

FCC Test Report

FCC ID:LNQSBWD60A

Product : ScreenBeam Mini2 Wireless Display Receiver

Trade Name : Actiontec

Model Name : SBWD60A

Serial Model : N/A

Report No. : NTEK-2014NT07091105F2-01

Prepared for

Actiontec Electronics, Inc.

760 North Mary Ave., Sunnyvale, California 94085 United States

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street,
Bao'an District, Shenzhen P.R. China

Tel.: +86-0755-61156588 Fax.: +86-0755-61156599

Website: www.ntek.org.cn

TEST RESULT CERTIFICATION

Applicant's name : Actiontec Electronics, Inc.
Address : 760 North Mary Ave., Sunnyvale, California 94085 United States
Manufacturer's Name : Actiontec Electronics, Inc.
Address : 760 North Mary Ave., Sunnyvale, California 94085 United States

Product description

Product name : ScreenBeam Mini2 Wireless Display Receiver
Model and/or type reference : SBWD60A
Serial Model : N/A

Standards : FCC Part15B 01 Oct. 2013
ANSI C63.4:2003

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personal only, and shall be noted in the revision of the document.

Date of Test :
Date (s) of performance of tests : 12 Aug. 2015 ~14 Aug. 2015
Date of Issue : 14 Aug. 2015
Test Result : **Pass**

Testing Engineer : Kyle Xu
(Kyle Xu)

Technical Manager : Brown Lu
(Brown Lu)

Authorized Signatory : Sam. Chen
(Sam Chen)

Table of Contents	Page
1 . TEST SUMMARY	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	7
2.3 DESCRIPTION OF TEST SETUP	8
2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	9
2.5 MEASUREMENT INSTRUMENTS LIST	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION	11
3.1.2 TEST PROCEDURE	12
3.1.3 TEST SETUP	12
3.1.4 EUT OPERATING CONDITIONS	12
3.1.5 TEST RESULTS	13
3.2 RADIATED EMISSION MEASUREMENT	17
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	17
3.2.2 TEST PROCEDURE	17
3.2.3 TEST SETUP	18
3.2.4 EUT OPERATING CONDITIONS	18
3.2.5 TEST RESULTS	19
4 . EUT TEST PHOTO	25

1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B:2013 ANSI C63.4: 2003 ICES-003 Issue 5 August 2012	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~6GHz	5.0	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	ScreenBeam Mini2 Wireless Display Receiver				
Model Name	SBWD60A				
Additional Model Number(s)	N/A				
Model Difference	N/A				
Product Description	The EUT is a ScreenBeam Mini2 Wireless Display Receiver.				
	<table border="1"> <tr> <td>Operating frequency:</td> <td>40MHz</td> </tr> <tr> <td>Connecting I/O port:</td> <td>HDMI,USB</td> </tr> </table>	Operating frequency:	40MHz	Connecting I/O port:	HDMI,USB
	Operating frequency:	40MHz			
Connecting I/O port:	HDMI,USB				
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.					
Adapter	Adapter 1: Mode: MU05B2050100-A1 Input: 100-240V~, 50/60Hz, 0.3A Output: 5V $\overline{\text{---}}$, 1.0A Adapter 2: Mode: SC050100-US Input: 100-240V~, 50/60Hz, 0.4A Output: 5V $\overline{\text{---}}$, 1000mA				
	Adapter 1: DC 5V,1.0A Adapter 2: DC 5V,1000mA				
Rating	Adapter 1: DC 5V,1.0A Adapter 2: DC 5V,1000mA				
Battery	N/A				

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

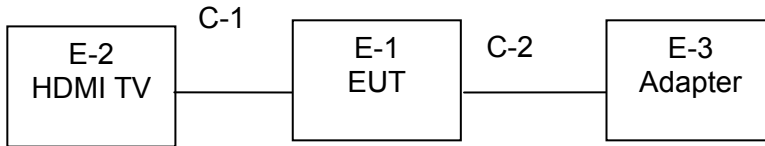
Pretest Mode	Description
Mode 1	Running

For Conducted Test	
Final Test Mode	Description
Mode 1	Running

For Radiated Test	
Final Test Mode	Description
Mode 1	Running

2.3 DESCRIPTION OF TEST SETUP

Mode 1:Mode 1



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	ScreenBeam Mini2 Wireless Display Receiver	Actiontec	SBWD60A	N/A	EUT
E-2	TV	SONY	KDL-24EX520	N/A	
E-3	Adapter 1	Actiontec	MU05B2050100-A1	N/A	
E-3	Adapter 2	Actiontec	SC050100-US	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	100cm	
C-2	NO	NO	80cm	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	LISN	R&S	ENV216	101490	Dec. 08, 2014	Dec. 07, 2015	1 year
2	LISN	R&S	ENV216	101313	Dec. 08, 2014	Dec. 07, 2015	1 year
3	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jun. 28, 2015	Jun. 27, 2016	1 year
4	Low frequency cable	N/A	C-2	C-2	Dec. 02, 2014	Dec. 01, 2015	1 year
5	EMI Test Receiver	R&S	ESCI	101160	Jun. 28, 2015	Jun. 27, 2016	1 year

2.5.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jun. 26, 2015	Jun. 25, 2016	1 year
2	Test Cable	N/A	R-01	N/A	Jun. 28, 2015	Jun. 27, 2016	1 year
3	Test Cable	N/A	R-02	N/A	Jun. 28, 2015	Jun. 27, 2016	1 year
4	EMI Test Receiver	R&S	ESCI-7	101318	Jun. 28, 2015	Jun. 27, 2016	1 year
5	Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A	N/A	N/A
7	50Ω Switch	Anritsu	MP59B	6200983705	Jun. 28, 2015	Jun. 27, 2016	1 year
8	Horn Antenna	EM	EM-AH-10180	60538	Jun. 26, 2015	Jun. 25, 2016	1 year
9	BBV9718 Broadband Preamplicifier 0.15-18GHz	SCHWARZBECK	9718-218	N/A	Dec. 24, 2014	Dec. 23, 2015	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

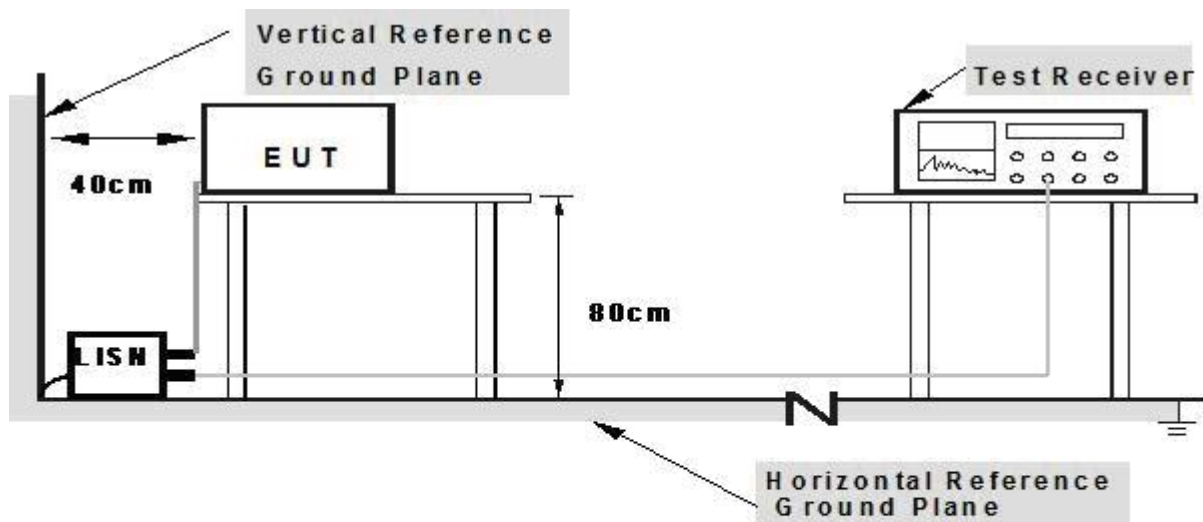
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 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

3.1.4 EUT OPERATING CONDITIONS

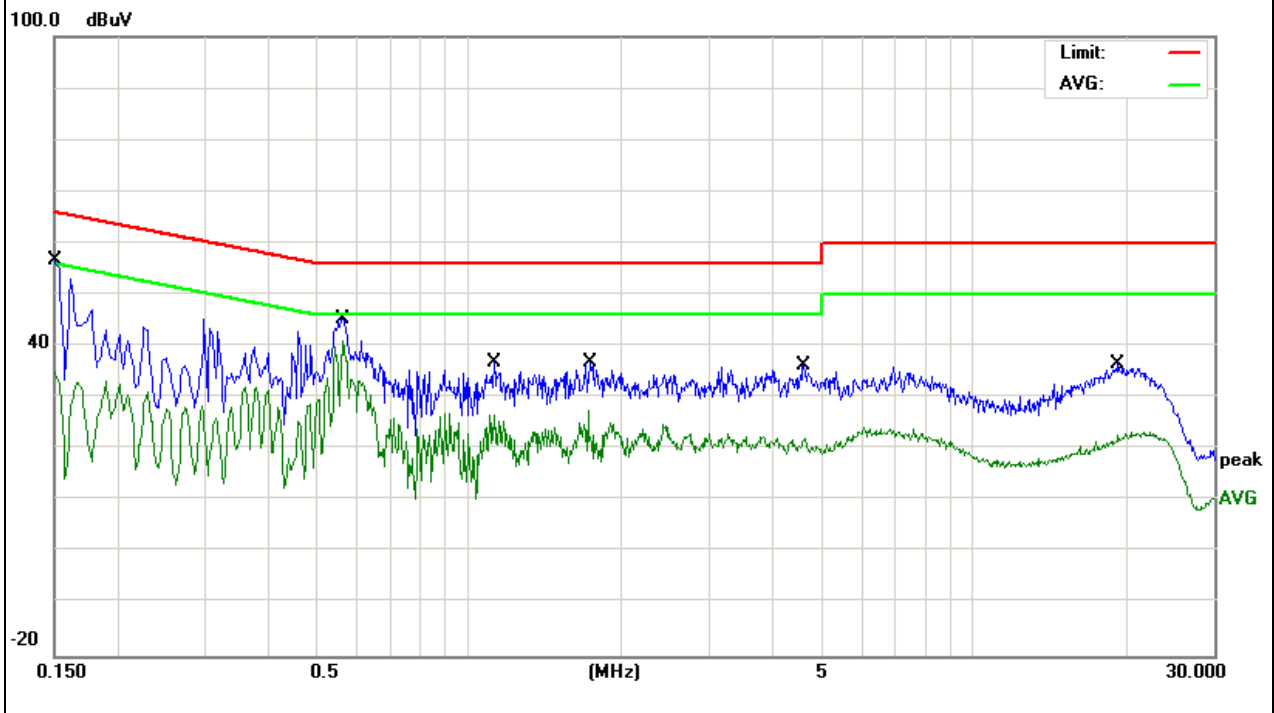
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.1.5 TEST RESULTS

EUT :	ScreenBeam Mini2 Wireless Display Receiver	Model Name. :	SBWD60A
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-13
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From Adapter AC120V/60Hz- Adapter 1		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
0.1500	46.97	9.63	56.60	65.99	-9.39	QP
0.1500	25.35	9.63	34.98	55.99	-21.01	AVG
0.5620	31.39	9.78	41.17	56.00	-14.83	QP
0.5620	31.39	9.78	41.17	46.00	-4.83	AVG
1.1220	27.21	9.72	36.93	56.00	-19.07	QP
1.1220	16.94	9.72	26.66	46.00	-19.34	AVG
1.7217	27.06	9.67	36.73	56.00	-19.27	QP
1.7217	17.98	9.67	27.65	46.00	-18.35	AVG
4.6017	26.47	9.70	36.17	56.00	-19.83	QP
4.6017	12.31	9.70	22.01	46.00	-23.99	AVG
19.3579	26.56	9.95	36.51	60.00	-23.49	QP
19.3579	13.47	9.95	23.42	50.00	-26.58	AVG

Remark:
Factor = Insertion Loss + Cable Loss.

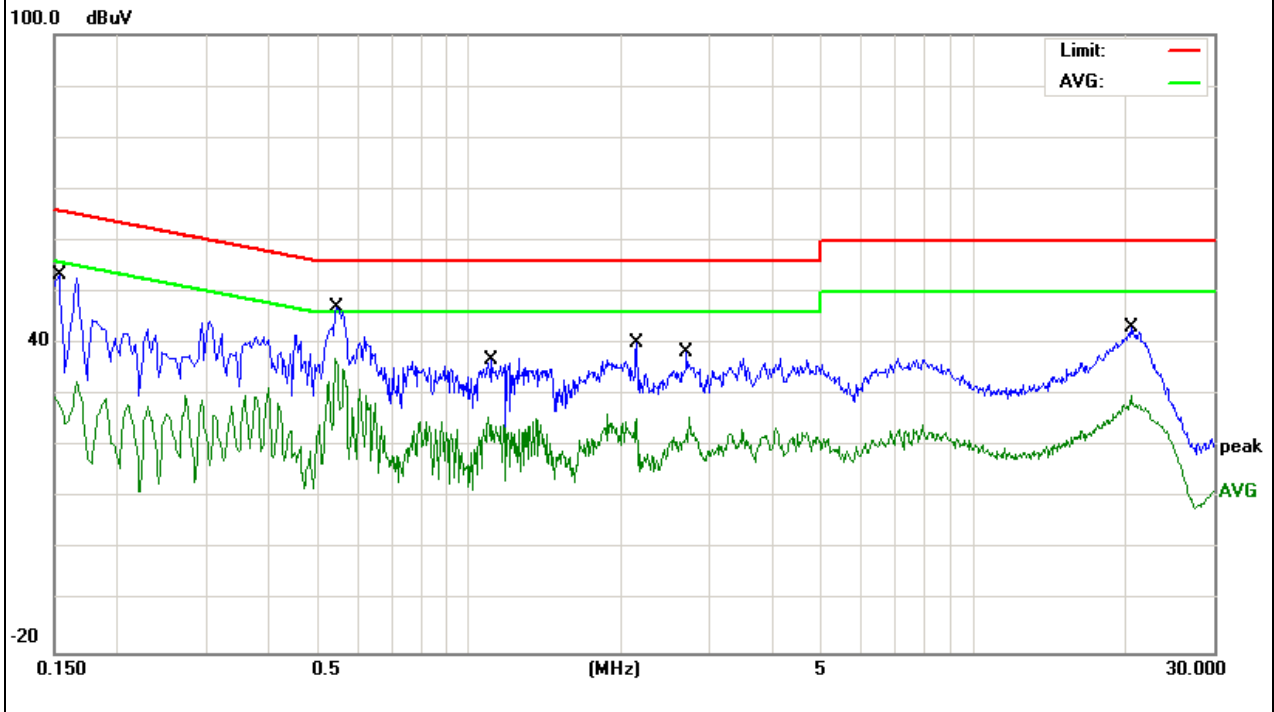


EUT :	ScreenBeam Mini2 Wireless Display Receiver	Model Name. :	SBWD60A
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-13
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC5V From Adapter AC120V/60Hz- Adapter 1		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
0.1539	43.72	9.63	53.35	65.78	-12.43	QP
0.1539	22.96	9.63	32.59	55.78	-23.19	AVG
0.5460	37.14	9.77	46.91	56.00	-9.09	QP
0.5460	27.29	9.77	37.06	46.00	-8.94	AVG
1.1100	27.22	9.72	36.94	56.00	-19.06	QP
1.1100	15.98	9.72	25.70	46.00	-20.30	AVG
2.1459	30.52	9.65	40.17	56.00	-15.83	QP
2.1459	15.70	9.65	25.35	46.00	-20.65	AVG
2.6979	28.83	9.66	38.49	56.00	-17.51	QP
2.6979	16.07	9.66	25.73	46.00	-20.27	AVG
20.5540	33.07	9.96	43.03	60.00	-16.97	QP
20.5540	19.91	9.96	29.87	50.00	-20.13	AVG

Remark:

Factor = Insertion Loss + Cable Loss.

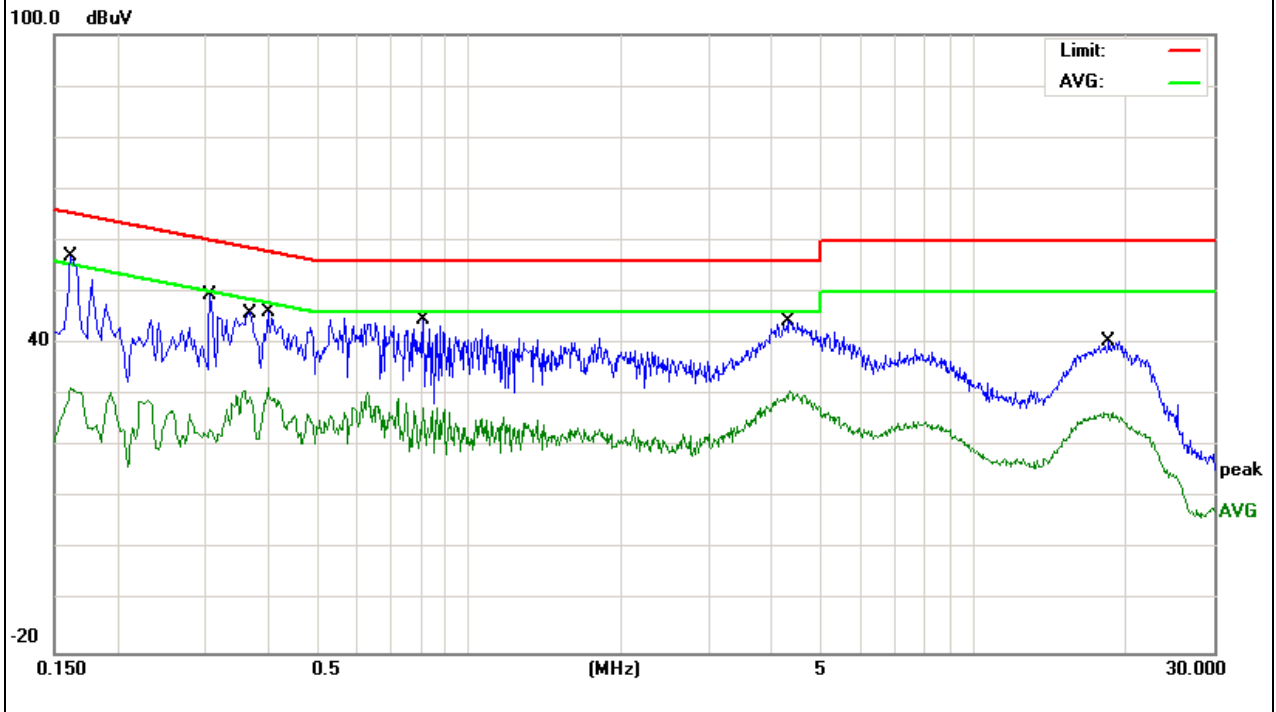


EUT :	ScreenBeam Mini2 Wireless Display Receiver	Model Name. :	SBWD60A
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-13
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From Adapter AC120V/60Hz- Adapter 2		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
0.1620	47.27	9.62	56.89	65.36	-8.47	QP
0.1620	21.71	9.62	31.33	55.36	-24.03	AVG
0.3060	39.75	9.72	49.47	60.08	-10.61	QP
0.3580	21.47	9.52	30.99	48.77	-17.78	AVG
0.3980	36.85	9.37	46.22	57.89	-11.67	QP
0.3980	22.01	9.37	31.38	47.89	-16.51	AVG
0.8100	34.94	9.77	44.71	56.00	-11.29	QP
0.8100	18.73	9.77	28.50	46.00	-17.50	AVG
4.3140	34.77	9.70	44.47	56.00	-11.53	QP
4.3140	21.04	9.70	30.74	46.00	-15.26	AVG
18.5379	30.58	9.92	40.50	60.00	-19.50	QP
18.5379	16.58	9.92	26.50	50.00	-23.50	AVG

Remark:

Factor = Insertion Loss + Cable Loss.

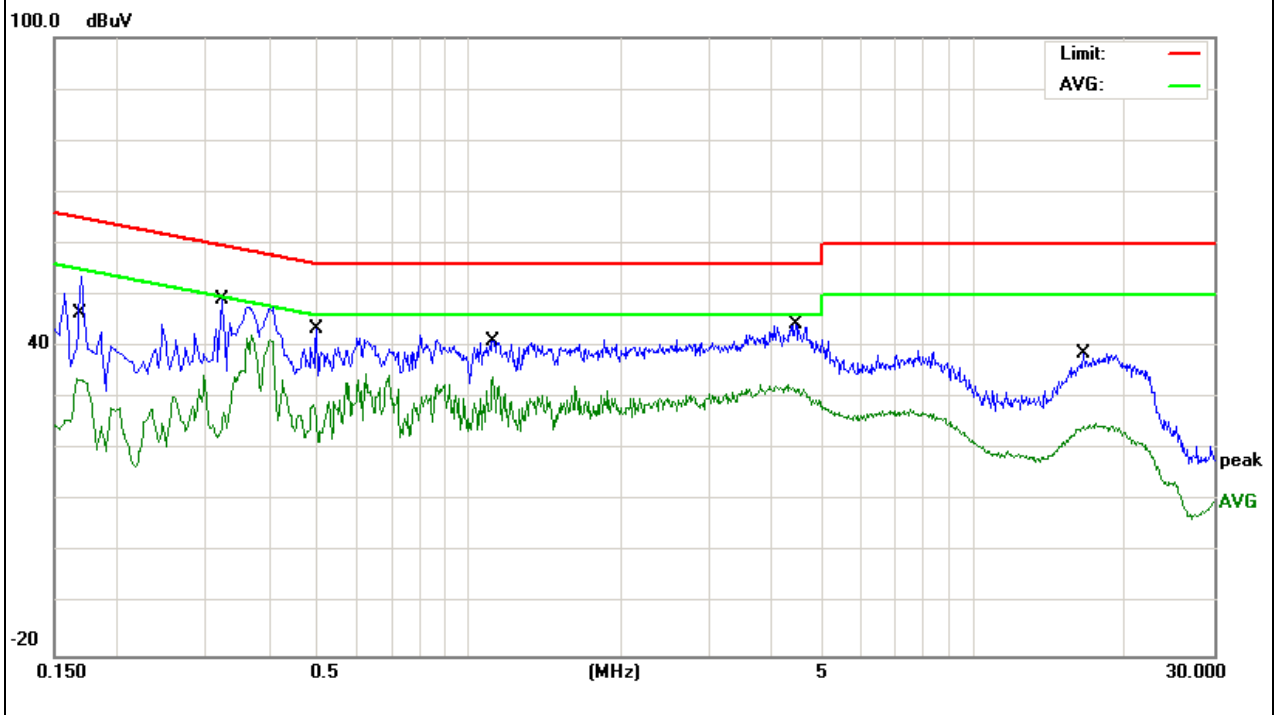


EUT :	ScreenBeam Mini2 Wireless Display Receiver	Model Name. :	SBWD60A
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-08-13
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC5V From Adapter AC120V/60Hz- Adapter 2		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
0.1660	43.90	9.60	53.50	65.15	-11.65	QP
0.1660	24.12	9.60	33.72	55.15	-21.43	AVG
0.3220	39.59	9.62	49.21	59.65	-10.44	QP
0.3220	32.68	9.62	42.30	49.65	-7.35	AVG
0.4979	33.89	9.68	43.57	56.03	-12.46	QP
0.4979	20.09	9.68	29.77	46.03	-16.26	AVG
1.1140	31.60	9.60	41.20	56.00	-14.80	QP
1.1140	24.49	9.60	34.09	46.00	-11.91	AVG
4.4419	34.97	9.51	44.48	56.00	-11.52	QP
4.4419	23.03	9.51	32.54	46.00	-13.46	AVG
16.4894	28.88	9.78	38.66	60.00	-21.34	QP
16.4894	15.49	9.78	25.27	50.00	-24.73	AVG

Remark:

Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height 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 peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for peak detection at frequency below 1GHz.

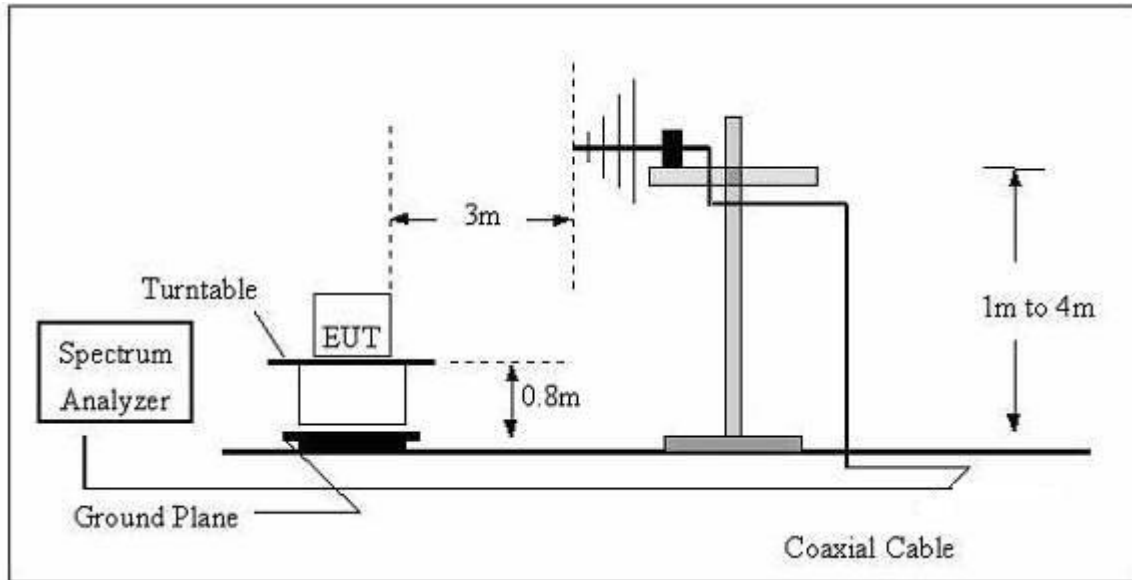
Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

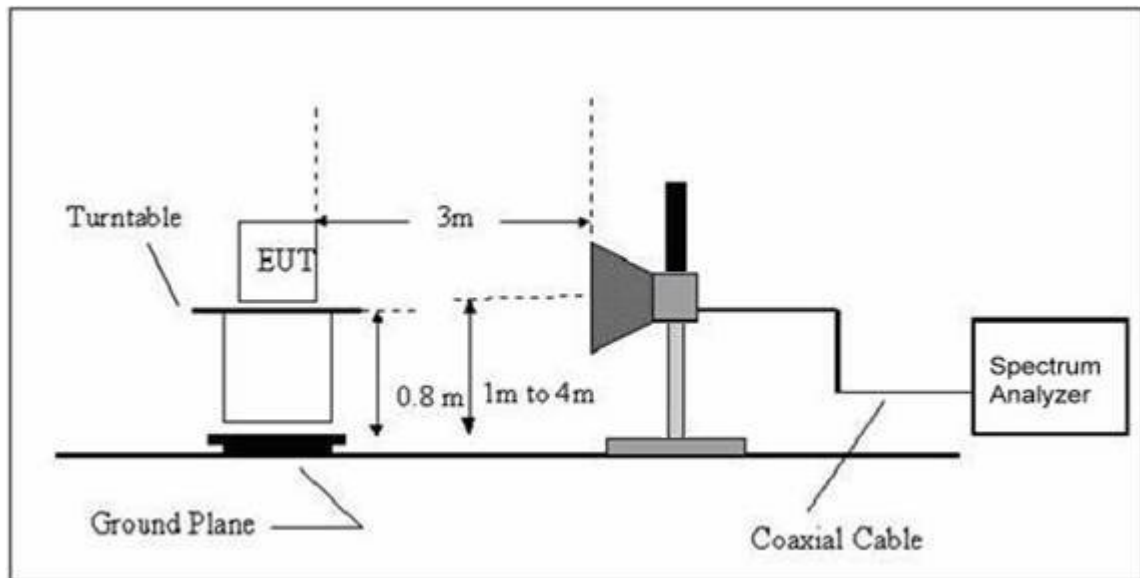
e. The spectrum analyzer system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

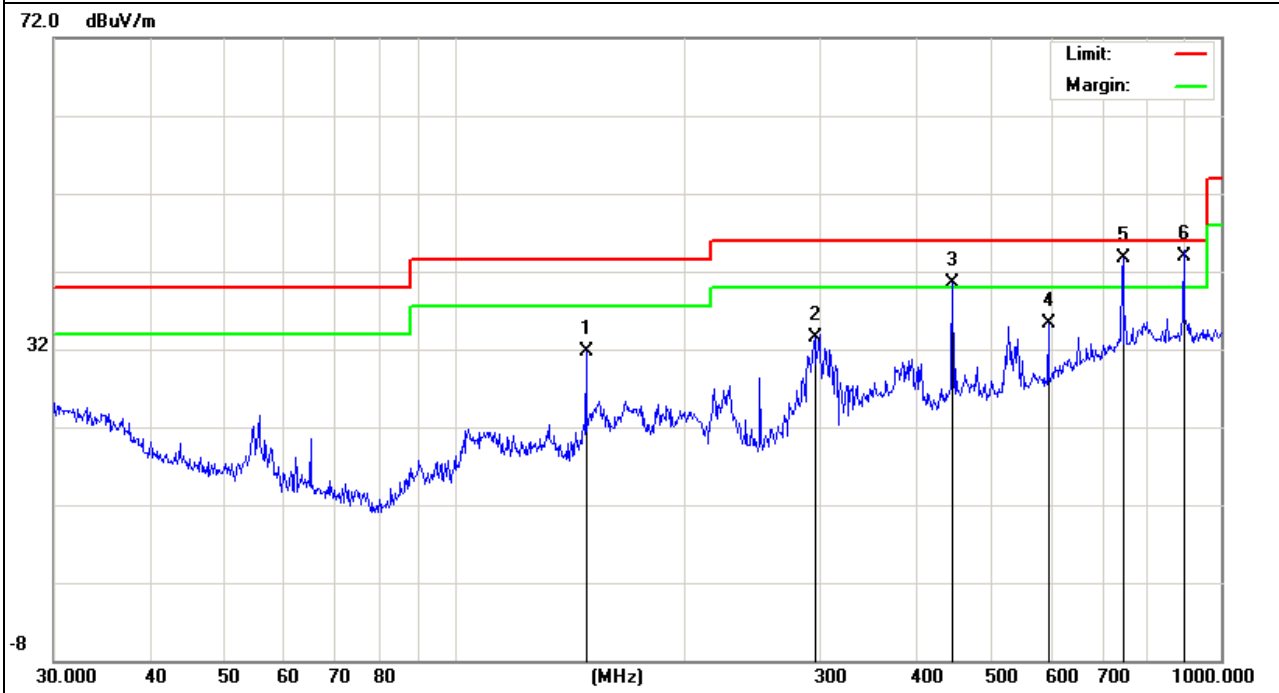
3.2.5 TEST RESULTS

EUT :	ScreenBeam Mini2 Wireless Display Receiver	Model Name :	SBWD60A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-08-13
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC5V From Adapter AC120V/60Hz- Adapter 2		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
148.4410	21.23	10.57	31.80	43.50	-11.70	QP
295.1469	19.31	14.10	33.41	46.00	-12.59	QP
446.4141	21.34	19.23	40.57	46.00	-5.43	QP
595.1326	13.05	22.31	35.36	46.00	-10.64	QP
744.8659	17.76	25.96	43.72	46.00	-2.28	QP
893.8567	16.97	27.03	44.00	46.00	-2.00	QP

Remark:

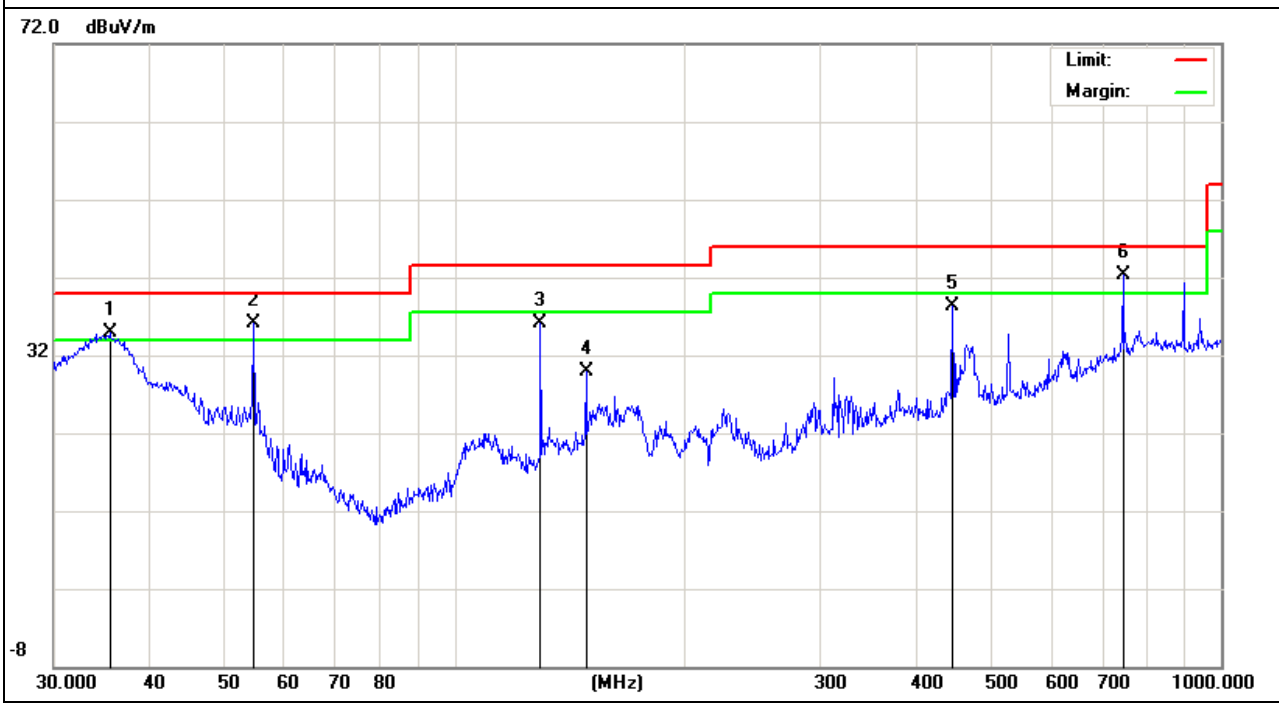
Factor = Antenna Factor + Cable Loss.



EUT :	ScreenBeam Mini2 Wireless Display Receiver	Model Name :	SBWD60A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-08-13
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC5V From Adapter AC120V/60Hz- Adapter 1		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
35.4992	18.46	16.37	34.83	40.00	-5.17	QP
54.6429	26.66	9.37	36.03	40.00	-3.97	QP
129.4677	24.22	11.90	36.12	43.50	-7.38	QP
148.4410	19.24	10.57	29.81	43.50	-13.69	QP
446.4141	19.07	19.23	38.30	46.00	-7.70	QP
744.8661	16.38	25.96	42.34	46.00	-3.66	QP

Remark:
Factor = Antenna Factor + Cable Loss.

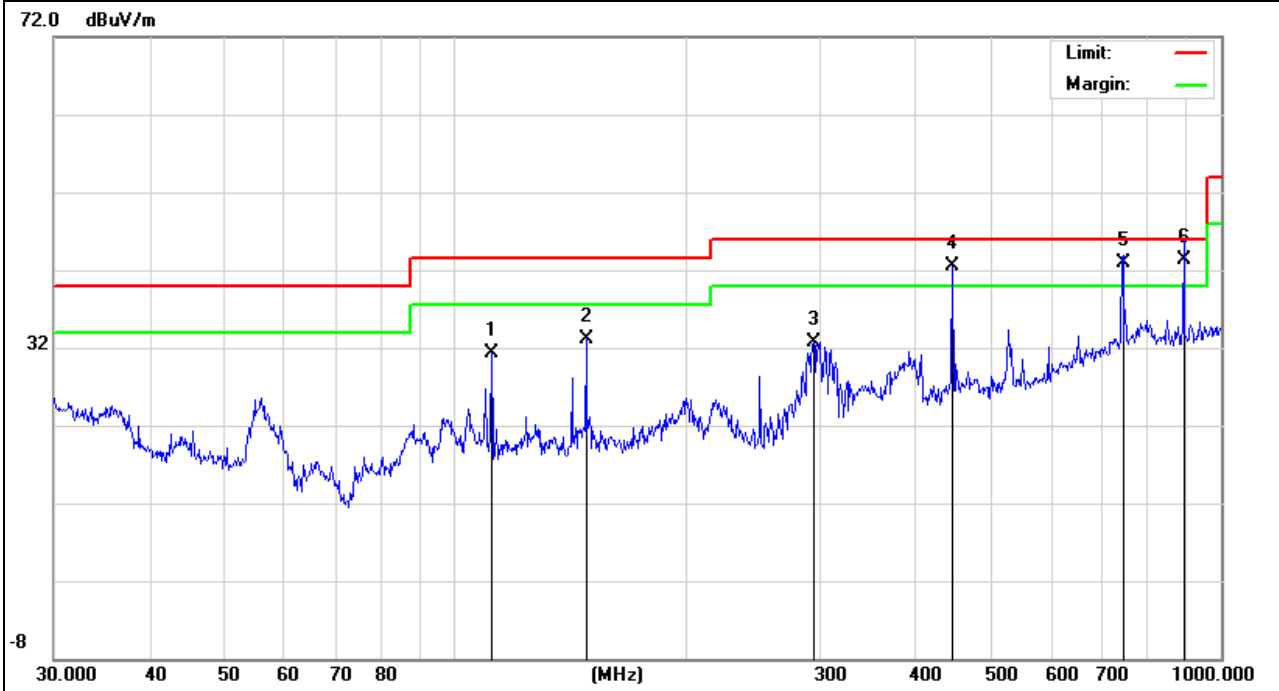


EUT :	ScreenBeam Mini2 Wireless Display Receiver	Model Name :	SBWD60A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-08-13
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC5V From Adapter AC120V/60Hz- Adapter 2		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
111.7377	20.96	10.32	31.28	43.50	-12.22	QP
148.4410	22.61	10.57	33.18	43.50	-10.32	QP
294.1136	18.68	14.08	32.76	46.00	-13.24	QP
446.4141	23.19	19.23	42.42	46.00	-3.58	QP
744.8661	16.97	25.96	42.93	46.00	-3.07	QP
893.8567	16.27	27.03	43.30	46.00	-2.70	QP

Remark:

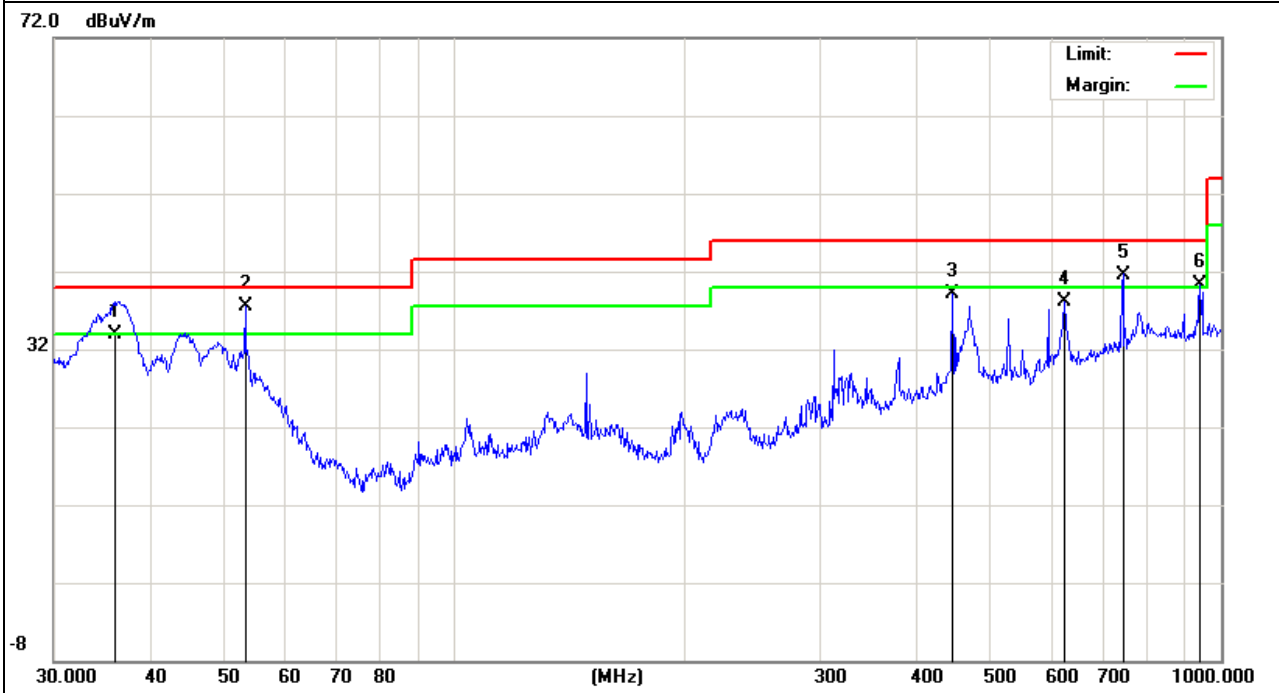
Factor = Antenna Factor + Cable Loss.



EUT :	ScreenBeam Mini2 Wireless Display Receiver	Model Name :	SBWD60A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-08-13
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC5V From Adapter AC120V/60Hz- Adapter 2		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
36.1272	17.93	15.97	33.90	40.00	-6.10	QP
53.3179	27.74	9.74	37.48	40.00	-2.52	QP
446.4141	19.86	19.23	39.09	46.00	-6.91	QP
625.0778	15.18	22.91	38.09	46.00	-7.91	QP
744.8660	15.64	25.96	41.60	46.00	-4.40	QP
938.8325	13.12	27.25	40.37	46.00	-5.63	QP

Remark:
Factor = Antenna Factor + Cable Loss.



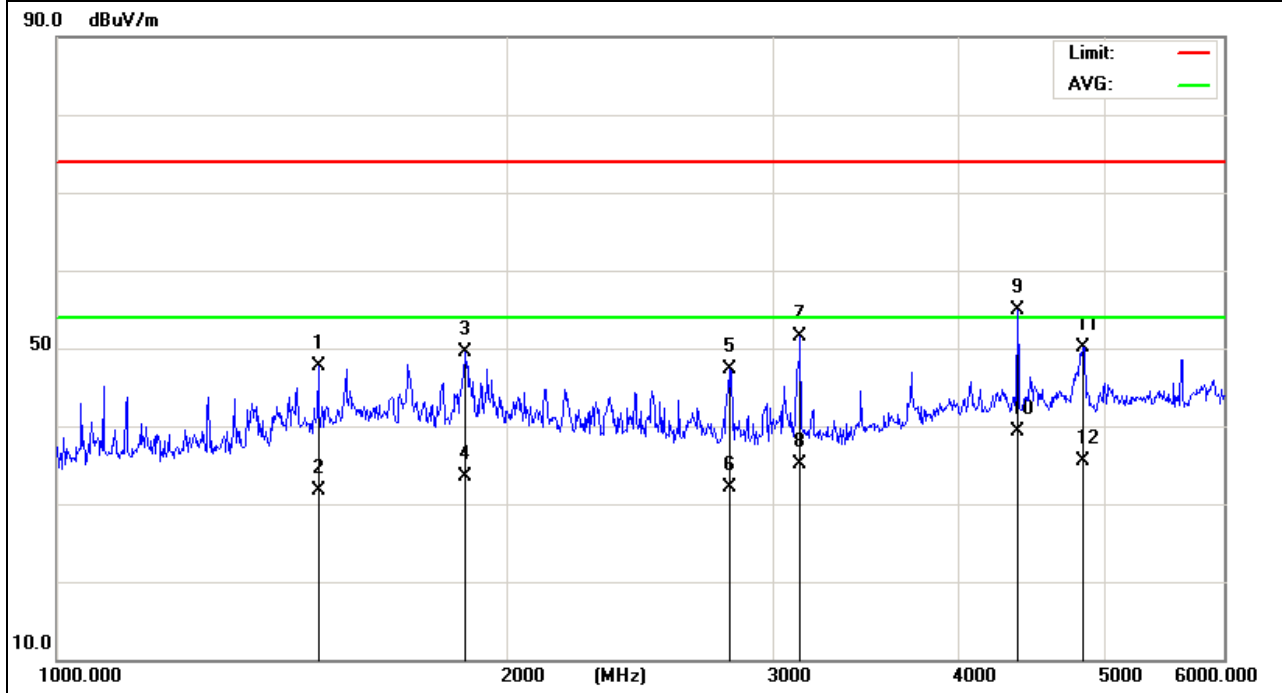
3.2.6 TEST RESULTS(Above 1GHz)

EUT :	ScreenBeam Mini2 Wireless Display Receiver	Model Name :	SBWD60A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-08-13
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V From AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
1493.8460	58.76	-11.03	47.73	74.00	-26.27	peak
1493.8460	42.68	-11.03	31.65	54.00	-22.35	AVG
1872.2030	58.85	-9.44	49.41	74.00	-24.59	peak
1872.2030	43.00	-9.44	33.56	54.00	-20.44	AVG
2806.8240	53.60	-6.26	47.34	74.00	-26.66	peak
2806.8240	38.41	-6.26	32.15	54.00	-21.85	AVG
3130.9950	57.34	-5.87	51.47	74.00	-22.53	peak
3130.9950	41.03	-5.87	35.16	54.00	-18.84	AVG
4369.3670	55.08	-0.20	54.88	74.00	-19.12	peak
4369.3670	39.46	-0.20	39.26	54.00	-14.74	AVG
4830.5320	48.26	1.87	50.13	74.00	-23.87	peak
4830.5320	33.55	1.87	35.42	54.00	-18.58	AVG

Remark:

1. When PK value is lower than the Average value limit, average not record.
2. Factor = Antenna Factor + Cable Loss - Amplifier.

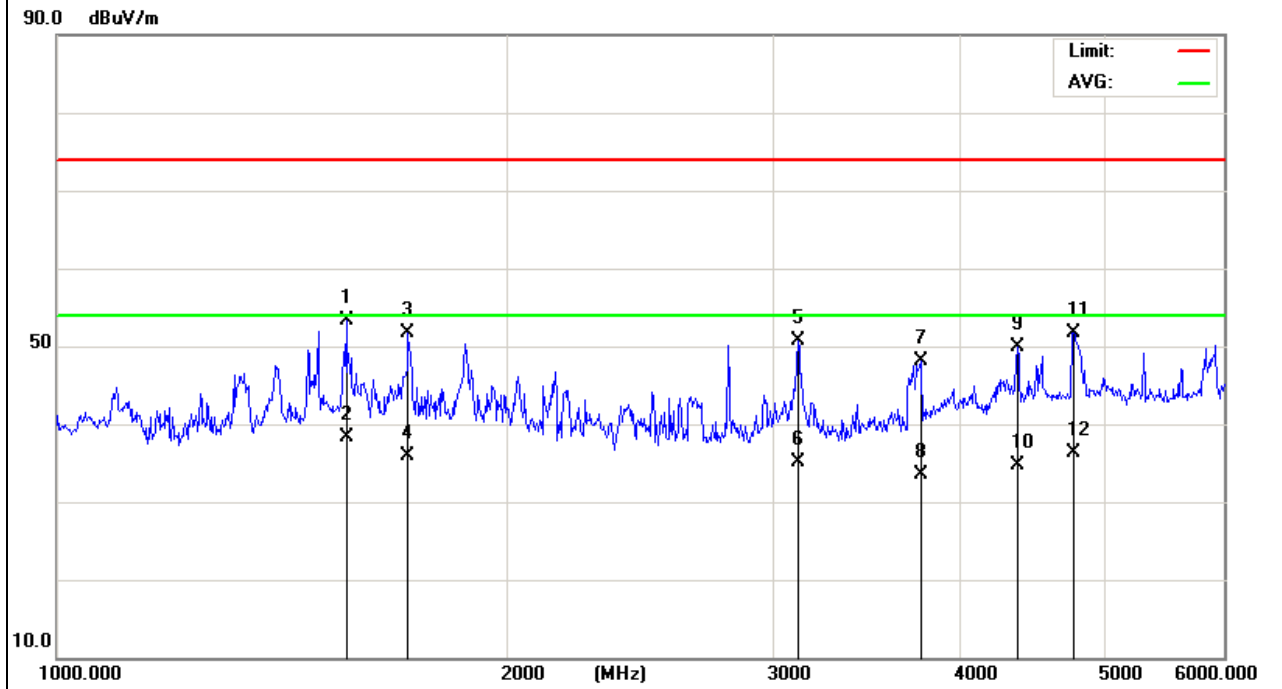


EUT :	ScreenBeam Mini2 Wireless Display Receiver	Model Name :	SBWD60A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-08-13
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V From AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
1559.4860	64.30	-10.96	53.34	74.00	-20.66	peak
1559.4860	49.17	-10.96	38.21	54.00	-15.79	AVG
1714.8400	61.92	-10.20	51.72	74.00	-22.28	peak
1714.8400	46.14	-10.20	35.94	54.00	-18.06	AVG
3119.7950	56.54	-5.90	50.64	74.00	-23.36	peak
3119.7950	41.02	-5.90	35.12	54.00	-18.88	AVG
3765.5800	51.15	-3.13	48.02	74.00	-25.98	peak
3765.5800	36.69	-3.13	33.56	54.00	-20.44	AVG
4369.3670	50.11	-0.20	49.91	74.00	-24.09	peak
4369.3670	34.82	-0.20	34.62	54.00	-19.38	AVG
4761.7840	50.54	1.15	51.69	74.00	-22.31	peak
4761.7840	35.08	1.15	36.23	54.00	-17.77	AVG

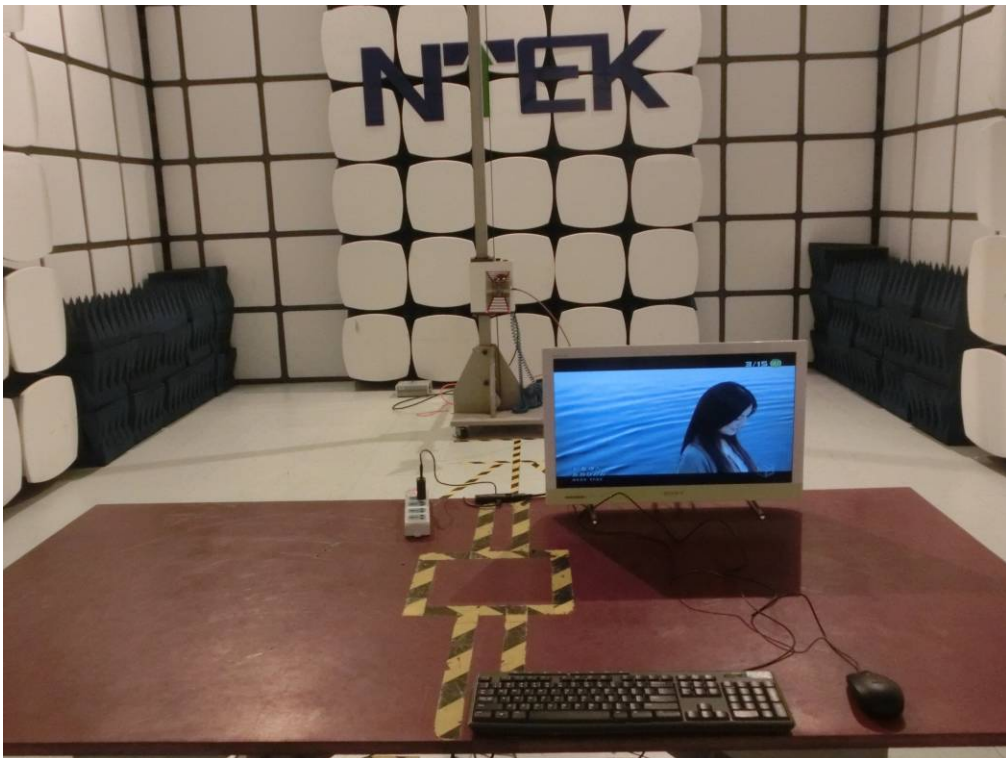
Remark:

1. When PK value is lower than the Average value limit, average not record.
2. Factor = Antenna Factor + Cable Loss - Amplifier.



4. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos

