



BUREAU VERITAS

Test Report No.: FV130516N019



TEST REPORT

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

Manufacturer or Supplier	Eastern Communications Company Limited
Address	No.66, Building A ,Eastcom City, Eastcom Road, Binjing Hi-tech Industry Development Zone, Hang Zhou 310053 China
Product	CDMA 1x EV-DO rev.B Router
Brand Name	AXESSTEL
Model	MV640VR
Additional Model & Model Difference	MV640, MV640R, MV640V; See item 2.1
Date of tests	May 21 ~ May 25, 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 (Certification)

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: May 29, 2013

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**BUREAU
VERITAS**

Test Report No.: FV130516N019

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FV130516N019	Original release	May 29, 2013

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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD			
Standard Section	Test Item	Result	Remark
FCC Part 15 Subpart B , ClassB	Conducted Emission Test	PASS	Meets Class B Limit Minimum passing margin is -9.13 dB at 0.17744 MHz
	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -2.48 dB at 48 MHz
	Radiated Emission Test (above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -7.5 dB at 6412.00 MHz

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	9kHz~30MHz	+/-2.94 dB
Radiated emissions	30MHz ~ 1000MHz	+/-3.64 dB
	1GHz ~ 18GHz	+/-2.20 dB



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

EUT	CDMA 1x EV-DO rev.B Router
MODEL NO.	MV640VR
ADDITIONAL MODEL	MV640, MV640R, MV640V
FCC ID	PH7MV640
POWER SUPPLY	DC 9V (adapter) DC 7.4V (Li-ion battery)
BATTERY	Brand: DLG Model: ICR146502S100F028A1 Power Rating: DC 7.4V 1000mAh(Li-ion)
I/O PORTS	Refer to user's manual
ANTENNA TYPE	PIFA Antenna; 3.5dBi gain
DATA CABLE	RJ45 cable: Unshielded, Undetachable, 1.5m USB Cable: Unshielded, Undetachable, 1.0m

NOTE:

1. The EUT was powered by the following adapters:

Adapter	
Brand:	Tenwei
Model:	TA36-0902000
Input:	AC 100-240V, 50/60Hz, 0.45A
Output:	DC 9V, 2000m A
DC Line:	Unshielded, Undetachable, 1.8M

2. Additional models MV640, MV640R, MV640V are identical with the test model MV640VR, except the model number for marketing purpose.
3. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
4. For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.



2.2 DESCRIPTION OF TEST MODES

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

◆ For Conducted Emission Test

Test Mode	Test Condition
1	CDMA 850 Idle + Adapter + Battery + WIFI + LAN Port Data Transmitting (10Mbps More than 10%)
2	CDMA 1900 Idle + Adapter + Battery + WIFI + LAN Port Data Transmitting (100Mbps More than 10%)

◆ For Radiated Emission Test

Test Mode	Test Condition
1	CDMA 850 Idle + Adapter + Battery + WIFI + LAN Port Data Transmitting (10Mbps More than 10%)
2	CDMA 1900 Idle + Adapter + Battery + WIFI + LAN Port Data Transmitting (100Mbps More than 10%)
3	CDMA 850 Idle + Battery + WIFI + LAN Port Data Transmitting (100Mbps More than 10%)



2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an dependent 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.

FOR EMISSION TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Universal Radio Communication Tester	R&S	CMU 200	101095	N/A
2	Telephone	MSQ	HCD2968	N/A	N/A
3	Notebook PC	DELL	5P2PM2X	12400120329	N/A
4	Notebook PC	LENOVO	E430	MP-ODN27	N/A
5	Mouse	DELL	MOC5UO	H0K00K92	N/A
6	Printer	HP	LaserJet 1300	CNSJF75989	N/A
7	Printer	Lenovo	LJ2200L	LP02857415	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	RJ11 Cable: Unshielded, Detachable 5.0m;
3	RJ45 Cable: Unshielded, Detachable 10.0m;
4	USB Line: Unshielded, Dtachable 1.0m;
5	USB Line: Shielded, Non-detachable 1.5m;
6	USB Line: Shielded, Detachable 1.5m;
7	USB Line: Shielded, Detachable 1.5m;

NOTE:

1. All power cords of the above support units are non-shielded (1.8m).
2. Items 1, 3, 4 acted as communication partners to transfer data.



3 EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD:

FCC Part 15, Subpart B (Section: 15.109)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

- NOTES:**
- (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 0.50 MHz.
 - (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
Impedance Stabilization Network	TESEQ	ISN T800	27957	Oct. 10,12	Oct. 09,13
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 and NIM/CHINA.
 - 2. The test was performed in Shielded Room 553.



3.1.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009 (section 7).

- 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 150 kHz to 30 MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

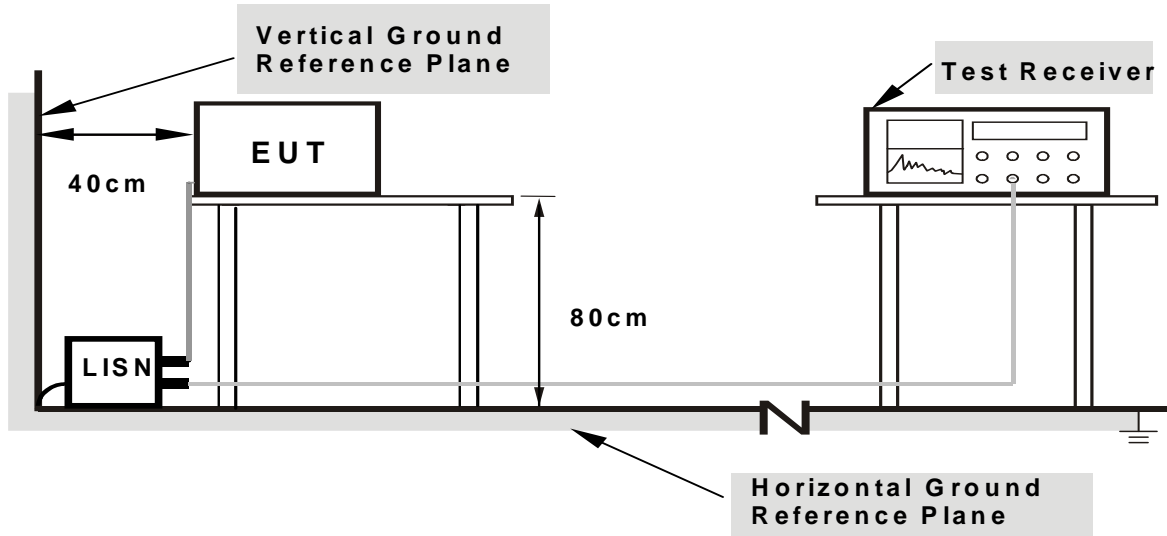
NOTE:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

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 80cm from EUT and at least 80cm from other units and other metal planes support units.

3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power of all equipment.
- b. EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

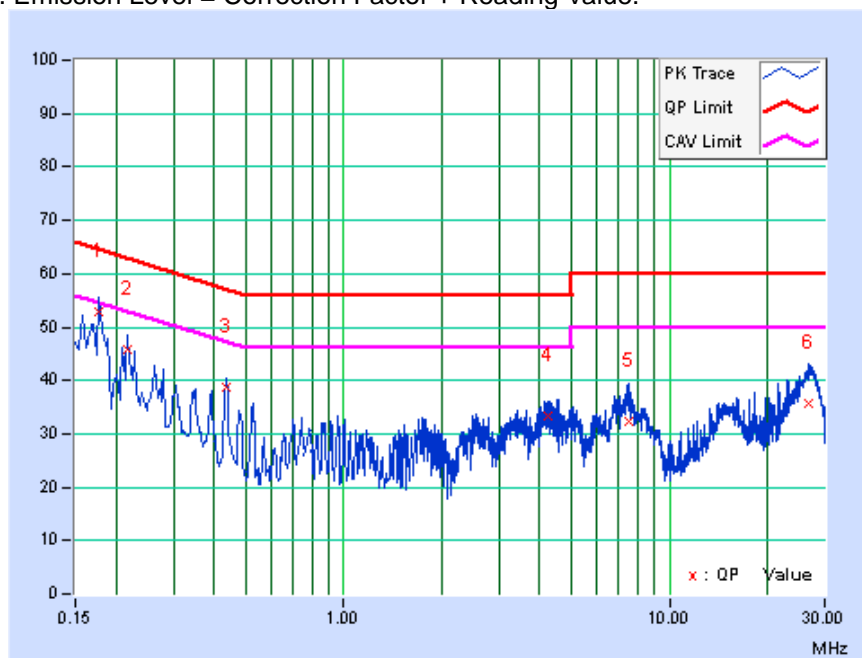


3.1.7 TEST RESULTS

TEST MODE	Mode 2	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC9V From Adapter Input AC120V/60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH	TESTED BY	BIN

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17744	10.49	42.41	34.99	52.9	45.48	64.6	54.6	-11.71	-9.13
2	0.21647	10.4	35.24	22.7	45.64	33.1	62.95	52.95	-17.31	-19.85
3	0.43543	10.24	28.43	26.37	38.67	36.61	57.15	47.15	-18.48	-10.54
4	4.26332	9.86	23.31	13.81	33.17	23.67	56	46	-22.83	-22.33
5	7.5008	9.91	22.51	15.69	32.42	25.6	60	50	-27.58	-24.4
6	26.61288	10.79	25.03	19.89	35.82	30.68	60	50	-24.18	-19.32

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

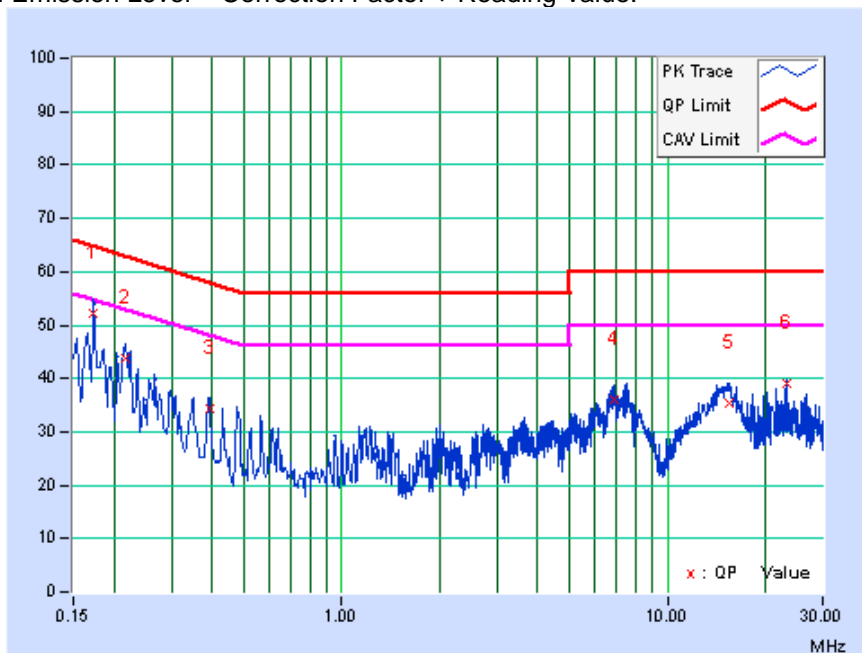




TEST MODE	Mode 2	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC9V From Adapter Input AC120V/60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH	TESTED BY	Bin

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17346	10.49	41.75	26.05	52.24	36.54	64.79	54.79	-12.55	-18.25
2	0.21647	10.31	33.5	21.41	43.81	31.72	62.95	52.95	-19.15	-21.24
3	0.39219	10.35	23.86	19.2	34.21	29.55	58.02	48.02	-23.81	-18.47
4	6.85565	9.86	26.12	19.08	35.98	28.94	60	50	-24.02	-21.06
5	15.43419	10.24	24.95	19.22	35.19	29.46	60	50	-24.81	-20.54
6	23.12907	10.65	28.33	25.55	38.98	36.2	60	50	-21.02	-13.8

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.





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 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	Apr. 24,13	Apr. 23,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Bilog Antenna	Teseq	CBL 6111D	27089	Jul. 16,12	Jul. 15,13
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. 2,12	Nov.1,13
Test Software	ADT	ADT_Radiate d_V7.6.15	N/A	N/A	N/A

FOR FREQUENCY ABOVE 1GHz

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	Apr. 24,13	Apr. 23,14
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_Radiate d_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 and NIM/CHINA.
 2. The test was performed in 10m Chamber.
 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 system 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.

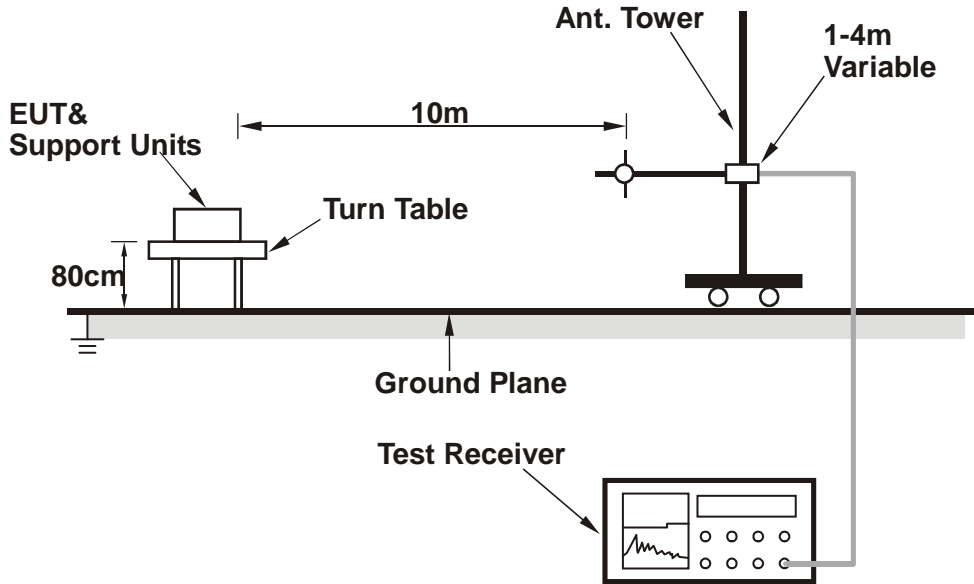
3.2.4 DEVIATION FROM TEST STANDARD

No deviation

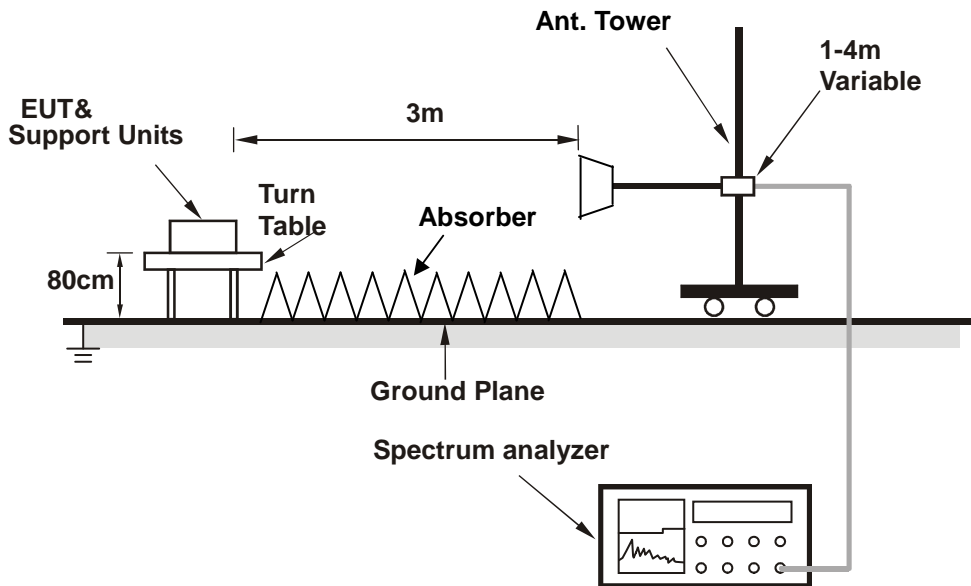


3.2.5 TEST SETUP

<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.

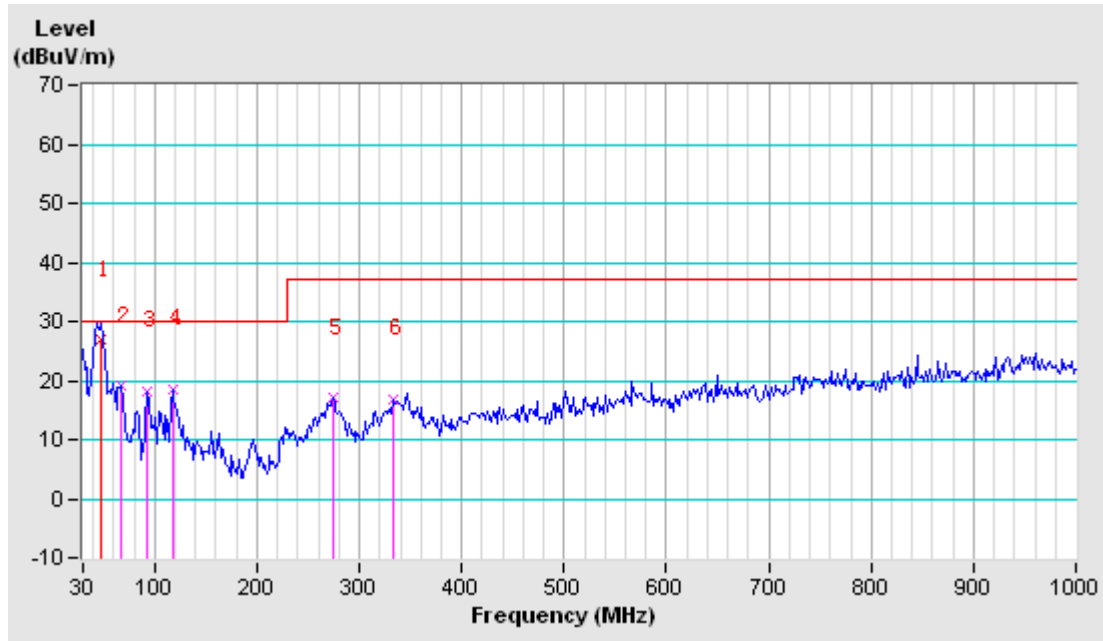


3.2.7 TEST RESULTS (BELOW 1GHZ)

TEST MODE	Mode 2	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC9V From Adapter Input AC120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	22deg. C, 60% RH	TESTED BY: 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	47.93	10.63	16.2	26.83	30	-3.17	100	187
2	67.18	7.15	11.88	19.03	30	-10.97	121	80
3	93.05	10.65	7.54	18.19	30	-11.81	105	61
4	117.3	12.94	5.54	18.48	30	-11.52	100	14
5	274.12	15.03	1.98	17.01	37	-19.99	144	106
6	332.32	16.51	0.4	16.91	37	-20.09	160	123

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

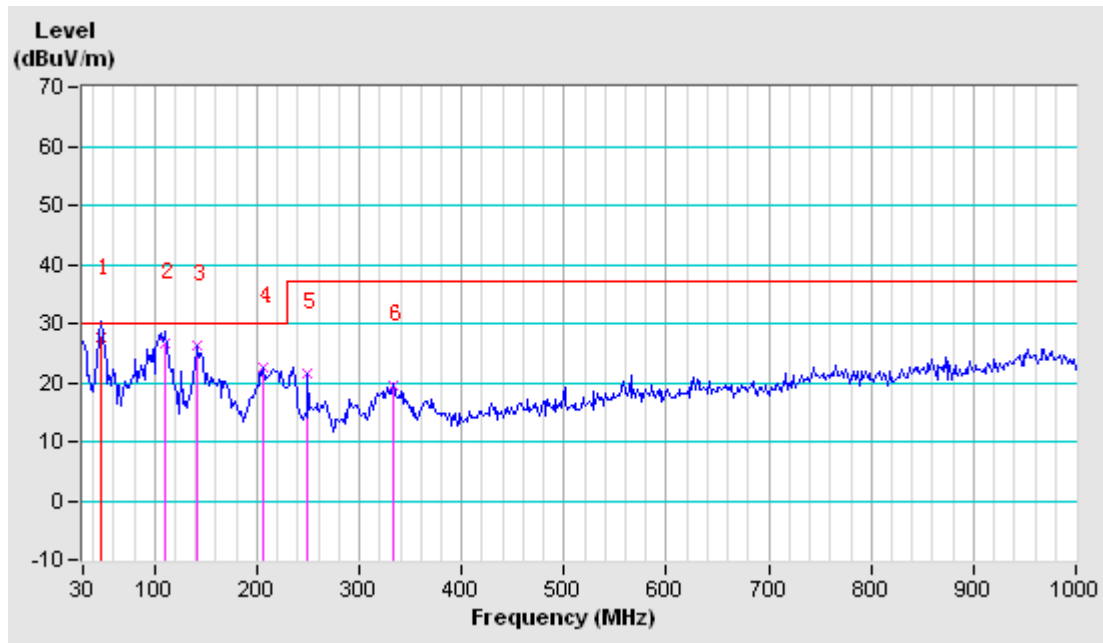




TEST MODE	Mode 2	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC9V From Adapter Input AC120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	22deg. C, 60% RH	TESTED BY: Endy Xie	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	48	10.62	16.9	27.52	30	-2.48	100	176
2	109.22	12.48	14.25	26.73	30	-3.27	100	101
3	141.55	12.96	13.24	26.2	30	-3.8	136	89
4	206.22	11.21	11.49	22.7	30	-7.3	157	113
5	249.87	14.69	6.89	21.58	37	-15.42	183	142
6	332.32	16.51	3.13	19.64	37	-17.36	202	164

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





3.2.8 TEST RESULTS (ABOVE 1GHZ)

TEST MODE	Mode 2	FREQUENCY RANGE	Above 1GHz
TEST VOLTAGE	DC9V From Adapter Input AC120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	22deg. C, 60% RH	TESTED BY: 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	3550 PK	48.8	9.42 PK	39.38	74.00	-25.2 PK	100	247
2	3550 AV	39.9	0.52 AV	39.38	54.00	-14.1 AV	100	247
3	4938 PK	51.1	9.33 PK	41.77	74.00	-22.9 PK	100	114
4	4938 AV	42.7	0.93 AV	41.77	54.00	-11.3 AV	100	114
5	5958 PK	52.6	8.87 PK	43.73	74.00	-21.4 PK	100	318
6	5958 AV	44.4	0.67 AV	43.73	54.00	-9.6 AV	100	318

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 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	3125 PK	48.3 PK	9.54 PK	38.78	74.00	-25.7 PK	105	146
2	3125 AV	39.9 AV	1.09 AV	38.78	54.00	-14. AV	105	146
3	4173.3 PK	50.5 PK	9.76 PK	40.74	74.00	-23.5 PK	110	231
4	4173.3 AV	41.6 AV	0.86 AV	40.74	54.00	-12.4 AV	110	231
5	6412 PK	54.8 PK	10.19 PK	44.61	74.00	-19.2 PK	100	189
6	6412 AV	46.5 AV	1.89 AV	44.61	54.00	-7.5 AV	100	189

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.



**BUREAU
VERITAS**

Test Report No.: FV130516N019

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

See test setup photo document.



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---