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TEST REPORT

Report No.: CQASZ20250300613E

Applicant: Shenzhen Kevi Ecommerce co.,Ltd

Address of Applicant: B703, building B, robot industrial park, Hangcheng Avenue, Nanchang community,

Xixiang street, Bao'an District, Shenzhen

Equipment Under Test (EUT):

EUT Name: Alarm Clock

Model No.: RS1, RS1G, RS1C, RS1W, RS1B, DERS1, DERS1W, DERS1C

Test Model No.: RS1

Brand Name: HOUSBAY, DOUMOSH, BUFFBEE

FCC ID: 2A4TD-RS1

Standards: 47 CFR Part 15, Subpart B, Class B

Date of Receipt: 2025-3-21

Date of Test: 2025-3-21 to 2025-3-25

Date of Issue: 2025-3-26
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above.

Tested By:

(Joe Wang)

Reviewed By:

(Timo Lei)

Approved By:

(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.





1 Version

Revision History of Report

Report No.	Version	Description	Issue Date
CQASZ20250300613E	Rev.01	Initial report	2025-3-26



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2 Test Summary

Test Item	Test Requirement	Test method	Result
Radiated Emission	47 CFR Part 15B	ANSI C63.4-2014	PASS
Conducted Emission (150KHz to 30MHz)	47 CFR Part 15B	ANSI C63.4-2014	PASS

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement Range (MHz)
Below 1.705	30
1.705 to 108	1000
108 to 500	2000
500 to 1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower

Remark:

The tested sample(s) and the sample information are provided by the client.

The highest frequency of the internal sources of the EUT is below 108 MHz.



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4 General Information

4.1 Client Information

Applicant:	Shenzhen Kevi Ecommerce co.,Ltd		
Address of Applicant:	B703, building B, robot industrial park, Hangcheng Avenue, Nanchang		
	community, Xixiang street, Bao'an District, Shenzhen		
Manufacturer:	DONGGUAN SHUNLANG ELECTRONICS.,LTD		
Address of Manufacturer:	ROOM 402,BUILDING 6,NO.27 HUAILIN RD,HUAIDE COMMUNITY,		
	HUMEN TOWNDONGGUAN GUANGDONG 523900 China		
Factory:	DONGGUAN SHUNLANG ELECTRONICS.,LTD		
	ROOM 402,BUILDING 6,NO.27 HUAILIN RD,HUAIDE COMMUNITY,		
Address of Factory:	HUMEN TOWNDONGGUAN GUANGDONG 523900 China		

4.2 General Description of EUT

Product Name:	Alarm Clock
Model No.:	RS1, RS1G, RS1C, RS1W, RS1B, DERS1, DERS1W, DERS1C
Test Model No.:	RS1
Brand Name:	HOUSBAY, DOUMOSH, BUFFBEE
Power Supply:	Power by Adapter INPUT:100-240V-50/60Hz OUTPUT:5.0V 1.0A
	or battery 4.5V (AAA*3)
Test Mode:	
Normal working	Keep the EUT in Normal working



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4.3 Test Environment and Mode

Operating Environment:				
Radiated Emission	Radiated Emission			
Temperature:	25.5 °C			
Humidity:	53 % RH			
Atmospheric Pressure:	100.9 kpa			
Conducted Emission				
Temperature:	24.3 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	100.9 kpa			

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No. Certification		Supplied by
1	/	/ /		/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	1	/

4.5 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Other Information Requested by the Customer

None.





4.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1		3.74dB (9kHz to 150kHz)	
	Conduction emission	3.34dB (150kHz to 30MHz)	
2		5.12dB (Below 1GHz)	
2	Radiated emission	4.60dB (Above 1GHz)	
3	Temperature	0.8°C	
4	Humidity	2.0%	



5 Equipment List

Conducted Emissions (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No.	Cal Date	Cal Due Date	
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1	
LISN	R&S	ENV216	CQA-003	2024/9/2	2025/9/1	
Coaxial cable						
(9KHz~300MHz)	CQA	N/A	C021	2024/9/2	2025/9/1	

Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No.	Cal Date	Cal Due Date
Loop antenna	SCHWARZBECK	FMZB 1516	CQA-060	2023/9/8	2026/9/7
Horn Antennaz	R&S	BBHA 9170	CQA-088	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Bilog Antenna	R&S	HL562	CQA-011	2023/9/7	2026/9/6
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2	2025/9/1
Preamplifier	MITEQ	PA5001	CQA-036	2024/9/2	2025/9/1
Coaxial cable (1GHz~40GHz)	CQA	N/A	C007	2024/9/2	2025/9/1
Coaxial cable (9KHz~1GHz)	CQA	N/A	C013	2024/9/2	2025/9/1

Test Software:

Test Site	Manufacturer	Software brand	
Radiated Emissions test software	Audix	e 3	
Conducted Emissions test software	Audix	e3	



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6 Test results and Measurement Data

6.1 Conducted Emissions

Test Requirement: 47 CFR Part 15B
Test Method: ANSI C63.4
Test frequency range: 150kHz to 30MHz

Limit:

Frequency range (MHz)	Limit (dBµV)		
	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.

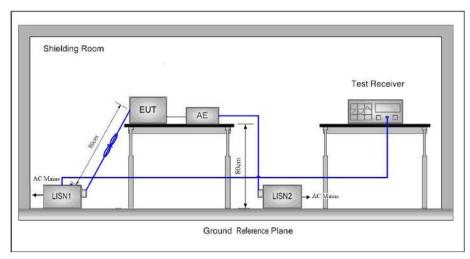
Test Procedure:

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.



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Test Setup:



Instruments Used: Refer to section 5 for details

Test Mode: Normal working

Test Results: Pass

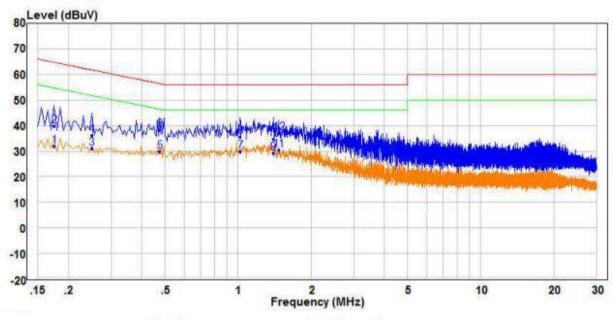


Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



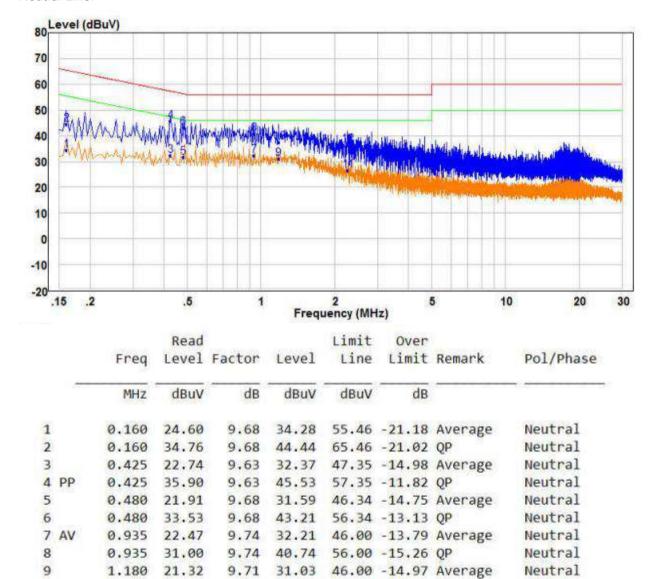
	Freq	Read Level	Factor	Level	Limit Line		Remark	Pol/Phase
-	MHZ	dBuV	dB	dBuV	dBuV	dB	-	
1	0.175	22.27	9.65	31.92	54.72	-22.80	Average	Line
2	0.175	30.15	9.65	39.80	64.72	-24.92	QP	Line
3	0.250	21.39	9.55	30.94	51.76	-20.82	Average	Line
4	0.250	26.63	9.55	36.18	61.76	-25.58	QP	Line
5	0.475	20.22	9.68	29.90	46.43	-16.53	Average	Line
6 QP	0.475	28.78	9.68	38.46	56.43	-17.97	QP	Line
7	1.020	20.19	9.75	29.94	46.00	-16.06	Average	Line
8	1.020	25.81	9.75	35.56	56.00	-20.44	QP	Line
9	1.395	18.65	10.63	29.28	46.00	-16.72	Average	Line
10	1.395	24.18	10.63	34.81	56.00	-21.19	QP	Line
11 PP	1.470	19.73	10.78	30.51	46.00	-15.49	Average	Line
12	1.470	26.25	10.78	37.03	56.00	-18.97	QP	Line

Neutral

Neutral

Neutral

Neutral Line:



Notes:

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11

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- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

1.180 27.83

2.265 16.72

2.265 26.95

9.71 37.54 56.00 -18.46 QP

9.75 36.70 56.00 -19.30 QP

9.75 26.47 46.00 -19.53 Average



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6.2 Radiated Emission

Test Requirement: 47 CFR Part 15B
Test Method: ANSI C63.4

Test site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver setup:

Limit:

				,	
Frequency	Detector		RBW	VBW	Remark
30MHz-1GHz	Quasi-peak		100kHz	300kHz	Quasi-peak Value
Frequency		Limit (dBµV/m @3m)		/m @3m)	Remark
30MHz-88MHz		40.0)	Quasi-peak Value
88MHz-216MHz		43.5		5	Quasi-peak Value
216MHz-960MHz			46.0		Quasi-peak Value
960MHz-1GHz			54.0		Quasi-peak Value
88MHz-216MHz 216MHz-960MHz			43.5 46.0	5	Quasi-peak Val

Test Procedure:

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height 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.
- d. 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 rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



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Test Setup:

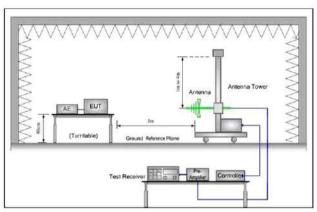


Figure 1. 30MHz to 1GHz

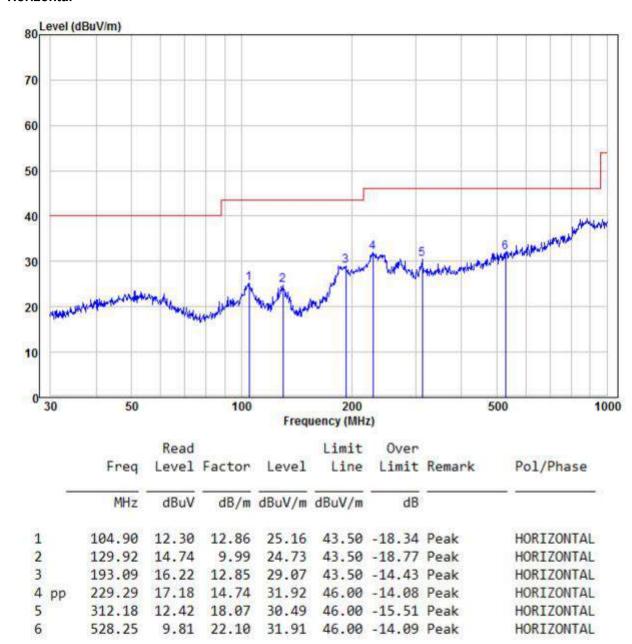
Instruments Used: Refer to section 5 for details

Test Mode: Normal working

Test Results: Pass

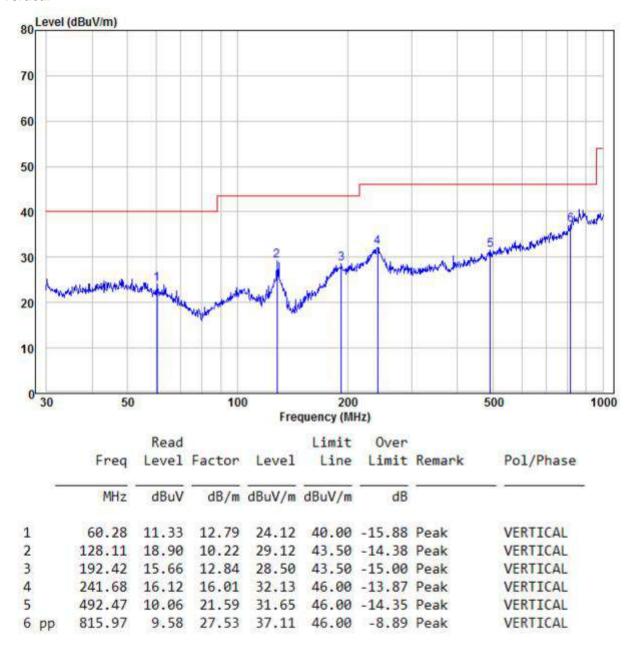


Below 1GHz Horizontal



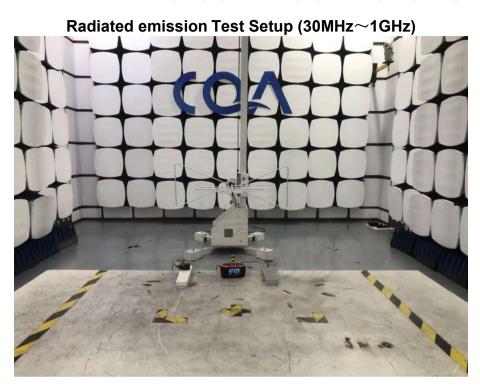


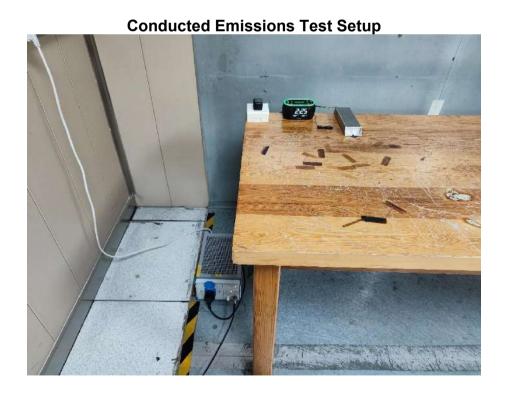
Vertical





APPENDIX 1 PHOTOGRAPHS OF TEST SETUP







APPENDIX 2 PHOTOGRAPHS OF EUT





















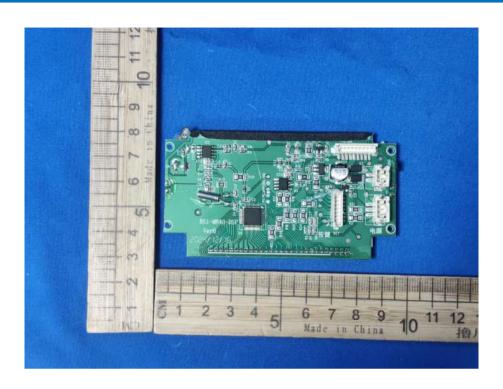


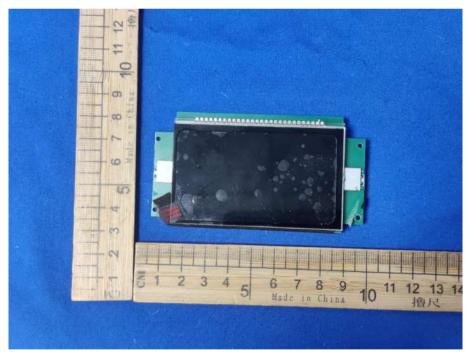










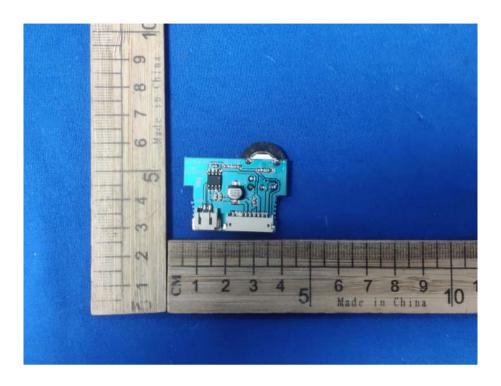


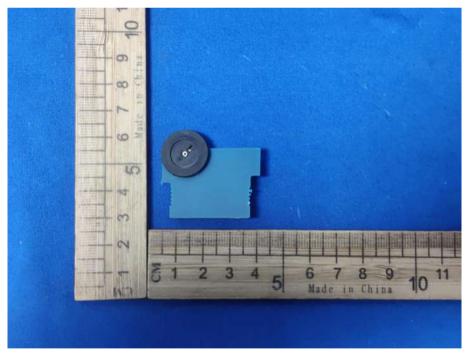












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