

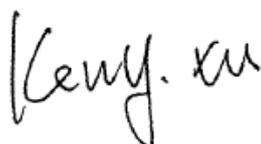
# TEST REPORT

**Application No.:** SZEM1904012967CR (HR/2019/30012)  
**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

**Equipment Under Test (EUT):**  
**EUT Name:** Smart Phone  
**Model No.:** VOG-L04m  
**Trade mark:** HUAWEI  
**FCC ID:** QISVOG-L04M  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2019-04-19  
**Date of Test:** 2019-04-20 to 2019-04-30  
**Date of Issue:** 2019-05-01

<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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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2019-05-01		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	

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: HW-100400U00, HW-100400E00, HW-100400B00, HW-100400A00
Cable:	USB cable: 100cm shielded Earphone cable: 115cm unshielded

Adapter no.	Model no.	Trademark/Manufacture
1	HW-100400U00	HuaweiTechnologies Co., Ltd.
2	HW-100400E00	HuaweiTechnologies Co., Ltd.
3	HW-100400B00	HuaweiTechnologies Co., Ltd.
4	HW-100400A00	HuaweiTechnologies Co., Ltd.

Earphone no.	Model no.	Manufacturer
1	MEND1632B729000	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.
2	Windy-C	GoerTek Inc.
3	1331-3301-6001-TC-296	Boluo County Quancheng Electronic Co., Ltd.
4	618017	Foster Electric Co.,(GuangZhou)LTD.Sales Dep.

USB cable no.	Model no.	Manufacturer
1	330-50465	HUIZHOU DEHONG TECHNOLOGY CO., LTD.
2	L99UC117-CS-H	LUXSHARE Precision Industry Co., Ltd.
3	WA0009	NingBo Broad Telecommunication Co.,Ltd.

Battery no.	Model no.	Manufacturer
1	Battery Model: HB486486ECW	HuaweiTechnologies Co.,Ltd.(DESAY)
2	Rated capacity:4100mAh	HuaweiTechnologies Co.,Ltd.(SCUD)

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	ASUS	A556U	FBN0CV921312487
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200



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### 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.

• **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.



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#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



## 5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11
LISN	Rohde & Schwarz	ENV216	SEM007-01	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
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018-07-12	2019-07-11
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019-04-01	2020-03-31
Trilog-Broadband Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2019-04-12	2020-04-11

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: 21.6 °C Humidity: 58 % RH Atmospheric Pressure: 1015 mbar

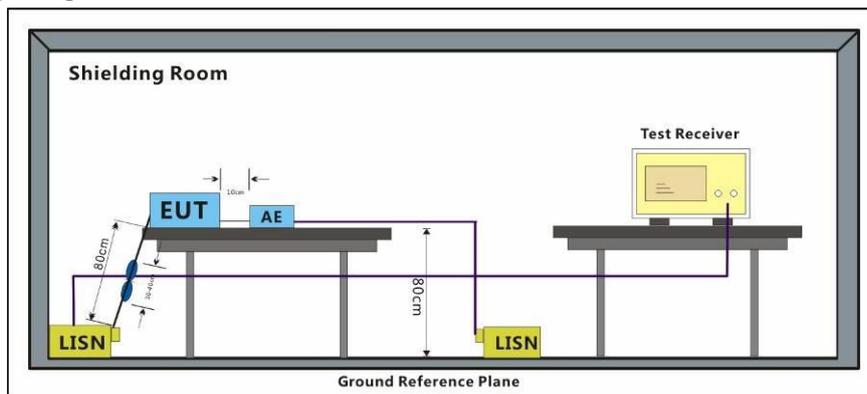
Pretest these modes to find the worst case:

- h: Transfer data between the EUT1 and the PC+USB cable1
- k: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+battery1+adapter1
- l: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+battery2+adapter2
- m: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)+battery(worst)+adapter3
- n: GSM 850+BT+WLAN+NFC+GPS Rx+battery(worst)+adapter4

The worst case for final test:

- h: Transfer data between the EUT1 and the PC+USB cable1
- k: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+battery1+adapter1
- l: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+battery2+adapter2
- m: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)+battery(worst)+adapter3
- n: GSM 850+BT+WLAN+NFC+GPS Rx+battery(worst)+adapter4

### 6.1.2 Test Setup Diagram



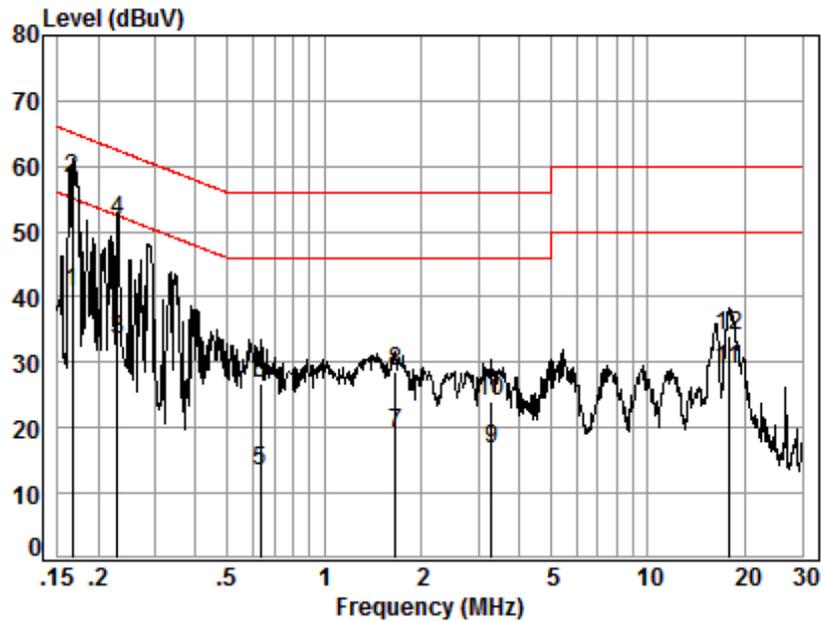
### 6.1.3 Measurement Data

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:h; Line:Live Line



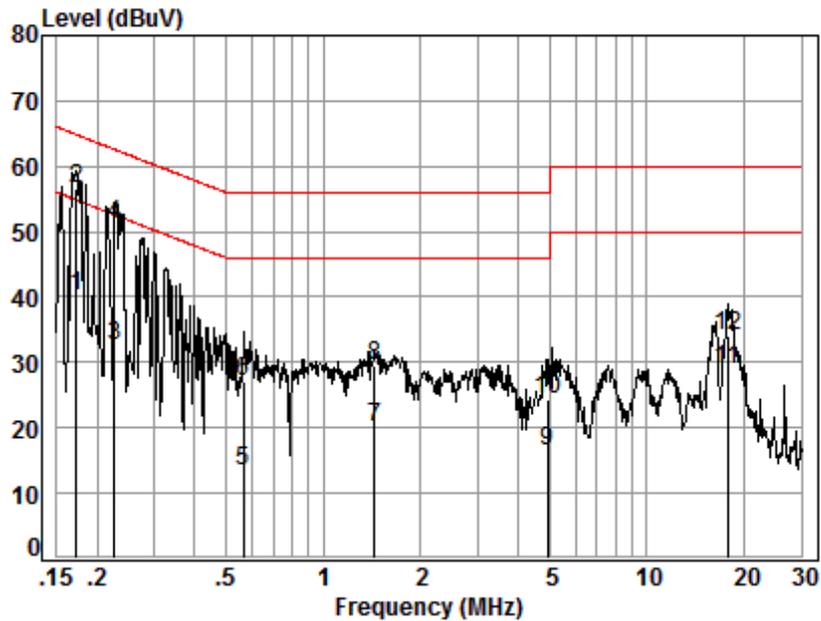
Site : Shielding Room  
 Condition: Line  
 Job No. : 12967CR  
 Test mode: h

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.01	9.66	30.99	40.66	55.16	-14.50	Average
2	0.17	0.01	9.66	48.44	58.11	65.16	-7.05	QP
3	0.23	0.03	9.67	23.63	33.33	52.48	-19.15	Average
4	0.23	0.03	9.67	41.97	51.67	62.48	-10.81	QP
5	0.63	0.07	9.67	3.74	13.48	46.00	-32.52	Average
6	0.63	0.07	9.67	17.02	26.76	56.00	-29.24	QP
7	1.66	0.14	9.73	9.18	19.05	46.00	-26.95	Average
8	1.66	0.14	9.73	18.58	28.45	56.00	-27.55	QP
9	3.28	0.16	9.71	6.76	16.63	46.00	-29.37	Average
10	3.28	0.16	9.71	14.24	24.11	56.00	-31.89	QP
11	17.75	0.23	10.18	18.50	28.91	50.00	-21.09	Average
12	17.75	0.23	10.18	23.68	34.09	60.00	-25.91	QP



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Mode:h; Line:Neutral Line



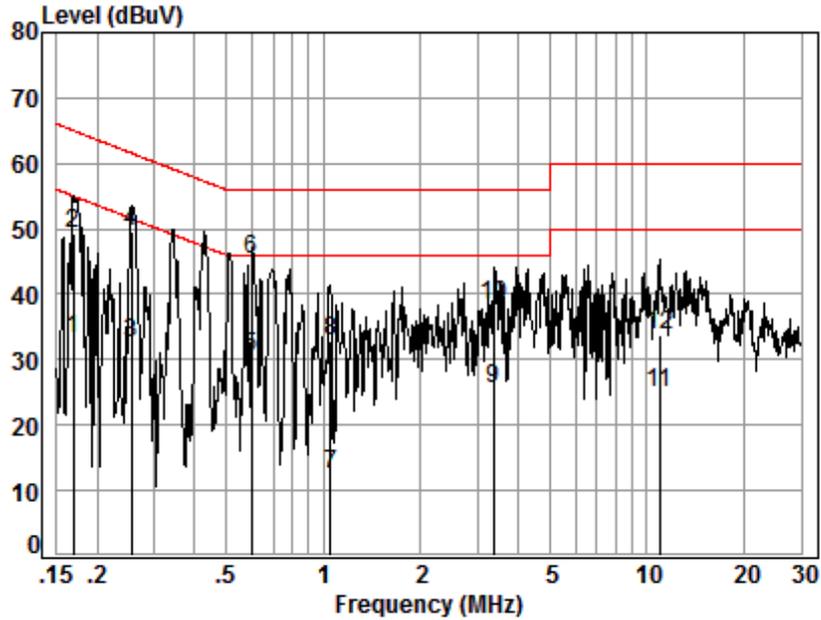
Site : Shielding Room  
 Condition: Neutral  
 Job No. : 12967CR  
 Test mode: h

	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	9.64	30.48	40.14	54.81	-14.67	Average
2	0.17	0.02	9.64	46.99	56.65	64.81	-8.16	QP
3	0.23	0.03	9.64	22.87	32.54	52.57	-20.03	Average
4	0.23	0.03	9.64	41.41	51.08	62.57	-11.49	QP
5	0.57	0.07	9.64	3.82	13.53	46.00	-32.47	Average
6	0.57	0.07	9.64	17.47	27.18	56.00	-28.82	QP
7	1.44	0.13	9.70	10.11	19.94	46.00	-26.06	Average
8	1.44	0.13	9.70	19.74	29.57	56.00	-26.43	QP
9	4.93	0.17	9.71	6.51	16.39	46.00	-29.61	Average
10	4.93	0.17	9.71	14.46	24.34	56.00	-31.66	QP
11	17.75	0.23	10.22	18.59	29.04	50.00	-20.96	Average
12	17.75	0.23	10.22	23.74	34.19	60.00	-25.81	QP



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Mode:k; Line:Live Line



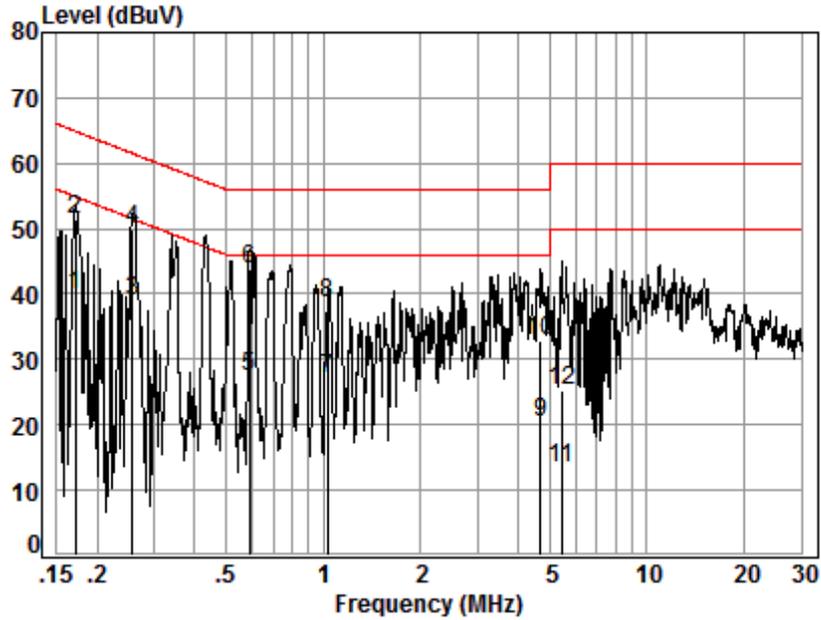
Site : Shielding Room  
 Condition: Line  
 Job No. : 12967CR  
 Test mode: k

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.01	9.66	23.47	33.14	55.03	-21.89	Average
2	0.17	0.01	9.66	39.54	49.21	65.03	-15.82	QP
3	0.25	0.03	9.67	22.86	32.56	51.60	-19.04	Average
4	0.25	0.03	9.67	39.74	49.44	61.60	-12.16	QP
5	0.60	0.07	9.67	20.72	30.46	46.00	-15.54	Average
6	0.60	0.07	9.67	35.52	45.26	56.00	-10.74	QP
7	1.05	0.09	9.74	2.59	12.42	46.00	-33.58	Average
8	1.05	0.09	9.74	23.03	32.86	56.00	-23.14	QP
9	3.35	0.16	9.71	15.82	25.69	46.00	-20.31	Average
10	3.35	0.16	9.71	28.49	38.36	56.00	-17.64	QP
11	10.96	0.18	9.96	14.84	24.98	50.00	-25.02	Average
12	10.96	0.18	9.96	23.71	33.85	60.00	-26.15	QP



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Mode:k; Line:Neutral Line



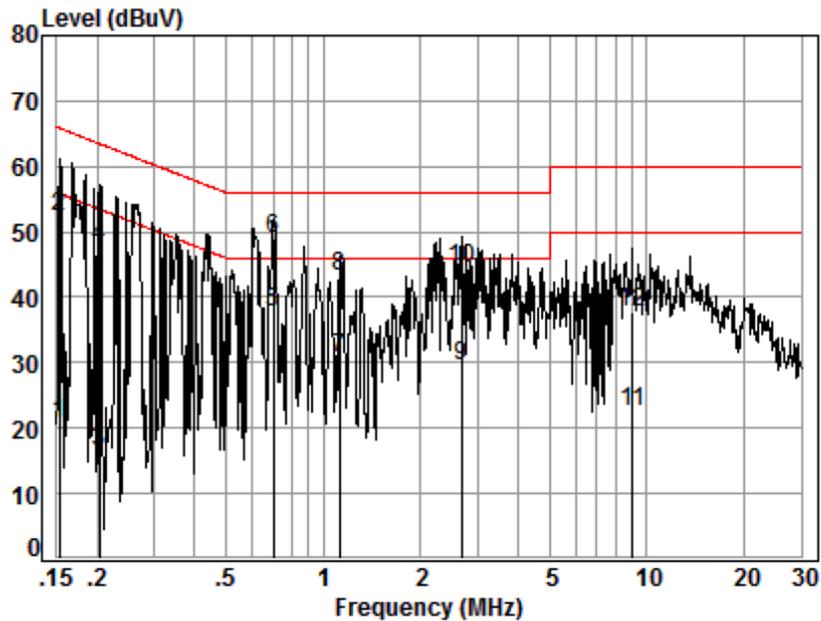
Site : Shielding Room  
 Condition: Neutral  
 Job No. : 12967CR  
 Test mode: k

	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	9.64	30.23	39.89	54.90	-15.01	Average
2	0.17	0.02	9.64	41.72	51.38	64.90	-13.52	QP
3	0.26	0.03	9.64	29.19	38.86	51.51	-12.65	Average
4	0.26	0.03	9.64	40.25	49.92	61.51	-11.59	QP
5	0.59	0.07	9.64	17.69	27.40	46.00	-18.60	Average
6	0.59	0.07	9.64	33.97	43.68	56.00	-12.32	QP
7	1.03	0.09	9.71	17.30	27.10	46.00	-18.90	Average
8	1.03	0.09	9.71	28.91	38.71	56.00	-17.29	QP
9	4.70	0.17	9.70	10.49	20.36	46.00	-25.64	Average
10	4.70	0.17	9.70	23.08	32.95	56.00	-23.05	QP
11	5.45	0.17	9.72	3.52	13.41	50.00	-36.59	Average
12	5.45	0.17	9.72	15.23	25.12	60.00	-34.88	QP



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Mode:m; Line:Live Line



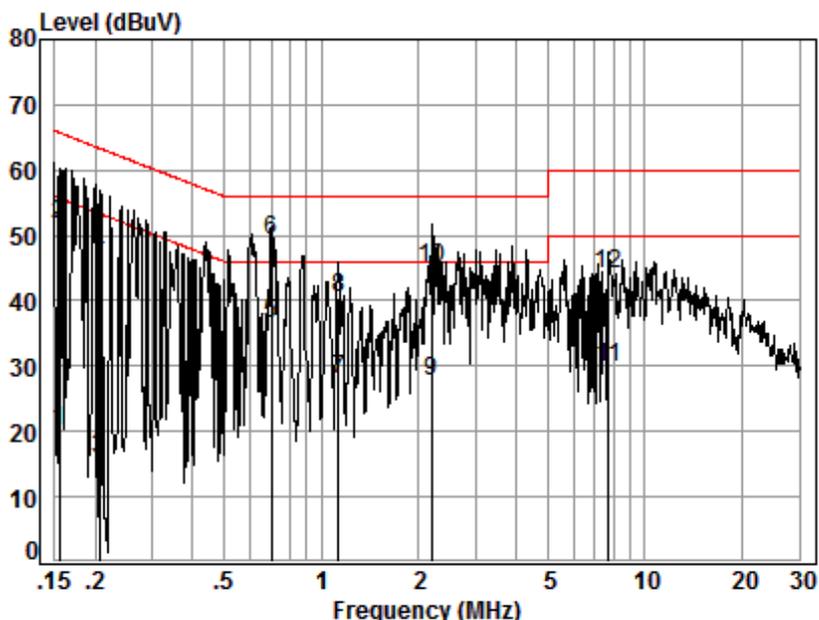
Site : Shielding Room  
 Condition: Line  
 Job No. : 12967CR  
 Test mode: m

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.66	10.92	20.59	55.87	-35.28	Average
2	0.15	0.01	9.66	42.66	52.33	65.87	-13.54	QP
3	0.20	0.02	9.66	6.77	16.45	53.49	-37.04	Average
4	0.20	0.02	9.66	37.94	47.62	63.49	-15.87	QP
5	0.70	0.07	9.68	28.01	37.76	46.00	-8.24	Average
6	0.70	0.07	9.68	39.13	48.88	56.00	-7.12	QP
7	1.12	0.10	9.73	20.85	30.68	46.00	-15.32	Average
8	1.12	0.10	9.73	33.24	43.07	56.00	-12.93	QP
9	2.66	0.16	9.71	19.63	29.50	46.00	-16.50	Average
10	2.66	0.16	9.71	34.59	44.46	56.00	-11.54	QP
11	9.01	0.17	9.83	12.60	22.60	50.00	-27.40	Average
12	9.01	0.17	9.83	27.68	37.68	60.00	-22.32	QP



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Mode:m; Line:Neutral Line



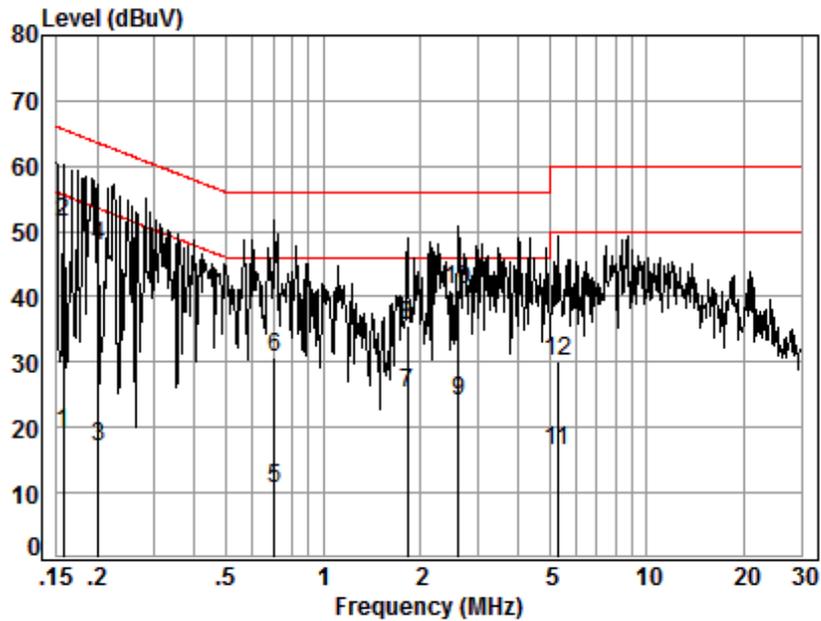
Site : Shielding Room  
 Condition: Neutral  
 Job No. : 12967CR  
 Test mode: m

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.15	0.01	9.63	10.55	20.19	55.74	-35.55 Average
2	0.15	0.01	9.63	41.98	51.62	65.74	-14.12 QP
3	0.21	0.02	9.64	6.24	15.90	53.36	-37.46 Average
4	0.21	0.02	9.64	37.51	47.17	63.36	-16.19 QP
5	0.70	0.07	9.65	26.87	36.59	46.00	-9.41 Average
6	0.70	0.07	9.65	39.63	49.35	56.00	-6.65 QP
7	1.13	0.10	9.70	18.11	27.91	46.00	-18.09 Average
8	1.13	0.10	9.70	30.56	40.36	56.00	-15.64 QP
9	2.19	0.16	9.69	17.96	27.81	46.00	-18.19 Average
10	2.19	0.16	9.69	35.13	44.98	56.00	-11.02 QP
11	7.73	0.17	9.78	19.96	29.91	50.00	-20.09 Average
12	7.73	0.17	9.78	34.06	44.01	60.00	-15.99 QP



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Mode:n; Line:Live Line



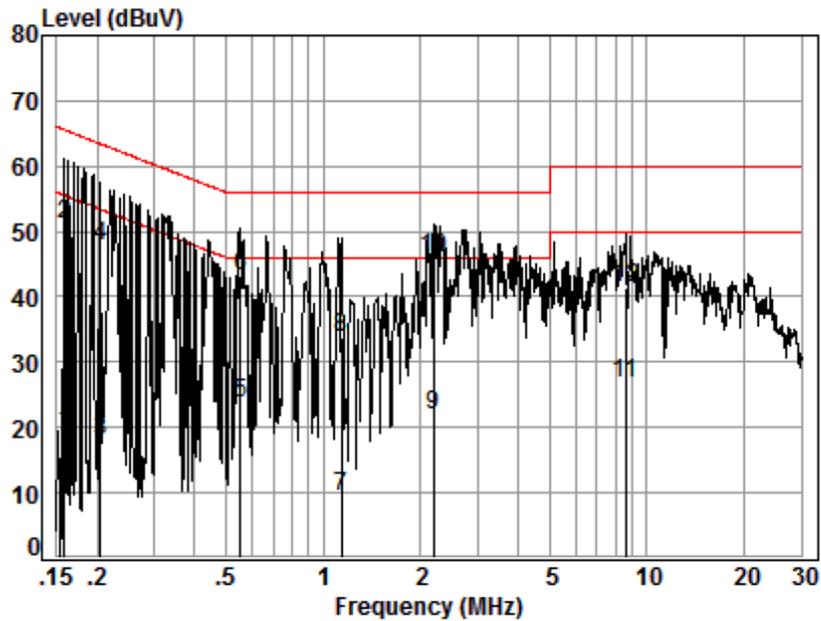
Site : Shielding Room  
 Condition: Line  
 Job No. : 12967CR  
 Test mode: n

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.16	0.01	9.66	9.62	19.29	55.60	-36.31 Average
2	0.16	0.01	9.66	41.69	51.36	65.60	-14.24 QP
3	0.20	0.02	9.66	7.21	16.89	53.54	-36.65 Average
4	0.20	0.02	9.66	38.11	47.79	63.54	-15.75 QP
5	0.70	0.08	9.68	0.91	10.67	46.00	-35.33 Average
6	0.70	0.08	9.68	20.98	30.74	56.00	-25.26 QP
7	1.82	0.15	9.72	15.40	25.27	46.00	-20.73 Average
8	1.82	0.15	9.72	25.58	35.45	56.00	-20.55 QP
9	2.61	0.16	9.71	14.02	23.89	46.00	-22.11 Average
10	2.61	0.16	9.71	31.09	40.96	56.00	-15.04 QP
11	5.28	0.17	9.75	6.36	16.28	50.00	-33.72 Average
12	5.28	0.17	9.75	20.16	30.08	60.00	-29.92 QP



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Mode:n; Line:Neutral Line



Site : Shielding Room  
 Condition: Neutral  
 Job No. : 12967CR  
 Test mode: n

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.16	0.01	9.63	9.59	19.23	55.56	-36.33 Average
2	0.16	0.01	9.63	41.56	51.20	65.56	-14.36 QP
3	0.20	0.02	9.64	8.34	18.00	53.45	-35.45 Average
4	0.20	0.02	9.64	38.24	47.90	63.45	-15.55 QP
5	0.56	0.06	9.64	13.98	23.68	46.00	-22.32 Average
6	0.56	0.06	9.64	33.49	43.19	56.00	-12.81 QP
7	1.14	0.10	9.70	-0.22	9.58	46.00	-36.42 Average
8	1.14	0.10	9.70	23.90	33.70	56.00	-22.30 QP
9	2.19	0.16	9.69	11.91	21.76	46.00	-24.24 Average
10	2.19	0.16	9.69	35.95	45.80	56.00	-10.20 QP
11	8.59	0.17	9.81	16.94	26.92	50.00	-23.08 Average
12	8.59	0.17	9.81	31.39	41.37	60.00	-18.63 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:	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



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**6.2.1 E.U.T. Operation**

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case:

- h: Transfer data between the EUT1 and the PC+USB cable1
- i: Transfer data between the EUT2 and the PC+USB cable2
- j: Transfer data between the EUT(worst) and the PC+USB cable3
- k: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+earphone1/adapter1+battery1
- l: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+earphone2/adapter2+battery2
- m: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)+earphone3/adapter3+battery(worst)
- n: GSM 850+BT+WLAN+NFC+GPS Rx+earphone4/adapter4+battery(worst)
- o: GSM 1900+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- p: WCDMA Band II+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- q: WCDMA Band IV+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- r: WCDMA Band V+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- s: LTE band 2+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- t: LTE band 4+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- u: LTE band 5+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- v: LTE band 7+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- w: LTE band 26+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- x: LTE band 38+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- y: LTE band 40+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- z: LTE band 41+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)

The worst case for final test:

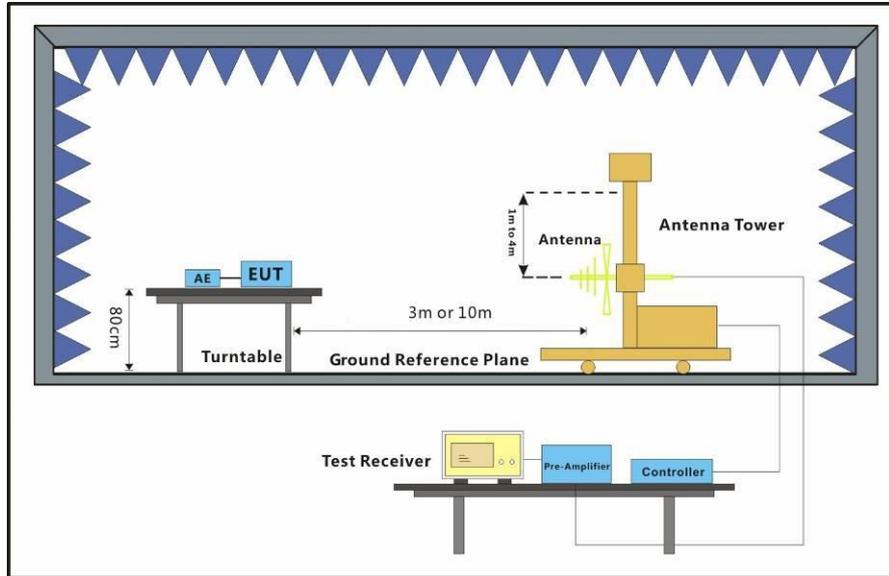
- h: Transfer data between the EUT1 and the PC+USB cable1
- i: Transfer data between the EUT2 and the PC+USB cable2
- j: Transfer data between the EUT2 and the PC+USB cable3
- k: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+adapters1+battery1
- l: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+ adapters2+battery2



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m: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back) + adapter3+battery2  
 n: GSM 850+BT+WLAN+NFC+GPS Rx+adapter4+battery2

**6.2.2 Test Setup Diagram**



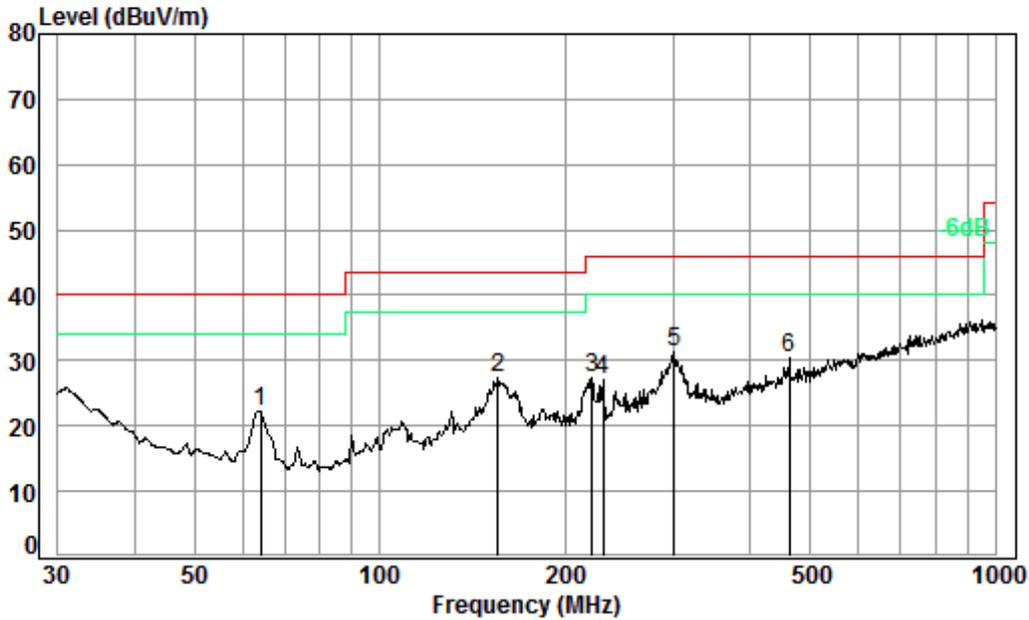
**6.2.3 Measurement Data**

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:h; Polarization:Horizontal



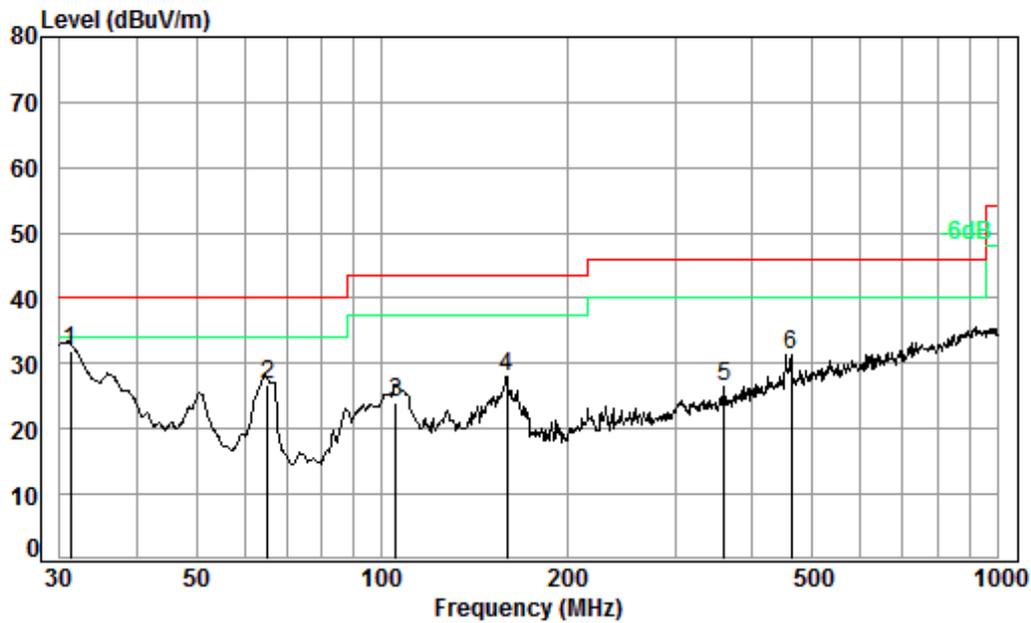
Condition: 3m HORIZONTAL  
 Job No. : 12967CR  
 Test Mode: h

	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	63.98	0.80	13.03	27.55	35.87	22.15	40.00	-17.85
2	155.91	1.33	15.15	27.52	38.28	27.24	43.50	-16.26
3	221.39	1.52	17.32	27.53	36.11	27.42	46.00	-18.58
4	230.91	1.58	18.09	27.53	35.05	27.19	46.00	-18.81
5 pp	301.42	1.90	19.65	27.54	37.32	31.33	46.00	-14.67
6	462.35	2.46	23.83	27.83	32.05	30.51	46.00	-15.49



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Mode:h; Polarization:Vertical



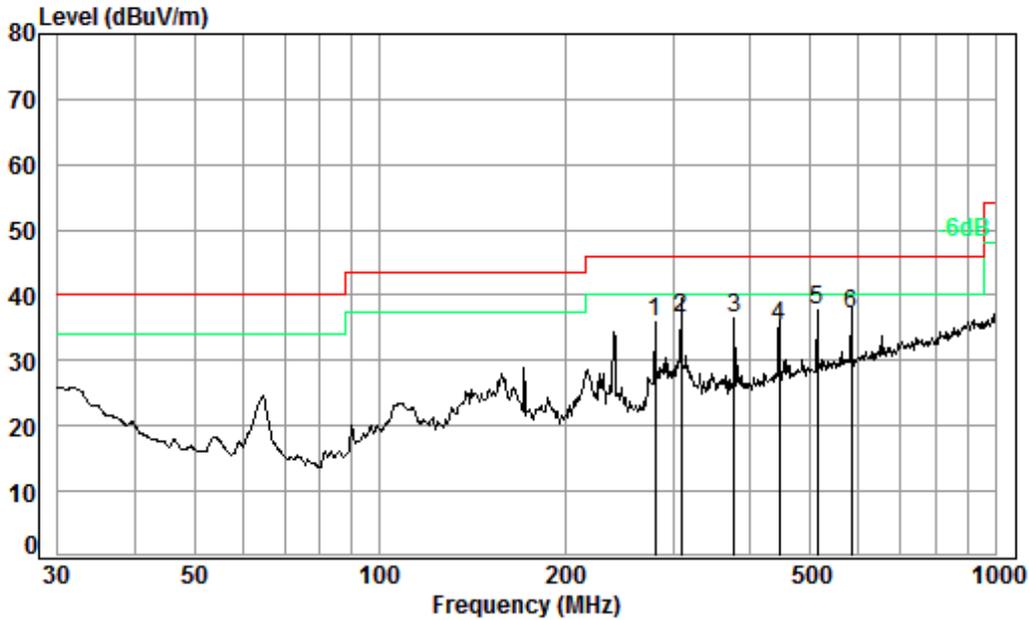
Condition: 3m VERTICAL  
 Job No. : 12967CR  
 Test Mode: h

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	31.18	0.60	21.83	27.45	37.09	40.00	-7.93
2	65.34	0.80	12.98	27.39	40.31	40.00	-13.30
3	105.64	1.22	13.73	27.31	36.26	43.50	-19.60
4	159.78	1.34	15.48	27.05	38.16	43.50	-15.57
5	360.45	2.09	21.39	26.99	30.11	46.00	-19.40
6	462.35	2.46	23.83	27.46	32.64	46.00	-14.53



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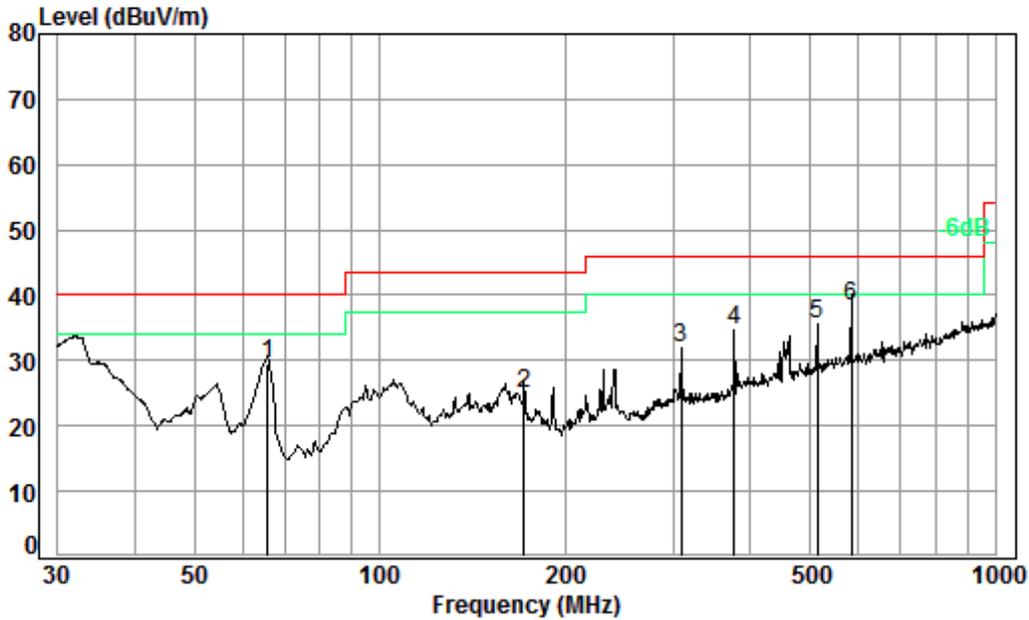
Condition: 3m HORIZONTAL  
 Job No. : 12967CR  
 Test Mode: i

	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	280.02	1.81	18.80	26.68	41.98	35.91	46.00	-10.09
2	308.91	1.93	19.88	26.70	41.47	36.58	46.00	-9.42
3	377.26	2.14	21.83	27.07	39.56	36.46	46.00	-9.54
4	446.41	2.40	23.48	27.39	36.66	35.15	46.00	-10.85
5 pp	513.63	2.62	24.90	27.66	37.76	37.62	46.00	-8.38
6	582.74	2.68	26.28	27.89	35.93	37.00	46.00	-9.00



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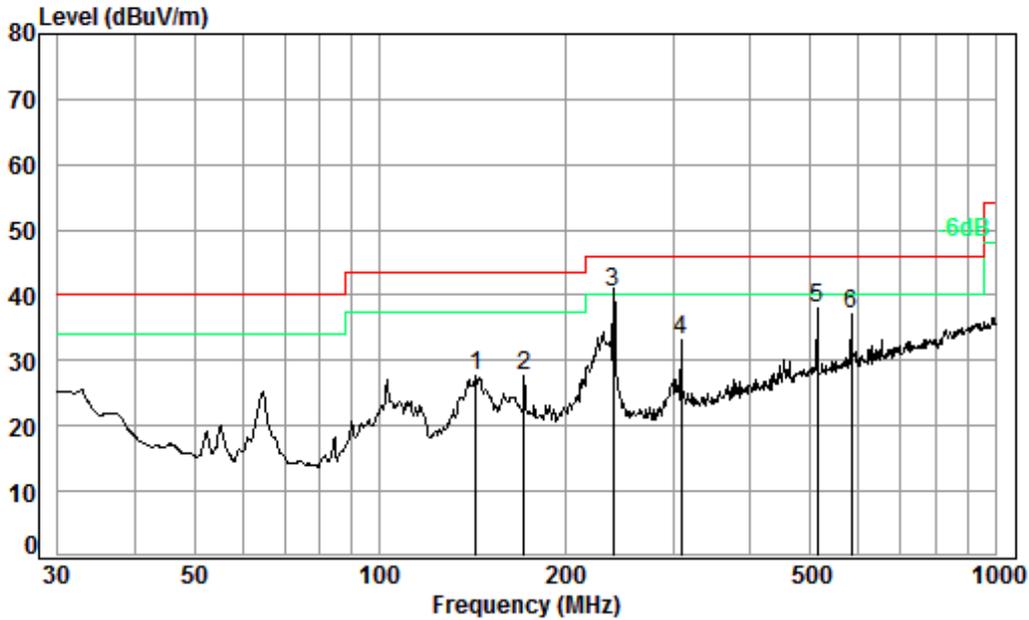
Condition: 3m VERTICAL  
 Job No. : 12967CR  
 Test Mode: i

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	65.80	0.80	12.96	27.39	43.23	29.60	40.00	-10.40
2	171.39	1.36	15.73	27.00	34.79	24.88	43.50	-18.62
3	308.91	1.93	19.88	26.70	36.94	32.05	46.00	-13.95
4	377.26	2.14	21.83	27.07	37.69	34.59	46.00	-11.41
5	513.63	2.62	24.90	27.66	35.77	35.63	46.00	-10.37
6 pp	582.74	2.68	26.28	27.89	37.21	38.28	46.00	-7.72



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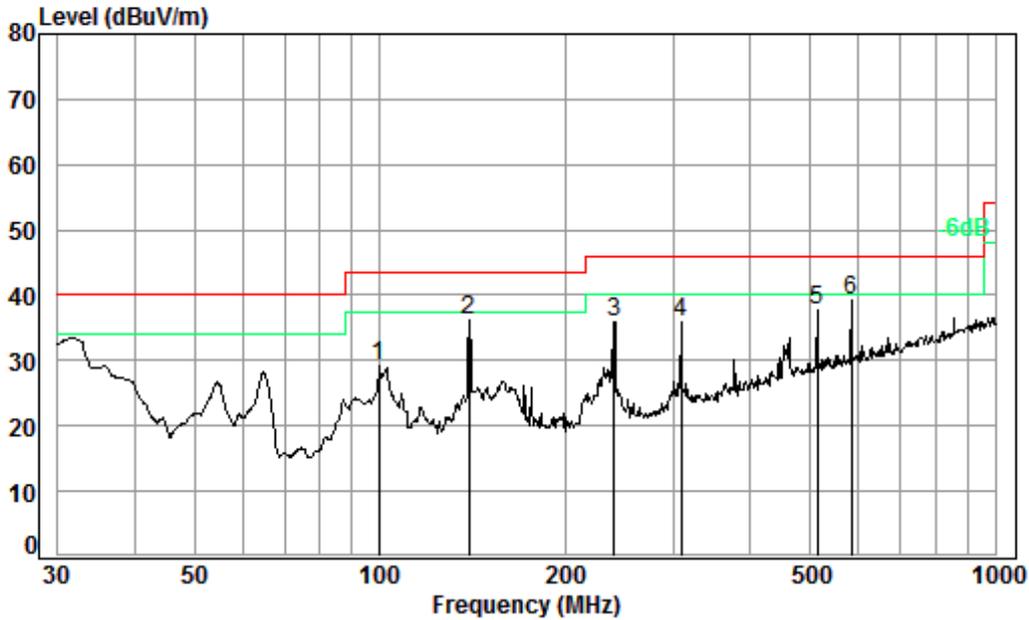
Condition: 3m HORIZONTAL  
 Job No. : 12967CR  
 Test Mode: j

	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	143.33	1.30	14.02	27.12	39.35	27.55	43.50	-15.95
2	171.39	1.36	15.73	27.00	37.58	27.67	43.50	-15.83
3 pp	239.15	1.62	18.73	26.79	47.01	40.57	46.00	-5.43
4	308.91	1.93	19.88	26.70	38.18	33.29	46.00	-12.71
5	513.63	2.62	24.90	27.66	38.31	38.17	46.00	-7.83
6	582.74	2.68	26.28	27.89	36.00	37.07	46.00	-8.93



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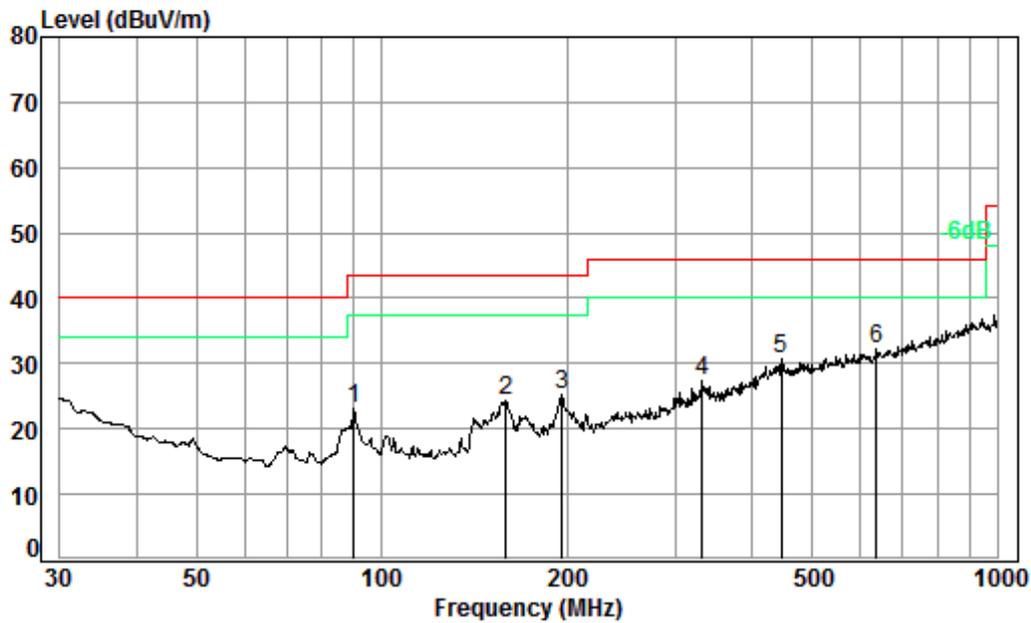
Condition: 3m VERTICAL  
 Job No. : 12967CR  
 Test Mode: j

	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	99.88	1.20	13.99	27.35	41.41	29.25	43.50	-14.25
2	139.85	1.30	13.70	27.13	48.40	36.27	43.50	-7.23
3	239.99	1.62	18.80	26.78	42.18	35.82	46.00	-10.18
4	308.91	1.93	19.88	26.70	40.63	35.74	46.00	-10.26
5	513.63	2.62	24.90	27.66	37.83	37.69	46.00	-8.31
6 pp	582.74	2.68	26.28	27.89	38.28	39.35	46.00	-6.65



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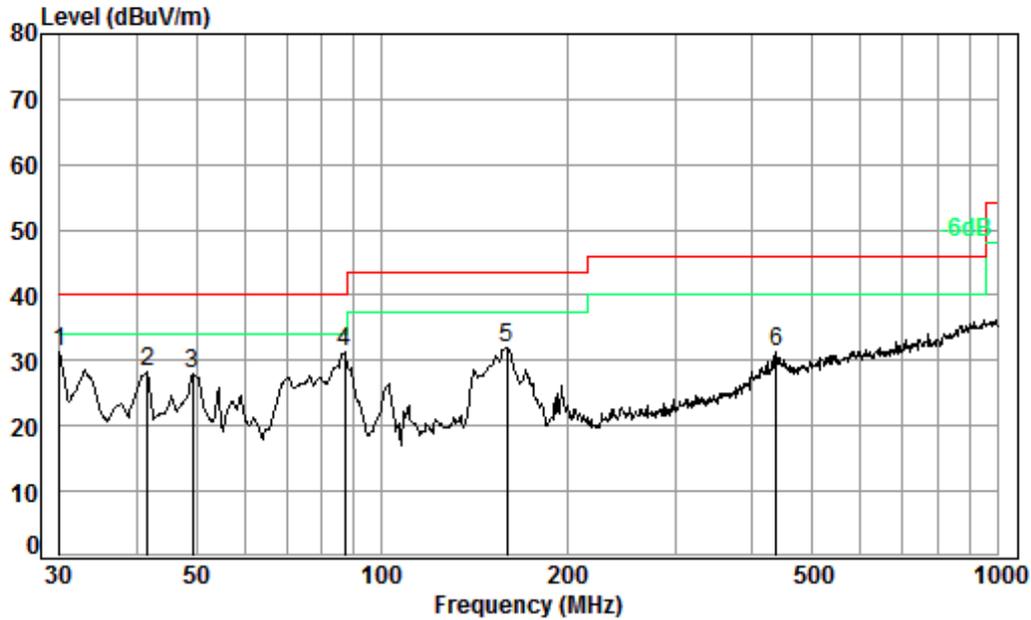
Condition: 3m HORIZONTAL  
 Job No. : 12967CR  
 Test Mode: k

	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	90.22	1.10	13.12	27.36	36.12	22.98	43.50	-20.52
2	159.23	1.33	15.43	27.05	34.72	24.43	43.50	-19.07
3	196.51	1.39	16.40	26.91	34.41	25.29	43.50	-18.21
4	331.35	2.00	20.57	26.83	31.60	27.34	46.00	-18.66
5	446.41	2.40	23.48	27.39	32.20	30.69	46.00	-15.31
6 pp	636.13	2.78	27.09	27.89	30.19	32.17	46.00	-13.83



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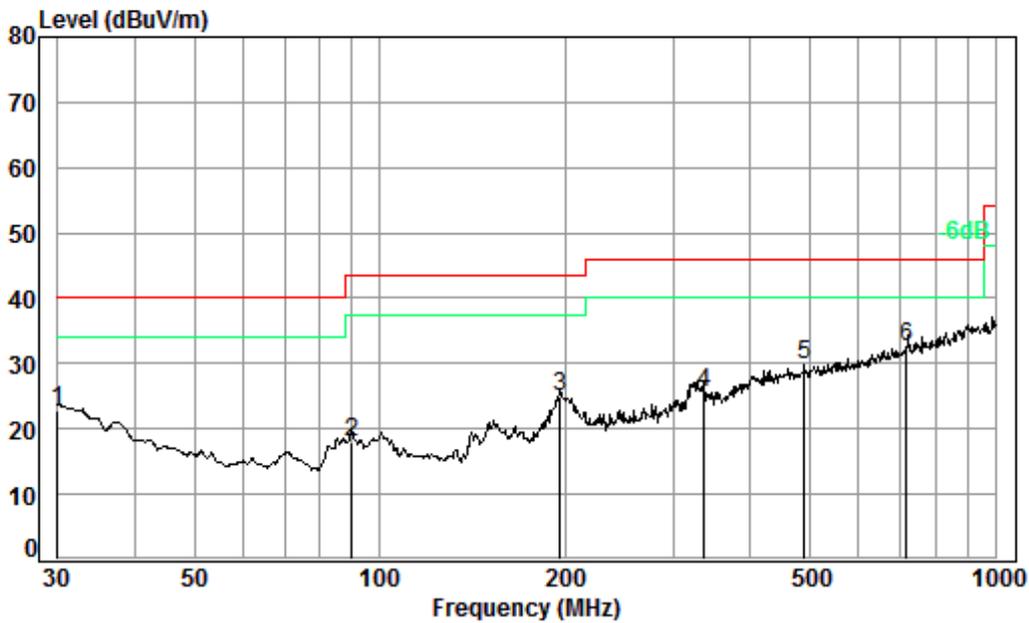
Condition: 3m VERTICAL  
 Job No. : 12967CR  
 Test Mode: k

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	30.00	0.60	22.50	27.45	35.69	31.34	40.00	-8.66
2	41.71	0.64	16.88	27.43	38.18	28.27	40.00	-11.73
3	49.36	0.79	14.39	27.41	40.35	28.12	40.00	-11.88
4	87.11	1.10	12.80	27.36	44.68	31.22	40.00	-8.78
5	159.78	1.34	15.48	27.05	42.30	32.07	43.50	-11.43
6	437.12	2.36	23.27	27.35	33.17	31.45	46.00	-14.55



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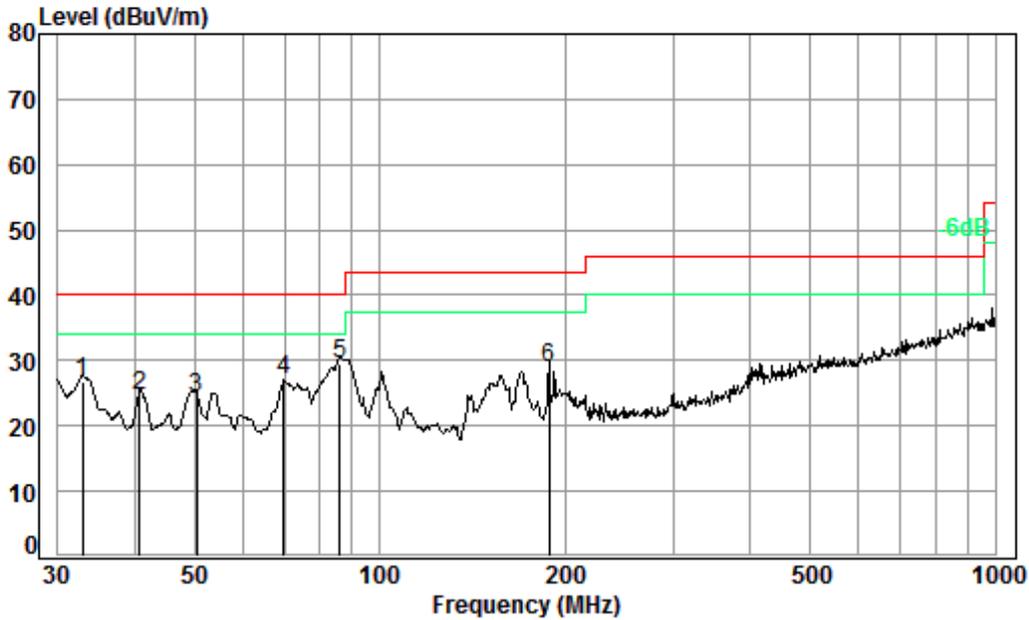
Condition: 3m HORIZONTAL  
 Job No. : 12967CR  
 Test Mode: 1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	22.50	27.45	27.14	22.79	40.00	-17.21
2	90.22	1.10	13.12	27.36	31.23	18.09	43.50	-25.41
3	196.51	1.39	16.40	26.91	34.19	25.07	43.50	-18.43
4	336.04	2.02	20.70	26.85	29.66	25.53	46.00	-20.47
5	489.03	2.56	24.38	27.56	30.36	29.74	46.00	-16.26
6 pp	716.68	2.96	28.01	27.76	29.34	32.55	46.00	-13.45



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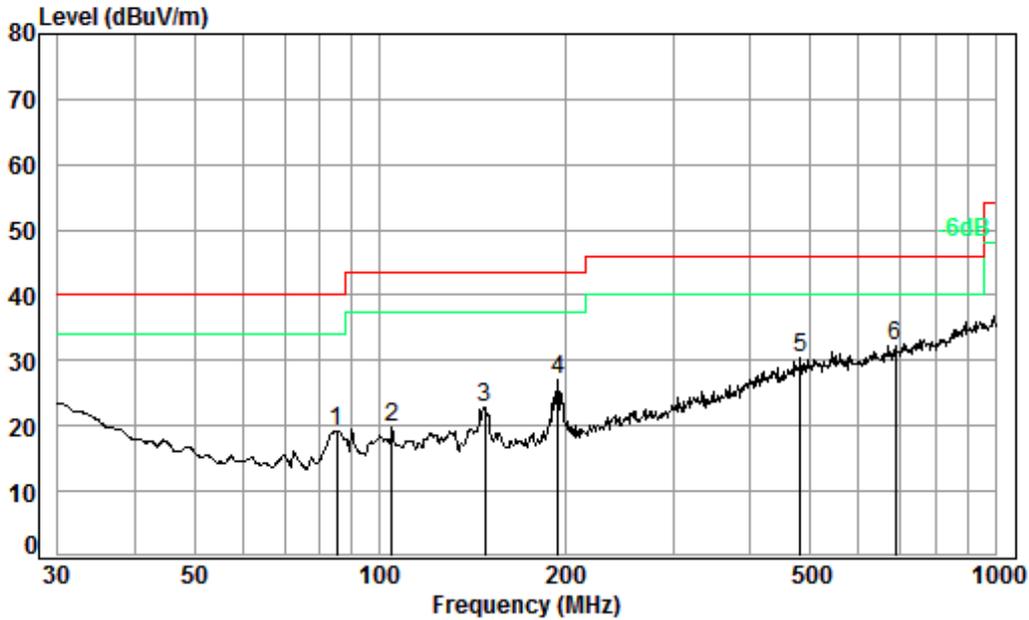
Condition: 3m VERTICAL  
 Job No. : 12967CR  
 Test Mode: 1

	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	32.86	0.60	20.92	27.45	32.80	26.87	40.00	-13.13
2	40.70	0.62	17.24	27.43	34.26	24.69	40.00	-15.31
3	50.41	0.80	14.16	27.41	36.67	24.22	40.00	-15.78
4	69.84	0.80	12.81	27.38	40.70	26.93	40.00	-13.07
5 pp	86.20	1.10	12.70	27.36	43.22	29.66	40.00	-10.34
6	188.41	1.38	16.16	26.94	38.31	28.91	43.50	-14.59



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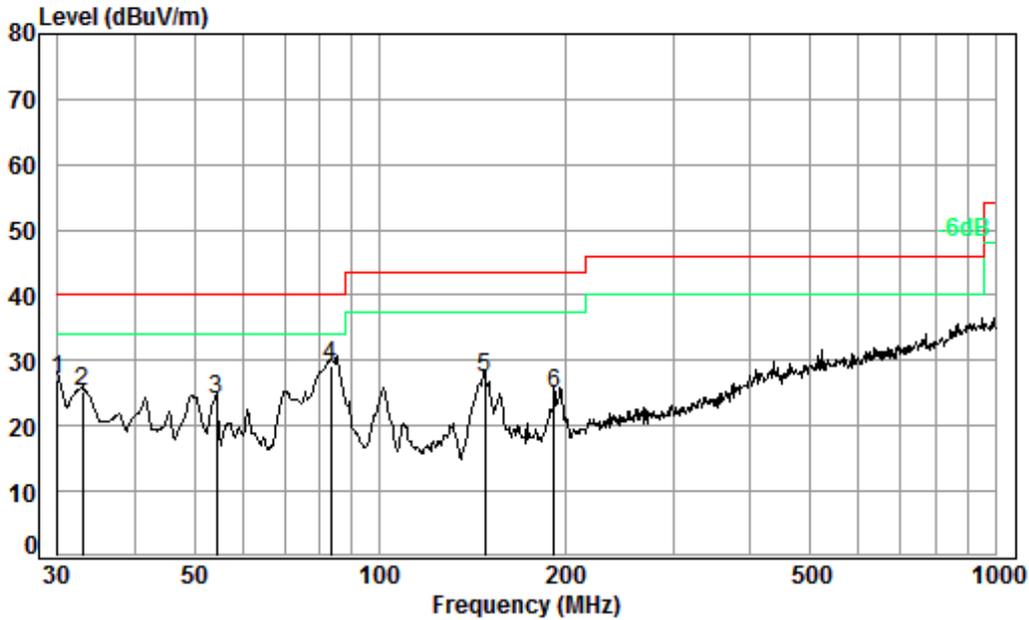
Condition: 3m HORIZONTAL  
 Job No. : 12967CR  
 Test Mode: m

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	85.30	1.10	12.60	27.36	32.91	19.25	40.00	-20.75
2	104.54	1.21	13.78	27.32	32.10	19.77	43.50	-23.73
3	148.44	1.31	14.49	27.09	34.23	22.94	43.50	-20.56
4	195.14	1.39	16.36	26.92	36.32	27.15	43.50	-16.35
5	482.22	2.54	24.24	27.54	31.13	30.37	46.00	-15.63
6 pp	687.15	2.88	27.74	27.80	29.51	32.33	46.00	-13.67



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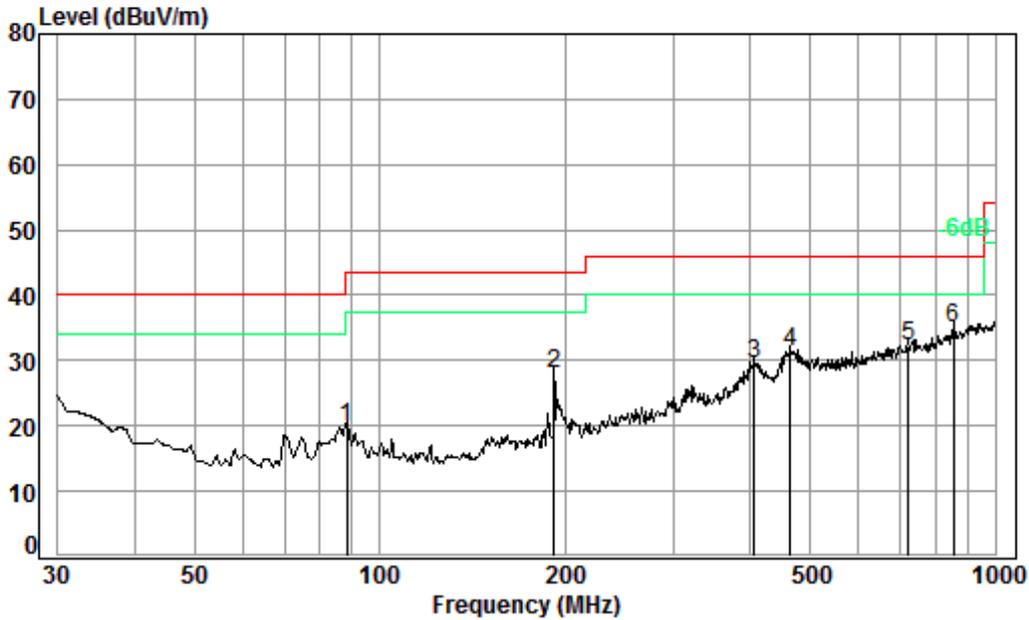
Condition: 3m VERTICAL  
 Job No. : 12967CR  
 Test Mode: m

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	22.50	27.45	31.57	27.22	40.00	-12.78
2	32.86	0.60	20.92	27.45	31.03	25.10	40.00	-14.90
3	54.26	0.80	13.75	27.40	36.77	23.92	40.00	-16.08
4 pp	83.23	1.10	12.37	27.37	43.15	29.25	40.00	-10.75
5	148.44	1.31	14.49	27.09	38.76	27.47	43.50	-16.03
6	191.75	1.39	16.26	26.93	34.21	24.93	43.50	-18.57



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Mode:n; Polarization:Horizontal



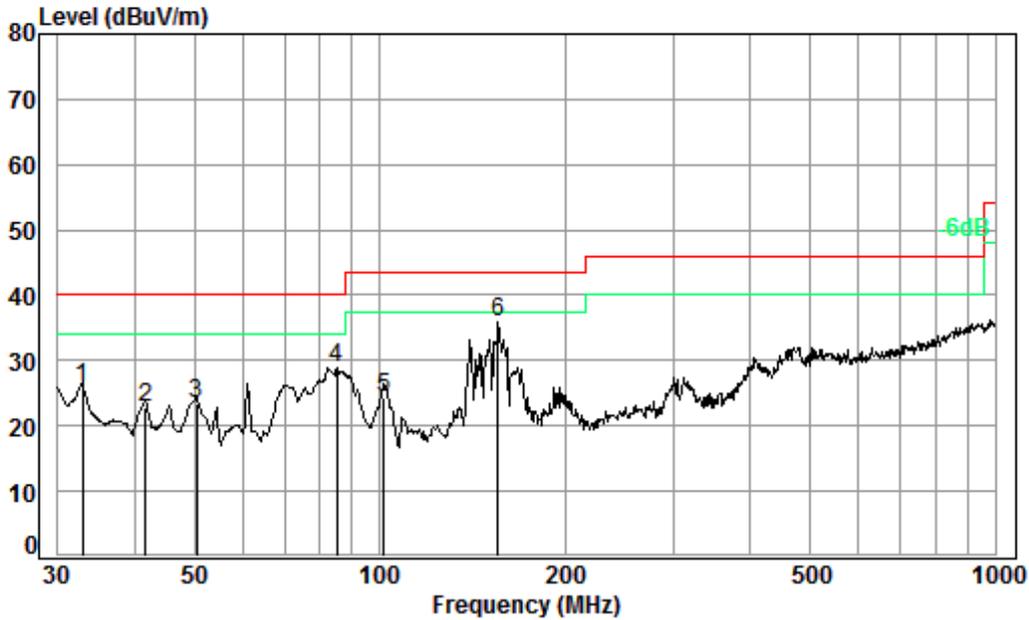
Condition: 3m HORIZONTAL  
 Job No. : 12967CR  
 Test Mode: n

	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	88.34	1.10	12.93	27.36	33.09	19.76	43.50	-23.74
2	191.75	1.39	16.26	26.93	37.34	28.06	43.50	-15.44
3	406.09	2.23	22.55	27.21	31.80	29.37	46.00	-16.63
4	463.97	2.47	23.86	27.46	32.44	31.31	46.00	-14.69
5	721.73	2.97	28.04	27.75	28.88	32.14	46.00	-13.86
6 pp	854.02	3.42	29.22	27.31	29.54	34.87	46.00	-11.13



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Mode:n; Polarization:Vertical



Condition: 3m VERTICAL  
 Job No. : 12967CR  
 Test Mode: n

	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	32.86	0.60	20.92	27.45	31.64	25.71	40.00	-14.29
2	41.71	0.64	16.88	27.43	32.80	22.89	40.00	-17.11
3	50.41	0.80	14.16	27.41	35.83	23.38	40.00	-16.62
4	85.30	1.10	12.60	27.36	42.69	29.03	40.00	-10.97
5	101.64	1.21	13.92	27.34	36.70	24.49	43.50	-19.01
6 pp	155.91	1.33	15.15	27.06	46.32	35.74	43.50	-7.76



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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  
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



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**6.3.1 E.U.T. Operation**

Operating Environment:

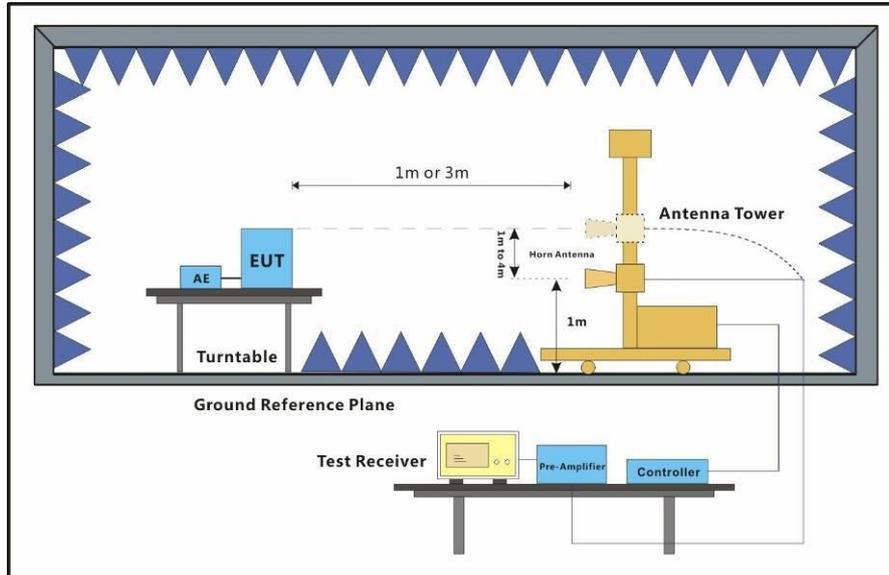
Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1015 mbar

- Pretest these modes to find the worst case:
- h: Transfer data between the EUT1 and the PC+USB cable1
  - i: Transfer data between the EUT2 and the PC+USB cable2
  - j: Transfer data between the EUT(worst) and the PC+USB cable3
  - k: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+earphone1/adapter1+battery1
  - l: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+earphone2/adapter2+battery2
  - m: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)+earphone3/adapter3+battery(worst)
  - n: GSM 850+BT+WLAN+NFC+GPS Rx+earphone4/adapter4+battery(worst)
  - o: GSM 1900+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - p: WCDMA Band II+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - q: WCDMA Band IV+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - r: WCDMA Band V+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - s: LTE band 2+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - t: LTE band 4+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - u: LTE band 5+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - v: LTE band 7+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - w: LTE band 26+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - x: LTE band 38+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - y: LTE band 40+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
  - z: LTE band 41+BT+WLAN+NFC+GPS Rx+earphone(worst)/adapter(worst)+battery(worst)
- Pretest these modes to find the worst case:
- h: Transfer data between the EUT1 and the PC+USB cable1
  - l: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)+adapter2+battery2



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**6.3.2 Test Setup Diagram**

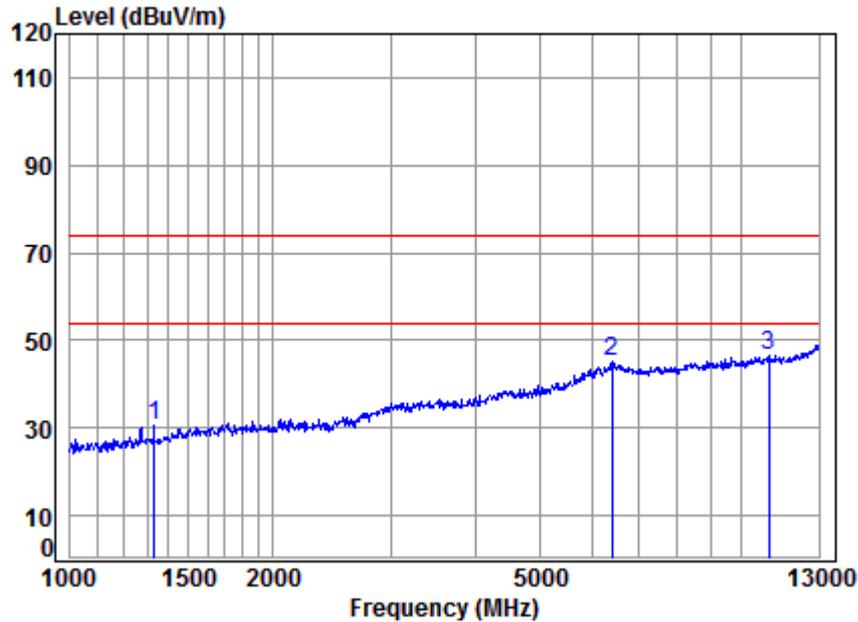


**6.3.3 Measurement Data**

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:h; Polarization:Horizontal



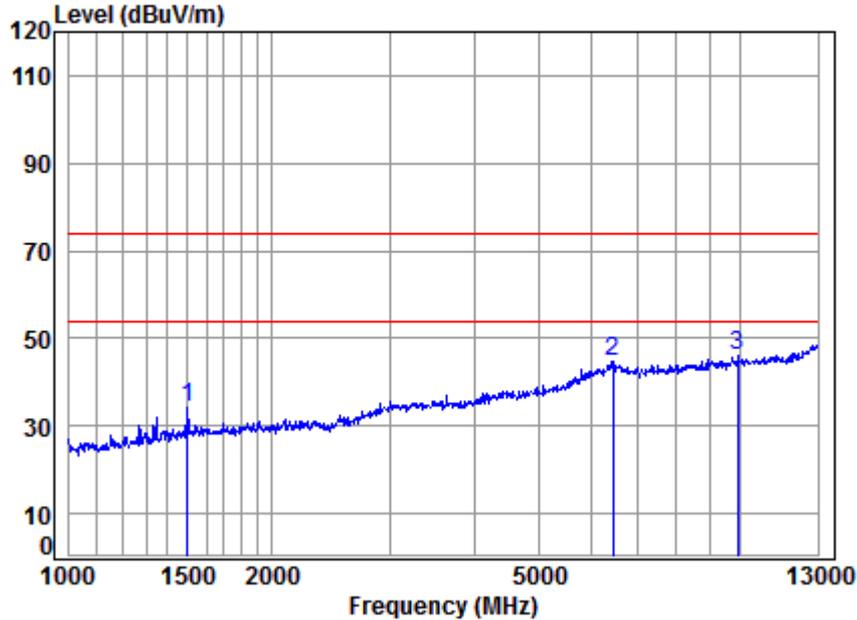
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 12967CR,13060CR  
 Mode : h

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1332.790	4.92	25.16	40.59	41.26	30.75	74.00	-43.25 Peak
2	6404.644	11.36	35.51	42.48	40.67	45.06	74.00	-28.94 Peak
3	10947.350	11.59	37.79	38.25	35.63	46.76	74.00	-27.24 Peak



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Mode:h; Polarization:Vertical



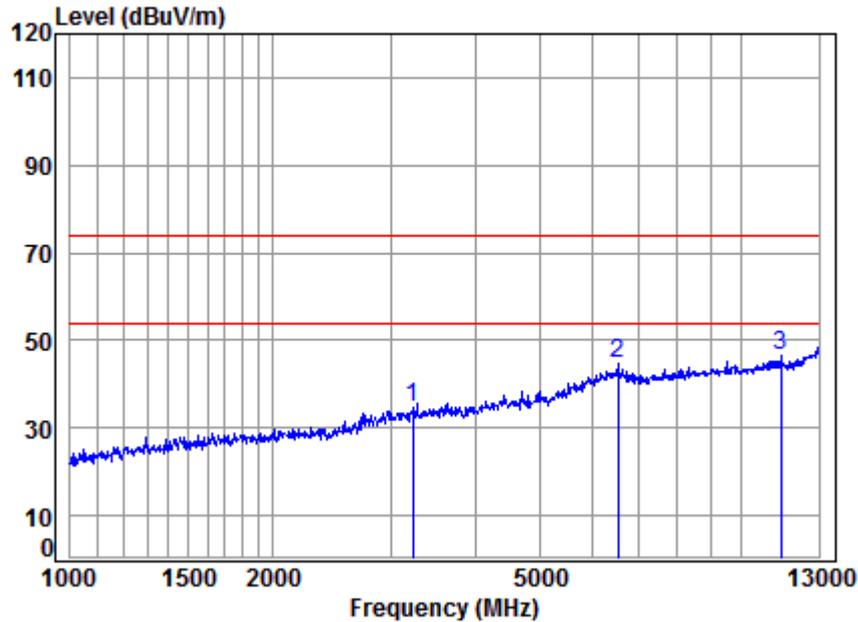
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 12967CR,13060CR  
 Mode : h

	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	1499.695	5.48	25.80	40.71	43.81	34.38	74.00	-39.62	Peak
2	6454.117	11.45	35.56	42.44	40.08	44.65	74.00	-29.35	Peak
3	9879.874	10.88	37.83	37.99	35.57	46.29	74.00	-27.71	Peak



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Mode:I; Polarization:Horizontal



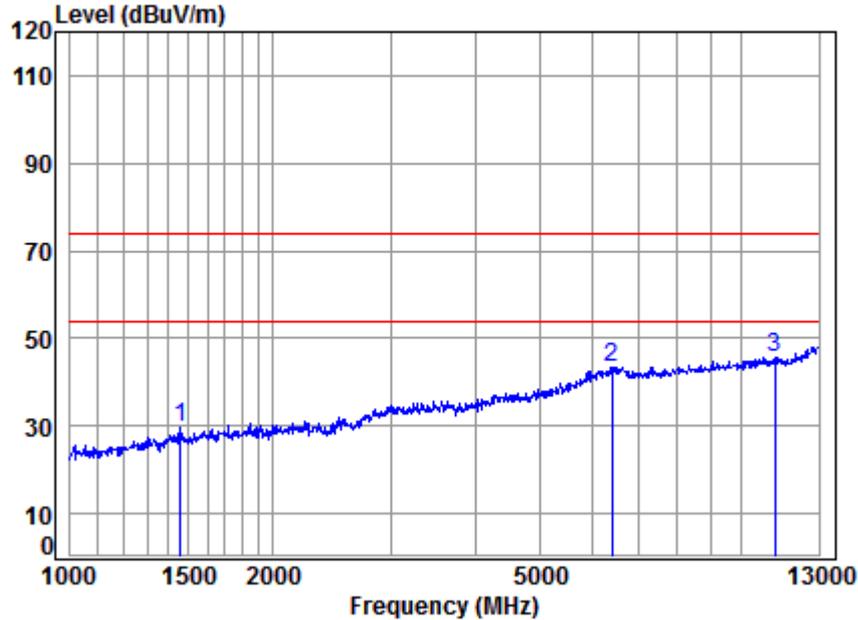
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 12967CR,13060CR  
 Mode : 1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3237.323	6.22	31.30	41.76	38.82	34.58	74.00	-39.42 Peak
2	6537.422	11.43	35.62	42.37	39.89	44.57	74.00	-29.43 Peak
3	11405.970	12.05	37.88	38.45	34.98	46.46	74.00	-27.54 Peak



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Mode:I; Polarization:Vertical



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 12967CR,13060CR  
 Mode : 1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1457.974	5.34	25.65	40.68	39.35	29.66	74.00	-44.34 Peak
2	6404.644	11.36	35.51	42.48	39.11	43.50	74.00	-30.50 Peak
3	11174.310	11.81	37.84	38.35	34.51	45.81	74.00	-28.19 Peak



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## 7 Photographs

### 7.1 Test Setup

Refer to Setup Photos

### 7.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

- End of the Report -

