

## RADIO TEST REPORT FCC ID: 2A2P9-EFCP100DIY

Product:EcoFlow PowerPulse EV Charger (9.6kW),<br/>EcoFlow PowerPulse EV Charger (11.5kW)Trade Mark:EF ECOFLOW, ECOFLOWModel No.:EF-EVAC-11K5-DIYFamily Model:EF-EVAC-9K6-DIYReport No.:S25030503302001Issue Date:Mar. 18, 2025

## **Prepared for**

EcoFlow Inc.

RM 401,Plant #1,Runheng Industrial Zone,Fuhai Street,Bao'an District,Shenzhen, 518000 China

## Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

Tel. 0755-23200050 Website: http://www.ntek.org.cn





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### **1 TEST RESULT CERTIFICATION**

Applicant's name:	EcoFlow Inc.
Address:	RM 401,Plant #1,Runheng Industrial Zone,Fuhai Street,Bao'an District,Shenzhen, 518000 China
Manufacturer's Name:	EcoFlow Inc.
Address:	RM 401,Plant #1,Runheng Industrial Zone,Fuhai Street,Bao'an District,Shenzhen, 518000 China
Product description	
Product name:	EcoFlow PowerPulse EV Charger (9.6kW),
	EcoFlow PowerPulse EV Charger (11.5kW)
Model and/or type reference:	EF-EVAC-11K5-DIY
Family Model	EF-EVAC-9K6-DIY
Sample number	S250305033003
Date of Test:	Mar. 05, 2025 ~ Mar. 18, 2025
Measurement Procedure Used:	
	APPLICABLE STANDARDS

 APPLICABLE STANDARDS

 APPLICABLE STANDARD/ TEST PROCEDURE
 TEST RESULT

 FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C

 ANSI C63.10-2013
 Complied

 KDB 558074 D01 15.247 Meas Guidance v05r02
 Compliant

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Allen Liu (Project Engineer)
Reviewed By: Aaron Cheng Aaron Cheng Approved By: Alex Liv Allen Liv Prepared . By (Project Engineer) (Manager) (Supervisor)

#### SUMMARY OF TEST RESULTS 2

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FCC Part15 (15.247), Subpart C						
Standard Section Test Item Verdict Remark						
15.207 Conducted Emission PASS						
15.247 (a)(2) 6dB Bandwidth PASS						
15.247 (b)	17 (b) Peak Output Power PASS					
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS				
15.247 (e)	Power Spectral Density	PASS				
15.247 (d)	Band Edge Emission	PASS				
15.247 (d) Spurious RF Conducted Emission PASS						
15.203	Antenna Requirement	PASS				

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#### Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.





### **3 FACILITIES AND ACCREDITATIONS**

#### 3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China..

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

#### 3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
-	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan
	District, Shenzhen, Guangdong, People's Republic of China

#### 3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y\pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB
10	Occupied bandwidth	±3.7dB



### 4 GENERAL DESCRIPTION OF EUT

	Product Feature and Specification			
Equipment	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)			
Trade Mark	EF ECOFLOW, ECOFLOW			
FCC ID	2A2P9-EFCP100DIY			
Model No.	EF-EVAC-11K5-DIY			
Family Model	EF-EVAC-9K6-DIY			
Model Difference	EF-EVAC-11K5-DIY (power cord directly connected to the charging pile, no input plug, 48A, 11.5kW) EF-EVAC-9K6-DIY (input with 5+8 cable, with 5+8 input connection terminal, 40A, 9.6kW)			
Operating Frequency	2402MHz~2480MHz			
Modulation	GFSK			
Number of Channels	40 Channels			
Antenna Type	FPC Antenna			
Antenna Gain	5.05 dBi			
Adapter	N/A			
Battery	N/A			
Power supply	AC 120V/60Hz			
HW Version	N/A			
FW Version	N/A			
SW Version	N/A			

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

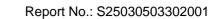




### **Revision History**

Report No.	Version	Description	Issued Date
S25030503302001	Rev.01	Initial issue of report	Mar. 18, 2025
			-





### 5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps/2Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
19	2440
20	2442
38	2478
39	2480

Note: fc=2402MHz+kx2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases				
Test Item	Data Rate/ Modulation			
AC Conducted Emission Mode 1: normal link mode				
	Mode 1: normal link mode			
Radiated Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps			
Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps			
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/2Mbps			
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps			
Conducted Test	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps			
Cases	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/2Mbps			

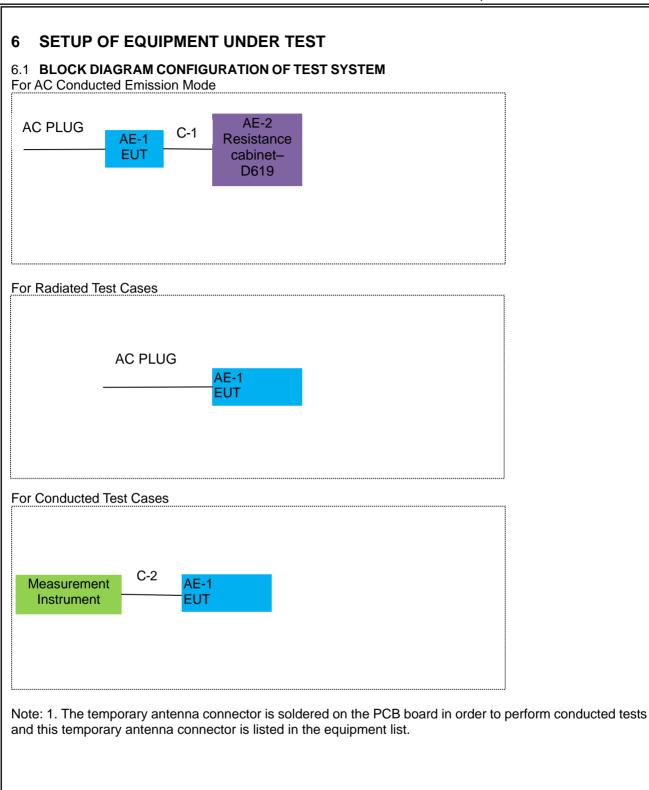
Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode

2. AC power line Conducted Emission was tested under maximum output power.

3. For radiated test cases, the worst mode data rate 2Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.





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#### 6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	EF-EVAC-11K5-DIY	N/A	EUT
AE-2	Resistance cabinet– D619	54KW	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	CPT Cable	NO	NO	1.0m
C-2	RF Cable	YES	NO	0.1m

#### Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



#### 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

	ond conducted	loot oquipinont					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.04.26	2025.04.25	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.25	2025.04.24	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.04.25	2025.04.24	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.04.26	2025.04.25	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12	2025.05.11	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2024.04.25	2025.04.24	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2024.04.25	2025.04.24	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



AC Co	AC Conduction Test equipment							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period	
1	Test Receiver	R&S	ESCI	101160	2024.04.26	2025.04.25	1 year	
2	LISN	R&S	ENV216	101313	2024.04.25	2025.04.24	1 year	
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.04.25	2025.04.24	1 year	
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year	
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year	
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year	
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year	

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Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

# NTEK 北测<sup>®</sup>



### 7 TEST REQUIREMENTS

#### 7.1 CONDUCTED EMISSIONS TEST

#### 7.1.1 Applicable Standard

According to FCC Part 15.207(a)

#### 7.1.2 Conformance Limit

	Conducted Emission Limit			
Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

Note: 1. \*Decreases with the logarithm of the frequency

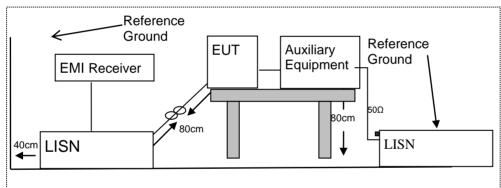
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### 7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.1.4 Test Configuration



#### 7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. 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 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.





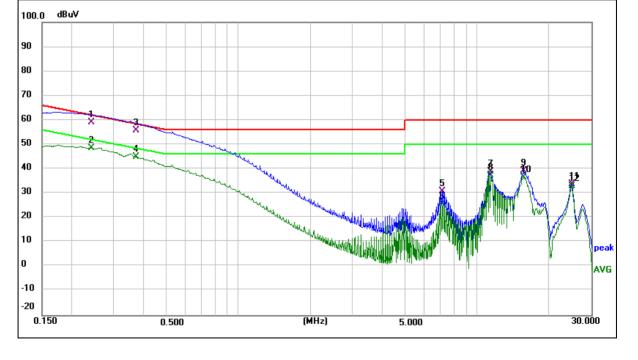
#### 7.1.6 Test Results

EUT:	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model Name :	EF-EVAC-11K5-DIY
Temperature:	21.3 °C	Relative Humidity:	41.5%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

	1	1				1
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2429	58.34	0.76	59.10	62.00	-2.90	QP
0.2429	47.81	0.76	48.57	52.00	-3.43	AVG
0.3712	54.54	1.06	55.60	58.47	-2.87	QP
0.3712	43.95	1.06	45.01	48.47	-3.46	AVG
7.1100	30.33	0.66	30.99	60.00	-29.01	QP
7.1100	25.06	0.66	25.72	50.00	-24.28	AVG
11.3260	38.30	0.58	38.88	60.00	-21.12	QP
11.3260	36.90	0.58	37.48	50.00	-12.52	AVG
15.7140	38.56	0.60	39.16	60.00	-20.84	QP
15.7140	36.01	0.60	36.61	50.00	-13.39	AVG
24.9220	33.18	0.81	33.99	60.00	-26.01	QP
24.9220	32.05	0.81	32.86	50.00	-17.14	AVG

Remark:

1. All readings are Quasi-Peak and Average values.





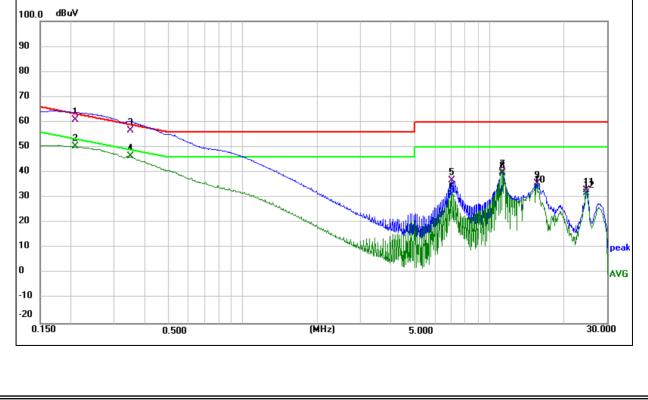


	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model Name :	EF-EVAC-11K5-DIY
Temperature:	<b>21.3</b> ℃	Relative Humidity:	41.5%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demeril
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2083	60.17	0.73	60.90	63.27	-2.37	QP
0.2083	49.52	0.73	50.25	53.27	-3.02	AVG
0.3500	55.72	0.98	56.70	58.96	-2.26	QP
0.3500	45.40	0.98	46.38	48.96	-2.58	AVG
7.0420	36.18	0.61	36.79	60.00	-23.21	QP
7.0420	30.48	0.61	31.09	50.00	-18.91	AVG
11.2620	39.69	0.60	40.29	60.00	-19.71	QP
11.2620	38.82	0.60	39.42	50.00	-10.58	AVG
15.5700	34.95	0.64	35.59	60.00	-24.41	QP
15.5700	33.23	0.64	33.87	50.00	-16.13	AVG
24.8819	32.02	0.79	32.81	60.00	-27.19	QP
24.8819	31.01	0.79	31.80	50.00	-18.20	AVG

Remark:

1. All readings are Quasi-Peak and Average values.





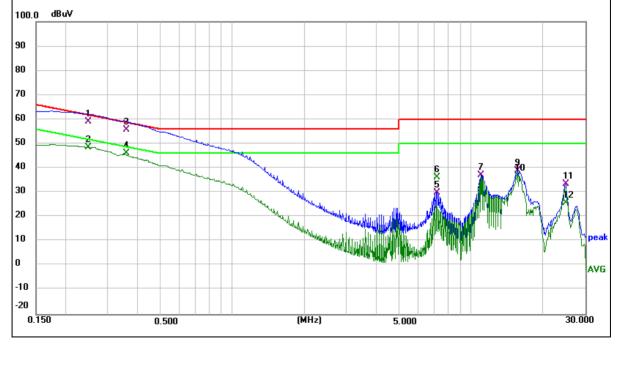


EUT:	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model Name :	EF-EVAC-9K6-DIY
Temperature:	21.3 ℃	Relative Humidity:	41.5%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domorik
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2481	58.32	0.78	59.10	61.82	-2.72	QP
0.2481	47.87	0.78	48.65	51.82	-3.17	AVG
0.3595	54.86	1.04	55.90	58.74	-2.84	QP
0.3595	44.98	1.04	46.02	48.74	-2.72	AVG
7.2020	29.44	0.65	30.09	60.00	-29.91	QP
7.2020	35.68	0.65	36.33	50.00	-13.67	AVG
10.9740	36.59	0.58	37.17	60.00	-22.83	QP
10.9740	28.78	0.58	29.36	50.00	-20.64	AVG
15.6260	38.44	0.59	39.03	60.00	-20.97	QP
15.6260	36.16	0.59	36.75	50.00	-13.25	AVG
24.8338	32.85	0.81	33.66	60.00	-26.34	QP
24.8338	24.85	0.81	25.66	50.00	-24.34	AVG

Remark:

1. All readings are Quasi-Peak and Average values.





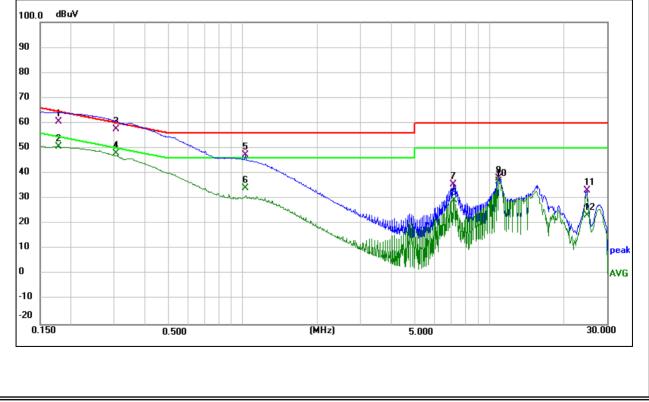


EUT:	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model Name :	EF-EVAC-9K6-DIY
Temperature:	<b>21.3</b> ℃	Relative Humidity:	41.5%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demorte
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1780	60.07	0.63	60.70	64.58	-3.88	QP
0.1780	49.91	0.63	50.54	54.58	-4.04	AVG
0.3060	56.61	0.89	57.50	60.08	-2.58	QP
0.3060	46.98	0.89	47.87	50.08	-2.21	AVG
1.0220	44.91	2.29	47.20	56.00	-8.80	QP
1.0220	31.92	2.29	34.21	46.00	-11.79	AVG
7.1060	35.08	0.61	35.69	60.00	-24.31	QP
7.1940	28.76	0.61	29.37	50.00	-20.63	AVG
10.9620	37.38	0.60	37.98	60.00	-22.02	QP
10.9620	36.26	0.60	36.86	50.00	-13.14	AVG
24.8098	32.61	0.79	33.40	60.00	-26.60	QP
24.8098	22.57	0.79	23.36	50.00	-26.64	AVG

Remark:

1. All readings are Quasi-Peak and Average values.







#### 7.2 **RADIATED SPURIOUS EMISSION**

#### 7.2.1 Applicable Standard

#### According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

#### 7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

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10001 ang 10 1 00 1 art 10.20			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423 399.9-410		4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

	Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance		
Ī	0.009~0.490	2400/F(KHz)	20 log (uV/m)	300		
Ī	0.490~1.705	24000/F(KHz)	20 log (uV/m)	30		
	1.705~30.0	30	29.5	30		
	30-88	100	40	3		
	88-216	150	43.5	3		
	216-960	200	46	3		
	Above 960	500	54	3		

Limits of Radiated Emission Measurement(Above 1000MHz)

Eroguopov(MHz)	Class B (dBuV/m) (at 3M)						
Frequency(MHz)	PEAK	AVERAGE					
Above 1000	74	54					

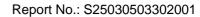
Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB);





Limit line=Specific limits(dBuV) + distance extrapolation factor.

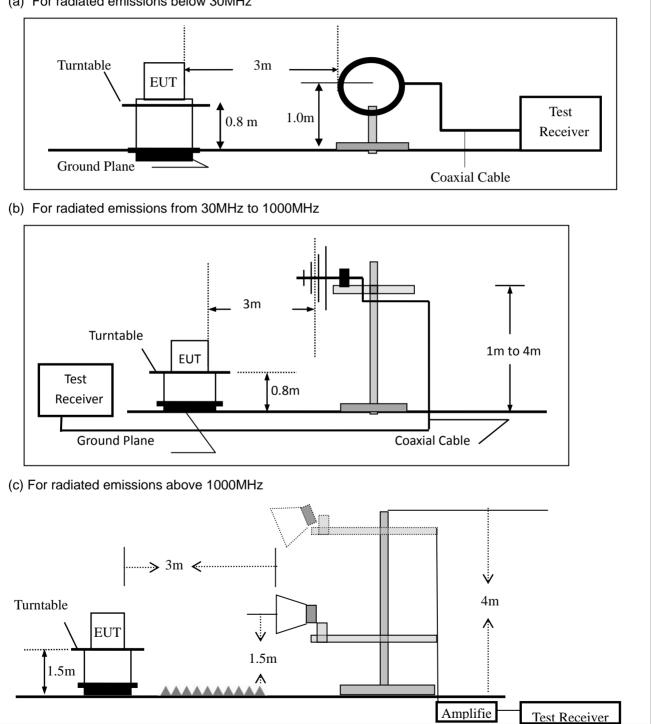
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#### 7.2.3 **Measuring Instruments**

The Measuring equipment is listed in the section 6.3 of this test report.

#### **Test Configuration** 7.2.4

(a) For radiated emissions below 30MHz







The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

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This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.
   Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

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Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10\*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

#### 7.2.6 Test Results

#### Spurious Emission below 30MHz (9KHz to 30MHz)

	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model No.:	EF-EVAC-11K5-DIY
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3/Mode4	Test By:	Allen Liu

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

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Spurious Emission below 1GHz (30MHz to 1GHz) 

All the modulation modes have been tested, and the worst result was report as below:

EUT:	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model Name :	EF-EVAC-11K5-DIY
Temperature:	25.1 °C	Relative Humidity:	50%
Pressure:	1010hPa	Test Mode:	Mode 2 1Mbps
Test Voltage :	AC 120V/60Hz		

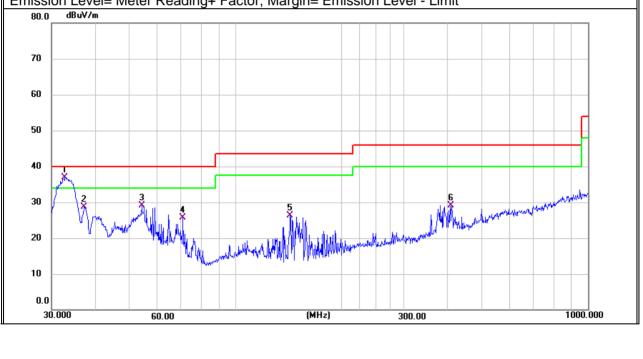
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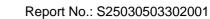
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.7490	19.32	17.59	36.91	40.00	-3.09	QP
V	37.1550	11.13	17.66	28.79	40.00	-11.21	QP
V	54.0710	9.47	19.58	29.05	40.00	-10.95	QP
V	70.8320	9.60	16.14	25.74	40.00	-14.26	QP
V	142.8240	12.26	14.06	26.32	43.50	-17.18	QP
V	410.3820	6.97	22.23	29.20	46.00	-16.80	QP

**Remark:** 

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit







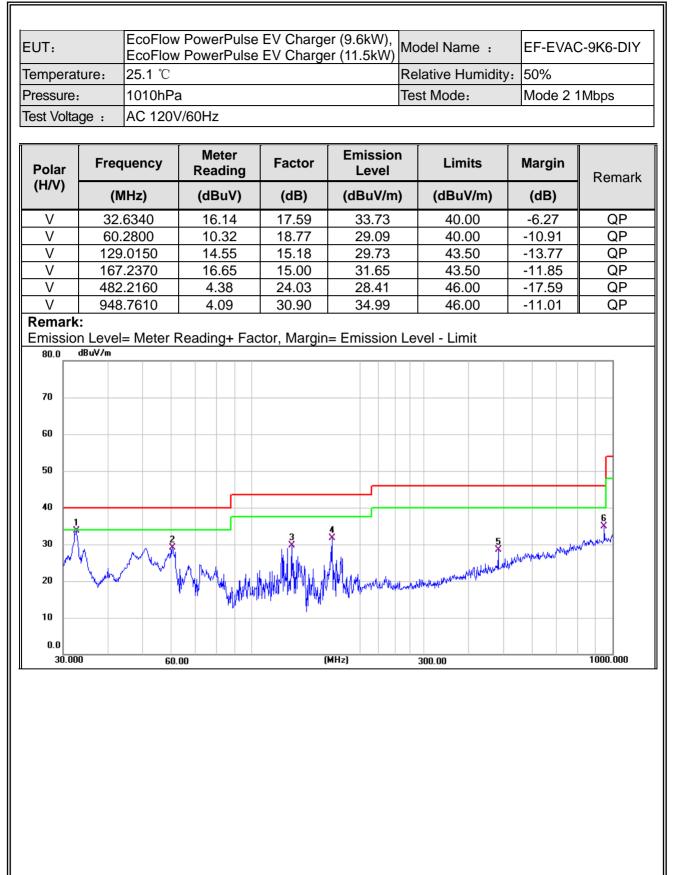
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	32.6340 3.52		17.59	21.11	40.00	-18.89	QP
Н	54.6430	1.77	19.71	21.48	40.00	-18.52	QP
Н	142.8240	13.01	14.06	27.07	43.50	-16.43	QP
Н	248.5520	4.66	19.00	23.66	46.00	-22.34	QP
Н	399.0300	4.96	22.10	27.06	46.00	-18.94	QP
Н	438.6550	4.59	23.13	27.72	46.00	-18.28	QP
Remark				<b>-</b>			
EMISSIO	n Level= Meter   dBuV/m	Reading+ Fac	ctor, Margin	= Emission Le	vel - Limit		
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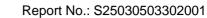
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Polar	Free	Frequency		Frequency		Frequency		Mete eadi		Factor		nissio _evel	n	Limi	ts	M	argin	F	Remar
(H/V)	(N	/IHz)	(	dBu\	/)	(dB)	(dl	(dBuV/m)		(dBu\	//m)	(	dB)	1.	toman				
Н	50	.0570		3.48	5	19.53	2	23.01		40.0	)0	-1	6.99		QP				
Н	80	.6440		10.3	)	14.31		24.61		40.0	)0	-1	5.39		QP				
Н	130	.3790		15.8	3	14.92	3	30.75		43.5	50	-1	2.75		QP				
Н		6.8880		12.4		15.95		28.40		43.5			5.10		QP				
Н		.6100		1.02		26.72		27.74		46.0			8.26		QP				
H Remar		8.7610		2.20		30.90		33.10		46.0	00	-1	2.90		QP				
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UT:			Pulse EV Pulse EV	0	· /·	Model No.	:	EF-EVAC	C-11K5-DIY
emperature:	rature: 20 °C					Relative H	umidity:	48%	
est Mode:	Mode2/M	lode3/M	ode4			Test By:		Allen Liu	
						-			
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
			Low Cha	nnel (2402	MHz)(GFSI	<)Above 10	6		
4804.338	63.07	5.21	35.59	44.30	59.57	74.00	-14.43	Pk	Vertical
4804.338	53.46	5.21	35.59	44.30	49.96	54.00	-4.04	AV	Vertical
7206.107	61.16	6.48	36.27	44.60	59.31	74.00	-14.69	Pk	Vertical
7206.107	40.61	6.48	36.27	44.60	38.76	54.00	-15.24	AV	Vertical
4804.169	64.51	5.21	35.55	44.30	60.97	74.00	-13.03	Pk	Horizontal
4804.169	42.51	5.21	35.55	44.30	38.97	54.00	-15.03	AV	Horizontal
7206.214	61.14	6.48	36.27	44.52	59.37	74.00	-14.63	Pk	Horizontal
7206.214	42.21	6.48	36.27	44.52	40.44	54.00	-13.56	AV	Horizontal
			Mid Cha	nnel (2440	MHz)(GFSk	K)Above 1G	; ;		
4880.473	62.65	5.21	35.66	44.20	59.32	74.00	-14.68	Pk	Vertical
4880.473	54.60	5.21	35.66	44.20	51.27	54.00	-2.73	AV	Vertical
7320.265	65.61	7.10	36.50	44.43	64.78	74.00	-9.22	Pk	Vertical
7320.265	42.07	7.10	36.50	44.43	41.24	54.00	-12.76	AV	Vertical
4880.366	62.59	5.21	35.66	44.20	59.26	74.00	-14.74	Pk	Horizontal
4880.366	40.18	5.21	35.66	44.20	36.85	54.00	-17.15	AV	Horizontal
7320.234	59.85	7.10	36.50	44.43	59.02	74.00	-14.98	Pk	Horizontal
7320.234	43.35	7.10	36.50	44.43	42.52	54.00	-11.48	AV	Horizontal
			High Cha	nnel (2480	MHz)(GFS	<) Above 10	G		
4960.482	63.65	5.21	35.52	44.21	60.17	74.00	-13.83	Pk	Vertical
4960.482	53.54	5.21	35.52	44.21	50.06	54.00	-3.94	AV	Vertical
7440.131	64.90	7.10	36.53	44.60	63.93	74.00	-10.07	Pk	Vertical
7440.131	49.98	7.10	36.53	44.60	49.01	54.00	-4.99	AV	Vertical
4960.326	63.23	5.21	35.52	44.21	59.75	74.00	-14.25	Pk	Horizontal
4960.326	44.85	5.21	35.52	44.21	41.37	54.00	-12.63	AV	Horizontal
7440.199	63.93	7.10	36.53	44.60	62.96	74.00	-11.04	Pk	Horizontal
7440.199	44.25	7.10	36.53	44.60	43.28	54.00	-10.72	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst

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#### Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model No.:	EF-EVAC-11K5-DIY
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Allen Liu

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
Low Channel (2402 MHz)(GFSK)									
2310	73.50	2.97	27.8	43.8	60.47	74	-13.53	Pk	Horizontal
2310	54.12	2.97	27.8	43.8	41.09	54	-12.91	AV	Horizontal
2310	72.47	2.97	27.8	43.8	59.44	74	-14.56	Pk	Vertical
2310	52.04	2.97	27.8	43.8	39.01	54	-14.99	AV	Vertical
2390	73.02	3.14	27.21	43.8	59.57	74	-14.43	Pk	Vertical
2390	53.29	3.14	27.21	43.8	39.84	54	-14.16	AV	Vertical
2390	73.79	3.14	27.21	43.8	60.34	74	-13.66	Pk	Horizontal
2390	51.78	3.14	27.21	43.8	38.33	54	-15.67	AV	Horizontal
			High	Channel (2	2480 MHz)(	GFSK)			
2483.5	71.73	3.58	27.7	44	59.01	74	-14.99	Pk	Vertical
2483.5	62.24	3.58	27.7	44	49.52	54	-4.48	AV	Vertical
2483.5	75.34	3.58	27.7	44	62.62	74	-11.38	Pk	Horizontal
2483.5	60.50	3.58	27.7	44	47.78	54	-6.22	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst



Spurious	Spurious Emission in Restricted Band 3260MHz-18000MHz					
EUT:	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model No.:	EF-EVAC-11K5-DIY			
Temperature:	20 °C	Relative Humidity:	48%			
Test Mode:	Mode2/ Mode4	Test By:	Allen Liu			

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
	Low Channel (2402 MHz)(GFSK)								
3260	64.51	4.04	29.57	44.7	53.42	74	-20.58	Pk	Vertical
3260	57.02	4.04	29.57	44.7	45.93	54	-8.07	AV	Vertical
3260	66.31	4.04	29.57	44.7	55.22	74	-18.78	Pk	Horizontal
3260	58.49	4.04	29.57	44.7	47.40	54	-6.60	AV	Horizontal
17797	45.90	10.99	43.95	43.5	57.34	74	-16.66	Pk	Vertical
17797	35.03	10.99	43.95	43.5	46.47	54	-7.53	AV	Vertical
			High	Channel (2	2480 MHz)(	(GFSK)			
3332	66.15	4.26	29.87	44.4	55.88	74	-18.12	Pk	Vertical
3332	58.02	4.26	29.87	44.4	47.75	54	-6.25	AV	Vertical
3332	65.78	4.26	29.87	44.4	55.51	74	-18.49	Pk	Horizontal
3332	51.63	4.26	29.87	44.4	41.36	54	-12.64	AV	Horizontal
17788	45.34	11.81	43.69	44.6	56.24	74	-17.76	Pk	Horizontal
17788	36.00	11.81	43.69	44.6	46.90	54	-7.10	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst



#### 7.3 6DB BANDWIDTH

#### 7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

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#### 7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

#### 7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq$  3\*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 7.3.6 Test Results

	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model No.:	EF-EVAC-11K5-DIY
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.





#### 7.4 DUTY CYCLE

#### 7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

#### 7.4.2 Conformance Limit

No limit requirement.

#### 7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW  $\geq$  OBW if possible; otherwise, set RBW to the largest available value. Set VBW  $\geq$  RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T  $\leq$  16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if  $T \le 6.25$  microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz ( $\geq$  RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T<sub>total</sub> and T<sub>on</sub> Calculate Duty Cycle = T<sub>on</sub> / T<sub>total</sub>





#### 7.4.6 Test Results

	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model No.:	EF-EVAC-11K5-DIY
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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Test data reference attachment.



#### 7.5 PEAK OUTPUT POWER

#### 7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

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#### 7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

#### 7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW  $\geq$  DTS bandwidth. Set VBW =3\*RBW. Set the span  $\geq$  3\*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

#### 7.5.6 Test Results

EUT:	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model No.:	EF-EVAC-11K5-DIY
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.



#### 7.6 POWER SPECTRAL DENSITY

#### 7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

#### 7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### 7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5\*DTS bandwidth.
- c) Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW  $\geq$  3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



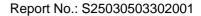


#### 7.6.6 Test Results

	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model No.:	EF-EVAC-11K5-DIY
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.





#### 7.7 CONDUCTED BAND EDGE MEASUREMENT

#### 7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

#### 7.7.2 Conformance 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

#### 7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

#### 7.7.6 Test Results

	EcoFlow PowerPulse EV Charger (9.6kW), EcoFlow PowerPulse EV Charger (11.5kW)	Model No.:	EF-EVAC-11K5-DIY
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Allen Liu

Test data reference attachment.





### 7.8 SPURIOUS RF CONDUCTED EMISSIONS

### 7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

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### 7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

### 7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

#### 7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

Test data reference attachment.





### 7.9 ANTENNA APPLICATION

### 7.9.1 Antenna Requirement

15.203 requirement: 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.

### 7.9.2 Result

The EUT antenna is permanent attached FPC antenna (Gain: 5.05 dBi). It comply with the standard requirement.





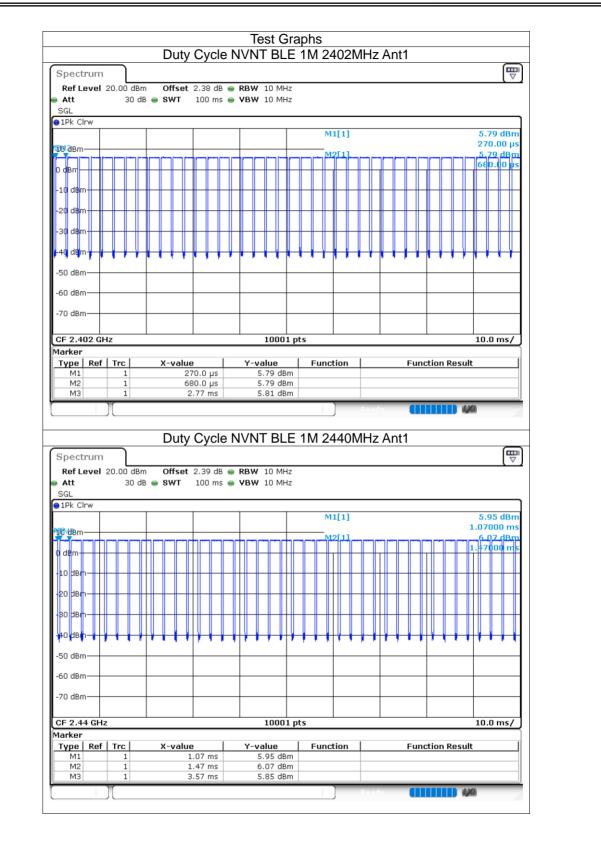
# 8 TEST RESULTS

### 8.1 **1M:**

## 8.1.1 Duty Cycle

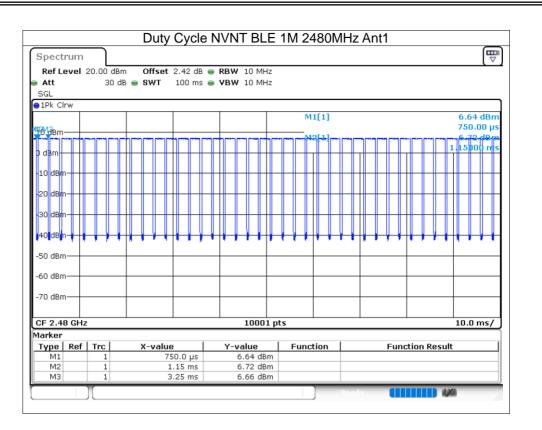
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	84	0.76	0.48
NVNT	BLE 1M	2440	Ant1	84.4	0.74	0.48
NVNT	BLE 1M	2480	Ant1	84.4	0.74	0.48





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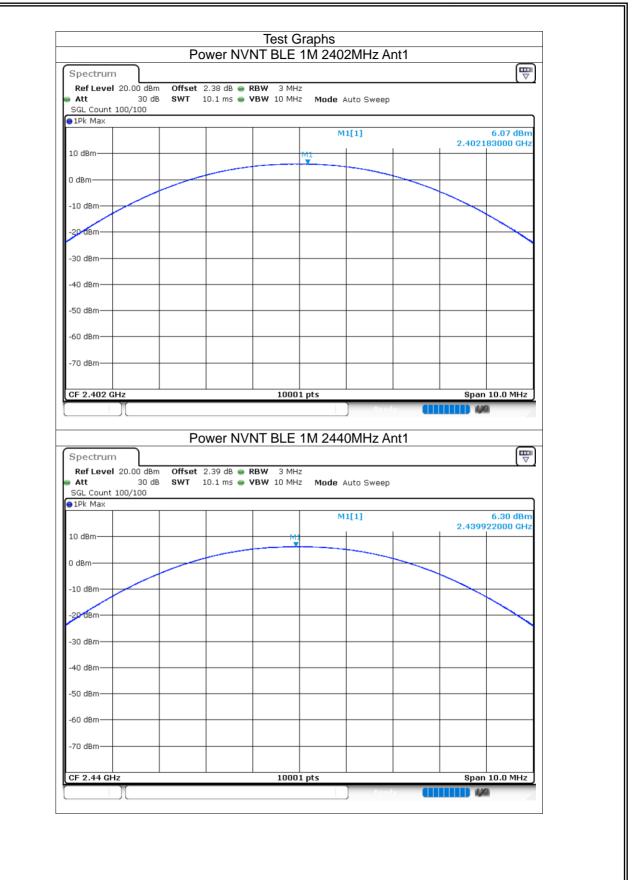


# 8.1.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	6.07	30	Pass
NVNT	BLE 1M	2440	Ant1	6.3	30	Pass
NVNT	BLE 1M	2480	Ant1	7.06	30	Pass

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	Power N	IVNT BLE 1M	2480MHz Ant1	
Spectrum				
Ref Level 20.00 dBm		🔵 RBW 3 MHz		
Att 30 de	3 SWT 10.1 ms	🖶 VBW 10 MHz 🛛 N	1ode Auto Sweep	
SGL Count 100/100 1Pk Max				
TEK MAX			M1[1]	7.06 dBm
			wiftl	2.479848000 GHz
10 dBm		M1		
D dBm				
-10 dBm				
-28 dBm				
-30 dBm				
-40 dBm				
-50 dBm				
-60 dBm				
-70 dBm				<u> </u>
CF 2.48 GHz		10001 pts		Span 10.0 MHz

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### 8.1.3 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.65	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.64	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.656	0.5	Pass





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		CLE Banan	idth NVNT BL	00		Ē
Spectrum						
Ref Level 2	20.00 dB		🖷 RBW 100 kHz			
Att	30 0	dB <b>SWT</b> 18.9 μs	🔵 <b>VBW</b> 300 kHz	Mode Auto FFT		
GGL Count 10	00/100					
1Pk Max						
				M1[1]		5.42 dBm
0 dBm			M1			2.479746030 GHz
5 abiii				M2[1]		-0.56 dBm
dBm		M2		M3		2.479658000 GHz
20 dBm						
30 dBm-	/					
10 dBm						
50 dBm					_	
i0 dBm					_	
70 dBm						
F 2.48 GHz			10001 pt	<u> </u>		Span 2.0 MHz
arker			10001 Pt	-		
Type   Ref	Trc	X-value	Y-value	Function	Func	tion Result
M1	1	2.47974603 GHz	5.42 dBm		. 4110	
M2	1	2.479658 GHz	-0.56 dBm			
M3	1	2.480314 GHz	-0.54 dBm			

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## 8.1.4 Occupied Channel Bandwidth

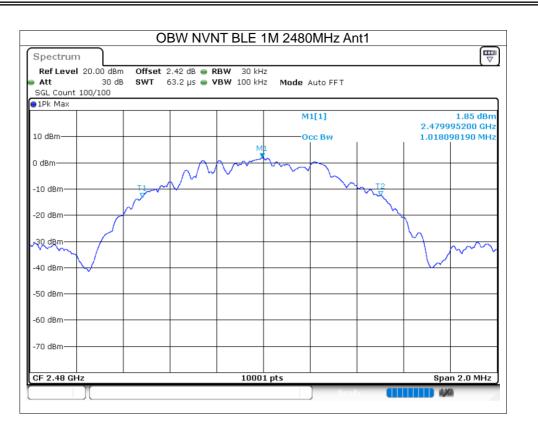
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.021
NVNT	BLE 1M	2440	Ant1	1.02
NVNT	BLE 1M	2480	Ant1	1.018





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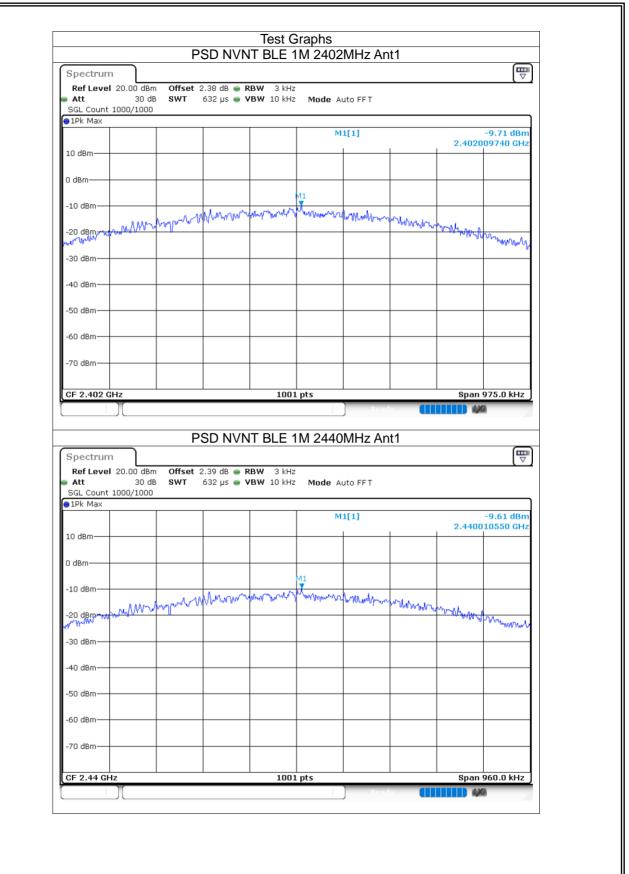


# 8.1.5 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-9.71	8	Pass
NVNT	BLE 1M	2440	Ant1	-9.61	8	Pass
NVNT	BLE 1M	2480	Ant1	-8.77	8	Pass

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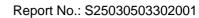
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F3D1	NVNT BLE 1M 2480MHz Ant1	
Spectrum		
Ref Level 20.00 dBm Offset 2.42	_	
	µs 🖶 VBW 10 kHz 🛛 Mode Auto FFT	
SGL Count 1000/1000 1Pk Max		
	M1[1]	-8.77 dBm
		2.480010810 GHz
10 dBm		
D dBm		
	M1	
-10 dBm	and many marked the man and and and and and and and and and a	
- Marken and and and	and the second stability of th	Mup make in a
-20 dBm	an marked and a state of the second sec	- manual and a second and a sec
-30 dBm		
-40 dBm		
-40 dBm		
-50 dBm		
-30 dbin		
-60 dBm		
-70 dBm		
CF 2.48 GHz	1001 pts	Span 984.0 kHz
JE 2.40 GEZ	1001 hrs	ahan ao4.0 KHS

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# 8.1.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-65.23	-20	Pass
NVNT	BLE 1M	2480	Ant1	-63.14	-20	Pass

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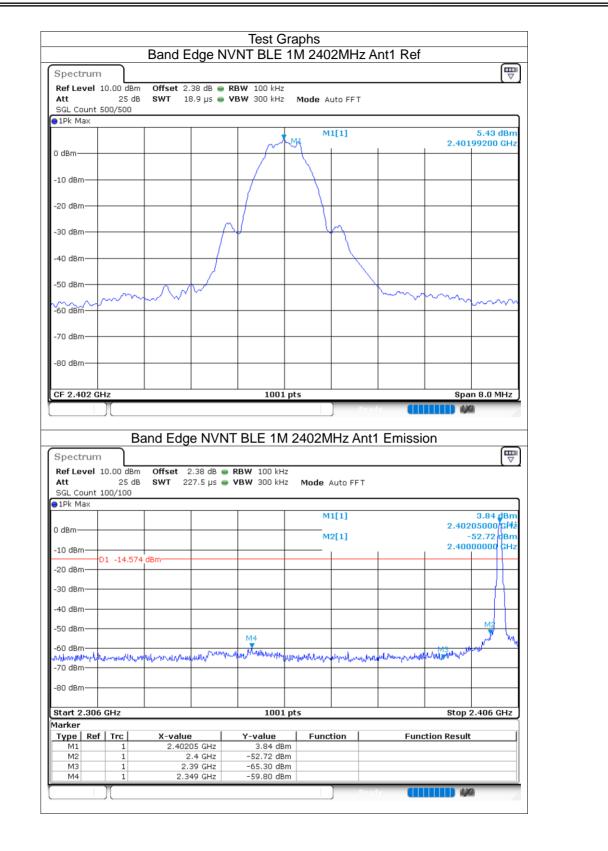


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#### Report No.: S25030503302001





Spectrum									
Ref Level 1				3W 100 kHz					
Att		SWT 18	8.9 µs 👄 Vi	300 kHz	Mode A	uto FFT			
SGL Count 1 1Pk Max	.00/100								l
TER MIGA					M	1[1]			6.12 dBm
				~	₩4 "	1[1]		2.479	99200 GHz
0 dBm					<u> </u>				
					- X-				
-10 dBm									
-20 dBm				1					
				/	\				
-30 dBm			-			Μ			
-40 dBm									
-50 dBm			$\rightarrow$						
	, norm	$\sim$	$\checkmark$			~~~	m	han	
-60 dBm	$\bigvee$ (	~						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim\sim$
-70 dBm									
-80 dBm									
CF 2.48 GHz				1001	nte			0	n 8.0 MHz
	)[	nd Edge	e NVNT	BLE 1M		) Poor 1Hz Ant1	Emissi		
Spectrum Ref Level 1	) Ba	Offset 2	.42 dB 👄 R	BLE 1M	2480N		Emissi		
Spectrum Ref Level 1 Att SGL Count 1	Ba .0.00 dBm 25 dB	Offset 2	.42 dB 👄 R	BLE 1M	2480N		Emissi		
Spectrum Ref Level 1 Att SGL Count 1 1Pk Max	Ba .0.00 dBm 25 dB	Offset 2	.42 dB 👄 R	BLE 1M	2480N 2 Mode /	Auto FFT	Emissi		
Spectrum Ref Level 1 Att SGL Count 1 1Pk Max	Ba .0.00 dBm 25 dB	Offset 2	.42 dB 👄 R	BLE 1M	2480N 2 Mode /		Emissi	on	
Spectrum Ref Level 1 Att SGL Count 1 1Pk Max	Ba .0.00 dBm 25 dB	Offset 2	.42 dB 👄 R	BLE 1M	2 2480W	Auto FFT	Emissi	2.479	6.63 dBm 95000 GHz 58.69 dBm
Spectrum Ref Level 1 Att SGL Count 1 IPk Max M1 0 d&m -10 dBm	Ba .0.00 dBm 25 dB .00/100	Offset 2 SWT 22	.42 dB 👄 R	BLE 1M	2 2480W	Auto FFT 1[1]	Emissi	2.479	€.63 dBm 95000 GHz
Spectrum Ref Level 1 Att SGL Count 1 JIPk Max M1 0 dBm -10 dBm D	Ba .0.00 dBm 25 dB	Offset 2 SWT 22	.42 dB 👄 R	BLE 1M	2 2480W	Auto FFT 1[1]	Emissi	2.479	6.63 dBm 95000 GHz 58.69 dBm
Spectrum Ref Level 1 Att SGL Count 1 IPk Max M1 0 d&m -10 dBm	Ba .0.00 dBm 25 dB .00/100	Offset 2 SWT 22	.42 dB 👄 R	BLE 1M	2 2480W	Auto FFT 1[1]	Emissi	2.479	6.63 dBm 95000 GHz 58.69 dBm
Spectrum Ref Level 1 Att SGL Count 1 1Pk Max M1 0 dBm -10 cBm -20 cBm	Ba .0.00 dBm 25 dB .00/100	Offset 2 SWT 22	.42 dB 👄 R	BLE 1M	2 2480W	Auto FFT 1[1]	Emissi	2.479	6.63 dBm 95000 GHz 58.69 dBm
Spectrum Ref Level 1 Att SGL Count 1 IPk Max M1 0 dBm -10 cBm -20 cBm -30 dBm	Ba .0.00 dBm 25 dB .00/100	Offset 2 SWT 22	.42 dB 👄 R	BLE 1M	2 2480W	Auto FFT 1[1]	Emissi	2.479	6.63 dBm 95000 GHz 58.69 dBm
Spectrum Ref Level 1 Att SGL Count 1 PIPk Max M1 0 dBm -10 dBm -20 dBm -40 dBm	Ba .0.00 dBm 25 dB .00/100	Offset 2 SWT 22	.42 dB 👄 R	BLE 1M	2 2480W	Auto FFT 1[1]	Emissi	2.479	6.63 dBm 95000 GHz 58.69 dBm
Spectrum Ref Level 1 Att SGL Count 1 PIPk Max M1 0 dBm -10 dBm -20 dBm -40 dBm	Ba .0.00 dBm 25 dB .00/100	Offset 2 SWT 22	.42 dB 👄 R	BLE 1M	2 Mode /	Auto FFT 1[1]	Emissi	2.479	6.63 dBm 95000 GHz 58.69 dBm
Spectrum Ref Level 1 Att SGL Count 1 IPk Max 0 dBm -10 cBm -20 cBm -30 dBm -40 dBm -50 dBm	Ba 0.000 dBm 25 dB 00/100	Offset 2 SWT 22	.42 dB ● R	BLE 1M	1 2480N 2 Mode / M	Auto FFT  1[1] 2[1]	Emissi	2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz
Spectrum Ref Level 1 Att SGL Count 1 IPk Max 0 dBm -10 cBm -20 cBm -30 dBm -40 dBm -50 dBm	Ba .0.00 dBm 25 dB .00/100	Offset 2 SWT 22	.42 dB ● R	BLE 1M	1 2480N 2 Mode / M	Auto FFT  1[1] 2[1]		2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz
Spectrum Ref Level 1 Att SGL Count 1 IPk Max 0 dBm -10 cBm -20 cBm -30 dBm -40 dBm -50 dBm	Ba 0.000 dBm 25 dB 00/100	Offset 2 SWT 22	.42 dB ● R	BLE 1M	1 2480N 2 Mode / M	Auto FFT  1[1] 2[1]		2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm
Spectrum Ref Level 1 Att SGL Count 1 IPK Max 0 dBm -10 dBm -20 dBm -20 dBm -50 dBm -50 dBm -70 dBm	Ba 0.000 dBm 25 dB 00/100	Offset 2 SWT 22	.42 dB ● R	BLE 1M	1 2480N 2 Mode / M	Auto FFT  1[1] 2[1]		2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz
Spectrum Ref Level 1 Att SGL Count 1 IPK Max 0 d8m -10 d8m -20 d8m -20 d8m -50 d8m -50 d8m -70 d8m	Ba 0.000 dBm 25 dB 00/100	Offset 2 SWT 22	.42 dB ● R	BLE 1M	1 2480N 2 Mode / M	Auto FFT  1[1] 2[1]		2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz
Spectrum Ref Level 1 Att SGL Count 1 IPk Max 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm -70 dBm -70 dBm -80 dBm	Ba 0.000 dBm 25 dB 00/100	Offset 2 SWT 22	.42 dB ● R	BLE 1M	2 Mode / Mode / M	Auto FFT  1[1] 2[1]		2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz
Spectrum Ref Level 1 Att SGL Count 1 IPk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm	Ba 0.000 dBm 25 dB 00/100	Offset 2 SWT 22	.42 dB ● R	BLE 1M	2 Mode / Mode / M	Auto FFT  1[1] 2[1]		2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz
Spectrum Ref Level 1 SGL Count 1 PIPk Max 1 Pk Max 1 Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm	Ba 0.00 dBm 25 dB 00/100	Offset 2 SWT 22	.42 dB <b>• R</b> 7.5 μs <b>• ν</b>	BLE 1M	2 Mode / Mode / M	Auto FFT  1[1]  2[1]	Sunday was a start of the	2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz
Spectrum Ref Level 1 Att SGL Count 1 1Pk Max 0 d8m -10 d8m -20 d8m -30 d8m -30 d8m -40 d8m -50 d8m -70 d8m -70 d8m -70 d8m -70 d8m -80 d8m <b>Start 2.476</b> d <b>Marker</b> <b>Type Ref</b>	Ba 0.00 dBm 25 dB 00/100 1 -13.880 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Offset 2 SWT 22 dBm 	.42 dB	BLE 1M	2480N	Auto FFT  1[1]  2[1]	Sunday was a start of the	2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz
Spectrum           Ref Level 1           Att           SGL Count 1           IPk Max           0 d8m           -10 d8m           -20 d8m           -30 d8m           -40 d8m           -50 d8m           -60 d8m           -70 d8m           -80 d8m	Ba 0.00 dBm 25 dB 00/100 1 -13.880 6Hz GHz	Offset 2 SwT 22 dBm	.42 dB	BLE 1M	2 Mode / 2 Mode /  M  M  M  M 	Auto FFT  1[1]  2[1]	Sunday was a start of the	2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz
Spectrum Ref Level 1 Att SGL Count 1 PIPk Max D dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -60 dBm -50 dBm -70 dBm -70 dBm -70 dBm -80 dBm -80 dBm -70 dBm -70 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm -80 dBm -70 dBm -70 dBm -80 dBm	Ba 0.00 dBm 25 dB 00/100 1 -13.880 6Hz GHz	Offset 2 SWT 22 dBm dBm x-value 2.4799 2.4493 2.4493 2.4493	.42 dB	BLE 1M	2 Mode / 2 Mode / 4 Mode / 4 Mode / 4 Mode / 1 M	Auto FFT  1[1]  2[1]	Sunday was a start of the	2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz
Spectrum Ref Level 1 Att SGL Count 1 IPk Max 0 d8m -10 d8m -20 d8m -20 d8m -30 d8m -40 d8m -50 d8m -70 d8m -70 d8m -70 d8m -70 d8m -70 d8m -80 d8m -90 d8m	Ba 0.00 dBm 25 dB 00/100 1 -13.880 6Hz GHz	Offset 2 SWT 22 dBm dBm x-value 2.4799 2.4493 2.4493 2.4493	.42 dB	BLE 1M	2 Mode / 2 Mode / 4 Mode / 4 Mode / 4 Mode / 1 M	Auto FFT  1[1]  2[1]	Sunday was a start of the	2.479 2.483	6.63 dBm 95000 GHz 58.69 dBm 50000 GHz

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## 8.1.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.79	-20	Pass
NVNT	BLE 1M	2440	Ant1	-56.01	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.95	-20	Pass



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#### Report No.: S25030503302001





	20.00 dBm 30 dB 100/100		RBW 100 kHz VBW 300 kHz M	Iode Auto FFT		
1Pk Max		I		M1[1]		5.83 dBm
					2.43	99897000 GHz
10 dBm			M			
0 dBm				$\rightarrow$		
-10 dBm						
-20 dBm						
-30 dBm						
-40 dBm						
-50 dBm			+			
-60 dBm						
CO GDIN						
-70 dBm						
CF 2.44 GH	z		30001 pts			Span 1.5 MHz
Att SGL Count	20.00 dBm 30 dB 10/10		<b>VBW</b> 300 kHz N	lode Auto Sweep		
1Pk Max				M1[1]		
						0.47.48
_						3.47 dBm 2.440010 GHz
10 dBm - 10 m				M2[1]	1	2.440010 GHz -50.18 dBm
10 dBm- <u>M1</u> D dBm-					1	2.440010 GHz
10 dBm	D1 -14.166 c	18m				2.440010 GHz -50.18 dBm
10 dBm 0 dBm -10 dBm -20 dBm	D1 -14.166 c	18m				2.440010 GHz -50.18 dBm
10 dBm1 D dBm1 -10 dBm1 -20 dBm1 -30 dBm1	D1 -14.166 c	JBm				2.440010 GHz -50.18 dBm
10 dBm1 D dBm1 -10 dBm1 -20 dBm1 -30 dBm1	D1 -14.166 c	18m				2.440010 GHz -50.18 dBm
10 dBm - 10	D1 -14.166 c			M2[1]	4. A. Market A	2.440010 GHz -50.18 dBm
10 dBm - 10	D1 -14.166 c	IBm		M2[1]		2.440010 GHz -50.18 dBm
10 dBm- <u>m</u> 0 dBm	D1 -14.166 c	IBm		M2[1]	4. A. Market A	2.440010 GHz -50.18 dBm
10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -70 dBm	MS	JBm	30001 pts	M2[1]		2.440010 GHz -50.18 dBm
10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm Start 30.0 m Tarker	M3 MHz			M2[1]		2.440010 GHz -50.18 dBm 5.927000 GHz
10 dBm1 0 dBm1 -10 dBm1 -20 dBm1 -30 dBm1 -40 dBm1 -50 dBm1	M3 MHz	18m	30001 pts Y-value 3.47 dBm	M2[1]		2.440010 GHz -50.18 dBm 5.927000 GHz
10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm 50 dBm 50 dBm -70 dBm Start 30.0 ft larker Type Ref M1 M2	MHz 1 1	NH M NH M NH M NH M NH M NH NH NH NH NH NH NH NH NH NH	Y-value 3.47 dBm -50.18 dBm	M2[1]		2.440010 GHz -50.18 dBm 5.927000 GHz
10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm 50 dBm	MHz 1	X-value 2.44001 GHz	Y-value 3.47 dBm	M2[1]		2.440010 GHz -50.18 dBm 5.927000 GHz

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Spectrum Ref Level Att SGL Count	20.00 dBm 30 dB 100/100		2 dB 👄 RBW : 9 µs 👄 VBW :		Iode Auto FFT			
1Pk Max		1	1	1				
					M1[1]		2.47999	6.73 dBm 019500 GHz
10 dBm				M		+ 1		
0 40			$\sim$	~~~~	$\sim$			
0 dBm	_							
-10 dBm								
-20 dBm								
-30 dBm								
SO UDIN								
-40 dBm								
-50 dBm								
-60 dBm								<b></b>
-70 dBm								┼───┨│
1						_	0	- 1 F MIL-
CF 2.48 GH	)[ 		NVNT BL	30001 pts E 1M 24	180MHz An	t1 Emissi	<b>W</b>	In 1.5 MHz )
Spectrum	Tx. 20.00 dBm 30 dB	Offset 2.4	2 dB 🖷 RBW :	.E 1M 24	480MHz An		<b>W</b>	
Spectrum Ref Level Att	Tx. 20.00 dBm 30 dB	Offset 2.4	2 dB 🖷 RBW :	.E 1M 24	lode Auto Sweej		<b>W</b>	
Spectrum Ref Level Att SGL Count 1Pk Max	Tx. 20.00 dBm 30 dB	Offset 2.4	2 dB 🖷 RBW :	.E 1M 24	Node Auto Swee		ion	
Spectrum Ref Level Att SGL Count 1Pk Max	Tx. 20.00 dBm 30 dB	Offset 2.4	2 dB 🖷 RBW :	.E 1M 24	lode Auto Sweej		ion 2.4	4.90 dBm 179720 GHz 50.23 dBm
Spectrum Ref Level SGL Count IPk Max 10 dBm	Tx. 20.00 dBm 30 dB	Offset 2.4	2 dB 🖷 RBW :	.E 1M 24	Node Auto Swee		ion 2.4	€ 4.90 dBm 179720 GHz
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	Tx. 20.00 dBm 30 dB	Offset 2.4 SWT 263	2 dB 🖷 RBW :	.E 1M 24	Node Auto Swee		ion 2.4	4.90 dBm 179720 GHz 50.23 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm	Tx. 20.00 dBm 30 dE 10/10	Offset 2.4 SWT 263	2 dB 🖷 RBW :	.E 1M 24	Node Auto Swee		ion 2.4	4.90 dBm 179720 GHz 50.23 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	Tx. 20.00 dBm 30 dE 10/10	Offset 2.4 SWT 263	2 dB 🖷 RBW :	.E 1M 24	Node Auto Swee		ion 2.4	4.90 dBm 179720 GHz 50.23 dBm
Spectrum Ref Level Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm	Tx. 20.00 dBm 30 dE 10/10	Offset 2.4 SWT 263	2 dB 🖷 RBW :	.E 1M 24	Iode Auto Swee M1[1] M2[1] 		ion 2.4	4.90 dBm 179720 GHz 50.23 dBm
Spectrum Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -30 dBm	Tx. 20.00 dBm 30 dE 10/10	Offset 2.4 SWT 263	2 dB 🖷 RBW :	.E 1M 24	Node Auto Swee		ion 2.4	4.90 dBm 179720 GHz 50.23 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 20.00 dBm 30 dE 10/10	Offset 2.4 SWT 263	2 dB • RBW : 5 ms • VBW :	E 1M 24	M1[1] M2[1] M2[1] M2[1] M2 M2 M2 M2		ion 2.4	4.90 dBm 179720 GHz 50.23 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 20.00 dBm 30 dE 10/10	Offset 2.4 SWT 263	2 dB • RBW : 5 ms • VBW :	E 1M 24	M1[1] M2[1] M2[1] M2[1] M2 M2 M2 M2	p	ion 2.4	4.90 dBm 179720 GHz 50.23 dBm
Spectrum Ref Level Att SGL Count IPK Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Tx. 20.00 dBm 30 dE 10/10	0ffset 2.4 SWT 263	2 dB • RBW : 5 ms • VBW :	E 1M 24	M1[1] M2[1] M2[1] M2[1] M2 M2 M2 M2	p	2.4 16.5	4.90 dBm 179720 GHz 50.23 dBm
Spectrum Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Tx. 20.00 dBm 30 dE 10/10 D1 -13.268	dBm	2 dB      RBW : 5 ms      VBW :	E 1M 24	Iode         Auto Sweep           M1[1]	p	2 16.:	4.90 dBm 4.90 dBm 479720 GHz 50.23 dBm 266402 GHz 4.2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Spectrum Ref Level SGL Count SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 dBm -70 dBm Start 30.0	Tx. 20.00 dBm 30 dE 10/10 D1 -13.268	0ffset 2.4 SWT 263	2 dB      RBW : 5 ms      VBW :	E 1M 24	M1[1] M2[1] M2[1] M2[1] M2 M2 M2 M2	p	2.4 16.5	4.90 dBm 4.90 dBm 479720 GHz 50.23 dBm 266402 GHz 4.2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Spectrum Ref Level SGL Count IPk Max ID dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm	Tx. 20.00 dBm 30 dE 10/10 D1 -13.268 MHz MHz i Trc 1 1	dBm M1 X-value 2.47972 16.366402	2 dB      RBW : 5 ms      VBW : 5 ms	E 1M 24	Iode         Auto Sweep           M1[1]	p	2 16.:	4.90 dBm 4.90 dBm 479720 GHz 50.23 dBm 266402 GHz 4.2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Spectrum Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70	Tx. 20.00 dBm 30 dE 10/10 D1 -13.268 MHz MHz Trc 1 1 1 1	Contract 2.4 SWT 263 Contract 2.4 Contract 2	2 dB   RBW : 5 ms   VBW : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E 1M 24	Iode         Auto Sweep           M1[1]	p	2 16.:	4.90 dBm 4.90 dBm 479720 GHz 50.23 dBm 266402 GHz 4.2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Spectrum Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70	Tx. 20.00 dBr 30 dE 10/10 D1 -13.268 M4 MHz MHz Trc 1 1 1	Contract 2.4 SWT 263 dBm dBm dBm contract 2.4 dBm contract 2.4 contract 2.4 contrac	2 dB   RBW : 5 ms   VBW : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E 1M 24	Iode         Auto Sweep           M1[1]	p	2 16.:	4.90 dBm 4.90 dBm 479720 GHz 50.23 dBm 266402 GHz 4.2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

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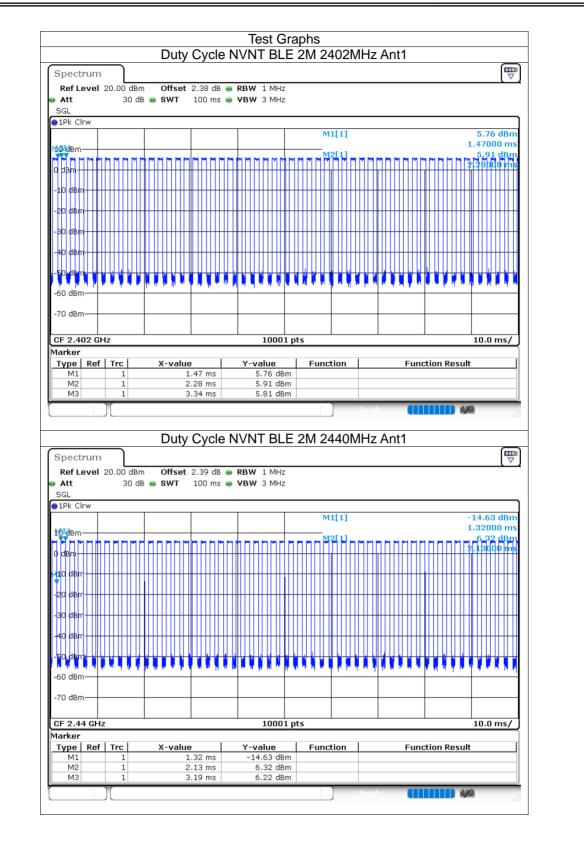
### 8.2 **2M**:

# 8.2.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 2M	2402	Ant1	56.93	2.45	0.94
NVNT	BLE 2M	2440	Ant1	57.35	2.41	0.94
NVNT	BLE 2M	2480	Ant1	57.03	2.44	0.93

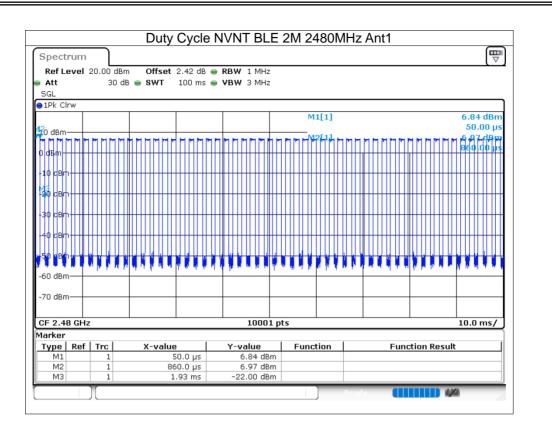
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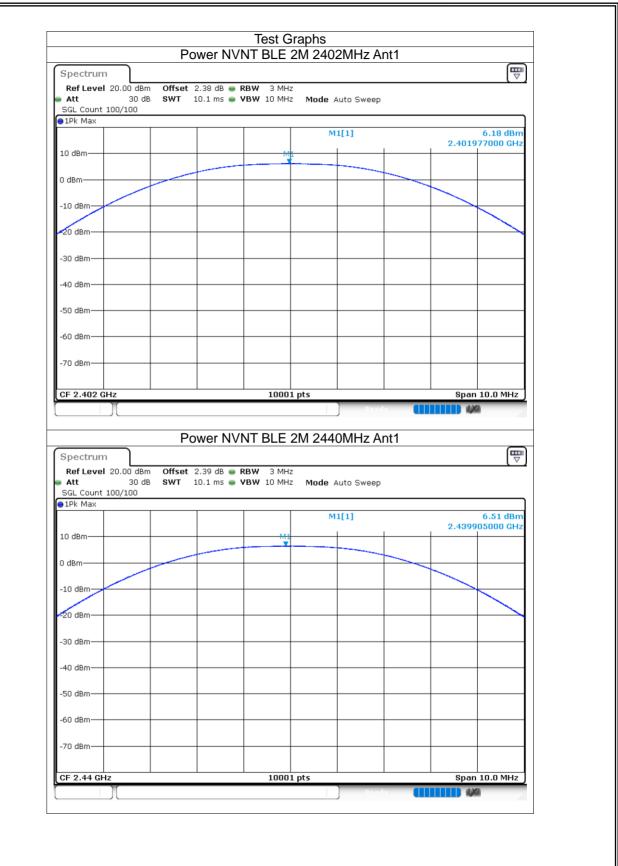


# 8.2.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	6.18	30	Pass
NVNT	BLE 2M	2440	Ant1	6.51	30	Pass
NVNT	BLE 2M	2480	Ant1	7.32	30	Pass

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	Power	NVNT BLE 2M	2480MHz Ant1	
Spectrum				
Ref Level 20.00 d Att 30 SGL Count 200/200	dB <b>SWT</b> 10.1 m	-	ode Auto Sweep	
1Pk Max				]
			M1[1]	7.32 dBm 2.479893000 GHz
10 dBm		M1		
) dBm				
-10 dBm				
20 dBm				
30 dBm				
-40 dBm				
-50 dBm				
-60 dBm				
70 dBm				
CF 2.48 GHz		10001 pts		Span 10.0 MHz
			Ready	

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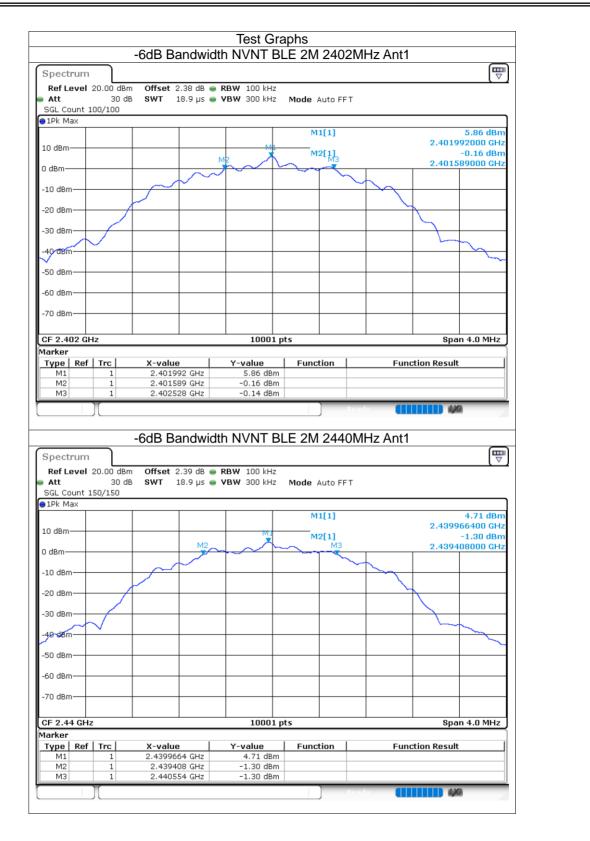




# 8.2.3 -6dB Bandwidth

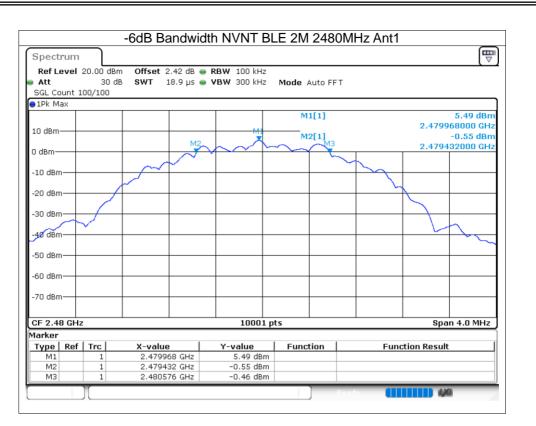
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	0.939	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.146	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.144	0.5	Pass





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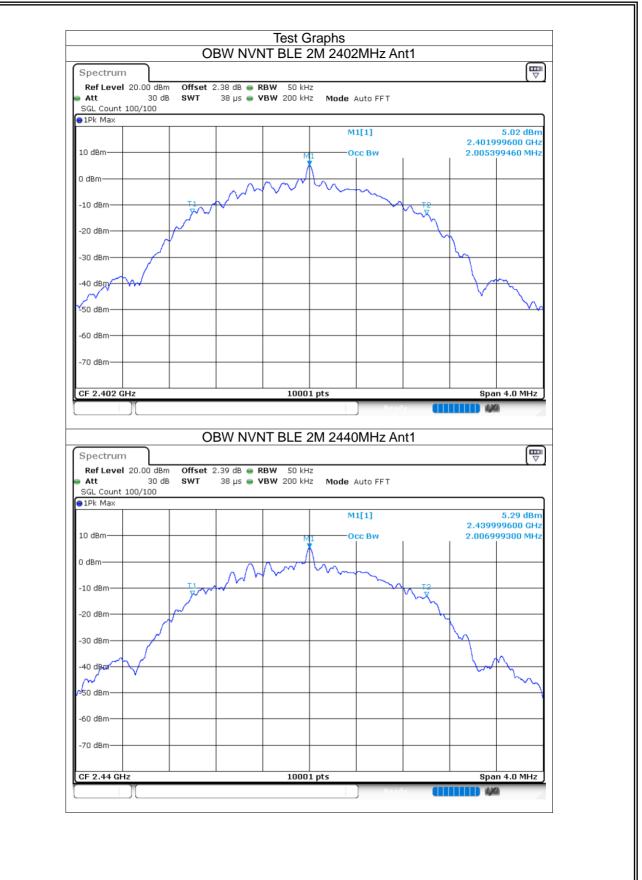




## 8.2.4 Occupied Channel Bandwidth

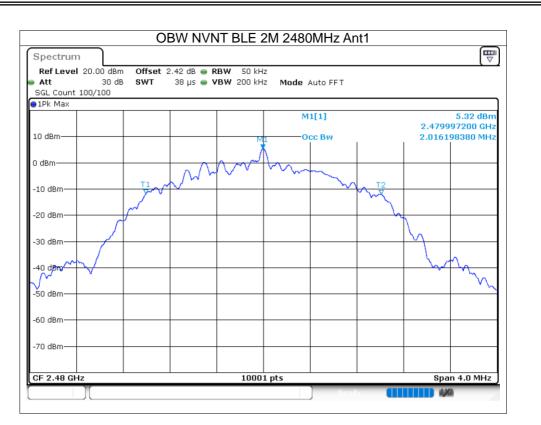
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.005
NVNT	BLE 2M	2440	Ant1	2.007
NVNT	BLE 2M	2480	Ant1	2.016





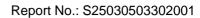
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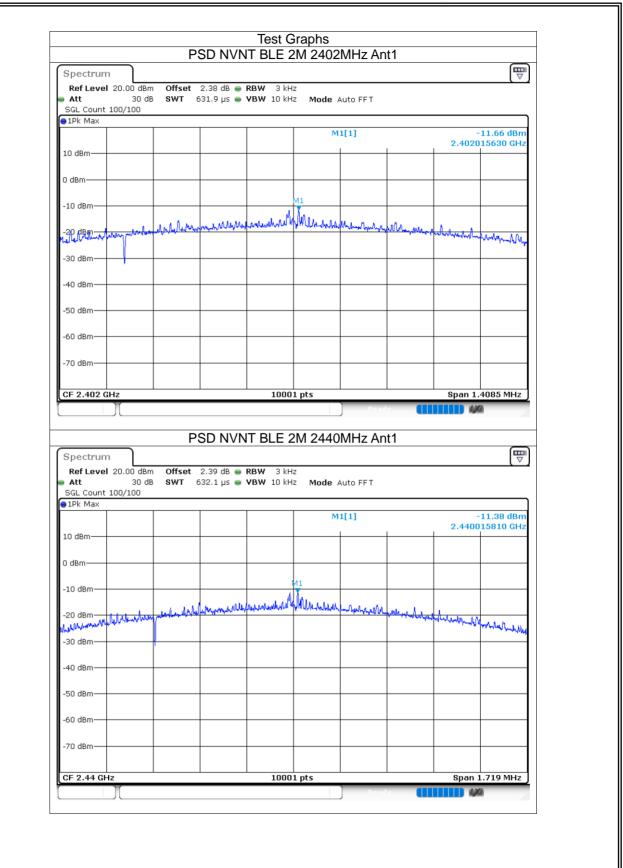


# 8.2.5 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-11.66	8	Pass
NVNT	BLE 2M	2440	Ant1	-11.38	8	Pass
NVNT	BLE 2M	2480	Ant1	-10.67	8	Pass

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	VNT BLE 2M 2480MHz Ant1	(m)
Spectrum		
Ref Level 20.00 dBm Offset 2.42 dB	_	
	VBW 10 kHz Mode Auto FFT	
SGL Count 100/100 IPk Max		
	M1[1]	-10.67 dBm
	milij	2.480015790 GHz
10 dBm		
D dBm		
-10 dBm		
	and a second of the second of the second of the second of the	
i i i i i i i i i i i i i i i i i i i	Torreshadowand and a second when the second states and the second s	. 1
-20 dBm		Balanger and and a stre
-20 dBm - Ultrate - Charles - Charle		Calledon and the hard and the
	alle presentation of MUnichald in Contraction	Balalynetholin NUm har helled
		hala hand have been and have been been been been been been been be
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-20 dBm		halalyeedyalaiteridy-Wyrralaanalde
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-30 dBm		halalyaa fiyaa hada hada hada hada hada hada hada h
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30 dBm		balakeentooliteentooliteentooliteetoonin takkee

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# 8.2.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-64.62	-20	Pass
NVNT	BLE 2M	2480	Ant1	-58.57	-20	Pass

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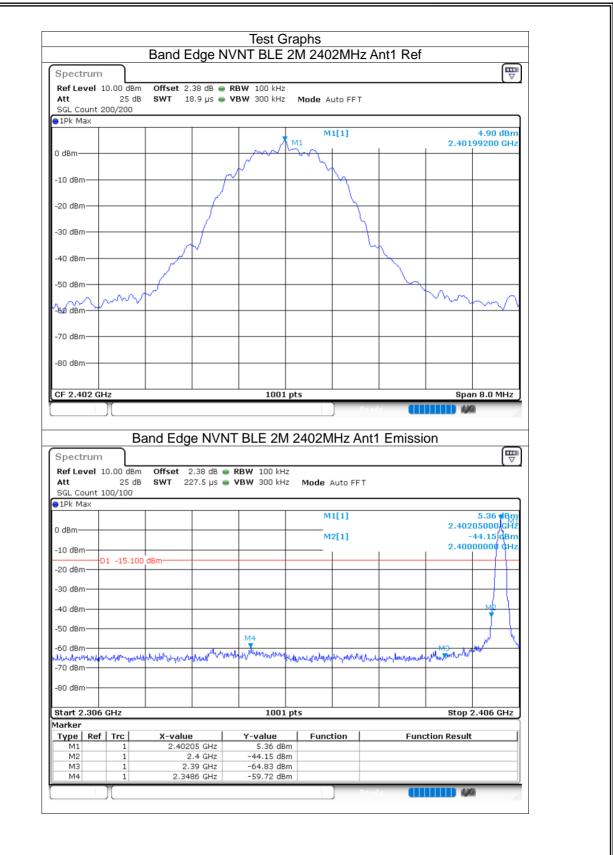


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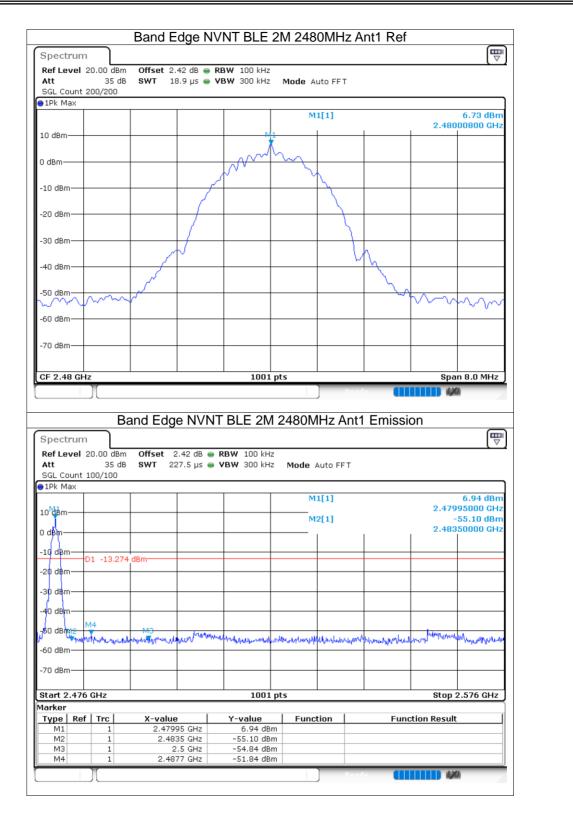
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Certificate #4298.01

#### Report No.: S25030503302001







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## 8.2.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-56	-20	Pass
NVNT	BLE 2M	2440	Ant1	-57.23	-20	Pass
NVNT	BLE 2M	2480	Ant1	-57.84	-20	Pass

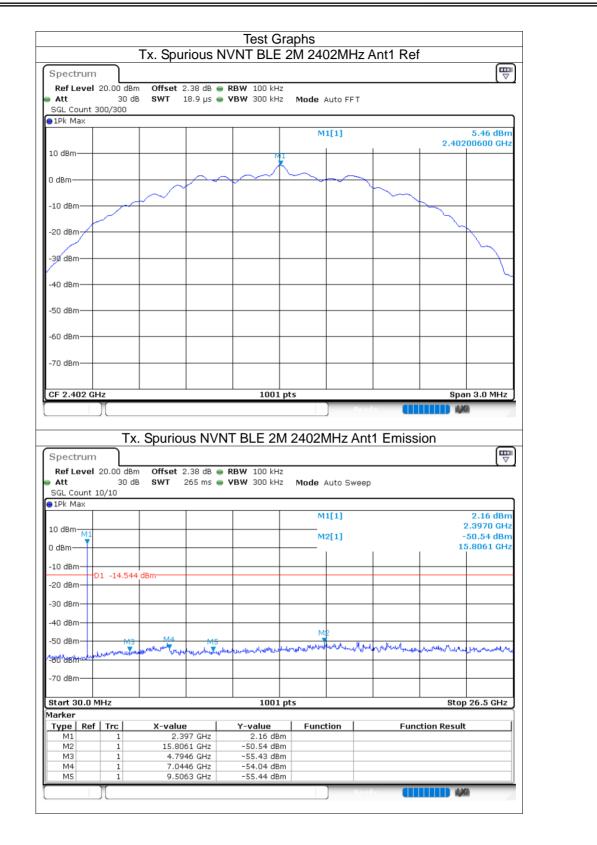


ilac-MR

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Certificate #4298.01

#### Report No.: S25030503302001

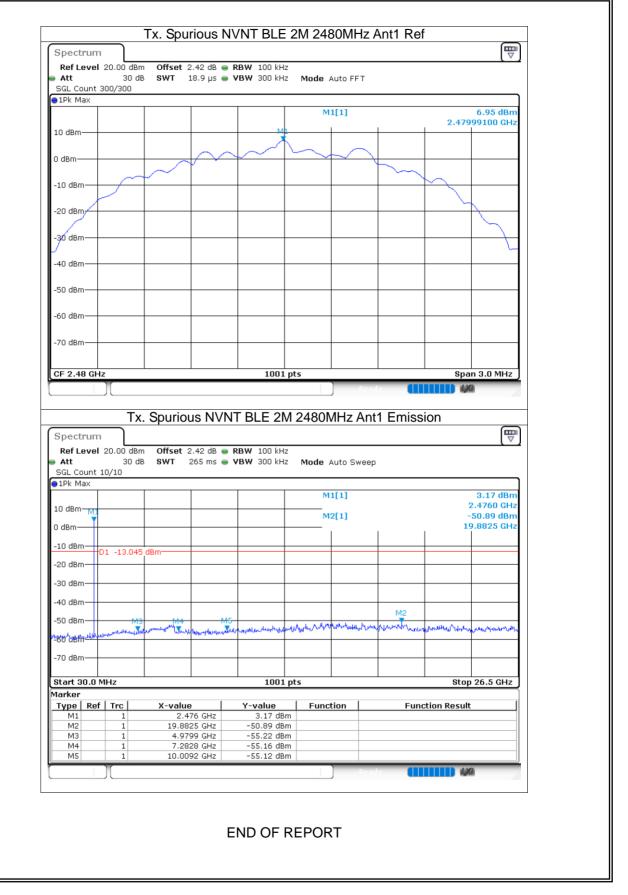




Spectrun	n ]								
	20.00 dB								
SGL Count	30 d 300/300	IB <b>SWT</b> 18.9	ups 🥌 VBW	300 kH	z Mode	Auto FFT			
1Pk Max	000,000								
					М	1[1]			6.11 dBm
10 dBm						1		2.439	99400 GHz
10 0011									
0 dBm				$\sim$	5	$\square$			
			×				1-		
-10 dBm—	~	¥—  -						<u> </u>	
-20 dBm									
-30 dBm									
-40 dBm									<u> </u>
-50 dBm		<u>                                     </u>							<b>├</b> ─── <b>┃</b> │
-60 dBm		+ +							
-70 dBm									
CF 2.44 GH	1-								
Spectrum	)[ кт	. Spurious			M 2440M	) Per MHz Ar	it1 Emiss		n 3.0 MHz )
Spectrum Ref Level Att	Tx 1 20.00 dBr 30 d	m Offset 2.39	dB 👄 RBW	BLE 21	VI 2440N				
Spectrum Ref Level Att SGL Count	Tx 1 20.00 dBr 30 d	m Offset 2.39	dB 👄 RBW	BLE 21	VI 2440N				
Spectrum Ref Level Att	Tx 1 20.00 dBr 30 d	m Offset 2.39	dB 👄 RBW	BLE 21	V 2440 <sup>z</sup> z Mode				
Spectrum Ref Level Att SGL Count 1Pk Max	Tx 1 20.00 dBr 30 d	m Offset 2.39	dB 👄 RBW	BLE 21	VI 2440N <sup>z</sup> Mode Mode	Auto Swee		ion	1.11 dBm 2.4500 GHz
Spectrum Ref Level Att SGL Count 1Pk Max	Tx 1 20.00 dBr 30 d	m Offset 2.39	dB 👄 RBW	BLE 21	VI 2440N <sup>z</sup> Mode Mode	Auto Swee		ion	
Spectrum Ref Level SGL Count IPk Max 10 dBm 10 dBm	Tx 1 20.00 dBr 30 d	m Offset 2.39	dB 👄 RBW	BLE 21	VI 2440N <sup>z</sup> Mode Mode	Auto Swee		ion	1.11 dBm 2.4500 GHz 51.12 dBm
Spectrum Ref Level Att SGL Count IPk Max 10 dBm M1 0 dBm -10 dBm	Tx 1 20.00 dBr 30 d	m Offset 2.39 IB SWT 265	dB 👄 RBW	BLE 21	VI 2440N <sup>z</sup> Mode Mode	Auto Swee		ion	1.11 dBm 2.4500 GHz 51.12 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm -10 dBm	T> T> 1 20.00 dB 30 d 10/10	m Offset 2.39 IB SWT 265	dB 👄 RBW	BLE 21	VI 2440N <sup>z</sup> Mode Mode	Auto Swee		ion	1.11 dBm 2.4500 GHz 51.12 dBm
Spectrum Ref Level Att SGL Count IPk Max 10 dBm M1 0 dBm -10 dBm	T> T> 1 20.00 dB 30 d 10/10	m Offset 2.39 IB SWT 265	dB 👄 RBW	BLE 21	VI 2440N <sup>z</sup> Mode Mode	Auto Swee		ion	1.11 dBm 2.4500 GHz 51.12 dBm
Spectrum Ref Level Att SGL Count IPk Max 10 dBm 10 dBm -10 dBm -20 dBm	T> T> 1 20.00 dB 30 d 10/10	m Offset 2.39 IB SWT 265	dB 👄 RBW	BLE 21	VI 2440N <sup>z</sup> Mode Mode	Auto Swee		ion	1.11 dBm 2.4500 GHz 51.12 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	T> T> 1 20.00 dB 30 d 10/10	m Offset 2.39 B SWT 265	dB 👄 RBW	BLE 21	M 2440N	Auto Swee	p	ion	1.11 dBm 2.4500 GHz 51.12 dBm
Spectrum Ref Level SGL Count SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm	T > 1 20.00 dBi 30 d 10/10 -D1 -13.88	m Offset 2.39 B SWT 265	dB RBW ms VBW	BLE 21	VI 2440N <sup>z</sup> Mode Mode	Auto Swee		ion	1.11 dBm 2.4500 GHz 51.12 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	T > 1 20.00 dBi 30 d 10/10 -D1 -13.88	m Offset 2.39 B SWT 265	dB RBW ms VBW	BLE 21	M 2440N	Auto Swee	p	ion	1.11 dBm 2.4500 GHz 51.12 dBm
Spectrum Ref Level SGL Count SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm	T > 1 20.00 dBi 30 d 10/10 -D1 -13.88	m Offset 2.39 B SWT 265	dB RBW ms VBW	BLE 21	M 2440N	Auto Swee	p	ion	1.11 dBm 2.4500 GHz 51.12 dBm
Spectrum Ref Level SGL Count IPk Max IO dBm IO dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm	D1 -13.88	m Offset 2.39 B SWT 265	dB RBW ms VBW	BLE 21	Z Mode Mode	Auto Swee	p	ion	
Spectrum Ref Level SGL Count SGL Count ID dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm	D1 -13.88	m Offset 2.39 B SWT 265	dB RBW ms VBW	BLE 21	Z Mode Mode	Auto Swee	p	ion	1.11 dBm 2.4500 GHz 51.12 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm Start 30.0 Varker Type Ref	D1 -13.88	m Offset 2.39 B SWT 265	dB RBW ms VBW	BLE 2M	۲ 2440N ۲ 2440N ۳ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲	Auto Swee	p	ion	
Spectrum Ref Level Att SGL Count ID dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm	D1 -13.880 MHz f Trc 1 1 Trc 1	m Offset 2.39 B SWT 265	dB RBW ms VBW	BLE 21 7 100 kH 7 300	VI 2440N	Auto Swee	p	ion :	
Spectrum Ref Level Att SGL Count SGL Count ID dBm 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 dBm	D1 -13.88 MHz f Trc 1 1 1 1 1 1 1	m Offset 2.39 B SWT 265	HS HZ HZ HZ HZ HZ HZ HZ	BLE 21 / 100 kH / 300 kH / 300 kH / 300 kH / 300 kH / 100 kH / 300 kH / 100 kH / 300 kH	VI 2440N	Auto Swee	p	ion :	
Spectrum Ref Level Att SGL Count 10 dBm 10 dBm 10 dBm 20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm -70 dBm Ref M1 M2 M3 M4	D1 -13.88 MHz f Trc 1 1 1 1	m Offset 2.39 B SWT 265 6 dBm 6 dBm 3 m 4 m 5 m 6 dBm 6 dBm 6 dBm 6 dBm 6 dBm 6 dBm 7 m 7 m 7 m 7 m 7 m 7 m 7 m 7 m 7 m 7	dB RBW ms VBW	BLE 21 7 100 kH 7 300	vi 2440 z Mode m m m m m	Auto Swee	p	ion :	
Spectrum Ref Level Att SGL Count SGL Count ID dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 dBm -7	D1 -13.88 MHz f Trc 1 1 1 1 1 1 1	m Offset 2.39 B SWT 265	dB RBW ms VBW	BLE 21 / 100 kH / 300 kH / 300 kH / 300 kH / 300 kH / 100 kH / 300 kH / 100 kH / 300 kH / 100 kH / 300 kH	vi 2440 z Mode m m m m m	Auto Swee	p	ion :	

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