TEST REPORT

Application No.:	SZEM1909018054CR
Applicant:	Livongo Health, Inc
Address of Applicant:	150 W. Evelyn, Suite 150, Mountain View, CA 94041
Manufacturer:	Livongo Health, Inc
Address of Manufacturer:	150 W. Evelyn, Suite 150, Mountain View, CA 94041
Factory:	Dongguan Kaifa Technology Co.,Ltd.
Address of Factory:	No. 2 Junma road, Chigang community, Humen town, Dongguan City, Guangdong Province,China.
Equipment Under Test (EUT):	
EUT Name:	Livongo Blood Glucose Monitoring System
Model No.:	BG1000
Trade mark:	Livongo®
FCC ID:	2AA92LV02795
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2019-09-02
Date of Test:	2019-09-02 to 2019-09-08
Date of Issue:	2019-10-30
Test Result:	**Pass***

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

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	***Chapter***	***Date***	***Modifier***	***Remark***
01		*2019-10-30*		*Original*

Authorized for issue by:				
		Damon Su **Damon Su /Project Engineer**		
		Eric Fu **Eric Fu /Reviewer**		

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2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

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3 Contents

Page

1 COVER PAGE **1**

2 TEST SUMMARY **3**

3 CONTENTS **4**

4 GENERAL INFORMATION **5**

4.1 DETAILS OF E.U.T. 5
4.2 DESCRIPTION OF SUPPORT UNITS 5
4.3 MEASUREMENT UNCERTAINTY 5
4.4 TEST LOCATION 6
4.5 TEST FACILITY 6
4.6 DEVIATION FROM STANDARDS 6
4.7 ABNORMALITIES FROM STANDARD CONDITIONS 6

5 EQUIPMENT LIST **7**

6 EMISSION TEST RESULTS **9**

6.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ) 9
6.1.1 E.U.T. Operation *9*
6.1.2 Test Setup Diagram *10*
6.1.3 Measurement Data *10*
6.2 RADIATED EMISSIONS (30MHZ-1GHZ) 19
6.2.1 E.U.T. Operation *19*
6.2.2 Test Setup Diagram *20*
6.2.3 Measurement Data *20*
6.3 RADIATED EMISSIONS (ABOVE 1GHZ) 29
6.3.1 E.U.T. Operation *29*
6.3.2 Test Setup Diagram *30*
6.3.3 Measurement Data *30*

7 PHOTOGRAPHS **37**

7.1 EUT TEST SETUP 37
7.2 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) 37

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.85V by rechargeable lithium battery。 Adapter model：PSAA05A-050QL6 Input: AC 100-240V, 50/60Hz, 0.2A Output: DC 5V, 1A
Cable:	USB Cable(shielded, 1.0m)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	PF-1N6C3V
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	± 3.45dB (9kHz to 150kHz)
		± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 3.1dB (9kHz-30MHz)
		± 4.5dB (30MHz-1GHz)
		± 4.8dB (1GHz-6GHz)
3	Temperature test	± 1℃
4	Humidity test	± 3%
5	DC power test	± 0.5 %

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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

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

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2019-09-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31

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

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

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General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03

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6 Emission Test Results

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

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C Humidity: 53.5 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case:

a:Transfer data between the EUT and the PC.
b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
c: Telecom Idle+BT+WLAN+camera(Front)+battery+ Cable+adapter
d: Telecom Idle+BT+WLAN+playing MP4+earphone
e: GSM 850M+BT+WLAN+battery+ Cable+adapter
f: GSM 1900M+BT+WLAN+battery+ Cable+adapter
g: WCDMA Band 2+BT+WLAN+battery+ Cable+adapter
h: WCDMA Band 4+BT+WLAN+battery+ Cable+adapter
i: WCDMA Band 5+BT+WLAN+battery+ Cable+adapter
j: LTE Band 2+BT+WLAN+battery+ Cable+adapter
k: LTE Band 4+BT+WLAN+battery+ Cable+adapter
l: LTE Band 5+BT+WLAN+battery+ Cable+adapter
m: LTE Band 12+BT+WLAN+battery+ Cable+adapter
n: LTE Band 66+BT+WLAN+battery+ Cable+adapter
o: LTE Band 71+BT+WLAN+battery+ Cable+adapter

The worst case for final test:

a:Transfer data between the EUT and the PC.
b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
e: GSM 850M+BT+WLAN+battery+ Cable+adapter
f: GSM 1900M+BT+WLAN+battery+ Cable+adapter

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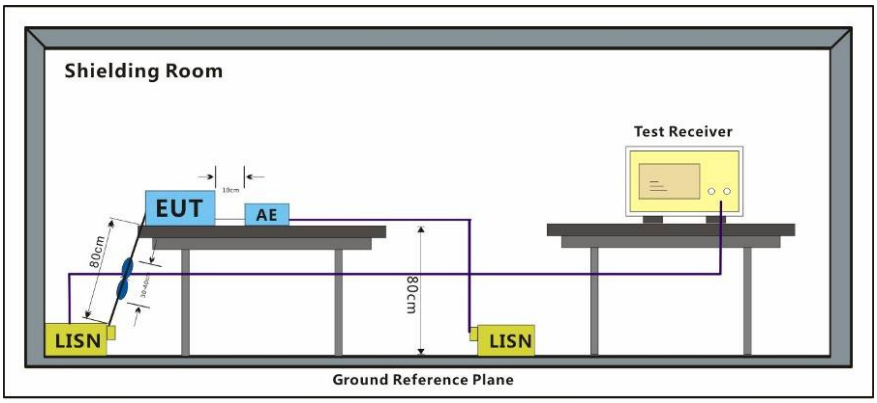
6.1.2 Test Setup Diagram



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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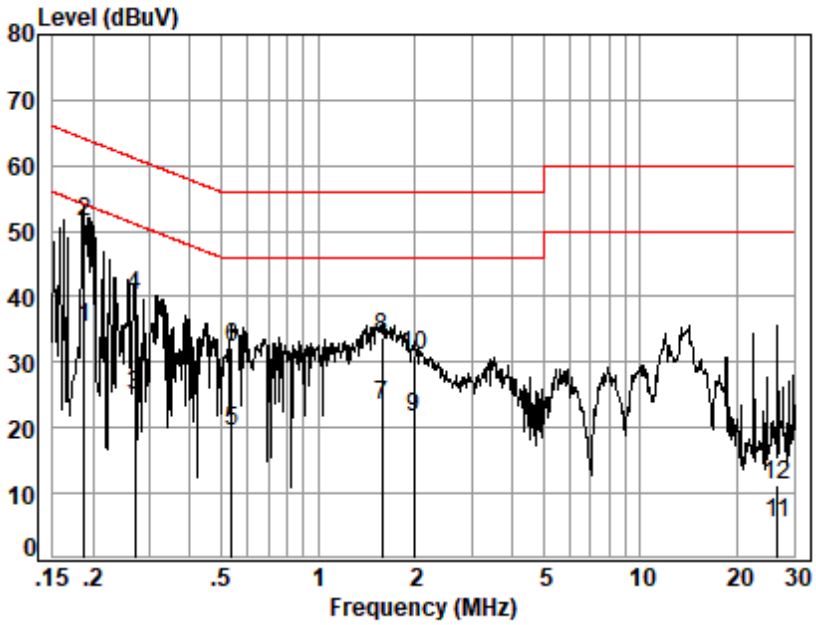
Mode:a; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 18054CR
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.66	25.57	35.25	54.15	-18.90	Average
2	0.19	0.02	9.66	41.79	51.47	64.15	-12.68	QP
3	0.27	0.03	9.67	15.24	24.94	51.12	-26.18	Average
4	0.27	0.03	9.67	30.50	40.20	61.12	-20.92	QP
5	0.54	0.06	9.67	9.62	19.35	46.00	-26.65	Average
6	0.54	0.06	9.67	22.64	32.37	56.00	-23.63	QP
7	1.58	0.14	9.73	13.63	23.50	46.00	-22.50	Average
8	1.58	0.14	9.73	23.96	33.83	56.00	-22.17	QP
9	1.98	0.16	9.72	11.64	21.52	46.00	-24.48	Average
10	1.98	0.16	9.72	21.15	31.03	56.00	-24.97	QP
11	26.70	0.27	10.32	-5.07	5.52	50.00	-44.48	Average
12	26.70	0.27	10.32	0.55	11.14	60.00	-48.86	QP

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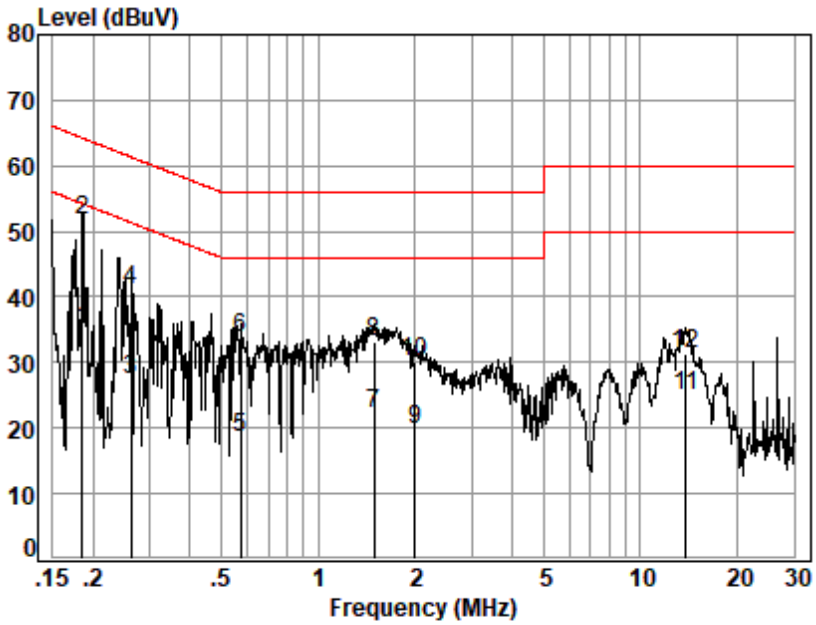
Mode:a; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 18054CR
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.64	25.44	35.10	54.24	-19.14	Average
2	0.19	0.02	9.64	41.91	51.57	64.24	-12.67	QP
3	0.26	0.03	9.64	17.72	27.39	51.34	-23.95	Average
4	0.26	0.03	9.64	31.48	41.15	61.34	-20.19	QP
5	0.57	0.07	9.64	8.74	18.45	46.00	-27.55	Average
6	0.57	0.07	9.64	23.99	33.70	56.00	-22.30	QP
7	1.49	0.13	9.70	12.52	22.35	46.00	-23.65	Average
8	1.49	0.13	9.70	23.26	33.09	56.00	-22.91	QP
9	2.00	0.16	9.69	9.79	19.64	46.00	-26.36	Average
10	2.00	0.16	9.69	20.12	29.97	56.00	-26.03	QP
11	13.84	0.20	10.27	14.38	24.85	50.00	-25.15	Average
12	13.84	0.20	10.27	20.75	31.22	60.00	-28.78	QP

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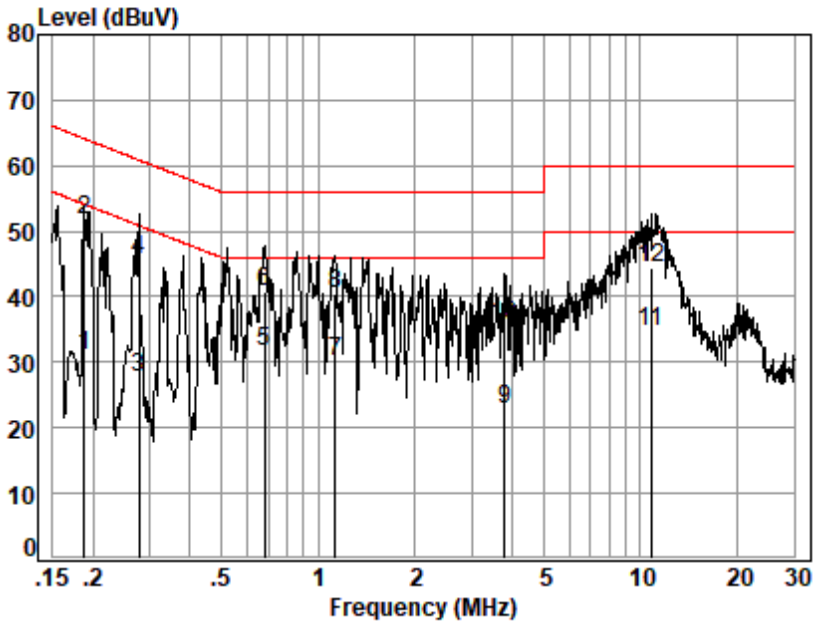
Mode:b; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 18054CR
Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.66	21.28	30.96	54.11	-23.15	Average
2	0.19	0.02	9.66	41.97	51.65	64.11	-12.46	QP
3	0.28	0.04	9.67	17.92	27.63	50.85	-23.22	Average
4	0.28	0.04	9.67	35.88	45.59	60.85	-15.26	QP
5	0.68	0.07	9.68	21.84	31.59	46.00	-14.41	Average
6	0.68	0.07	9.68	30.93	40.68	56.00	-15.32	QP
7	1.13	0.10	9.73	20.33	30.16	46.00	-15.84	Average
8	1.13	0.10	9.73	30.77	40.60	56.00	-15.40	QP
9	3.80	0.16	9.72	12.96	22.84	46.00	-23.16	Average
10	3.80	0.16	9.72	25.74	35.62	56.00	-20.38	QP
11	10.79	0.18	9.94	24.64	34.76	50.00	-15.24	Average
12	10.79	0.18	9.94	34.22	44.34	60.00	-15.66	QP

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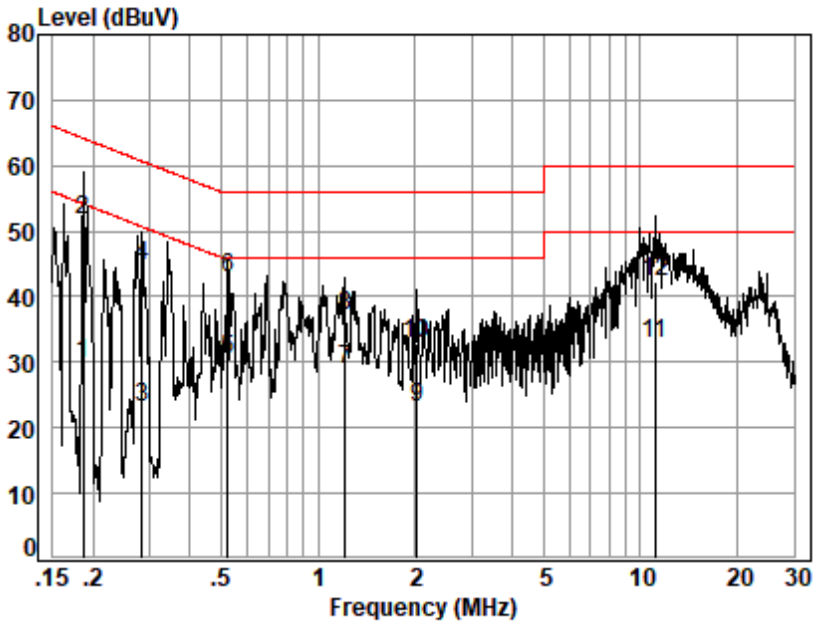
Mode:b; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 18054CR
Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.64	20.01	29.67	54.20	-24.53	Average
2	0.19	0.02	9.64	42.19	51.85	64.20	-12.35	QP
3	0.28	0.04	9.64	13.44	23.12	50.68	-27.56	Average
4	0.28	0.04	9.64	35.11	44.79	60.68	-15.89	QP
5	0.52	0.06	9.64	20.75	30.45	46.00	-15.55	Average
6	0.52	0.06	9.64	33.16	42.86	56.00	-13.14	QP
7	1.21	0.11	9.70	19.03	28.84	46.00	-17.16	Average
8	1.21	0.11	9.70	27.39	37.20	56.00	-18.80	QP
9	2.02	0.16	9.69	13.21	23.06	46.00	-22.94	Average
10	2.02	0.16	9.69	23.00	32.85	56.00	-23.15	QP
11	11.14	0.18	9.98	22.58	32.74	50.00	-17.26	Average
12	11.14	0.18	9.98	32.21	42.37	60.00	-17.63	QP

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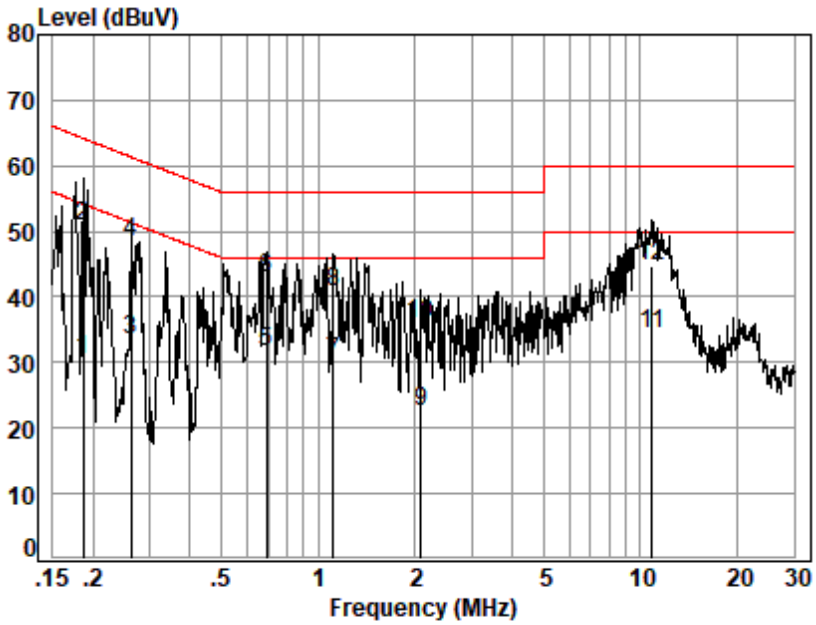
Mode:e; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 18054CR
Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.66	20.74	30.42	54.20	-23.78	Average
2	0.19	0.02	9.66	40.98	50.66	64.20	-13.54	QP
3	0.26	0.03	9.67	23.91	33.61	51.34	-17.73	Average
4	0.26	0.03	9.67	38.75	48.45	61.34	-12.89	QP
5	0.69	0.07	9.68	21.82	31.57	46.00	-14.43	Average
6	0.69	0.07	9.68	33.02	42.77	56.00	-13.23	QP
7	1.12	0.10	9.73	20.26	30.09	46.00	-15.91	Average
8	1.12	0.10	9.73	30.88	40.71	56.00	-15.29	QP
9	2.09	0.16	9.72	12.76	22.64	46.00	-23.36	Average
10	2.09	0.16	9.72	25.93	35.81	56.00	-20.19	QP
11	10.85	0.18	9.95	24.36	34.49	50.00	-15.51	Average
12	10.85	0.18	9.95	34.46	44.59	60.00	-15.41	QP

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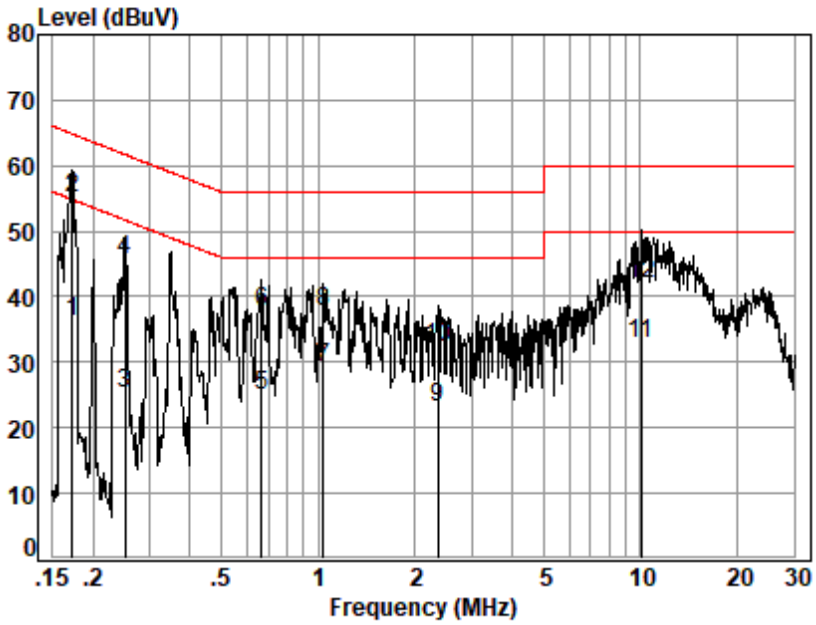
Mode:e; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 18054CR
Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.64	26.65	36.31	54.81	-18.50	Average
2	0.17	0.02	9.64	45.42	55.08	64.81	-9.73	QP
3	0.25	0.03	9.64	15.70	25.37	51.73	-26.36	Average
4	0.25	0.03	9.64	35.87	45.54	61.73	-16.19	QP
5	0.66	0.07	9.65	15.12	24.84	46.00	-21.16	Average
6	0.66	0.07	9.65	27.94	37.66	56.00	-18.34	QP
7	1.04	0.09	9.71	19.31	29.11	46.00	-16.89	Average
8	1.04	0.09	9.71	27.88	37.68	56.00	-18.32	QP
9	2.35	0.16	9.68	13.42	23.26	46.00	-22.74	Average
10	2.35	0.16	9.68	22.51	32.35	56.00	-23.65	QP
11	10.07	0.17	9.85	22.95	32.97	50.00	-17.03	Average
12	10.07	0.17	9.85	31.96	41.98	60.00	-18.02	QP

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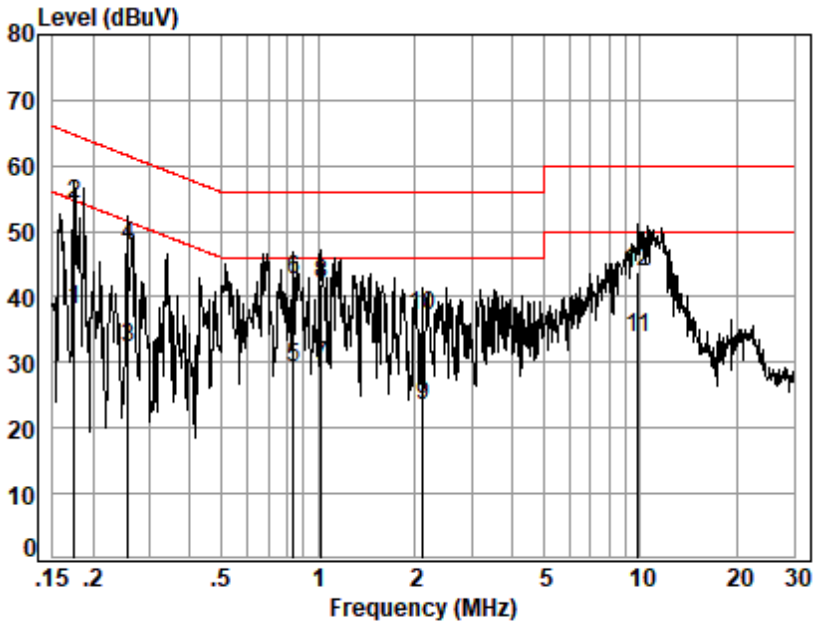
Mode:f; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 18054CR
Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.66	28.23	37.91	54.72	-16.81	Average
2	0.17	0.02	9.66	44.35	54.03	64.72	-10.69	QP
3	0.26	0.03	9.67	22.61	32.31	51.56	-19.25	Average
4	0.26	0.03	9.67	37.92	47.62	61.56	-13.94	QP
5	0.84	0.08	9.74	19.41	29.23	46.00	-16.77	Average
6	0.84	0.08	9.74	32.89	42.71	56.00	-13.29	QP
7	1.02	0.09	9.74	19.73	29.56	46.00	-16.44	Average
8	1.02	0.09	9.74	32.10	41.93	56.00	-14.07	QP
9	2.11	0.16	9.72	13.57	23.45	46.00	-22.55	Average
10	2.11	0.16	9.72	27.35	37.23	56.00	-18.77	QP
11	9.86	0.17	9.85	23.63	33.65	50.00	-16.35	Average
12	9.86	0.17	9.85	33.68	43.70	60.00	-16.30	QP

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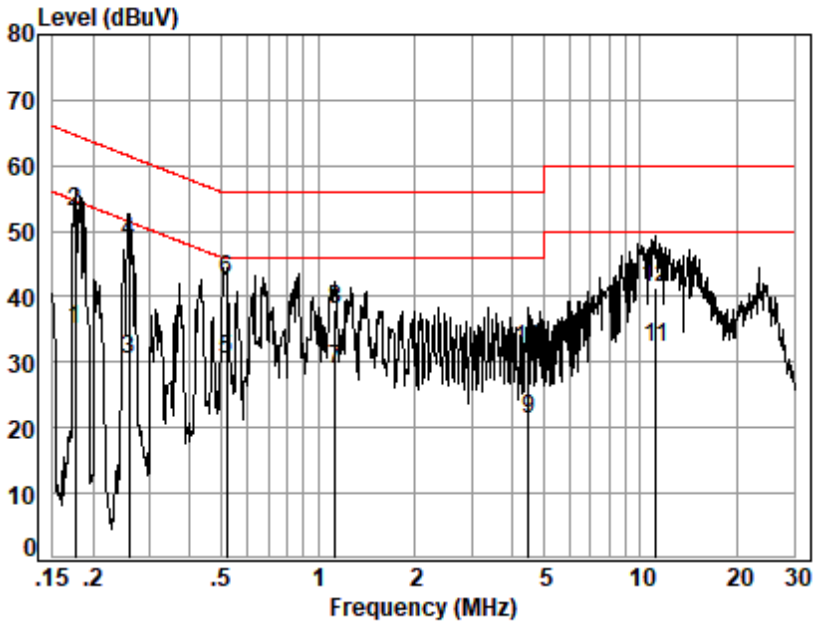
Mode:f; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 18054CR
Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.64	25.41	35.07	54.68	-19.61	Average
2	0.18	0.02	9.64	43.13	52.79	64.68	-11.89	QP
3	0.26	0.03	9.64	20.77	30.44	51.47	-21.03	Average
4	0.26	0.03	9.64	38.79	48.46	61.47	-13.01	QP
5	0.52	0.06	9.64	20.78	30.48	46.00	-15.52	Average
6	0.52	0.06	9.64	32.81	42.51	56.00	-13.49	QP
7	1.13	0.10	9.70	19.11	28.91	46.00	-17.09	Average
8	1.13	0.10	9.70	28.17	37.97	56.00	-18.03	QP
9	4.50	0.17	9.70	11.45	21.32	46.00	-24.68	Average
10	4.50	0.17	9.70	22.02	31.89	56.00	-24.11	QP
11	11.20	0.18	9.99	22.07	32.24	50.00	-17.76	Average
12	11.20	0.18	9.99	31.27	41.44	60.00	-18.56	QP

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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Limit:	
30MHz -88MHz	40.0(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBμV/m) quasi-peak
216MHz-960MHz	46.0(dBμV/m) quasi-peak
960MHz-1000MHz	54.0(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case:

a:Transfer data between the EUT and the PC.
b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
c: Telecom Idle+BT+WLAN+camera(Front)+battery+ Cable+adapter
d: Telecom Idle+BT+WLAN+playing MP4+earphone
e: GSM 850M+BT+WLAN+battery+ Cable+adapter
f: GSM 1900M+BT+WLAN+battery+ Cable+adapter
g: WCDMA Band 2+BT+WLAN+battery+ Cable+adapter
h: WCDMA Band 4+BT+WLAN+battery+ Cable+adapter
i: WCDMA Band 5+BT+WLAN+battery+ Cable+adapter
j: LTE Band 2+BT+WLAN+battery+ Cable+adapter
k: LTE Band 4+BT+WLAN+battery+ Cable+adapter
l: LTE Band 5+BT+WLAN+battery+ Cable+adapter
m: LTE Band 12+BT+WLAN+battery+ Cable+adapter
n: LTE Band 66+BT+WLAN+battery+ Cable+adapter
o: LTE Band 71+BT+WLAN+battery+ Cable+adapter

The worst case for final test:

a:Transfer data between the EUT and the PC.
b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
e: GSM 850M+BT+WLAN+battery+ Cable+adapter
f: GSM 1900M+BT+WLAN+battery+ Cable+adapter

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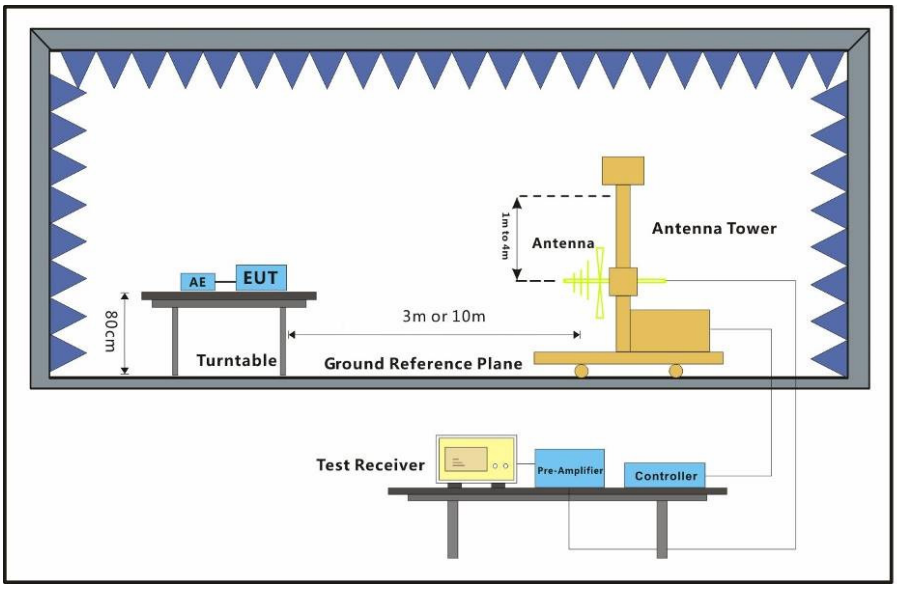
6.2.2 Test Setup Diagram



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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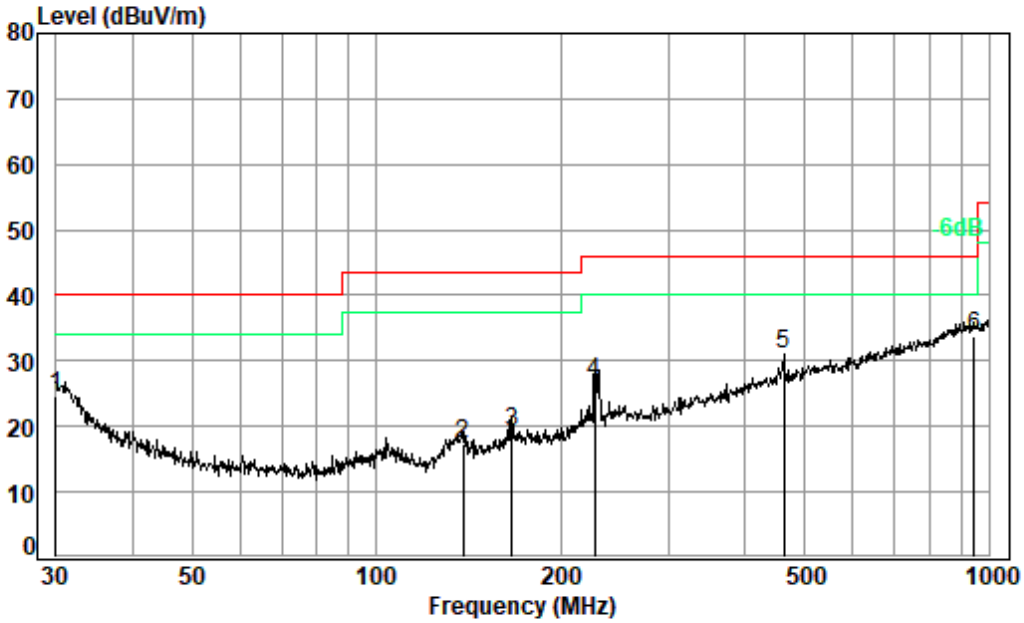
Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL
Job No. : 18054CR
Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	22.50	27.73	29.39	24.76	40.00	-15.24
2	138.39	1.29	13.65	27.42	29.74	17.26	43.50	-26.24
3	166.65	1.35	15.64	27.29	29.50	19.20	43.50	-24.30
4	226.89	1.56	17.77	27.08	34.48	26.73	46.00	-19.27
5	462.35	2.46	23.83	27.69	32.47	31.07	46.00	-14.93
6 pp	945.44	3.65	30.03	27.11	27.32	33.89	46.00	-12.11

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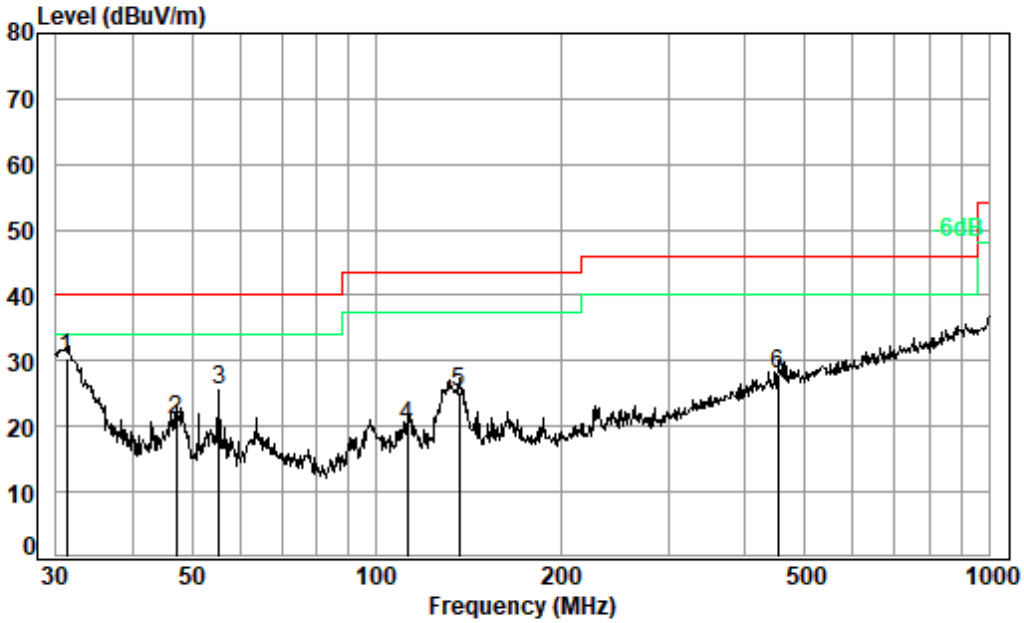
Mode:a; Polarization:Vertical



Condition: 3m VERTICAL
Job No. : 18054CR
Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	31.29	0.60	21.77	27.73	35.68	30.32	40.00	-9.68
2	47.16	0.75	15.06	27.70	33.00	21.11	40.00	-18.89
3	55.41	0.80	13.64	27.68	38.75	25.51	40.00	-14.49
4	112.52	1.23	13.42	27.56	32.94	20.03	43.50	-23.47
5	136.46	1.29	13.60	27.43	37.83	25.29	43.50	-18.21
6	452.72	2.42	23.62	27.65	29.73	28.12	46.00	-17.88

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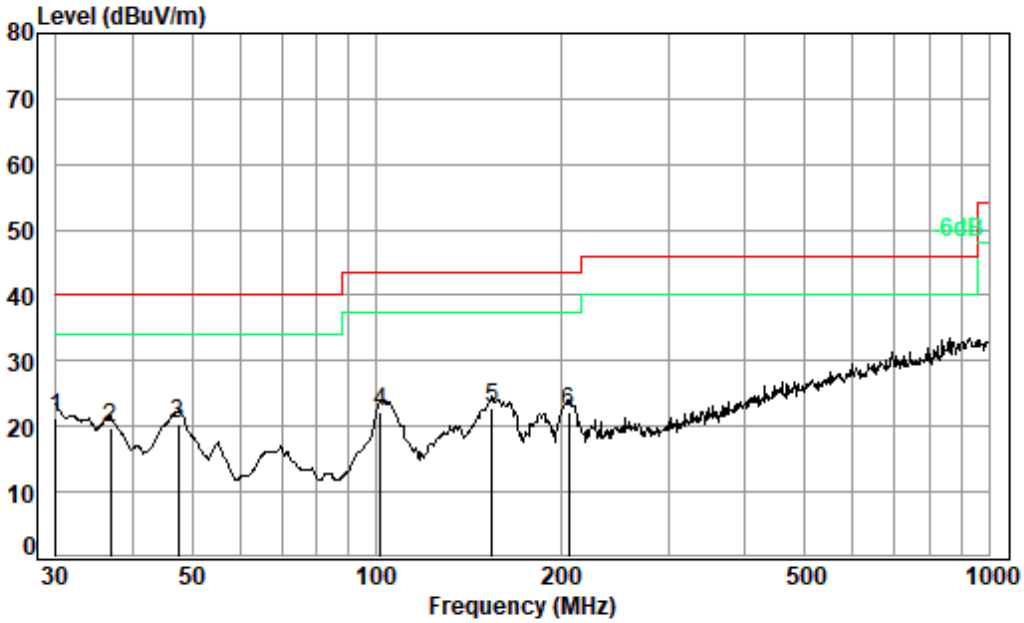

Condition: 3m HORIZONTAL
Job No. : 18054CR
Test Mode: b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	30.00	0.60	22.50	27.73	25.96	21.33	40.00	-18.67
2	36.77	0.60	18.97	27.71	27.83	19.69	40.00	-20.31
3	47.49	0.75	14.96	27.69	32.45	20.47	40.00	-19.53
4	101.64	1.21	13.92	27.63	34.61	22.11	43.50	-21.39
5	154.28	1.33	15.01	27.34	33.74	22.74	43.50	-20.76
6	206.40	1.44	16.73	27.15	31.10	22.12	43.50	-21.38

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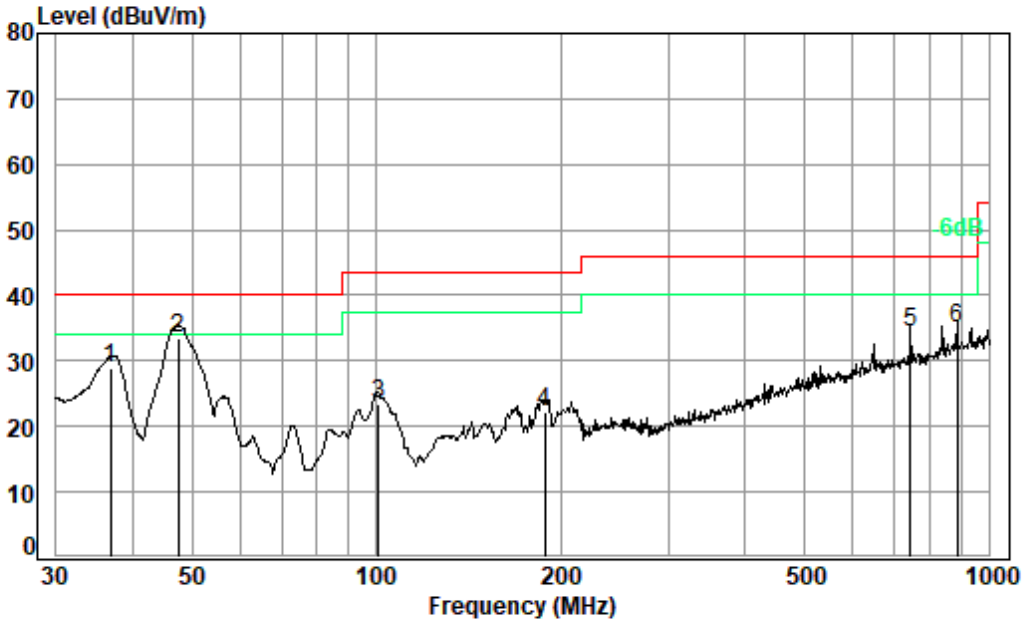

Condition: 3m VERTICAL
Job No. : 18054CR
Test Mode: b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.77	0.60	18.97	27.71	36.94	28.80	40.00	-11.20
2 pp	47.49	0.75	14.96	27.69	45.46	33.48	40.00	-6.52
3	100.93	1.20	13.95	27.63	35.77	23.29	43.50	-20.21
4	188.41	1.38	16.16	27.21	31.80	22.13	43.50	-21.37
5	744.87	3.04	28.18	27.83	30.84	34.23	46.00	-11.77
6	887.61	3.55	29.65	27.34	29.19	35.05	46.00	-10.95

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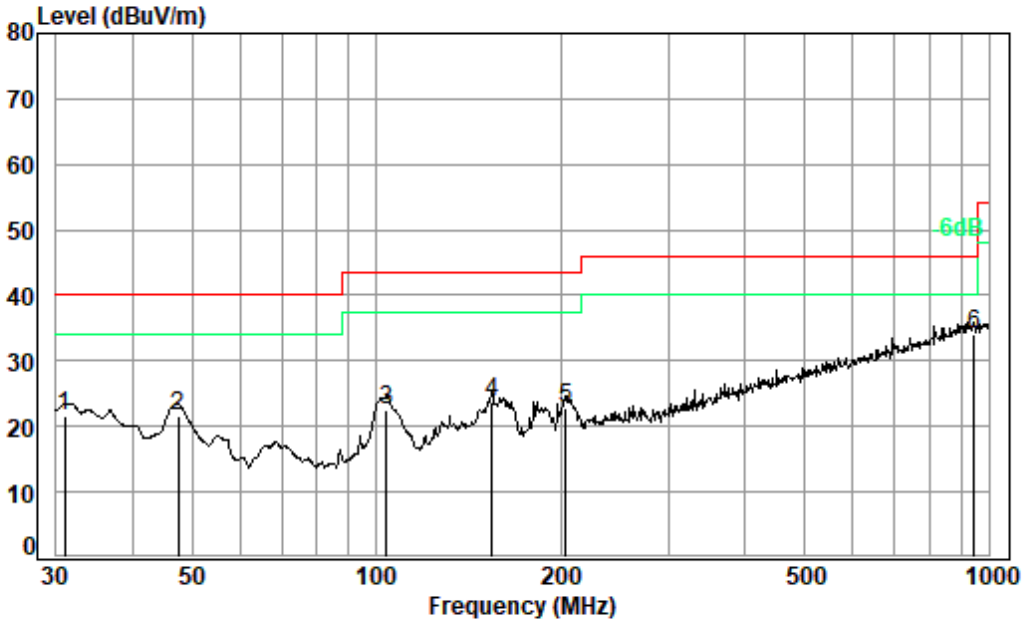

Condition: 3m HORIZONTAL
Job No. : 18054CR
Test Mode: e

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.60	21.95	27.73	26.71	21.53	40.00	-18.47
2	47.49	0.75	14.96	27.69	33.51	21.53	40.00	-18.47
3	103.81	1.21	13.82	27.61	35.15	22.57	43.50	-20.93
4	154.28	1.33	15.01	27.34	34.62	23.62	43.50	-19.88
5	203.52	1.42	16.63	27.15	31.78	22.68	43.50	-20.82
6 pp	945.44	3.65	30.03	27.11	27.40	33.97	46.00	-12.03

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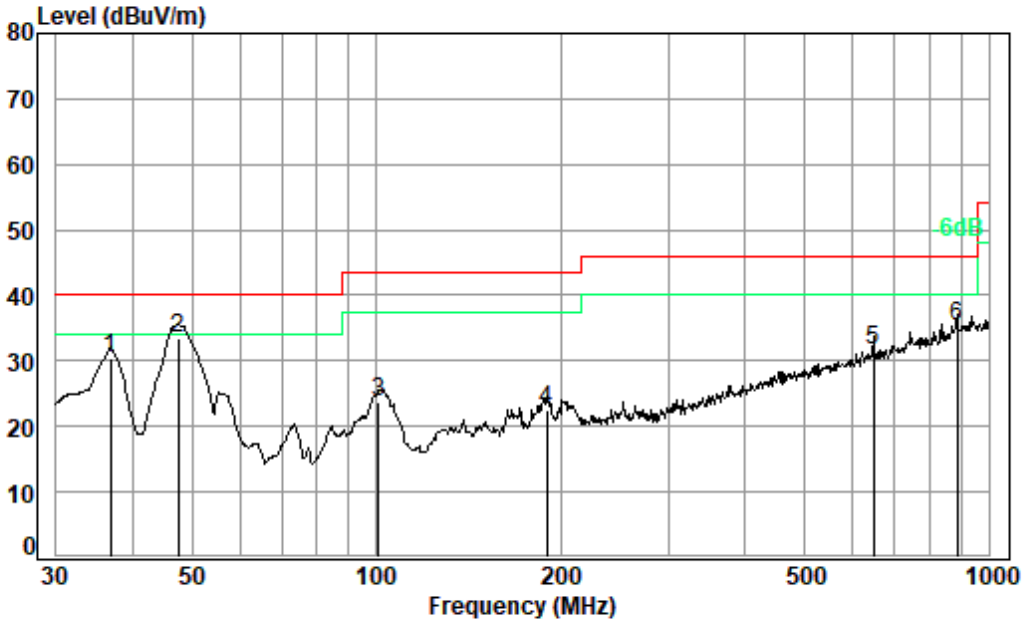
Mode:e; Polarization:Vertical



Condition: 3m VERTICAL
Job No. : 18054CR
Test Mode: e

	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	36.77	0.60	18.97	27.71	38.43	30.29	40.00	-9.71
2 pp	47.49	0.75	14.96	27.69	45.54	33.56	40.00	-6.44
3	100.93	1.20	13.95	27.63	36.13	23.65	43.50	-19.85
4	189.74	1.38	16.20	27.20	32.25	22.63	43.50	-20.87
5	647.39	2.80	27.24	28.05	29.74	31.73	46.00	-14.27
6	887.61	3.55	29.65	27.34	29.30	35.16	46.00	-10.84

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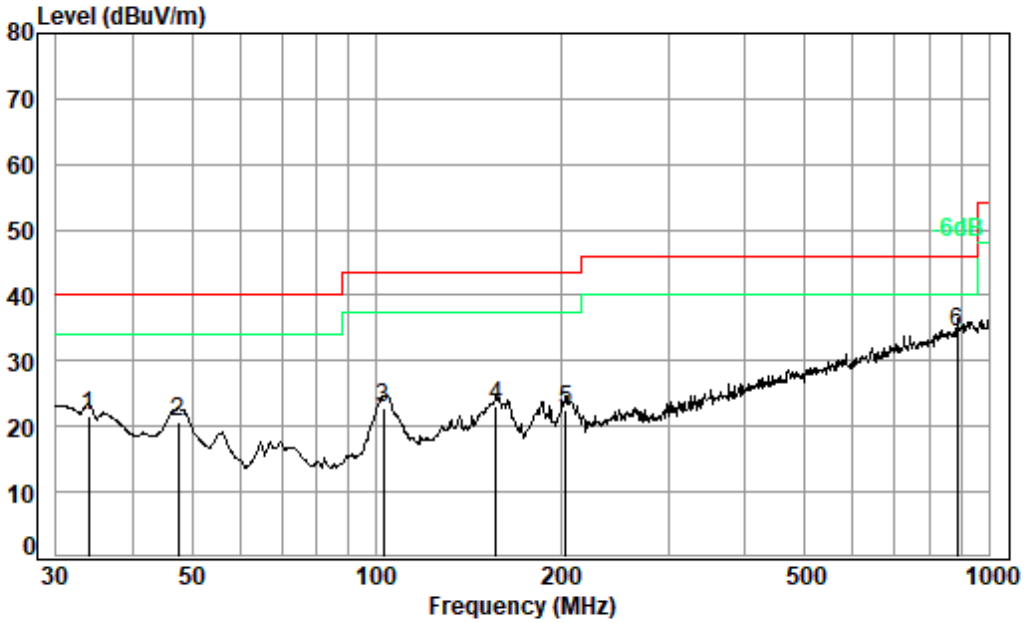
Mode:f; Polarization:Horizontal



Condition: 3m HORIZONTAL
Job No. : 18054CR
Test Mode: f

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	33.92	0.60	20.37	27.72	28.45	21.70	40.00	-18.30
2	47.49	0.75	14.96	27.69	32.73	20.75	40.00	-19.25
3	102.72	1.21	13.87	27.62	35.33	22.79	43.50	-20.71
4	157.01	1.33	15.25	27.33	33.72	22.97	43.50	-20.53
5	203.52	1.42	16.63	27.15	31.74	22.64	43.50	-20.86
6 pp	887.61	3.55	29.65	27.34	28.54	34.40	46.00	-11.60

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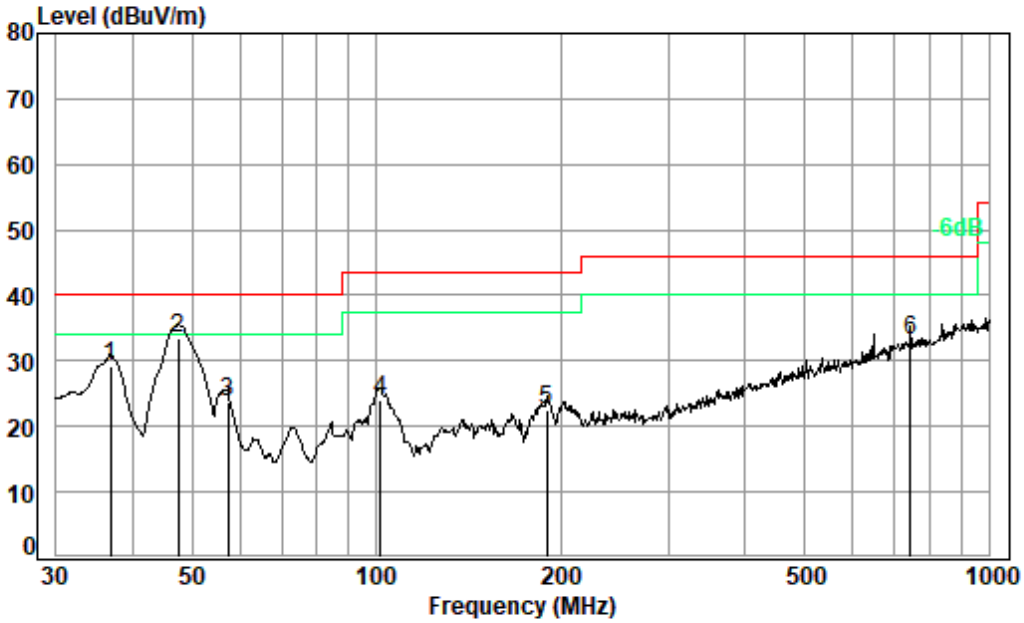
Mode:f; Polarization:Vertical



Condition: 3m VERTICAL
Job No. : 18054CR
Test Mode: f

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.77	0.60	18.97	27.71	37.23	29.09	40.00	-10.91
2 pp	47.49	0.75	14.96	27.69	45.57	33.59	40.00	-6.41
3	57.19	0.80	13.46	27.68	37.15	23.73	40.00	-16.27
4	101.64	1.21	13.92	27.63	36.44	23.94	43.50	-19.56
5	189.74	1.38	16.20	27.20	32.25	22.63	43.50	-20.87
6	744.87	3.04	28.18	27.83	29.86	33.25	46.00	-12.75

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6.3 Radiated Emissions (above 1GHz)

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

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 59.1 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case:

a:Transfer data between the EUT and the PC.
b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
c: Telecom Idle+BT+WLAN+camera(Front)+battery+ Cable+adapter
d: Telecom Idle+BT+WLAN+playing MP4+earphone
e: GSM 850M+BT+WLAN+battery+ Cable+adapter
f: GSM 1900M+BT+WLAN+battery+ Cable+adapter
g: WCDMA Band 2+BT+WLAN+battery+ Cable+adapter
h: WCDMA Band 4+BT+WLAN+battery+ Cable+adapter
i: WCDMA Band 5+BT+WLAN+battery+ Cable+adapter
j: LTE Band 2+BT+WLAN+battery+ Cable+adapter
k: LTE Band 4+BT+WLAN+battery+ Cable+adapter
l: LTE Band 5+BT+WLAN+battery+ Cable+adapter
m: LTE Band 12+BT+WLAN+battery+ Cable+adapter
n: LTE Band 66+BT+WLAN+battery+ Cable+adapter
o: LTE Band 71+BT+WLAN+battery+ Cable+adapter

The worst case for final test:

b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
c: Telecom Idle+BT+WLAN+camera(Front)+battery+ Cable+adapter
d: Telecom Idle+BT+WLAN+playing MP4+earphone

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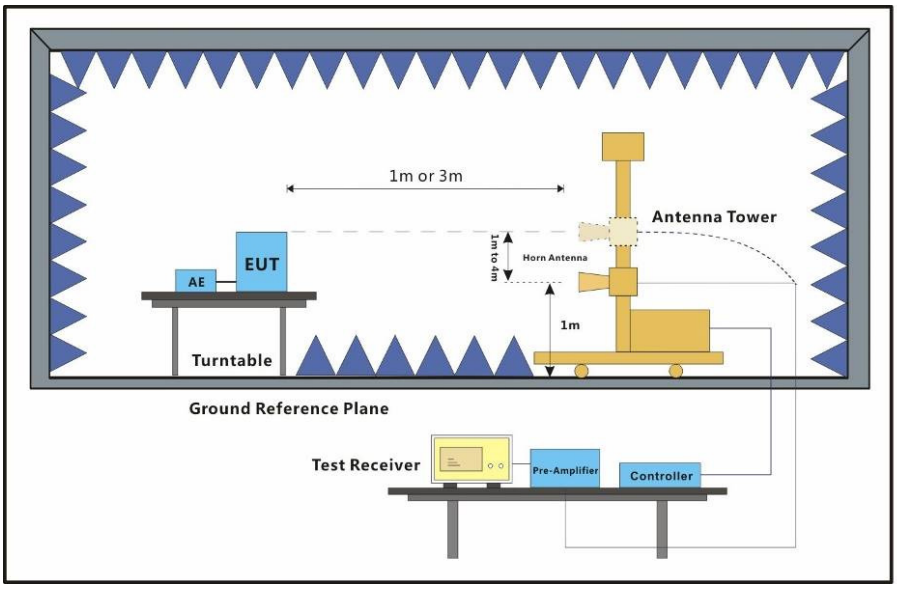
6.3.2 Test Setup Diagram



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.

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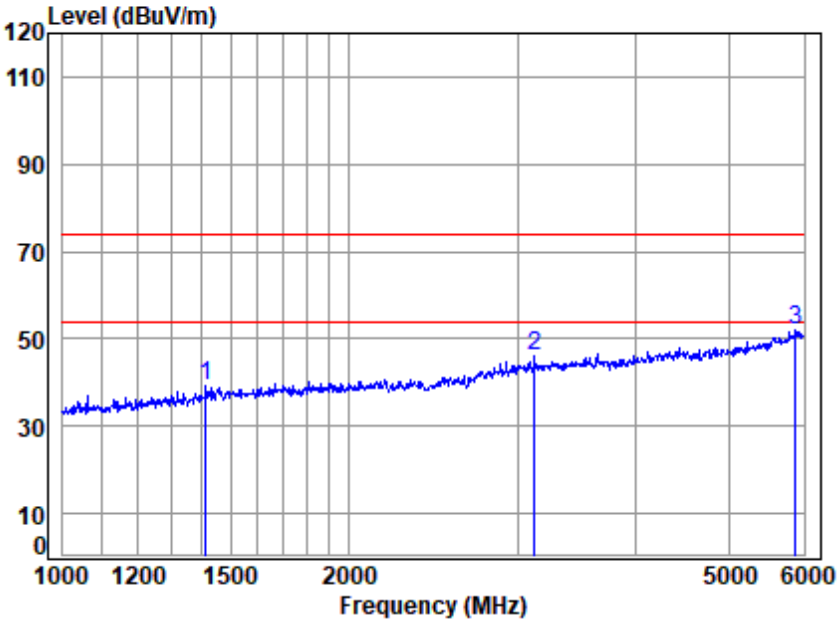
Mode:b; Polarization:Horizontal



Site : chamber
Condition: 3m Horizontal
Job No : 18054CR
Mode : b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1413.134	5.20	25.48	40.65	49.11	39.14	74.00	-34.86	Peak
2	3125.390	6.11	31.11	41.59	50.30	45.93	74.00	-28.07	Peak
3	5872.370	10.14	34.98	42.94	49.75	51.93	74.00	-22.07	Peak

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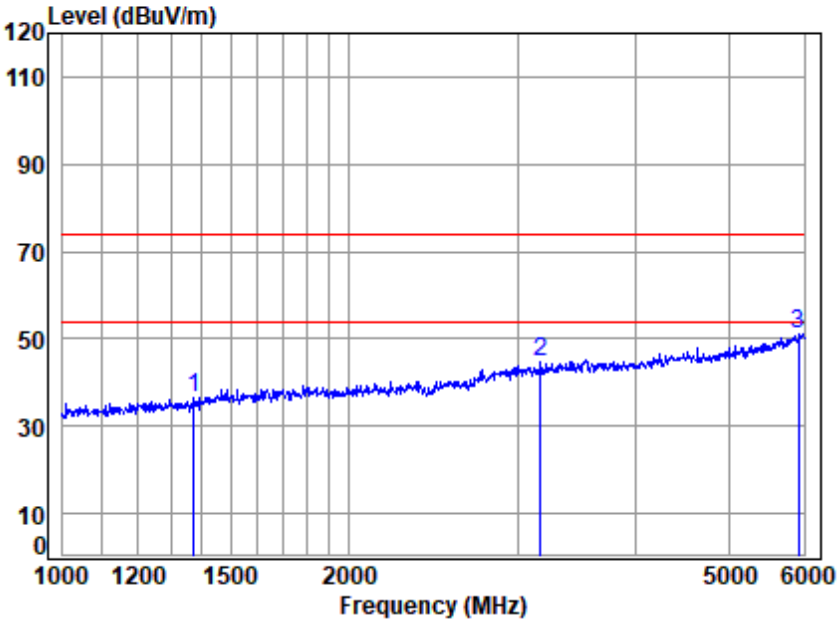
Mode:b; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 18054CR
Mode : b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1373.197	5.06	25.32	40.62	46.55	36.31	74.00	-37.69	Peak
2	3176.198	6.16	31.20	41.67	49.18	44.87	74.00	-29.13	Peak
3	5925.216	10.32	35.03	42.90	48.52	50.97	74.00	-23.03	Peak

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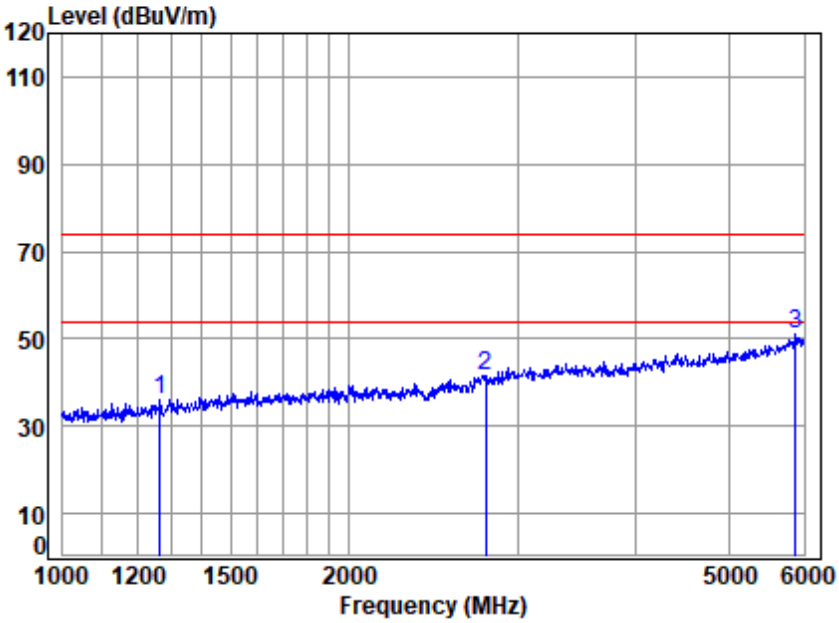

Site : chamber
Condition: 3m HORIZONTAL
Job No : 18054CR
Mode : c

	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	1264.555	4.67	24.87	40.54	46.99	35.99	74.00	-38.01	Peak
2	2776.810	5.83	29.97	41.32	46.96	41.44	74.00	-32.56	Peak
3	5882.902	10.18	34.99	42.94	48.67	50.90	74.00	-23.10	Peak

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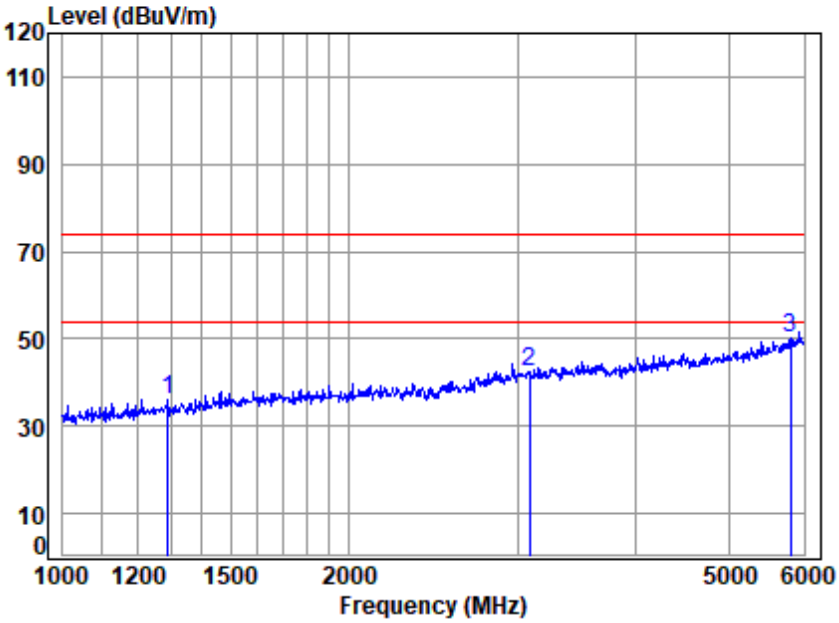
Mode:c; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 18054CR
Mode : c

	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	1289.726	4.76	24.98	40.55	46.96	36.15	74.00	-37.85	Peak
2	3091.970	6.07	31.06	41.54	46.91	42.50	74.00	-31.50	Peak
3	5809.577	9.93	34.91	43.00	48.53	50.37	74.00	-23.63	Peak

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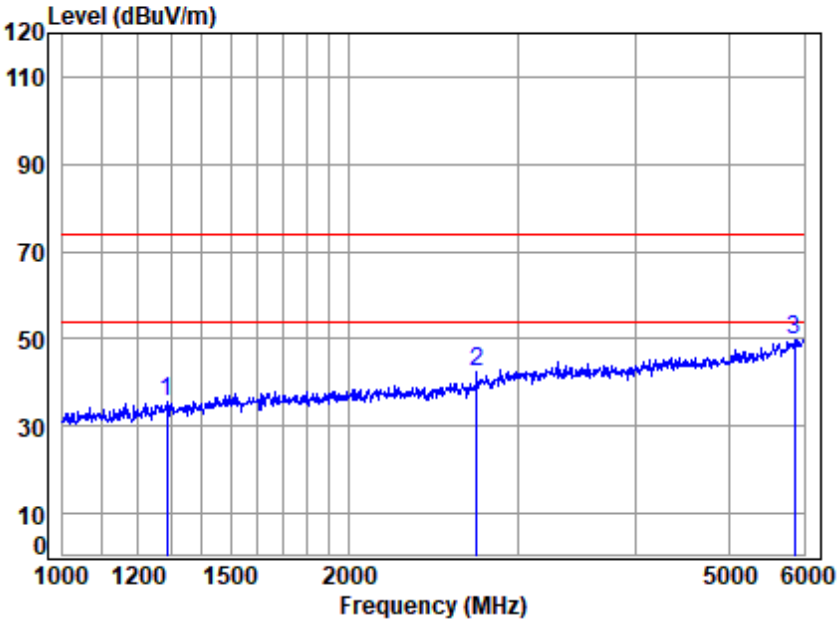

Site : chamber
Condition: 3m HORIZONTAL
Job No : 18054CR
Mode : d

	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	1285.113	4.74	24.96	40.55	46.61	35.76	74.00	-38.24	Peak
2	2717.743	5.78	29.71	41.30	48.31	42.50	74.00	-31.50	Peak
3	5861.858	10.11	34.97	42.95	47.77	49.90	74.00	-24.10	Peak

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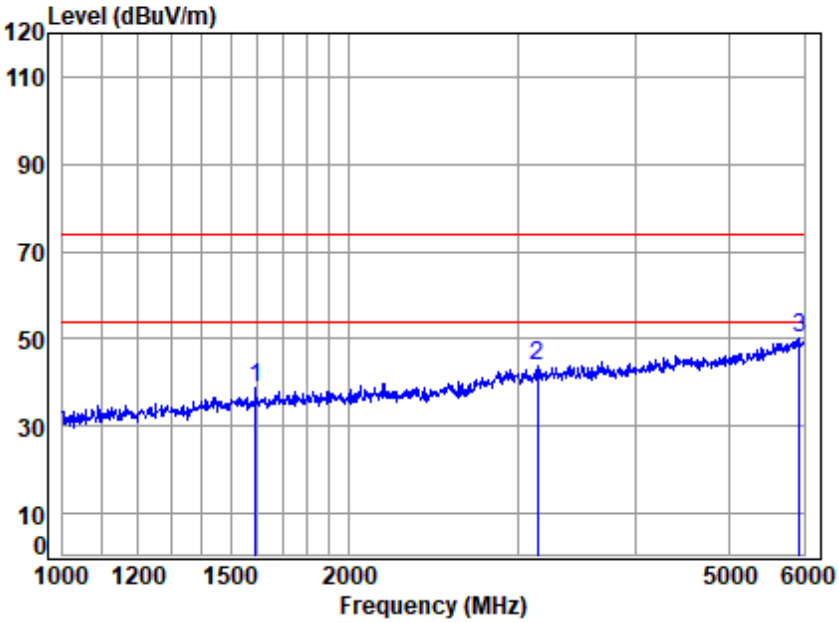
Mode:d; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 18054CR
Mode : d

	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	1593.380	5.36	26.22	40.77	48.06	38.87	74.00	-35.13	Peak
2	3147.870	6.13	31.15	41.63	48.04	43.69	74.00	-30.31	Peak
3	5935.842	10.36	35.04	42.89	47.55	50.06	74.00	-23.94	Peak

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7 Photographs

7.1 EUT Test Setup

Please refer to setup photos.

7.2 EUT Constructional Details (EUT Photos)

Refer to Appendix A - Photographs of EUT Constructional Details.

- End of the Report -

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