



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.: SZEM180500453603
Page: 1 of 27

TEST REPORT

Application No.:	SZEM1805004536RG
Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China
Equipment Under Test (EUT):	
EUT Name:	LTE-A Cat6 Module
Model No.:	EG06-A
Trade mark:	Quectel
FCC ID:	XMR201807EG06A
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2018-06-25
Date of Test:	2018-06-27 to 2018-06-28
Date of Issue:	2018-07-02
Test Result:	Pass*

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



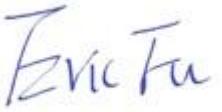
Keny Xu

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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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2018-07-02		Original

Authorized for issue by:			
		 _____ Leo Lai /Project Engineer	
		 _____ 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:	DC 3.8V
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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	± 3.0dB (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	ESCI	SEM004-01	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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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: 20.5 °C Humidity: 52.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: WCDMA Band 2+earphone+USB cable+adapter
- b: WCDMA Band 4+earphone+USB cable+adapter
- c: WCDMA Band 5+earphone+USB cable+adapter

- d: TE band 2+earphone+USB cable+adapter

- e: TE band 4+earphone+USB cable+adapter

- f: TE band 5+earphone+USB cable+adapter

- g: TE band 7+earphone+USB cable+adapter

- h: TE band 12+earphone+USB cable+adapter

- i: TE band 13+GPS Rx+earphone+USB cable+adapter

- j: TE band 25+earphone+USB cable+adapter

- k: TE band 26+earphone+USB cable+adapter

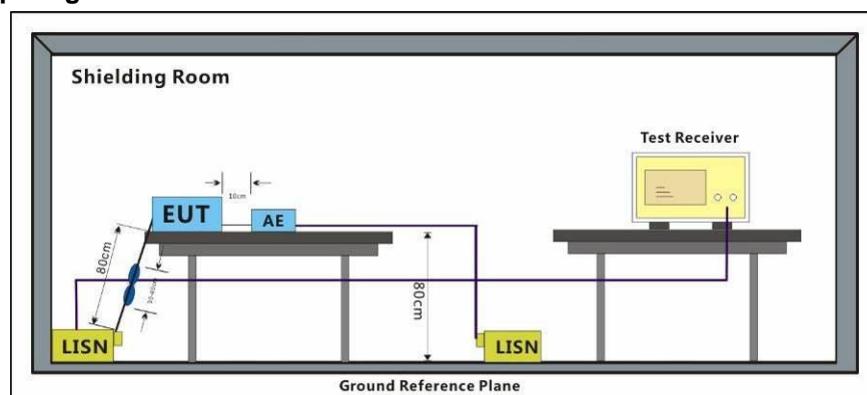
- l: TE band 30+earphone+USB cable+adapter

- m: LTE band 66+earphone+USB cable+adapter

The worst case for final test:

- a: WCDMA Band 2+earphone+USB cable+adapter
- d: TE band 2+earphone+USB cable+adapter

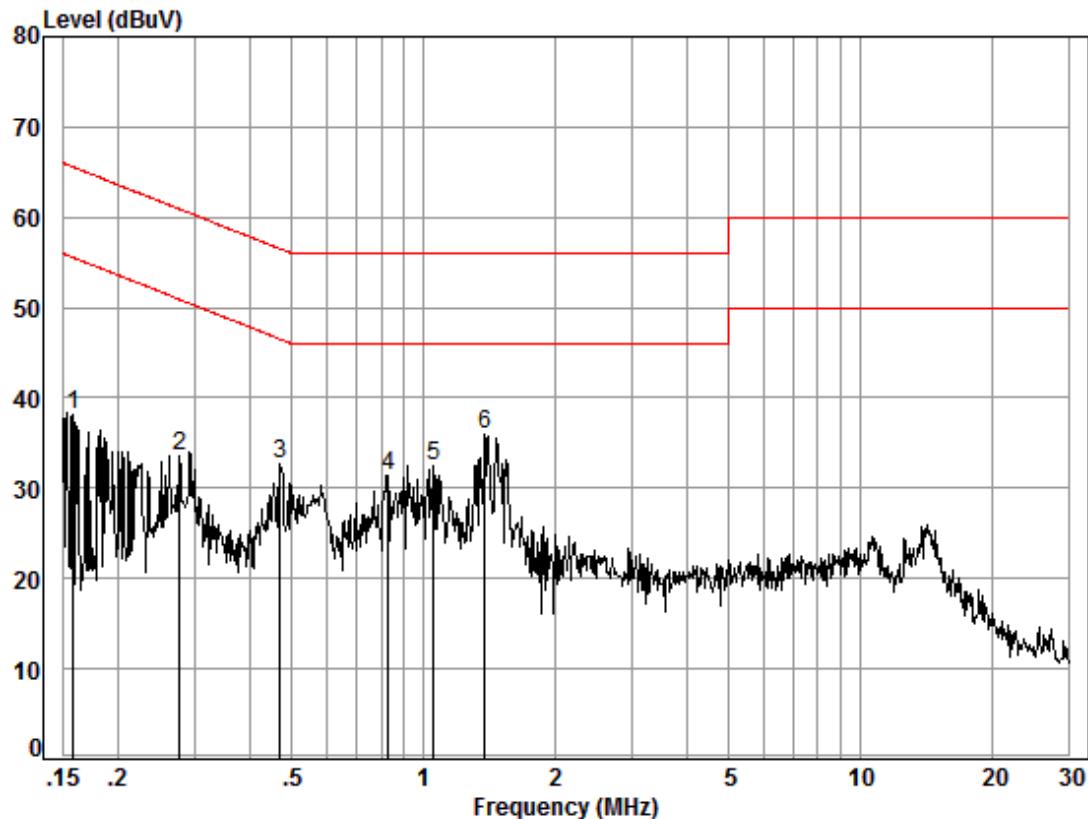
6.1.2 Test Setup Diagram



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.

Mode:a; Line:Live Line



Site : Shielding Room

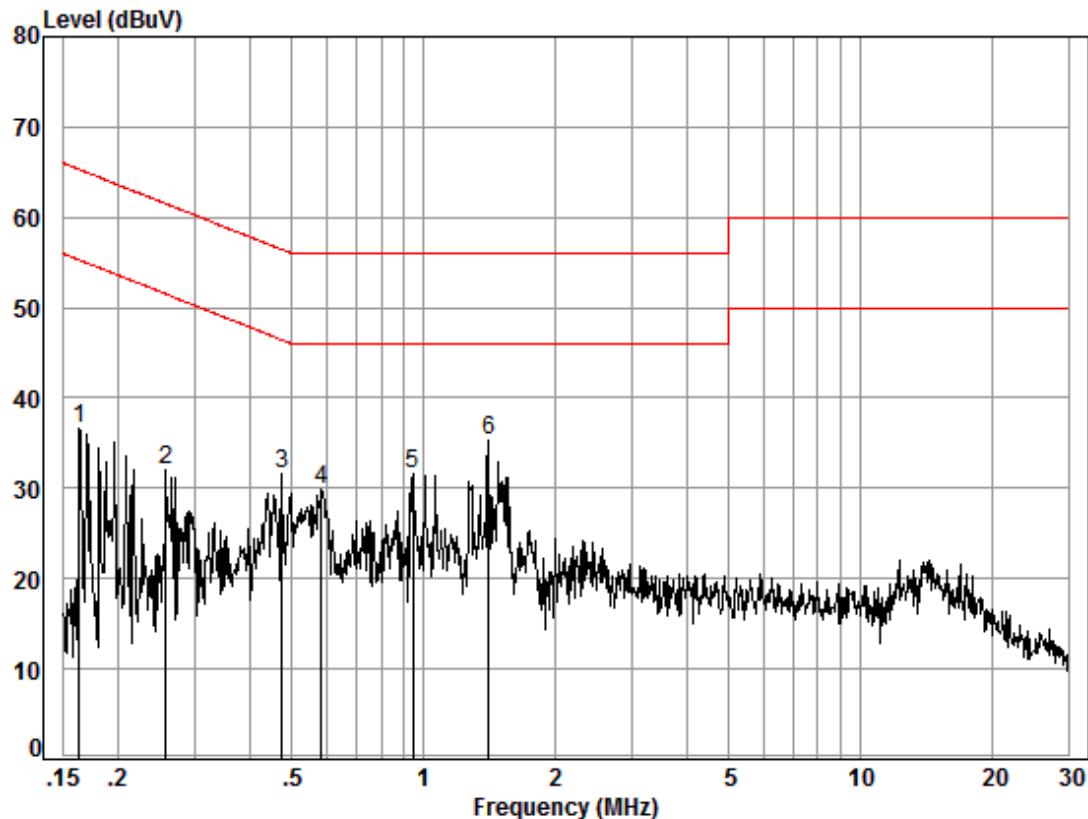
Condition: Line

Job No. : 04536RG

Test mode: a

	Freq	Cable	LISN	Read	Limit	Over	Remark	
		MHz	dB	dB	dBuV	dBuV	Line	Limit
1	0.16	0.02	9.51	28.69	38.22	55.56	-17.34	Peak
2	0.28	0.03	9.51	24.09	33.63	50.90	-17.27	Peak
3	0.47	0.04	9.49	23.11	32.64	46.49	-13.85	Peak
4	0.83	0.08	9.50	21.86	31.44	46.00	-14.56	Peak
5	1.05	0.10	9.50	22.87	32.47	46.00	-13.53	Peak
6	1.38	0.12	9.51	26.24	35.87	46.00	-10.13	Peak

Mode:a; Line:Neutral Line



Site : Shielding Room

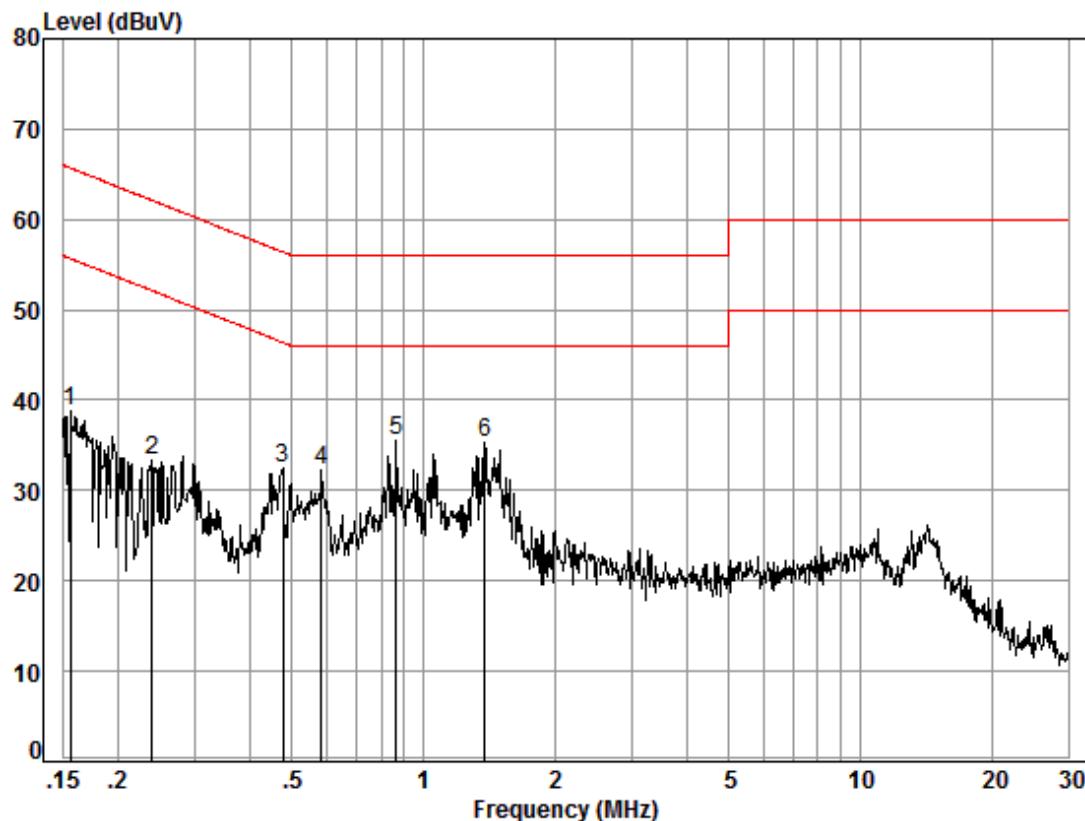
Condition: Neutral

Job No. : 04536RG

Test mode: a

	Freq	Cable	LISN	Read	Limit	Over	Remark
		MHz	dB	dB	dBuV	dBuV	dB
1	0.16	0.02	9.59	26.95	36.56	55.30	-18.74 Peak
2	0.26	0.03	9.58	22.47	32.08	51.51	-19.43 Peak
3	0.47	0.04	9.60	22.00	31.64	46.45	-14.81 Peak
4	0.59	0.05	9.62	20.17	29.84	46.00	-16.16 Peak
5	0.95	0.09	9.62	21.85	31.56	46.00	-14.44 Peak
6	1.41	0.13	9.63	25.58	35.34	46.00	-10.66 Peak

Mode:d; Line:Live Line



Site : Shielding Room

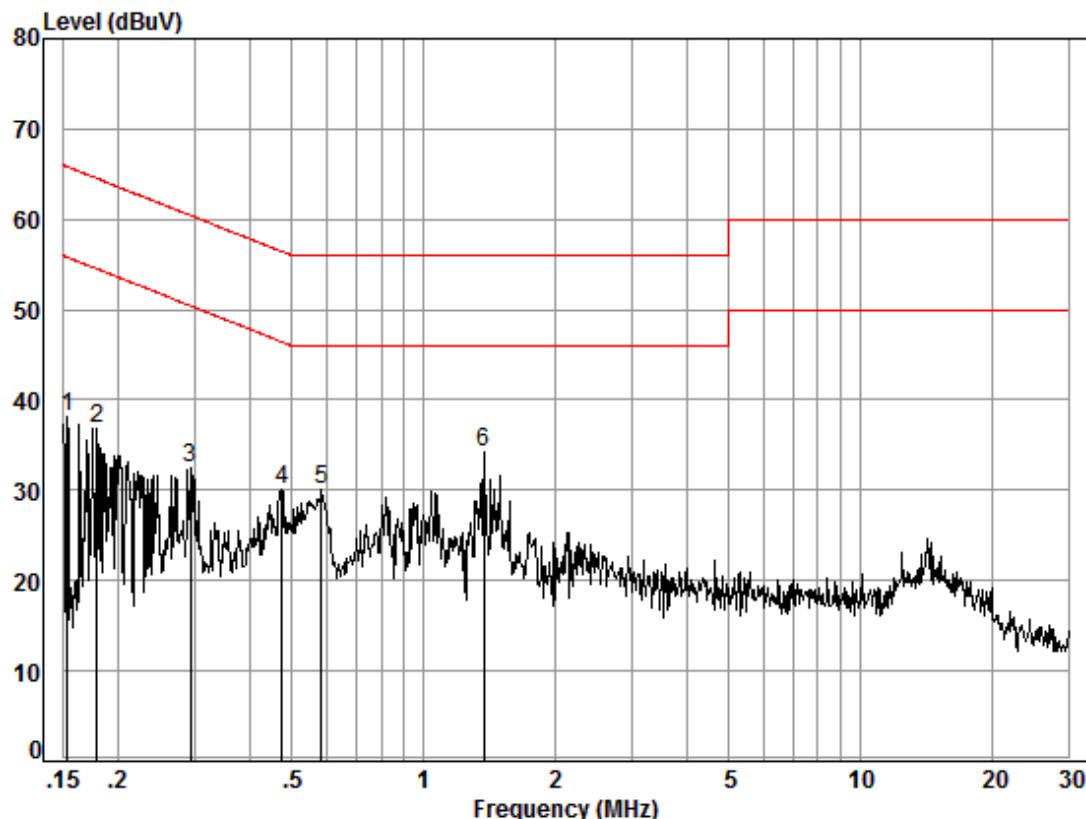
Condition: Line

Job No. : 04536RG

Test mode: d

Freq	Cable	LISN	Read	Limit		Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	0.16	0.02	9.51	29.26	38.79	55.69	-16.90 Peak
2	0.24	0.03	9.51	23.78	33.32	52.13	-18.81 Peak
3	0.48	0.04	9.49	22.95	32.48	46.41	-13.93 Peak
4	0.59	0.05	9.52	22.71	32.28	46.00	-13.72 Peak
5	0.87	0.08	9.49	25.92	35.49	46.00	-10.51 Peak
6	1.38	0.12	9.51	25.59	35.22	46.00	-10.78 Peak

Mode:d; Line:Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 04536RG

Test mode: d

	Freq	Cable	LISN	Read	Limit	Over	Remark
		MHz	dB	dB		dBuV	
1	0.15	0.02	9.58	28.60	38.20	55.82	-17.62 Peak
2	0.18	0.03	9.58	27.25	36.86	54.55	-17.69 Peak
3	0.29	0.03	9.58	22.91	32.52	50.46	-17.94 Peak
4	0.47	0.04	9.60	20.55	30.19	46.45	-16.26 Peak
5	0.59	0.05	9.62	20.51	30.18	46.00	-15.82 Peak
6	1.37	0.12	9.63	24.46	34.21	46.00	-11.79 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 μ V/m) quasi-peak
88MHz-216MHz	33.1(dB μ V/m) quasi-peak
216MHz-960MHz	35.6(dB μ V/m) quasi-peak
960MHz-1000MHz	43.5(dB μ V/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

6.2.1 E.U.T. Operation

Operating Environment:

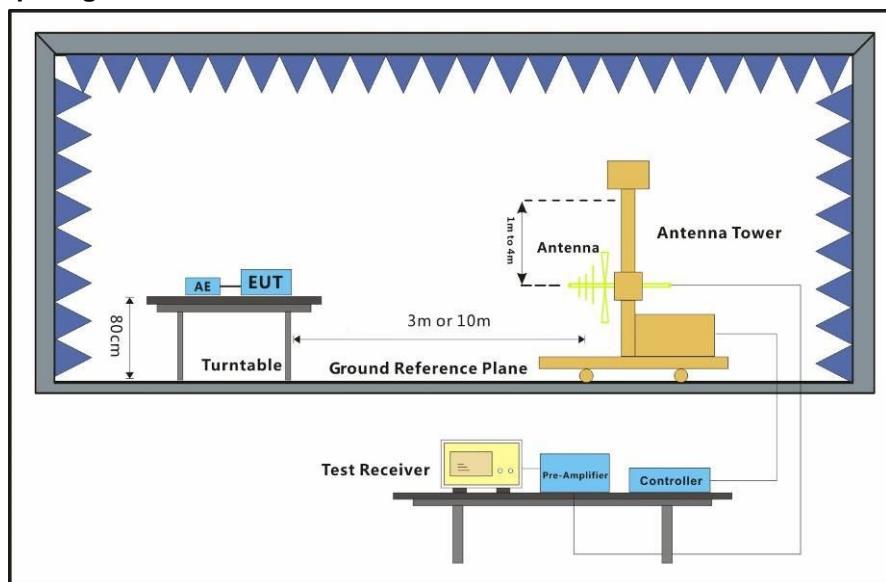
Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:
a: WCDMA Band 2+earphone+USB cable+adapter
b: WCDMA Band 4+earphone+USB cable+adapter
c: WCDMA Band 5+earphone+USB cable+adapter

d: TE band 2+earphone+USB cable+adapter
e: TE band 4+earphone+USB cable+adapter
f: TE band 5+earphone+USB cable+adapter
g: TE band 7+earphone+USB cable+adapter
h: TE band 12+earphone+USB cable+adapter
i: TE band 13+GPS Rx+earphone+USB cable+adapter
j: TE band 25+earphone+USB cable+adapter
k: TE band 26+earphone+USB cable+adapter
l: TE band 30+earphone+USB cable+adapter
m: LTE band 66+earphone+USB cable+adapter

The worst case for final test:
a: WCDMA Band 2+earphone+USB cable+adapter
d: TE band 2+earphone+USB cable+adapter

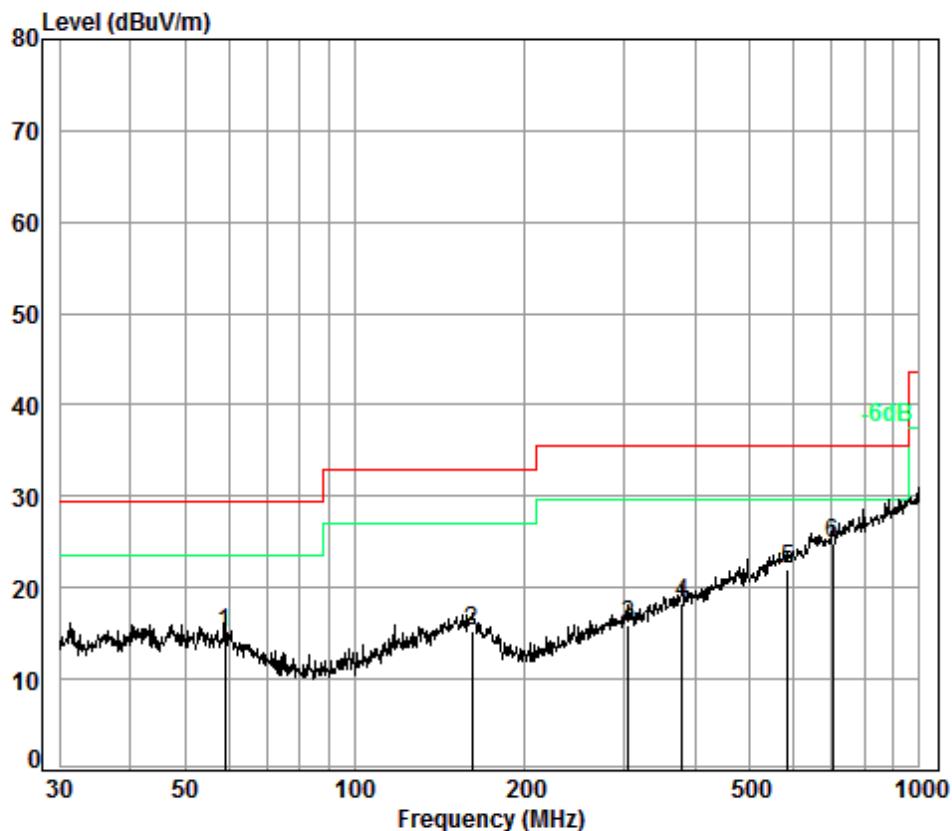
6.2.2 Test Setup Diagram



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.

Mode:a; Polarization:Horizontal



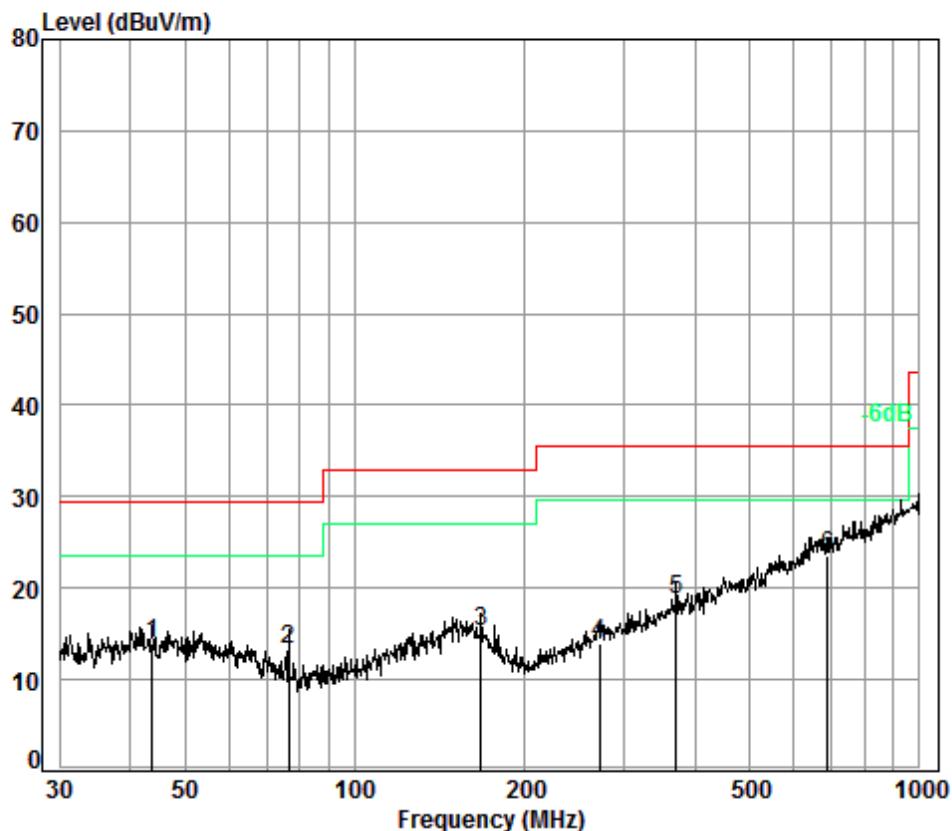
Condition: 10m HORIZONTAL

Job No. : 04536RG

Test Mode: a

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit
					MHz	dB	
1	58.82	7.00	12.09	32.54	28.51	15.06	29.50 -14.44
2	161.47	7.50	13.24	32.52	27.02	15.24	33.00 -17.76
3	305.68	8.07	12.83	32.44	27.54	16.00	35.60 -19.60
4	379.91	8.30	14.48	32.43	27.92	18.27	35.60 -17.33
5	584.79	8.86	18.39	32.41	27.16	22.00	35.60 -13.60
6 pp	701.76	9.16	20.14	32.39	27.89	24.80	35.60 -10.80

Mode:a; Polarization:Vertical



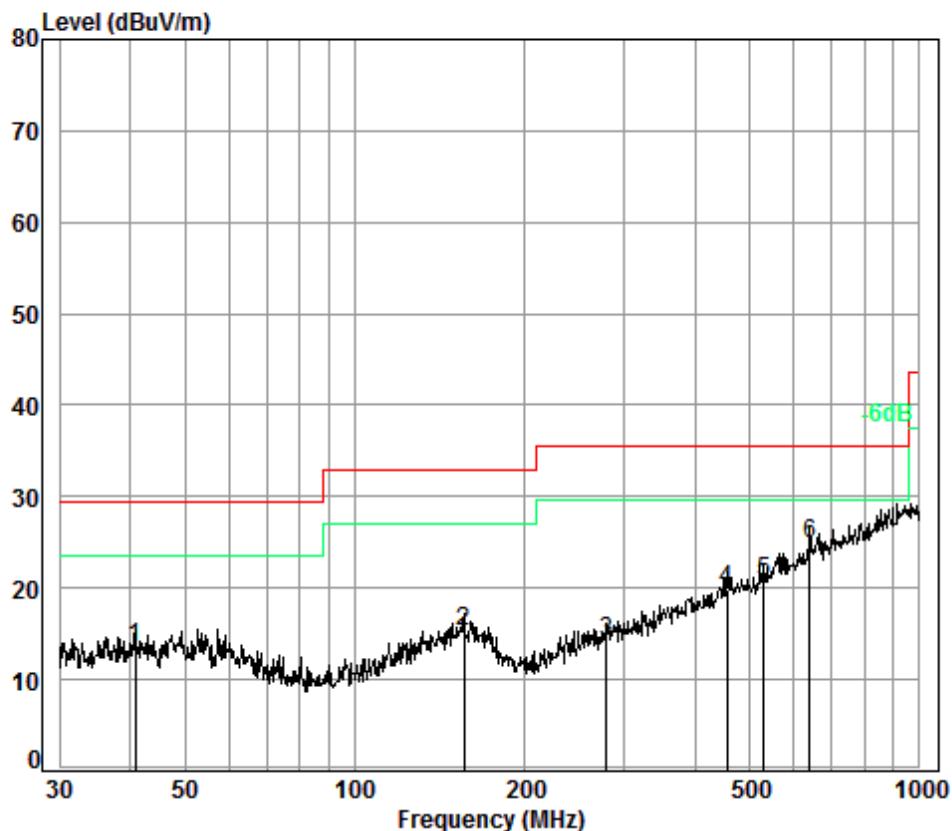
Condition: 10m VERTICAL

Job No. : 04536RG

Test Mode: a

Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	43.81	6.80	13.00	32.54	26.70	13.96	29.50	-15.54
2	76.51	7.03	9.05	32.59	29.89	13.38	29.50	-16.12
3	167.24	7.50	12.68	32.52	27.57	15.23	33.00	-17.77
4	271.32	7.96	11.89	32.46	26.65	14.04	35.60	-21.56
5	370.70	8.30	14.30	32.43	28.51	18.68	35.60	-16.92
6 pp	687.15	9.12	19.97	32.39	26.89	23.59	35.60	-12.01

Mode:d; Polarization:Horizontal



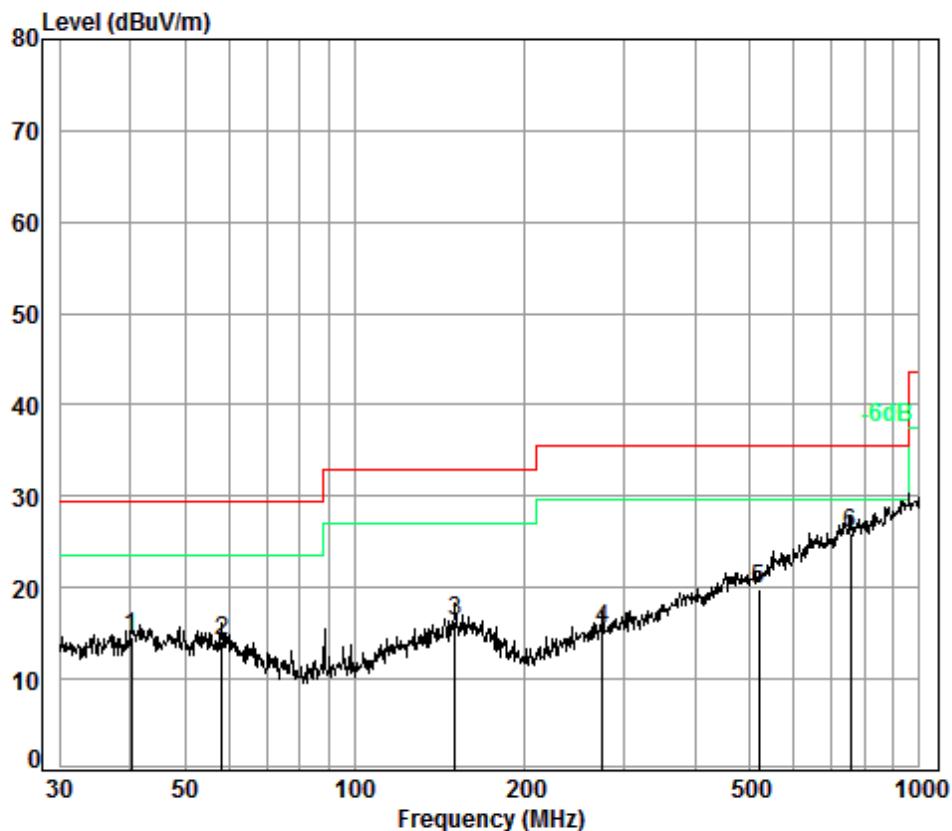
Condition: 10m HORIZONTAL

Job No. : 04536RG

Test Mode: d

Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.84	6.80	13.25	32.55	25.99	13.49	29.50	-16.01
2	155.91	7.48	13.40	32.51	26.83	15.20	33.00	-17.80
3	279.04	8.00	12.13	32.46	26.47	14.14	35.60	-21.46
4	455.91	8.44	16.25	32.42	27.58	19.85	35.60	-15.75
5	530.10	8.73	17.37	32.42	27.03	20.71	35.60	-14.89
6 pp	638.37	9.00	19.39	32.40	28.75	24.74	35.60	-10.86

Mode:d; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 04536RG

Test Mode: d

Freq	Cable	Ant	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	40.28	6.80	13.30	32.55	27.13	14.68	29.50 -14.82
2	58.20	7.00	12.13	32.54	27.49	14.08	29.50 -15.42
3	150.54	7.45	13.41	32.51	27.98	16.33	33.00 -16.67
4	275.16	7.98	12.01	32.46	27.88	15.41	35.60 -20.19
5	519.06	8.70	17.16	32.42	26.39	19.83	35.60 -15.77
6 pp	755.39	9.20	20.83	32.38	28.36	26.01	35.60 -9.59

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 μ V/m) peak, 54(dB μ V/m) average
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

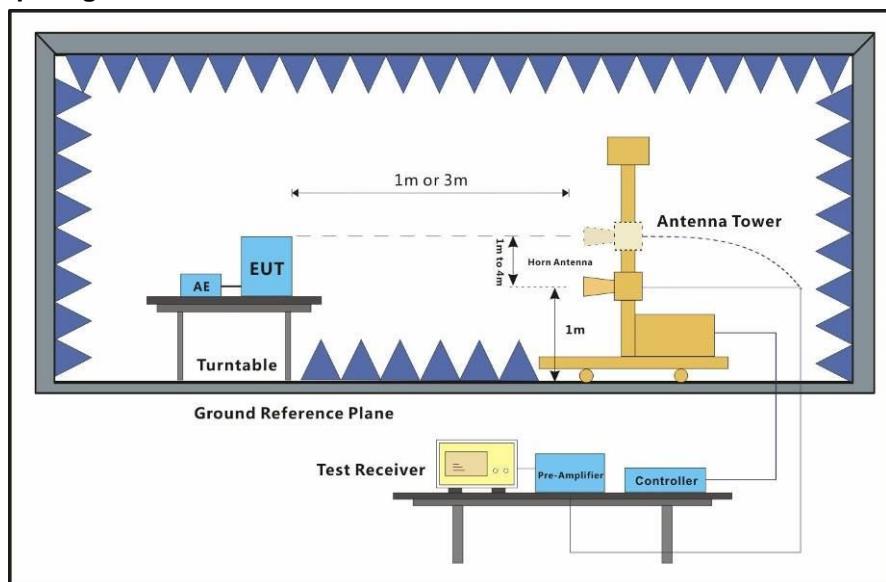
- a: WCDMA Band 2+earphone+USB cable+adapter
- b: WCDMA Band 4+earphone+USB cable+adapter
- c: WCDMA Band 5+earphone+USB cable+adapter

- d: TE band 2+earphone+USB cable+adapter
- e: TE band 4+earphone+USB cable+adapter
- f: TE band 5+earphone+USB cable+adapter
- g: TE band 7+earphone+USB cable+adapter
- h: TE band 12+earphone+USB cable+adapter
- i: TE band 13+GPS Rx+earphone+USB cable+adapter
- j: TE band 25+earphone+USB cable+adapter
- k: TE band 26+earphone+USB cable+adapter
- l: TE band 30+earphone+USB cable+adapter
- m: LTE band 66+earphone+USB cable+adapter

The worst case for final test:

- c: WCDMA Band 5+earphone+USB cable+adapter
- e: TE band 4+earphone+USB cable+adapter

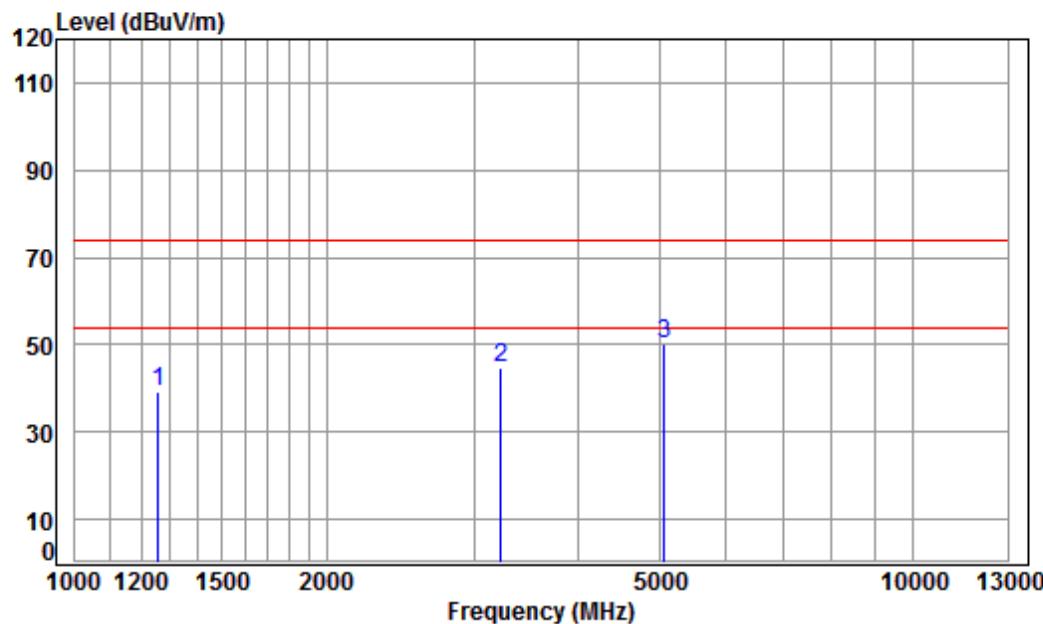
6.3.2 Test Setup Diagram



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.

Mode:c; Polarization:Horizontal



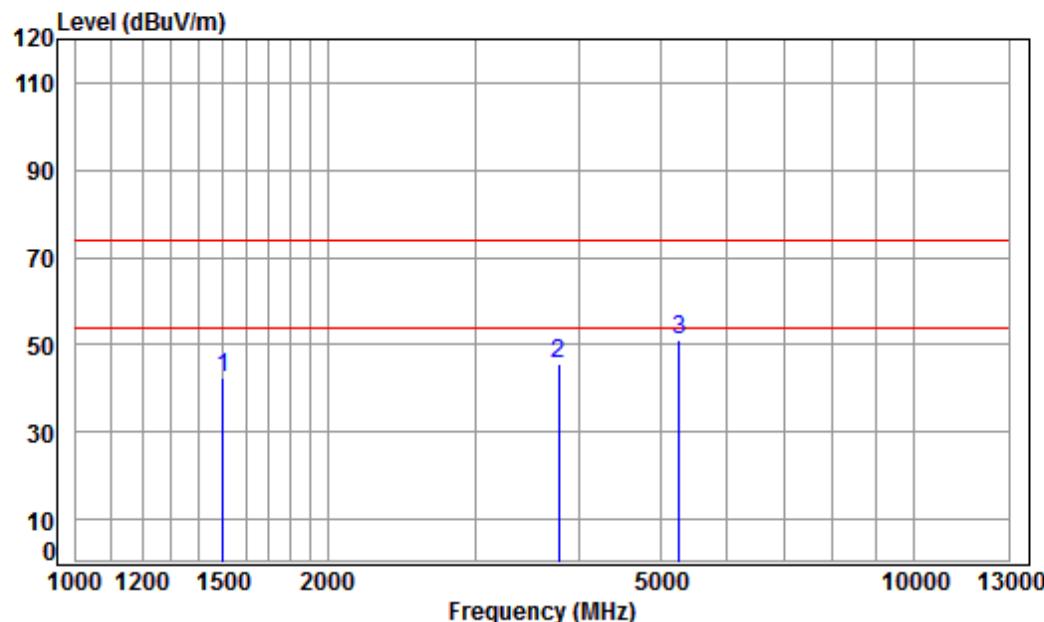
Condition: 3m Horizontal

Job No : 04536RG

Mode : c

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1256.438	4.64	24.84	41.23	50.85	39.10	74.00	-34.90	Peak
2	3229.030	6.21	31.28	42.16	49.24	44.57	74.00	-29.43	Peak
3	pp 5058.389	8.18	34.25	42.44	49.97	49.96	74.00	-24.04	Peak

Mode:c; Polarization:Vertical



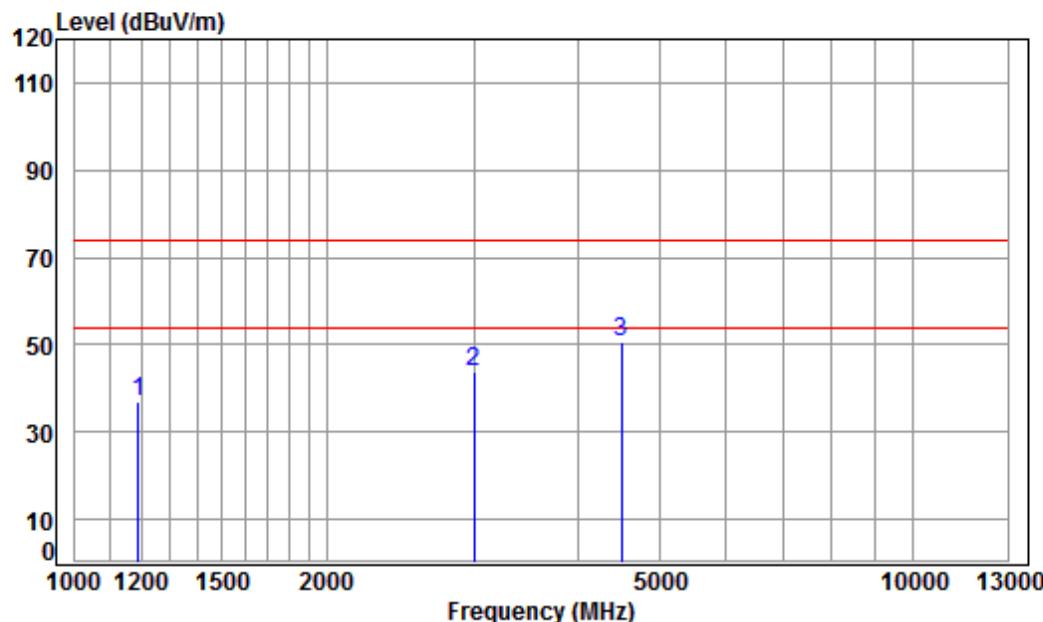
Condition: 3m VERTICAL

Job No : 04536RG

Mode : c

		Cable Freq	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	1499.695	5.48	25.80	41.41	52.55	42.42	74.00	-31.58	Peak	
2	3775.919	6.76	32.27	42.28	48.92	45.67	74.00	-28.33	Peak	
3 pp	5256.799	8.49	34.41	42.25	50.26	50.91	74.00	-23.09	Peak	

Mode:e; Polarization:Horizontal



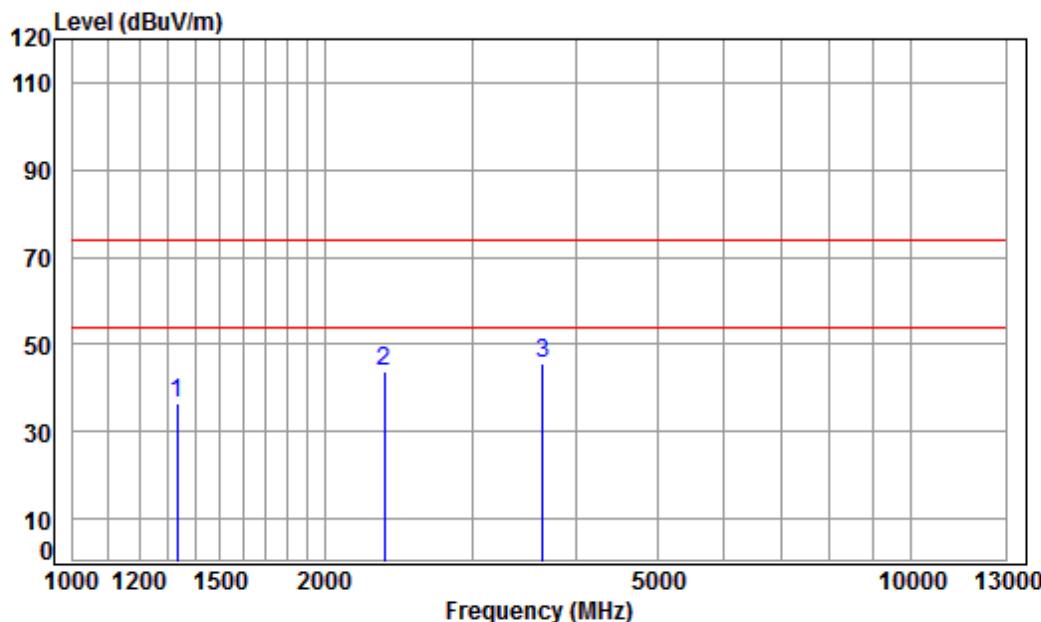
Condition: 3m HORIZONTAL

Job No : 04536RG

Mode : e

		Cable Freq	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	1190.551	4.38	24.55	41.17	49.17	36.93	74.00	-37.07	Peak	
2	2997.559	5.98	30.89	42.10	48.92	43.69	74.00	-30.31	Peak	
3	pp 4495.425	7.55	33.59	42.42	51.89	50.61	74.00	-23.39	Peak	

Mode:e; Polarization:Vertical



Condition: 3m VERTICAL

Job No : 04536RG

Mode : e

		Cable Freq	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	1332.790	4.92	25.16	41.29	47.89	36.68	74.00	-37.32	Peak	
2	2355.359	5.43	28.46	41.86	51.93	43.96	74.00	-30.04	Peak	
3 pp	3642.734	6.62	32.00	42.25	49.33	45.70	74.00	-28.30	Peak	

7 Photographs

- 7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup**
- 7.2 Radiated Emissions (30MHz-1GHz) Test Setup**
- 7.3 EUT Constructional Details (EUT Photos)**

- End of the Report -