



# **TEST REPORT**

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

Manufacturer or Supplier	Lenovo
Address	East 5/F, Lenovo research&Development Centre, GaoXinNan Yi Road, Nan Shan District, Shenzhen
Product	GSM MOBILE
Brand Name	Avvio
Model	Avvio 360
Additional Model & Model Difference	Avvio 360S
Date of tests	May 27 ~ Jun. 14, 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
Jeffery	Date: Jun. 14, 2013

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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FV130527N048	Original release	Jun. 14, 2013

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## 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 PASS		Meet the requirement of limit.  Minimum passing margin is9.54dB at 0.15631MHz.		
45.400	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -4.15dB at 167.42MHz		
15.109	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -7.05dB at 4367.00MHz		

# 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	+/-2.94 dB
De diete de eniceiene	30MHz ~ 1GHz	+/-3.64 dB
Radiated emissions	1GHz~ 18GHz	+/-2.20 dB

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# **2 GENERAL INFORMATION**

# 2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	GSM MOBIL	GSM MOBILE		
MODEL NO.	Avvio 360			
ADDITIONAL MODEL	Avvio 360S			
NOMINAL VOLTAGE	5.0Vdc (ada 3.7Vdc (Li-id	pter or host equipment) on battery)		
BATTERY	Brand Name: Avvio Model Name: BL-4C Power Rating: DC 3.7V 500mAh, Li-ion			
MODULATION TYPE	Bluetooth	GFSK, π/4-DQPSK, 8DPSK		
MODULATION TITLE	GSM	GMSK, 8PSK		
OPERATING	Bluetooth	2402MHz~2480MHz		
FREQUENCY	GSM	824.2MHz~848.8MHz(FOR GSM 850) 1850.2MHz~1909.8MHz(FOR PCS 1900)		
HW Version	SF204B V1.0			
SW Version	AVVIO360_SE_V0_1_0_20130528			
I/O PORTS	Refer to user's manual			
DATA CABLE	USB Cable: Shielded, Detachable, 0.9m; Earphone Cable: Unshielded, Detachable,1m			
ACCESSORY DEVICES	Adapter			

## NOTE:

1 The EUT was powered by the following adapter:

Adapter	
Model:	LDB-0500500U
Input:	AC 100-240V, 50/60Hz, 150mA
Output:	DC 5V, 500mA
DC line:	N/A

- 2 For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3 For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 4 Avvio 360 is single SIM slot and Avvio 360S is Dual SIM slot, but they have same HW except SIM slot.

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# 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 +battery+USB cable+Adapter + BT Idle+ WLAN Id +earphone+ MPEG4	
Mode 2	PCS1900 Idle+battery+ BT Idle+ WLAN Idle +USB cable+USB link	
Wode 2	+earphone+Camera	

#### For radiated emission test:

Mode 1	GSM850 Idle +battery+USB cable+Adapter + BT Idle+ WLAN Idle
ivioue i	+earphone+ MPEG4
Mode 2	PCS1900 Idle+battery+ BT Idle+ WLAN Idle +USB cable+USB link
MOGE Z	+earphone+Camera

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# 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	BT earphone	FAP00	H6080	N/A	N/A
3	Laptop PC	DELL	E6420	N/A	N/A
4	Mouse	Lenovo	M028UOL	N/A	N/A
5	Printer	HP	Hplaserjet1300	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	N/A
3	DC Line: Unshielded, Detachable, 1.5m
4	USB Line: Unshielded, undetachable,1.8m.
5	DC Line: Unshielded, Detachable 1.8m

#### NOTE:

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

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# **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 and NIM/CHINA

2. The test was performed in Dongguan Shielded Room 553.

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#### 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.

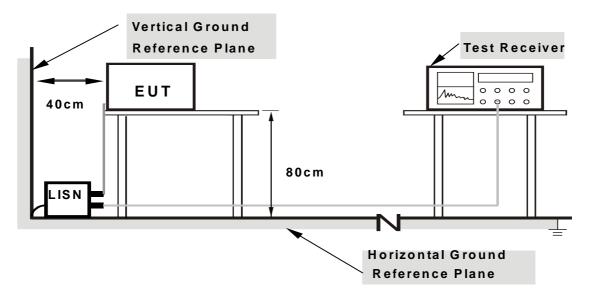
#### 3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

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## 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.

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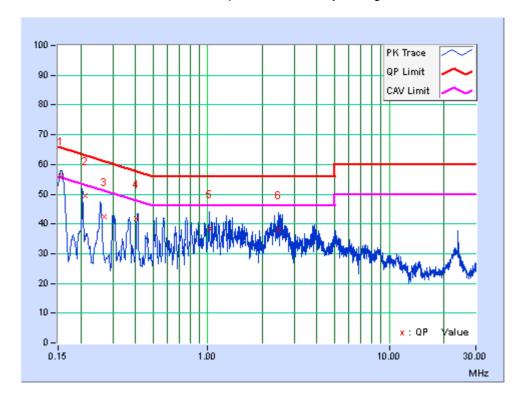


## 3.1.7 TEST RESULTS

TEST MODE	Mode 1	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V From Adapter Input AC 120V/60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH	TESTED BY	Bin

	Freq.	Corr.	Reading Value Emiss			Limit		Margin		
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15631	10.53	45.59	32.73	56.12	43.26	65.66	55.66	-9.54	-12.4
2	0.21259	10.41	39.06	26.24	49.47	36.65	63.1	53.1	-13.63	-16.45
3	0.26859	10.33	32.23	22.64	42.56	32.97	61.16	51.16	-18.6	-18.19
4	0.40459	10.23	31.67	24.03	41.9	34.26	57.76	47.76	-15.86	-13.5
5	1.01799	9.9	28.61	17.85	38.51	27.75	56	46	-17.49	-18.25
6	2.46088	9.89	28.11	16.19	38	26.08	56	46	-18	-19.92

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



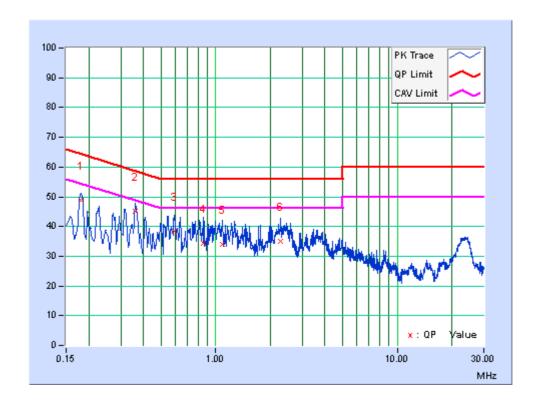
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TEST MODE	Mode 1	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V From Adapter Input AC 120V/60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH	TESTED BY	Bin

	Freq.	Corr.	Readin	g Value	Emission Level		l limit		Margin	
No		Factor	[dB	[dB (uV)] [dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18122	10.45	38.52	25.95	48.97	36.4	64.43	54.43	-15.46	-18.03
2	0.36114	10.39	34.65	22.39	45.04	32.78	58.7	48.7	-13.66	-15.92
3	0.58792	10.22	28.33	15.8	38.55	26.02	56	46	-17.45	-19.98
4	0.85775	9.77	24.51	10.45	34.28	20.22	56	46	-21.72	-25.78
5	2.26922	9.5	25.51	12.75	35.01	22.25	56	46	-20.99	-23.75
6	1.09231	9.65	24.47	10.48	34.12	20.13	56	46	-21.88	-25.87

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



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## 3.2 RADIATED EMISSION MEASUREMENT

# 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

FREQUENCY	Class A	(at 10m)	Class B (at 3m)		
(MHz)	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	Class A (at 10m)	Class B (at 10m)		
(MHz)	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

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

FREQUENCY (MHz)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
FREQUENCY (WINZ)	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

requeries below 10							
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. 16,12	Jul. 15,13		
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		

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
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		980102	Nov. 04,12	Nov. 03,13
Test Software	ADT	ADT_Radiated_V 7.6.15	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 Chamber 10m.

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#### 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

Bureau Veritas Shenzhen Co., Ltd.

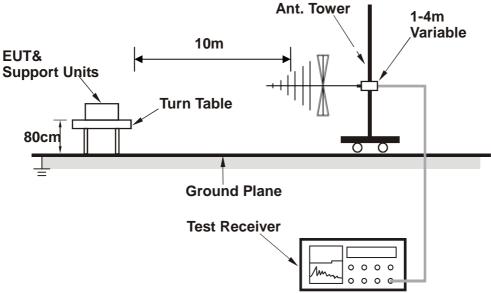
**Dongguan Branch** 

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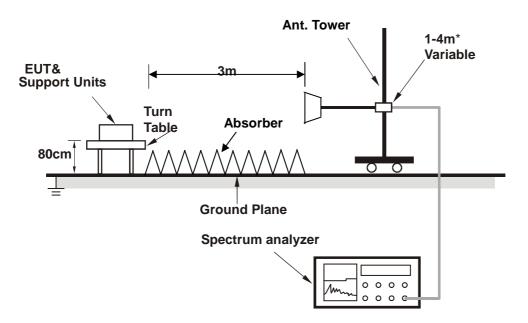


# 3.2.5 TEST SETUP

<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.

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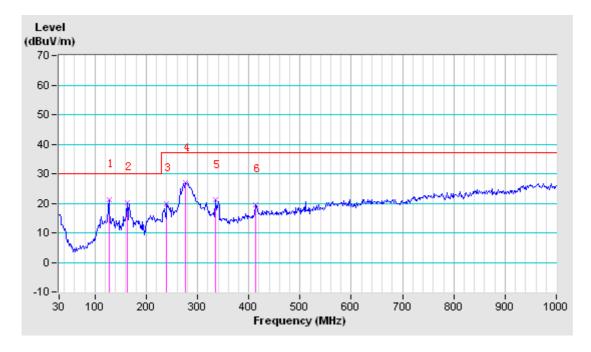


# 3.2.7 TEST RESULTS (BELOW 1GHz)

TEST MODE	Mode 2	FREQUENCY RANGE	30-1000MHz	
TEST VOLTAGE	DC 5V From PC Input AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz	
ENVIRONMENTAL CONDITIONS	24deg. C, 60% RH	TESTED BY: Yuqiang		

	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	127	13.4	7.84	21.24	30	-8.76	396	51		
2	162.57	11.89	8.3	20.19	30	-9.81	369	87		
3	240.17	13.45	6.3	19.75	37	-17.25	304	170		
4	275.73	15.09	11.77	26.86	37	-10.14	340	124		
5	335.55	16.56	4.46	21.02	37	-15.98	275	206		
6	413.15	19.35	0.29	19.64	37	-17.36	238	254		

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



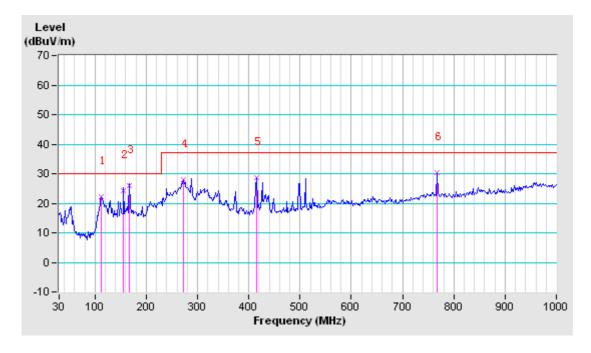
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TEST MODE	Mode 2	FREQUENCY RANGE	30-1000MHz		
TEST VOLTAGE	DC 5V From PC Input AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz		
ENVIRONMENTAL CONDITIONS	24deg. C, 60% RH	TESTED BY: Yuqiang			

	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	112.45	13.05	9.09	22.14	30	-7.86	100	218	
2	156.1	12.73	11.59	24.32	30	-5.68	100	196	
3	167.42	11.38	14.47	25.85	30	-4.15	151	332	
4	272.5	15.04	12.97	28.01	37	-8.99	144	299	
5	414.77	19.45	9.26	28.71	37	-8.29	122	271	
6	767.2	26.18	4.23	30.41	37	-6.59	103	245	

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



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# 3.2.8 TEST RESULTS (ABOVE 1GHz)

TEST MODE	Mode 2	FREQUENCY RANGE	1000-13000MHz	
TEST VOLTAGE	DC 5V From PC Input AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	AV/Peak, 1MHz	
ENVIRONMENTAL CONDITIONS	24deg. C, 60% RH	TESTED BY: Yuqiang		

	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	2996 PK	38.61	11.99	50.6	74	-23.4	100	176	
2	2996 AV	38.61	1.54	40.15	54	-13.85	100	176	
3	3854 PK	40.12	14.68	54.8	74	-19.2	100	216	
4	3854 AV	40.12	4.53	44.65	54	-9.35	100	216	
5	4367 PK	41.03	15.71	56.74	74	-17.26	100	325	
6	4367 AV	41.03	5.92	46.95	54	-7.05	100	325	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No	Freq.	Correction	Raw	Emission	Limit	Margin	Antenna	Table	
INO	(MHz)	Factor	Value	Level	(dBuV/m)		Height	Angle	
•	(IVIITZ)	(dB/m)	(dBuV)	(dBuV/m)	(ubuv/III)	(dB)	(cm)	(Degree)	
1	3047 PK	38.68	11.49	50.17	74	-23.83	105	243	
2	3047 AV	38.68	1.67	40.35	54	-13.65	105	243	
3	3674 PK	39.68	13.79	53.47	74	-20.53	110	166	
4	3674 AV	39.68	4	43.68	54	-10.32	110	166	
5	4129 PK	40.67	14.75	55.42	74	-18.58	116	337	
6	4129 AV	40.67	4.95	45.62	54	-8.38	116	337	

#### **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.



# 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---

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