

Report No.: SZEM220300192901

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## TEST REPORT

**Application No.:** SZEM2203001929BA **Applicant:** Flashbay Electronics

Address of Applicant: Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town,

Huiyang District, Huizhou City, Guangdong Province, P.R.China

Manufacturer: Flashbay Electronics

Address of Manufacturer: Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town,

Huiyang District, Huizhou City, Guangdong Province, P.R.China

Factory: Flashbay Electronics

Address of Factory: Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town,

Huiyang District, Huizhou City, Guangdong Province, P.R.China

**Equipment Under Test (EUT):** 

EUT Name: Power Banks
Model No.: Solar Card (SC)

Standard(s): VCCI-CISPR 32: 2016

**Date of Receipt:** 2022-03-31

**Date of Test:** 2022-03-31 to 2022-04-08

**Date of Issue:** 2022-04-11

Test Result: Pass\*

V \ \ \ \ Keny Xu



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record							
Version Chapter Date Modifier Remark							
01		2022-04-11		Original			

Authorized for issue by:		
	Tydon	
	Foray Chen/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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## **Test Summary**

Emission Part									
Item	Standard	Method	Requirement	Result					
Conducted Emissions at Mains Power Port (150kHz-30MHz)	VCCI-CISPR 32:	VCCI-CISPR 32: 2016	Class B	Pass					
Radiated Emissions (30MHz-1GHz)	2016	VCCI-CISPR 32: 2016	Class B	Pass					



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### **General Information**

#### 4.1 Details of E.U.T.

Power supply:	Input: DC5V 1A
	Output: DC5V 1A
	Rechargeable battery: DC3.7V 2600mAh
Cable(s):	EUT cable: 5cm unshielded

#### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Adapter	Apple	A1443	REF. No.SEA05D11D	
Type-C Cable	SGS	N/A	REF. No.SEA07D01D	
Load Resistor	SGS	N/A	REF. No.SEA06A00	

#### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty		
Conducted Emissions at Mains Power Port (150kHz-30MHz)	± 2.9dB		
Radiated Emissions (30MHz-1GHz)	± 4.8dB		

#### Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr/ETSI</sub> (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:

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

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

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.

#### • 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

Conducted Emissions at Mains Power Port (150kHz-30MHz)									
Equipment	<b>Inventory No</b>	Cal Date	Cal Due Date						
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2022-03-23	2023-03-22				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM024-01	2021-07-09	2022-07-08				
LISN	Rohde&Schwarz	ENV216	SEM007-01	2021-09-23	2022-09-22				
LISN	ETS-LINDGREN	3816/2	SEM007-02	2022-03-23	2023-03-22				

Radiated Emissions (30MHz-1GHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
10m Semi-Anechoic Chamber	SAEMC:		SEM001-03	2021-03-27	2024-03-26			
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2021-10-21	2022-10-20			
Trilog-Broadband Antenna	Schwarzbeck	VULB9168 SEM003-18		2021-10-28	2023-10-27			
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2022-04-07	2023-04-06			
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2022-08-13			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM029-01	2021-07-09	2022-07-08			

General used equipment								
Equipment	Manufacturer	Inventory No	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2021-09-14	2022-09-13			
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2021-09-14	2022-09-13			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2022-03-28	2023-03-27			



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#### 6 Emission Test Results

#### 6.1 Conducted Emissions at Mains Power Port (150kHz-30MHz)

Test Requirement: VCCI-CISPR 32: 2016
Test Method: VCCI-CISPR 32: 2016

Limit:

0.5M-5MHz 56dB( $\mu$ V) quasi-peak, 46dB( $\mu$ V) average 5M-30MHz 60dB( $\mu$ V) quasi-peak, 50dB( $\mu$ V) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

#### 6.1.1 E.U.T. Operation

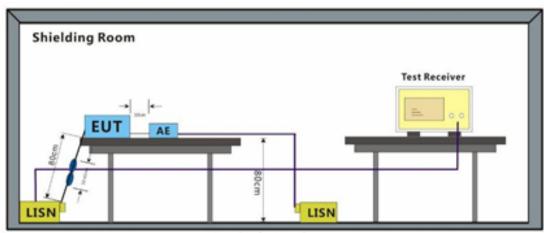
Operating Environment:

Temperature: 21.6 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Pre-scan	00	Charge mode, keep EUT being charged with adapter.				
Final test	02	Charge and discharge mode, keep EUT being charged with adapter and discharging with full load.				

#### 6.1.3 Test Setup Diagram



**Gound Reference Plane** 

#### 6.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Remark: Level= Read Level+ Cable Loss+ LISN Factor



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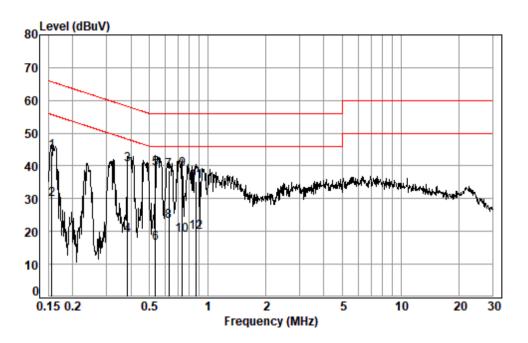
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Test Mode: 02; Line: Live line



: Shielding Room

Condition: Line Job No. : 01929BA

Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1565	0.11	9.70	34.72	44.53	65.65	-21.12	QP
2	0.1565	0.11	9.70	19.85	29.66	55.65	-25.99	Average
3	0.3852	0.13	9.76	30.43	40.32	58.17	-17.85	QP
4	0.3852	0.13	9.76	8.88	18.77	48.17	-29.40	Average
5 *	0.5378	0.15	9.77	29.23	39.15	56.00	-16.85	QP
6	0.5378	0.15	9.77	6.46	16.38	46.00	-29.62	Average
7	0.6305	0.16	9.77	28.83	38.76	56.00	-17.24	QP
8 *	0.6305	0.16	9.77	13.17	23.10	46.00	-22.90	Average
9	0.7391	0.17	9.77	28.93	38.87	56.00	-17.13	QP
10	0.7391	0.17	9.77	8.97	18.91	46.00	-27.09	Average
11	0.8757	0.19	9.78	25.41	35.38	56.00	-20.62	QP
12	0.8757	0.19	9.78	9.82	19.79	46.00	-26.21	Average



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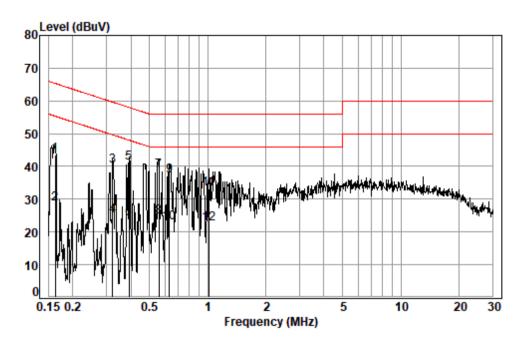
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Test Mode: 02; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 01929BA

Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.11	9.71	33.81	43.63	65.34	-21.71	QP
2	0.1624	0.11	9.71	18.86	28.68	55.34	-26.66	Average
3	0.3217	0.12	9.74	30.17	40.03	59.66	-19.63	QP
4	0.3217	0.12	9.74	15.03	24.89	49.66	-24.77	Average
5 *	0.3914	0.13	9.75	31.08	40.96	58.03	-17.07	QP
6	0.3914	0.13	9.75	14.08	23.96	48.03	-24.07	Average
7	0.5581	0.15	9.77	28.67	38.59	56.00	-17.41	QP
8 *	0.5581	0.15	9.77	14.79	24.71	46.00	-21.29	Average
9	0.6338	0.16	9.77	27.17	37.10	56.00	-18.90	QP
10	0.6338	0.16	9.77	12.75	22.68	46.00	-23.32	Average
11	1.0157	0.20	9.78	23.26	33.24	56.00	-22.76	QP
12	1.0157	0.20	9.78	12.63	22.61	46.00	-23.39	Average



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#### 6.2 Radiated Emissions (30MHz-1GHz)

VCCI-CISPR 32: 2016 Test Requirement: Test Method: VCCI-CISPR 32: 2016

Measurement Distance: 10m

#### Limit:

ERECHENCY (MU-)	dBuV/m (At 10m)	dBuV/m (At 3m)					
FREQUENCY (MHz)	Class B	Class B					
30 ~ 230	30	40					
230 ~ 1000 37 47							
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz							

#### 6.2.1 E.U.T. Operation

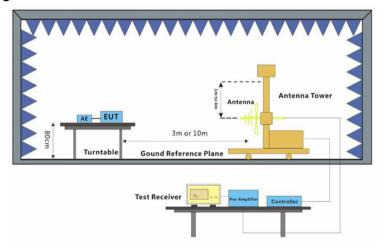
Operating Environment:

Temperature: 23.6 °C Humidity: 49.5 % RH Atmospheric Pressure: 1015 mbar

#### 6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Pre-scan	00	Charge mode, keep EUT being charged with adapter.							
Pre-scan	01	Discharge mode, keep EUT discharging with full load.							
Final test	02	Charge and discharge mode, keep EUT being charged with adapter and discharging with full load.							
Pre-scan	03	Idle mode.							

#### 6.2.3 Test Setup Diagram





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#### 6.2.4 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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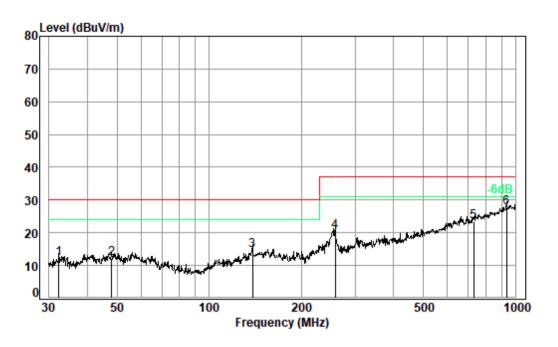
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Test Mode: 02; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 01929BA

Test Mode: 02

	Freq		Ant Factor						Remark
_	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	32.293	27.12	16.29	1.07	32.46	12.02	30.00	-17.98	QP
2	47.994	26.37	17.22	1.14	32.41	12.32	30.00	-17.68	QP
3	138.387	28.80	16.88	1.41	32.40	14.69	30.00	-15.31	QP
4	258.326	34.40	16.40	1.88	32.40	20.28	37.00	-16.72	QP
5	731.920	26.85	25.54	3.32	32.44	23.27	37.00	-13.73	QP
6 pp	935.546	27.29	28.28	3.55	31.38	27.74	37.00	-9.26	<b>OP</b>



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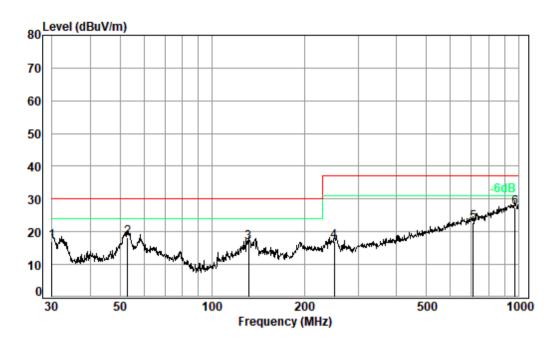


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Test Mode: 02; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 01929BA

Test Mode: 02

	Freq		Ant Factor						Remark
_	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.000	32.03	16.36	1.05	32.47	16.97	30.00	-13.03	QP
2	52.945	32.27	17.25	1.15	32.40	18.27	30.00	-11.73	QP
3	131.297	31.78	15.82	1.38	32.40	16.58	30.00	-13.42	QP
4	250.301	31.41	16.14	1.85	32.40	17.00	37.00	-20.00	QP
5	711.674	26.62	25.27	3.31	32.48	22.72	37.00	-14.28	QP
6 pp	975.753	26.65	28.22	3.65	31.02	27.50	37.00	-9.50	<b>OP</b>



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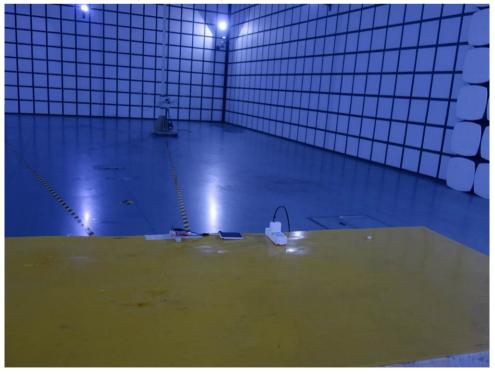
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#### **Test Setup Photo** 7

Conducted Emissions at Mains Power Port (150kHz-30MHz)



Radiated Emissions (30MHz-1GHz)





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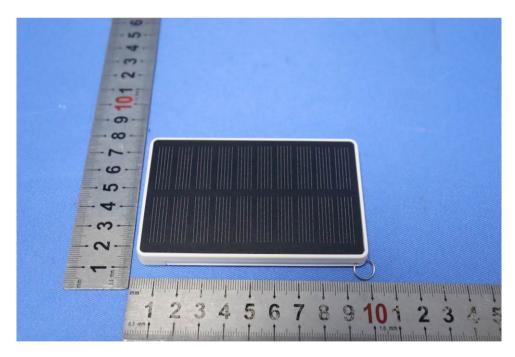


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## 8 EUT Constructional Details (EUT Photos)







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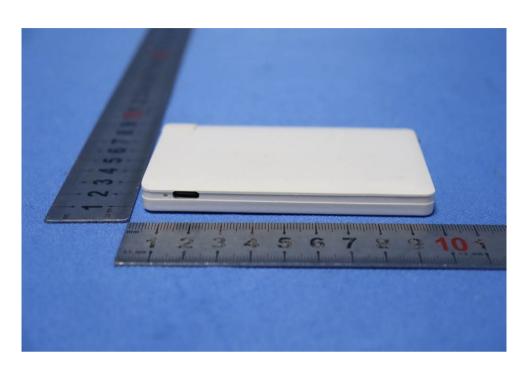
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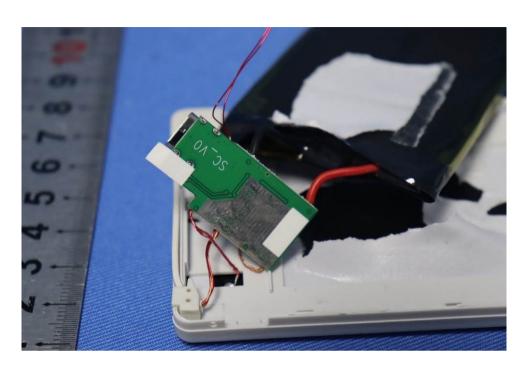
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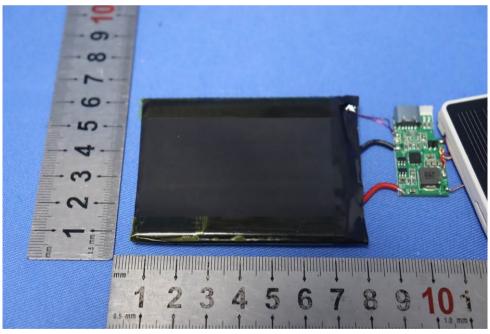
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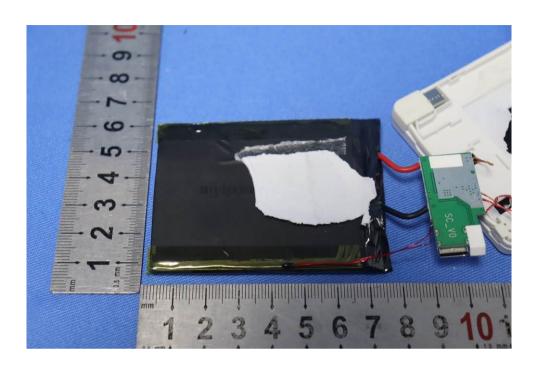
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