SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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FCC REPORT

Application No. :	SZEM1507004683CR
Applicant:	Disney Interactive Studios, Inc.
Manufacturer:	Disney Interactive Studios, Inc.
Factory	Shenzhen King Chuang Tech&Electronic Co., Ltd.
Product Name:	Disney Infinity Base INF-8040889
Model No.(EUT):	INF-8040889
Trade Mark:	Disney Infinity
Operation Frequency:	13.56MHz
FCC ID:	QOF-8040889
Standards:	47 CFR Part 15, Subpart C (2014)
Date of Receipt:	2015-10-20
Date of Test:	2015-10-20 to 2015-10-28
Date of Issue:	2015-10-29
Test Result :	**PASS ***

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

Jack Zhang
EMC Laboratory 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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.
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		*2015-08-18*		*Original*
01		*2015-10-29*	*Change adapter to* FJ-SW2660501000U	*Alternative report*

Authorized for issue by:				
Tested By		 **(Chris Zhong) /Project Engineer**		2015-10-28 **Date**
Prepared By		 **(Iris Zhou) /Clerk**		2015-10-29 **Date**
Checked By		 **(Sen Lv) /Reviewer**		2015-10-29 **Date**

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3 Contents

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4 Test Summary

Test Item	Section in CFR 47	Result
Radiated Emission	Section 15.209;15.225(a)(b)(c)(d)	Pass
Conducted Emission (150kHz to 30MHz)	15.207	Pass

Remark: Pass: The EUT complies with the essential requirements in the standard.

This test report (Ref. No.: SZEM150700468306) is only valid with the original test report (Ref. No.: SZEM150700468302).

Since the electrical circuit design, layout, components used and internal wiring were identical with original sample, only adapter was different, so we retested Radiated Emissions and Conducted Emissions. Other tests please refer to original report SZEM150700468302.

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5 General Information

5.1 Client Information

Applicant:	Disney Interactive Studios, Inc.
Address of Applicant:	1200 Grand Central Avenue, Glendale, California, 91201 United States
Manufacturer:	Disney Interactive Studios, Inc.
Address of Manufacturer:	1200 Grand Central Avenue, Glendale, California, 91201 United States
Factory:	Shenzhen King Chuang Tech&Electronic Co., Ltd.
Address of Factory:	Block A, Mountain Top, Fuyuan Industrial Zone, Jiuwei, Xixiang Town, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	Disney Infinity Base INF-8040889
Model No.:	INF-8040889
Trade Mark:	Disney Infinity
Operation Frequency:	13.56MHz
Power Supply:	Adapter Model: FJ-SW2660501000U Input: AC 100-240V 50/60Hz 0.35A Max Output: DC 5V 1000mA
Power Cord:	-N/A-

5.3 Test Environment and Modes

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	1015 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode.

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
iPad(supplied by client)	Apple	A1566

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5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

5.6 Other Information Requested by the Customer

None.

5.7 Test Facility

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

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

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.: G-823, R-4188, T-1153 and C-2383 respectively.

• **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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 No.: 556682.

• **Industry Canada (IC)**

The 3m Semi-anechoic chambers and the 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2, 4620C-3.

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5.8 Equipment List

RE in Chamber					
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Due date (yyyy-mm-dd)**
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2016-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0027	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0189	2016-05-13
6	Coaxial cable	SGS	N/A	SEL0121	2016-05-13
7	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
8	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2017-11-15
9	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2018-10-17
10	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2016-05-13
11	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2016-10-17
12	Barometer	ChangChun	DYM3	SEL0088	2016-05-13
13	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2016-10-09
14	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2016-10-24
15	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2016-05-13
16	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2016-05-13

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Conducted Emission						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. date (yyyy-mm-dd)**	**Cal.Due date (yyyy-mm-dd)**
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-05-13	2016-05-13
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-09	2016-10-09
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-13	2016-05-13
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	SEL0162	2015-08-30	2016-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	SEL0163	2015-08-30	2016-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	SEL0164	2015-08-30	2016-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-13	2016-05-13
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-13	2016-05-13
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
10	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2015-10-24	2016-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13

Note: The calibration interval is one year, all the instruments are valid.

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5.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-8}
2	Conduction emission	3.0dB (150kHz to 30MHz)
3	Radiated Spurious emission test	4.2dB (9KHz-30MHz)
		4.5dB (30MHz-1GHz)
		4.8dB (1GHz-18GHz)
4	Temperature test	1℃
5	Humidity test	3%
6	DC and low frequency voltages test	0.5%

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6 Test Result & Measurement Data

6.1 Antenna Requirment

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna:	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.	

SGS-CSTC EMC LAB SHEN ZHEN SGS 深圳

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6.2 Radiated Emissions

Test Requirement:	FCC Part15 C Section 15.225
Test Method:	ANSI C63.10: 2009
Measurement Distance:	3m (Semi-Anechoic Chamber)
Requirements:	(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15.848 microvolts/meter at 30 meters. (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters. (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.
Detector:	0.009MHz to 30MHz QP RBW=9KHz VBW=30KHz 30MHz to 1000MHz QP RBW=100KHz VBW=300KHz

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Test Procedure:	1. The EUT is placed on a turntable, which is 0.8m above ground plane. 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance. 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. 6. Repeat above procedures until the measurements for all frequencies are complete. 7. The limit 1.705MHz to 30MHz in clause 4.3 are specified at 30 meters, and measurements were made at 3 meters, the limit is translated to 3 meters by using a formula as follows: Limit 3m = Limit30m + 40log(30m/3)
Test Instruments:	Refer to section 5.8 for details
Test Result:	The unit does meet the FCC Part 15 C Section 15.225 requirements.

1.705-30MHz Mode

Test Procedure: For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.4: 2009, section 8.2.1. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

Measurement Data

Intentional emission

Test Frequency (MHz)	Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)
13.56	56.98	124	-67.02

Remark: 1. The EUT was tested at 3m in field chamber.

2. The EUT modulation type is BPSK modulation, and duty cycle is 100%.

3. Since the field strength of fundamental is lower than the spurious emission limit, so the emission mask was not shown in this report

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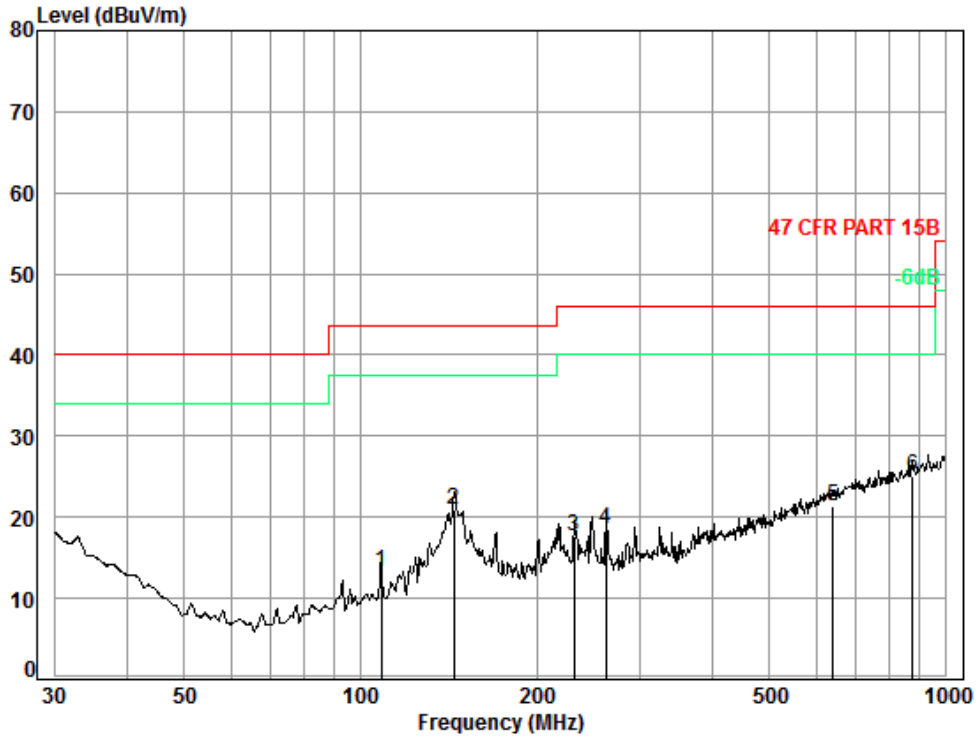
30MHz-1GHz

Horizontal



Condition: 47 CFR PART 15B 3m 3142C Horizontal
Job No. : 4683CR

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	108.65	1.22	8.67	27.14	30.56	13.31	43.50	-30.19
2	144.33	1.31	8.49	26.94	38.15	21.01	43.50	-22.49
3	231.72	1.58	11.71	26.59	30.85	17.55	46.00	-28.45
4	262.90	1.74	12.56	26.50	30.83	18.63	46.00	-27.37
5	642.86	2.79	20.57	27.49	25.42	21.29	46.00	-24.71
6	878.32	3.52	23.03	26.89	25.36	25.02	46.00	-20.98

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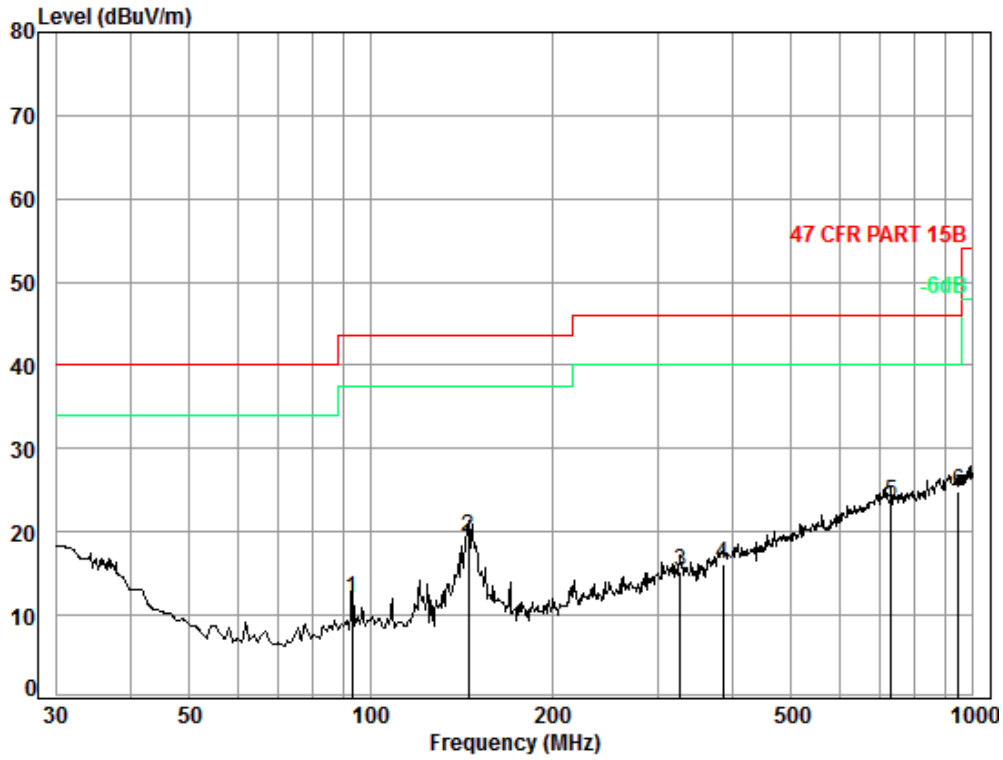
Vertical



Condition: 47 CFR PART 15B 3m 3142C Vertical
Job No. : 4683CR

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	93.11	1.13	8.82	27.21	29.21	11.95	43.50	-31.55
2	145.35	1.31	8.58	26.93	36.43	19.39	43.50	-24.11
3	326.74	1.99	14.74	26.60	25.19	15.32	46.00	-30.68
4	385.28	2.16	16.12	27.03	24.84	16.09	46.00	-29.91
5	731.92	3.00	21.63	27.37	26.19	23.45	46.00	-22.55
6	948.76	3.65	23.30	26.54	24.37	24.78	46.00	-21.22

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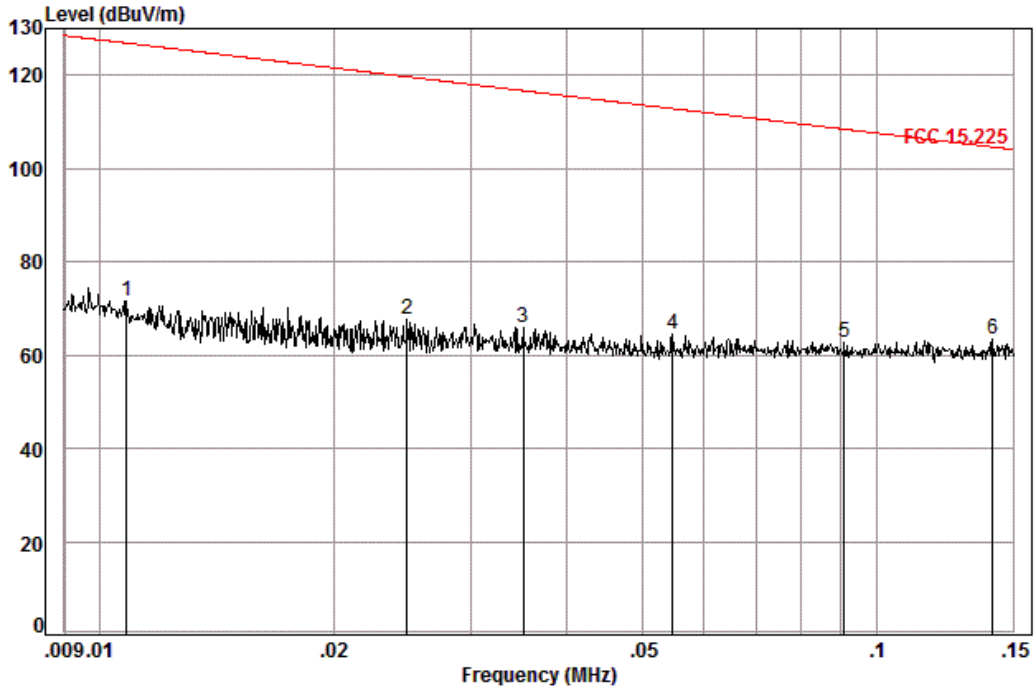
0.009-30MHz



Condition: FCC 15.225 3m
Job No. : 4683CR
Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0.01	0.28	21.23	0.00	50.16	71.67	126.89	-55.22
2	0.02	0.19	15.90	0.00	51.48	67.57	119.68	-52.11
3	0.04	0.16	14.32	0.00	51.57	66.05	116.68	-50.63
4	0.05	0.11	12.74	0.00	51.78	64.63	112.84	-48.21
5	0.09	0.06	12.97	0.00	49.75	62.78	108.42	-45.64
6 pp	0.14	0.06	12.83	0.00	50.50	63.39	104.59	-41.20

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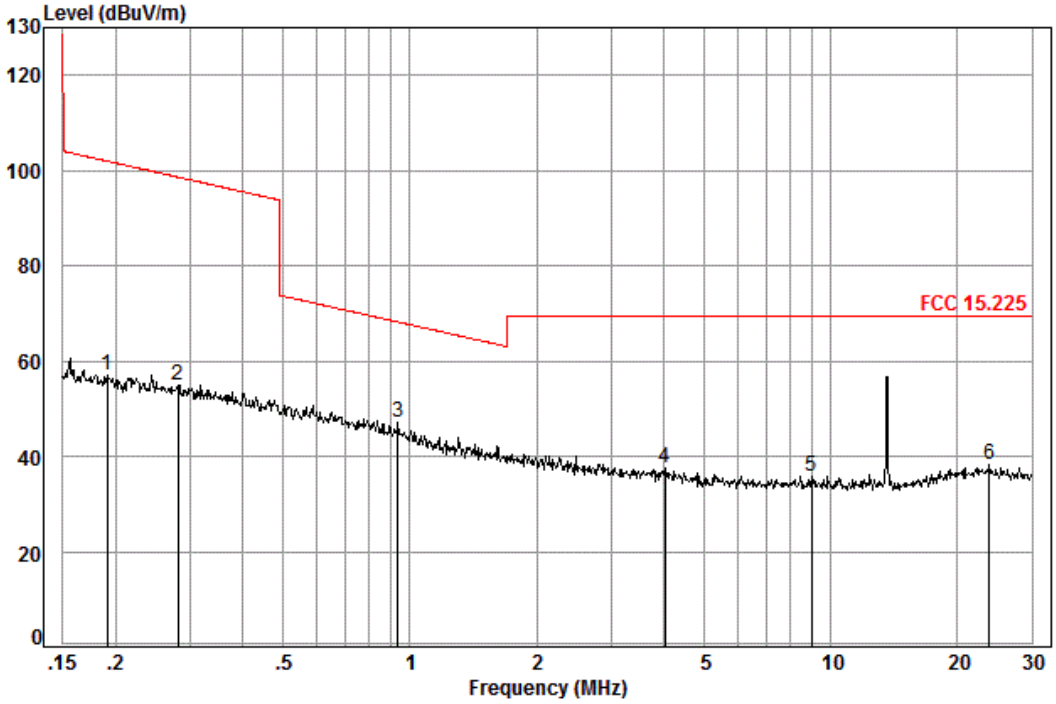

Condition: FCC 15.225 3m
Job No. : 4683CR
Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0.19	0.07	12.80	0.00	44.23	57.10	101.96	-44.86
2	0.28	0.09	12.75	0.00	42.18	55.02	98.60	-43.58
3 pp	0.94	0.22	12.76	0.00	33.97	46.95	68.17	-21.22
4	4.03	0.41	11.97	0.00	25.03	37.41	69.50	-32.09
5	9.01	0.48	10.66	0.00	24.62	35.76	69.50	-33.74
6	23.76	0.72	10.18	0.00	27.46	38.36	69.50	-31.14

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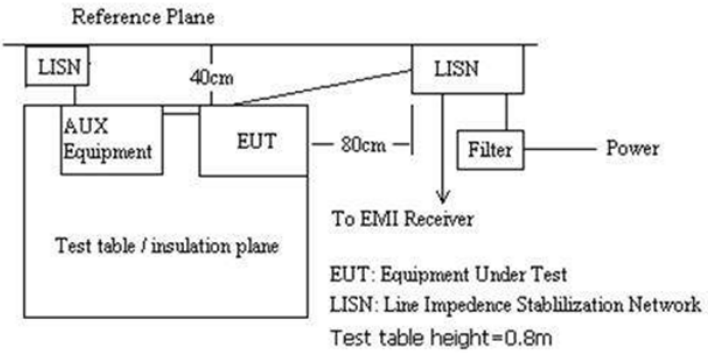
6.3 Conducted Emissions

Test Requirement:	FCC Part 15.207
Test Method:	ANSI C63.10: 2009
Frequency Range:	150kHz to 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth)
	Quasi-Peak if maximized peak within 6dB of Quasi-Peak limit
Plan View of Test Setup	
Test Instruments:	Refer to section 5.8 for details
Test Results:	Pass

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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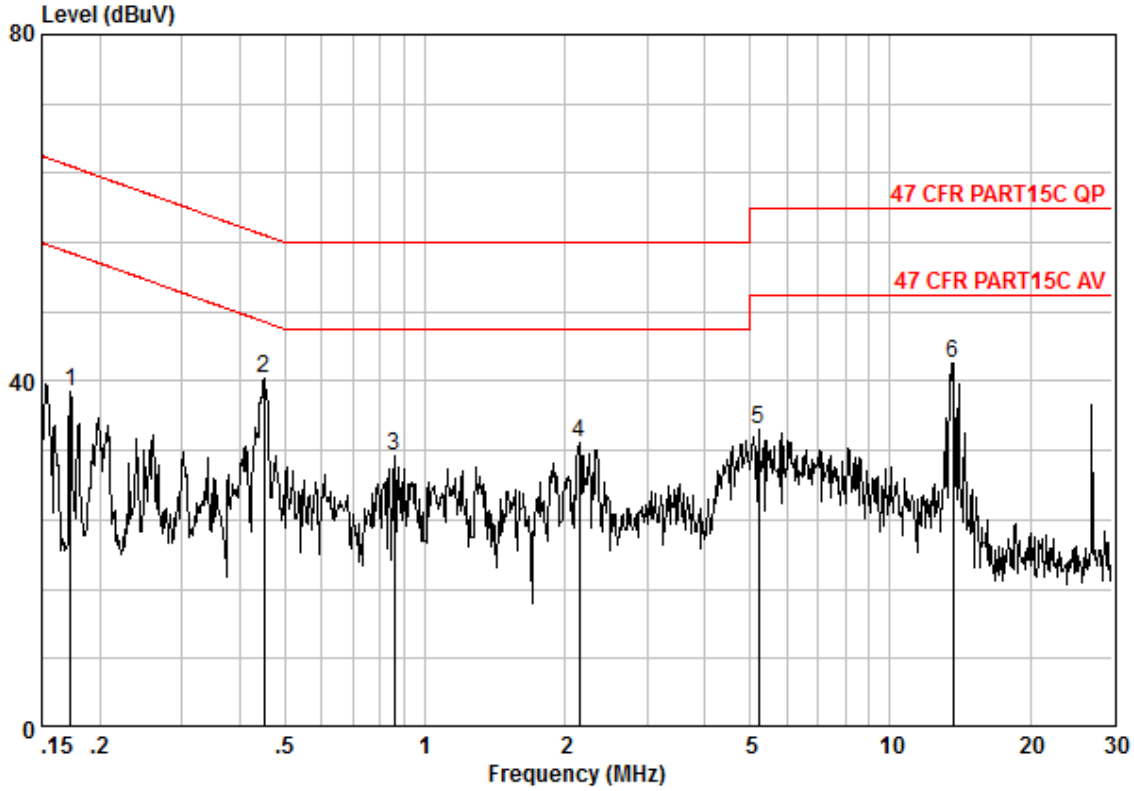
Live Line



Site : Shielding Room
Condition : 47 CFR PART15C AV CE LINE
Job No. : 4683CR
Test mode : TX

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17307	0.02	9.82	28.95	38.79	54.81	-16.02	Peak
2	0.45155	0.01	9.86	30.47	40.34	46.85	-6.51	Peak
3	0.85729	0.02	9.89	21.43	31.34	46.00	-14.66	Peak
4	2.144	0.02	9.96	22.87	32.85	46.00	-13.15	Peak
5	5.221	0.01	10.12	24.23	34.36	50.00	-15.64	Peak
6	13.623	0.01	10.16	31.91	42.08	50.00	-7.92	Peak

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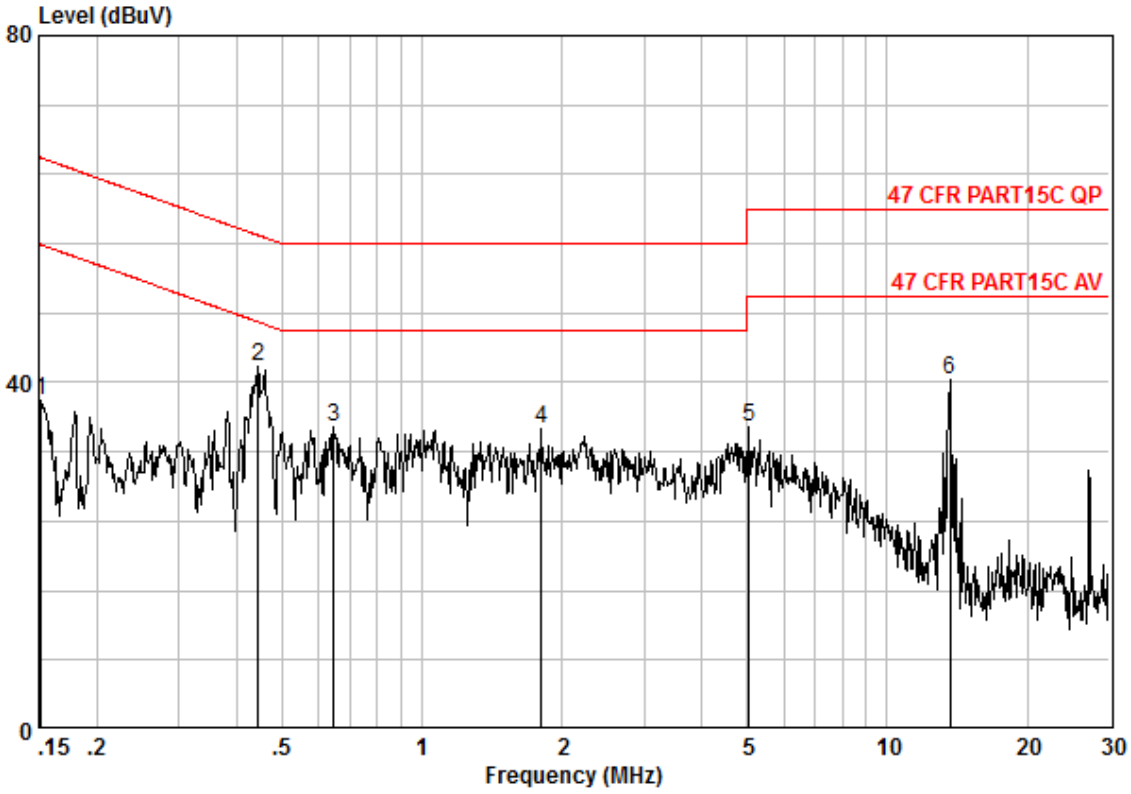
Neutral Line



Site : Shielding Room
Condition : 47 CFR PART15C AV CE NEUTRAL
Job No. : 4683CR
Test mode : TX

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15160	0.02	9.78	28.13	37.93	55.91	-17.98	Peak
2 @	0.44443	0.01	9.88	32.00	41.89	46.98	-5.09	Peak
3	0.64740	0.02	9.94	24.96	34.92	46.00	-11.08	Peak
4	1.810	0.02	10.11	24.47	34.60	46.00	-11.40	Peak
5	5.058	0.01	10.13	24.84	34.98	50.00	-15.02	Peak
6	13.623	0.01	10.20	30.20	40.41	50.00	-9.59	Peak

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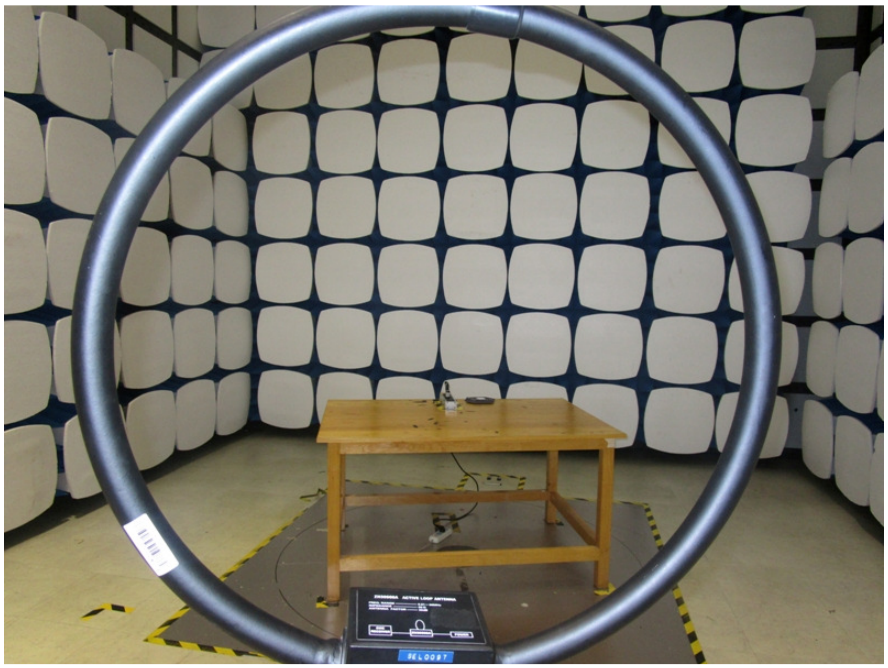
7 Photographs - EUT Test Setup

Test Model No.: INF-8040889

7.1 Conducted Emission

7.2 Radiated Spurious Emission



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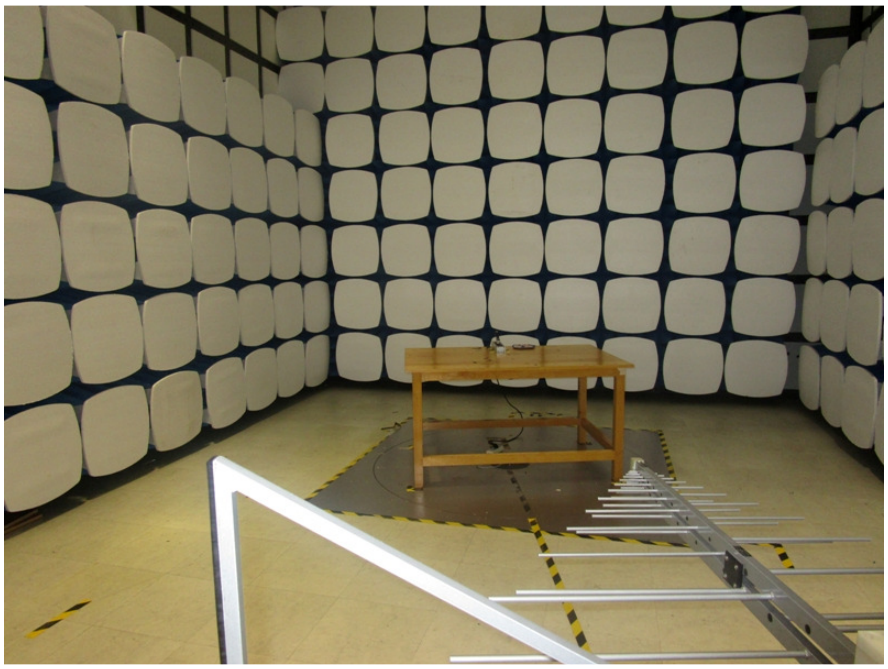

8 Photographs - EUT Construction Details

Refer to Appendix A – Photographs for EUT Constructional Details for SZEM1507004683CR.

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