TEST REPORT

Application No.:	SZCR2308002812AT
Applicant:	D.A.K. INDUSTRIAL COMPANY LTD.
Address of Applicant:	Flat 6-8, 1F International Plaza, 20 Sheung Yuet Road, Kowloon Bay, Kowloon, HongKong China
Manufacturer:	D.A.K. INDUSTRIAL COMPANY LIMITED
Address of Manufacturer:	Tiantou village, Folong Industry Zone, Shatian Town, Huiyang District, Huizhou City, Guangdong Province, China.
Factory:	D.A.K. INDUSTRIAL COMPANY LIMITED
Address of Factory:	Tiantou village, Folong Industry Zone, Shatian Town, Huiyang District, Huizhou City, Guangdong Province, China.
Equipment Under Test (EUT):	
EUT Name:	LED SKULL DECOR
Model No.:	24DK00010
FCC ID:	2BCWK-24DK00010
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2023-08-30
Date of Test:	2023-09-01
Date of Issue:	2023-09-08
Test Result:	**Pass***

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

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		*2023-09-08*		*Original*

Authorized for issue by:				
		Leo Li **Leo Li/Project Engineer**		
		Eric Fu **Eric Fu/Reviewer**		

通标标准技术服务有限公司深圳分公司
检验检测专用章
Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	15.109(a);Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4:2014	15.109(g);Class B	Pass

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3 Contents

Page

1 Cover Page 1

2 Test Summary 3

3 Contents 4

4 General Information 5

4.1 Details of E.U.T. 5
4.2 Description of Support Units 5
4.3 Measurement Uncertainty 5
4.4 Test Location 6
4.5 Test Facility 6
4.6 Deviation from Standards 6
4.7 Abnormalities from Standard Conditions 6

5 Equipment List 7

6 Emission Test Results 8

6.1 Radiated Emissions (30MHz-1GHz) 8
6.1.1 E.U.T. Operation 8
6.1.2 Test Mode Description 8
6.1.3 Test Setup Diagram 9
6.1.4 Measurement Procedure and Data 9
6.2 Radiated Emissions (Above 1GHz) 12
6.2.1 E.U.T. Operation 12
6.2.2 Test Mode Description 12
6.2.3 Test Setup Diagram 12
6.2.4 Measurement Procedure and Data 12

7 Test Setup Photo 15

8 EUT Constructional Details (EUT Photos) 15

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4 General Information

4.1 Details of E.U.T.

Power supply:	4.5V DC (1.5Vx3"AA" Size Batteries)
Internal source:	More than 108MHz

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions (30MHz-1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06

Radiated Emissions (Above 1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22

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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014
Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dBμV/m (At 10m)	dBμV/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		

6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1000 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normal working_Keep the EUT working normally.

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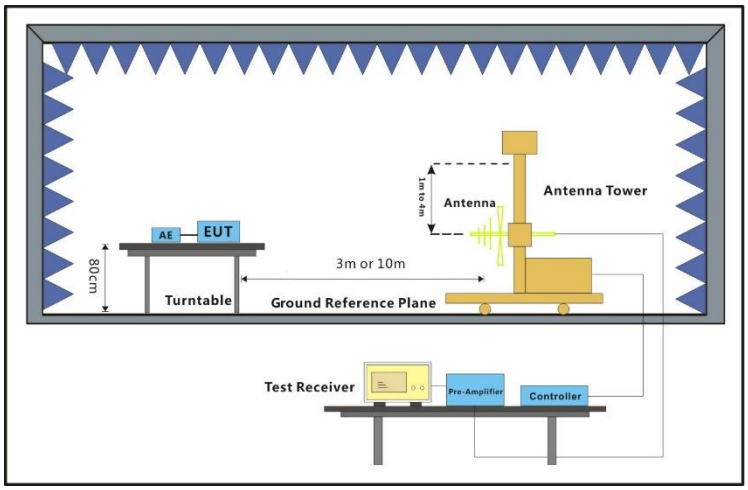
6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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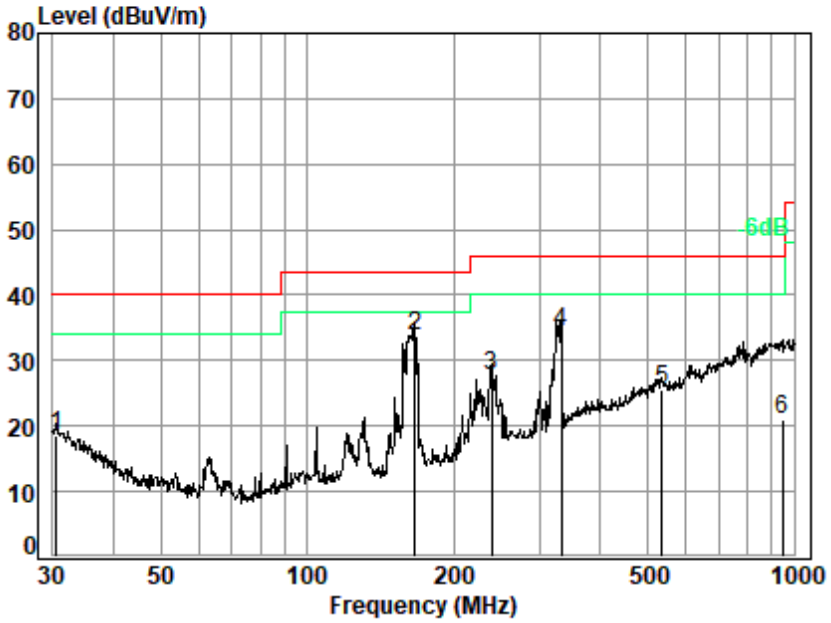
Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 02812AT
Test Mode: 00

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.53	21.13	0.63	27.23	23.96	18.49	40.00	-21.51	QP
2 q	166.07	13.81	1.50	26.74	45.05	33.62	43.50	-9.88	QP
3	239.15	17.78	1.86	26.44	34.44	27.64	46.00	-18.36	QP
4	332.52	19.19	2.24	26.30	39.19	34.32	46.00	-11.68	QP
5	535.71	24.33	2.92	26.91	25.06	25.40	46.00	-20.60	QP
6	945.44	28.69	4.13	25.72	13.94	21.04	46.00	-24.96	QP

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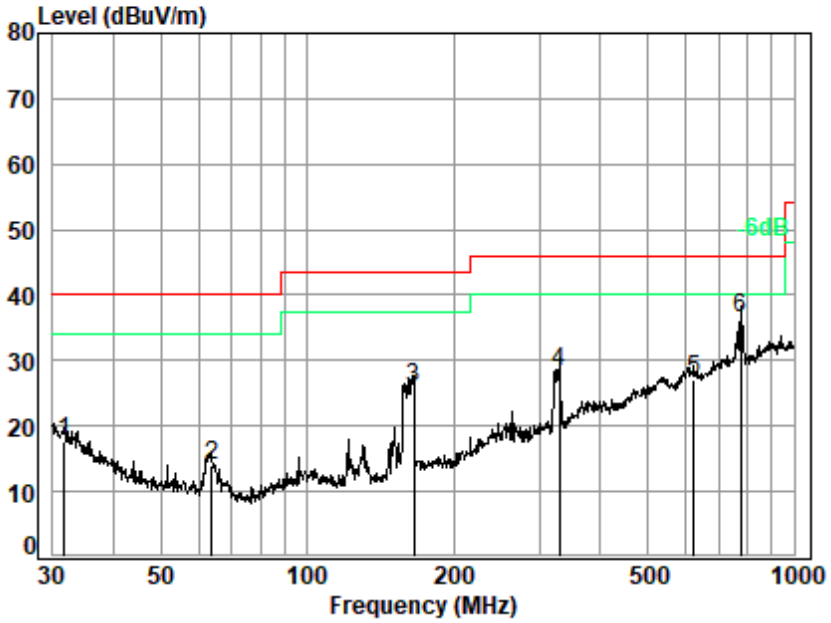
Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 02812AT
Test Mode: 00

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.73	20.38	0.64	27.23	23.99	17.78	40.00	-22.22	QP
2	63.54	10.80	0.88	27.12	29.36	13.92	40.00	-26.08	QP
3	165.49	13.79	1.50	26.74	37.17	25.72	43.50	-17.78	QP
4	329.04	19.08	2.22	26.29	33.42	28.43	46.00	-17.57	QP
5	622.89	25.61	3.19	27.01	25.36	27.15	46.00	-18.85	QP
6 q	776.88	26.71	3.61	26.39	32.45	36.38	46.00	-9.62	QP

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6.2 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014
Measurement Distance: 3m

Limit:

Above 1GHz	74(dBμV/m) peak, 54(dBμV/m) average at 3m distance
	83.54(dBμV/m) peak, 63.54(dBμV/m) average at 1m distance
Detector:	Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 40GHz

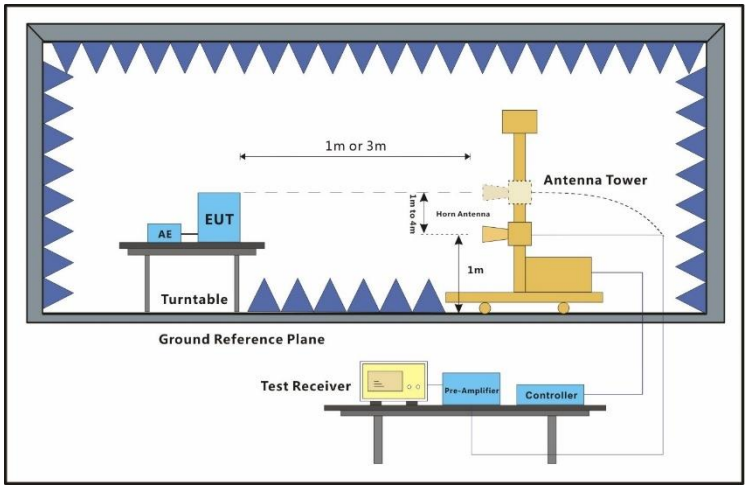
6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 53.1 % RH Atmospheric Pressure: 1000 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normal working_Keep the EUT working normally.

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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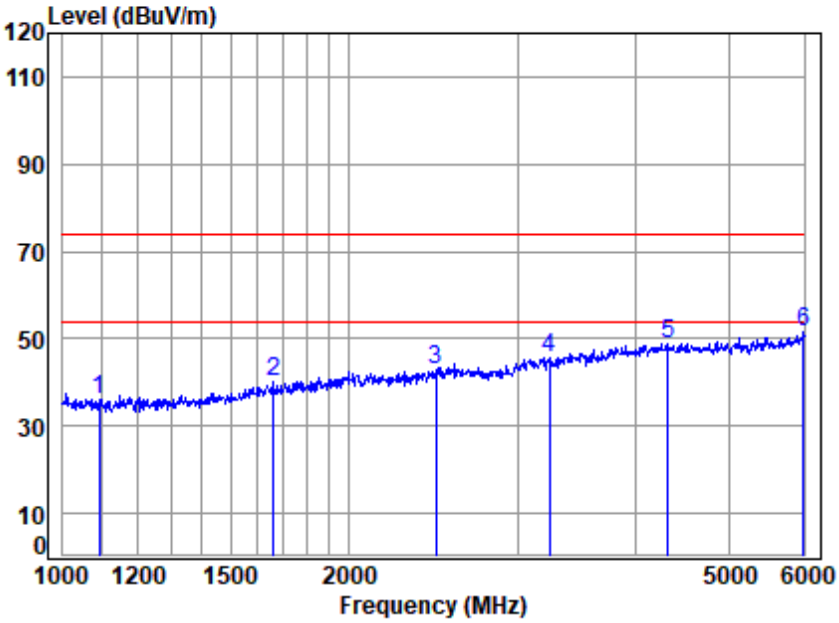
Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02812AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1091.766	3.38	24.06	38.07	46.83	36.20	74.00	-37.80	Peak
2	1663.393	4.28	26.73	36.48	45.65	40.18	74.00	-33.82	Peak
3	2462.692	5.14	29.18	35.62	44.17	42.87	74.00	-31.13	Peak
4	3245.229	5.91	31.50	35.14	43.49	45.76	74.00	-28.24	Peak
5	4322.645	7.01	33.60	34.56	42.89	48.94	74.00	-25.06	Peak
6 q	5989.259	8.16	34.98	35.04	43.44	51.54	74.00	-22.46	Peak

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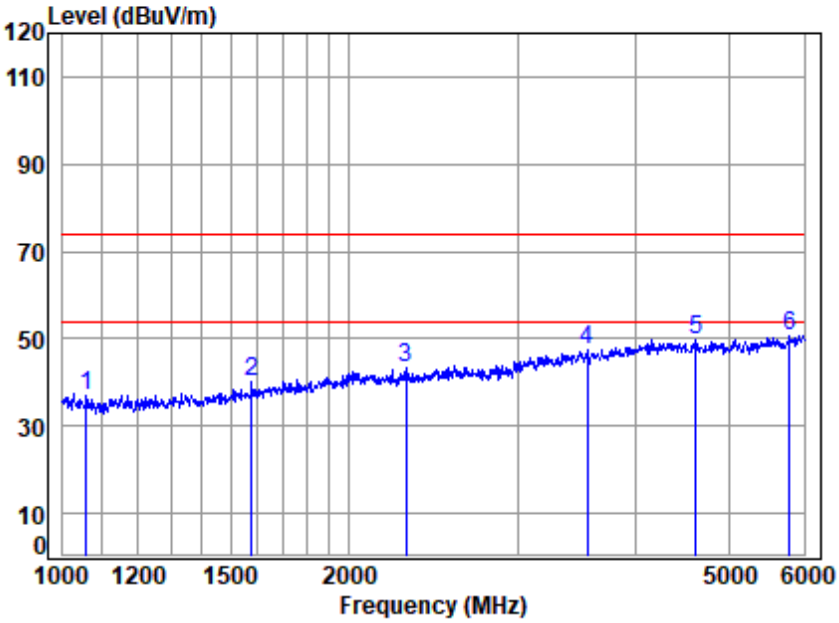
Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 02812AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1059.012	3.31	24.33	38.18	47.35	36.81	74.00	-37.19	Peak
2	1579.169	4.17	26.25	36.68	46.28	40.02	74.00	-33.98	Peak
3	2292.366	4.98	28.37	35.68	45.48	43.15	74.00	-30.85	Peak
4	3549.384	6.28	31.80	34.80	44.05	47.33	74.00	-26.67	Peak
5	4618.928	7.20	33.50	34.75	43.62	49.57	74.00	-24.43	Peak
6 q	5788.796	8.02	34.58	35.03	43.23	50.80	74.00	-23.20	Peak

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7 Test Setup Photo

Refer to Setup Photo for SZCR2308002812AT

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2308002812AT

- End of the Report -

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