



# FCC Test Report

For

Electronic Scale

FCC ID : WL7HILEXYSASPS01  
Model Name : ASPS-001  
Applicant : Shanghai Yousheng Weighing Apparatus Co.,Ltd  
Address : Building 58, No.99 Chunguang Road, Xinzhuang Industrial Zone,  
Minhang, Shanghai, China  
Report No. : 0803070-SF-03V01  
Received : 2008/07/18  
Report Data : 2008/08/04  
Test Location : CERPASS TECHNOLOGY (SUZHOU) CO., LTD  
LAB Address : No.66, Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China  
TEL: +86-512-6917-5888  
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- The test results relate only to the test samples.
- Without the written authorization of the test lab, the test report may not be copied.
- This report must not be used to claim product endorsement by CNLA, NVLAP, NIST or any agency of the Government.

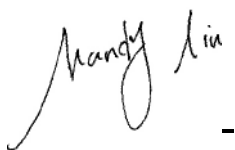
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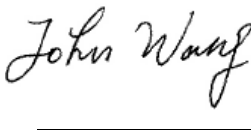
ANSI C63.4 -2003			
FCC CFR Title 47 Part 15 Subpart C: 2007			
Requirement--Test	Normative References	Result	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.249(d),15.207	Pass	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.209, 15.35(c)	Pass	No
Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.215(c).15.249(f),15.37(d)	Pass	No

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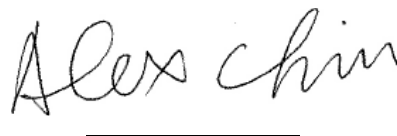
Documented By:

  
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Approved By:

  
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Released By:

  
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## 1. GENERAL INFORMATION

### 1.1. DESCRIPTION OF EUT

#### 1.1.1. GENERAL INFORMATION OF EUT

Product Name	Electronic Scale
Trade Name	N/A
Model No.	ASPS-001
FCC ID	WL7HILEXYSASPS01
Working Voltage	DC 4.5V
Frequency Range	915MHz
Channel Number	1
Type of Modulation	FSK
Antenna type	Whip Antenna
Antenna Gain	0.5dBi

#### 1.1.2. GENERAL INFORMATION OF ANTENNA

No.	Manufacturer	Model No.	Peak Gain
1	Shanghai Yousheng Weighing Apparatus Co, Ltd	YSA915A	0.5dBi

## 1.2. TEST METHOD

According to the major function designed, the EUT was set up by the following steps.

(1)	Setup the EUT and simulators.
(2)	Turn on the power of all equipment;
(3)	Run the test software for controlling EUT transmitting mode.

## 1.3. TEST MODE

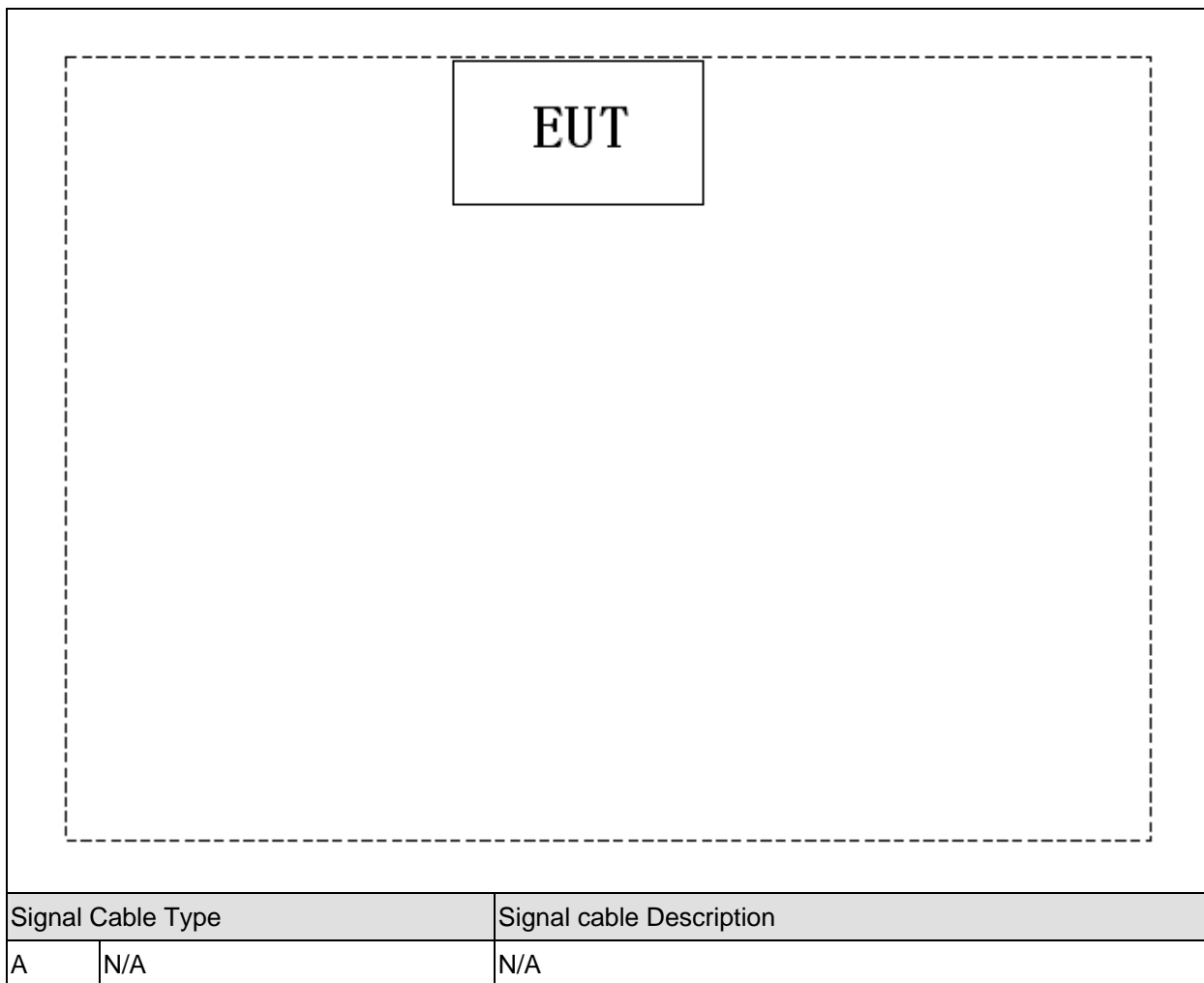
All the test modes were carried out with the EUT in normal operation, the final test model as show  
Below:

Pre-Test Mode
Mode 1: Transmit by Electronic scale
Final Test Mode
Mode 1: Transmit by Electronic scale

## 1.4. SUPPORT EQUIPMENT

No.	Product name	Manufacture	Model No.	Serial No.
1	N/A	N/A	N/A	N/A

## 1.5. TEST SETUP



## 1.6. TEST AND MEASUREMENT EQUIPMENT

### TEST EQUIPMENT LIST

#### Conducted Emission (SR 101)

Item	Equipment name	Manufacturer	Model No	Serial No	Cal. Date
1	EMC Emission Tester	EMCPARTNER	Harmonics-1000	159	2008.06.30
2	Test Receiver	R&S	ESCI	100565	2008.06.30
3	AMN	R&S	ESH2-Z5	100182	2008.06.30
4	Two-Line V-Network	R&S	ENV216	100325	2008.06.30
5	ISN	FCC	FCC-TLISN-T2-02	20379	2008.06.30
6	ISN	FCC	FCC-TLISN-T4-02	20380	2008.06.30
7	ISN	FCC	FCC-TLISN-T8-02	20381	2008.06.30
8	Current Probe	R&S	EZ-17	100303	2008.06.30
9	Passive Voltage Probe	R&S	ESH2-Z3	100026	2008.06.30
10	Decoupling Clamp	LUTHI	FTC 40 X 15 E	5685	2008.07.01
11	Absorbing Clamp	Schwarzbeck	MDS21	3753	2008.05.03
12	Power Divider	Agilent	11636A	09523	2008.06.30
13	Minimum Loss Pad	Agilent	11852B	61650	2008.06.30
14	Temperature/Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2007.10.10

#### Radiation Emission (AC 102)

Item	Equipment name	Manufacturer	Model No	Serial No	Cal. Date
1	EMI Test Receiver	R&S	ESCI	100564	2008.06.30
2	Preamplifier	Agilent	87405B	My39500554	2007.08.02
3	Preamplifier	R&S	PR-AMP26	1248791	2008.07.01
4	Ultra Broadband Antenna	R&S	HL562	100362	2008.06.30
5	Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-001	2007.10.10
6	Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2007.10.15
7	Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2007.10.10

Band Edge (AC 102)

Item	Equipment name	Manufacturer	Model No	Serial No	Cal. Date
1	EMI Test Receiver	R&S	ESCI	100564	2008.06.30
2	Preamplifier	Agilent	87405B	My39500554	2007.08.02
3	Preamplifier	R&S	PR-AMP26	1248791	2008.07.01
4	Ultra Broadband Antenna	R&S	HL562	100362	2008.06.30
5	Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-001	2007.10.10
6	Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2007.10.15
7	Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2007.10.10



## 1.7. MEASUREMENT UNCERTAINTY

Conducted Emission
The measurement uncertainty is evaluated as $\pm 2.24$ dB.
Radiated Emission
(30MHz -1000MHz) The measurement uncertainty is evaluated as $\pm 2.98$ dB. (1000MHz -18000MHz) The measurement uncertainty is evaluated as $\pm 3.29$ dB.
Band Edge
The measurement uncertainty is defined as $\pm 1.27$ dB

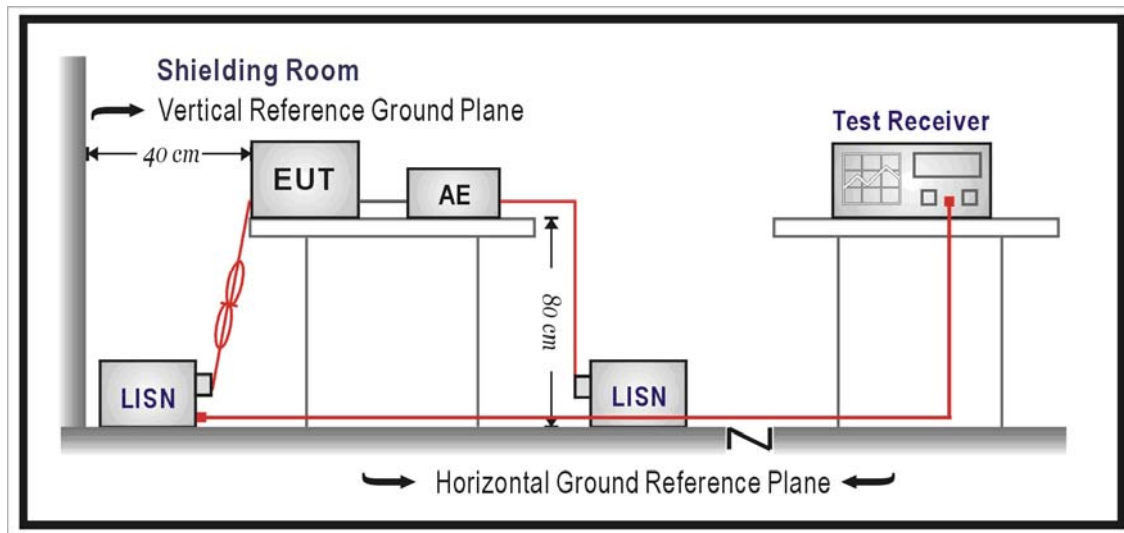
## 1.8. TEST ENVIRONMENT

Test Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	24
	Humidity (%RH)	25-75	45
	Barometric pressure (Kpar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	23
	Humidity (%RH)	25-75	48
	Barometric pressure (Kpar)	860-1060	950-1000
Band Edge	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	45
	Barometric pressure (Kpar)	860-1060	950-1000

## 2. CONDUCTED EMISSION (MAIN TERMINALS)

Test Result:	Pass
Deviation:	No

### 2.1. TEST SETUP



### 2.2. LIMIT

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note: In the above table, the tighter limit applies at the band edges.

## 2.3. TEST PROCEDURE

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

(Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

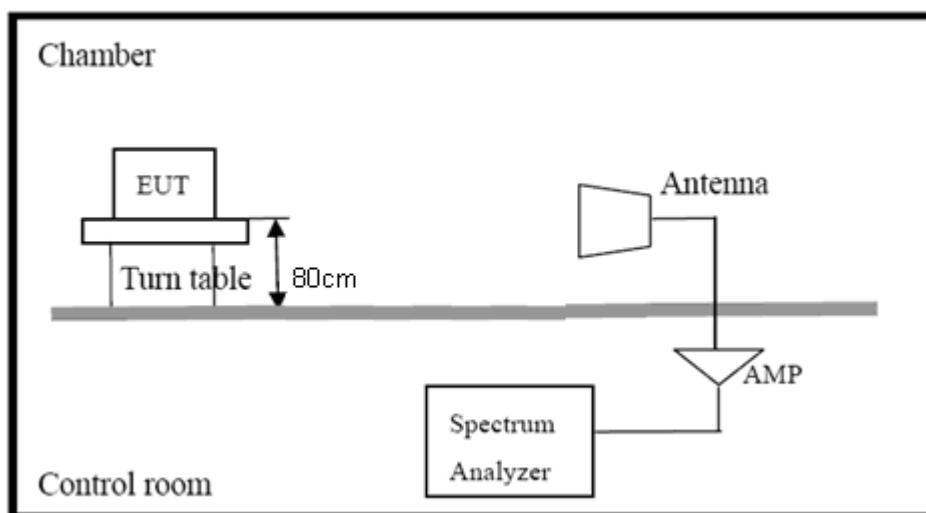
## 2.4. TEST RESULT

The EUT is power supplied by the battery, so the test item needn't performance.

### 3. RADIATED EMISSION

Test Result:	Pass
Deviation:	No

#### 3.1. TEST SETUP



### 3.2. LIMIT

FCC Part 15 Subpart C Paragraph 15.209 Limits (dBuV/m)		
Frequency (MHz)	Distance (m)	dBuV/m
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

FCC Part 15 Subpart C Paragraph 15.249 Limits (dBuV/m)			
Fundamental Frequency (MHz)	Distance (m)	Field Strength of Fundamental (dBuV/m)	Field Strength of Harmonics (dBuV/m)
902-928	3	94	54
2400-2483.5	3	94	54
5725-5875	3	94	54
24000-24250	3	107	67

Note:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

### 3.3. TEST PROCEDURE

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

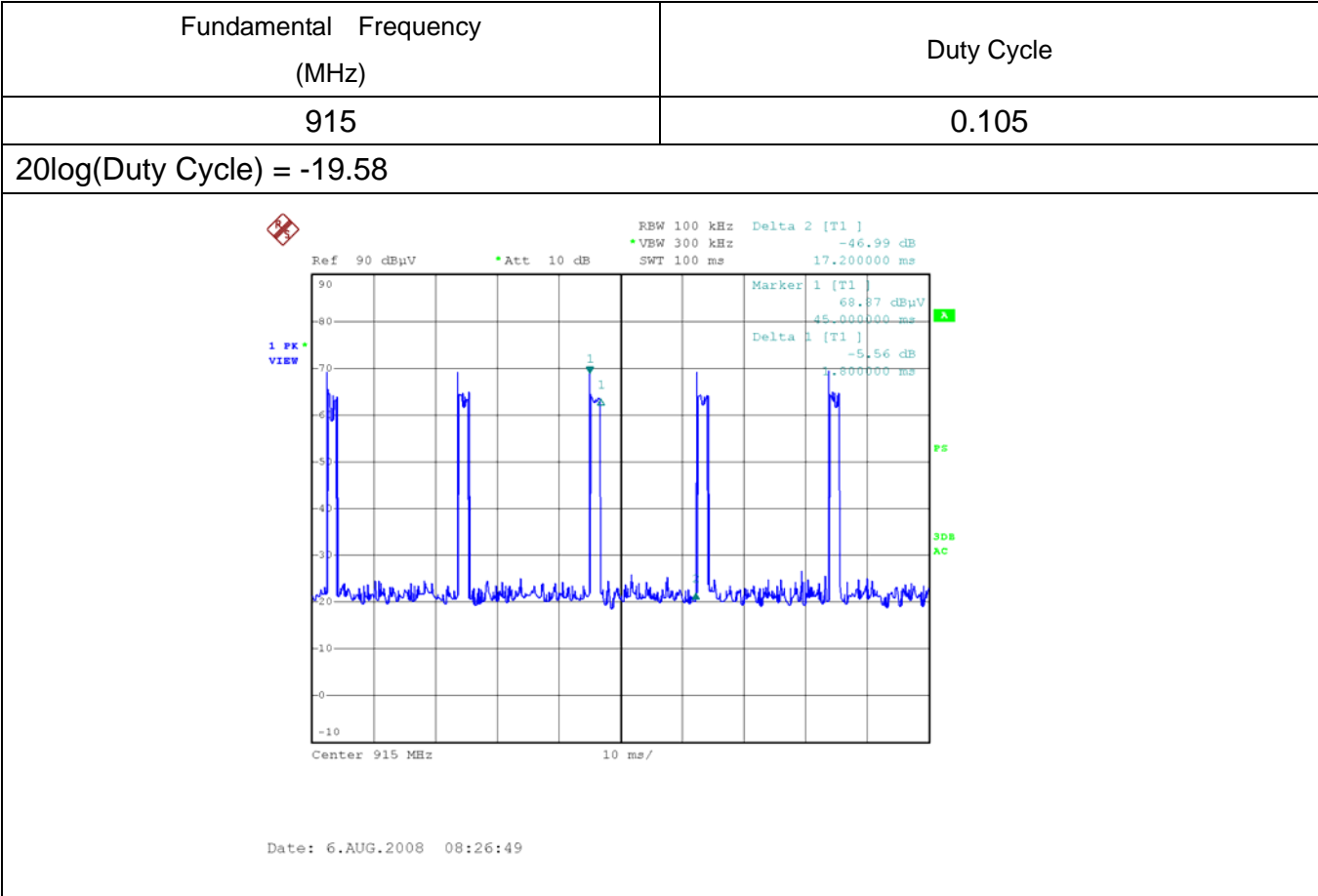
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCI) is 120 kHz and above 1GHz is 1MHz.

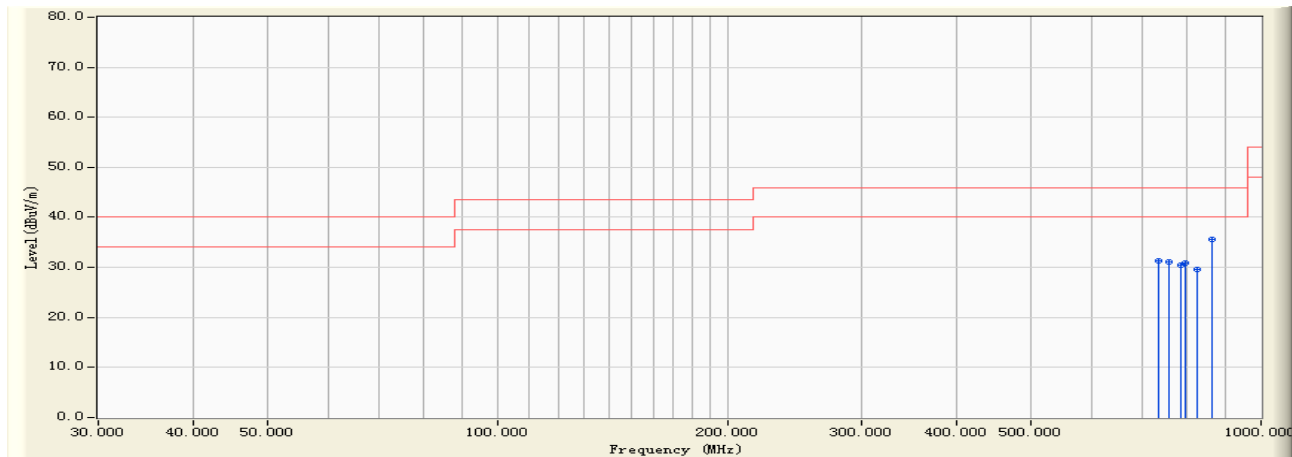
3.4. TEST RESULT

Fundamental Frequency (MHz)	Polarize	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Test Result
914.89	HORIZONTAL	3.424	89.213	92.638	94	1.362	Quasi-Peak	Pass
914.89	VERTICAL	3.424	89.253	92.678	94	1.322	Quasi-Peak	Pass





Engineer : Topguns	
Site : EMC Lab AC 102	Time : 2008/07/19 - 16:10
Limit : FCC_ Part 15.209_03M_QP	Margin : 6
EUT : Envirocount Scale	Probe : HL562 (30-1000MHz) - HORIZONTAL
Power : DC 4.5V	Note : Mode 1: Transmit by Electronic scale

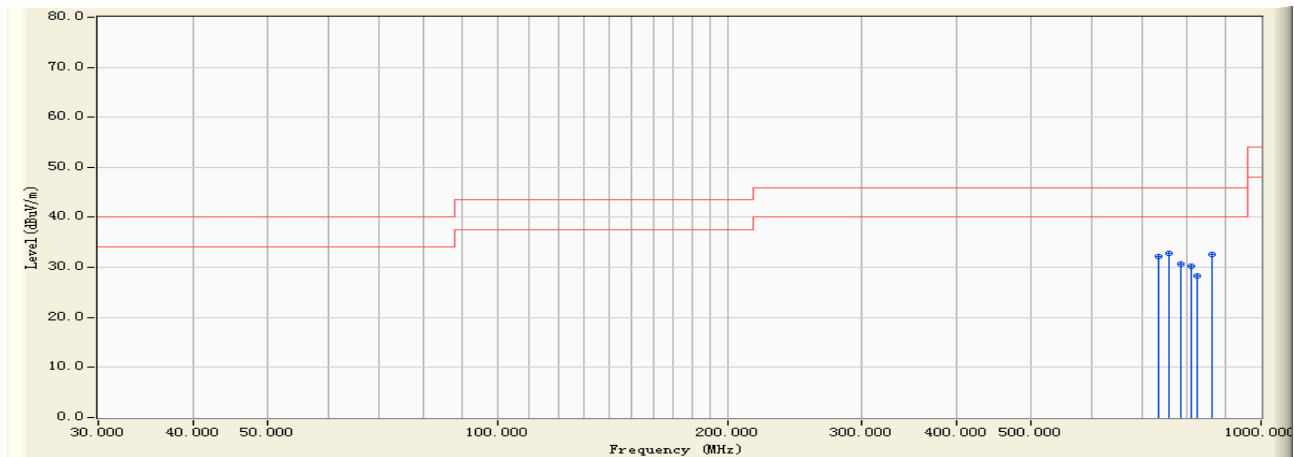


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		732.814	-0.008	31.350	31.341	-14.659	46.000	QUASIPeAK
2		757.984	0.647	30.347	30.994	-15.006	46.000	QUASIPeAK
3		785.090	0.905	29.480	30.385	-15.615	46.000	QUASIPeAK
4		796.707	1.159	29.797	30.956	-15.044	46.000	QUASIPeAK
5		823.812	1.589	28.045	29.634	-16.366	46.000	QUASIPeAK
6	*	862.535	2.372	33.208	35.579	-10.421	46.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Topguns	
Site : EMC Lab AC 102	Time : 2008/07/19 - 16:10
Limit : FCC_Part 15.209_03M_QP	Margin : 6
EUT : Envirocount Scale	Probe : HL562(30-1000MHz) - VERTICAL
Power : DC 4.5V	Note : Mode 1: Transmit by Electronic scale

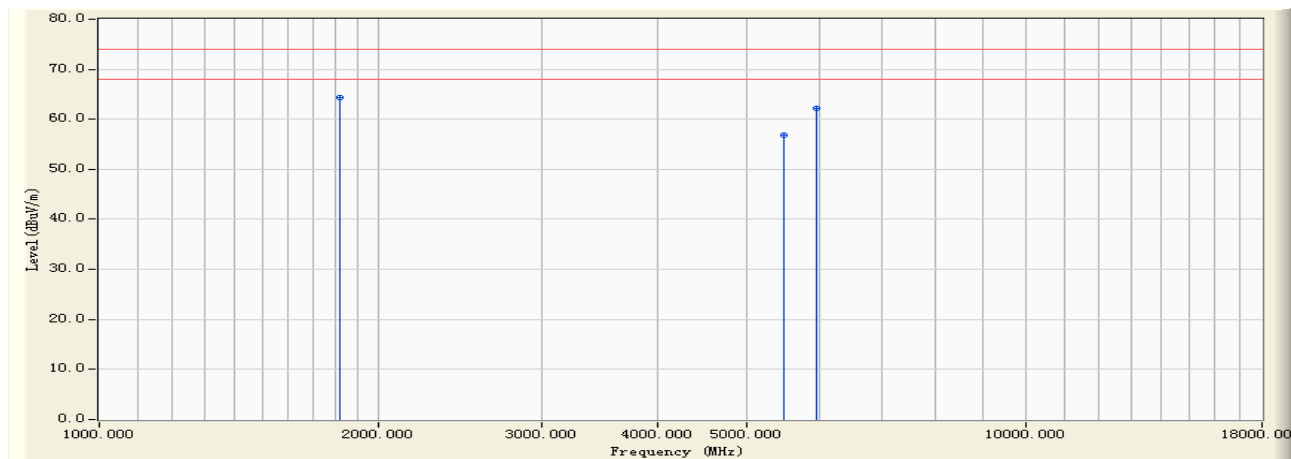


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		732.814	-0.008	32.254	32.245	-13.755	46.000	QUASIPeAK
2	*	757.984	0.647	32.189	32.836	-13.164	46.000	QUASIPeAK
3		785.090	0.905	29.861	30.766	-15.234	46.000	QUASIPeAK
4		810.259	1.347	28.897	30.244	-15.756	46.000	QUASIPeAK
5		823.812	1.589	26.664	28.253	-17.747	46.000	QUASIPeAK
6		862.535	2.372	30.145	32.516	-13.484	46.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Topguns	
Site : EMC Lab AC 102	Time : 2008/07/19 - 16:04
Limit : FCC_Part 15.209_03M_PK	Margin : 6
EUT : Envirocount Scale	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : DC 4.5V	Note : Mode 1: Transmit by Electronic scale

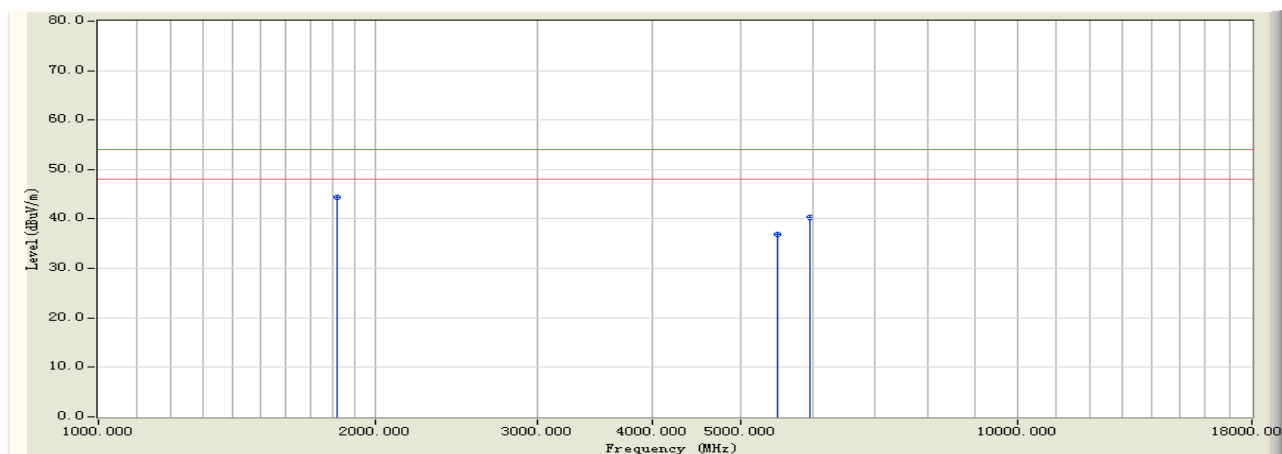


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1816.000	-4.728	68.980	64.252	-9.748	74.000	PEAK
2		5474.000	1.567	55.200	56.767	-17.233	74.000	PEAK
3		5948.000	2.404	59.900	62.303	-11.697	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Topguns	
Site : EMC Lab AC 102	Time : 2008/07/19 - 16:04
Limit : FCC_ Part 15.209_03M _AV	Margin : 6
EUT : Envirocount Scale	Probe : BBHA9120D(1-18GHz) - HORIZONTAL
Power : DC 4.5V	Note : Mode 1: Transmit by Electronic scale

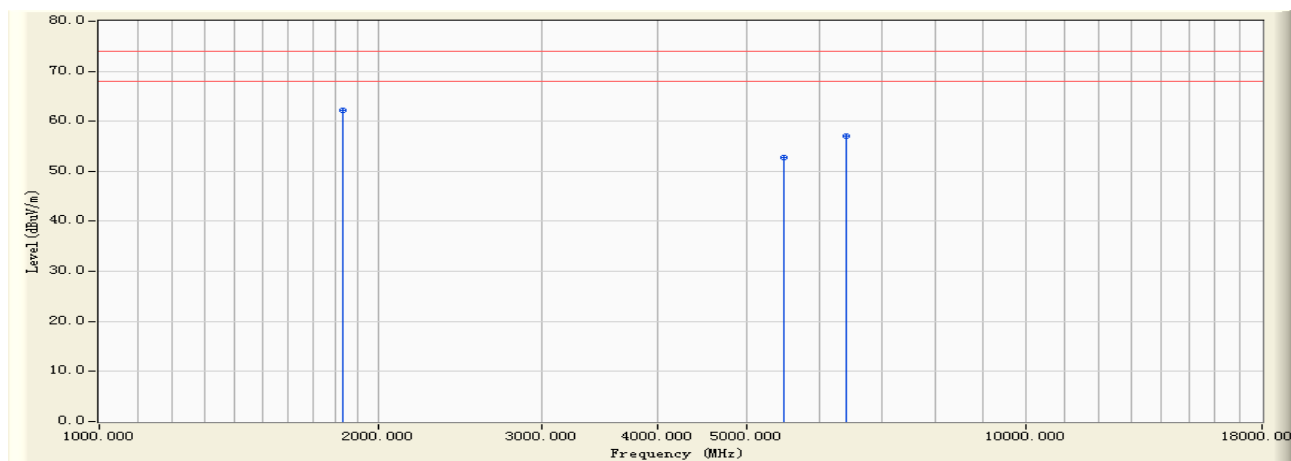


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1816.000	-4.728	49.400	44.672	-9.328	54.000	AVERAGE
2		5474.000	1.567	35.620	37.187	-16.813	54.000	AVERAGE
3	*	5948.000	2.404	40.320	42.723	-11.277	54.000	AVERAGE

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Topguns	
Site : EMC Lab AC 102	Time : 2008/07/19 - 16:04
Limit : FCC_Part 15.209_03M_PK	Margin : 6
EUT : Envirocount Scale	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : DC 4.5V	Note : Mode 1: Transmit by Electronic scale

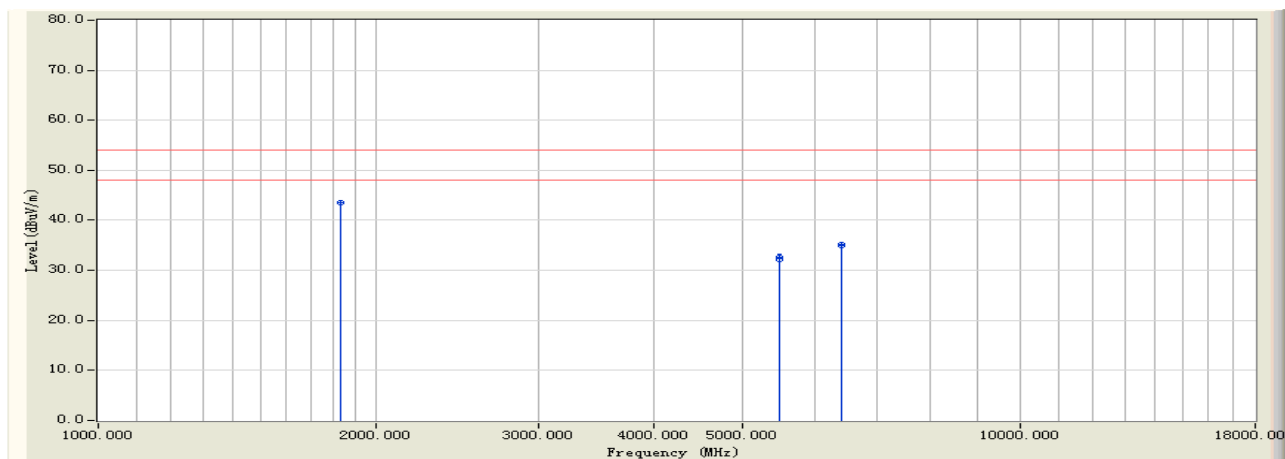


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1830.000	-5.744	68.000	62.256	-11.744	74.000	PEAK
2		5491.000	1.569	51.200	52.768	-21.232	74.000	PEAK
3		6406.000	4.025	53.100	57.125	-16.875	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Topguns	
Site : EMC Lab AC 102	Time : 2008/07/19 - 16:04
Limit : FCC_Part 15.209_03M_AV	Margin : 6
EUT : Envirocount Scale	Probe : BBHA9120D(1-18GHz) - VERTICAL
Power : DC 4.5V	Note : Mode 1: Transmit by Electronic scale



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1830.000	-5.744	48.420	42.676	-11.324	54.000	AVERAGE
2		5491.000	1.569	31.620	33.188	-20.812	54.000	AVERAGE
3	*	6406.000	4.025	33.520	37.545	-16.455	54.000	AVERAGE

Note:

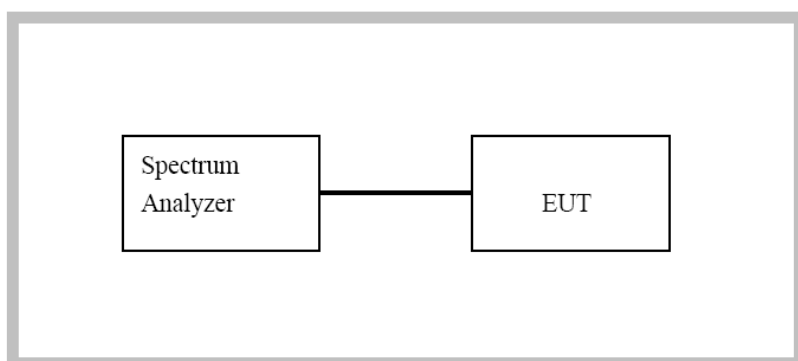
1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

#### 4. BAND EDGE

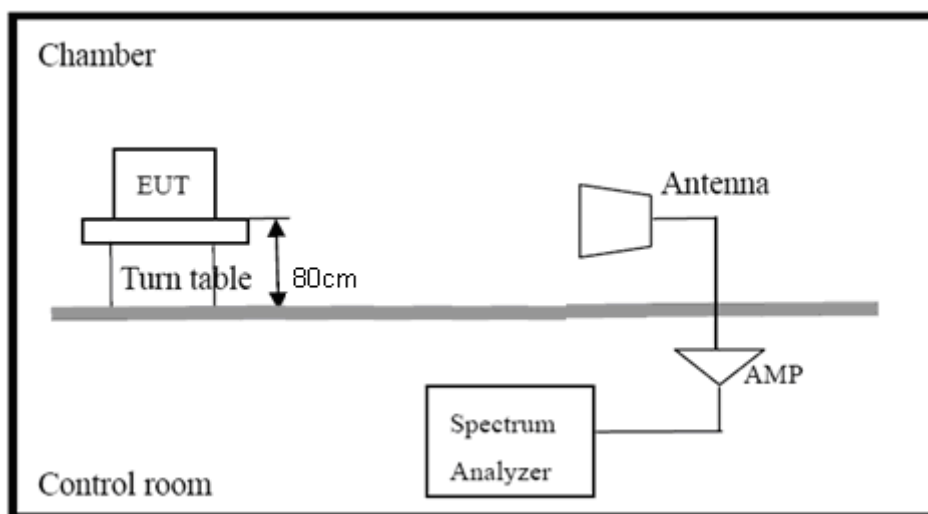
Test Result:	Pass
Deviation:	No

#### 4.1. TEST SETUP

RF Conducted Measurement



RF Radiated Measurement



## 4.2. LIMIT

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operation, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a).

Operating frequency range (MHz)	Spurious emission frequency (MHz)	LIMIT	
		Peak power ration to emission (dBc)	Emission level (dBuV/m)
902-928	<902	>20	N/A
	>928	>20	N/A
	960-1240	N/A	54
2400-2483.5	<2400	>20	N/A
	>2483.5-2500	N/A	54
5725-5850	<5350-5460	N/A	54
	<5725	>20	N/A
	>5850	>20	N/A

## 4.3. TEST PROCEDURE

### For RF Conducted Measurement:

Place the EUT on a bench and set it in transmitting mode.

Connect a low loss RF cable from the antenna port to a spectrum analyzer.

Add a correction factor to the display, and then test.

### For RF Radiated Measurement:

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated



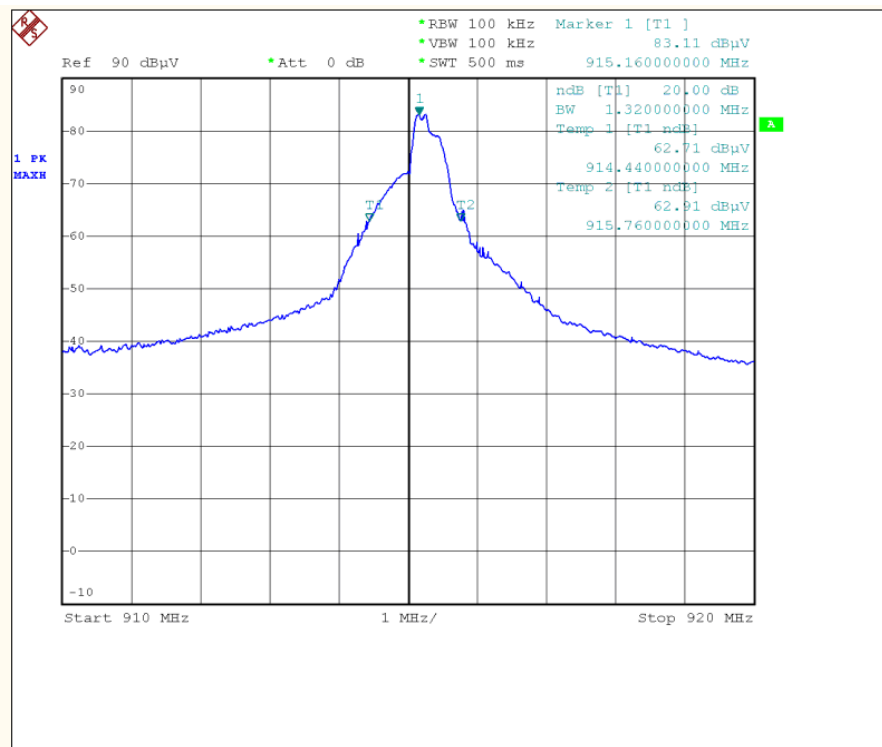
measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

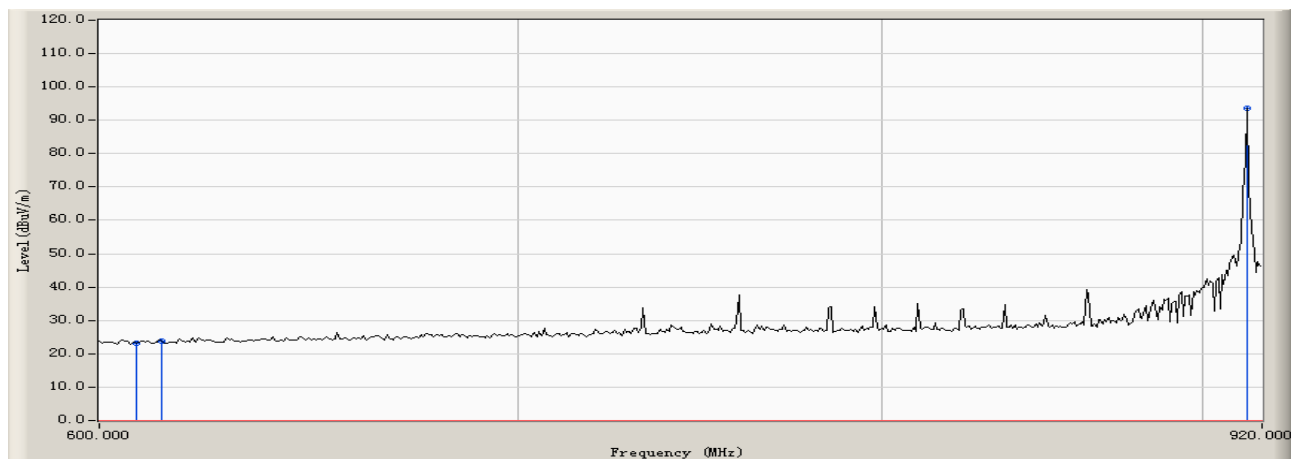
The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCI) is 120 kHz and above 1GHz is 1MHz.

#### 4.4. TEST RESULT

Product Name	Envirocount Scale	Test Date	2008-07-11
Test Mode	Mode 1: Transmit by Electronic Scale	Test Site	AC 102
Test Item	20dB BANDWIDTH		
Test Channel	915MHz		
Test Result	Pass		



Site : EMC Lab AC 102	Time : 2008/07/19 - 16:39
EUT : Envirocount Scale	Probe : HL562(30-3000MHz) - HORIZONTAL
Power : DC 4.5V	Note : Mode 1: Transmit by Electronic scale

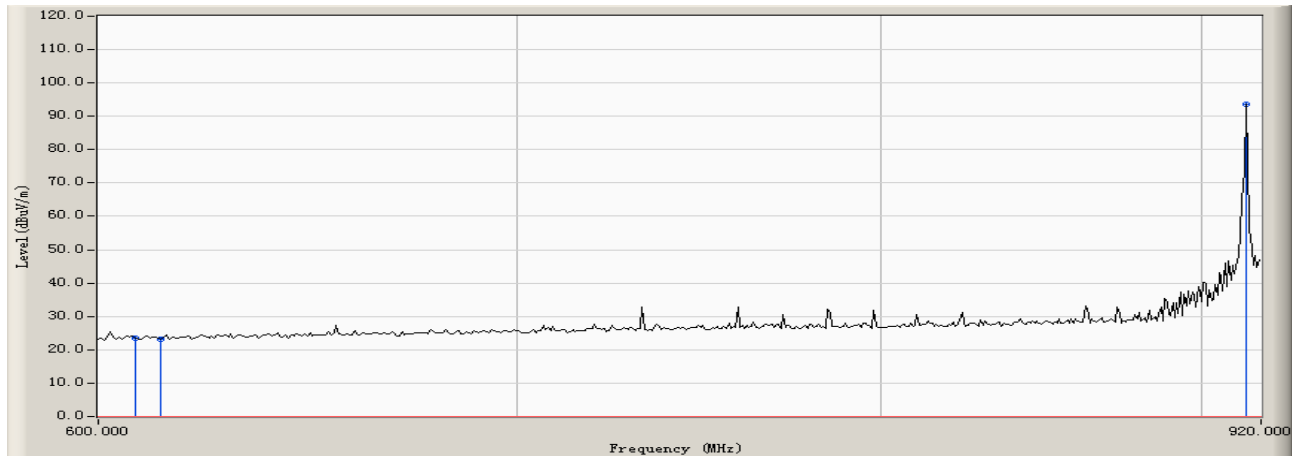


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		608.303	-2.383	25.518	23.135	23.865	47.000	QUASIPeAK
2		614.052	-2.398	26.285	23.887	23.130	47.000	QUASIPeAK
3	*	914.890	3.424	89.213	92.638	1.362	94.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : topguns	
Site : EMC Lab AC 102	Time : 2008/07/19 - 16:35
EUT : Envirocount Scale	Probe : HL562(30-3000MHz) - VERTICAL
Power : DC 4.5V	Note : Mode 1: Transmit by Electronic scale

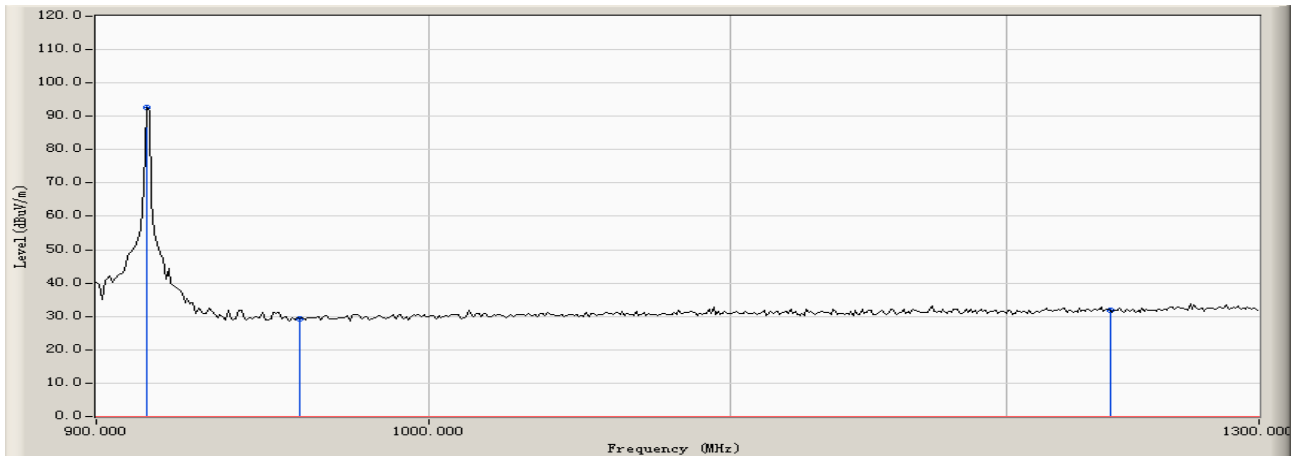


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		608.303	-2.383	25.767	23.384	23.616	47.000	QUASIPeAK
2		614.052	-2.398	25.570	23.172	23.828	47.000	QUASIPeAK
3	*	914.890	3.424	89.253	92.678	1.322	94.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : topguns	
Site : EMC Lab AC 102	Time : 2008/07/19 - 16:42
EUT : Envirocount Scale	Probe :HL562(30-3000MHz) - HORIZONTAL
Power : DC 4.5V	Note : Mode 1: Transmit by Electronic scale

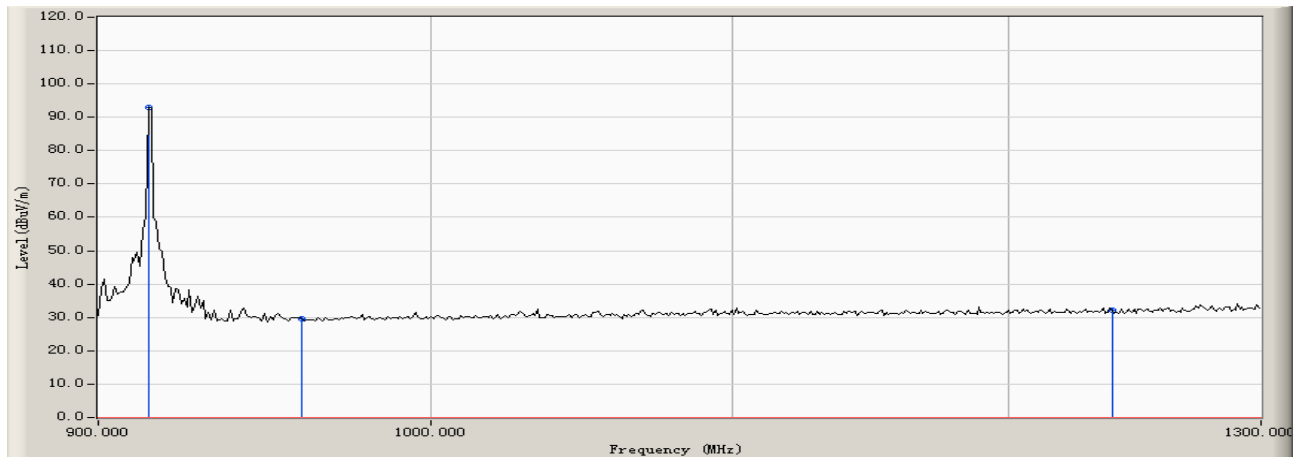


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	914.371	3.412	89.089	92.502	1.498	94.000	QUASIPeAK
2		959.880	3.757	25.677	29.433	17.567	47.000	QUASIPeAK
3		1240.120	6.283	25.577	31.860	15.140	47.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : topguns	
Site : EMC Lab AC 102	Time : 2008/07/19 - 16:46
EUT : Envirocount Scale	Probe : HL562(30-3000MHz) - VERTICAL
Power : DC 4.5V	Note : Mode 1: Transmit by Electronic scale



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	914.371	3.412	89.495	92.908	1.092	94.000	QUASIPeAK
2		959.880	3.757	25.744	29.500	17.500	47.000	QUASIPeAK
3		1240.120	6.283	26.048	32.331	14.669	47.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor