

# TEST REPORT

Reference No..... : WTF18S09122915-2W  
FCC ID ..... : 2AAGEAV5AV72  
Applicant..... : Chengdu Vantron Technology, Ltd.  
Address..... : No.5 Gaopeng Road, Hi-Tech Zone, Chengdu, Sichuan, P.R. China  
610045  
Manufacturer ..... : The same as above  
Address..... : The same as above  
Product..... : M2M Gateway  
Model(s)..... : AV5, AV7  
Brand..... : NA  
Standards..... : FCC CFR47 Part 15 Section 15.225: 2016  
Date of Receipt sample .... : 2018-09-04  
Date of Test ..... : 2018-09-05 to 2018-09-28  
Date of Issue..... : 2018-09-29  
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.

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## 2 Laboratories Introduction

**Waltek Services Test Group Ltd.** is one of the largest and the most comprehensive third party testing organizations in China, our headquarter located in Shenzhen (CNAS Registration No. L3110, A2LA Certificate Number: 4243.01) and have branches in Foshan (CNAS Registration No. L6478), Dongguan (CNAS Registration No. L9950), Zhongshan, Suzhou (CNAS Registration No. L7754), Ningbo and Hong Kong, Our test capability covered four large fields: safety test. Electronic Magnetic Compatibility(EMC), reliability and energy performance, Chemical test. Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC(The Federal Communications Commission), CPSC(Consumer Product Safety Commission), CEC(California energy efficiency), IC(Industry Canada) and ELI(Efficient Lighting Initiative). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as UL, Intertek(ETL-SEMKO), CSA, TÜV Rheinland, TÜV SÜD, etc. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

### Waltek Services (Shenzhen) Co., Ltd.

#### A. Accreditations for Conformity Assessment (International)

Country/Region	Accreditation Body	Scope	Note
USA	<b>CNAS</b> <b>(Registration No.: L3110)</b> <b>A2LA</b> <b>(Certificate No.: 4243.01)</b>	FCC ID \ DOC \ VOC	1
Canada		IC ID \ VOC	2
Japan		MIC-T \ MIC-R	-
Europe		EMCD \ RED	-
Taiwan		NCC	-
Hong Kong		OFCA	-
Australia		RCM	-
India		WPC	-
Thailand	<b>International Services</b>	NTC	-
Singapore		IDA	-
Note: 1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476. 2. IC Canada Registration No.: 7760A			

#### B. TCBs and Notify Bodies Recognized Testing Laboratory.

Recognized Testing Laboratory of ...	Notify body number
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Waltek Services (Shenzhen) Co.,Ltd.  
<http://www.waltek.com.cn>

TUV Rheinland	Optional.
Intertek	
TUV SUD	
SGS	
Phoenix Testlab GmbH	0700
Element Materials Technology Warwick Ltd	0891
Timco Engineering, Inc.	1177
Eurofins Product Service GmbH	0681

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**3 Revision History**

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF18S09122915 -2W	2018-09-04	2018-09-04 to 2019-09- 28	2018-09-29	original	-	Vaild

## 4 General Information

### 4.1 General Description of E.U.T.

Product:	M2M Gateway
Model(s):	AV5, AV7
Model Description:	The models are different in size and appearance. Two models were tested. The worst data of AV 5 is recorded in the report.
WCDMA Band(s)	Band2/5
LTE Band(s):	FDD Band 2/4/5/12/13/17
Wi-Fi Specification:	2.4G-802.11b/g/n HT20 802.11n HT40
NFC:	Support
Highest frequency (Exclude Radio):	1.0GHz
Note:	NA.

### 4.2 Details of E.U.T.

Operation Frequency:	NFC: 13.56MHz
Type of Modulation:	NFC: ASK, 2ASK
Antenna installation:	NFC: Loop antenna
Ratings:	DC 12-34V by DC Power DC 5V 1A by PC

### 4.3 Channel List

NFC Test Mode		
Channel No.	Channel No.	Frequency (MHz)
0	0	13.56MHz

### 4.4 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests; the worst data were recorded and reported.

Test mode	Lower channel	Middle channel	Upper channel
Transmitting	N/A	13.56MHz	N/A

## 5 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207	PASS
Radiated Emission	15.205(a) 15.209 15.225	PASS
Frequency Tolerance	15.225	PASS
20dB Bandwidth	15.215(c)	PASS
Antenna Requirement	15.203	PASS
Note: C=Compliance; NC=Not Compliance; NT=Not Tested; N/A=Not Applicable.		



## 6 Equipment Used during Test

### 6.1 Equipments 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	2017-09-12	2018-09-11
2.	LISN	R&S	ENV216	101215	2017-09-12	2018-09-11
3.	Cable	Top	TYPE16(3.5M)	-	2017-09-12	2018-09-11
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	2017-09-12	2018-09-11
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	2017-09-12	2018-09-11
3.	Limiter	York	MTS-IMP-136	261115-001-0024	2017-09-12	2018-09-11
4.	Cable	LARGE	RF300	-	2017-09-12	2018-09-11
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP	100091	2018-04-29	2019-04-28
2	Amplifier	Agilent	8447D	2944A10178	2018-01-13	2019-01-12
3	Active Loop Antenna	Beijing Dazhi	ZN30900A	0703	2017-10-17	2018-10-16
4	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	33 6	2018-04-09	2019-04-08
5	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2017-09-12	2018-09-11
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2018-04-09	2019-04-08
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2018-04-13	2019-04-12
8	Coaxial Cable (above 1GHz)	Top	1GHz-18GHz	EW02014-7	2018-04-13	2019-04-12
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	2018-04-13	2019-04-12
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2018-04-09	2019-04-08
3	Amplifier	ANRITSU	MH648A	M43381	2018-04-13	2019-04-12
4	Cable	HUBER+SUHNER	CBL2	525178	2018-04-13	2019-04-12

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	2017-09-12	2018-09-11
2.	Spectrum Analyzer (9k~6GHz)	R&S	FSL6	100959	2017-09-12	2018-09-11
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	2017-09-12	2018-09-11

## 6.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	$\pm 1.0$ dB
RF Power Density	$\pm 2.2$ dB
Radiated Spurious Emissions test	$\pm 5.03$ dB (Bilog antenna 30M~1000MHz)
	$\pm 5.47$ dB (Horn antenna 1000M~25000MHz)
Confidence interval: 95%. Confidence factor:k=2	

## 6.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

## 7 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.10:2013
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	

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

### 7.1 E.U.T. Operation

Operating Environment :

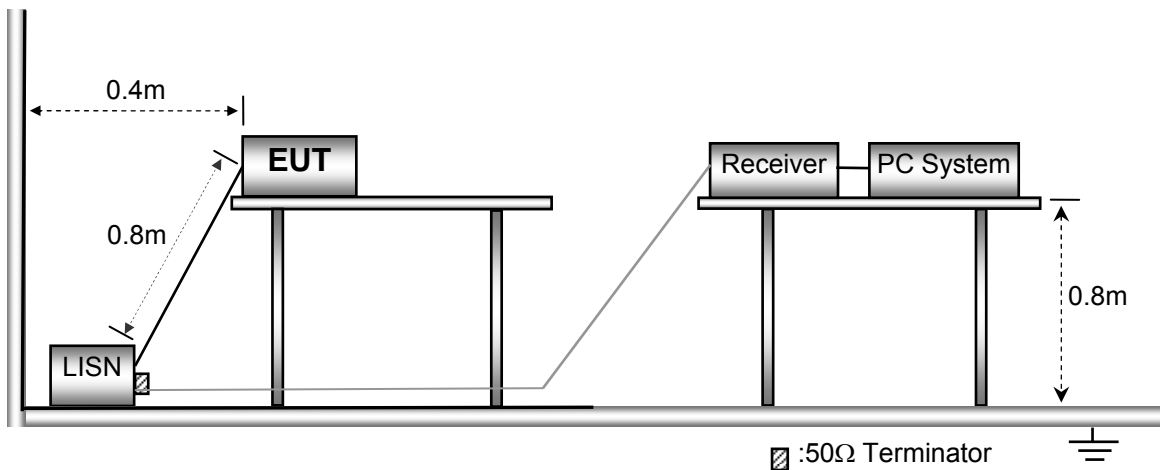
Temperature:	25.5 °C
Humidity:	51 % RH
Atmospheric Pressure:	101.2kPa

EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

### 7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013

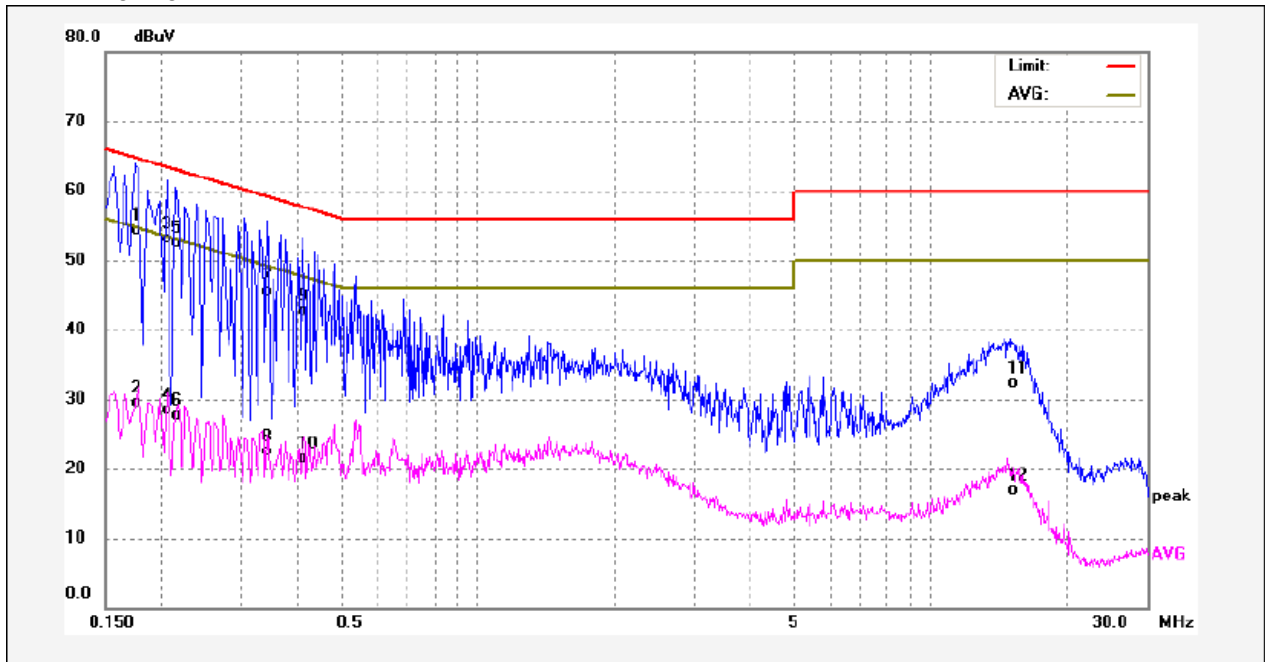


### 7.3 Measurement Description

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.

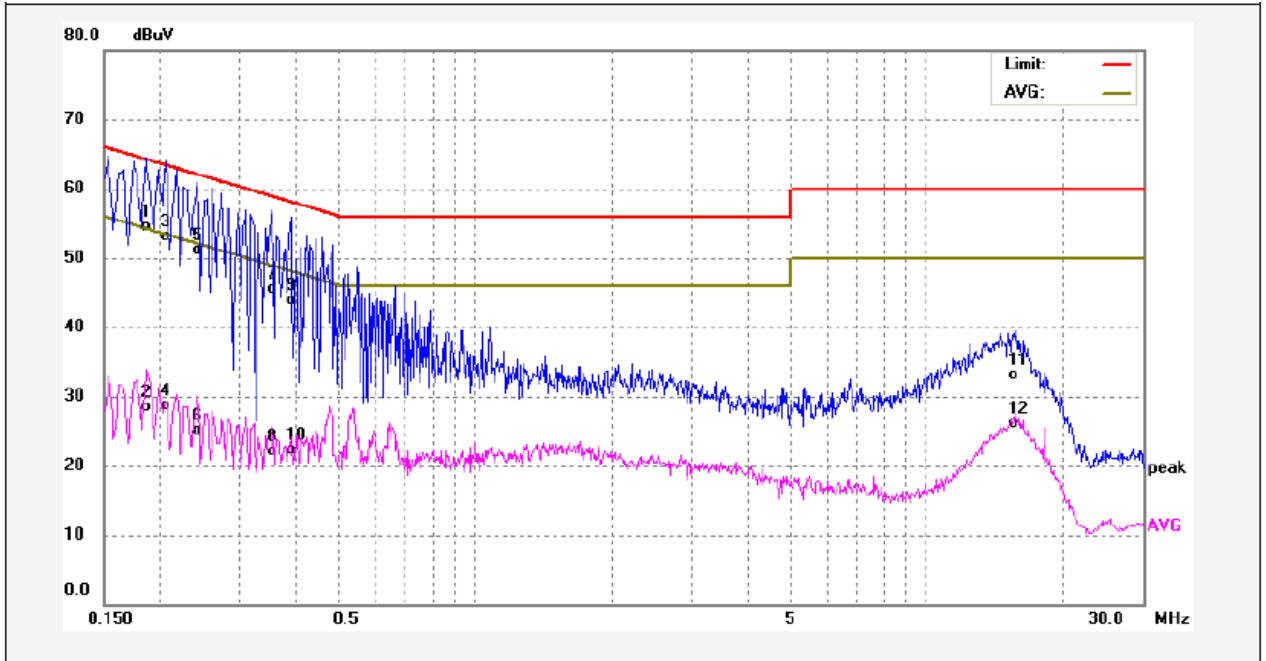
### 7.4 Test Result

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1740	44.35	9.87	54.22	64.76	-10.54	QP	
2	0.1740	19.60	9.87	29.47	54.76	-25.29	AVG	
3	0.2060	43.12	9.93	53.05	63.36	-10.31	QP	
4	0.2060	18.53	9.93	28.46	53.36	-24.90	AVG	
5	0.2140	42.57	9.94	52.51	63.04	-10.53	QP	
6	0.2140	17.72	9.94	27.66	53.04	-25.38	AVG	
7	0.3420	35.51	10.05	45.56	59.15	-13.59	QP	
8	0.3420	12.54	10.05	22.59	49.15	-26.56	AVG	
9	0.4100	32.60	10.03	42.63	57.65	-15.02	QP	
10	0.4100	11.49	10.03	21.52	47.65	-26.13	AVG	
11	15.0500	21.96	10.38	32.34	60.00	-27.66	QP	
12	15.0500	6.46	10.38	16.84	50.00	-33.16	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1860	44.62	9.89	54.51	64.21	-9.70	QP	
2	0.1860	18.63	9.89	28.52	54.21	-25.69	AVG	
3	0.2060	43.20	9.93	53.13	63.36	-10.23	QP	
4	0.2060	18.76	9.93	28.69	53.36	-24.67	AVG	
5	0.2420	41.07	9.99	51.06	62.02	-10.96	QP	
6	0.2420	15.09	9.99	25.08	52.02	-26.94	AVG	
7	0.3540	35.52	10.06	45.58	58.87	-13.29	QP	
8	0.3540	12.00	10.06	22.06	48.87	-26.81	AVG	
9	0.3899	33.89	10.04	43.93	58.06	-14.13	QP	
10	0.3899	12.20	10.04	22.24	48.06	-25.82	AVG	
11	15.7620	22.77	10.39	33.16	60.00	-26.84	QP	
12	15.7620	15.64	10.39	26.03	50.00	-23.97	AVG	

## 8 Radiated Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209

Test Method: ANSI C63.10

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

### 8.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 101.2kPa

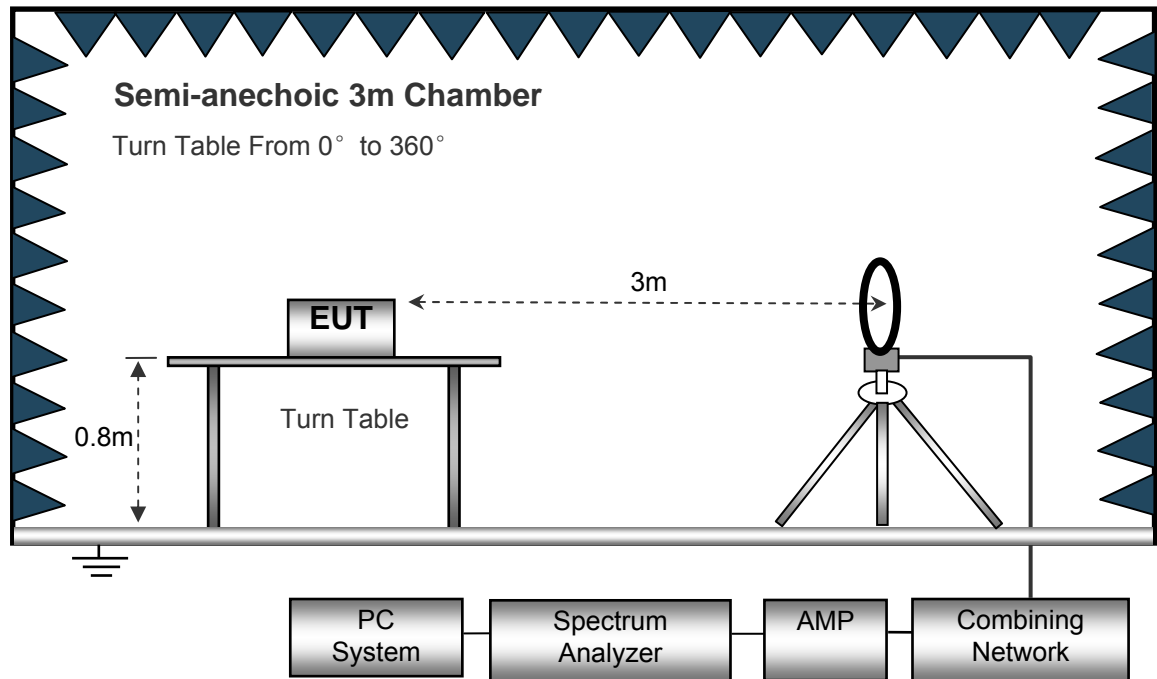
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

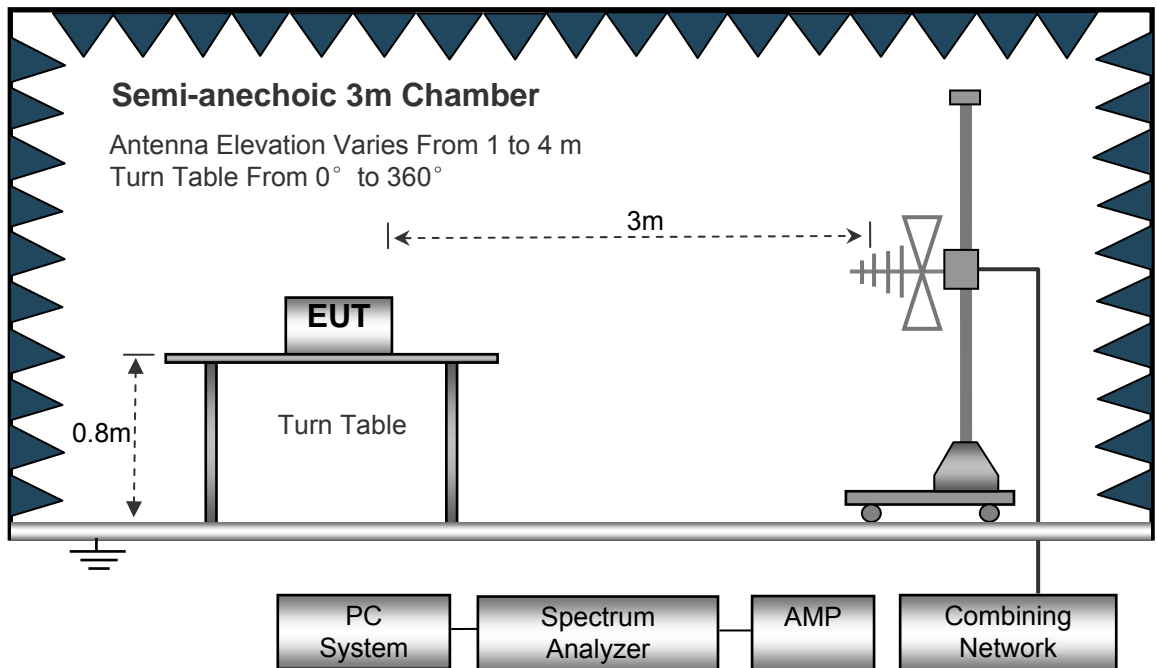
## 8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10: 2013

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



### 8.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed ..... Auto  
 IF Bandwidth..... 10kHz  
 Video Bandwidth..... 10kHz  
 Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

Sweep Speed ..... Auto  
 Detector ..... PK  
 Resolution Bandwidth..... 100kHz  
 Video Bandwidth..... 300kHz

### 8.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the Z position. So the data shown was the Z position only.

### 8.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$



## 8.6 Summary of Test Results

Test Frequency: 9 kHz ~ 30MHz Note: Correct factor = Cable loss + Antenna factor

Frequency (MHz)	Receiver Reading (QP) (dB $\mu$ V) @3m	Turn table Angle Degree	RX Antenna		Corrected Factor (dB/m)	Corrected Amplitude (QP) (dB $\mu$ V/m) @3m	FCC Part 15.225	
			Height (m)	Polar (H/V)			Limit (dB $\mu$ V/ m)@3m	Margin (dB)
13.56	56.21	120	1.9	H	19.68	75.89	124	-48.11
13.56	49.36	312	1.5	V	19.68	69.04	124	-54.96

Frequency (MHz)	Receiver Reading	Detector	Correct factor	Extrapolation factor	Measurement results (calculated)	Limits	Margin
	dB $\mu$ V @3m	QP	dB/m	dB	dB $\mu$ V/m @30m	dB $\mu$ V/m @30m	dB
5.268	32.59	QP	20.20	40.00	12.79	29.54	-16.75
12.547	35.64	QP	19.90	40.00	15.54	29.54	-14.00

Frequency Range (MHz)	Frequency (MHz)	Maximum Reading	Detector	Correct factor	Extrapolation factor	Measurement results (calculated)	Limits	Margin
		dB $\mu$ V @3m	QP	dB/m	dB	dB $\mu$ V/m @30m	dB $\mu$ V/m @30m	dB
13.110~ 13.41	13.395	30.15	QP	21.55	40	11.70	40.51	-28.81
13.410~ 13.553	13.532	35.26	QP	21.55	40	16.81	50.47	-33.36
13.567~ 13.71	13.569	36.21	QP	21.55	40	17.76	50.47	-32.71
13.710~ 14.01	13.704	29.36	QP	21.55	40	10.91	40.51	-29.6

**Test Frequency: 30MHz ~ 1GHz**

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.225/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V) @3m	(QP)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m) @3m	(dB $\mu$ V/m) @3m	(dB)
33.25	31.25	QP	142	1.2	H	-14.30	16.95	40.00	-23.05
33.25	32.65	QP	208	2.0	V	-14.30	18.35	40.00	-24.65
221.36	35.29	QP	48	1.8	H	-13.58	21.71	46.00	-24.29
221.36	39.65	QP	109	1.6	V	-13.58	26.07	46.00	-19.93
516.69	38.45	QP	201	1.7	H	-5.63	32.82	46.00	-13.18
516.69	38.69	QP	198	1.6	V	-5.63	33.06	46.00	-12.94

## 9 Frequency Tolerance

Test Requirement: FCC Part15.225

Test Method: ANSI C63.10: 2013

Limit The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### 9.1 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Centre Frequency = fundamental frequency, RBW=30 Hz, VBW= 100 Hz, Span =3 kHz.
4. Set SPA Max hold. Mark peak.

### 9.2 Test Result

Power Supply	Temperature (°C)	Measured Frequency (MHz)	Frequency Error	Part 15.225 Limit
DC 5V	-20	13.5636	0.0265%	±0.01%
	-10	13.5629	0.0214%	±0.01%
	0	13.5626	0.0194%	±0.01%
	+10	13.5629	0.0211%	±0.01%
	+20	13.5633	0.0241%	±0.01%
	+30	13.5635	0.0260%	±0.01%
	+40	13.5620	0.0147%	±0.01%
	+50	13.5634	0.0254%	±0.01%
DC 3.75 V	-20	13.5604	0.0033%	±0.01%
	-10	13.5612	0.0088%	±0.01%
	0	13.5617	0.0123%	±0.01%

	+10	13.5607	0.0055%	±0.01%
	+20	13.5614	0.0100%	±0.01%
	+30	13.5618	0.0131%	±0.01%
	+40	13.5604	0.0029%	±0.01%
	+50	13.5604	0.0027%	±0.01%
DC5.75V	-20	13.5608	0.0056%	±0.01%
	-10	13.5612	0.0088%	±0.01%
	0	13.5622	0.0162%	±0.01%
	+10	13.5608	0.0062%	±0.01%
	+20	13.5610	0.0071%	±0.01%
	+30	13.5606	0.0047%	±0.01%
	+40	13.5617	0.0122%	±0.01%
	+50	13.5615	0.0108%	±0.01%

## 10 20dB Bandwidth

Test Requirement: FCC Part15.215(C)

Test Method: ANSI C63.10: 2013

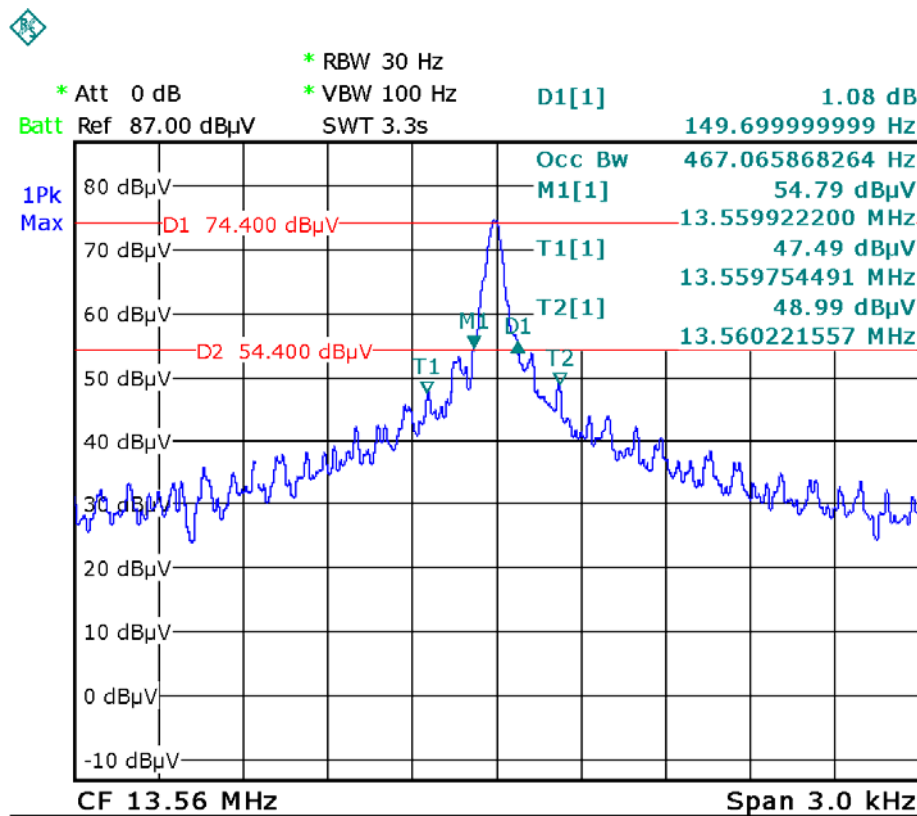
### 10.1 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
2. 20dB Bandwidth the resolution bandwidth of 30 Hz and the video bandwidth of 100 Hz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.

### 10.2 Test Result

Frequency(MHz)	Bandwidth Emission(Hz)
13.56	149.70

Test Plot



## **11 Antenna Requirement**

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has an Loop antenna, fulfil the requirement of this section.

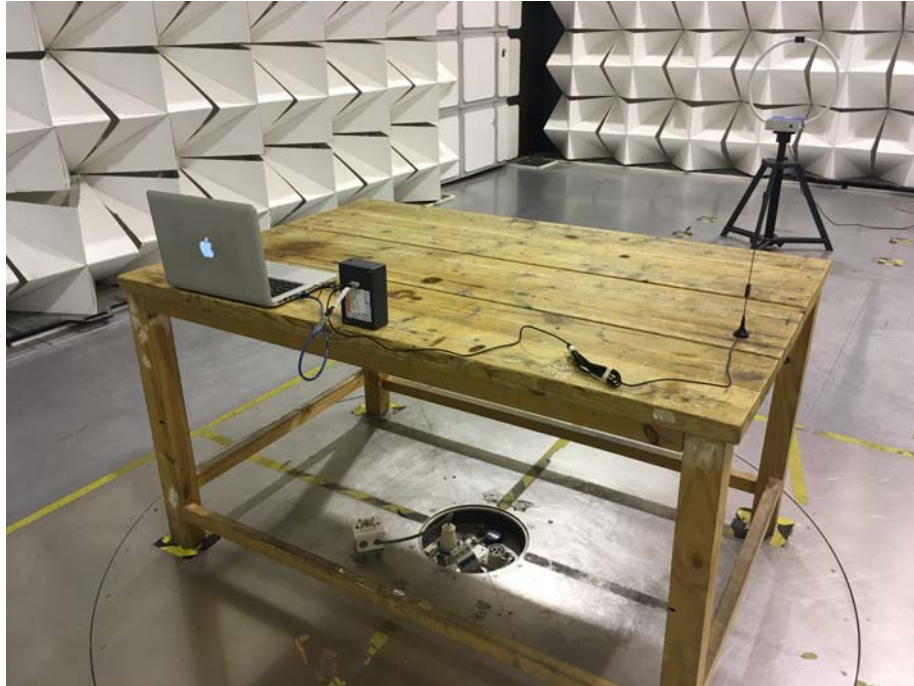
## 12 Photographs- Test Setup Photos

### 12.1 Photograph – Radiation Emission Test Setup

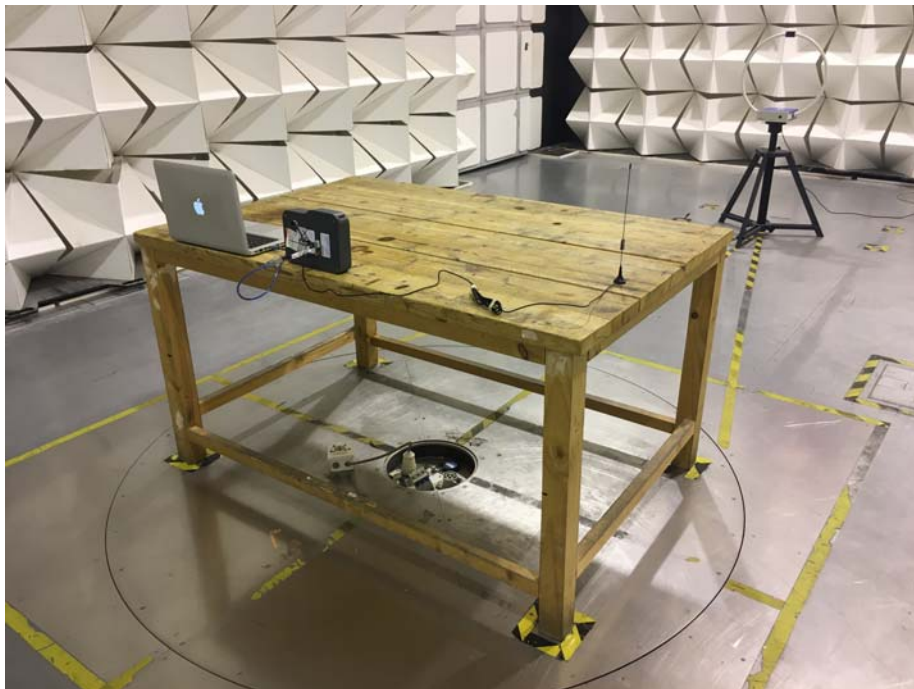
Test frequency from 9 KHz to 30MHz

Below 30MHz Test Site 2#

AV5



AV7

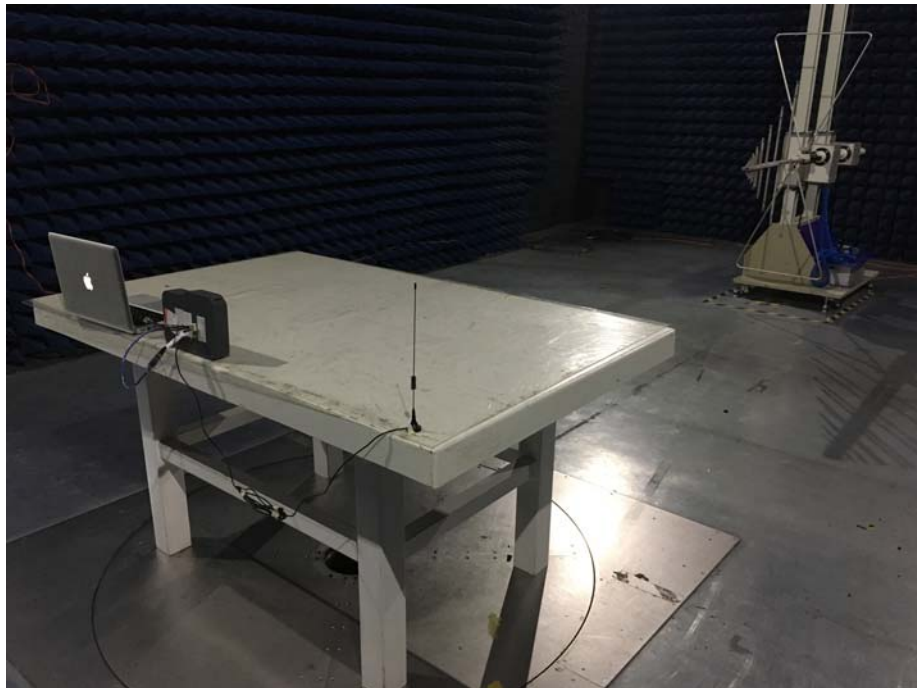


Test frequency from 30MHz to 1GHz

AV5



AV7





## 12.2 Photograph – Conducted Emission Test Setup

AV5:  
Test Site 1#



AV7:



### **13 Photographs of EUT.**

Note: Please refer to appendix: WTS17S0888240E\_Photo.

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