TEST REPORT

FCC Rules Part 15.231

Report Reference No..... :	**MTEB26090106-R1**	
FCC ID..... :	**2BS8H-VNTVMSLIT**	
Compiled by (position+printed name+signature).. :	File administrators Alisa Luo	Alisa Luo
Supervised by (position+printed name+signature).. :	Test Engineer Sunny Deng	Sunny Deng
Approved by (position+printed name+signature).. :	Manager Yvette Zhou	Yvette
Date of issue.....:	**Sep.14,2026**	
Representative Laboratory Name. :	**Shenzhen Most Technology Service Co., Ltd.**	
Address..... :	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.	
Applicant's name.....:	**Zhongshan Jucar Electronic Technology CO.,LTD**	
Address..... :	ROOM 701 ,NO.1 BUILDING,NO 23 WEST OF TONGJI ROAD,NANTOU TOWN,ZHONGSHAN528427,GUANG DONG PROVINCE,CHINA	
Test specification/ Standard.....:	**FCC Part15 Subpart C, Section 15.231**	
TRF Originator.....:	Shenzhen Most Technology Service Co., Ltd.	

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Test item description.....:	V-NTVMS-LIT-AB-01
Trade Mark.....:	NICAR
Model/Type reference..... :	V-NTVMS-LIT-AB-01
Listed Models ..... :	V-NTVMS-LIT-BB-01
Modulation Type..... :	FSK
Operation Frequency..... :	433.92MHz
Hardware Version.....	V1.0
Software Version.....	V1.0
Rating.....:	DC 3.7V by Battery DC 5V by USB Port
Result.....:	**PASS**

TEST REPORT

Equipment under Test	:	V-NTVMS-LIT-AB-01
Model /Type	:	V-NTVMS-LIT-AB-01
Listed Models	:	V-NTVMS-LIT-BB-01
Remark		Only the model " V-NTVMS-LIT-AB-01 " was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name and appearance colour is different.
Applicant	:	**Zhongshan Jucar Electronic Technology CO.,LTD**
Address	:	ROOM 701 ,NO.1 BUILDING,NO 23 WEST OF TONGJI ROAD, NANTOU TOWN,ZHONGSHAN528427,GUANG DONG PROVINCE,CHINA
Manufacturer	:	**Zhongshan Jucar Electronic Technology CO.,LTD**
Address	:	ROOM 701 ,NO.1 BUILDING,NO 23 WEST OF TONGJI ROAD, NANTOU TOWN,ZHONGSHAN528427,GUANG DONG PROVINCE,CHINA

Test Result:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2026.09.14	Initial Issue	Alisa Luo

2. TEST STANDARDS

The tests were performed according to following standards:

The tests were performed according to following standards:

FCC Rules Part 15.231: Periodic operation in the band 40.66-40.70 MHz and above 70 MHz.

ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 : American National Standard for Testing Unlicensed Wireless Devices

ANSI C63.4: 2014: –American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz
Range of 9 kHz to 40GHz

3. SUMMARY

3.1. General Remarks

Date of receipt of test sample	:	2026.08.17
Testing commenced on	:	2026.08.18
Testing concluded on	:	2026.09.14

3.2. Product Description

Product Name:	V-NTVMS-LIT-AB-01
Model/Type reference:	V-NTVMS-LIT-AB-01
Power Supply：	DC 3.7V by Battery DC 5V by USB Port
Testing sample ID：	MTYP14084
Modulation:	FSK
Operation frequency:	433.92MHz
Channel number:	1
Antenna type:	Spring antenna
Antenna gain:	2dBi

3.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	○	230V / 50 Hz	○	120V / 60Hz
		○	12 V DC	○	24 V DC
		●	Other (specified in blank below)		

DC 3.7V by Battery
DC 5V by USB Port

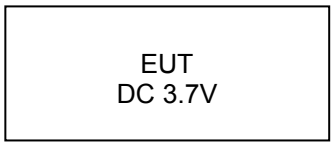
3.4. Short description of the Equipment under Test (EUT)

This is a V-NTVMS-LIT-AB-01 For more details, refer to the user's manual of the EUT.

3.5. EUT operation mode

Channel	Freq.(MHz)	Note(Modulation Type)
01	433.92	FSK

3.6. Block Diagram of Test Setup



3.7. Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	/	/	/	/	/
EUT B	/	/	/	/	/

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8. Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1	Adapter	MDY-10-EC	/	/
AE 2	/	/	/	/

3.9 Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1	/	/	433.92	---	2dBi
Antenna 2	/	/	/	/	/

*: declared by the applicant.

3.10. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

○ - supplied by the manufacturer

● - Supplied by the lab

●	ADAPTER	M/N:	MDY-10-EC
		Manufacturer:	Xiaomi Communications Co.,Ltd

3.11. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.
No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.2. Environmental conditions

Radiated Emission:

Temperature:	23 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

Conducted testing：

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

4.3. Test Description

FCC and IC Requirements		
FCC Part 15.203	Antenna Requirement	PASS
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.231(b)	Electric Field Strength of Fundamental Emission	PASS
FCC Part 15.209& 15.231(b)	Spurious Emissions	PASS
FCC Part 15.231(c)	20dB Occupied Bandwidth	PASS
FCC Part 15.231(a)	Dwell time	PASS

Remark:
1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5. Equipments Used during the Test

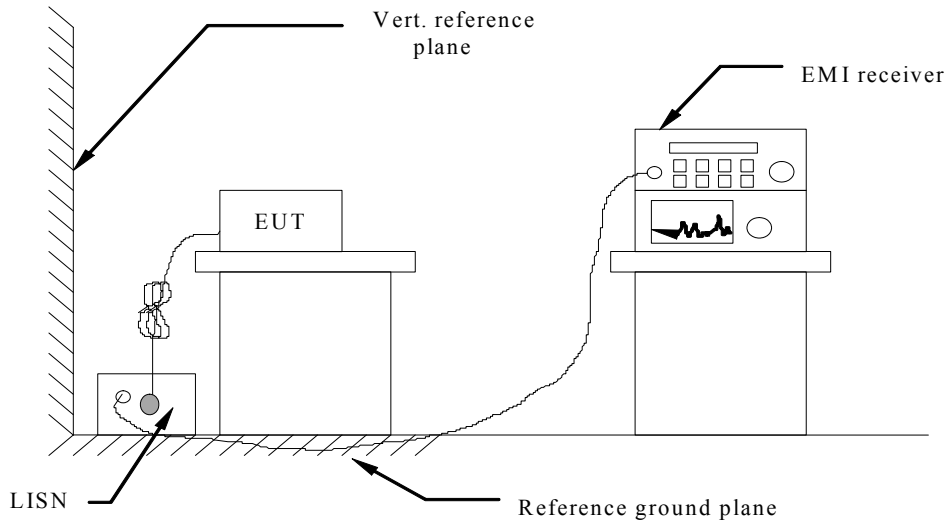
Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.
1.	L.I.S.N.	R&S	ENV216	100093	/	2026/02/28
2.	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	/	2026/02/28
3.	Receiver	R&S	ESCI	100492	V3.0-10-2	2026/02/28
4.	Receiver	R&S	ESPI	101202	V3.0-10-2	2026/02/28
5.	Spectrum analyzer	Agilent	9020A	/	A14.16	2026/02/28
6.	Bilong Antenna	Sunol Sciences	JB3	A121206	/	2025/11/22
7.	Horn antenna	HF Antenna	HF Antenna	/	/	2026/03/08
8.	Loop antenna	Beijing Daze	ZN30900B	/	/	2026/03/28
10.	Wireless Communication Test Set	R&S	CMW500	155873	V3.7.40	2026/02/28
11.	Preamplifier	Millitech	KA-LNA18-40-01	18050001	/	2026/02/28
12.	High gain antenna	A-INFOMW	LB-180400KF	J211060273	/	2026/02/28
13.	Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2026/02/28
14.	Pre-amplifier	lenscend	TAP011840	AP21C806124	/	2026/02/28
15.	RF Cable(below1GHz)	Times	9kHz-1GHz	/	/	2026/02/28
16.	RF Cable(above1GHz)	Times	1-18G	/	/	2026/02/28
17.	RF Cable(9KHz-40GHz)	Tonscend	170660	/	/	2026/02/28
18.	vector Signal Generator	ROHDE & SCHWARZ	SMBV100B		/	2026/02/28
19.	Signal Generator	Agilent	5181A		/	2026/02/28
20.	splitter	Mini-Circuits	ZAP-50W	NN256400424	/	2026/02/28
21.	Humid & Temp Programmable Tester	Haida	HD-2257	110807201	/	2026/02/28
22.	X-series USB Peak and Average Power Sensor	Agilent	U2021XA	MY54080019	/	2026/02/28
23.	4 Ch.Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	TW54063507	/	2026/02/28
24.	splitter	Mini-Circuits	ZAP-50W	NN256400424	/	2026/02/28
25.	Power meter	R&S	NRVS	100444	/	2026/02/28
26.	Testing software	Fala	EZ-EMC(CE)	/	Ver.FA-03A1	/
27.	Testing software	Fala	EZ-EMC(RE)	/	Ver.FA-03A3	/
27.	Testing software	WCS	WCS	/	Ver.23.06.1401	/

Note: The Cal.Interval was one year.

5. TEST CONDITIONS AND RESULTS

5.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
2 Support equipment, if needed, was placed as per ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
3 All I/O cables were positioned to simulate typical actual usage as per ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
4 The EUT received DC 5V by adapter, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5 All support equipments received AC power from a second LISN, if any.
6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8 During the above scans, the emissions were maximized by cable manipulation.

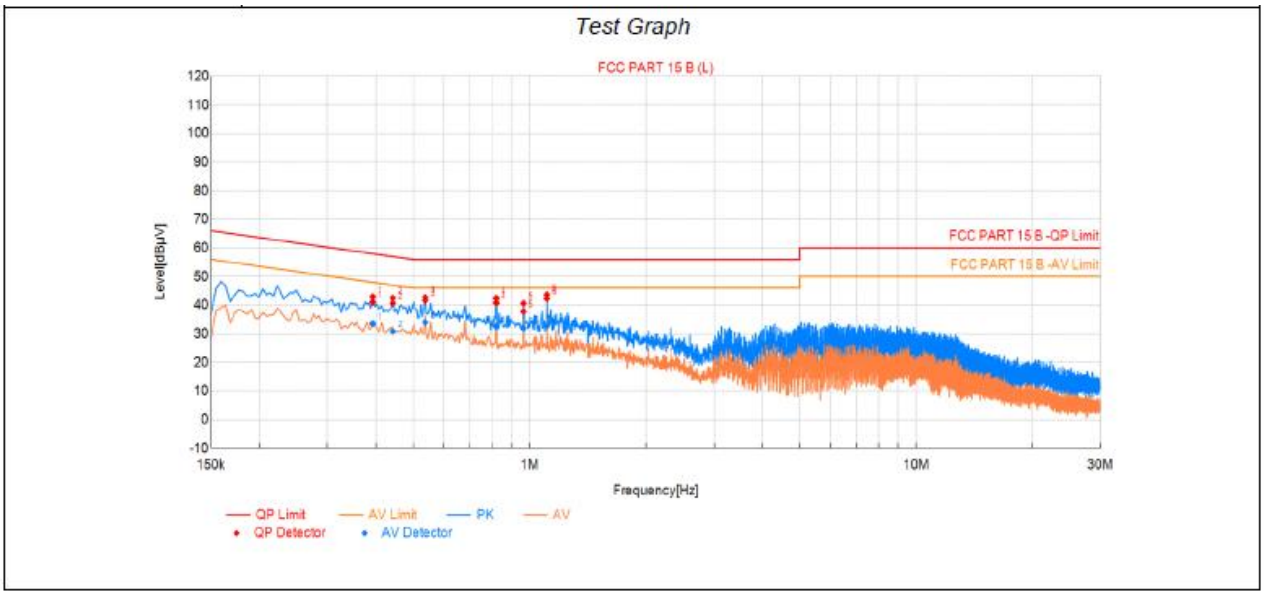
AC Power Conducted Emission Limit

For unintentional device, according to RSS Gen 8.8 and § 15.207(a) Line Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
* Decreases with the logarithm of the frequency.		

TEST RESULTS
PASS

Power supply:	DC 5V by USB Port	Polarization	L



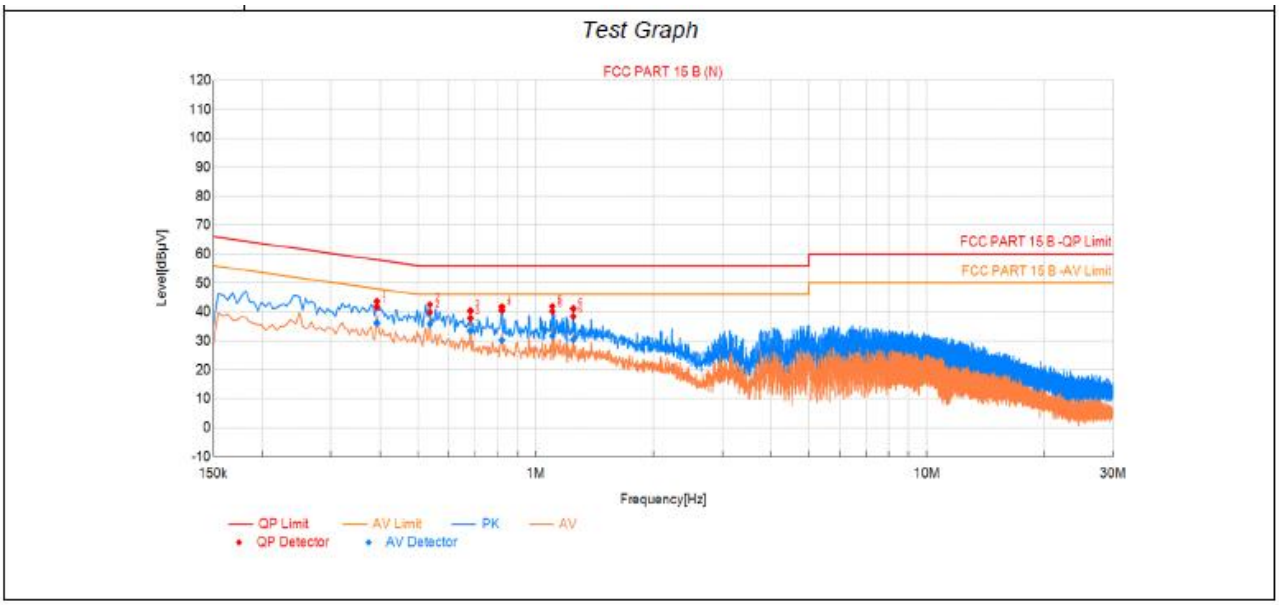
Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.393	9.59	31.50	41.09	58.00	16.91	23.98	33.57	48.00	14.43	PASS
2	0.4425	9.59	31.12	40.71	57.01	16.30	21.30	30.89	47.01	16.12	PASS
3	0.537	9.59	32.10	41.69	56.00	14.31	24.46	34.05	46.00	11.95	PASS
4	0.8205	9.60	31.21	40.81	56.00	15.19	22.95	32.55	46.00	13.45	PASS
5	0.9645	9.60	28.22	37.82	56.00	18.18	22.39	31.99	46.00	14.01	PASS
6	1.1085	9.60	32.67	42.27	56.00	13.73	23.20	32.80	46.00	13.20	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

Power supply:	DC 5V by USB Port	Polarization	N



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.393	9.59	32.08	41.67	58.00	16.33	26.64	36.23	48.00	11.77	PASS
2	0.537	9.59	30.39	39.98	56.00	16.02	26.28	35.87	46.00	10.13	PASS
3	0.681	9.60	28.21	37.81	56.00	18.19	23.87	33.47	46.00	12.53	PASS
4	0.8205	9.60	30.95	40.55	56.00	15.45	20.66	30.26	46.00	15.74	PASS
5	1.104	9.60	30.66	40.26	56.00	15.74	22.19	31.79	46.00	14.21	PASS
6	1.248	9.60	28.86	38.46	56.00	17.54	20.83	30.43	46.00	15.57	PASS

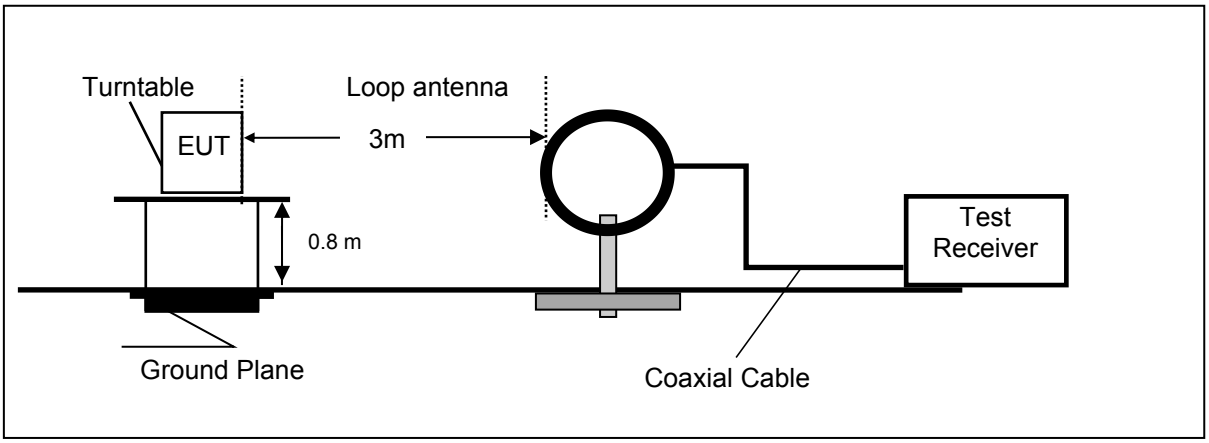
Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

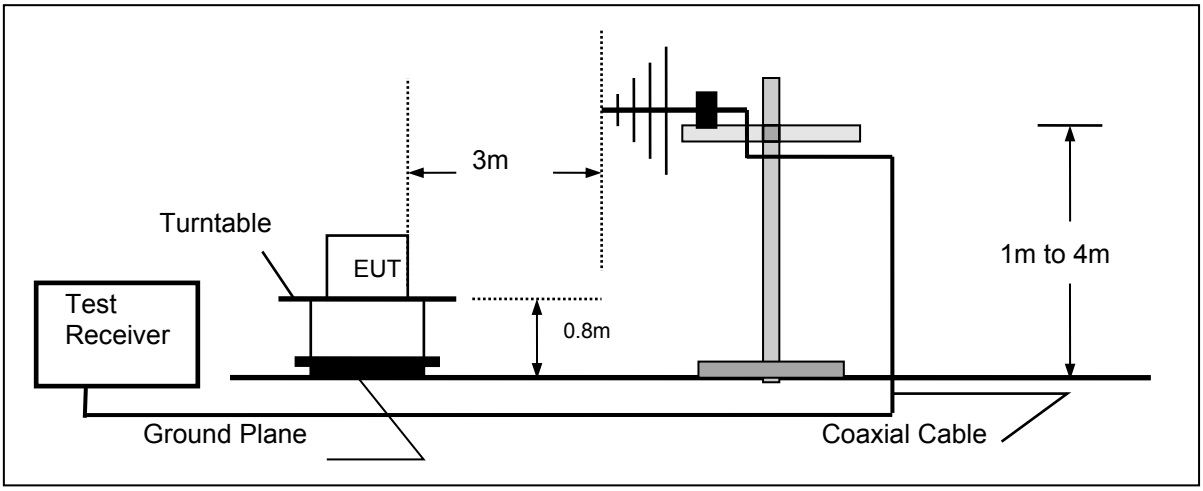
5.2. Radiated Emission

TEST CONFIGURATION

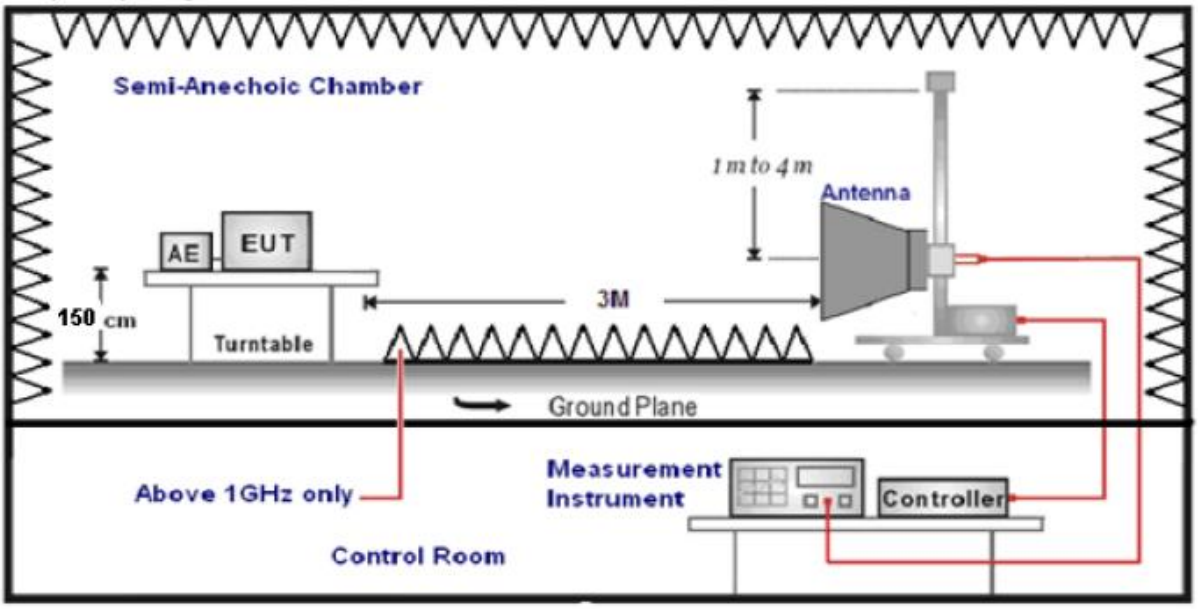
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 2480MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, 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)

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

Unwanted emissions that fall into restricted bands shall comply with the limits specified in RSS-Gen; and Unwanted emissions that do not fall within the restricted frequency bands shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

In addition to the provisions of 15.231(e) and RSS 210-A.1.4, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emission (microvolts/meter)
40.66-40.70	1,000	100
70-130	500	50
130-174	500 to 1,500[1]	50 to 150[1]
174-260	1,500	150
260-470	1,500 to 5,000[1]	150 to 500[1]
Above 470	5,000	500

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 260-470 MHz, μV/m at 3 meters = (41.6667 x f)-7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

Test Results (Fundamental 433.92MHz)

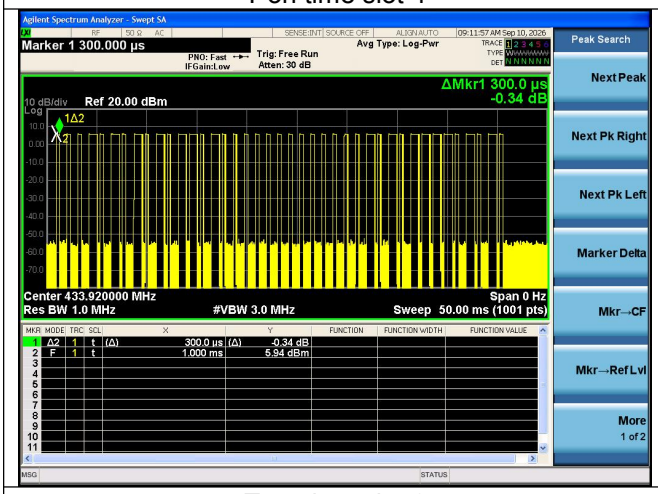
Frequency	Antenna	Reading	Correct Factor	Duty cycle Factor	Results	Limits	Det.
(MHz)	Pol.	(dBuV/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Mode
433.92	H	67.09	19.21	-	86.3	100.82	PK
433.92	H	-	-	-9.87	76.43	80.82	AV
433.92	V	68.22	19.21	-	87.43	100.82	PK
433.92	V	-	-	-9.87	77.56	80.82	AV

Remark:
1: Pulse Desensitization Correction Factor Pulse Width (PW)= 0.380ms
2/PW=2/0.380=5.26kHz
RBW(1000kHz)＞ 2/PW (5.26KHz) Therefore PDCF is not needed.

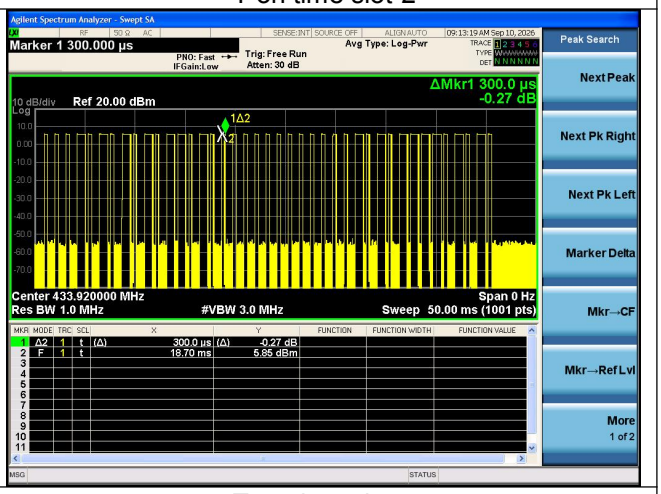
2: Duty Cycle Factor
Calculate Formula:
AV=PEAK +Duty Cycle Factor
Duty Cycle Factor=20log(Duty Cycle)
Duty Cycle= on time/ period

Test Data:
T on time=0.3ms*17+0.3ms*9+0.65ms*15=17.55ms
T period=54.7ms
Duty Cycle=32.08%
Duty Cycle Factor =20log(Duty Cycle)= -9.87

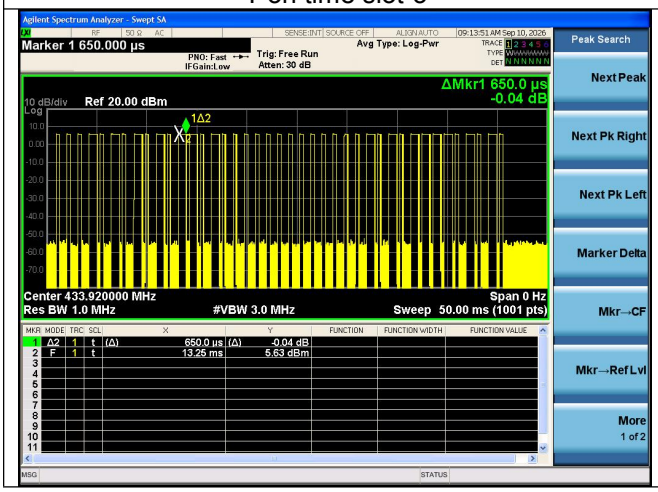
T on time slot-1



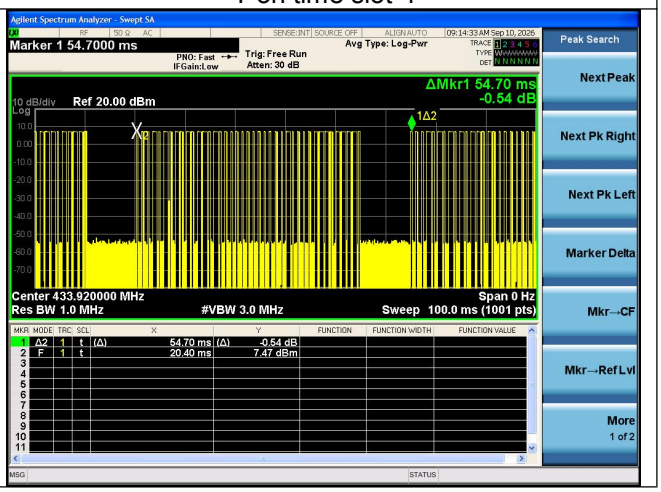
T on time slot-2



T on time slot-3



T on time slot-4



Test Results (Harmonics Emissions+Radiated Emissions Above 1G)

Frequency	Antenna	Reading	Cable Loss	Ant Factor	Amplifier	Duty cycle Factor	Results	Limits	Det.
(MHz)	Pol.	(dBuV/m)	(dB)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Mode
867.84	H	75.18	1.92	19.21	31.45	-	64.86	80.82	PK
867.84	H	-	-	-	-	-9.87	54.99	60.82	AV
867.84	V	74.99	1.92	19.21	31.45	-	64.67	80.82	PK
867.84	V	-	-	-	-	-9.87	54.8	60.82	AV
1301.76	H	58.86	2.38	19.21	32.45	-	48	74	PK
1301.76	H	-	-	-	-	-9.87	38.13	54	AV
1301.76	V	57.90	2.38	19.21	32.45	-	47.04	74	PK
1301.76	V	-	-	-	-	-9.87	37.17	51	AV

Remark:
1:Result = Reading + Cable Loss +Ant Factor –Amplifier + Duty cycle Factor

2: Pulse Desensitization Correction Factor Pulse Width (PW)= 0.380ms
2/PW=2/0.380=5.26kHz
RBW(1000kHz)＞ 2/PW (5.26KHz) Therefore PDCF is not needed.

3: Duty Cycle Factor
Calculate Formula:
AV=PEAK +Duty Cycle Factor
Duty Cycle Factor=20log(Duty Cycle)
Duty Cycle= on time/ period

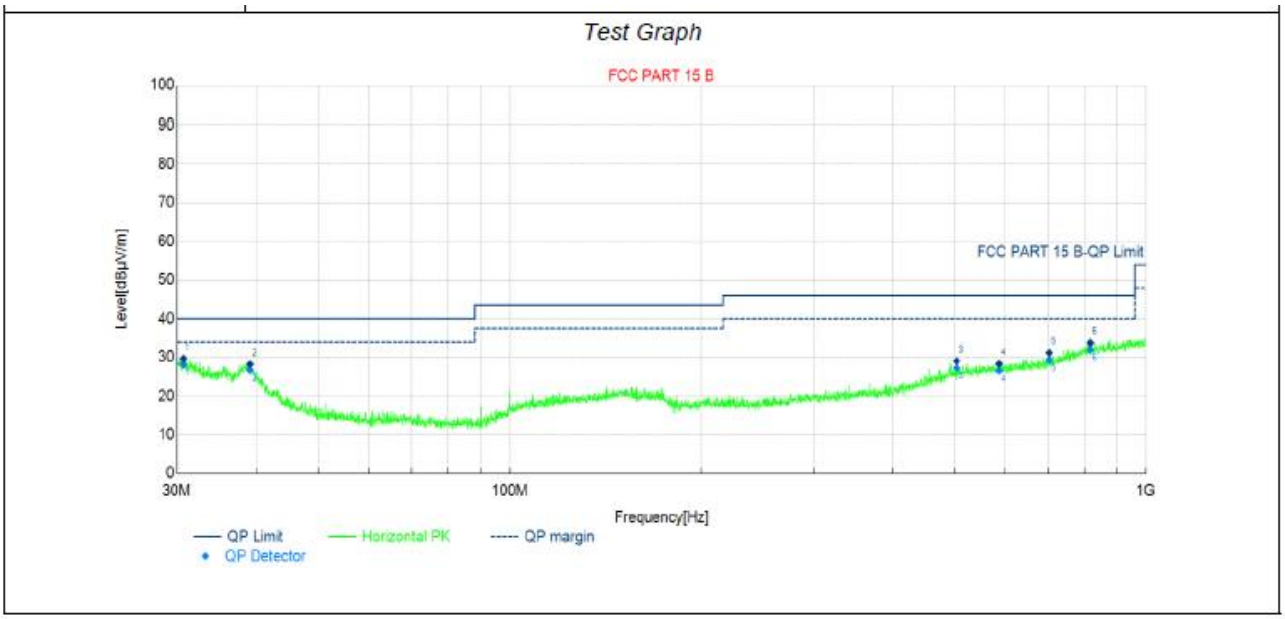
Test Data:
T on time=0.3ms*17+0.3ms*9+0.65ms*15=17.55ms
T period=54.7ms
Duty Cycle=32.08%
Duty Cycle Factor =20log(Duty Cycle)= -9.87

4: Only the worst data was recorded in this report.

5: The test results of 9kHz-30MHz and above 1260MHz~18000MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

For 30MHz-1GHz

Horizontal

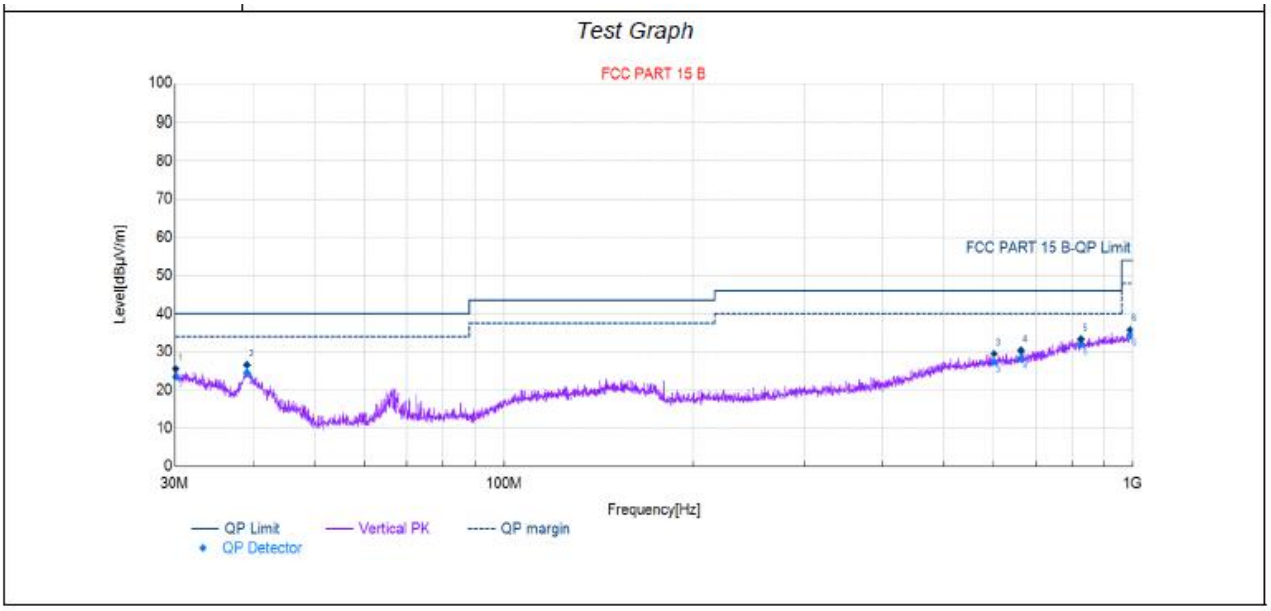


Final Data List								
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBµV/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Pol	Verdict
1	30.6646	25.12	3.08	28.20	40.00	11.80	Horizontal	PASS
2	39.0219	19.02	7.75	26.77	40.00	13.23	Horizontal	PASS
3	503.4670	22.74	4.56	27.30	46.00	18.70	Horizontal	PASS
4	586.9219	23.66	2.91	26.57	46.00	19.43	Horizontal	PASS
5	703.6709	25.20	4.17	29.37	46.00	16.63	Horizontal	PASS
6	816.7248	28.08	3.9	31.98	46.00	14.02	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

Vertical



Final Data List								
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBµV/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Pol	Verdict
1	30.0526	20.86	2.61	23.47	40.00	16.53	Vertical	PASS
2	39.0219	14.52	10	24.52	40.00	15.48	Vertical	PASS
3	600.9760	23.81	3.61	27.42	46.00	18.58	Vertical	PASS
4	663.5409	24.63	3.65	28.28	46.00	17.72	Vertical	PASS
5	826.0833	28.19	3.77	31.96	46.00	14.04	Vertical	PASS
6	989.5381	29.90	4.52	34.42	54.00	19.58	Vertical	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

5.3. 20dB Bandwidth

TEST CONFIGURATION

TEST PROCEDURE

The 20dB bandwidth and 99% bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

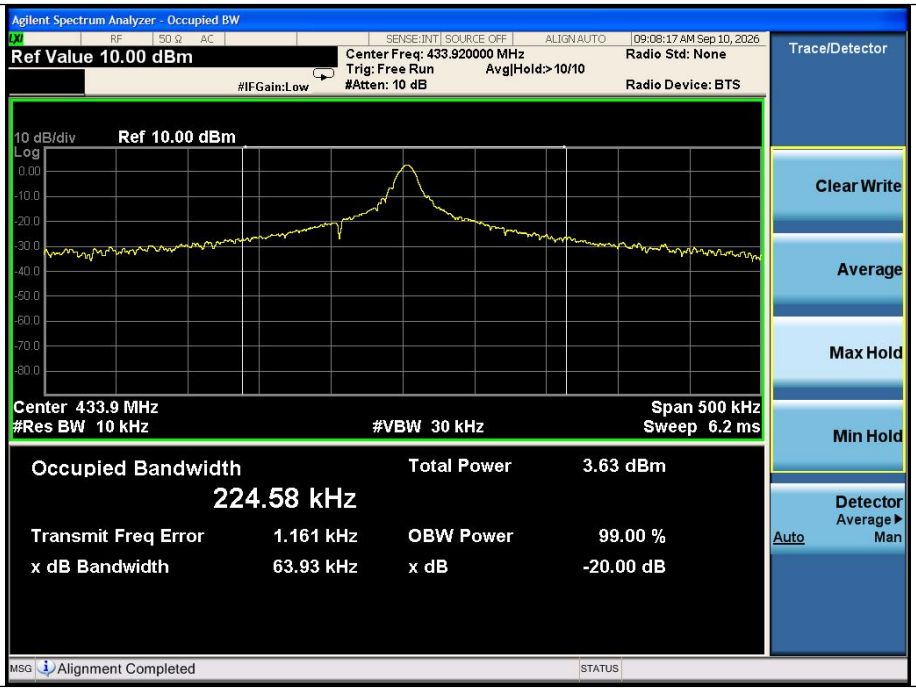
The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission

TEST RESULTS

Modulation	Channel Frequency (MHz)	99% OBW (KHz)	20dB bandwidth (KHz)	Limit (KHz)	Result
FSK	433.92	224.58	63.93	<1084.80 (0.25%*433.92=1084.8)	Pass

Test plot as follows:

FSK Modulation



5.4. Dwell Time Test

TEST CONFIGURATION

TEST PROCEDURE

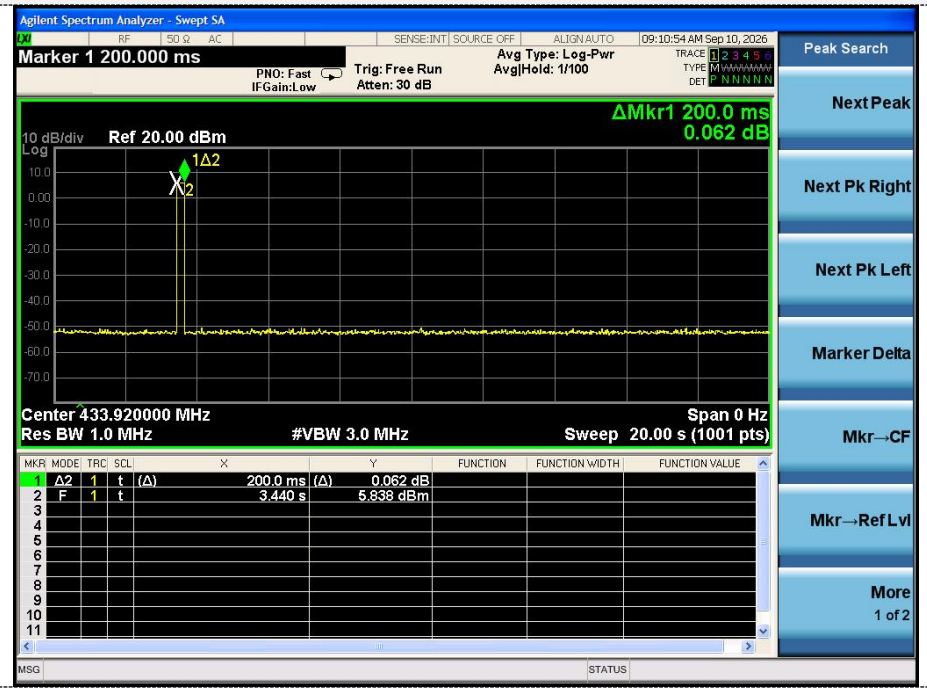
1. Place the EUT on the table and set it in continuously transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2: Set the spectrum analyzer as
RBW=1000kHz, VBW= 1000 kHz, Span= 0Hz, Sweep Time= 20 Seconds.
3: Record the Delta mark time.

TEST RESULTS

Test Mode	Transmitting time(s)	Limit(s)	Result
FSK mode	0.200	≤5	Pass

Test plot as follows:

Dwell Time



5.5. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR 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.

Refer to statement below for compliance

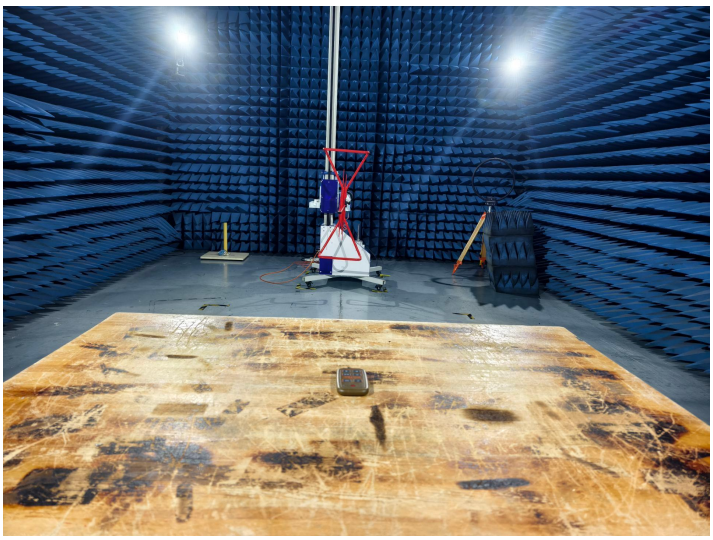
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

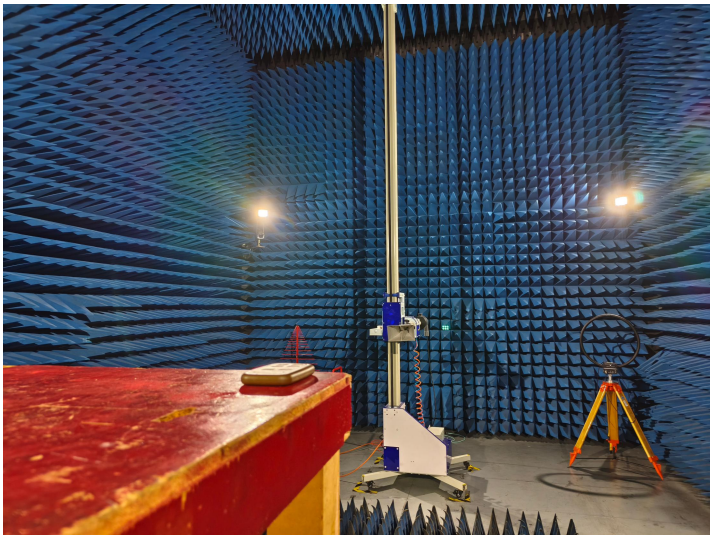
Antenna Connected Construction

The directional gains of antenna used for transmitting is 2dBi, and the antenna is Spring antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

Results: Compliance.

6. Test Setup Photos of the EUT





7. External and Internal Photos of the EUT

See related photo report.

.....End of Report.....