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Report No.: GZEM110500139304

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FCC ID: WYNWINCHANCE-608

# TEST REPORT

Application No.:	GZEM1105001393RF	
Applicant:	Winchance Solar(Fujian) Technology Co., Ltd.	
FCC ID:	WYNWINCHANCE-608	
Product Name:	USB dongle	
<b>Product Description:</b>	USB bluetooth transmitter	
Model No:	MU-608	
Standards:	FCC PART 15 SUBPART B:2010	
Date of Receipt:	2011-05-11	
Date of Test:	2011-05-16 to 2011-06-09	
Date of Issue:	2011-07-21	
Test Result :	Pass*	

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Strong Yao Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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### 2 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
00		2011-07-21		Original	

Authorized for issue by:		
Tested By	Ryan Yang	2011-05-16 to 2011-06-09
	(Ryan Yang) /Project Engineer	Date
Prepared By	Ryan Yang	2011-07-18
	(Ryan Yang) /Clerk	Date
Checked By	Strong you	2011-07-21
	(Strong Yao) /Reviewer	Date



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# 3 Test Summary

Electromagnetic Interference (EMI)						
Test	Test Requirement	Test Method	Class / Severity	Result		
Conducted Emission (150 KHz to 30 MHz)	FCC PART 15 SUBPART B	ANSI C63.4	Class B	PASS		
Radiated Emission (30 MHz to 1 GHz)	FCC PART 15 SUBPART B	ANSI C63.4	Class B	PASS		
Radiated Emission above 1 GHz	FCC PART 15 SUBPART B	ANSI C63.4	Class B	PASS		

#### Remark:

**EUT:** In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter.
Rx: In this whole report Rx (or rx) means Receiver.
RF: In this whole report RF means Radio Frequency.

ANSI C63.4: the detail version is ANSI C63.4:2009 in the whole report.



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### 5 General Information

### 5.1 Client Information

Applicant: Winchance Solar(Fujian) Technology Co., Ltd.

Address of Applicant: Jiangnan New Hi-Tech Electronic Industrial Park, Quanzhou, Fujian,

China

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

Product Name: USB dongle

Product Description: USB bluetooth transmitter

Model No: MU-608

### 5.3 Details of E.U.T.

Power Supply: Power supply from the computer

USB Cable: N/A

### 5.4 Deviation from Standards

None.

### 5.5 Abnormalities from Standard Conditions

None.

### 5.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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### 5.7 Description of Support Units

The EUT has been tested with associated equipment as a typical PC system

Description	Manufacturer	Model No.	SN/Certificate NO		
Test PC 1					
Personal Computer	DELL	WORKSTATION 690	3R5592X		
Monitor	SAMSUNG	225MS	CR22HVMP900646W		
Mouse	DELL	MOC5UO	G1B02ZP5		
Keyboard	DELL	SK-8115	CN-ODJ331-71616-7B1-109J		
Test PC 2					
Personal Computer	DELL	OPTIPLEX 755	D6JF82X		
Monitor	DELL	SP2208WFPt(B)	CN-OPK573-71618-831-119U		
Mouse	DELL	M-WDEL1	OT0943		
Keyboard	DELL	SK-8115	CN-ODJ331-71616-7B1-109J		
Test PC 3					
Personal Computer	DELL	OPTIPLEX 330	7JZ382X		
Monitor	DELL	E228WFPc	CN-OPN380-64180-7CJ-1DXL		
Mouse	DELL	MOC5UO	G1B02ZP5		
Keyboard	CHERRY	RS 6000M	G 00005662 Q242 III		
Test PC 4					
Personal Computer	DELL	OPTIPLEX 980	GXVZV2X		
Monitor	DELL	P2210f	FGL-00000714011207500		
IVIOTIILOI		1 22 101	-09BO02490-A		
Mouse	DELL	M-WDEL1	OT0943		
Keyboard	DELL	SK-8135	N/A		
Test PC 5					
Personal Computer	Lenovo	M6600N	SS12594403		
Monitor	HP	D8904	L0204H094		
Mouse	DELL	MOC5UO	G1B02ZP5		
Keyboard	DELL	SK-8135	N/A		
Notebook	Notebook				
NoteBook	IBM	T40	99-FBAF9 03/09		
NoteBook	IBM	T60	L3-F3755		
NoteBook	Lenovo	R400	L3-ABB9E		
Printer					
Printer	DELL	4470-AD1 (926B)	CN-OGH204-48734-69Q-7K78		
Printer	HP	C5884A	SG78D1H18F		



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Description	Manufacturer	Model No.	SN/Certificate NO
Other Peripheral			
DV	SONY	DCR-HC28	375383
		2.5" USB2.0 MOBILE	
Portable Hard disk	MSI	HDD(250GB)	HKC08-J/L8022438329
Portable Hard disk	SAMSUNG	HM320JI(320GB)	S16LJD0Q543275
ROM Programmer	DASI Electronics	EMP-100A	N/A
Faxmodem	3Com U.S. Robotics	56K Faxmodem	715630-01
HP Colorado T1000e			
External Parallel			
Tape Backup System	Hewlett Packard	T1000e	US035980
GROUP PHONE SYSTEM	НВ	MC024/1)	241342207120130
	TP-Link	WS824(1) TL-SF1005D	7126101589
Fast Ethernet Switch			
Fast Ethernet Switch	TP-Link	TL-SF1008D	7126001251
MIC	VoiceAO	N/A	N/A
MIC	VoiceAO	N/A	N/A
Flash Disk	Kingston	DTI/2GB	CH 092908
Flash Disk	Kingston	DTI/1GB	CH 042007
SD Memory Card	SanDisk	128MB	AK0531802339D
MiniSD Memory Card		1024MB	BB063010TE
MMCmobile	Richlight	1GB	MM8GH01GRMCA-9A
Headphone	COBY	CV-230	N/A
Headphone	Philips	N/A	N/A
Ipod classic	Apple	MB147CH	JQ74121YMV
lpod nano	Apple	A1137	JQ63803RV9M
lpod nano	Apple	A1137	5Z50163JXUY
Ipod nano	Apple	A1137	YM601DN0SZB
lpod nano	Apple	MC688CH/A	DCYDWE22DDVX
lpod touch	Apple	A1288	1B9070RW203
Iphone	Apple	A1203	87810HJBWH8
Iphone 3GS	Apple	A1303	579C-A1303A
Projector	Sony	VPL-CX61	5004355
Wii console	Nintendo	RVL-001(JPN)	N/A
Xbox 360 Console	Microsoft	Xbox 360 Console	328731122665682000
Xbox Video Game			
System	Microsoft	F23-00064	111100623241005
HDMI 1 (EMCA002)	SGS	10m	N/A
HDMI 2 (EMCA003)	SGS	5m	N/A
USB (EMCA004)	SGS	5m	N/A
VGA (EMCA005)	SGS	1.8m	N/A



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### 5.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

### • SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

### • CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

### • FCC (Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

### Industry Canada (Registration No.: 4620B-1)

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

#### VCCI (Registration No.: R-2460 and C-2584)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460 and C-2584 respectively.

### CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01:2006-10 and Rules of procedure IECEE 02:2006-10, and the relevant IECEE CB-Scheme Operational documents.



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# 6 Equipment Used during Test

Conducted Emission					
No.	To definite the second	Manager	NA1 - 1 N1 -	Covial Na	Cal.Due date
INO.	Test Equipment	Manufacturer	Model No.	Serial No.	(YYYY-MM-DD)
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m <sup>3</sup>	N/A	N/A
EMC0118	Two-line v-netwok	R&S	ENV216	100359	2011-09-25
EMC0102	LISN	SCHAFFNER CHASE	MN2050D/1	1421	2011-11-23
EMC2046	Artificial Mains Network (LISN)	AFJ Instruments	LT32C	S.N.320311201 50	2012-05-18
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	2011-11-24
EMC0107	Coaxial Cable	SGS	2m	N/A	2012-07-18
EMC0106	Voltage Probe	SGS	N/A	N/A	N/A
EMC0120	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	20550	2012-01-17
EMC0121	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	20549	2012-01-17
EMC0122	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	20548	2012-01-17

RE in Cham	RE in Chamber				
No.	Took Favinment	Manufacturer	Model No.	Serial No.	Cal.Due date
NO.	Test Equipment	wanulacturer	woder No.	Serial No.	(YYYY-MM-DD)
EMC0525	Compact Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	2011-09-06
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100283	2012-01-17
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	10036	2012-06-01
EMC0514	Coaxial cable	SGS	N/A	N/A	2011-12-08
EMC2025	Trilog Broadband Antenna 30-3000MHz	SCHWARZBECK MESS- ELEKTRONIK	VULB 9163	9163-450	2011-10-28
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	2011-12-20
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	2011-12-20
EMC2026	Horn Antenna 1-18GHz	R&S	BBHA 9120D	9120D-841	2011-10-28
EMC0518	Horn Antenna	Rohde & Schwarz	HF906	100096	2011-09-11
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	2012-01-17
EMC0049	Amplifier	Agilent	8447D	2944A10862	2012-04-21
EMC0075	310N Amplifier	Sonama	310N	272683	2011-10-25
EMC0523	Active Loop Antenna	EMCO	6502	42963	2011-11-17
EMC2041	Broad-Band Horn Antenna(14)15- 26.5(40)GHz	SCHWARZBECK MESS-ELEKTRONI	BBHA 9170	9170-375	2012-06-01
EMC0530	10m Semi- Anechoic Chamber	ETS	N/A	N/A	2012-05-10



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General use	General used equipment				
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due date
NO.	rest Equipment	Manufacturer	Model No.	Seriai No.	(YYYY-MM-DD)
EMC0006	DMM	Fluke	73	70681569	2011-12-16
EMC0007	DMM	Fluke	73	70671122	2011-12-16

Notice: Calibration duration for above equipments is 1 year.



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### 7 Emission Test Results

### Frequency range of radiated emission measurements for unintentional radiators:

Except as otherwise indicated in FCC part 15 Section 15.33 paragraphs (b)(2) or (b)(3), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency range of measurement
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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### 7.1 Conducted Emissions Mains Terminals, 150 KHz to 30MHz

Test Requirement:FCC Part15 BTest Method:ANSI C63.4Test Voltage:120V AC, 60HzTest Date:2011-05-16

Frequency Range: 150KHz to 30MHz

Detector: Peak for pre-scan

Quasi-Peak and Average at frequency with maximum peak

(9 kHz resolution bandwidth)

Class / Limit: Class B

F	Class B Limits		
Frequency range MHz	dB (μV)		
IVII 12.	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

NOTE 1 :The limit decreases linearly with the logarithm of the frequency in the range

0.15 MHz to 0.50 MHz.

NOTE 2: The lower limit is applicable at the transition frequency.

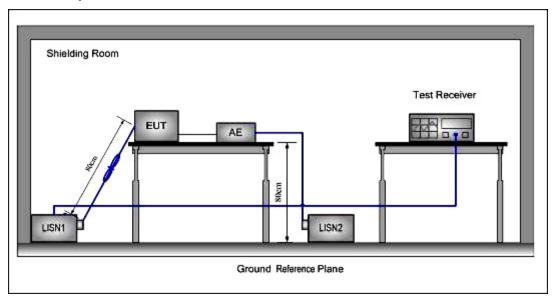
## 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 52 %RH Atmospheric Pressure: 1003 mbar

EUT Operation: Test the EUT in PC connection mode.

### 7.1.2 Test Setup and Procedure





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1. The mains terminal disturbance voltage test was conducted in a shielded room.

- 2. The EUT was connected to nominal power supply through a LISN 1 (Line Impedance Stabilization Network) which provides a  $50\Omega/50\mu H + 5\Omega$  linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.



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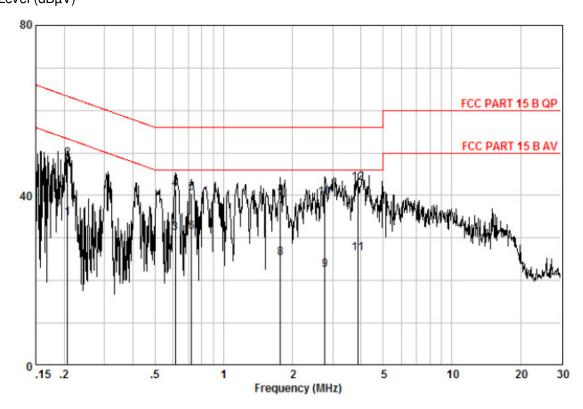
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### 7.1.3 Measurement Data

Pre-scan was performed with peak detected on both live and neutral cable. Quasi-peak & average measurements were performed at the frequencies which maximum peak emission level was detected. Please see the attached Quasi-peak and Average test results.

#### Live Line:

Peak Scan: Level (dBµV)



Quasi-peak and Average measurement

Freq	Read Level	Cable Loss	LISN Factor	Level		Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.206 0.206 0.614 0.614 0.724 0.724 1.772 1.772 2.779 2.779 3.860 3.860	24.82 38.90 21.60 31.78 30.92 21.74 29.10 15.60 12.60 29.80 16.67 33.06	0.13 0.13 0.05 0.05 0.04 0.04 0.02 0.11 0.11	9.62 9.62 9.62 9.62 9.64 9.64 9.64 9.64	34.57 48.65 31.26 41.44 40.58 31.40 38.76 25.26 22.35 39.55 26.45 42.84	63.36 46.00 56.00 56.00 46.00 46.00 56.00 46.00	-14.71 -14.74 -14.56 -15.42 -14.60 -17.24 -20.74 -23.65 -16.45	AVERAGE QP AVERAGE QP AVERAGE AVERAGE QP AVERAGE

Level = Read Level + LISN Factor + Cable Loss.



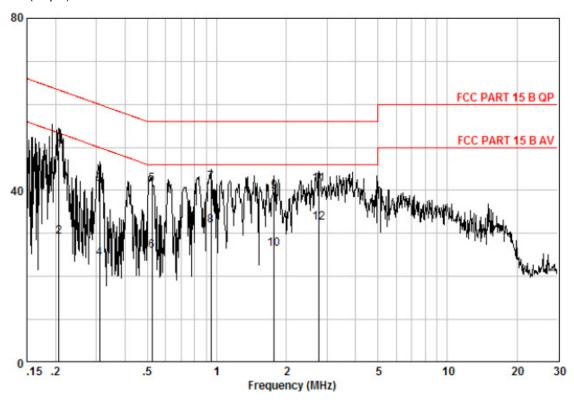
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### **Neutral Line:**

Peak Scan: Level (dBµV)



### Quasi-peak and Average measurement:

Freq	Read Level		LISN Factor			Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.310 0.524 0.524 0.943 0.943	39.60 19.41 31.66 14.44 31.80 16.24 32.08 22.26 30.08	0.13 0.13 0.08 0.08 0.05 0.05 0.04 0.04	9.63 9.63 9.63 9.63	49.35 29.16 41.36 24.14 41.48 25.92 41.75 31.93 39.76	53.36 59.97 49.97 56.00 46.00 56.00	-18.61 -25.83 -14.52 -20.08 -14.25	AVERAGE QP AVERAGE QP AVERAGE QP AVERAGE
1.772 2.779 2.779	16.74 31.54 22.65	0.02 0.11 0.11		41.32	56.00	-14.68	AVERAGE QP AVERAGE

Level = Read Level + LISN Factor + Cable Loss.



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### 7.2 Radiated Emissions, 30 MHz to 1 GHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4
Test Voltage: 120V AC, 60Hz
Test Date: 2011-06-09
Frequency Range: 30MHz to 1GHz

Measurement Distance: 3 m

Detector: Peak for pre-scan

Quasi-Peak if maximised peak within 6dB of limit

(120 kHz resolution bandwidth)

Class / Limit: Class B

Frequency range MHz	<b>Quasi-peak limits</b> dB (μV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54
At transitional frequencies the lower limit applies.	

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 50 %RH Atmospheric Pressure: 1010 mbar

EUT Operation: Test the EUT in PC connection mode.

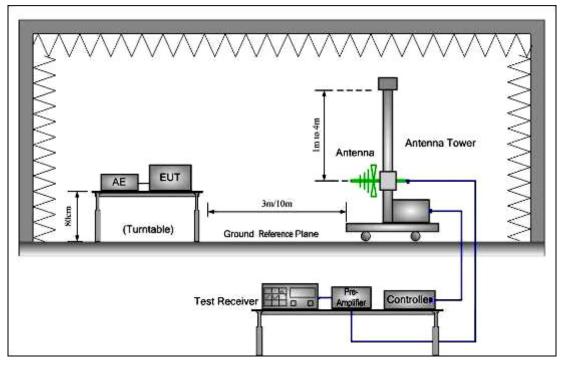


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### 7.2.2 Test Setup and Procedure



- 1. The radiated emissions test was conducted in a semi-anechoic chamber.
- 2. Biconical and log periodic antenna was used for the frequency range from 30MHz to 1GHz
- 3. The EUT was connected to nominal power supply through a mains power outlet which was bonded to the ground reference plane; The mains cables were draped to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.
- 5. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.



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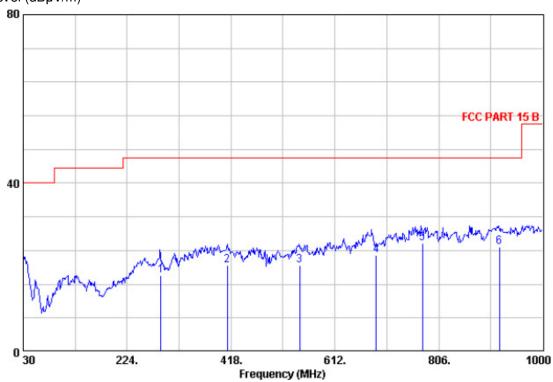
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### 7.2.3 Measurement Data

#### Vertical:

Peak scan

Level (dBµV/m)



### Quasi-peak measurement

Freq		kntenna Factor		Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
286.630	31.29	12.43	1.50	27.09	18.13	46.00	-27.87	QP
411.070	30.16	16.40	1.80	27.80	20.56	46.00	-25.44	QP
545.850	28.16	18.44	2.10	28.20	20.50	46.00	-25.50	QP
688.740	29.84	18.68	2.40	27.93	22.99	46.00	-23.01	QP
775.650	31.16	19.80	2.50	27.69	25.78	46.00	-20.22	QP
918.790	27.93	20.98	2.70	26.77	24.85	46.00	-21.15	OP

Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor.



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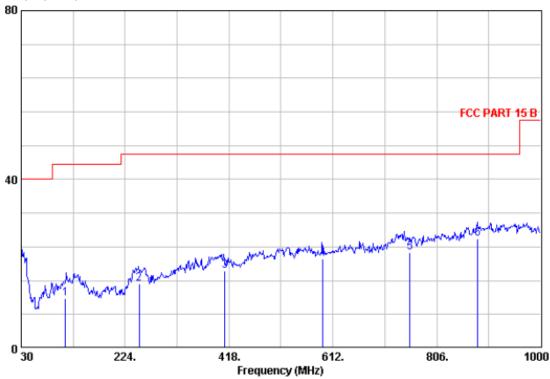
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### Horizontal:

Peak scan

Level (dBµV/m)



### Quasi-peak measurement

	Readàntenna		Cable Preamp		Limit		Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	dB		dBuV/m	dBnV/m	dB		
nnz	abuv	GD/III	ав	аь	ubuv/m	abuv/m	аь		
112.630	26.69	11.80	0.90	27.60	11.79	43.50	-31.71	QP	
250.000	29.51	11.60	1.40	27.15	15.36	46.00	-30.64	QP	
410.020	27.93	16.40	1.80	27.80	18.33	46.00	-27.67	QP	
593.690	28.65	18.68	2.10	28.37	21.06	46.00	-24.94	QP	
755.365	27.76	20.20	2.40	27.74	22.62	46.00	-23.38	QP	
882.340	29.65	20.60	2.60	26.88	25.97	46.00	-20.03	QP	

Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor.



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### 7.3 Radiated Emissions above 1 GHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4
Test Voltage: 120V AC, 60Hz
Test Date: 2011-06-09

Frequency Range: 1 GHz to 12.75GHz.

Measurement Distance: 3 m

Detector: Peak for pre-scan

Peak and Average if maximised peak within 6 dB of limit

(1 MHz resolution bandwidth)

Class / Limit: Class B

For Class B

Erogueney renge	Class B Limits				
Frequency range MHz	dB (μV/m)				
1711 12	peak	Average			
Above 1000	74	54			

# 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 45 %RH Atmospheric Pressure: 1008 mbar

EUT Operation: Test the EUT in PC connection mode.

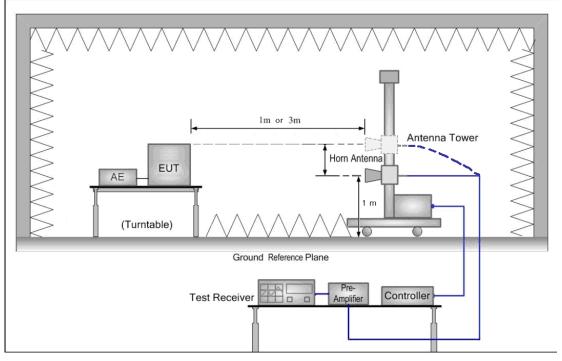


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### 7.3.2 Test Setup and Procedure



- 1. The radiated emissions test was conducted in a fully-anechoic chamber.
- 2. Horn antenna was used for the frequency above 1GHz
- 3. The EUT was connected to nominal power supply through a mains power outlet which was bonded to the ground reference plane; the mains cables were draped to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emission spectrum plots of the EUT.
- 5. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.



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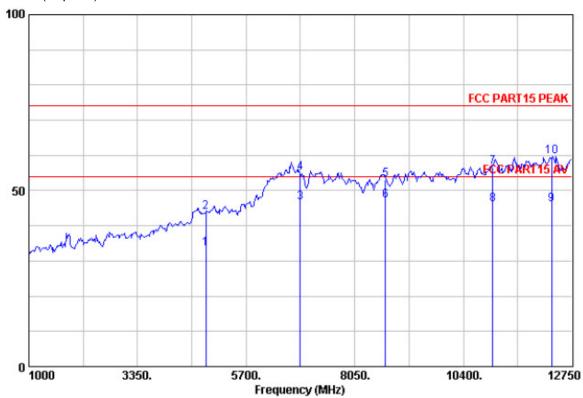
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### 7.3.3 Measurement Data

#### Vertical:

Peak scan

Level (dBµV/m)



Peak and Average measurement:

Freq		intenna Factor		Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	——dB	dBuV/m	dBuV/m	dB	
4825.000	29.06	31.54	6.30	33.37	33.53	54.00	-20.47	Average
4825.000	39.40	31.54	6.30	33.37	43.87	74.00	-30.13	Peak
6865.000	38.63	34.84	5.92	32.89	46.50	54.00	-7.50	Average
6865.000	47.12	34.84	5.92	32.89	54.98	74.00	-19.02	Peak
8718.000	42.02	36.92	8.09	33.78	53.24	74.00	-20.76	Peak
8718.000	35.90	36.92	8.09	33.78	47.12	54.00	-6.88	Average
11030.000	42.34	40.22	8.01	33.79	56.78	74.00	-17.22	Peak
11030.000	31.54	40.22	8.01	33.79	45.98	54.00	-8.02	Average
12305.000	29.15	39.00	10.43	32.58	46.00	54.00	-8.00	Average
12305.000	42.87	39.00	10.43	32.58	59.72	74.00	-14.29	Peak

Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor.



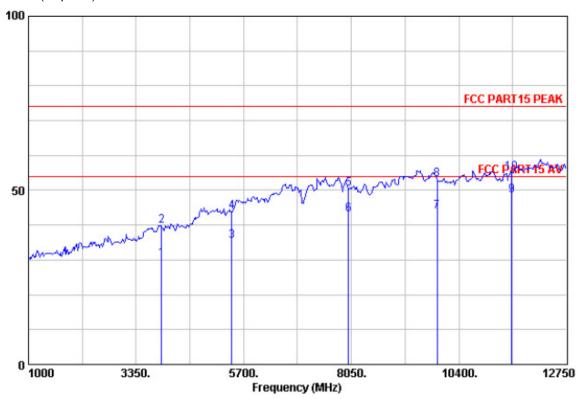
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### Horizontal:

Peak scan Level (dBµV/m)



### Peak and Average measurement:

	Readàntenna		Cable	Preamp	Limit		Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
3907.000	28.78	29.76	6.37	34.76	30.14	54.00	-23.86	Average
3907.000	38.31	29.76	6.37	34.76	39.68	74.00	-34.32	Peak
5437.000	30.97	31.93	6.57	33.94	35.52	54.00	-18.48	Average
5437.000	39.45	31.93	6.57	33.94	44.00	74.00	-30.00	Peak
7987.000	39.12	37.19	7.70	33.73	50.28	74.00	-23.72	Peak
7987.000	31.98	37.19	7.70	33.73	43.14	54.00	-10.86	Average
9925.000	30.85	38.63	8.76	34.26	43.99	54.00	-10.01	Average
9925.000	40.09	38.63	8.76	34.26	53.22	74.00	-20.78	Peak
11557.000	33.53	40.14	8.49	33.57	48.59	54.00	-5.41	Average
11557.000	40.05	40.14	8.49	33.57	55.12	74.00	-18.88	Peak

Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor.

### -- End of Report--