



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

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  
Email: ee.shenzhen@sgs.com

Report No.: SZEM180700631002  
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## **TEST REPORT**

**Application No.:** SZEM1807006310PS  
**Applicant:** Sony Mobile Communications Inc.  
**Address of Applicant:** 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, Japan  
**Manufacturer:** Sony Mobile Communications Inc.  
**Address of Manufacturer:** 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, Japan  
**Equipment Under Test (EUT):**  
**EUT Name:** Charger  
**FCC ID:** PY7-76486P  
**Trade mark:** SONY  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2018-07-17  
**Date of Test:** 2018-07-17 to 2018-07-19  
**Date of Issue:** 2018-11-16

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.





Keny Xu  
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.

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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2018-11-16		Original

Authorized for issue by:				
				
		<hr/>		
		Foray Chen /Project Engineer		
				
		<hr/>		
		Eric Fu /Reviewer		

## 2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Input: AC100-240V 50-60Hz 500mA Output: DC5.0V 3000mA / DC9.0V 2000mA / DC12.0V 1500mA
Test voltage:	AC120V 60Hz

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Load Resistor	SGS	N/A	REF. No.SEA0600
Type-C Cable	SONY	N/A	100cm shielded

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.5dB (30MHz-1GHz)
3	Temperature test	± 1 °C
4	Humidity test	± 3%



#### **4.4 Test Location**

All tests were performed at:

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

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

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### **4.5 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 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber 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-1, 4620C-2, 4620C-3.

#### **4.6 Deviation from Standards**

None

#### **4.7 Abnormalities from Standard Conditions**

None



## 5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11
LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-09-27	2018-09-26
LISN	ETS-LINDGREN	3816/2	SEM007-02	2018-04-02	2019-04-01
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018-04-02	2019-04-01

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018-07-12	2019-07-11
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018-04-02	2019-04-01
Trilog-Broadband Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2018-04-13	2019-04-12

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07

## 6 Emission Test Results

### 6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 26.2 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1005 mbar

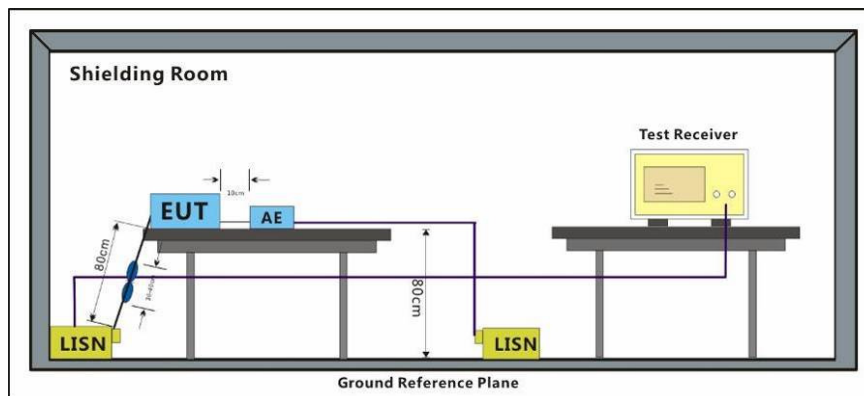
Pretest these modes to find the worst case:

- a: DC5V output mode, keep EUT working with full load.
- b: DC9V output mode, keep EUT working with full load.
- c: DC12V output mode, keep EUT working with full load.

The worst case for final test:

- a: DC5V output mode, keep EUT working with full load.
- b: DC9V output mode, keep EUT working with full load.
- c: DC12V output mode, keep EUT working with full load.

#### 6.1.2 Test Setup Diagram



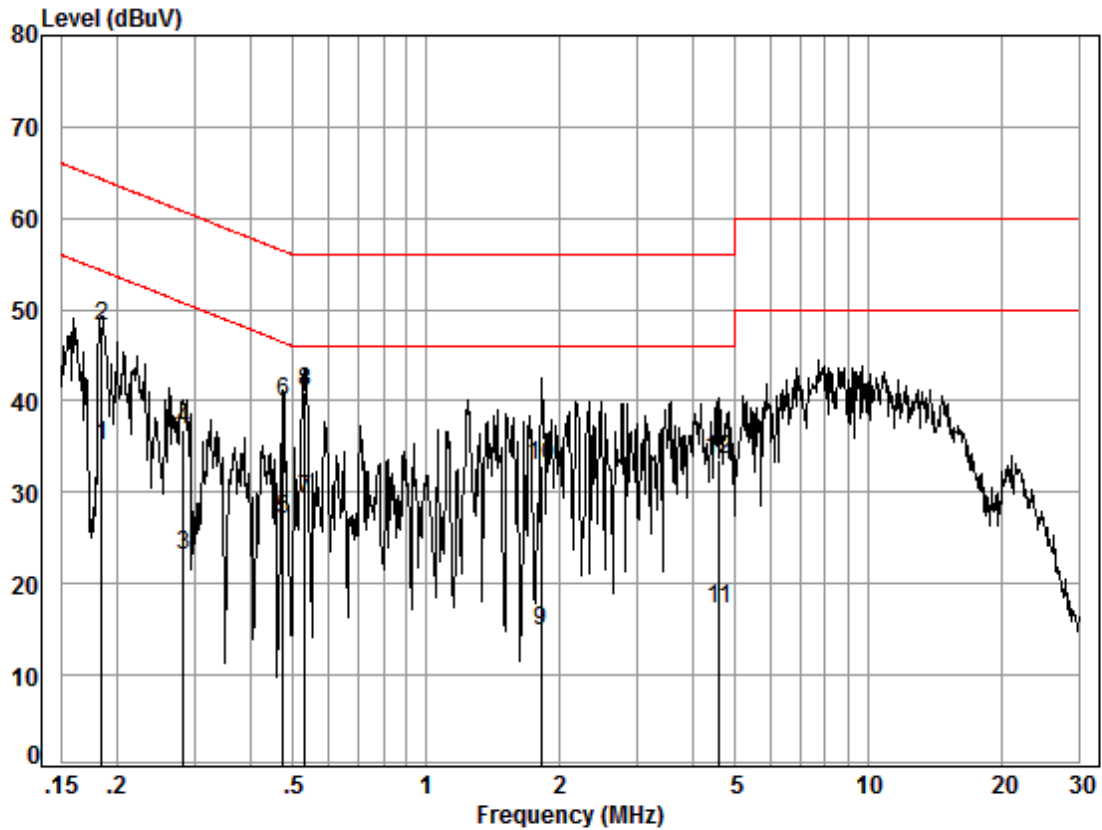
#### 6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.





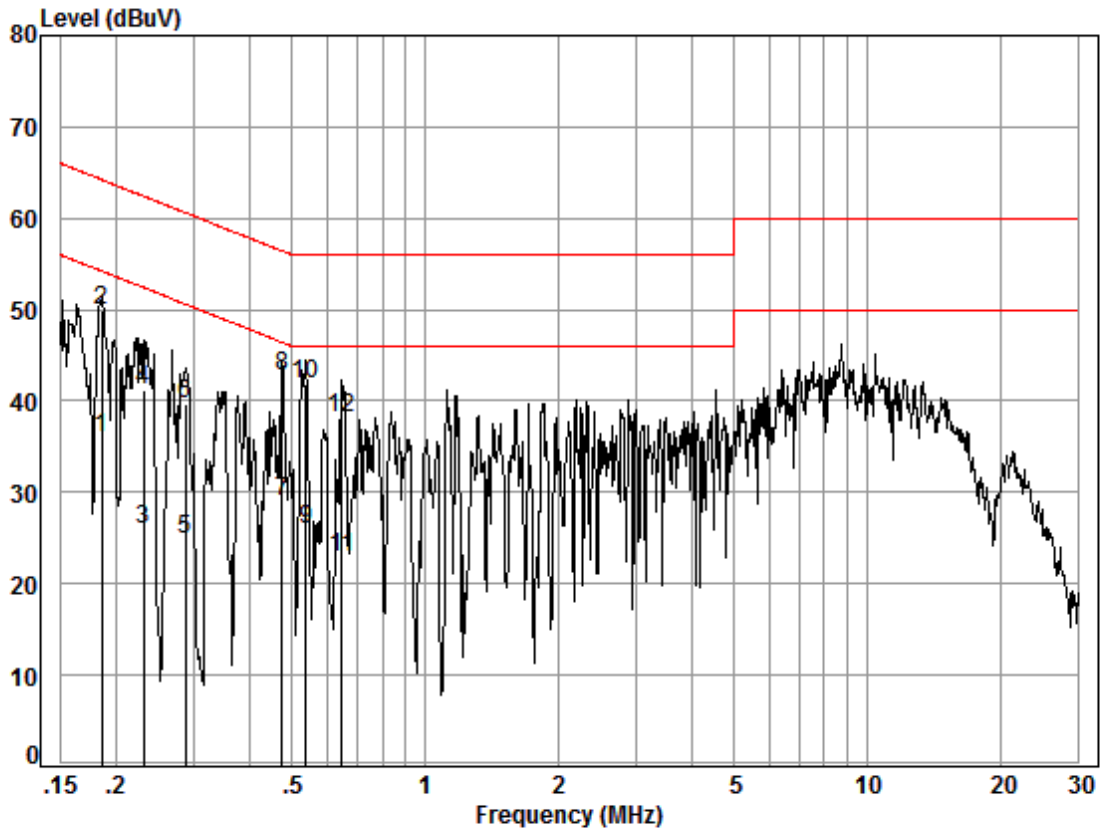
Mode:a; Line:Live Line



Site : Shielding Room  
Condition: Line  
Job No. : 06310PS  
Mode : a

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.03	9.51	25.64	35.18	54.28	-19.10	Average
2	0.18	0.03	9.51	38.58	48.12	64.28	-16.16	QP
3	0.28	0.03	9.51	13.67	23.21	50.72	-27.51	Average
4	0.28	0.03	9.51	27.29	36.83	60.72	-23.89	QP
5	0.47	0.04	9.49	17.40	26.93	46.45	-19.52	Average
6	0.47	0.04	9.49	30.28	39.81	56.45	-16.64	QP
7	0.53	0.05	9.50	19.72	29.27	46.00	-16.73	Average
8	0.53	0.05	9.50	31.40	40.95	56.00	-15.05	QP
9	1.82	0.14	9.51	5.12	14.77	46.00	-31.23	Average
10	1.82	0.14	9.51	23.16	32.81	56.00	-23.19	QP
11	4.60	0.20	9.55	7.56	17.31	46.00	-28.69	Average
12	4.60	0.20	9.55	23.73	33.48	56.00	-22.52	QP

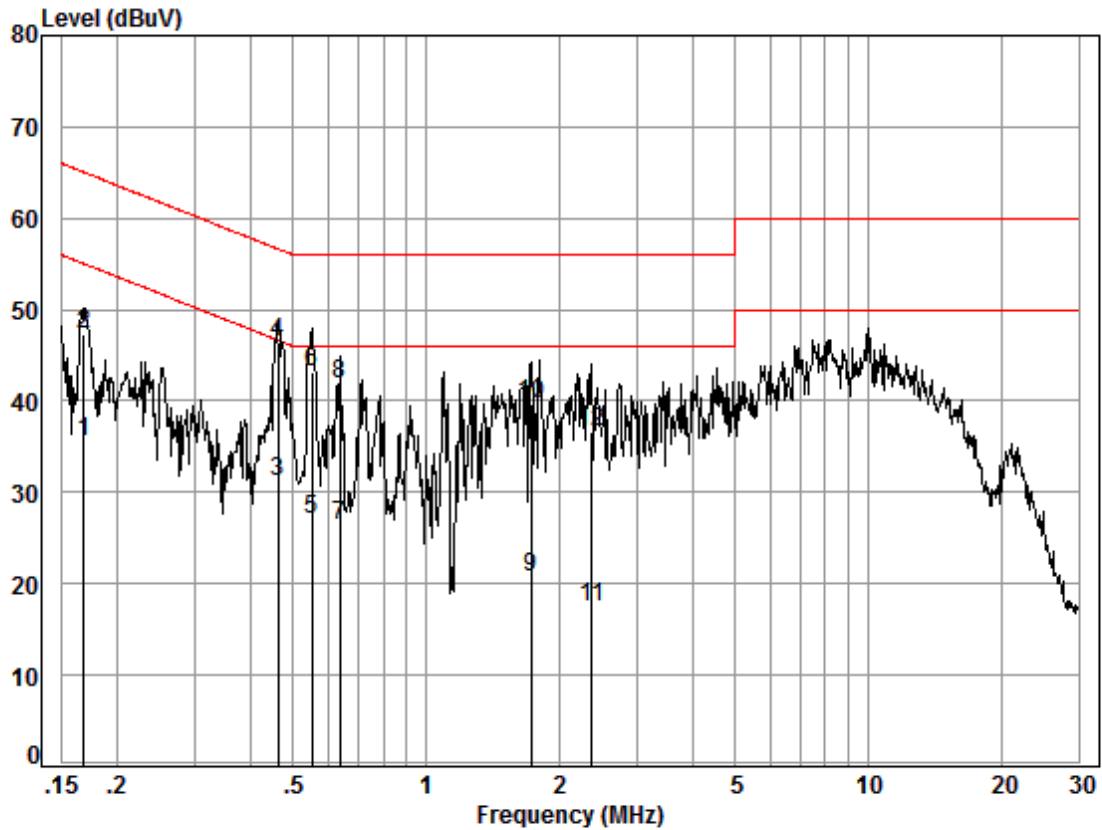
Mode:a; Line:Neutral Line



Site : Shielding Room  
 Condition: Neutral  
 Job No. : 06310PS  
 Mode : a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.03	9.58	26.41	36.02	54.24	-18.22	Average
2	0.19	0.03	9.58	40.20	49.81	64.24	-14.43	QP
3	0.23	0.03	9.58	16.25	25.86	52.44	-26.58	Average
4	0.23	0.03	9.58	31.53	41.14	62.44	-21.30	QP
5	0.29	0.03	9.58	15.14	24.75	50.63	-25.88	Average
6	0.29	0.03	9.58	29.98	39.59	60.63	-21.04	QP
7	0.47	0.04	9.60	19.46	29.10	46.45	-17.35	Average
8	0.47	0.04	9.60	33.01	42.65	56.45	-13.80	QP
9	0.54	0.05	9.61	16.28	25.94	46.00	-20.06	Average
10	0.54	0.05	9.61	32.20	41.86	56.00	-14.14	QP
11	0.65	0.06	9.62	13.30	22.98	46.00	-23.02	Average
12	0.65	0.06	9.62	28.52	38.20	56.00	-17.80	QP

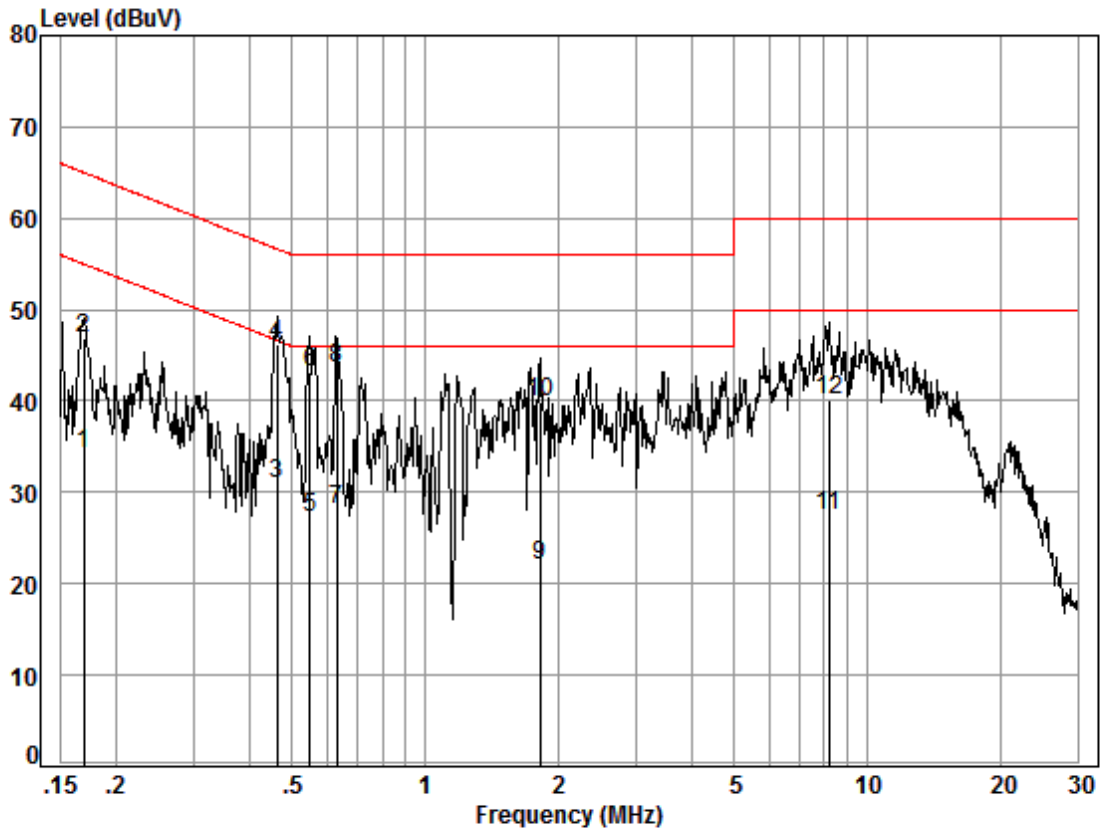
Mode:b; Line:Live Line



Site : Shielding Room  
 Condition: Line  
 Job No. : 06310PS  
 Mode : b

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.52	25.89	35.43	55.03	-19.60	Average
2	0.17	0.02	9.52	37.86	47.40	65.03	-17.63	QP
3	0.46	0.04	9.49	21.65	31.18	46.63	-15.45	Average
4	0.46	0.04	9.49	36.83	46.36	56.63	-10.27	QP
5	0.55	0.05	9.51	17.58	27.14	46.00	-18.86	Average
6	0.55	0.05	9.51	33.51	43.07	56.00	-12.93	QP
7	0.64	0.06	9.51	16.81	26.38	46.00	-19.62	Average
8	0.64	0.06	9.51	32.24	41.81	56.00	-14.19	QP
9	1.73	0.14	9.51	11.08	20.73	46.00	-25.27	Average
10	1.73	0.14	9.51	30.10	39.75	56.00	-16.25	QP
11	2.37	0.16	9.52	7.86	17.54	46.00	-28.46	Average
12	2.37	0.16	9.52	26.98	36.66	56.00	-19.34	QP

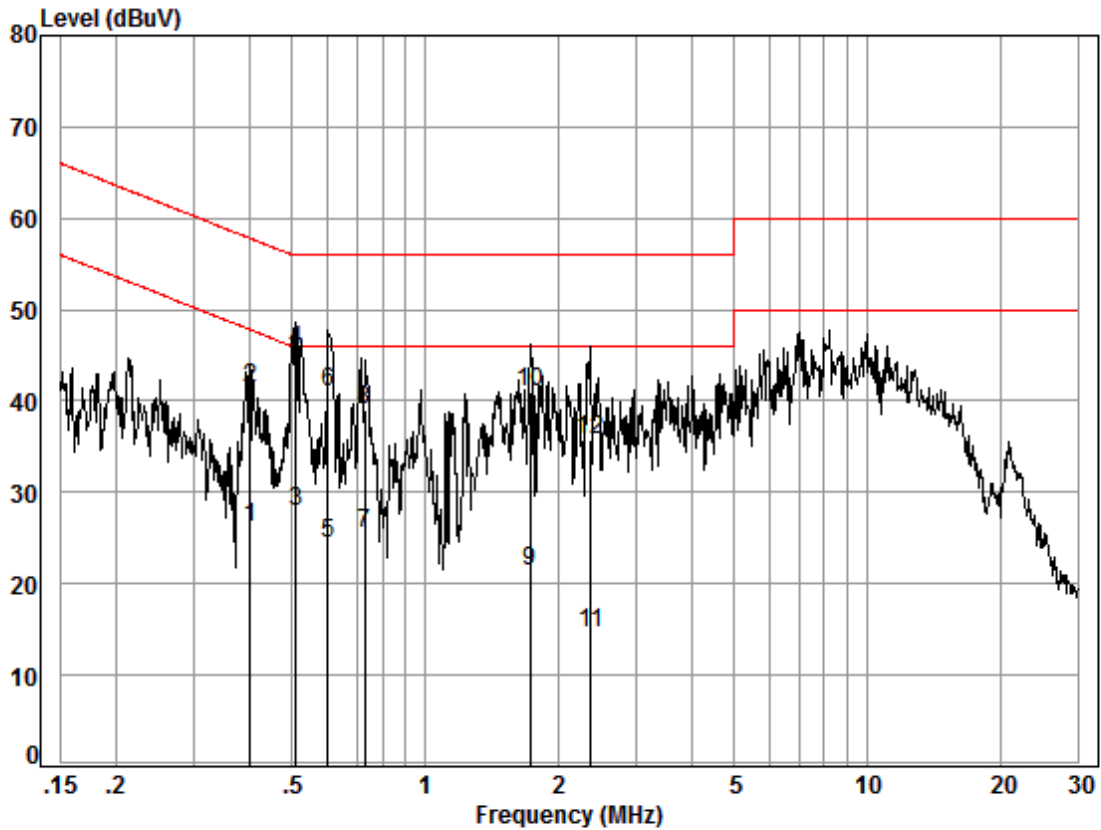
Mode:b; Line:Neutral Line



Site : Shielding Room  
 Condition: Neutral  
 Job No. : 06310PS  
 Mode : b

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.59	24.69	34.30	54.99	-20.69	Average
2	0.17	0.02	9.59	37.32	46.93	64.99	-18.06	QP
3	0.46	0.04	9.60	21.37	31.01	46.63	-15.62	Average
4	0.46	0.04	9.60	36.53	46.17	56.63	-10.46	QP
5	0.55	0.05	9.61	17.61	27.27	46.00	-18.73	Average
6	0.55	0.05	9.61	33.44	43.10	56.00	-12.90	QP
7	0.63	0.06	9.62	18.42	28.10	46.00	-17.90	Average
8	0.63	0.06	9.62	33.98	43.66	56.00	-12.34	QP
9	1.82	0.14	9.64	12.13	21.91	46.00	-24.09	Average
10	1.82	0.14	9.64	30.01	39.79	56.00	-16.21	QP
11	8.19	0.19	9.75	17.51	27.45	50.00	-22.55	Average
12	8.19	0.19	9.75	30.27	40.21	60.00	-19.79	QP

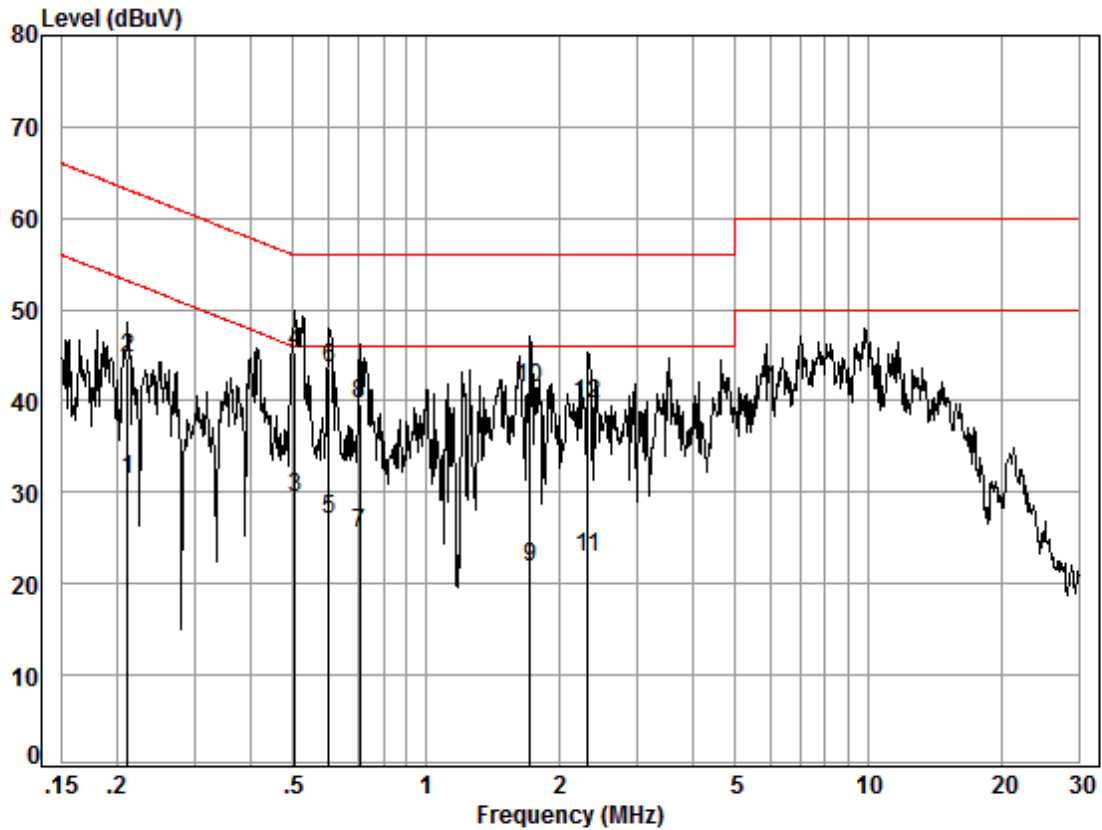
Mode:c; Line:Live Line



Site : Shielding Room  
 Condition: Line  
 Job No. : 06310PS  
 Mode : c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.40	0.04	9.49	16.67	26.20	47.81	-21.61	Average
2	0.40	0.04	9.49	31.90	41.43	57.81	-16.38	QP
3	0.51	0.04	9.49	18.44	27.97	46.00	-18.03	Average
4	0.51	0.04	9.49	36.03	45.56	56.00	-10.44	QP
5	0.60	0.06	9.53	14.75	24.34	46.00	-21.66	Average
6	0.60	0.06	9.53	31.41	41.00	56.00	-15.00	QP
7	0.73	0.07	9.49	16.05	25.61	46.00	-20.39	Average
8	0.73	0.07	9.49	29.48	39.04	56.00	-16.96	QP
9	1.73	0.14	9.51	11.66	21.31	46.00	-24.69	Average
10	1.73	0.14	9.51	31.38	41.03	56.00	-14.97	QP
11	2.37	0.16	9.52	4.84	14.52	46.00	-31.48	Average
12	2.37	0.16	9.52	26.17	35.85	56.00	-20.15	QP

Mode:c; Line:Neutral Line



Site : Shielding Room  
 Condition: Neutral  
 Job No. : 06310PS  
 Mode : c

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.21	0.03	9.57	21.73	31.33	53.14	-21.81	Average
2	0.21	0.03	9.57	35.09	44.69	63.14	-18.45	QP
3	0.50	0.04	9.60	19.72	29.36	46.00	-16.64	Average
4	0.50	0.04	9.60	35.71	45.35	56.00	-10.65	QP
5	0.60	0.06	9.62	17.35	27.03	46.00	-18.97	Average
6	0.60	0.06	9.62	34.01	43.69	56.00	-12.31	QP
7	0.71	0.07	9.62	15.81	25.50	46.00	-20.50	Average
8	0.71	0.07	9.62	29.93	39.62	56.00	-16.38	QP
9	1.72	0.14	9.64	11.97	21.75	46.00	-24.25	Average
10	1.72	0.14	9.64	31.66	41.44	56.00	-14.56	QP
11	2.32	0.16	9.64	13.06	22.86	46.00	-23.14	Average
12	2.32	0.16	9.64	29.79	39.59	56.00	-16.41	QP

## 6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B	
Test Method:	ANSI C63.4:2014	
Frequency Range:	30MHz to 1GHz	
Measurement Distance:	10m	
Limit of 3m:		
30MHz -88MHz	40(dB $\mu$ V/m) quasi-peak	
88MHz-216MHz	43.5(dB $\mu$ V/m) quasi-peak	
216MHz-960MHz	46(dB $\mu$ V/m) quasi-peak	
960MHz-1000MHz	54(dB $\mu$ V/m) quasi-peak	
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz	

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C      Humidity: 51 % RH      Atmospheric Pressure: 1005 mbar

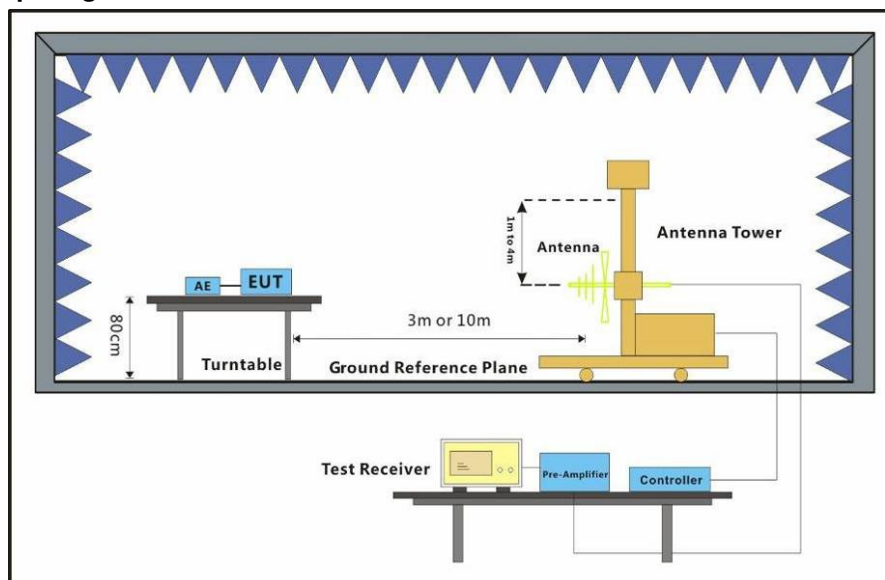
Pretest these modes to find the worst case:

- a: DC5V output mode, keep EUT working with full load.
- b: DC9V output mode, keep EUT working with full load.
- c: DC12V output mode, keep EUT working with full load.

The worst case for final test:

- a: DC5V output mode, keep EUT working with full load.
- b: DC9V output mode, keep EUT working with full load.
- c: DC12V output mode, keep EUT working with full load.

### 6.2.2 Test Setup Diagram



### 6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



Mode: a

**Radiated Emissions**

Polarization	Frequency (MHz)	Cable_Loss (dB)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Reading at 10m (dB $\mu$ V)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	43.050	6.85	13.06	32.46	26.59	24.50	40.00	-15.50
Horizontal	164.908	7.50	12.91	32.42	28.63	27.08	43.50	-16.42
Horizontal	271.325	7.91	11.89	32.37	28.18	26.07	46.00	-19.93
Horizontal	495.934	8.59	16.74	32.35	26.61	30.05	46.00	-15.95
Horizontal	609.922	8.90	18.91	32.36	27.42	33.33	46.00	-12.67
Horizontal	758.041	9.21	20.86	32.22	27.85	36.16	46.00	-9.84
Vertical	54.261	6.96	12.43	32.45	30.10	27.50	40.00	-12.50
Vertical	97.456	7.19	9.22	32.47	32.42	26.82	43.50	-16.68
Vertical	157.007	7.47	13.40	32.42	30.34	29.25	43.50	-14.25
Vertical	210.048	7.67	9.53	32.40	31.21	26.47	43.50	-17.03
Vertical	334.859	8.12	13.56	32.35	26.88	26.67	46.00	-19.33
Vertical	499.425	8.60	16.78	32.35	27.63	31.12	46.00	-14.88

**NOTES:**

1. Quasi-Peak detector is used except for others stated.
2. All measurements were made at 10 meters.
3. Negative value in the margin column shows emission below limit.





Mode: b

**Radiated Emissions**

Polarization	Frequency (MHz)	Cable_Loss (dB)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Reading at 10m (dB $\mu$ V)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	40.135	6.82	13.31	32.46	27.18	25.31	40.00	-14.69
Horizontal	52.760	6.94	12.55	32.45	27.53	25.03	40.00	-14.97
Horizontal	165.487	7.50	12.85	32.42	28.41	26.80	43.50	-16.70
Horizontal	326.740	8.10	13.40	32.35	27.32	26.93	46.00	-19.07
Horizontal	530.101	8.69	17.37	32.36	27.43	31.59	46.00	-14.41
Horizontal	827.493	9.35	21.43	32.00	27.32	36.56	46.00	-9.44
Vertical	45.855	6.88	12.88	32.45	29.73	27.50	40.00	-12.50
Vertical	52.208	6.94	12.60	32.45	29.30	26.85	40.00	-13.15
Vertical	100.934	7.20	9.49	32.47	32.77	27.45	43.50	-16.05
Vertical	161.474	7.49	13.24	32.42	35.34	34.11	43.50	-9.39
Vertical	203.523	7.64	9.38	32.40	31.94	27.02	43.50	-16.48
Vertical	296.184	8.00	12.57	32.36	29.63	28.30	46.00	-17.70

**NOTES:**

1. Quasi-Peak detector is used except for others stated.
2. All measurements were made at 10 meters.
3. Negative value in the margin column shows emission below limit.



Mode: c

**Radiated Emissions**

Polarization	Frequency (MHz)	Cable_Loss (dB)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Reading at 10m (dB $\mu$ V)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	42.302	6.84	13.12	32.46	27.85	25.81	40.00	-14.19
Horizontal	164.908	7.50	12.91	32.42	28.09	26.54	43.50	-16.96
Horizontal	241.676	7.80	11.10	32.38	27.12	24.10	46.00	-21.90
Horizontal	350.477	8.17	13.85	32.35	27.40	27.53	46.00	-18.47
Horizontal	614.214	8.91	19.00	32.36	27.64	33.65	46.00	-12.35
Horizontal	787.851	9.27	21.15	32.18	27.20	35.90	46.00	-10.10
Vertical	45.058	6.87	12.90	32.46	29.39	27.16	40.00	-12.84
Vertical	55.609	6.97	12.33	32.45	29.81	27.12	40.00	-12.88
Vertical	101.289	7.20	9.52	32.47	33.28	27.99	43.50	-15.51
Vertical	157.007	7.47	13.40	32.42	33.05	31.96	43.50	-11.54
Vertical	191.745	7.59	9.70	32.40	33.21	28.56	43.50	-14.94
Vertical	325.596	8.10	13.38	32.35	27.35	26.94	46.00	-19.06

**NOTES:**

1. Quasi-Peak detector is used except for others stated.
2. All measurements were made at 10 meters.
3. Negative value in the margin column shows emission below limit.



## **7 Photographs**

Please refer to attached "EUT Photos and Test setups"

- End of the Report -