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Shenzhen Branch**

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Report No.: SZEM180300245206  
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## **TEST REPORT**

**Application No.:** SZEM1803002452RG  
**Applicant:** TCL Communication Ltd.  
**Address of Applicant:** 7/F, Block F4, TCL International E City Zhong Shan Yuan Road, Nanshan District, Shenzhen, China  
**Manufacturer:** TCL Communication Ltd.  
**Address of Manufacturer:** 7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052  
**Factory:** Huizhou TCL Mobile Communication Co., Ltd.  
**Address of Factory:** No.86, Hechang 7th West Road, Zhong Kai Hi-tech Development District, Huizhou, Guangdong China 516006  
**Equipment Under Test (EUT):**  
**EUT Name:** LTE/UMTS/GSM mobile phone  
**Model No.:** 5041C  
**FCC ID:** 2ACCJH087  
**Trade mark:** alcatel  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2018-04-25  
**Date of Test:** 2018-05-04 to 2018-05-10  
**Date of Issue:** 2018-05-18

<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		2018-05-18		Original

Authorized for issue by:				
				
		<hr/>		
		Leo Lai /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
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

InternalSource	UpperFrequency
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:	Model: UC11US P/N: CBA0058AGAC4 Input: AC100-240V 50/60Hz 0.2A Output: DC5.0V 1.0A
Cable:	USB cable: 100cm Unshielded.

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Earphone	PHILIPS	SHE6000	REF. No.SEA1000
Laptop	Lenovo	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%



#### **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	2017-07-13	2018-07-12
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	2017-07-13	2018-07-12
EMI Test Receiver (9kHz-3GHz)	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

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	2017-07-13	2018-07-12
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-09	2018-04-13	2019-04-12
Horn Antenna(1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2017-09-27	2018-09-26



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<b>General used equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
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( $\mu$ V)-56dB( $\mu$ V) quasi-peak, 56dB( $\mu$ V)-46dB( $\mu$ V) average
0.5M-5MHz	56dB( $\mu$ V) quasi-peak, 46dB( $\mu$ V) average
5M-30MHz	60dB( $\mu$ V) quasi-peak, 50dB( $\mu$ V) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

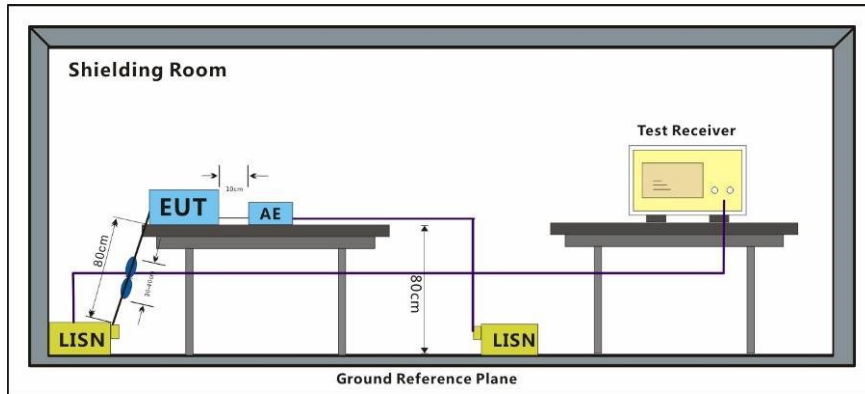
**6.1.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.6 °C Humidity: 67.9 % RH Atmospheric Pressure: 1020 mbar

- Pretest these modes to find the worst case:
- g: GSM (850M Traffic) + BT +WLAN + battery + adapter
  - h: GSM (1900M Traffic) + BT +WLAN + earphone + battery + adapter
  - i: WCDMA Band II + BT +WLAN + earphone + battery + adapter
  - j: WCDMA Band IV + BT +WLAN + earphone + battery + adapter
  - k: WCDMA Band V + BT +WLAN + battery + adapter
  - l: LTE band 2 + BT +WLAN + battery + adapter
  - m: LTE band 4 + BT +WLAN + battery + adapter
  - n: LTE band 5 + BT +WLAN + battery + adapter
  - o: LTE band 12 + BT +WLAN + GPS Rx + battery + adapter
  - p: Transfer data between the EUT and the PC
  - q: LTE band 14 + BT +WLAN + GPS Rx + battery + adapter
- The worst case for final test:
- g: GSM (850M Traffic) + BT +WLAN + battery + adapter
  - p: Transfer data between the EUT and the PC

**6.1.2 Test Setup Diagram**

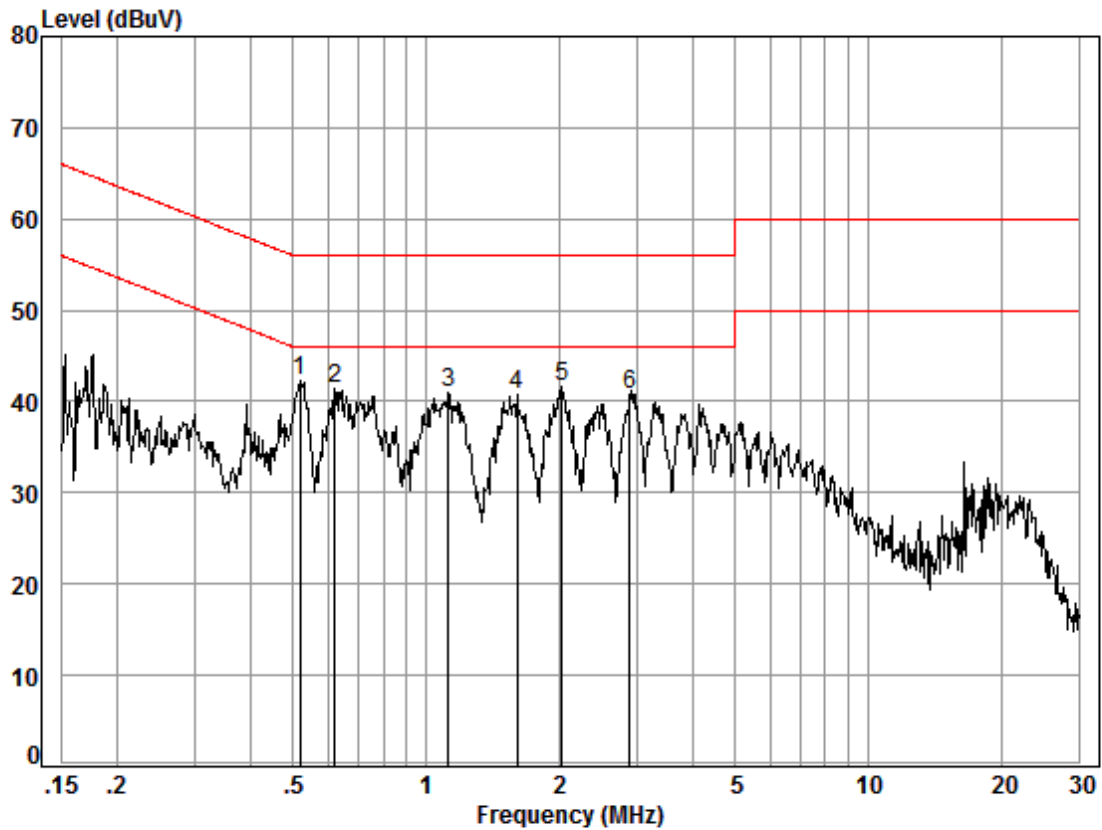


**6.1.3 Measurement Data**

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:g; Line:Live Line

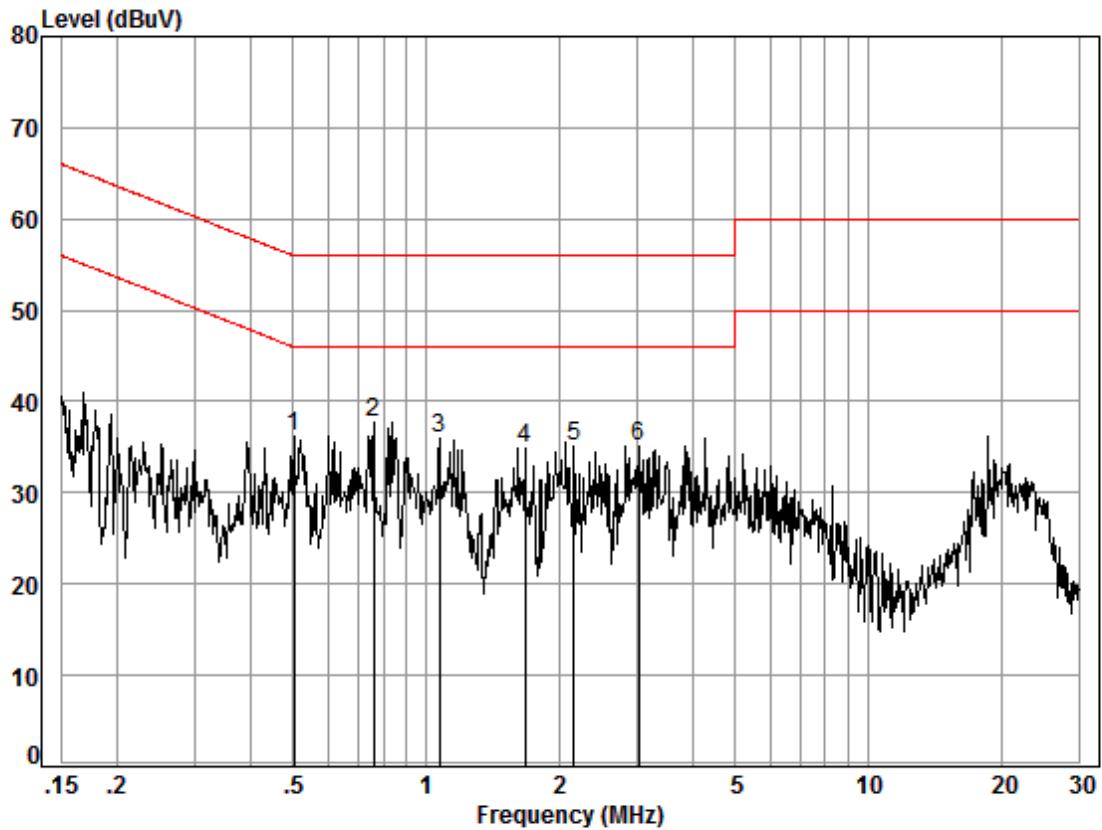


Site : Shielding Room  
Condition: Line  
Job No. : 02452RG  
Test mode: g  
Adapter : 1#

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.52	0.04	9.50	32.71	42.25	46.00	-3.75	Peak
2	0.62	0.06	9.52	31.84	41.42	46.00	-4.58	Peak
3	1.12	0.11	9.51	31.42	41.04	46.00	-4.96	Peak
4	1.61	0.13	9.51	31.14	40.78	46.00	-5.22	Peak
5	2.03	0.15	9.51	31.93	41.59	46.00	-4.41	Peak
6	2.88	0.18	9.54	31.07	40.79	46.00	-5.21	Peak



Mode:g; Line:Neutral Line

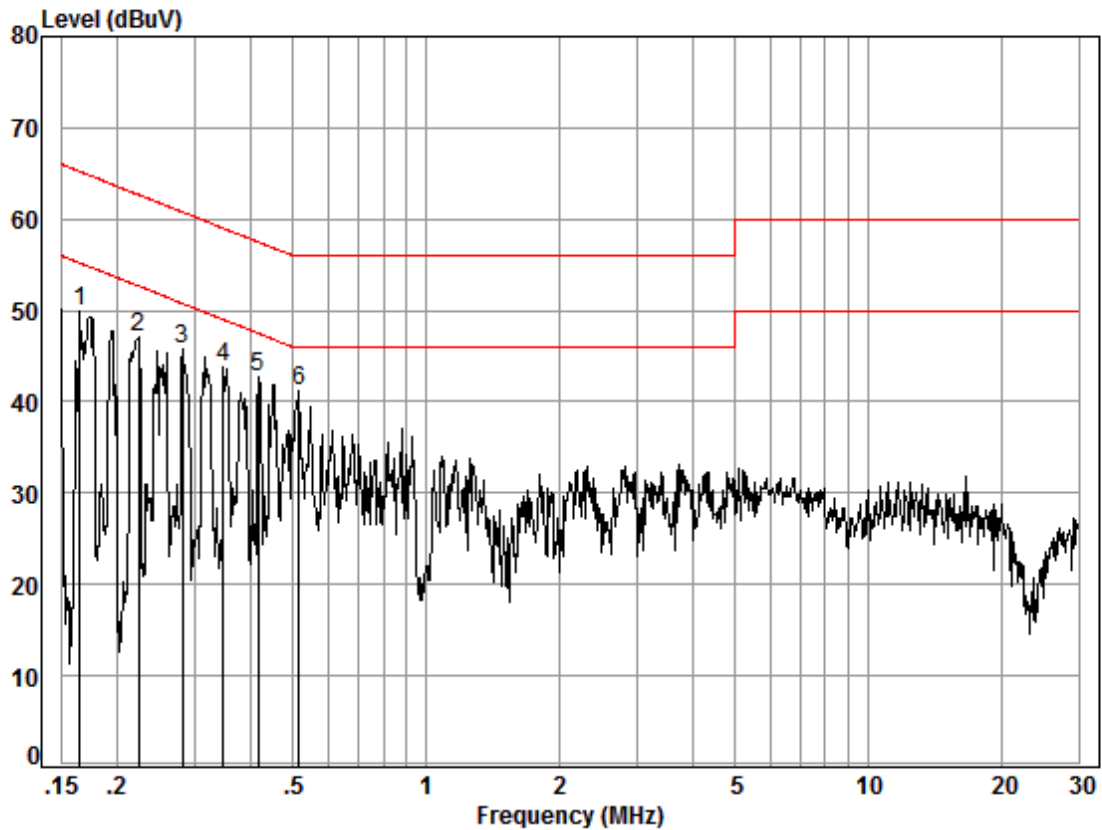


Site : Shielding Room  
Condition: Neutral  
Job No. : 02452RG  
Test mode: g  
Adapter : 1#

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.50	0.04	9.60	26.46	36.10	46.00	-9.90	Peak
2	0.76	0.07	9.61	28.09	37.77	46.00	-8.23	Peak
3	1.07	0.10	9.63	26.34	36.07	46.00	-9.93	Peak
4	1.67	0.14	9.64	25.06	34.84	46.00	-11.16	Peak
5	2.16	0.16	9.65	25.30	35.11	46.00	-10.89	Peak
6	3.03	0.18	9.65	25.32	35.15	46.00	-10.85	Peak



Mode:g; Line:Live Line

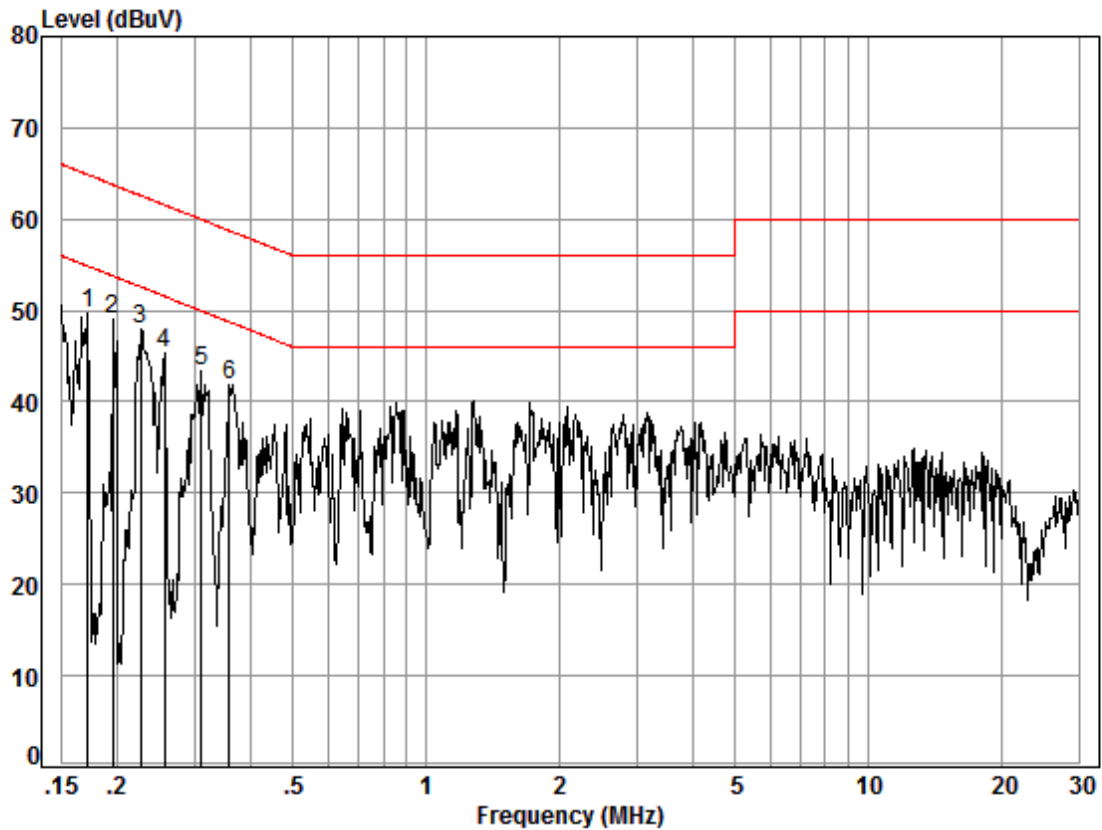


Site : Shielding Room  
Condition: Line  
Job No. : 02452RG  
Test mode: g  
Adapter : 2#

	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	40.31	49.85	55.21	-5.36	Peak
2	0.22	0.03	9.50	37.64	47.17	52.70	-5.53	Peak
3	0.28	0.03	9.51	36.33	45.87	50.76	-4.89	Peak
4	0.35	0.03	9.50	34.33	43.86	49.00	-5.14	Peak
5	0.42	0.04	9.49	33.17	42.70	47.51	-4.81	Peak
6	0.52	0.04	9.50	31.64	41.18	46.00	-4.82	Peak



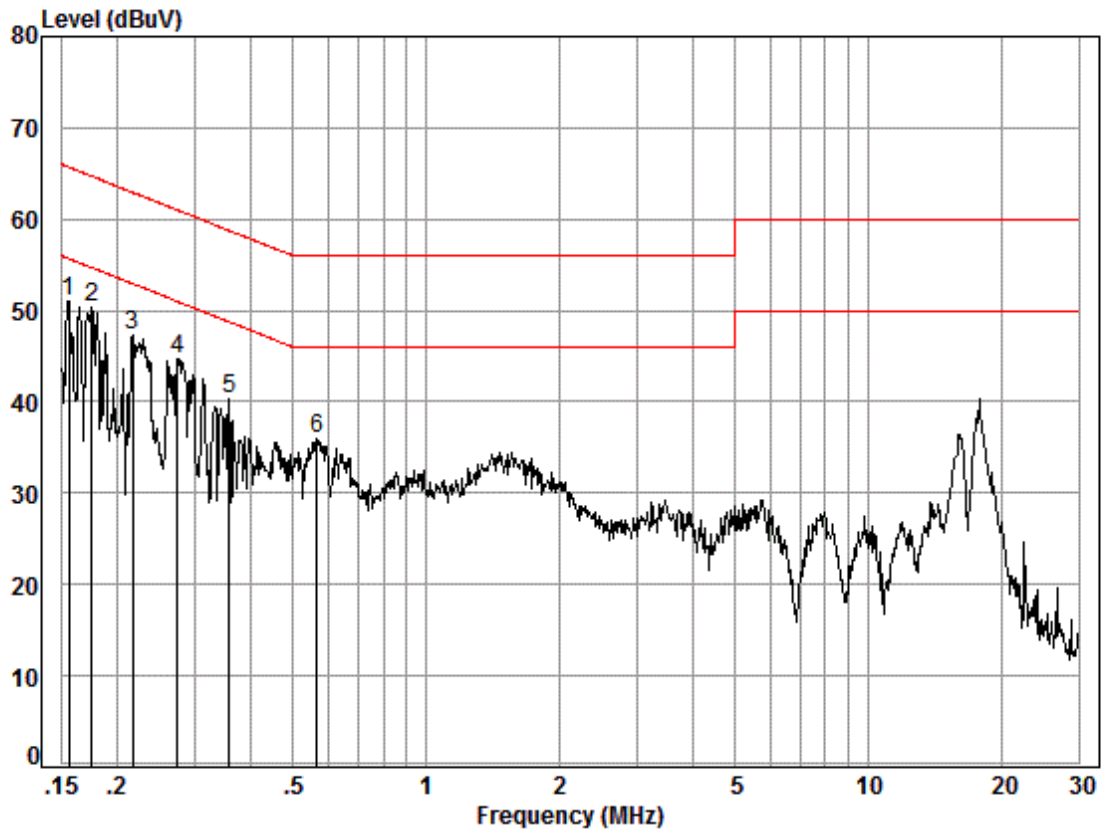
Mode:g; Line:Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 02452RG  
Test mode: g  
Adapter : 2#

	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	40.06	49.67	54.86	-5.19	Peak
2	0.20	0.03	9.57	39.41	49.01	53.80	-4.79	Peak
3	0.23	0.03	9.58	38.24	47.85	52.61	-4.76	Peak
4	0.26	0.03	9.58	35.84	45.45	51.56	-6.11	Peak
5	0.31	0.03	9.58	33.84	43.45	49.97	-6.52	Peak
6	0.36	0.03	9.58	32.26	41.87	48.74	-6.87	Peak

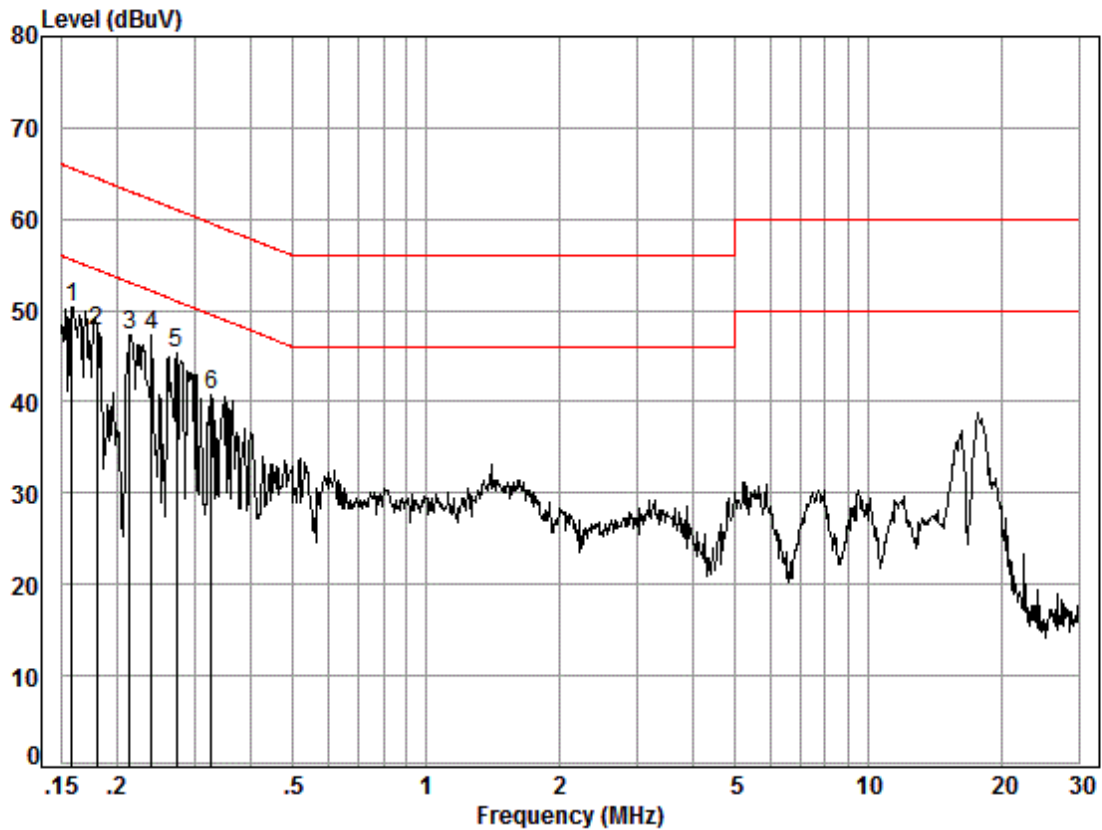
Mode:p; Line:Live Line



Site : Shielding Room  
 Condition: Line  
 Job No. : 02452RG  
 Test mode: p

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.16	0.02	9.51	41.39	50.92	-4.77	Peak
2	0.17	0.03	9.52	40.75	50.30	-4.42	Peak
3	0.22	0.03	9.50	37.71	47.24	-5.68	Peak
4	0.27	0.03	9.51	35.21	44.75	-6.23	Peak
5	0.36	0.03	9.50	30.71	40.24	-8.50	Peak
6	0.57	0.05	9.52	26.40	35.97	-10.03	Peak

Mode:p; Line:Neutral Line



Site : Shielding Room  
 Condition: Neutral  
 Job No. : 02452RG  
 Test mode: p

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.02	9.58	40.85	50.45	55.56	-5.11	Peak
2	0.18	0.03	9.58	38.06	47.67	54.50	-6.83	Peak
3	0.21	0.03	9.57	37.71	47.31	53.05	-5.74	Peak
4	0.24	0.03	9.58	37.75	47.36	52.13	-4.77	Peak
5	0.27	0.03	9.58	35.67	45.28	51.03	-5.75	Peak
6	0.33	0.03	9.58	31.15	40.76	49.53	-8.77	Peak





## **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:

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: 23 °C Humidity: 53 % RH Atmospheric Pressure: 1020 mbar

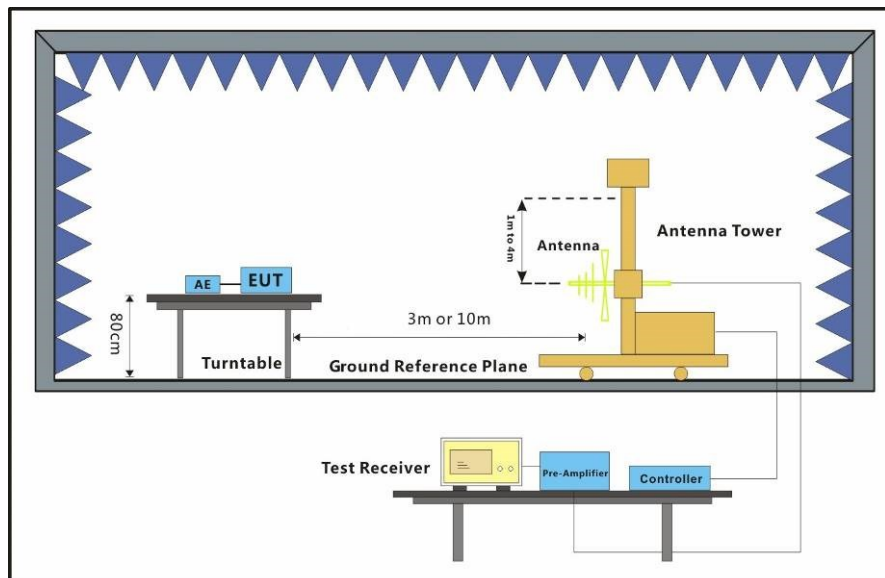
Pretest these modes to find the worst case:

- g: GSM (850M Traffic) + BT +WLAN + battery + adapter
- h: GSM (1900M Traffic) + BT +WLAN + earphone + battery + adapter
- i: WCDMA Band II + BT +WLAN + earphone + battery + adapter
- j: WCDMA Band IV + BT +WLAN + earphone + battery + adapter
- k: WCDMA Band V + BT +WLAN + battery + adapter
- l: LTE band 2 + BT +WLAN + battery + adapter
- m: LTE band 4 + BT +WLAN + battery + adapter
- n: LTE band 5 + BT +WLAN + battery + adapter
- o: LTE band 12 + BT +WLAN + GPS Rx + battery + adapter
- p: Transfer data between the EUT and the PC
- q: LTE band 14 + BT +WLAN + GPS Rx + battery + adapter

The worst case for final test:

- h: GSM (1900M Traffic) + BT +WLAN + earphone + battery + adapter
- p: Transfer data between the EUT and the PC

### 6.2.2 Test Setup Diagram

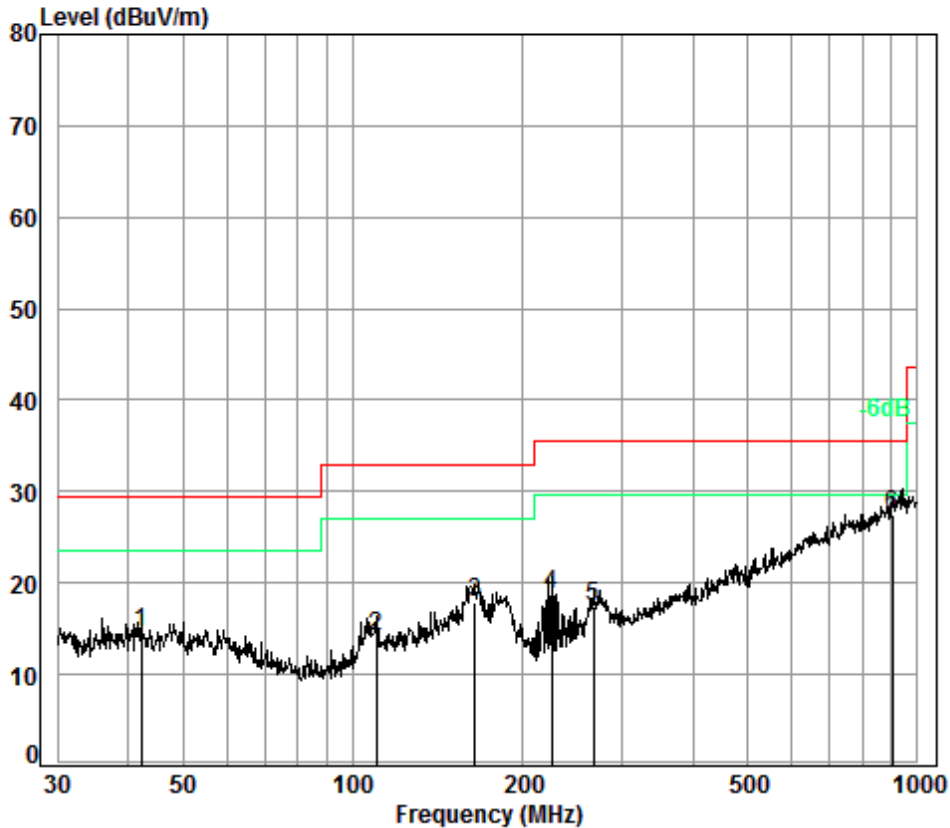


### 6.2.3 Measurement Data

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.



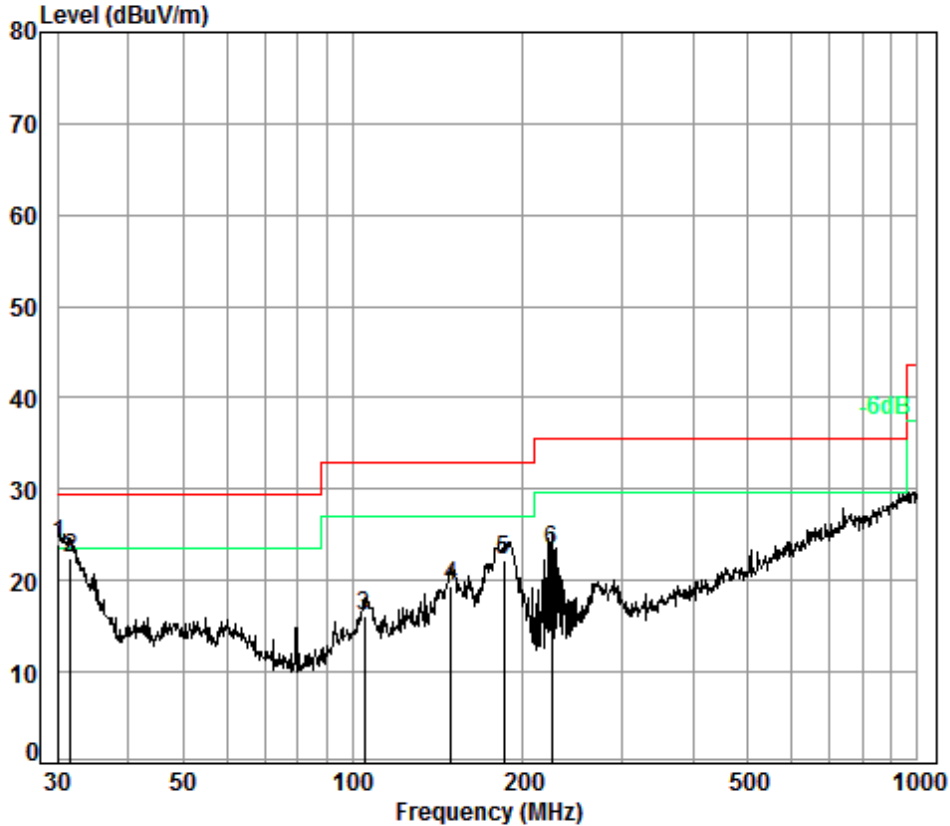
Mode:h; Polarization:Horizontal



Condition: 10m HORIZONTAL  
Job No. : 02452RG  
Test Mode: h

	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	32.54	27.28	14.67	29.50	-14.83
2	110.18	7.25	10.39	32.61	29.24	14.27	33.00	-18.73
3	164.33	7.50	12.96	32.52	29.85	17.79	33.00	-15.21
4	225.31	7.73	10.49	32.50	32.97	18.69	35.60	-16.91
5	266.61	7.94	11.73	32.47	30.28	17.48	35.60	-18.12
6 pp	903.31	9.50	22.27	31.51	27.20	27.46	35.60	-8.14

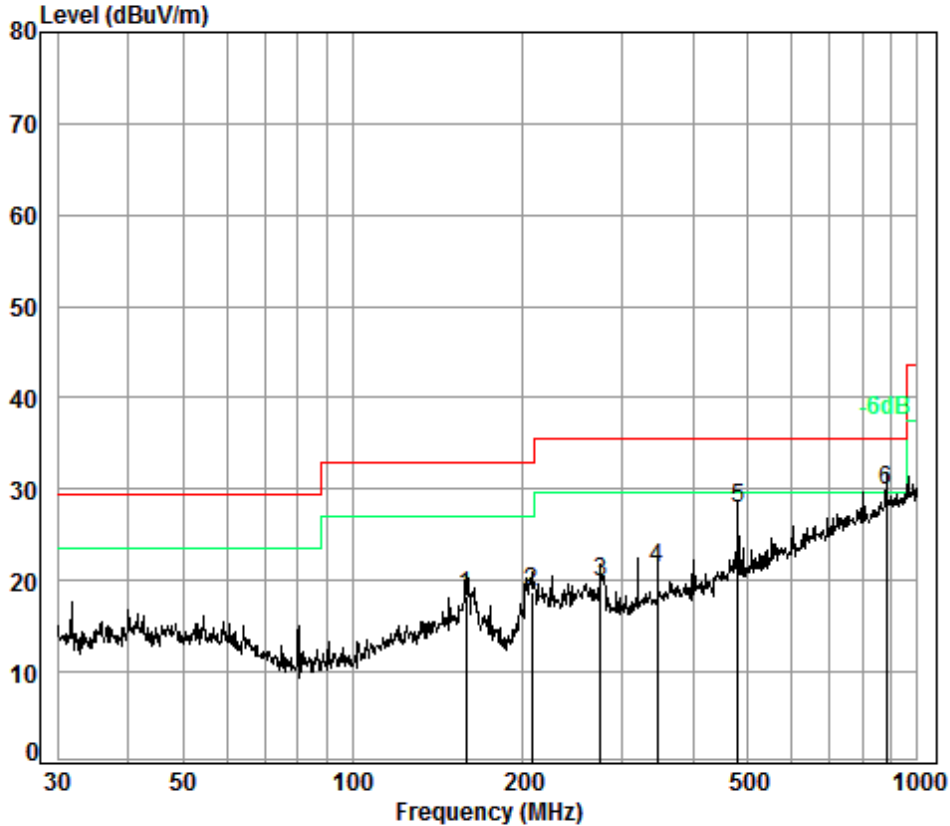
Mode:h; Polarization:Vertical



Condition: 10m VERTICAL  
 Job No. : 02452RG  
 Test Mode: h

	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 pp	30.21	6.70	12.48	32.61	37.31	23.88	29.50	-5.62
2	31.62	6.70	12.53	32.60	35.90	22.53	29.50	-6.97
3	104.90	7.23	9.88	32.62	31.71	16.20	33.00	-16.80
4	149.49	7.45	13.38	32.51	31.04	19.36	33.00	-13.64
5	185.14	7.53	10.33	32.52	36.92	22.26	33.00	-10.74
6	225.31	7.73	10.49	32.50	37.53	23.25	35.60	-12.35

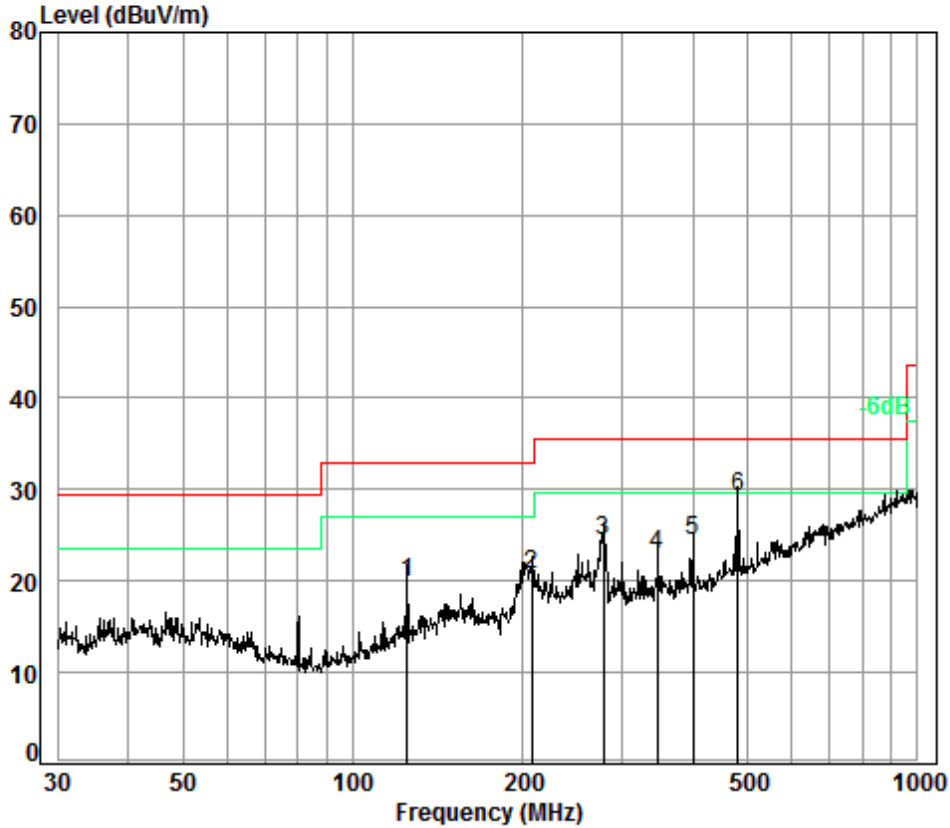
Mode:p; Polarization:Horizontal



Condition: 10m HORIZONTAL  
 Job No. : 02452RG  
 Test Mode: p

	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	158.67	7.49	13.39	32.51	30.02	18.39	33.00	-14.61
2	207.12	7.64	9.46	32.52	34.25	18.83	33.00	-14.17
3	275.16	7.98	12.01	32.46	32.35	19.88	35.60	-15.72
4	346.81	8.24	13.78	32.43	31.87	21.46	35.60	-14.14
5	480.53	8.50	16.53	32.42	35.21	27.82	35.60	-7.78
6 pp	881.41	9.50	21.98	31.69	30.09	29.88	35.60	-5.72

Mode:p; Polarization:Vertical



Condition: 10m VERTICAL  
 Job No. : 02452RG  
 Test Mode: p

	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	125.01	7.33	11.77	32.57	33.37	19.90	33.00	-13.10
2	207.85	7.64	9.48	32.52	36.12	20.72	33.00	-12.28
3	278.07	7.99	12.10	32.46	36.76	24.39	35.60	-11.21
4	346.81	8.24	13.78	32.43	33.30	22.89	35.60	-12.71
5	400.43	8.30	14.87	32.43	33.60	24.34	35.60	-11.26
6 pp	480.53	8.50	16.53	32.42	36.60	29.21	35.60	-6.39



### **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) 1000M to18000MHz

### 6.3.1 E.U.T. Operation

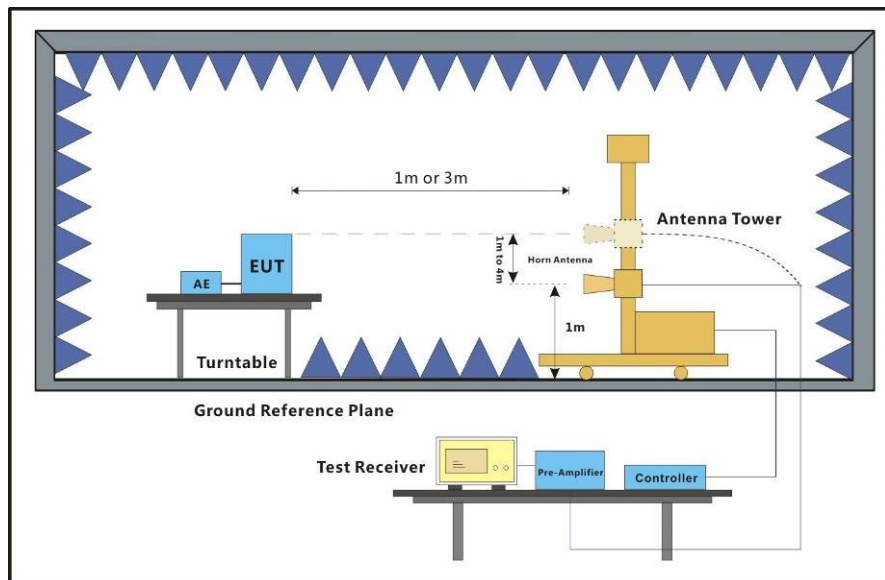
Operating Environment:

Temperature: 21.9 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

- g: GSM (850M Traffic) + BT +WLAN + battery + adapter
  - h: GSM (1900M Traffic) + BT +WLAN + earphone + battery + adapter
  - i: WCDMA Band II + BT +WLAN + earphone + battery + adapter
  - j: WCDMA Band IV + BT +WLAN + earphone + battery + adapter
  - k: WCDMA Band V + BT +WLAN + battery + adapter
  - l: LTE band 2 + BT +WLAN + battery + adapter
  - m: LTE band 4 + BT +WLAN + battery + adapter
  - n: LTE band 5 + BT +WLAN + battery + adapter
  - o: LTE band 12 + BT +WLAN + GPS Rx + battery + adapter
  - p: Transfer data between the EUT and the PC
  - q: LTE band 14 + BT +WLAN + GPS Rx + battery + adapter
- The worst case for final test:
- g: GSM (850M Traffic) + BT +WLAN + battery + adapter
  - p: Transfer data between the EUT and the PC

### 6.3.2 Test Setup Diagram



### 6.3.3 Measurement Data

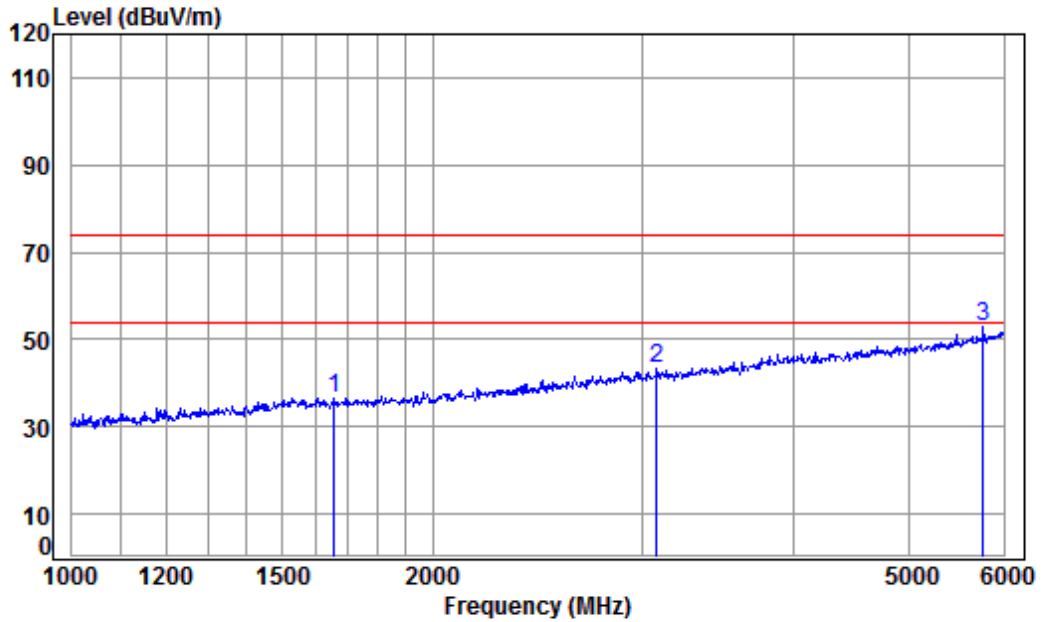
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The test frequency up to 12GHz, and the data from 6GHz to 12GHz is very low and not show the graph in the report.





Mode:g; Polarization:Horizontal

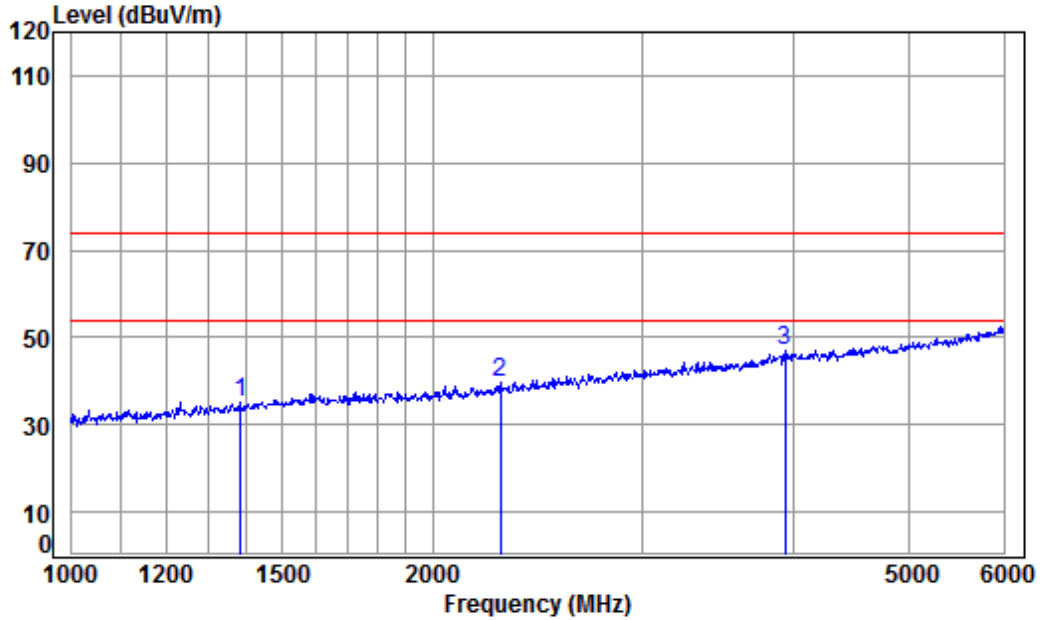


Condition: 3m Horizontal  
Job No : 02452RG  
Mode : g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1657.443	5.28	26.49	41.51	46.41	36.67	74.00	-37.33 Peak
2	3080.910	6.06	31.46	42.12	47.88	43.28	74.00	-30.72 Peak
3 pp	5768.088	9.79	34.56	41.80	50.23	52.78	74.00	-21.22 Peak



Mode:g; Polarization:Vertical

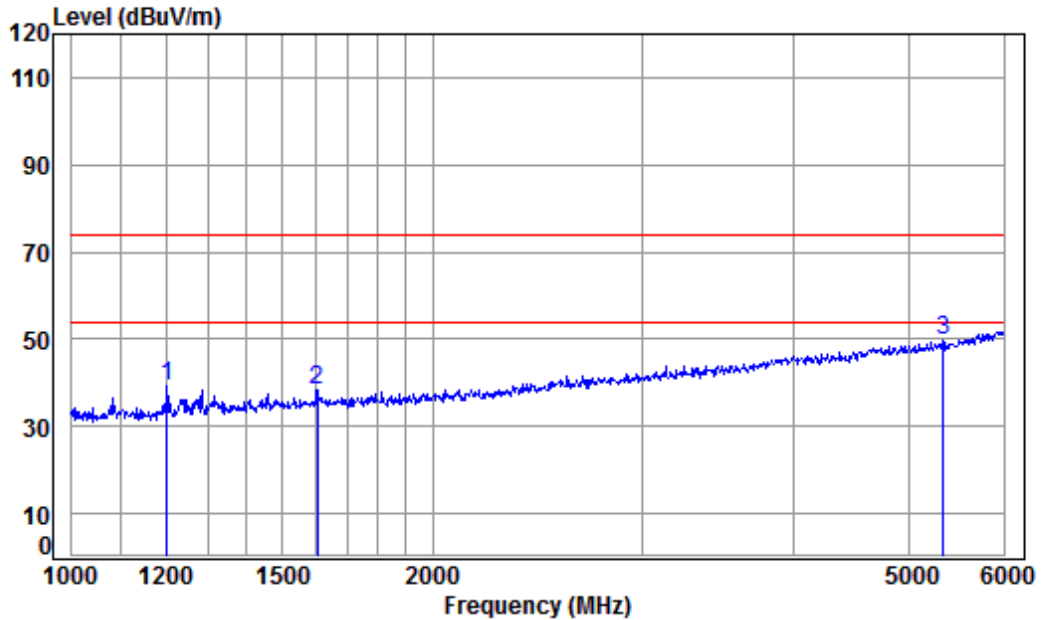


Condition: 3m VERTICAL  
Job No : 02452RG  
Mode : g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1383.074	5.09	25.32	41.32	46.22	35.31	74.00	-38.69	Peak
2	2280.077	5.32	28.74	41.83	47.49	39.72	74.00	-34.28	Peak
3 pp	3938.091	6.92	33.44	42.31	48.83	46.88	74.00	-27.12	Peak



Mode:p; Polarization:Horizontal



Condition: 3m HORIZONTAL

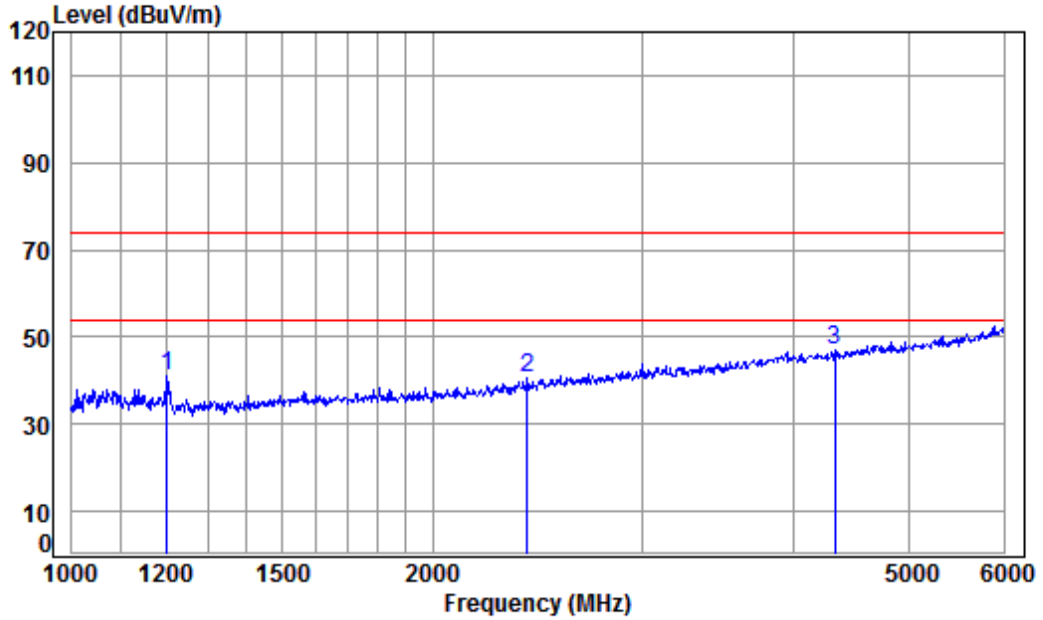
Job No : 02452RG

Mode : p

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1200.526	4.42	24.48	41.18	51.63	39.35	74.00	-34.65	Peak
2	1601.968	5.35	26.26	41.47	48.20	38.34	74.00	-35.66	Peak
3 pp	5340.371	8.62	34.43	42.18	48.73	49.60	74.00	-24.40	Peak



Mode:p; Polarization:Vertical



Condition: 3m VERTICAL  
Job No : 02452RG  
Mode : p

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1200.526	4.42	24.48	41.18	53.13	40.85	74.00	-33.15	Peak
2	2401.685	5.49	29.11	41.88	48.11	40.83	74.00	-33.17	Peak
3 pp	4338.163	7.38	33.60	42.39	48.44	47.03	74.00	-26.97	Peak

- End of the Report -