

RADIO REPORT FCC 47 CFR Part 15E Unlicensed National Information Infrastructure Devices in the 5 GHz Bands	
Report Reference No	G0M-2405-2583-TFC407WF01-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	  DAKKS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	u-blox AG
Address	Zürcherstrasse 68 8800 Thalwil Switzerland
Test Specification	47 CFR Part 15E
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
Model(s)	M2-MAYA-W271-00C
Brand Name(s)	None
Additional Models	None
Hardware Version(s)	05
Software Version(s)	01
FCC ID	XPYMAYAW2A
Test Result	PASSED

Possible test case verdicts:		
Required by standard but not tested	N/T	
Not required by standard	N/R	
Not applicable to EUT	N/A	
Test object does meet the requirement	P(PASS)	
Test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 °C - 30 °C	
Test Lab Humidity	25 % - 55 %	
Date of receipt of test item	2024-06-24	
Report:		
Compiled by	Md Abu Bakar Siddique	
Tested and tests supervised by (+ signature) (Responsible for Test)	Md Abu Bakar Siddique	
Approved by (+ signature) (Senior Radio Expert)	Radwan Jaafar	
Date of Issue	2024-11-07	
Total number of pages	31	
General Remarks:		
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. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Additional Comments:		
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VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2024-11-07	Initial Release	--

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
BPSK	Binary Phase Shift Keying
DSSS	Direct Sequence Spread Spectrum
EUT	Equipment Under Test
FCC	Federal Communications Commission
HT	High Throughput
IEEE 802.11	MAC and PHY Layer for WiFi
ISED	Innovation, Science and Economic Development Canada
OFDM	Orthogonal Frequency Division Multiplexing
QAM	Quadrature Amplitude Modulation
QPSK	Quadrature Phase Shift Keying
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V _{NOM}	Nominal supply voltage

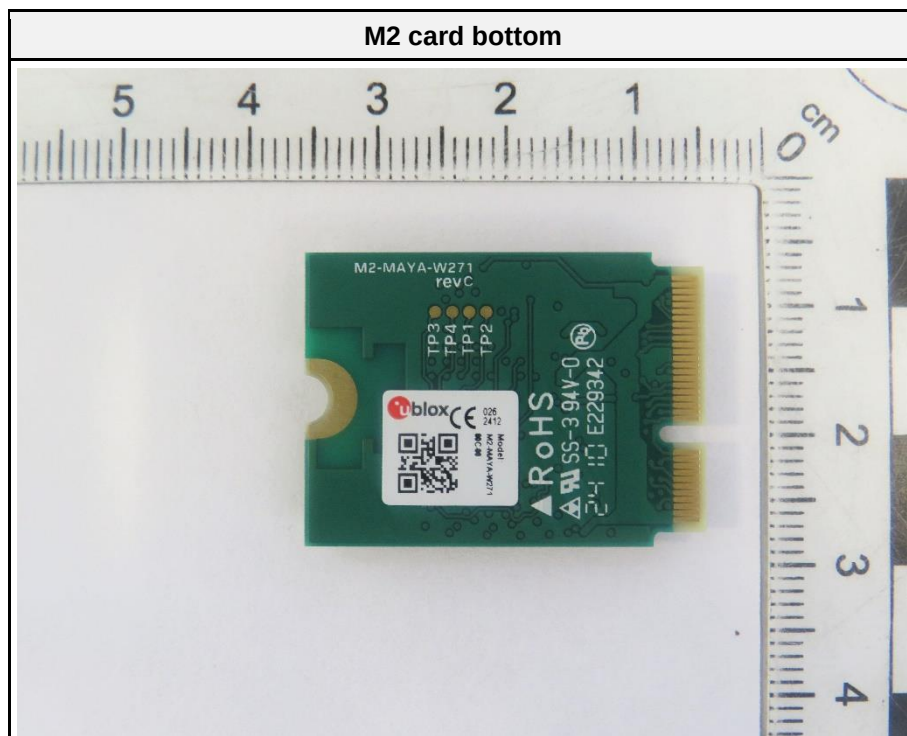
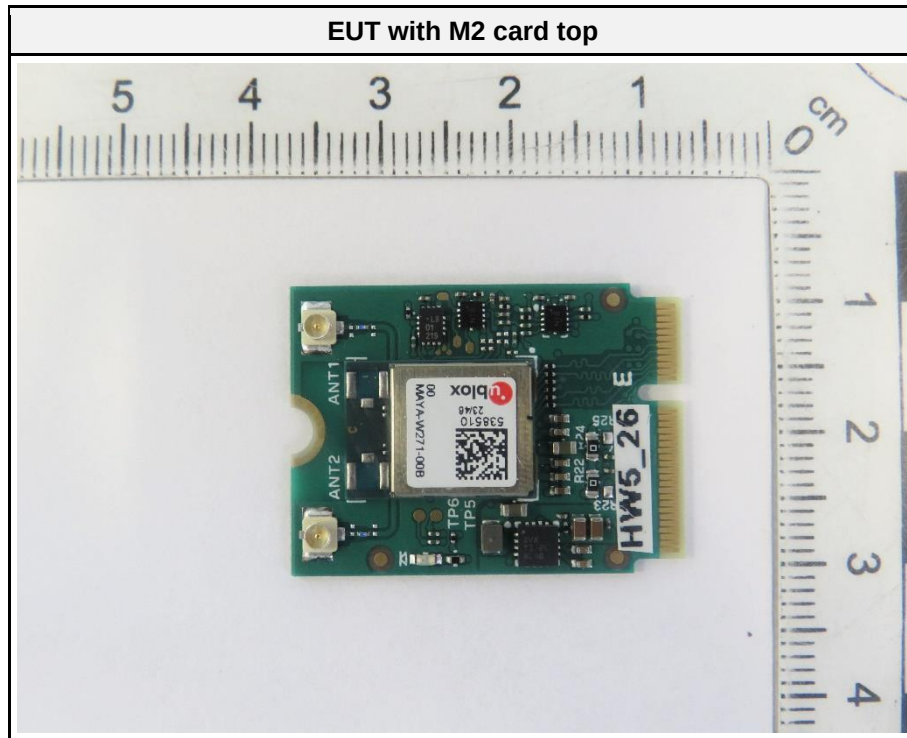
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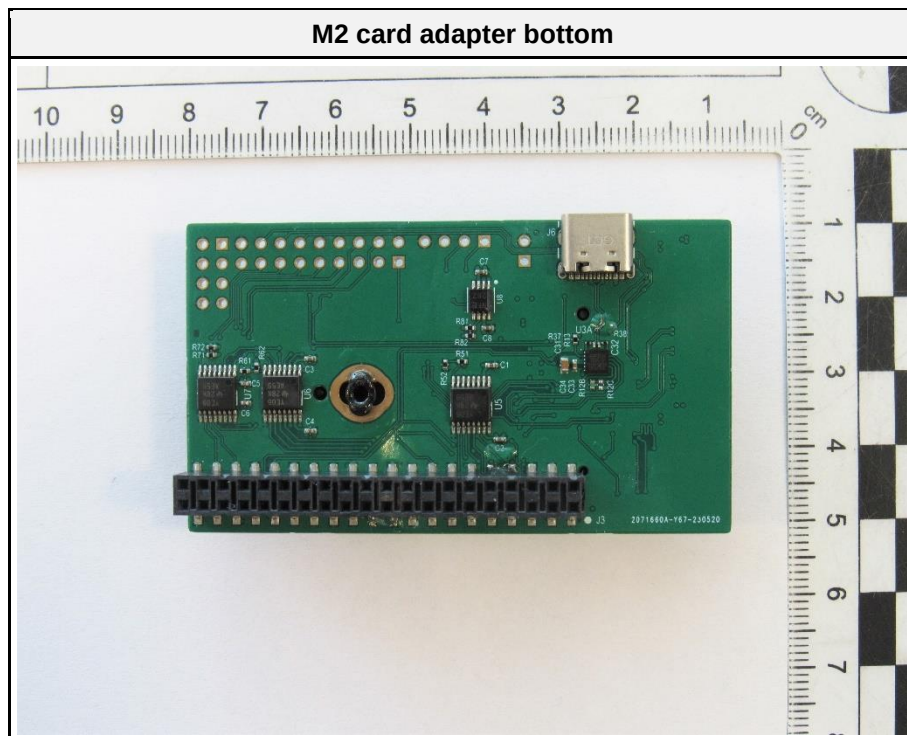
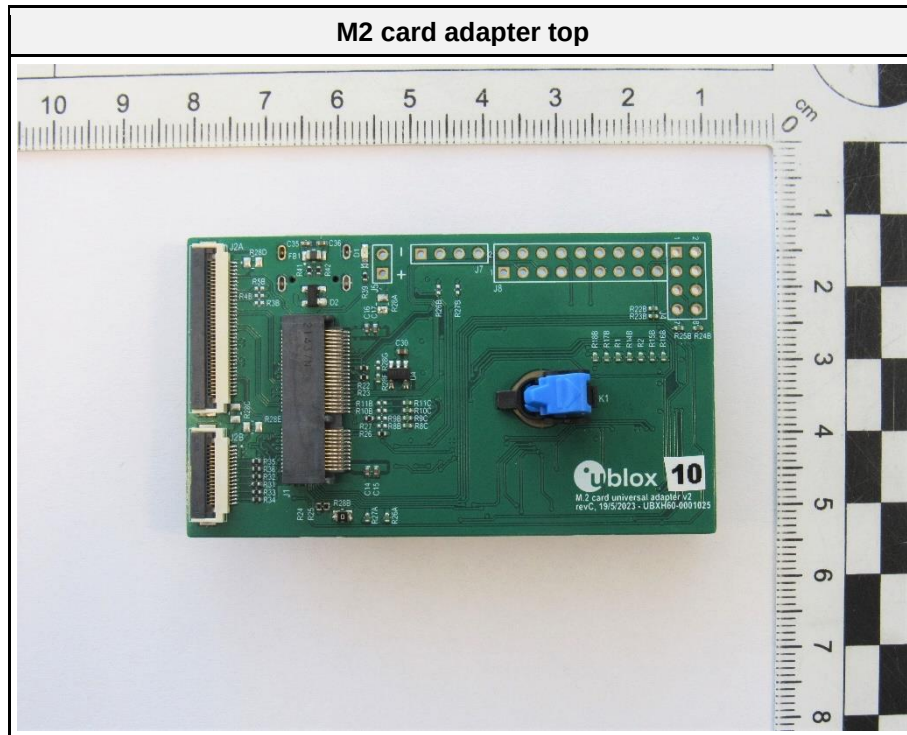
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1 Equipment (Test Item) Under Test

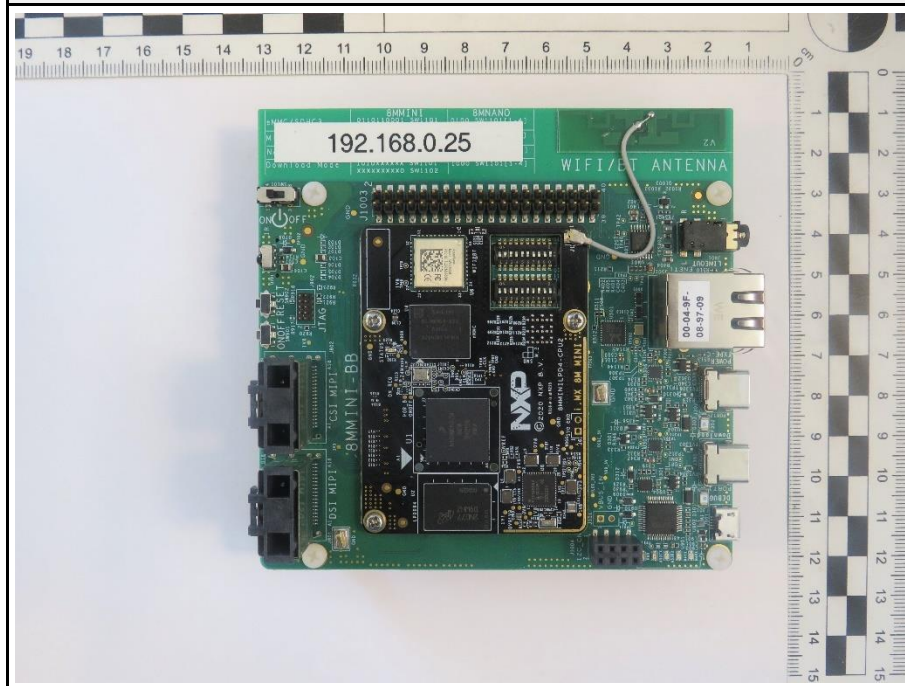
Description	M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module			
Model(s)	M2-MAYA-W271-00C			
Additional Model(s)	None			
Brand Name(s)	None			
Sample Identification	EUT #	Sample-ID	Serial Number	Date of receipt
	EUT 1	49021	HW5_26	2024-06-24
Hardware Version(s)	05			
Software Version(s)	01			
FCC ID	XPYMAW2A			
Equipment type	Radio Module			
Radio type	Transceiver			
Assigned frequency bands	5150 - 5250 MHz 5250 - 5350 MHz 5470 - 5725 MHz 5725 - 5850 MHz			
Radio technology	IEEE 802.11a IEEE 802.11n (HT20, HT40) IEEE 802.11ac (VHT20, VHT40, VHT80) IEEE 802.11ax (HE20, HE40, HE80)			
Modulation	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM			
Number of antenna ports	2 (only one port is active for WLAN)			
Radio Module	Type	WLAN 2.4/5 GHz / Bluetooth / ZigBee module		
	Model	M2-MAYA-W271-00C		
	Manufacturer	u-blox AG		
	HW Version	05		
	SW Version	01		
Antenna	Type	External antenna		
	Model	1461530050		
	Manufacturer	Molex		
	Gain	+ 4.25 dBi		
Supply Voltage	V _{NOM}	3.3 VDC		
Operating Temperature	T _{NOM}	20 °C		
AC/DC-Adaptor	None			
Manufacturer	u-blox AG Zürcherstrasse 68 8800 Thalwil Switzerland			

1.1 Photos

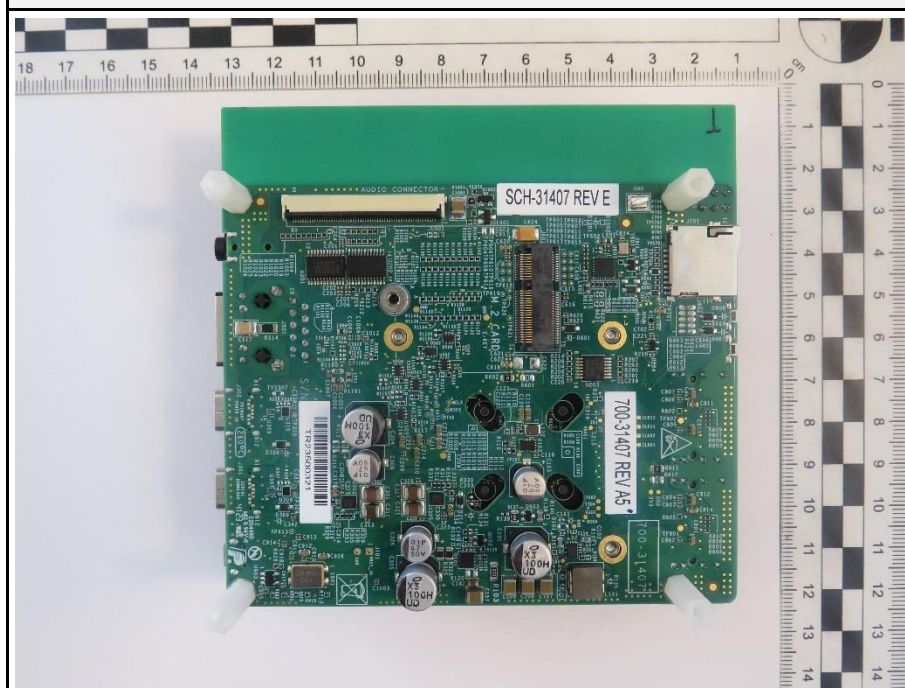


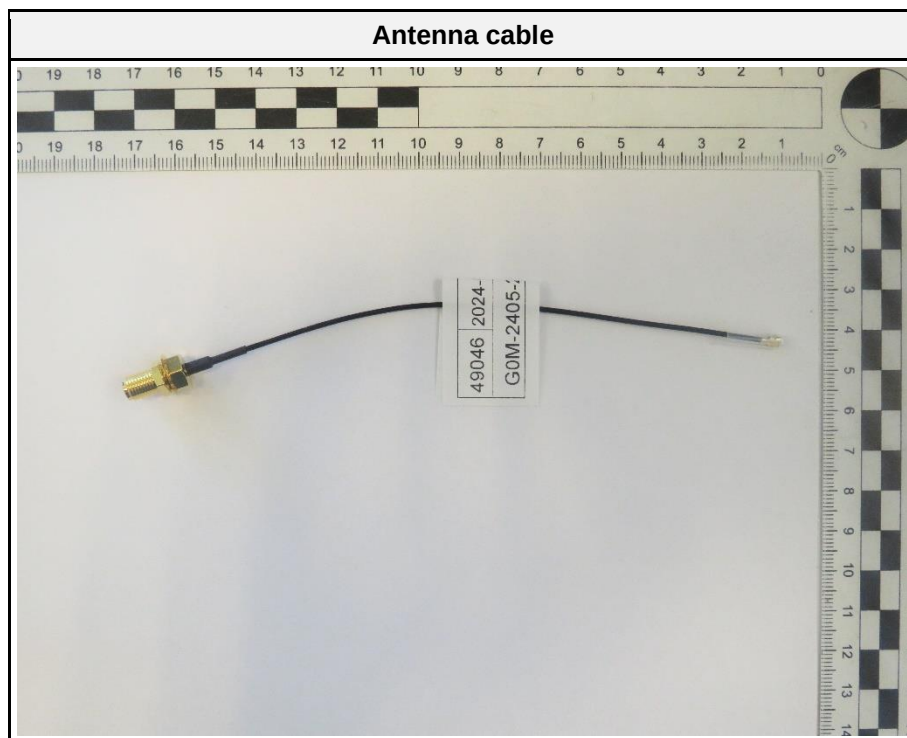
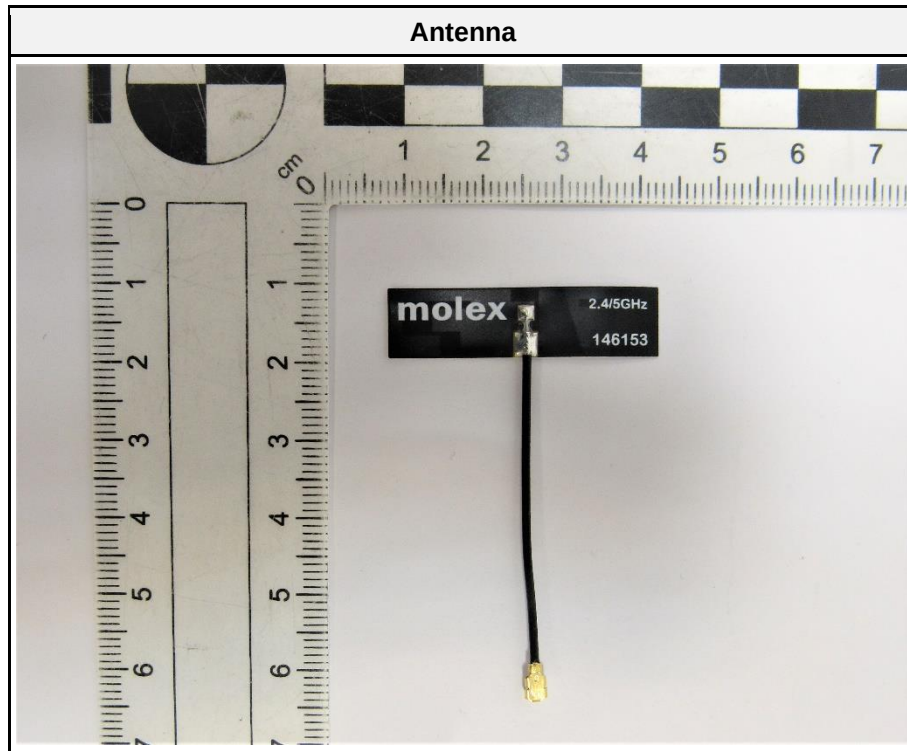


Evaluation board top

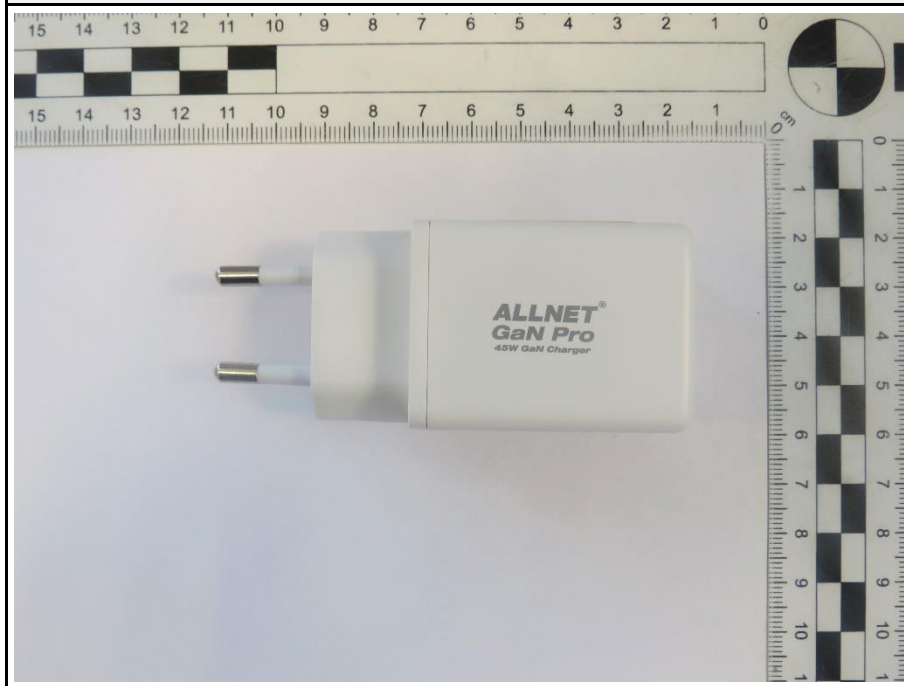


Evaluation board bottom

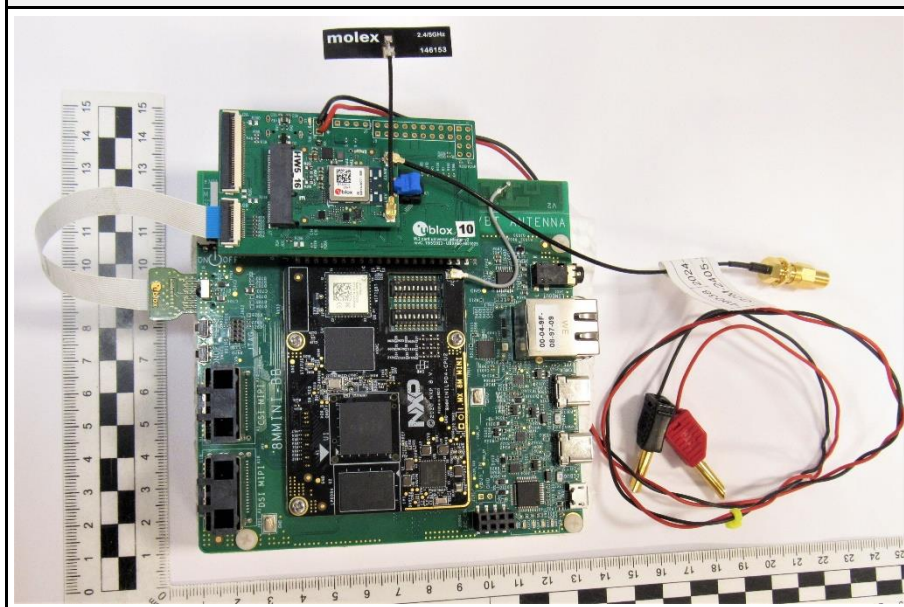




AC/DC adapter



EUT Set up



1.2 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	Lenovo	--	For configuring test mode
AE	Evaluation Kit for the i.MX 8M Mini Applications Processor	NXP	8MMINILPD4-EVK	Host computer board
AE	M2 card adapter	u-blox	v2 revC	--
AE	AC/DC adapter	Allnet	212154	For evaluation board
CBL	Data cable	Molex	15266-0171	From M2 card adapter to Evaluation Kit for the i.MX 8M Mini Applications Processor, length is 153 mm
CBL	USB-C	--	--	--
SFT	Terminal	--	--	Test mode activation
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment: --				

1.3 Test Modes

Mode	Description	
HE20 (IEEE 802.11ax)	Mode	Transmit
	Bandwidth	20 MHz
	Duty Cycle	99%
	*Power setting	19 dBm (5745 MHz, 5825 MHz, 5240 MHz) 15 dBm (5180 MHz) 16 dBm (5320 MHz) 12 dBm (5500 MHz) 13 dBm (5700 MHz)
	Data rate	MCS 0
Comment: The above settings are found as worst-case during evaluation of the original modular test report number G0M-2302-1881-TFC407WF-W271-V03, issued on 2024-01-11 by Eurofins Product Service GmbH and test report number USRC239070001, issued on 2023-11-27 by Eurofins E&E Taiwan Co., Ltd. *It has been identified that the power settings utilized in the modular test report requires modification to align with the updated requirements of the M2-MAYA-W271-00C. The power configurations in the initial report no longer reflect the necessary parameters for accurate compliance testing. The revised power settings in this table ensure that the test conditions are fully representative of the intended operational conditions to maintain compliance with regulatory standards.		

1.4 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx	36	5180
F2	Tx	48	5240
F3	Tx	64	5320
F4	Tx	100	5500
F5	Tx	140	5700
F6	Tx	149	5745
F7	Tx	165	5825

1.5 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dB μ V. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Field strength limit:

This is the FCC Class B radiated emission limit (in units of dB μ V/m). The FCC limits are given in units of μ V/m. The following formula is used to convert the units of μ V/m to dB μ V/m:

$$\text{Field strength limit (dB}\mu\text{V/m)} = 20 \cdot \log (\mu\text{V/m})$$

Example only for radiated field strength:

Reading + AF	= Net Reading	:	Net reading	- Field strength limit	= Margin
+21.5 dB μ V	+ 26 dB/m	:	47.5 dB μ V/m	- 57.0 dB μ V/m	= -9.5

2 Result Summary

FCC 47 CFR Part 15E				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
FCC 15.407(e)	6 dB bandwidth	KDB 789033 C.2 ANSI C63.10 12.4	N/T	Note 1
FCC 15.407(a)(2), (a)(5), (h)(2)	26 dB bandwidth	KDB 789033 C.1 ANSI C63.10 12.4	N/T	Note 1
FCC 15.407(a)	Maximum output power	KDB 789033 E ANSI C63.10 12.3	N/T	Note 1
FCC 15.407(h)	Transmit power control	KDB 789033 E ANSI C63.10 12.3	N/T	Note 1
FCC 15.407(a)	Power spectral density	KDB 789033 F ANSI C63.10 12.5	N/T	Note 1
FCC 15.407(g)	Frequency stability	ANSI C63.10 6.8	N/T	Note 1
FCC 15.207	AC power line conducted emissions	ANSI C63.10 6.2	N/T	Note 1
FCC 15.407(b)	Transmitter radiated emissions	KDB 789033 G ANSI C63.10 12.7	PASS	--
FCC 15.407(a)	Radiation pattern	KDB 789033 H	N/R	5250-5350 MHz band only with EIRP > 23 dBm
FCC 15.407(h)	DFS requirements	KDB 905462 D02	N/T	Note 1 & 2
Note 1: Permissive change of a certified module.				
Note 2: For DFS results refer to the original modular test report No.: G0M-2302-1881-TFC407DF-W271-V03, issued on 2024-01-11 by Eurofins Product Service GmbH; and report No.: USRC239070002 issued on 2024-11-27 by Eurofins E&E Wireless Taiwan Co., Ltd.				
Comment: The Decision Rule is applied on the basis of ETSI TR 102 273 and ETSI TR 100 028. These standards provide guidance on how to calculate and apply measurement uncertainty whilst providing maximum uncertainties allowance. In all cases due consideration will be given to ILAC-G8:09/2019. Where a result is considered conditional in respect of its proximity to the limit line, the customer would be made aware of situation so that they can make an informed decision on how to proceed.				

Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

3 Test Conditions and Results

3.1 Test Conditions and Results - Transmitter radiated emissions

3.1.1 Information

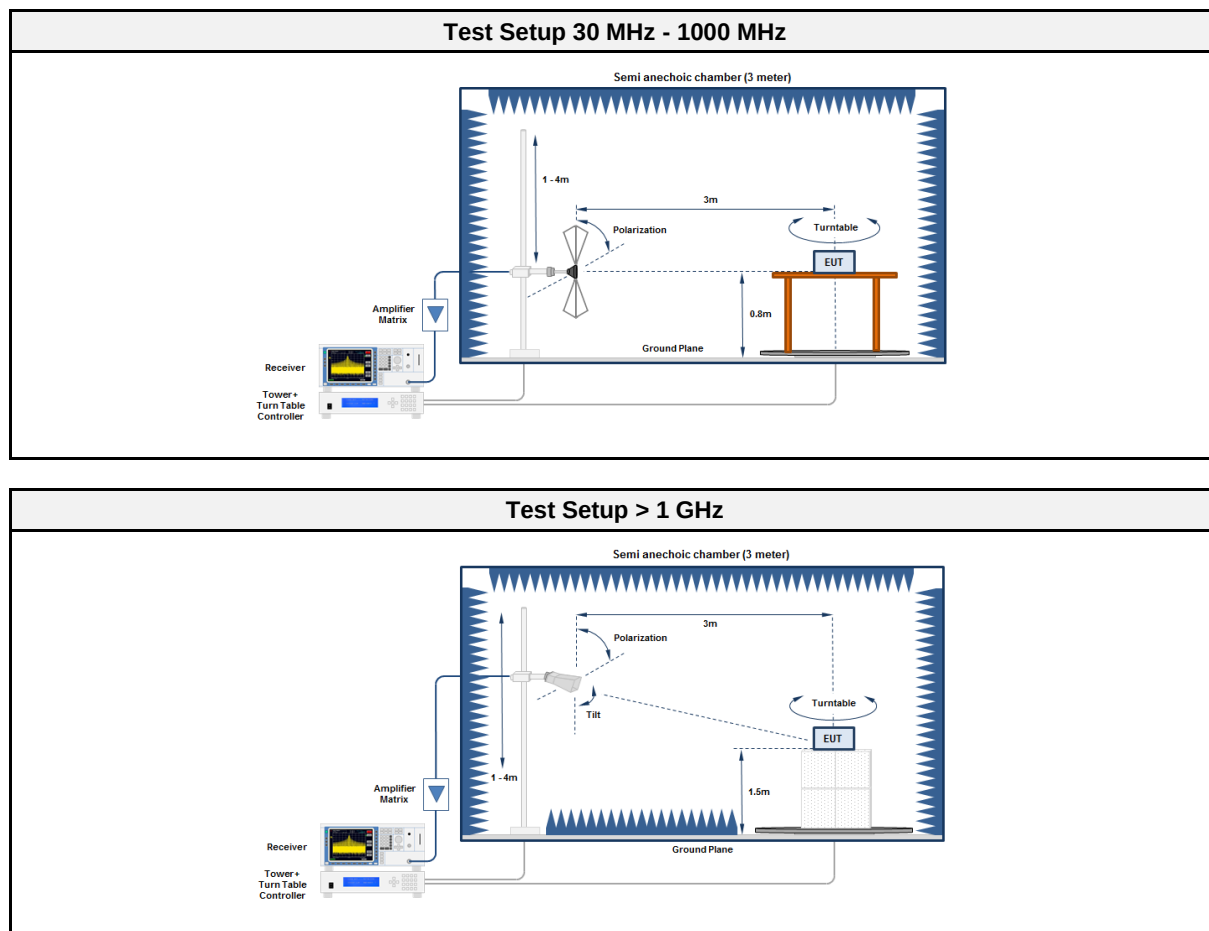
Test Information	
Reference	FCC 15.407(b);
Measurement Method	KDB 789033 G ANSI C63.10 6.3-6.6 6.3; ANSI C63.10 12.7
Operator	Md Abu Bakar Siddique
Date	2024-07-17 - 2024-07-18
Measurement Uncertainty	± 5.95 dB

3.1.2 Limits

Limits - Restricted frequency bands and below 1 GHz			
Frequency [MHz]	Detector	Field strength [μV/m]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

Limits - Outside restricted frequency bands above 1 GHz			
Frequency band [MHz]	Power limit [dBm EIRP]	Field strength limit [dBμV/m]	Measurement distance [m]
5150 - 5250	-27 dBm/MHz	68.2	3
5250 - 5350	-27 dBm/MHz	68.2	3
5470 - 5725	-27 dBm/MHz	68.2	3
5725 - 5850	-27 dBm/MHz @ ±75 MHz from band edge	68.2	3
5725 - 5850	10 to -27 dBm/MHz @ ±25 to ±75 MHz from band edge	105.2 to 68.2	3
5725 - 5850	15.6 to 10 dBm/MHz @ ±5 to ±25 MHz from band edge	110.8 to 105.2	3
5725 - 5850	27 to 15.6 dBm/MHz @ ±0 to ±5 MHz from band edge	122.2 to 110.8	3

3.1.3 Setup



3.1.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2023.2.6

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2024-07	2027-07
Test Receiver	Rohde & Schwarz	ESW44	EF01856	2024-04	2025-04
Antenna	Schwarzbeck	VULB 9168	EF01824	2022-10	2025-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC2	EF01616	2024-07	2025-07
Spectrum analyzer	Rohde & Schwarz	FSW43	EF00896	2024-07	2025-07
Horn antenna	Schwarzbeck	BBHA 9120B (1-10GHz)	EF01678	2024-05	2027-05
Double Ridged Waveguide Horn Antenna	Schwarzbeck	HWRD 650 (6,5-18GHz)	EF01679	2024-05	2027-05
Antenna	Amplifier Research	AT4560	EF00302	2023-09	2025-09

3.1.5 Procedure

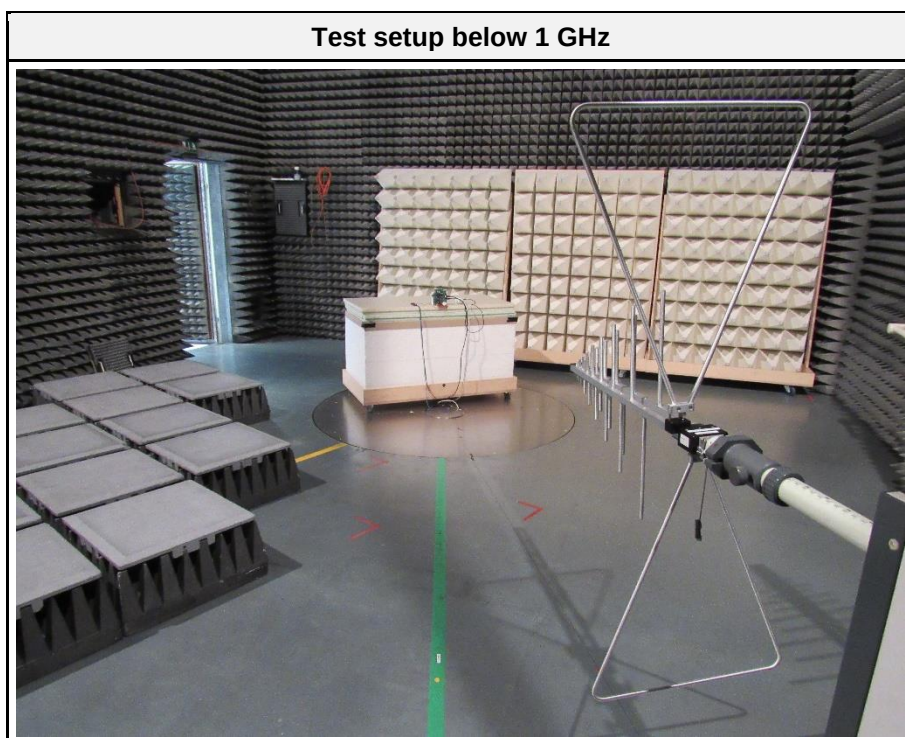
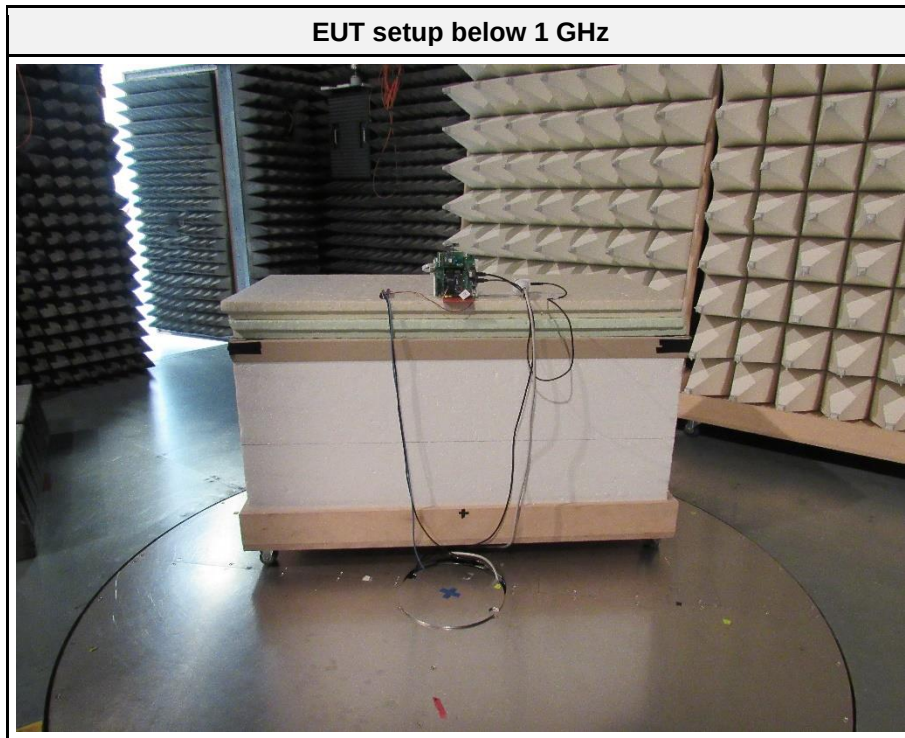
Test Procedure 30 MHz - 1000 MHz	
1.	EUT is placed on a non-conducting support at the center of a turn table 0.8 m above the ground
2.	EUT set to test mode
3.	The receiver is set to peak detection with max hold
4.	The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5.	All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz	
1.	EUT is placed on a non-conducting support at the center of a turn table 1.5 m above the ground
2.	EUT set to test mode
3.	The receiver is set to peak detection with max hold
4.	The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5.	All significant emissions are measured again using the corresponding final detector

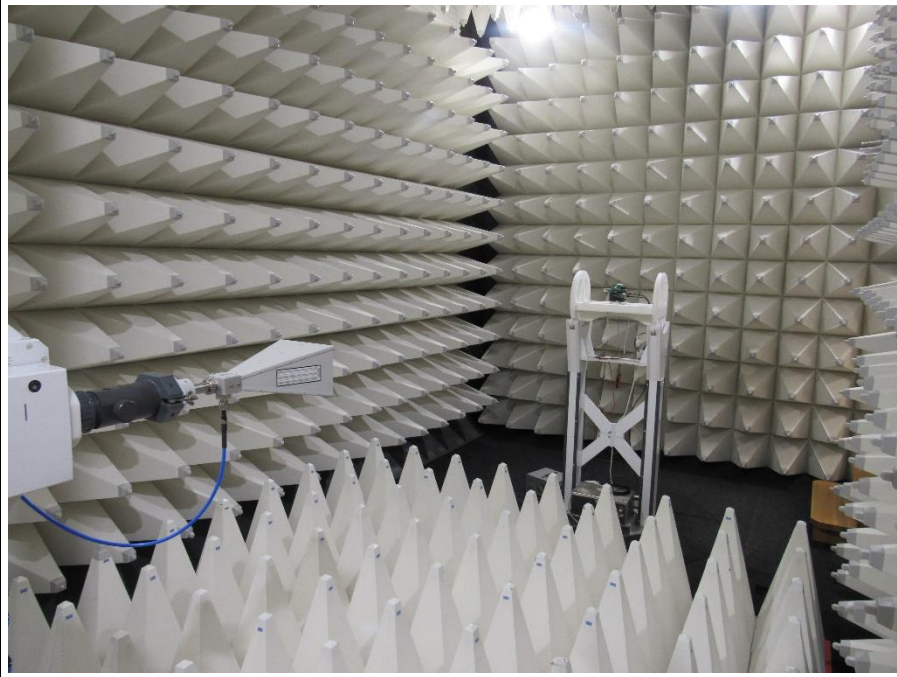
3.1.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
5240	132.3538	30.3	qpk	ver	43.5	-13.22
5240	243.3678	26.1	qpk	hor	46	-19.9
5240	338.7974	37.7	qpk	hor	68.2	-30.49
5240	401.8112	37.8	qpk	ver	46	-8.2
5240	1513.9	45.55	pk	hor	74	-28.45
5240	5094.647	44.42	pk	hor	74	-29.58
5240	15717.396	60.45	pk	hor	74	-13.55
5240	15717.396	49.67	RMS	hor	54	-4.33
5240	18059.5	48.96	pk	ver	74	-25.04
5180	5149.193	63.59	pk	hor	74	-10.41
5180	5149.193	49.04	RMS	hor	54	-4.96
5320	5350.947	62.71	pk	hor	74	-11.29
5320	5350.947	52.28	RMS	hor	54	-1.72
5500	5467.893	63.26	pk	hor	68.2	-4.94
5500	5467.893	47.53	RMS	hor	68.2	-20.67
5700	5725.383	63.8	pk	hor	68.2	-4.4
5700	5725.383	48.77	RMS	hor	68.2	-19.43
5745	5724.523	86.71	pk	hor	120.93	-34.22
5745	5724.523	72.58	RMS	hor	122	-49.42
5825	5850.2	78.3	pk	hor	121.55	-43.25
5825	5850.2	63.12	RMS	hor	122	-58.88

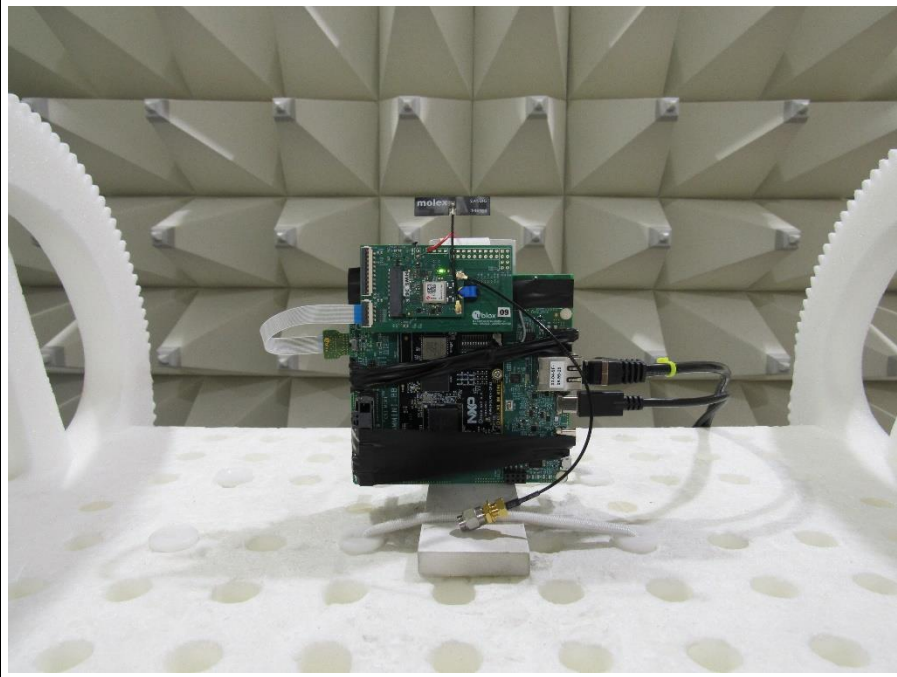
3.1.7 Setup Photos



Test setup above 1 GHz



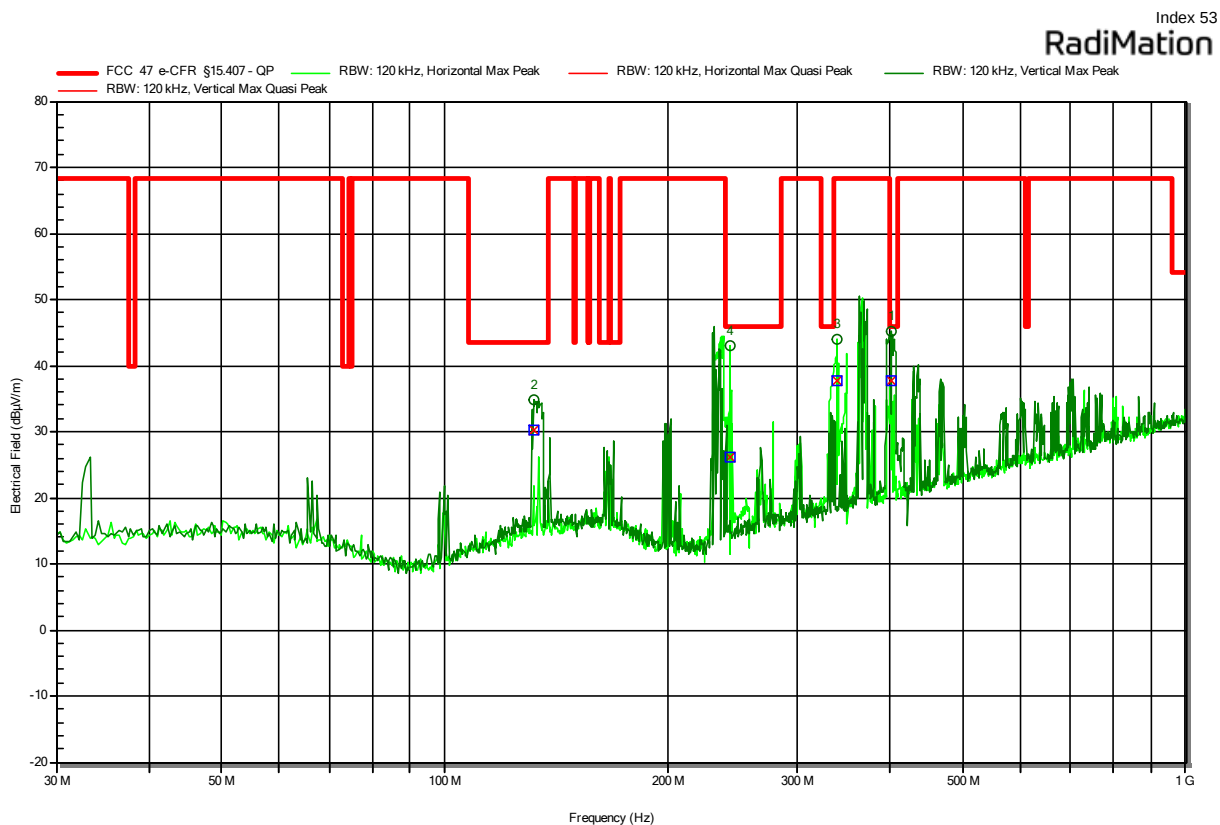
EUT setup above 1 GHz



ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.407

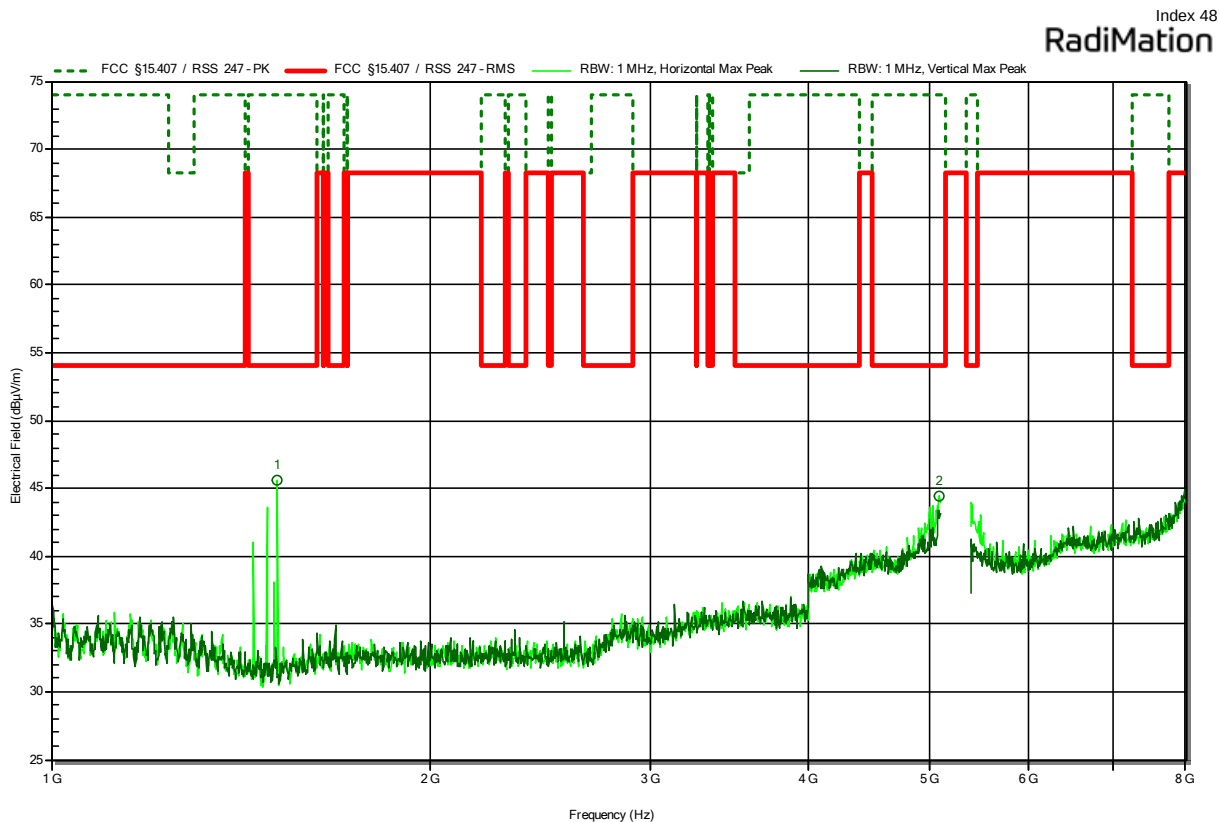
Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2023.2.6
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; 802.11ax_HE20_5240 MHz_Tx
 Test Date: 2024-09-18



Peak Number	Frequency (MHz)	Quasi-Peak (dBµV/m)	Quasi-Peak Limit (dBµV/m)	Quasi-Peak Difference (dB)	Quasi-Peak Status	Polarization
1	401.8112	37.8	46	-8.2	Pass	Vertical
2	132.3538	30.3	43.5	-13.22	Pass	Vertical
3	338.7974	37.7	68.2	-30.49	Pass	Horizontal
4	243.3678	26.1	46	-19.9	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

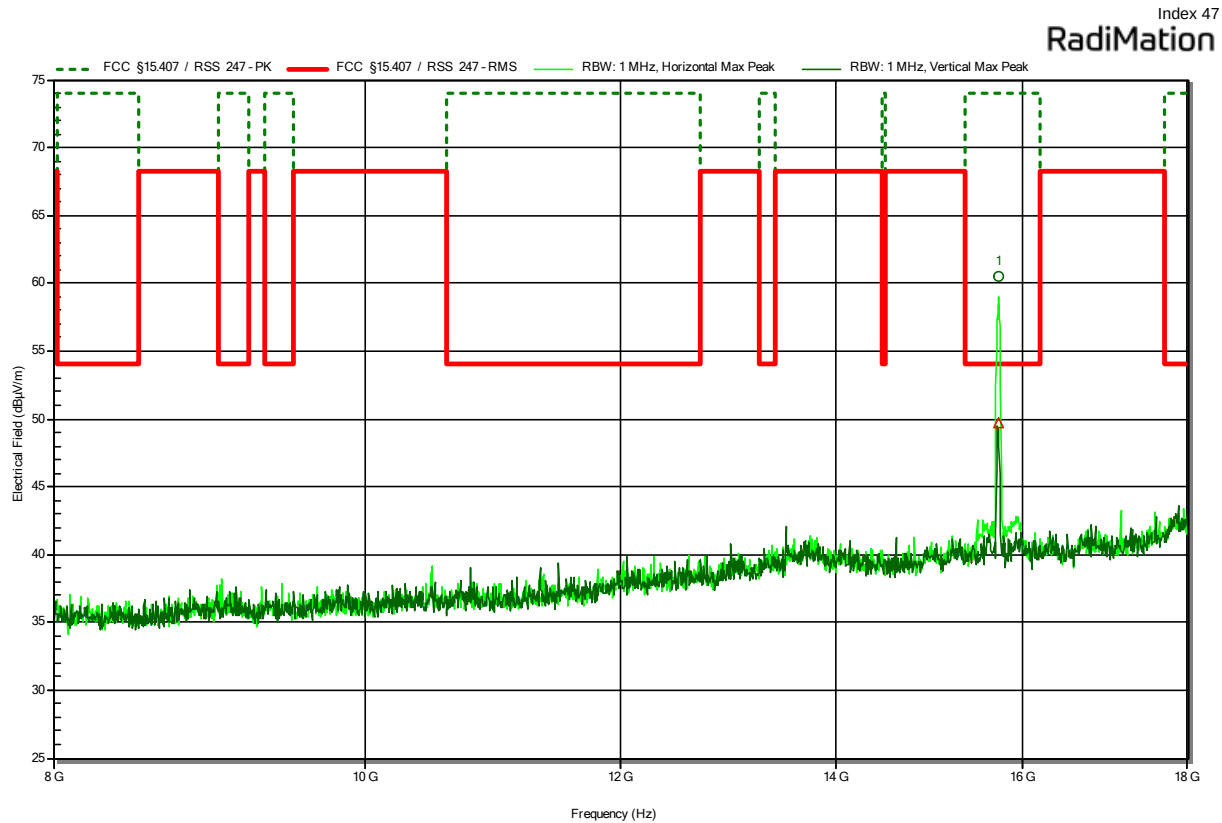
Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.11ax_HE20_5240 MHz_Tx
 Test Date: 2024-09-17



Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak (dBµV/m)	Limit	Peak Difference (dB)	Peak Status	Polarization
1	1513.9	45.55	74		-28.45	Pass	Horizontal
2	5094.647	44.42	74		-29.58	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 802.11ax_HE20_5240 MHz_Tx
 Test Date: 2024-09-17

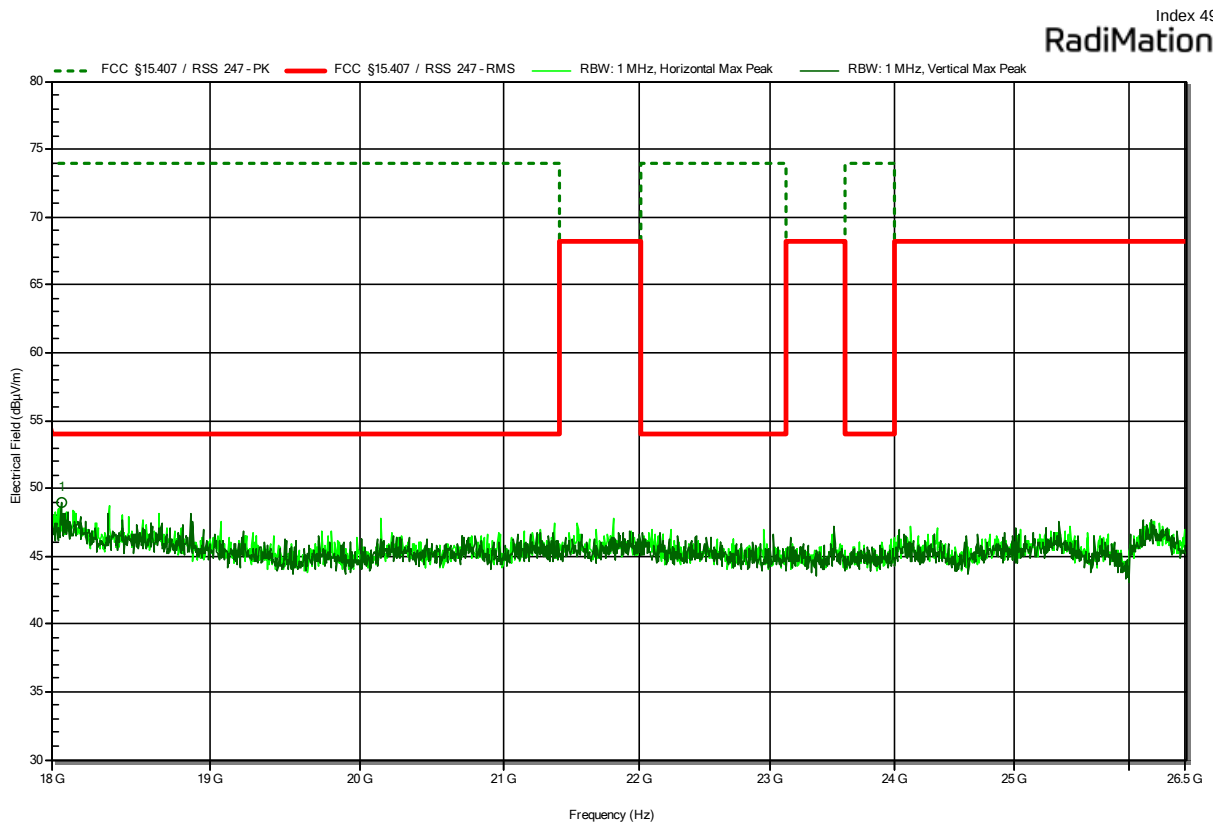


Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak (dBµV/m)	Limit	Peak Difference (dB)	Peak Status	Polarization
1	15717.396	60.45	74		-13.55	Pass	Horizontal

Peak Number	Frequency (MHz)	RMS (dBµV/m)	RMS (dBµV/m)	Limit	RMS Difference (dB)	RMS Status	Polarization
1	15717.396	49.67	54		-4.33	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

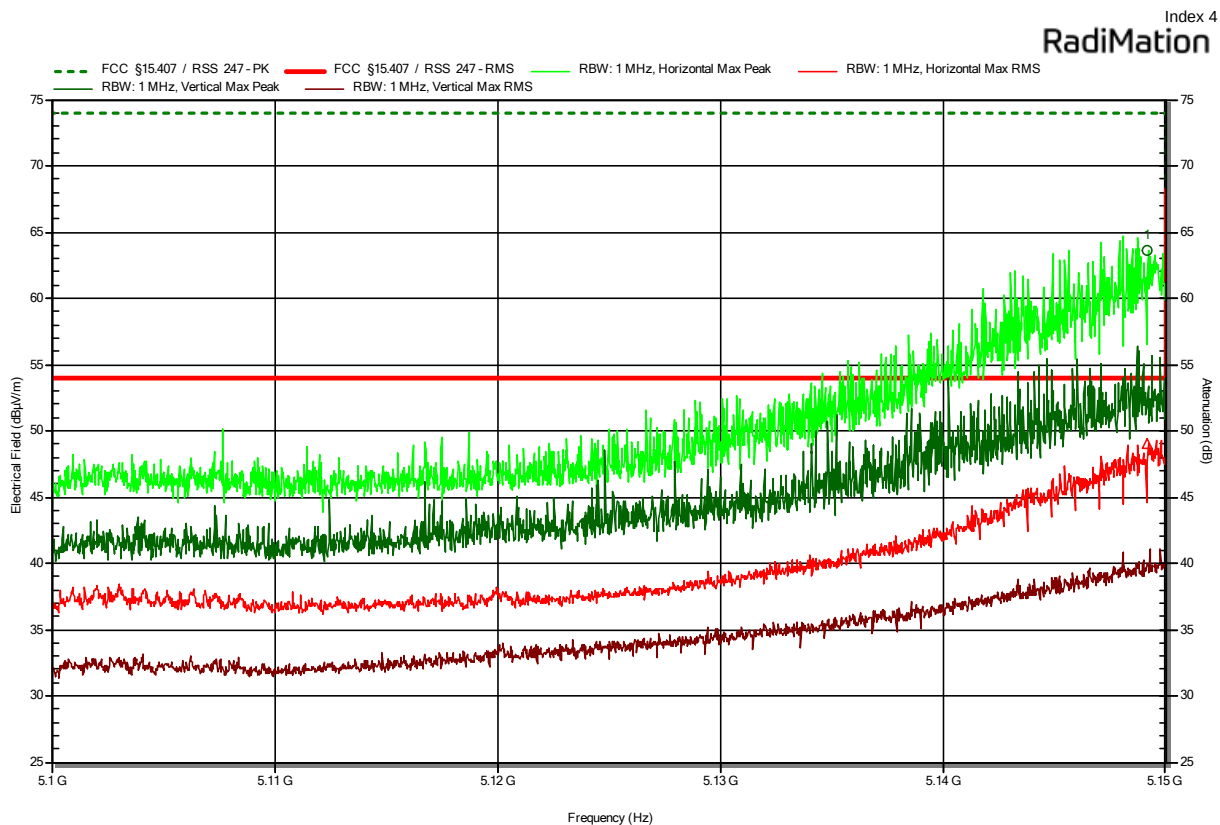
Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; 802.11ax_HE20_5240 MHz_Tx
 Test Date: 2024-09-17



Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak (dBµV/m)	Limit	Peak Difference (dB)	Peak Status	Polarization
1	18059.5	48.96	74		-25.04	Pass	Vertical

Radiated Spurious Emissions according to FCC 15.407

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 5 GHz
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49604
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.11ax, HE20, MCS0, 5180 MHz, CH 36, P=15 dBm
 Test Date: 2024-10-30
 Note: Pass_lower band area



Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak (dBμV/m)	Limit	Peak Difference (dB)	Peak Status	Polarization
1	5149.193	63.59	74		-10.41	Pass	Horizontal

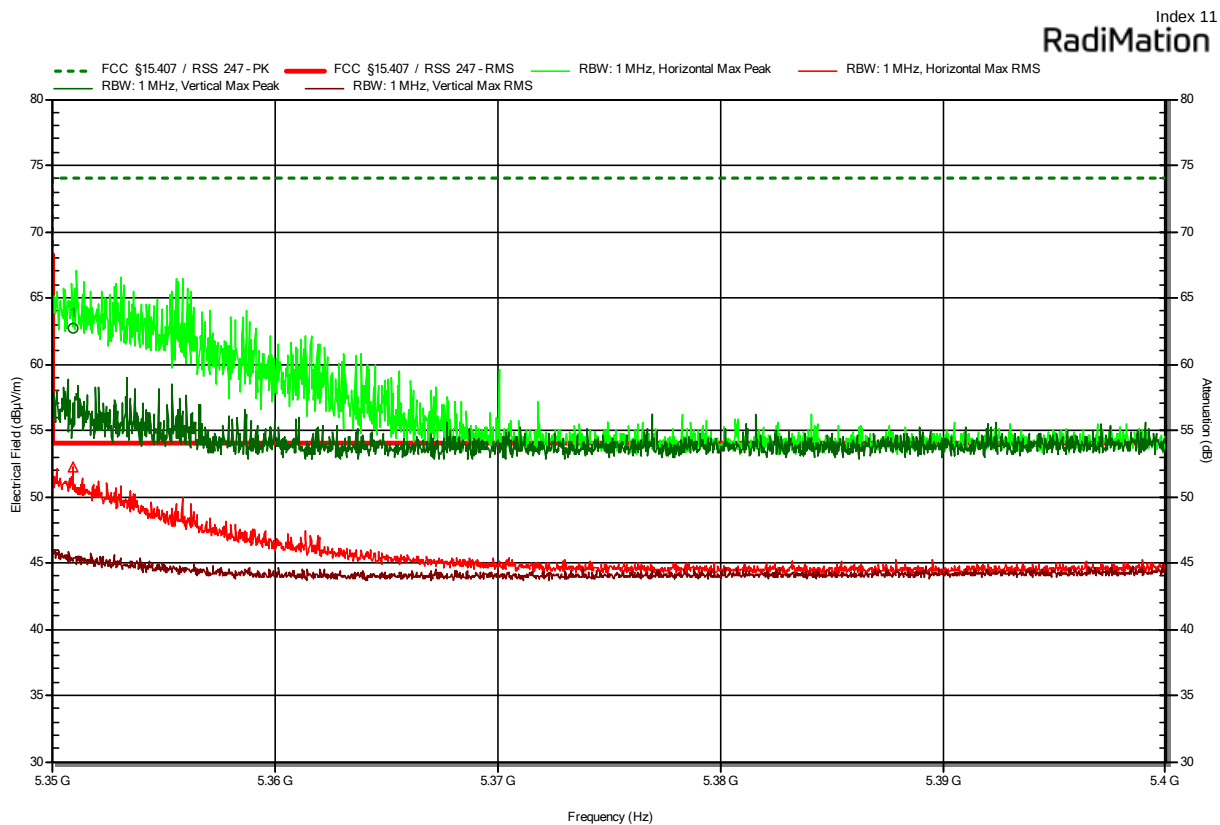
Peak Number	Frequency (MHz)	RMS (dBμV/m)	RMS (dBμV/m)	Limit	RMS Difference (dB)	RMS Status	Polarization
1	5149.193	49.04	54		-4.96	Pass	Horizontal

Test Report No.: G0M-2405-2583-TFC407WF01-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to FCC 15.407

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 5 GHz
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49604
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.11ax, HE20, MCS0, 5320 MHz, CH 64, P=16 dBm
 Test Date: 2024-10-30
 Note: Pass_upper band area



Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak (dBμV/m)	Limit	Peak Difference (dB)	Peak Status	Polarization
1	5350.947	62.71	74		-11.29	Pass	Horizontal

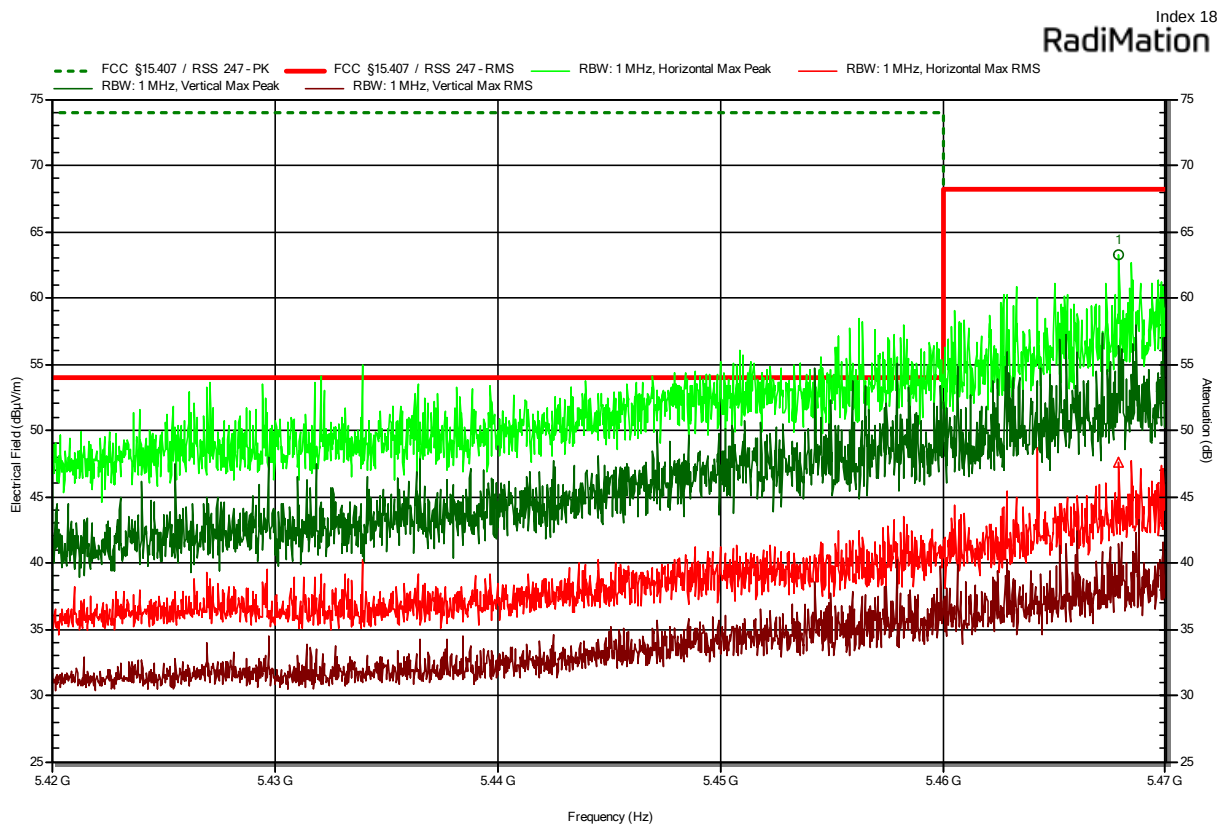
Peak Number	Frequency (MHz)	RMS (dBμV/m)	RMS (dBμV/m)	Limit	RMS Difference (dB)	RMS Status	Polarization
1	5350.947	52.28	54		-1.72	Pass	Horizontal

Test Report No.: G0M-2405-2583-TFC407WF01-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to FCC 15.407

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 5 GHz
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49604
 Test Site: Eurofins Product Service GmbH
 Operator: Ehsan Sohrabi
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.11ax, HE20, MCS0, 5500 MHz, CH 100, P=12 dBm
 Test Date: 2024-11-01
 Note: lower band area



Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak (dBμV/m)	Limit	Peak Difference (dB)	Peak Status	Polarization
1	5467.893	63.26	68.2		-4.94	Pass	Horizontal

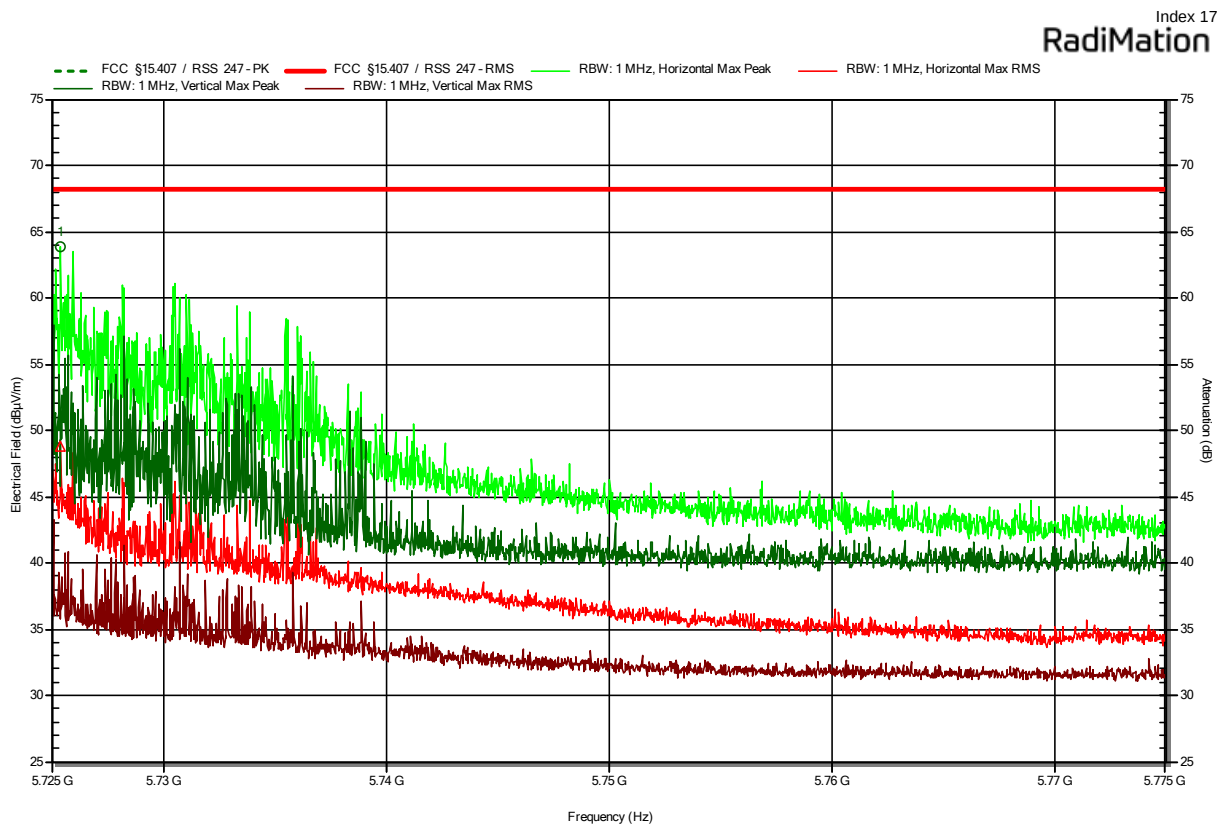
Peak Number	Frequency (MHz)	RMS (dBμV/m)	RMS (dBμV/m)	Limit	RMS Difference (dB)	RMS Status	Polarization
1	5467.893	47.53	68.2		-20.67	Pass	Horizontal

Test Report No.: G0M-2405-2583-TFC407WF01-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to FCC 15.407

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 5 GHz
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49604
 Test Site: Eurofins Product Service GmbH
 Operator: Ehsan Sohrabi
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.11ax, HE20, MCS0, 5700 MHz, CH 140, P=13 dBm
 Test Date: 2024-11-01
 Note: upper band area



Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak (dBµV/m)	Limit (dB)	Peak Difference (dB)	Peak Status	Polarization
1	5725.383	63.8	68.2	-4.4		Pass	Horizontal

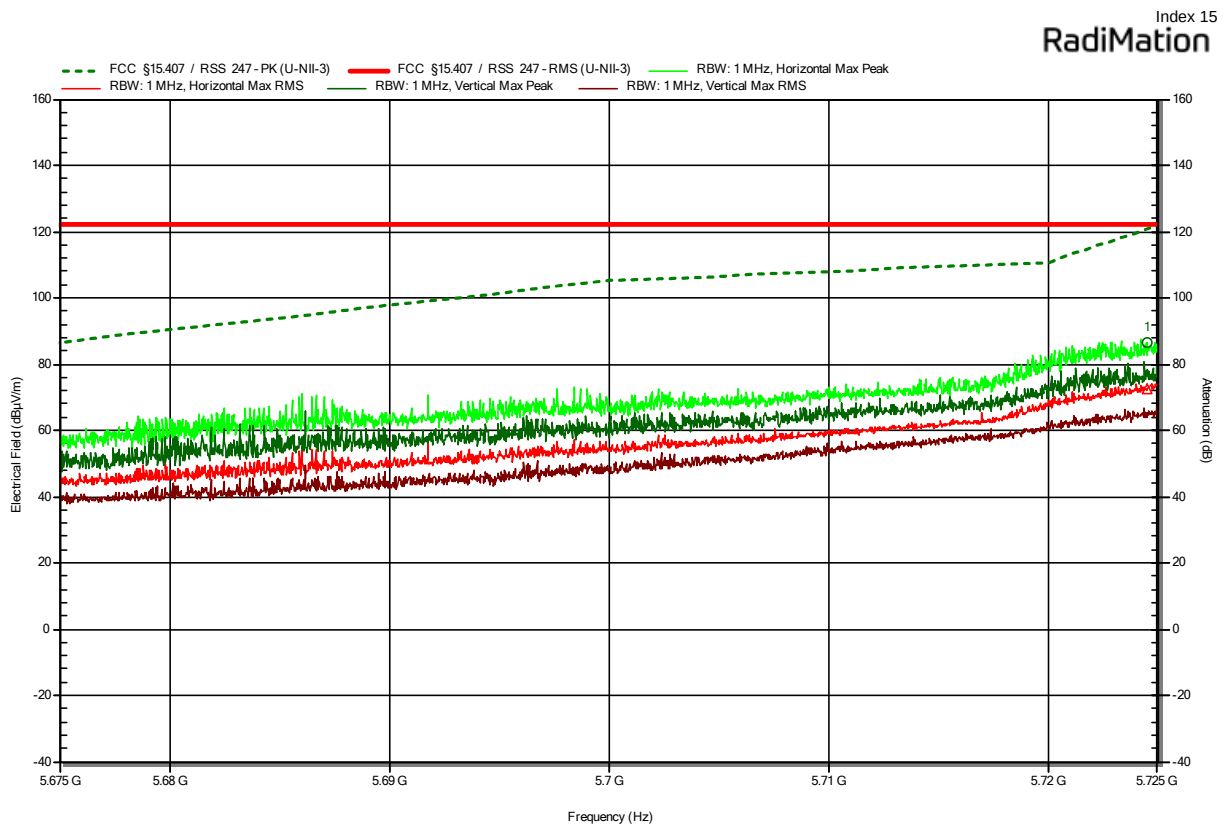
Peak Number	Frequency (MHz)	RMS (dBµV/m)	RMS (dBµV/m)	Limit (dB)	RMS Difference (dB)	RMS Status	Polarization
1	5725.383	48.77	68.2	-19.43		Pass	Horizontal

Test Report No.: G0M-2405-2583-TFC407WF01-V01

Eurofins Product Service GmbH
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Radiated Spurious Emissions according to FCC 15.407

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 5 GHz
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49604
 Test Site: Eurofins Product Service GmbH
 Operator: Ehsan Sohrabi
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.11ax, HE20, MCS0, 5745 MHz, CH 149, P=19 dBm
 Test Date: 2024-11-01
 Note: lower band area



Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak (dBμV/m)	Limit	Peak Difference (dB)	Peak Status	Polarization
1	5724.523	86.71	120.93		-34.22	Pass	Horizontal

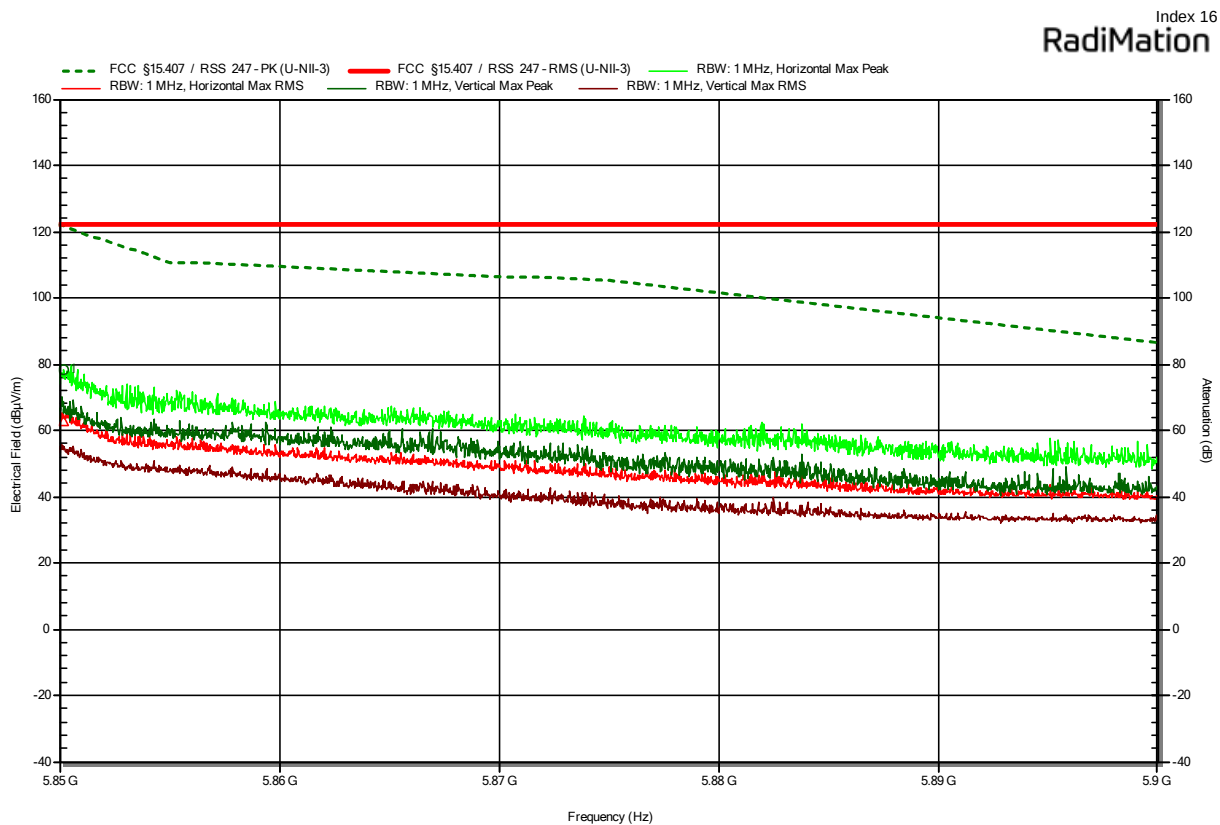
Peak Number	Frequency (MHz)	RMS (dBμV/m)	RMS (dBμV/m)	Limit	RMS Difference (dB)	RMS Status	Polarization
1	5724.523	72.58	122		-49.42	Pass	Horizontal

Test Report No.: G0M-2405-2583-TFC407WF01-V01

Eurofins Product Service GmbH
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Radiated Spurious Emissions according to FCC 15.407

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 5 GHz
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49604
 Test Site: Eurofins Product Service GmbH
 Operator: Ehsan Sohrabi
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.11ax, HE20, MCS0, 5825 MHz, CH 165, P=19 dBm
 Test Date: 2024-11-01
 Note: upper band area



Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak (dBμV/m)	Limit	Peak Difference (dB)	Peak Status	Polarization
1	5850.2	78.3	121.55		-43.25	Pass	Horizontal

Peak Number	Frequency (MHz)	RMS (dBμV/m)	RMS (dBμV/m)	Limit	RMS Difference (dB)	RMS Status	Polarization
1	5850.2	63.12	122		-58.88	Pass	Horizontal

== = END OF TEST REPORT == =

Test Report No.: G0M-2405-2583-TFC407WF01-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany