



BUREAU
VERITAS

Test Report No.: FC131024N040



Test Lab
Cert 2951.01

TEST REPORT

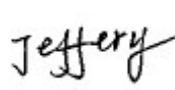
Applicant	Brightstar Corporation
Address	9725 NW 117th Ave.,Miami,Florida,United States

Manufacturer or Supplier	Asiatelco Technologies Co.
Address	#289 Bisheng Road, Building-8, 3F, zhangjiang Hi-Tech Park, Pudong, Shanghai,China
Product	Fixed Wireless Terminal Router 3G
Brand Name	AVVIO
Model	HT853W
Additional Model & Model Difference	N/A
Date of tests	Oct. 25, 2013 ~ Nov. 07, 2013

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

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: Nov. 07, 2013

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**BUREAU
VERITAS**

Test Report No.: FC131024N040

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FC131024N040	Original release	Nov. 07, 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 -8.29dB at 0.4781MHz.
15.109	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -4.67dB at 250MHz
	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -9.32dB at 2858MHz

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	+/-4.3dB



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Fixed Wireless Terminal Router 3G	
MODEL NO.	HT853W	
FCC ID	WVBAHT853W	
NOMINAL VOLTAGE	DC 12V from adapter	
MODULATION TYPE	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
	GSM	GMSK
	WCDMA	BPSK
	WLAN	2412-2462MHz for 11b/g/n(HT20) 2422-2452MHz for 11n(HT40)
	GSM	824.2MHz~848.8MHz(FOR GSM 850) 880.2MHz~914.8MHz (FOR GSM 900) 1710.2MHz ~ 1784.8MHz (FOR DCS 1800) 1850.2MHz~1909.8MHz(FOR PCS 1900)
	WCDMA	826.4MHz~846.6MHz(FOR WCDMA 850) 1852.4MHz ~ 1907.6MHz(FOR WCDMA 1900)
HW Version	V2.0	
SW Version	W200_AVVIO_T2	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	RJ45 cable: Unshielded, Detachable, 1.6m RJ11 cable: Unshielded, Detachable, 1.5m	
ACCESSORY DEVICES	Refer to note as below	

NOTE:

- The EUT's accessories list refers to EUT Photo. pdf. The EUT was powered by the following adapter:

Adapter	
BRAND:	powertek
MODEL:	SWPP-12001000-US
INPUT:	AC 100-240V, 50/60Hz, 1000mA
OUTPUT:	DC 12V, 1000mA
DC LINE:	Unshielded, Undetachable, 1.5M, with one core

- 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:

Mode 1	GSM850 Idle + WLAN Idle + RJ45 link x4+RJ11 link x1+USB link Flash+Adapter
Mode 2	WCDMA B5 Idle+ WLAN Idle + RJ45 link x4+RJ11 link x1+USB link Flash+Adapter
Mode 3	WCDMA B2 Idle+ WLAN Idle + RJ45 link x4+RJ11 link x1+USB link Flash+Adapter
Mode 4	PCS1900 Idle+ WLAN Idle + RJ45 link x4+RJ11 link x1+USB link Flash+Adapter

For radiated emission test:

Mode 1	GSM850 Idle + WLAN Idle + RJ45 link x4+RJ11 link x1+USB link Flash+Adapter
Mode 2	WCDMA B5 Idle+ WLAN Idle + RJ45 link x4+RJ11 link x1+USB link Flash+Adapter
Mode 3	WCDMA B2 Idle+ WLAN Idle + RJ45 link x4+RJ11 link x1+USB link Flash+Adapter
Mode 4	PCS1900 Idle+ WLAN Idle + RJ45 link x4+RJ11 link x1+USB link Flash+Adapter



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	Laptop PC	DELL	5P2PM2X	12400120329	N/A
3	Laptop PC	Lenovo	E430	MP-0DN27	N/A
4	Laptop PC	DELL	E6420	N/A	N/A
5	Mouse	DELL	M056UOA	01688082	N/A
6	Printer	HP	Hplaserjet1300	N/A	N/A
7	Telephone	MSQ	HCD2968	N/A	N/A
8	Wireless AP	ABOCOM	WR224GR	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line :Unshielded, Detachable,1.8m
2	AC Line :Unshielded, Detachable,1.5m;DC Line: Unshielded, Undetachable,1.8m;
3	AC Line :Unshielded, Detachable,1.5m;DC Line: Unshielded, Detachable, 1.5m
4	AC Line :Unshielded, Detachable,1.0m;DC Line: Unshielded, Undetachable, 2.0m
5	USB Line: Unshielded, undetachable,1.8m.
6	AC Line :Unshielded, Detachable 1.8 m;DC Line: Unshielded, Detachable 1.8m
7	Telephone line: Unshielded, undetachable,1.0m.
8	AC Line :Unshielded, Detachable,1.5m



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 Dongguan 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.

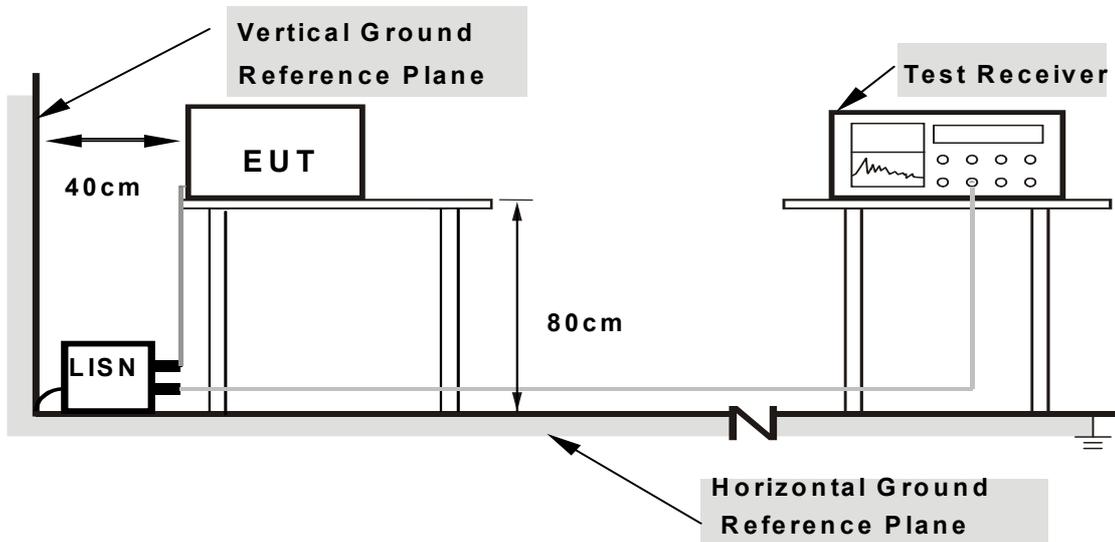
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

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.

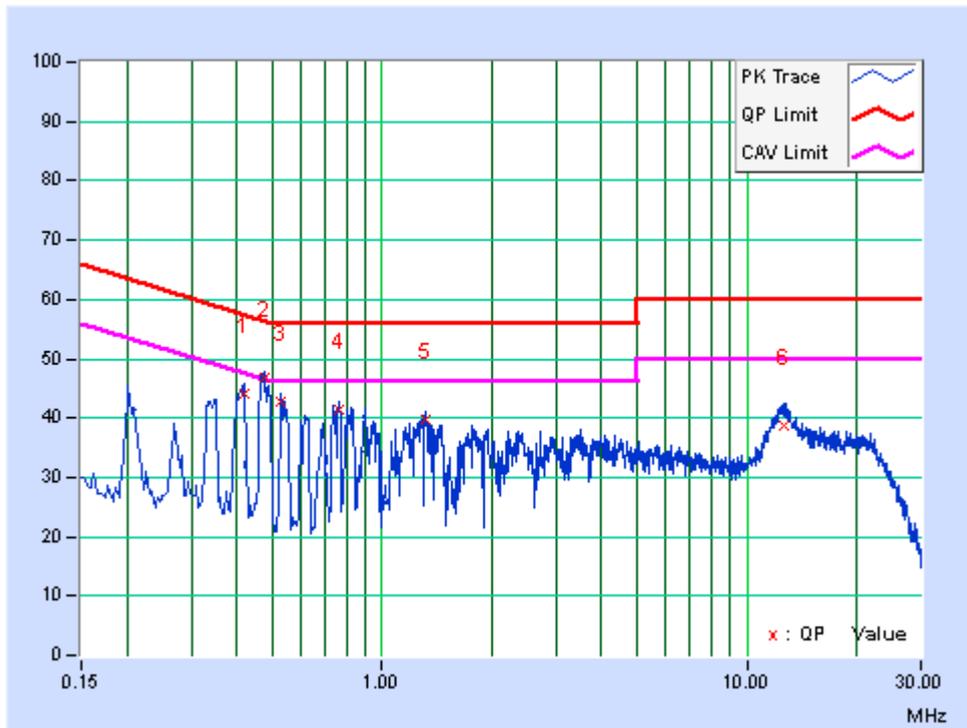


3.1.7 TEST RESULTS

TEST MODE	Mode 1	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 12V From Adapter Input AC 120V/60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 55% RH	TESTED BY	Eric

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	0.41799	10.33	33.7	23.22	44.03	33.55	57.49	47.49	-13.45	-13.93
2	0.4781	10.35	36.53	27.73	46.88	38.08	56.37	46.37	-9.49	-8.29
3	0.53	10.33	32.54	20.72	42.87	31.05	56	46	-13.13	-14.95
4	0.76618	10.12	31.24	18.4	41.36	28.52	56	46	-14.64	-17.48
5	1.31835	9.97	29.65	15.81	39.62	25.78	56	46	-16.38	-20.22
6	12.69	10.21	28.54	16.45	38.75	26.66	60	50	-21.25	-23.34

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

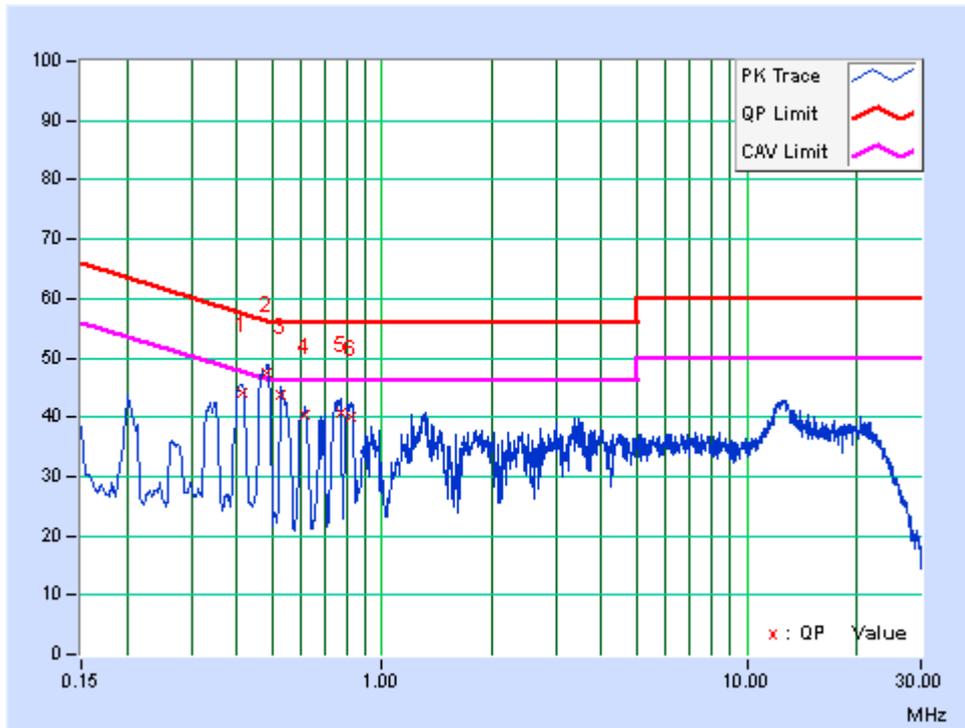




TEST MODE	Mode 1	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 12V From Adapter Input AC 120V/60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 55% RH	TESTED BY	Eric

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	0.414	10.45	33.76	25.48	44.21	35.93	57.57	47.57	-13.36	-11.64
2	0.48444	10.55	36.86	27.4	47.41	37.95	56.26	46.26	-8.86	-8.32
3	0.53	10.5	33.37	21.82	43.87	32.32	56	46	-12.13	-13.68
4	0.61731	10.29	30.18	19.46	40.47	29.75	56	46	-15.53	-16.25
5	0.77	10.04	30.73	14.65	40.77	24.69	56	46	-15.23	-21.31
6	0.81834	10	30.17	17.82	40.17	27.82	56	46	-15.83	-18.18

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	April 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	27089	Jul. 27, 13	Jul. 26, 14
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8.8m	NSEMC006	Mar. 24,13	Mar. 23,14
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 06,13	Mar. 05,14
Test Software	ADT	ADT_Radiated_V7.6.15	N/A	N/A	N/A

For frequency above 1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	ETS-Lindgren	3117	00062558	Oct.18,13	Oct.17,14
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 04,11	Jan. 03,14
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	April 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. 04,13	Nov. 03,14
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.

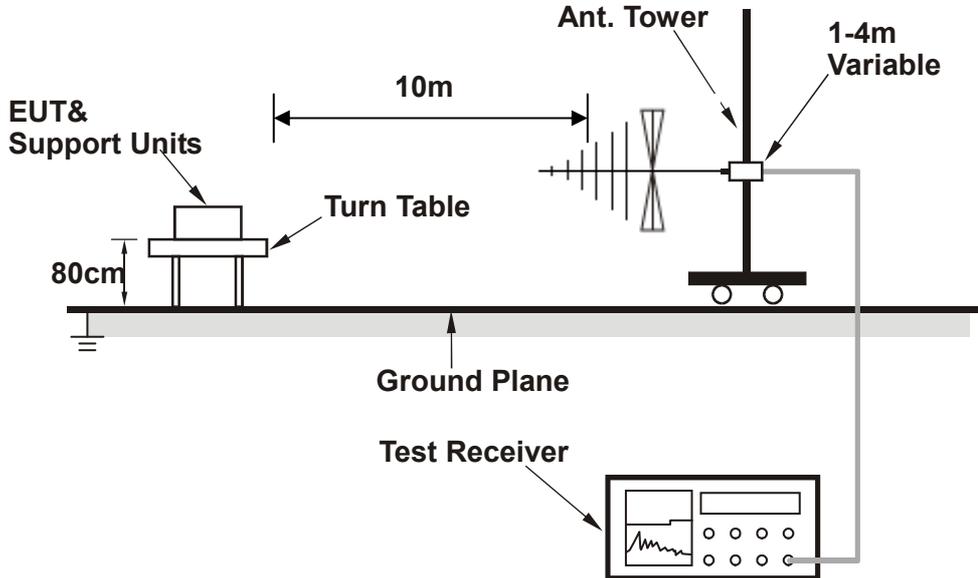
3.2.4 DEVIATION FROM TEST STANDARD

No deviation

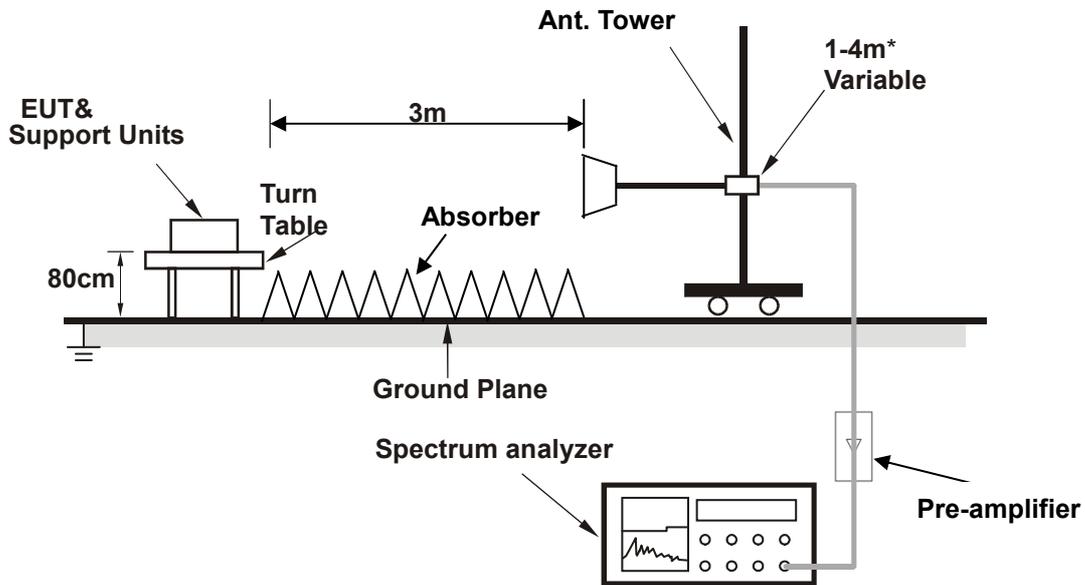


3.2.5 TEST SETUP

<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.

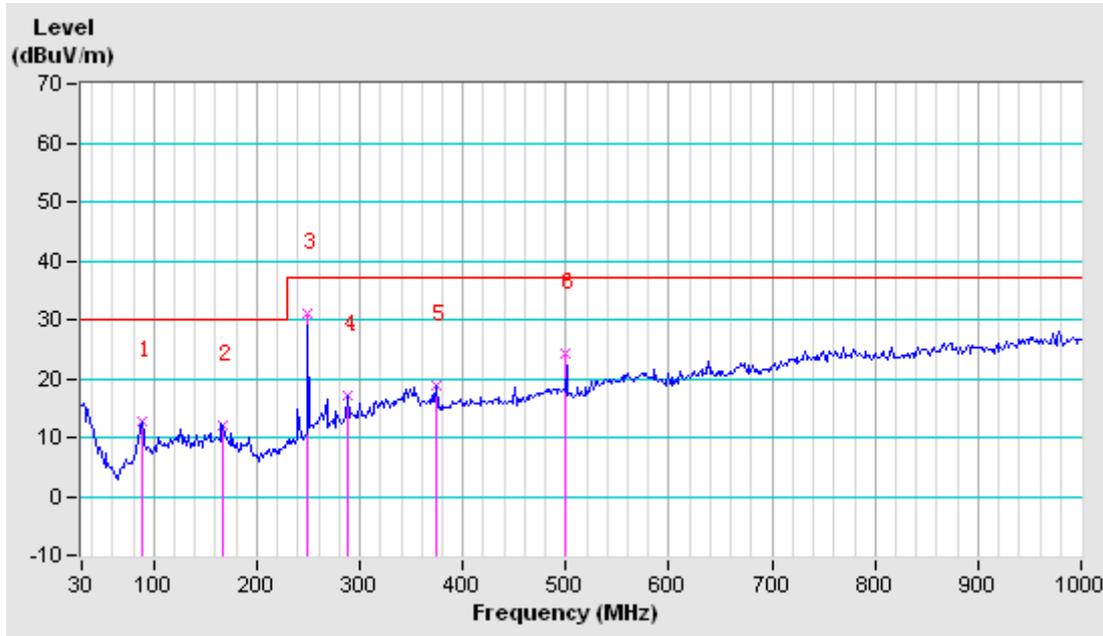


3.2.7 TEST RESULTS (BELOW 1GHz)

TEST MODE	Mode 1	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC 12V From Adapter Input AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	27deg. C, 46% RH	TESTED BY: Endy	

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	88.2	10.09	2.56	12.65	30	-17.35	383	286
2	167.42	11.75	0.29	12.04	30	-17.96	368	271
3	250	14.33	16.8	31.13	37	-5.87	353	256
4	288.67	15.31	1.79	17.1	37	-19.9	226	90
5	374.35	18.03	0.89	18.92	37	-18.08	267	130
6	500	21.49	2.88	24.37	37	-12.63	293	159

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

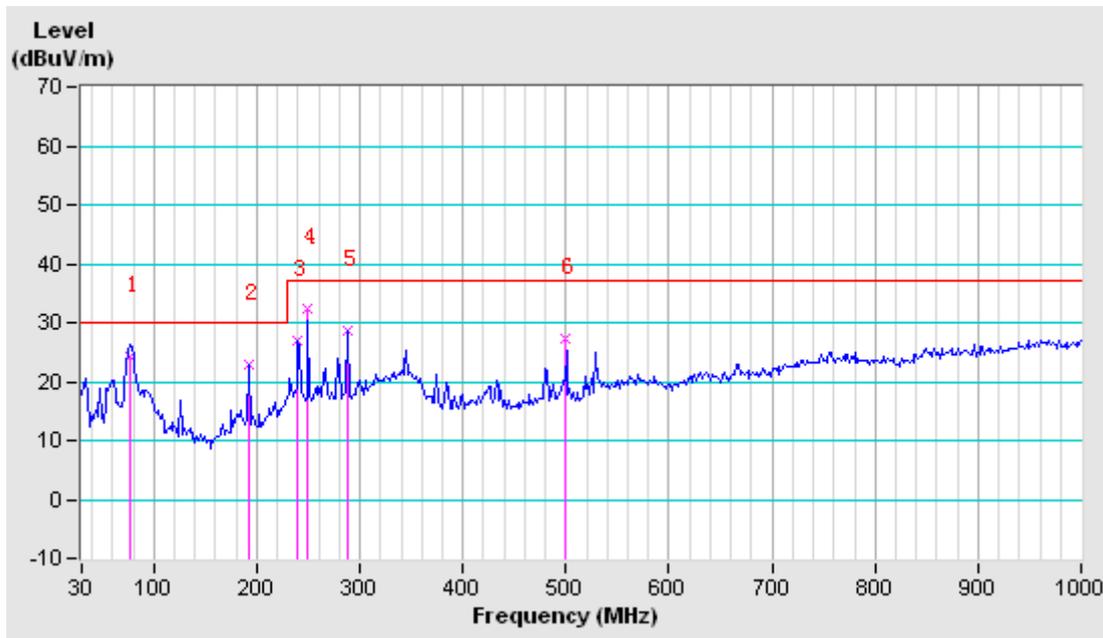




TEST MODE	Mode 1	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC 12V From Adapter Input AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	27deg. C, 46% RH	TESTED BY: Endy	

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	76.88	7.49	16.8	24.29	30	-5.71	100	220
2	193.28	10.05	12.98	23.03	30	-6.97	100	250
3	240.17	12.81	14.26	27.07	37	-9.93	126	166
4	250	14.33	18	32.33	37	-4.67	149	143
5	288.67	15.31	13.38	28.69	37	-8.31	164	129
6	500	21.49	5.8	27.29	37	-9.71	192	100

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





3.2.8 TEST RESULTS (ABOVE 1GHz)

TEST MODE	Mode 1	FREQUENCY RANGE	1000-13000MHz
TEST VOLTAGE	DC 12V From Adapter Input AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	AV/Peak, 1MHz
ENVIRONMENTAL CONDITIONS	26deg. C, 54% RH	TESTED BY: Endy	

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	2042 PK	3.32	46.46	49.78	74	-24.22	100	248
2	2042 AV	3.32	35.64	38.96	54	-15.04	100	248
3	2791 PK	5.12	46.24	51.36	74	-22.64	100	355
4	2791 AV	5.12	35.55	40.67	54	-13.33	100	355
5	3988 PK	8.39	44.52	52.91	74	-21.09	100	89
6	3988 AV	8.39	33.24	41.63	54	-12.37	100	89

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	2017 PK	3.26	47.25	50.51	74	-23.49	100	358
2	2017 AV	3.26	36.88	40.14	54	-13.86	100	358
3	2858 PK	5.28	46.52	51.80	74	-22.20	100	157
4	2858 AV	5.28	35.4	40.68	54	-13.32	100	157
5	3925 PK	8.22	43.84	52.06	74	-21.94	100	246
6	3925 AV	8.22	31.93	40.15	54	-13.85	100	246

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.

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