

Page 1 of 22

FCC Test Report

Applicant : Secukey Technology Co., Ltd.

Address Floor 5, Building 13, Longbi Industrial Park, Longgang District, Shenzhen, China

Product Name : Access Control

Report Date

Jan. 10, 2024



Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com





Report No.: 18220WC30265002

FCC ID: 2AJWY-XK6-RX

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TEST REPORT

Applicant

Secukey Technology Co., Ltd.

Secukey Technology Co., Ltd.

Manufacturer

Product Name

Access Control

Test Model No.

XK6-RX

Reference Model No.

XK5-RX, X5-RX, X6-RX, S5-X, S6-X, S9-X, S9, CR9-R, CR9-RX, CR9, CK9-R EM, CK9-R MF, CK9-R, CK9-RX, CK9, CR4, CR5, CR6, CH4, CH5, CH6, CF4, CF5, CF6, CHD4, CHD5, CHD6, CFD4, CFD5, CFD6, CK4, CK5, CK6, SK13, SK14, H4-KEY

Trade Mark

In mut 40 40\/

Secukey

Rating(s)

Input: 12-18V---

Test Standard(s):FCC Part15 Subpart C, Paragraph 15.209Test Method(s):ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Date of Test

Prepared By

Dec. 12, 2023 Dec. 12, 2023~Jan. 10, 2024

Lano FILA

(Ella Liang)

Idward pan

Approved & Authorized Signer

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

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Revision History

Rep	ort Version	Description	Issued Date
K Anc	R00	Original Issue.	Jan. 10, 2024
otek	Anbotek P	nborek Anborek Anborek Anborek Anborek Anborek	Anboren Anbo
nbotek	Anboten	Anbotek Anbotek Anbotek Anbotek Anbo	ter Anbotek A

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Code:AB-RF-05-b





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1. General Information

1.1. Client Information

4	Applicant	:	Secukey Technology Co., Ltd.
ੇ	Address	:	Floor 5, Building 13, Longbi Industrial Park, Longgang District, Shenzhen, China
ŝ	Manufacturer	:	Secukey Technology Co., Ltd.
	Address	:	Floor 5, Building 13, Longbi Industrial Park, Longgang District, Shenzhen, China
	Factory	:	Secukey Technology Co., Ltd.
	Address	:	Floor 5, Building 13, Longbi Industrial Park, Longgang District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	: Access Control
Test Model No.	: XK6-RX
Reference Model No.	 XK5-RX, X5-RX, X6-RX, S5-X, S6-X, S9-X, S9, CR9-R, CR9-RX, CR9, CK9-R EM, CK9-R MF, CK9-R, CK9-RX, CK9, CR4, CR5, CR6, CH4, CH5, CH6, CF4, CF5, CF6, CHD4, CHD5, CHD6, CFD4, CFD5, CFD6, CK4, CK5, CK6, SK13, SK14, H4-KEY (Note: All samples are the same except the model number and appearance color, so we prepare "XK6-RX" for test only.)
Trade Mark	: Secukey
Test Power Supply	DC 12V from Adapter input AC 120V/60Hz
Test Sample No.	: 1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	: N/A Anborek Anborek Anborek Anborek Anborek Anborek A
RF Specification	
Operation Frequency	: 125kHz
Number of Channel	· 1 Channel
Modulation Type	ASK Model Model Model Model
Antenna Type	: Inductive loop coil Antenna
Antenna Gain(Peak)	: OdBi

description, please refer to the manufacturer's specifications or the User's Manual.

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1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Adapter	Model: MDY-11-EX
An hotek Anboth	Input: 100-240V-0.7A, 50-60Hz
And	USB-A output: 5V= 3A, 9V= 3A, 12V= 2.25A, 20V= 1.35A, 11V= 3A

1.4. Description of Test Configuration

2nl	Channel	Freq. (kHz)								
	01	125								
6										

Note:

1. During the test, the EUT was keeping continuous transmission.

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Code:AB-RF-05-b

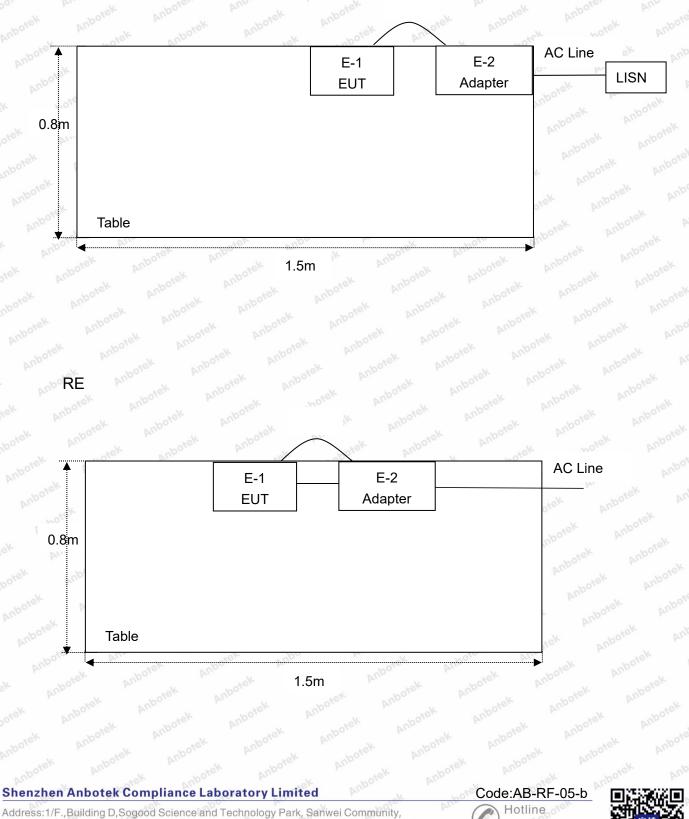




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1.5. Description Of Test Setup



Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com



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1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 12, 2023	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2023	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 12, 2023	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 12, 2023	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G -45	SKET-PA-002	Oct. 12, 2023	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Yea
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Oct. 12, 2023	1 Year
. 11.	Pre-amplifier	SONOMA	310N	186860	Oct. 12, 2023	1 Yea
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Yea
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 16, 2023	1 Yea
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	May. 26, 2023	1 Year

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1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The measurement uncertainty and decision risk ev	valuated according to AB/WI-RF-F-032.

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

1.8. Description of Test Facility

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

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, 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. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited. 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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2. Summary of Test Results

Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
FCC Part 15, Paragraph15.203	Antenna Requirement	PASS

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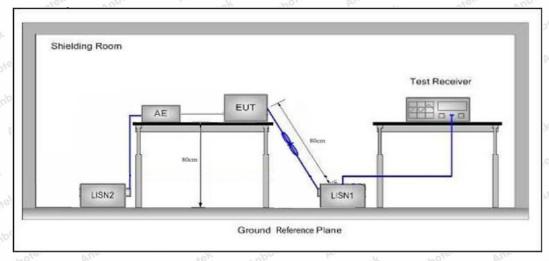
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3. Conducted Emission Test

3.1. Test Standard and Limit

	Maximum RF Line Voltage (dBuV)			
	Frequency	Quasi-peak Level	Average Level	
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	otek.
	500kHz~5MHz	56	Anto 46	wo th
	5MHz~30MHz	60	50	"UP

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages.

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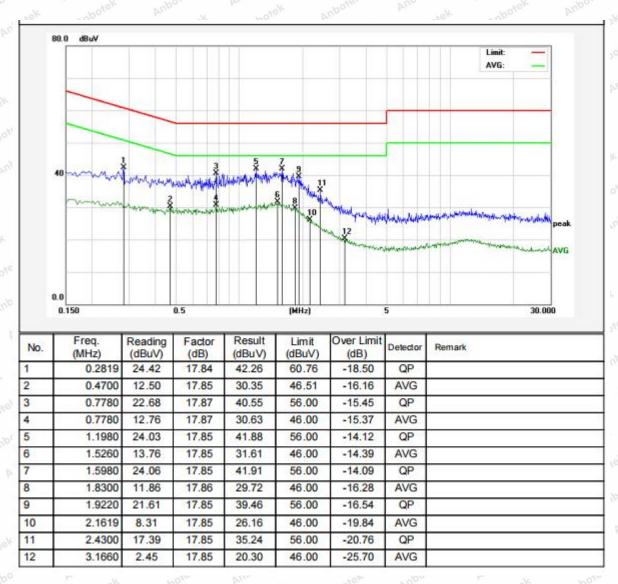
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com





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)V/60Hz



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400-003-0500

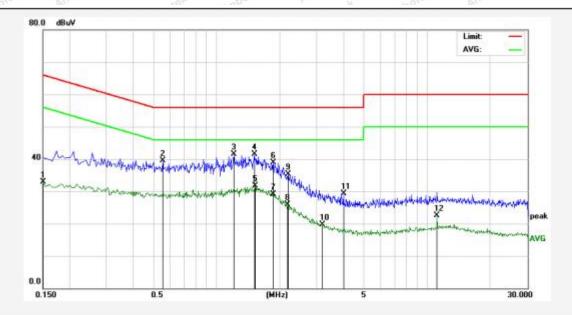




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Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	125kHz
Test Specification:	DC 12V from Adapter input AC 120V/60Hz
Comment:	Neutral Line
Temp.(℃)/Hum.(%RH):	22.1℃/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	15.00	17.82	32.82	55.99	-23.17	AVG	
2	0.5580	21.58	17.86	39.44	56.00	-16.56	QP	
3	1.2100	23.59	17.85	41.44	56.00	-14.56	QP	
4	1.5140	23.58	17.85	41.43	56.00	-14.57	QP	
5	1.5300	13.85	17.85	31.70	46.00	-14.30	AVG	
6	1.8620	20.99	17.85	38.84	56.00	-17.16	QP	2
7	1.8620	11.31	17.85	29.16	46.00	-16.84	AVG	
8	2.1700	8.01	17.85	25.86	46.00	-20.14	AVG	~
9	2.1900	17.38	17.85	35.23	56.00	-20.77	QP	5
10	3.1900	1.86	17.85	19.71	46.00	-26.29	AVG	
11	4.0180	11.40	17.85	29.25	56.00	-26.75	QP	
12	11.1780	4.41	18.01	22.42	50.00	-27.58	AVG	

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Code:AB-RF-05-b Hotline





4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

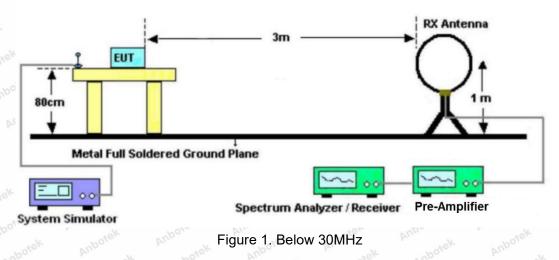
Test Standard	FCC Part15 C Section 15	5.209 and 15.205			stek phot
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Anbor rek	pi. botek	300
	0.490MHz-1.705MHz	24000/F(kHz)	anbo ate	K - nbotek	30
	1.705MHz-30MHz	30	otek _ Anbo	tek - unbot	30
Test Limit	30MHz~88MHz	100	40.0 M	Quasi-peak	jotek 3 Anbor
	88MHz~216MHz	150	43.5	Quasi-peak	unbotek 3 Ant
	216MHz~960MHz	200	46.0	Quasi-peak	Anto 3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
		500	54.0	Average	* 3 ¹⁰⁰¹⁰¹
	Above 1000MHz	Anto botek	74.0 M	Peak	otek 3 Anbote

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

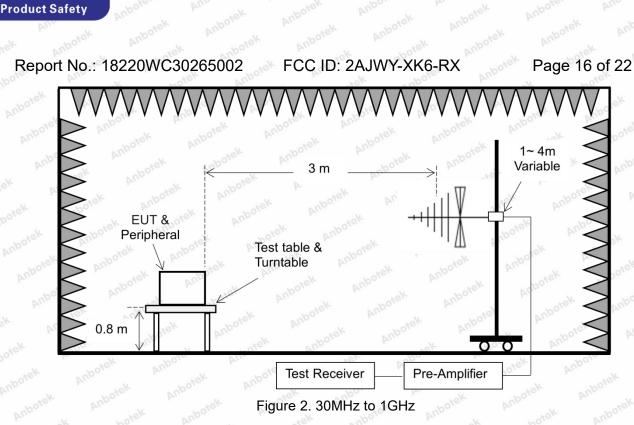
4.2. Test Setup



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4.3. Test Procedure

Anbotek

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as: RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as: RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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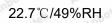


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Test Results (9KHz~0.15MHz)

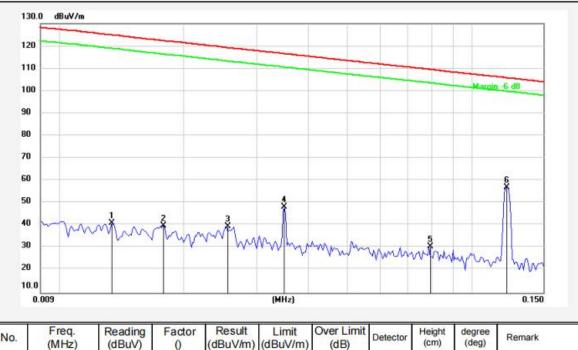
- Test Mode:
- Power Source:
- DC 12V from Adapter input AC 120V/60Hz

- Polarization:
- Temp.(℃)/Hum.(%RH):



ТΧ

X



No.	(MHz)	(dBuV)	0	(dBuV/m)	(dBuV/m)	(dB)	Detector	(cm)	(deg)	Remark
1	0.0134	20.92	20.16	41.08	124.87	-83.79	QP			
2	0.0179	19.66	20.18	39.84	122.37	-82.53	QP			
3	0.0255	19.13	20.39	39.52	119.32	-79.80	QP			
4	0.0352	27.67	20.48	48.15	116.53	-68.38	QP			
5	0.0791	10.13	20.36	30.49	109.54	-79.05	QP			
6	0.1250	36.51	20.34	56.85	105.78	-48.93	QP			
	125.7	1	1.523					0.1	125.7	

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Test Results (0.15MHz~30MHz)

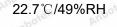
Test Mode:

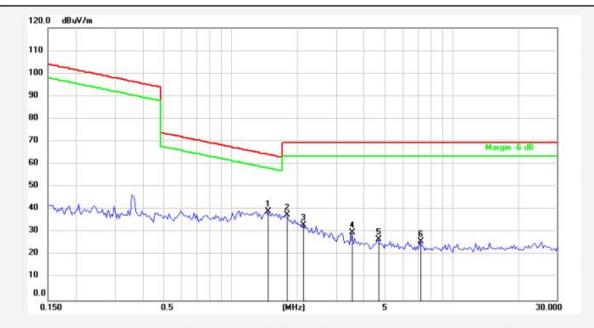
Power Source:

DC 12V from Adapter input AC 120V/60Hz

Polarization:

Temp.(℃)/Hum.(%RH):





No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1.4640	18.90	20.27	39.17	64.32	-25.15	QP			
2	1.7858	17.48	20.27	37.75	69.50	-31.75	QP			
3	2.1495	12.83	20.28	33.11	69.50	-36.39	QP		<u> </u>	
4	3.5092	9.48	20.34	29.82	69.50	-39.68	QP			
5	4.6346	6.47	20.41	26.88	69.50	-42.62	QP			
6	7.1754	5.40	20.46	25.86	69.50	-43.64	QP		- 13	

Remark: According to FCC PART 15.209 (d), the emission limits for 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.

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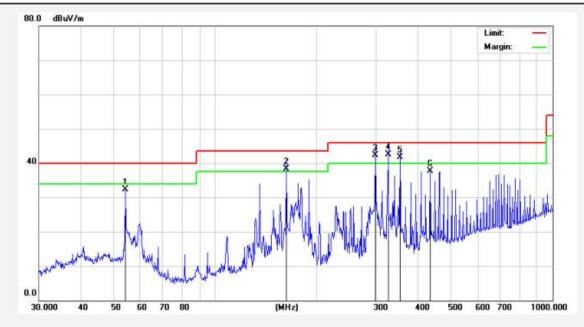
ТΧ

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Test Results (30~1000MHz)

- Test Mode:
- Power Source:
- Polarization:

- DC 12V from Adapter input AC 120V/60Hz Horizontal 22.7 °C/49%RH
- Temp.(℃)/Hum.(%RH):



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	54.2610	49.63	-17.35	32.28	40.00	-7.72	QP			
2	162.6106	62.21	-23.92	38.29	43.50	-5.21	QP			
3	298.2681	59.57	-17.31	42.26	46.00	-3.74	QP			
4	325.5958	59.08	-16.57	42.51	46.00	-3.49	QP			
5	352.9433	57.70	-16.01	41.69	46.00	-4.31	QP			5) 5)
6	434.0651	53.48	-15.70	37.78	46.00	-8.22	QP			

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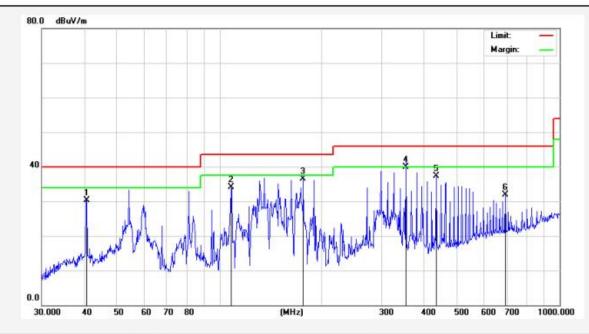
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Test Results (30~1000MHz)

- Test Mode:
- Power Source:
- Polarization:
- DC 12V from Adapter input AC 120V/60Hz Vertical
- Temp.(℃)/Hum.(%RH):

22.7℃/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark	
1	40.7014	44.85	-14.63	30.22	40.00	-9.78	QP				
2	108.2667	51.92	-17.91	34.01	43.50	-9.49	QP				
3	176.2684	57.21	-20.79	36.42	43.50	-7.08	QP				
4	352.9433	54.83	-14.97	39.86	46.00	-6.14	QP				
5	434.0649	51.32	-13.93	37.39	<u>46.00</u>	-8.61	QP	î 👘			
6	691.9867	41.93	-10.03	31.90	46.00	-14.10	QP				

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5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 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

5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

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Code:AB-RF-05-b





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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

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