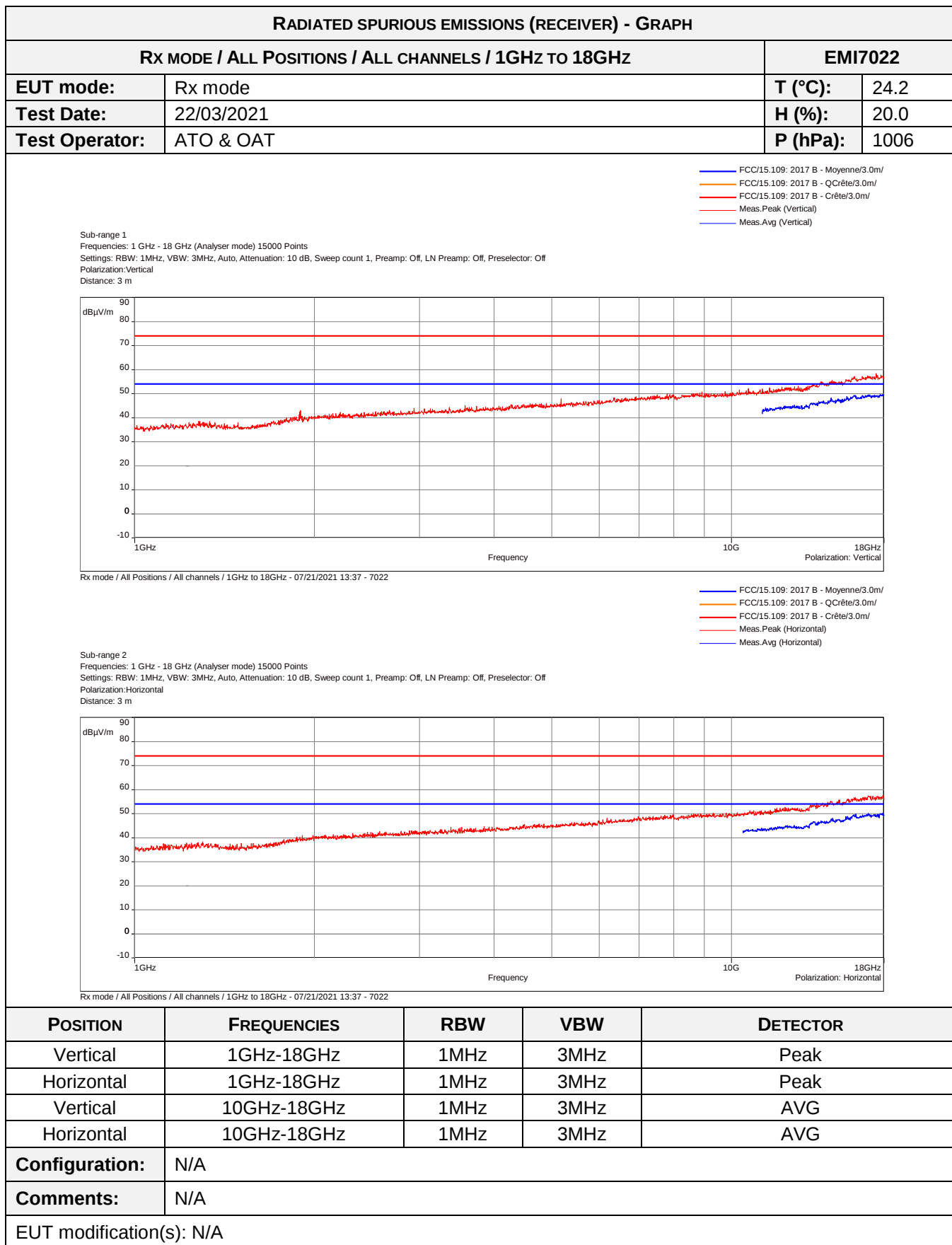
TEST SETUP PHOTO(S) - RX MODE / 18GHZ TO 26.5GHZ

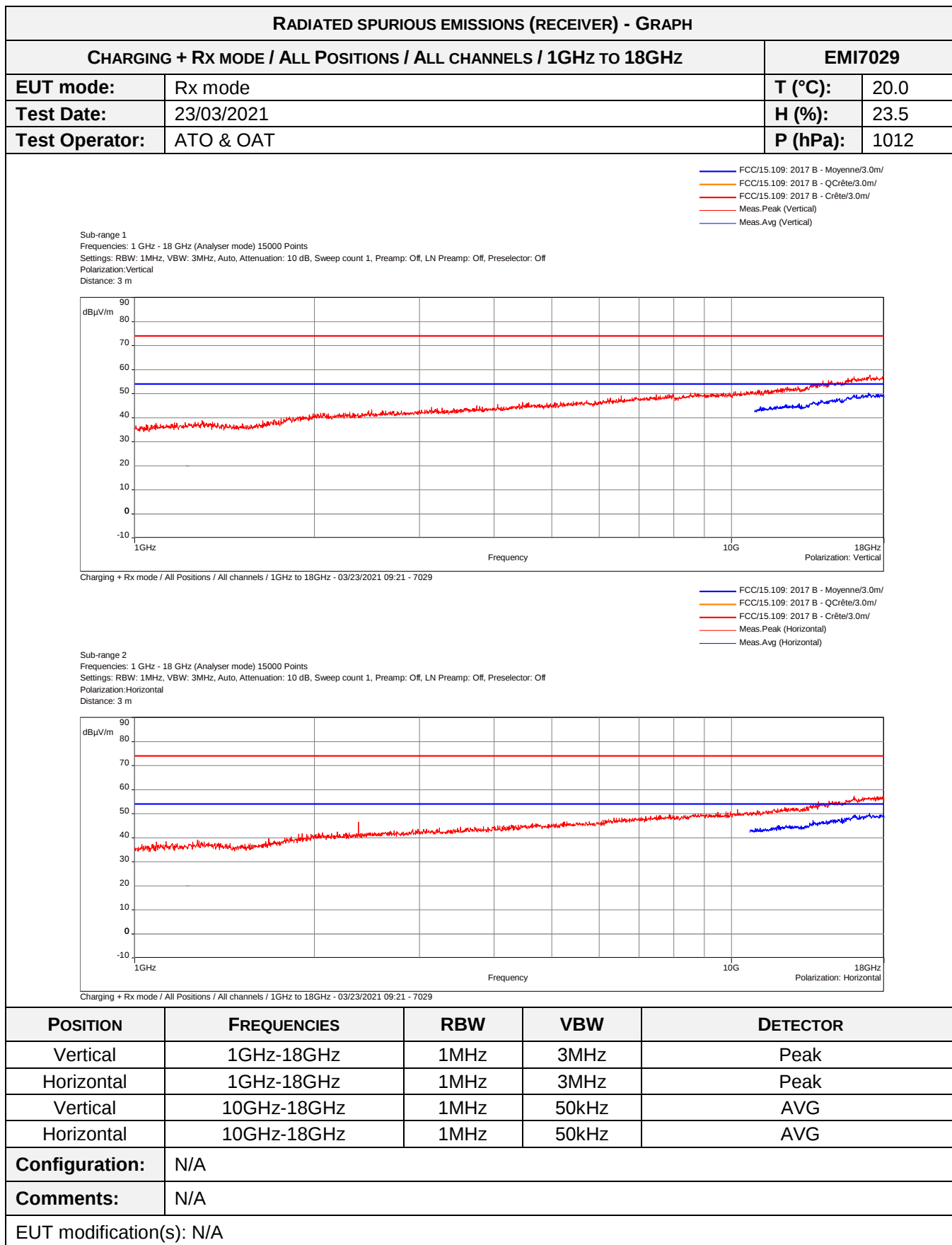


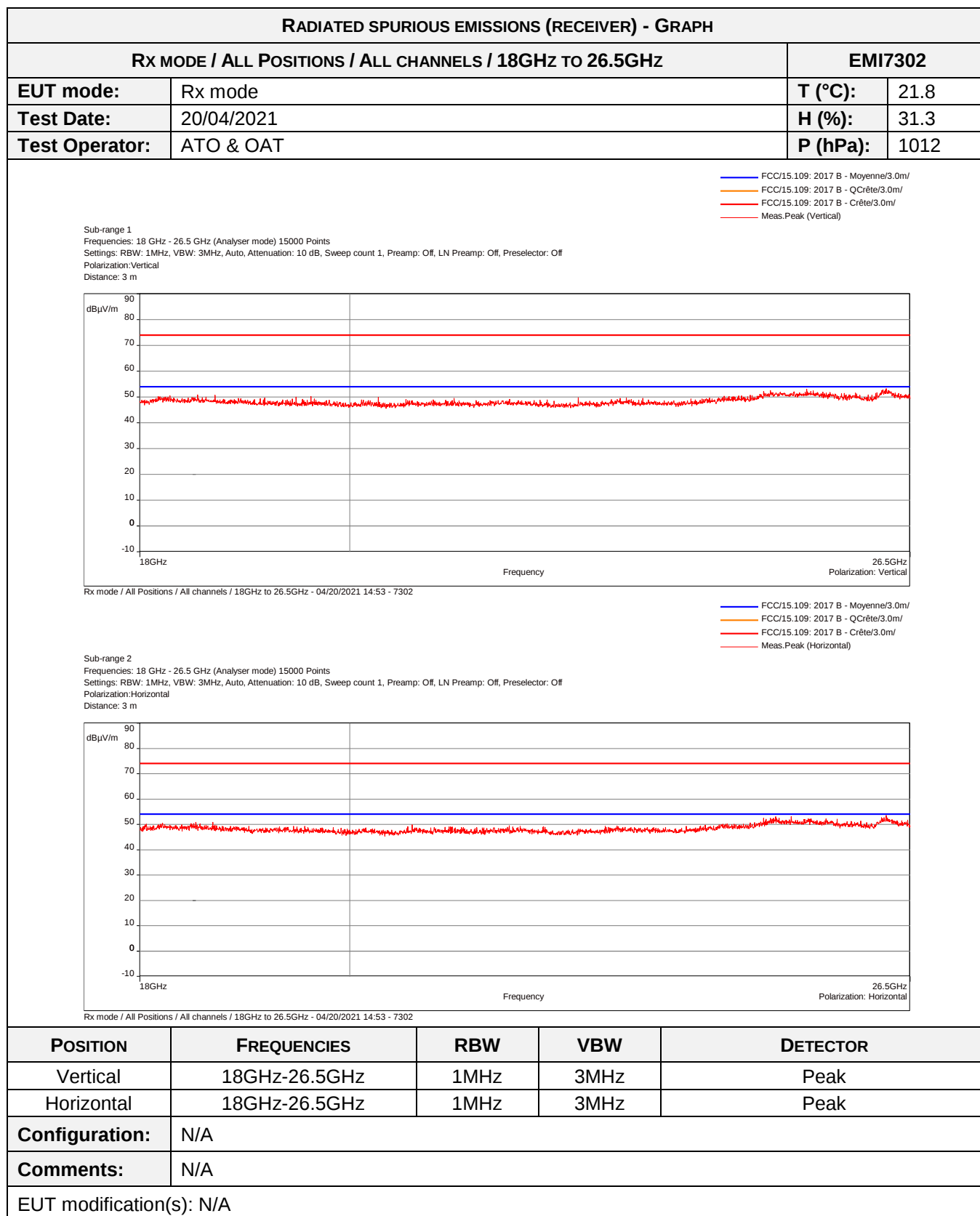


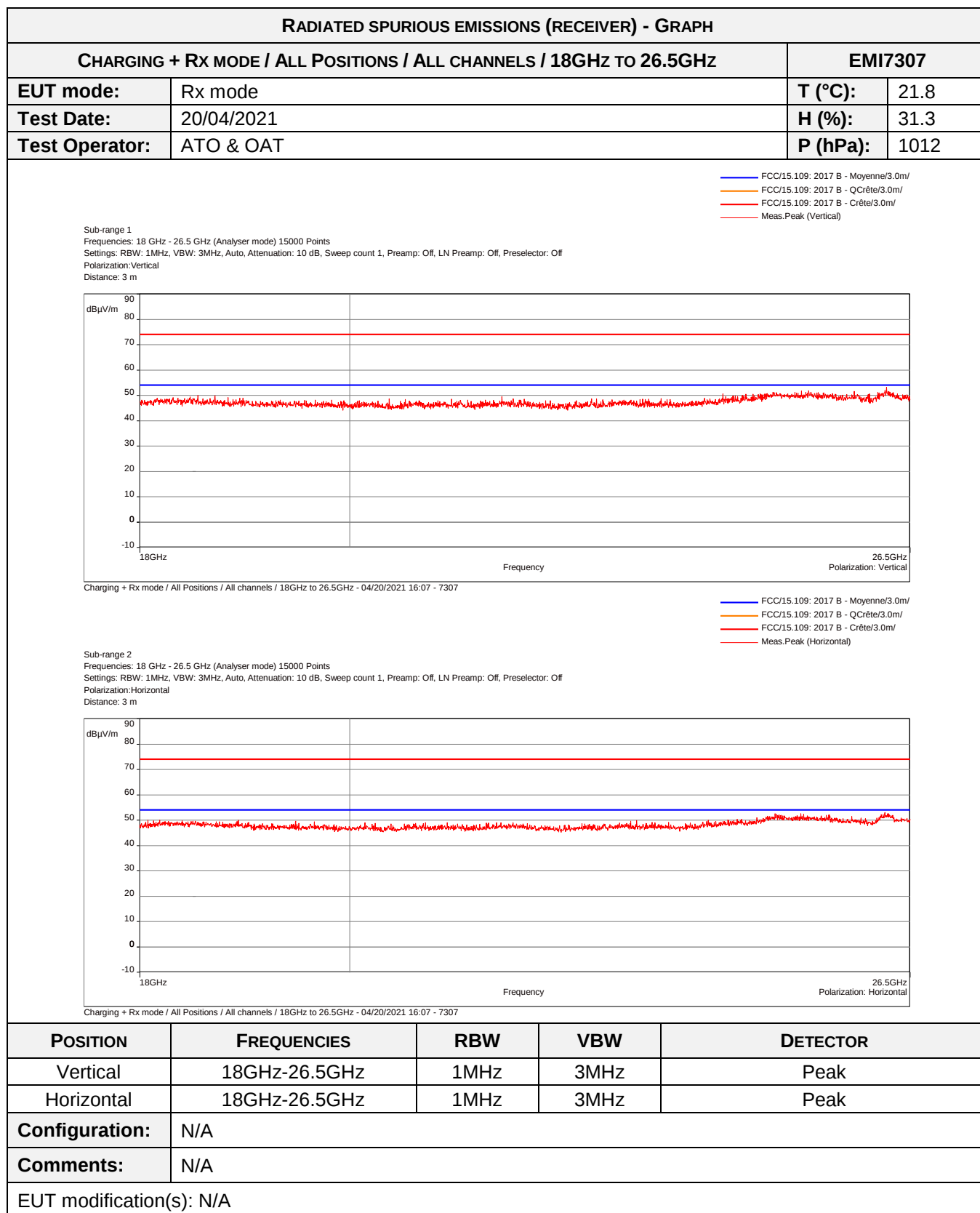
No spurious emissions were detected.











## 8.10. Frequency error

|                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Reference standard:</b>                                                                                                                                                                                                                                                                                                                                                                                                | FCC part 15 Radio part 15.215 and RSS Gen |
| <b>Test method:</b>                                                                                                                                                                                                                                                                                                                                                                                                       | FCC part 15 Radio part 15.215 and RSS Gen |
| <b>Test description:</b> Frequency error is the difference between the measured unmodulated carrier frequency under extreme conditions and the nominal Centre Frequency as stated by the manufacturer. This measurement procedure only applies if the EUT can generate an unmodulated carrier.<br>EUT is set inside the climatic enclosure. It is connected to the measuring receiver via 50Ω attenuator(s).<br>RBW=200Hz |                                           |

| TEST CASE                    | EUT MODE      | SEVERITY | RESULT TAB. | VERDICT |
|------------------------------|---------------|----------|-------------|---------|
| Low channel / 25°C/ 3.7Vdc   | Continuous Tx | 0.001 %  | EMI6793     | PASS    |
| Low channel / 25°C/ 4.2Vdc   | Continuous Tx | 0.001 %  | EMI6794     | PASS    |
| Low channel / 25°C/ 3.45Vdc  | Continuous Tx | 0.001 %  | EMI6795     | PASS    |
| Mid channel / 25°C/ 3.7Vdc   | Continuous Tx | 0.001 %  | EMI6796     | PASS    |
| Mid channel / 25°C/ 4.2Vdc   | Continuous Tx | 0.001 %  | EMI6797     | PASS    |
| Mid channel / 25°C/ 3.45Vdc  | Continuous Tx | 0.001 %  | EMI6798     | PASS    |
| High channel / 25°C/ 3.7Vdc  | Continuous Tx | 0.001 %  | EMI6799     | PASS    |
| High channel / 25°C/ 4.2Vdc  | Continuous Tx | 0.001 %  | EMI6800     | PASS    |
| High channel / 25°C/ 3.45Vdc | Continuous Tx | 0.001 %  | EMI6801     | PASS    |
| Low channel / -5°C/ 3.7Vdc   | Continuous Tx | 0.001 %  | EMI6887     | PASS    |
| Low channel / -5°C/ 4.2Vdc   | Continuous Tx | 0.001 %  | EMI6888     | PASS    |
| Low channel / -5°C/ 3.45Vdc  | Continuous Tx | 0.001 %  | EMI6889     | PASS    |
| Mid channel / -5°C/ 3.7Vdc   | Continuous Tx | 0.001 %  | EMI6890     | PASS    |
| Mid channel / -5°C/ 4.2Vdc   | Continuous Tx | 0.001 %  | EMI6891     | PASS    |
| Mid channel / -5°C/ 3.45Vdc  | Continuous Tx | 0.001 %  | EMI6892     | PASS    |
| High channel / -5°C/ 3.7Vdc  | Continuous Tx | 0.001 %  | EMI6893     | PASS    |
| High channel / -5°C/ 4.2Vdc  | Continuous Tx | 0.001 %  | EMI6894     | PASS    |
| High channel / -5°C/ 3.45Vdc | Continuous Tx | 0.001 %  | EMI6895     | PASS    |
| Low channel / 40°C/ 3.7Vdc   | Continuous Tx | 0.001 %  | EMI6932     | PASS    |
| Low channel / 40°C/ 4.2Vdc   | Continuous Tx | 0.001 %  | EMI6933     | PASS    |
| Low channel / 40°C/ 3.45Vdc  | Continuous Tx | 0.001 %  | EMI6934     | PASS    |
| Mid channel / 40°C/ 3.7Vdc   | Continuous Tx | 0.001 %  | EMI6935     | PASS    |
| Mid channel / 40°C/ 4.2Vdc   | Continuous Tx | 0.001 %  | EMI6936     | PASS    |
| Mid channel / 40°C/ 3.45Vdc  | Continuous Tx | 0.001 %  | EMI6937     | PASS    |
| High channel / 40°C/ 3.7Vdc  | Continuous Tx | 0.001 %  | EMI6938     | PASS    |
| High channel / 40°C/ 4.2Vdc  | Continuous Tx | 0.001 %  | EMI6939     | PASS    |
| High channel / 40°C/ 3.45Vdc | Continuous Tx | 0.001 %  | EMI6940     | PASS    |

| LABORATORY PARAMETERS:                                                                | REQUIRED PRIOR TO THE TEST | DURING THE TEST |
|---------------------------------------------------------------------------------------|----------------------------|-----------------|
| Ambient Temperature                                                                   | 15 to 35 °C                | 22.1 °C         |
| Relative Humidity                                                                     | 20 to 75 %                 | 47.3 %          |
| Atmospheric pressure                                                                  | N/A                        | 999 hPa         |
| <b>Test method deviation:</b> N/A                                                     |                            |                 |
| Supplementary information: EUT power supply is replaced by a stabilized power supply. |                            |                 |

| TEST EQUIPMENT USED    |                     |               |            |            |            |
|------------------------|---------------------|---------------|------------|------------|------------|
| CATEGORY               | BRAND               | TYPE          | IDENTIFIER | CAL. DATE  | CAL. DUE   |
| Attenuator             | Radiall             | R412710124    | 17328      | 22/06/2020 | 22/08/2023 |
| Attenuator             | Radiall             | R412710124    | 17329      | 22/06/2020 | 22/08/2023 |
| Cable                  | N                   | 3m            | 16417      | 04/05/2019 | 04/07/2021 |
| Cable                  | Huber + Suhner      | SF102K        | 16041      | 28/02/2019 | 28/04/2021 |
| Cable                  | Radiall             | SMA-0,5m      | 14890      | 17/06/2020 | 17/08/2022 |
| Climatic enclosure     | CLIMATS             | EXCAL 7714-HA | 14261      | 19/09/2019 | 19/11/2020 |
| Multimeter             | FLUKE               | 8808A         | 12446      | 29/09/2020 | 29/11/2021 |
| Power supply           | TTI                 | PL303QMD      | 8496       |            |            |
| Receiver               | Rohde & Schwarz     | FPL1003       | 16027      | 14/08/2020 | 14/10/2021 |
| Thermo-Hygro-Baromètre | LUFFT               | OPUS 20       | 14563      | 11/12/2019 | 11/02/2021 |
| Thermohygrometer       | Testo               | 608-H2        | 12268      | 07/05/2020 | 07/07/2022 |
| Thermohygrometer       | Bioblock Scientific | Météostar     | 0963       | 25/01/2019 | 25/03/2021 |
| Wattmeter              | Rohde & Schwarz     | HMC 8015      | 17005      | 05/03/2020 | 05/05/2021 |

Blank cells = Permanent validity



| FREQUENCY ERROR - TABULATED RESULTS |                 |                 |         |             |
|-------------------------------------|-----------------|-----------------|---------|-------------|
| TEST CASE                           | FREQUENCY       | FREQUENCY ERROR | LIMIT   | RESULT TAB. |
| Low channel / 25°C/ 3.7Vdc          | 2.403950470 GHz | 0 %             | 0.001 % | EMI6793     |
| Low channel / 25°C/ 4.2Vdc          | 2.403950490 GHz | 0.0000057 %     | 0.001 % | EMI6794     |
| Low channel / 25°C/ 3.45Vdc         | 2.403950484 GHz | 0.0000094 %     | 0.001 % | EMI6795     |
| Mid channel / 25°C/ 3.7Vdc          | 2.439949987 GHz | 0 %             | 0.001 % | EMI6796     |
| Mid channel / 25°C/ 4.2Vdc          | 2.439949920 GHz | 0.0000011 %     | 0.001 % | EMI6797     |
| Mid channel / 25°C/ 3.45Vdc         | 2.439949880 GHz | 0.0000022 %     | 0.001 % | EMI6798     |
| High channel / 25°C/ 3.7Vdc         | 2.475949258 GHz | 0 %             | 0.001 % | EMI6799     |
| High channel / 25°C/ 4.2Vdc         | 2.475949224 GHz | 0.0000012 %     | 0.001 % | EMI6800     |
| High channel / 25°C/ 3.45Vdc        | 2.475949147 GHz | 0.0000008 %     | 0.001 % | EMI6801     |
| Low channel / -5°C/ 3.7Vdc          | 2.403950281 GHz | 0.0001475 %     | 0.001 % | EMI6887     |
| Low channel / -5°C/ 4.2Vdc          | 2.403950279 GHz | 0.0001481 %     | 0.001 % | EMI6888     |
| Low channel / -5°C/ 3.45Vdc         | 2.403950332 GHz | 0.0001493 %     | 0.001 % | EMI6889     |
| Mid channel / -5°C/ 3.7Vdc          | 2.439949563 GHz | 0.0001626 %     | 0.001 % | EMI6890     |
| Mid channel / -5°C/ 4.2Vdc          | 2.439949577 GHz | 0.0001625 %     | 0.001 % | EMI6891     |
| Mid channel / -5°C/ 3.45Vdc         | 2.439949627 GHz | 0.0001637 %     | 0.001 % | EMI6892     |
| High channel / -5°C/ 3.7Vdc         | 2.475948863 GHz | 0.0001689 %     | 0.001 % | EMI6893     |
| High channel / -5°C/ 4.2Vdc         | 2.475948864 GHz | 0.0001687 %     | 0.001 % | EMI6894     |
| High channel / -5°C/ 3.45Vdc        | 2.475948916 GHz | 0.00017 %       | 0.001 % | EMI6895     |
| Low channel / 40°C/ 3.7Vdc          | 2.403945679 GHz | 0.0003317 %     | 0.001 % | EMI6932     |
| Low channel / 40°C/ 4.2Vdc          | 2.403945671 GHz | 0.0003316 %     | 0.001 % | EMI6933     |
| Low channel / 40°C/ 3.45Vdc         | 2.403945647 GHz | 0.000337 %      | 0.001 % | EMI6934     |
| Mid channel / 40°C/ 3.7Vdc          | 2.439944857 GHz | 0.0003178 %     | 0.001 % | EMI6935     |
| Mid channel / 40°C/ 4.2Vdc          | 2.439944876 GHz | 0.0003178 %     | 0.001 % | EMI6936     |
| Mid channel / 40°C/ 3.45Vdc         | 2.439944855 GHz | 0.0003196 %     | 0.001 % | EMI6937     |
| High channel / 40°C/ 3.7Vdc         | 2.475944101 GHz | 0.0003122 %     | 0.001 % | EMI6938     |
| High channel / 40°C/ 4.2Vdc         | 2.475944096 GHz | 0.0003121 %     | 0.001 % | EMI6939     |
| High channel / 40°C/ 3.45Vdc        | 2.475944085 GHz | 0.0003150 %     | 0.001 % | EMI6940     |

End of test report