

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

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Job No.: SZEM171001099801

Fax: +86 (0) 755 2671 0594 Page: 1 of 21

TEST RESULT

Application No.: SZEM1710010998IT

Applicant: RAAMaudio UK LTD t/a Pi Supply

Address of Applicant: Unit 4 Yew Green Business Court, Bells Yew Green, East Sussex, TN39BJ,

United Kingdom

Manufacturer: RAAMaudio UK LTD t/a Pi Supply

Address of Manufacturer: Unit 4 Yew Green Business Court, Bells Yew Green, East Sussex, TN39BJ,

United Kingdom

Factory: Embest Technology Co., Ltd

Address of Factory: Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park,

Liuxian Ave. No.1183, Nanshan District, Shenzhen, Guangdong, China

Equipment Under Test (EUT):

EUT Name: PiJuice HAT **Model No.:** PiJuice HAT

Standard(s): AS/NZS CISPR 32:2015

Date of Receipt: 2017-10-30

Date of Test: 2017-10-31 to 2017-11-03

Date of Issue: 2017-11-08

* This report is just a test result base on the test method and limit requirement shown in the form on the second page. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Lorda

Leo Lai Project Engineer



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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				
Asymmetric Mode Conducted Emissions (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				
Radiated Emissions (above 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

All the tests were requested as per applicant's requirement.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.7 or DC 5V from USB port
Cable:	1m shielded USB cable
Internal source:	Loss than 108MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
U-disk	Sandisk	SDCZ60-016G	REF. No.SEA0100
TF Card	Kingston	SDC8GB	REF. No.SEA0400
Micro USB Cable	PHILIPS	SWR2101	REF. No.SEA0700
HDMI Cable	Apple	MC838FE/B	REF. No.SEA0900
AC/DC Adapter	SGS	DC 5V	REF. No.SEA0500
Monitor	AOC	280LM00004	KBWG9JA000563

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction emission	3.0dB (150kHz to 30MHz)
2	Dadiated emission	4.5dB (30MHz-1GHz)
2	Radiated emission	4.8dB (1GHz-6GHz)
3	Temperature test	1℃
4	Humidity test	3%

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.



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)									
Equipment Manufacturer Model No Inventory No Cal Date Cal Due D									
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2018-05-09				
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM024-01	2017-07-13	2018-07-12				
LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-09-27	2018-09-26				
LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-13				
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2017-04-14	2018-04-13				

Asymmetric Mode Conducted Emissions (150kHz-30MHz)									
Equipment	Manufacturer	acturer Model No Inventory No		Cal Date	Cal Due Date				
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2018-05-09				
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM024-01	2017-07-13	2018-07-12				
LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-09-27	2018-09-26				
LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-13				
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2017-04-14	2018-04-13				
Capacitive Voltage Probe	Schwarzbeck	CVP9222B	SEM009-11	2017-07-26	2020-07-25				
Current Sensor Probe	TESEQ	CSP9160A	SEM009-12	2016-12-21	2019-12-20				

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	2017-08-05	2020-08-04			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12			
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017-09-27	2018-09-26			
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26			
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-13			



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Radiated Emissions (above 1GHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12			
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-09	2017-06-05	2018-06-04			
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-06	2015-06-14	2018-06-13			
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-26			

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	2017-09-29	2018-09-28		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04 2017-09-		2018-09-28		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-17		



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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(μ V)-56dB(μ V) quasi-peak, 56dB(μ V)-46dB(μ V) average

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

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

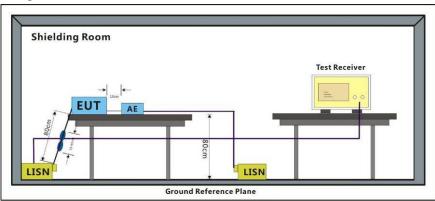
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Data transfer&Video play&Network_Charging

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

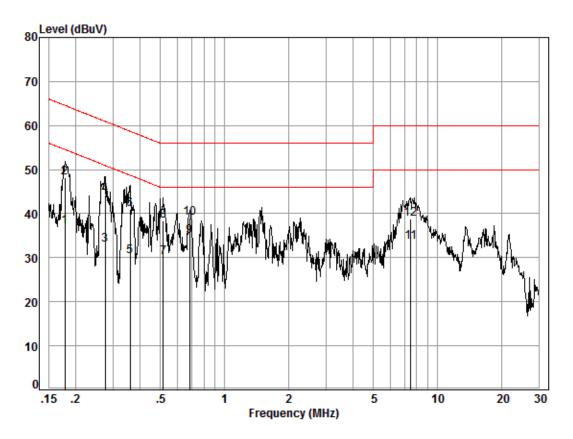
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Mode:a; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 10998IT

Test mode: a

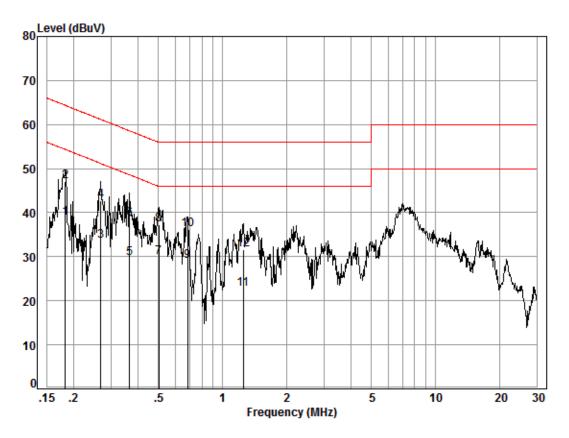
	mouc. u							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
								_
1	0.18	0.02	9.51	27.61	37.14	54.59	-17.45	Average
2	0.18	0.02	9.51	38.64	48.17	64.59	-16.42	QP
3	0.28	0.01	9.51	23.38	32.90	50.94	-18.04	Average
4	0.28	0.01	9.51	34.73	44.25	60.94	-16.69	QP
5	0.36	0.01	9.50	20.79	30.30	48.69	-18.39	Average
6	0.36	0.01	9.50	31.50	41.01	58.69	-17.68	QP
7	0.52	0.01	9.50	20.61	30.12	46.00	-15.88	Average
8	0.52	0.01	9.50	28.85	38.36	56.00	-17.64	QP
9	0.69	0.02	9.50	25.30	34.82	46.00	-11.18	Average
10	0.69	0.02	9.50	29.53	39.05	56.00	-16.95	QP
11	7.49	0.01	9.60	24.02	33.63	50.00	-16.37	Average
12	7.49	0.01	9.60	29.16	38.77	60.00	-21.23	QP



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Mode:a; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 10998IT

Test mode: a

	mouci a							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
	PILIZ	ub	ub	ubuv	ubuv	abav	ub	
1	0.18	0.02	9.58	29.24	38.84	54.37	-15.53	Average
2	0.18	0.02	9.58	37.50	47.10	64.37	-17.27	QP
3	0.27	0.01	9.58	24.08	33.67	51.16	-17.49	Average
4	0.27	0.01	9.58	33.16	42.75	61.16	-18.41	QP
5	0.37	0.01	9.58	20.00	29.59	48.56	-18.97	Average
6	0.37	0.01	9.58	29.04	38.63	58.56	-19.93	QP
7	0.50	0.01	9.60	20.22	29.83	46.00	-16.17	Average
8	0.50	0.01	9.60	27.63	37.24	56.00	-18.76	QP
9	0.69	0.02	9.62	19.37	29.01	46.00	-16.99	Average
10	0.69	0.02	9.62	26.56	36.20	56.00	-19.80	QP
11	1.26	0.02	9.64	13.10	22.76	46.00	-23.24	Average
12	1.26	0.02	9.64	21.88	31.54	56.00	-24.46	QP



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6.2 Asymmetric Mode Conducted Emissions (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(Voltage) 84-74(dBµV) quasi-peak; 74-64(dBµV) average

0.5M-30MHz(Voltage) 74(dBμV) quasi-peak; 64(dBμV) average

0.15M-0.5MHz(Current) 40-30(dBµV) quasi-peak; 30-20(dBµV) average

0.5M-30MHz(Current) 30(dBµV) quasi-peak; 20(dBµV) average Detector: 9kHz resolution bandwidth 0.15M to 30MHz

Remark: The voltage measured shall be corrected at each frequency of interest as

follows:

if the current margin with respect to the current limit is ≤ 6 dB, the actual

current margin shall be subtracted from the measured voltage;

if the current margin with respect to the current limit is > 6 dB, 6 dB shall be

subtracted from the measured voltage.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Pretest these a: Data transfer&Video play&Network_Charging mode to find the worst case:

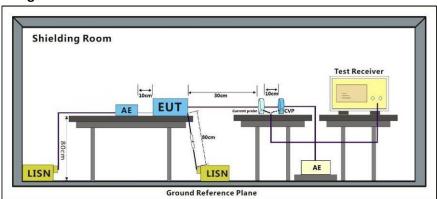
a: Data transfer&Video play&Network_Battery

The worst case

a: Data transfer&Video play&Network_Charging

for final test:

6.2.2 Test Setup Diagram



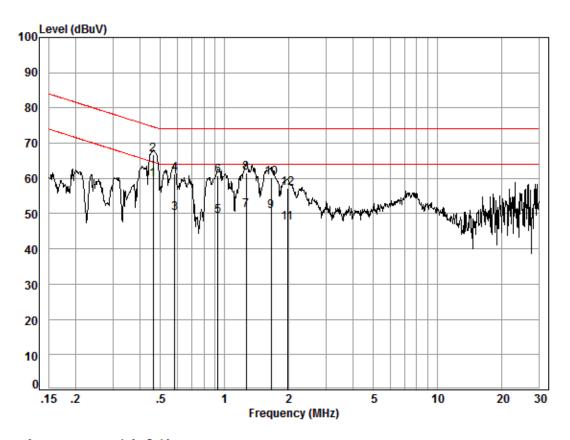
6.2.3 Measurement Data



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Mode:a



Site : Shielding Room

Condition:

Job No. : 10995IT

Test mode: a

moue. a							
	Cable	LISN	Read		Limit	0ver	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
0.46	0.01	9.64	50.06	59.71	64.63	-4.92	Average
0.46	0.01	9.64	57.01	66.66	74.63	-7.97	QP
0.59	0.01	9.58	40.57	50.16	64.00	-13.84	Average
0.59	0.01	9.58	51.65	61.24	74.00	-12.76	QP
0.93	0.02	9.49	39.79	49.30	64.00	-14.70	Average
0.93	0.02	9.49	51.12	60.63	74.00	-13.37	QP
1.27	0.02	9.45	41.59	51.06	64.00	-12.94	Average
1.27	0.02	9.45	52.10	61.57	74.00	-12.43	QP
1.65	0.02	9.41	41.20	50.63	64.00	-13.37	Average
1.65	0.02	9.41	50.81	60.24	74.00	-13.76	QP
1.98	0.02	9.38	37.89	47.29	64.00	-16.71	Average
1.98	0.02	9.38	47.87	57.27	74.00	-16.73	QP
	MHz 0.46 0.46 0.59 0.59 0.93 0.93 1.27 1.27 1.65 1.65 1.98	Cable Loss MHz dB 0.46 0.01 0.46 0.01 0.59 0.01 0.59 0.01 0.93 0.02 0.93 0.02 1.27 0.02 1.27 0.02 1.65 0.02 1.98 0.02	Cable LISN Loss Factor MHz dB dB 0.46 0.01 9.64 0.46 0.01 9.64 0.59 0.01 9.58 0.59 0.01 9.58 0.93 0.02 9.49 0.93 0.02 9.49 1.27 0.02 9.45 1.27 0.02 9.45 1.65 0.02 9.41 1.65 0.02 9.41 1.98 0.02 9.38	Cable LISN Read Loss Factor Level MHz dB dB dB dBuV 0.46 0.01 9.64 50.06 0.46 0.01 9.64 57.01 0.59 0.01 9.58 40.57 0.59 0.01 9.58 51.65 0.93 0.02 9.49 39.79 0.93 0.02 9.49 51.12 1.27 0.02 9.45 41.59 1.27 0.02 9.45 52.10 1.65 0.02 9.41 41.20 1.65 0.02 9.41 50.81 1.98 0.02 9.38 37.89	Cable LISN Read Level Level MHz dB dB dBuV dBuV 0.46 0.01 9.64 50.06 59.71 0.46 0.01 9.64 57.01 66.66 0.59 0.01 9.58 40.57 50.16 0.59 0.01 9.58 51.65 61.24 0.93 0.02 9.49 39.79 49.30 0.93 0.02 9.49 51.12 60.63 1.27 0.02 9.45 41.59 51.06 1.27 0.02 9.45 52.10 61.57 1.65 0.02 9.41 41.20 50.63 1.65 0.02 9.41 50.81 60.24 1.98 0.02 9.38 37.89 47.29	Cable LISN Freq Loss Factor Level Level Level Line MHz dB dB dBuV dBuV dBuV 0.46 0.01 9.64 50.06 59.71 64.63 0.46 0.01 9.64 57.01 66.66 74.63 0.59 0.01 9.58 40.57 50.16 64.00 0.59 0.01 9.58 51.65 61.24 74.00 0.93 0.02 9.49 39.79 49.30 64.00 0.93 0.02 9.49 51.12 60.63 74.00 1.27 0.02 9.45 41.59 51.06 64.00 1.27 0.02 9.45 52.10 61.57 74.00 1.65 0.02 9.41 41.20 50.63 64.00 1.65 0.02 9.41 50.81 60.24 74.00 1.98 0.02 9.38 37.89 47.29 64.00	Freq Loss Factor Level Level Limit Over Limit MHz dB dB dBuV dBuV



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6.3 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: 3m

Limit:

30MHz-230MHz 40 dB(μV/m) quasi-peak 230MHz-1GHz 47 dB(μV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

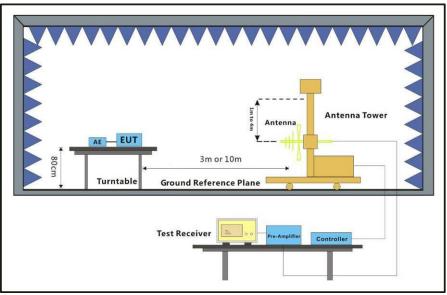
Pretest these a: Data transfer&Video play&Network_Charging mode to find the b: Data transfer&Video play&Network_Battery

worst case: The worst case

a: Data transfer&Video play&Network Charging

for final test:

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

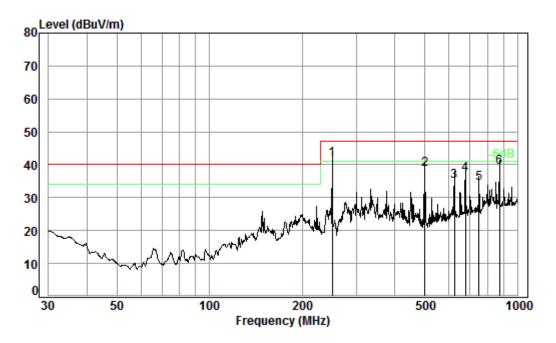
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 10998IT

Test Mode: a

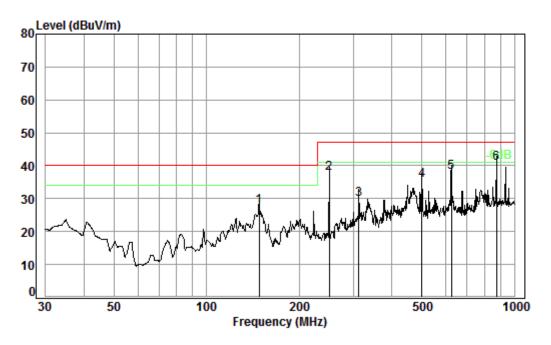
	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	250.30	1.68	12.31	26.54	54.29	41.74	47.00	-5.26
2	501.18	2.60	17.83	27.69	45.99	38.73	47.00	-8.27
3	625.08	2.75	20.50	27.51	39.16	34.90	47.00	-12.10
4	677.58	2.86	21.42	27.44	40.30	37.14	47.00	-9.86
5	750.11	3.06	21.70	27.35	37.04	34.45	47.00	-12.55
6	875.25	3.50	23.00	26.89	39.65	39.26	47.00	-7.74



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Mode:a; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 10998IT

Test Mode: a

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	148.44	1.32	8.86	26.91	44.36	27.63	40.00	-12.37
2	250.30	1.68	12.31	26.54	50.16	37.61	47.00	-9.39
3	312.18	1.94	14.34	26.50	40.08	29.86	47.00	-17.14
4	501.18	2.60	17.83	27.69	42.86	35.60	47.00	-11.40
5	625.08	2.75	20.50	27.51	42.27	38.01	47.00	-8.99
6 pp	875.25	3.50	23.00	26.89	41.17	40.78	47.00	-6.22



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6.4 Radiated Emissions (above 1GHz)

Test Requirement: AS/NZS CISPR 32:2015
Test Method: AS/NZS CISPR 32:2015

Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

1GHz-3GHz 70 dB(μ V/m) peak, 50 dB(μ V/m) average 3GHz-6GHz 74 dB(μ V/m) peak, 54dB(μ V/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 6000MHz

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

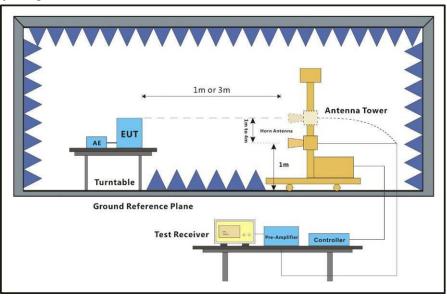
Pretest these a: Data transfer&Video play&Network_Charging mode to find the b: Data transfer&Video play&Network_Battery

worst case:

The worst case a: Data transfer&Video play&Network Charging

for final test:

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

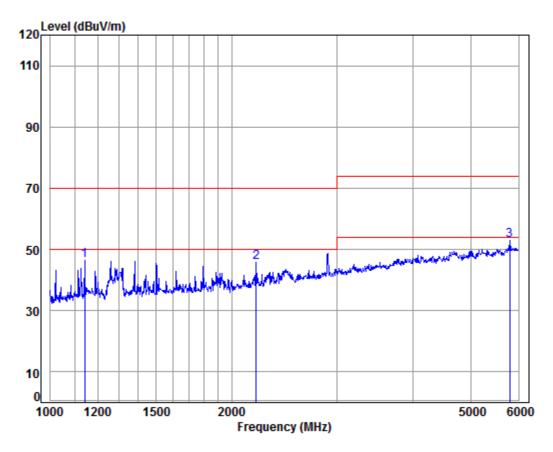
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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Mode:a; Polarization:Horizontal



Condition: 3m Horizontal Job No : 10995IT/10998IT

Mode : a

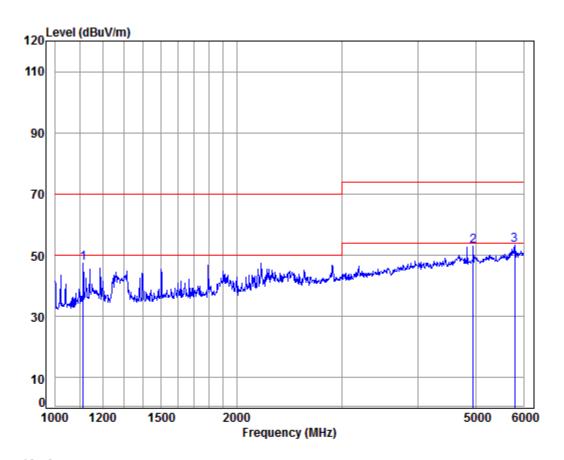
Out										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1139.738	4.17	24.17	37.78	55.73	46.29	70.00	-23.71	Peak	
2	2199.817	5.21	28.48	37.68	49.82	45.83	70.00	-24.17	Peak	
3	pp 5799.177	9.90	34.58	37.79	46.35	53.04	74.00	-20.96	Peak	



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Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

Job No : 10995IT/10998IT

Mode : a

Out	_										
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
											_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1113.497	4.06	24.04	37.78	57.09	47.41	70.00	-22.59	Peak	
2		4944.370	8.03	34.40	37.29	47.84	52.98	74.00	-21.02	Peak	
3	pp	5799.177	9.90	34.58	37.79	46.68	53.37	74.00	-20.63	Peak	



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7 Photographs

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



7.2 Asymmetric Mode Conducted Emissions (150kHz-30MHz) Test Setup



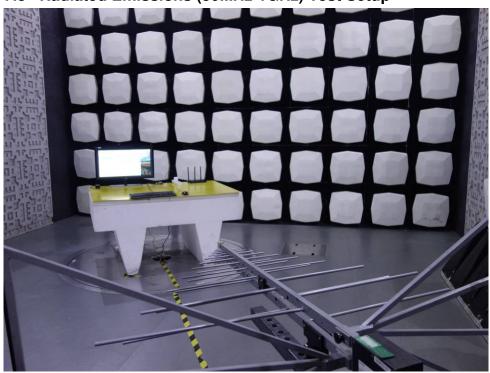
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7.3 Radiated Emissions (30MHz-1GHz) Test Setup

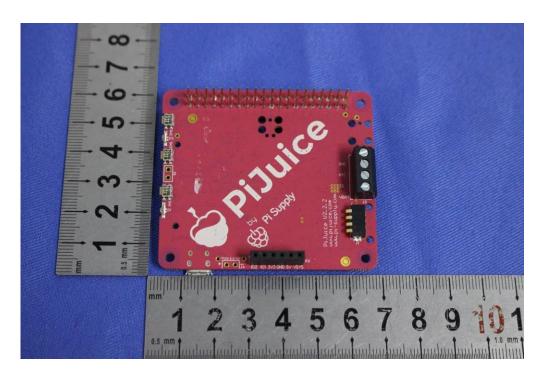


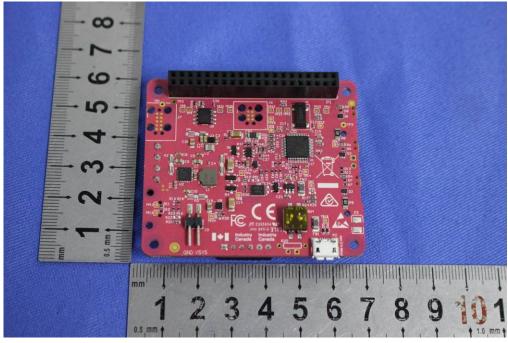


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7.4 EUT Constructional Details







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