

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800336702

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Human Exposure Report

Application No.: SZCR2408003367AT **Applicant:** KYOSHO CORPORATION

Address of Applicant: 7-15 Nihonbashi Tomizawacho, Chuo-ku, Tokyo 103-0006 Japan

Manufacturer: CALARIE PLASTIC & METAL (SHENZHEN) CO., LTD.

Address of Manufacturer: 6th Floor, Block 3, Yu Heng Industrial Estate, Tan Tou Commune, Songgang

County, Baoan District, Shenzhen City, China.

Factory: CALARIE PLASTIC & METAL (SHENZHEN) CO., LTD.

Address of Factory: 6th Floor, Block 3, Yu Heng Industrial Estate, Tan Tou Commune, Songgang

County, Baoan District, Shenzhen City, China.

Equipment Under Test (EUT):

EUT Name: MOTN LED BASE SYSTEM

Model No.: K07125

Trade Mark:

FCC ID: 2BGBV-K07125

Standards: 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2024-08-29

Date of Test: 2024-08-31 to 2024-09-10

Date of Issue: 2024-09-12

Test Result : Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2024-09-12		Original				

Authorized for issue by:		
	(eo_li	
	Leo Li/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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3 **General Information**

Details of E.U.T.

Power supply:	DC 5V from adapter input AC 120V/60Hz
Operation frequency:	456.58kHz to 459.12kHz
Modulation type:	ASK
Antenna type:	Loop Antenna

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.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Adapter	Apple	A2167	REF. No.SEA05B04D	
Type-C Cable	SGS	N/A	REF. No.SEA07B00	



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Test Location 3.3

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

3.4 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.



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3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-04-01
2	MAGPy-8H3D+E3D	SPEAG	3061	SEM060-31	2025/04/11
3	MAGPy-DAS	SPEAG	3063	SEM060-32	2025/04/11



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Test Results 5

RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 20cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)		
	(A) Limits for Occ	cupational/Controlled Ex	posures			
0.3-3.0 614 1.63 *(100) 6						
3.0-30	1842/f	4.89/f	*(900/f²)	6		
30-300	61.4	0.163	1.0	6		
300-1500	/	/	f/300	6		
1500-100,000	/	/	5	6		
	(B) Limits for Genera	l Population/Uncontrolle	d Exposure			
0.3-1.34	614	1.63	*(100)	30		
1.34-30	824/f	2.19/f	*(180/f²)	30		
30-300	27.5	0.073	0.2	30		
300-1500	/	/	f/1500	30		
1500-100,000	/	/	1.0	30		

F=frequency in MHz

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C 52.9 % RH Atmospheric Pressure: 1020 mbar Humidity: This device has been tested the worst status of full load and the device has been tested with the car model at zero charge, intermediate charge, and full charge.



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⁼Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).



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Measurement Data

Magnetic Field Emissions

Operation	Test Distance	Test	Probe Measure Result			50 % Limit (A/m)
frequency	(cm)	Position		(A/m)		
			unload	Half load	full load	
457.32		Side 1	0.039	0.071	0.083	
kHz which is the		Side 2	0.044	0.045	0.052	
worst case	20	Side 3	0.028	0.055	0.063	0.815
within the	20	Side 4	0.048	0.043	0.046	0.015
operation frequency range		Тор	0.043	0.036	0.042	

Operation	Test Distance	Tost	Probe M	Probe Measure Result(A/m)			
frequency	(cm)	Test Position	zero charge	intermediate charge	full charge	(A /m)	
457.32		Side 1	0.105	0.088	0.043		
kHz which is the		Side 2	0.055	0.046	0.024		
worst case	20	Side 3	0.079	0.066	0.033	0.815	
within the	20	Side 4	0.058	0.049	0.024	0.013	
operation frequency range		Тор	0.051	0.043	0.020		



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Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)
			unload	Half load	full load	
457.32		Side 1	0.04	1.73	2.29	
kHz which is the		Side 2	0.04	0.98	1.30	
worst case	20	Side 3	0.03	0.75	1.00	307
within the operation	20	Side 4	0.04	1.16	1.54	307
frequency range		Тор	0.04	1.07	1.42	

Operation	Test Distance	Test	Probe M	50 % Limit		
Operation frequency	(cm)	Position	zero charge	intermediate charge	full charge	(V/m)
457.32		Side 1	2.02	1.68	0.99	
kHz which is the		Side 2	1.15	0.95	0.56	
worst case	20	Side 3	0.88	0.73	0.42	307
within the	20	Side 4	1.36	1.13	0.66	307
operation frequency range		Тор	1.25	1.04	0.61	



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6 **Test Setup Photos**

Refer to Appendix - Test Setup Photo for SZCR2408003367AT

- End of the Report -



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