

RF Test Report

Applicant : u-blox AG

Product Name : Host-based multiradio module

Trade Name : u-blox

Model Number : MAYA-W276-00B

Applicable Standard : FCC 47 CFR PART 15 SUBPART C

ANSI C63.10:2013

Received Date : Nov. 09, 2023

Test Period : Nov. 27 ~ Dec. 01, 2023

Issued Date : Dec. 22, 2023

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd. No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.)

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Taiwan Accreditation Foundation accreditation number: 1330

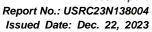
Frequency Range: 9 kHz to 325 GHz

Test Firm Registration Number: 226252 (Bade test site) Test Firm Registration Number: 191812 (Wugu test site)

Note:

- 1. The test results are valid only for samples provided by customers and under the test conditions described in this report.
- 2. This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
- 3. The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.







Revision History

Rev.	Issued Date	Description	Revised by
00	Dec. 22, 2023	Initial Issue	Abby Huang



Verification of Compliance

Applicant	:	u-blox AG
Product Name	:	Host-based multiradio module
Trade Name	:	u-blox
Model Number	:	MAYA-W276-00B
FCC ID	:	XPYMAYAW2B
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART C ANSI C63.10:2013
Test Result	:	Complied
Performing Lab.	:	Eurofins E&E Wireless Taiwan Co., Ltd. No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.) Tel: +886-3-2710188 / Fax: +886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330
he above standards. All indi Faiwan Co., Ltd. based on inte	catio erpre	., Ltd. tested the above equipment in accordance with the requirements set forth in ns of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless tations and/or observations of test results. The test results show that the equipment g compliance with the requirements as documented in this report.
Approved By	:	



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Appendix A. Test Setup Photographs



1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.207	AC Power Conducted Emission	PASS	
15.203	Antenna Requirement	N/A	Note 1
15.247(b)(1)	Max. Output Power	N/A	Note 1
15.247(d)	Transmitter Radiated Emissions	PASS	Note 2
15.247(a)(1)	20 dB RF Bandwidth	N/A	Note 1
15.247(a)(1)	Carrier Frequency Separation	N/A	Note 1
15.247(a)(1)(iii)	17(a)(1)(iii) Number of Hopping		Note 1
15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	N/A	Note 1
15.247(d)	Out of Band Conducted Spurious Emission	N/A	Note 1

Note 1: Class II permissive change. No need for verification.

Note 2: Only verify the Transmitter Radiated Emissions (Band Edge)

Decision Rule

- Uncertainty is not included.
- $\hfill \square$ Uncertainty is included.

Standard	Description		
CFR47, Part 15, Subpart C	Intentional Radiators		
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices		
DA 00-705	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems		





1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address: No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.)

Site Address: No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

Took How	F	Uncertainty			
Test Item	Frequency	BD		WG	
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB		2.6 dB	
Conducted C	Output Power	1.1 dB		1.1 dB	
RF Bar	ndwidth	4.5	5 %	4.5 %	
Power Spec	Power Spectral Density			1.1 dB	
Test Item	Fraguanay	Uncertainty			
restitem	Frequency	96601-BD	96603-BD	96602-WG	96603-WG
	9 kHz ~ 30 MHz	1.9 dB	1.9 dB	1.6 dB	1.6 dB
	30 MHz ~ 1000 MHz	4.9 dB	4.9 dB	4.8 dB	4.8 dB
Radiated Emission	1000 MHz ~ 18000 MHz	4.9 dB	5.0 dB	5.0 dB	5.2 dB
	18000 MHz ~ 26500 MHz	4.3 dB	4.4 dB	4.4 dB	4.5 dB
	26500 MHz ~ 40000 MHz	4.5 dB	4.5 dB	4.6 dB	4.5 dB

1.4. Test Site Environment

Items	Required (IEC 60068-1)	Interval(*)	
Temperature (°C)	15-35	20-30	
Humidity (%RH)	25-75	45-75	

^(*)The measurement ambient temperature is within this range.



2 **EUT Description**

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity(except Max. RF Output Power).

Applicant	u-blox AG Zürcherstrasse 68, 8800 Thalwil, Switzerland							
Product Name	Host-based multiradio mo	Host-based multiradio module						
Trade Name	u-blox							
Model Number	MAYA-W276-00B							
FCC ID	XPYMAYAW2B							
Frequency Range	2402 ~ 2480 MHz							
Modulation Type	GFSK for 1 Mbps							
	π/4-DQPSK for 2 Mbps							
	8DPSK for 3 Mbps							
Operate Temp. Range	-40 ~ +85 °C							
EUT Power Rating	3.3 V							
	Model			Туре	Max. Gain (dBi)			
Antenna Information	ANT-DB1-RAF-SAM			Dipole Antenna	4.1			
	custom		Integrated Antenna	-4.1				
Max. RF Output Power	GFSK for 1 Mbps	0.0376	W					
	π/4-DQPSK for 2 Mbps	0.0080	W					
	8DPSK for 3 Mbps	0.0085	W					

EUT Modify Description:

Impacts of changes:

- 1. C44 and C47 shifted down by hundreds of micrometers. Buffer capacitors only. No impact expected on RF Performance / Characteristics.
- 2.New Module Shield added. Larger cutout on bottom side. No impact expected on RF Performance / Characteristics. No/Low impact on radiated measurements expected.
- 3.BGA pads on HW Rev C are solder mask defined with exposed copper pads area diameter area of 170um compared to the BGAs pads on HW Rev B which are not solder mask defined with exposed landing pads area diameter of 180um → No impact expected on RF Performance / Characteristics

After the verification of worst cast of AC Power Conducted Emission and Transmitter Radiated Emissions (Band Edge), all test data can be referred to the original report.

Original Report: G0M-2302-1881-TFC247BT-W276-V01





3 Test Methodology

3.1. Mode of Operation

Decision of Test Eurofins has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	Final-Test Mode
Transmit Mode	
BT_8DPSK	V

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

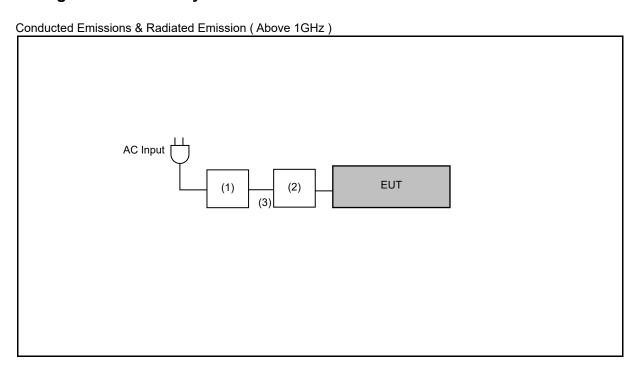
3.2. EUT Test Step

1	Setup the EUT shown on "Configuration of Test System Details."			
2	Turn on the power of all equipment.			
3	Turn on TX function			
4	EUT run test program.			





3.3. Configuration of Test System Details



Product		Manufacturer	Manufacturer Model Number		Power Cord
(1)	I) Notebook DELL		P137G		
(2)	Evaluation Kit for the i.MX 8M Mini Applications Processor	NXP	8MMINILPD4-EVKB		
(3)	USB 5Gbps (USB 3.0, USB 3.x Gen 1. Superspeed) cable USB-A plug to USB-C plug 3,28' (1,00m) shielded.	CUI Devices	CBL-UA-UC-1		



3.4. Test Instruments

For Radiated Emissions

Test Period: Nov. 27 ~ Nov. 30, 2023

Testing Engineer:Marin Lee

Radiation test sites		Semi Anechoic Room 96602-WG				
Use	Equipment	Manufacturer Model Number		Serial Number	Cal. Date	Cal. Period
\boxtimes	Broadband Horn Antenna (1 GHz~18 GHz)	RF SPIN	DRH18-E	210305A18ES	Feb. 21, 2023	1 year
\boxtimes	Spectrum Analyzer (10 Hz~44 GHz)	KEYSIGHT	N9020B	MY60112362	Feb. 16, 2023	1 year
\boxtimes	Pre-Amplifier	SGH	SGH118-EMC	20230715-3	Sep. 07, 2023	1 year
\boxtimes	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM-1000	211026	Nov. 13, 2023	1 year
\boxtimes	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM-2000	211035	Nov. 13, 2023	1 year
	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM-8000	211036	Nov. 13, 2023	1 year
\boxtimes	Software	R_RAM	V1.3	N/A	N.C.R.	

For Conduction Emissions Test Period: Dec. 01, 2023 Testing Engineer: Marin Lee

Rad	diation test sites	Conducted Emission Measurement Conduction01-WG						
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period		
\boxtimes	Test Receiver	R&S	ESR3	102919	Nov 30, 2023	1 year		
\boxtimes	LISN	R&S	ENV216	101041	Apr 12, 2023	1 year		
\boxtimes	Current Probe	R&S	EZ-17	101687	Jun 15, 2023	1 year		
\boxtimes	Cable	EMCI	EMCCFD300-BM-NM-4000	220402	Jun 08, 2023	1 year		
\boxtimes	Software	ELEKTRA	94.50.4	N.A.	N.C.R.	N.C.R.		

Note: N.C.R. = No Calibration Request.





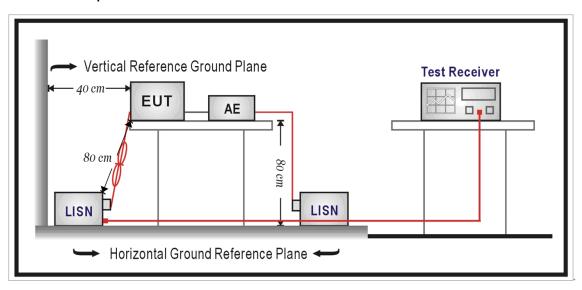
4 Measurement Procedure

4.1. AC Power Line Conducted Emission Measurement

■ Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

■ Test Setup







■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 Ω // 50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 Ω // 50 uH coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.



4.2. Radiated Emission Measurement

■ Limit

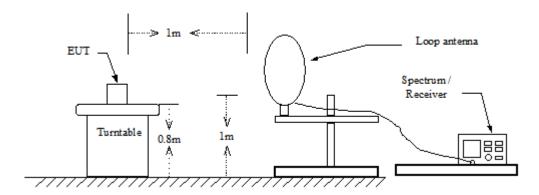
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance
(MHz)	(μV/m at meter)	(meters)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

■ Setup

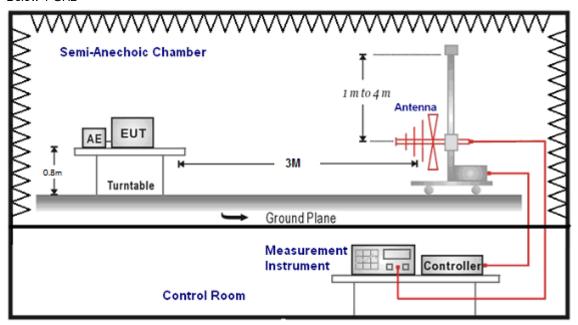
9 kHz ~ 30 MHz



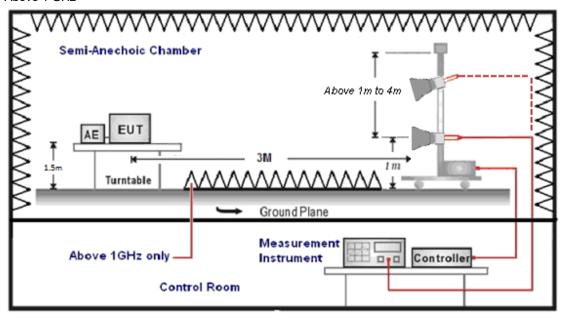




Below 1 GHz



Above 1 GHz







■ Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 26.5 GHz is investigated.

For measurements below 30 MHz the resolution bandwidth is set to 10 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements. The video bandwidth is 3 times of the resolution bandwidth.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle >98 % / 1/T for average measurements when Duty cycle <98 %. A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro colts per meter (dBuV/m).





The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

- (1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)
 - FI= Reading of the field intensity.
 - AF= Antenna factor.
 - CL= Cable loss.
 - P.S Amplitude is auto calculate in spectrum analyzer.
- (2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)
 - The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:
 - (a) For fundamental frequency: Transmitter Output < +30 dBm
 - (b) For spurious frequency: Spurious emission limits = fundamental emission limit /10

Data of measurement within this frequency range without mark in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.



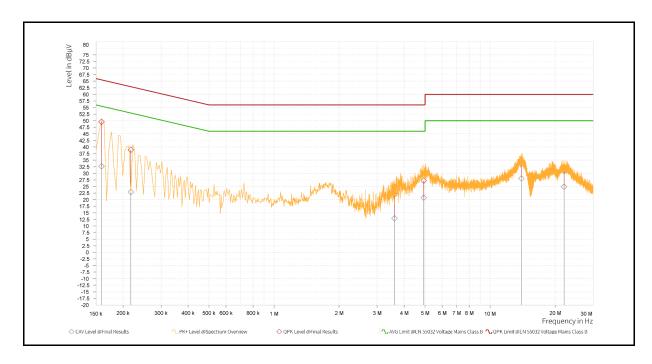
5 Test Results

5.1. Conducted Emission

Antenna model number: ANT-DB1-RAF-SAM

Standard: FCC Part 15.247 Line: L1
Test item: Conducted Emission Power: AC 120 V/60 Hz
Mode: Transmit Mode

Description:



Rg	Frequency [MHz]	QP Result [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	AV Result [dΒμV]	AV Limit [dΒμV]	AV Margin [dB]	orrection factor	Line
1	0.159	49.57	65.52	15.95	32.71	55.52	22.81	9.64	L1
1	0.218	38.97	62.91	23.95	22.94	52.91	29.97	9.64	L1
1	3.611	22.06	56.00	33.94	12.93	46.00	33.07	9.77	L1
1	4.929	27.25	56.00	28.75	20.80	46.00	25.20	9.81	L1
1	13.956	33.71	60.00	26.29	28.09	50.00	21.91	10.00	L1
1	21.989	30.99	60.00	29.01	24.94	50.00	25.06	10.11	L1

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).





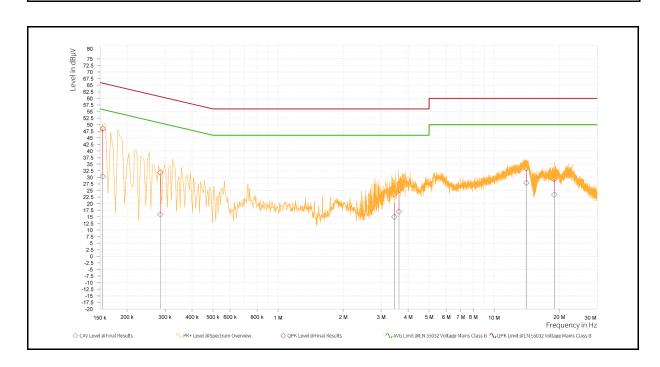


Standard: FCC Part 15.247 Line: N

Test item: Conducted Emission Power: AC 120 V/60 Hz

Mode: Transmit Mode

Description:



Rg	Frequency [MHz]	QP Result [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	AV Result [dΒμV]	AV Limit [dΒμV]	AV Margin [dB]	orrection factor	Line
1	0.155	48.53	65.75	17.23	30.36	55.75	25.39	9.64	N
1	0.285	31.78	60.67	28.89	15.90	50.67	34.77	9.64	N
1	3.453	23.69	56.00	32.31	15.00	46.00	31.00	9.77	N
1	3.629	25.23	56.00	30.77	17.01	46.00	28.99	9.78	N
1	14.109	33.44	60.00	26.56	27.91	50.00	22.09	10.08	N
1	18.992	29.33	60.00	30.67	23.44	50.00	26.56	10.19	N

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).



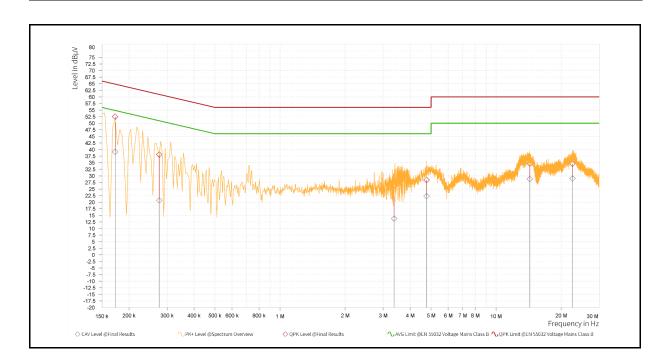
Antenna model number: custom

Standard: FCC Part 15.247 Line: L1

Test item: Conducted Emission Power: AC 120 V/60 Hz

Mode: Transmit Mode

Description:



Rg	Frequency [MHz]	QP Result [dΒμV]	QP Limit [dBµV]	QP Margin [dB]	AV Result [dΒμV]	AV Limit [dΒμV]	AV Margin [dB]	orrection facto [dB]	Line
1	0.173	52.46	64.84	12.38	39.13	54.84	15.71	9.64	L1
1	0.276	38.09	60.94	22.84	20.69	50.94	30.25	9.64	L1
1	3.372	26.55	56.00	29.45	13.76	46.00	32.24	9.76	L1
1	4.767	28.41	56.00	27.59	22.29	46.00	23.71	9.80	L1
1	14.325	34.73	60.00	25.27	28.82	50.00	21.18	10.01	L1
1	22.565	34.60	60.00	25.40	29.03	50.00	20.97	10.12	L1

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).





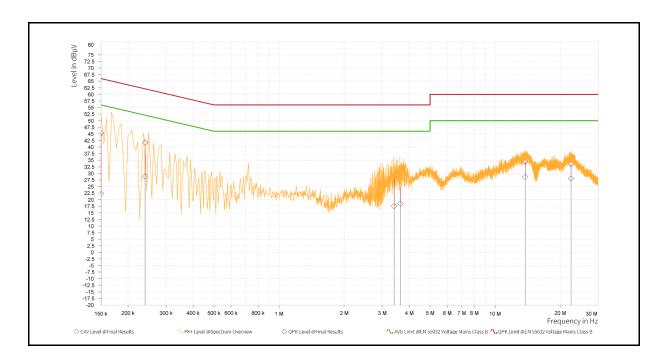


Standard: FCC Part 15.247 Line: N

Test item: Conducted Emission Power: AC 120 V/60 Hz

Mode: Transmit Mode

Description:



Rg	Frequency [MHz]	QP Result [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	AV Result [dΒμV]	AV Limit [dΒμV]	AV Margin [dB]	orrection factor	Line
1	0.150	45.31	66.00	20.69	22.35	56.00	33.65	9.64	N
1	0.240	41.64	62.10	20.46	28.86	52.10	23.24	9.64	N
1	3.408	28.62	56.00	27.38	17.57	46.00	28.43	9.77	N
1	3.651	28.79	56.00	27.21	18.51	46.00	27.49	9.78	N
1	13.776	34.48	60.00	25.52	28.68	50.00	21.32	10.07	N
1	22.461	33.62	60.00	26.38	28.03	50.00	21.97	10.25	N

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).





5.2. Radiated Emission Measurement

Antenna model number: ANT-DB1-RAF-SAM

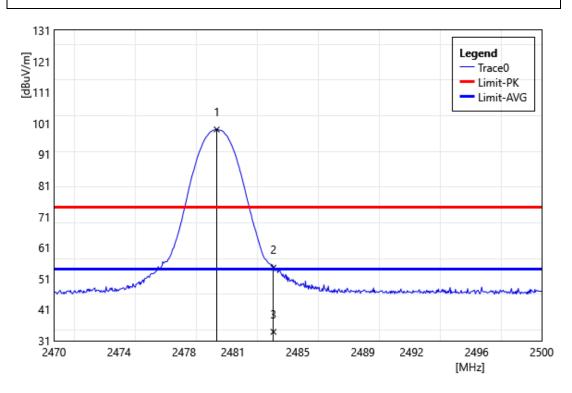
Band Edge

Test Site: 96602 - WG Standard: Part 15.247

Test Mode: BT 8DPSK 2480 MHz

Polarization: Horizontal

ReMark:



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	ReMark
1	2480.01	107.80	-8.74	99.06	74.00	25.06	PEAK
2	2483.50	63.27	-8.74	54.53	74.00	-19.47	PEAK
3	2483.50	42.63	-8.74	33.89	54.00	-20.11	AVG





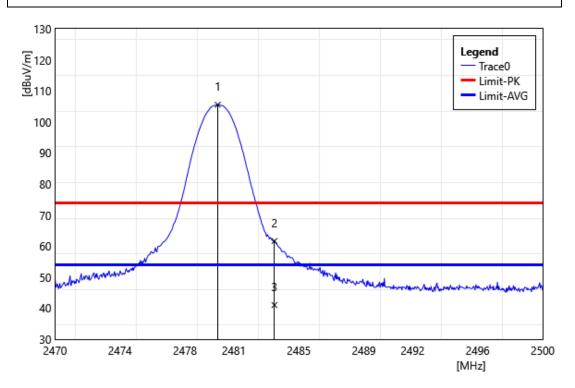


Test Site: 96602 - WG Standard: Part 15.247

Test Mode: BT 8DPSK 2480 MHz

Polarization: Vertical

ReMark:



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	ReMark
1	2480.01	114.29	-8.74	105.55	74.00	31.55	PEAK
2	2483.50	70.39	-8.74	61.65	74.00	-12.35	PEAK
3	2483.50	49.76	-8.74	41.02	54.00	-12.98	AVG





Antenna model number: custom

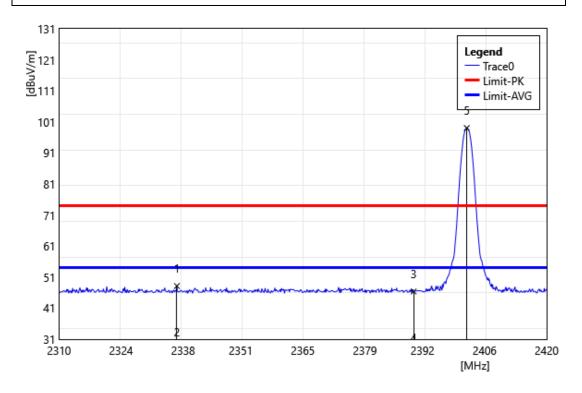
Band Edge

Test Site: 96602 - WG Standard: Part 15.247

Test Mode: BT 8DPSK 2402 MHz

Polarization: Horizontal

ReMark:



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	ReMark
1	2336.59	56.72	-8.56	48.16	74.00	-25.84	PEAK
2	2336.59	36.08	-8.56	27.52	54.00	-26.48	AVG
3	2390.00	55.06	-8.67	46.39	74.00	-27.61	PEAK
4	2390.00	34.43	-8.67	25.76	54.00	-28.24	AVG
5	2401.98	107.75	-8.70	99.05	74.00	25.05	PEAK

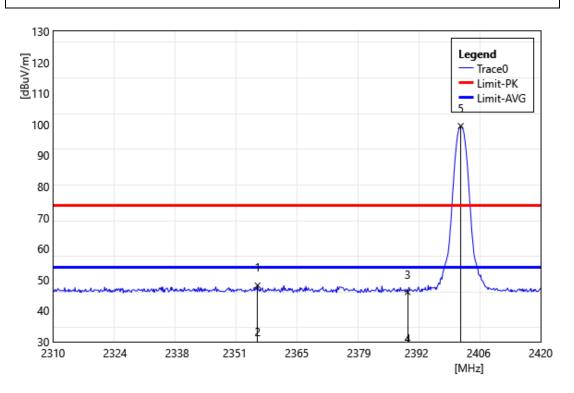


Test Site: 96602 - WG Standard: Part 15.247

Test Mode: BT 8DPSK 2402 MHz

Polarization: Vertical

ReMark:



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	ReMark
1	2356.15	56.75	-8.57	48.18	74.00	-25.82	PEAK
2	2356.15	36.12	-8.57	27.55	54.00	-26.45	AVG
3	2390.00	54.66	-8.67	45.99	74.00	-28.01	PEAK
4	2390.00	34.02	-8.67	25.35	54.00	-28.65	AVG
5	2401.98	108.22	-8.70	99.52	74.00	25.52	PEAK

---END---