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Shenzhen Branch**

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Report No.: SZEM170800926005  
Page: 1 of 23

# TEST REPORT

**Application No.:** SZEM1708009260RG  
**Applicant:** Huawei Technologies Co., Ltd.  
**Address of Applicant:** Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C  
**Manufacturer:** Huawei Technologies Co., Ltd.  
**Address of Manufacturer:** Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C  
**Factory:** DBG TECHNOLOGY CO., LTD  
**Address of Factory:** No.5, Yongda Road, Xiangshui River Industrial Area, Daya Bay, Huizhou, Guangdong, China

**Equipment Under Test (EUT):**

**EUT Name:** HUAWEI MediaPad M3 Lite 10 wp  
**Model No.:** HDN-W09  
**Trade mark:** HUAWEI  
**FCC ID:** QISHDN-W09  
**Standard(s) :** 47 CFR Part 15,Subpart B:2016  
**Date of Receipt:** 2017-09-08  
**Date of Test:** 2017-09-11 to 2017-09-14  
**Date of Issue:** 2017-10-24

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



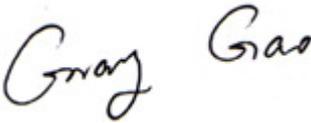
Jack Zhang  
EMC Laboratory Manager

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.

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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2017-10-24		Original

Authorized for issue by:				
				
		<hr/> <b>Gray Gao /Project Engineer</b>		
				
		<hr/> <b>Eric Fu /Reviewer</b>		



## 2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B:2016	ANSI C63.4	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B:2016	ANSI C63.4	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B:2016	ANSI C63.4	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: AC input: 100-240V 50/60Hz 0.5A  
DC output: DC 5V, 2A or 9V, 2A  
Cable: USB cable: 100cm shielded.

### **4.2 Description of Support Units**

The EUT has been tested as an independent unit.



### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction emission	3.45dB (9kHz to 150kHz)
		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%



#### **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 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 –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

<b>Conducted Emissions at Mains Terminals (150kHz-30MHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2018-05-10
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09
LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-13
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2017-04-14	2018-04-13

<b>Radiated Emissions (30MHz-1GHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2017-05-10	2018-05-10
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A
EMI Test Receiver (9kHz-3GHz)	Rohde & Schwarz	ESR	SEM004-03	2017-04-14	2018-04-13
Trilog-Broadband Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-29
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2017-06-05	2018-06-04

<b>Radiated Emissions (above 1GHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A
EXA Spectrum Analyzer	AgilentTechnologie s Inc	N9010A	SEM004-09	2017-06-05	2018-06-04
Horn Antenna(1-18GHz)	Rohde & Schwarz	HF907	SEM003-06	2015-06-14	2018-06-14
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA- 0118-352810	SEM005-05	2016-10-09	2017-10-09



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	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-18

## 6 Emission Test Results

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

Test Requirement:	47 CFR Part 15, Subpart B:2016
Test Method:	ANSI C63.4
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: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1005 mbar

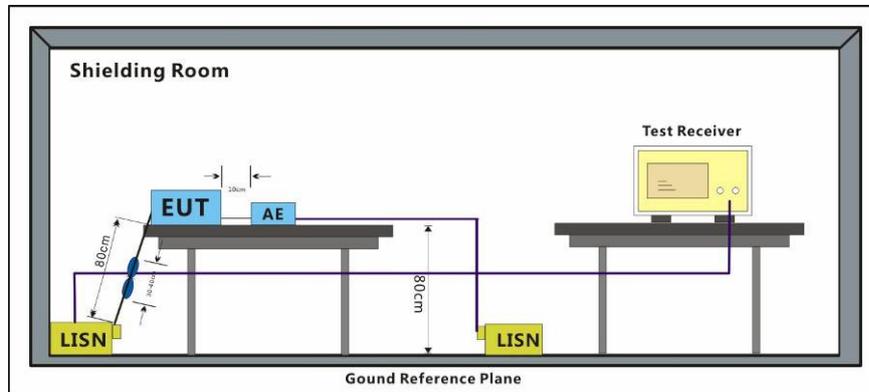
Pretest these mode to find the worst case: a: Telecom Idle + BT+ WLAN + GPS Rx + playing MP4 + earphone + battery + adapter

l: PC mode, keep EUT communication with PC

The worst case for final test: a: Telecom Idle + BT+ WLAN + GPS Rx + playing MP4 + earphone + battery + adapter

l: PC mode, keep EUT communication with PC

#### 6.1.2 Test Setup Diagram

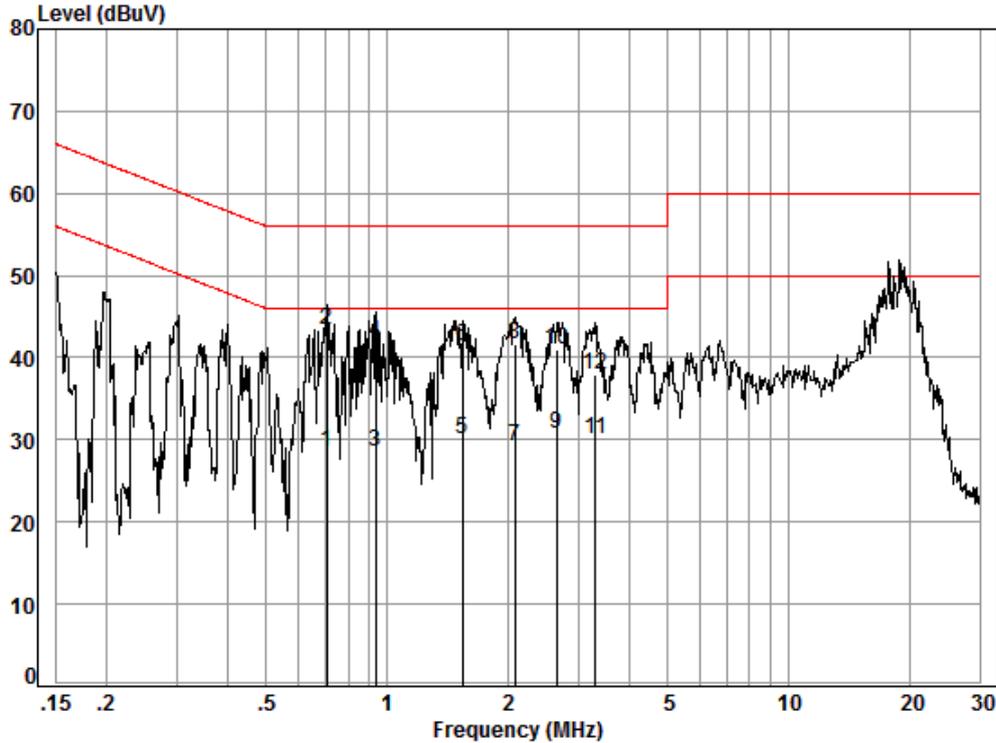


#### 6.1.3 Measurement Data

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

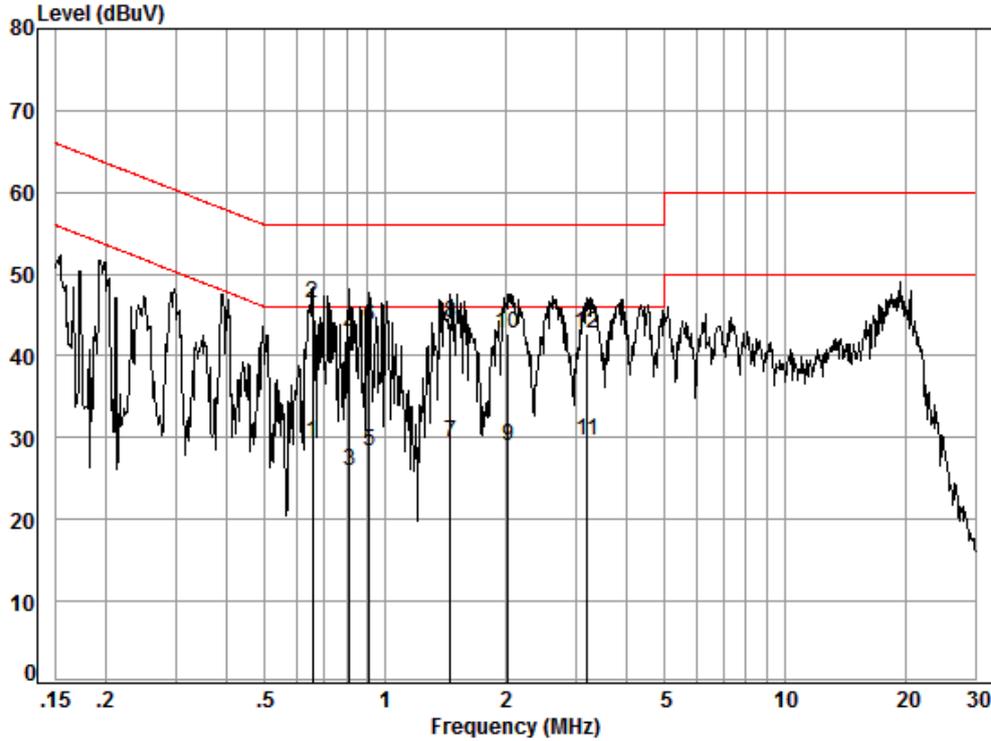


Site : Shielding Room  
Condition: Line  
Job No. : 092608G  
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.71	0.02	9.64	18.80	28.46	46.00	-17.54 Average
2	0.71	0.02	9.64	33.66	43.32	56.00	-12.68 QP
3	0.94	0.02	9.64	18.89	28.55	46.00	-17.45 Average
4	0.94	0.02	9.64	32.15	41.81	56.00	-14.19 QP
5	1.54	0.02	9.65	20.32	29.99	46.00	-16.01 Average
6	1.54	0.02	9.65	31.71	41.38	56.00	-14.62 QP
7	2.09	0.02	9.66	19.44	29.12	46.00	-16.88 Average
8	2.09	0.02	9.66	31.95	41.63	56.00	-14.37 QP
9	2.65	0.02	9.66	21.07	30.75	46.00	-15.25 Average
10	2.65	0.02	9.66	31.32	41.00	56.00	-15.00 QP
11	3.31	0.02	9.68	20.46	30.16	46.00	-15.84 Average
12	3.31	0.02	9.68	28.18	37.88	56.00	-18.12 QP



Mode:a; Line:Neutral Line

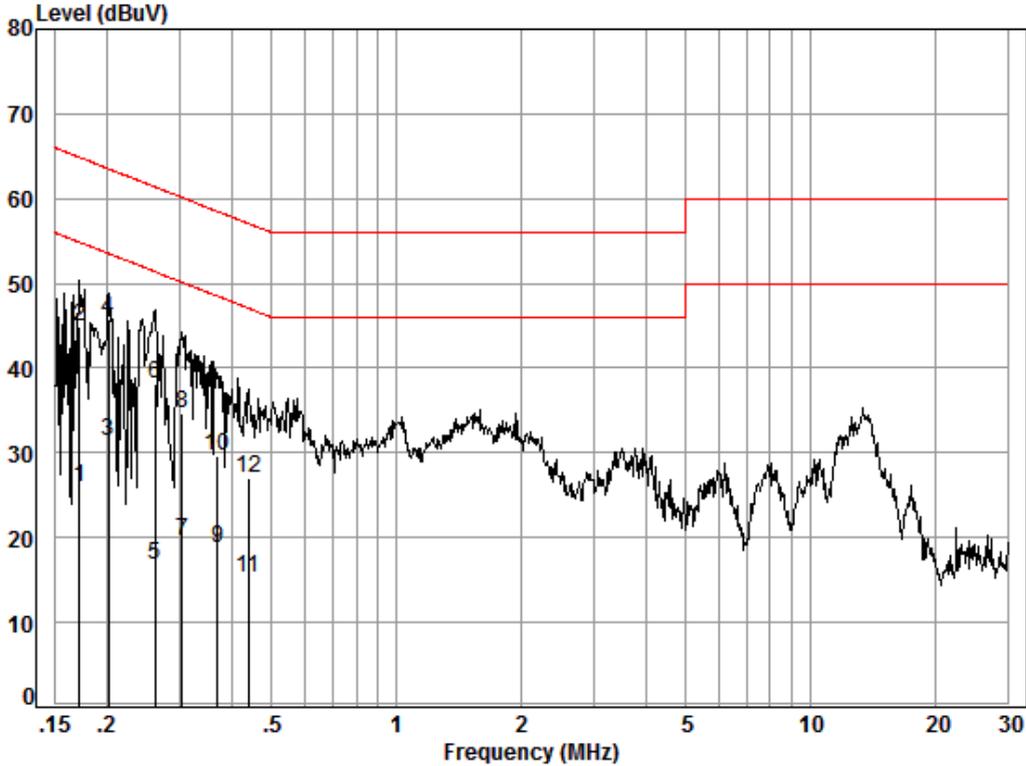


Site : Shielding Room  
Condition: Neutral  
Job No. : 09260RG  
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.66	0.02	9.64	19.78	29.44	46.00	-16.56 Average
2	0.66	0.02	9.64	36.71	46.37	56.00	-9.63 QP
3	0.81	0.02	9.64	16.17	25.83	46.00	-20.17 Average
4	0.81	0.02	9.64	32.76	42.42	56.00	-13.58 QP
5	0.91	0.02	9.64	18.66	28.32	46.00	-17.68 Average
6	0.91	0.02	9.64	33.98	43.64	56.00	-12.36 QP
7	1.46	0.02	9.65	19.73	29.40	46.00	-16.60 Average
8	1.46	0.02	9.65	34.37	44.04	56.00	-11.96 QP
9	2.03	0.02	9.66	19.26	28.94	46.00	-17.06 Average
10	2.03	0.02	9.66	32.99	42.67	56.00	-13.33 QP
11	3.21	0.02	9.67	19.92	29.61	46.00	-16.39 Average
12	3.21	0.02	9.67	33.07	42.76	56.00	-13.24 QP



Mode:l; Line:Live Line

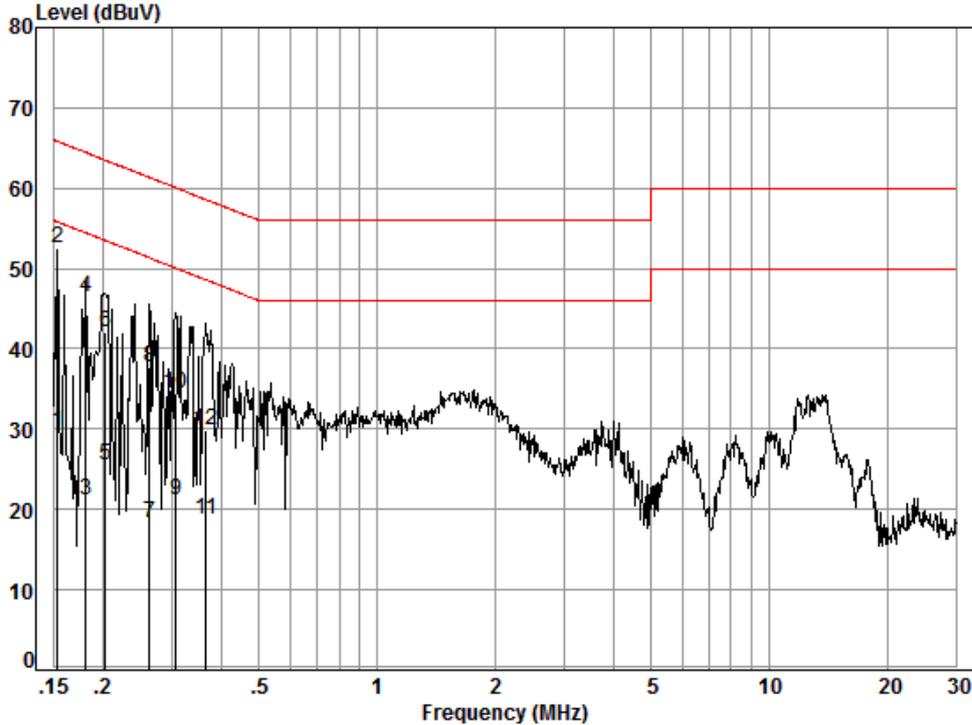


Site : Shielding Room  
Condition: Line  
Job No. : 09260RG  
Test mode: l

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.63	16.30	25.95	54.86	-28.91	Average
2	0.17	0.02	9.63	35.23	44.88	64.86	-19.98	QP
3	0.20	0.02	9.63	21.76	31.41	53.54	-22.13	Average
4	0.20	0.02	9.63	36.07	45.72	63.54	-17.82	QP
5	0.26	0.01	9.63	7.12	16.76	51.38	-34.62	Average
6	0.26	0.01	9.63	28.54	38.18	61.38	-23.20	QP
7	0.30	0.01	9.63	9.98	19.62	50.15	-30.53	Average
8	0.30	0.01	9.63	24.94	34.58	60.15	-25.57	QP
9	0.37	0.01	9.63	9.16	18.80	48.52	-29.72	Average
10	0.37	0.01	9.63	20.03	29.67	58.52	-28.85	QP
11	0.44	0.01	9.63	5.54	15.18	47.07	-31.89	Average
12	0.44	0.01	9.63	17.41	27.05	57.07	-30.02	QP



Mode:I; Line:Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 09260RG  
Test mode: 1

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.02	9.64	20.01	29.67	55.82	-26.15	Average
2	0.15	0.02	9.64	42.87	52.53	65.82	-13.29	QP
3	0.18	0.02	9.63	11.46	21.11	54.46	-33.35	Average
4	0.18	0.02	9.63	36.82	46.47	64.46	-17.99	QP
5	0.20	0.02	9.63	15.75	25.40	53.49	-28.09	Average
6	0.20	0.02	9.63	32.50	42.15	63.49	-21.34	QP
7	0.26	0.01	9.63	8.72	18.36	51.34	-32.98	Average
8	0.26	0.01	9.63	28.08	37.72	61.34	-23.62	QP
9	0.31	0.01	9.63	11.60	21.24	50.06	-28.82	Average
10	0.31	0.01	9.63	24.88	34.52	60.06	-25.54	QP
11	0.37	0.01	9.63	9.17	18.81	48.56	-29.75	Average
12	0.37	0.01	9.63	20.24	29.88	58.56	-28.68	QP

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

Test Requirement:	47 CFR Part 15, Subpart B:2016
Test Method:	ANSI C63.4
Frequency Range:	30MHz to 1GHz
Measurement Distance:	10m
Limit:	
30MHz -88MHz	29.5(dB $\mu$ V/m) quasi-peak
88MHz-216MHz	33.1(dB $\mu$ V/m) quasi-peak
216MHz-960MHz	35.6(dB $\mu$ V/m) quasi-peak
960MHz-1000MHz	43.5(dB $\mu$ V/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

### 6.2.1 E.U.T. Operation

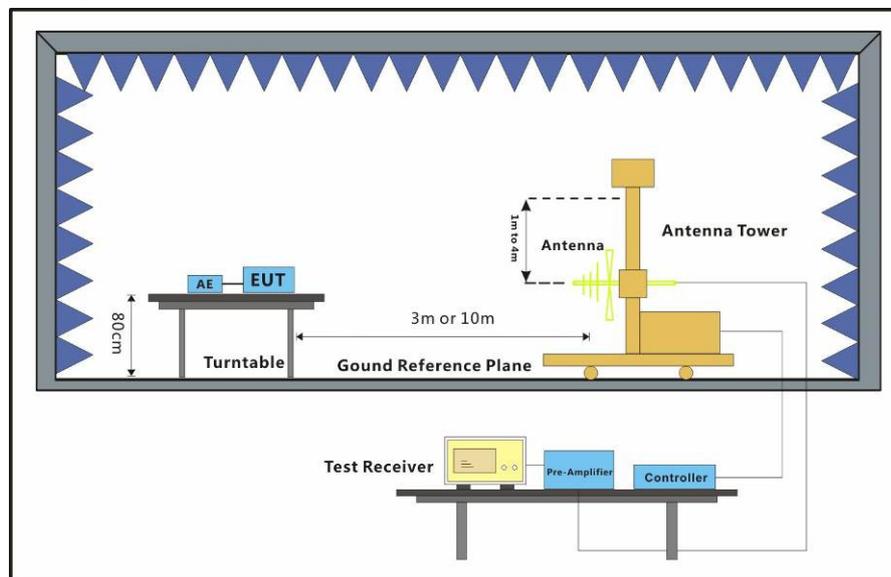
Operating Environment:

Temperature: 24 °C      Humidity: 54 % RH      Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case:  
 a: Telecom Idle + BT+ WLAN + GPS Rx + playing MP4 + earphone + battery + adapter  
 l: PC mode, keep EUT communication with PC

The worst case for final test:  
 a: Telecom Idle + BT+ WLAN + GPS Rx + playing MP4 + earphone + battery + adapter  
 l: PC mode, keep EUT communication with PC

### 6.2.2 Test Setup Diagram

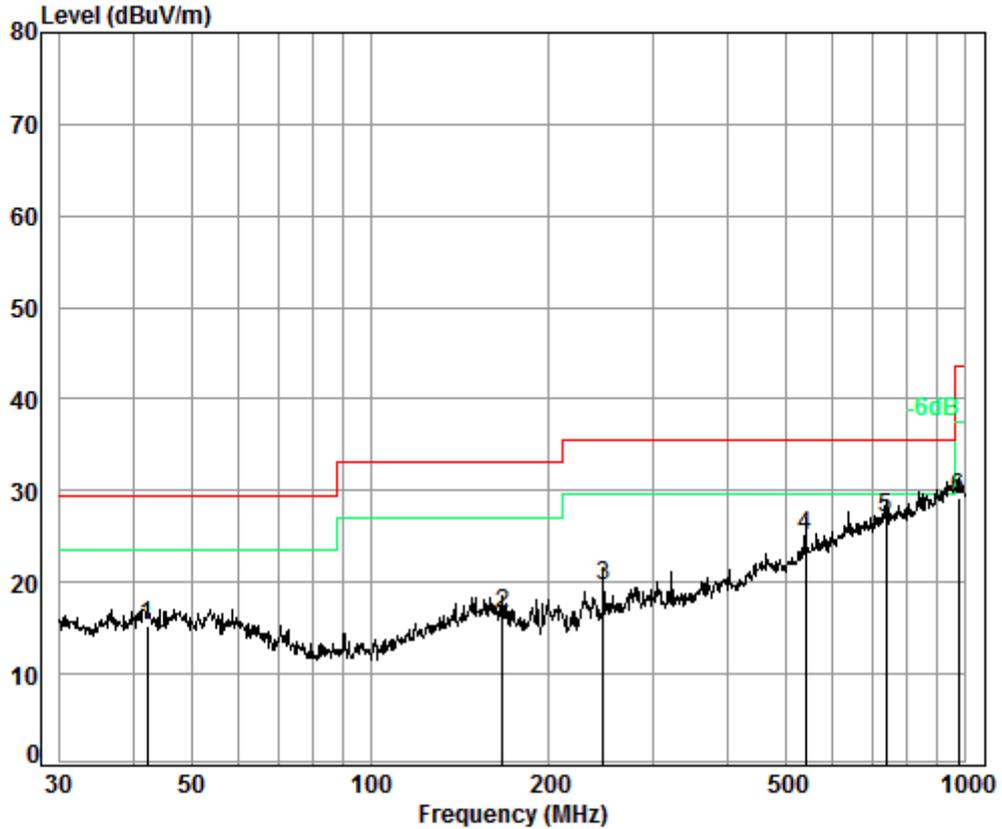


### 6.2.3 Measurement Data

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.



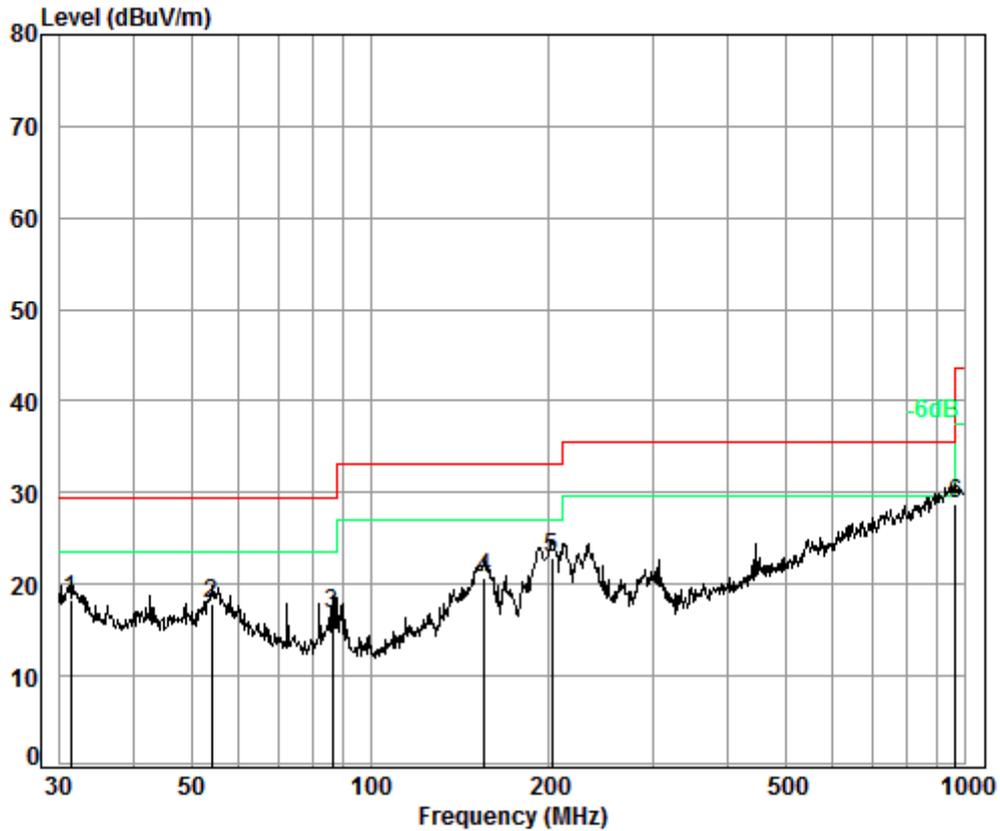
Mode:a; Polarization:Horizontal



Condition: 10m HORIZONTAL  
Job No. : 09260RG  
Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	42.15	6.80	13.13	32.45	27.86	15.34	29.50	-14.16
2	167.24	7.50	12.68	32.44	28.88	16.62	33.10	-16.48
3	246.81	7.84	11.19	32.42	32.91	19.52	35.60	-16.08
4	539.48	8.75	17.54	32.29	30.97	24.97	35.60	-10.63
5 pp	737.07	9.20	20.61	32.27	29.41	26.95	35.60	-8.65
6	975.75	9.60	22.81	30.80	27.68	29.29	43.50	-14.21

Mode:a; Polarization:Vertical



Condition: 10m VERTICAL  
Job No. : 09260RG  
Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.40	6.70	12.52	32.51	31.65	18.36	29.50	-11.14
2	54.07	6.98	12.45	32.43	30.90	17.90	29.50	-11.60
3	86.50	7.17	8.64	32.51	33.39	16.69	29.50	-12.81
4	155.36	7.48	13.40	32.43	32.34	20.79	33.10	-12.31
5 pp	202.10	7.61	9.34	32.46	38.43	22.92	33.10	-10.18
6	962.16	9.60	22.77	30.90	27.39	28.86	43.50	-14.64

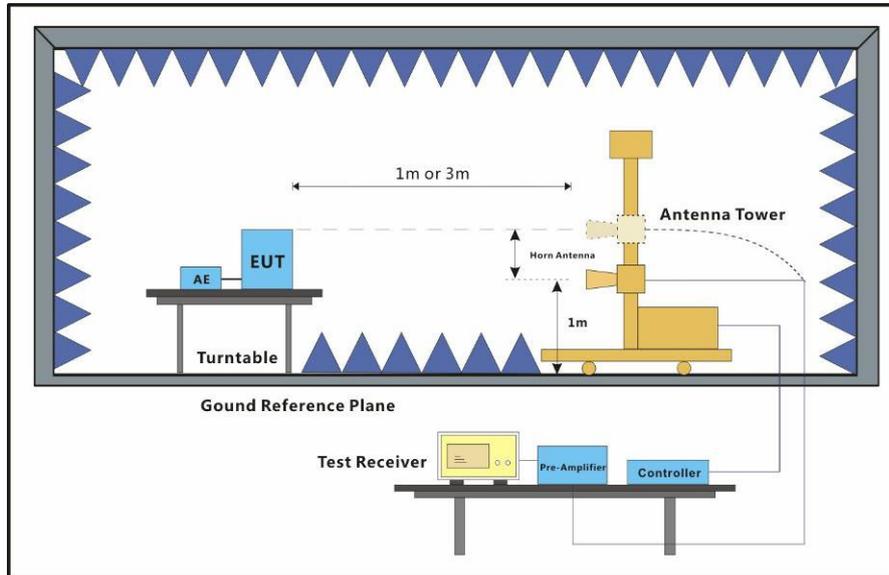
### 6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B:2016  
Test Method: ANSI C63.4  
Frequency Range: Above 1GHz  
Measurement Distance: 3m  
Limit:  
Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average  
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 100M to 18000MHz

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

Operating Environment:  
Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar  
Pretest these mode to find the worst case: a: Telecom Idle + BT+ WLAN + GPS Rx + playing MP4 + earphone + battery + adapter  
l: PC mode, keep EUT communication with PC  
The worst case for final test: a: Telecom Idle + BT+ WLAN + GPS Rx + playing MP4 + earphone + battery + adapter  
l: PC mode, keep EUT communication with PC

#### 6.3.2 Test Setup Diagram

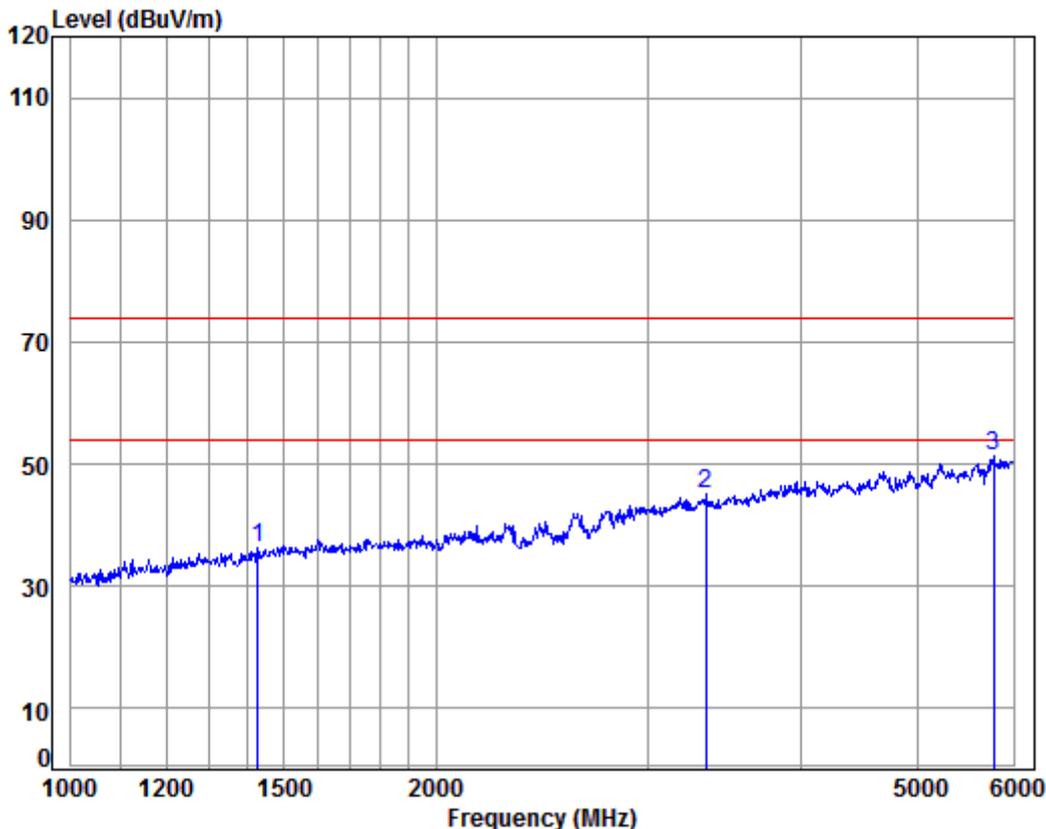


#### 6.3.3 Measurement Data

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



Mode:a; Polarization:Horizontal



Condition: 3m Horizontal

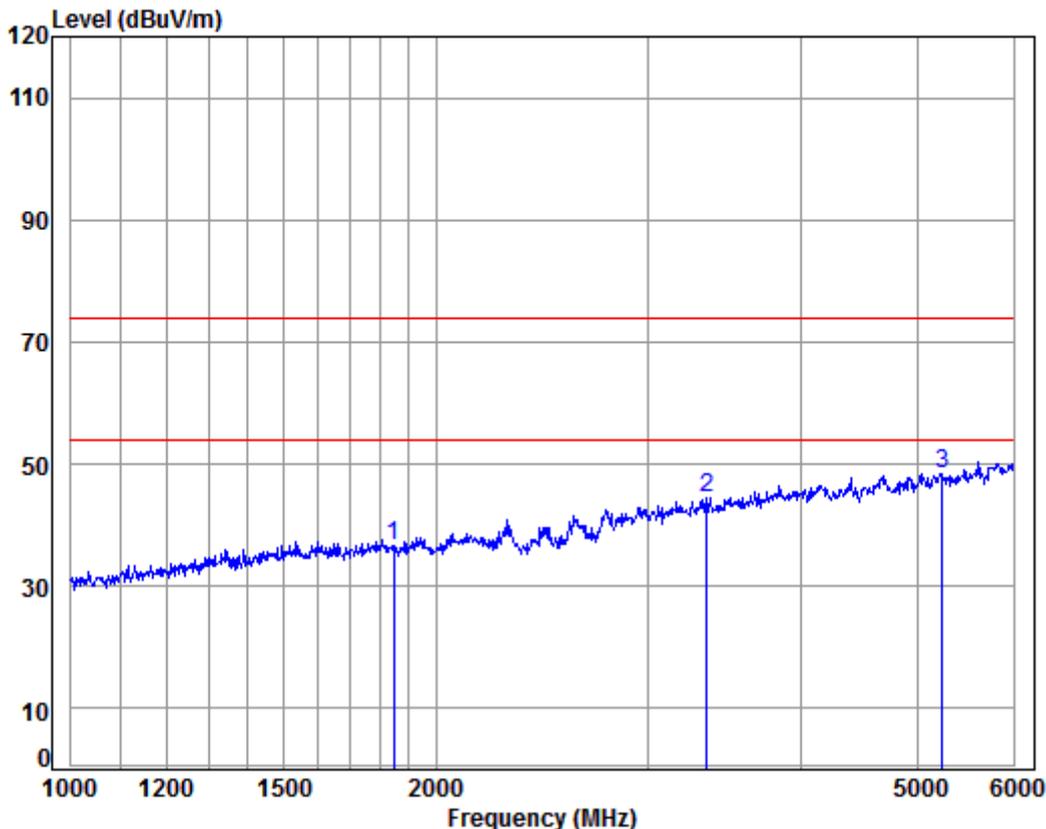
Job No : 09260RG

Mode : a

	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	1425.850	5.24	25.50	38.05	43.48	36.17	74.00	-37.83	Peak
2	3339.610	6.31	31.93	37.94	44.78	45.08	74.00	-28.92	Peak
3	5778.433	9.83	34.57	38.34	45.13	51.19	74.00	-22.81	Peak



Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

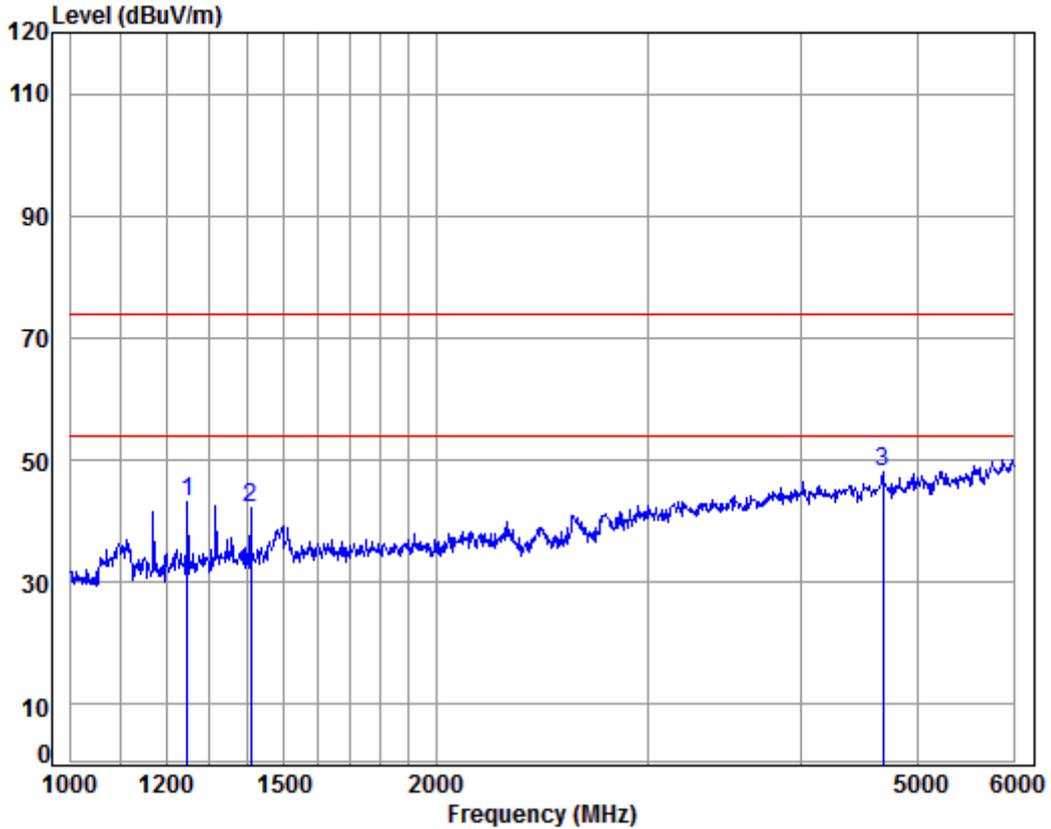
Job No : 09260RG

Mode : a

	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	1845.558	5.06	27.24	38.01	42.44	36.73	74.00	-37.27	Peak
2	3351.599	6.33	31.95	37.94	44.18	44.52	74.00	-29.48	Peak
3	5236.146	8.46	34.45	38.45	44.06	48.52	74.00	-25.48	Peak



Mode:l; Polarization:Horizontal

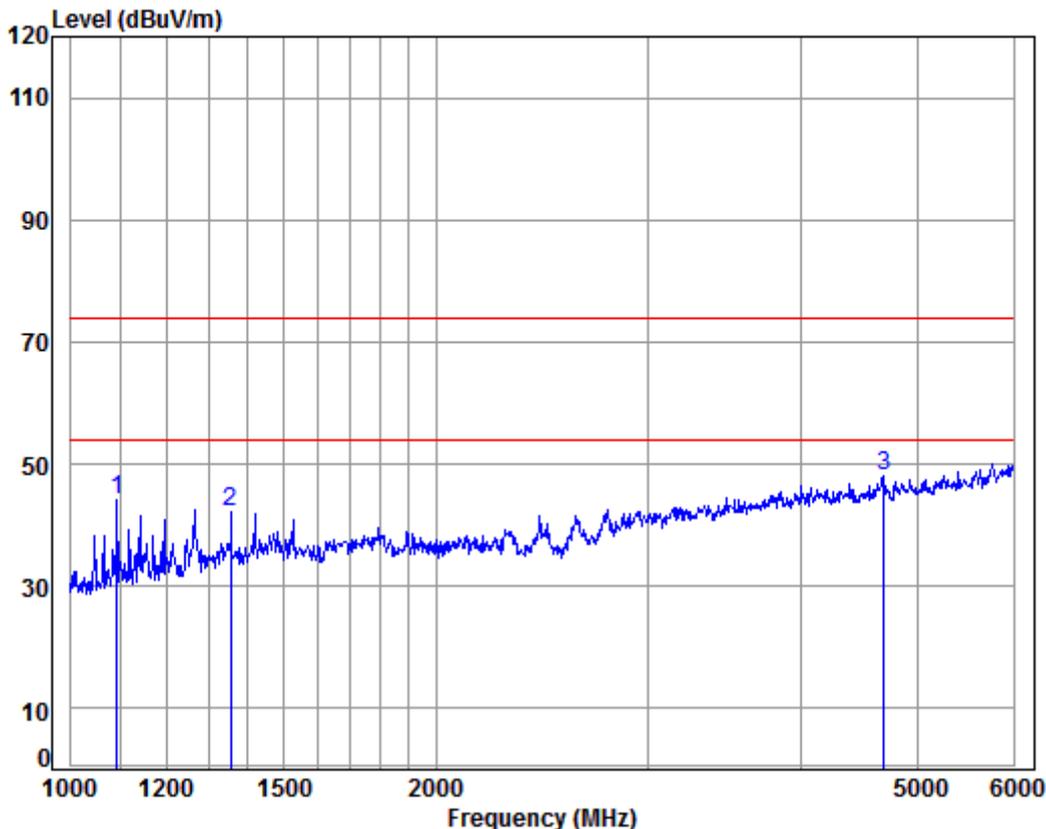


Condition: 3m HORIZONTAL  
Job No : 09260RG  
Mode : l

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1248.794	4.61	24.72	38.07	51.99	43.25	74.00	-30.75	Peak
2	1408.079	5.18	25.43	38.05	49.50	42.06	74.00	-31.94	Peak
3 pp	4677.225	7.75	33.93	38.35	44.74	48.07	74.00	-25.93	Peak



Mode:l; Polarization:Vertical



Condition: 3m VERTICAL

Job No : 09260RG

Mode : l

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	
1	1091.766	3.97	23.92	38.09	54.20	44.00	74.00	-30.00		Peak
2	1356.081	5.00	25.20	38.06	50.14	42.28	74.00	-31.72		Peak
3 pp	4685.613	7.76	33.95	38.35	44.65	48.01	74.00	-25.99		Peak



## **7 EUT Constructional Details**

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1708009260RG.