



BUREAU  
VERITAS

Test Report No.: FV130726N045



Test Lab  
Cert 2951.01

## TEST REPORT



Applicant:	Axesstel, Inc.
Address:	6815 Flanders Drive, Suite 210, San Diego, CA92121, USA

Manufacturer or Supplier	Axesstel (Shanghai) Ltd.
Address	Room 1101, Building 19, No.1515 Gumei Road, Shanghai, China
Product:	CDMA Fixed Wireless Terminal With Smart Security Alert
Brand Name:	Axesstel
Model:	AX240
Additional Model & Model Difference:	N/A
Date of tests:	Jul. 27, 2013 ~ Aug. 15, 2013

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

**FCC Part 15, Subpart B, Class B**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Jeffery Lee Project Engineer / EMC Department	Approved by Sam Tung Manager/ EMC Department
	  Date: Aug. 15, 2013

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VERITAS**

Test Report No.: FV130726N045

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FV130726N045	Original release	Aug. 15, 2013



# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B			
Standard Section	Test Item	Result	Remark
15.107	Conducted Emission Test	PASS	Meet the requirement of limit. Minimum passing margin is -10.31dB at 0.67311MHz.
15.109	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -6.12dB at 59.1MHz
	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -9.4dB at 6355.01MHz

## 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	+/-2.67dB
Radiated emissions	30MHz ~ 1GHz	+/-4.81dB
	1GHz~ 18GHz	+/-4.30dB



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	CDMA Fixed Wireless Terminal With Smart Security Alert	
<b>MODEL NO.</b>	AX240	
<b>FCC ID</b>	PH7AX240	
<b>NOMINAL VOLTAGE</b>	DC 3.7V from battery or DC 5V from adapter	
<b>BATTERY</b>	Brand Name: BAK Model Name: X200 Power Rating: DC 3.7V, 1600mAh, Li-ion	
<b>MODULATION TYPE</b>	<b>ZWAVE</b>	GFSK
	<b>CDMA</b>	QPSK, OQPSK, HPSK
<b>OPERATING FREQUENCY</b>	<b>ZWAVE</b>	908.42 MHz
	<b>CDMA</b>	824.7MHz ~ 848.31MHz for CDMA2000 BC0; 1851.25MHz ~ 1908.75MHz for CDMA2000 BC1
<b>HW Version</b>	3.0.2	
<b>SW Version</b>	0.3.4	
<b>I/O PORTS</b>	Refer to user's manual	
<b>CABLE SUPPLIED</b>	N/A	
<b>ACCESSORY DEVICES</b>	Adapter	

#### NOTE:

- The EUT was powered by the following adapters:

ADAPTER 1	
BRAND:	STH
MODEL:	P6050100 US
INPUT:	AC 100-240V,50/60Hz,0.2A
OUTPUT:	DC 5V, 1000mA
DC Line:	Unshielded,Undetachable,1.8M

ADAPTER 2	
BRAND:	STH
MODEL:	TA31-0502000
INPUT:	AC 100-240V,50/60Hz,0.4A
OUTPUT:	DC 5V, 2000mA
DC Line:	Unshielded,Undetachable,1.8M

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



## 2.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following mode. And the final worst mode is marked in boldface and recorded in this report.

### For conducted emission test:

<b>Mode 1</b>	<b>CDMA 2000 BC0+RJ11 Link</b>	<b>Adapter 1</b>
		Adapter 2
Mode 2	CDMA 2000 BC1+RJ11 Link	Adapter 1
		Adapter 2

### For radiated emission test:

Mode 1	CDMA 2000 BC0+RJ11 Link	Adapter 1
		Adapter 2
<b>Mode 2</b>	<b>CDMA 2000 BC1+RJ11 Link</b>	Adapter 1
		<b>Adapter 2</b>



## 2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Universal Radio Communication Tester	R&S	CMU200	123259	N/A
2	Telephone	CHINO-E	HCD6138(20)P	N/A	N/A
3	Telephone	MSQ	HCD2968	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	RJ11 cable: Unshielded, Detachable, 1m
3	RJ11 cable: Unshielded, Detachable, 1m

**NOTE:**

1. All power cords of the above support units are non-shielded (1.8m).



### 3 EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

**NOTE:** 1.The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

##### 3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU 26	100005	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 14,13	May 13,14
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA

2. The test was performed in Shielded Room 553.





### 3.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

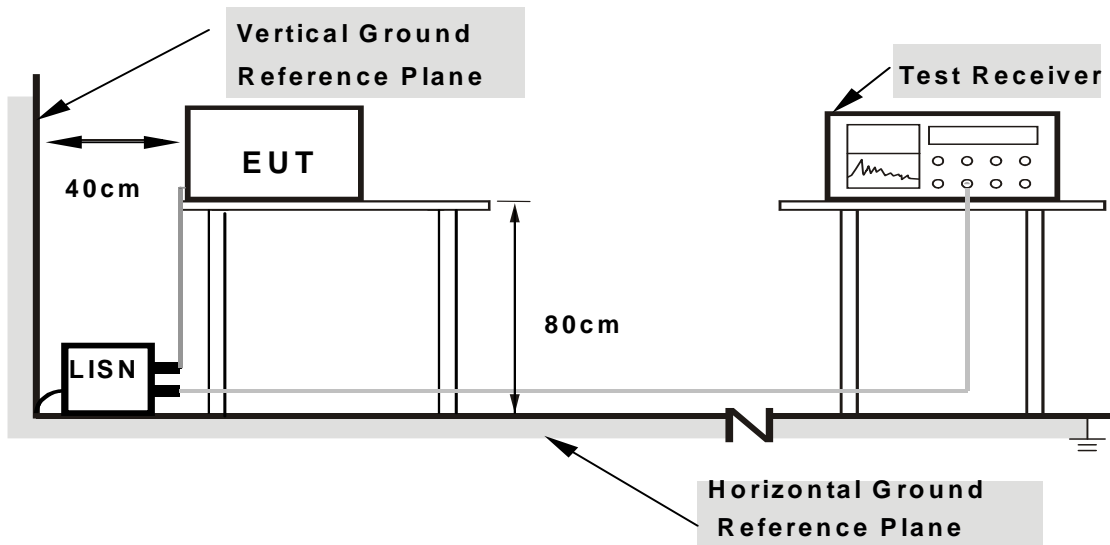
**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

### 3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



### 3.1.5 TEST SETUP



- Note:**
- 1.Support units were connected to second LISN.
  - 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.

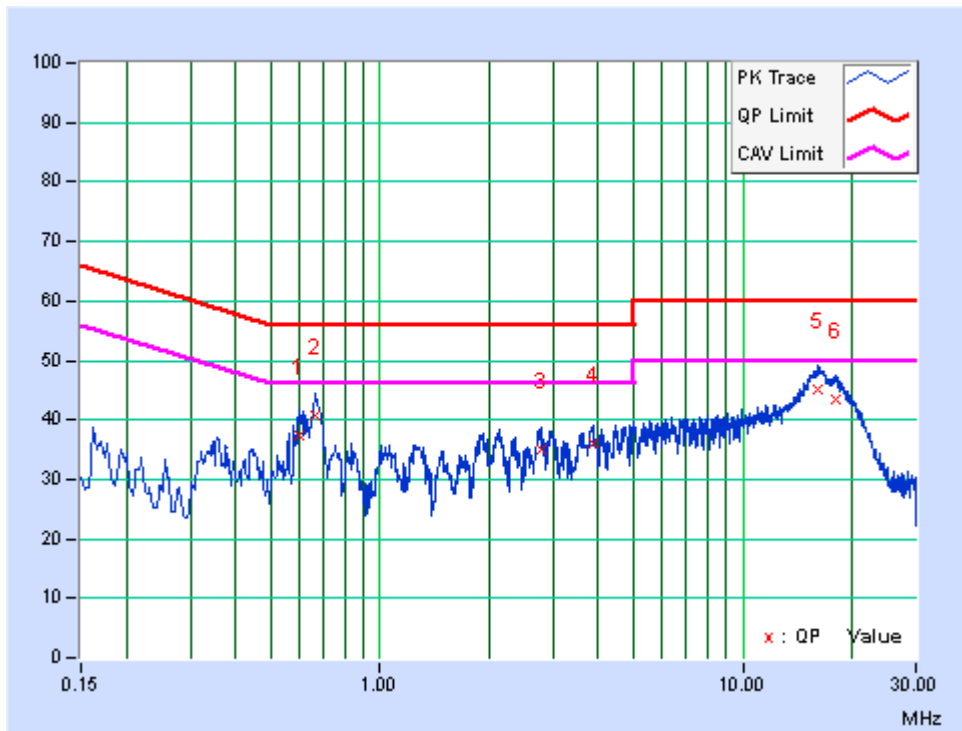


**3.1.7 TEST RESULTS**

<b>TEST MODE</b>	Mode 1	<b>6DB BANDWIDTH</b>	9 kHz
<b>TEST VOLTAGE</b>	DC 5V, 1A From Adapter Input AC 120V/60Hz	<b>PHASE</b>	Line (L)
<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 56% RH	<b>TESTED BY</b>	Bin

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.59628	10.26	26.95	17.37	37.21	27.63	56	46	-18.79	-18.37
2	0.66255	10.19	30.43	22.75	40.62	32.94	56	46	-15.38	-13.06
3	2.77752	9.91	25.07	17.37	34.98	27.28	56	46	-21.02	-18.72
4	3.8645	9.93	26.15	16.45	36.08	26.38	56	46	-19.92	-19.62
5	16.1419	10.37	34.88	24.88	45.25	35.25	60	50	-14.75	-14.75
6	17.97178	10.44	32.94	24.2	43.38	34.64	60	50	-16.62	-15.36

**REMARKS:** The emission levels of other frequencies were very low against the limit.

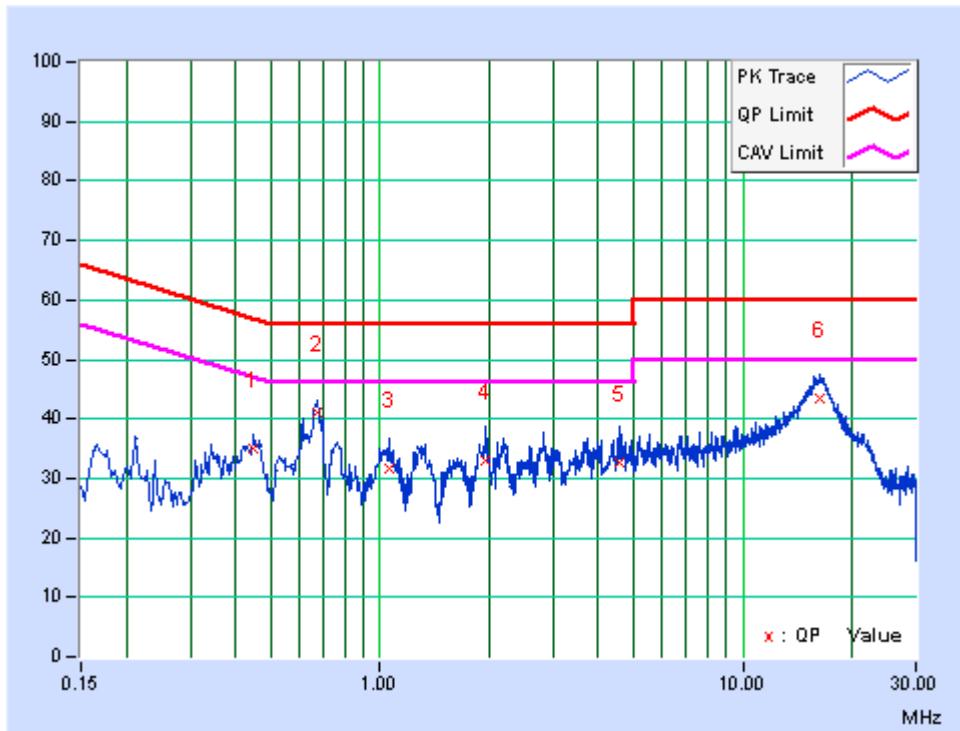




<b>TEST MODE</b>	Mode 1	<b>6DB BANDWIDTH</b>	9 kHz
<b>TEST VOLTAGE</b>	DC 5V, 1A From Adapter Input AC 120V/60Hz	<b>PHASE</b>	Neutral (N)
<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 56% RH	<b>TESTED BY</b>	Bin

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.44742	10.49	24.55	19.08	35.04	29.57	56.92	46.92	-21.88	-17.35
<b>2</b>	<b>0.67311</b>	<b>10.15</b>	<b>30.83</b>	<b>25.54</b>	<b>40.98</b>	<b>35.69</b>	<b>56</b>	<b>46</b>	<b>-15.02</b>	<b>-10.31</b>
3	1.06494	9.86	21.84	16.34	31.7	26.2	56	46	-24.3	-19.8
4	1.94469	9.69	23.35	17.26	33.04	26.95	56	46	-22.96	-19.05
5	4.60349	9.76	22.97	15.44	32.73	25.2	56	46	-23.27	-20.8
6	16.32567	10.4	33.01	20.61	43.41	31.01	60	50	-16.59	-18.99

**REMARKS:** The emission levels of other frequencies were very low against the limit.





### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

FREQUENCY (MHz)	Class A (at 10m)		Class B (at 3m)	
	uV/m	dBuV/m	uV/m	dBuV/m
30 – 88	90	39.1	100	40.0
88 – 216	150	43.5	150	43.5
216 – 960	210	46.4	200	46.0
960 – 1000	300	49.5	500	54.0

Based on FCC part 15 clause 15.109(g). As an alternative to the radiated emission limits to comply with the standards contained in CISPR 22.

#### FOR FREQUENCY BELOW 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30 – 230	40	30
230 – 1000	47	37

#### FREQUENCY RANGE OF RADIATED MEASUREMENT

(For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower



### LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

- Note: (1) The lower limit shall apply at the transition frequencies.  
 (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 3.2.2 TEST INSTRUMENTS

#### For frequency below 1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	Apr. 23,14
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 14,13	May 13,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Bilog Antenna	Teseq	CBL 6111D	25757	Nov. 22,12	Nov. 21,13
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8.8m	NSEMC006	Mar. 24,13	Mar. 23,14
Pre-Amplifier (20MHz-3GHz)	EMCI	EMC 330	980095	Nov. 02,12	Nov.01,13
Test Software	ADT	ADT_Radiated_V7.6.15	N/A	N/A	N/A
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	Apr. 23,14

#### For frequency above 1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	EMCO	3117	00062558	Oct.18,12	Oct.17,13
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	Apr. 23,14
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 14,13	May 13,14
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 14,13	May 13,14
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,12	Nov. 03,13
Test Software	ADT	ADT_Radiated_V7.6.15	N/A	N/A	N/A

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.  
 2. The test was performed in Chamber 10m.  
 3. The FCC Site Registration No. is 502831.



### 3.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters (below 1GHz) and 3 meters (above 1GHz) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

**NOTE:**

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
6. Margin value = Emission level – Limit value.

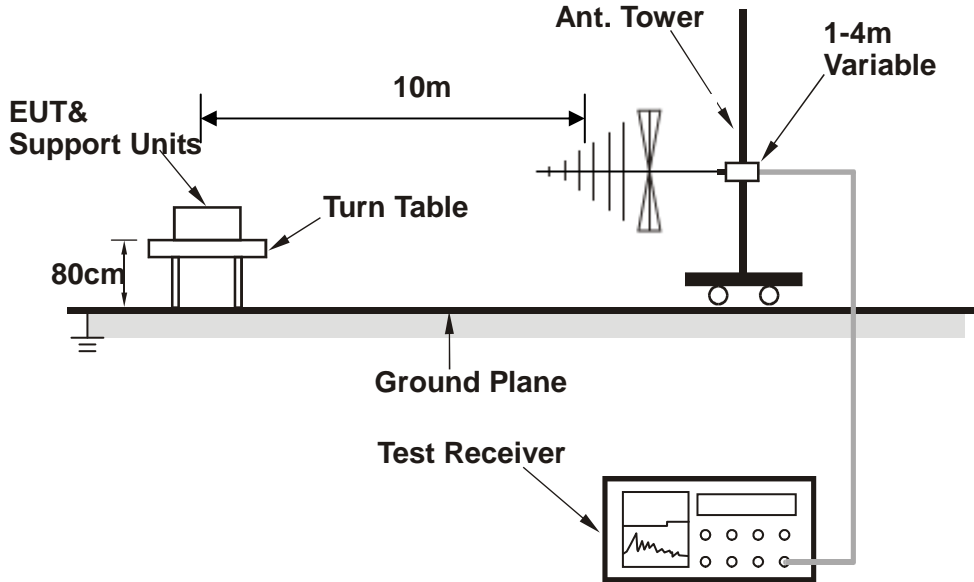
### 3.2.4 DEVIATION FROM TEST STANDARD

No deviation

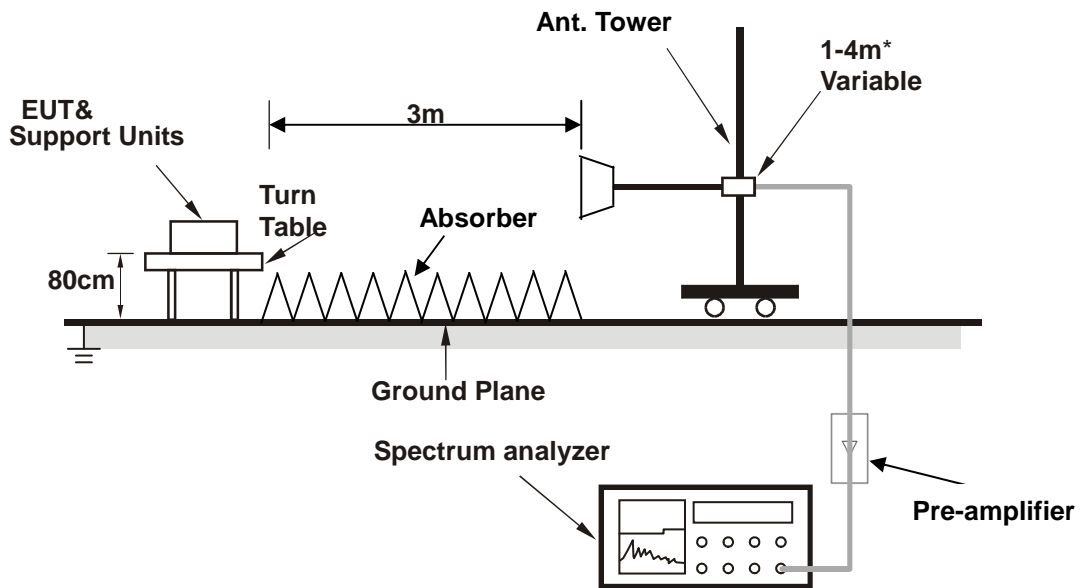


### 3.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



\* : depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

### 3.2.6 EUT OPERATING CONDITIONS

Same as item 3.1.6.



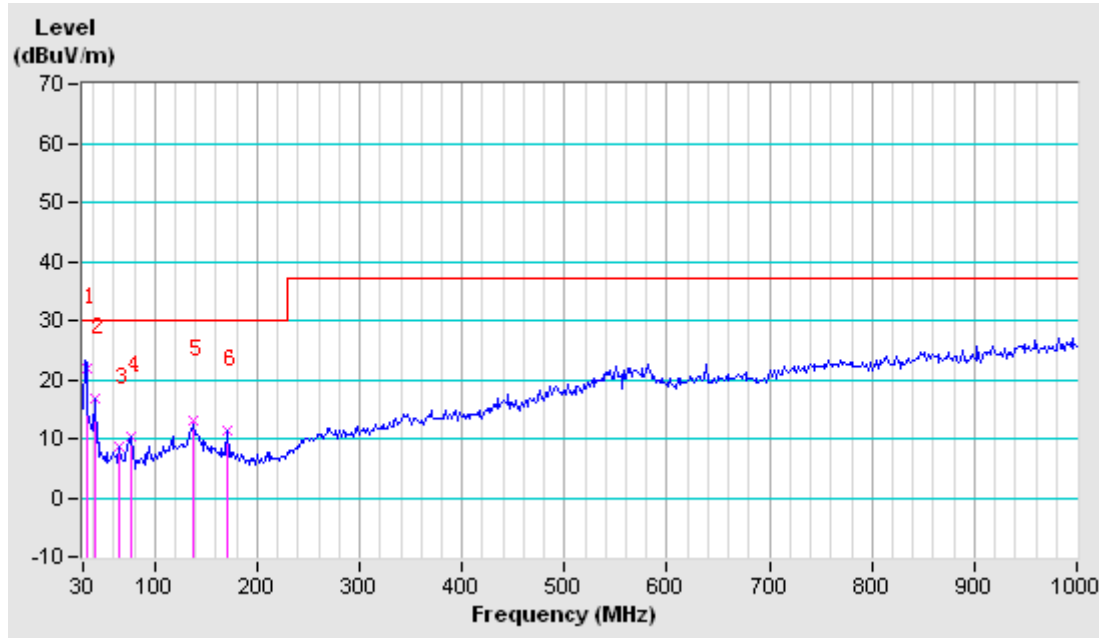


### 3.2.7 TEST RESULTS (BELOW 1GHz)

<b>TEST MODE</b>	Mode 2	<b>FREQUENCY RANGE</b>	30-1000MHz
<b>TEST VOLTAGE</b>	DC 5V,2A From Adapter Input AC 120V/60Hz	<b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 57% RH	<b>TESTED BY:</b> Endy.Xie	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	33.23	18.33	3.57	21.9	30	-8.1	400	225
2	41.32	13.73	3.17	16.9	30	-13.1	400	200
3	65.57	7.42	1.13	8.55	30	-21.45	400	0
4	76.88	8.54	1.92	10.46	30	-19.54	400	154
5	136.7	12.97	0.1	13.07	30	-16.93	400	174
6	170.65	11.25	0.15	11.4	30	-18.6	400	114

**REMARKS:** The emission levels of other frequencies were very low against the limit.

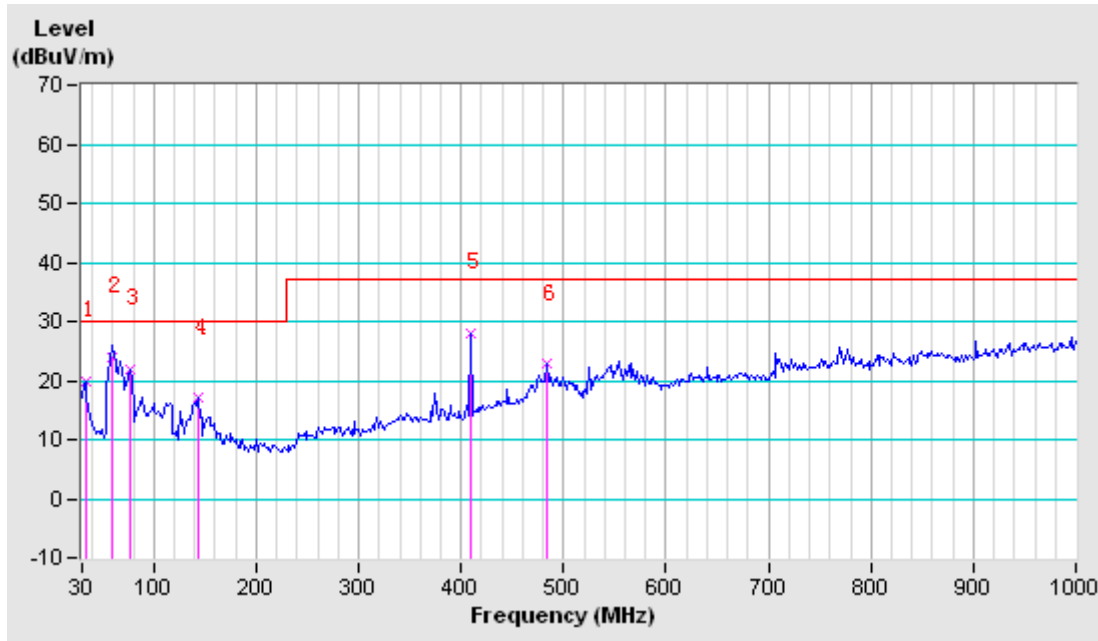




<b>TEST MODE</b>	Mode 2	<b>FREQUENCY RANGE</b>	30-1000MHz
<b>TEST VOLTAGE</b>	DC 5V,2A From Adapter Input AC 120V/60Hz	<b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 57% RH	<b>TESTED BY:</b> Endy.Xie	

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 10 M</b>								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	33.23	18.32	1.56	19.88	30	-10.12	100	317
2	<b>59.1</b>	<b>8.63</b>	<b>15.25</b>	<b>23.88</b>	<b>30</b>	<b>-6.12</b>	<b>100</b>	<b>0</b>
3	76.88	8.54	13.24	21.78	30	-8.22	100	290
4	143.17	12.88	4.15	17.03	30	-12.97	100	270
5	409.92	18.68	9.29	27.97	37	-9.03	100	189
6	484.28	20.49	2.27	22.76	37	-14.24	100	237

**REMARKS:** The emission levels of other frequencies were very low against the limit.





### 3.2.8 TEST RESULTS (ABOVE 1GHz)

<b>TEST MODE</b>	Mode 2	<b>FREQUENCY RANGE</b>	1000-13000MHz
<b>TEST VOLTAGE</b>	DC 5V,2A From Adapter Input AC 120V/60Hz	<b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b>	AV/Peak, 1MHz
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 57% RH	<b>TESTED BY:</b> Endy.Xie	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	3130.00 PK	4.67	47.53	52.2	74	-21.80	100	237
2	3130.00 AV	4.67	37.33	42	54	-12.00	100	237
3	4925.00 PK	8.34	46.36	54.7	74	-19.30	100	291
4	4925.00 AV	8.34	35.95	44.3	54	-9.70	100	291
5	6355.01 PK	11.19	44.41	55.6	74	-18.40	100	310
6	6355.01 AV	11.19	33.41	44.6	54	-9.40	100	310

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Correcti on Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	3220.00 PK	4.83	47.27	52.1	74	-21.90	100	351
2	3220.00 AV	4.83	36.57	41.4	54	-12.60	100	351
3	4690.00 PK	8.01	45.49	53.5	74	-20.50	100	252
4	4690.00 AV	8.01	35.09	43.1	54	-10.90	100	252
5	7090.00 PK	12.19	42.21	54.4	74	-19.60	100	146
6	7090.00 AV	12.19	31.51	43.7	54	-10.30	100	146

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

See test setup photo document.



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## 5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---