

# **RF Test Report**

Applicant Verkada Inc.

**Product Name** Alarm Console

Trade Name Verkada

Model Number BC82-HW

FCC 47 CFR PART 15 SUBPART C Applicable Standard :

ANSI C63.10:2013

Received Date Jan. 18, 2023

**Test Period** Feb. 02 ~ Mar. 26, 2023

Issued Date Apr. 06, 2023

Issued by

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

Frequency Range: 9 kHz to 325 GHz (Bade test site)

Test Firm MRA designation number: TW0010

Frequency Range: 9 kHz to 40 GHz (Wugu test site)

Test Firm MRA designation number: TW0034





#### 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.

> Page 1 of 59 Report Number: USRC231205005



# **Revision History**

Version	Issued Date	Revisions	Revised By
00	Apr. 06, 2023	Initial Issue	Nicole Chu

Page 2 of 59 Report Number: USRC231205005



# Verification of Compliance

Applicant	:	Verkada Inc.
Product Name	:	Alarm Console
Trade Name	:	Verkada
Model Number	:	BC82-HW
FCC ID	:	2AWUU6075001
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
n the above standards. All inc Taiwan Co., Ltd. based on	dicat inter <sub>l</sub>	., Ltd. tested the above equipment in accordance with the requirements set forth ions of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless pretations and/or observations of test results. The test results show that the monstrating compliance with the requirements as documented in this report.
Approved By :		

Page 3 of 59 Report Number: USRC231205005



# **TABLE OF CONTENTS**

1	General Information	5
	1.1. Summary of Test Result	5
	1.2. Testing Location	6
	1.3. Measurement Uncertainty	6
2	EUT Description	7
3	Test Methodology	8
	3.1. Mode of Operation	8
	3.2. EUT Test Step	8
	3.3. Configuration of Test System Details	9
	3.4. Test Instruments	10
	3.5. Test Site Environment	13
4	Measurement Procedure	14
	4.1. AC Power Line Conducted Emission Measurement	14
	4.2. Radiated Emission Measurement	16
	4.3. Maximum Conducted Output Power Measurement	19
	4.4. 6 dB RF Bandwidth Measurement	20
	4.5. Maximum Power Density Measurement	21
	4.6. Out of Band Conducted Emissions Measurement	
	4.7. Antenna Measurement	22
5	Test Results	23
	5.1. Conducted Emission	23
	5.2. Conducted Test Results	25
	5.3 Padiated Emission Measurement	26

**Appendix A. Test Data** 

**Appendix B. Test Plots** 

**Appendix C. Test Setup Photographs** 



# 1 General Information

# 1.1. Summary of Test Result

Standard	Item	Result	Remark
15.207	AC Power Conducted Emission PASS		
15.247(d)	Transmitter Radiated Emissions	ransmitter Radiated Emissions PASS	
15.247(b)(3)	Max. Output Power	PASS	
15.247(a)(2)	6 dB RF Bandwidth PASS		
15.247(e)	Maximum Power Spectral Density	PASS	
15.247(d)	Out of Band Conducted Spurious Emission	PASS	
15.203	Antenna Requirement	PASS	

#### **Decision Rule**

- Uncertainty is not included.
- □ 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
KDB 558074 D01 15.247 Meas Guidance v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

Page 5 of 59 Report Number: USRC231205005



# 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

Test Item	Frequency Range Uncertainty		
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB	
	9 kHz ~ 30 MHz	1.9 dB	
	30 MHz ~ 1000 MHz	4.9 dB	
Radiated Emission	1000 MHz ~ 18000 MHz 5.0 dB		
	18000 MHz ~ 26500 MHz 4.4 dB		
	26500 MHz ~ 40000 MHz 4.4 dB		
Conducted Output Power	1.1	dB	
RF Bandwidth	4.7 %		
Power Spectral Density	1.1 dB		

Page 6 of 59 Report Number: USRC231205005



#### **EUT Description** 2

Applicant	Verkada Inc. 405 E. 4th Ave. San Mateo CA 94401 United States			
Product Name	Alarm Console			
Trade Name	Verkada			
Model Number	BC82-HW			
FCC ID	2AWUU6075001			
Frequency Range	2402 ~ 2480 MHz			
Modulation Type	GFSK			
Operate Temp. Range	0 ~ +40 ℃			
EUT Power Rating	10.36 VDC; Max 3 A at 10 VDC POE 37-37 VDC input; Max 0.44 A at 57 VDC			
Antenna information	Туре	Max. Gain (dBi)		
Antenna information	Monopole Antenna	2.70		
	LE, GFSK: 0.00133W			
DE Output Douge	2LE, GFSK: 0.00135W			
RF Output Power	BLR C2, GFSK: 0.00133W			
	BLR C8, GFSK: 0.00134W			

Page 7 of 59 Report Number: USRC231205005



# 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	V
BLE 1M	
BLE 2M	V
BLR C2	
BLR C8	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 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.

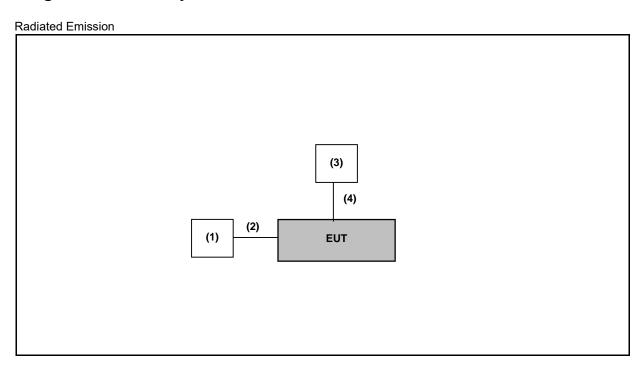
# 3.2. EUT Test Step

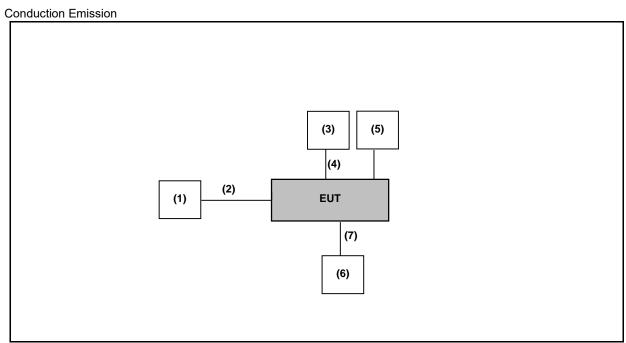
1	Setup the EUT shown on "Configuration of Test System Details".
2	Turn on the power of all equipment.
3	Turn on TX function.
4	EUT run test program.

Page 8 of 59 Report Number: USRC231205005



# 3.3. Configuration of Test System Details





Page 9 of 59 Report Number: USRC231205005



	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	Power over Ethernet (PoE) DC Power Injector	Verkada	PD-9501GC/AC		Non-shielded, 1.8 m
(2)	LAN Cable	N/A	N/A		
(3)	Notebook	HP	TPN-I130		
(4)	USB Cable	N/A	N/A		
(5)	Speaker	Caibo	S227		
(6)	HDD	Transcend	TS1TSJ25A3K		
(7)	USB Cable	Transcend	TS1TSJ25A3K		

### 3.4. Test Instruments

For Conducted Emission

Test Period: Feb. 02 ~ Mar. 26, 2023 Testing Engineer: Jayson Hsieh

Test Site			Con	duction01-BD					
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period			
	Test Receiver	R&S	ESCI	100367	May 19, 2022	1 year			
	Test Receiver	R&S	ESCI	100722	Nov. 02, 2022	1 year			
	Test Receiver	R&S	ESCI	101000	Nov. 23, 2022	1 year			
$\boxtimes$	LISN	R&S	ENV216	101040	Apr. 06, 2022	1 year			
	LISN	R&S	ENV216	101140	Jan. 12, 2023	1 year			
$\boxtimes$	RF Cable	Woken	00100D1380194M	TE-02-03	May 27, 2022	1 year			
	Software	EZ EMC	1.1.4.3	N/A	N.C.R.				

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

Page 10 of 59 Report Number: USRC231205005



For Conducted

Test Period: Feb. 03, 2023
Testing Engineer: Peter Shui

resung	esting Engineer: Peter Shui						
Test Site			RF01-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period	
	Power Sensor	Anritsu	MA2411B	1126022	Sep. 04, 2022	1 year	
	Power Meter	Anritsu	ML2495A	1135009	Sep. 04, 2022	1 year	
$\boxtimes$	Power Sensor	Agilent	N1921A	MY45241957	Nov. 30, 2022	1 year	
$\boxtimes$	Power Meter	Agilent	N1911A	MY45101619	Nov. 30, 2022	1 year	
	Spectrum Analyzer (10 Hz~26.5 GHz)	Keysight	N9010B	MY59071418	Mar. 16, 2022	1 year	
	Spectrum Analyzer (9 kHz~26.5 GHz)	Agilent	N9010A	MY48030518	Jul. 21, 2022	1 year	
$\boxtimes$	Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	Sep. 01, 2022	1 year	
	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Dec. 29, 2022	1 year	
	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 28, 2022	1 year	

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

Page 11 of 59 Report Number: USRC231205005



For Radiated Emissions

Test Period: Feb. 02 ~ Mar. 24, 2023

Testing Engineer: Kerry Xu, Marc Yeh, Hung Chou

resuring	Engineer: Kerry Xu, M Test Site	late Tell, Hally Off	96603-BD							
R	adiation test sites		Semi A	Anechoic Room						
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period				
	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	Jan. 07, 2023	1 year				
	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Dec. 29, 2022	1 year				
$\boxtimes$	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9020B	MY60112363	Jan. 13, 2023	1 year				
$\boxtimes$	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 07, 2023	1 year				
	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A10961	Jul. 07, 2022	1 year				
	Broadband Amplifier (100 kHz~1 GHz)	Titan	T0910E00014330 A1F	001	Jul. 21, 2022	1 year				
	Amplifier (1 GHz~26.5 GHz)	Agilent	8449B	3008A02237	Oct. 19, 2022	1 year				
$\boxtimes$	Broadband Amplifier (1 GHz~26.5 GHz)	Titan	T0912E01263025 A1F	002	Jul. 21, 2022	1 year				
	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Sep. 02, 2022	1 year				
$\boxtimes$	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 28, 2022	1 year				
$\boxtimes$	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jul. 22, 2022	1 year				
	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	416	Nov. 03, 2022	1 year				
$\boxtimes$	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	02207	Jul. 13, 2022	1 year				
	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	9120D-550	Aug. 25, 2022	1 year				
	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Aug. 25, 2022	1 year				
	Horn Antenna (18 GHz~40 GHz)	ETS	3116	00086467	Dec. 05, 2022	1 year				

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

Page 12 of 59 Report Number: USRC231205005



For Radiated Emissions

Test Period: Feb. 02 ~ Mar. 24, 2023

Testing Engineer: Kerry Xu, Marc Yeh, Hung Chou

	Test Site	<u></u>		96603-BD					
R	adiation test sites	Semi Anechoic Room							
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period			
$\boxtimes$	Coaxial Cable	Titan	T0710AT327A10A 100	J11005	Aug. 04, 2022	1 year			
$\boxtimes$	Coaxial Cable	Titan	T0710AT327A10A 900	J11004	Aug. 04, 2022	1 year			
$\boxtimes$	Coaxial Cable	Titan	CFD400NL-LW	001	Aug. 04, 2022	1 year			
	Bluetooth Tester	R&S	СВТ	100350	Mar. 17, 2021 Mar. 20, 2023	2 years			
	Wireless Connectivity Tester	R&S	CMW270	102208	Jun. 01, 2022	1 year			
	Power Supply	KEITHLEY	2303	4045290	Jan. 06, 2023	1 year			
$\boxtimes$	Software	EZ EMC	1.1.4.4	N/A	N.C.R.				

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

### 3.5. Test Site Environment

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

Page 13 of 59 Report Number: USRC231205005



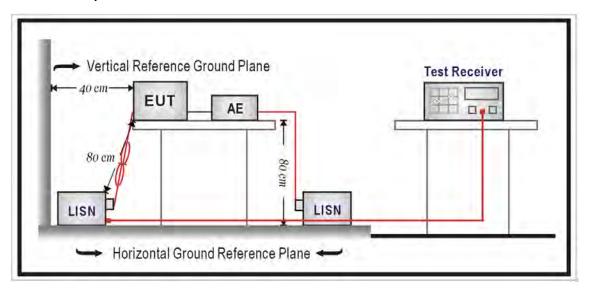
#### **Measurement Procedure** 4

# 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**



Report Number: USRC231205005 Page 14 of 59



#### **■** 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  $\Omega$ // 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  $\Omega$ // 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  $\Omega$  ports of the LISN shall be resistively terminated into 50  $\Omega$  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.

Page 15 of 59 Report Number: USRC231205005



#### 4.2. Radiated Emission Measurement

#### ■ Limit

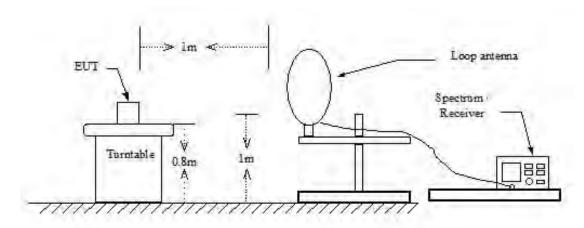
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

<sup>\*\*</sup> 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

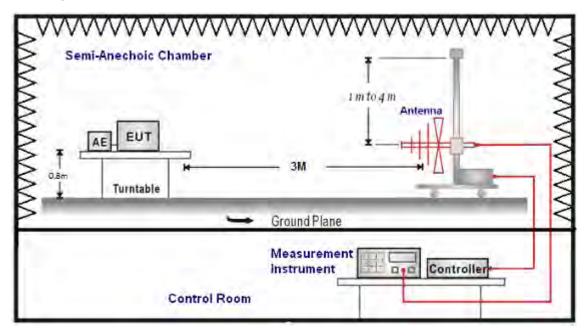
9 kHz ~ 30 MHz



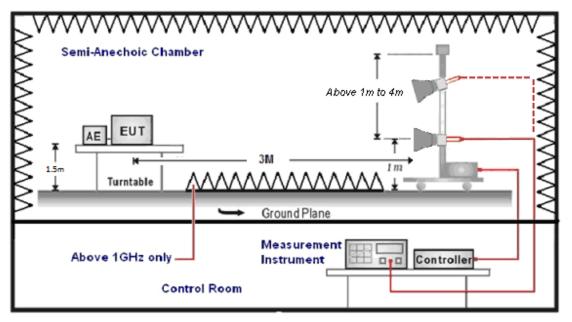
Page 16 of 59 Report Number: USRC231205005



Below 1 GHz



Above 1 GHz



Page 17 of 59

Report Number: USRC231205005



#### **■** 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 >0.98 / 1/T for average measurements when Duty cycle <0.98. 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 3 meter. The antenna at an angle toward the source of the emission. 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.

Page 18 of 59 Report Number: USRC231205005

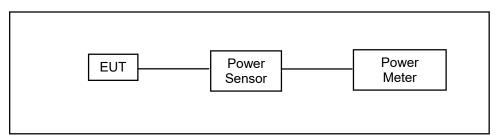


# 4.3. Maximum Conducted Output Power Measurement

#### ■ Limit

For systems using digital modulation in the 2400-2483.5 MHz, the limit for peak output power is 30 dBm.

#### ■ Test Setup



#### **■** Test Procedure

The testing follows the Measurement Procedure of ANSI C63.10:2013 section 11.9.2.3.2 Method AVGPM.

The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor..

Page 19 of 59 Report Number: USRC231205005



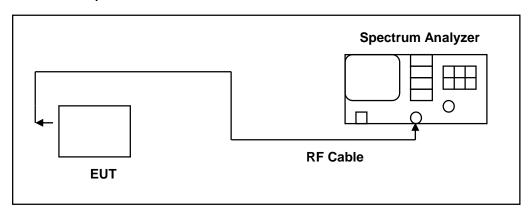
#### 4.4. 6 dB RF Bandwidth Measurement

#### ■ Limit

6 dB RF Bandwidth: Systems using digital modulation techniques may operate in the 2400–2483.5 MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

99 % Occupied Bandwidth: N/A

#### ■ Test Setup



#### **■** Test Procedure

The EUT tested to DTS test procedure of ANSI C63.10:2013 section 11.8.2 option2 for compliance to FCC 47CFR 15.247 requirements.

6 dB RF Bandwidth: The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels (Channel low, middle, high)

Page 20 of 59 Report Number: USRC231205005

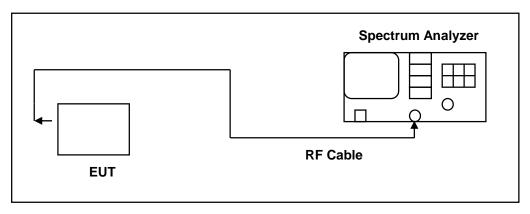


# 4.5. Maximum Power Density Measurement

#### ■ Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### ■ Test Setup



#### **■** Test Procedure

The EUT tested to DTS test procedure of ANSI C63.10:2013 section 11.10.2 Method PKPSD.

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- 4. Set the VBW  $\geq$  3  $\times$  RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Page 21 of 59 Report Number: USRC231205005

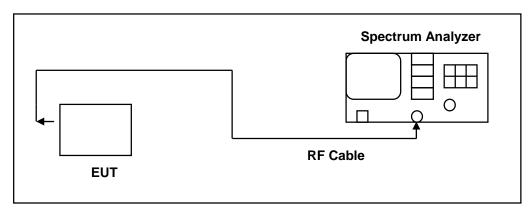


#### 4.6. Out of Band Conducted Emissions Measurement

#### ■ Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

#### ■ Test Setup



#### **■** Test Procedure

In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 30 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function. All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band. The test was performed at 3 channels.

#### 4.7. Antenna Measurement

#### ■ Limit

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Page 22 of 59

#### ■ Antenna Connector Construction

See section 2 – antenna information.

Report Number: USRC231205005

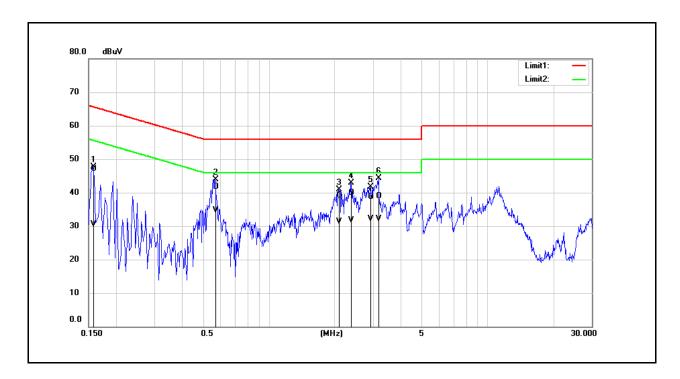


#### 5 **Test Results**

### 5.1. Conducted Emission

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

Description:



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1580	37.58	21.02	9.54	47.12	30.56	65.57	55.57	-18.45	-25.01	Pass
2	0.5700	32.21	25.22	9.55	41.76	34.77	56.00	46.00	-14.24	-11.23	Pass
3	2.0980	29.52	21.69	9.61	39.13	31.30	56.00	46.00	-16.87	-14.70	Pass
4	2.3820	30.28	22.08	9.62	39.90	31.70	56.00	46.00	-16.10	-14.30	Pass
5	2.9100	29.05	22.43	9.64	38.69	32.07	56.00	46.00	-17.31	-13.93	Pass
6	3.1820	29.30	22.49	9.64	38.94	32.13	56.00	46.00	-17.06	-13.87	Pass

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

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Report Number: USRC231205005 Page 23 of 59

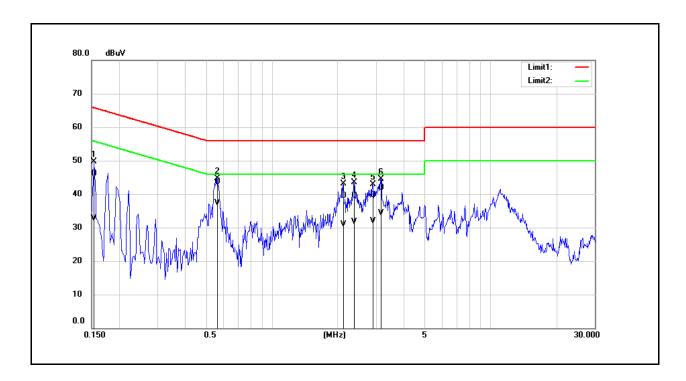


Standard: Part 15.247 Line:

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

Mode: Transmit Mode

Description:



No.	Frequency	QP	AVG	Correction	QP	AVG	QP	AVG	QP	AVG	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1540	36.59	23.18	9.60	46.19	32.78	65.78	55.78	-19.59	-23.00	Pass
2	0.5620	34.03	27.78	9.61	43.64	37.39	56.00	46.00	-12.36	-8.61	Pass
3	2.1140	29.91	21.24	9.68	39.59	30.92	56.00	46.00	-16.41	-15.08	Pass
4	2.3820	29.87	21.96	9.69	39.56	31.65	56.00	46.00	-16.44	-14.35	Pass
5	2.8900	29.93	22.28	9.70	39.63	31.98	56.00	46.00	-16.37	-14.02	Pass
6	3.1540	32.10	24.65	9.71	41.81	34.36	56.00	46.00	-14.19	-11.64	Pass

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

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Page 24 of 59 Report Number: USRC231205005



# 5.2. Conducted Test Results

### **Duty cycle**

Reference Appendix A / Appendix B

#### **Maximum Conducted Output Power Measurement**

Reference Appendix A

### 6 dB RF Bandwidth Measurement

Reference Appendix A / Appendix B

#### **Maximum Power Density Measurement**

Reference Appendix A / Appendix B

# Out of Band Conducted Emissions Measurement

#### Reference level

Reference Appendix B

#### **Out of Band Conducted Emissions**

Reference Appendix B

### **Conducted Band Edge**

Reference Appendix B

Page 25 of 59 Report Number: USRC231205005



### 5.3. Radiated Emission Measurement

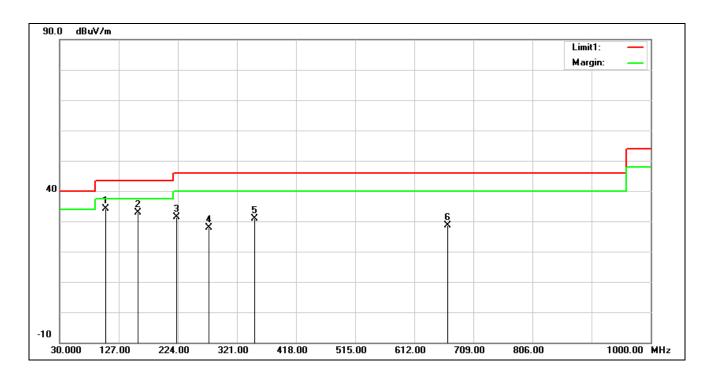
#### Below 1 GHz

Standard: Part 15.247 Test Site: 966 Chamber

Polarization: Horizontal

Test Mode: BLE 2M 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	105.6600	45.73	-11.52	34.21	43.50	-9.29	QP
2	159.0100	39.67	-6.85	32.82	43.50	-10.68	QP
3	222.0600	40.41	-8.99	31.42	46.00	-14.58	QP
4	275.4100	34.35	-6.50	27.85	46.00	-18.15	QP
5	350.1000	35.71	-4.75	30.96	46.00	-15.04	QP
6	667.2900	27.69	0.82	28.51	46.00	-17.49	QP

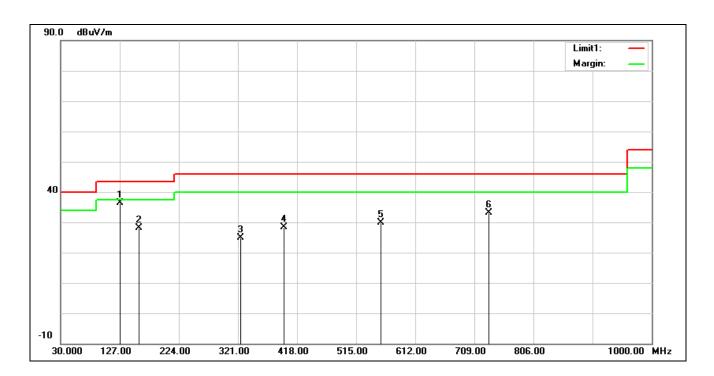
Page 26 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLE 2M 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	127.0000	45.60	-9.16	36.44	43.50	-7.06	QP
2	159.0100	35.09	-6.85	28.24	43.50	-15.26	QP
3	324.8800	30.21	-5.28	24.93	46.00	-21.07	QP
4	396.6600	32.15	-3.74	28.41	46.00	-17.59	QP
5	555.7400	30.70	-0.90	29.80	46.00	-16.20	QP
6	732.2800	30.67	2.39	33.06	46.00	-12.94	QP

Page 27 of 59 Report Number: USRC231205005



#### Harmonic

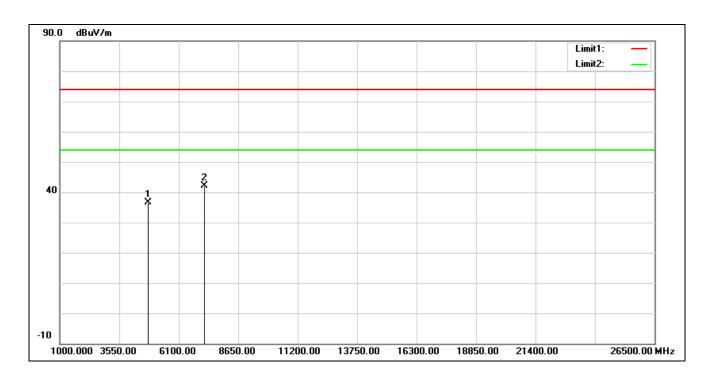
### Above 1 GHz

Standard: Part 15.247 Test Site: 966 Chamber

Polarization: Horizontal

Test Mode: BLE 2M 2402 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	36.46	0.29	36.75	74.00	-37.25	peak
2*	7206.000	34.33	7.82	42.15	74.00	-31.85	peak

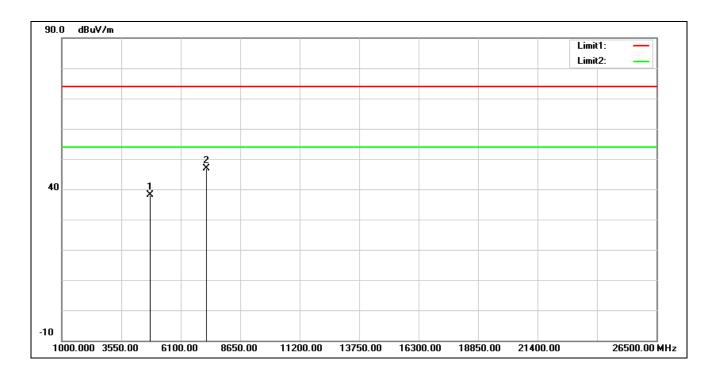
Page 28 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLE 2M 2402 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	37.86	0.29	38.15	74.00	-35.85	peak
2*	7206.000	38.94	7.82	46.76	74.00	-27.24	peak

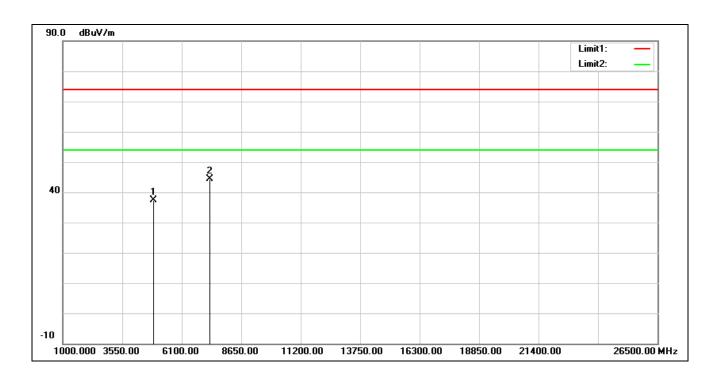
Page 29 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: BLE 2M 2440 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4880.000	36.96	0.38	37.34	74.00	-36.66	peak
2*	7320.000	36.36	7.99	44.35	74.00	-29.65	peak

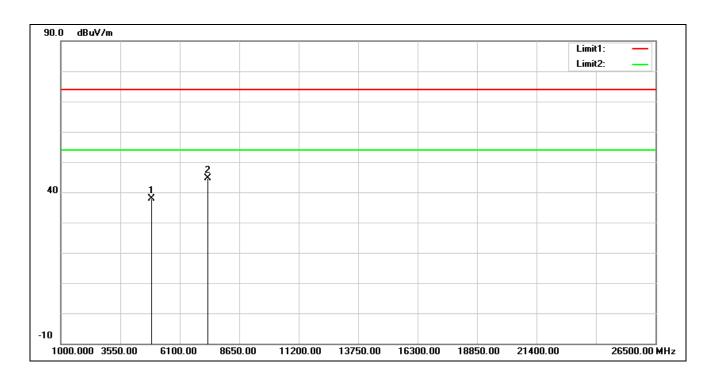
Page 30 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLE 2M 2440 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4880.000	37.38	0.38	37.76	74.00	-36.24	peak
2*	7320.000	36.56	7.99	44.55	74.00	-29.45	peak

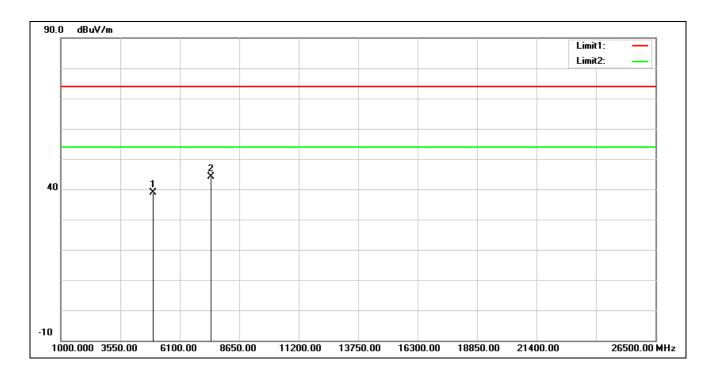
Page 31 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: BLE 2M 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4960.000	38.43	0.57	39.00	74.00	-35.00	peak
2*	7440.000	35.81	8.34	44.15	74.00	-29.85	peak

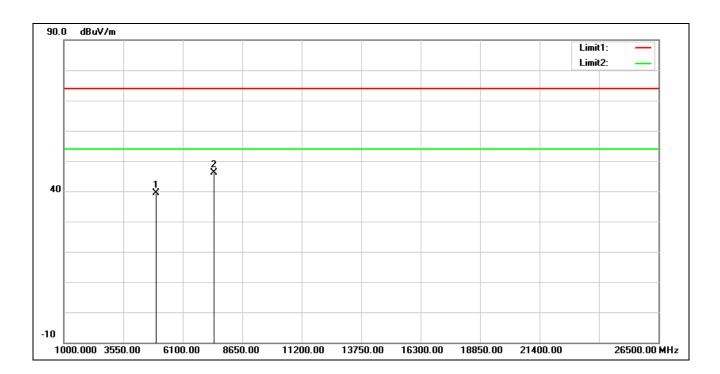
Page 32 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLE 2M 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4960.000	38.69	0.57	39.26	74.00	-34.74	peak
2*	7440.000	37.69	8.34	46.03	74.00	-27.97	peak

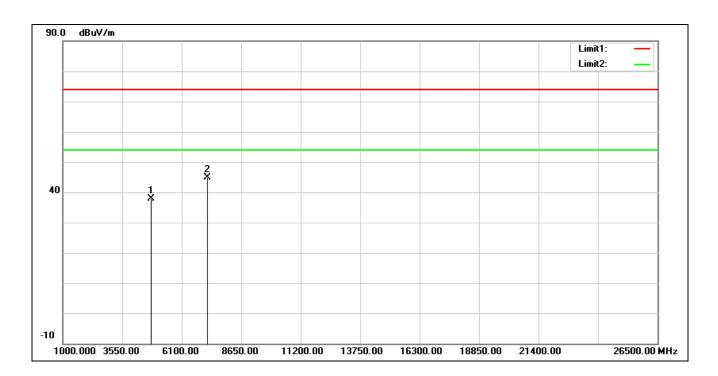
Page 33 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: BLR C8 2402 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	37.55	0.29	37.84	74.00	-36.16	peak
2*	7206.000	37.13	7.82	44.95	74.00	-29.05	peak

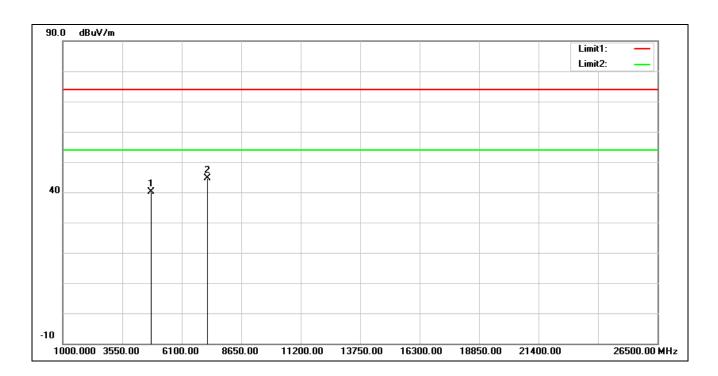
Page 34 of 59 Report Number: USRC231205005



Polarization: Vertical

BLR C8 2402 MHz Test Mode:

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	39.81	0.29	40.10	74.00	-33.90	peak
2*	7206.000	36.73	7.82	44.55	74.00	-29.45	peak

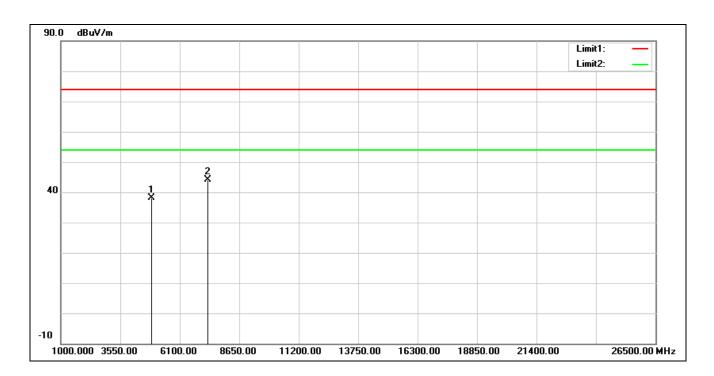
Page 35 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: BLR C8 2440 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4880.000	37.77	0.38	38.15	74.00	-35.85	peak
2*	7320.000	36.21	7.99	44.20	74.00	-29.80	peak

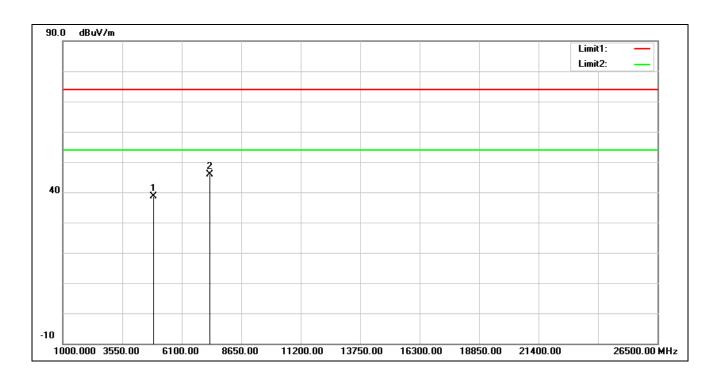
Page 36 of 59 Report Number: USRC231205005



Polarization: Vertical

BLR C8 2440 MHz Test Mode:

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4880.000	38.27	0.38	38.65	74.00	-35.35	peak
2*	7320.000	37.96	7.99	45.95	74.00	-28.05	peak

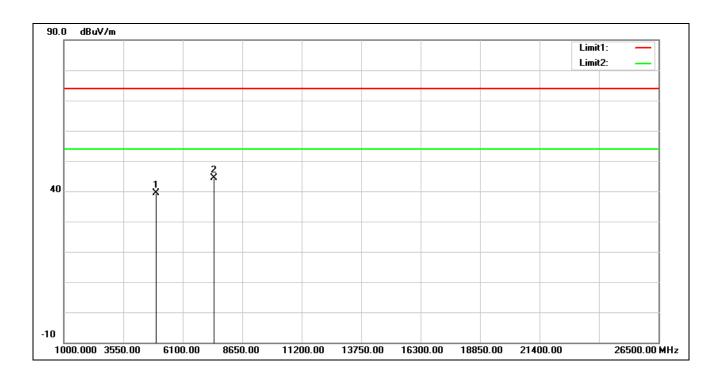
Page 37 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: BLR C8 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4960.000	38.79	0.57	39.36	74.00	-34.64	peak
2*	7440.000	36.11	8.34	44.45	74.00	-29.55	peak

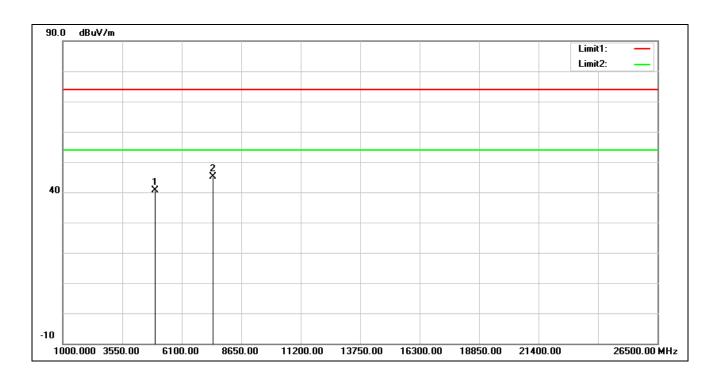
Page 38 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLR C8 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4960.000	40.12	0.57	40.69	74.00	-33.31	peak
2*	7440.000	36.68	8.34	45.02	74.00	-28.98	peak

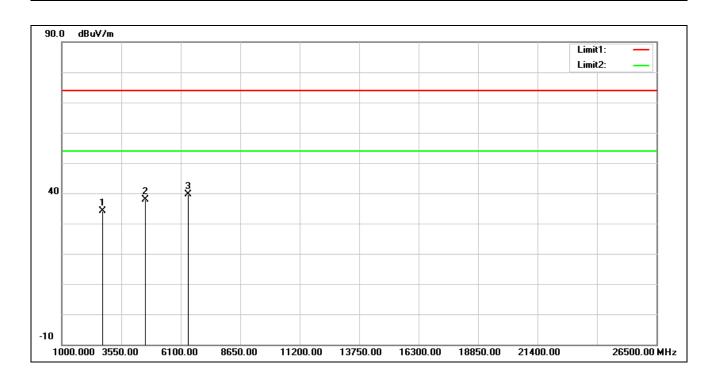
Page 39 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: Simultaneous Transmitting

Remark: WLAN 2.4G+Bluetooth



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2751.000	39.80	-5.61	34.19	74.00	-39.81	peak
2	4570.000	38.67	-0.68	37.99	74.00	-36.01	peak
3*	6389.000	35.09	4.64	39.73	74.00	-34.27	peak

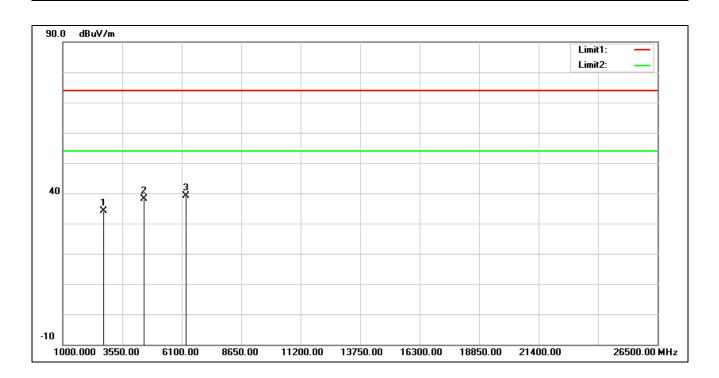
Page 40 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: Simultaneous Transmitting

Remark: WLAN 2.4G+Bluetooth



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2734.000	39.94	-5.71	34.23	74.00	-39.77	peak
2	4451.000	39.29	-1.16	38.13	74.00	-35.87	peak
3*	6270.000	34.94	4.14	39.08	74.00	-34.92	peak

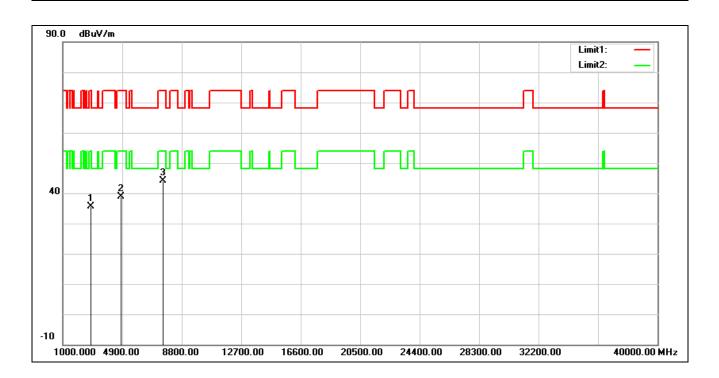
Page 41 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: Simultaneous Transmitting

Remark: WLAN 5G+Bluetooth



No	0.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1	2819.000	40.94	-5.26	35.68	74.00	-38.32	peak
2	2	4825.000	38.49	0.28	38.77	74.00	-35.23	peak
3	*	7562.000	35.79	8.45	44.24	74.00	-29.76	peak

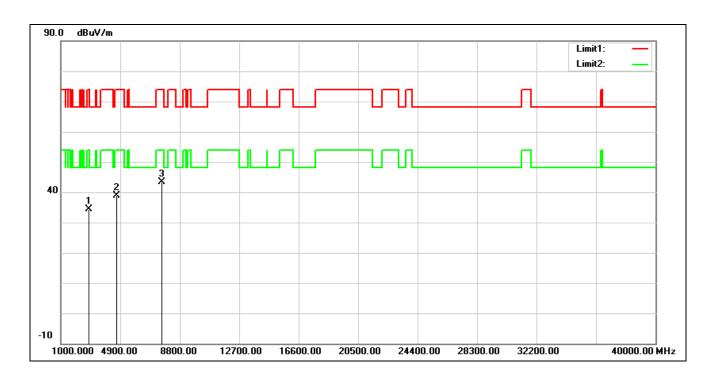
Page 42 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: Simultaneous Transmitting

Remark: WLAN 5G+Bluetooth



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2836.000	39.53	-5.23	34.30	74.00	-39.70	peak
2	4638.000	39.26	-0.42	38.84	74.00	-35.16	peak
3*	7630.000	35.11	8.29	43.40	74.00	-30.60	peak

Page 43 of 59 Report Number: USRC231205005



## Band Edge

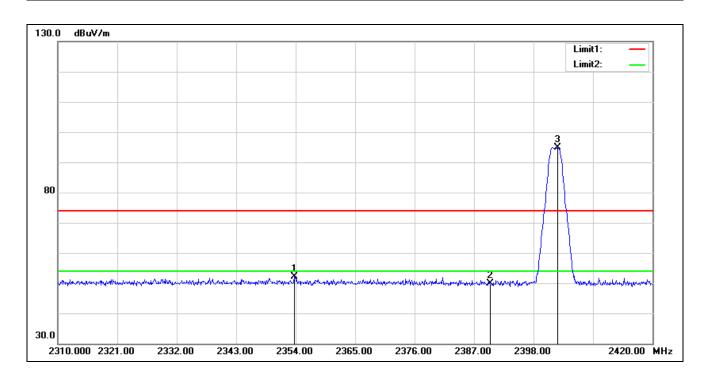
Peak

Standard: Part 15.247 Test Site: 966 Chamber

Polarization: Horizontal

Test Mode: BLE 2M 2402 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2353.780	58.24	-6.02	52.22	74.00	-21.78	peak
2	2390.000	56.17	-6.19	49.98	74.00	-24.02	peak
3*	2402.510	101.08	-6.25	94.83	74.00	20.83	peak

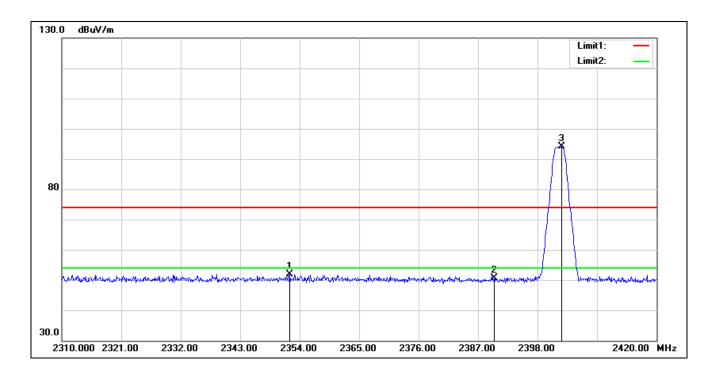
Page 44 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLE 2M 2402 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2352.130	57.89	-6.01	51.88	74.00	-22.12	peak
2	2390.000	56.77	-6.19	50.58	74.00	-23.42	peak
3*	2402.510	100.27	-6.25	94.02	74.00	20.02	peak

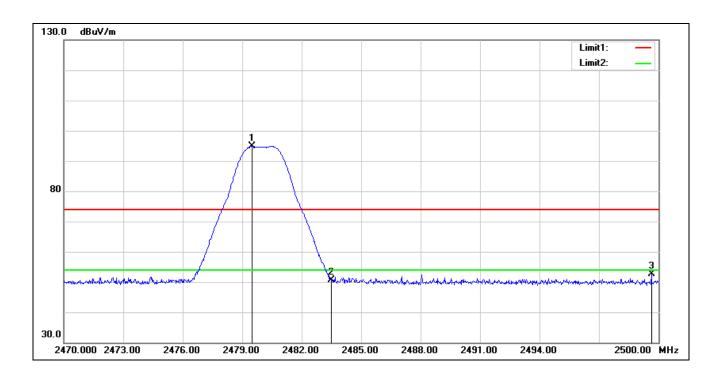
Page 45 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: BLE 2M 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2479.510	101.35	-6.46	94.89	74.00	20.89	peak
2	2483.500	57.11	-6.46	50.65	74.00	-23.35	peak
3	2499.640	59.16	-6.51	52.65	74.00	-21.35	peak

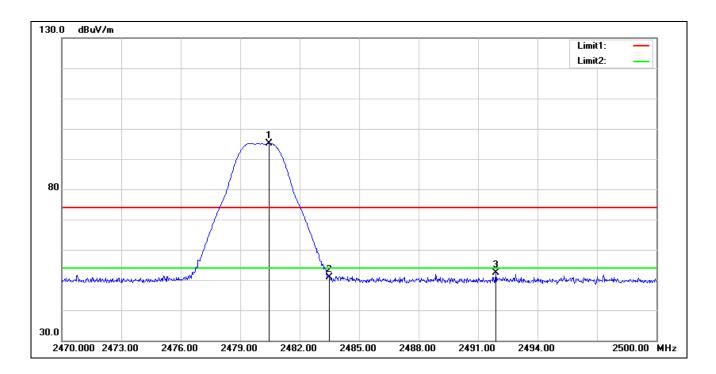
Page 46 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLE 2M 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2480.470	101.68	-6.46	95.22	74.00	21.22	peak
2	2483.500	57.37	-6.46	50.91	74.00	-23.09	peak
3	2491.900	58.92	-6.49	52.43	74.00	-21.57	peak

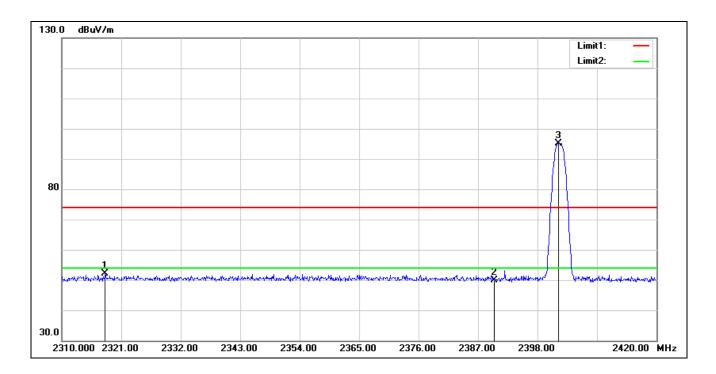
Page 47 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: BLR C8 2402 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2318.030	58.26	-6.10	52.16	74.00	-21.84	peak
2	2390.000	56.15	-6.19	49.96	74.00	-24.04	peak
3*	2401.850	101.45	-6.25	95.20	74.00	21.20	peak

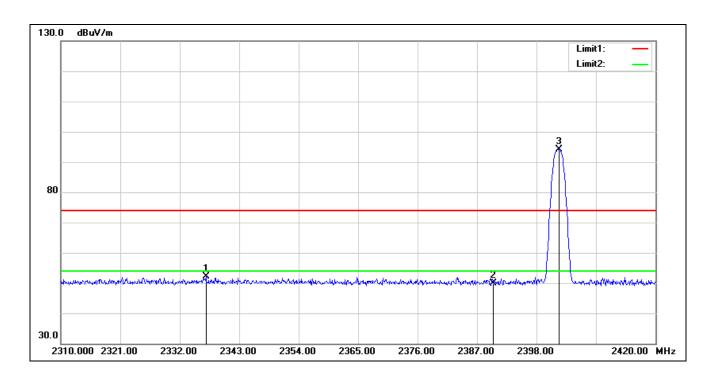
Page 48 of 59 Report Number: USRC231205005



Polarization: Vertical

BLR C8 2402 MHz Test Mode:

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2336.840	58.05	-6.04	52.01	74.00	-21.99	peak
2	2390.000	56.09	-6.19	49.90	74.00	-24.10	peak
3*	2402.180	100.42	-6.25	94.17	74.00	20.17	peak

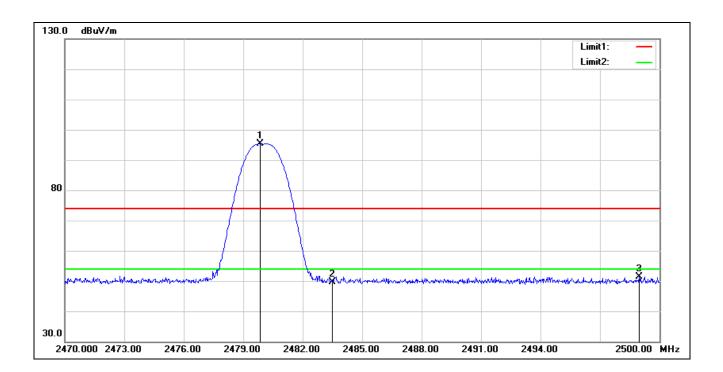
Page 49 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: BLR C8 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2479.840	101.77	-6.46	95.31	74.00	21.31	peak
2	2483.500	56.04	-6.46	49.58	74.00	-24.42	peak
3	2498.980	57.95	-6.51	51.44	74.00	-22.56	peak

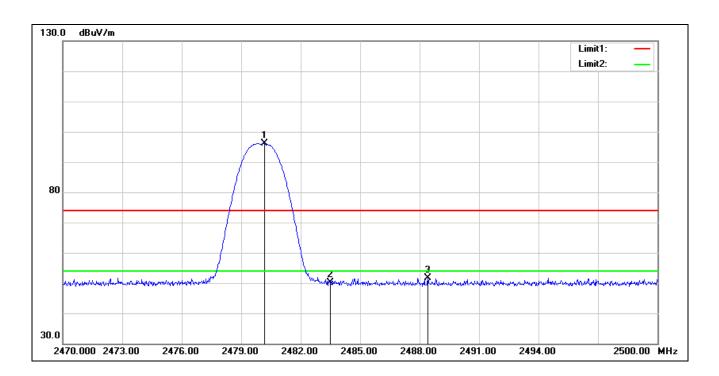
Page 50 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLR C8 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2480.170	102.50	-6.46	96.04	74.00	22.04	peak
2	2483.500	56.57	-6.46	50.11	74.00	-23.89	peak
3	2488.420	58.10	-6.47	51.63	74.00	-22.37	peak

Page 51 of 59 Report Number: USRC231205005



## Band Edge

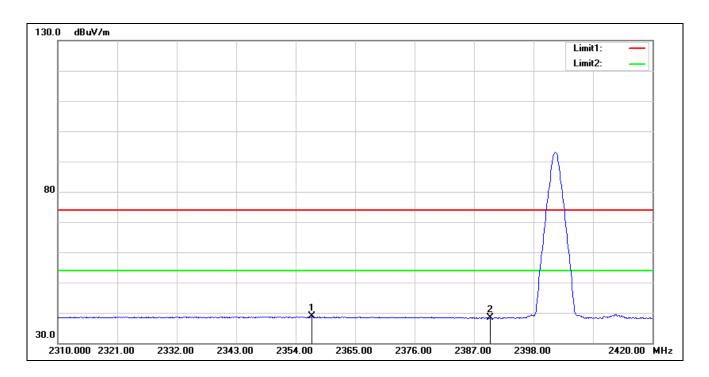
## Average

Standard: Part 15.247 Test Site: 966 Chamber

Polarization: Horizontal

Test Mode: BLE 2M 2402 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2356.970	44.80	-6.03	38.77	54.00	-15.23	AVG
2	2390.000	44.52	-6.19	38.33	54.00	-15.67	AVG

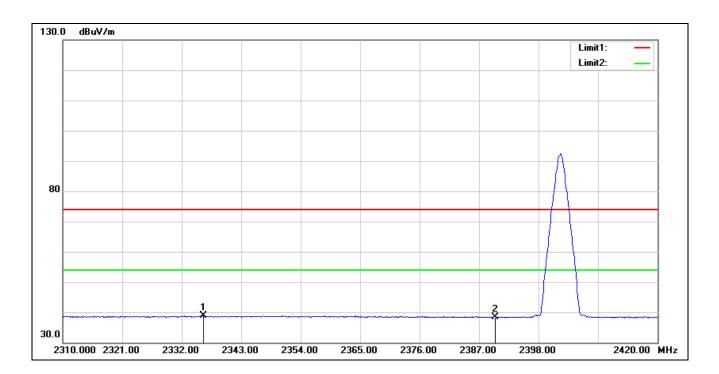
Page 52 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLE 2M 2402 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2335.960	44.85	-6.04	38.81	54.00	-15.19	AVG
2	2390.000	44.56	-6.19	38.37	54.00	-15.63	AVG

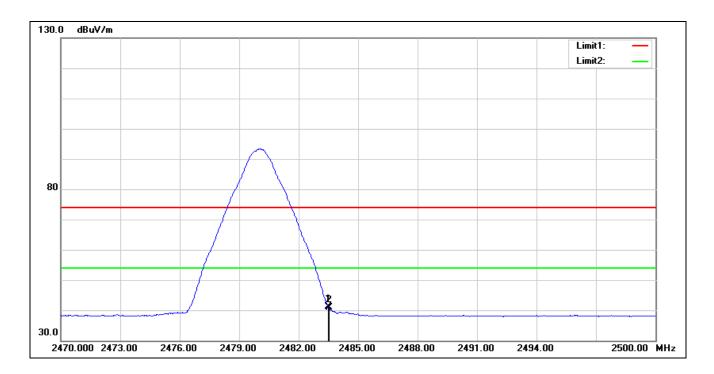
Page 53 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: BLE 2M 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2483.500	47.56	-6.46	41.10	54.00	-12.90	AVG
2	2483.530	47.29	-6.46	40.83	54.00	-13.17	AVG

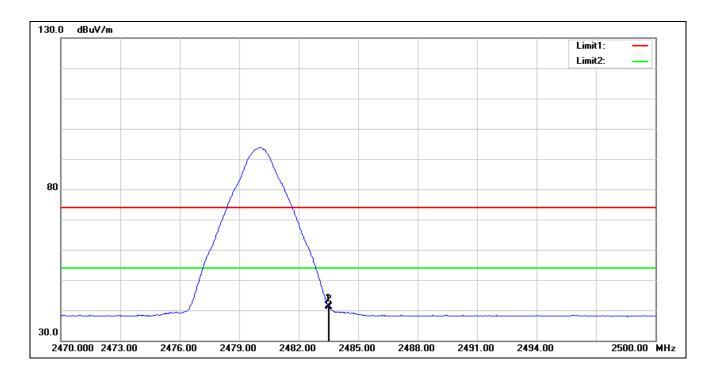
Page 54 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLE 2M 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2483.500	47.76	-6.46	41.30	54.00	-12.70	AVG
2	2483.530	47.54	-6.46	41.08	54.00	-12.92	AVG

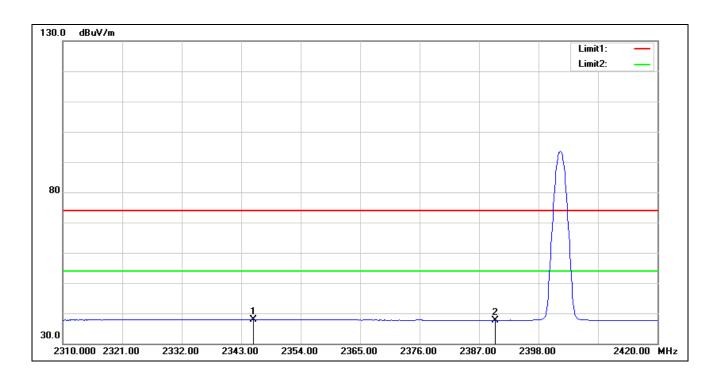
Page 55 of 59 Report Number: USRC231205005



Polarization: Horizontal

BLR C8 2402 MHz Test Mode:

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2345.200	43.92	-6.01	37.91	54.00	-16.09	AVG
2	2390.000	43.87	-6.19	37.68	54.00	-16.32	AVG

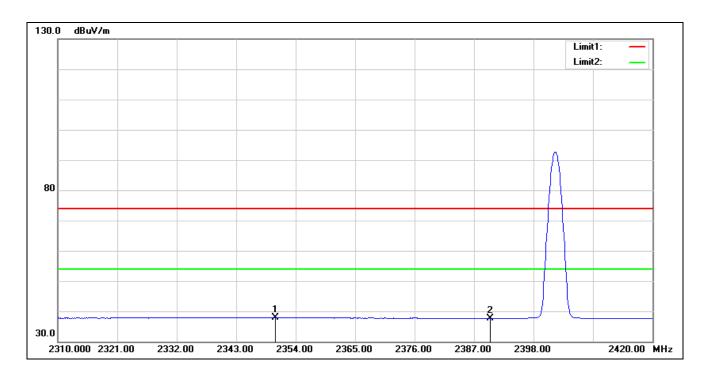
Page 56 of 59 Report Number: USRC231205005



Polarization: Vertical

BLR C8 2402 MHz Test Mode:

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2350.260	43.89	-6.00	37.89	54.00	-16.11	AVG
2	2390.000	43.84	-6.19	37.65	54.00	-16.35	AVG

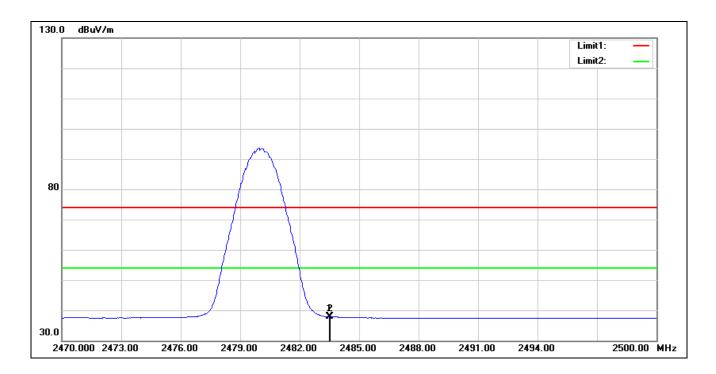
Page 57 of 59 Report Number: USRC231205005



Polarization: Horizontal

Test Mode: BLR C8 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2483.500	44.31	-6.46	37.85	54.00	-16.15	AVG
2	2483.530	44.30	-6.46	37.84	54.00	-16.16	AVG

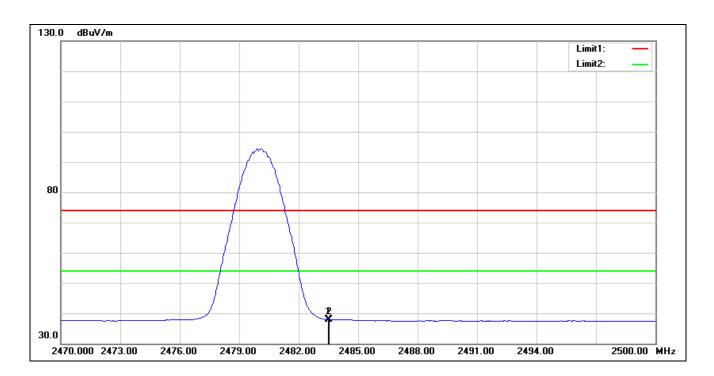
Page 58 of 59 Report Number: USRC231205005



Polarization: Vertical

Test Mode: BLR C8 2480 MHz

Remark:



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	2483.500	44.40	-6.46	37.94	54.00	-16.06	AVG
2	2483.530	44.39	-6.46	37.93	54.00	-16.07	AVG

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Page 59 of 59 Report Number: USRC231205005