



Report No.: SZEM190301131001

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## TEST REPORT

Application No.: SZEM1903011310CR

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.: MAR-LX1A
Trade mark: HUAWEI

FCC ID: QISMAR-LX1A

Standard(s): 47 CFR Part 15, Subpart B

**Date of Receipt:** 2019-03-04

**Date of Test:** 2019-03-06 to 2019-03-14

**Date of Issue:** 2019-03-15

Test Result: Pass\*





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4 sgs.china@sgs.com

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record				
Version Chapter Date Modifier R					
01		2019-03-15		Original	

Authorized for issue by:		
	Landew	
	Leo Lai /Project Engineer	-
	EvicFu	
	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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### 4 General Information

#### 4.1 Details of E.U.T.

Power supply:	DC 3.8V from internal rechargeable battery or from AC/DC adapter
	Model No.:
	HW-090200EH0, HW-090200BH0, HW-090200UH0, HW-059200EHQ, HW-090200UH1
	AC Input: 100-240V 50/60Hz 0.5A
	DC Output: DC 5V 2A OR DC 9V 2A
Cable:	USB cable: 100cm shielded.
	Earphone cable: 115cm unshielded.

Earphone no.	Model no.	Manufacturer
1	HW-090200EH0	Salcomp (Shenzhen) Co., Ltd
2	HW-090200EH0	SHENZHEN HUNTKEY ELECTRIC CO., LTD
3	HW-090200EH0	HUIZHOU BYD ELECTRONIC CO., LTD
4	HW-090200BH0	Salcomp (Shenzhen) Co., Ltd
5	HW-090200BH0	SHENZHEN HUNTKEY ELECTRIC CO., LTD
6	HW-090200BH0	HUIZHOU BYD ELECTRONIC CO., LTD
7	HW-090200UH0	Salcomp (Shenzhen) Co., Ltd
8	HW-090200UH0	SHENZHEN HUNTKEY ELECTRIC CO., LTD
9	HW-090200UH0	HUIZHOU BYD ELECTRONIC CO., LTD

Earphone no.	Model no.	Manufacturer
1	MEND1532B528A02	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.
2	1293-3283-3.5mm-322	Boluo County Quancheng Electronic Co., Ltd.
3	MEND1532B528B00	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.
4	1293-3283-3.5mm-336	Boluo County Quancheng Electronic Co., Ltd.
5	EPAB542-2WH06-DH	Hong Fu Jin Precision Industry (Shenzhen) Co., LTD.

USB cable no.	Model no.	Manufacturer
1	330-50507	HUIZHOU DEHONG TECHNOLOGY CO., LTD.
2	CUDU01B-HC295-EH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED
3	WA0020	NingBo Broad Telecommunication Co.,Ltd.
4	L99UC131-CS-H	LUXSHARE Precision Industry Co., Ltd.
5	18-93C2CHO-001HF	Freeport Resources Enterprises (Jiangxi) Co.,Ltd
6	203-1572-0	Dongguan Mingji Electronics Technology Group Co.,Ltd

Battery no.	Model no.	Manufacturer
1	24022872	Huizhou Desay Battcry Co., Ltd
2		SCUD (FUJIAN) Electronics Co., Ltd



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3		Sunwoda Electronic CO., LTD
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#### 4.2 Test modes

Pretest these modes to find the worst case and show the worse data in the test items:

- c: Transfer data between the EUT and the PC+USB cable1
- d: Transfer data between the EUT and the PC+USB cable2
- e: Transfer data between the EUT and the PC+USB cable3
- f: Transfer data between the EUT and the PC+USB cable4
- g: Transfer data between the EUT and the PC+USB cable5
- h: Transfer data between the EUT and the PC+USB cable6
- i: GSM 850+BT+WLAN+GPS Rx+earphone1+battery1+adapter 1
- j: GSM 1900+BT+WLAN+GPS Rx+earphone2+battery2+adapter2
- k: WCDMA Band II+BT+WLAN+GPS Rx+earphone3+battery3+adapter 3
- I: WCDMA Band IV+BT+WLAN+GPS Rx+earphone4+battery(worst)+adapter 4
- m: WCDMA Band V+BT+WLAN+GPS Rx+earphone5+battery(worst)+adapter 5
- n: LTE band 4+BT+WLAN+GPS Rx+earphone+battery(worst)+adapter6
- o: LTE band 7+BT+WLAN+GPS Rx+earphone+battery(worst)+adapter7
- p: LTE band 38+BT+WLAN+GPS Rx+earphone(worst)+battery(worst)+adapter8
- q: Telecom Idle+BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone(worst)+battery(worst)+adapter9
- r: Telecom Idle+BT+WLAN+GPS Rx+camera
- (Front)+earphone(worst)+battery(worst)+adapter(worst)
- s: Telecom Idle+BT+WLAN+GPS Rx+camera
- (Back)+earphone(worst)+battery(worst)+adapter(worst)
- t: Telecom Idle+BT+WLAN+GPS
- Rx+FM+earphone(worst)+battery(worst)+adapter(worst)

Remark: The test modes in this report is from c to t. both a and b are not contained in this report.

#### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

#### 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
4	0 1 5 5 1 1	± 3.45dB (9kHz to 150kHz)
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
0	Dedicted Federics	± 4.5dB (30MHz-1GHz)
2	Radiated Emission	± 4.8dB (1GHz-6GHz)
3	Temperature test	± 1°C



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4	Humidity test	± 3%
5	DC power test	± 0.5 %

#### Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr</sub> (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

#### 4.5 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.

#### 4.6 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.

#### 4.7 Deviation from Standards

None



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#### 4.8 Abnormalities from Standard Conditions

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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	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	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				
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	2018-07-12	2019-07-11				
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	2018-04-02	2019-04-01				

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	2018-07-12	2019-07-11				
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2018-04-13	2019-04-12				
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				
FSV·Signal Analyzer (10Hz-40GHz)	I Rohde & Schwarz		SEM008-04	2018-04-02	2019-04-01				
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16				



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Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
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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	2018-04-08	2019-04-07				



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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( $\mu$ V)-56dB( $\mu$ V) quasi-peak, 56dB( $\mu$ V)-46dB( $\mu$ V) average

0.5M-5MHz 56dB( $\mu$ V) quasi-peak, 46dB( $\mu$ V) average 5M-30MHz 60dB( $\mu$ V) quasi-peak, 50dB( $\mu$ V) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz



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#### 6.1.1 E.U.T. Operation

Operating Environment:

Atmospheric Pressure: 1015 mbar Temperature: 22 °C Humidity: 58 % RH

The worst case for final test:

c: Transfer data between the EUT and the PC+USB cable1

i: GSM 850+BT+WLAN+GPS Rx+earphone1+battery1+adapter1

j: GSM 1900+BT+WLAN+GPS Rx+earphone2+battery2+adapter2

k: WCDMA Band II+BT+WLAN+GPS Rx+earphone3+battery3+adapter3 I: WCDMA Band IV+BT+WLAN+GPS Rx+earphone4+battery3+adapter4

m: WCDMA Band V+BT+WLAN+GPS Rx+earphone5+battery3+adapter5

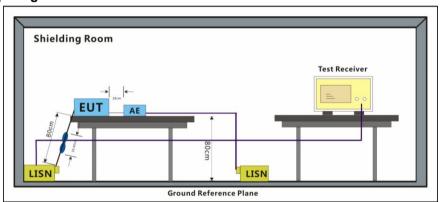
n: LTE band 4+BT+WLAN+GPS Rx+earphone6+battery3+adapter6 o: LTE band 7+BT+WLAN+GPS Rx+earphone3+battery3+adapter7

p: LTE band 38+BT+WLAN+GPS Rx+earphone3+batterv3+adapter8

g: Telecom Idle+BT+WLAN+GPS Rx+playing MP4 (SD

card)+earphone3+battery3+adapter9

#### 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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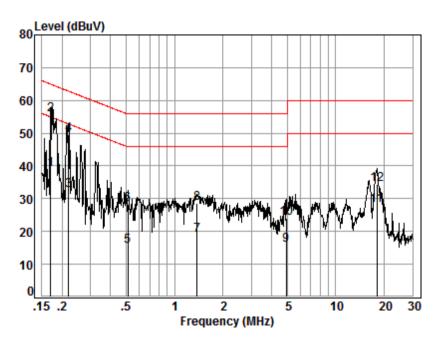
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Mode:c: Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 11310CR

Test mode: c

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.66	29.16	38.84	54.94	-16.10	Average
2	0.17	0.02	9.66	45.87	55.55	64.94	-9.39	QP
3	0.22	0.03	9.66	22.84	32.53	52.83	-20.30	Average
4	0.22	0.03	9.66	40.04	49.73	62.83	-13.10	QP
5	0.51	0.06	9.67	5.73	15.46	46.00	-30.54	Average
6	0.51	0.06	9.67	18.52	28.25	56.00	-27.75	QP
7	1.38	0.12	9.73	9.05	18.90	46.00	-27.10	Average
8	1.38	0.12	9.73	18.83	28.68	56.00	-27.32	QP
9	4.93	0.17	9.74	5.88	15.79	46.00	-30.21	Average
10	4.93	0.17	9.74	14.19	24.10	56.00	-31.90	QP
11	18.04	0.23	10.16	17.64	28.03	50.00	-21.97	Average
12	18.04	0.23	10.16	23.86	34.25	60.00	-25.75	QP



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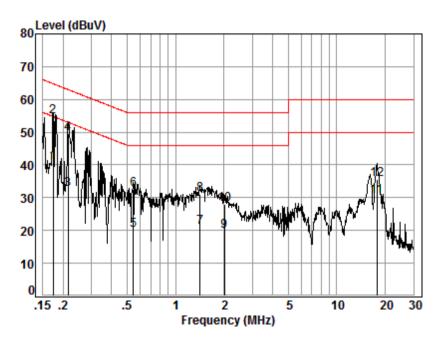
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Mode:c; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11310CR

Test mode: c

	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	31.00	40.66	54.77	-14.11	Average
2	0.17	0.02	9.64	45.11	54.77	64.77	-10.00	QP
3	0.22	0.03	9.64	22.92	32.59	53.01	-20.42	Average
4	0.22	0.03	9.64	39.82	49.49	63.01	-13.52	QP
5	0.55	0.06	9.64	10.32	20.02	46.00	-25.98	Average
6	0.55	0.06	9.64	22.82	32.52	56.00	-23.48	QP
7	1.42	0.12	9.70	11.14	20.96	46.00	-25.04	Average
8	1.42	0.12	9.70	21.17	30.99	56.00	-25.01	QP
9	2.01	0.16	9.69	9.93	19.78	46.00	-26.22	Average
10	2.01	0.16	9.69	18.00	27.85	56.00	-28.15	QP
11	17.75	0.23	10.22	19.88	30.33	50.00	-19.67	Average
12	17.75	0.23	10.22	25.18	35.63	60.00	-24.37	QP



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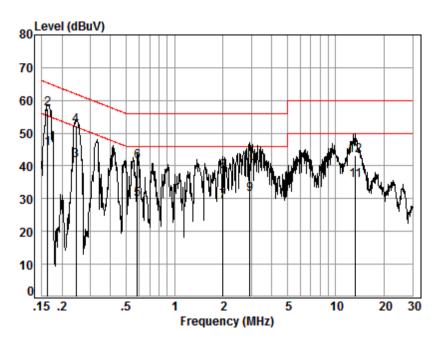
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Mode:i; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 11310CR

Test mode: i

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	35.59	45.26	55.30	-10.04	Average
2	0.16	0.01	9.66	47.82	57.49	65.30	-7.81	QP
3	0.24	0.03	9.67	31.95	41.65	51.95	-10.30	Average
4	0.24	0.03	9.67	42.56	52.26	61.95	-9.69	QP
5	0.59	0.07	9.67	20.17	29.91	46.00	-16.09	Average
6	0.59	0.07	9.67	31.50	41.24	56.00	-14.76	QP
7	2.00	0.16	9.72	19.26	29.14	46.00	-16.86	Average
8	2.00	0.16	9.72	28.38	38.26	56.00	-17.74	QP
9	2.93	0.16	9.71	21.58	31.45	46.00	-14.55	Average
10	2.93	0.16	9.71	30.81	40.68	56.00	-15.32	QP
11	13.27	0.20	10.20	25.28	35.68	50.00	-14.32	Average
12	13.27	0.20	10.20	32.81	43.21	60.00	-16.79	QP



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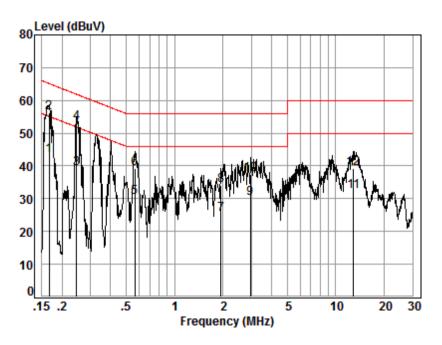
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Mode:i; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11310CR

Test mode: i

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.01	9.64	33.65	43.30	55.16	-11.86	Average
2	0.17	0.01	9.64	46.77	56.42	65.16	-8.74	QP
3	0.25	0.03	9.64	29.68	39.35	51.86	-12.51	Average
4	0.25	0.03	9.64	43.45	53.12	61.86	-8.74	QP
5	0.57	0.07	9.64	20.86	30.57	46.00	-15.43	Average
6	0.57	0.07	9.64	29.64	39.35	56.00	-16.65	QP
7	1.94	0.16	9.69	15.41	25.26	46.00	-20.74	Average
8	1.94	0.16	9.69	24.19	34.04	56.00	-21.96	QP
9	2.96	0.16	9.68	20.14	29.98	46.00	-16.02	Average
10	2.96	0.16	9.68	27.57	37.41	56.00	-18.59	QP
11	12.85	0.19	10.17	21.86	32.22	50.00	-17.78	Average
12	12.85	0.19	10.17	28.93	39.29	60.00	-20.71	QP



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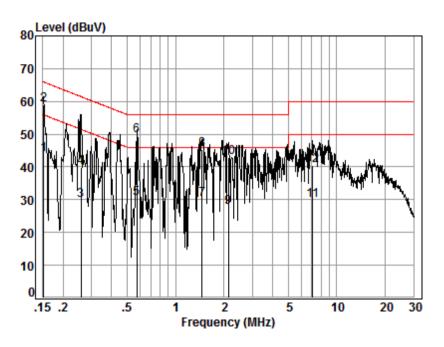
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Mode:j; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 11310CR

Test mode: j

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.66	34.21	43.88	55.91	-12.03	Average
2	0.15	0.01	9.66	49.40	59.07	65.91	-6.84	QP
3	0.26	0.03	9.67	20.00	29.70	51.47	-21.77	Average
4	0.26	0.03	9.67	30.00	39.70	61.47	-21.77	QP
5	0.57	0.07	9.67	20.77	30.51	46.00	-15.49	Average
6	0.57	0.07	9.67	39.69	49.43	56.00	-6.57	QP
7	1.46	0.13	9.73	20.17	30.03	46.00	-15.97	Average
8	1.46	0.13	9.73	35.41	45.27	56.00	-10.73	QP
9	2.13	0.16	9.72	17.79	27.67	46.00	-18.33	Average
10	2.13	0.16	9.72	33.06	42.94	56.00	-13.06	QP
11	7.10	0.17	9.78	19.94	29.89	50.00	-20.11	Average
12	7.10	0.17	9.78	30.50	40.45	60.00	-19.55	QP



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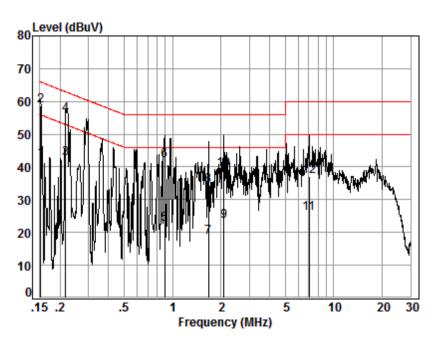
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Mode:j; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11310CR

Test mode: j

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.63	32.68	42.32	55.91	-13.59	Average
2	0.15	0.01	9.63	49.06	58.70	65.91	-7.21	QP
3	0.22	0.03	9.64	32.95	42.62	52.92	-10.30	Average
4	0.22	0.03	9.64	46.28	55.95	62.92	-6.97	QP
5	0.89	0.09	9.71	12.66	22.46	46.00	-23.54	Average
6	0.89	0.09	9.71	32.12	41.92	56.00	-14.08	QP
7	1.67	0.14	9.70	8.78	18.62	46.00	-27.38	Average
8	1.67	0.14	9.70	24.38	34.22	56.00	-21.78	QP
9	2.09	0.16	9.69	13.68	23.53	46.00	-22.47	Average
10	2.09	0.16	9.69	29.40	39.25	56.00	-16.75	QP
11	7.02	0.17	9.76	16.03	25.96	50.00	-24.04	Average
12	7.02	0.17	9.76	27.07	37.00	60.00	-23.00	QP



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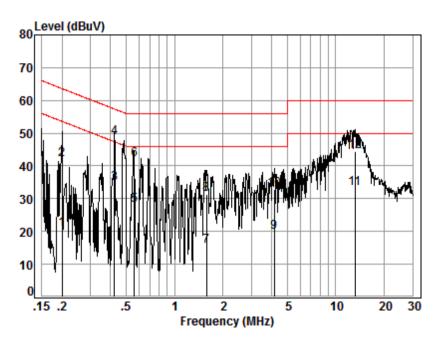
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Mode:k; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 11310CR

Test mode: k

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
			0.66	44.00	20.50	F2 60	20.04	
1	0.20	0.02	9.66	11.00	20.68	53.62	-32.94	Average
2	0.20	0.02	9.66	32.33	42.01	63.62	-21.61	QP
3	0.42	0.05	9.67	25.09	34.81	47.37	-12.56	Average
4	0.42	0.05	9.67	38.82	48.54	57.37	-8.83	QP
5	0.56	0.07	9.67	18.34	28.08	46.00	-17.92	Average
6	0.56	0.07	9.67	32.22	41.96	56.00	-14.04	QP
7	1.58	0.14	9.73	5.79	15.66	46.00	-30.34	Average
8	1.58	0.14	9.73	21.32	31.19	56.00	-24.81	QP
9	4.16	0.16	9.72	10.00	19.88	46.00	-26.12	Average
10	4.16	0.16	9.72	22.91	32.79	56.00	-23.21	QP
11	13.13	0.20	10.19	22.80	33.19	50.00	-16.81	Average
12	13.13	0.20	10.19	34.14	44.53	60.00	-15.47	QP



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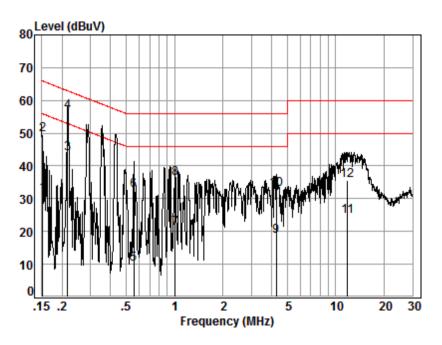
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Mode:k; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11310CR

Test mode: k

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.63	21.68	31.32	55.91	-24.59	Average
2	0.15	0.01	9.63	39.90	49.54	65.91	-16.37	QP
3	0.22	0.03	9.64	33.99	43.66	52.96	-9.30	Average
4	0.22	0.03	9.64	47.01	56.68	62.96	-6.28	QP
5	0.56	0.07	9.64	0.46	10.17	46.00	-35.83	Average
6	0.56	0.07	9.64	22.80	32.51	56.00	-23.49	QP
7	1.01	0.09	9.71	11.32	21.12	46.00	-24.88	Average
8	1.01	0.09	9.71	26.49	36.29	56.00	-19.71	QP
9	4.29	0.16	9.70	8.70	18.56	46.00	-27.44	Average
10	4.29	0.16	9.70	22.91	32.77	56.00	-23.23	QP
11	11.81	0.19	10.06	14.46	24.71	50.00	-25.29	Average
12	11.81	0.19	10.06	25.35	35.60	60.00	-24.40	QP



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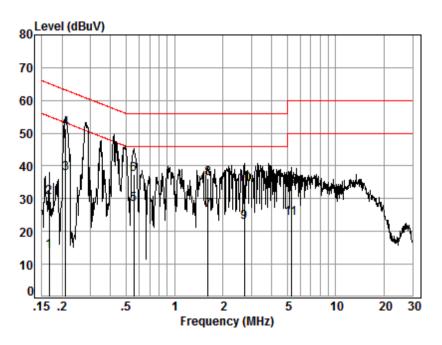
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Mode:I; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 11310CR

Test mode: 1

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.01	9.66	4.35	14.02	55.16	-41.14	Average
2	0.17	0.01	9.66	20.78	30.45	65.16	-34.71	QP
3	0.21	0.02	9.66	28.09	37.77	53.18	-15.41	Average
4	0.21	0.02	9.66	41.78	51.46	63.18	-11.72	QP
5	0.56	0.07	9.67	18.63	28.37	46.00	-17.63	Average
6	0.56	0.07	9.67	27.62	37.36	56.00	-18.64	QP
7	1.61	0.14	9.73	16.48	26.35	46.00	-19.65	Average
8	1.61	0.14	9.73	26.24	36.11	56.00	-19.89	QP
9	2.71	0.16	9.71	13.02	22.89	46.00	-23.11	Average
10	2.71	0.16	9.71	24.62	34.49	56.00	-21.51	QP
11	5.28	0.17	9.75	14.01	23.93	50.00	-26.07	Average
12	5.28	0.17	9.75	23.70	33.62	60.00	-26.38	QP



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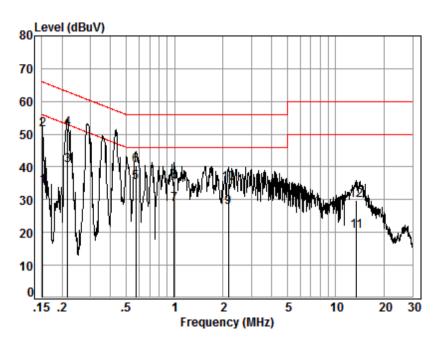
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Report No.: SZEM190301131001

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Mode:I; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11310CR

Test mode: 1

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.63	24.54	34.18	55.91	-21.73	Average
2	0.15	0.01	9.63	41.88	51.52	65.91	-14.39	QP
3	0.22	0.03	9.64	30.89	40.56	52.96	-12.40	Average
4	0.22	0.03	9.64	42.19	51.86	62.96	-11.10	QP
5	0.57	0.07	9.64	25.66	35.37	46.00	-10.63	Average
6	0.57	0.07	9.64	30.84	40.55	56.00	-15.45	QP
7	0.99	0.09	9.71	18.86	28.66	46.00	-17.34	Average
8	0.99	0.09	9.71	25.80	35.60	56.00	-20.40	QP
9	2.16	0.16	9.69	17.98	27.83	46.00	-18.17	Average
10	2.16	0.16	9.69	25.13	34.98	56.00	-21.02	QP
11	13.48	0.20	10.24	10.07	20.51	50.00	-29.49	Average
12	13.48	0.20	10.24	19.50	29.94	60.00	-30.06	QP



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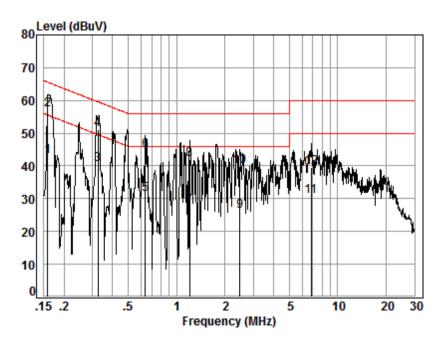
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Report No.: SZEM190301131001

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Mode:m; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 11310CR

Test mode: m

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	33.28	42.95	55.56	-12.61	Average
2	0.16	0.01	9.66	47.55	57.22	65.56	-8.34	QP
3	0.33	0.04	9.67	30.69	40.40	49.57	-9.17	Average
4	0.33	0.04	9.67	41.28	50.99	59.57	-8.58	QP
5	0.64	0.07	9.67	21.54	31.28	46.00	-14.72	Average
6	0.64	0.07	9.67	34.95	44.69	56.00	-11.31	QP
7	1.20	0.11	9.73	17.93	27.77	46.00	-18.23	Average
8	1.20	0.11	9.73	32.01	41.85	56.00	-14.15	QP
9	2.47	0.16	9.71	16.25	26.12	46.00	-19.88	Average
10	2.47	0.16	9.71	30.04	39.91	56.00	-16.09	QP
11	6.84	0.17	9.78	20.87	30.82	50.00	-19.18	Average
12	6.84	0.17	9.78	29.50	39.45	60.00	-20.55	QP



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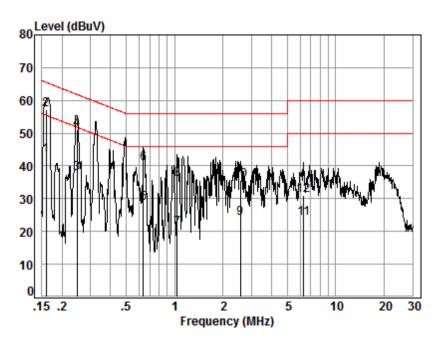
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Report No.: SZEM190301131001

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Mode:m; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11310CR

Test mode: m

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.64	33.55	43.20	55.47	-12.27	Average
2	0.16	0.01	9.64	47.41	57.06	65.47	-8.41	QP
3	0.25	0.03	9.64	28.11	37.78	51.82	-14.04	Average
4	0.25	0.03	9.64	41.50	51.17	61.82	-10.65	QP
5	0.64	0.07	9.64	18.86	28.57	46.00	-17.43	Average
6	0.64	0.07	9.64	31.16	40.87	56.00	-15.13	QP
7	1.04	0.09	9.71	11.05	20.85	46.00	-25.15	Average
8	1.04	0.09	9.71	26.21	36.01	56.00	-19.99	QP
9	2.55	0.16	9.68	14.27	24.11	46.00	-21.89	Average
10	2.55	0.16	9.68	25.66	35.50	56.00	-20.50	QP
11	6.32	0.17	9.74	13.97	23.88	50.00	-26.12	Average
12	6.32	0.17	9.74	21.11	31.02	60.00	-28.98	QP



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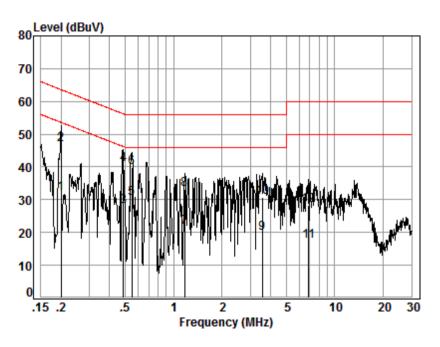
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Report No.: SZEM190301131001

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Mode:n; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 11310CR

Test mode: n

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.20	0.02	9.66	22.29	31.97	53.62	-21.65	Average
2	0.20	0.02	9.66	37.02	46.70	63.62	-16.92	QP
3	0.49	0.06	9.67	18.17	27.90	46.23	-18.33	Average
4	0.49	0.06	9.67	31.16	40.89	56.23	-15.34	QP
5	0.55	0.06	9.67	20.55	30.28	46.00	-15.72	Average
6	0.55	0.06	9.67	30.02	39.75	56.00	-16.25	QP
7	1.17	0.11	9.73	11.81	21.65	46.00	-24.35	Average
8	1.17	0.11	9.73	23.38	33.22	56.00	-22.78	QP
9	3.55	0.16	9.72	9.86	19.74	46.00	-26.26	Average
10	3.55	0.16	9.72	20.87	30.75	56.00	-25.25	QP
11	6.88	0.17	9.78	7.50	17.45	50.00	-32.55	Average
12	6.88	0.17	9.78	18.37	28.32	60.00	-31.68	QP



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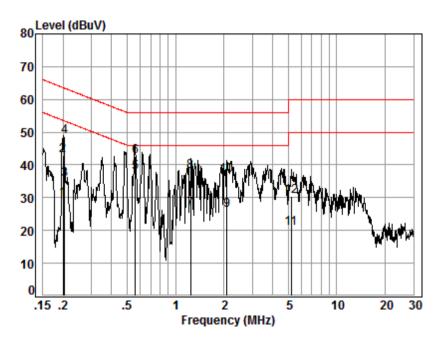
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Report No.: SZEM190301131001

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Mode:n; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11310CR

Test mode: n

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.20	0.02	9.64	19.71	29.37	53.62	-24.25	Average
2	0.20	0.02	9.64	33.37	43.03	63.62	-20.59	QP
3	0.20	0.02	9.64	25.91	35.57	53.45	-17.88	Average
4	0.20	0.02	9.64	38.87	48.53	63.45	-14.92	QP
5	0.56	0.07	9.64	27.93	37.64	46.00	-8.36	Average
6	0.56	0.07	9.64	32.75	42.46	56.00	-13.54	QP
7	1.24	0.11	9.70	16.81	26.62	46.00	-19.38	Average
8	1.24	0.11	9.70	28.15	37.96	56.00	-18.04	QP
9	2.09	0.16	9.69	16.22	26.07	46.00	-19.93	Average
10	2.09	0.16	9.69	26.98	36.83	56.00	-19.17	QP
11	5.22	0.17	9.72	10.93	20.82	50.00	-29.18	Average
12	5.22	0.17	9.72	20.57	30.46	60.00	-29.54	QP



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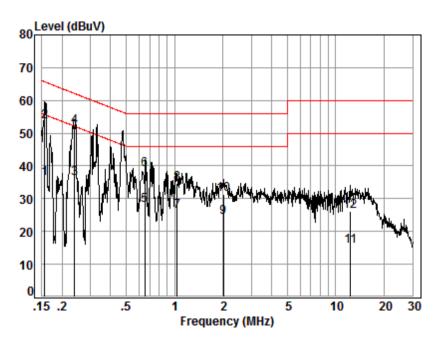
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Mode:o; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 11310CR

Test mode: o

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	26.46	36.13	55.69	-19.56	Average
2	0.16	0.01	9.66	43.91	53.58	65.69	-12.11	QP
3	0.24	0.03	9.67	26.50	36.20	52.13	-15.93	Average
4	0.24	0.03	9.67	42.44	52.14	62.13	-9.99	QP
5	0.65	0.07	9.68	18.17	27.92	46.00	-18.08	Average
6	0.65	0.07	9.68	29.15	38.90	56.00	-17.10	QP
7	1.04	0.09	9.74	16.22	26.05	46.00	-19.95	Average
8	1.04	0.09	9.74	24.96	34.79	56.00	-21.21	QP
9	2.01	0.16	9.72	14.51	24.39	46.00	-21.61	Average
10	2.01	0.16	9.72	21.56	31.44	56.00	-24.56	QP
11	12.32	0.19	10.11	5.20	15.50	50.00	-34.50	Average
12	12.32	0.19	10.11	15.85	26.15	60.00	-33.85	QP



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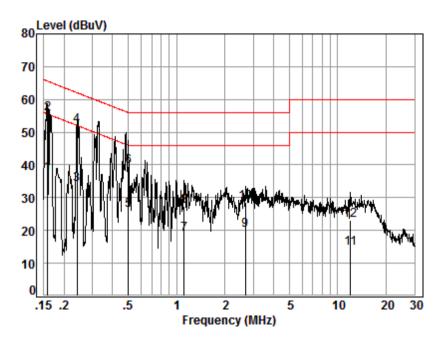
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Mode:o; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11310CR

Test mode: o

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.63	27.80	37.44	55.56	-18.12	Average
2	0.16	0.01	9.63	46.06	55.70	65.56	-9.86	QP
3	0.24	0.03	9.64	24.47	34.14	52.04	-17.90	Average
4	0.24	0.03	9.64	42.29	51.96	62.04	-10.08	QP
5	0.50	0.06	9.64	16.37	26.07	46.00	-19.93	Average
6	0.50	0.06	9.64	29.88	39.58	56.00	-16.42	QP
7	1.11	0.10	9.70	9.03	18.83	46.00	-27.17	Average
8	1.11	0.10	9.70	17.52	27.32	56.00	-28.68	QP
9	2.66	0.16	9.68	10.30	20.14	46.00	-25.86	Average
10	2.66	0.16	9.68	18.63	28.47	56.00	-27.53	QP
11	12.00	0.19	10.08	4.18	14.45	50.00	-35.55	Average
12	12.00	0.19	10.08	12.77	23.04	60.00	-36.96	QP



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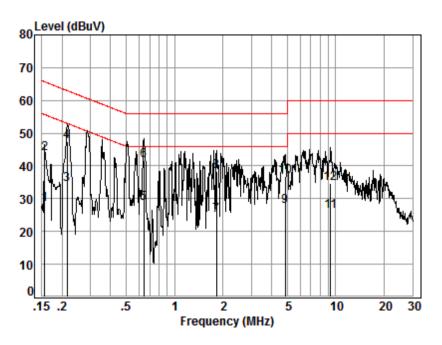
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Mode:p; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 11310CR

Test mode: p

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	18.74	28.41	55.69	-27.28	Average
2	0.16	0.01	9.66	34.20	43.87	65.69	-21.82	QP
3	0.22	0.03	9.66	24.64	34.33	53.01	-18.68	Average
4	0.22	0.03	9.66	37.65	47.34	63.01	-15.67	QP
5	0.64	0.07	9.67	18.91	28.65	46.00	-17.35	Average
6	0.64	0.07	9.67	31.80	41.54	56.00	-14.46	QP
7	1.82	0.15	9.72	14.97	24.84	46.00	-21.16	Average
8	1.82	0.15	9.72	28.46	38.33	56.00	-17.67	QP
9	4.85	0.17	9.74	17.74	27.65	46.00	-18.35	Average
10	4.85	0.17	9.74	26.82	36.73	56.00	-19.27	QP
11	9.30	0.17	9.84	16.24	26.25	50.00	-23.75	Average
12	9.30	0.17	9.84	24.62	34.63	60.00	-25.37	QP



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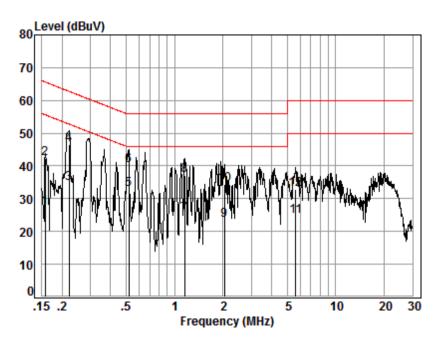
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Mode:p; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11310CR

Test mode: p

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.63	17.80	27.44	55.60	-28.16	Average
2	0.16	0.01	9.63	32.49	42.13	65.60	-23.47	QP
3	0.22	0.03	9.64	25.08	34.75	52.79	-18.04	Average
4	0.22	0.03	9.64	36.84	46.51	62.79	-16.28	QP
5	0.52	0.06	9.64	23.03	32.73	46.00	-13.27	Average
6	0.52	0.06	9.64	30.54	40.24	56.00	-15.76	QP
7	1.15	0.10	9.70	15.47	25.27	46.00	-20.73	Average
8	1.15	0.10	9.70	27.19	36.99	56.00	-19.01	QP
9	2.03	0.16	9.69	13.68	23.53	46.00	-22.47	Average
10	2.03	0.16	9.69	24.39	34.24	56.00	-21.76	QP
11	5.65	0.17	9.73	14.77	24.67	50.00	-25.33	Average
12	5.65	0.17	9.73	22.96	32.86	60.00	-27.14	QP



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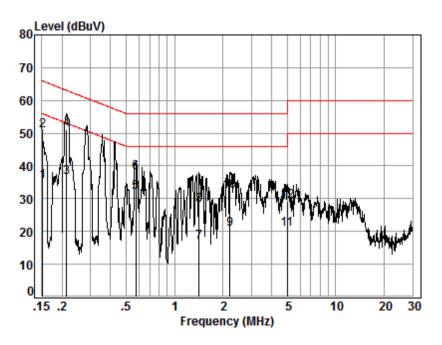
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Mode:q; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 11310CR

Test mode: q

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.66	25.47	35.14	55.91	-20.77	Average
2	0.15	0.01	9.66	41.04	50.71	65.91	-15.20	QP
3	0.21	0.02	9.66	26.93	36.61	53.10	-16.49	Average
4	0.21	0.02	9.66	41.30	50.98	63.10	-12.12	QP
5	0.57	0.07	9.67	22.13	31.87	46.00	-14.13	Average
6	0.57	0.07	9.67	28.37	38.11	56.00	-17.89	QP
7	1.42	0.12	9.73	6.97	16.82	46.00	-29.18	Average
8	1.42	0.12	9.73	18.17	28.02	56.00	-27.98	QP
9	2.21	0.16	9.72	10.94	20.82	46.00	-25.18	Average
10	2.21	0.16	9.72	22.40	32.28	56.00	-23.72	QP
11	5.00	0.17	9.74	10.83	20.74	50.00	-29.26	Average
12	5.00	0.17	9.74	19.26	29.17	60.00	-30.83	QP



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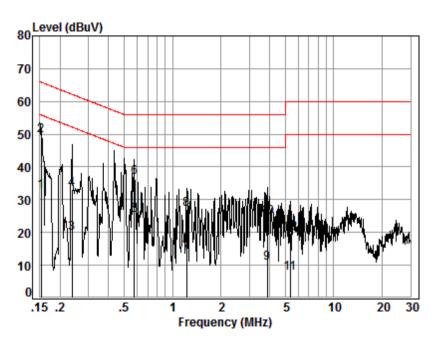
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Mode:q; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 11310CR

Test mode: q

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.63	22.92	32.56	55.87	-23.31	Average
2	0.15	0.01	9.63	40.00	49.64	65.87	-16.23	QP
3	0.24	0.03	9.64	9.95	19.62	52.17	-32.55	Average
4	0.24	0.03	9.64	23.51	33.18	62.17	-28.99	QP
5	0.58	0.07	9.64	15.47	25.18	46.00	-20.82	Average
6	0.58	0.07	9.64	26.95	36.66	56.00	-19.34	QP
7	1.22	0.11	9.70	3.94	13.75	46.00	-32.25	Average
8	1.22	0.11	9.70	17.24	27.05	56.00	-28.95	QP
9	3.86	0.16	9.69	0.89	10.74	46.00	-35.26	Average
10	3.86	0.16	9.69	14.84	24.69	56.00	-31.31	QP
11	5.36	0.17	9.72	-2.14	7.75	50.00	-42.25	Average
12	5.36	0.17	9.72	9.89	19.78	60.00	-40.22	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:

30 MHz - 88 MHz  $40.0 (\text{dB}\mu\text{V/m})$  quasi-peak 88 MHz - 216 MHz  $43.5 (\text{dB}\mu\text{V/m})$  quasi-peak 216 MHz - 960 MHz  $46.0 (\text{dB}\mu\text{V/m})$  quasi-peak  $54.0 (\text{dB}\mu\text{V/m})$  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:

Atmospheric Pressure: 1015 mbar Temperature: 20.4 °C Humidity: 53.7 % RH

The worst case for final test:

c: Transfer data between the EUT and the PC+USB cable1

d: Transfer data between the EUT and the PC+USB cable2

e: Transfer data between the EUT and the PC+USB cable3

f: Transfer data between the EUT and the PC+USB cable4

g: Transfer data between the EUT and the PC+USB cable5

h: Transfer data between the EUT and the PC+USB cable6

g: Telecom Idle+BT+WLAN+GPS Rx+playing MP4 (SD

card)+earphone3+battery3+adapter9

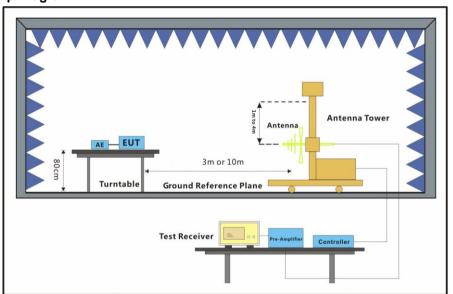
r: Telecom Idle+BT+WLAN+GPS Rx+camera

(Front)+earphone3+battery3+adapter9

s: Telecom Idle+BT+WLAN+GPS Rx+camera

(Back)+earphone3+battery3+adapter9

#### 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.



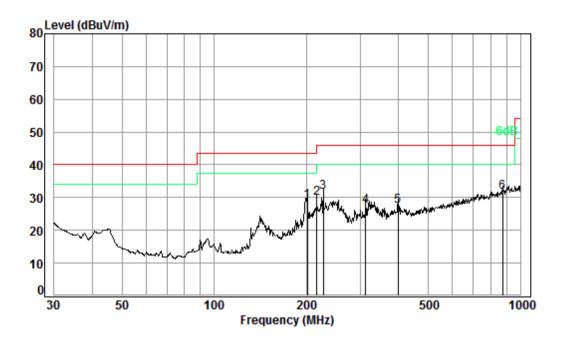
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Mode:c: Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11310CR

Test mode: c

	Freq	Cable Ant eq Loss Factor						
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	201.39	1.41	16.55	26.90	37.69	28.75	43.50	-14.75
2	216.02	1.49	17.07	26.85	37.99	29.70	46.00	-16.30
3 рр	226.89	1.56	17.77	26.82	39.06	31.57	46.00	-14.43
4	312.18	1.94	19.99	26.72	32.22	27.43	46.00	-18.57
5	399.03	2.20	22.38	27.18	30.01	27.41	46.00	-18.59
6	875.25	3.51	29,49	27.19	25.71	31.52	46.00	-14.48



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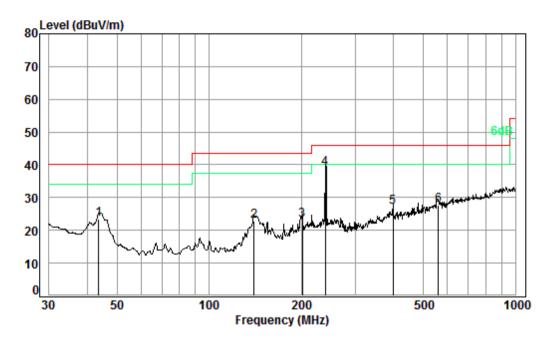
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Mode:c: Polarization:Vertical



Condition: 3m VERTICAL Job No. : 11310CR

Test mode: c

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	43.51	0.68	16.26	27.42	33.81	23.33	40.00	-16.67
2	140.34	1.30	13.73	27.13	34.78	22.68	43.50	-20.82
3	201.39	1.41	16.55	26.90	31.97	23.03	43.50	-20.47
4 pp	239.15	1.62	18.73	26.79	45.23	38.79	46.00	-7.21
5	399.03	2.20	22.38	27.18	29.76	27.16	46.00	-18.84
6	560.69	2.66	25.86	27.82	26.95	27.65	46.00	-18.35



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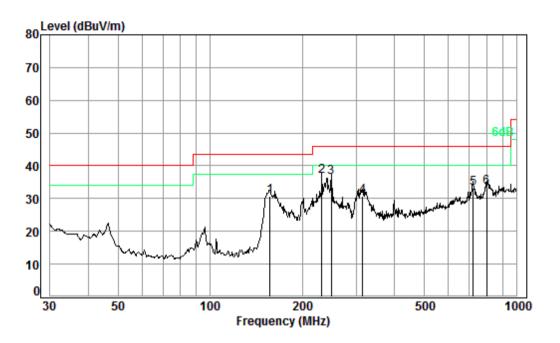
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Mode:d: Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11310CR

Test mode: d

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	157.01	1.33	15.25	27.06	41.13	30.65	43.50	-12.85
2 pp	231.72	1.58	18.15	26.81	43.74	36.66	46.00	-9.34
3	248.55	1.67	18.93	26.76	42.64	36.48	46.00	-9.52
4	314.38	1.95	20.06	26.73	35.54	30.82	46.00	-15.18
5	721.73	2.97	28.04	27.75	30.02	33.28	46.00	-12.72
6	798.98	3.20	28,49	27.64	29.31	33.36	46.00	-12.64



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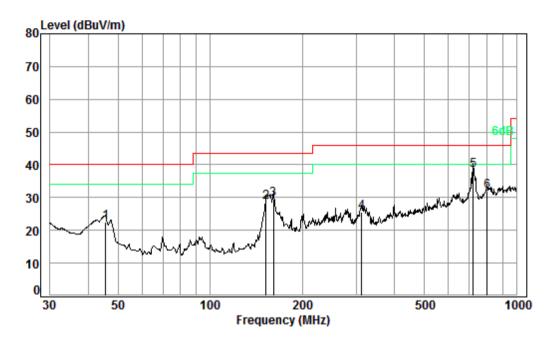
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Mode:d; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 11310CR

Test mode: d

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	45.53	0.72	15.58	27.42	33.73	22.61	40.00	-17.39
2	152.13	1.32	14.82	27.08	39.65	28.71	43.50	-14.79
3	160.91	1.34	15.52	27.04	39.68	29.50	43.50	-14.00
4	312.18	1.94	19.99	26.72	30.44	25.65	46.00	-20.35
5 pp	721.73	2.97	28.04	27.75	35.10	38.36	46.00	-7.64
6	801.79	3.21	28.52	27.63	27.92	32.02	46.00	-13.98



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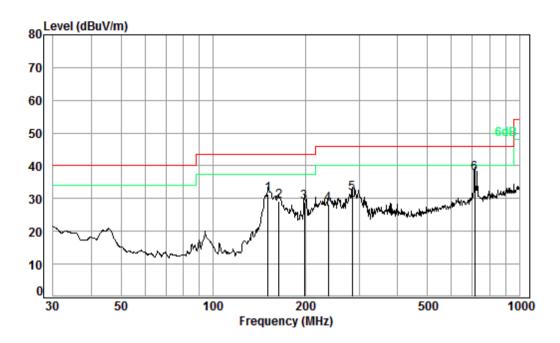
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Mode:e: Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11310CR

Test mode: e

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	151.07	1.32	14.73	27.08	42.37	31.34	43.50	-12.16
2	163.76	1.34	15.58	27.03	39.29	29.18	43.50	-14.32
3	198.59	1.40	16.46	26.91	37.93	28.88	43.50	-14.62
4	237.48	1.61	18.61	26.79	34.94	28.37	46.00	-17.63
5	283.98	1.83	18.96	26.68	37.43	31.54	46.00	-14.46
6 pp	714.17	2.95	27.99	27.76	34.46	37.64	46.00	-8.36



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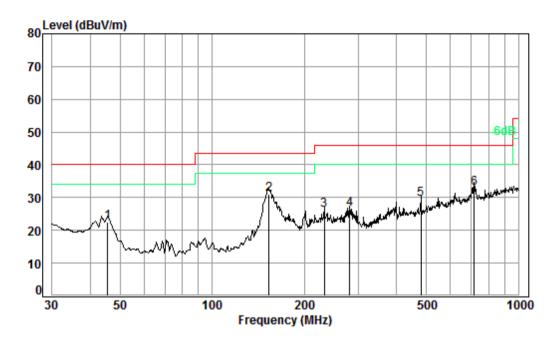
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Mode:e: Polarization:Vertical



Condition: 3m VERTICAL Job No. : 11310CR

Test mode: e

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
-	MU-					dD: 3//	dD: 3//	
	MHz	dB	ab/m	dB	abuv	abuv/m	abuv/m	dB
1	45.53	0.72	15.58	27.42	33.48	22.36	40.00	-17.64
2 pp	153.20	1.32	14.91	27.07	41.76	30.92	43.50	-12.58
3	232.53	1.59	18.22	26.80	33.18	26.19	46.00	-19.81
4	281.01	1.82	18.84	26.68	32.52	26.50	46.00	-19.50
5	480.53	2.53	24.21	27.53	30.15	29.36	46.00	-16.64
6	716.68	2.96	28.01	27.76	29.52	32.73	46.00	-13.27



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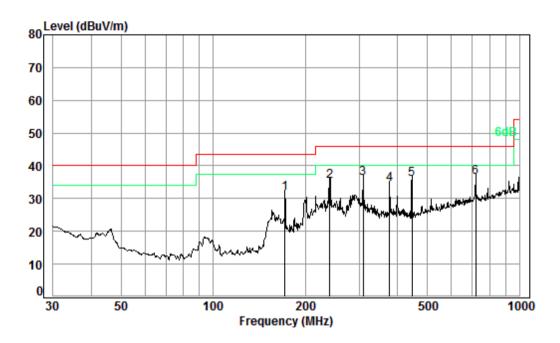
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Mode:f; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11310CR

Test mode: f

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	171.39	1.36	15.73	27.00	41.45	31.54	43.50	-11.96
2	239.99	1.62	18.80	26.78	41.79	35.43	46.00	-10.57
3	308.91	1.93	19.88	26.70	40.95	36.06	46.00	-9.94
4	377.26	2.14	21.83	27.07	37.45	34.35	46.00	-11.65
5	446.41	2.40	23.48	27.39	37.26	35.75	46.00	-10.25
6 pp	719.20	2.96	28.02	27.75	33.17	36,40	46.00	-9.60



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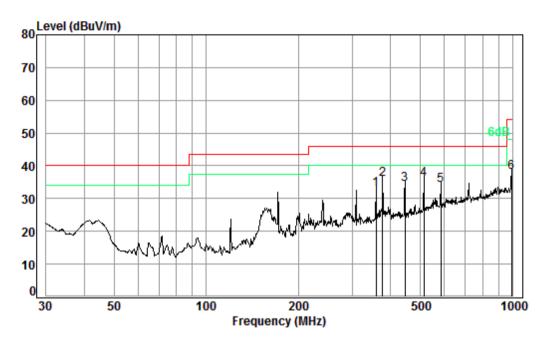
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Mode:f; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 11310CR

Test mode: f

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	359.19	2.09	21.35	26.98	36.25	32.71	46.00	-13.29
2 pp	377.26	2.14	21.83	27.07	38.88	35.78	46.00	-10.22
3	446.41	2.40	23.48	27.39	35.93	34.42	46.00	-11.58
4	513.63	2.62	24.90	27.66	35.91	35.77	46.00	-10.23
5	582.74	2.68	26.28	27.89	33.03	34.10	46.00	-11.90
6	993.01	3.69	30.27	26.56	30.76	38.16	54.00	-15.84



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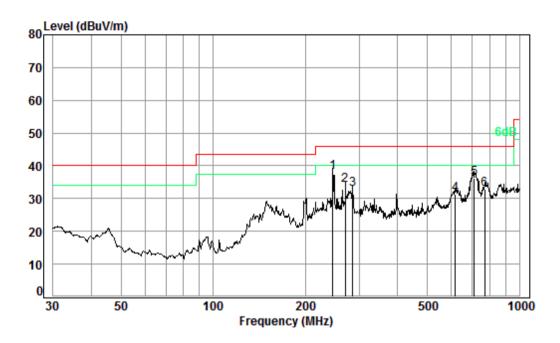
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Mode:g; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11310CR

Test mode: g

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	245.95	1.65	18.89	26.77	44.34	38.11	46.00	-7.89
2	270.37	1.77	18.94	26.71	39.98	33.98	46.00	-12.02
3	285.98	1.84	19.04	26.67	38.59	32.80	46.00	-13.20
4	618.54	2.74	26.86	27.92	29.53	31.21	46.00	-14.79
5	711.67	2.94	27.97	27.77	33.15	36.29	46.00	-9.71
6	771.45	3.12	28.34	27.68	29.22	33.00	46.00	-13.00



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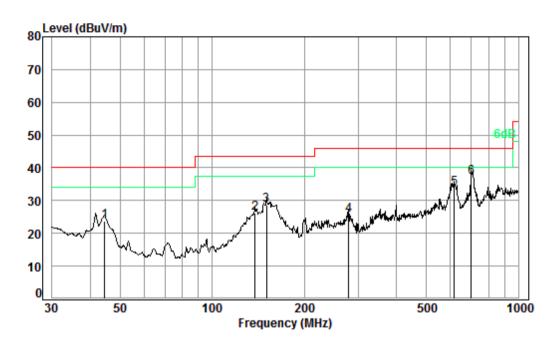
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Mode:g; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 11310CR

Test mode: g

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	44.59	0.70	15.89	27.42	34.47	23.64	40.00	-16.36
2	137.90	1.29	13.64	27.14	38.33	26.12	43.50	-17.38
3	150.54	1.32	14.68	27.09	39.67	28.58	43.50	-14.92
4	279.04	1.81	18.81	26.69	31.53	25.46	46.00	-20.54
5	616.37	2.74	26.83	27.92	32.23	33.88	46.00	-12.12
6 p	701.76	2.91	27.91	27.78	34.09	37.13	46.00	-8.87



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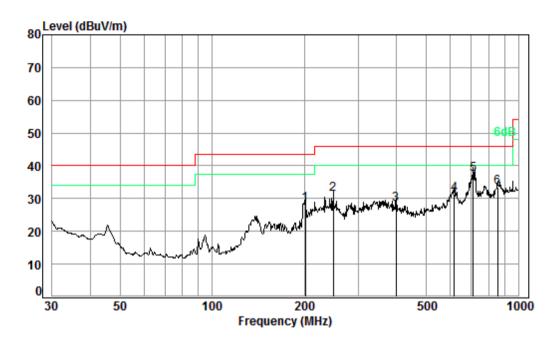
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Mode:h; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11310CR

Test mode: h

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	201.39	1.41	16.55	26.90	37.37	28.43	43.50	-15.07
2	248.55	1.67	18.93	26.76	37.35	31.19	46.00	-14.81
3	399.03	2.20	22.38	27.18	30.80	28.20	46.00	-17.80
4	618.54	2.74	26.86	27.92	29.63	31.31	46.00	-14.69
5 pp	711.67	2.94	27.97	27.77	34.40	37.54	46.00	-8.46
6	854.02	3,42	29.22	27.31	28.05	33.38	46.00	-12.62



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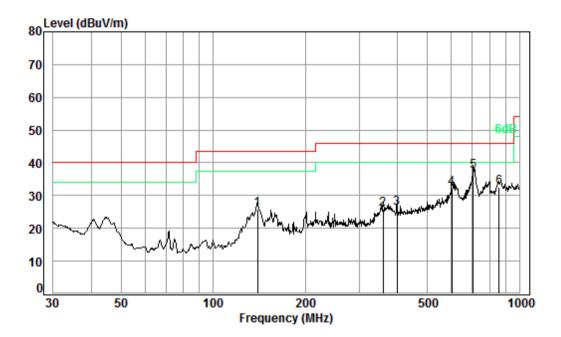
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Mode:h; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 11310CR

Test mode: h

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	139.85	1.30	13.70	27.13	38.06	25.93	43.50	-17.57
2	359.19	2.09	21.35	26.98	29.53	25.99	46.00	-20.01
3	399.03	2.20	22.38	27.18	28.76	26.16	46.00	-19.84
4	601.43	2.70	26.62	27.95	30.79	32.16	46.00	-13.84
5 pp	706.70	2.92	27.94	27.77	34.18	37.27	46.00	-8.73
6	857.02	3.44	29.26	27.30	27.08	32,48	46.00	-13.52



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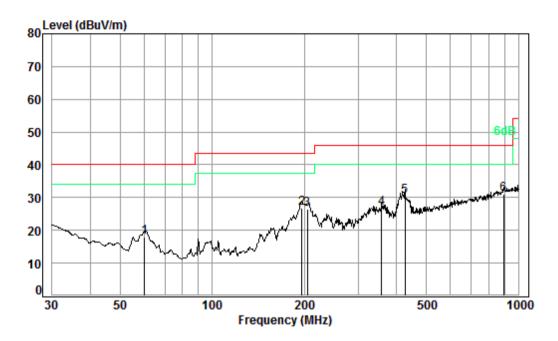
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Mode:q; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11310CR

Test mode: q

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	60.07	0.80	13.20	27.39	31.26	17.87	40.00	-22.13
2	196.51	1.39	16.40	26.91	35.98	26.86	43.50	-16.64
3	204.96	1.43	16.68	26.89	35.17	26.39	43.50	-17.11
4	357.93	2.08	21.32	26.97	30.26	26.69	46.00	-19.31
5	426.52	2.31	23.03	27.31	32.42	30.45	46.00	-15.55
6 pp	893.86	3.58	29.72	27.09	24.86	31.07	46.00	-14.93



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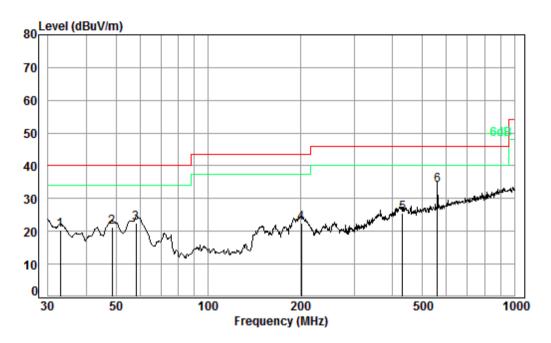
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Mode:q; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 11310CR

Test mode: q

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.86	0.60	20.92	27.45	26.44	20.51	40.00	-19.49
2	48.50	0.77	14.65	27.41	33.31	21.32	40.00	-18.68
3	58.20	0.80	13.37	27.40	35.89	22.66	40.00	-17.34
4	201.39	1.41	16.55	26.90	31.46	22.52	43.50	-20.98
5	431.03	2.33	23.14	27.32	27.31	25.46	46.00	-20.54
6 pp	560.69	2.66	25.86	27.82	33.46	34.16	46.00	-11.84



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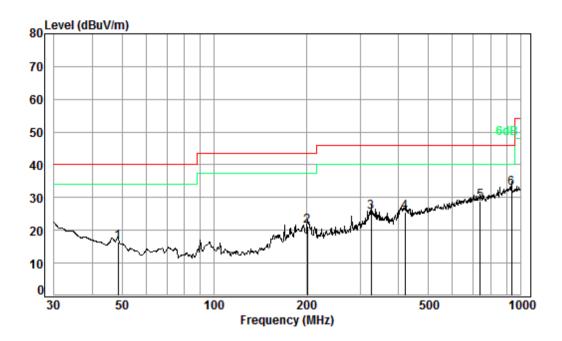
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Mode:r; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11310CR

Test mode: r

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	48.50	0.77	14.65	27.41	28.34	16.35	40.00	-23.65
2	201.39	1.41	16.55	26.90	30.19	21.25	43.50	-22.25
3	325.60	1.98	20.40	26.79	29.94	25.53	46.00	-20.47
4	420.58	2.29	22.89	27.28	27.70	25.60	46.00	-20.40
5	739.66	3.03	28.15	27.72	25.57	29.03	46.00	-16.97
6 pp	935.55	3.64	29.98	26.86	26.07	32.83	46.00	-13.17



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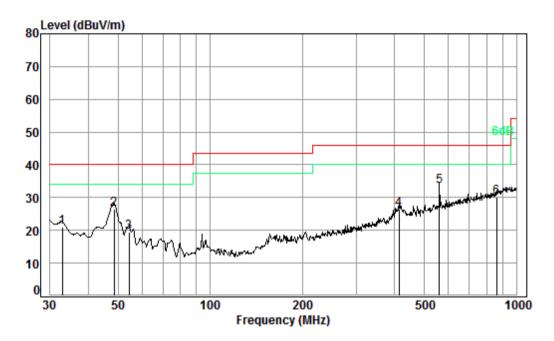
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Mode:r: Polarization:Vertical



Condition: 3m VERTICAL Job No. : 11310CR

Test mode: r

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.86	0.60	20.92	27.45	26.94	21.01	40.00	-18.99
2	48.50	0.77	14.65	27.41	38.37	26.38	40.00	-13.62
3	54.26	0.80	13.75	27.40	32.37	19.52	40.00	-20.48
4	413.27	2.26	22.72	27.25	28.67	26.40	46.00	-19.60
5 pp	560.69	2.66	25.86	27.82	32.85	33.55	46.00	-12.45
6	863.06	3.46	29.34	27.26	24.59	30.13	46.00	-15.87



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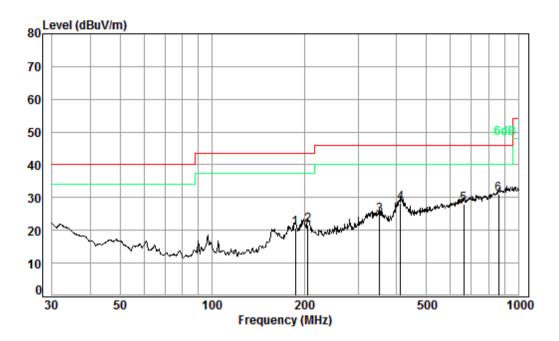
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Mode:s: Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11310CR

Test mode: s

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	187.10	1.38	16.12	26.95	30.19	20.74	43.50	-22.76
2	205.68	1.43	16.71	26.88	30.42	21.68	43.50	-21.82
3	351.71	2.06	21.15	26.94	28.38	24.65	46.00	-21.35
4	411.82	2.25	22.69	27.24	30.59	28.29	46.00	-17.71
5	663.47	2.83	27.45	27.84	25.54	27.98	46.00	-18.02
6 pp	863.06	3.46	29.34	27.26	25.36	30.90	46.00	-15.10



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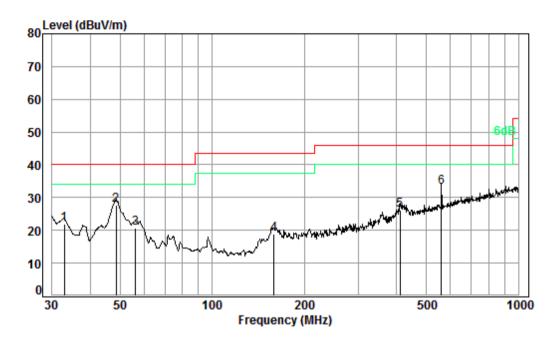
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Mode:s: Polarization:Vertical



Condition: 3m VERTICAL Job No. : 11310CR

Test mode: s

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.86	0.60	20.92	27.45	27.96	22.03	40.00	-17.97
2 pp	48.50	0.77	14.65	27.41	39.61	27.62	40.00	-12.38
3	56.20	0.80	13.56	27.40	33.82	20.78	40.00	-19.22
4	159.23	1.33	15.43	27.05	29.03	18.74	43.50	-24.76
5	410.38	2.24	22.65	27.23	28.59	26.25	46.00	-19.75
6	560.69	2.66	25.86	27.82	32.52	33.22	46.00	-12.78



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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 to 40000MHz

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

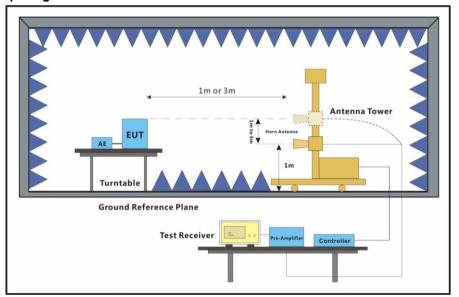
Operating Environment:

Temperature: 21.1 °C Humidity: 53.5 % RH Atmospheric Pressure: 1015 mbar

The worst case c: Transfer data between the EUT and the PC+USB cable1 for final test: i: GSM 850+BT+WLAN+GPS Rx+earphone1+battery1+adapter1

s: Telecom Idle+BT+WLAN+GPS Rx+camera (Back)+earphone3+battery3+adapter9

#### 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.

Scan from 1GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed.



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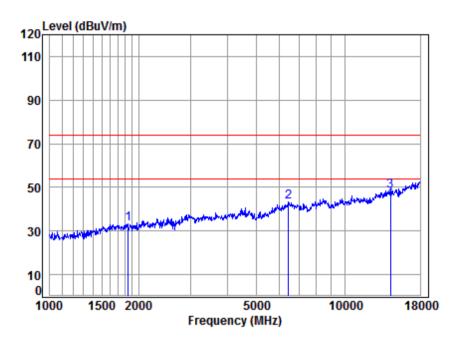
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Mode:c; Polarization:Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 11310CR

Mode : c

				_				_		
		Cable	Ant	Preamp	Kead		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
							ID 1//			-
	MHz	dВ	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1845.516	E 06	27 24	40 01	42.00	22 40	74 00	40 E2	Dook	
2	6451.353	11.45	35.55	42.44	38.65	43.21	74.00	-30.79	Peak	
3	14284.030	13.74	39.77	40.26	35.32	48.57	74.00	-25.43	Peak	
4	14284.030	13.74	39.77	40.26	31.09	44.34	54.00	-9.66	Average	



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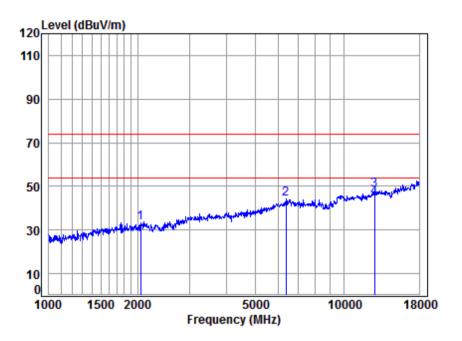
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Mode:c: Polarization:Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 11310CR

Mode : c

Freq			Preamp Factor					Remark
MHz	——dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
2047.895								
6358.789 12687.750								
12687.750	12.87	38.09	39.20	33.00	44.76	54.00	-9.24	Average



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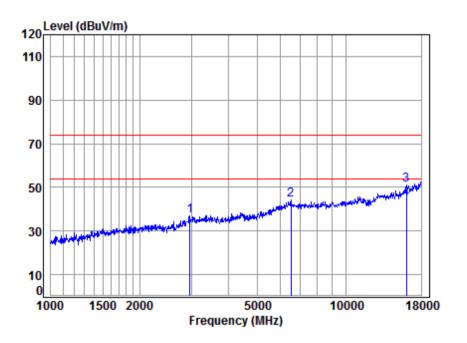
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Mode:i; Polarization:Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 11310CR

Mode : i

> 1 2 3

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2964.712	5.96	30.76	41.39	41.53	36.86	74.00	-37.14	Peak
6507.536	11.52	35.60	42.40	39.46	44.18	74.00	-29.82	Peak
16034.730	14.96	41.08	40.52	35.68	51.20	74.00	-22.80	Peak
16034.730	14.96	41.08	40.52	29.34	44.86	54.00	-9.14	Average



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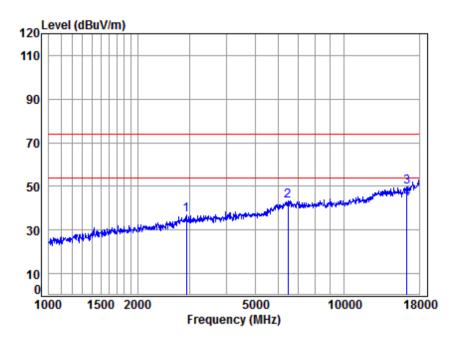
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Mode:i; Polarization:Vertical



Site : chamber Condition: 3m VERTICAL Job No : 11310CR

Mode : i

> 1 2 3

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2930.633								
6470.026 16362.460								
16362.460								



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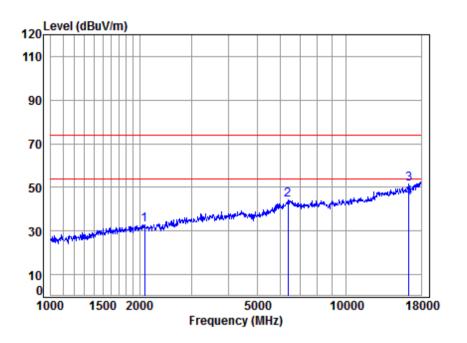
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Mode:s: Polarization:Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 11310CR

Mode : s

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2077.705	5.02	27.95	41.03	41.08	33.02	74.00	-40.98	Peak
2	6358.789	11.27	35.46	42.52	39.99	44.20	74.00	-29.80	Peak
3	16362.460	14.63	41.87	40.46	35.47	51.51	74.00	-22.49	Peak
4	16362.460	14.63	41.87	40.46	28.96	45.00	54.00	-9.00	Average



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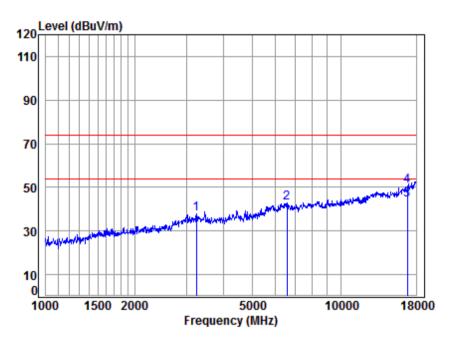
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Mode:s: Polarization:Vertical



Site : chamber Condition: 3m VERTICAL Job No : 11310CR

Mode : s

> 1 2 3

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
3233.260	6.21	31.29	41.75	42.04	37.79	74.00	-36.21	Peak
6564.209	11.35	35.64	42.35	38.29	42.93	74.00	-31.07	Peak
16842.290	16.02	42.48	40.38	26.21	44.33	54.00	-9.67	Average
16842,290	16.02	42.48	40.38	32.63	50.75	74.00	-23.25	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

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