



FCC TEST REPORT

FCC ID:2BF3R-JD-S1A

Report Number..... : ZHT-240416009E-1

Date of Test..... : Apr. 16, 2024 to Apr. 23, 2024

Date of issue..... : Apr. 23, 2024

Test Result : PASS

Testing Laboratory..... : Guangdong Zhonghan Testing Technology Co., Ltd

Address : Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Applicant's name : SHEN ZHEN JAVDUN ZHINENGTECH CO,LTD

Address : Room 103, BLD 19, No.A3, No.4 Industrial Zone, Matian Street, Guangming District, Shenzhen, China

Manufacturer's name : SHEN ZHEN JAVDUN ZHINENGTECH CO,LTD

Address : Room 103, BLD 19, No.A3, No.4 Industrial Zone, Matian Street, Guangming District, Shenzhen, China

Standard..... : FCC CFR Title 47 Part 15 Subpart C Section 15.225
ANSI C63.10:2013

This device described above has been tested by ZHT, 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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Product name..... : SMART LOCK

Trademark : /

Model/Type reference..... : JD-S1A,
JD-S1B, JD-S5, JD-S6, JD-S7, JD-S8, JD-S9, JD-D06, JD-D07,
JD-D08, JD-D09, JD-M6, JD-M7, JD-M8, JD-M9, JD-RV1, JD-RV2

Model Difference..... : JD-S1A, is tested model, other models are derivative models .The models are identical in circuit and product material, Only the model name and color differ, So the test data of JD-S1A, can represent the remaining models.

Ratings..... : **Input:**
USB-C: 6V~7.4V 300mA (1.8W)
The DC 6 V is powered through an AA battery



Testing procedure and testing location:

Testing Laboratory.....: Guangdong Zhonghan Testing Technology Co., Ltd

Address.....: Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Tested by (name + signature).....: Kevin Yang

Reviewer (name + signature).....: Baret Wu

Approved (name + signature).....: Levi Lee





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1.VERSION

Report No.	Version	Description	Approved
ZHT-23081014E	Rev.01	Initial issue of report	Apr. 23, 2024



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.225) , Subpart C			
Standard Section	Test Item	Judgment	Remark
FCC part 15.203	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.225(a)(b)(c)(d)	Fundamental &Radiated Spurious Emission Measurement	PASS	
FCC part 15.215	Channel Bandwidth	PASS	
FCC part 15.225(e)	Frequency Tolerance	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.
Add. : Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District
Shenzhen, Guangdong, China

FCC Registration Number:255941
Designation Number: CN0325
IC Registered No.: 29832
CAB identifier: CN0143

2.2 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	$\pm 1.38\text{dB}$
2	RF power conducted	$\pm 0.16\text{dB}$
3	Spurious emissions conducted	$\pm 0.21\text{dB}$
4	All emissions radiated(9k-30MHz)	$\pm 4.68\text{dB}$
5	All emissions radiated(<1G)	$\pm 4.68\text{dB}$
6	All emissions radiated(>1G)	$\pm 4.89\text{dB}$
7	Temperature	$\pm 0.5^{\circ}\text{C}$
8	Humidity	$\pm 2\%$
9	Occupied Bandwidth	$\pm 4.96\text{dB}$



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	SMART LOCK
Test Model No.:	JD-S1A
Hardware Version:	V1.0
Software Version:	V1.0
Sample(s) Status:	Engineer sample
Operation Frequency:	13.56MHz
Channel Numbers:	1
Channel Separation:	N/A
Modulation Type:	ASK
Antenna Type:	PCB antenna
Antenna gain:	0dBi



3.2 DESCRIPTION OF TEST MODES

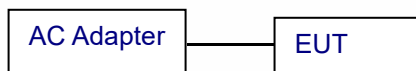
Transmitting mode	Keep the EUT in continuously transmitting NFC mode
Remark: EUT use new battery during the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	Mfr/Brand	Model/Type No.	Series No.	Note
1	AC Adapter	HUAWEI	HW-050450C00	N/A	AE

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (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.



Radiation Test equipment

Item	Equipment	Manufacturer	Model	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	May 12, 2023	May 11, 2024
2	Loop antenna	EMCI	LAP600	Mar 12, 2023	Mar 11, 2024
3	Amplifier	Schwarzbeck	BBV 9743 B	May 12, 2023	May 11, 2024
4	Amplifier	Schwarzbeck	BBV 9718 B	May 12, 2023	May 11, 2024
5	Bilog Antenna	Schwarzbeck	VULB9162	May 17, 2023	May 16, 2024
6	Horn Antenna	Schwarzbeck	BBHA9120D	May 17, 2023	May 16, 2024
7	Horn Antenna	A.H.SYSTEMS	SAS574	May 12, 2023	May 11, 2024
8	Amplifier	AEROFLEX	100KHz-40GHz	May 12, 2023	May 11, 2024
9	Spectrum Analyzer	R&S	FSV40	May 12, 2023	May 11, 2024
10	966 Anechoic Chamber	EMToni	9m6m6m	Nov. 25, 2021	Nov. 24, 2024
11	Spectrum Analyzer	KEYSIGHT	N9020A	May 12, 2023	May 11, 2024
12	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	May 12, 2023	May 11, 2024
13	Single Generator	Agilent	N5182A	May 12, 2023	May 11, 2024
14	Power Sensor	MWRFTest	MW100-RFCB	May 12, 2023	May 11, 2024
15	Audio analyzer	R&S	UPL	May 12, 2023	May 11, 2024
16	Single Generator	R&S	SMB100A	May 12, 2023	May 11, 2024
17	Power Amplifier Shielding Room	EMToni	2m3m3m	Nov. 25, 2021	Nov. 24, 2024



Conduction Test equipment

Equipment	Manufacturer	Model	Last Cal.	Next Cal.
Receiver	R&S	ESCI	May 12, 2023	May 11, 2024
LISN	R&S	ENV216	May 12, 2023	May 11, 2024
ISN CAT 6	Schwarzbeck	NTFM 8158	May 12, 2023	May 11, 2024
ISN CAT 5	Schwarzbeck	CAT5 8158	May 12, 2023	May 11, 2024
Capacitive Voltage Probe	Schwarzbeck	CVP 9222 C	May 12, 2023	May 11, 2024
Current Transformer Clamp	Schwarzbeck	SW 9605	May 12, 2023	May 11, 2024
CE Shielding Room	EMToni	9m4m3m	Nov. 25, 2021	Nov. 24, 2024





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

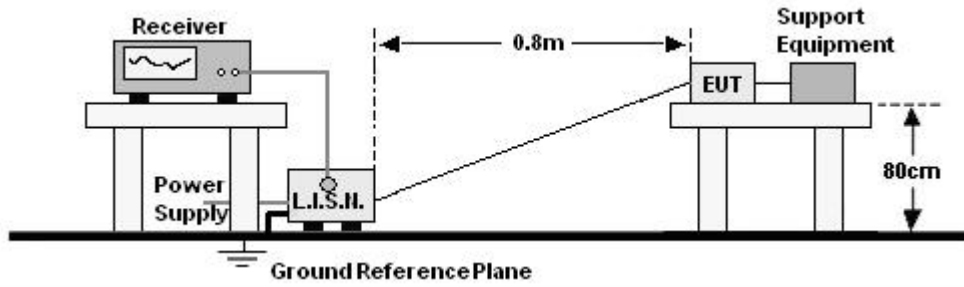
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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 40 cm long.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



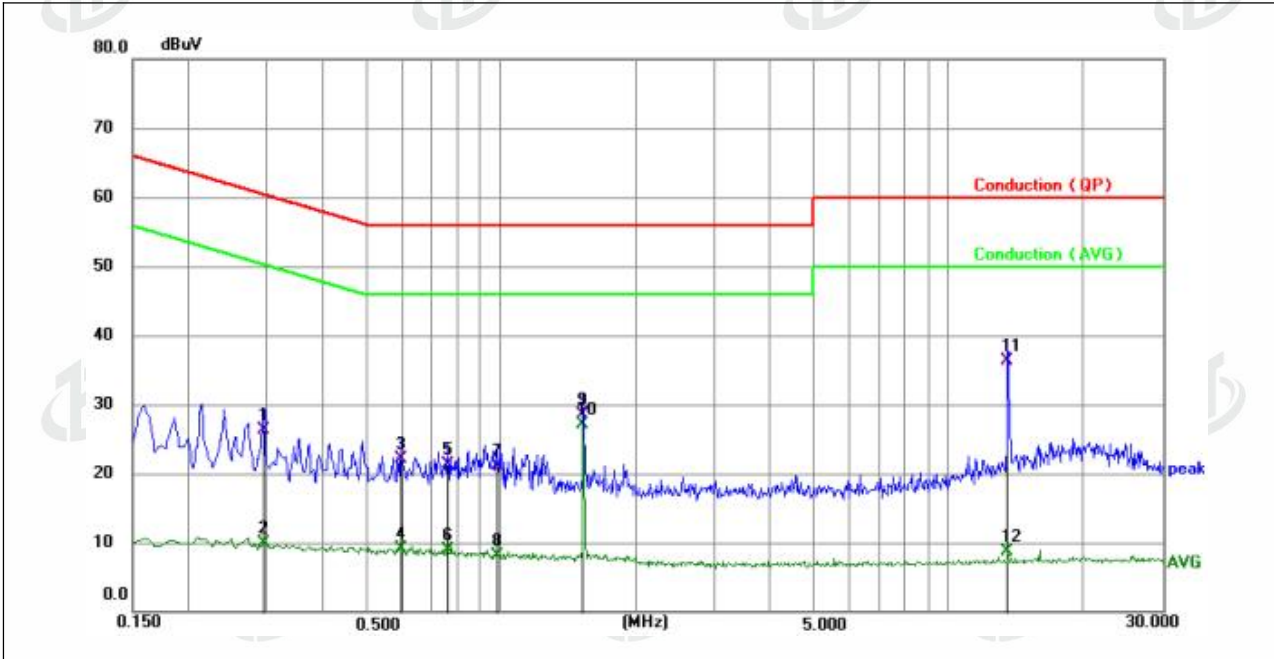
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.6 TEST RESULTS

Temperature:	25.1°C	Relative Humidity :	50%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120 V/ 60 Hz		



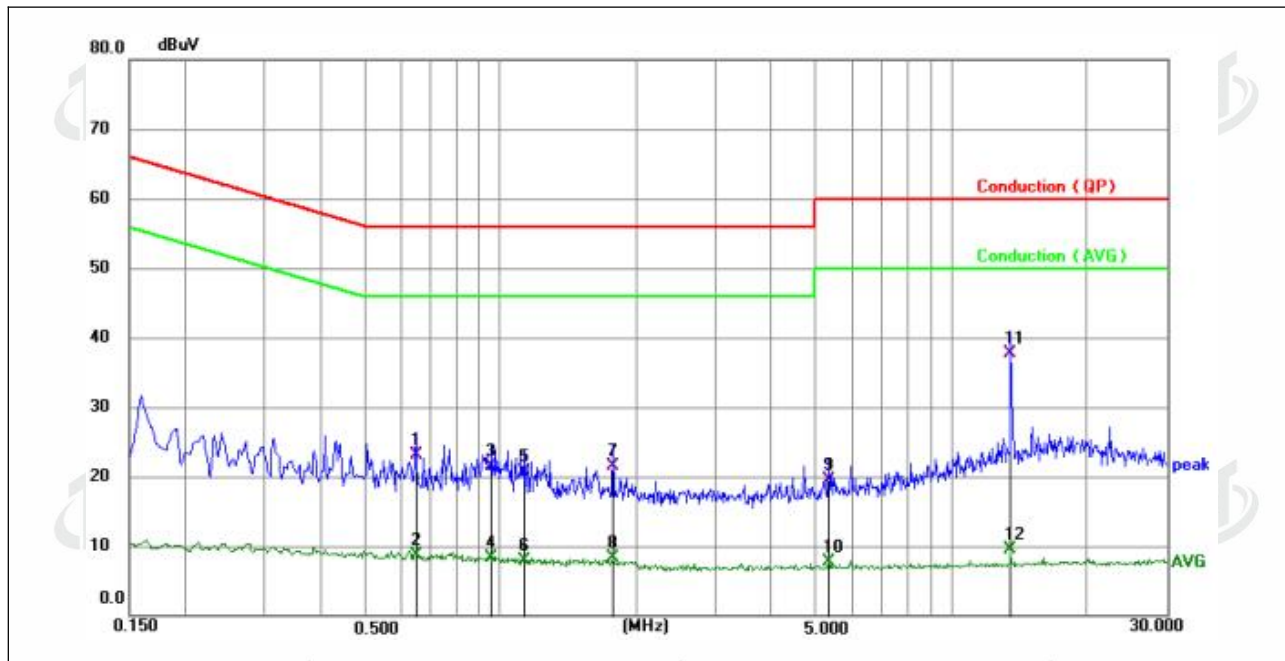
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2940	16.40	9.95	26.35	60.41	-34.06	QP
2	0.2940	-0.07	9.95	9.88	50.41	-40.53	AVG
3	0.5955	12.09	10.03	22.12	56.00	-33.88	QP
4	0.5955	-0.91	10.03	9.12	46.00	-36.88	AVG
5	0.7620	11.25	10.04	21.29	56.00	-34.71	QP
6	0.7620	-1.18	10.04	8.86	46.00	-37.14	AVG
7	0.9825	11.11	10.06	21.17	56.00	-34.83	QP
8	0.9825	-1.97	10.06	8.09	46.00	-37.91	AVG
9	1.5270	18.41	10.06	28.47	56.00	-27.53	QP
10 *	1.5270	17.02	10.06	27.08	46.00	-18.92	AVG
11	13.5374	26.23	10.09	36.32	60.00	-23.68	QP
12	13.5374	-1.33	10.09	8.76	50.00	-41.24	AVG

Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission
- 3.Mesurement Level = Reading level + Correct Factor



Temperature:	25.1°C	Relative Humidity :	50%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120 V/ 60 Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.6495	13.03	10.03	23.06	56.00	-32.94	QP
2	0.6495	-1.39	10.03	8.64	46.00	-37.36	AVG
3	0.9555	11.47	10.06	21.53	56.00	-34.47	QP
4	0.9555	-1.80	10.06	8.26	46.00	-37.74	AVG
5	1.1310	10.57	10.06	20.63	56.00	-35.37	QP
6	1.1310	-2.17	10.06	7.89	46.00	-38.11	AVG
7	1.7790	11.37	10.06	21.43	56.00	-34.57	QP
8	1.7790	-1.85	10.06	8.21	46.00	-37.79	AVG
9	5.3385	9.49	10.11	19.60	60.00	-40.40	QP
10	5.3385	-2.31	10.11	7.80	50.00	-42.20	AVG
11 *	13.5420	27.71	10.09	37.80	60.00	-22.20	QP
12	13.5420	-0.64	10.09	9.45	50.00	-40.55	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor



Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 1GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Note: According to § 15.209, the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.					

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micровolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Field Strength of Fundamental Limit:

- The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters. 15,848 microvolts/meter at 3 meters=124 dBuV/m.
- Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. 334 microvolts/meter at 3 meters=90.47 dBuV/m.

4.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, 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. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. 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.

Note:

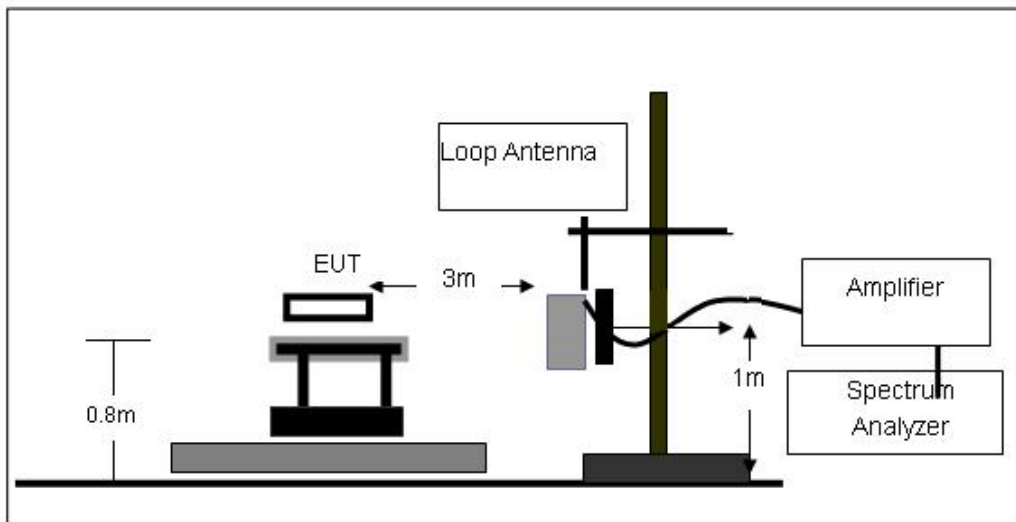
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

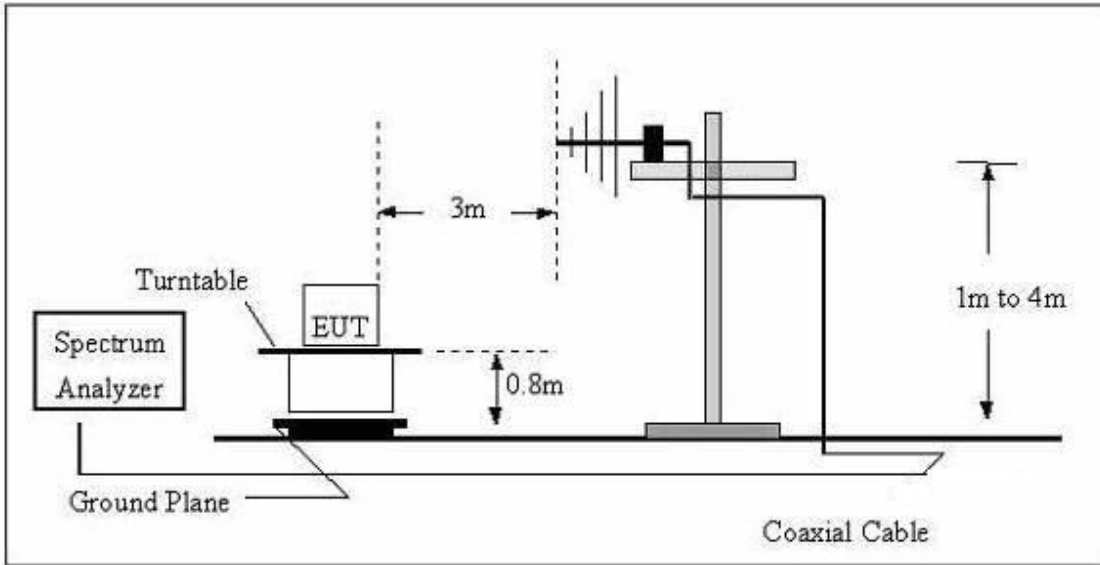
No deviation

4.2.4 TEST SETUP

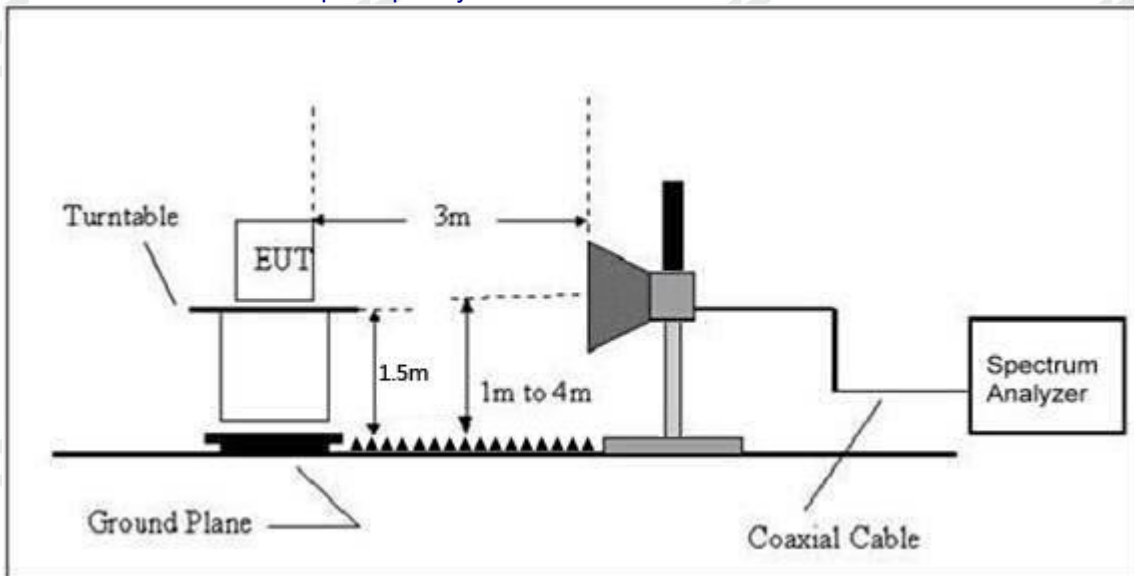
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.2.6 TEST RESULTS

Field Strength of Fundamental

Frequency (MHz)	Reading (dBuV/m)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar (H/V)	Detector
13.462	54.21	15.82	70.03	90.47	-20.44	H	QP
13.462	56.45	15.82	72.27	90.47	-18.2	V	QP
13.551	58.52	15.61	74.13	90.47	-16.34	H	QP
13.551	57.42	15.61	73.03	90.47	-17.44	V	QP
13.56	89.25	12.33	101.58	124	-22.42	H	Peak
13.56	92.14	12.33	104.47	124	-19.53	V	Peak
13.564	59.15	12.33	71.48	90.47	-18.99	H	QP
13.564	56.72	12.33	69.05	90.47	-21.42	V	QP
13.652	53.25	15.82	69.07	90.47	-21.4	H	QP
13.652	52.48	15.82	68.3	90.47	-22.17	V	QP



Between 9KHz – 30 MHz

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80
Limit dBuV/m @3m = Limit dBuV/m @30m + 40
9 kHz~30 MHz

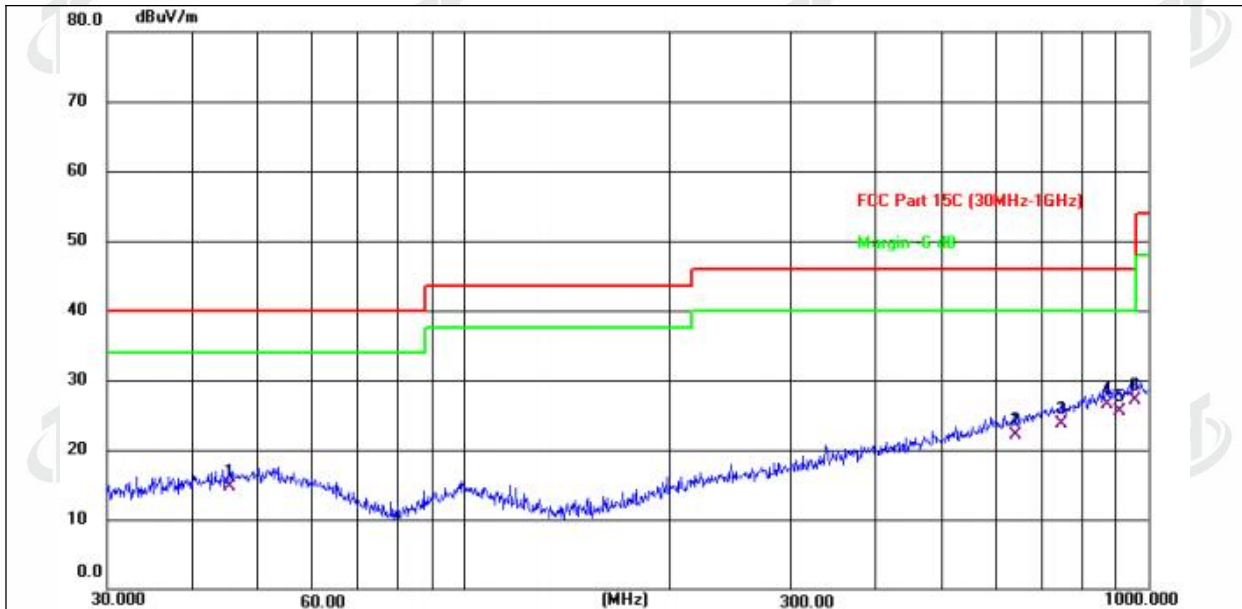
Frequency (kHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
40.12	56.21	15.15	71.36	115.76	-44.4	AVG
85.21	52.45	15.2	67.65	108.75	-41.1	AVG
301.18	54.28	16.33	70.61	97.94	-27.33	AVG
1258.53	32.45	16.87	49.32	65.4	-16.08	QP
2423.28	27.15	17.62	44.77	69.54	-24.77	QP
4819.11	24.12	18.32	42.44	69.54	-27.1	QP
6313.34	20.81	18.64	39.45	69.54	-30.09	QP
8365.51	18.48	19.26	37.74	69.54	-31.8	QP
12558.38	18.24	19.32	37.56	69.54	-31.98	QP

Note:
Pre-scan in the all of mode, the worst case in of was recorded.
Factor = antenna factor + cable loss – pre-amplifier.
Margin = Emission Level- Limit.



Between 30MHz – 1GHz

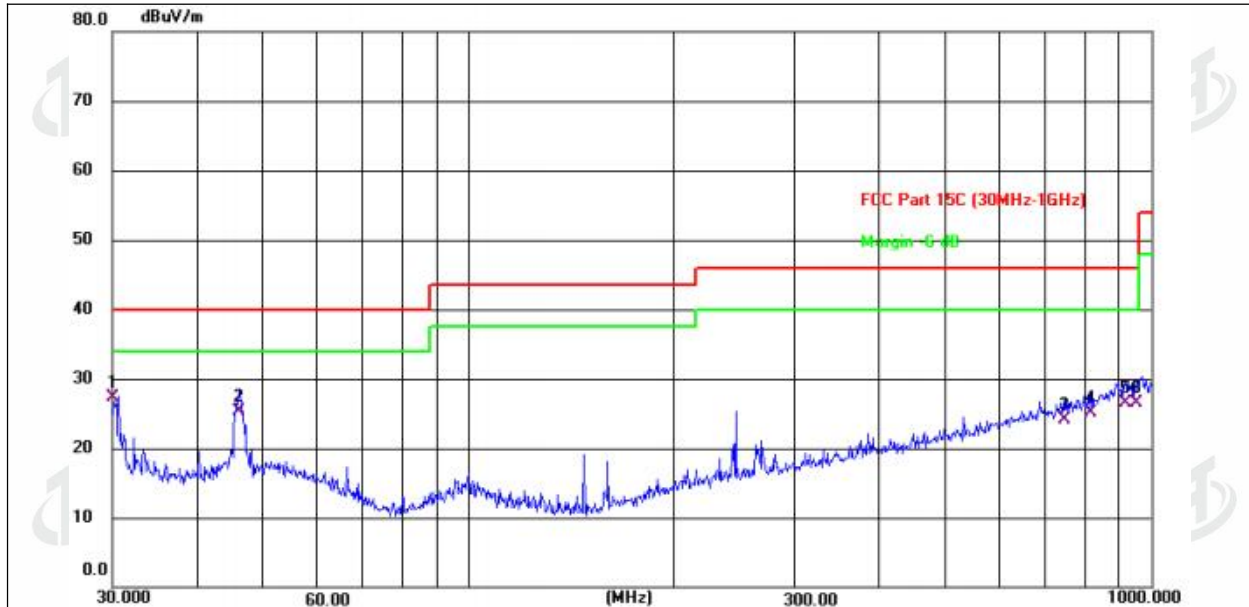
Temperature :	25.1 °C	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Horizontal
Test Voltage :	DC 6V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	45.3755	23.91	-9.18	14.73	40.00	-25.27	QP
2	638.3686	23.68	-1.64	22.04	46.00	-23.96	QP
3	747.4825	23.82	-0.02	23.80	46.00	-22.20	QP
4	872.1832	24.67	1.77	26.44	46.00	-19.56	QP
5	906.4824	23.26	2.26	25.52	46.00	-20.48	QP
6 *	955.4381	24.35	2.70	27.05	46.00	-18.95	QP



Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Vertical
Test Voltage :	DC 6V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.0000	38.80	-11.45	27.35	40.00	-12.65	QP
2	46.0164	34.49	-9.12	25.37	40.00	-14.63	QP
3	744.8661	24.09	-0.06	24.03	46.00	-21.97	QP
4	815.9678	24.12	0.92	25.04	46.00	-20.96	QP
5	916.0687	24.23	2.33	26.56	46.00	-19.44	QP
6	952.0937	23.84	2.66	26.50	46.00	-19.50	QP

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



5. FREQUENCY TOLERANCE

Test Requirement:	FCC Part15 C Section 15.225(e)
Test Method:	ANSI C63.10:2013

5.1 LIMIT

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+ 50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Limit: $\pm 0.01\%$ of 13.56MHz= ± 1356 Hz

5.2 TEST PROCEDURE

1. Set RBW = 10 kHz.
2. Set the video bandwidth (VBW) \geq RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. The transmitter output (antenna port) was connected to the spectrum analyzer.

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP



5.5 TEST RESULT

Test Conditions			Frequency Deviation		Limit
Frequency MHz	Power(Vdc)	Temperature (°C)	Measured Freq. (MHz)	Deviation (%)	
13.56	Normal	-20	13.56151	0.000111	$\pm 0.01\%$
	Normal	-10	13.56624	0.000460	
	Normal	0	13.56412	0.000304	
	Normal	10	13.56251	0.000185	
	Normal	20	13.56414	0.000305	
	Normal	30	13.56145	0.000107	
	Normal	40	13.56148	0.000109	
	Normal	50	13.56944	0.000696	
	Normal*85%	20	13.56851	0.000628	
	Normal *115%	20	13.56657	0.000485	



6. CHANNEL BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.215
Test Method:	ANSI C63.10: 2013

6.1 APPLIED PROCEDURES / LIMIT

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator’s antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be deomonstrated by measuring the radiated emissions.

6.2 TEST PROCEDURE

1. Set RBW = 3 kHz.
2. Set the video bandwidth (VBW) ≥RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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 20 dB relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

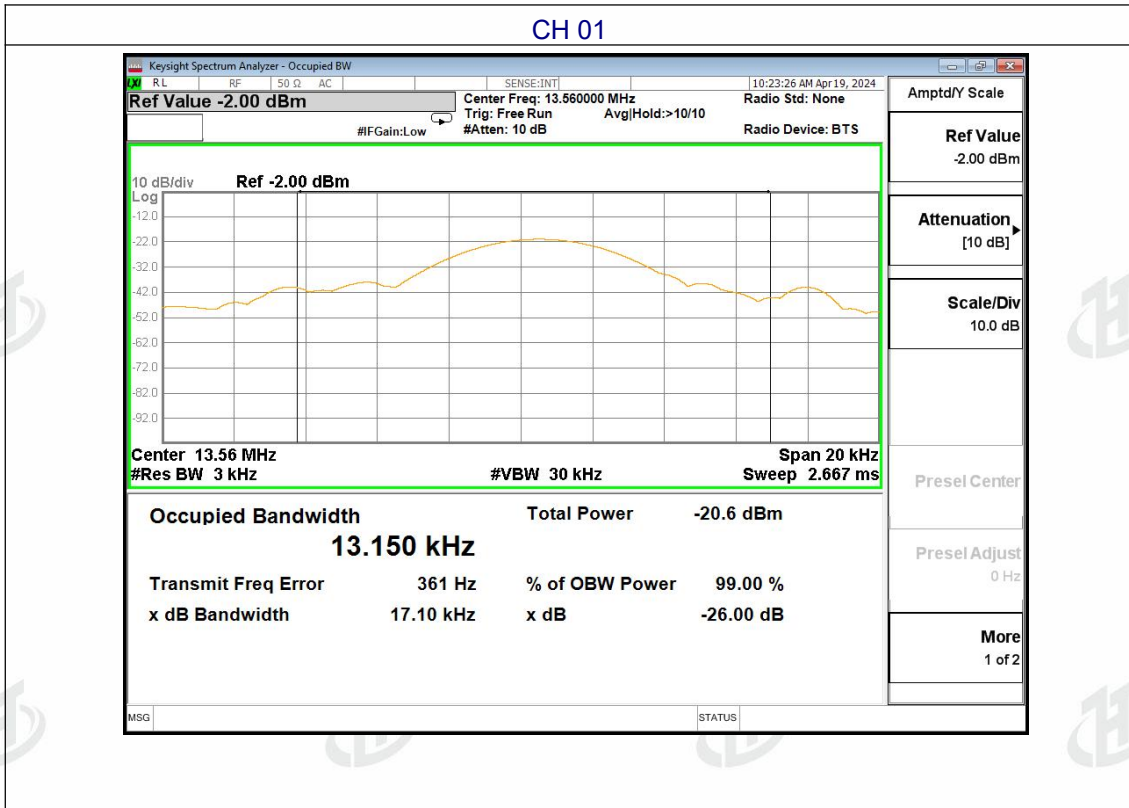
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



6.6 TEST RESULT

Temperature :	25.8°C	Relative Humidity :	52%
Test Mode :	ASK	Test Voltage :	DC 6V

Test channel	20dB Channel Bandwidth (KHz)	Result
1	17.1	Pass





Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: 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.	
EUT Antenna:	
The antennas is PCB antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details	





8. TEST SETUP PHOTO

Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

***** END OF REPORT *****