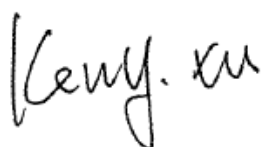


TEST REPORT

Application No.: SZEM1906015071BA
Applicant: Flashbay Electronics
Address of Applicant: 1-4/F of Bldg No.3, Bldg No.2, 101-501F of Bldg No.1, Xifengcheng Industrial Park, No. 2, Fuyuan Road, Heping Community, Fuhai Street, Baoan District, Shenzhen City, Guangdong Province, P.R. China
Manufacturer: Flashbay Electronics
Address of Manufacturer: 1-4/F of Bldg No.3, Bldg No.2, 101-501F of Bldg No.1, Xifengcheng Industrial Park, No. 2, Fuyuan Road, Heping Community, Fuhai Street, Baoan District, Shenzhen City, Guangdong Province, P.R. China
Factory: Flashbay Electronics
Address of Factory: 1-4/F of Bldg No.3, Bldg No.2, 101-501F of Bldg No.1, Xifengcheng Industrial Park, No. 2, Fuyuan Road, Heping Community, Fuhai Street, Baoan District, Shenzhen City, Guangdong Province, P.R. China
Equipment Under Test (EUT):
EUT Name: Power Banks
Model No.: Titan-20100, Titan(TN) *
 * Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : AS/NZS CISPR 32:2015
Date of Receipt: 2019-06-13
Date of Test: 2019-06-13 to 2019-06-15
Date of Issue: 2019-06-19

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		2019-06-19		Original

Authorized for issue by:			
			
		<hr/> Foray Chen /Project Engineer	
			
		<hr/> Eric Fu /Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	AS/NZS CISPR 32:2015	AS/NZS CISPR 32:2015	Class B	Pass
Radiated Emissions (30MHz-1GHz)	AS/NZS CISPR 32:2015	AS/NZS CISPR 32:2015	Class B	Pass

Internal Source	Upper Frequency
Below 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5 times the highest frequency or 6 GHz, whichever is less

Declaration of EUT Family Grouping:

Model No.: Titan-20100, Titan(TN)

Only the model Titan(TN) was tested, since the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference being of the cell and model No..



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC5V 2A Output: DC5V 2A each port, DC5V 3A max Rechargeable battery: DC3.7V 20100mAh 72.4Wh
---------------	--

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357 W010A051	REF. No.SEA0500
Load Resistor	SGS	N/A	REF. No.SEA0600
USB Cable	PHILIPS	SWR2101	REF. No.SEA0700

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.5dB (30MHz-1GHz)
3	Temperature test	± 1 °C
4	Humidity test	± 3%



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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:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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**

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. 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **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 Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2019-09-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018-07-12	2019-07-11
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019-04-01	2020-03-31
Trilog-Broadband Antenna (30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2019-04-12	2020-04-11

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	AS/NZS CISPR 32:2015
Test Method:	AS/NZS CISPR 32:2015
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

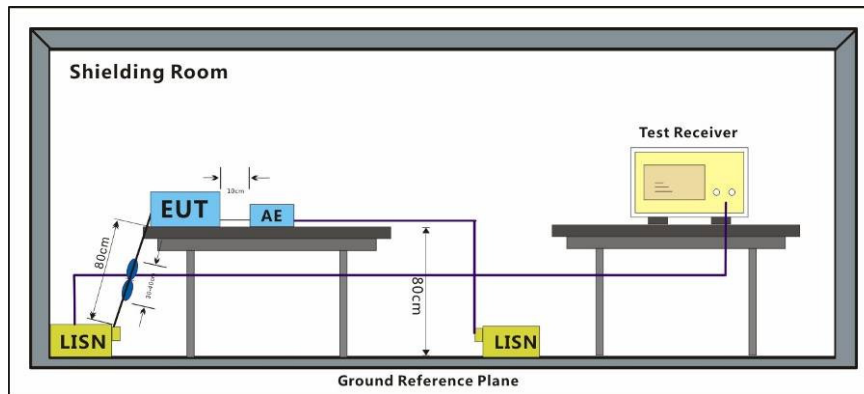
Pretest these modes to find the worst case:

- a: Charge mode, keep EUT being charged with adapter.
- c: Charge and discharge mode, keep EUT being charged with adapter and working with full load and lighting.

The worst case for final test:

- c: Charge and discharge mode, keep EUT being charged with adapter and working with full load and lighting.

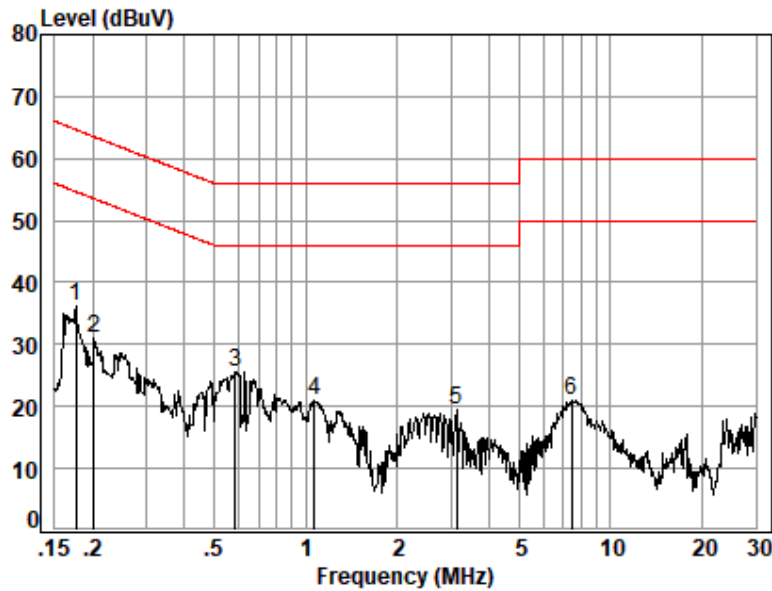
6.1.2 Test Setup Diagram



6.1.3 Measurement 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.

Mode:c; Line:Live Line



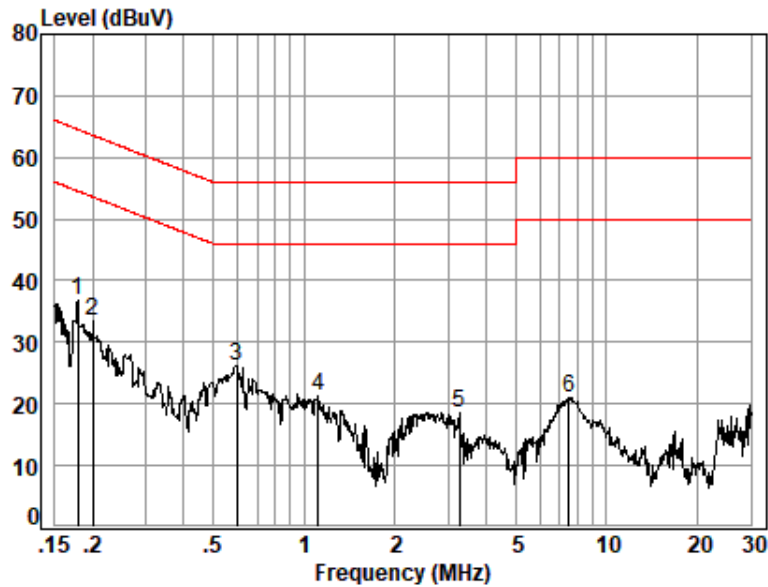
Site : Shielding Room
 Condition: Line
 Job No. : 15071BA
 Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1758	0.02	9.66	26.52	36.20	54.68	-18.48 Peak
2	0.2018	0.02	9.66	21.20	30.88	53.54	-22.66 Peak
3	0.5854	0.07	9.67	15.88	25.62	46.00	-20.38 Peak
4	1.0710	0.10	9.74	11.13	20.97	46.00	-25.03 Peak
5	3.1231	0.16	9.71	9.50	19.37	46.00	-26.63 Peak
6	7.4465	0.17	9.79	10.95	20.91	50.00	-29.09 Peak



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Mode:c; Line:Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 15071BA
 Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1787	0.02	9.64	27.19	36.85	54.55	-17.70 Peak
2	0.2007	0.02	9.64	23.88	33.54	53.58	-20.04 Peak
3	0.5979	0.07	9.64	16.59	26.30	46.00	-19.70 Peak
4	1.1114	0.10	9.70	11.34	21.14	46.00	-24.86 Peak
5	3.2583	0.16	9.68	8.82	18.66	46.00	-27.34 Peak
6	7.5258	0.17	9.78	11.00	20.95	50.00	-29.05 Peak



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: AS/NZS CISPR 32:2015
 Test Method: AS/NZS CISPR 32:2015
 Frequency Range: 30MHz to 1GHz
 Measurement Distance: 10m
 Limit:
 30MHz - 230MHz 30dB(μV/m) quasi-peak Other
 230MHz-1000MHz 37dB(μV/m) quasi-peak Other
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

6.2.1 E.U.T. Operation

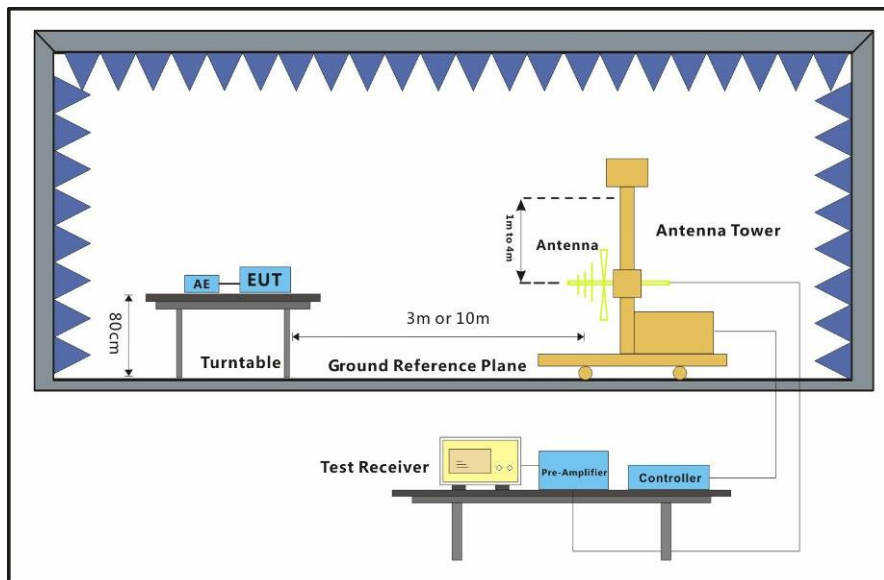
Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case:
 a: Charge mode, keep EUT being charged with adapter.
 b: Discharge mode, keep EUT working with full load and lighting.
 c: Charge and discharge mode, keep EUT being charged with adapter and working with full load and lighting.
 d: Idle mode.

The worst case for final test: c: Charge and discharge mode, keep EUT being charged with adapter and working with full load and lighting.

6.2.2 Test Setup Diagram

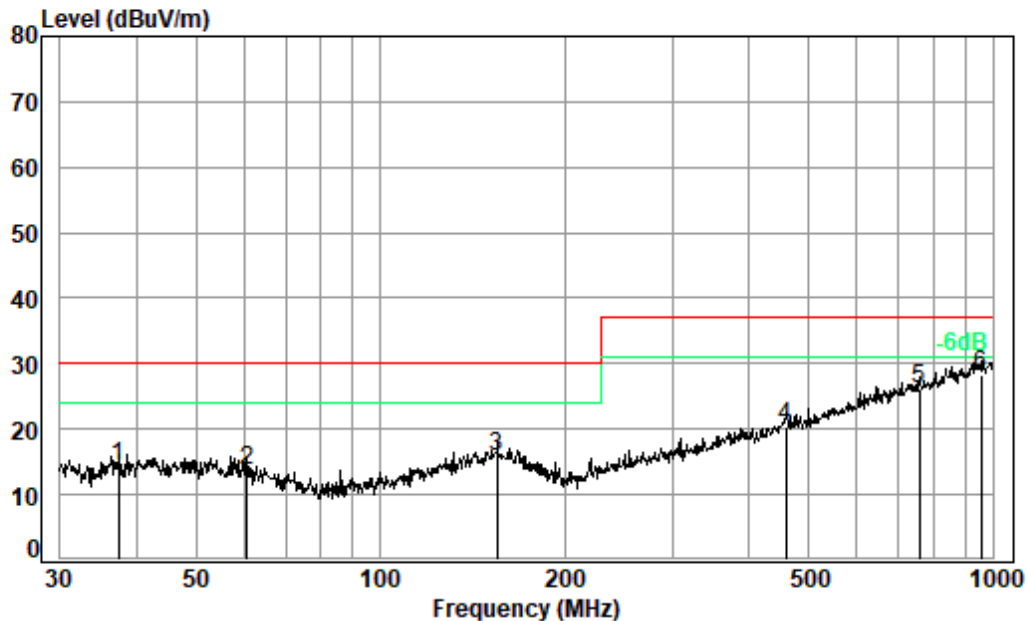


6.2.3 Measurement Data

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.



Mode:c; Polarization:Horizontal



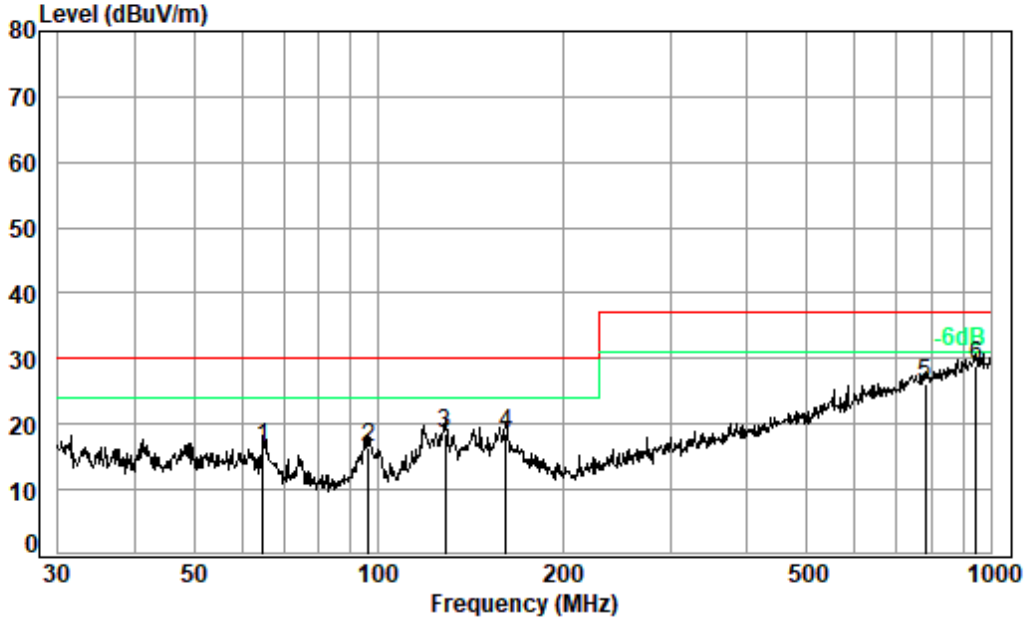
Condition: 10m HORIZONTAL
Job No. : 15071BA
Test Mode: c

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.42	6.79	12.98	32.47	26.91	14.21	30.00	-15.79
2	60.49	7.01	11.90	32.46	27.13	13.58	30.00	-16.42
3	155.36	7.46	13.40	32.43	27.39	15.82	30.00	-14.18
4	459.11	8.49	16.28	32.35	28.01	20.43	37.00	-16.57
5	758.04	9.21	20.86	32.22	28.16	26.01	37.00	-10.99
6 pp	955.44	9.54	22.75	31.12	27.25	28.42	37.00	-8.58



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Mode:c; Polarization:Vertical



Condition: 10m VERTICAL
 Job No. : 15071BA
 Test Mode: c

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	64.89	6.96	11.02	32.46	30.79	16.31	30.00	-13.69
2	96.44	7.19	9.15	32.47	32.44	16.31	30.00	-13.69
3	128.56	7.35	11.96	32.44	31.80	18.67	30.00	-11.33
4	161.47	7.49	13.24	32.42	30.10	18.41	30.00	-11.59
5	782.35	9.25	21.11	32.19	27.87	26.04	37.00	-10.96
6 pp	945.44	9.53	22.70	31.21	27.75	28.77	37.00	-8.23



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7 Photographs

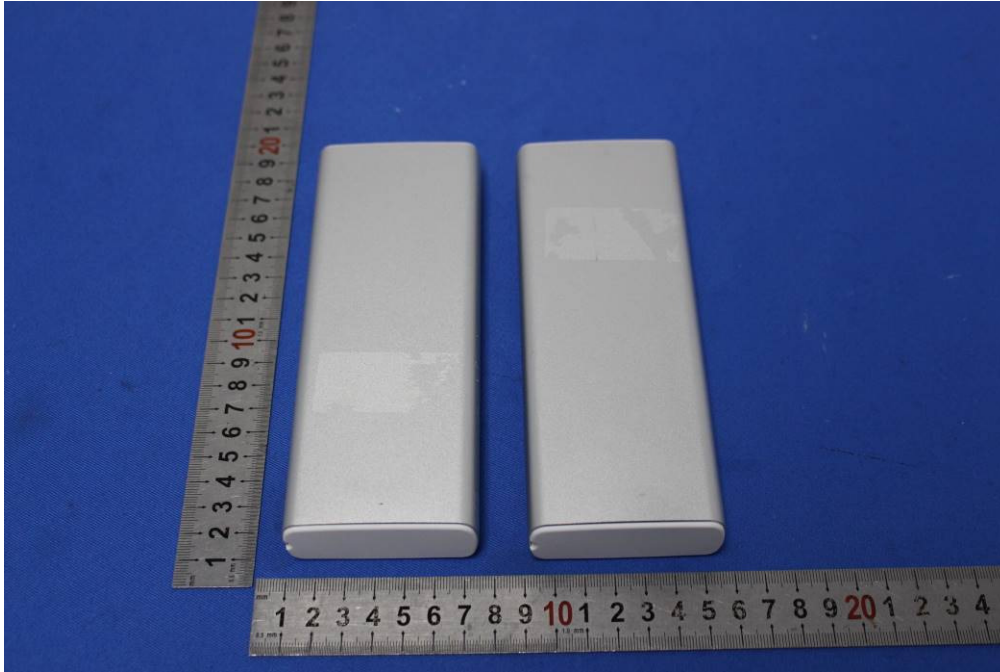
7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



7.2 Radiated Emissions (30MHz-1GHz) Test Setup



7.3 EUT Constructional Details (EUT Photos)



Model: Titan
 In/Out : 5V=2A, 10W
 Cell: 20100mAh 72.4Wh
 Output: 11000mAh 55.0Wh

RoHS FC CE

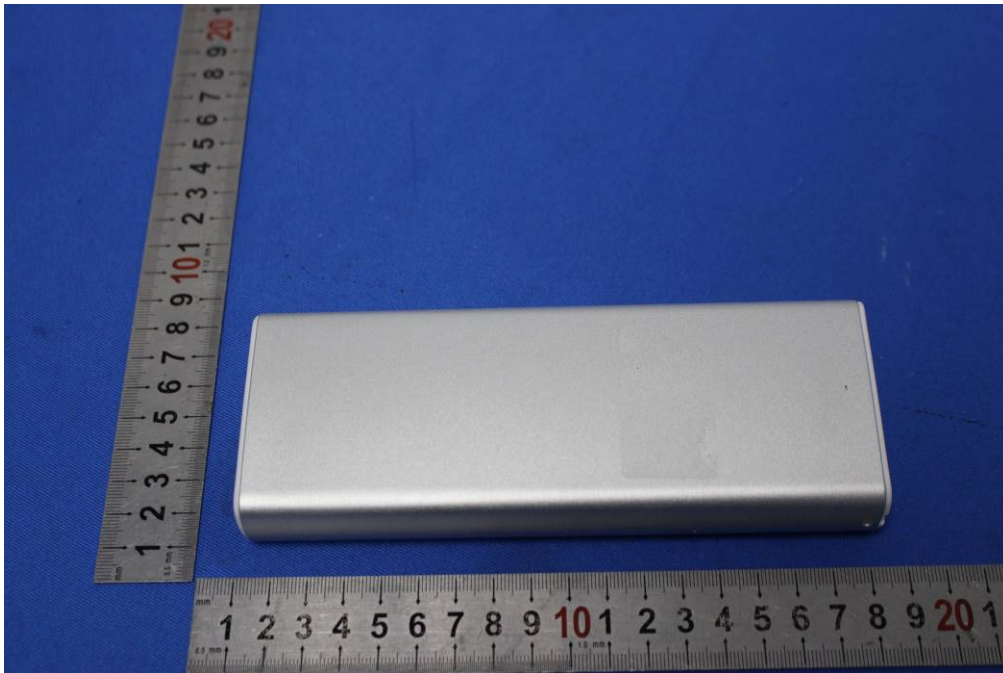
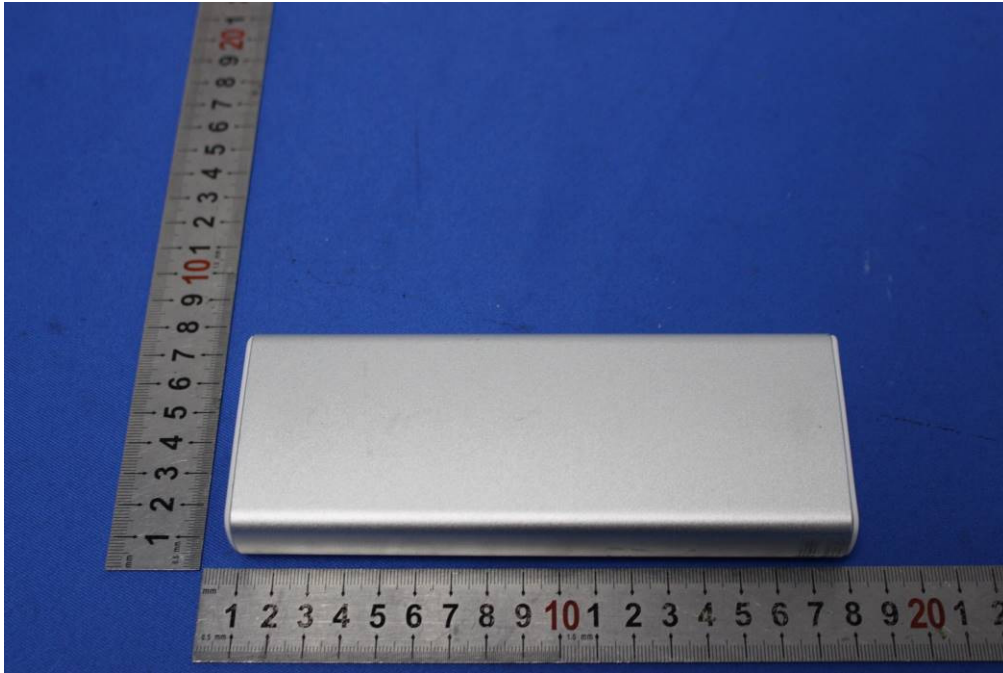
Made in China
 by Flashbay 19/04

Model: Titan
 In/Out : 5V=2A, 10W
 Cell: 15600mAh 56.2Wh
 Output: 9400mAh 47.0Wh

RoHS FC CE

Made in China
 by Flashbay 19/04

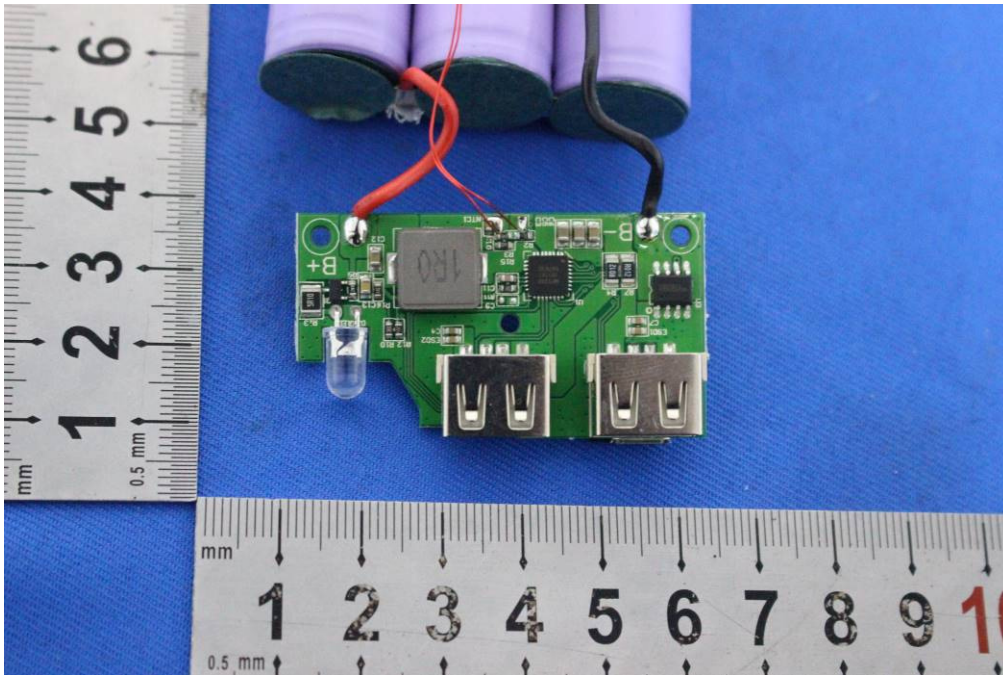
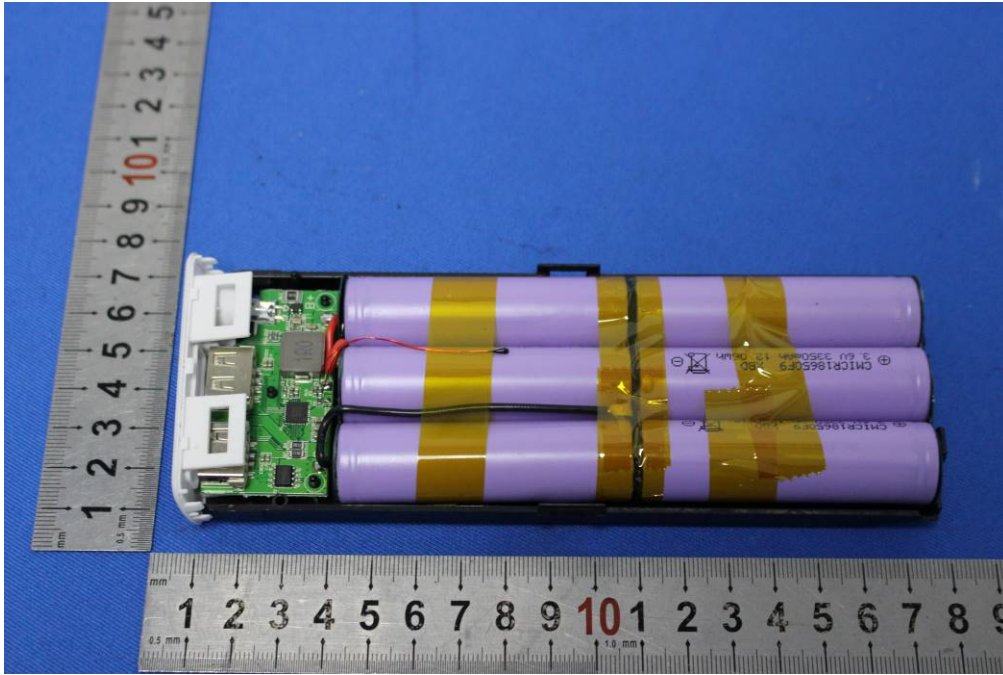




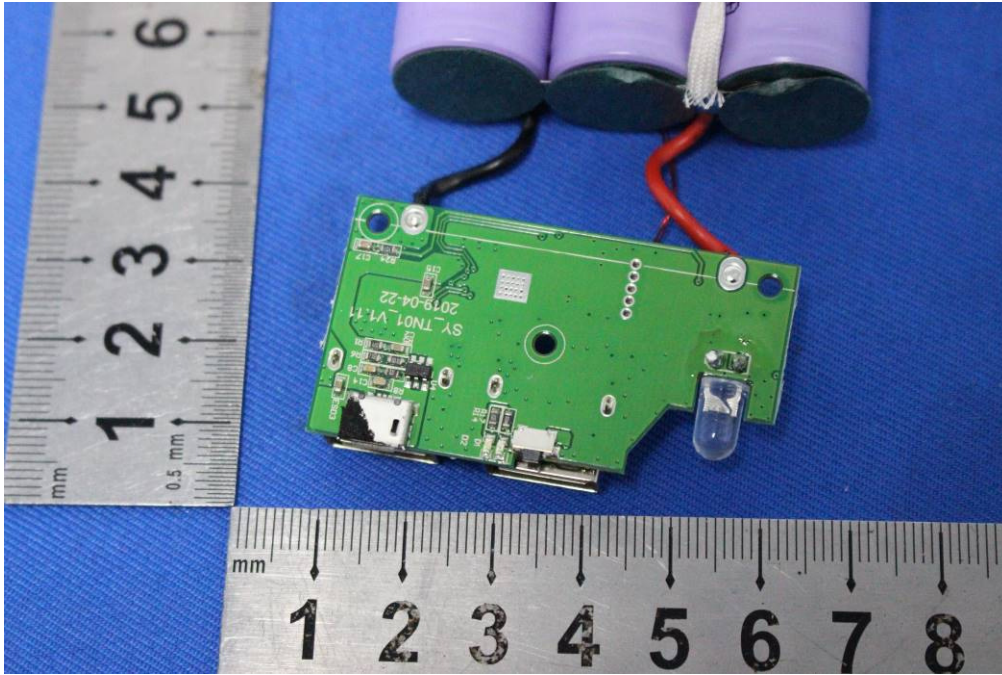


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- End of the Report -

