

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT**

OF

Portal of power

Model No.: 0000726

FCC ID: XLU0000726

Trademark: Activision

Report No.: ED160617004E

Issue Date: July 05, 2016

Prepared for

**Activision Publishing, Inc.
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Prepared by

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EMTEK(DONGGUAN) CO., LTD.**

VERIFICATION OF COMPLIANCE

Applicant:	Activision Publishing, Inc 3100 Ocean Park Blvd., Santa Monica, CA90405, USA
Manufacturer:	Fooway Electronics Plastics Metals Factory Bubugao Road, Jiangbei, Wusha, Changan Town, Dongguan City, Guangdong Province, China
Product Description:	Portal of power
Model Number:	0000726
Trademark:	Activision

We hereby certify that:

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.225(2016).

Date of Test : June 20, 2016 to June 27, 2016

Yolanda Liang

Prepared by : Yolanda Liang/Editor

Alan He

Reviewer : Alan He/Supervisor

Sam Lv

Approved & Authorized Signer : Sam Lv/Manager

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	ED160617004E

Table of Contents

1	GENERAL INFORMATION.....	5
1.1	PRODUCT DESCRIPTION	5
1.2	RELATED SUBMITTAL(S) / GRANT(S)	5
1.3	TEST METHODOLOGY	6
1.4	SPECIAL ACCESSORIES	6
1.5	EQUIPMENT MODIFICATIONS	6
1.6	TEST FACILITY.....	6
2	SYSTEM TEST CONFIGURATION	7
2.1	EUT CONFIGURATION.....	7
2.2	EUT EXERCISE	7
2.3	TEST PROCEDURE.....	7
2.4	CONFIGURATION OF TESTED SYSTEM.....	8
3	SUMMARY OF TEST RESULTS	9
4	CONDUCTED EMISSIONS TEST	11
4.1	MEASUREMENT PROCEDURE	11
4.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	11
4.3	MEASUREMENT EQUIPMENT USED	11
4.4	CONDUCTED EMISSION LIMIT	11
4.5	MEASUREMENT RESULT	11
4.6	CONDUCTED MEASUREMENT PHOTOS:.....	14
5	RADIATED EMISSION TEST	15
5.1	MEASUREMENT PROCEDURE	15
5.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	15
5.3	MEASUREMENT EQUIPMENT USED	16
5.4	RADIATED EMISSION LIMIT	16
5.5	MEASUREMENT RESULT	18
5.6	RADIATED MEASUREMENT PHOTOS:.....	20
6	FREQUENCY STABILITY MEASUREMENT	21
6.1	FREQUENCY STABILITY LIMITS	21
6.2	MEASUREMENT INSTRUMENTS LIST	21
6.3	TEST PROCEDURE	21
6.4	EUT OPERATING CONDITIONS	21
6.5	TEST RESULTS.....	22
7	EMISSION BANDWIDTH	31
7.1	EMISSION BANDWIDTH LIMIT	31
7.2	TEST INSTRUMENTS	31
7.3	TEST PROCEDURE	31
7.4	TEST SETUP.....	31
7.5	TEST RESULT.....	31
8	ANTENNA REQUIREMENT.....	33
8.1	RESULT	33

APPENDIX (Photos of EUT) (5 pages)

1 General Information

1.1 Product Description

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 13.56MHz
- B). Modulation: ASK
- C). Number of Channel: 1 channel
- D). Power Supply: DC 5V From PS3 Input AC 120V/60Hz
- E). Antenna Type: Internal Loop antenna
- F). Antenna Gain: 0 dBi
- G). Hardware Version: V01
- H). Software Version: V25.08

Note: for a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: XLU0000726 filing to comply with Section 15.225 of the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10-2013. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

There is a USB cable with two ferrite cores in this submission.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Site Description

EMC Lab. :

Registered on FCC, June 18, 2014
The Certificate Number is 247565

Registered on Industry Canada, February 19, 2014
The Certificate Number is 9444A.

Name of Firm

: EMTEK(DONGGUAN) CO., LTD.

Site Location

: No.281, Guantai Road, Nancheng District,
Dongguan, Guangdong, China

2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter(EUT) was tested according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

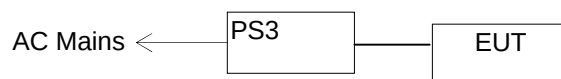


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
1	Portal of power	Activision	0000726	7293B-0000726	N/A	EUT
2	PS3	Sony	N/A	N/A	N/A	Support Equipment
3	Golden Queen	Activision	87798888	N/A	N/A	Support Equipment

Note:

- (1) Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment.

3 Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	AC Power Conducted Emission	Complied
§15.225(a)(b)(c), (d), §15.209	Radiated Emission	Complied
§15.225(e)	Frequency Stability	Complied
§15.203	Antenna Application	Complied

4 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Power Density	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

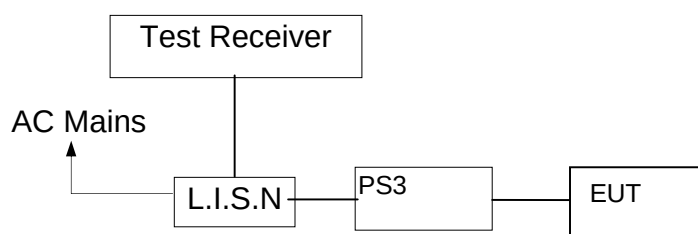
Remark: The coverage Factor ($k=2$), and measurement Uncertainty for a level of Confidence of 95%

5 Conducted Emissions Test

5.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used

Conducted Emission Test Site						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Characteristics	Last Cal.	Due date
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	9kHz~3GHz	06/15/2016	06/14/2017
Artificial Network	Schwarzbeck	8126D	8126D-211	9KHz-300MHz	06/15/2016	06/14/2017
RF Switching Unit	CDS	RSU-M2	38401	9KHz-300MHz	06/15/2016	06/14/2017
Coaxial Cable	CDS	79254	46107086	9kHz~3GHz	06/15/2016	06/14/2017

5.4 Conducted Emission Limit

Conducted Emission Frequency(MHz)

0.15-0.5

0.5-5.0

5.0-30.0

Quasi-peak

66-56

56

60

Average

56-46

46

50

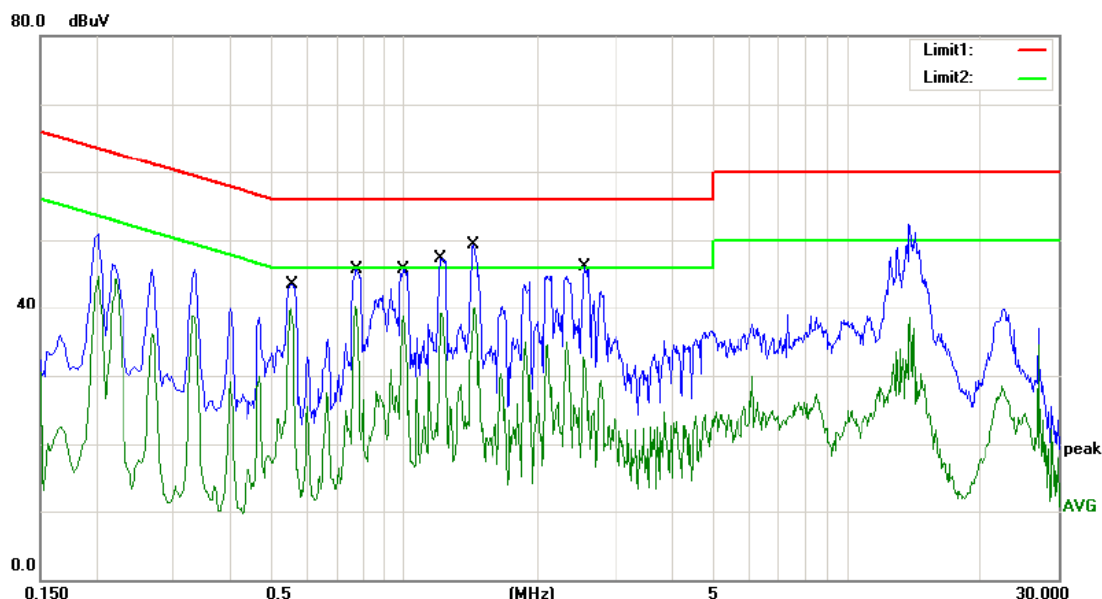
Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.5 Measurement Result

Pass.

Please refer to the following.



Site site #1

Phase: **L1**

Temperature: 24

Limit: (CE)FCC Part 15B_QP

Power: DC 5V from PS3
Input(AC:120V/60Hz)

Humidity: 55 %

Mode: TX

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5580	33.57	10.01	43.58	56.00	-12.42	QP	
2		0.5580	29.80	10.01	39.81	46.00	-6.19	AVG	
3		0.7780	35.73	10.01	45.74	56.00	-10.26	QP	
4	*	0.7780	30.29	10.01	40.30	46.00	-5.70	AVG	
5		0.9980	35.65	10.01	45.66	56.00	-10.34	QP	
6		0.9980	28.65	10.01	38.66	46.00	-7.34	AVG	
7		1.2020	37.28	10.01	47.29	56.00	-8.71	QP	
8		1.2020	29.16	10.01	39.17	46.00	-6.83	AVG	
9		1.4220	39.19	10.02	49.21	56.00	-6.79	QP	
10		1.4220	30.00	10.02	40.02	46.00	-5.98	AVG	
11		2.5420	36.04	10.02	46.06	56.00	-9.94	QP	
12		2.5420	22.59	10.02	32.61	46.00	-13.39	AVG	

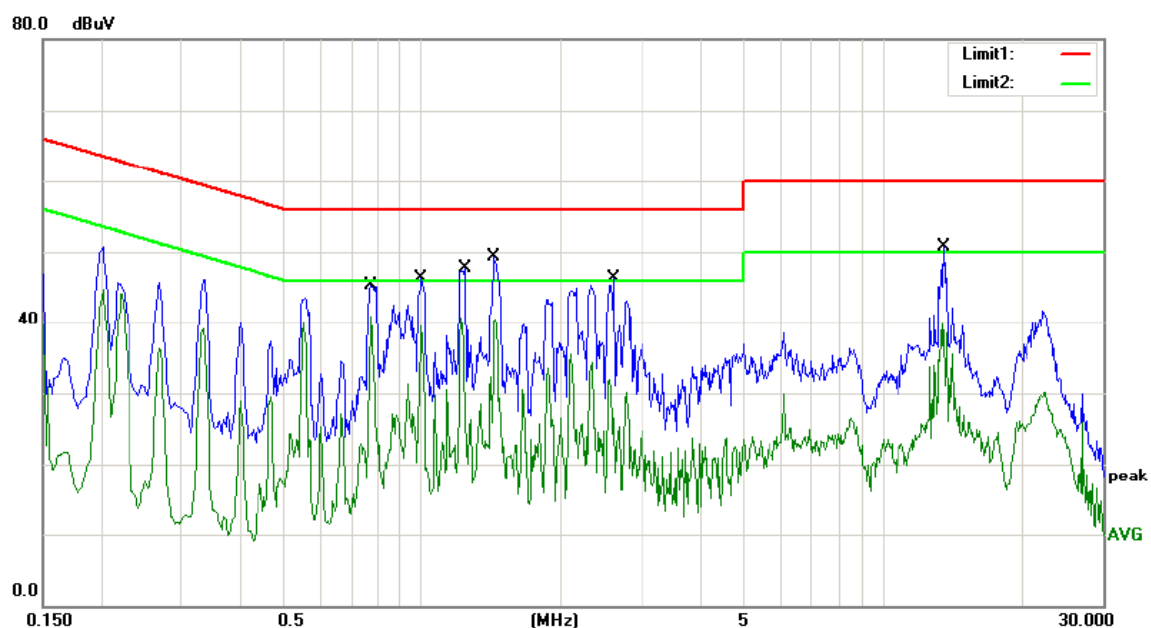
*:Maximum data

x:Over limit

!:over margin

Comment: Factor build in receiver.

Operator:



Site site #1

Phase: **N**

Temperature: 24

Limit: (CE)FCC Part 15B_QP

Power: DC 5V from PS3
Input(AC120V/60Hz)

Humidity: 55 %

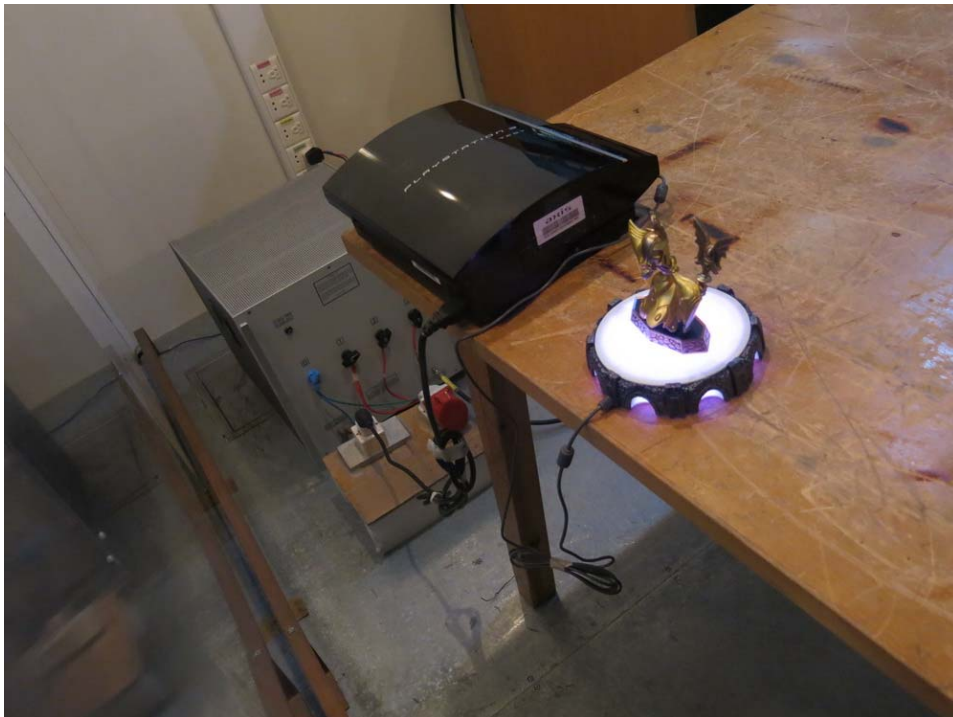
Mode: TX

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.7740	35.36	10.01	45.37	56.00	-10.63	QP	
2	*	0.7740	30.90	10.01	40.91	46.00	-5.09	AVG	
3		0.9980	36.21	10.01	46.22	56.00	-9.78	QP	
4		0.9980	29.41	10.01	39.42	46.00	-6.58	AVG	
5		1.2420	37.64	10.01	47.65	56.00	-8.35	QP	
6		1.2420	30.66	10.01	40.67	46.00	-5.33	AVG	
7		1.4220	39.36	10.02	49.38	56.00	-6.62	QP	
8		1.4220	30.53	10.02	40.55	46.00	-5.45	AVG	
9		2.6020	36.20	10.02	46.22	56.00	-9.78	QP	
10		2.6020	21.83	10.02	31.85	46.00	-14.15	AVG	
11		13.5660	40.65	10.09	50.74	60.00	-9.26	QP	
12		13.5660	34.26	10.09	44.35	50.00	-5.65	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

5.6 Conducted Measurement Photos:



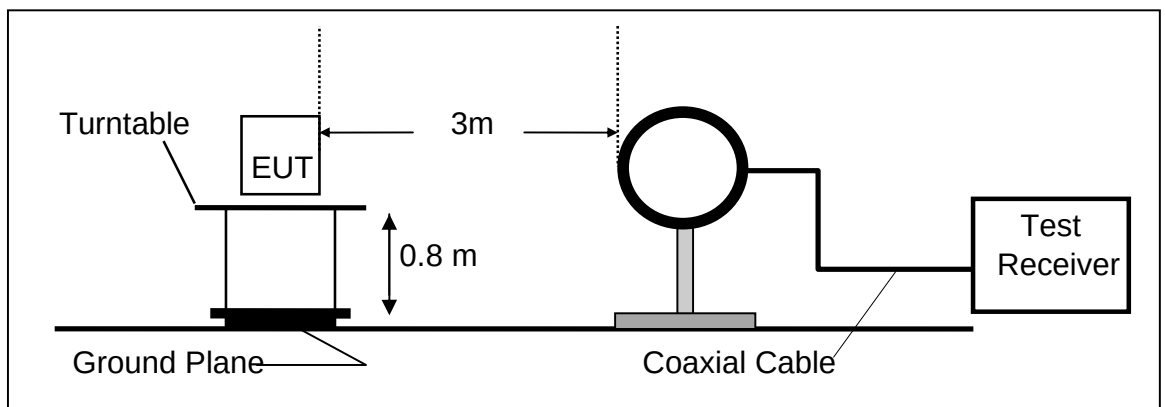
6 Radiated Emission Test

6.1 Measurement Procedure

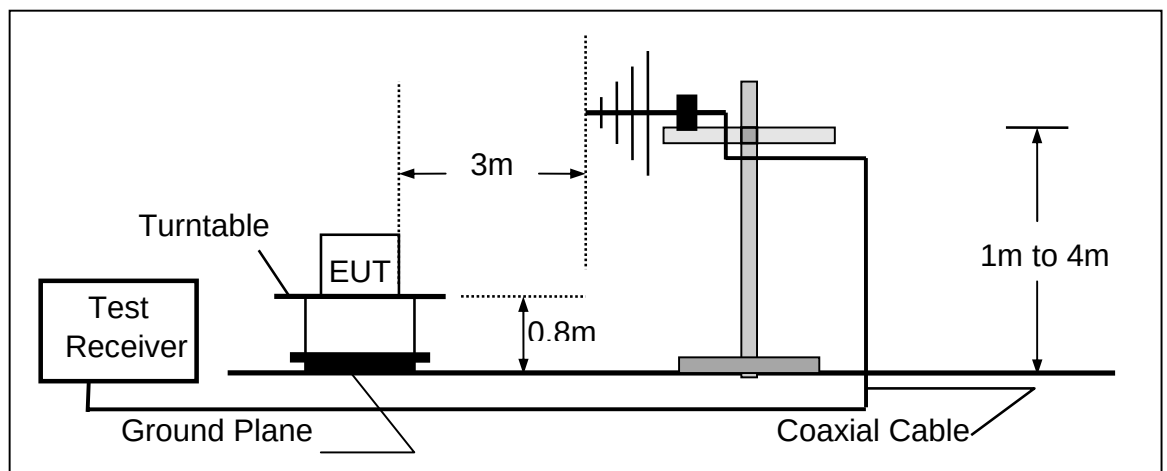
1. The EUT was placed on a turntable which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



6.3 Measurement Equipment Used

Item	Equipment	Manufacturer	Model No.	Serial No.	Characteristics	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI	1166.5950.03	9KHz-3GHz	06/15/2016	1 Year
2.	Loop Antenna	Schwarzbeck	FMZB 1519	012	9 KHz -30MHz	12/29/2015	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	000141	25MHz-2GHz	06/15/2016	1 Year
4.	Power Amplifier	HP	8447F	OPT H64	9 KHz -1300MHz	06/15/2016	1 Year
5.	Color Monitor	SUNSPO	SP-140A	N/A	--	06/15/2016	1 Year
6.	Single Line Filter	JIANLI	XL-3	N/A	--	06/15/2016	1 Year
7.	Single Phase Power Line Filter	JIANLI	DL-2X100B	N/A	--	06/15/2016	1 Year
8.	3 Phase Power Line Filter	JIANLI	DL-4X100B	N/A	--	06/15/2016	1 Year
9.	DC Power Filter	JIANLI	DL-2X50B	N/A	--	06/15/2016	1 Year
10.	Cable	Schwarzbeck	PLF-100	549489	9KHz-3GHz	06/15/2016	1 Year
11.	Cable	Rosenberger	CIL02	A0783566	9KHz-3GHz	06/15/2016	1 Year
12.	Cable	Rosenberger	RG 233/U	525178	9KHz-3GHz	06/15/2016	1 Year

6.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency at 3m Measurement Distance	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

FCC Part 15.225(a)/(b)/(c)				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
13.110 – 13.410	106	30 m	106*100	80.5
13.410 – 13.553	334	30 m	334*100	90.5
13.553 – 13.567	15,848	30 m	15,848*100	124
13.567 – 13.710	334	30 m	334*100	90.5
13.710 – 14.010	106	30 m	106*100	80.5

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

Remark 1. Emission level in dBuV/m=20 log (uV/m)

- :
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

6.5 Measurement Result

Operation Mode: TX Mode Test Date : June 25, 2016
Frequency Range: 9kHz~30MHz Temperature : 28℃
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By: KYO

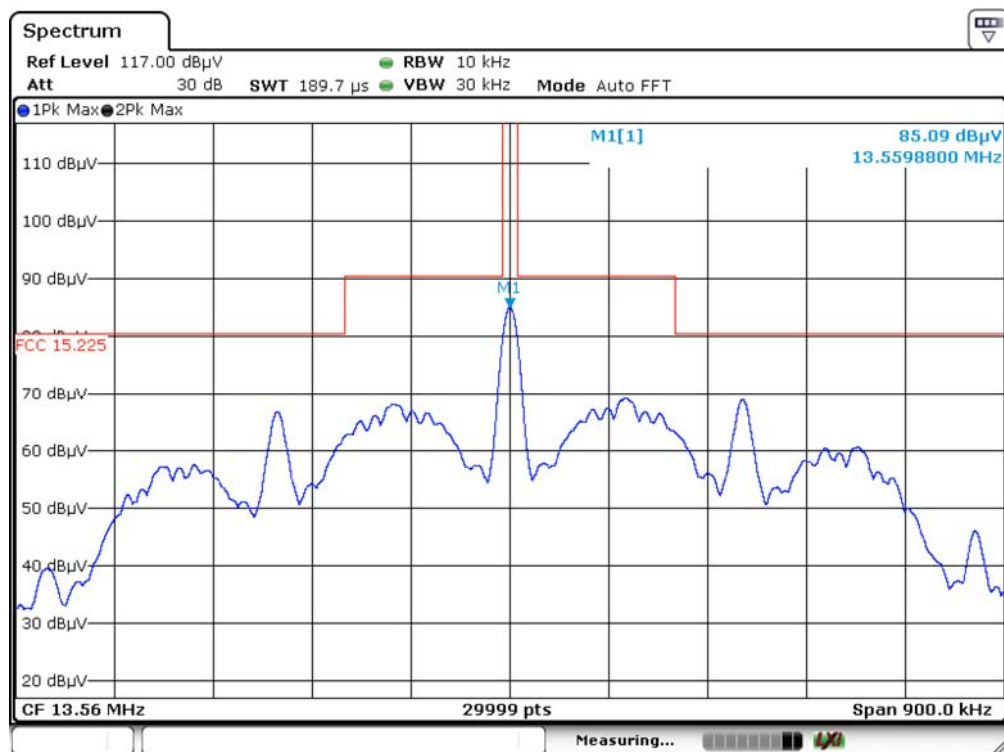
Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
8.52	V	33.10	69.54	-36.44	QP
12.32	V	31.22	69.54	-38.32	QP
14.55	V	35.53	69.54	-34.01	QP
17.12	V	34.22	69.54	-35.32	QP
21.76	V	36.89	69.54	-32.65	QP
28.47	V	37.43	69.54	-32.11	QP
6.17	H	31.48	69.54	-38.06	QP
11.78	H	32.62	69.54	-36.92	QP
15.22	H	36.71	69.54	-32.83	QP
20.66	H	37.82	69.54	-31.72	QP
25.34	H	34.08	69.54	-35.46	QP
27.21	H	36.19	69.54	-33.35	QP

Operation Mode: TX Mode Test Date : June 25, 2016
Frequency Range: 30~1000MHz Temperature : 28℃
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By: KYO

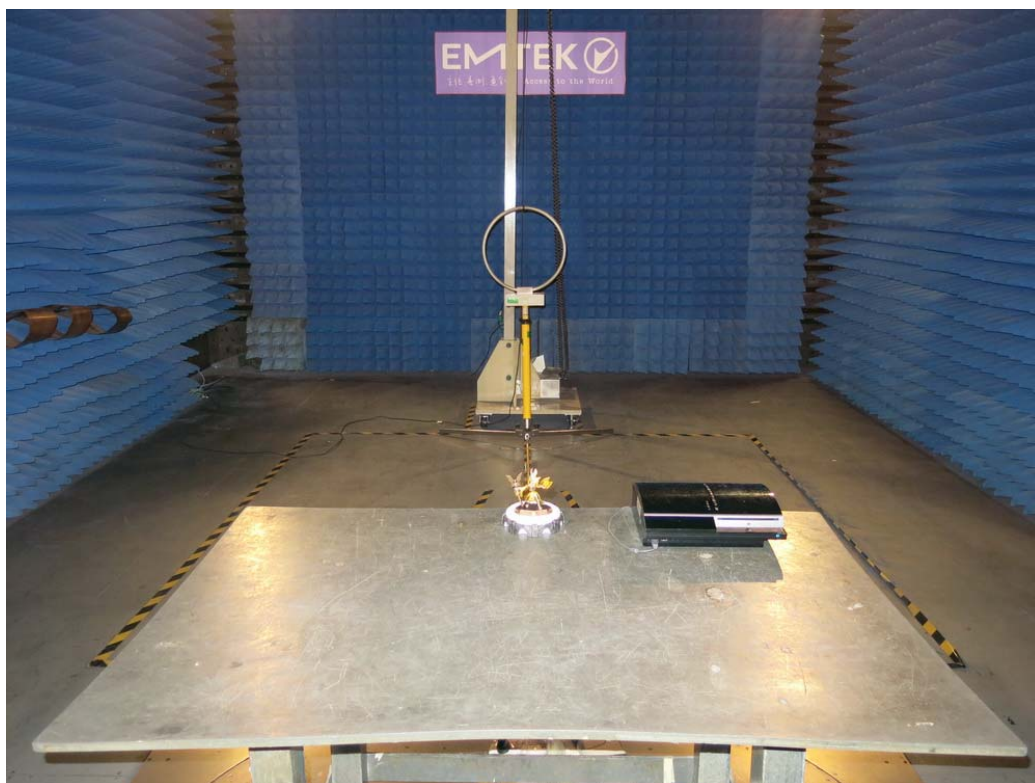
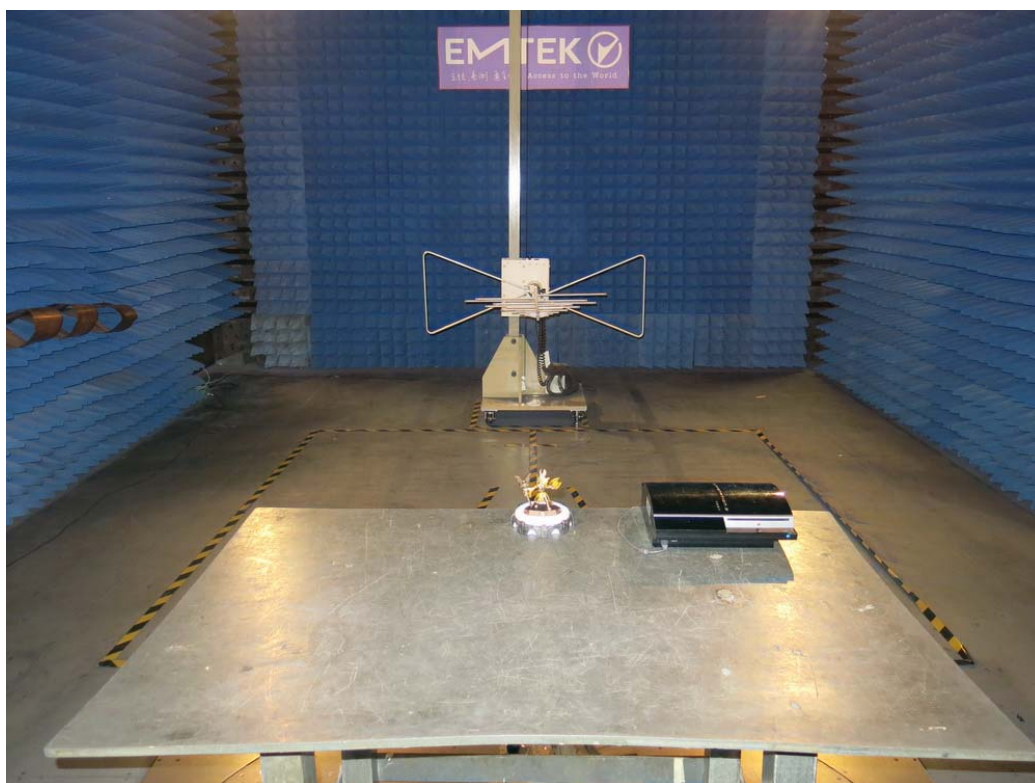
Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
30.00	V	31.91	40.00	-8.09	QP
35.82	V	33.84	40.00	-6.16	QP
67.83	V	37.59	40.00	-12.41	QP
131.85	V	32.70	43.50	-10.80	QP
161.92	V	37.70	43.50	-5.80	QP
190.05	V	35.08	43.50	-8.42	QP
30.00	H	24.80	40.00	-15.20	QP
47.46	H	26.38	40.00	-13.62	QP
131.85	H	34.99	43.50	-8.51	QP
143.49	H	34.89	43.50	-8.61	QP
162.04	H	34.55	43.50	-8.95	QP
190.05	H	30.83	43.50	-12.67	QP

Operation Mode: TX Mode
Frequency Range: 13.560 MHz
Test Result: PASS
Measured Distance: 3m

Test Date : June 25, 2016
Temperature : 28°C
Humidity : 65 %
Test By: KYO



6.6 Radiated Measurement Photos:



7 FREQUENCY STABILITY MEASUREMENT

7.1 FREQUENCY STABILITY LIMITS

FCC Part 15.225(e)

the frequency tolerance of the carrier signal shall be maintained within +/-0.01% of the operating frequency over a temperature variation of -20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

7.2 MEASUREMENT INSTRUMENTS LIST

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Characteristics	LAST CAL.	CAL DUE.
Spectrum Analyzer	Rohde & Schwarz	FSV30	1321.3008K	10Hz-30GHz	06/15/2016	06/14/2017
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	06/15/2016	06/14/2017
Antenna Connector	ARTHUR-YANG	2244-N1TG1	N/A	10Hz-30GHz	06/15/2016	06/14/2017

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

7.3 TEST PROCEDURE

- The equipment under test was connected to an external AC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. After the temperature stabilized for approximately 20 minutes, the frequency of the output signal was recorded from the counter.
- At room temperature (25±5°C), an external variable DC power supply was connected to the EUT. The frequency of the transmitter was measured for 115%, 100% and 85% of the nominal operating input voltage.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

7.4 EUT OPERATING CONDITIONS

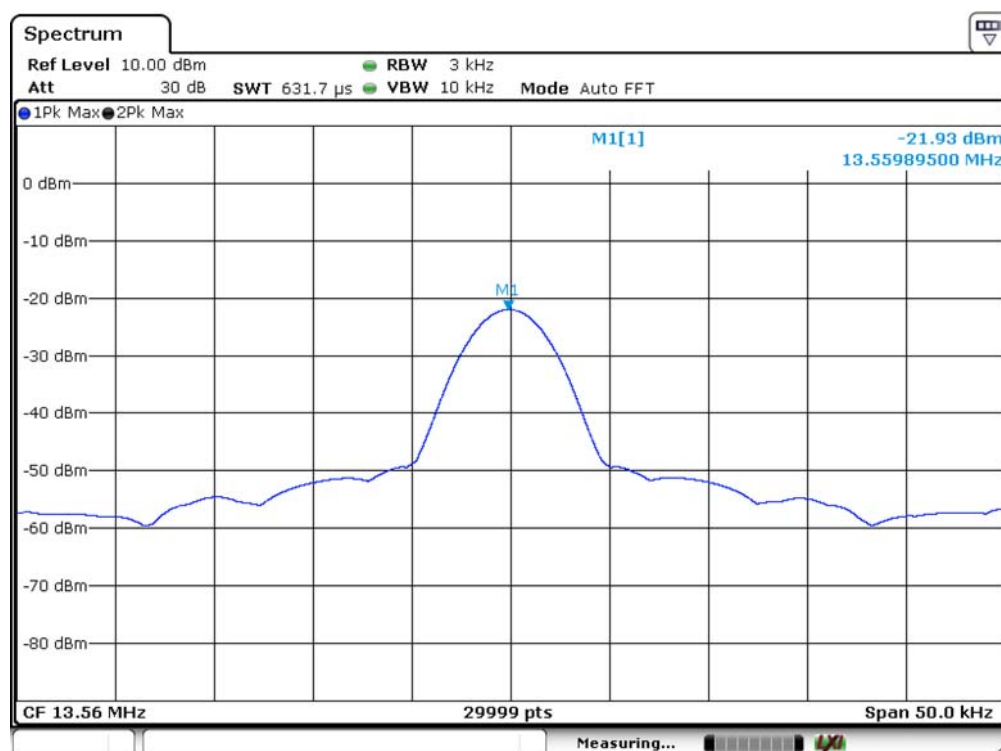
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

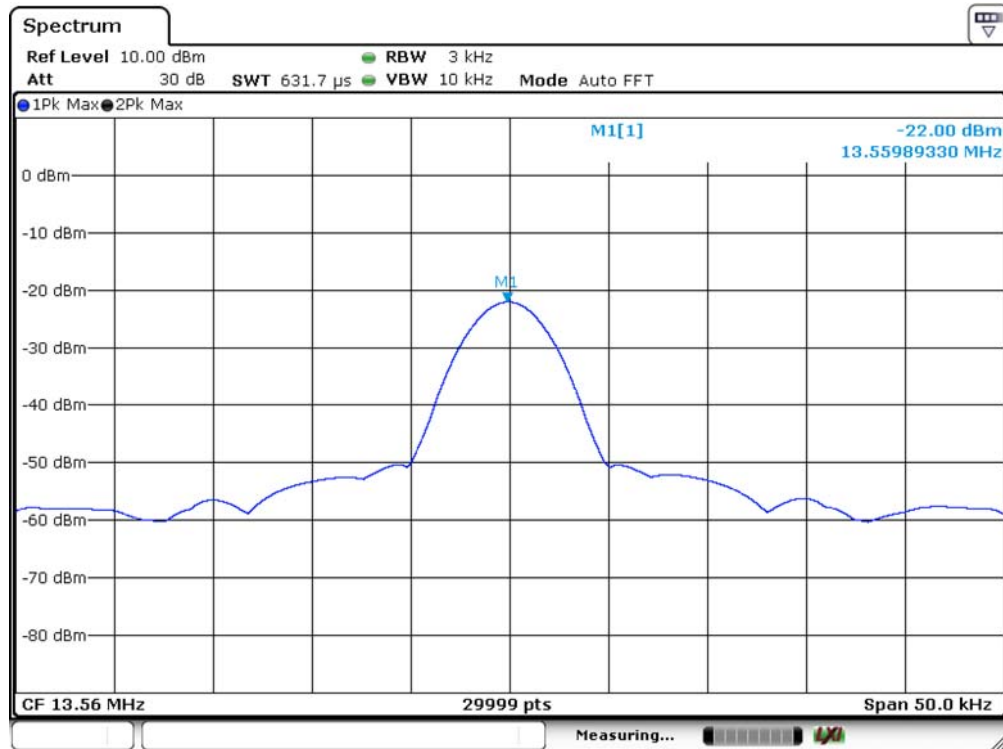
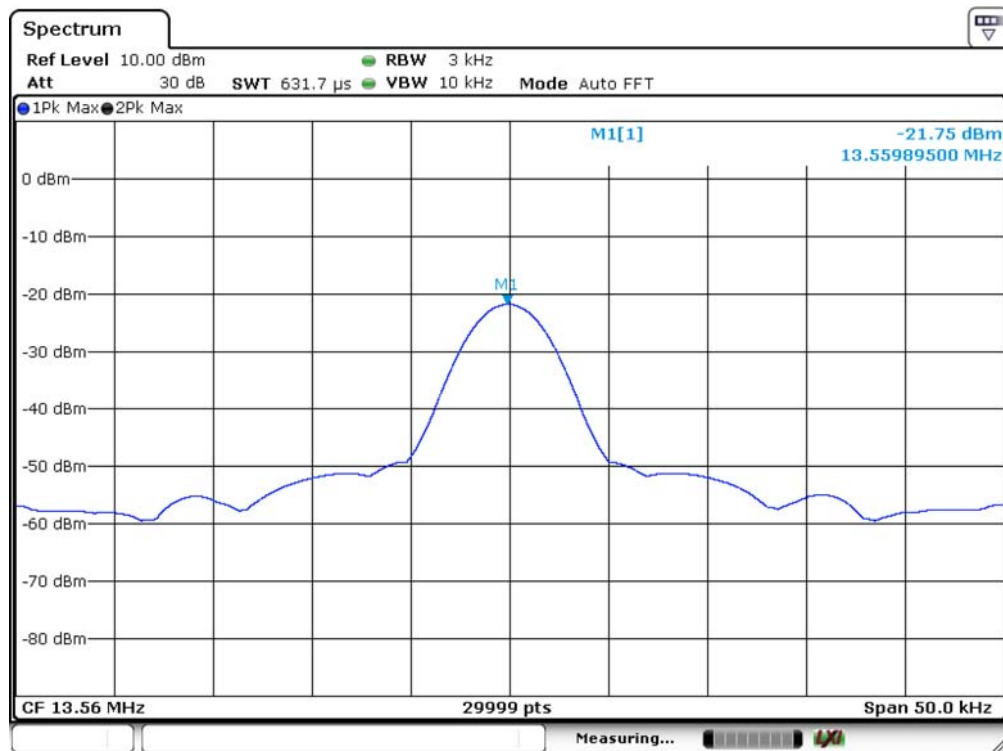
7.5 TEST RESULTS

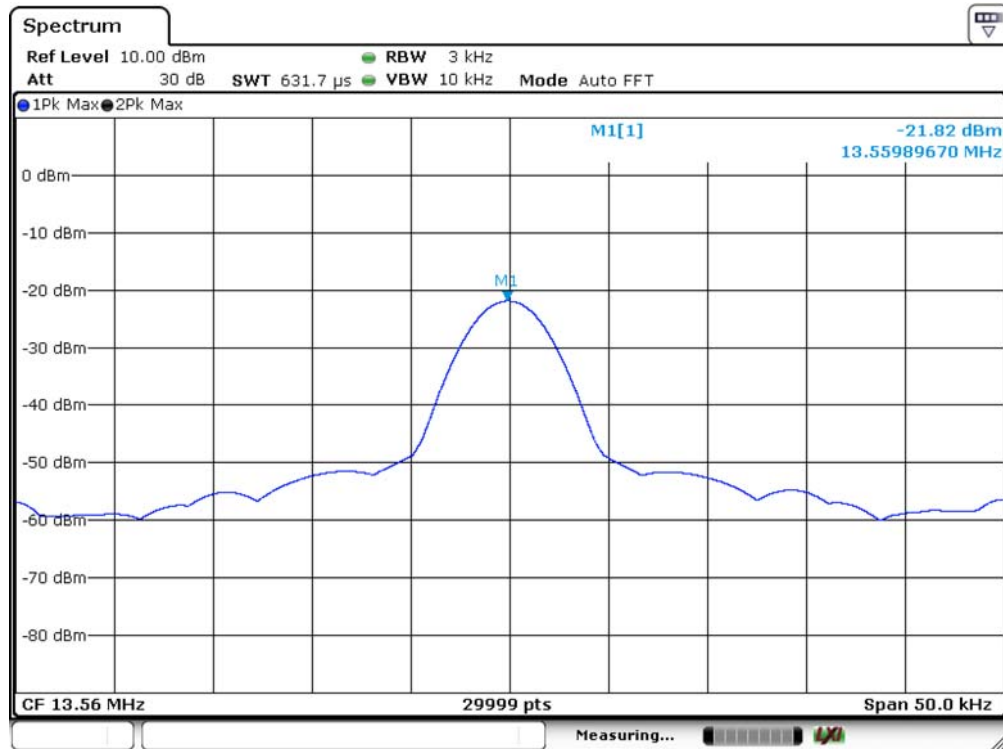
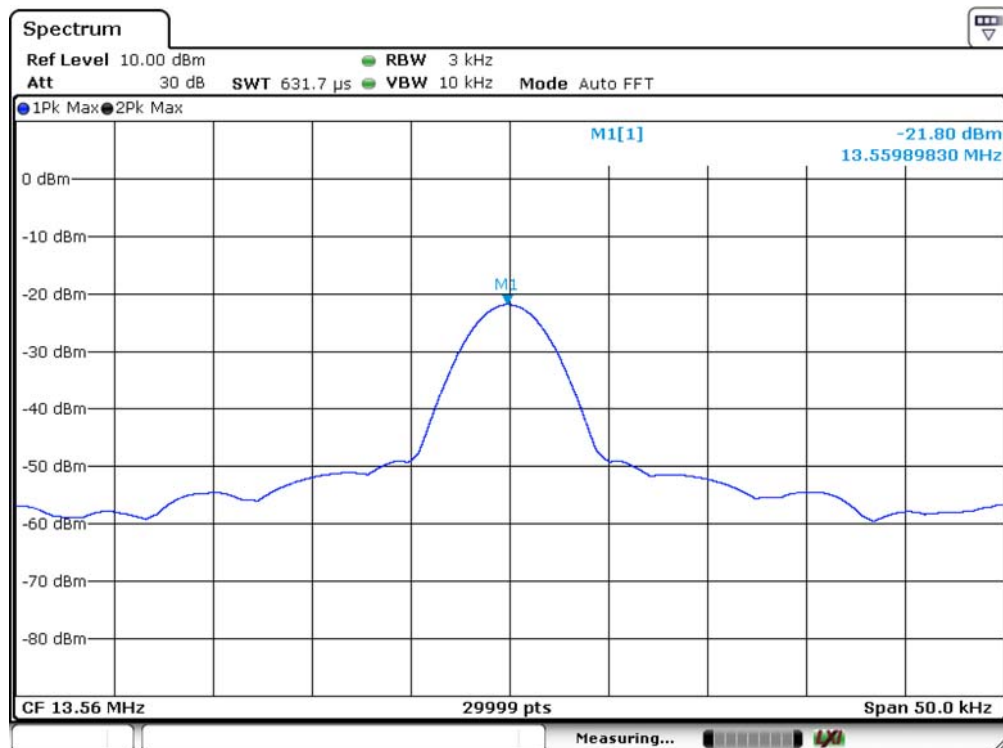
E.U.T :	Portal of Power	Test Mode :	TX Mode
Test Voltage :	DC 5V		

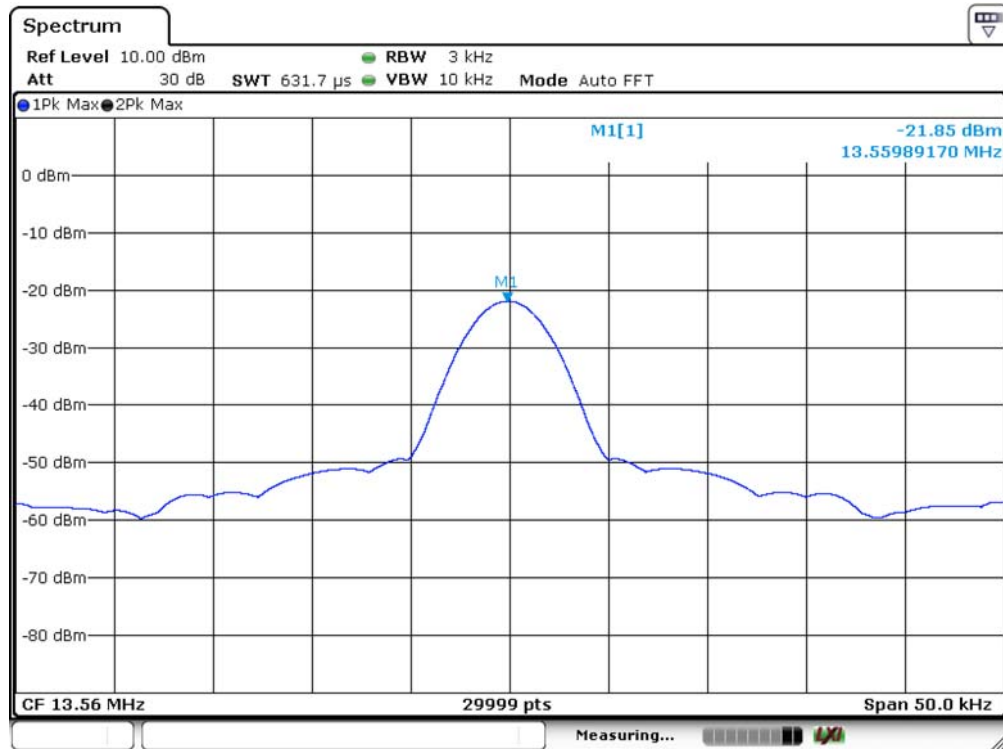
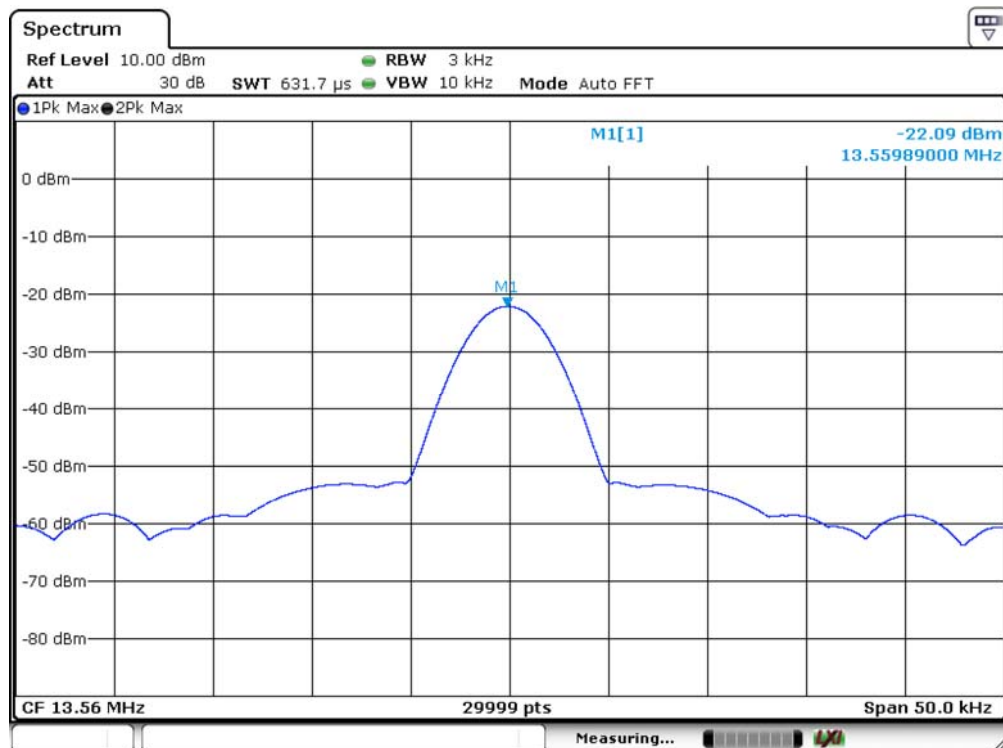
Frequency Stability Versus Environmental Temperature					
Temperature (°C)	Voltage (Vdc)	Frequency (MHz)	Freq Error (ppm)	Limit (ppm)	Results
-20	5V	13.5598950	-7.74	100	PASS
-10	5V	13.5598933	-7.87	100	PASS
0	5V	13.5598950	-7.74	100	PASS
10	5V	13.5598967	-7.62	100	PASS
20	5V	13.5598983	-7.89	100	PASS
30	5V	13.5598917	-7.99	100	PASS
40	5V	13.5598900	-8.11	100	PASS
50	5V	13.5598883	-8.24	100	PASS

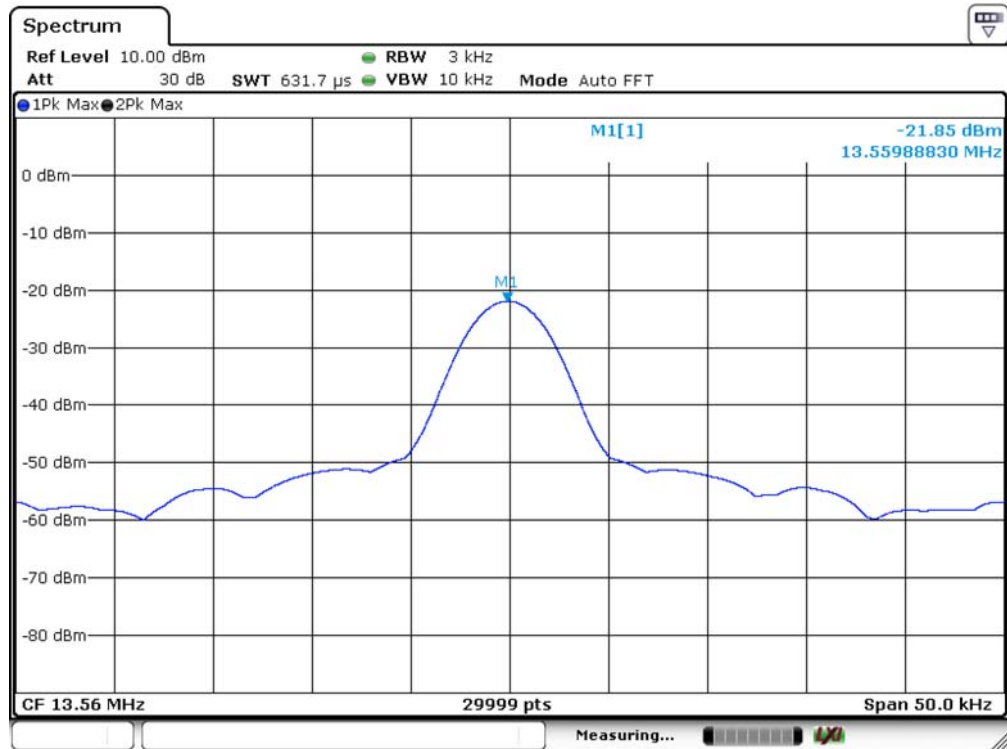
Frequency Stability Versus Environmental Temperature





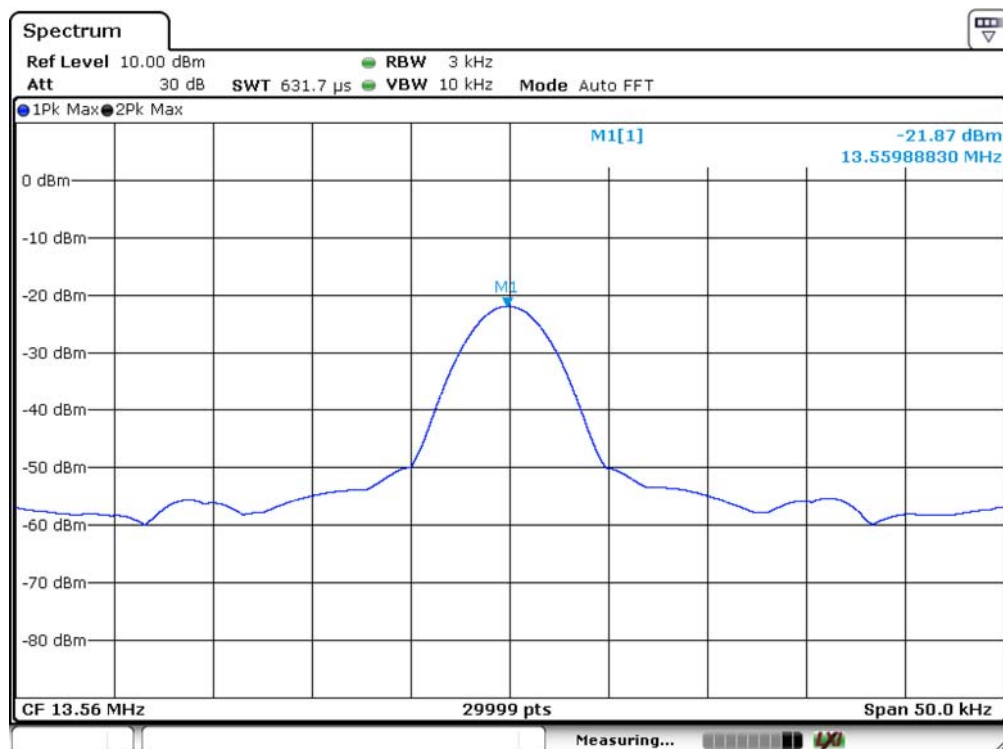


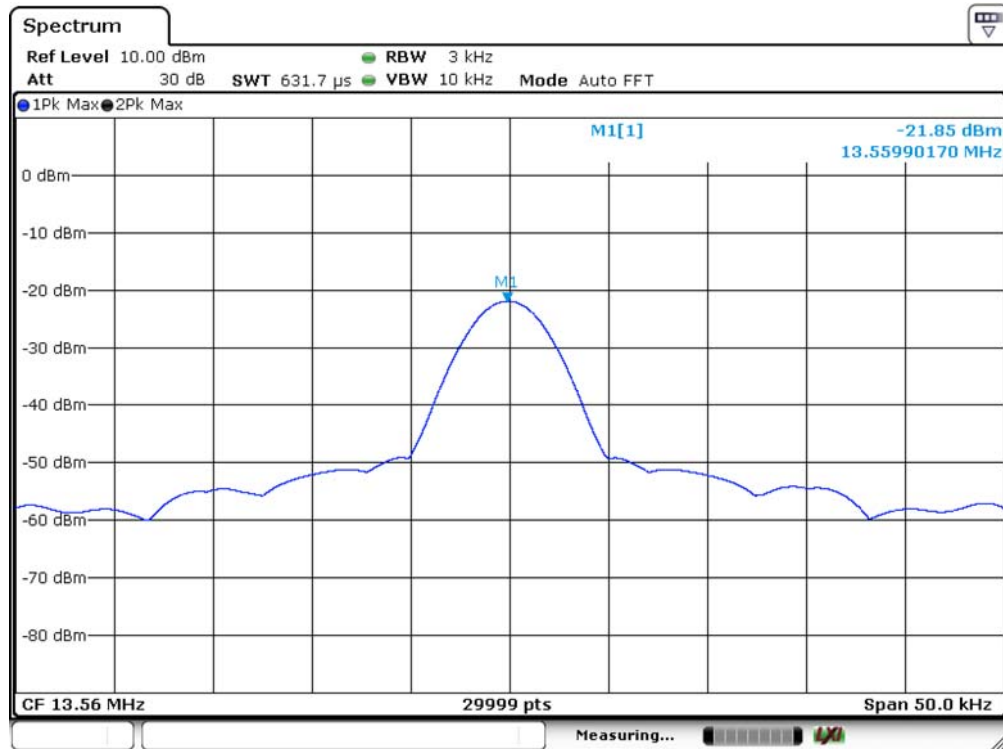
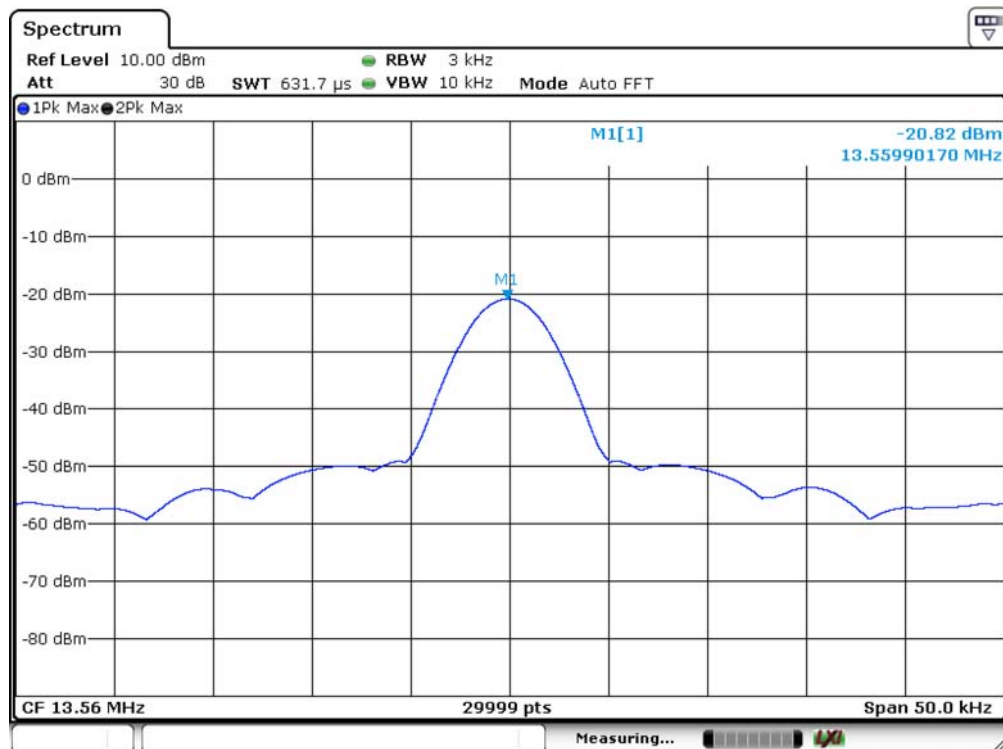


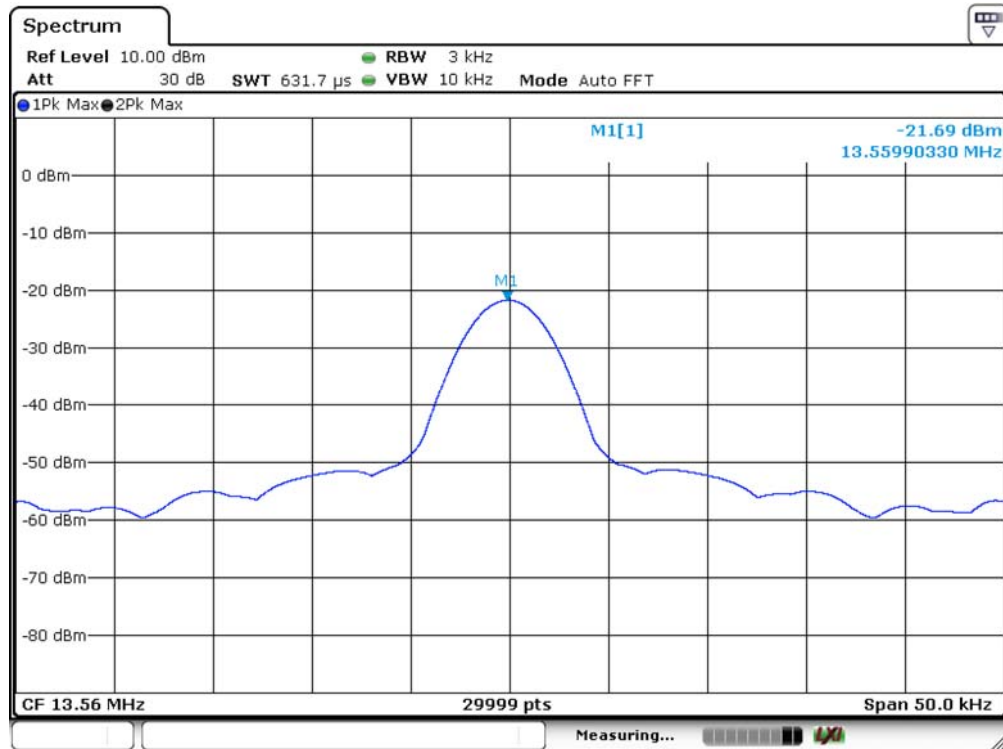
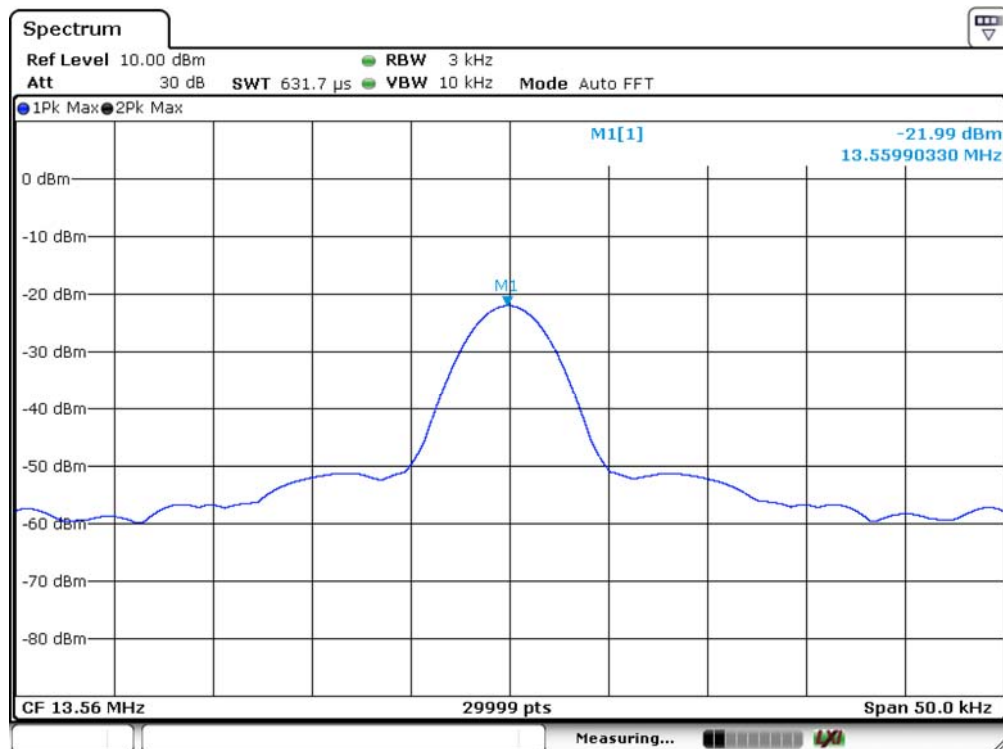


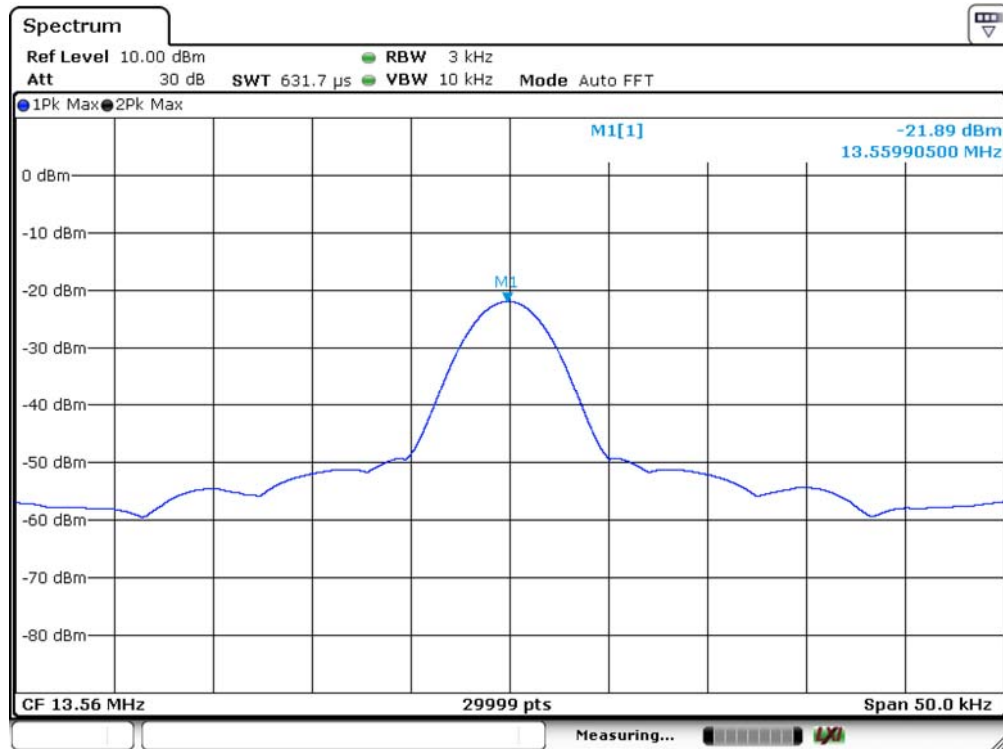
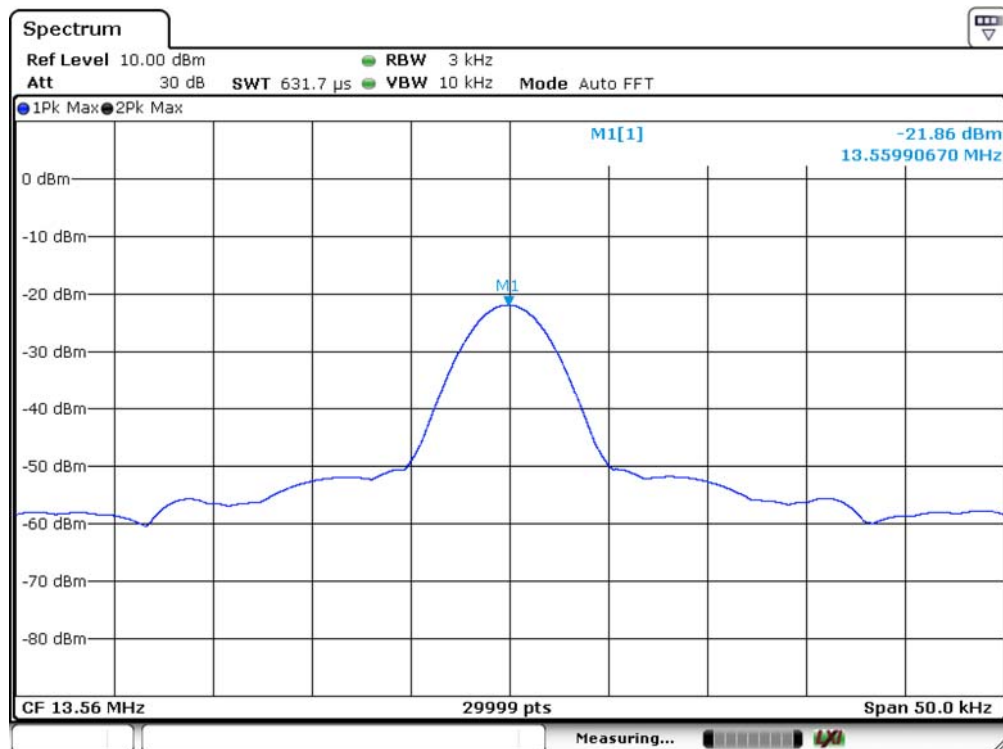
Frequency Stability Versus Input Voltage					
Temperature (°C)	Voltage (Vdc)	Frequency (MHz)	Freq Error (ppm)	Limit (ppm)	Results
20	4.25	13.5598883	-8.24	100	PASS
20	4.50	13.5599017	-7.25	100	PASS
20	4.75	13.5599017	-7.25	100	PASS
20	5.00	13.5599033	-7.13	100	PASS
20	5.25	13.5599033	-7.13	100	PASS
20	5.50	13.5599050	-7.00	100	PASS
20	5.75	13.5599067	-6.88	100	PASS

Frequency Stability Versus Input Voltage









8 EMISSION BANDWIDTH

8.1 Emission Bandwidth Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553 – 13.567 MHz).

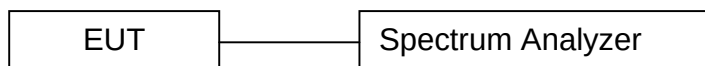
8.2 TEST INSTRUMENTS

Refer a test equipment and calibration data table in this test report.

8.3 TEST PROCEDURE

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 3kHz RBW and 10kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

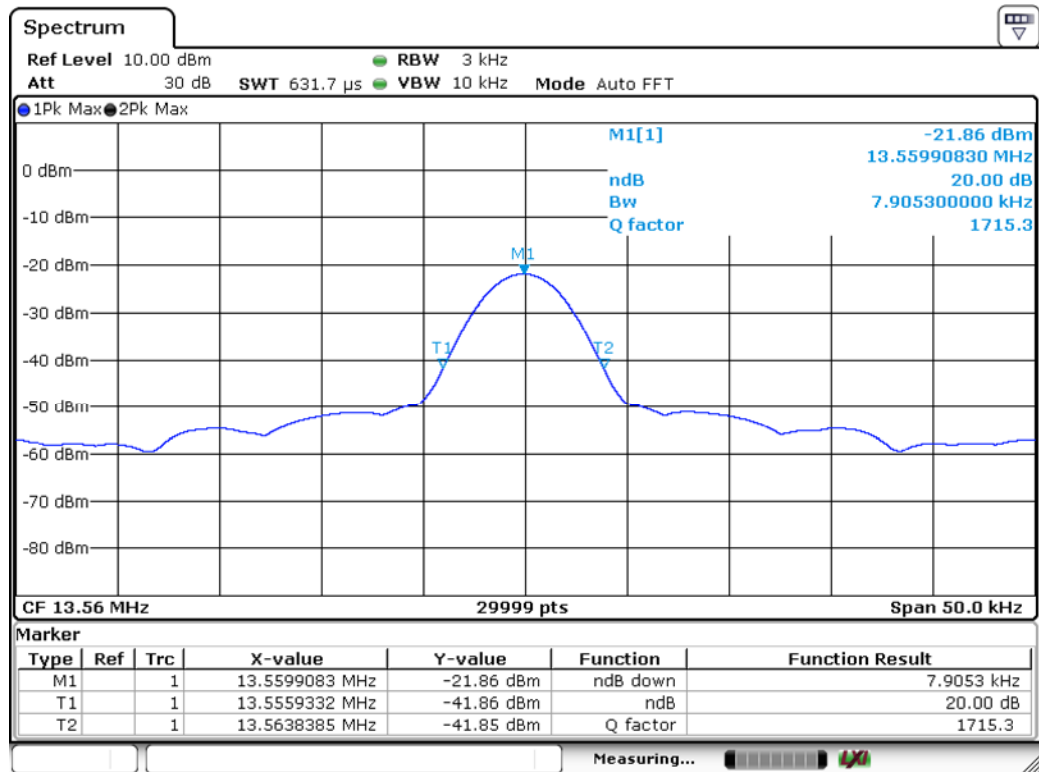
8.4 Test Setup



8.5 Test Result

Frequency (MHz)	20dB Bandwidth (kHz)	Results
13.56	7.9053	PASS

BANDWIDTH TEST PLOT



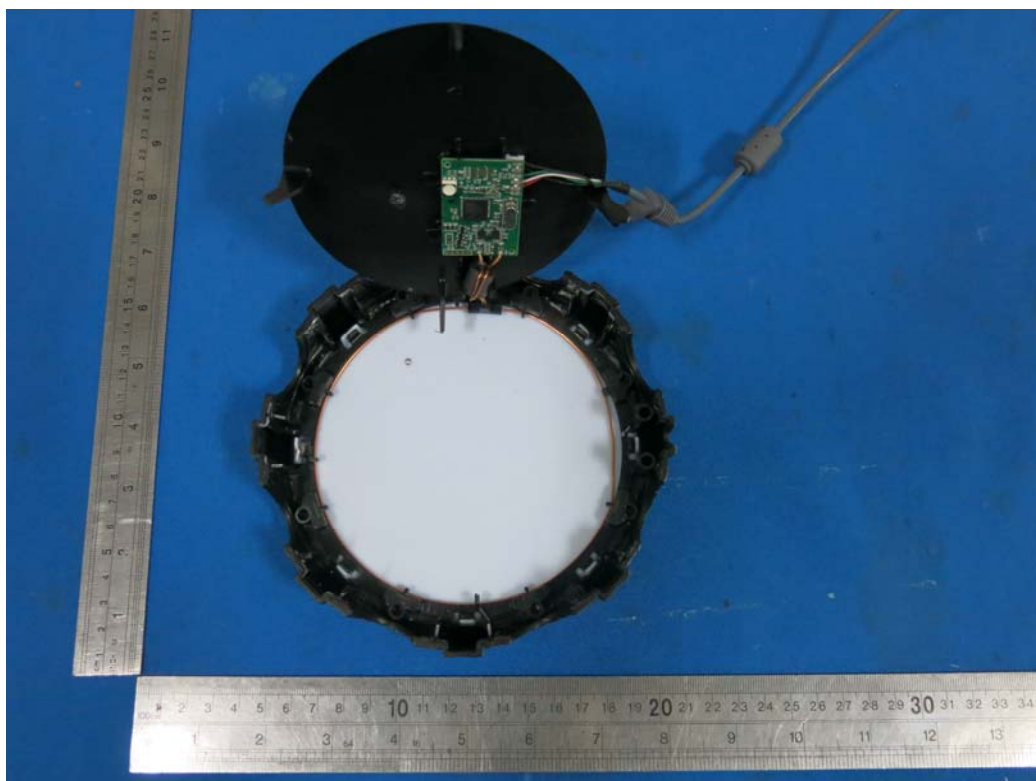
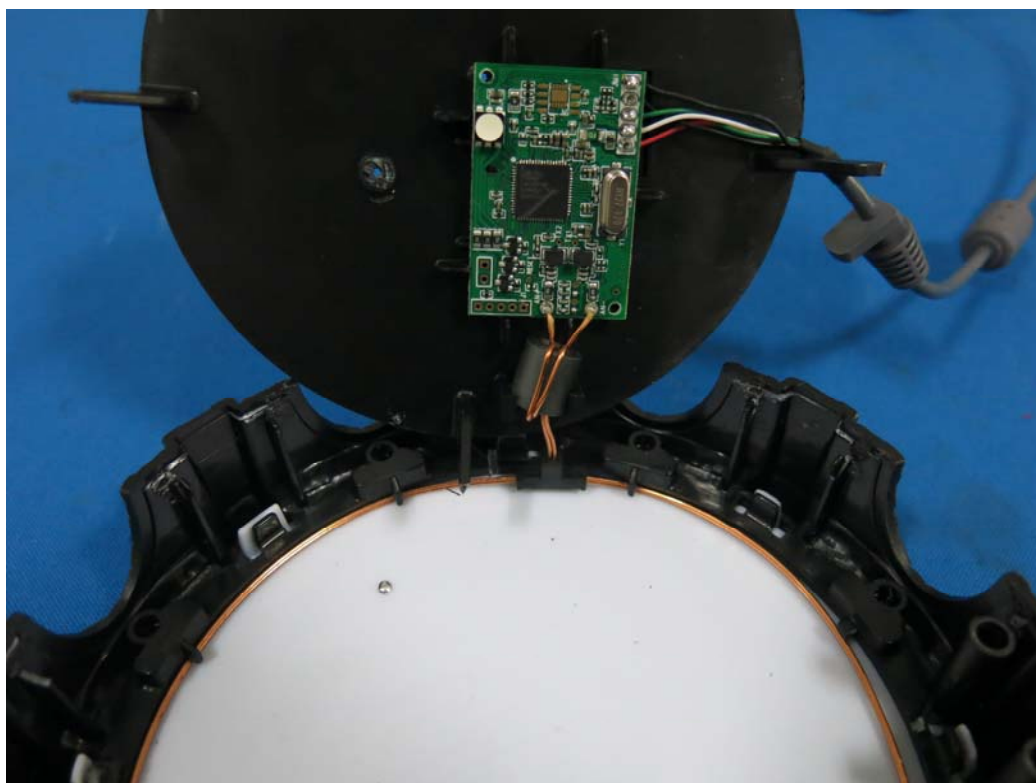
9 ANTENNA REQUIREMENT

The EUT'S antenna is met the requirement of FCC part 15C section 15.203.

9.1 Result

The EUT's antenna used an inter Loop Antenna and integral on the PCB.





APPENDIX I (Photos of EUT)





