

TEST REPORT

Reference No...... : WTS16S0961764E
FCC ID : 2AJXM-V6
Applicant..... : SUPERCOW TECHNOLOGY LIMITED
Address..... : FLAT C 23/F LUCKY PLAZA 315-321 LOCKHART ROAD WAN CHAI HONG KONG
Manufacturer : Alif Communications
Address..... : 10/F, Southeast Ind'l Bldg, 611-619 Castle Peak Road, Tusen Wan, NT, Hong Kong
Product Name..... : Mobile Phone
Model No..... : V6
Brand..... : GALIF
Standards : FCC PART15 SUBPART B: 2015
Date of Receipt sample : Sep. 27, 2016
Date of Test : Sep. 28 – Oct. 24, 2016
Date of Issue..... : Oct. 25, 2016
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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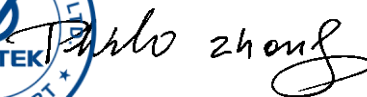
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Compiled by:



Zero Zhou / Test Engineer

Approved by:



Philo Zhong / Manager

1 Test Summary

Test Item	Test Requirement	Class	Test Method	Test Result
Power Line Conducted Emission (150kHz to 30MHz)	FCC PART 15, SUBPART B: 2015	Class B	ANSI C63.4: 2014	Pass
Radiated Emission 30MHz to 1GHz)	FCC PART 15, SUBPART B: 2015	Class B	ANSI C63.4: 2014	Pass
Radiated Emission (Above 1GHz)	FCC PART 15, SUBPART B: 2015	Class B	ANSI C63.4: 2014	Pass

Remark:

Pass Test item meets the requirement

Fail Test item does not meet the requirement

N/A Test case does not apply to the test object

2 Contents

	Page
COVER PAGE	1
1 TEST SUMMARY	2
2 CONTENTS	3
3 REPORT REVISION HISTORY	4
4 GENERAL INFORMATION	5
4.1 GENERAL DESCRIPTION OF E.U.T.	5
4.2 DETAILS OF E.U.T.	5
4.3 STANDARDS APPLICABLE FOR TESTING	5
4.4 TEST FACILITY	6
4.5 SUBCONTRACTED	6
4.6 ABNORMALITIES FROM STANDARD CONDITIONS	6
5 EQUIPMENT USED DURING TEST	7
5.1 EQUIPMENT LIST	7
5.2 DESCRIPTION OF SUPPORT UNITS	8
5.3 MEASUREMENT UNCERTAINTY	8
6 EMISSION TEST RESULTS	9
6.1 POWER LINE CONDUCTED EMISSION, 150KHZ TO 30MHZ	9
6.2 RADIATION EMISSION, 30MHZ TO 1000MHZ	12
6.3 RADIATION EMISSION, ABOVE 1000MHZ	15
7 PHOTOGRAPHS – TEST SETUP FCC ID 2AJXM-V6	18
7.1 PHOTOGRAPH –POWER LINE CONDUCTED EMISSION TEST SETUP AT TEST SITE 1#	18
7.2 PHOTOGRAPH – RADIATED EMISSION TEST SETUP FOR 30~1000MHZ AT TEST SITE 2#	18
7.3 PHOTOGRAPH – RADIATED EMISSION TEST SETUP FOR ABOVE 1GHZ AT TEST SITE 1#	19

3 Report Revision History

Report No.	Report Version	Description	Issue Date
WTS16S0961764E	NONE	Original	Oct. 25, 2016

4 General Information

4.1 General Description of E.U.T.

Product Name	: Mobile Phone
Model No.	: V6
Model Description	: N/A
GSM Band(s)	: GSM 850/1900MHz
GPRS Class	: 12
WCDMA Band(s)	: N/A
LTE Bnad(s)	: N/A
Wi-Fi Specification	: N/A
Bluetooth Version	: Bluetooth v3.0+EDR
GPS	: N/A
NFC	: N/A
Hardware Version	: KC5115F.MAIN PCB(V4.2)
Software Version	:C32_signature_V01_0629
Storage Location	: Internal Storage

4.2 Details of E.U.T.

Technical Data	: Battery DC 3.7V, 500mAh DC 5.7V, 0.8A, charging from adapter (Adapter Input: 100-240V~50/60Hz 0.125A)
Adapter	: Manufacture: Shenzhen ZhengHengda Technology Co. Ltd. Model No.: ZHD-002

4.3 Standards Applicable for Testing

The tests were performed according to following standards:

FCC PART 15, SUBPART B: Electronic Code of Federal Regulations- Unintentional Radiators 2015

4.4 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A-1**

Waltek Services (Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A-1, October 15, 2015.

- **FCC Test Site 1#– Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

- **FCC Test Site 2#– Registration No.: 328995**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

4.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.6 Abnormalities from Standard Conditions

None.

5 Equipment Used during Test

5.1 Equipment List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	Apr.19,2016	Apr.18,2017
2.	LISN	R&S	ENV216	101215	Apr.19,2016	Apr.18,2017
3.	Cable	Top	TYPE16(3.5M)	-	Apr.19,2016	Apr.18,2017
Conducted Emissions Test Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	Apr.19,2016	Apr.18,2017
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Apr.19,2016	Apr.18,2017
3.	Limiter	York	MTS-IMP-136	261115-001-0024	Apr.19,2016	Apr.18,2017
4.	Cable	LARGE	RF300	-	Apr.19,2016	Apr.18,2017
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	Apr.19,2016	Apr.18,2017
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Apr.19,2016	Apr.18,2017
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2016	Apr.18,2017
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Apr.19,2016	Apr.18,2017
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2016	Apr.18,2017
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2016	Apr.18,2017
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Apr.19,2016	Apr.18,2017
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.10,2016	Apr.09,2017
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Apr.19,2016	Apr.18,2017
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Apr.19,2016	Apr.18,2017
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Apr.19,2016	Apr.18,2017

4	Cable	HUBER+SUHNER	CBL2	525178	Apr.19,2016	Apr.18,2017
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Apr.19,2016	Apr.18,2017
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Apr.19,2016	Apr.18,2017
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	Apr.19,2016	Apr.18,2017

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
MacBook Air	APPLE	A1465	C17KTQDNF5N7
Power Supply	LPS DELTA ELECTRONICS UIANG CO.,LTD	ADP-45GD	-

5.3 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±3.64dB	(1)
Radiation Emission	30MHz~1000MHz	±5.03dB	(1)
	1GHz~18GHz	±5.47dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

6 Emission Test Results

6.1 Power Line Conducted Emission, 150kHz to 30MHz

Test Requirement : FCC PART 15, SUBPART B

Test Method : ANSI C63.4 2014

Test Result : Pass

Frequency Range : 150kHz to 30MHz

Class : Class B

Limit :

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 to 0.5	66 t 56*	56 to 46*
0.5 to 5	56	60
5 to 30	60	50

6.1.1 E.U.T. Operation

Operating Environment:

Temperature : 23°C

Humidity : 53.6%RH

Atmospheric Pressure : 101kPa

EUT Operation:

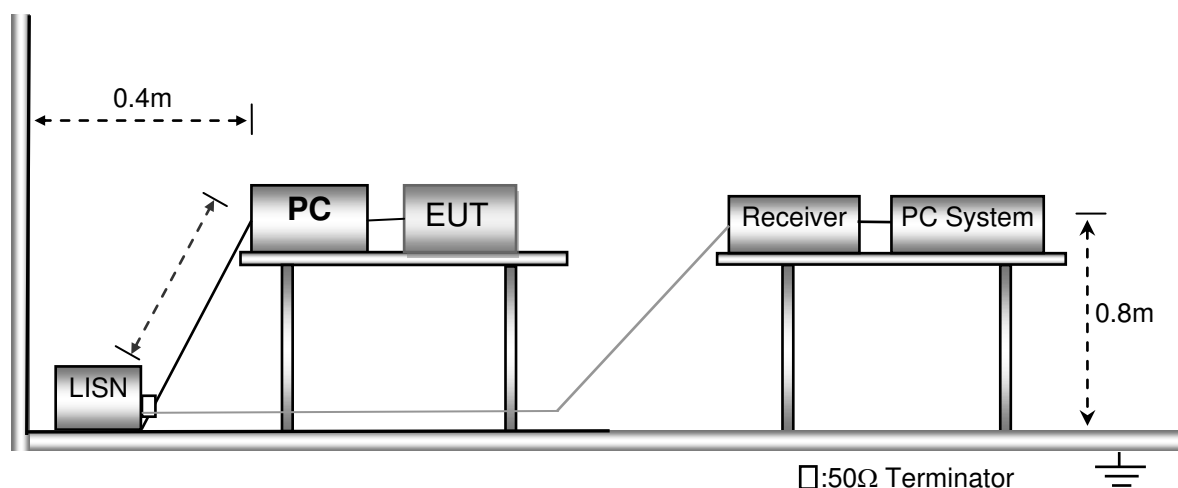
Input Voltage : DC 5.7V by Adapter Input AC 120V/60Hz

Operating Mode : Data transmitting mode, Earphone mode, Adapter mode

Remark : The worse case Data transmitting mode is under the condition of AC 120V/60Hz adapter input and the data is shown as follow.

6.1.2 Block Diagram of Test Setup

The Mains Terminals Disturbance Voltage tests were performed in accordance with the ANSI C63.4.

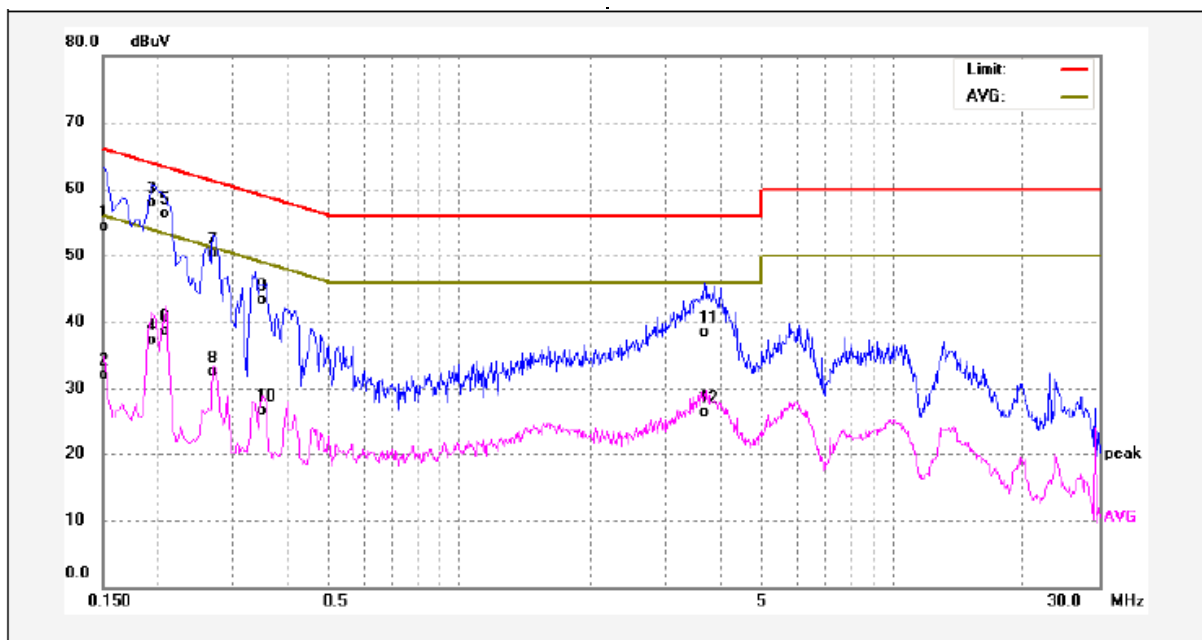


6.1.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line. According to the data in below section 6.1.4, the EUT complied with the FCC PART 15, SUBPART B standards.

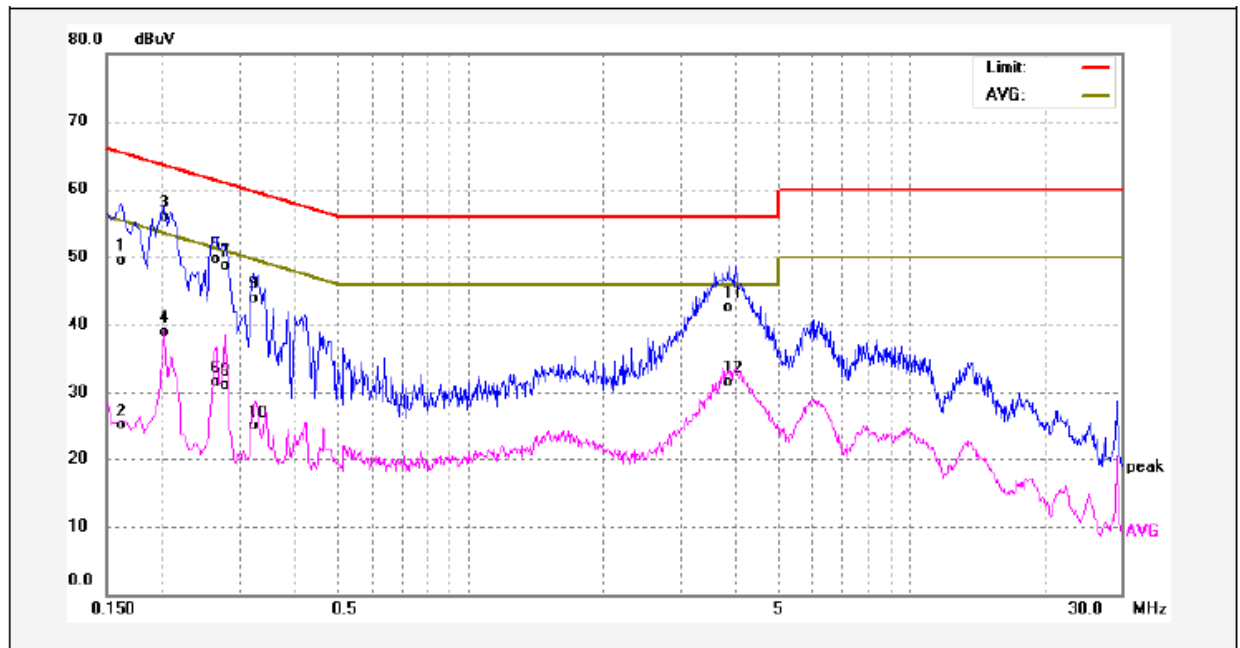
6.1.4 Power Line Conducted Emission Test Data

Live Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1500	43.94	10.29	54.23	65.99	-11.76	QP	
2	0.1500	21.89	10.29	32.18	55.99	-23.81	AVG	
3	0.1940	47.59	10.26	57.85	63.86	-6.01	QP	
4	0.1940	26.98	10.26	37.24	53.86	-16.62	AVG	
5	0.2100	46.06	10.26	56.32	63.20	-6.88	QP	
6	0.2100	28.41	10.26	38.67	53.20	-14.53	AVG	
7	0.2700	39.95	10.27	50.22	61.12	-10.90	QP	
8	0.2700	22.22	10.27	32.49	51.12	-18.63	AVG	
9	0.3500	32.92	10.29	43.21	58.96	-15.75	QP	
10	0.3500	16.41	10.29	26.70	48.96	-22.26	AVG	
11	3.6940	27.99	10.51	38.50	56.00	-17.50	QP	
12	3.6940	16.08	10.51	26.59	46.00	-19.41	AVG	

Neutral Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1620	39.27	10.28	49.55	65.36	-15.81	QP	
2	0.1620	14.82	10.28	25.10	55.36	-30.26	AVG	
3	0.2020	45.57	10.26	55.83	63.52	-7.69	QP	
4	0.2020	28.73	10.26	38.99	53.52	-14.53	AVG	
5	0.2620	39.48	10.26	49.74	61.36	-11.62	QP	
6	0.2620	21.15	10.26	31.41	51.36	-19.95	AVG	
7	0.2779	38.44	10.27	48.71	60.88	-12.17	QP	
8	0.2779	20.74	10.27	31.01	50.88	-19.87	AVG	
9	0.3220	33.65	10.28	43.93	59.65	-15.72	QP	
10	0.3220	14.69	10.28	24.97	49.65	-24.68	AVG	
11	3.8540	32.00	10.51	42.51	56.00	-13.49	QP	
12	3.8540	20.93	10.51	31.44	46.00	-14.56	AVG	

6.2 Radiation Emission, 30MHz to 1000MHz

Test Requirement : FCC PART 15, SUBPART B
 Test Method : ANSI C63.4 2014
 Test Result : Pass
 Frequency Range : 30MHz to 1000MHz
 Class. : Class B
 Limit..... :

Frequency (MHz)	Distance (Meter)	Limit (dB μ V/m)
		Quas -peak
30 to 88	3	40
88 to 216	3	43.5
216 to 960	3	46
960 to 1000	3	54

6.2.1 E.U.T. Operation

Operating Environment:

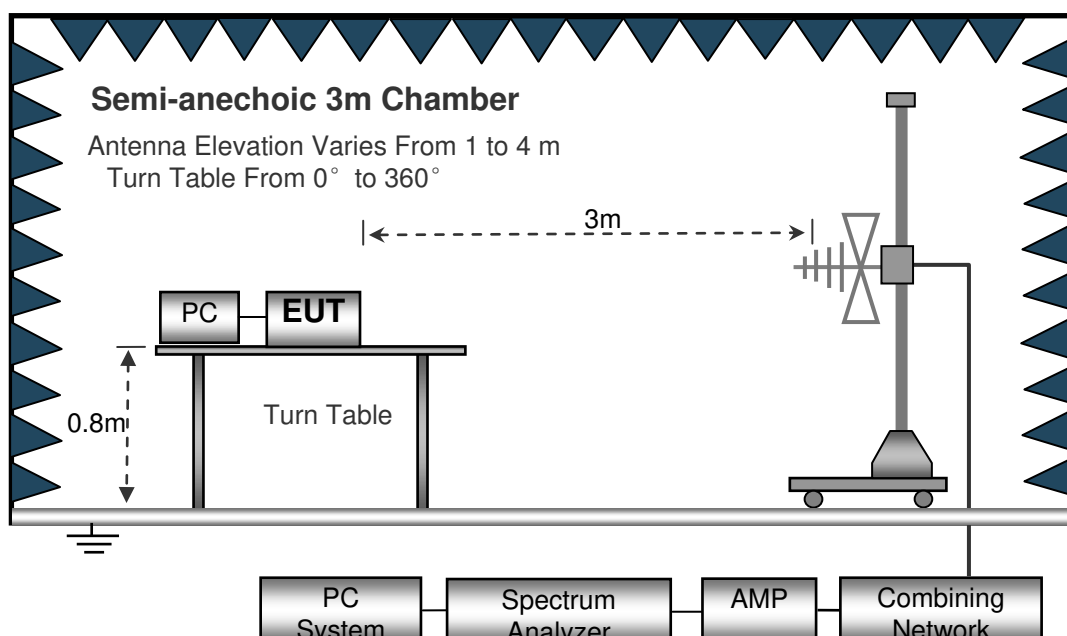
Temperature : 22.5°C
 Humidity : 52.6%RH
 Atmospheric Pressure : 101.2kPa

EUT Operation:

Input Voltage : DC 5.7V by Adapter Input AC 120V/60Hz
 Operating Mode : Data transmitting with PC mode, Earphone mode
 Remark : The worse case Data transmitting with PC mode is under the condition of AC 120V/60Hz adapter input and the data is shown as follow.

6.2.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

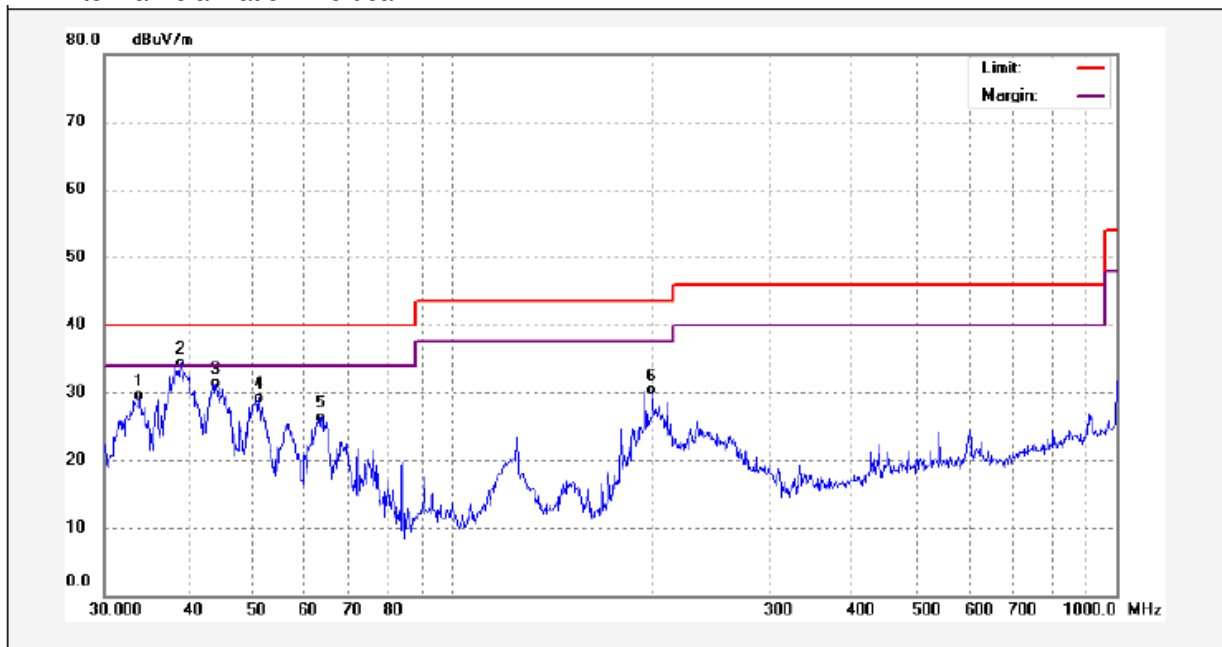


6.2.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Quasi-peak measurements were performed if peak emissions were within 6dB of the Quasi-peak limit line.

6.2.4 Radiated Emission Test Data, 30MHz to 1000MHz

Antenna Polarization: Vertical

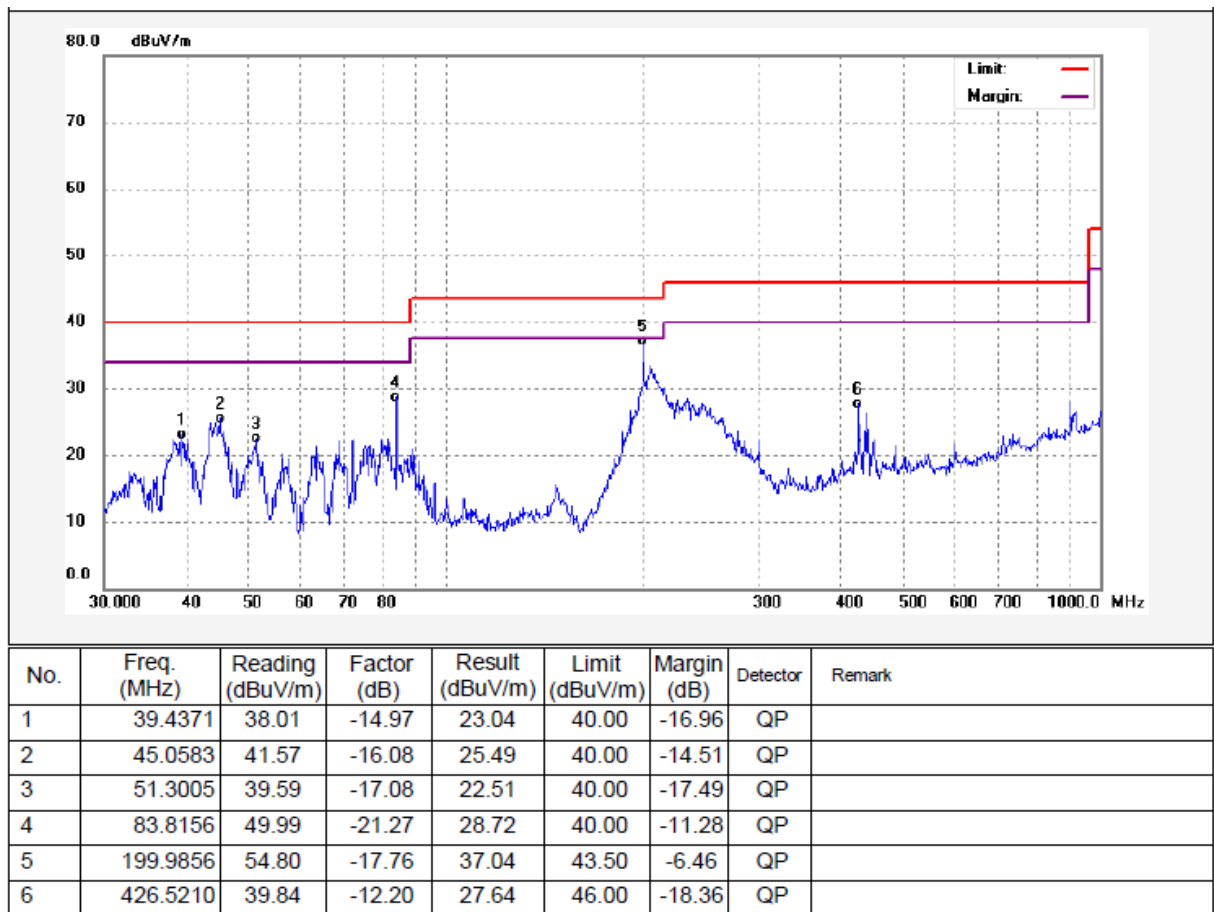


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	33.7986	45.67	-16.21	29.46	40.00	-10.54	QP	
2	39.0244	49.43	-15.07	34.36	40.00	-5.64	QP	
3	44.1202	46.77	-15.38	31.39	40.00	-8.61	QP	
4	51.1209	46.24	-17.04	29.20	40.00	-10.80	QP	
5	63.5356	45.66	-19.30	26.36	40.00	-13.64	QP	
6	199.9855	48.13	-17.76	30.37	43.50	-13.13	QP	

Factor= antenna factor + cable loss - preamplifier factor

Result = Reading + Factor

Antenna Polarization: Horizontal



Factor= antenna factor + cable loss - preamplifier factor

Result = Reading + Factor

6.3 Radiation Emission, Above 1000MHz

Test Requirement : FCC PART 15, SUBPART B
 Test Method : ANSI C63.4 2014
 Test Result..... : Pass
 Frequency Range : 1GHz~18GHz
 Class. : Class B
 Limit. :

Frequency Range (MHz)	Distance (Meter)	Average Limit dB(uV/m)	Peak Limit (dBuV/m)
Above 1GHz	3	54	74

6.3.1 E.U.T. Operation

Operating Environment:

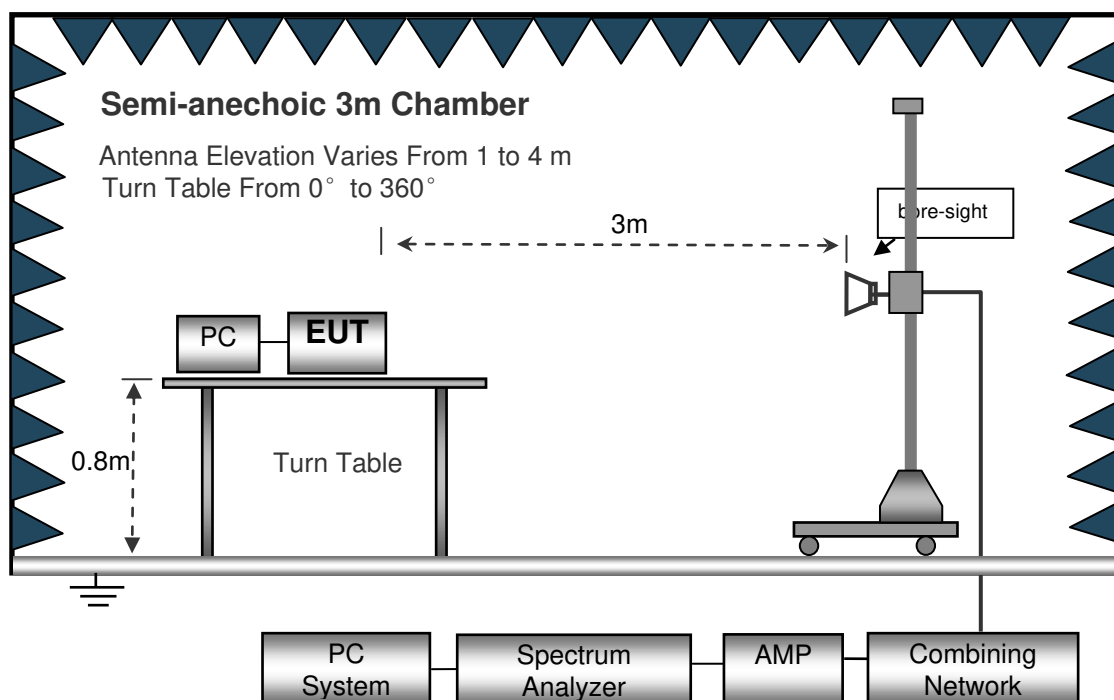
Temperature..... : 22.4°C
 Humidity : 52.3%RH
 Atmospheric Pressure..... : 101.3kPa

EUT Operation:

Input Voltage : DC 5.7V by Adapter Input AC 120V/60Hz
 Operating Mode : Data transmitting with PC mode, Earphone mode
 Remark..... : The worse case Data transmitting mode is under the condition of AC 120V/60Hz adapter input and the data is shown as follow.

6.3.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

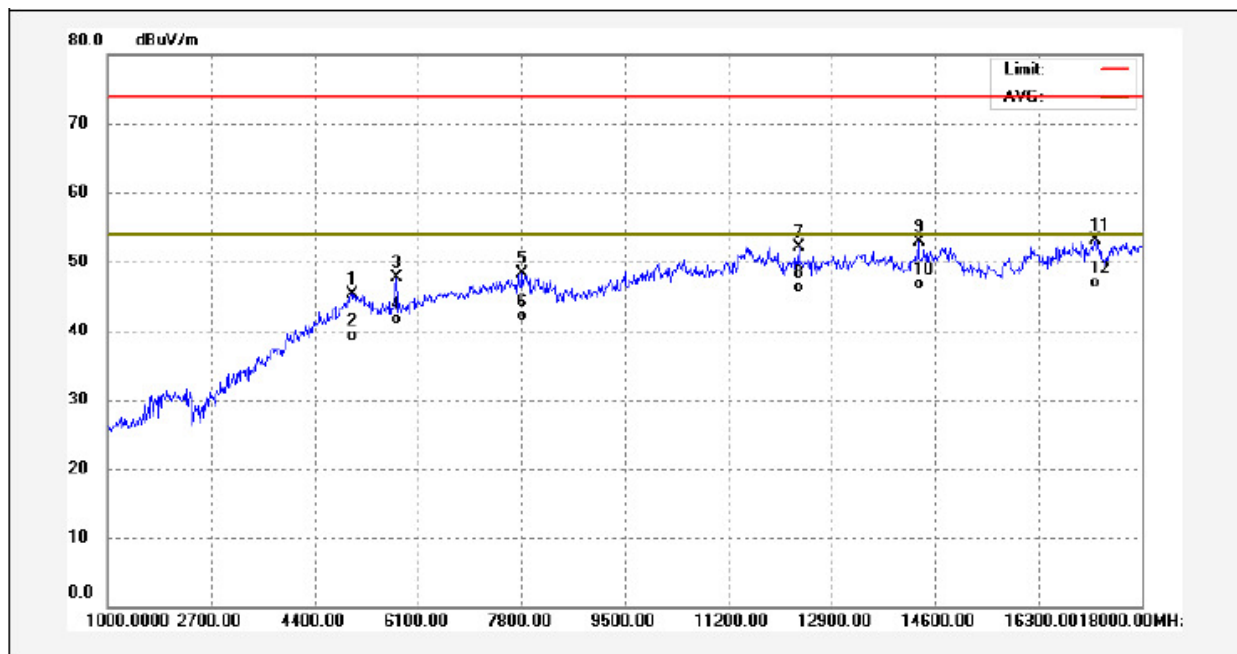


6.3.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Average measurements were performed if peak emissions were within 6dB of the average limit line

6.3.4 Radiated Emission Test Data, Above 1000MHz

Antenna Polarization: Vertical

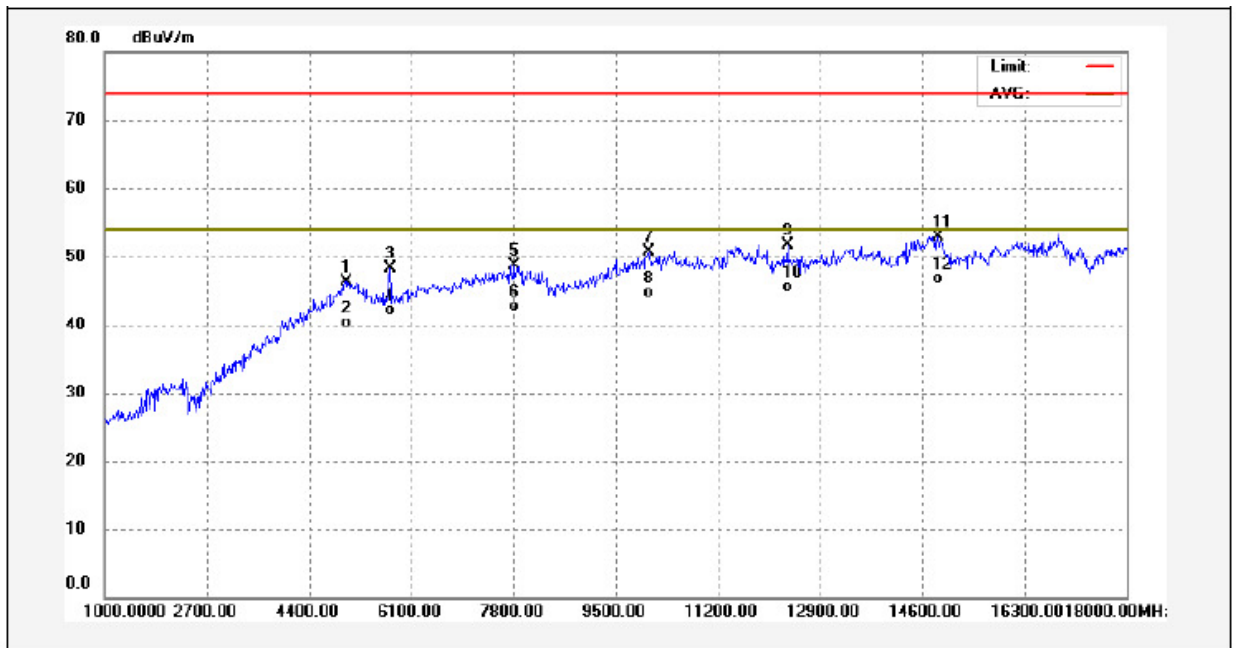


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	5012.000	46.22	-0.89	45.33	74.00	-28.67	peak	
2	5012.000	40.11	-0.89	39.22	54.00	-14.78	AVG	
3	5743.000	50.00	-2.26	47.74	74.00	-26.26	peak	
4	5743.000	43.87	-2.26	41.61	54.00	-12.39	AVG	
5	7800.000	46.88	1.41	48.29	74.00	-25.71	peak	
6	7800.000	40.77	1.41	42.18	54.00	-11.82	AVG	
7	12356.000	46.94	5.25	52.19	74.00	-21.81	peak	
8	12356.000	41.06	5.25	46.31	54.00	-7.69	AVG	
9	14328.000	43.28	9.65	52.93	74.00	-21.07	peak	
10	14328.000	37.14	9.65	46.79	54.00	-7.21	AVG	
11	17235.000	40.68	12.37	53.05	74.00	-20.95	peak	
12	17235.000	34.56	12.37	46.93	54.00	-7.07	AVG	

Factor= antenna factor + cable loss - preamplifier factor

Result = Reading + Factor

Antenna Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	5012.000	47.22	-0.89	46.33	74.00	-27.67	peak	
2	5012.000	41.10	-0.89	40.21	54.00	-13.79	AVG	
3	5743.000	50.50	-2.26	48.24	74.00	-25.76	peak	
4	5743.000	44.37	-2.26	42.11	54.00	-11.89	AVG	
5	7800.000	47.38	1.41	48.79	74.00	-25.21	peak	
6	7800.000	41.26	1.41	42.67	54.00	-11.33	AVG	
7	10044.000	47.36	3.41	50.77	74.00	-23.23	peak	
8	10044.000	41.24	3.41	44.65	54.00	-9.35	AVG	
9	12356.000	46.44	5.25	51.69	74.00	-22.31	peak	
10	12356.000	40.30	5.25	45.55	54.00	-8.45	AVG	
11	14855.000	42.58	10.31	52.89	74.00	-21.11	peak	
12	14855.000	36.45	10.31	46.76	54.00	-7.24	AVG	

Factor= antenna factor + cable loss - preamplifier factor

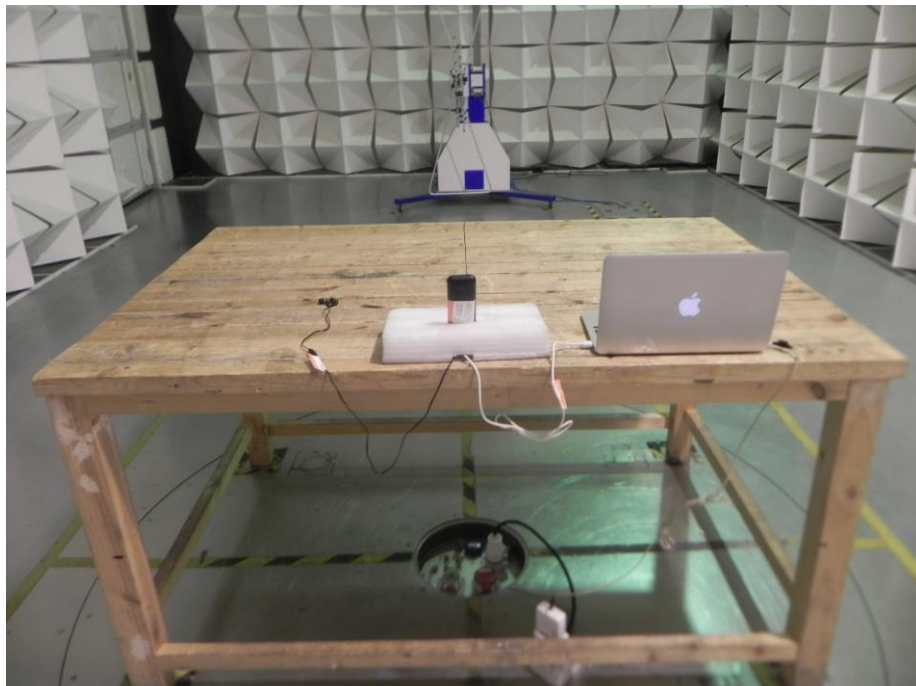
Result = Reading + Factor

7 Photographs – Test Setup FCC ID 2AJXM-V6

7.1 Photograph –Power Line Conducted Emission Test Setup at Test Site 1#



7.2 Photograph – Radiated Emission Test Setup for 30~1000MHz at Test Site 2#



7.3 Photograph – Radiated Emission Test Setup for Above 1GHz at Test Site 1#



=====End of Report=====