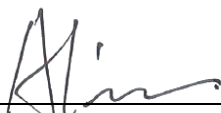


FCC RADIO TEST REPORT

Applicant..... : Dongguan Xinhailin New Energy Technology Co., Ltd.
Address..... : No.4 factory building, Zhennan Road, nanshe industrial zone, nanshe village,
Chashan, Dongguan City, Guangdong province, China
Manufacturer..... : Dongguan Xinhailin New Energy Technology Co., Ltd.
Address..... : No.4 factory building, Zhennan Road, nanshe industrial zone, nanshe village,
Chashan, Dongguan City, Guangdong province, China
Factory..... : Dongguan Xinhailin New Energy Technology Co., Ltd.
Address..... : No.4 factory building, Zhennan Road, nanshe industrial zone, nanshe village,
Chashan, Dongguan City, Guangdong province, China
Product Name..... : EV Charing Connector
Brand Name..... : **XINHAILIN, XiHiLiNK**
Model No. : EVE01, EVE02, EVE03, EVE04, EVE05, EVE06 (For model difference refer
to section 2)
FCC ID..... : 2A9TC-TSL01
Measurement Standard..... : 47 CFR FCC Part 15, Subpart C (Section 15.231)
Receipt Date of Samples..... : June 06, 2024
Date of Tested..... : June 12 2024 to June 25, 2024
Date of Report..... : June 29, 2026

This report shows that above equipment is technically compliant with the requirements of the standards above.
All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan
Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.



Prepared by
Alina Guo / Project Engineer



Iori Fan / Authorized Signatory

Table of Contents

1. Summary of Test Result.....	4
2. General Description of EUT	5
3. Test Channels and Modes Detail	8
4. Configuration of EUT	8
5. Modification of EUT	8
6. Description of Support Device.....	8
7. Test Facility and Location	9
8. Applicable Standards and References.....	10
9. Deviations and Abnormalities from Standard Conditions	10
10. Test Conditions	10
11. Measurement Uncertainty	11
12. Sample Calculations	12
13. Duty Cycle	13
14. Test Items and Results	14
14.1 Conducted Emissions Measurement	14
14.2 Radiated Spurious Emissions Measurement.....	18
14.3 20dB Occupied Bandwidth.....	27
14.4 Transmission time	29
14.5 Antenna Requirement	31
15. Test Equipment List.....	32

Revision History

Report Number	Description	Issued Date
NTC2605126FV00	Initial Issue	2026-06-29

1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.207 (a)	AC Power Line Conducted Emission	PASS	---
§15.231(b) & 15.209	Radiated Spurious Emission	PASS	---
§15.231(c)	20 dB Occupied bandwidth	PASS	---
§15.231(a)	Transmission time	PASS	---
§15.203	Antenna Requirement	PASS	---

2. General Description of EUT

Product Information	
Product Name:	EV Charing Connector
Main Model Name:	EVE06
Additional Model Name:	EVE01, EVE02, EVE03, EVE04, EVE05
Model Difference:	Same structure and critical components are used in these models, except for output power, charging connector, output current design. Refer to user manual for details of model number definition. Details see page 6.
S/N:	2406-2768
Brand Name:	XINHAILIN, XiHiLiNK
Hardware Version:	ZZD-24002-V02-RF
Software Version:	315M-V1.1
Rating:	AC 120V/240V, 60Hz, 80A Max
Classification:	Class B
Typical arrangement:	Table-top
I/O Port:	Refer to the user manual
Accessories Information	
Adapter:	N/A
Cable:	7.5m Unshielded
Other:	N/A
Additional Information	
Note:	According to the model difference and manufacturer's requirement, all tests were performed on model EVE06.
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Technical Specification	
Declaring the Frequency:	315MHz±60KHz
Modulation Type:	ASK
Antenna Type:	PCB antenna
Antenna Gain:	3 dBi (Declared by manufacturer)
Number of Channels:	1

Model difference:

Model	Output power	Charging connector	Output current	Cable length
EVE01	3.8KW	NACS	16A	7.5m
EVE02	7.6KW	NACS	32A	7.5m
EVE03	9.6KW	NACS	40A	7.5m
EVE04	12KW	NACS	50A	7.5m
EVE05	14.4KW	NACS	60A	7.5m
EVE06	19.2KW	NACS	80A	7.5m

Revision History

1. This report was an additional report based on original report NTC2406083FV00 in accordance with the agreement between the original report holder and the applicant.
2. Compared with the original report, this report has changed the applicant, manufacturer, factory, product name, model name and brand name. Details as below:

Before change	After change
Applicant, manufacturer, factory: Zhuzhou Zopoise Technology Co., Ltd Address: Phase 2.1 R&D Workshop B and E of Xinma Power Innovation Park 899 Xianyuehuan Road, Tianyuan District, Zhuzhou City, Hunan Province, China Product name: EV Connector Brand name:   , Zopoise Model name: ZAT-U080F001, ZAT-U080A001, ZAT-U080B001, ZAT-U080C001, ZAT-U080D001, ZAT-U080E001, ZAT-U060A001, ZAT-U060B001, ZAT-U060C001, ZAT-U060D001, ZAT-U060E001, ZAT-U060F001, ZAT-U050A001, ZAT-U050B001, ZAT-U050C001, ZAT-U050D001, ZAT-U050E001, ZAT-U050F001, ZAT-U040A001, ZAT-U040B001, ZAT-U040C001, ZAT-U040D001, ZAT-U040E001, ZAT-U040F001, ZAT-U032A001, ZAT-U032B001, ZAT-U032C001, ZAT-U032D001, ZAT-U032E001, ZAT-U032F001, ZAT-U016A001, ZAT-U016B001, ZAT-U016C001, ZAT-U016D001, ZAT-U016E001, ZAT-U016F001	Applicant and manufacturer: Dongguan Xinhailin New Energy Technology Co., Ltd. Address: No.4 factory building, Zhennan Road, nanshe industrial zone, nanshe village, Chashan, Dongguan City, Guangdong province, China Product name: EV Charging Connector Trade mark: XINHAILIN, XiHiLiNK Model name: EVE01, EVE02, EVE03, EVE04, EVE05, EVE06

3. The new models are the same as the original models ZAT-U080F001 except the model name, brand name output power, charging connector, output current design and charging connector cable length.

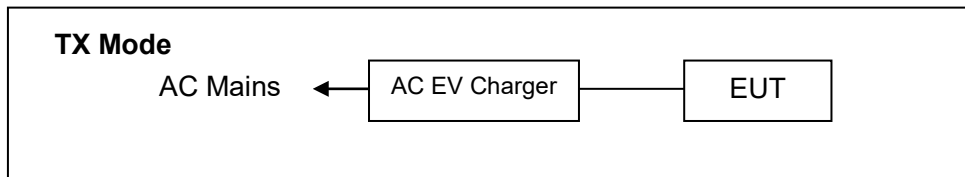
4. According to these changes, the test result will not be affected, thus, all of the original test data were continued to be referenced, details refer to the report.

3. Test Channels and Modes Detail

Mode		Test Frequency (MHz)	Modulation	Data Rate (Mbps)
1	TX	315MHz	ASK	---

Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.

4. Configuration of EUT



5. Modification of EUT

No modifications are made to the EUT during all test items.

6. Description of Support Device

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.

No.	Equipment	Brand	M/N	S/N	Cable Specification	Remarks
1.	AC EV Charger	Zopoise	ZB04-U011K	N/A	N/A	N/A

7. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	:	The Laboratory has been assessed and proved to be in compliance with CNAS/CL01 Listed by CNAS, August 13, 2018 The Certificate Registration Number is L5795. The Certificate is valid until August 13, 2030 The Laboratory has been assessed and proved to be in compliance with ISO17025 Listed by A2LA, November 01, 2017 The Certificate Registration Number is 4429.01 The Certificate is valid until December 31, 2027 Listed by FCC, November 06, 2017 Test Firm Registration Number: 907417 Listed by Industry Canada, June 08, 2017 The Certificate Registration Number. Is 46405-9743A
Test Site Location	:	Room 101, 1101, Building 2, No. 61, Hongmei Section, Wangsha Road, Hongmei Town, Dongguan, Guangdong, People's Republic of China

8. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 15, Subpart C, 15.231

ANSI C63.10-2013

References Test Guidance:

N/A

9. Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

10. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	AC Power Conducted Emission	1	AC 120V/60Hz	Sean	See note 1
2.	Radiated Emission	1	AC 120V/60Hz	Sean	See note 1
3.	20 dB Occupied bandwidth	1	AC 120V/60Hz	Sean	See note 1
4.	Transmission time	1	AC 120V/60Hz	Sean	See note 1
5.	Antenna Requirement	---	---	---	---

Note:

- The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35°C, 30~70%, 86~106kPa.
- AC 120V/60Hz from AC EV Charger.

11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±2.52 dB	---
2.	Radiated Emission Test	9kHz ~ 30MHz	±5.66 dB	---
		30MHz ~ 1GHz	±5.66 dB	---
		1GHz ~ 18GHz	±5.19 dB	---
		18GHz ~ 40GHz	±5.19 dB	
3.	Occupied Bandwidth	---	±0.72%	---
4.	Transmission time	---	±0.01ms	---

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The measurement uncertainty levels above are estimated and calculated according to CISPR 16-4-2.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

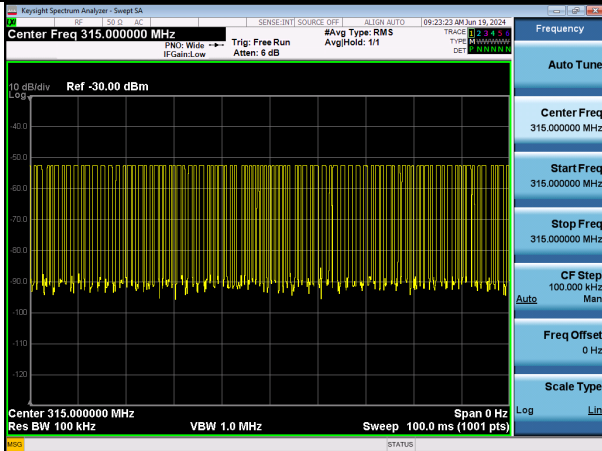
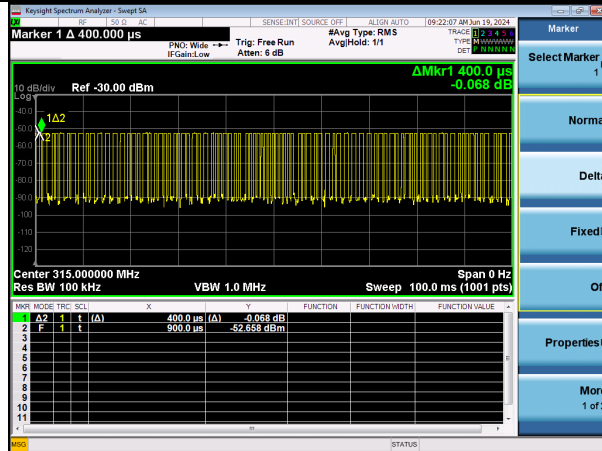
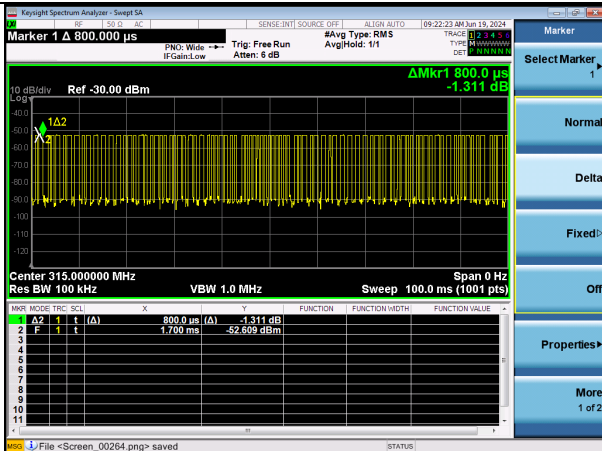
12. Sample Calculations

Conducted Emission						
Freq. (MHz)	Reading Level (dBUV)	Correct Factor (dB)	Measurement (dBUV)	Limit (dBUV)	Over (dB)	Detector
0.1900	30.10	10.60	40.70	79.00	-38.30	QP
Where, Freq. = Emission frequency in MHz Reading Level = Spectrum Analyzer/Receiver Reading Corrector Factor = Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation Measurement = Reading + Corrector Factor Limit = Limit stated in standard Margin = Measurement - Limit Detector = Reading for Quasi-Peak / Average / Peak						

Radiated Spurious Emissions						
Freq. (MHz)	Reading Level (dBUV)	Correct Factor (dB/m)	Measurement (dBUV/m)	Limit (dBUV/m)	Over (dB)	Detector
324.8800	14.81	22.09	36.90	46.00	-9.10	QP
Where, Freq. = Emission frequency in MHz Reading Level = Spectrum Analyzer/Receiver Reading Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier Measurement = Reading + Corrector Factor Limit = Limit stated in standard Over = Margin, which calculated by Measurement - Limit Detector = Reading for Quasi-Peak / Average / Peak						

Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.

13. Duty Cycle

Frequency MHz	TP time (ms)	Ton time (Total) (ms)	Duty cycle	AV Factor
315	100	49.2	49.2%	-6.16
Test Photo				
TP time		Ton 1 time		
				
Ton 2 time		---		
		Blank		
Note: Duty Cycle = (Total Ton time / TP time) x 100%				
Total Ton time = Ton 1 x n1 + Ton 2 x n2 ++ Ton n x n = 0.4*55 + 0.8*34=49.2ms				
AV Factor = 20log(Duty Cycle).				

14. Test Items and Results

14.1 Conducted Emissions Measurement

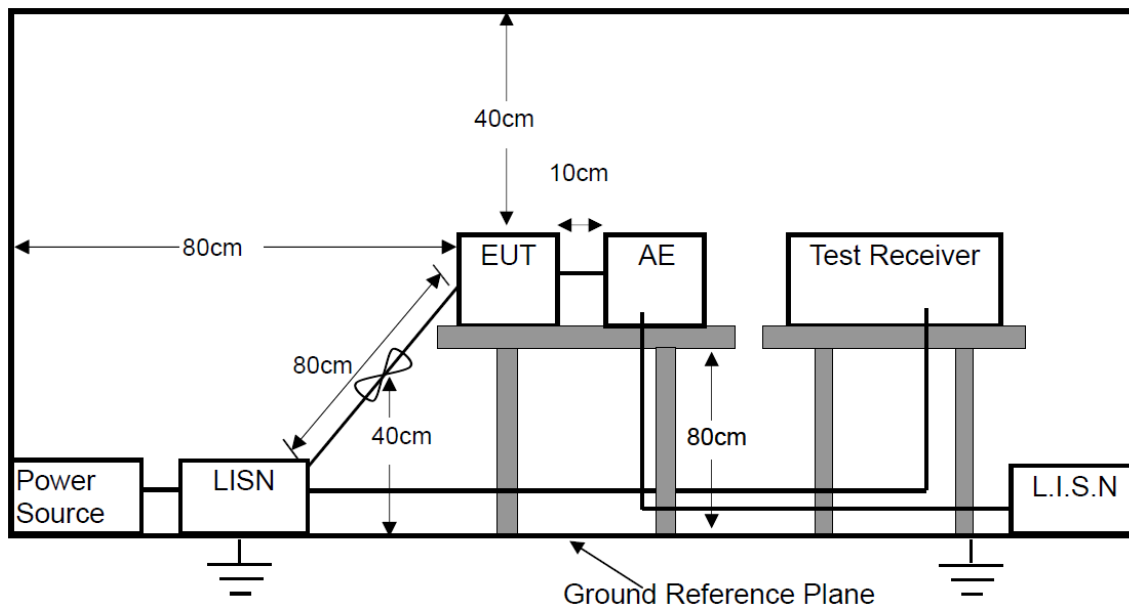
LIMIT

According to the requirements of FCC PART 15.207, the limits are as follows:

Frequency (MHz)	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

- Note:
1. If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.
 2. The lower limit shall apply at the transition frequencies.
 3. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. All I/O cables and support devices were positioned as per ANSI C63.10.
- c. Connect mains power port of the EUT to a line impedance stabilization network (LISN).
- d. Connect all support devices to the other LISN and AAN, if needed.
- e. Scan the frequency range from 150KHz to 30MHz at both sides of AC line for maximum conducted interference checking and record the test data.

TEST RESULTS

PASS

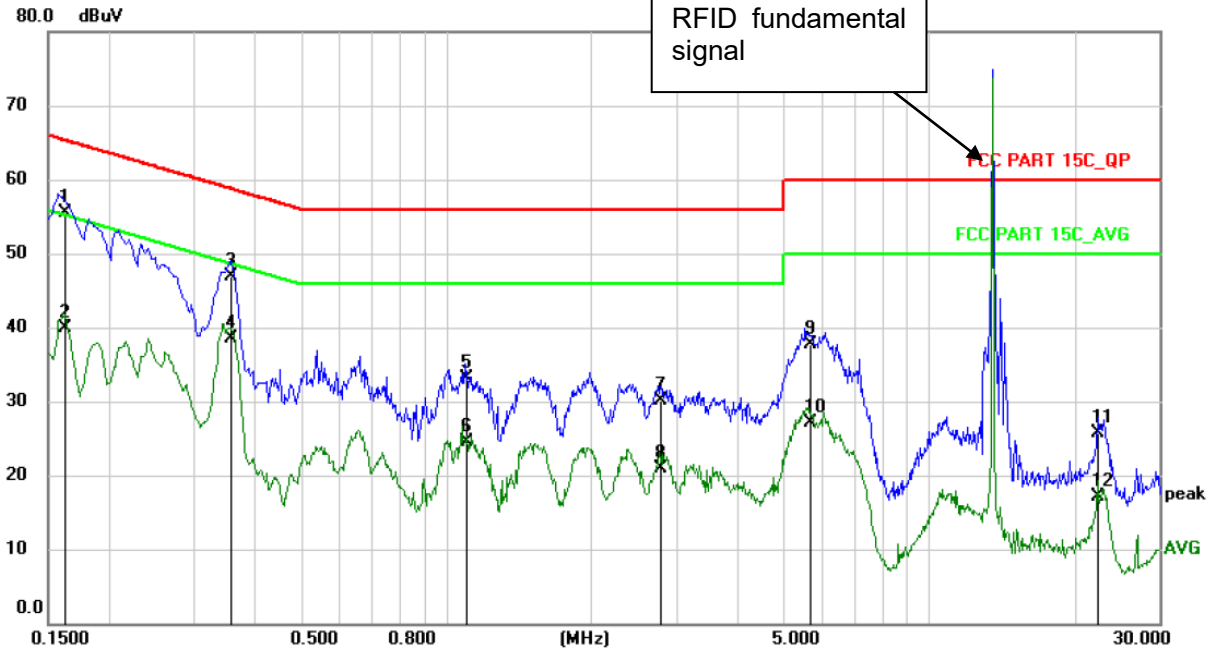
Please refer to the following pages.

M/N: EVE06	Testing Voltage: AC 120V / 60Hz
Phase: L1	Detector: QP & AVG
Test Mode: 1	

Conducted Emission Measurement

Date: 2024/6/18

Time: 9:40:56



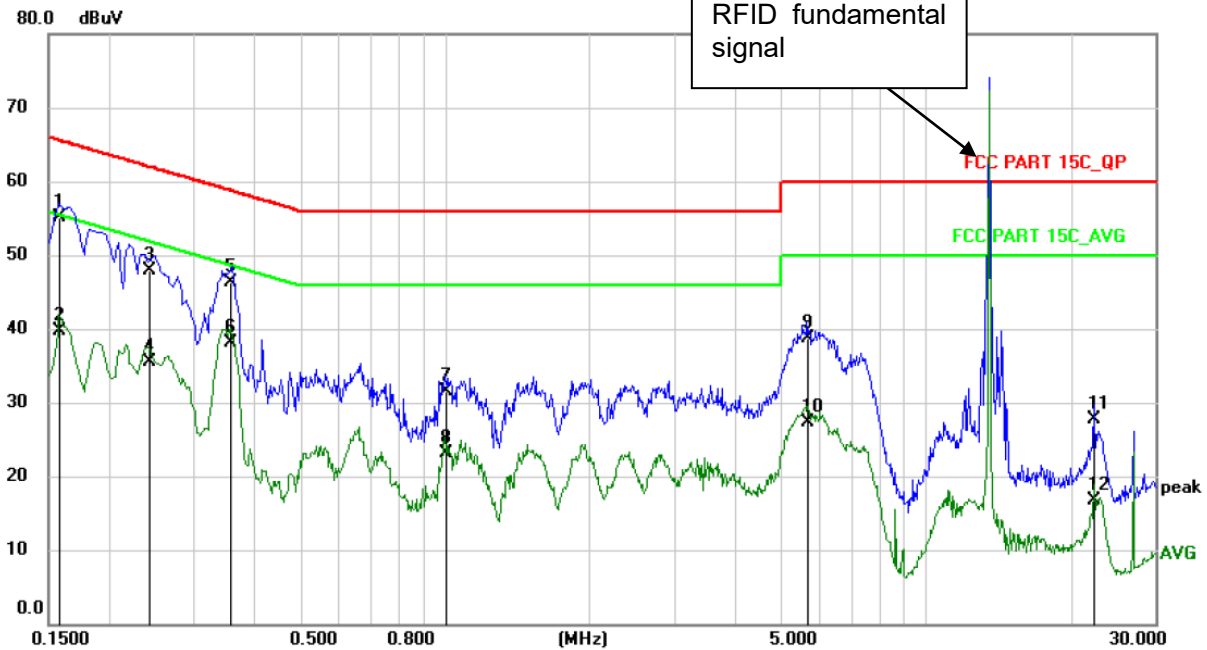
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1620	45.51	9.99	55.50	65.36	-9.86	QP	
2	0.1620	29.91	9.99	39.90	55.36	-15.46	AVG	
3	0.3580	36.94	10.06	47.00	58.77	-11.77	QP	
4	0.3580	28.54	10.06	38.60	48.77	-10.17	AVG	
5	1.0980	23.10	10.00	33.10	56.00	-22.90	QP	
6	1.0980	14.60	10.00	24.60	46.00	-21.40	AVG	
7	2.7740	20.06	10.04	30.10	56.00	-25.90	QP	
8	2.7740	10.96	10.04	21.00	46.00	-25.00	AVG	
9	5.6700	27.72	10.08	37.80	60.00	-22.20	QP	
10	5.6700	17.02	10.08	27.10	50.00	-22.90	AVG	
11	22.4020	15.38	10.42	25.80	60.00	-34.20	QP	
12	22.4020	6.78	10.42	17.20	50.00	-32.80	AVG	

M/N: EVE06	Testing Voltage: AC 120V / 60Hz
Phase: N	Detector: QP & AVG
Test Mode: 1	

Conducted Emission Measurement

Date: 2024/6/18

Time: 9:46:44



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1 *	0.1580	45.16	9.94	55.10	65.57	-10.47	QP	
2	0.1580	29.86	9.94	39.80	55.57	-15.77	AVG	
3	0.2420	38.01	9.99	48.00	62.03	-14.03	QP	
4	0.2420	25.51	9.99	35.50	52.03	-16.53	AVG	
5	0.3580	36.38	10.02	46.40	58.77	-12.37	QP	
6	0.3580	28.08	10.02	38.10	48.77	-10.67	AVG	
7	1.0020	21.64	9.96	31.60	56.00	-24.40	QP	
8	1.0020	13.24	9.96	23.20	46.00	-22.80	AVG	
9	5.6540	28.76	10.04	38.80	60.00	-21.20	QP	
10	5.6540	17.36	10.04	27.40	50.00	-22.60	AVG	
11	22.3980	17.34	10.36	27.70	60.00	-32.30	QP	
12	22.3980	6.44	10.36	16.80	50.00	-33.20	AVG	

14.2 Radiated Spurious Emissions Measurement

LIMIT

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)
		$\mu\text{V/m}$
0.009 ~ 0.490	300	2400/F(kHz)
0.490 ~ 1.705	30	24000/F(kHz)
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

Remark: (1) Emission level (dB) μV = 20 log Emission level $\mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

(4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

(5) §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.

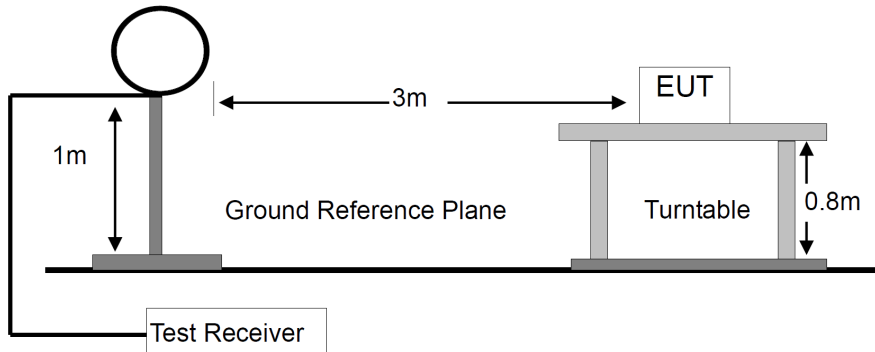
According to 15.231(b), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/ meter)	spurious emissions (microvolts/meter)
40.66 - 40.70	2250	225
70 - 130	1250	125
130 - 174	1250 to 3750*	125 to 375*
174 - 260	3750	375
260 - 470	3750 to 12500*	375 to 1250*
Above 470	12500	1250

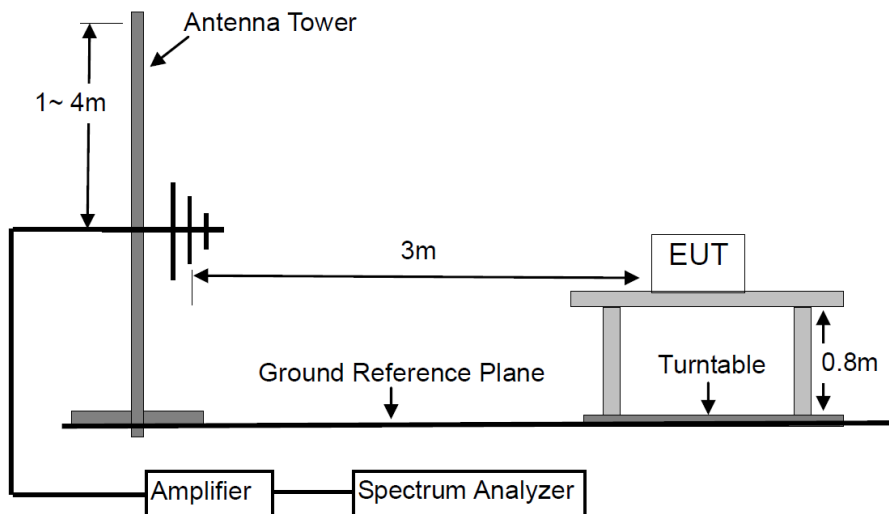
Remark: (1) * Linear interpolations
 (2) Emission level (dB) μ V = 20 log Emission level μ V/m.
 (3) The smaller limit shall apply at the cross point between two frequency bands.

BLOCK DIAGRAM OF TEST SETUP

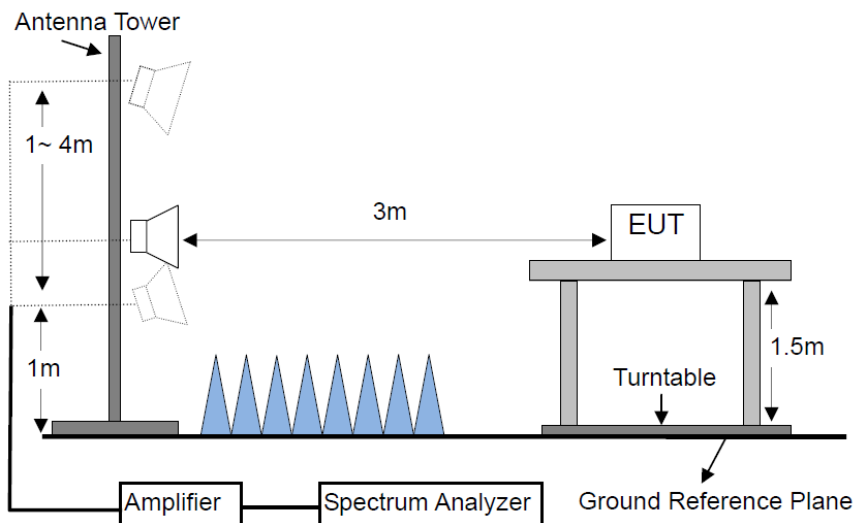
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.



TEST PROCEDURES

- a. Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:

The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. 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.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Detector	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

TEST RESULTS

PASS

Please refer to the following pages.

AVG = Peak + AV Factor,

where Peak is the measurement peak level, and AV Factor is calculated by duty cycle, details see section 13 of the report.

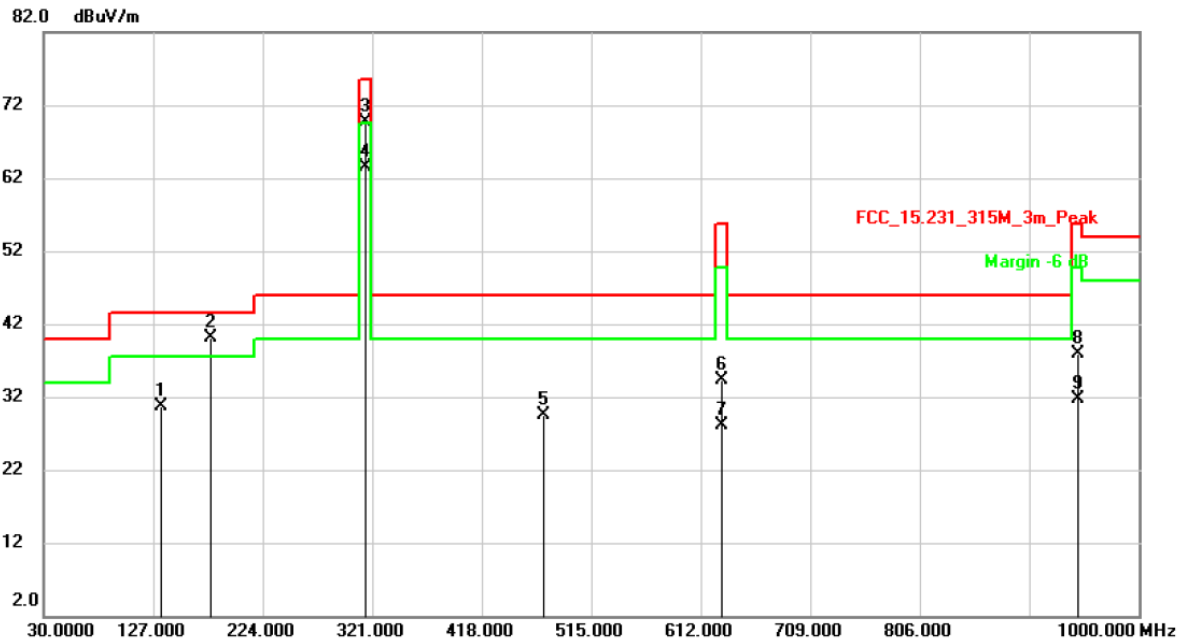
Sample calculation, Peak=70.50dBuV/m, AV Factor= -10.98dB, then AVG=70.50+(-10.98)=59.52dBuV/m.

M/N: EVE06	Testing Voltage: AC 120V / 60Hz
Polarization: Horizontal	Detector: QP
Test Mode: TX	Distance: 3m

Radiated Emission Measurement

Date: 2024/6/24

Time: 11:00:32



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		133.7899	14.15	16.55	30.70	43.50	-12.80	QP	
2	*	177.4400	22.64	17.56	40.20	43.50	-3.30	QP	
3	!	315.0000	47.86	21.81	69.67			peak	
4		315.0000			63.51	75.60	-12.09	AVG	
5		473.2900	4.54	24.96	29.50	46.00	-16.50	QP	
6		630.0000	6.58	27.69	34.27			peak	
7		630.0000			28.11	55.60	-27.49	AVG	
8		945.0000	4.67	33.24	37.91			peak	
9		945.0000			31.75	55.60	-23.85	AVG	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

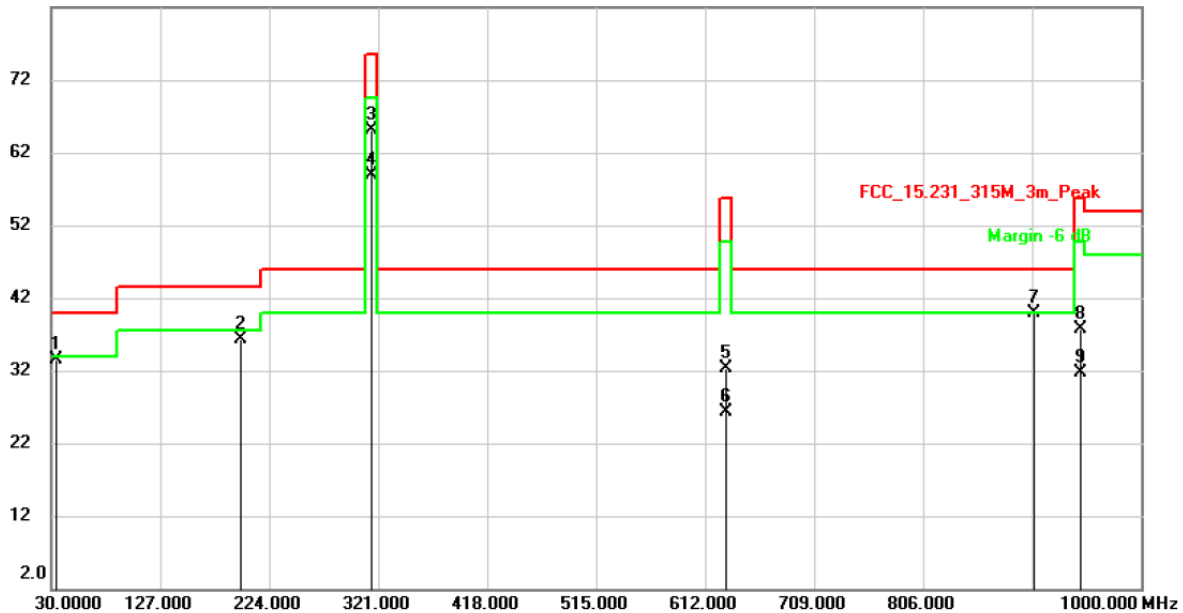
M/N: EVE06	Testing Voltage: AC 120V / 60Hz
Polarization: Vertical	Detector: QP
Test Mode: TX	Distance: 3m

Radiated Emission Measurement

Date: 2024/6/24

Time: 11:08:19

82.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		33.8800	15.55	17.95	33.50	40.00	-6.50	QP	
2		198.7800	18.21	18.09	36.30	43.50	-7.20	QP	
3		315.0000	44.22	20.81	65.03			peak	
4		315.0000			58.87	75.60	-16.73	AVG	
5		630.0000	5.41	26.99	32.40			peak	
6		630.0000			26.24	55.60	-29.36	AVG	
7	*	904.9400	8.14	31.76	39.90	46.00	-6.10	QP	
8		945.0000	5.74	32.03	37.77			peak	
9		945.0000			31.61	55.60	-23.99	AVG	

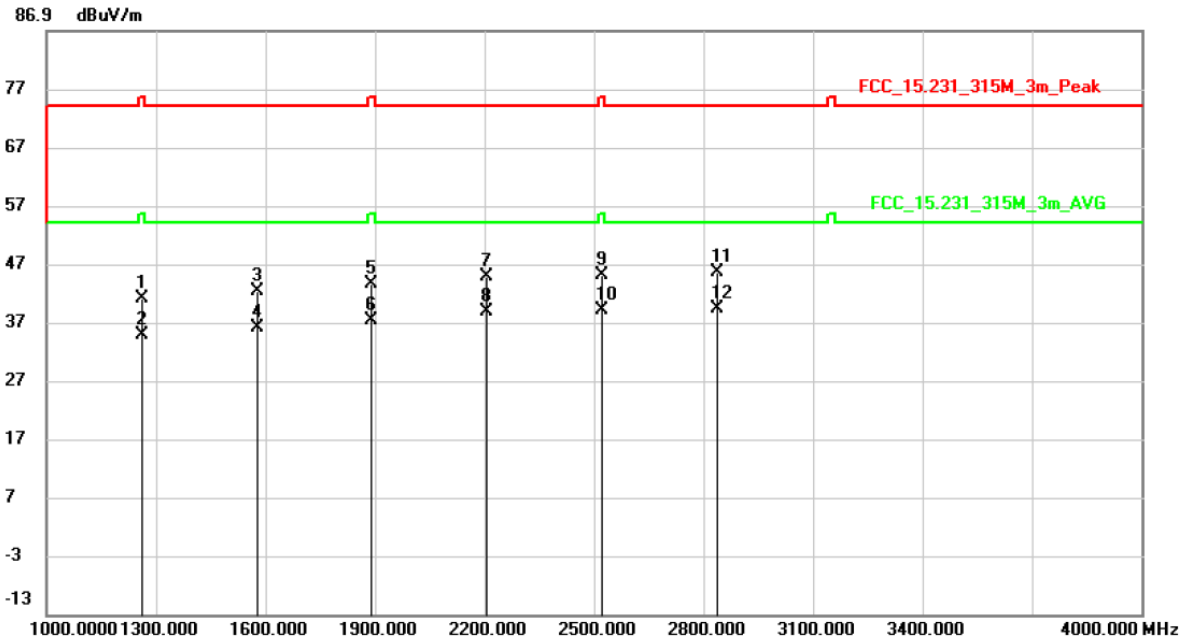
Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

M/N: EVE06	Testing Voltage: AC 120V / 60Hz
Polarization: Horizontal	Detector: Peak & AVG
Test Mode: TX	Distance: 3m

Radiated Emission Measurement

Date: 2024/6/24

Time: 21:10:44



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1260.000	48.81	-7.82	40.99	75.60	-34.61	peak	
2		1260.000			34.83	55.60	-20.77	AVG	
3		1575.000	48.42	-6.19	42.23	74.00	-31.77	peak	
4		1575.000			36.07	54.00	-17.93	AVG	
5		1890.000	45.80	-2.30	43.50	75.60	-32.10	peak	
6		1890.000			37.34	55.60	-18.26	AVG	
7		2205.000	45.26	-0.38	44.88	74.00	-29.12	peak	
8		2205.000			38.72	54.00	-15.28	AVG	
9		2520.000	44.68	0.47	45.15	75.60	-30.45	peak	
10		2520.000			38.99	55.60	-16.61	AVG	
11		2835.000	44.03	1.46	45.49	74.00	-28.51	peak	
12	*	2835.000			39.33	54.00	-14.67	AVG	

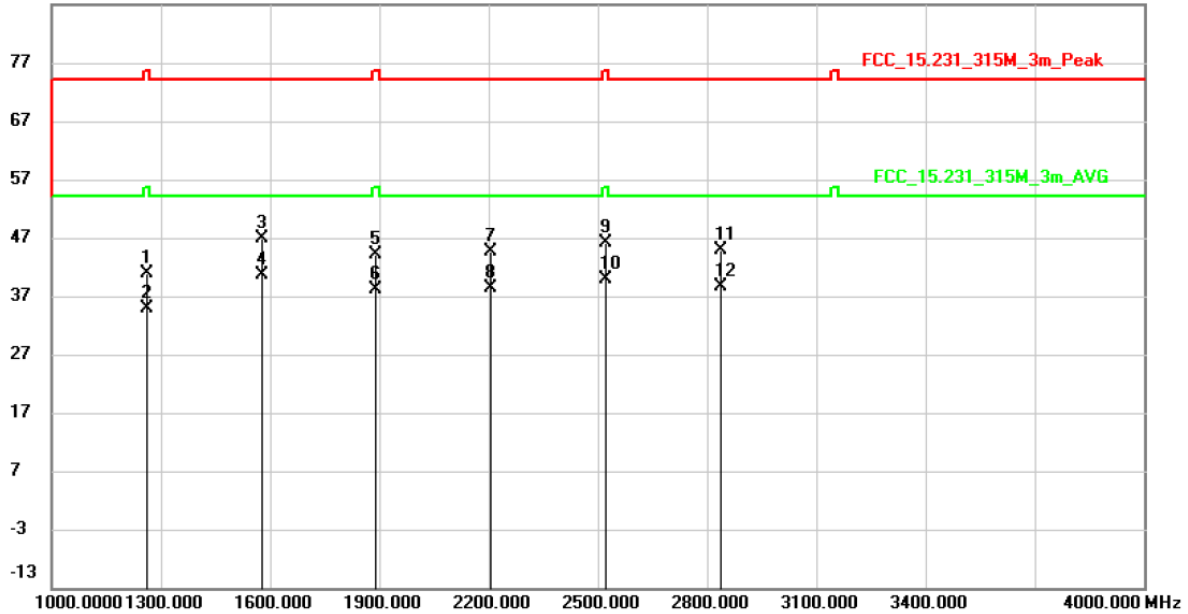
M/N: EVE06	Testing Voltage: AC 120V / 60Hz
Polarization: Vertical	Detector: Peak & AVG
Test Mode: TX	Distance: 3m

Radiated Emission Measurement

Date: 2024/6/24

Time: 21:17:41

86.9 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1260.000	48.72	-7.82	40.90	75.60	-34.70	peak	
2		1260.000			34.74	55.60	-20.86	AVG	
3		1575.000	52.94	-6.19	46.75	74.00	-27.25	peak	
4	*	1575.000			40.59	54.00	-13.41	AVG	
5		1890.000	46.37	-2.30	44.07	75.60	-31.53	peak	
6		1890.000			37.91	55.60	-17.69	AVG	
7		2205.000	44.85	-0.38	44.47	74.00	-29.53	peak	
8		2205.000			38.31	54.00	-15.69	AVG	
9		2520.000	45.48	0.47	45.95	75.60	-29.65	peak	
10		2520.000			39.79	55.60	-15.81	AVG	
11		2835.000	43.32	1.46	44.78	74.00	-29.22	peak	
12		2835.000			38.62	54.00	-15.38	AVG	

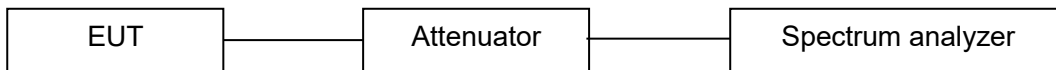
14.3 20dB Occupied Bandwidth

LIMIT

According to 15.231(C), the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz.

Limit = $315\text{MHz} \times 0.25\% = 787.5\text{KHz}$

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

1. The output port (antenna) from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.
2. Spectrum analyzer set the corresponding parameters for measurement and record the tested data

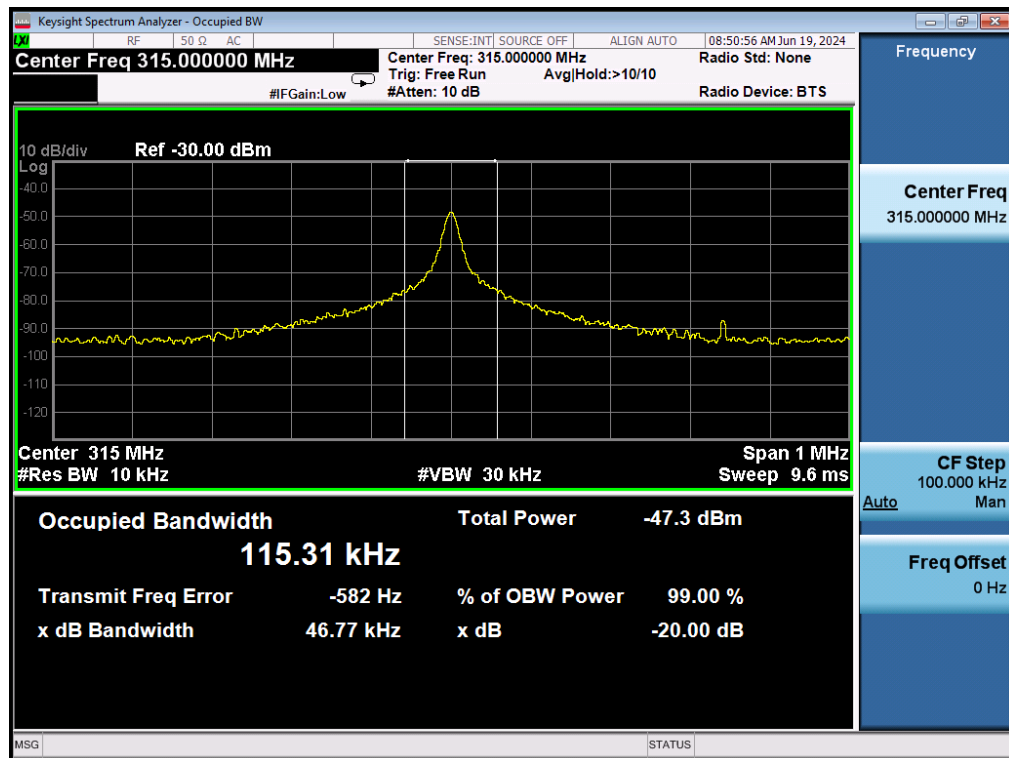
TEST RESULTS

PASS

Please refer to the following table.

Frequency (MHz)	20 dB Bandwidth (KHz)	Limit (KHz)	Result
315	46.77	787.5	PASS

Test Photo



14.4 Transmission time

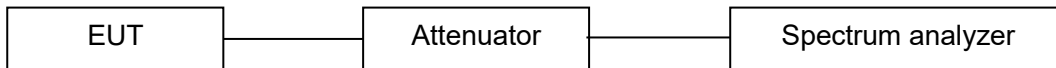
LIMIT

15.231 (a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

15.231(a) (2) A transmitter activated automatically shall cease transmission within 5seconds after activation.

15.231(e), under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of transmission but in no case less than 10 seconds.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

1. The output port (antenna) from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.
2. Spectrum analyzer set the corresponding parameters for measurement and record the tested data.

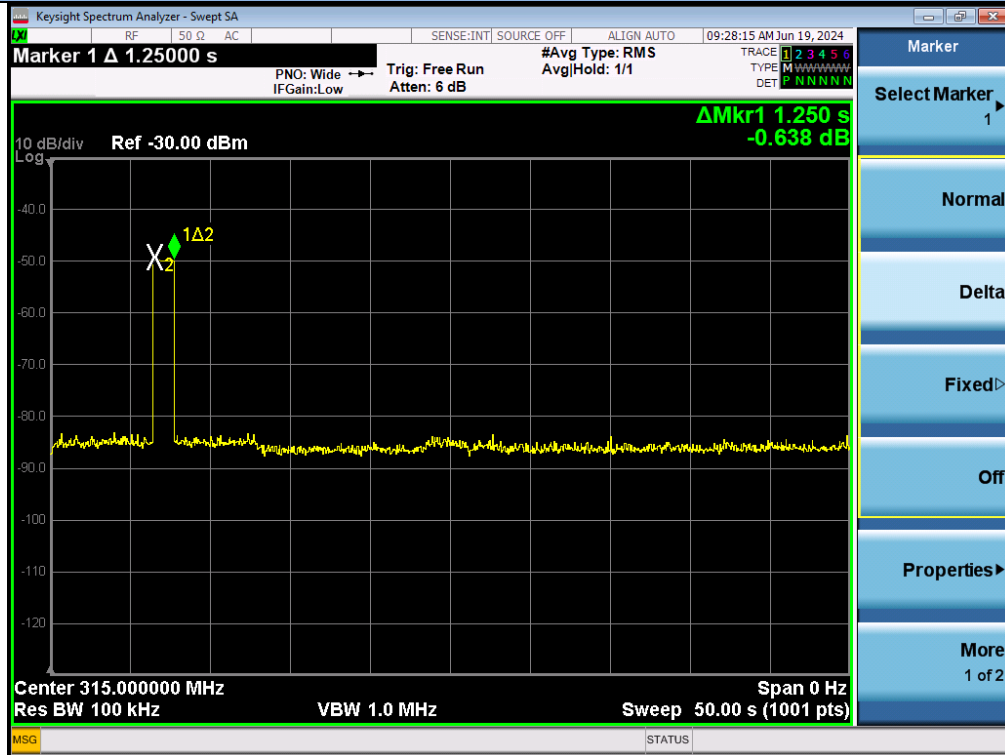
TEST RESULTS

PASS

Please refer to the following table.

Frequency (MHz)	Transmission time (sec)	Limit (sec)	Result
315	1.25	<5	PASS

Test Photo



14.5 Antenna Requirement

STANDARD APPLICABLE

According to of FCC part 15C section 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

ANTENNA CONNECTED CONSTRUCTION

The antenna is PCB antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 3dBi, Therefore, the antenna is consider meet the requirement.

15. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 12, 2024	1 Year
2.	Antenna	Schwarzbeck	VULB9162	9162-010	Mar. 23, 2024	2 Year
3.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Mar. 12, 2024	1 Year
4.	Spectrum Analyzer	Keysight	N9010B	MY62170254	Aug. 07, 2023	1 Year
5.	Horn Antenna+Pre-Amplifier	COM-POWER	AH-840	10100020	Mar. 23, 2024	2 Year
6.	Power Sensor	DARE	RPR3006W	15I00041SNO 64	Mar. 12, 2024	1 Year
7.	Horn Antenna	COM-Power	AH-118	071078	Mar. 23, 2024	2 Year
8.	Pre-Amplifier	HP	HP 8449B	3008A00964	Mar. 12, 2024	1 Year
9.	Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 12, 2024	1 Year
10.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Mar. 23, 2024	2 Year
11.	Test Receiver	Rohde & Schwarz	ESCI	101152	Mar. 12, 2024	1 Year
12.	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Mar. 12, 2024	1 Year
13.	L.I.S.N	Rohde & Schwarz	ESH2-Z5	893606/014	Mar. 12, 2024	1 Year
14.	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Mar. 12, 2024	1 Year
15.	Temperature & Humidity Chamber	WANSHUN	SS-HWHS-80	N/A	Mar. 12, 2024	1 Year
16.	DC Source	Maynuo	MY8811	N/A	Mar. 12, 2024	1 Year
17.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
18.	Chamber	SAEMC	9*7*7m	N/A	Apr. 21, 2023	2 Year
19.	Test Software	EZ	EZ EMC NTC-3A1.1	N/A	N/A	N/A

Note: For photographs of EUT and measurement, please refer to appendix in separate documents.

---End---