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EMITECH MONTPELLIER laboratory
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RADIO TEST REPORT

KDB 996369 D04 Module Integration Guide v02
FCC 47 CFR PART 15: September 2025
RSS-GEN, Issue 5: April 2018 / AMD1: 2019 / AMD2: 2021
(Partial Tests)

Company : **TELECOM DESIGN S.A.**
Address..... : 2 BIS RUE NULLY DE HARCOURT
33610 CANEJAN
FRANCE

Test item description..... : **Smartwatch**
Trade Mark..... : TELECOM DESIGN
Manufacturer..... : TELECOM DESIGN S.A.
FCC ID..... : 2AGMK-WTC11
IC..... : 21552-WTC11
Model/Type reference..... : TD-WTC-11/IKARYA WATCH
Ratings..... : 4.2Vdc to 3.7Vdc

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

Report Reference No. : **RR-EVE-26A556-1A**
Test procedure..... : FCC IC Certification
Diffusion..... : Mr FARADI Tarik
Applicant's name..... : TELECOM DESIGN S.A.
Date of issue..... : June 4, 2026
Total number of pages..... : 60
Revision..... : 0
Compiled by..... : Alexis TOUZET
Approved by (+ signature)..... : Olivier AELBRECHT (Technical 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	June 4, 2026	/	Creation

1. GENERAL INFORMATION

This document submits the results of Radio tests performed on the equipment **Ikarya watch TD-WTC-11** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed in §2 of this test report.

TESTING PROCEDURE AND TESTING LOCATION:					
Testing Location: EMITECH MONTPELLIER laboratory Address: 145 rue de Massacan 34740 VENDARGUES FRANCE Test procedure: FCC IC Certification Tested by: Alexis TOUZET Test supervisor: None Date of receipt of test item: N/A Date (s) of performance of tests: From February the 18 th to the 20 th of 2026					
APPLICANT'S GENERAL INFORMATIONS:					
Company name: TELECOM DESIGN S.A. Company address: 2 BIS RUE NULLY DE HARCOURT 33610 CANEJAN FRANCE Person(s) present during the tests: Mr FARADI Tarik Responsible: Mr FARADI Tarik					
GENERAL REMARKS:					
The information in italics is declared by the manufacturer and is under his responsibility The test results presented in this report relate only to the object tested. 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. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report the decimal separator is point.					
POSSIBLE TEST CASE VERDICTS:					
Test case does not apply to the test object.: N/A Test case not performed.....: N/P Test object does meet the requirement.....: P (Pass) Test object does not meet the requirement.: F (Fail)					
DEFINITIONS AND ABBREVIATIONS:					
E.U.T.	Equipment Under Test	AE	Ancillary Equipment	Pk	Peak detector
RBW	Resolution BandWidth	VBW	Video BandWidth	QP	Quasi-peak detector
FSOATS	Free Space Open Area Test Site	FAR	Full Anechoic Room	Av	Average detector
VP	Vertical Polarization	HP	Horizontal Polarization	RMS	Root Mean Square
RF	Radio Frequency	N.T.R	Nothing To Report	N/C	Not Communicated
SAC	Semi Anechoic Chamber				

2. REFERENCE DOCUMENT(S)

NORMATIVE REFERENCES:

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

KDB 996369 D04 Module Integration Guide v02

Modular transmitter integration guide - Guidance for host product manufacturers

FCC 47 CFR PART 15: September 2025

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

FCC 47 CFR PART 22: December 2025 (*)

Code of federal regulations - Title 47 telecommunication - Part 22 - Public mobile services.

FCC 47 CFR PART 24: December 2025 (*)

Code of federal regulations – Title 47 telecommunication - Part 24 - Personal Communications Services

FCC 47 CFR PART 27: December 2025 (*)

Code of federal regulations – Title 47 telecommunication - Part 27 - Miscellaneous Wireless Communications Services

FCC 47 CFR PART 90: December 2025 (*)

Code of federal regulations – Title 47 telecommunication - Part 90 - Private Land Mobile Radio Services

RSS-GEN, Issue 5: April 2018 / AMD1: 2019 / AMD2: 2021

General Requirements for Compliance of Radio Apparatus

RSS-130, Issue 2: February 2019

Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz

RSS-132, Issue 4: January 2023

Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz

RSS-133, Issue 7: July 2024

2 GHz Personal Communications Services

RSS-139, Issue 4: September 2022

Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz

ANSI C63.10: 2020

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

ANSI C63.26: 2015

American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

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.: Smartwatch

Model/Type reference.....: TD-WTC-11/IKARYA WATCH

Trade Mark.....: TELECOM DESIGN

Serial number (S/N).....: 2D99 FESB
2D99 FDSP

Part number (P/N).....: Not communicated

Software version.....: 3574

Firmware version.....: *Not communicated*

Type of sample.....: Standard equipment

Function(s).....: This wearable protection follows the senior indoors and outdoors, whether in the street, in stores or even in the forest. No need for a mobile phone or an app, communications are sent directly from the watch via the highly reliable "NbloT" network. Also, the Ikarya Watch measures and analyzes activity data to help the wearer stay in shape. It allows seniors to set daily activity goals: number of steps, distance traveled, recommended daily activity time, etc. Once the activity data has been collected, he and his loved ones can consult it from a mobile application and/or on a transmitter installed at home.

Manufacturer name.....: TELECOM DESIGN S.A.

Address.....: 2 BIS RUE NULLY DE HARCOURT
33610 CANEJAN
FRANCE

General product information:
N/A

3.2. E.U.T. Marking plate



3.3. E.U.T. General view



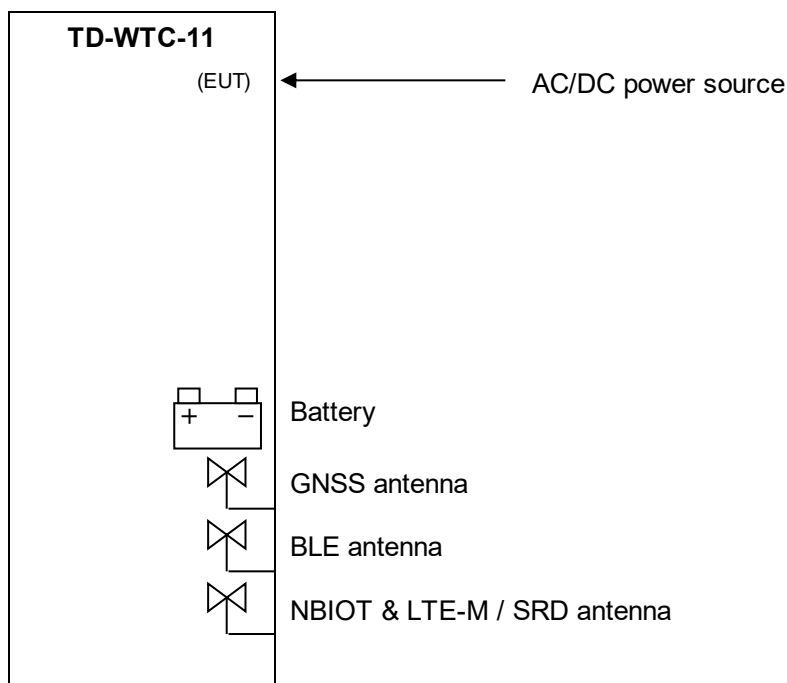
3.4. E.U.T. Mechanical and Electrical Design

Power supply.....	5Vdc Battery charging 4.2Vdc Internal battery
Power supply range.....	5Vdc +/- 10% for battery charging 4.2Vdc to 3.7Vdc Internal battery
Power type.	Internal Battery
Power (W).	Not communicated
Nominal current (A).	Not communicated
Dimensions (L x W x H) (m).	Not communicated
Weight (kg).	Not communicated
Temperature range (°C).....	-10 to +55
Ground bounding strap.....	No

Comments:

N/A

3.5. E.U.T. Input/Output ports



PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/E	N/A	Metallic & Plastic	N/A
1	AC/DC power source	AC/DC	<3m	2P	120Vac/60Hz to 5Vdc
2	Battery	DC	N/A	2P	4.2Vdc
3	GNSS antenna	RF	N/A	N/A	N/A
4	BLE antenna	RF	N/A	N/A	N/A
5	NBIOT & LTE-M / SRD antenna	RF	N/A	N/A	N/A

AC/DC : AC/DC Converter port

I/O Input or Output port

N/E..... Non Electrical port

AC..... Alternative current port

TP Telecommunication port

DC Direct current port

RF..... Radio frequency 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
Phantom arm	SPEAG	SHO-GFPC-V1	Used to simulate wearing the watch on the arm
Fonctionnal Radio Communication Tester	Rohde & Schwarz	CMW290	15619 / Used to initiate EUT's LTE FDD communication

PHANTOM ARM (AE)



CMW 290 (AE)



3.7. EUT Radio Specifications

a) GENERAL INFORMATIONS	
According to manufacturer's declarations :	
EUT type.....	Transceiver
Technology.....	BLE / LTE-M & NbloT / SRD / GNSS
Environmental profile.....	Data transmission
Temperature range	-20°C to +55°C
Antenna type	Integral
Antenna Gain.....	-6 dBi
Comments:	
<i>EUT was tested in two configurations: Without the phantom arm (LP mode) and with phantom (wearing / standard configuration)</i>	
<i>EUT includes an RF module already certified, see appropriates tests report for full testing results.</i>	
FCC ID: HSW-TY1SCDM (approval date: 09/27/2024)	
IC: 4492A-TY1SCDM (approval date: 12/02/2024)	
b) TRANSMITTER PARAMETERS (Tx)	
Frequency bands	LTE-M & NbloT: Band 2: 1850MHz to 1910MHz Band 3: 1710MHz to 1785MHz Band 4: 1710MHz to 1755MHz Band 5: 824MHz to 849MHz Band 8: 880MHz to 915MHz Band 12: 699MHz to 716MHz Band 13: 777MHz to 787MHz Band 28: 703MHz to 748MHz
RF Power	Not communicated
Number of channels / Separation	Not communicated
Modulation type	QPSK
Duty cycle.....	Not communicated
Tested frequency	LTE-M & NbloT: Band 2: 1880MHz Band 3: 1747.5MHz Band 4: 1732.5MHz Band 5: 836.5MHz Band 8: 897.5MHz Band 12: 707.5MHz Band 13: 782MHz Band 28: 725.5MHz
c) RECEIVER PARAMETERS (Rx)	
Frequency bands	Band 2: 2110MHz to 2170MHz Band 3: 1805MHz to 1880MHz Band 4: 2110MHz to 2155MHz Band 5: 869MHz to 894MHz Band 8: 925MHz to 960MHz Band 12: 729MHz to 746MHz Band 13: 746MHz to 756MHz Band 28: 758MHz to 803MHz
Bandwidth	Not communicated

4. RESULT SUMMARY

TEST DESIGNATION	SEVERITY	VERDICT	BASIC STANDARDS / COMMENTS
Conducted emissions measurement		N/A	The radio parts are not operational when the EUT is charging. Please refer to the EMC test report for Conducted emission measurement results.
Radiated spurious emissions measurement			ANSI C63.10: 2020 ANSI C63.26: 2015
- Radiated measurement / LTE-M + NB-IoT All Bands / All Positions / 9kHz to 30MHz / 0°	15.209	PASS	
- Radiated measurement / LTE-M + NB-IoT All Bands / All Positions / 9kHz to 30MHz / 45°	15.209	PASS	
- Radiated measurement / LTE-M + NB-IoT All Bands / All Positions / 9kHz to 30MHz / 90°	15.209	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 2 / All Positions / 30MHz to 1GHz	24.238	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 3 / All Positions / 30MHz to 1GHz	-	For information	Customer's requested
- Radiated measurement / LTE-M & NB-IoT Band 4 / All Positions / 30MHz to 1GHz	27.53	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 5 / All Positions / 30MHz to 1GHz	22.917	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 8 / All Positions / 30MHz to 1GHz	-	For information	Customer's requested
- Radiated measurement / LTE-M & NB-IoT Band 12 / All Positions / 30MHz to 1GHz	27.53	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 13 / All Positions / 30MHz to 1GHz	27.53	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 28 / All Positions / 30MHz to 1GHz	-	For information	Customer's requested
- Radiated measurement / LTE-M & NB-IoT Band 2 / All Positions / 1GHz to 18GHz	24.238	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 3 / All Positions / 1GHz to 18GHz	-	For information	Customer's requested
- Radiated measurement / LTE-M & NB-IoT Band 4 / All Positions / 1GHz to 18GHz	27.53	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 5 / All Positions / 1GHz to 10GHz	22.917	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 8 / All Positions / 1GHz to 10GHz	-	For information	Customer's requested
- Radiated measurement / LTE-M & NB-IoT Band 12 / All Positions / 1GHz to 10GHz	27.53	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 13 / All Positions / 1GHz to 10GHz	27.53	PASS	
- Radiated measurement / LTE-M & NB-IoT Band 28 / All Positions / 1GHz to 10GHz	-	For information	Customer's requested
Maximum peak power of the intentional radiator			ANSI C63.26: 2015
- EIRP / LTE-M & NB-IoT Band 2 / All Positions	2 W (33 dBm)	PASS	
- EIRP / LTE-M & NB-IoT Band 3 / All Positions	-	For information	Customer's requested
- EIRP / LTE-M & NB-IoT Band 4 / All Positions	1 W (30 dBm)	PASS	
- EIRP / LTE-M & NB-IoT Band 5 / All Positions	7 W (38.5 dBm)	PASS	
- EIRP / LTE-M & NB-IoT Band 8 / All Positions	-	For information	Customer's requested
- EIRP / LTE-M & NB-IoT Band 12 / All Positions	3 W (34.8 dBm)	PASS	
- EIRP / LTE-M & NB-IoT Band 13 / All Positions	3 W (34.8 dBm)	PASS	
- EIRP / LTE-M & NB-IoT Band 28 / All Positions	-	For information	Customer's requested

Sample subject to the test complies for tests done 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 into account of uncertainty associated with the results with the exception of emission tests based on CISPR standards.

TEST(S) PERFORMED	MODIFICATION(S)
ANSI C63.26: 2015	N/A
ANSI C63.10: 2020 ANSI C63.26: 2015	N/A

5. MEASUREMENT UNCERTAINTY

PARAMETER	MAXIMAL EMITECH UNCERTAINTY	MINIMAL STANDARD UNCERTAINTY
Radio frequency	$\pm 1 \times 10^{-7}$	$\pm 1 \times 10^{-7}$
RF power, conducted		
RF power	$\pm 0.8\text{dB}$	$\pm 1 \text{ dB}$
Power spectral density	$\pm 2.7\text{dB}$	$\pm 3 \text{ dB}$
Occupied bandwidth		
RF power	$\pm 3.8 \%$	$\pm 5 \%$
Adjacent channel power	$\pm 1.6 \text{ dB}$	$\pm 3 \text{ dB}$
Sensitivity 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)		
$f \leq 1 \text{ GHz}$	$\pm 0.8 \text{ dB}$	$\pm 3 \text{ dB}$
$1 \text{ GHz} - 12.75 \text{ GHz}$	$\pm 1.6 \text{ dB}$	
Radiated power (ERP / EIRP / spurious)		
$f \leq 62.5 \text{ MHz}$	$\pm 5.2 \text{ dB}$	$\pm 6 \text{ dB}$
$62.5 \text{ MHz} - 1 \text{ GHz}$	$\pm 5.4 \text{ dB}$	$\pm 6 \text{ dB}$
$1 \text{ GHz} - 18 \text{ GHz}(\sim)$	$\pm 5.2 \text{ dB}$	$\pm 6 \text{ dB}$
$18 \text{ GHz} - 40 \text{ GHz}$	$\pm 5.8 \text{ dB}$	$\pm 6 \text{ dB}$
$40 \text{ GHz} - 110 \text{ GHz}$	$\pm 5.5 \text{ dB}$	Between ± 6 to 10 dB
EIRP and power spectral density with diode	$\pm 5.4 \text{ dB}$	$\pm 6 \text{ dB}$
Radiated emission (magnetic field)		
$9\text{kHz} - 30\text{MHz}$	$\pm 4,3 \text{ dB}$	$\pm 6 \text{ dB}$
RF level for a given BER	$\pm 0.8 \text{ dB}$	$\pm 1.5 \text{ dB}$
Supply voltages	$\pm 2,9 \%$	$\pm 3 \%$
Temperature	$\pm 0,95 \text{ }^{\circ}\text{C}$	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 4,6 \%$	$\pm 5 \%$
Time / Duty cycle	$\pm 4.4 \%$	$\pm 5 \%$
Adaptivity	$\pm 3.2 \text{ dB}$	/
Conducted emission (FCC)		
(Artificial Mains Network) $150\text{kHz} - 30\text{MHz}$	$\pm 3.7 \text{ dB}$	/
Radiated emission (electric field for FCC standard)		
$9\text{kHz} - 30\text{MHz}$	$\pm 4.3 \text{ dB}$	/
$30\text{MHz} - 1\text{GHz}$	$\pm 5.9 \text{ dB}$	/
$1\text{GHz} - 18\text{GHz}$	$\pm 4,8 \text{ dB}$	/
$18\text{GHz} - 40\text{GHz}$	$\pm 5,9 \text{ dB}$	/
$40\text{GHz} - 140\text{GHz}$	$\pm 5.7 \text{ dB}$	/

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

6. TEST CONDITIONS AND RESULTS

6.1. Radiated spurious emissions measurement

Reference standard:	FCC 47 CFR PART 15.209 & 24.238(*) & 27.53(*) & 22.917(*) RSS-Gen; RSS-132 & RSS-130 & RSS-133 & RSS-139
Test method:	ANSI C63.10: 2020 ANSI C63.26: 2015
Test description: - For $f < 30\text{MHz}$, EUT is set on an insulating support at 80cm above the ground reference plane. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter in a semi-anechoic chamber. The EUT was rotated 360° in order to maximize radiated levels. Test antenna was oriented in 3 axes (0°, 45° and 90°). 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. - For $30\text{MHz} < f < 1\text{GHz}$, EUT is set on an insulating support at 80cm above the ground reference plane. 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. 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. - For $f > 1\text{GHz}$, EUT is set on an insulating support at 150cm above the ground reference plane. RF Absorbent material are placed between EUT and measurement antenna. Final measurements (Peak or average) were then performed in a Full Anechoic Room (FAR) that complies to CISPR 16. The EUT was rotated 360° about its azimuth and the receive antenna height is 150cm. All frequencies were investigated, where applicable. For portable equipments: - For frequencies $< 1\text{GHz}$ a research of maximum level is done on 3 axes - For frequencies $> 1\text{GHz}$ styrofoam wedges, precut to the 30°, 60°, and 90° angles, are used to support the EUT in the 6 different orientations.	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Radiated measurement / LTE-M + NB-IoT All Bands / All Positions / 9kHz to 30MHz / 0°	9kHz-30MHz	15.209	EMI4651	PASS
Radiated measurement / LTE-M + NB-IoT All Bands / All Positions / 9kHz to 30MHz / 45°	9kHz-30MHz	15.209	EMI4652	PASS
Radiated measurement / LTE-M + NB-IoT All Bands / All Positions / 9kHz to 30MHz / 90°	9kHz-30MHz	15.209	EMI4653	PASS
Radiated measurement / LTE-M & NB-IoT Band 2 / All Positions / 30MHz to 1GHz	30MHz-1GHz	24.238	EMI4601	PASS
Radiated measurement / LTE-M & NB-IoT Band 3 / All Positions / 30MHz to 1GHz	30MHz-1GHz	-	EMI4602	FOR INFORMATION
Radiated measurement / LTE-M & NB-IoT Band 4 / All Positions / 30MHz to 1GHz	30MHz-1GHz	27.53	EMI4603	PASS
Radiated measurement / LTE-M & NB-IoT Band 5 / All Positions / 30MHz to 1GHz	30MHz-1GHz	22.917	EMI4604	PASS

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Radiated measurement / LTE-M & NB-IoT Band 8 / All Positions / 30MHz to 1GHz	30MHz-1GHz	-	EMI4605	FOR INFORMATION
Radiated measurement / LTE-M & NB-IoT Band 12 / All Positions / 30MHz to 1GHz	30MHz-1GHz	27.53	EMI4606	PASS
Radiated measurement / LTE-M & NB-IoT Band 13 / All Positions / 30MHz to 1GHz	30MHz-1GHz	27.53	EMI4607	PASS
Radiated measurement / LTE-M & NB-IoT Band 28 / All Positions / 30MHz to 1GHz	30MHz-1GHz	-	EMI4608	FOR INFORMATION
Radiated measurement / LTE-M & NB-IoT Band 2 / All Positions / 1GHz to 18GHz	1GHz-18GHz	24.238	EMI4623	PASS
Radiated measurement / LTE-M & NB-IoT Band 3 / All Positions / 1GHz to 18GHz	1GHz-18GHz	-	EMI4624	FOR INFORMATION
Radiated measurement / LTE-M & NB-IoT Band 4 / All Positions / 1GHz to 18GHz	1GHz-18GHz	27.53	EMI4625	PASS
Radiated measurement / LTE-M & NB-IoT Band 5 / All Positions / 1GHz to 10GHz	1GHz-10GHz	22.917	EMI4617	PASS
Radiated measurement / LTE-M & NB-IoT Band 8 / All Positions / 1GHz to 10GHz	1GHz-10GHz	-	EMI4619	FOR INFORMATION
Radiated measurement / LTE-M & NB-IoT Band 12 / All Positions / 1GHz to 10GHz	1GHz-10GHz	27.53	EMI4620	PASS
Radiated measurement / LTE-M & NB-IoT Band 13 / All Positions / 1GHz to 10GHz	1GHz-10GHz	27.53	EMI4621	PASS
Radiated measurement / LTE-M & NB-IoT Band 28 / All Positions / 1GHz to 10GHz	1GHz-10GHz	-	EMI4622	FOR INFORMATION

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)
Test method deviation: N/A		
Supplementary information: From 9kHz to 30MHz, limit indicated on the curves is calculated with 40 dB/decade extrapolation factor and 51.5 dB conversion factor.		
Above 30 MHz peak limit provided and applied to Cellular spurious was computed according to the formula : $Limit(dBm) = P(dBm) - (43 + 10 * \log(P(Watts)))$ with P equal to the minimum permissive License Digital System rf output power (1 Watt).		
The limit is then converted to dBμV/m using the formula: $E(dB\mu V/m) = EIRP(dBm) - 20 * \log(D(m)) + 104.8$ where D is the measurement distance in meters (3m) for Freq < 18GHz (1m) for Freq > 18GHz.		

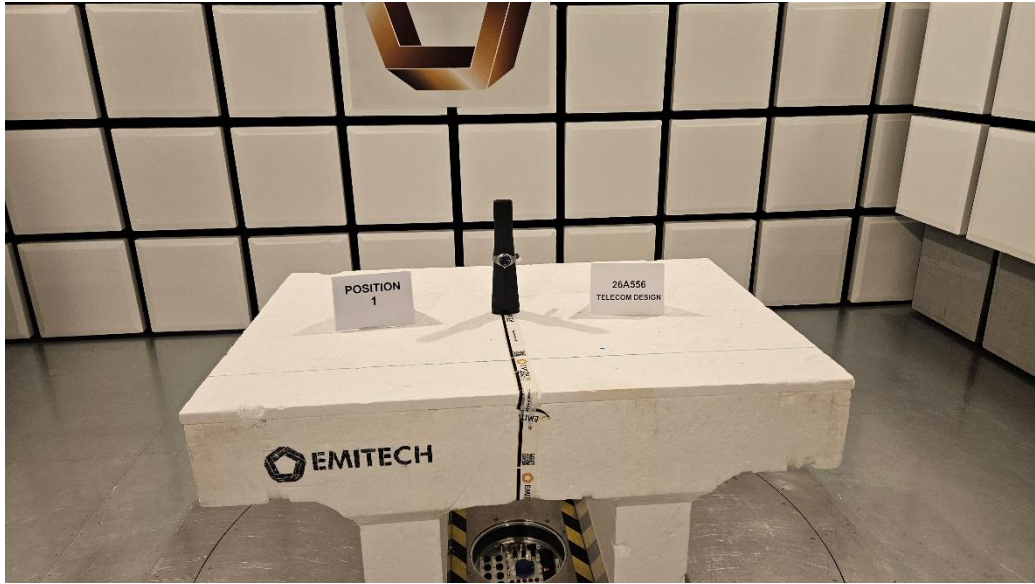
TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	ETS lindgren	3142E	14523	08/08/2025	08/10/2028
Antenna	ETS lindgren	3143B	17930	10/04/2025	10/06/2028
Antenna	Rohde & Schwarz	HFH2-Z2	5825	25/04/2025	25/06/2027
Antenna	AARONIA	Powerlog 70180	15306	04/01/2023	04/03/2026
Attenuator	EMITECH	SUB.V4-H	18112	03/06/2024	03/08/2027
Attenuator	EMITECH	SUB.V4-V	18111	03/06/2024	03/08/2027
Cable	Techniwave	N-2.5m	18350	17/08/2023	17/10/2026
Cable	Techniwave	N-4m	18355	17/08/2023	17/10/2026
Cable	Techniwave	N-1.5m	18341	13/10/2025	13/12/2027
Cable	Techniwave	N-1.5m	18342	20/05/2024	20/07/2026
Cable	Techniwave	N-1m	18344	10/07/2024	10/09/2026
Cable	/	N-1m	3624	09/06/2025	09/08/2027
Cable	/	N-1m	3625	09/06/2025	09/08/2027
Cable	Techniwave	N-3.5m	18352	11/09/2025	11/11/2027
Cable	Techniwave	N-3.5m	18353	11/09/2025	11/11/2027
Cable	SUCOFLEX	N-3m	14379	01/09/2025	01/11/2027
Cable	SUCOFLEX	N-6,5m	14380	17/08/2023	17/10/2026
Cable	Techniwave	N-8m	18349 ⁽¹⁾	17/08/2023	17/04/2026
Filter	Micro-Tronics	HPM15162	19385	25/03/2024	25/05/2026
Filter	Micro-Tronics	HPM18865	12843	03/12/2024	03/02/2028
Preamplifier	Techniwave	APS16-0087	14040	15/09/2025	15/11/2026
Receiver	Rohde & Schwarz	ESW26	17791	04/09/2025	04/11/2026
Receiver	Rohde & Schwarz	ESW8	19536	13/08/2025	13/10/2027
Shielded enclosure	COMTEST	C.V4	18014	05/11/2024	05/01/2028
Shielded enclosure	COMTEST	SAC 3m	14494	08/08/2023	08/10/2026
Software	Nexio	BAT EMC	0000		
Thermohygrometer	LUFFT	OPUS 20	17844	05/06/2025	05/08/2026
Thermohygrometer	Testo	608-H2	12268	18/02/2025	18/04/2027
Thermohygrometer	Testo	608-H2	12269	18/02/2025	18/04/2027

BAT-EMC software version: V3.18.0.26

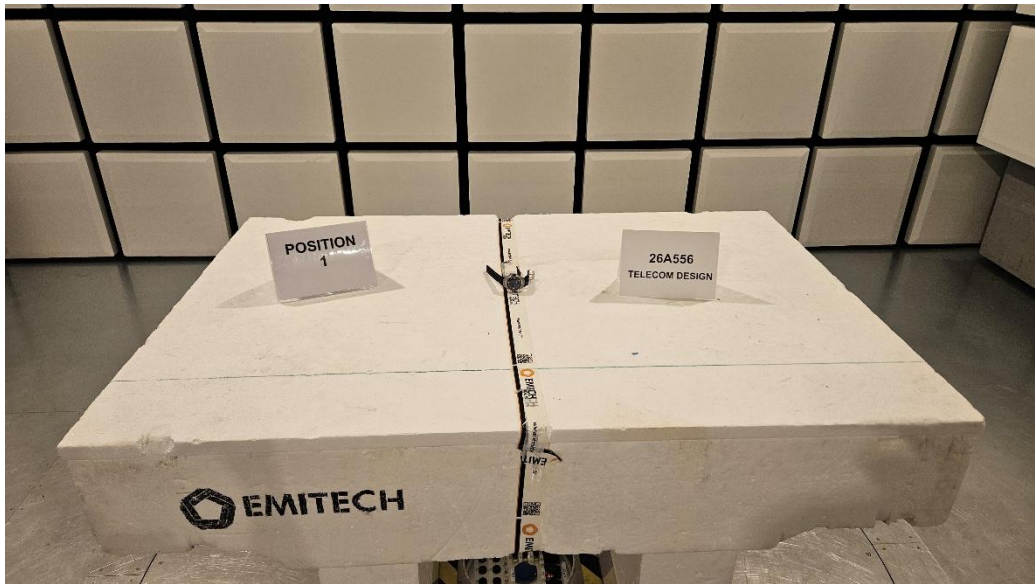
Blank cells = Permanent validity

⁽¹⁾ Under derogation "EQSDER000S4100156"

TEST SETUP PHOTO(S) - RADIATED MEASUREMENT – WITH PHANTOM ARM (STANDARD)



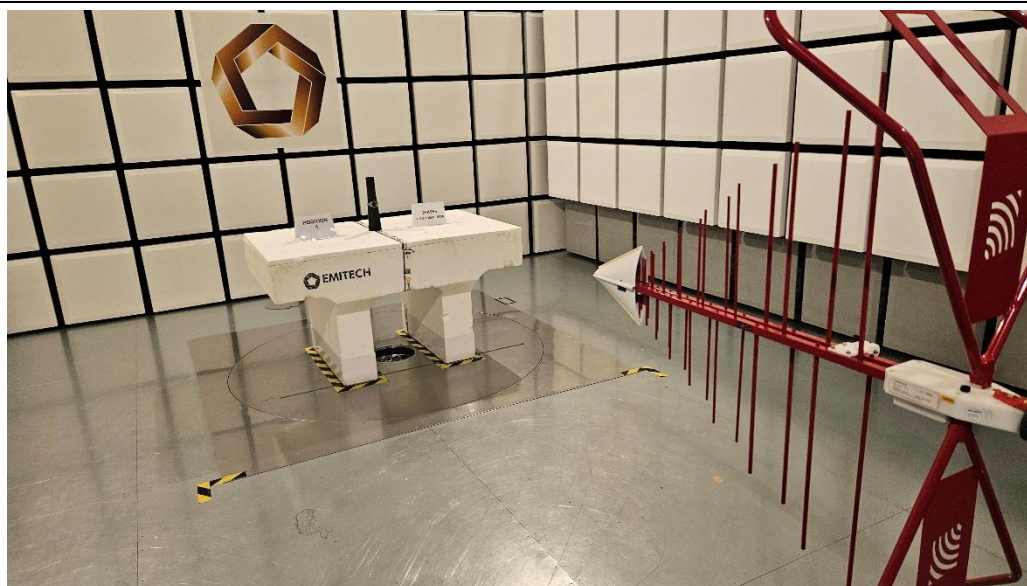
TEST SETUP PHOTO(S) - RADIATED MEASUREMENT – WITHOUT PHANTOM ARM (LP)



TEST SETUP PHOTO(S) - RADIATED MEASUREMENT – 9kHz TO 30MHz



TEST SETUP PHOTO(S) - RADIATED MEASUREMENT – 30MHz TO 1GHz



TEST SETUP PHOTO(S) - RADIATED MEASUREMENT – FOR FREQ >1GHZ

RADIATED SPURIOUS EMISSIONS – TABULATED RESULTS

RADIATED MEASUREMENT / LTE-M + NB-IoT ALL BANDS / ALL POSITIONS / 9kHz TO 30MHz / 0°					EMI4651
FREQUENCY (MHz)	PEAK LEVEL (dBμA/m)	AVERAGE LEVEL (dBμA/m)	QPEAK LEVEL (dBμA/m)	AVERAGE / QPEAK LIMIT (dBμA/m)	MARGING (dB)
0.014	-6.04	N/P	N/P	73.18	-79.22
0.028	-10.27	N/P	N/P	67.16	-77.43
0.034	-10.66	N/P	N/P	65.47	-76.13
0.069	-14.36	N/P	N/P	59.32	-73.68
0.134	-19.27	N/P	N/P	53.56	-72.83
0.264	-11.62	N/P	N/P	47.67	-59.29

Supplementary information: when margin between peak measurements and average or quasi-peak limit is >6dB, no average or quasi-peak measurements were performed.

RADIATED SPURIOUS EMISSIONS – TABULATED RESULTS

RADIATED MEASUREMENT / LTE-M + NB-IoT ALL BANDS / ALL POSITIONS / 9kHz TO 30MHz / 45°					EMI4652
FREQUENCY (MHz)	PEAK LEVEL (dBμA/m)	AVERAGE LEVEL (dBμA/m)	QPEAK LEVEL (dBμA/m)	AVERAGE / QPEAK LIMIT (dBμA/m)	MARGING (dB)
0.014	-4.08	N/P	N/P	73.18	-77.26
0.016	-5.93	N/P	N/P	72.02	-77.95
0.028	-10.62	N/P	N/P	67.16	-77.78
0.036	-10.67	N/P	N/P	64.98	-75.65
0.056	-15.87	N/P	N/P	61.14	-77.01
0.069	-16.19	N/P	N/P	59.32	-75.51

Supplementary information: when margin between peak measurements and average or quasi-peak limit is >6dB, no average or quasi-peak measurements were performed.

RADIATED SPURIOUS EMISSIONS – TABULATED RESULTS					
RADIATED MEASUREMENT / LTE-M + NB-IoT ALL BANDS / ALL POSITIONS / 9kHz TO 30MHz / 90°					EMI4653
FREQUENCY (MHz)	PEAK LEVEL (dBμA/m)	AVERAGE LEVEL (dBμA/m)	QPEAK LEVEL (dBμA/m)	AVERAGE / QPEAK LIMIT (dBμA/m)	MARGING (dB)
0.012	-5.52	N/P	N/P	74.52	-80.04
0.016	-7.26	N/P	N/P	72.02	-79.28
0.020	-10.16	N/P	N/P	70.08	-80.24
0.134	-20.51	N/P	N/P	53.56	-74.07
0.210	-12.54	N/P	N/P	49.66	-62.20
0.261	-11.22	N/P	N/P	47.77	-58.99
Supplementary information: when margin between peak measurements and average or quasi-peak limit is >6dB, no average or quasi-peak measurements were performed.					

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 2 / ALL POSITIONS / 30MHz TO 1GHz				EMI4601
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
30.87	Vertical	27.90	82.25	-54.35
34.14	Vertical	26.10	82.25	-56.15
36.60	Vertical	23.74	82.25	-58.51
533.71	Vertical	30.50	82.25	-51.75
778.83	Vertical	33.63	82.25	-48.62
936.75	Vertical	36.45	82.25	-45.80
30.45	Horizontal	27.40	82.25	-54.85
32.62	Horizontal	25.96	82.25	-56.29
34.27	Horizontal	24.88	82.25	-57.37
531.15	Horizontal	30.77	82.25	-51.48
693.92	Horizontal	33.80	82.25	-48.45
926.70	Horizontal	35.75	82.25	-46.50
Supplementary information: N/A				

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 3 / ALL POSITIONS / 30MHz TO 1GHz				EMI4602
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
30.39	Vertical	27.39	82.25	-54.86
38.25	Vertical	22.27	82.25	-59.98
50.21	Vertical	17.06	82.25	-65.19
523.07	Vertical	30.26	82.25	-51.99
688.49	Vertical	32.83	82.25	-49.42
868.17	Vertical	34.99	82.25	-47.26
32.68	Horizontal	26.35	82.25	-55.90
34.04	Horizontal	25.47	82.25	-56.78
37.86	Horizontal	22.50	82.25	-59.75
644.22	Horizontal	32.55	82.25	-49.70
720.18	Horizontal	33.62	82.25	-48.63
938.47	Horizontal	36.14	82.25	-46.11
Supplementary information: N/A				

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 4 / ALL POSITIONS / 30MHz TO 1GHz				EMI4603
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
32.10	Vertical	26.07	82.25	-56.18
34.62	Vertical	24.67	82.25	-57.58
37.63	Vertical	22.95	82.25	-59.30
536.68	Vertical	30.71	82.25	-51.54
686.61	Vertical	32.99	82.25	-49.26
926.67	Vertical	36.75	82.25	-45.50
30.97	Horizontal	27.22	82.25	-55.03
33.62	Horizontal	25.80	82.25	-56.45
36.63	Horizontal	23.96	82.25	-58.29
240.89	Horizontal	23.52	82.25	-58.73
534.93	Horizontal	31.67	82.25	-50.58
932.87	Horizontal	35.99	82.25	-46.26
Supplementary information: N/A				

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 5 / ALL POSITIONS / 30MHz TO 1GHz				EMI4604
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
30.29	Vertical	27.47	82.25	-54.78
35.66	Vertical	24.88	82.25	-57.37
87.59	Vertical	16.63	82.25	-65.62
601.64	Vertical	31.47	82.25	-50.78
728.81	Vertical	34.79	82.25	-47.46
936.88	Vertical	37.99	82.25	-44.26
31.71	Horizontal	26.98	82.25	-55.27
39.31	Horizontal	22.39	82.25	-59.86
59.59	Horizontal	16.61	82.25	-65.64
260.93	Horizontal	23.35	82.25	-58.90
628.93	Horizontal	32.67	82.25	-49.58
936.92	Horizontal	36.21	82.25	-46.04
Supplementary information: N/A				

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 8 / ALL POSITIONS / 30MHz TO 1GHz				EMI4605
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
32.91	Vertical	26.75	82.25	-55.50
77.66	Vertical	20.41	82.25	-61.84
84.22	Vertical	26.69	82.25	-55.56
758.75	Vertical	34.49	82.25	-47.76
797.30	Vertical	35.08	82.25	-47.17
932.62	Vertical	37.00	82.25	-45.25
36.69	Horizontal	23.92	82.25	-58.33
58.71	Horizontal	16.80	82.25	-65.45
88.95	Horizontal	25.94	82.25	-56.31
645.10	Horizontal	32.50	82.25	-49.75
690.79	Horizontal	33.26	82.25	-48.99
936.82	Horizontal	36.54	82.25	-45.71
Supplementary information: N/A				

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 12 / ALL POSITIONS / 30MHz TO 1GHz				EMI4606
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
30.94	Vertical	27.01	82.25	-55.24
35.85	Vertical	24.59	82.25	-57.66
39.93	Vertical	20.53	82.25	-61.72
628.28	Vertical	32.48	82.25	-49.77
800.63	Vertical	34.92	82.25	-47.33
944.74	Vertical	36.48	82.25	-45.77
31.39	Horizontal	27.33	82.25	-54.92
36.34	Horizontal	24.18	82.25	-58.07
57.97	Horizontal	16.88	82.25	-65.37
526.56	Horizontal	30.41	82.25	-51.84
796.78	Horizontal	35.01	82.25	-47.24
936.88	Horizontal	37.45	82.25	-44.80
Supplementary information: N/A				

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 13 / ALL POSITIONS / 30MHz TO 1GHz				EMI4607
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
31.62	Vertical	26.95	82.25	-55.30
70.90	Vertical	18.66	82.25	-63.59
85.32	Vertical	30.85	82.25	-51.40
524.65	Vertical	30.70	82.25	-51.55
695.64	Vertical	33.39	82.25	-48.86
936.88	Vertical	36.59	82.25	-45.66
32.26	Horizontal	29.64	82.25	-52.61
37.05	Horizontal	23.81	82.25	-58.44
42.93	Horizontal	19.83	82.25	-62.42
561.71	Horizontal	30.23	82.25	-52.02
607.49	Horizontal	31.63	82.25	-50.62
936.85	Horizontal	38.61	82.25	-43.64
Supplementary information: N/A				

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 28 / ALL POSITIONS / 30MHz TO 1GHz				EMI4608
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	PEAK LIMIT (dBµV/m)	MARGING (dB)
32.04	Vertical	25.80	82.25	-56.45
35.76	Vertical	24.04	82.25	-58.21
46.88	Vertical	18.39	82.25	-63.86
633.68	Vertical	32.90	82.25	-49.35
758.88	Vertical	38.43	82.25	-43.82
932.68	Vertical	39.50	82.25	-42.75
32.00	Horizontal	27.85	82.25	-54.40
42.48	Horizontal	20.55	82.25	-61.70
71.23	Horizontal	15.71	82.25	-66.54
759.14	Horizontal	36.60	82.25	-45.65
800.63	Horizontal	37.15	82.25	-45.10
932.65	Horizontal	38.09	82.25	-44.16
Supplementary information: N/A				

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 2 / ALL POSITIONS / 1GHz TO 18GHz				EMI4623
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	PEAK LIMIT (dBµV/m)	MARGING (dB)
5640.09	Vertical	62.66	82.25	-19.59
7519.65	Vertical	51.71	82.25	-30.54
10651.26	Vertical	48.59	82.25	-33.66
13597.85	Vertical	49.33	82.25	-32.92
15025.40	Vertical	49.63	82.25	-32.62
17715.99	Vertical	54.82	82.25	-27.43
3760.03	Horizontal	66.28	82.25	-15.97
5640.09	Horizontal	49.96	82.25	-32.29
7520.15	Horizontal	47.71	82.25	-34.54
12500.32	Horizontal	47.44	82.25	-34.81
15025.90	Horizontal	47.02	82.25	-35.23
16043.43	Horizontal	47.73	82.25	-34.52
Supplementary information: N/A				

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 3 / ALL POSITIONS / 1GHz TO 18GHz				EMI4624
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	PEAK LIMIT (dBµV/m)	MARGING (dB)
3495.02	Vertical	68.64	82.25	-13.61
5242.57	Vertical	57.96	82.25	-24.29
8738.19	Vertical	51.29	82.25	-30.96
11246.77	Vertical	49.39	82.25	-32.86
13280.34	Vertical	49.58	82.25	-32.67
16933.96	Vertical	52.20	82.25	-30.05
3495.02	Horizontal	65.87	82.25	-16.38
5242.57	Horizontal	49.81	82.25	-32.44
9358.71	Horizontal	48.08	82.25	-34.17
11968.30	Horizontal	49.40	82.25	-32.85
15192.91	Horizontal	49.59	82.25	-32.66
17577.99	Horizontal	54.35	82.25	-27.90
Supplementary information: N/A				

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 4 / ALL POSITIONS / 1GHz TO 18GHz				EMI4625
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	PEAK LIMIT (dBµV/m)	MARGING (dB)
1065.34	Vertical	44.31	82.25	-37.94
1466.15	Vertical	43.84	82.25	-38.41
1541.95	Vertical	43.85	82.25	-38.40
3464.52	Vertical	69.99	82.25	-12.26
5197.07	Vertical	52.24	82.25	-30.01
8663.19	Vertical	54.60	82.25	-27.65
3464.52	Horizontal	64.88	82.25	-17.37
5197.57	Horizontal	50.17	82.25	-32.08
6930.13	Horizontal	46.86	82.25	-35.39
8894.20	Horizontal	47.48	82.25	-34.77
12513.32	Horizontal	49.22	82.25	-33.03
16477.45	Horizontal	51.44	82.25	-30.81
Supplementary information: N/A				

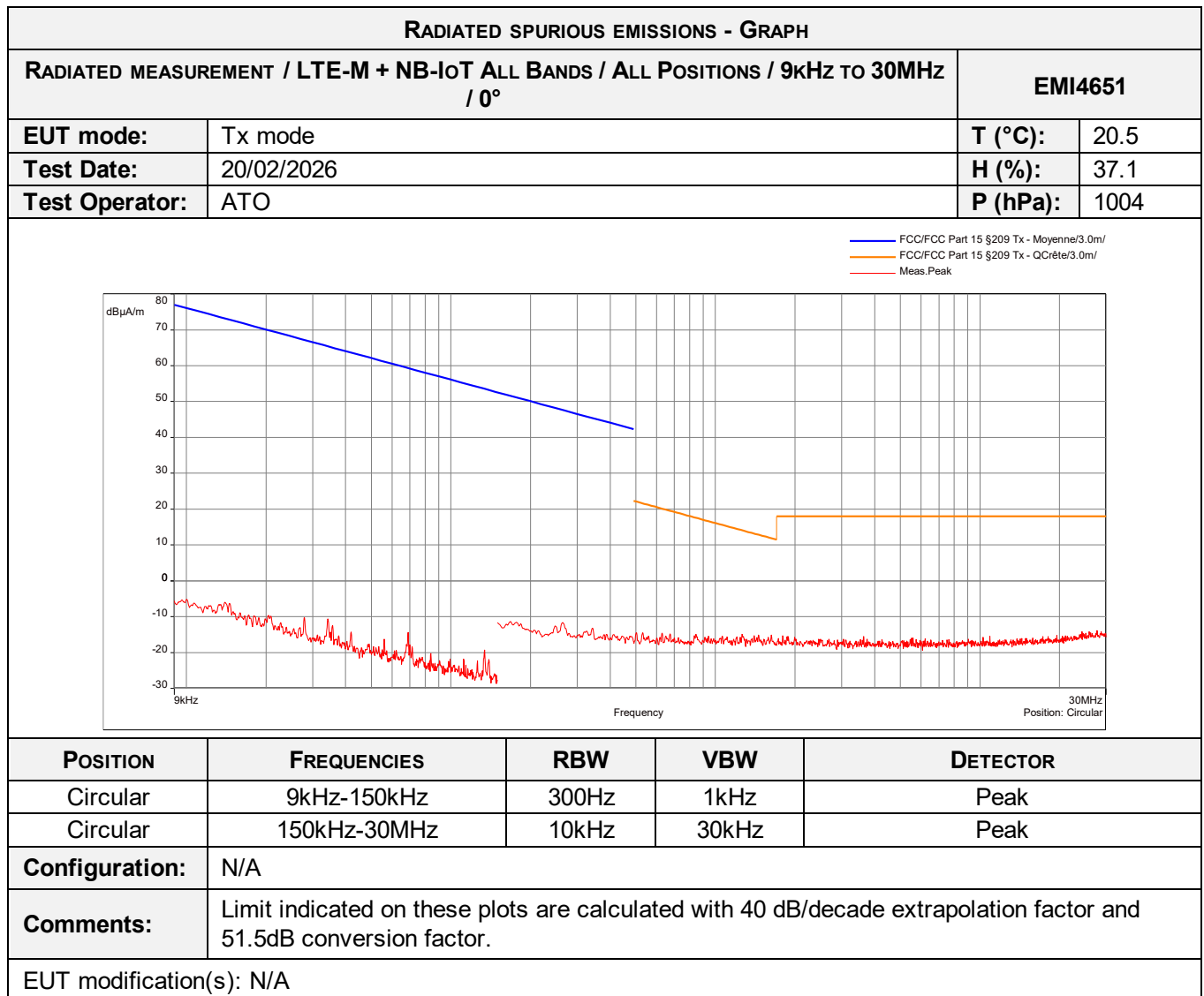
RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 5 / ALL POSITIONS / 1GHz TO 10GHz				EMI4617
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
1027.60	Vertical	38.39	82.25	-43.86
1720.32	Vertical	37.16	82.25	-45.09
3250.38	Vertical	39.22	82.25	-43.03
3898.40	Vertical	40.97	82.25	-41.28
5379.25	Vertical	41.86	82.25	-40.39
8624.75	Vertical	45.76	82.25	-36.49
1024.30	Horizontal	38.06	82.25	-44.19
1283.21	Horizontal	36.42	82.25	-45.83
1672.92	Horizontal	38.64	82.25	-43.61
2294.84	Horizontal	38.39	82.25	-43.86
3343.68	Horizontal	40.17	82.25	-42.08
3896.30	Horizontal	40.13	82.25	-42.12
Supplementary information: N/A				

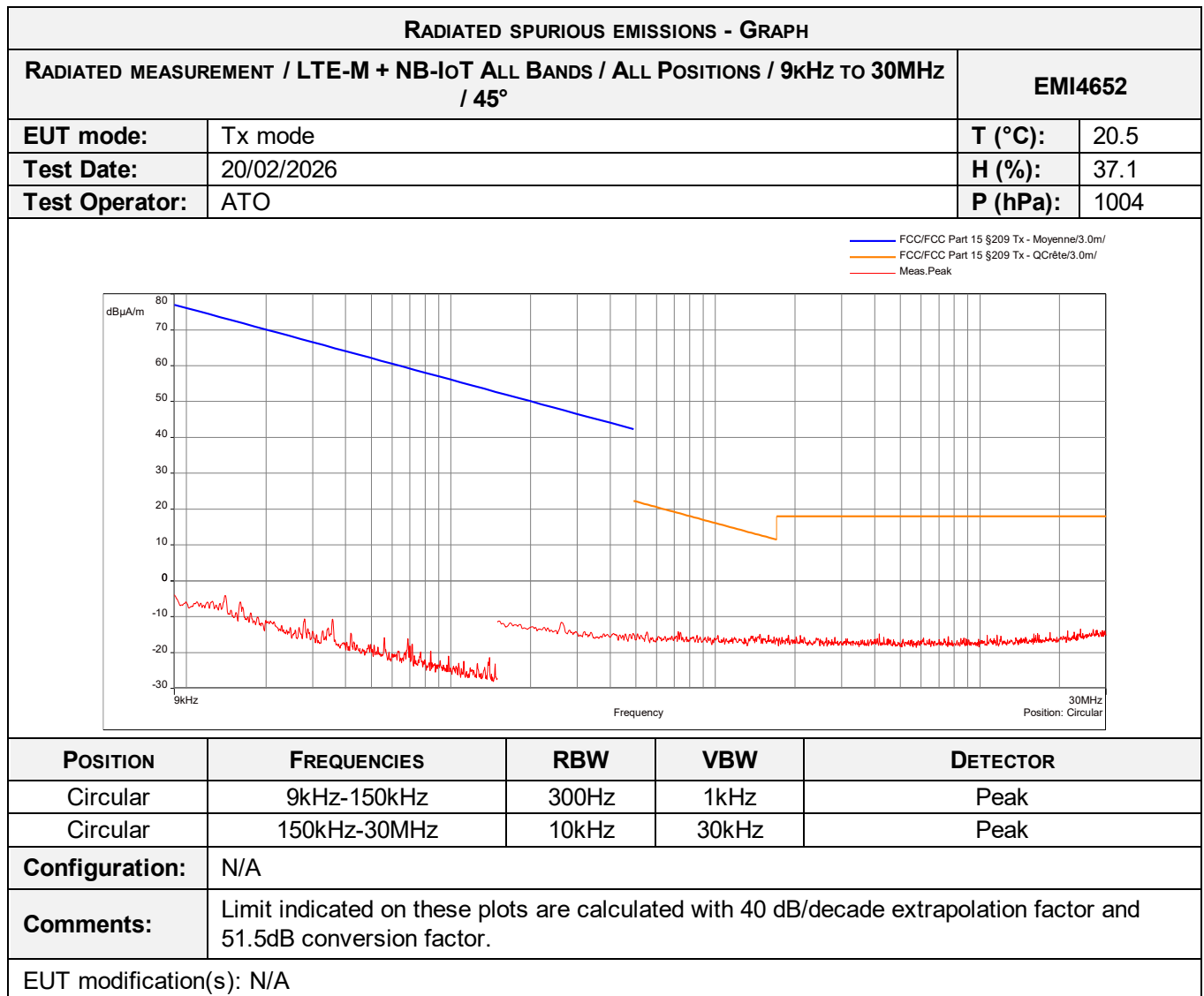
RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 8 / ALL POSITIONS / 1GHz TO 10GHz				EMI4619
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
1795.03	Vertical	40.24	82.25	-42.01
2621.55	Vertical	37.83	82.25	-44.42
3582.49	Vertical	39.25	82.25	-43.00
5561.05	Vertical	41.21	82.25	-41.04
7780.23	Vertical	43.76	82.25	-38.49
8486.15	Vertical	44.98	82.25	-37.27
1794.73	Horizontal	43.39	82.25	-38.86
2318.24	Horizontal	38.05	82.25	-44.20
2662.96	Horizontal	38.20	82.25	-44.05
3892.40	Horizontal	40.79	82.25	-41.46
7405.51	Horizontal	43.26	82.25	-38.99
8180.44	Horizontal	45.24	82.25	-37.01
Supplementary information: N/A				

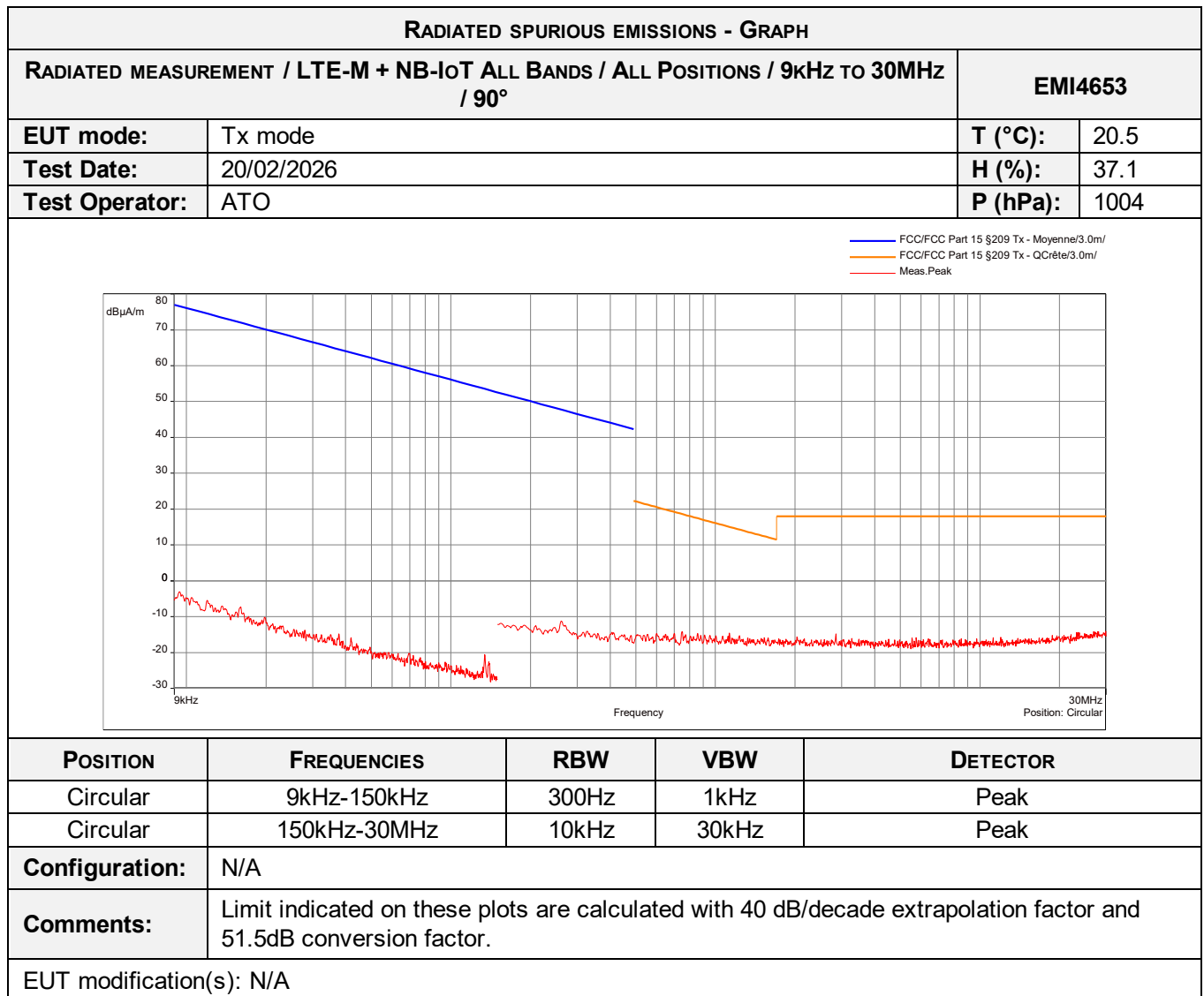
RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 12 / ALL POSITIONS / 1GHz TO 10GHz				EMI4620
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
1922.53	Vertical	39.49	82.25	-42.76
2310.14	Vertical	38.11	82.25	-44.14
3064.37	Vertical	39.51	82.25	-42.74
4532.02	Vertical	40.21	82.25	-42.04
4871.03	Vertical	40.91	82.25	-41.34
9019.57	Vertical	45.90	82.25	-36.35
1942.63	Horizontal	37.95	82.25	-44.30
2088.74	Horizontal	38.24	82.25	-44.01
3058.97	Horizontal	39.42	82.25	-42.83
5395.75	Horizontal	41.24	82.25	-41.01
8251.84	Horizontal	44.53	82.25	-37.72
9153.37	Horizontal	46.19	82.25	-36.06
Supplementary information: N/A				

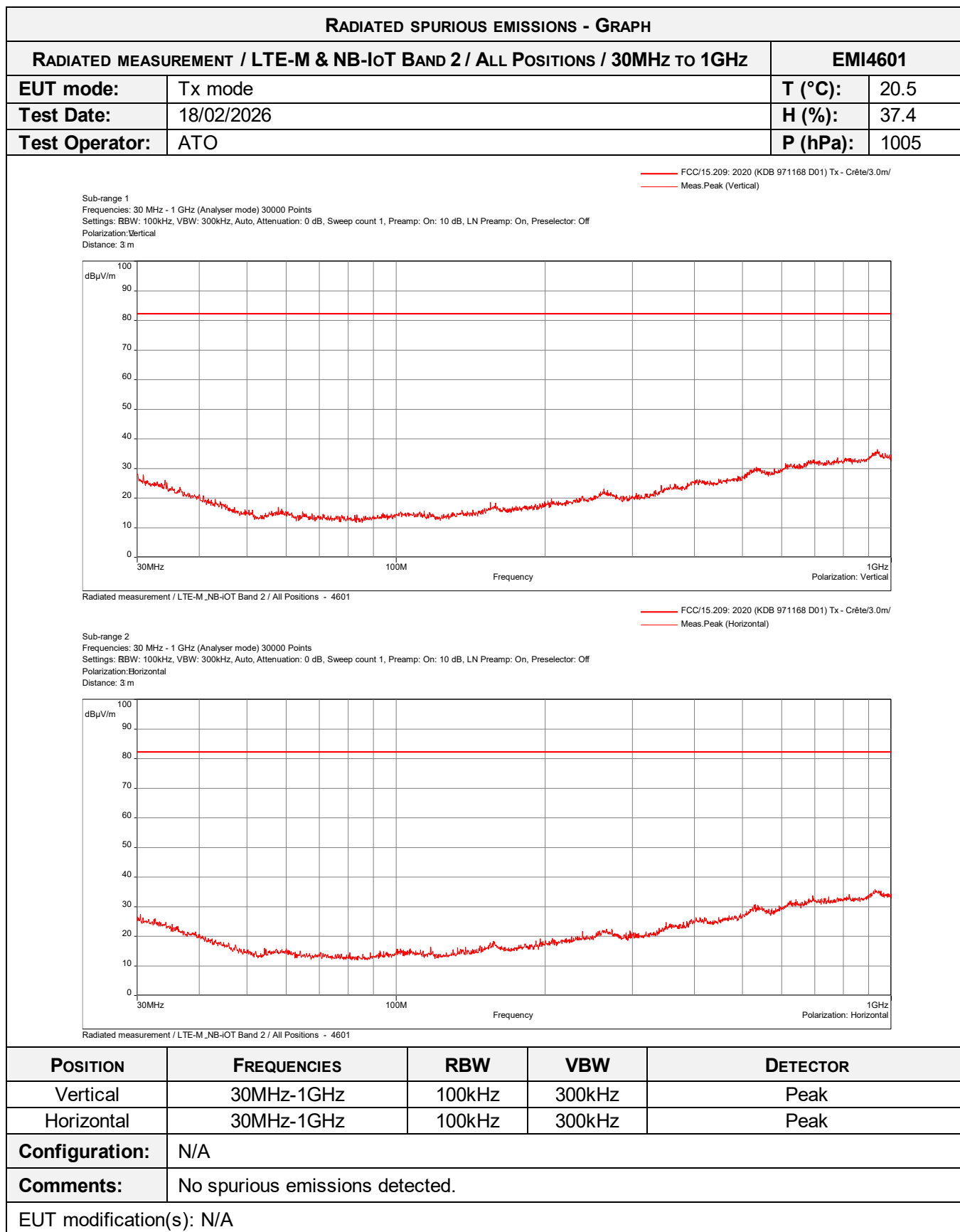
RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 13 / ALL POSITIONS / 1GHz TO 10GHz				EMI4621
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGING (dB)
1500.72	Vertical	37.56	82.25	-44.69
1669.62	Vertical	37.99	82.25	-44.26
1931.23	Vertical	38.64	82.25	-43.61
2346.14	Vertical	39.06	82.25	-43.19
5576.95	Vertical	41.84	82.25	-40.41
8472.95	Vertical	45.67	82.25	-36.58
1026.40	Horizontal	38.27	82.25	-43.98
1580.22	Horizontal	36.76	82.25	-45.49
2320.64	Horizontal	38.77	82.25	-43.48
3466.08	Horizontal	40.45	82.25	-41.80
5585.05	Horizontal	41.37	82.25	-40.88
9804.39	Horizontal	46.74	82.25	-35.51
Supplementary information: N/A				

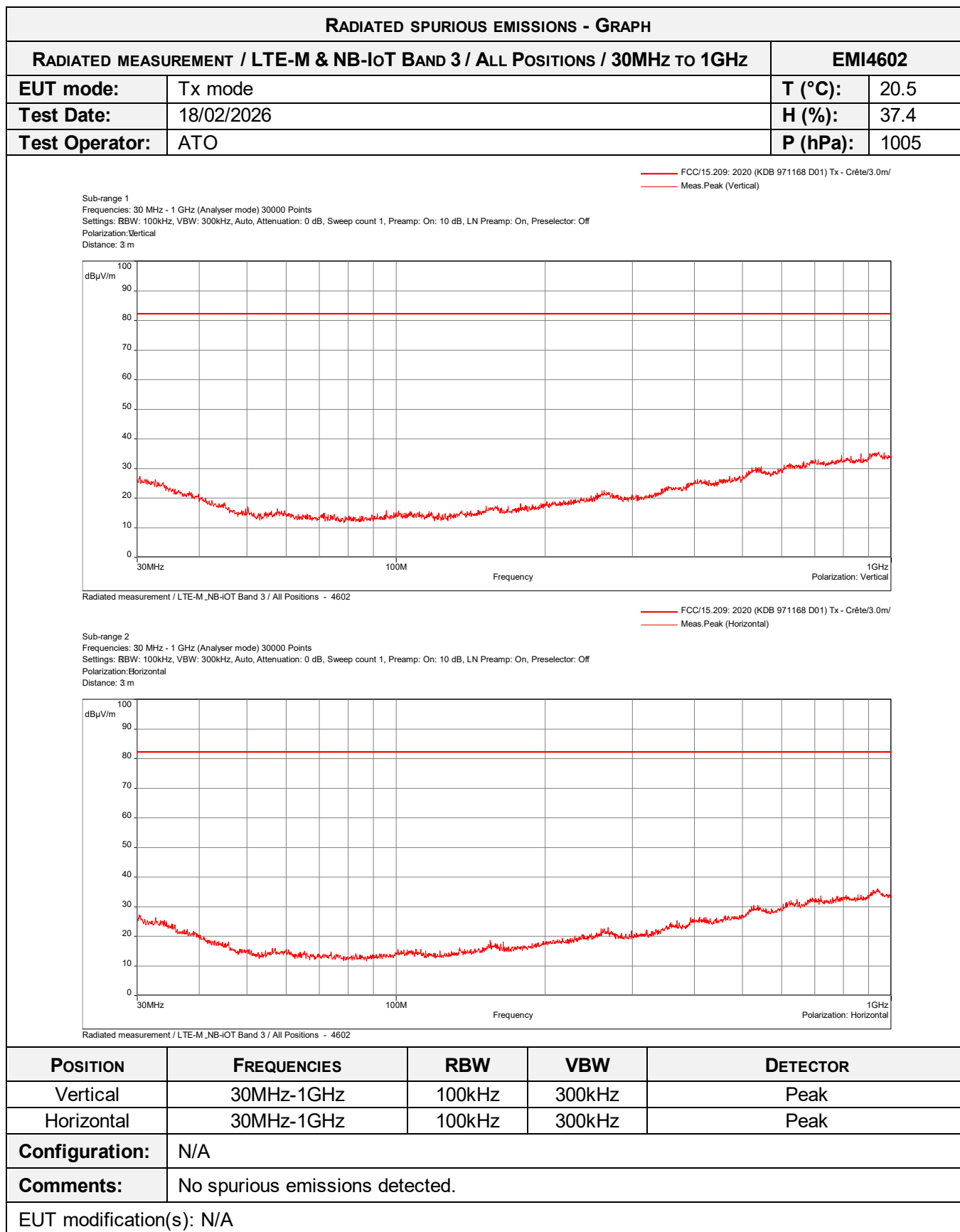
RADIATED EMISSION MEASUREMENT – TABULATED RESULTS				
RADIATED MEASUREMENT / LTE-M & NB-IoT BAND 28 / ALL POSITIONS / 1GHz TO 10GHz				EMI4622
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	MARGINING (dB)
2176.64	Vertical	42.82	82.25	-39.43
3496.08	Vertical	39.87	82.25	-42.38
4535.92	Vertical	40.40	82.25	-41.85
5190.24	Vertical	40.48	82.25	-41.77
8165.14	Vertical	45.08	82.25	-37.17
8508.95	Vertical	45.56	82.25	-36.69
2176.64	Horizontal	39.44	82.25	-42.81
3450.18	Horizontal	40.02	82.25	-42.23
4675.12	Horizontal	40.31	82.25	-41.94
6965.10	Horizontal	43.99	82.25	-38.26
9084.37	Horizontal	45.59	82.25	-36.66
9587.79	Horizontal	46.71	82.25	-35.54
Supplementary information: N/A				

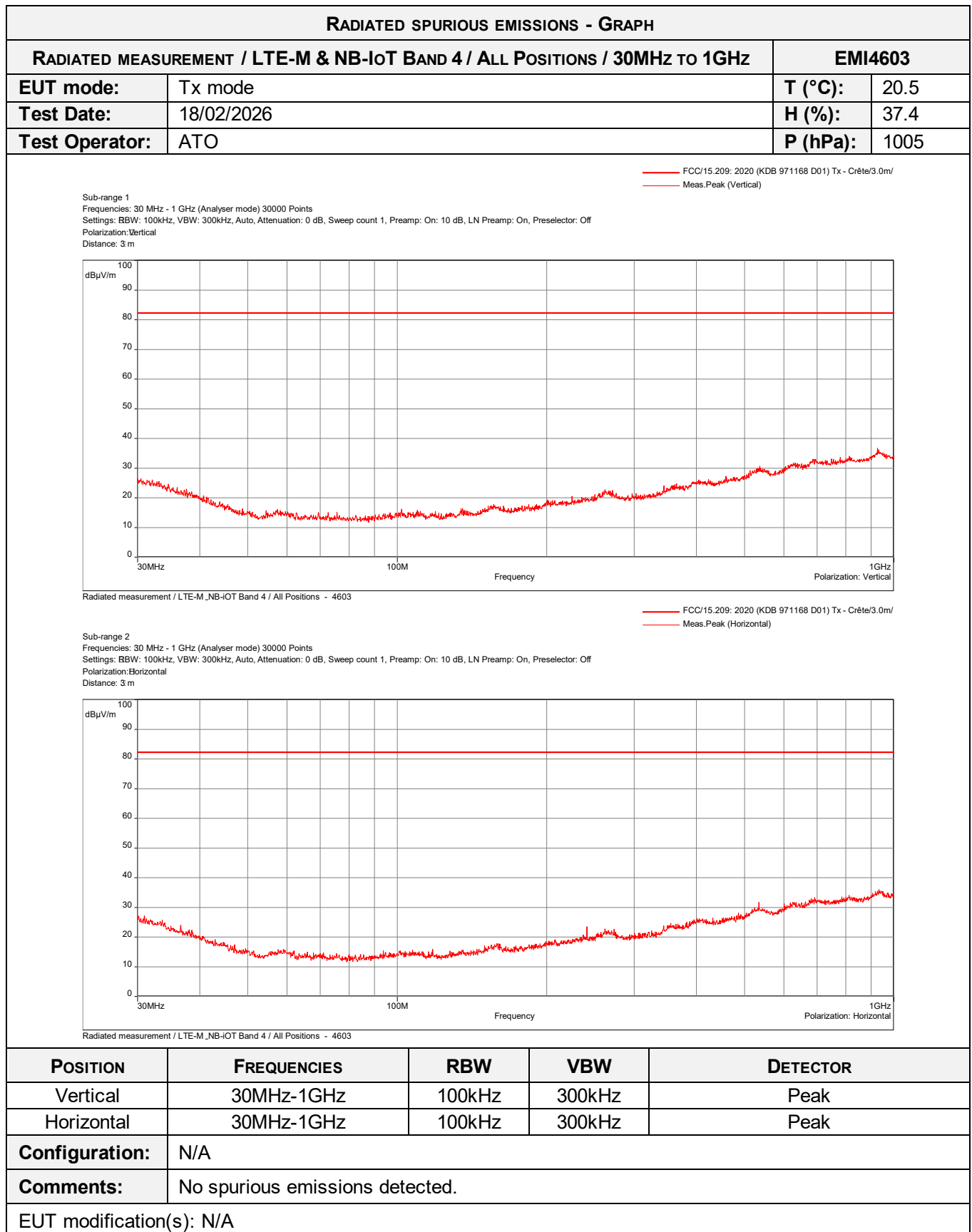


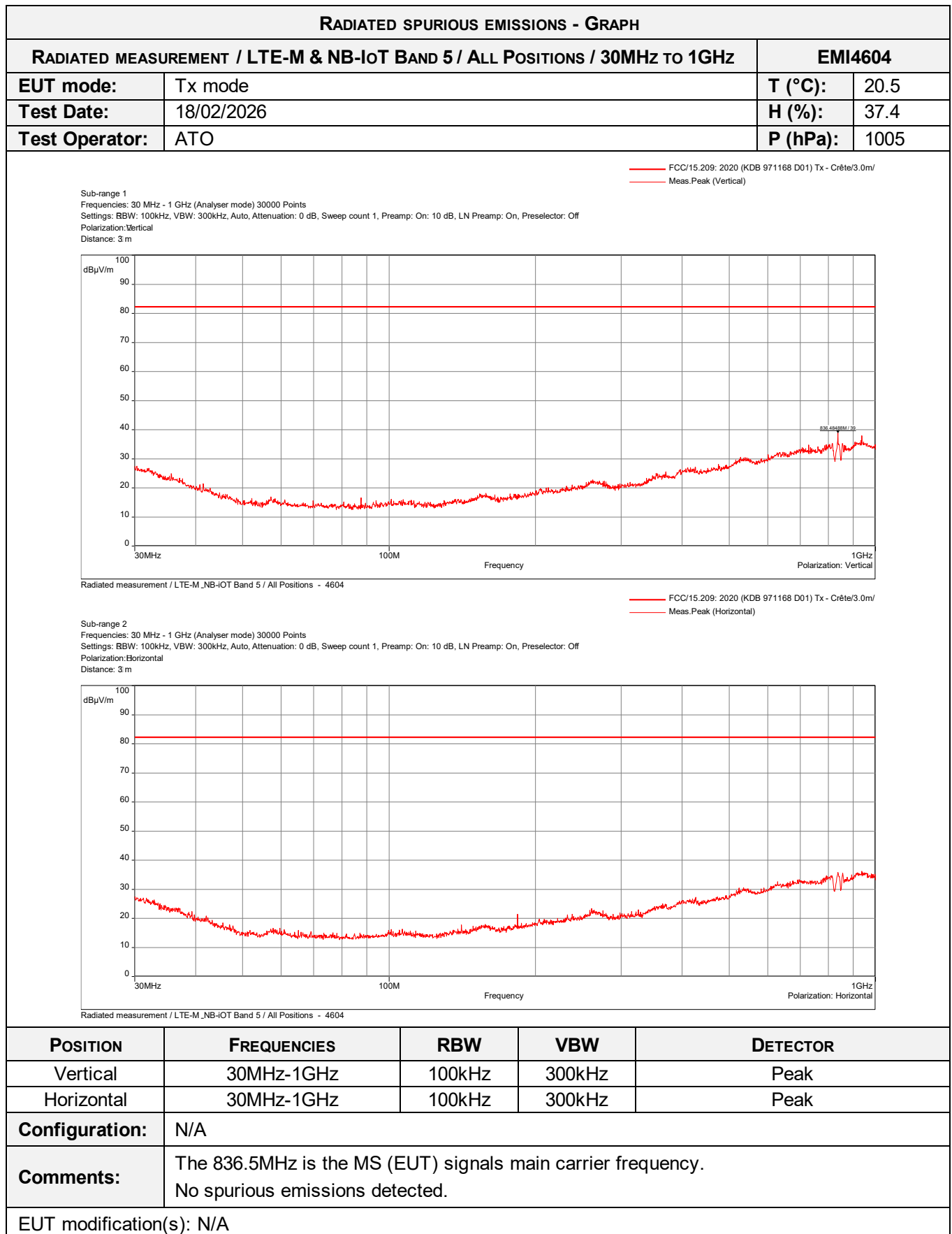


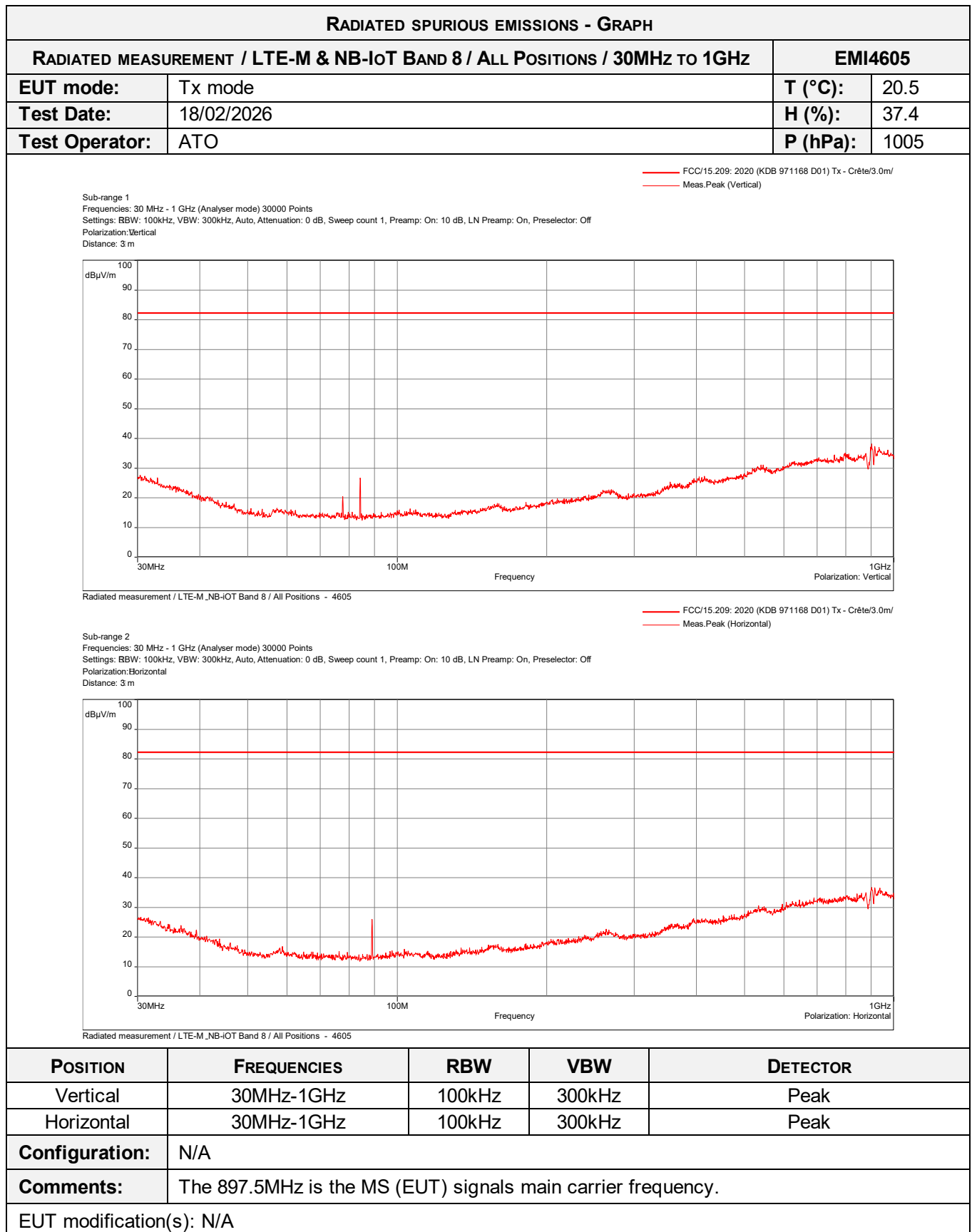


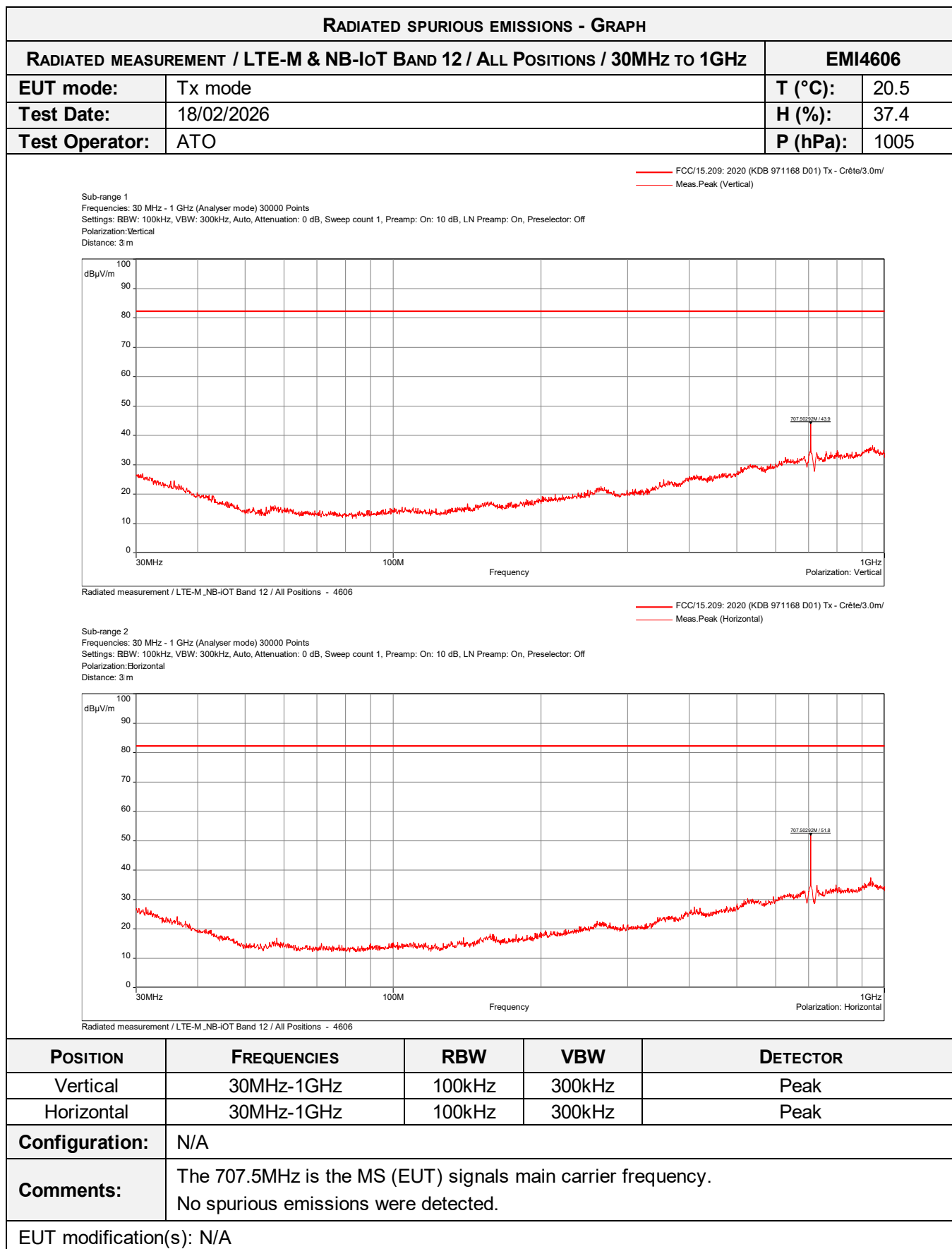


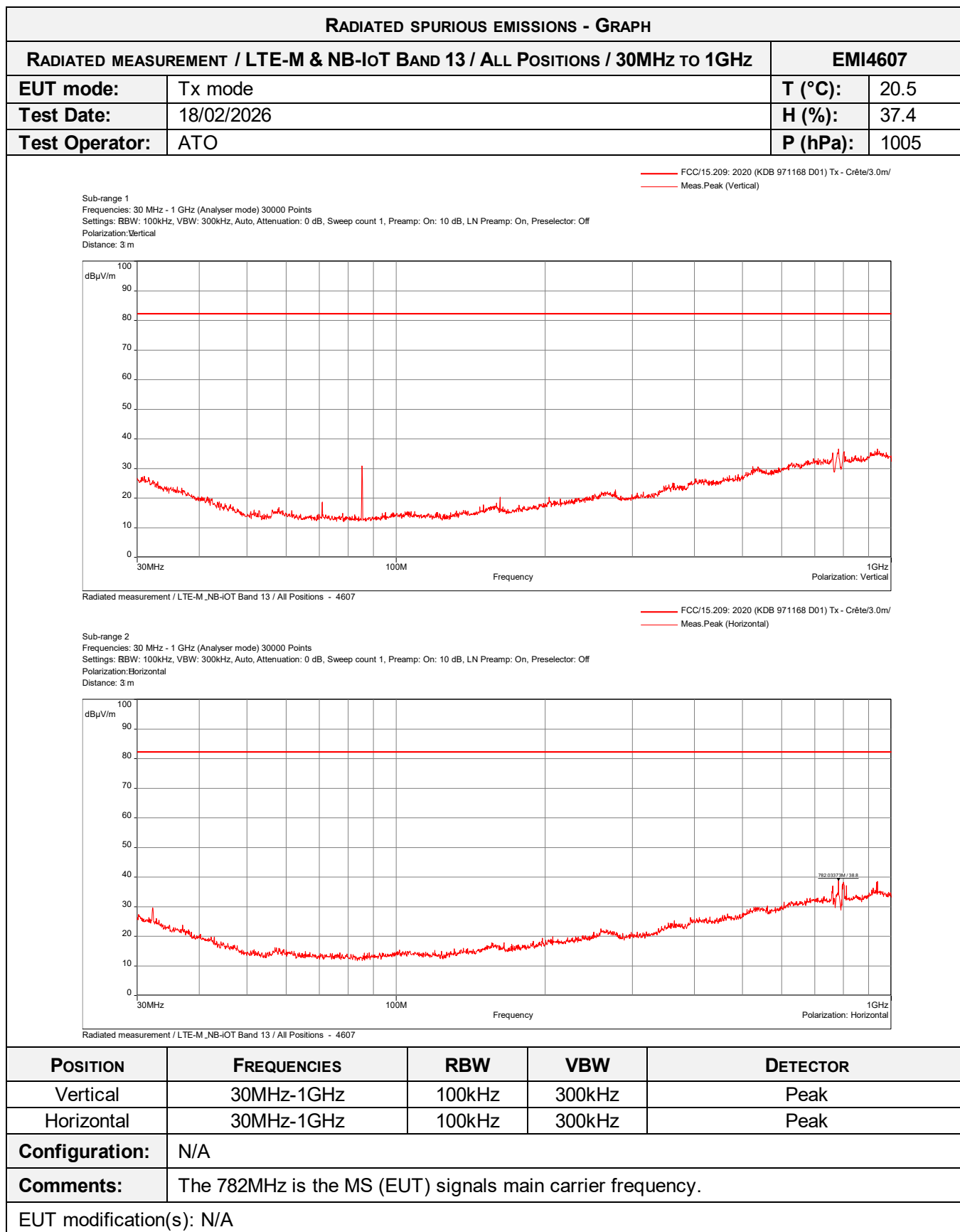


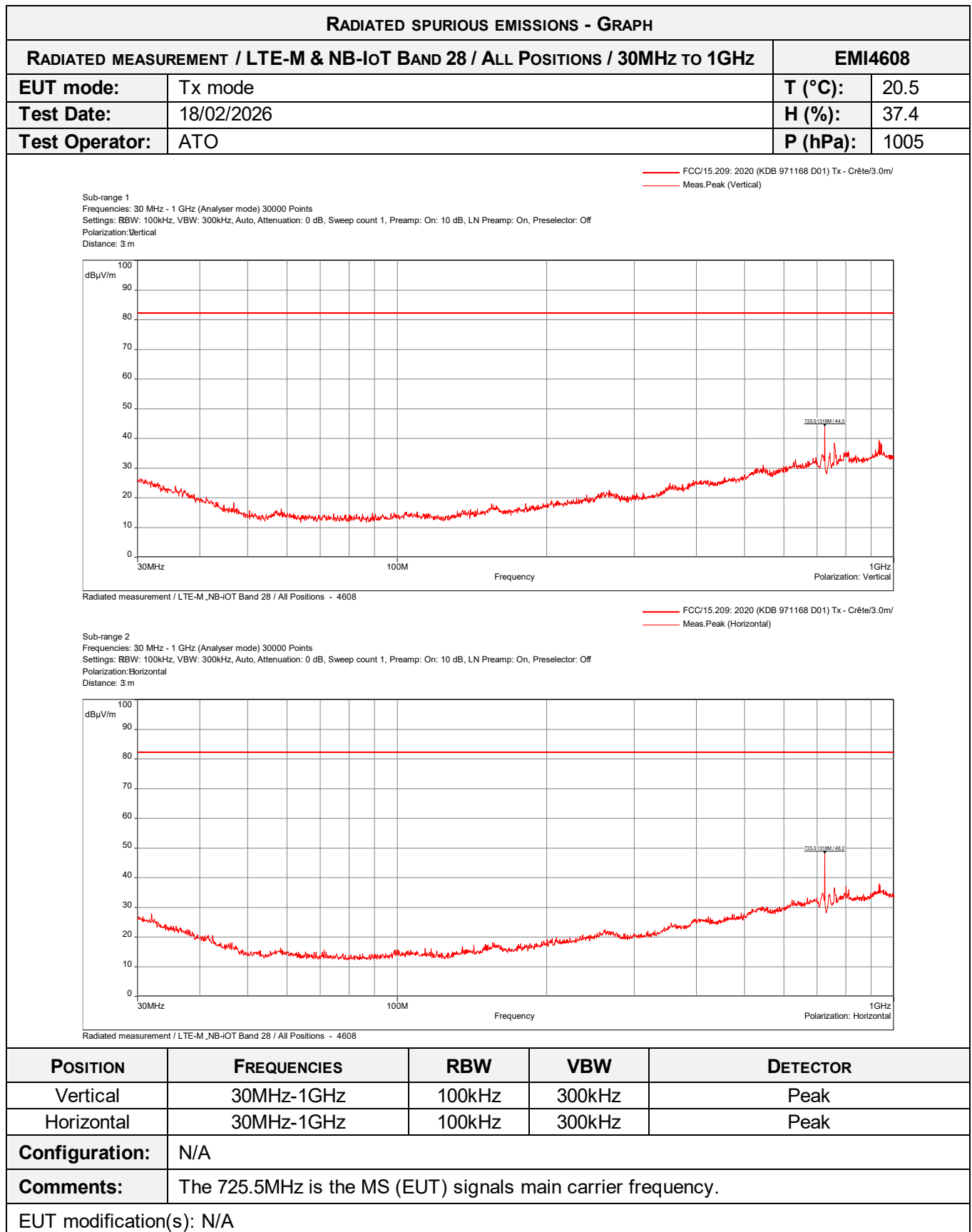


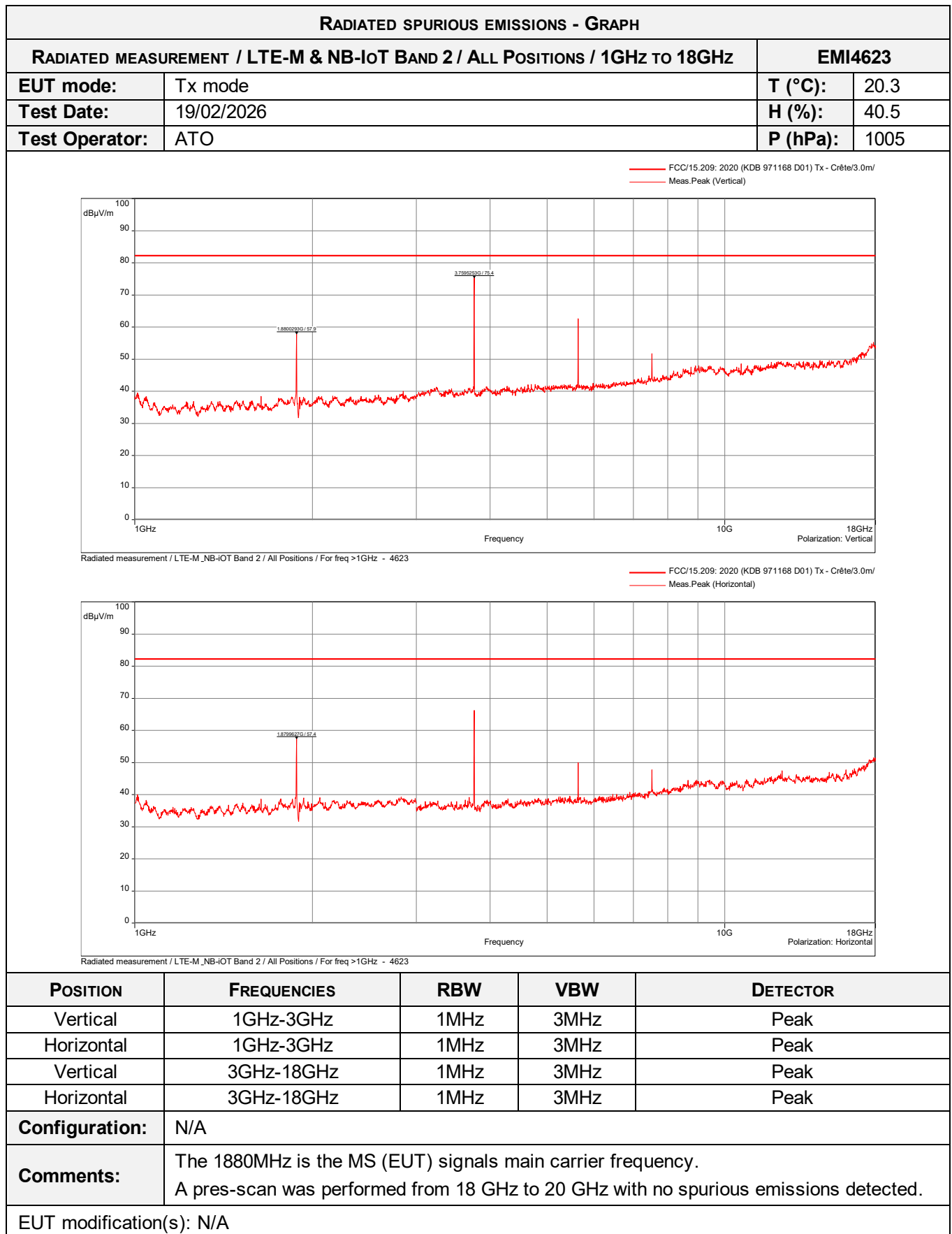


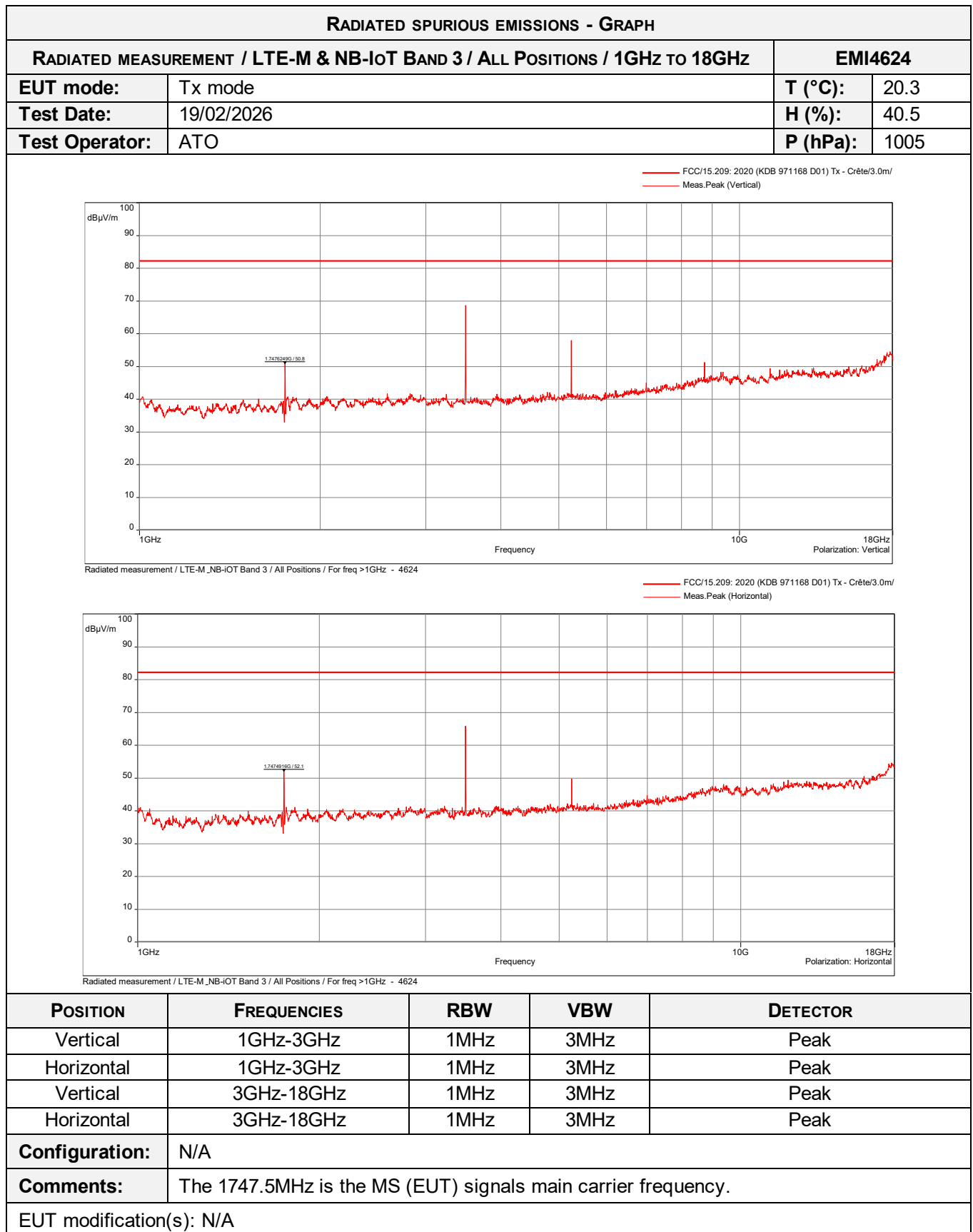


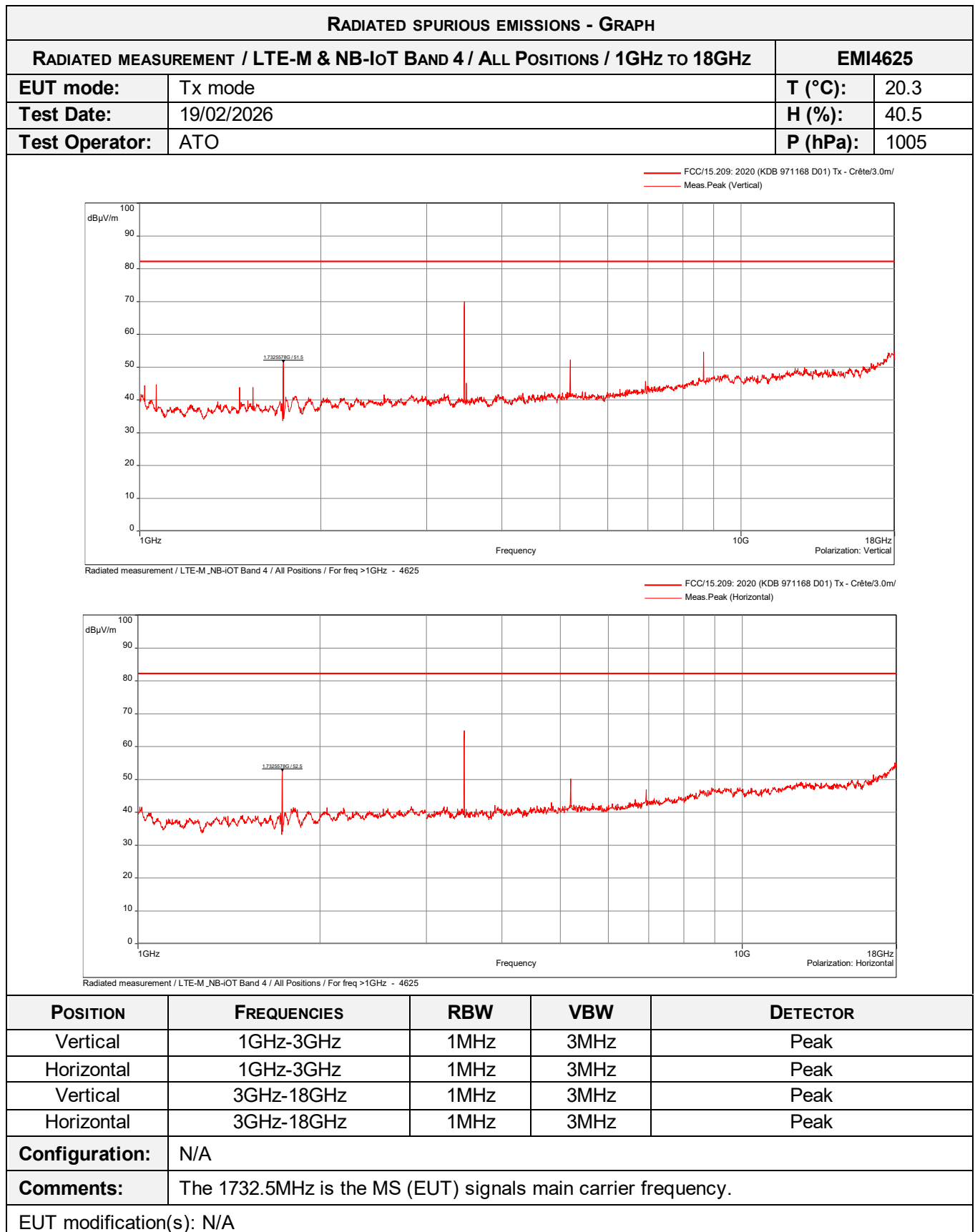


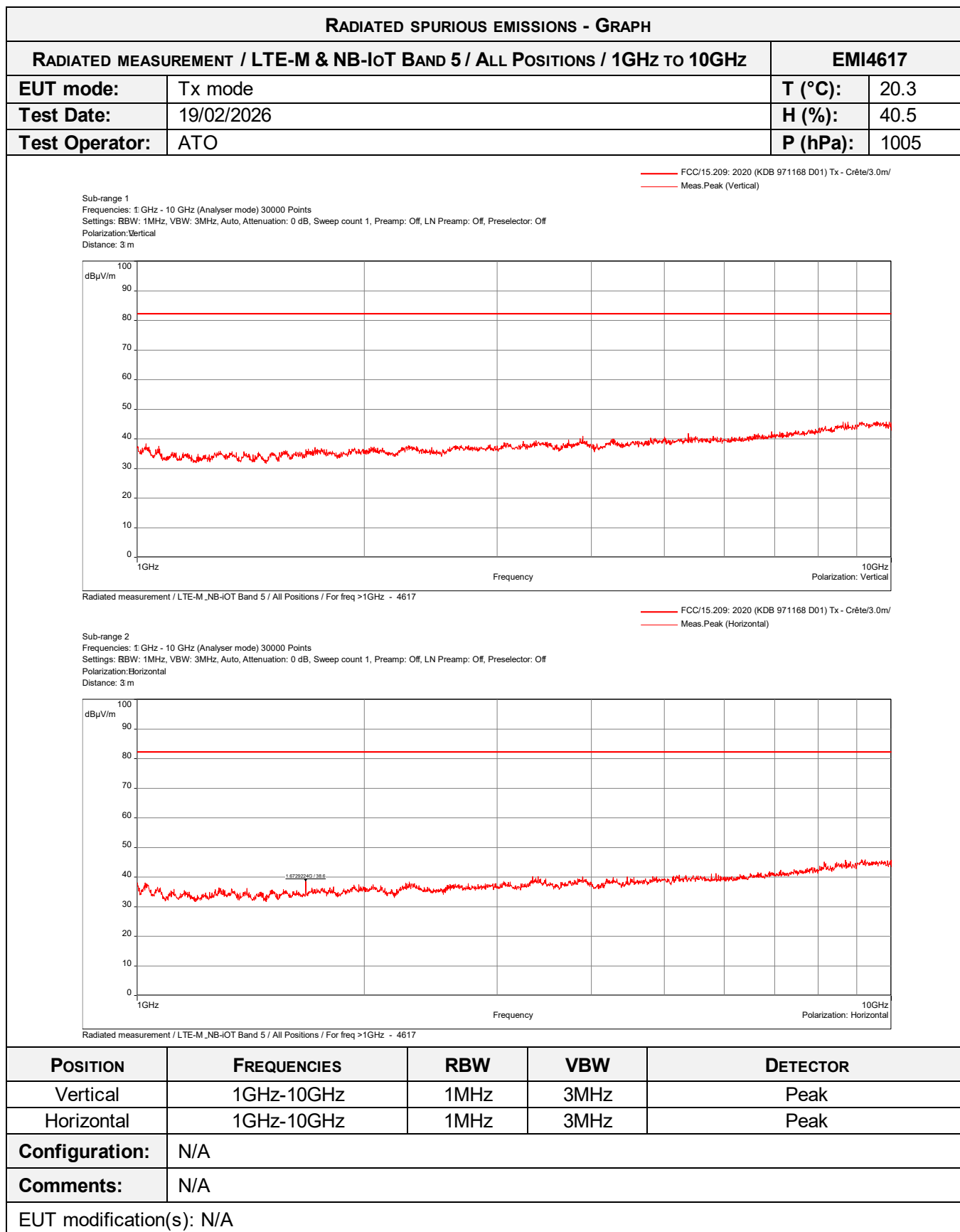


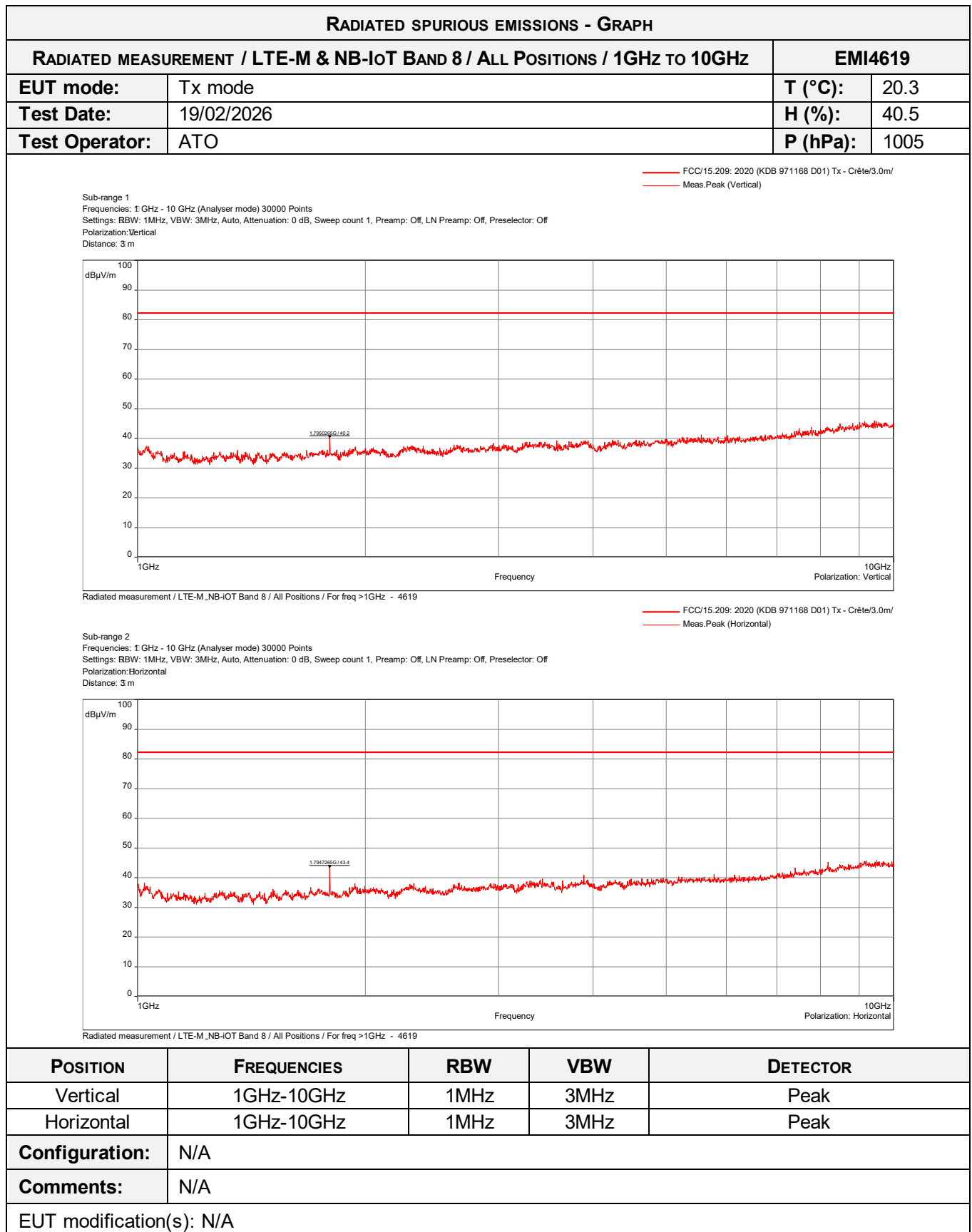


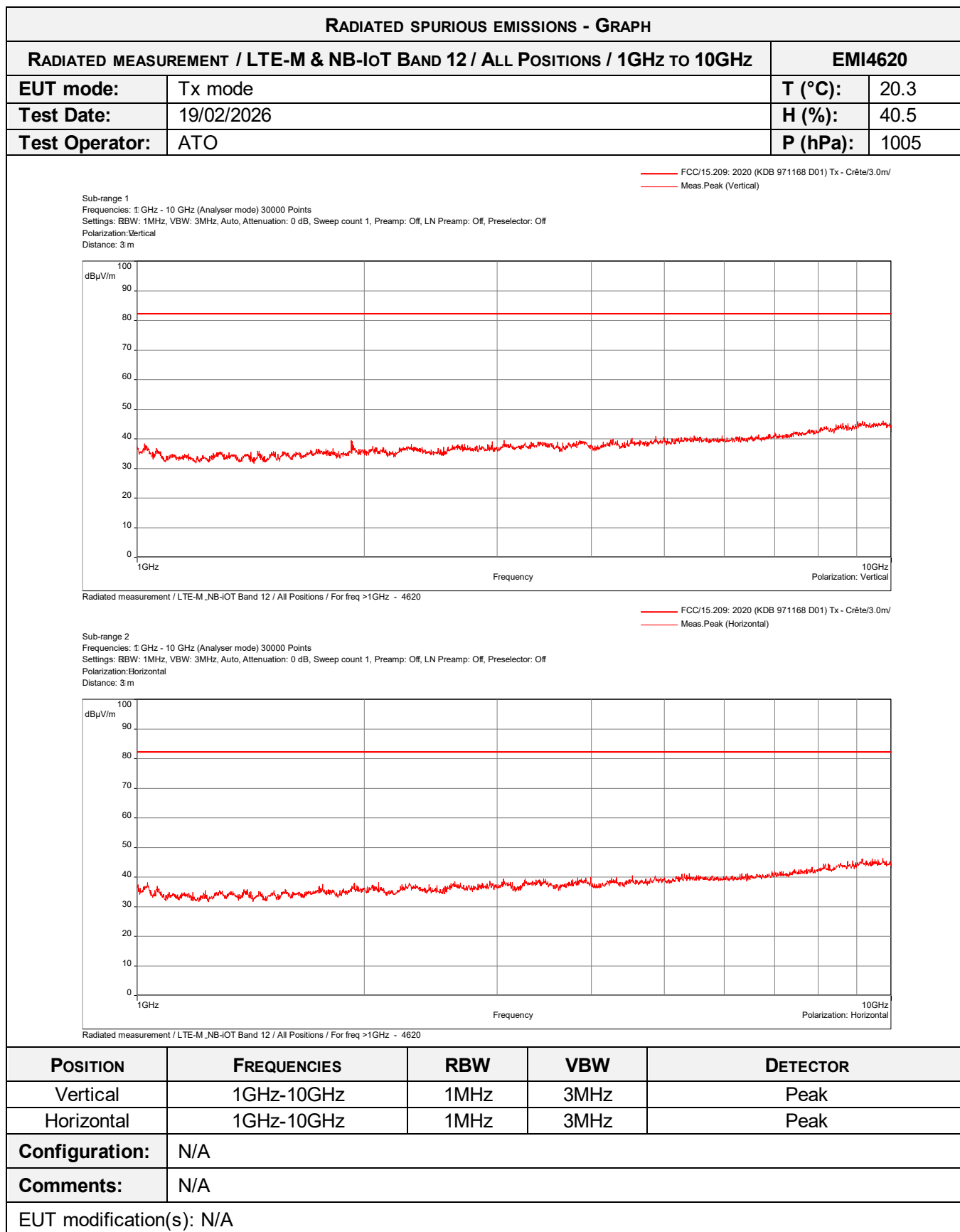


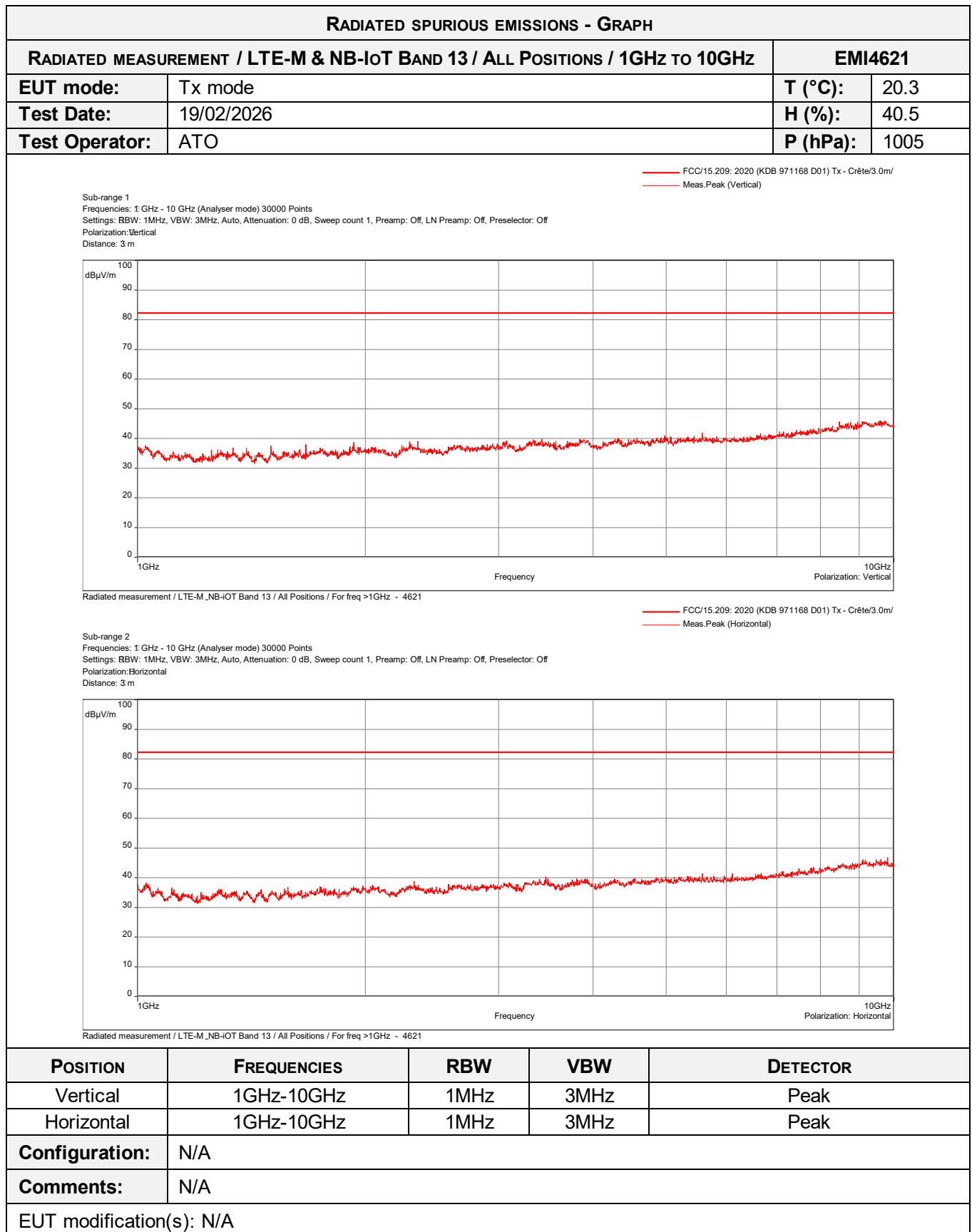


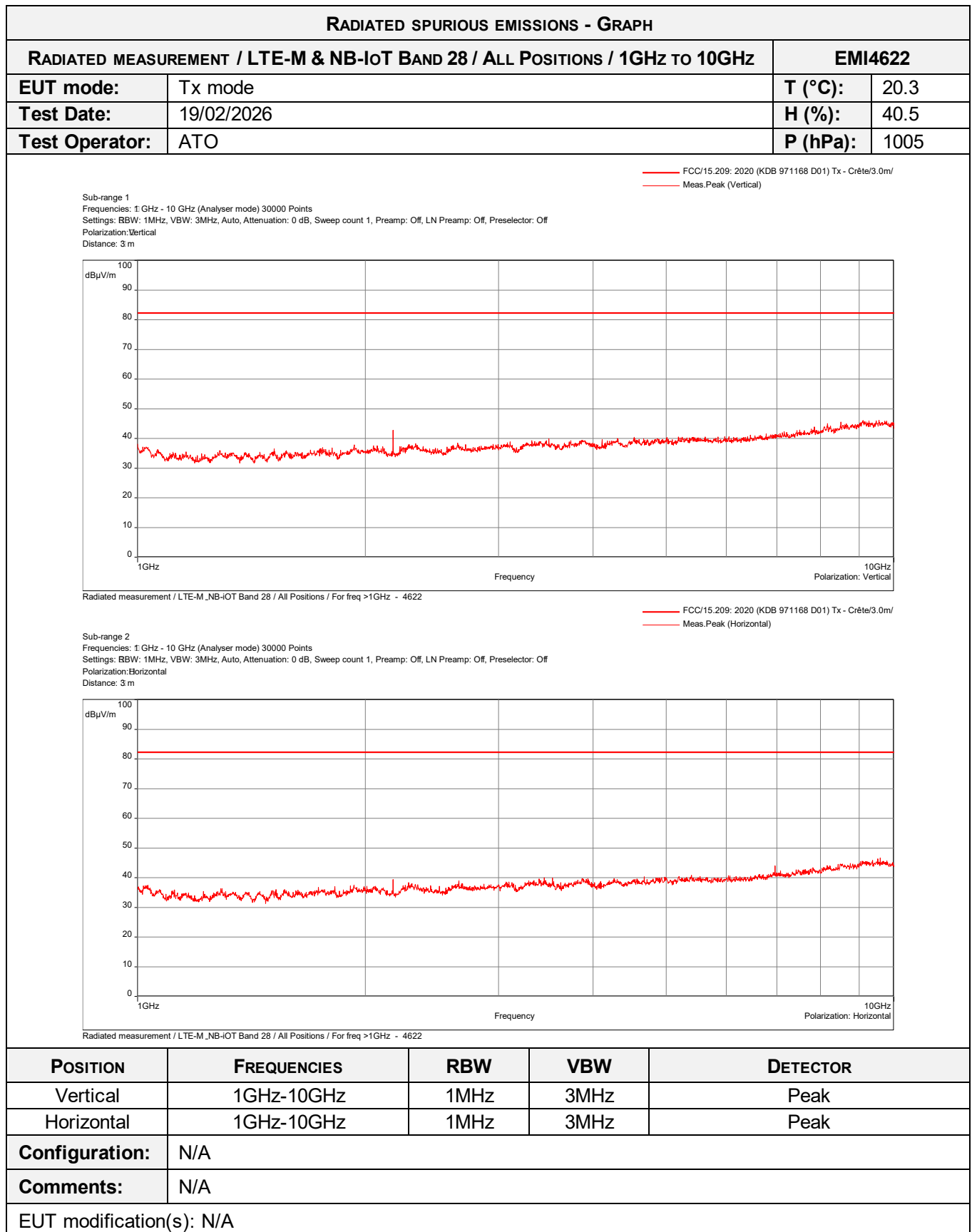












6.2. Maximum peak power of the intentional radiator

Reference standard:	FCC Part 22.913(*) & 24.232(*) & 27.50(*) & 90.635(*) RSS-130; RSS-132; RSS-133; RSS-139; RSS-199
Test method:	ANSI C63.26: 2015
Test description: b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. For EUT without dedicated or integral antenna, EUT is connected to the measuring receiver via 50Ω attenuator(s). Radiated power limit applies to the maximum measured conducted power value adjusted by the antenna gain and beamforming gain. For EUT with integral or dedicated antenna, measurements are done on a normalized test site. EUT is set on an insulating support at 150 cm above the ground reference plane. Measurement is done on a normalized test site by the substitution method. 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. For portable equipments: - For frequencies < 1GHz a research of maximum level is done on 3 axes - For frequencies > 1GHz styrofoam wedges, precut to the 30°, 60°, and 90° angles, are used to support the EUT in the 6 different orientations. Only the highest levels are recorded.	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
EIRP / LTE-M & NB-IoT Band 2 / All Positions / 30MHz to 1GHz	1880 MHz	2 W (33 dBm)	EMI4627	PASS
EIRP / LTE-M & NB-IoT Band 3 / All Positions / 30MHz to 1GHz	1747.5 MHz	-	EMI4628	FOR INFORMATION
EIRP / LTE-M & NB-IoT Band 4 / All Positions / 30MHz to 1GHz	1732.5 MHz	1 W (30 dBm)	EMI4629	PASS
EIRP / LTE-M & NB-IoT Band 5 / All Positions / 30MHz to 1GHz	836.5 MHz	7 W (38.5 dBm)	EMI4630	PASS
EIRP / LTE-M & NB-IoT Band 8 / All Positions / 30MHz to 1GHz	897.5 MHz	-	EMI4631	FOR INFORMATION
EIRP / LTE-M & NB-IoT Band 12 / All Positions / 30MHz to 1GHz	707.5 MHz	3 W (34.8 dBm)	EMI4632	PASS
EIRP / LTE-M & NB-IoT Band 13 / All Positions / 30MHz to 1GHz	782 MHz	3 W (34.8 dBm)	EMI4633	PASS
EIRP / LTE-M & NB-IoT Band 28 / All Positions / 30MHz to 1GHz	725.5 MHz	-	EMI4634	FOR INFORMATION

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)
Test method deviation: N/A		
Supplementary information: N/A		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	ETS lindgren	3143B	17930	10/04/2025	10/06/2028
Antenna	AARONIA	Powerlog 70180	15306	04/01/2023	04/03/2026
Attenuator	EMITECH	SUB.V4-H	18112	03/06/2024	03/08/2027
Attenuator	EMITECH	SUB.V4-V	18111	03/06/2024	03/08/2027
Cable	Techniwave	N-2.5m	18350	17/08/2023	17/10/2026
Cable	Techniwave	N-4m	18355	17/08/2023	17/10/2026
Cable	Techniwave	N-1m	18344	10/07/2024	10/09/2026
Cable	/	N-1m	3625	09/06/2025	09/08/2027
Cable	Techniwave	N-3.5m	18352	11/09/2025	11/11/2027
Cable	Techniwave	N-3.5m	18353	11/09/2025	11/11/2027
Receiver	Rohde & Schwarz	ESW26	17791	04/09/2025	04/11/2026
Shielded enclosure	COMTEST	C.V4	18014	05/11/2024	05/01/2028
Software	Nexio	BAT EMC	0000		
Thermohygrometer	LUFFT	OPUS 20	17844	05/06/2025	05/08/2026
Thermohygrometer	Testo	608-H2	12269	18/02/2025	18/04/2027

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

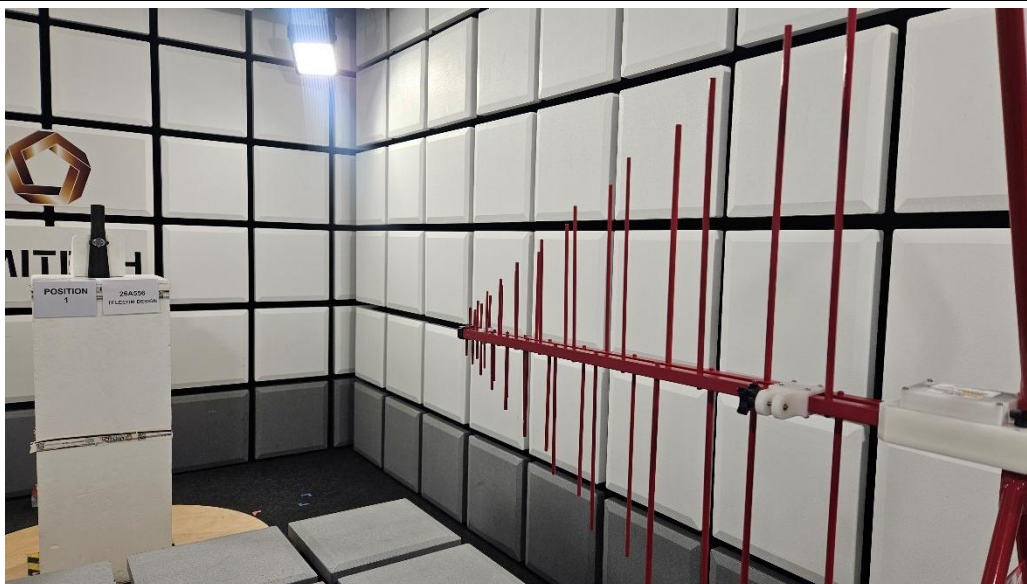
TEST SETUP PHOTO(S) - RADIATED MEASUREMENT – WITH PHANTOM ARM (STANDARD)



TEST SETUP PHOTO(S) - RADIATED MEASUREMENT – WITHOUT PHANTOM ARM (LP)



TEST SETUP PHOTO(S) - RADIATED MEASUREMENT – FOR FREQ <1GHz



TEST SETUP PHOTO(S) - RADIATED MEASUREMENT – FOR FREQ >1GHz



MAXIMUM PEAK POWER OF THE INTENTIONAL RADIATOR - TABULATED RESULTS			
EIRP / LTE-M & NB-IoT BAND 2 / ALL POSITIONS			EMI4627
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
1880.00	Vertical	12.00	33.00
1880.00	Horizontal	12.60	33.00

MAXIMUM PEAK POWER OF THE INTENTIONAL RADIATOR - TABULATED RESULTS			
EIRP / LTE-M & NB-IoT BAND 3 / ALL POSITIONS			EMI4628
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
1747.50	Vertical	12.40	-
1747.50	Horizontal	12.40	-

MAXIMUM PEAK POWER OF THE INTENTIONAL RADIATOR - TABULATED RESULTS			
EIRP / LTE-M & NB-IoT BAND 4 / ALL POSITIONS			EMI4629
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
1732.50	Vertical	12.60	30.00
1732.50	Horizontal	12.40	30.00

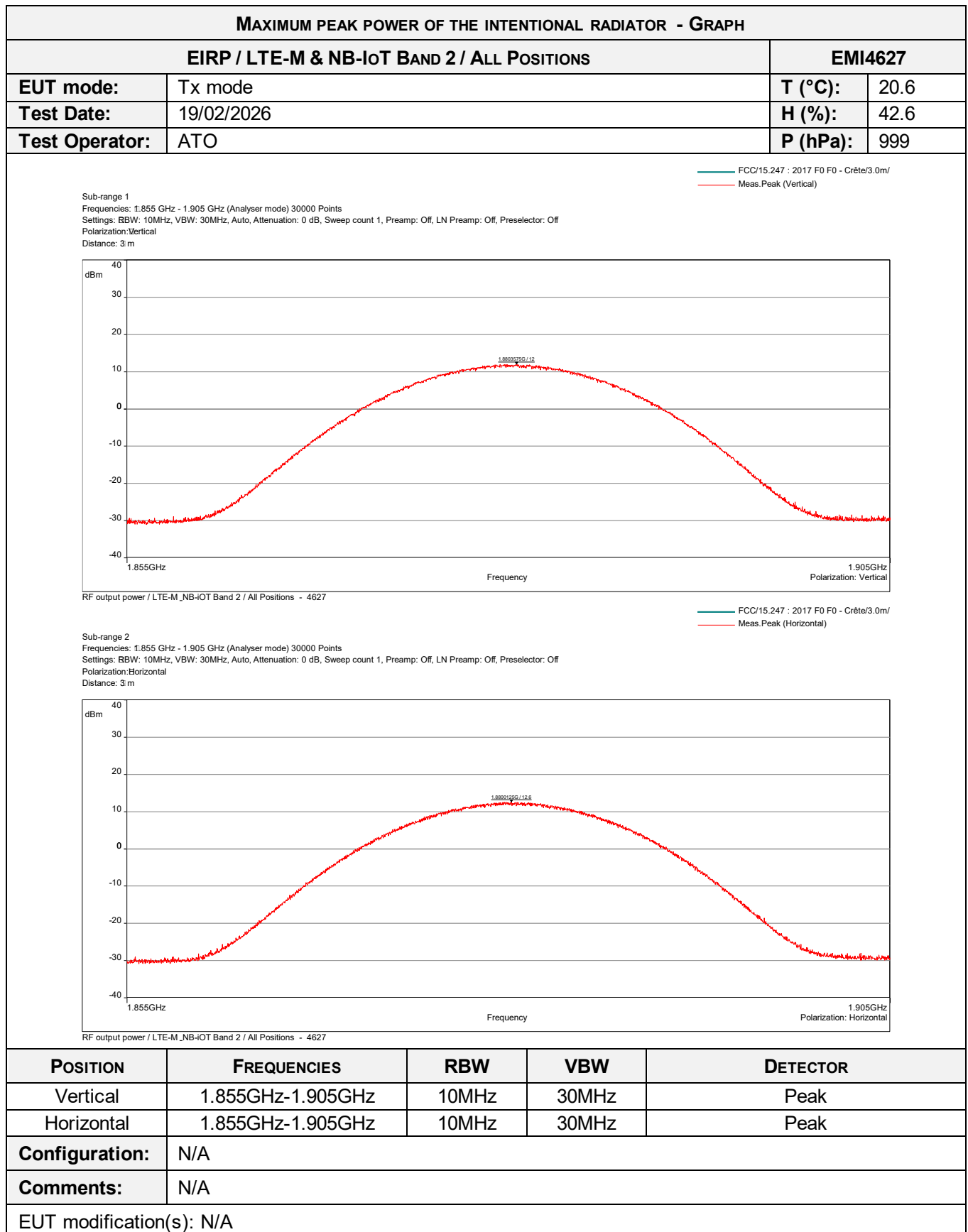
MAXIMUM PEAK POWER OF THE INTENTIONAL RADIATOR - TABULATED RESULTS			
EIRP / LTE-M & NB-IoT BAND 5 / ALL POSITIONS			EMI4630
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
836.50	Vertical	13.20	38.50
836.50	Horizontal	12.70	38.50

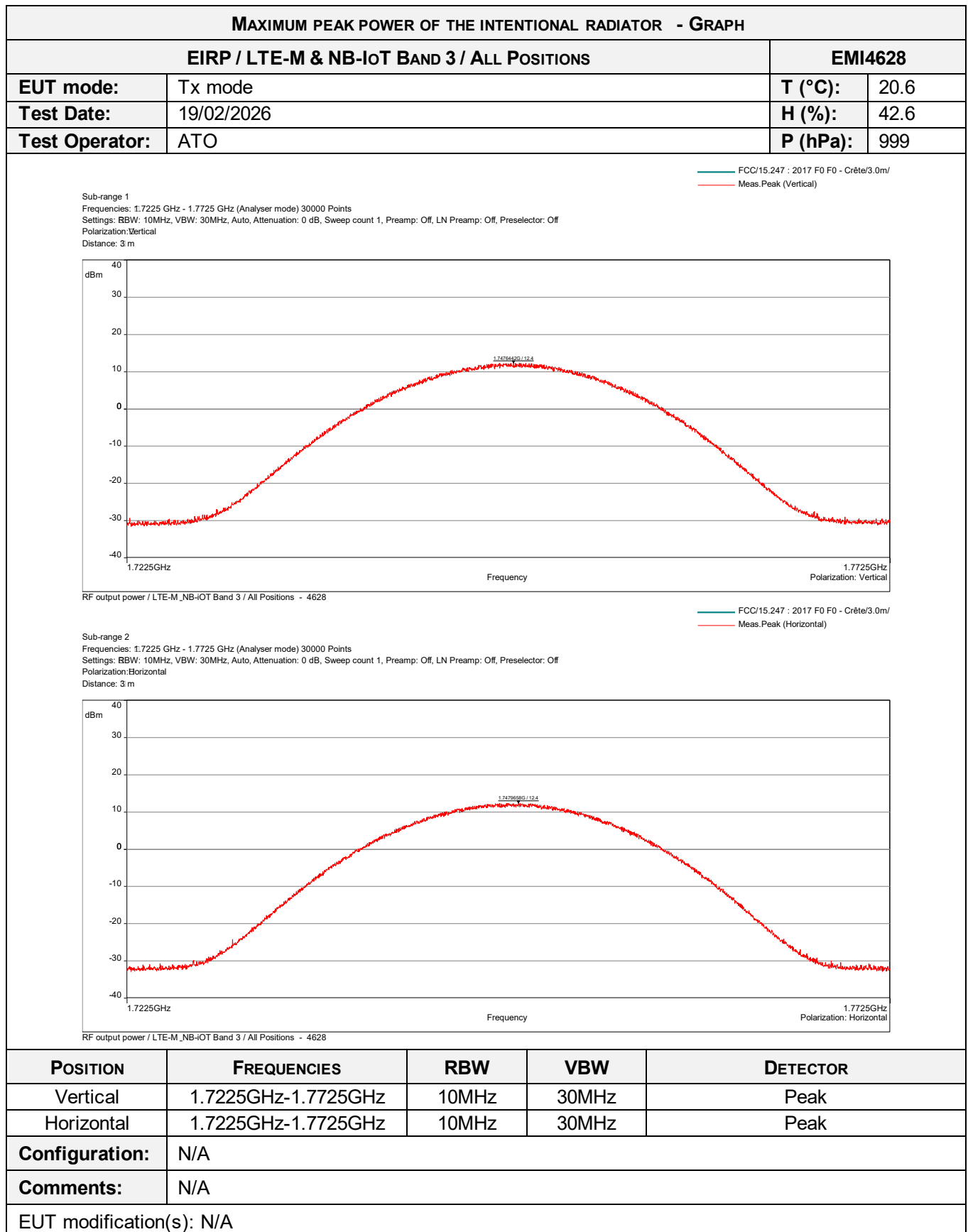
MAXIMUM PEAK POWER OF THE INTENTIONAL RADIATOR - TABULATED RESULTS			
EIRP / LTE-M & NB-IoT BAND 8 / ALL POSITIONS			EMI4631
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
897.50	Vertical	12.80	-
897.50	Horizontal	11.10	-

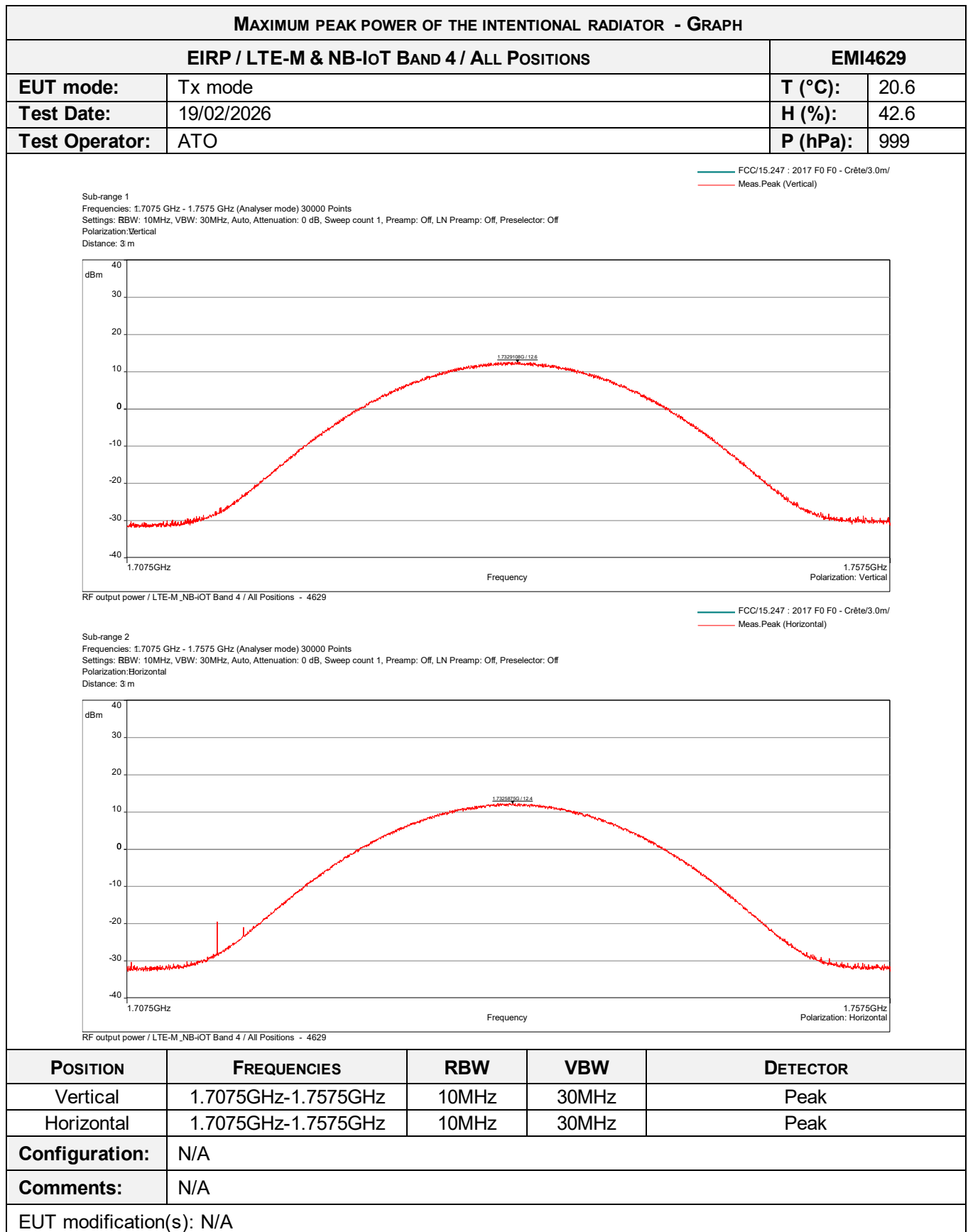
MAXIMUM PEAK POWER OF THE INTENTIONAL RADIATOR - TABULATED RESULTS			
EIRP / LTE-M & NB-IoT BAND 12 / ALL POSITIONS			EMI4632
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
707.50	Vertical	13.30	34.80
707.50	Horizontal	13.10	34.80

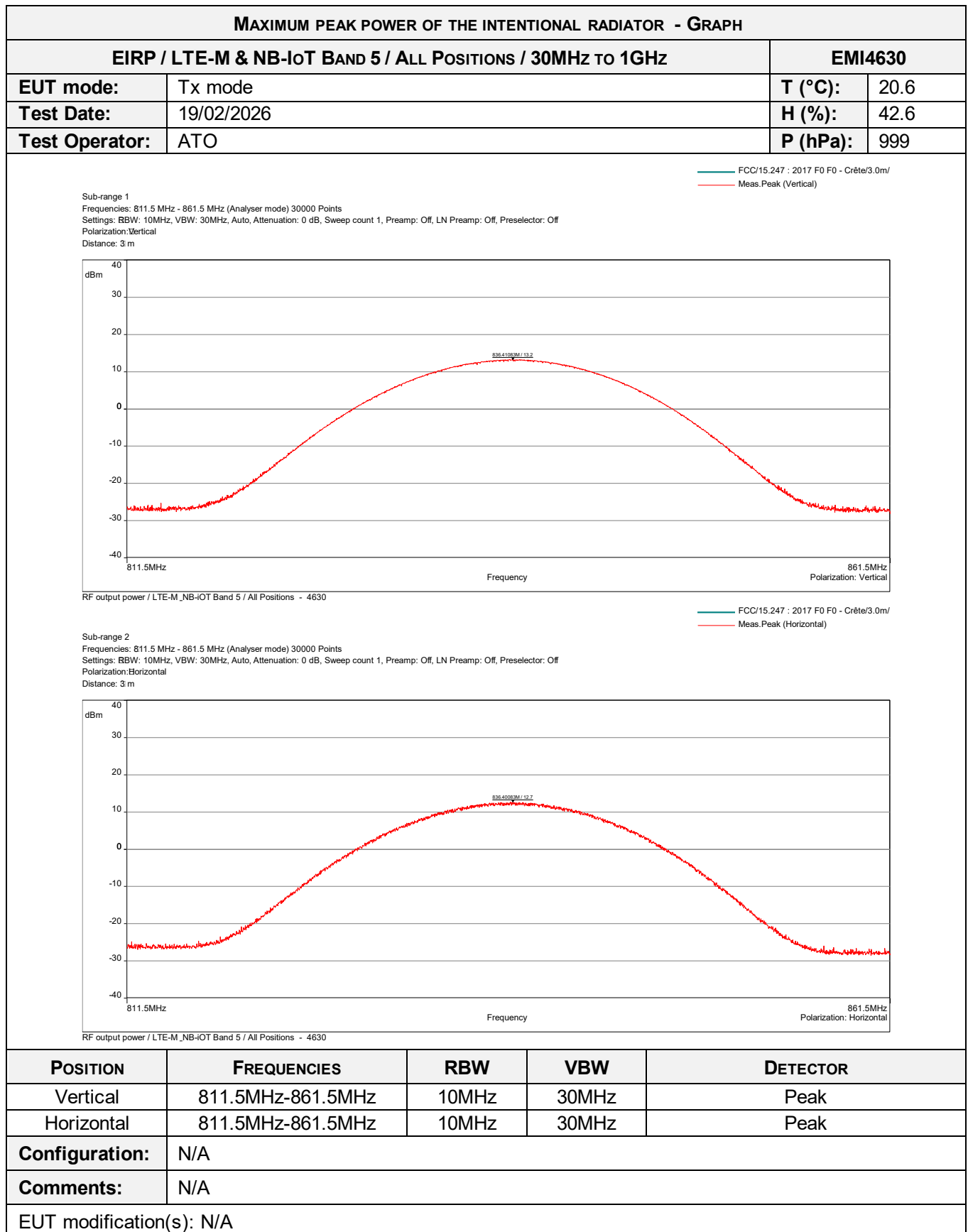
MAXIMUM PEAK POWER OF THE INTENTIONAL RADIATOR - TABULATED RESULTS			
EIRP / LTE-M & NB-IoT BAND 13 / ALL POSITIONS			EMI4633
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
782.00	Vertical	14.40	34.80
782.00	Horizontal	15.40	34.80

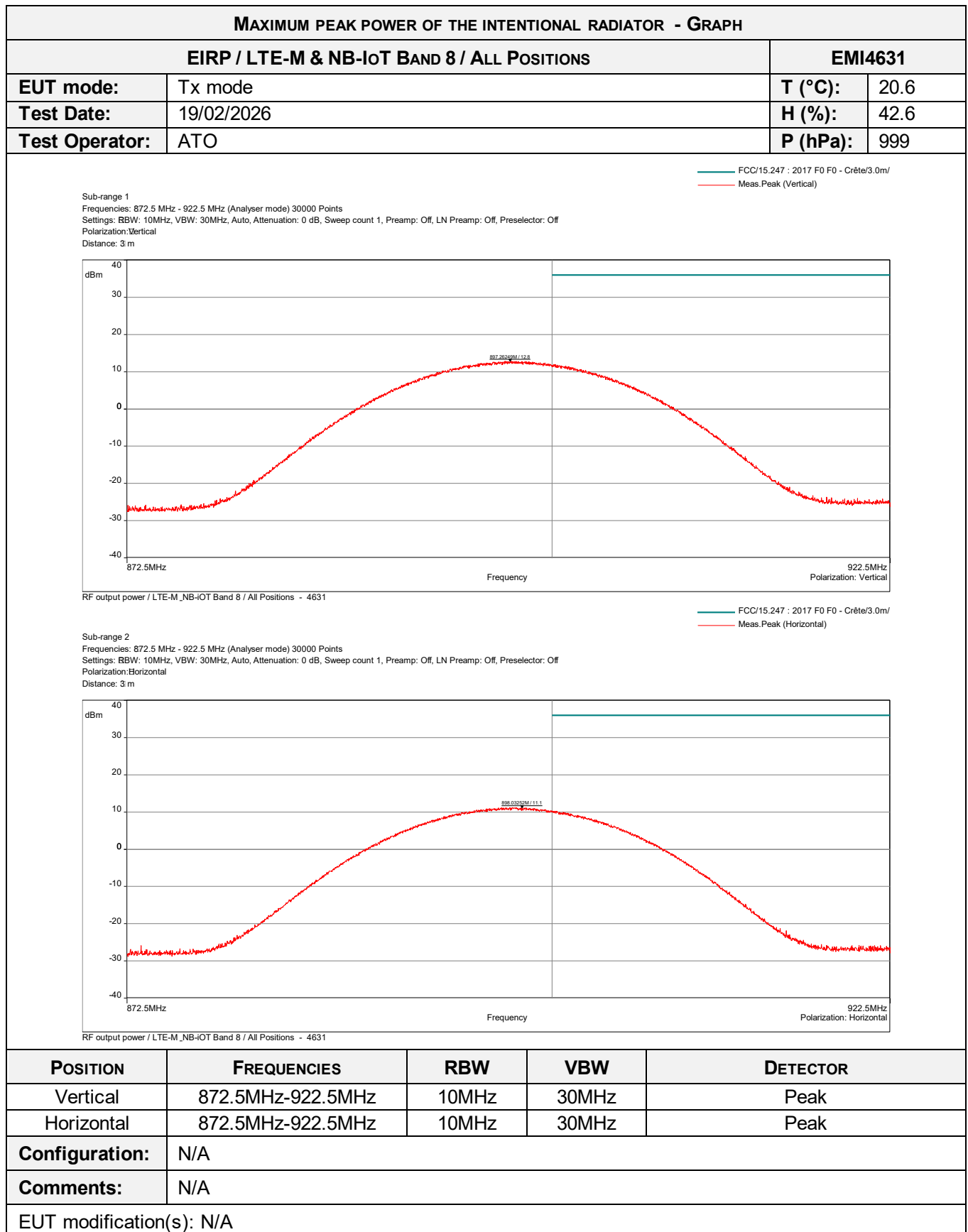
MAXIMUM PEAK POWER OF THE INTENTIONAL RADIATOR - TABULATED RESULTS			
EIRP / LTE-M & NB-IoT BAND 28 / ALL POSITIONS			EMI4634
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
725.50	Vertical	12.30	-
725.50	Horizontal	11.70	-

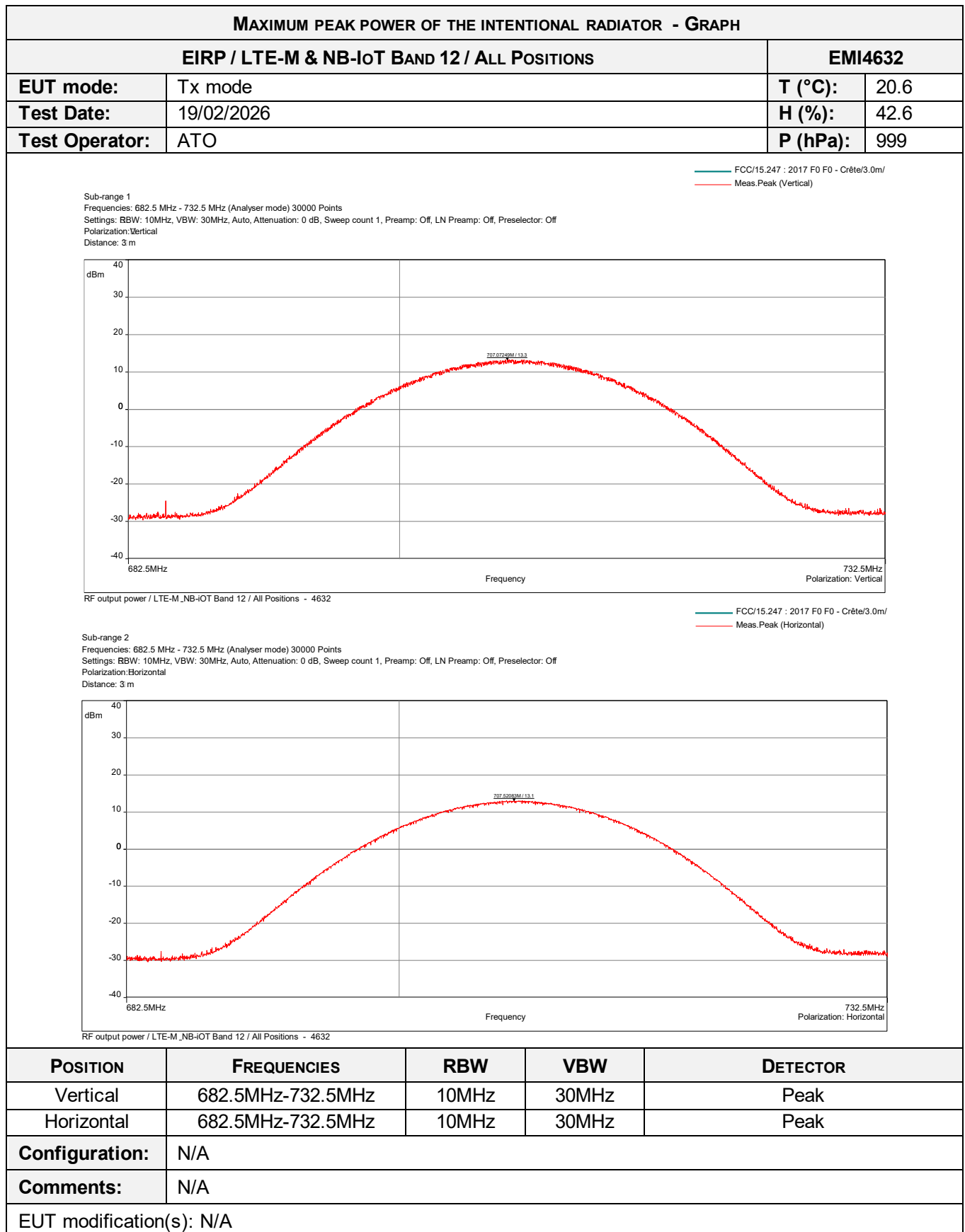


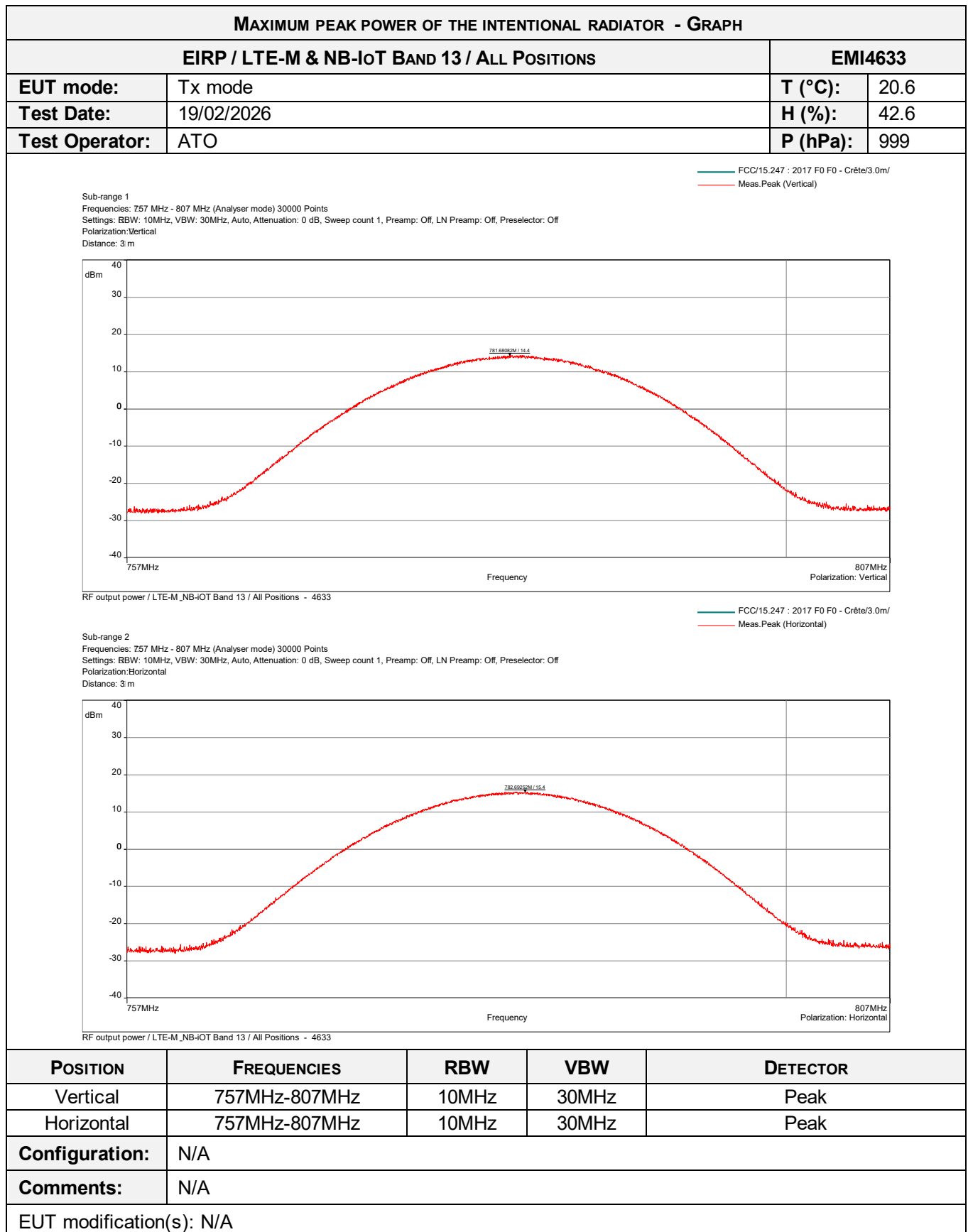


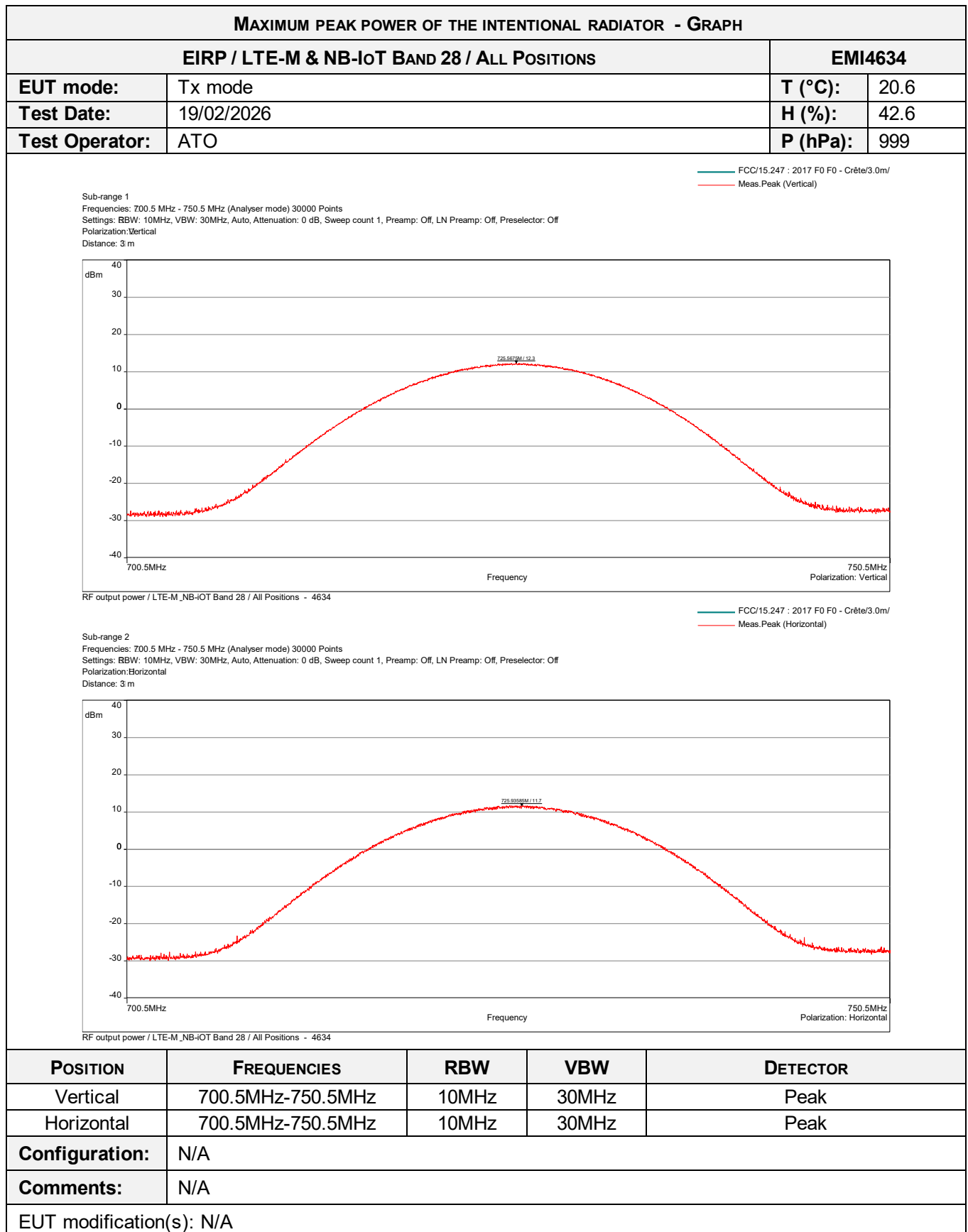












End of test report