



Test report issued under the responsibility of:

EMITECH MONTPELLIER laboratory

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RADIO TEST REPORT

FCC 47 CFR PART 15.247: April 2025

RSS-247, Issue 4: July 2025

ANSI C 63.10: 2020

Company : **INSIGHT SIP**
Address..... : 400 AVENUE ROUMANILLE
GREENSIDE BAT 7
06906 SOPHIA-ANTIPOLIS
FRANCE

Test item description. : **Wi-Fi, BLE, Thread, module**
Trade Mark. : INSIGHT SIP
Manufacturer..... : INSIGHT SIP
Model/Type reference..... : ISP5261
FCC ID..... : 2AAQS-ISP5261
IC. : 11306A-ISP5261
Ratings..... : 3.14 VDC to 3.46 VDC

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

Report Reference No...... : **RR-EVE-24F158-4A**
Test procedure. : FCC IC Certification
Diffusion..... : Mr FATTOUH
Applicant's name. : INSIGHT SIP
Date of issue..... : January 14, 2026
Total number of pages..... : 45
Revision. : 0
Compiled by..... : Morgan PATEY
Approved by (+ signature). : David MONTAULON (Laboratory Manager)

*Duplication of this test report is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above.
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	January 14, 2026	/	Creation

1. GENERAL INFORMATIONS

This document submits the results of Radio tests performed on the equipment **Wi-Fi, BLE, Thread, module ISP5261** (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: Morgan PATEY Test supervisor: None Date of receipt of test item: N/A Date (s) of performance of tests: From February 06 th to March 13 th of 2025					
APPLICANT'S GENERAL INFORMATIONS:					
Company name: INSIGHT SIP Company address: 400 AVENUE ROUMANILLE GREENSIDE BAT 7 06906 SOPHIA-ANTIPOLIS FRANCE Person(s) present during the tests: No representative for company attended the tests. Responsible: Mr FATTOUH					
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.

FCC 47 CFR PART 15.247: April 2025

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

RSS-247, Issue 4: July 2025

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

ANSI C63.10: 2020

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

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. : Wi-Fi, BLE, Thread, module
Model/Type reference..... : ISP5261
Trade Mark. : INSIGHT SIP
Serial number (S/N)..... : Not communicated
Part number (P/N). : Not communicated
Software version..... : N/A
Firmware version. : *Not communicated*
Type of sample. : Pre-serial
Function(s)..... : Wi-Fi, Bluetooth Low Energy, and Thread, module with integrated bi-band antenna
Manufacturer name. : INSIGHT SIP
Address. : 400 AVENUE ROUMANILLE
GREENSIDE BAT 7
06906 SOPHIA-ANTIPOLIS
FRANCE

General product information:
N/A

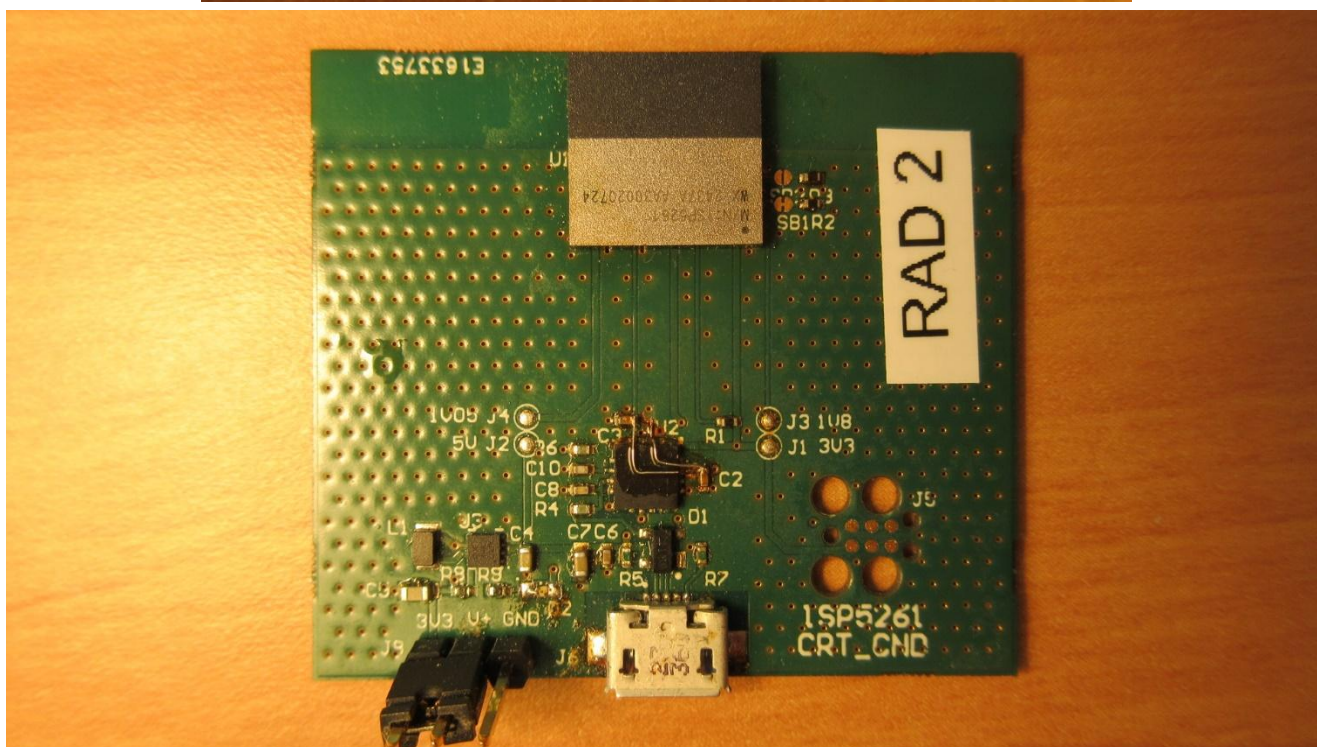
3.2. E.U.T. Marking plate

No marking plate during tests

3.3. E.U.T. Modification(s)

The EUT's firmware Tx power level was set to 17 dBm for low channel (b).
The EUT's firmware Tx power level was set to 16 dBm for low channel (gn).
The EUT's firmware Tx power level was set to 17 dBm for high channel (gn).

3.4.E.U.T. General view



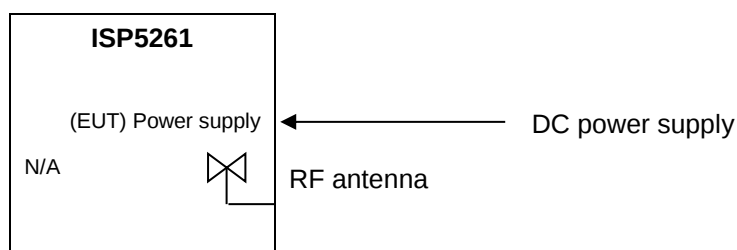
3.5.E.U.T. Mechanical and Electrical Design

Power supply. : 3.3 VDC
Power supply range..... : 3.14 VDC to 3.46 VDC
Power type..... : DC
Power (W)..... : 2 (max)
Nominal current (A). : 0.6 (max)
Dimensions (L x W x H) (m). : 0.012 x 0.012 x 0.0018
Weight (kg). : < 0.01
Temperature range (°C). : -40 to +85
Ground bounding strap..... : No

Comments:

N/A

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



PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/A	N/A	N/A	RF module
1	DC power supply	DC	N/A	N/A	3.3 VDC
2	RF antenna	RF	N/A	N/A	2.4 GHz

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

3.7. Supporting Equipment Used During Test

Sample subject to the tests was tested with following equipment.

PRODUCT TYPE	MANUFACTURER	MODEL	N°EMITECH / COMMENTS
Laptop	ASUS	S301L	Used to power and program the EUT operation modes

LAPTOP (AE)



3.8. EUT Radio Specifications

a) GENERAL INFORMATIONS	
According to manufacturer's declarations :	
EUT type.....	Transceiver
Technology	Wi-Fi / Thread
Environmental profile.....	Data transmissions
Temperature range	-40°C to +85°C
Antenna type	Integrated
Antenna Gain.....	-0.5dBi @2450MHz 2.15dBi @5500MHz
Comments:	
N/A	
b) TRANSMITTER PARAMETERS (Tx)	
Frequency bands.....	Wi-Fi: 5170 MHz to 5895 MHz Thread: 2400 MHz to 2483.5 MHz
RF Power.....	Wi-Fi: > 10 dBm Thread: < 10 dBm
Number of channels / Separation.....	Wi-Fi: 28 Thread: 16
Modulation type	Wi-Fi: 802.11 a Thread: 802.15.4
Duty cycle	Not communicated
Tested frequency.....	Wi-Fi: 5500 MHz Thread: 2440 MHz
c) RECEIVER PARAMETERS (Rx)	
Frequency bands.....	Wi-Fi: 5170 MHz to 5895 MHz Thread: 2400 MHz to 2483.5 MHz
Category/Class	Not communicated
Bandwidth	Wi-Fi: 5170 MHz to 5895 MHz Thread: 2400 MHz to 2483.5 MHz

4. RESULT SUMMARY

TEST DESIGNATION	SEVERITY	VERDICT	BASIC STANDARDS / COMMENTS
SUBPART C –INTENTIONAL RADIATORS			
Equipment authorization requirement		PASS	15.201 / Transmitter part is subject to Certification procedure
Antenna requirement		PASS	15.203 / Dedicated integral antenna
Restricted bands of operation		PASS	15.204
Radiated emission limits; general requirements	Class B	PASS	15.209
Additional provisions to the general radiated emission limits		PASS	15.215

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)
ANSI C63.10	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	$\pm 2.3\text{dB}$	$\pm 3 \text{ dB}$
Occupied bandwidth		
RF power	$\pm 3.8 \%$	$\pm 5 \%$
Radiated emission (PAR / PIRE / RNE)		
$f \leq 62.5 \text{ MHz}$	$\pm 5.7 \text{ dB}$	$\pm 6 \text{ dB}$
62.5 MHz - 1 GHz	$\pm 5.8 \text{ dB}$	$\pm 6 \text{ dB}$
1 GHz - 18 GHz	$\pm 5.6 \text{ dB}$	$\pm 6 \text{ dB}$
18 GHz – 40 GHz	$\pm 5.6 \text{ dB}$	$\pm 6 \text{ dB}$
40 GHz – 110 GHz	$\pm 5.9 \text{ dB}$	Between ± 6 to 10 dB
PIRE and power spectral density with diode	$\pm 5.7 \text{ dB}$	$\pm 6 \text{ dB}$
Radiated emission (magnetic field)		
9kHz – 30MHz	$\pm 3.4 \text{ dB}$	$\pm 6 \text{ dB}$
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	$\pm 4.4 \%$	$\pm 5 \%$
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	$\pm 5.3 \text{ dB}$	/
18GHz – 40GHz	$\pm 6.1 \text{ dB}$	/
40GHz – 140GHz	$\pm 5.7 \text{ dB}$	/

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

6. TEST CONDITIONS AND RESULTS

6.1. Radiated emission limits

Reference standard:	FCC 47 CFR PART 15.209 RSS-247
Test method:	ANSI C63.10
General test setup: 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 $f > 30\text{MHz}$, EUT is set on an insulating support at 80cm above the ground reference plane (150cm for $f > 1\text{GHz}$). 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. All frequencies were investigated, where applicable. For portable equipments a research of maximum level is done on the 3 axes. In addition we used the tilt function of antenna mast, in order to find the maximum radiated emission in all directions. Only the highest levels are recorded.	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 0°	9kHz-30MHz	15.209	EMI4799	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 45°	9kHz-30MHz	15.209	EMI4800	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 90°	9kHz-30MHz	15.209	EMI4801	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 30 MHz to 1 GHz / Position 1	30MHz-1GHz	15.209	EMI4453	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 30 MHz to 1 GHz / Position 2	30MHz-1GHz	15.209	EMI4454	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 30 MHz to 1 GHz / Position 3	30MHz-1GHz	15.209	EMI4455	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 1 GHz to 18 GHz / Position 1	1GHz-18GHz	15.209	EMI4918	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 1 GHz to 18 GHz / Position 2	1GHz-18GHz	15.209	EMI4919	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 1 GHz to 18 GHz / Position 3	1GHz-18GHz	15.209	EMI4920	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 1 GHz to 18 GHz / Position 4	1GHz-18GHz	15.209	EMI4921	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 1 GHz to 18 GHz / Position 5	1GHz-18GHz	15.209	EMI4922	PASS

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 1 GHz to 18 GHz / Position 6	1GHz-18GHz	15.209	EMI4923	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 18 GHz to 26.5 GHz / Position 1	18GHz-26.5GHz	15.209	EMI4731	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 18 GHz to 26.5 GHz / Position 2	18GHz-26.5GHz	15.209	EMI4744	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 18 GHz to 26.5 GHz / Position 3	18GHz-26.5GHz	15.209	EMI4757	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 18 GHz to 26.5 GHz / Position 4	18GHz-26.5GHz	15.209	EMI4770	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 18 GHz to 26.5 GHz / Position 5	18GHz-26.5GHz	15.209	EMI4796	PASS
Radiated measurement / Collocation Wi-Fi 5 GHz + Thread / 18 GHz to 26.5 GHz / Position 6	18GHz-26.5GHz	15.209	EMI4783	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)
Test method deviation: N/A		
Supplementary information: From 9 kHz to 30 MHz, the limit indicated on graphs is calculated with 40 dB/decade extrapolation factor and 51.5 dB conversion factor. From 30 MHz to 1 GHz in restricted bands, quasi-peak limit provided is the limit given in §15.209. Above 1 GHz in restricted bands , average limit provided is the limit given in §15.209. For radiated emissions which don't fall in the restricted bands, the limit is 20 dB under carrier emission level at 3 meter without quasi-peak or averaging. From 18 GHz to 26.5 GHz, in order to increase the dynamics of the measurements, these were carried out at a distance of 1 meter and the limit was recalculated.		

TEST EQUIPMENT USED – 9 KHZ TO 30 MHZ					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	Rohde & Schwarz	HFH2-Z2	5825	17/08/2022	17/04/2025
Cable	SUCOFLEX	N-3m	14378	17/08/2023	17/10/2025
Cable	SUCOFLEX	N-6,5m	14380	17/08/2023	17/10/2025
Cable	Techniwave	N-8m	18349	17/08/2023	17/10/2025
Receiver	Rohde & Schwarz	ESW8	19536	02/05/2024	02/07/2025
Shielded enclosure	COMTEST	SAC 3m	14494	08/08/2023	08/10/2026
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H1	7562	28/09/2023	28/11/2025
Thermohygrometer	Bioblock Scientific	Météostar	0963	25/09/2023	25/11/2025

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

TEST EQUIPMENT USED – 30 MHZ TO 26 GHZ					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	ETS-Lindgren	3117	5456	09/09/2022	09/11/2025
Antenna	ETS lindgren	3142E	14523	27/01/2022	27/03/2025
Antenna	ETS lindgren	3160-09	14690	17/01/2024	17/03/2027

CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	AARONIA	Powerlog 70180	15306	04/01/2023	04/03/2026
Cable	JYE BAO	K30K30-5003-40G1	14887	30/01/2024	30/03/2026
Cable	Huber + Suhner	K-5m	14459	20/01/2022	20/03/2025
Cable	Techniwave	N-1.5m	18340	17/08/2023	17/10/2025
Cable	Techniwave	N-1.5m	18341	17/08/2023	17/10/2025
Cable	cables and connectors	N-1.5m	4203	03/03/2023	03/05/2025
Cable	/	N-1m	3625	02/05/2023	02/07/2025
Cable	Techniwave	N-2.5m	18350	17/08/2023	17/10/2025
Cable	Techniwave	N-3.5m	18352	17/08/2023	17/10/2025
Cable	Techniwave	N-3.5m	18354	17/08/2023	17/10/2025
Cable	SUCOFLEX	N-3m	14378	17/08/2023	17/10/2025
Cable	SUCOFLEX	N-3m	14379	17/08/2023	17/10/2025
Cable	SUCOFLEX	N-5,5m	14381	17/08/2023	17/10/2025
Cable	SUCOFLEX	N-6,5m	14380	17/08/2023	17/10/2025
Cable	Techniwave	N-8m	18349	17/08/2023	17/10/2025
Filter	Micro-Tronics	HPM 11630	4392	20/10/2023	20/12/2026
Filter	Micro-Tronics	HPM15162	16973	26/06/2023	26/08/2026
Filter	Micro-Tronics	HPM15162	19385	25/03/2024	25/05/2026
Filter	Micro-Tronics	HPM18865	12843	03/12/2024	03/02/2028
Filter	Wainwright Instruments	WRCGV 2402/2480- 2380/2500- 40/10EE-200W	9771	28/09/2023	28/11/2026
Preamplifier	Techniwave	APS16-0087	14040	15/07/2024	15/09/2025
Preamplifier	Wright Technologie	ASL40-B3015	14851	30/01/2024	30/03/2026
Preamplifier	IMPULSE	CA118-546ACN	9169	01/10/2024	01/12/2025
Receiver	Rohde & Schwarz	ESW26	17791	16/07/2024	16/09/2025
Receiver	Rohde & Schwarz	ESW8	19536	02/05/2024	02/07/2025
Receiver	Rohde & Schwarz	FSW43	14830 ⁽¹⁾	31/08/2022	31/04/2025
Shielded enclosure	RAY PROOF	C.V2	1423	10/08/2023	10/10/2026
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	Testo	608-H1	7561	17/12/2024	17/02/2026
Thermohygrometer	Testo	608-H1	7562	28/09/2023	28/11/2025
Thermohygrometer	Bioblock Scientific	Météostar	0963	25/09/2023	25/11/2025

BAT-EMC software version: V3.18.0.26

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(1) Under derogation EQSDER000S4100139

TEST SETUP PHOTO(S) – EUT POSITION 1



TEST SETUP PHOTO(S) – EUT POSITION 2



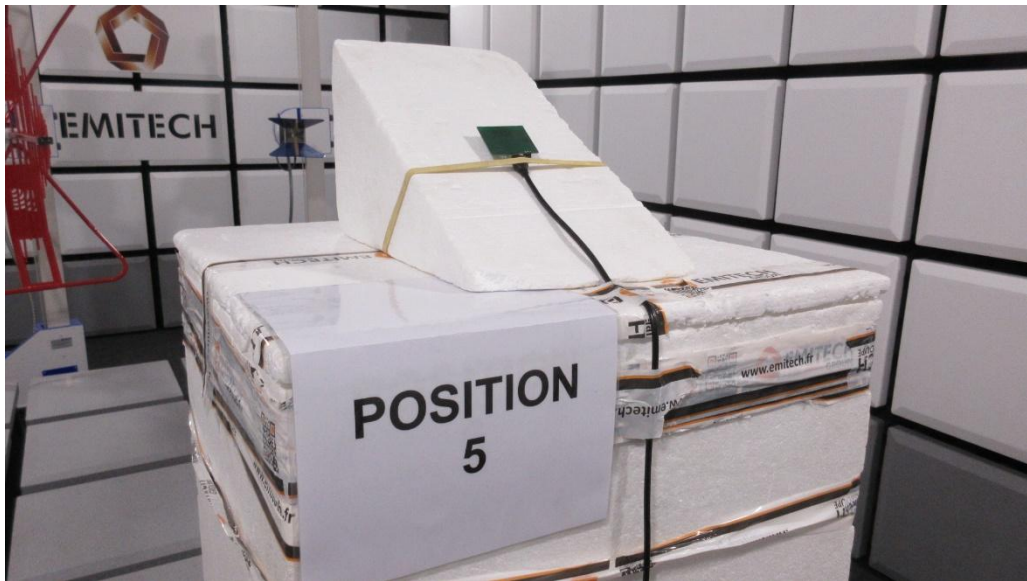
TEST SETUP PHOTO(S) – EUT POSITION 3



TEST SETUP PHOTO(S) – EUT POSITION 4



TEST SETUP PHOTO(S) – EUT POSITION 5



TEST SETUP PHOTO(S) – EUT POSITION 6



TEST SETUP PHOTO(S) – 9 KHz TO 30 MHz



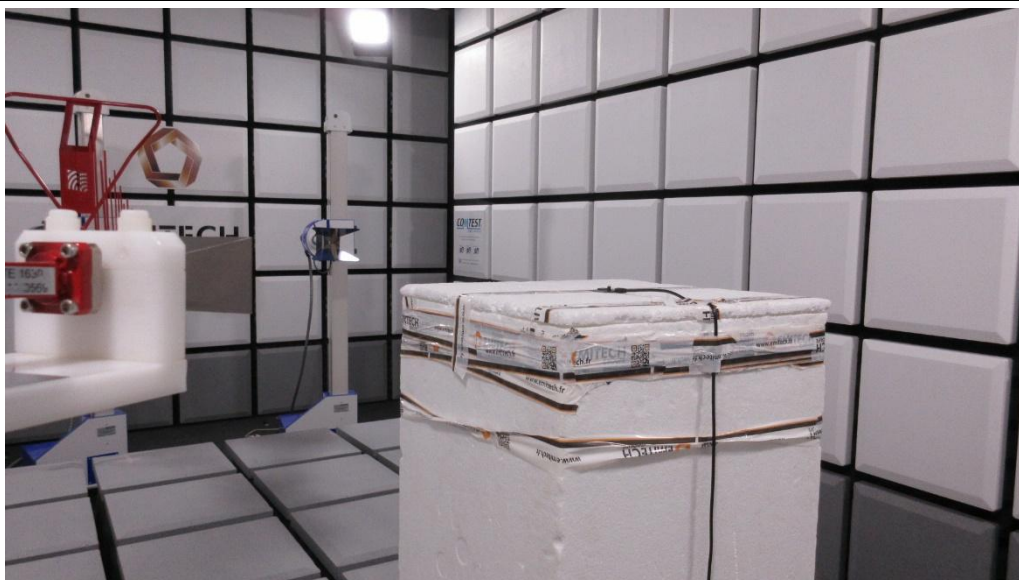
TEST SETUP PHOTO(S) – 30 MHz TO 1 GHz



TEST SETUP PHOTO(S) – 1 GHz TO 18 GHz



TEST SETUP PHOTO(S) – 18 GHz TO 26 GHz



RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 0°						EMI4799	
FREQUENCY (MHz)	PEAK LEVEL (dBµV/m)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	AVERAGE MARGIN (dB)	QPEAK LEVEL (dBµV/m)	QPEAK LIMIT (dBµV/m)	QPEAK MARGIN (dB)
0.101	-13.03	N/P	56.06	-69.09	N/A	N/A	N/A
0.133	-19.94	N/P	53.60	-73.53	N/A	N/A	N/A
0.482	-3.60	N/P	42.45	-46.05	N/A	N/A	N/A
0.964	-11.99	N/A	N/A	N/A	N/P	-28.42	-32.36
Comments:	No more spurious emissions detected.						

RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 45°						EMI4800	
FREQUENCY (MHz)	PEAK LEVEL (dBµV/m)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	AVERAGE MARGIN (dB)	QPEAK LEVEL (dBµV/m)	QPEAK LIMIT (dBµV/m)	QPEAK MARGIN (dB)
0.099	-15.46	N/P	56.19	-71.65	N/A	N/A	N/A
0.117	-19.90	N/P	54.77	-74.67	N/A	N/A	N/A
0.483	-4.07	N/P	42.43	-46.49	N/A	N/A	N/A
0.960	-13.19	N/A	N/A	N/A	N/P	-29.65	-32.36
Comments:	No more spurious emissions detected.						

RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 90°						EMI4801	
FREQUENCY (MHz)	PEAK LEVEL (dBµV/m)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	AVERAGE MARGIN (dB)	QPEAK LEVEL (dBµV/m)	QPEAK LIMIT (dBµV/m)	QPEAK MARGIN (dB)
0.093	-18.04	N/P	56.75	-74.78	N/A	N/A	N/A
0.099	-13.78	N/P	56.22	-69.99	N/A	N/A	N/A
0.483	-7.73	N/P	42.43	-50.16	N/A	N/A	N/A
0.964	-14.74	N/A	N/A	N/A	N/P	-31.17	-32.36
Comments:	No more spurious emissions detected.						

RADIATED EMISSION LIMITS – TABULATED RESULTS					
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 30 MHz TO 1 GHz / POSITION 1					EMI4453
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	QPEAK LEVEL (dBµV/m)	QPEAK LIMIT (dBµV/m)	QPEAK MARGIN (dB)
44.874	Vertical	30.02	N/P	98.35	-68.33
50.338	Vertical	29.52	N/P	98.35	-68.83
56.708	Vertical	34.79	N/P	98.35	-63.56
78.954	Vertical	28.18	N/P	98.35	-70.17
211.719	Vertical	30.33	N/P	98.35	-68.02
399.291	Vertical	34.10	N/P	98.35	-64.25
44.809	Horizontal	21.66	N/P	98.35	-76.69
56.644	Horizontal	30.44	N/P	98.35	-67.91
61.364	Horizontal	20.09	N/P	98.35	-78.26
174.826	Horizontal	25.33	N/P	98.35	-73.02
399.615	Horizontal	30.21	N/P	98.35	-68.14
513.981	Horizontal	29.31	N/P	98.35	-69.04
COMMENT:	When margin between peak measurements and QPeak limit is greater than 6dB, no QPeak measurements were performed.				

RADIATED EMISSION LIMITS – TABULATED RESULTS					
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 30 MHz TO 1 GHz / POSITION 2					EMI4454
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	QPEAK LEVEL (dBµV/m)	QPEAK LIMIT (dBµV/m)	QPEAK MARGIN (dB)
45.327	Vertical	28.95	N/P	98.35	-69.40
50.112	Vertical	29.40	N/P	98.35	-68.95
56.126	Vertical	35.04	N/P	98.35	-63.31
79.181	Vertical	28.86	N/P	98.35	-69.49
401.846	Vertical	33.33	N/P	46	-12.67
402.331	Vertical	32.58	N/P	46	-13.42
44.906	Horizontal	21.26	N/P	98.35	-77.09
50.209	Horizontal	21.94	N/P	98.35	-76.41
56.805	Horizontal	30.69	N/P	98.35	-67.66
78.728	Horizontal	18.87	N/P	98.35	-79.48
173.274	Horizontal	22.31	N/P	98.35	-76.04
399.421	Horizontal	32.01	N/P	98.35	-66.34
COMMENT:	When margin between peak measurements and QPeak limit is greater than 6dB, no QPeak measurements were performed.				

RADIATED EMISSION LIMITS – TABULATED RESULTS					
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 30 MHz TO 1 GHz / POSITION 3					EMI4455
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	QPEAK LEVEL (dBμV/m)	QPEAK LIMIT (dBμV/m)	QPEAK MARGIN (dB)
45.327	Vertical	30.34	N/P	98.35	-68.01
50.144	Vertical	29.40	N/P	98.35	-68.95
54.703	Vertical	27.22	N/P	98.35	-71.13
56.644	Vertical	33.76	N/P	98.35	-64.59
57.678	Vertical	29.09	N/P	98.35	-69.26
400.585	Vertical	33.01	N/P	46	-12.99
50.080	Horizontal	21.59	N/P	98.35	-76.76
56.644	Horizontal	31.74	N/P	98.35	-66.61
397.804	Horizontal	31.34	N/P	98.35	-67.01
398.354	Horizontal	32.89	N/P	98.35	-65.46
399.647	Horizontal	31.14	N/P	98.35	-67.21
404.626	Horizontal	31.16	N/P	46	-14.84
COMMENT:	When margin between peak measurements and QPeak limit is greater than 6dB, no QPeak measurements were performed.				

RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 1 GHz TO 18 GHz / POSITION 1						EMI4918	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBμV/m)	AVERAGE LIMIT (dBμV/m)	AVERAGE MARGIN (dB)
1975.80	Vertical	43.52	100	-56.48	N/P	N/A	N/P
5496.74	Vertical	47.55	100	-52.45	N/P	N/A	N/P
7437.15	Vertical	46.40	74	-27.60	N/P	54	N/P
11000.33	Vertical	53.56	74	-20.44	42.30	54	-11.70
13321.07	Vertical	50.17	74	-23.83	N/P	54	N/P
16485.66	Vertical	50.45	100	-49.55	N/P	N/A	N/P
2340.49	Horizontal	41.20	74	-32.80	N/P	54	N/P
2815.85	Horizontal	40.98	74	-33.02	N/P	54	N/P
5493.98	Horizontal	58.00	100	-42.00	N/P	N/A	N/P
7311.10	Horizontal	46.45	74	-27.55	N/P	54	N/P
11000.33	Horizontal	57.89	74	-16.11	48.05	54	-5.95
16494.67	Horizontal	50.59	100	-49.41	N/P	N/A	N/P
Comments:	When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed.						

RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 1 GHz TO 18 GHz / POSITION 2						EMI4919	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBμV/m)	AVERAGE LIMIT (dBμV/m)	AVERAGE MARGIN (dB)
1718.85	Vertical	40.94	74	-33.06	N/P	54	N/P
1719.65	Vertical	40.30	74	-33.70	N/P	54	N/P
1723.65	Vertical	44.66	100	-55.34	N/P	N/A	N/P
5497.35	Vertical	52.38	100	-47.62	N/P	N/A	N/P
7579.76	Vertical	46.22	74	-27.78	N/P	54	N/P
10998.25	Vertical	54.78	74	-19.22	39.19	54	-14.81
1713.51	Horizontal	43.84	100	-56.16	N/P	N/A	N/P
1717.25	Horizontal	41.68	100	-58.32	N/P	N/A	N/P
1727.65	Horizontal	41.63	100	-58.37	N/P	N/A	N/P
5493.06	Horizontal	57.21	100	-42.79	N/P	N/A	N/P
7374.58	Horizontal	46.18	74	-27.82	N/P	54	N/P
10996.87	Horizontal	58.87	74	-15.13	48.33	54	-5.67
Comments:	When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed.						

RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 1 GHz TO 18 GHz / POSITION 3						EMI4920	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	PEAK LIMIT (dBµV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	AVERAGE MARGIN (dB)
2340.76	Vertical	39.59	74	-34.41	N/P	54	N/P
2540.64	Vertical	40.86	100	-59.14	N/P	N/A	N/P
5493.37	Vertical	55.72	100	-44.28	N/P	N/A	N/P
7528.85	Vertical	46.08	74	-27.92	N/P	54	N/P
10996.87	Vertical	57.26	74	-16.74	46.01	54	-7.99
2937.46	Horizontal	40.14	100	-59.86	N/P	N/A	N/P
5497.35	Horizontal	55.95	100	-44.05	N/P	N/A	N/P
7444.82	Horizontal	46.63	100	-53.37	N/P	N/A	N/P
10992.01	Horizontal	57.75	74	-16.25	47.65	54	-6.35
Comments:	When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed. No more spurious emissions detected.						

RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 1 GHz TO 18 GHz / POSITION 4						EMI4921	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	PEAK LIMIT (dBµV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	AVERAGE MARGIN (dB)
2340.89	Vertical	40.00	74	-34.00	N/P	54	N/P
2499.03	Vertical	40.94	74	-33.06	N/P	54	N/P
10997.56	Vertical	55.85	74	-18.15	45.27	54	-8.73
16497.45	Vertical	50.76	100	-49.24	N/P	N/A	N/P
1045.47	Horizontal	36.48	74	-37.52	N/P	54	N/P
11003.11	Horizontal	57.70	74	-16.30	47.74	54	-6.26
16507.85	Horizontal	51.89	100	-48.11	N/P	N/A	N/P
Comments:	When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed. No more spurious emissions detected.						

RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 1 GHz TO 18 GHz / POSITION 5						EMI4922	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBμV/m)	AVERAGE LIMIT (dBμV/m)	AVERAGE MARGIN (dB)
11000.33	Vertical	59.75	74	-14.25	49.55	54	-4.45
16495.37	Vertical	51.31	100	-48.69	N/P	N/A	N/P
1263.75	Horizontal	42.35	100	-57.65	N/P	N/A	N/P
11001.03	Horizontal	54.95	74	-19.05	45.82	54	-8.18
16509.93	Horizontal	51.24	100	-48.76	N/P	N/A	N/P
Comments:	When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed. No more spurious emissions detected.						

RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 1 GHz TO 18 GHz / POSITION 6						EMI4923	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBμV/m)	AVERAGE LIMIT (dBμV/m)	AVERAGE MARGIN (dB)
11000.33	Vertical	58.05	74	-15.95	46.31	54	-7.69
12387.79	Vertical	50.32	74	-23.68	37.75	54	-16.25
16501.61	Vertical	53.03	100	-46.97	N/P	N/A	N/P
2579.17	Horizontal	40.94	100	-59.06	N/P	N/A	N/P
11007.27	Horizontal	56.73	74	-17.27	42.73	54	-11.27
16508.54	Horizontal	51.43	100	-48.57	N/P	N/A	N/P
Comments:	When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed. No more spurious emissions detected.						

RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 18 GHz TO 26.5 GHz / POSITION 1						EMI4731	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	PEAK LIMIT (dBµV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	AVERAGE MARGIN (dB)
20178.979	Vertical	53.07	83.52	-30.45	N/P	63.52	N/P
Comments:		When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed. No more spurious emission detected. In order to increase the dynamics of the measurements, these were carried out at a distance of 1 meter and the limit was recalculated.					

RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 18 GHz TO 26.5 GHz / POSITION 2						EMI4744	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	PEAK LIMIT (dBµV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	AVERAGE MARGIN (dB)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:		When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed. No spurious emission detected. In order to increase the dynamics of the measurements, these were carried out at a distance of 1 meter and the limit was recalculated.					

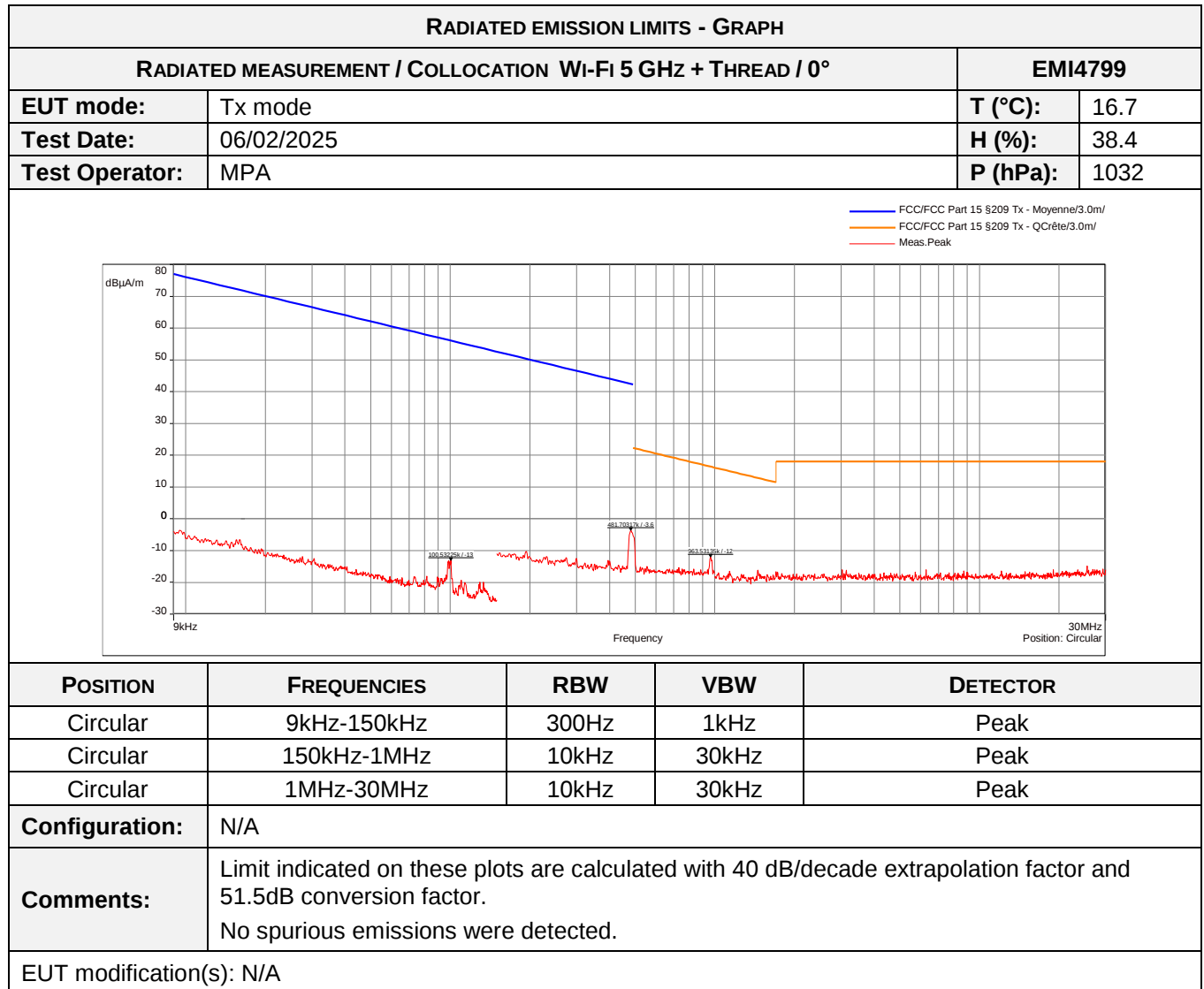
RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 18 GHz TO 26.5 GHz / POSITION 3						EMI4757	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	PEAK LIMIT (dBµV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	AVERAGE MARGIN (dB)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:		When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed. No spurious emission detected. In order to increase the dynamics of the measurements, these were carried out at a distance of 1 meter and the limit was recalculated.					

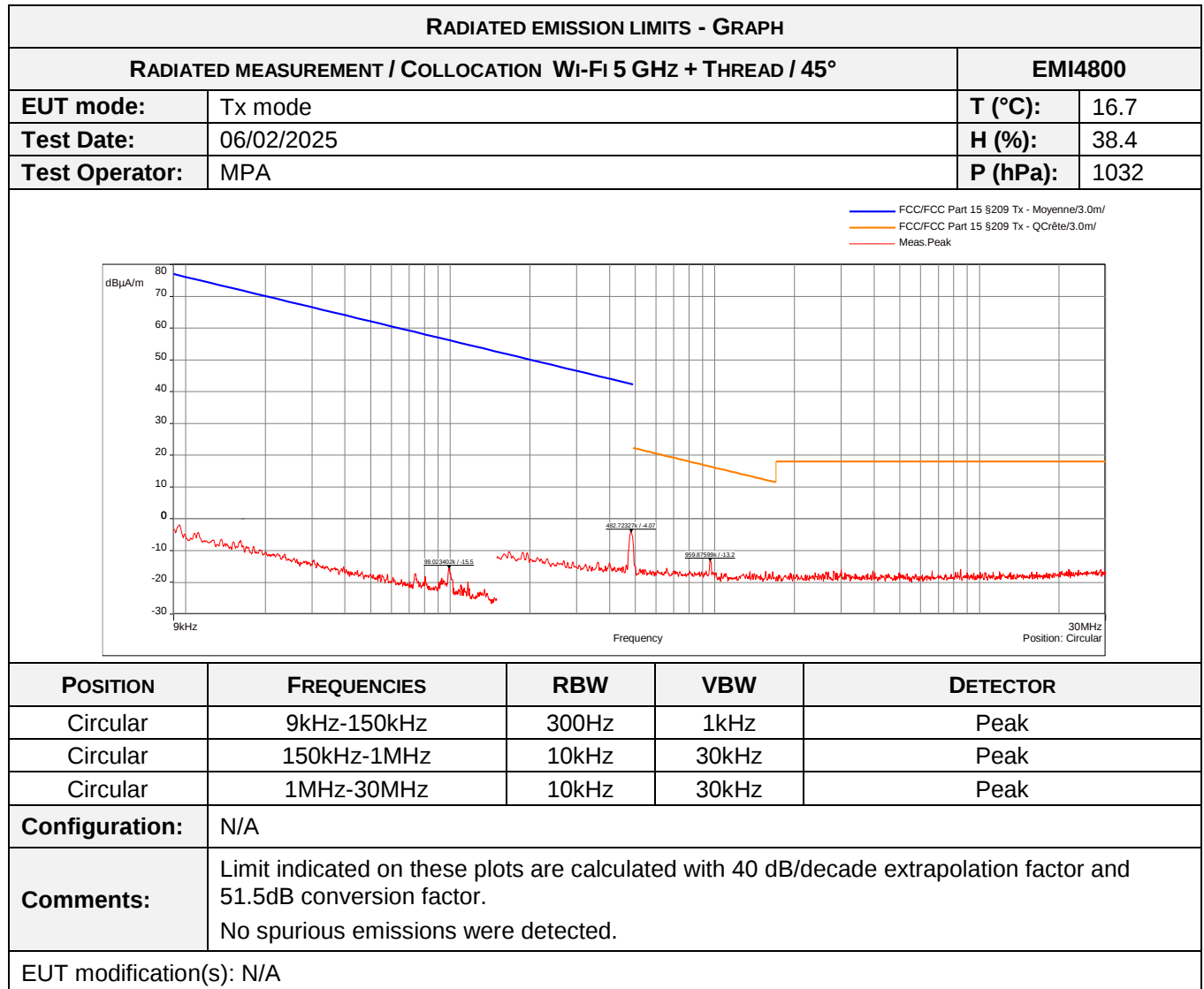
RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 18 GHz TO 26.5 GHz / POSITION 4						EMI4770	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBμV/m)	AVERAGE LIMIT (dBμV/m)	AVERAGE MARGIN (dB)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:		When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed. No spurious emission detected. In order to increase the dynamics of the measurements, these were carried out at a distance of 1 meter and the limit was recalculated.					

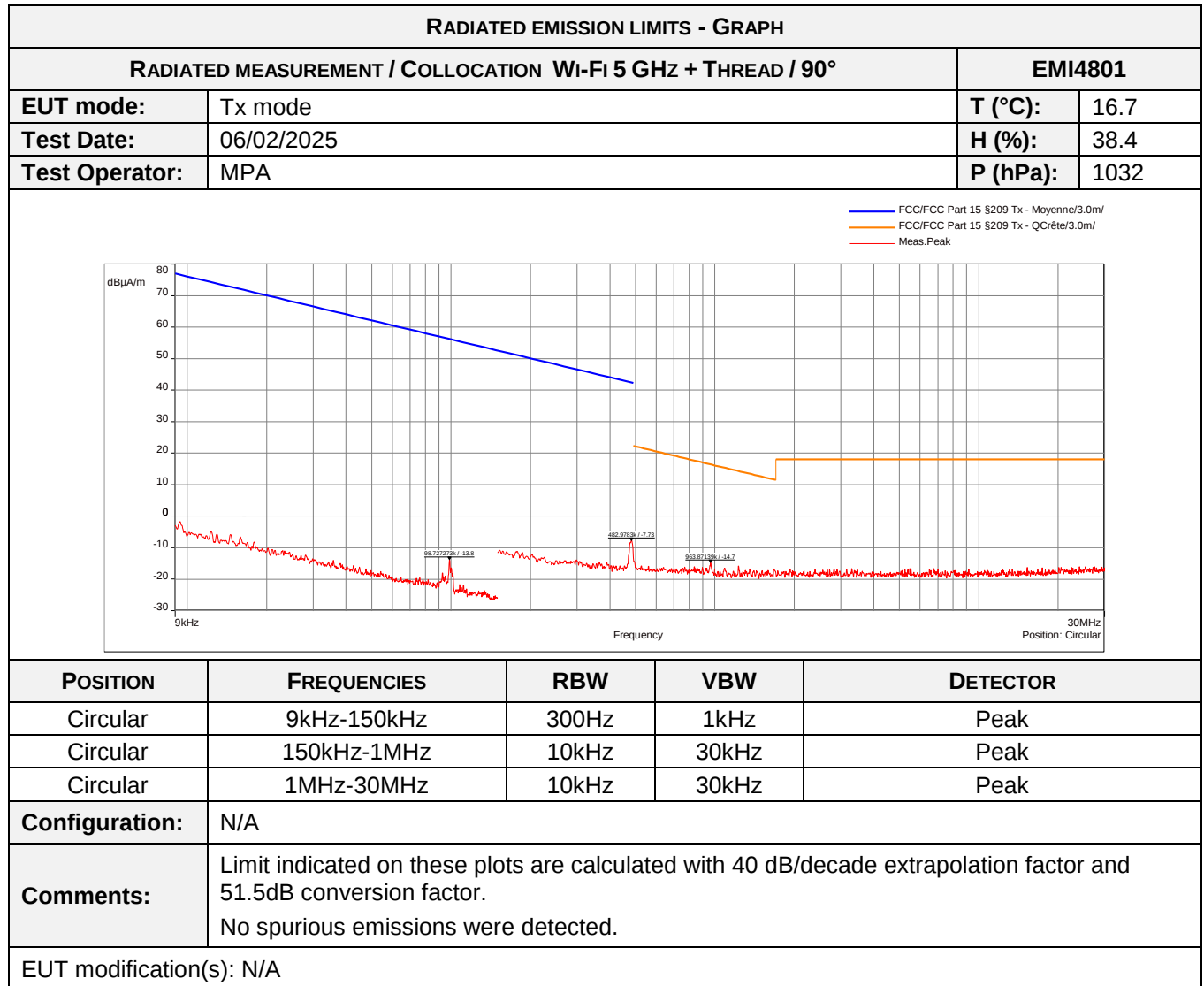
RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 18 GHz TO 26.5 GHz / POSITION 5						EMI4796	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBμV/m)	AVERAGE LIMIT (dBμV/m)	AVERAGE MARGIN (dB)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:		When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed. No spurious emission detected. In order to increase the dynamics of the measurements, these were carried out at a distance of 1 meter and the limit was recalculated.					

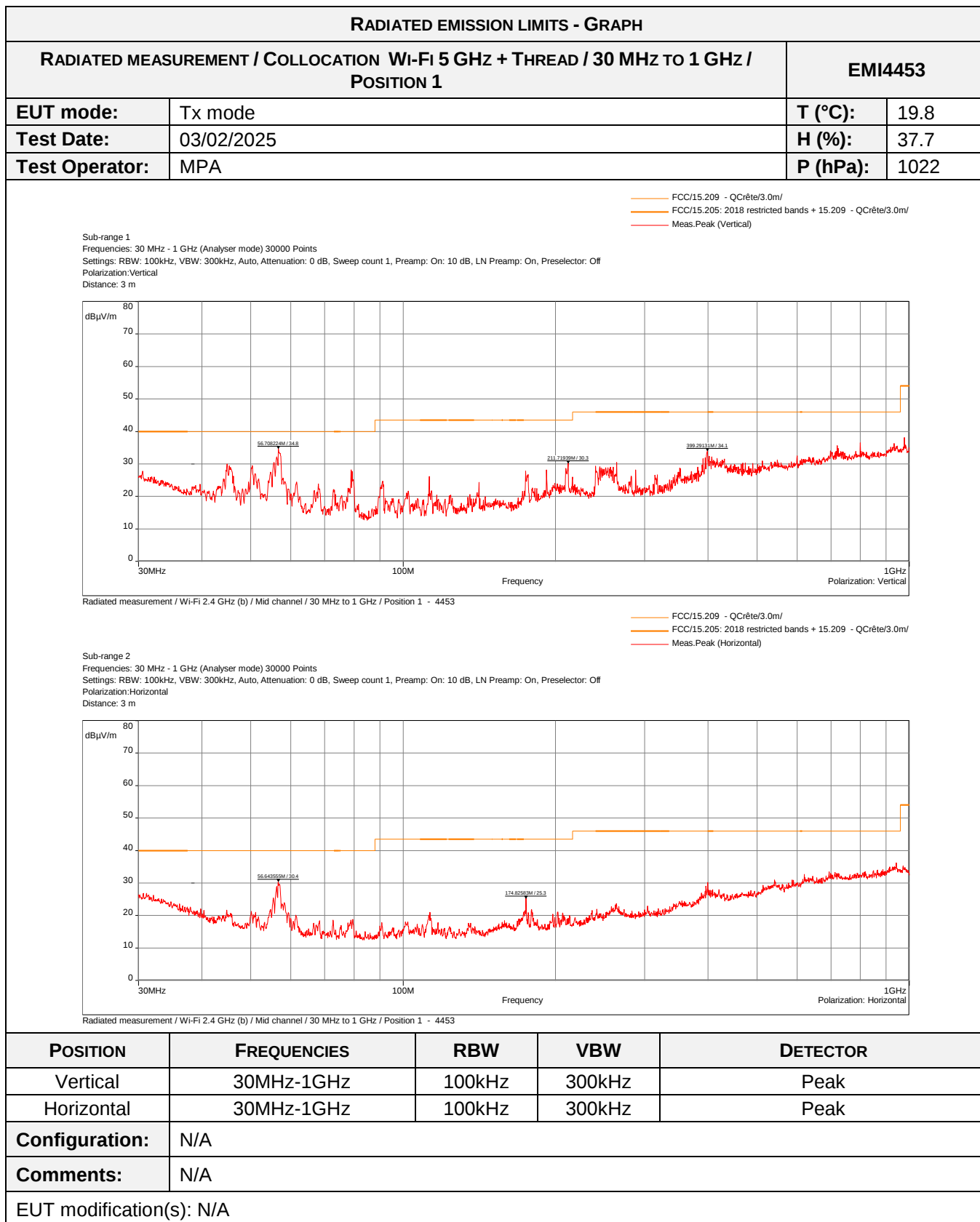
RADIATED EMISSION LIMITS – TABULATED RESULTS							
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 18 GHz TO 26.5 GHz / POSITION 6						EMI4783	
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	PEAK MARGIN (dB)	AVERAGE LEVEL (dBμV/m)	AVERAGE LIMIT (dBμV/m)	AVERAGE MARGIN (dB)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:		When margin between peak measurements and Average limit is greater than 6dB, no Average measurements were performed. No spurious emission detected. In order to increase the dynamics of the measurements, these were carried out at a distance of 1 meter and the limit was recalculated.					

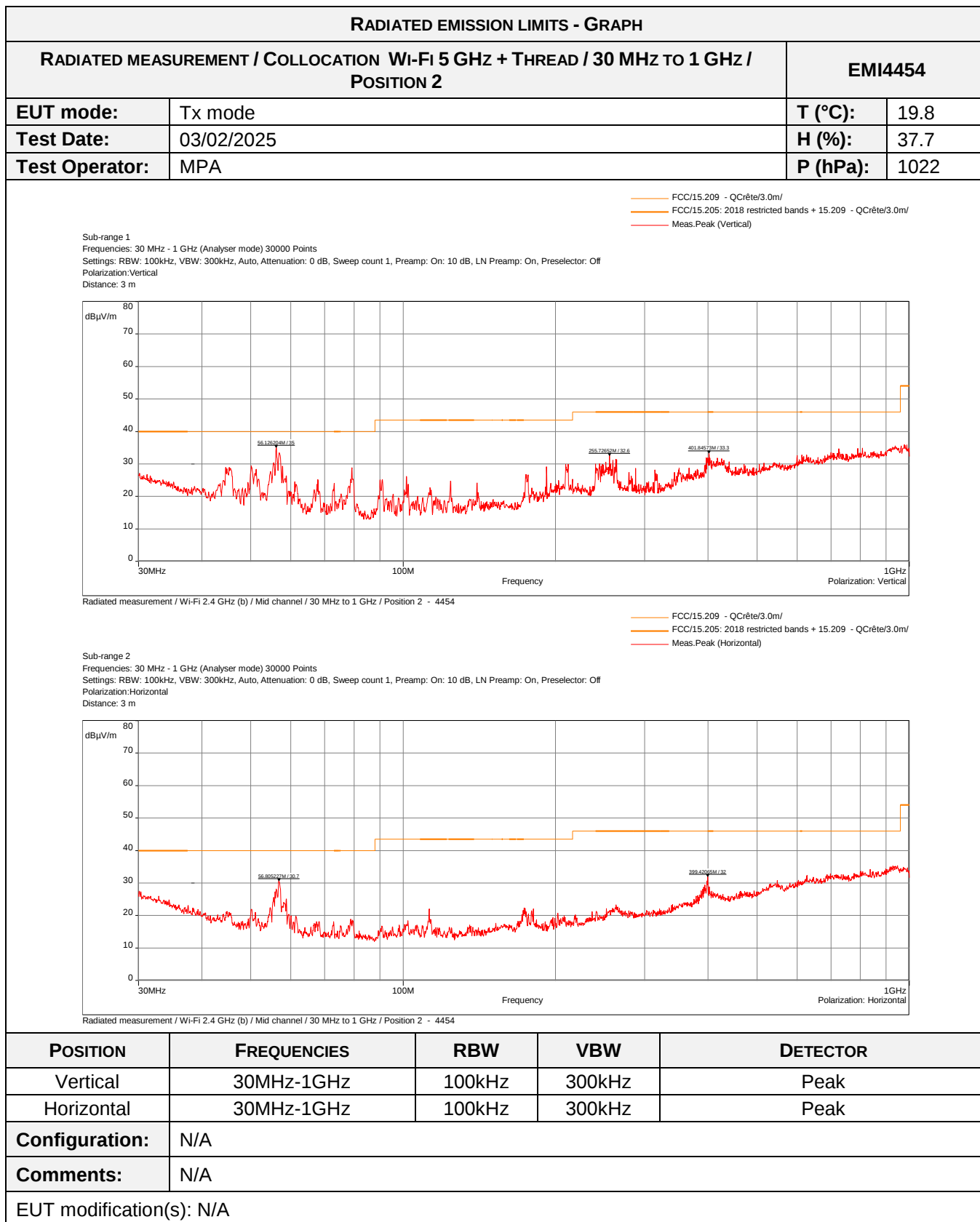
Above 26.5GHz, no spurious emissions were detected.

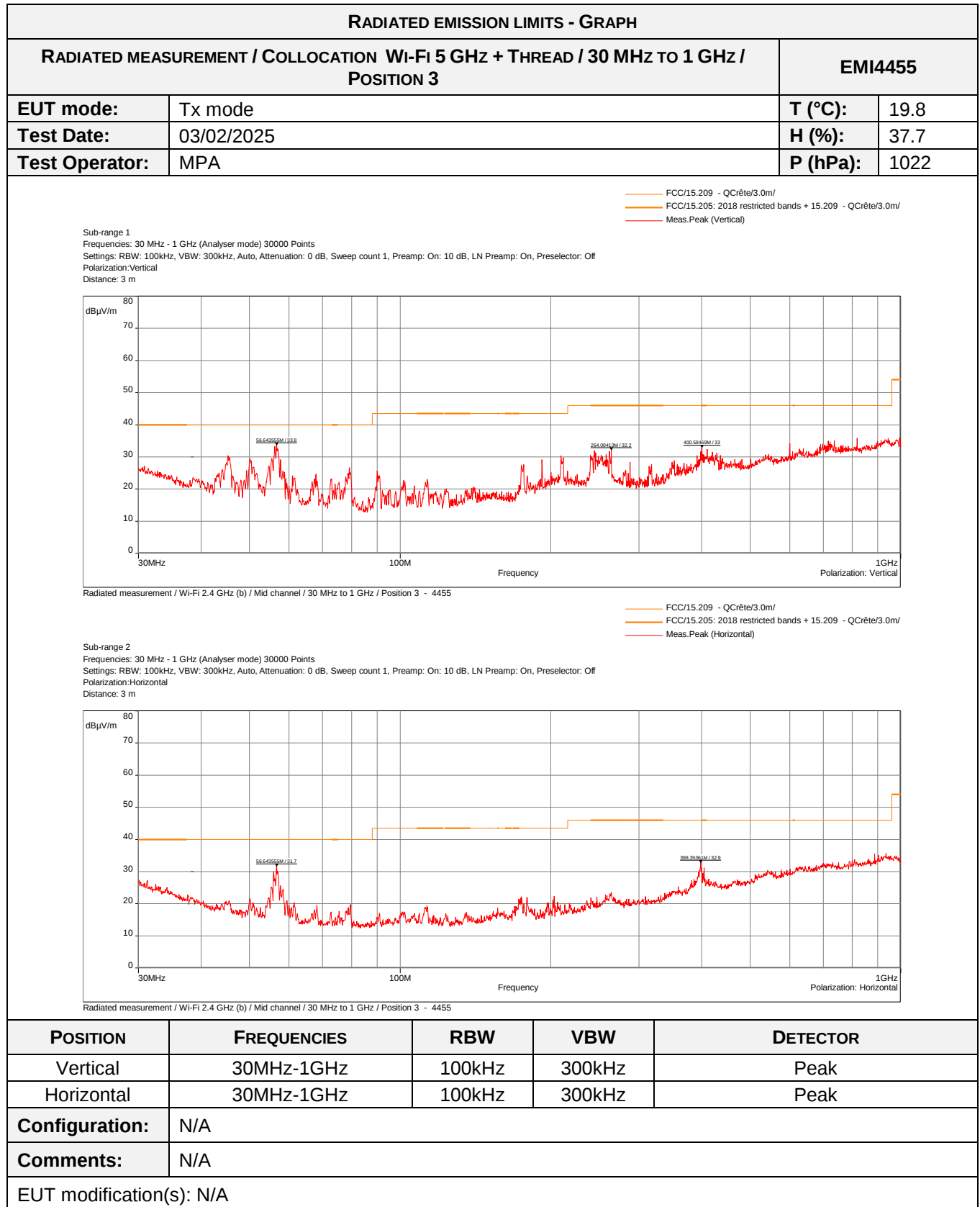


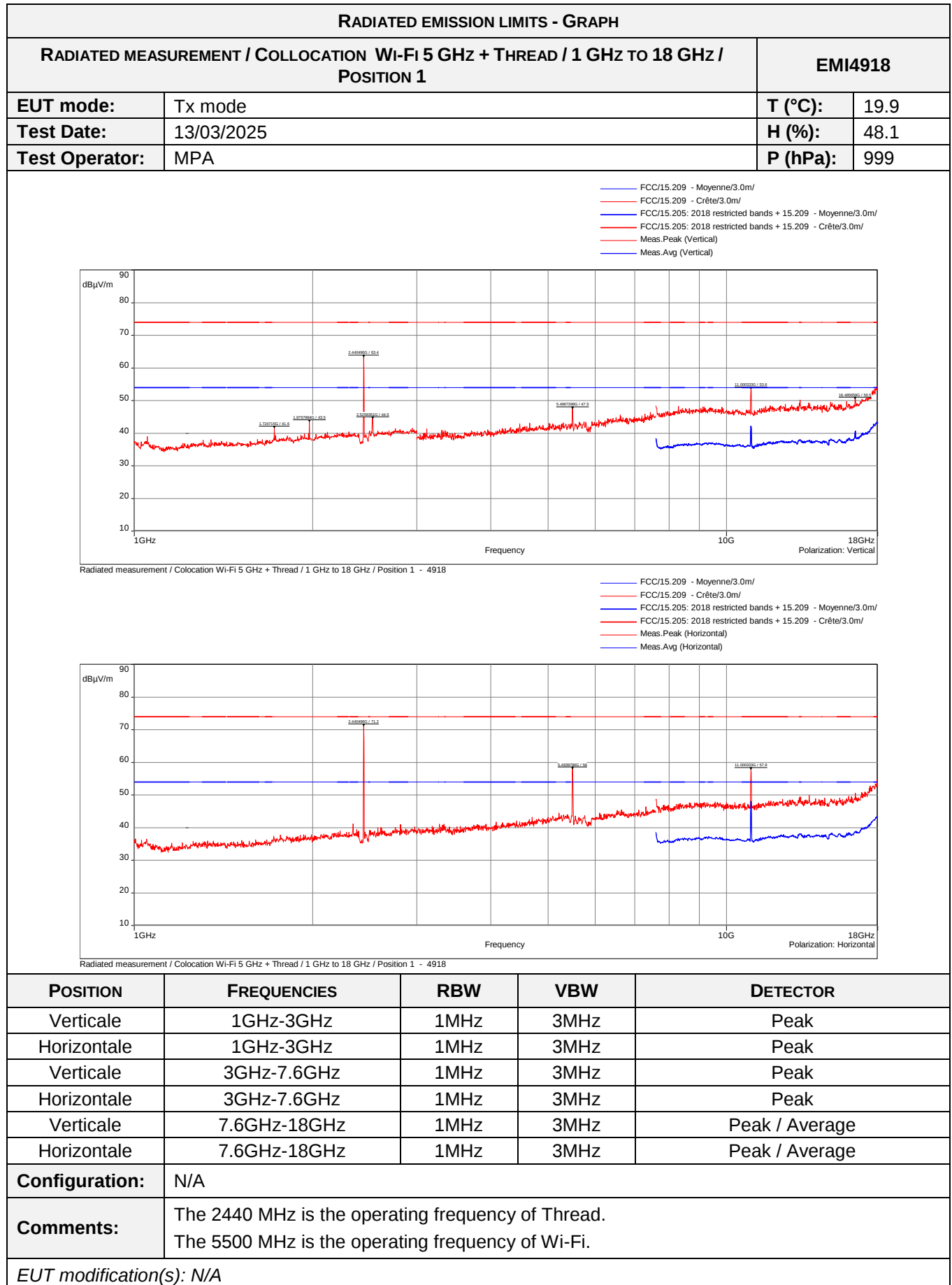


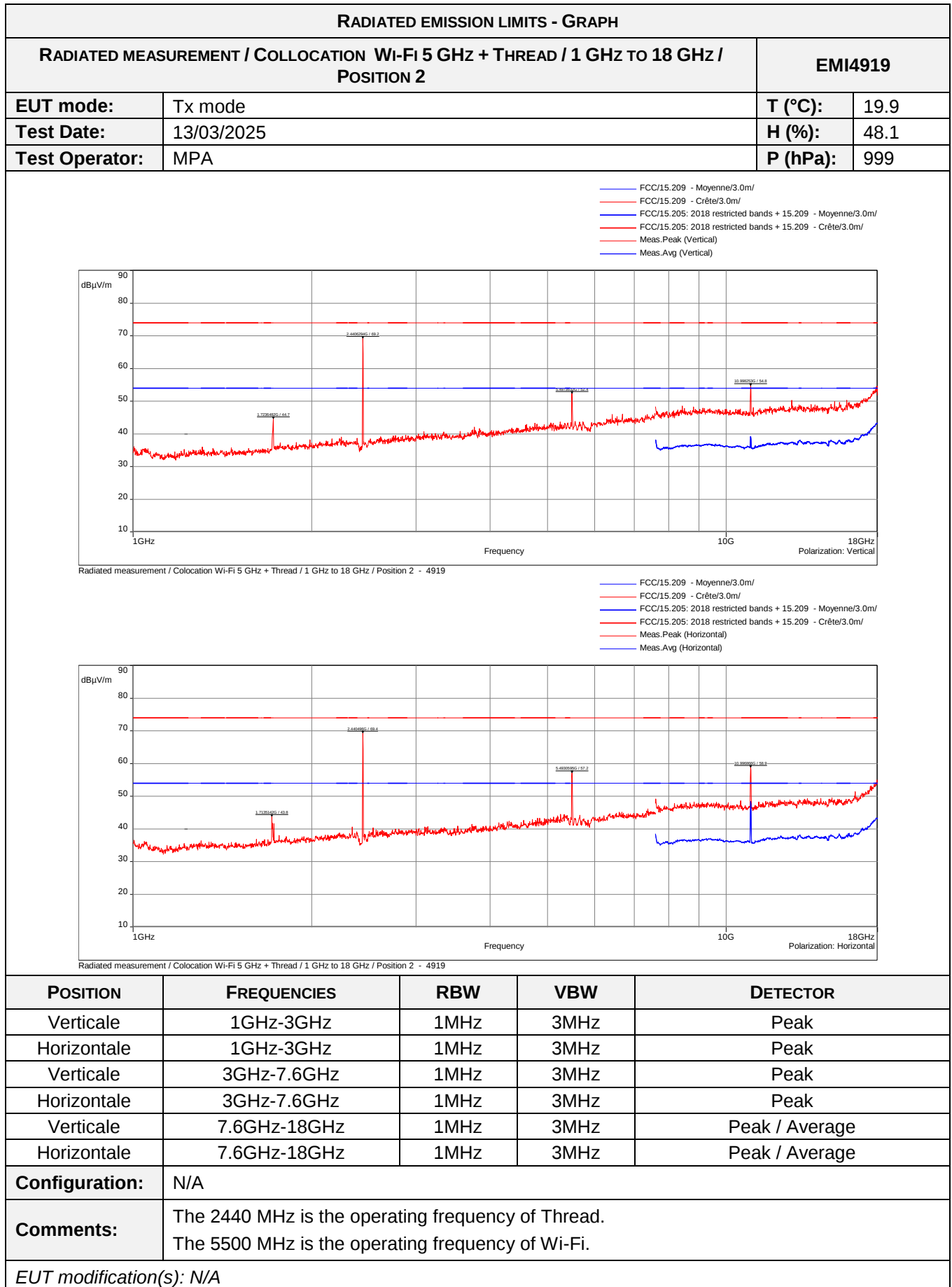


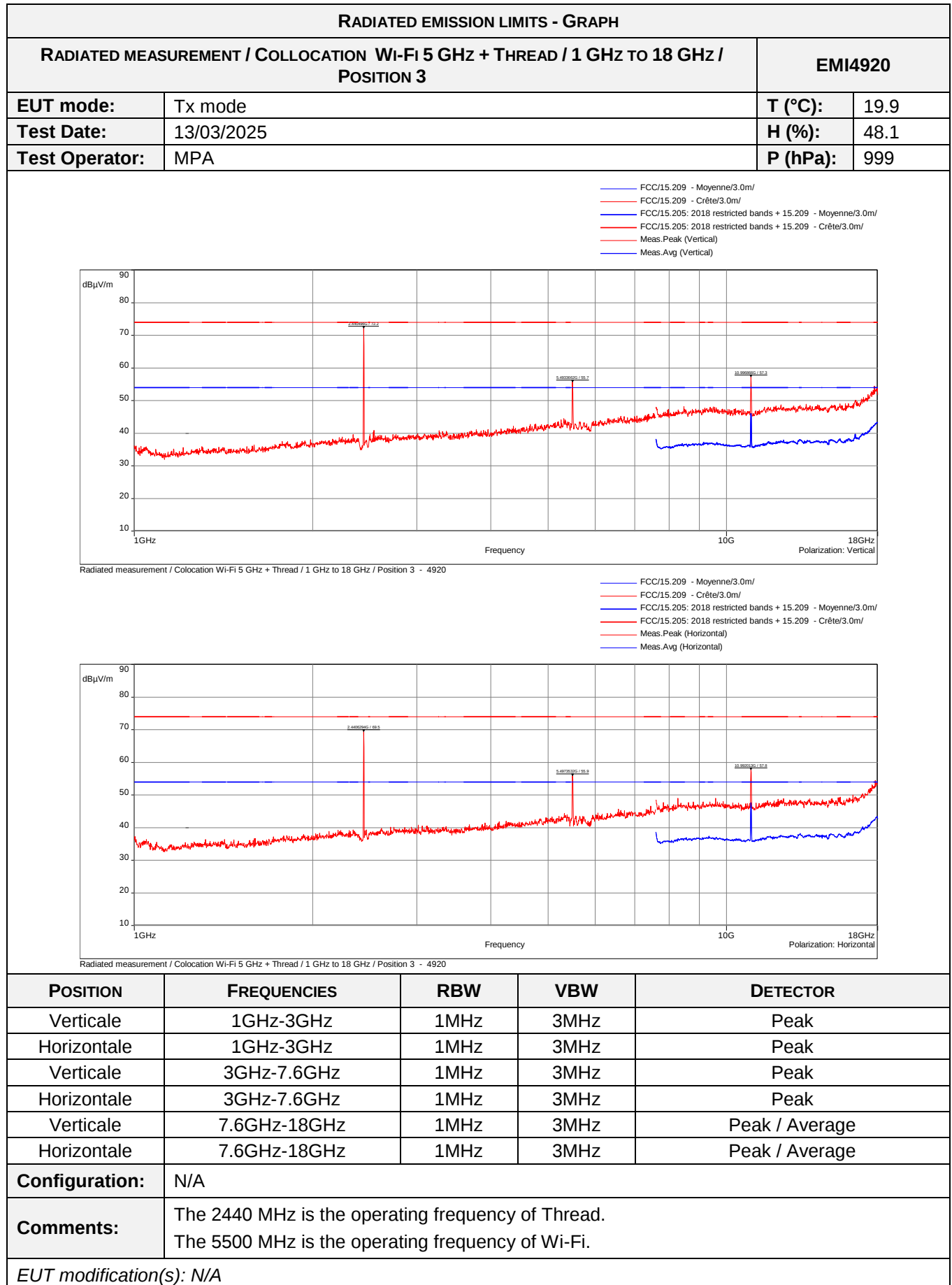


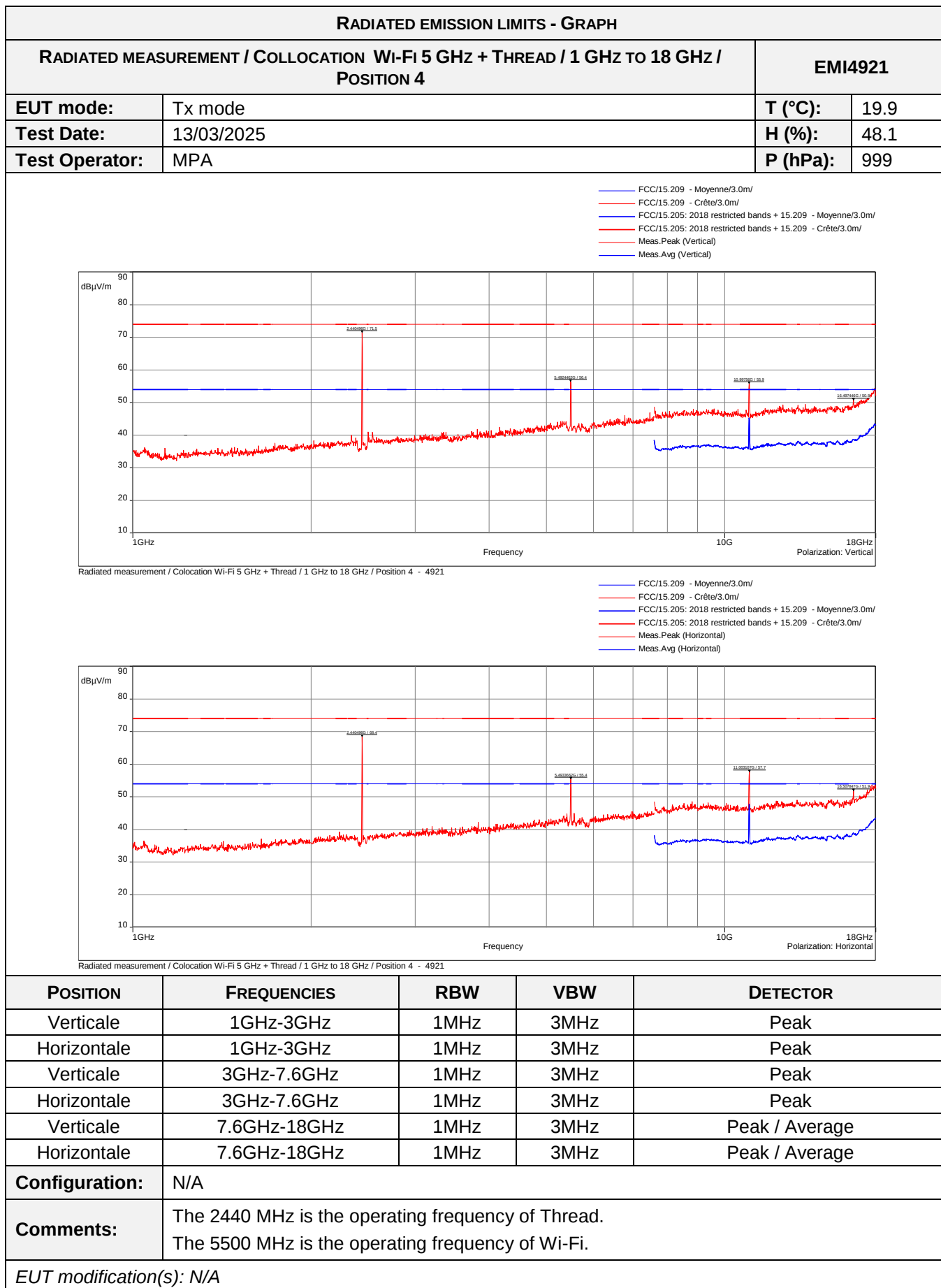


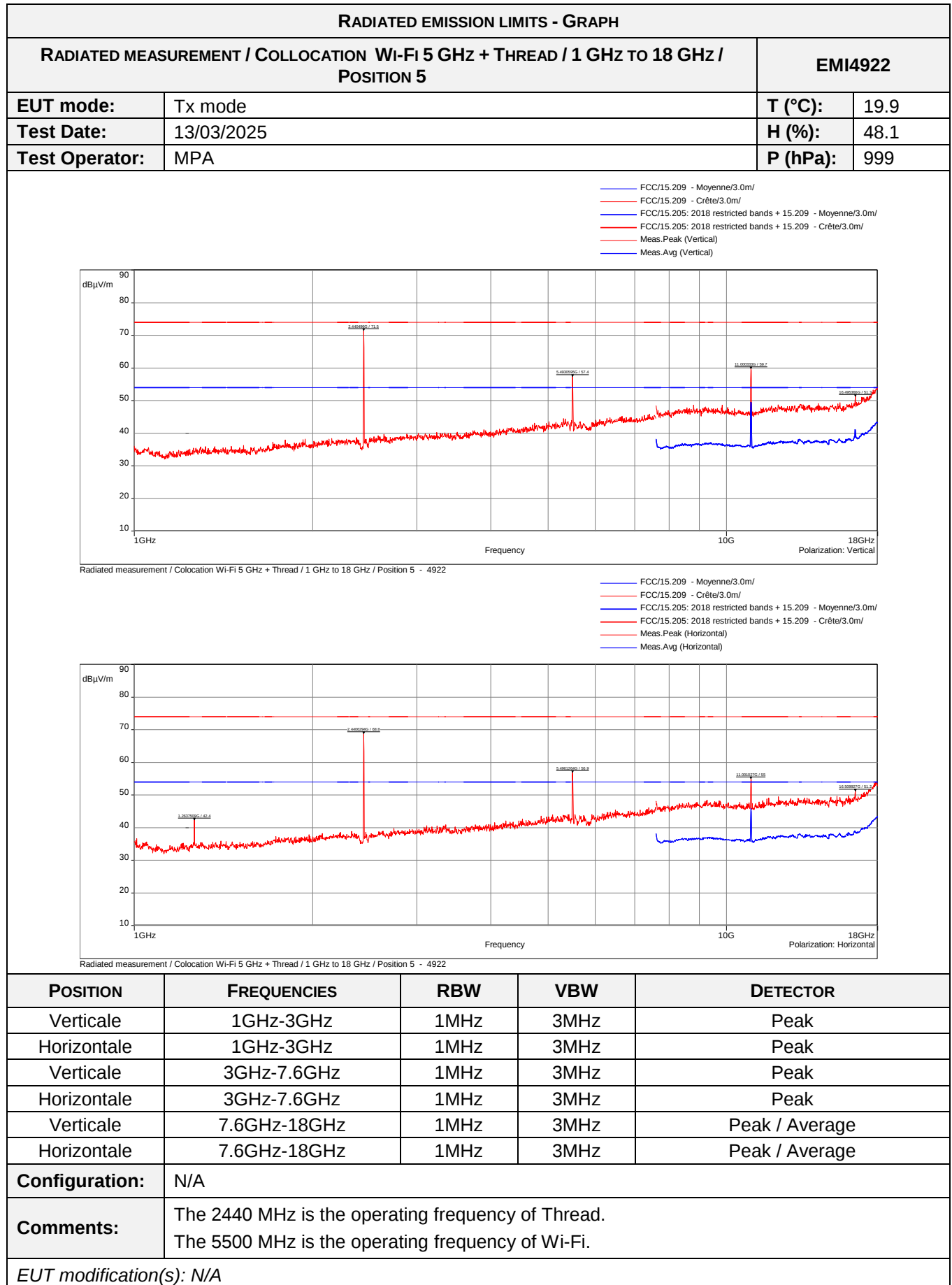


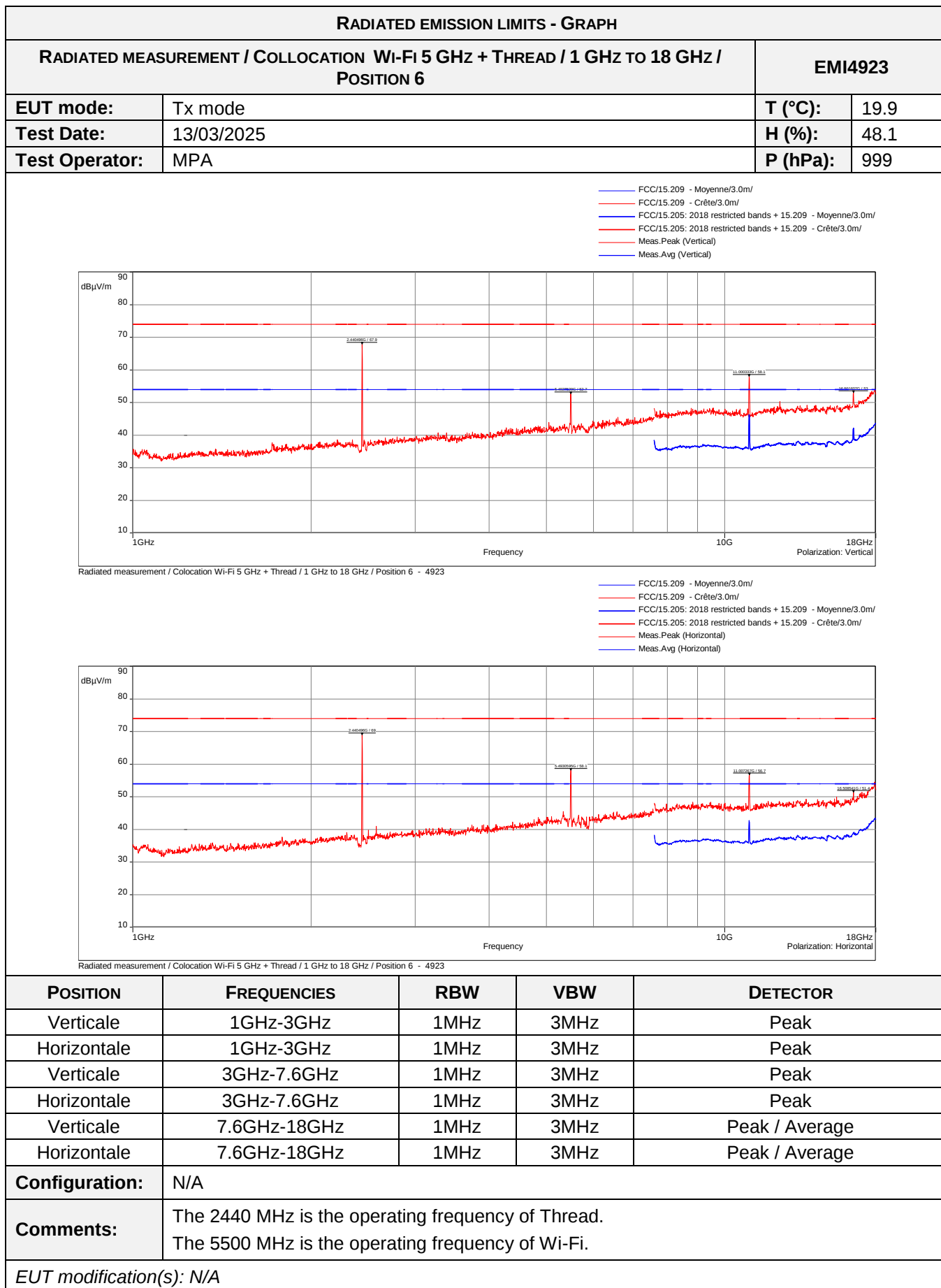


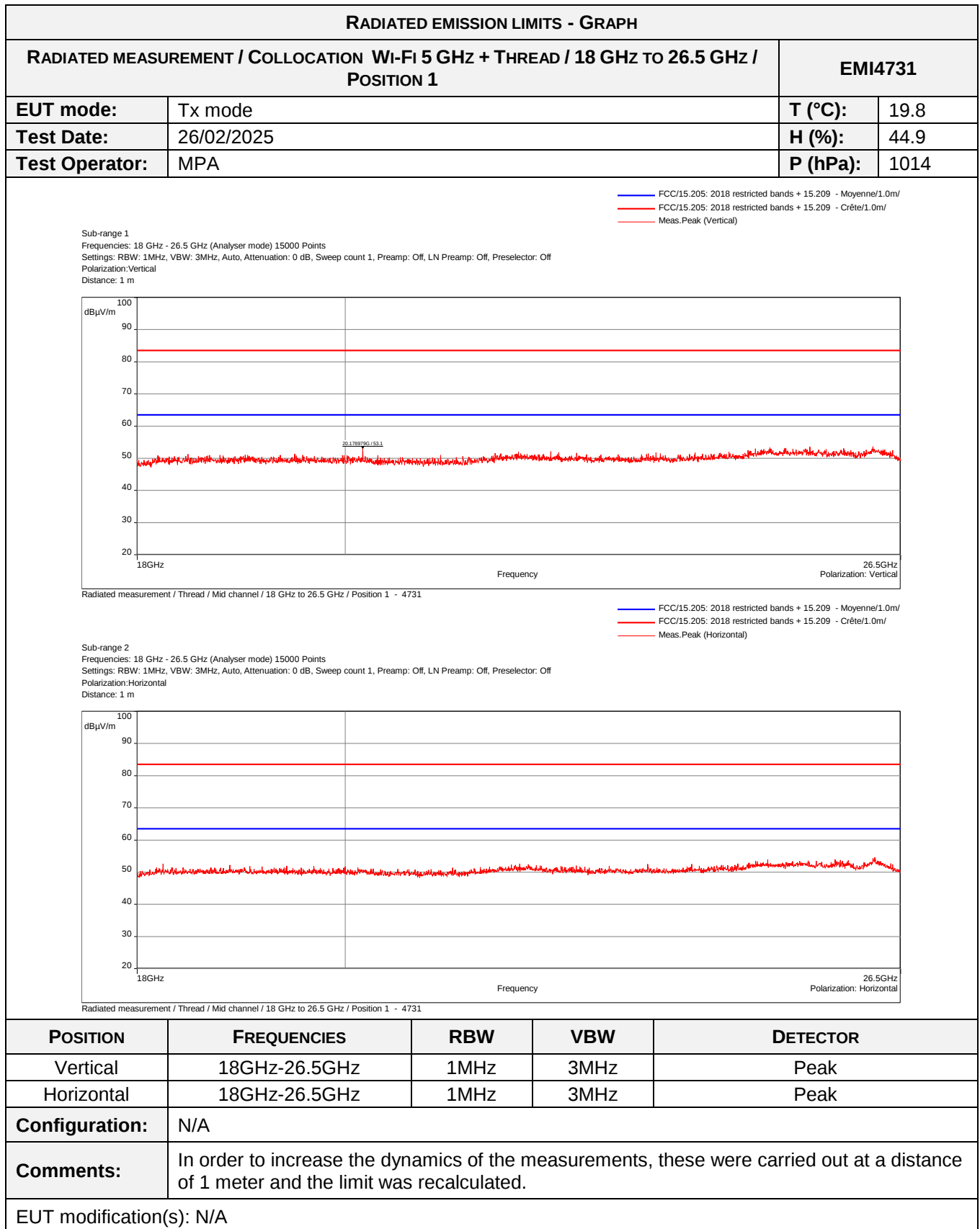


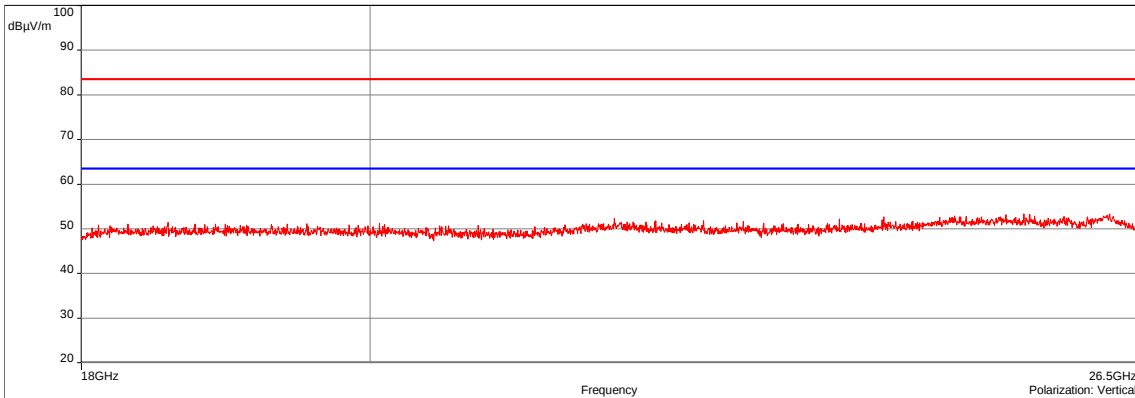
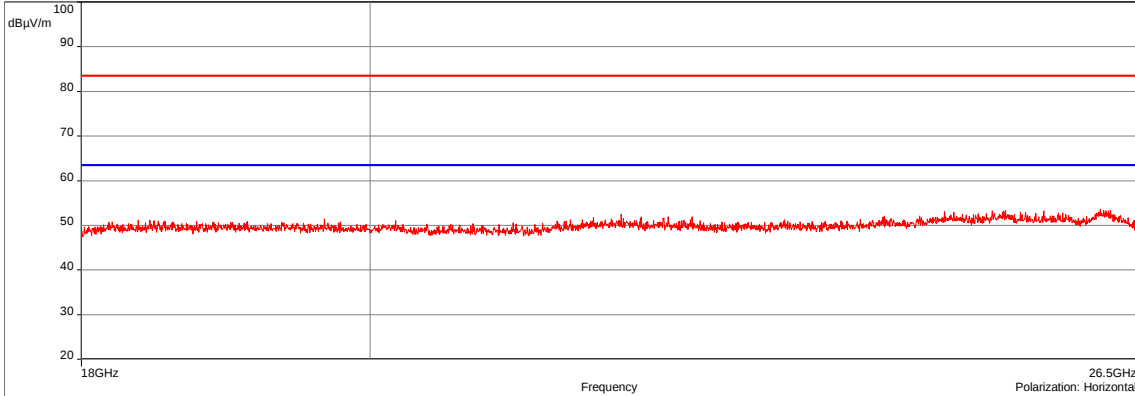










RADIATED EMISSION LIMITS - GRAPH					
RADIATED MEASUREMENT / COLLOCATION Wi-Fi 5 GHz + THREAD / 18 GHz TO 26.5 GHz / POSITION 2				EMI4744	
EUT mode:		Tx mode		T (°C):	19.8
Test Date:		26/02/2025		H (%):	44.9
Test Operator:		MPA		P (hPa):	1014
Sub-range 1 Frequencies: 18 GHz - 26.5 GHz (Analyser mode) 15000 Points Settings: RBW: 1MHz, VBW: 3MHz, Auto, Attenuation: 0 dB, Sweep count 1, Preamp: Off, LN Preamp: Off, Preselector: Off Polarization: Vertical Distance: 1 m — FCC/15.205: 2018 restricted bands + 15.209 - Moyenne/1.0m/ — FCC/15.205: 2018 restricted bands + 15.209 - Crête/1.0m/ — Meas.Peak (Vertical)  Radiated measurement / Thread / Mid channel / 18 GHz to 26.5 GHz / Position 2 - 4744 Sub-range 2 Frequencies: 18 GHz - 26.5 GHz (Analyser mode) 15000 Points Settings: RBW: 1MHz, VBW: 3MHz, Auto, Attenuation: 0 dB, Sweep count 1, Preamp: Off, LN Preamp: Off, Preselector: Off Polarization: Horizontal Distance: 1 m — FCC/15.205: 2018 restricted bands + 15.209 - Moyenne/1.0m/ — FCC/15.205: 2018 restricted bands + 15.209 - Crête/1.0m/ — Meas.Peak (Horizontal)  Radiated measurement / Thread / Mid channel / 18 GHz to 26.5 GHz / Position 2 - 4744					

POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	18GHz-26.5GHz	1MHz	3MHz	Peak
Horizontal	18GHz-26.5GHz	1MHz	3MHz	Peak
Configuration:	N/A			
Comments:	In order to increase the dynamics of the measurements, these were carried out at a distance of 1 meter and the limit was recalculated.			
EUT modification(s): N/A				

