

# TEST REPORT

**Application No.:** SZEM1907016976CR  
**Applicant:** LG Electronics USA, Inc.  
**Address of Applicant:** 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632  
**Manufacturer:** Huaqin Telecom Technology Co., Ltd.  
**Address of Manufacturer:** No.1 Building, No.9 Building, No.399, Keyuan Road, Zhangjiang Hi-tech Park, Shanghai, P.R. China  
**Factory:** Dong Guan Huabel Electronic Technology Co., Ltd  
**Address of Factory:** No.9 Industrial Northern Road, National High-Tech Industrial Development Zone, SongShan Lake, Dong Guan

**Equipment Under Test (EUT):**

**EUT Name:** Mobile Handset  
**Model No.:** LM-X430EMW  
**FCC ID:** ZNFX430EMW  
**Trade mark:** LG  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2019-07-31  
**Date of Test:** 2019-08-01 to 2019-08-05  
**Date of Issue:** 2019-08-07

<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



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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2019-08-07		Original

<b>Authorized for issue by:</b>			
			
		<hr/> <b>Damon Su /Project Engineer</b>	
			
		<hr/> <b>Eric Fu /Reviewer</b>	



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## 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
Radiated Emissions (above 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:	DC 3.82V from internal rechargeable battery or from AC/DC adapter Model No.: MCS-V01WR AC Input: 100-240V 50/60Hz 0.2A DC Output: DC 5V 1.2A
Cable:	USB cable: 100cm shielded Earphone cable: 115cm unshielded

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	ASUS	T430u	REF.No.SEA1800
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.5dB (30MHz-1GHz)
		± 4.8dB (1GHz-6GHz)
3	Temperature test	± 1 °C
4	Humidity test	± 3%



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#### 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.

- **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 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	2019-06-13	2024-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2019-09-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna(1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11



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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	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03



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## 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



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**6.1.1 E.U.T. Operation**

Operating Environment:

Temperature: 21 °C Humidity: 57.1 % RH Atmospheric Pressure: 1005 mbar

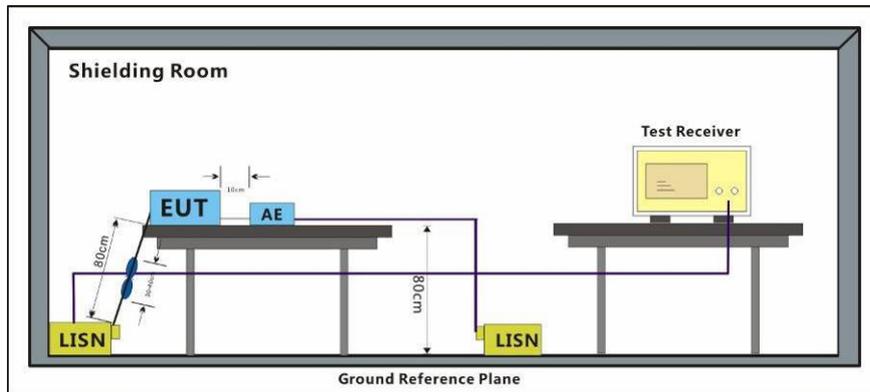
Pretest these modes to find the worst case:

- b: Transfer data between the EUT and the PC+USB cable
- c: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+earphone1+battery+adapter
- d: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+earphone+battery+adapter
- e: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)+earphone+battery+adapter
- f: GSM 850+BT+WLAN+NFC+GPS Rx+earphone+battery+adapter

The worst case for final test:

- b: Transfer data between the EUT and the PC+USB cable
- c: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+earphone1+battery+adapter
- d: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+earphone+battery+adapter
- e: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)+earphone+battery+adapter
- f: GSM 850+BT+WLAN+NFC+GPS Rx+earphone+battery+adapter

**6.1.2 Test Setup Diagram**



**6.1.3 Measurement Data**

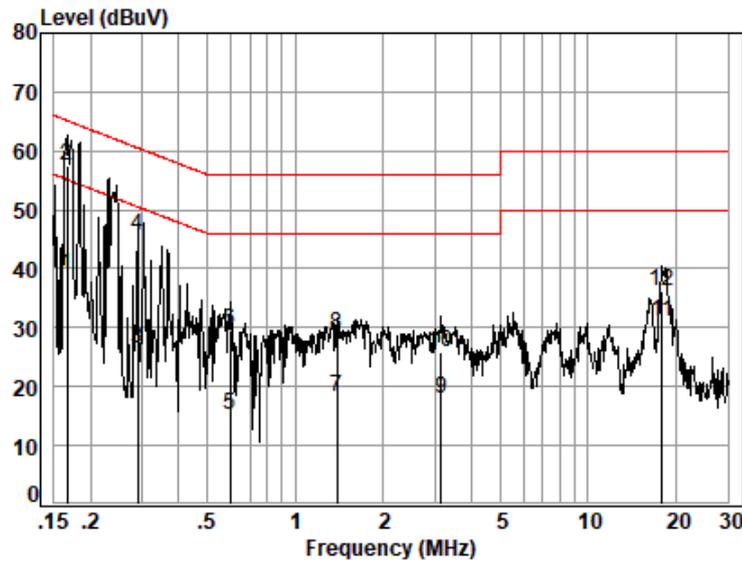
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Mode:b; Line:Live Line



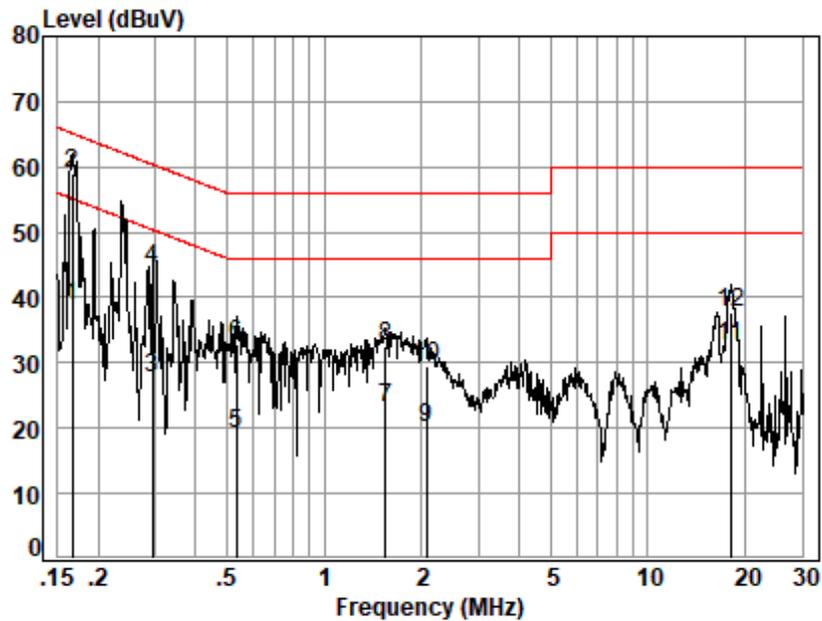
Site : Shielding Room  
 Condition: Line  
 Job No. : 16976CR  
 Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.17	0.01	9.66	29.11	55.12	-16.34	Average
2	0.17	0.01	9.66	47.76	65.12	-7.69	QP
3	0.29	0.04	9.67	16.73	50.54	-24.10	Average
4	0.29	0.04	9.67	35.86	60.54	-14.97	QP
5	0.60	0.07	9.67	5.38	46.00	-30.88	Average
6	0.60	0.07	9.67	19.77	56.00	-26.49	QP
7	1.39	0.12	9.73	8.39	46.00	-27.76	Average
8	1.39	0.12	9.73	19.18	56.00	-26.97	QP
9	3.16	0.16	9.71	8.06	46.00	-28.07	Average
10	3.16	0.16	9.71	15.90	56.00	-30.23	QP
11	17.94	0.23	10.17	20.49	50.00	-19.11	Average
12	17.94	0.23	10.17	25.87	60.00	-23.73	QP



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Mode:b; Line:Neutral Line



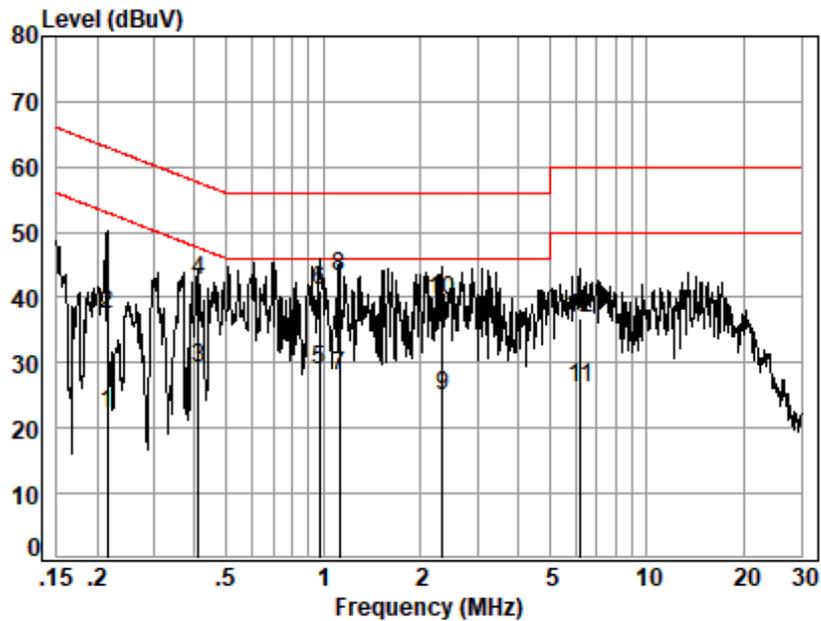
Site : Shielding Room  
 Condition: Neutral  
 Job No. : 16976CR  
 Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1659	0.01	9.64	28.83	38.48	55.16	-16.68	Average
2	0.1659	0.01	9.64	49.39	59.04	65.16	-6.12	QP
3	0.2940	0.04	9.64	17.92	27.60	50.41	-22.81	Average
4	0.2940	0.04	9.64	34.62	44.30	60.41	-16.11	QP
5	0.5350	0.06	9.64	9.40	19.10	46.00	-26.90	Average
6	0.5350	0.06	9.64	23.19	32.89	56.00	-23.11	QP
7	1.5436	0.13	9.70	13.25	23.08	46.00	-22.92	Average
8	1.5436	0.13	9.70	22.65	32.48	56.00	-23.52	QP
9	2.0659	0.16	9.69	10.14	19.99	46.00	-26.01	Average
10	2.0659	0.16	9.69	19.60	29.45	56.00	-26.55	QP
11	18.0394	0.23	10.20	22.25	32.68	50.00	-17.32	Average
12	18.0394	0.23	10.20	27.24	37.67	60.00	-22.33	QP



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Mode:c; Line:Live Line



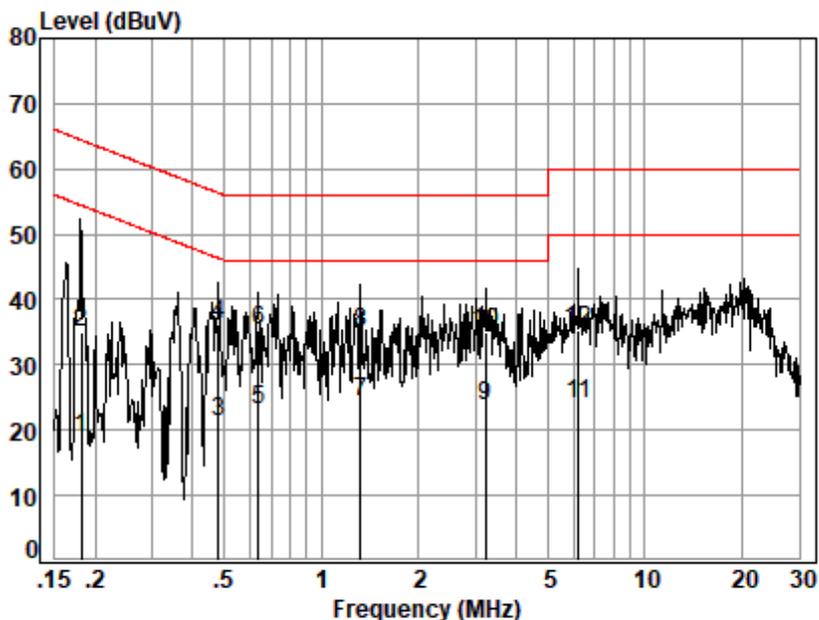
Site : Shielding Room  
 Condition: Line  
 Job No. : 16976CR  
 Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2151	0.03	9.66	12.54	22.23	53.01	-30.78	Average
2	0.2151	0.03	9.66	27.68	37.37	63.01	-25.64	QP
3	0.4105	0.05	9.67	19.44	29.16	47.64	-18.48	Average
4	0.4105	0.05	9.67	32.78	42.50	57.64	-15.14	QP
5	0.9735	0.09	9.74	18.99	28.82	46.00	-17.18	Average
6	0.9735	0.09	9.74	31.11	40.94	56.00	-15.06	QP
7	1.1233	0.10	9.73	18.21	28.04	46.00	-17.96	Average
8	1.1233	0.10	9.73	33.44	43.27	56.00	-12.73	QP
9	2.3336	0.16	9.71	15.12	24.99	46.00	-21.01	Average
10	2.3336	0.16	9.71	29.60	39.47	56.00	-16.53	QP
11	6.2520	0.17	9.77	16.30	26.24	50.00	-23.76	Average
12	6.2520	0.17	9.77	26.95	36.89	60.00	-23.11	QP



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Mode:c; Line:Neutral Line



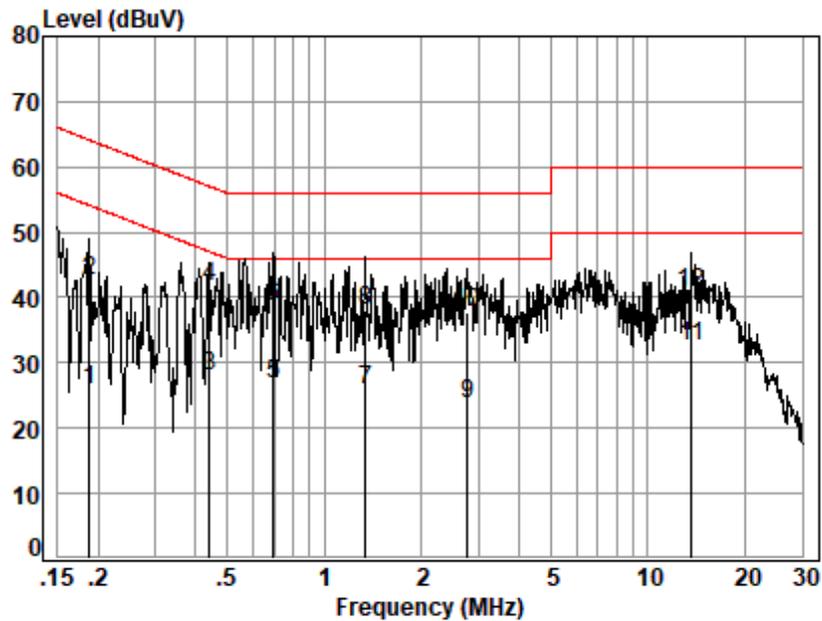
Site : Shielding Room  
 Condition: Neutral  
 Job No. : 16976CR  
 Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1815	0.02	9.64	9.14	18.80	54.42	-35.62	Average
2	0.1815	0.02	9.64	25.43	35.09	64.42	-29.33	QP
3	0.4812	0.06	9.64	11.53	21.23	46.32	-25.09	Average
4	0.4812	0.06	9.64	26.48	36.18	56.32	-20.14	QP
5	0.6372	0.07	9.64	13.29	23.00	46.00	-23.00	Average
6	0.6372	0.07	9.64	25.45	35.16	56.00	-20.84	QP
7	1.3238	0.12	9.70	14.39	24.21	46.00	-21.79	Average
8	1.3238	0.12	9.70	25.03	34.85	56.00	-21.15	QP
9	3.2239	0.16	9.68	13.99	23.83	46.00	-22.17	Average
10	3.2239	0.16	9.68	25.18	35.02	56.00	-20.98	QP
11	6.2189	0.17	9.74	13.99	23.90	50.00	-26.10	Average
12	6.2189	0.17	9.74	25.28	35.19	60.00	-24.81	QP



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Mode:d; Line:Live Line



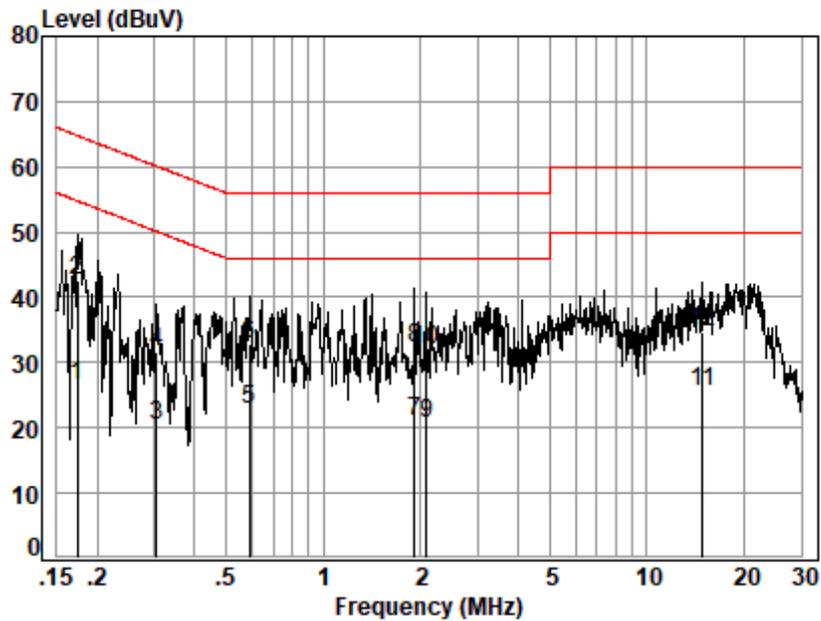
Site : Shielding Room  
 Condition: Line  
 Job No. : 16976CR  
 Test mode: d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1884	0.02	9.66	16.31	25.99	54.11	-28.12	Average
2	0.1884	0.02	9.66	32.99	42.67	64.11	-21.44	QP
3	0.4421	0.06	9.67	18.27	28.00	47.02	-19.02	Average
4	0.4421	0.06	9.67	32.04	41.77	57.02	-15.25	QP
5	0.6973	0.07	9.68	17.04	26.79	46.00	-19.21	Average
6	0.6973	0.07	9.68	28.97	38.72	56.00	-17.28	QP
7	1.3379	0.12	9.73	16.10	25.95	46.00	-20.05	Average
8	1.3379	0.12	9.73	28.07	37.92	56.00	-18.08	QP
9	2.7794	0.16	9.71	13.81	23.68	46.00	-22.32	Average
10	2.7794	0.16	9.71	27.99	37.86	56.00	-18.14	QP
11	13.6228	0.20	10.23	22.19	32.62	50.00	-17.38	Average
12	13.6228	0.20	10.23	30.41	40.84	60.00	-19.16	QP



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Mode:d; Line:Neutral Line



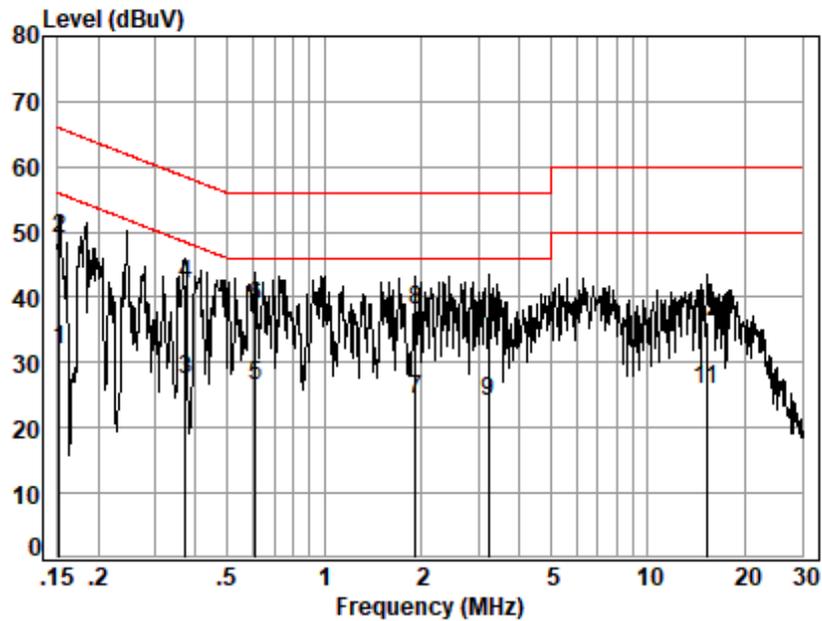
Site : Shielding Room  
 Condition: Neutral  
 Job No. : 16976CR  
 Test mode: d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1740	0.02	9.64	16.85	26.51	54.77	-28.26	Average
2	0.1740	0.02	9.64	32.80	42.46	64.77	-22.31	QP
3	0.3051	0.04	9.64	10.61	20.29	50.10	-29.81	Average
4	0.3051	0.04	9.64	22.00	31.68	60.10	-28.42	QP
5	0.5916	0.07	9.64	12.97	22.68	46.00	-23.32	Average
6	0.5916	0.07	9.64	23.05	32.76	56.00	-23.24	QP
7	1.9182	0.16	9.69	11.04	20.89	46.00	-25.11	Average
8	1.9182	0.16	9.69	22.46	32.31	56.00	-23.69	QP
9	2.0768	0.16	9.69	10.83	20.68	46.00	-25.32	Average
10	2.0768	0.16	9.69	22.05	31.90	56.00	-24.10	QP
11	14.9068	0.21	10.37	14.90	25.48	50.00	-24.52	Average
12	14.9068	0.21	10.37	23.99	34.57	60.00	-25.43	QP



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Mode:e; Line:Live Line



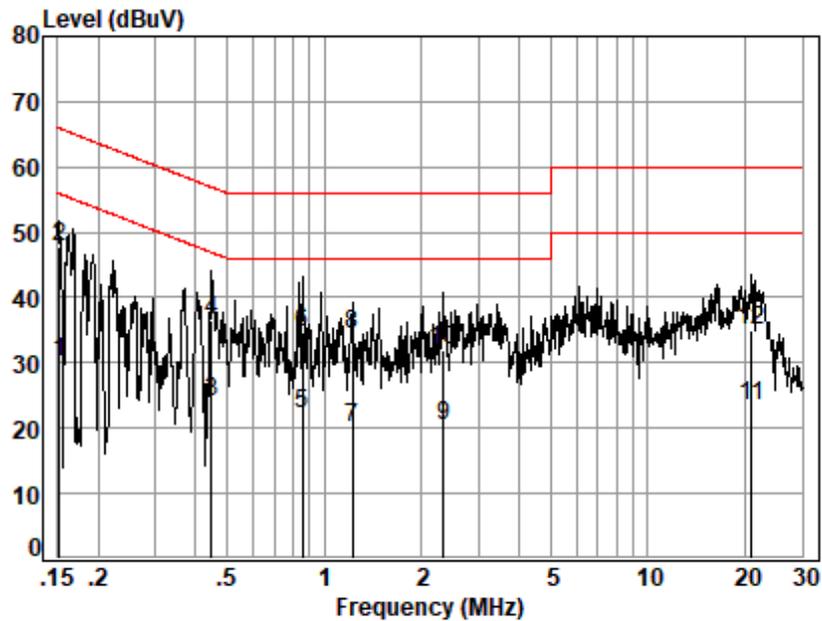
Site : Shielding Room  
 Condition: Line  
 Job No. : 16976CR  
 Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.01	9.66	22.39	32.06	55.91	-23.85	Average
2	0.1516	0.01	9.66	39.42	49.09	65.91	-16.82	QP
3	0.3712	0.05	9.67	17.57	27.29	48.47	-21.18	Average
4	0.3712	0.05	9.67	32.22	41.94	58.47	-16.53	QP
5	0.6140	0.07	9.67	16.67	26.41	46.00	-19.59	Average
6	0.6140	0.07	9.67	28.94	38.68	56.00	-17.32	QP
7	1.9182	0.16	9.72	14.48	24.36	46.00	-21.64	Average
8	1.9182	0.16	9.72	28.08	37.96	56.00	-18.04	QP
9	3.2239	0.16	9.71	14.22	24.09	46.00	-21.91	Average
10	3.2239	0.16	9.71	25.58	35.45	56.00	-20.55	QP
11	15.1457	0.21	10.34	15.23	25.78	50.00	-24.22	Average
12	15.1457	0.21	10.34	25.60	36.15	60.00	-23.85	QP



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Mode:e; Line:Neutral Line



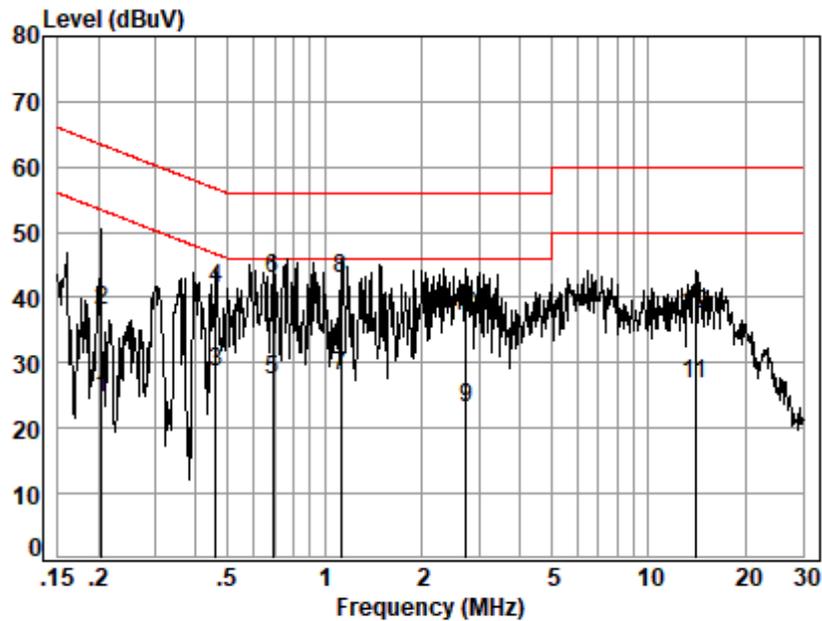
Site : Shielding Room  
 Condition: Neutral  
 Job No. : 16976CR  
 Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.01	9.63	20.43	30.07	55.91	-25.84	Average
2	0.1516	0.01	9.63	38.22	47.86	65.91	-18.05	QP
3	0.4492	0.06	9.64	14.32	24.02	46.89	-22.87	Average
4	0.4492	0.06	9.64	26.79	36.49	56.89	-20.40	QP
5	0.8573	0.08	9.71	12.36	22.15	46.00	-23.85	Average
6	0.8573	0.08	9.71	24.85	34.64	56.00	-21.36	QP
7	1.2226	0.11	9.70	10.21	20.02	46.00	-25.98	Average
8	1.2226	0.11	9.70	24.68	34.49	56.00	-21.51	QP
9	2.3336	0.16	9.68	10.65	20.49	46.00	-25.51	Average
10	2.3336	0.16	9.68	22.24	32.08	56.00	-23.92	QP
11	20.9243	0.24	10.14	12.92	23.30	50.00	-26.70	Average
12	20.9243	0.24	10.14	24.58	34.96	60.00	-25.04	QP



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Mode:f; Line:Live Line



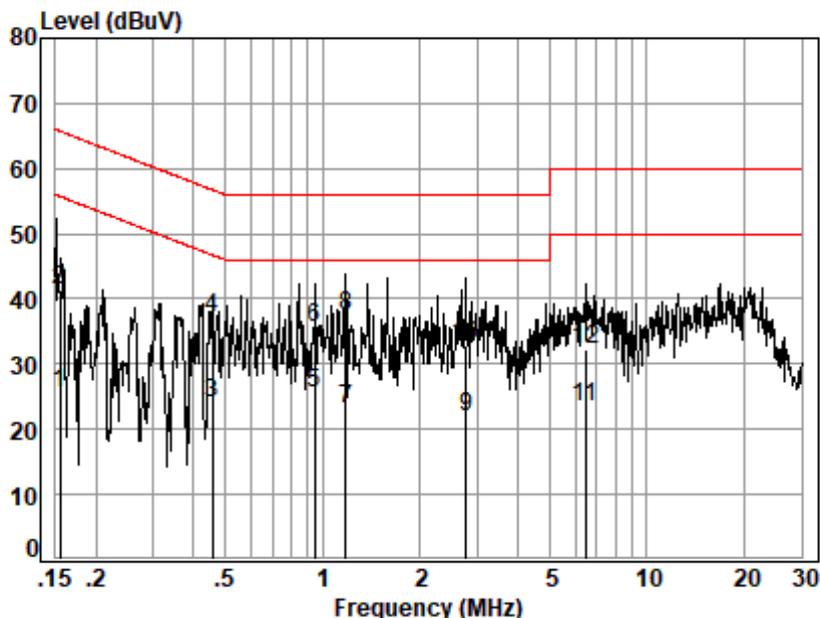
Site : Shielding Room  
 Condition: Line  
 Job No. : 16976CR  
 Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2040	0.02	9.66	14.85	24.53	53.45	-28.92	Average
2	0.2040	0.02	9.66	28.47	38.15	63.45	-25.30	QP
3	0.4612	0.06	9.67	18.82	28.55	46.67	-18.12	Average
4	0.4612	0.06	9.67	31.75	41.48	56.67	-15.19	QP
5	0.6936	0.07	9.68	17.59	27.34	46.00	-18.66	Average
6	0.6936	0.07	9.68	33.08	42.83	56.00	-13.17	QP
7	1.1233	0.10	9.73	18.28	28.11	46.00	-17.89	Average
8	1.1233	0.10	9.73	33.14	42.97	56.00	-13.03	QP
9	2.7356	0.16	9.71	13.20	23.07	46.00	-22.93	Average
10	2.7356	0.16	9.71	27.38	37.25	56.00	-18.75	QP
11	13.9886	0.20	10.26	16.36	26.82	50.00	-23.18	Average
12	13.9886	0.20	10.26	26.89	37.35	60.00	-22.65	QP



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Mode:f; Line:Neutral Line



Site : Shielding Room  
 Condition: Neutral  
 Job No. : 16976CR  
 Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1548	0.01	9.63	15.98	25.62	55.74	-30.12	Average
2	0.1548	0.01	9.63	31.78	41.42	65.74	-24.32	QP
3	0.4588	0.06	9.64	14.42	24.12	46.71	-22.59	Average
4	0.4588	0.06	9.64	27.48	37.18	56.71	-19.53	QP
5	0.9481	0.09	9.71	15.89	25.69	46.00	-20.31	Average
6	0.9481	0.09	9.71	25.69	35.49	56.00	-20.51	QP
7	1.1781	0.11	9.70	13.30	23.11	46.00	-22.89	Average
8	1.1781	0.11	9.70	27.73	37.54	56.00	-18.46	QP
9	2.7648	0.16	9.68	11.94	21.78	46.00	-24.22	Average
10	2.7648	0.16	9.68	23.04	32.88	56.00	-23.12	QP
11	6.4539	0.17	9.75	13.63	23.55	50.00	-26.45	Average
12	6.4539	0.17	9.75	22.25	32.17	60.00	-27.83	QP



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## 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: 3m  
 Limit:  
 30MHz -88MHz 40.0(dBμV/m) quasi-peak  
 88MHz-216MHz 43.5(dBμV/m) quasi-peak  
 216MHz-960MHz 46.0(dBμV/m) quasi-peak  
 960MHz-1000MHz 54.0(dBμV/m) quasi-peak  
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz



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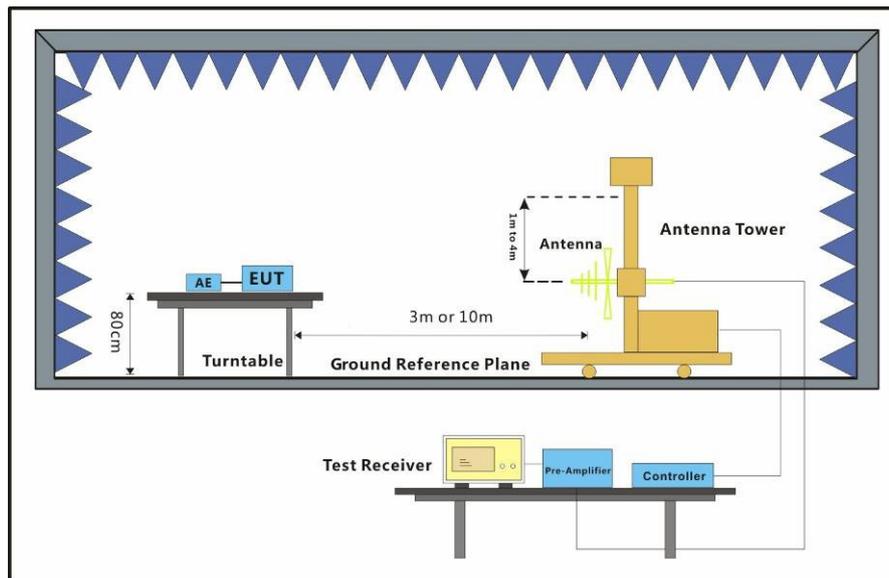
### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

- Pretest these modes to find the worst case:
- b: Transfer data between the EUT and the PC+USB cable
  - c: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+earphone1+battery+adapter
  - d: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+earphone+battery+adapter
  - e: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)+earphone+battery+adapter
  - f: GSM 850+BT+WLAN+NFC+GPS Rx+earphone+battery+adapter
- The worst case for final test:
- b: Transfer data between the EUT and the PC+USB cable
  - d: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+earphone+battery+adapter
  - f: GSM 850+BT+WLAN+NFC+GPS Rx+earphone+battery+adapter

### 6.2.2 Test Setup Diagram



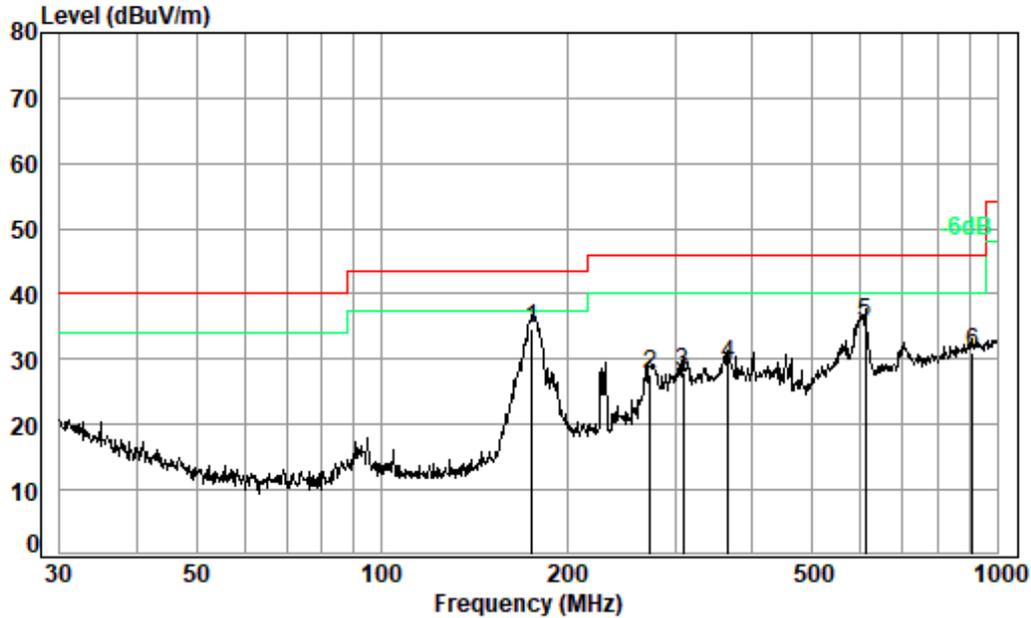
### 6.2.3 Measurement Data

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.



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Mode:b; Polarization:Horizontal



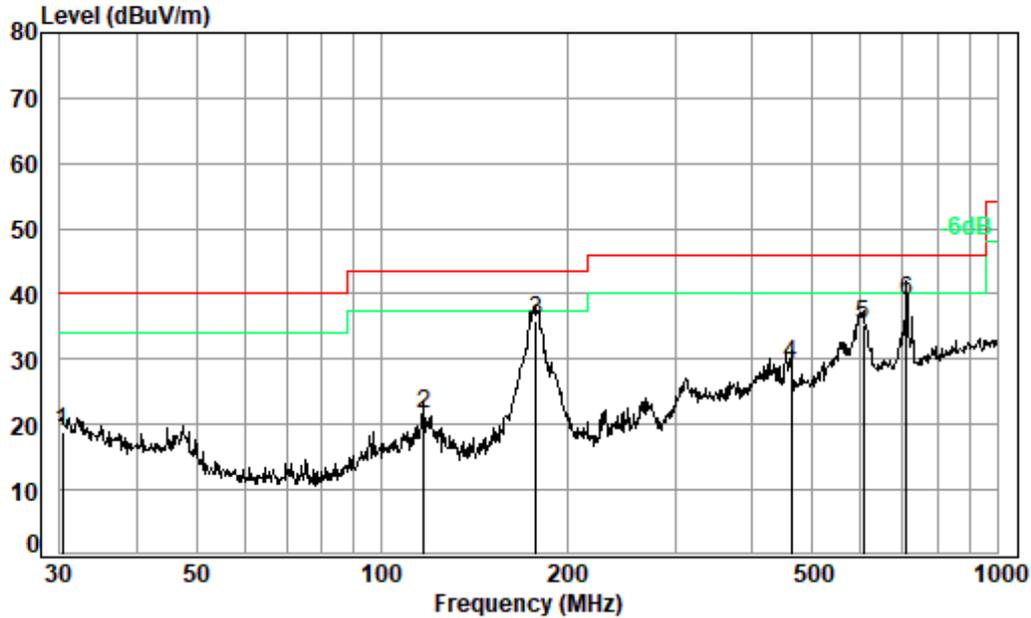
Condition: 3m HORIZONTAL  
 Job No. : 16976CR  
 Test mode: b

		Cable	Ant	Preamp	Read	Limit	Over
	Freq	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	pp	1.36	15.82	27.26	44.74	34.66	-8.84
2		1.78	18.90	26.95	34.00	27.73	-18.27
3		1.93	19.88	26.94	33.26	28.13	-17.87
4		2.10	21.52	27.25	32.92	29.29	-16.71
5		2.72	26.74	28.14	34.35	35.67	-10.33
6		3.61	29.87	27.24	24.84	31.08	-14.92



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Mode:b; Polarization:Vertical



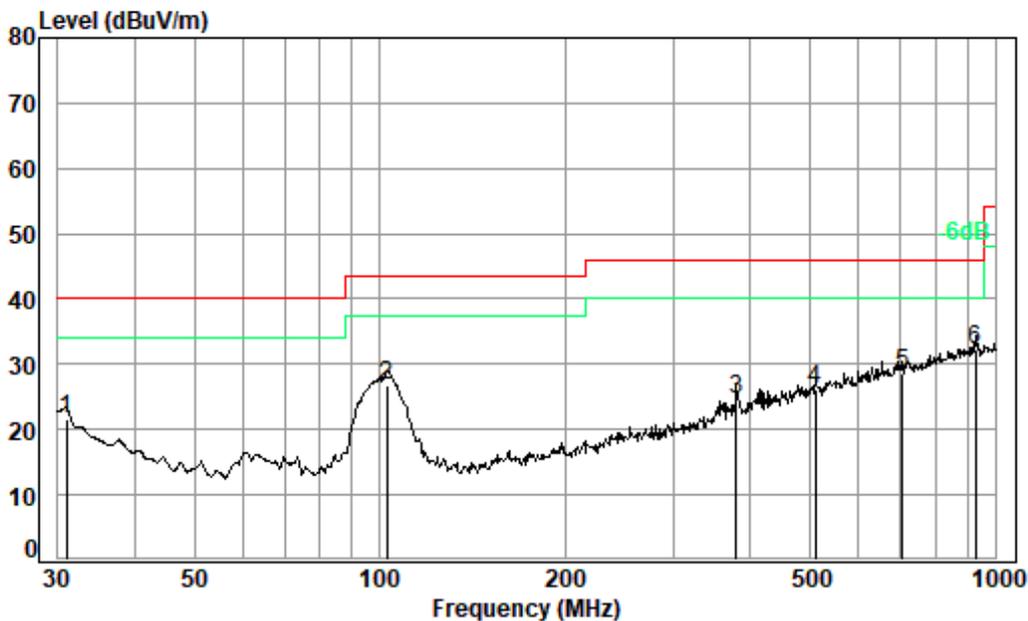
Condition: 3m VERTICAL  
 Job No. : 16976CR  
 Test mode: b

	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	30.32	0.60	22.32	27.73	23.80	18.99	40.00	-21.01
2	116.95	1.25	13.23	27.53	34.54	21.49	43.50	-22.01
3	178.13	1.37	15.86	27.25	45.90	35.88	43.50	-7.62
4	462.35	2.46	23.83	27.69	30.68	29.28	46.00	-16.72
5	605.66	2.71	26.68	28.16	34.03	35.26	46.00	-10.74
6 pp	711.67	2.94	27.97	27.90	36.03	39.04	46.00	-6.96



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Mode:d; Polarization:Horizontal



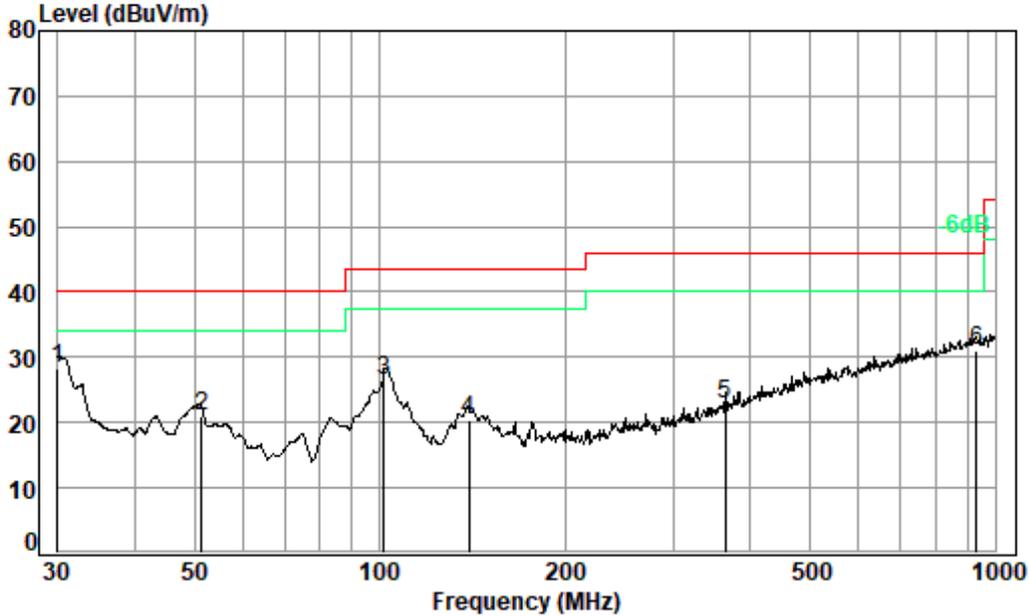
Condition: 3m HORIZONTAL  
 Job No. : 16976CR  
 Test mode: d

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		
1	30.96	0.60	21.95	27.73	26.65	21.47	40.00	-18.53
2	102.72	1.21	13.87	27.62	39.43	26.89	43.50	-16.61
3	379.91	2.15	21.90	27.33	27.92	24.64	46.00	-21.36
4	510.04	2.61	24.82	27.87	26.53	26.09	46.00	-19.91
5	706.70	2.92	27.94	27.91	25.55	28.50	46.00	-17.50
6 pp	929.01	3.63	29.95	27.18	25.98	32.38	46.00	-13.62



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Mode:d; Polarization:Vertical



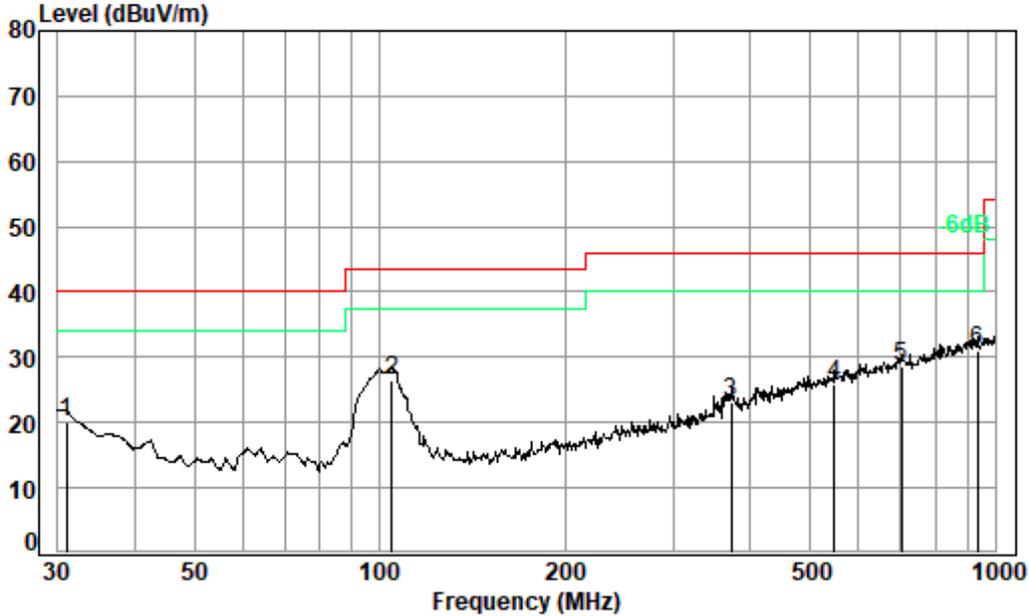
Condition: 3m VERTICAL  
 Job No. : 16976CR  
 Test mode: d

	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 pp	30.00	0.60	22.50	27.73	32.77	28.14	40.00	-11.86
2	51.30	0.80	14.06	27.69	33.76	20.93	40.00	-19.07
3	101.64	1.21	13.92	27.63	38.85	26.35	43.50	-17.15
4	139.85	1.30	13.70	27.41	32.80	20.39	43.50	-23.11
5	364.26	2.10	21.49	27.25	26.35	22.69	46.00	-23.31
6	932.27	3.63	29.97	27.16	24.61	31.05	46.00	-14.95



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Mode:f; Polarization:Horizontal



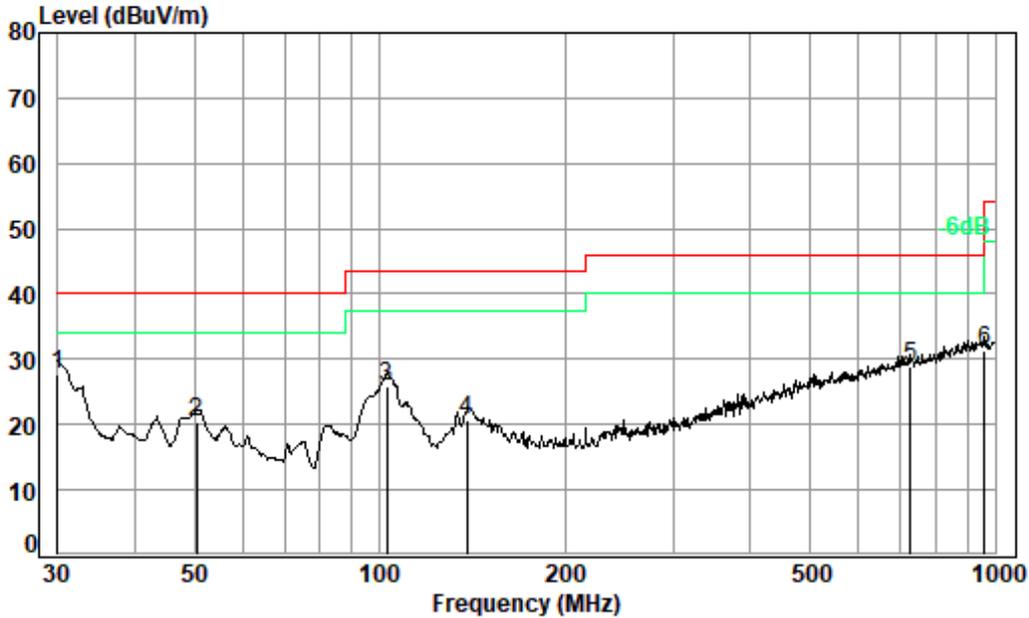
Condition: 3m HORIZONTAL  
 Job No. : 16976CR  
 Test mode: f

	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	30.96	0.60	21.95	27.73	25.24	20.06	40.00	-19.94
2	104.54	1.21	13.78	27.61	39.17	26.55	43.50	-16.95
3	372.00	2.12	21.69	27.29	26.66	23.18	46.00	-22.82
4	547.10	2.65	25.59	28.00	25.67	25.91	46.00	-20.09
5	704.23	2.92	27.93	27.92	25.63	28.56	46.00	-17.44
6 pp	935.55	3.64	29.98	27.15	24.68	31.15	46.00	-14.85



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Mode:f; Polarization:Vertical



Condition: 3m VERTICAL  
 Job No. : 16976CR  
 Test mode: f

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		
1	pp	30.00	0.60	22.50	27.73	32.29	27.66	40.00	-12.34
2		50.41	0.80	14.16	27.69	33.06	20.33	40.00	-19.67
3		102.72	1.21	13.87	27.62	38.51	25.97	43.50	-17.53
4		138.87	1.29	13.67	27.42	33.14	20.68	43.50	-22.82
5		729.36	2.99	28.08	27.86	25.58	28.79	46.00	-17.21
6		962.16	3.66	30.12	27.05	24.63	31.36	54.00	-22.64



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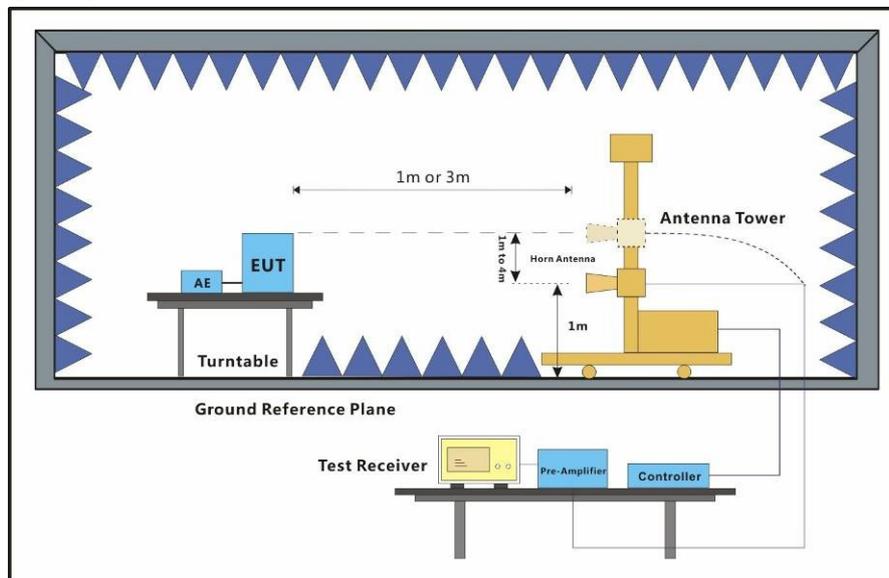
### 6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B  
 Test Method: ANSI C63.4:2014  
 Frequency Range: Above 1GHz  
 Measurement Distance: 3m  
 Limit:  
 Above 1GHz 74(dB $\mu$ V/m) peak, 54(dB $\mu$ V/m) average  
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 100M to18000MHz

#### 6.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.2 °C Humidity: 59.3 % RH Atmospheric Pressure: 1005 mbar  
 Pretest these modes to find the worst case:  
 b: Transfer data between the EUT and the PC+USB cable  
 c: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card) +earphone1+battery+adapter  
 d: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front) +earphone+battery+adapter  
 e: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back) +earphone+battery+adapter  
 f: GSM 850+BT+WLAN+NFC+GPS Rx+earphone+battery+adapter  
 The worst case for final test: b: Transfer data between the EUT and the PC+USB cable

#### 6.3.2 Test Setup Diagram



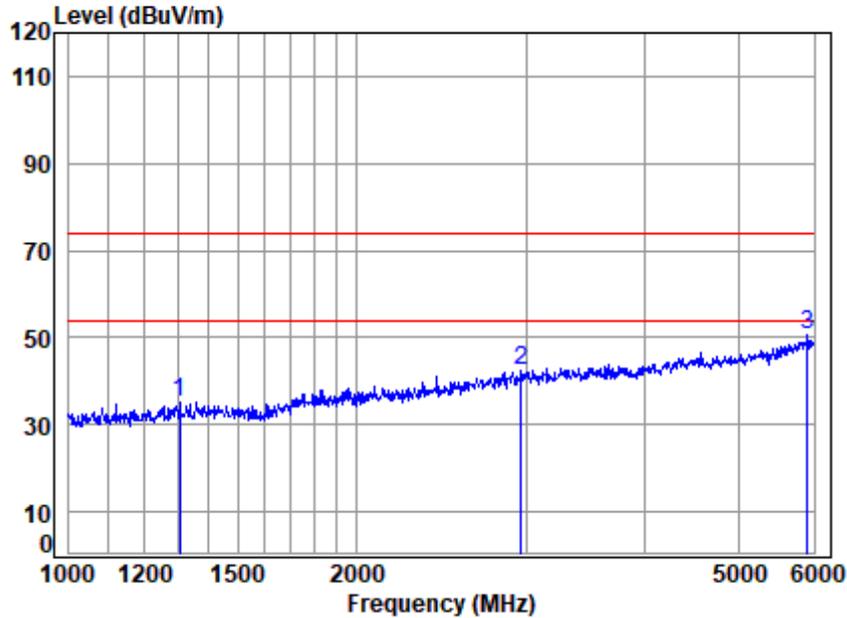
#### 6.3.3 Measurement Data

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



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Mode:b; Polarization:Horizontal



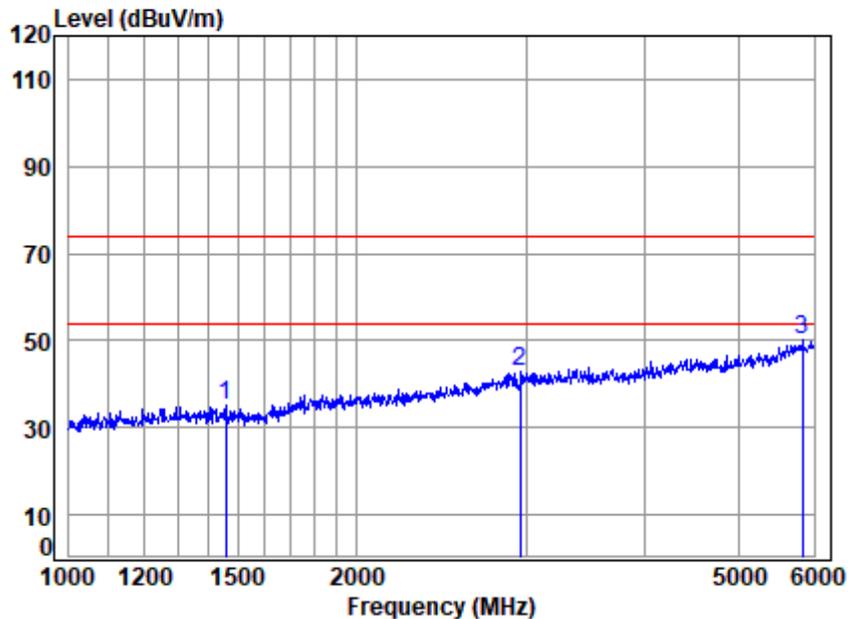
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 16976CR  
 Mode : b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1303.666	4.81	25.04	40.57	45.80	35.08	74.00	-38.92	Peak
2	2967.138	5.96	30.77	41.39	47.28	42.62	74.00	-31.38	Peak
3	5904.021	10.25	35.01	42.92	48.47	50.81	74.00	-23.19	Peak



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Mode:b; Polarization:Vertical



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 16976CR  
 Mode : b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1459.452	5.35	25.65	40.68	44.73	35.05	74.00	-38.95	Peak
2	2961.827	5.95	30.75	41.39	47.80	43.11	74.00	-30.89	Peak
3	5830.433	10.00	34.94	42.98	48.23	50.19	74.00	-23.81	Peak



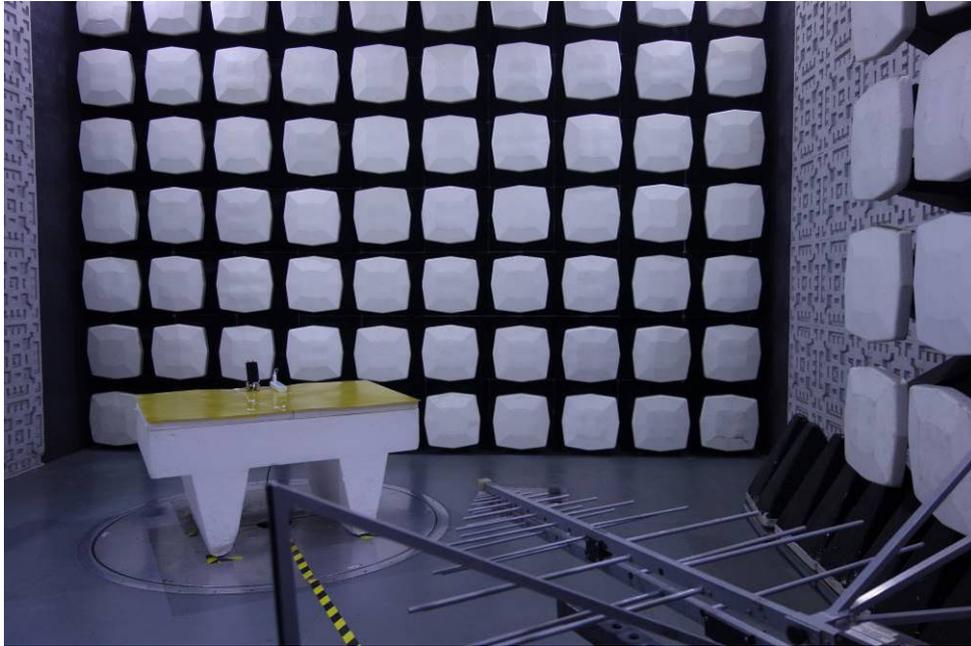
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## 7 Photographs

### 7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup

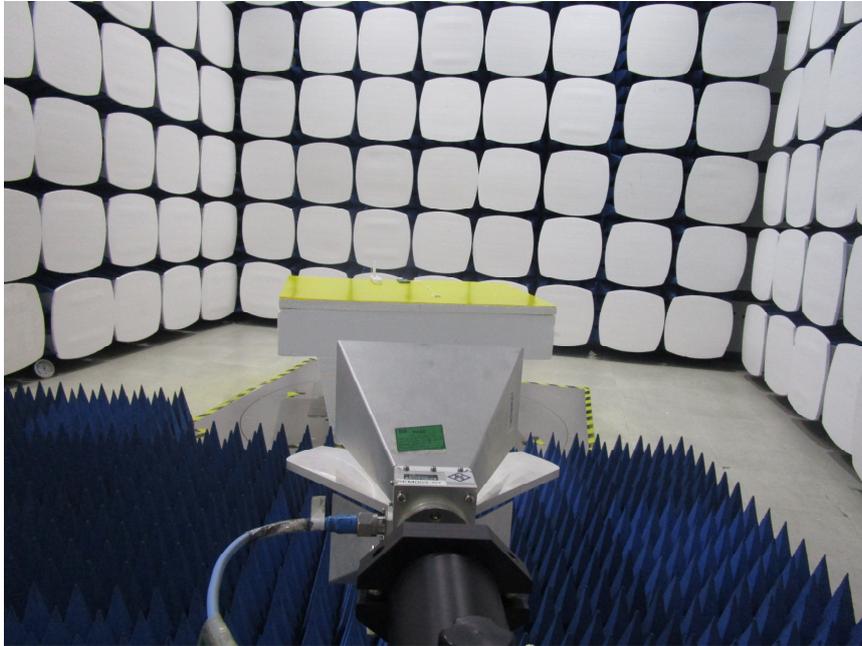


**7.2 Radiated Emissions (30MHz-1GHz) Test Setup**



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### 7.3 Radiated Emissions (Above 1GHz) Test Setup



### 7.4 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos.

- End of the Report -

