



Report No.: SZEM191001941901

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# TEST REPORT

**Application No.:** SZEM1910019419CR **Applicant:** BLU Products, Inc.

Address of Applicant: 10814 NW 33rd St # 100 Doral, FL 33172, USA

Manufacturer: BLU Products, Inc.

Address of Manufacturer: 10814 NW 33rd St # 100 Doral, FL 33172, USA

**Equipment Under Test (EUT):** 

EUT Name: Smart Phone
Model No.: B110DL
Trade mark: BLU

FCC ID: YHLBLUB110DL

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

**Date of Receipt:** 2019-10-18

**Date of Test:** 2019-10-18 to 2019-10-19

**Date of Issue:** 2019-10-21

Test Result: Pass\*

Keny Xu EMC Laboratory Manager



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



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	Revision Record							
Version	Version Chapter Date Modifier Rema							
01		2019-10-21		Original				

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



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## **Test Summary**

<b>Emission Part</b>				
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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### General Information

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

Power supply:	DC 3.8V from internal rechargeable battery or from AC/DC adapter	
	Model No.: TPA-46050200UU	
	AC Input: 100-240V 50/60Hz 0.3A	
	DC Output: DC 5V 2000mA	
Cable:	USB cable: 100cm shielded	

#### 4.2 Test modes

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

e: Transfer data between the EUT and the PC

f: Telecom Idle+BT+WLAN+GPS Rx+playing MP4+earphone+battery+adapter

g: Telecom Idle+BT+WLAN+GPS Rx+ camera (Front)+earphone+battery+adapter

h: Telecom Idle+BT+WLAN+GPS Rx+ camera (Back)+earphone+battery+adapter

i: GSM 850+BT+WLAN+GPS Rx+earphone+battery+adapter

j: GSM 1900+BT+WLAN+GPS Rx+earphone+battery+adapter

k: WCDMA Band2 +BT+WLAN+GPS Rx+earphone+battery+adapter

I: WCDMA Band4 +BT+WLAN+GPS Rx+earphone+battery+adapter

m: WCDMA Band5 +BT+WLAN+GPS Rx+earphone+battery+adapter

n: LTE Band2+BT+WLAN+GPS Rx+earphone+battery+adapter

o: LTE Band4+BT+WLAN+GPS Rx+earphone+battery+adapter

p: LTE Band5+BT+WLAN+GPS Rx+earphone+battery+adapter g: LTE Band12+BT+WLAN+GPS Rx+earphone+battery+adapter

r: LTE Band12+BT+WLAN+GPS Rx+earphone+battery+adapter

s: LTE Band25+BT+WLAN+GPS Rx+earphone+battery+adapter t: LTE Band26+BT+WLAN+GPS Rx+earphone+battery+adapter

u: LTE Band66+BT+WLAN+GPS Rx+earphone+battery+adapter

v: LTE Band71+BT+WLAN+GPS Rx+earphone+battery+adapter w: LTE Band41+BT+WLAN+GPS Rx+earphone+battery+adapter

#### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200
Laptop	Lenovo	L480	PF-1N6C3V



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### 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
4	Conduction Emission	± 3.45dB (9kHz to 150kHz)
'	Conduction Emission	± 3.0dB (150kHz to 30MHz)
		± 3.1dB (9kHz-30MHz)
2	Radiated Emission	± 4.5dB (30MHz-1GHz)
		± 4.8dB (1GHz-6GHz)
3	Temperature test	± 1 ℃
4	Humidity test	± 3%



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#### 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

#### 4.8 Abnormalities from Standard Conditions

None



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## **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	2019-09-24	2020-09-23	
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	2019-09-24	2020-09-23	
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	2019-09-24	2020-09-23	



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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	2019-09-26	2020-09-25		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25		
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( $\mu$ 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:

Temperature: 23.1 °C Humidity: 52.5 % RH Atmospheric Pressure: 1015 mbar

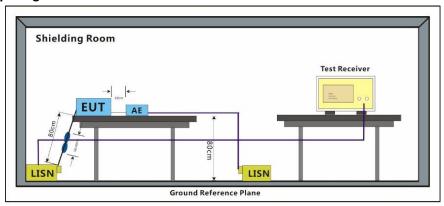
e: Transfer data between the EUT and the PC The worst case

for final test: f: Telecom Idle+BT+WLAN+GPS Rx+playing MP4+earphone+battery+adapter

> g: Telecom Idle+BT+WLAN+GPS Rx+ camera (Front)+earphone+battery+adapter h: Telecom Idle+BT+WLAN+GPS Rx+ camera (Back)+earphone+battery+adapter

i: GSM 850+BT+WLAN+GPS Rx+earphone+battery+adapter

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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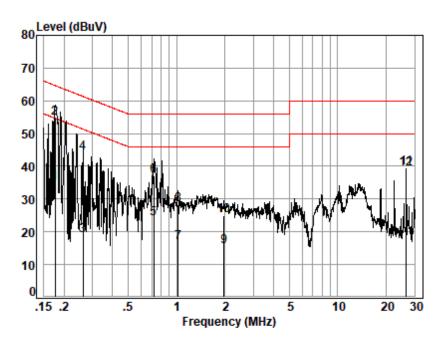
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Report No.: SZEM191001941901

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Mode:e; Line:Live Line



: Shielding Room

Condition: Line Job No. : 19419CR

Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.49	25.62	35.13	54.64	-19.51	Average
2	0.18	0.02	9.49	45.35	54.86	64.64	-9.78	QP
3	0.26	0.03	9.54	9.23	18.80	51.34	-32.54	Average
4	0.26	0.03	9.54	34.52	44.09	61.34	-17.25	QP
5	0.72	0.08	9.63	14.21	23.92	46.00	-22.08	Average
6	0.72	0.08	9.63	27.42	37.13	56.00	-18.87	QP
7	1.02	0.09	9.63	6.91	16.63	46.00	-29.37	Average
8	1.02	0.09	9.63	18.53	28.25	56.00	-27.75	QP
9	1.97	0.16	9.64	5.76	15.56	46.00	-30.44	Average
10	1.97	0.16	9.64	15.18	24.98	56.00	-31.02	QP
11	26.62	0.27	10.23	28.95	39.45	50.00	-10.55	Average
12	26.62	0.27	10.23	28.78	39.28	60.00	-20.72	QP



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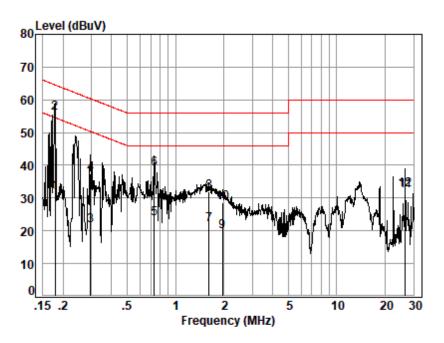
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Mode:e; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 19419CR

Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.44	22.32	31.78	54.55	-22.77	Average
2	0.18	0.02	9.44	46.49	55.95	64.55	-8.60	QP
3	0.30	0.04	9.49	12.17	21.70	50.37	-28.67	Average
4	0.30	0.04	9.49	27.90	37.43	60.37	-22.94	QP
5	0.74	0.08	9.63	14.13	23.84	46.00	-22.16	Average
6	0.74	0.08	9.63	29.18	38.89	56.00	-17.11	QP
7	1.61	0.14	9.69	12.19	22.02	46.00	-23.98	Average
8	1.61	0.14	9.69	22.25	32.08	56.00	-23.92	QP
9	1.95	0.16	9.70	9.89	19.75	46.00	-26.25	Average
10	1.95	0.16	9.70	18.74	28.60	56.00	-27.40	QP
11	26.70	0.27	10.43	21.49	32.19	50.00	-17.81	Average
12	26.70	0.27	10.43	21.77	32.47	60.00	-27.53	QP



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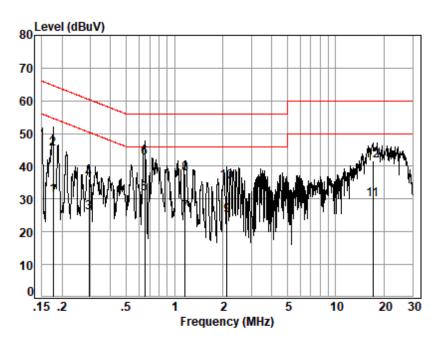
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Mode:f; Line:Live Line



: Shielding Room

Condition: Line Job No. : 19419CR

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	9.49	21.61	31.12	54.68	-23.56	Average
2	0.18	0.02	9.49	35.88	45.39	64.68	-19.29	QP
3	0.29	0.04	9.55	16.21	25.80	50.41	-24.61	Average
4	0.29	0.04	9.55	26.48	36.07	60.41	-24.34	QP
5	0.65	0.07	9.63	21.98	31.68	46.00	-14.32	Average
6	0.65	0.07	9.63	32.88	42.58	56.00	-13.42	QP
7	1.16	0.10	9.64	16.17	25.91	46.00	-20.09	Average
8	1.16	0.10	9.64	27.94	37.68	56.00	-18.32	QP
9	2.11	0.16	9.64	15.15	24.95	46.00	-21.05	Average
10	2.11	0.16	9.64	25.34	35.14	56.00	-20.86	QP
11	17.02	0.22	10.04	19.55	29.81	50.00	-20.19	Average
12	17.02	0.22	10.04	31.40	41.66	60.00	-18.34	QP



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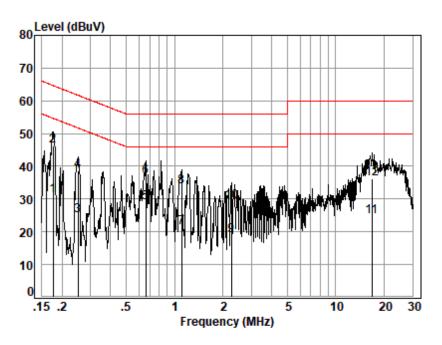
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Report No.: SZEM191001941901

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Mode:f; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 19419CR

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	9.43	21.52	30.97	54.68	-23.71	Average
2	0.18	0.02	9.43	36.80	46.25	64.68	-18.43	QP
3	0.25	0.03	9.47	15.43	24.93	51.69	-26.76	Average
4	0.25	0.03	9.47	29.07	38.57	61.69	-23.12	QP
5	0.66	0.07	9.61	19.20	28.88	46.00	-17.12	Average
6	0.66	0.07	9.61	27.13	36.81	56.00	-19.19	QP
7	1.11	0.10	9.67	11.66	21.43	46.00	-24.57	Average
8	1.11	0.10	9.67	23.88	33.65	56.00	-22.35	QP
9	2.25	0.16	9.70	8.90	18.76	46.00	-27.24	Average
10	2.25	0.16	9.70	19.29	29.15	56.00	-26.85	QP
11	16.84	0.22	10.14	14.17	24.53	50.00	-25.47	Average
12	16.84	0.22	10.14	25.82	36.18	60.00	-23.82	QP



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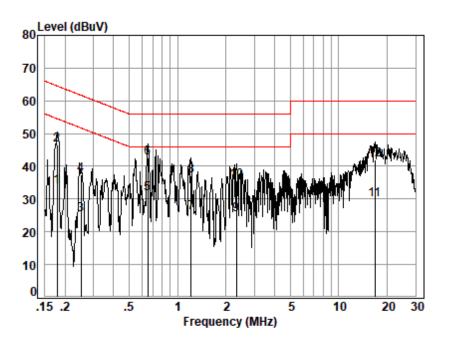
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Report No.: SZEM191001941901

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Mode:g; Line:Live Line



: Shielding Room

Condition: Line Job No. : 19419CR

Test mode: g

	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	9.50	24.34	33.86	54.55	-20.69	Average
2	0.18	0.02	9.50	37.00	46.52	64.55	-18.03	QP
3	0.25	0.03	9.53	15.82	25.38	51.73	-26.35	Average
4	0.25	0.03	9.53	27.94	37.50	61.73	-24.23	QP
5	0.65	0.07	9.63	21.84	31.54	46.00	-14.46	Average
6	0.65	0.07	9.63	33.00	42.70	56.00	-13.30	QP
7	1.22	0.11	9.64	15.97	25.72	46.00	-20.28	Average
8	1.22	0.11	9.64	27.29	37.04	56.00	-18.96	QP
9	2.32	0.16	9.65	15.39	25.20	46.00	-20.80	Average
10	2.32	0.16	9.65	25.88	35.69	56.00	-20.31	QP
11	16.75	0.22	10.03	19.65	29.90	50.00	-20.10	Average
12	16.75	0.22	10.03	31.67	41.92	60.00	-18.08	QP



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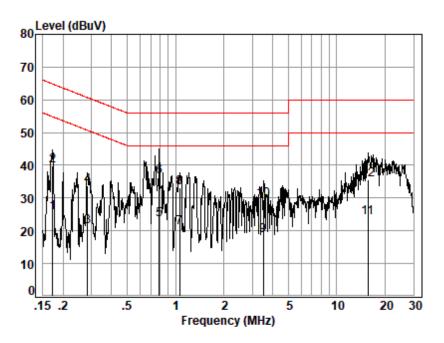
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Report No.: SZEM191001941901

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Mode:g; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 19419CR

Test mode: g

	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	9.43	16.03	25.48	54.86	-29.38	Average
2	0.17	0.02	9.43	30.33	39.78	64.86	-25.08	QP
3	0.28	0.04	9.48	11.77	21.29	50.72	-29.43	Average
4	0.28	0.04	9.48	24.22	33.74	60.72	-26.98	QP
5	0.79	0.08	9.64	13.63	23.35	46.00	-22.65	Average
6	0.79	0.08	9.64	26.71	36.43	56.00	-19.57	QP
7	1.06	0.10	9.66	11.25	21.01	46.00	-24.99	Average
8	1.06	0.10	9.66	23.30	33.06	56.00	-22.94	QP
9	3.51	0.16	9.73	8.71	18.60	46.00	-27.40	Average
10	3.51	0.16	9.73	19.64	29.53	56.00	-26.47	QP
11	15.63	0.21	10.08	13.63	23.92	50.00	-26.08	Average
12	15.63	0.21	10.08	25.32	35.61	60.00	-24.39	QP



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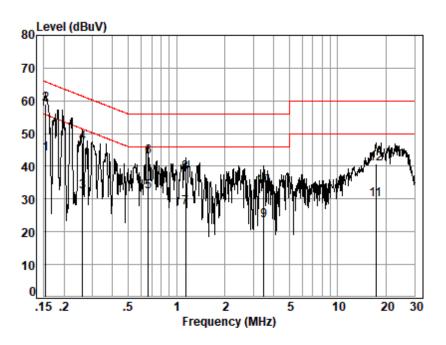
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Mode:h; Line:Live Line



: Shielding Room

Condition: Line Job No. : 19419CR

Test mode: h

	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	9.48	34.29	43.78	55.78	-12.00	Average
2	0.15	0.01	9.48	49.42	58.91	65.78	-6.87	QP
3	0.26	0.03	9.53	22.75	32.31	51.42	-19.11	Average
4	0.26	0.03	9.53	37.74	47.30	61.42	-14.12	QP
5	0.66	0.07	9.63	22.39	32.09	46.00	-13.91	Average
6	0.66	0.07	9.63	33.07	42.77	56.00	-13.23	QP
7	1.14	0.10	9.64	17.58	27.32	46.00	-18.68	Average
8	1.14	0.10	9.64	28.32	38.06	56.00	-17.94	QP
9	3.47	0.16	9.68	13.43	23.27	46.00	-22.73	Average
10	3.47	0.16	9.68	23.97	33.81	56.00	-22.19	QP
11	17.29	0.22	10.06	19.68	29.96	50.00	-20.04	Average
12	17.29	0.22	10.06	30.57	40.85	60.00	-19.15	QP



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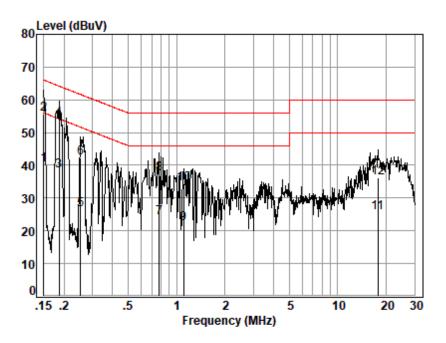
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Report No.: SZEM191001941901

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Mode:h; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 19419CR

Test mode: h

	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	9.42	30.80	40.23	56.00	-15.77	Average
2	0.15	0.01	9.42	46.25	55.68	66.00	-10.32	QP
3	0.19	0.02	9.44	28.74	38.20	54.20	-16.00	Average
4	0.19	0.02	9.44	44.60	54.06	64.20	-10.14	QP
5	0.25	0.03	9.47	17.11	26.61	51.64	-25.03	Average
6	0.25	0.03	9.47	32.88	42.38	61.64	-19.26	QP
7	0.78	0.08	9.64	14.29	24.01	46.00	-21.99	Average
8	0.78	0.08	9.64	27.73	37.45	56.00	-18.55	QP
9	1.11	0.10	9.67	12.40	22.17	46.00	-23.83	Average
10	1.11	0.10	9.67	24.57	34.34	56.00	-21.66	QP
11	17.75	0.23	10.19	14.99	25.41	50.00	-24.59	Average
12	17.75	0.23	10.19	25.86	36.28	60.00	-23.72	QP



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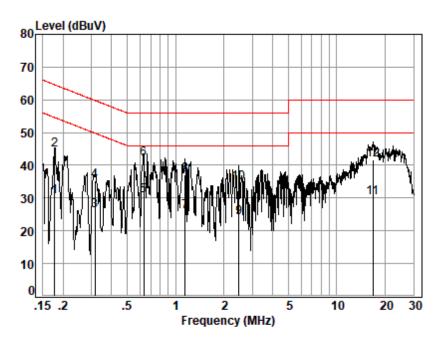
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Mode:i; Line:Live Line



: Shielding Room

Condition: Line Job No. : 19419CR

Test mode: i

	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	9.50	21.05	30.57	54.59	-24.02	Average
2	0.18	0.02	9.50	35.09	44.61	64.59	-19.98	QP
3	0.32	0.04	9.55	16.49	26.08	49.80	-23.72	Average
4	0.32	0.04	9.55	25.59	35.18	59.80	-24.62	QP
5	0.63	0.07	9.62	20.97	30.66	46.00	-15.34	Average
6	0.63	0.07	9.62	32.21	41.90	56.00	-14.10	QP
7	1.15	0.10	9.64	15.99	25.73	46.00	-20.27	Average
8	1.15	0.10	9.64	27.28	37.02	56.00	-18.98	QP
9	2.47	0.16	9.65	14.19	24.00	46.00	-22.00	Average
10	2.47	0.16	9.65	24.94	34.75	56.00	-21.25	QP
11	16.84	0.22	10.03	19.96	30.21	50.00	-19.79	Average
12	16.84	0.22	10.03	31.45	41.70	60.00	-18.30	QP



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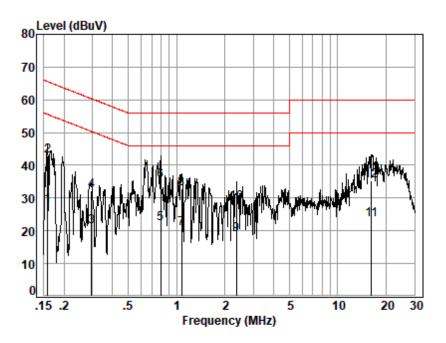
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Mode:i; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 19419CR

Test mode: i

	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	9.42	18.31	27.74	55.56	-27.82	Average
2	0.16	0.01	9.42	33.33	42.76	65.56	-22.80	QP
3	0.30	0.04	9.49	11.76	21.29	50.37	-29.08	Average
4	0.30	0.04	9.49	22.58	32.11	60.37	-28.26	QP
5	0.80	0.08	9.64	12.59	22.31	46.00	-23.69	Average
6	0.80	0.08	9.64	25.44	35.16	56.00	-20.84	QP
7	1.08	0.10	9.66	10.98	20.74	46.00	-25.26	Average
8	1.08	0.10	9.66	22.97	32.73	56.00	-23.27	QP
9	2.36	0.16	9.70	9.00	18.86	46.00	-27.14	Average
10	2.36	0.16	9.70	18.72	28.58	56.00	-27.42	QP
11	16.14	0.22	10.10	13.15	23.47	50.00	-26.53	Average
12	16.14	0.22	10.10	24.99	35.31	60.00	-24.69	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:

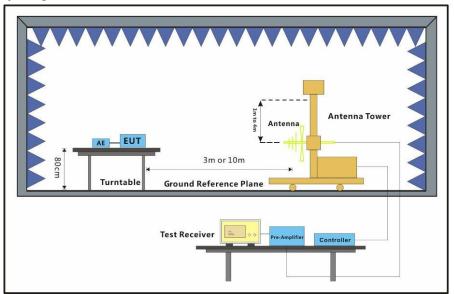
Atmospheric Pressure: 1015 mbar Temperature: 25 °C Humidity: 51 % RH

The worst case e: Transfer data between the EUT and the PC

for final test: g: Telecom Idle+BT+WLAN+GPS Rx+ camera (Front)+earphone+battery+adapter

i: GSM 850+BT+WLAN+GPS Rx+earphone+battery+adapter

#### 6.2.2 Test Setup Diagram



#### 6.2.3 Measurement Data

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



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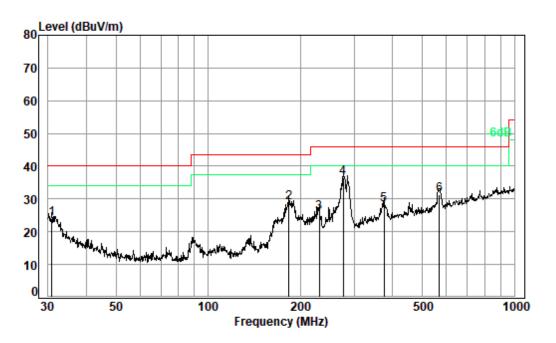
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Mode:e; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 19419CR

Test mode: e

	Freq			Preamp Factor				Over Limit
-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB
1	30.85	0.60	22.01	27.73	29.03	23.91	40.00	-16.09
2	183.84	1.38	16.02	27.22	38.66	28.84	43.50	-14.66
3	230.91	1.58	18.09	27.07	33.28	25.88	46.00	-20.12
4 pp	276.12	1.80	18.86	26.95	42.93	36.64	46.00	-9.36
5	374.62	2.13	21.76	27.30	31.74	28.33	46.00	-17.67
6	568.61	2.67	26.01	28.07	30.69	31.30	46.00	-14.70



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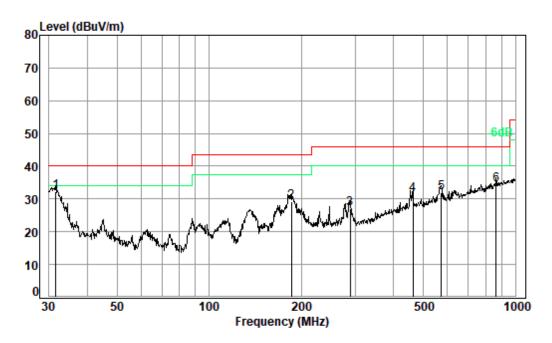
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Mode:e; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 19419CR

Test mode: e

				Preamp				0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	31.62	0.60	21.59	27.73	37.67	32.13	40.00	-7.87
2	185.79	1.38	16.08	27.22	39.11	29.35	43.50	-14.15
3	289.00	1.85	19.17	26.92	33.07	27.17	46.00	-18.83
4	462.35	2.46	23.83	27.69	32.77	31.37	46.00	-14.63
5	572.61	2.67	26.09	28.08	31.34	32.02	46.00	-13.98
6	866.09	3.47	29.38	27.43	28.97	34.39	46.00	-11.61



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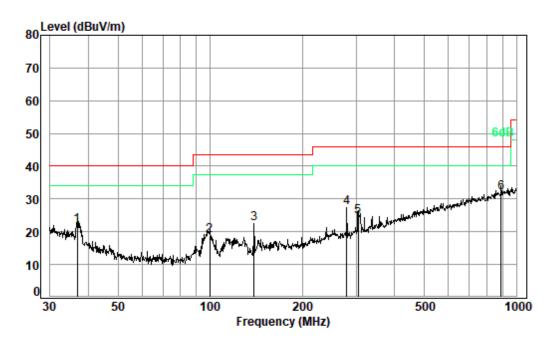
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Mode:g; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 19419CR

Test mode: g

	Freq					Read Level Level		
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.90	0.60	18.90	27.71	30.16	21.95	40.00	-18.05
2	99.53	1.20	13.96	27.64	31.31	18.83	43.50	-24.67
3	139.36	1.30	13.68	27.41	35.03	22.60	43.50	-20.90
4	279.04	1.81	18.81	26.94	33.78	27.46	46.00	-18.54
5	304.61	1.91	19.75	26.92	29.76	24.50	46.00	-21.50
6 pp	890.73	3.56	29.69	27.33	26.16	32.08	46.00	-13.92



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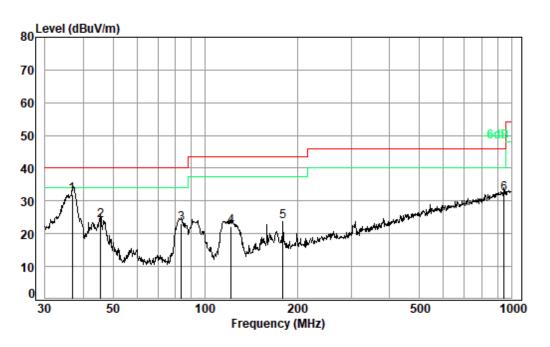
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Mode:g; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 19419CR

Test mode: g

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	36.90	0.60	18.90	27.71	40.10	31.89	40.00	-8.11
2	45.53	0.72	15.58	27.70	35.40	24.00	40.00	-16.00
3	83.52	1.10	12.40	27.65	37.14	22.99	40.00	-17.01
4	121.55	1.26	13.15	27.51	35.31	22.21	43.50	-21.29
5	179.39	1.37	15.89	27.24	33.79	23.81	43.50	-19.69
6	945.44	3.65	30.03	27.11	25.61	32.18	46.00	-13.82



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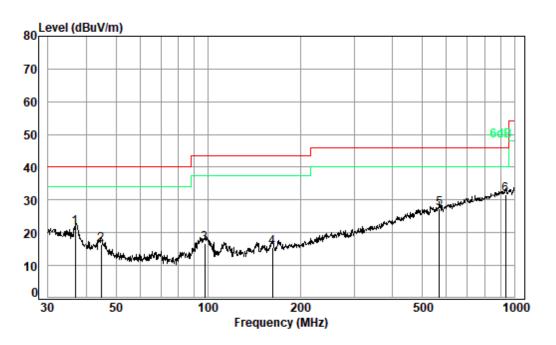
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Mode:i; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 19419CR

Test mode: i

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.90	0.60	18.90	27.71	29.84	21.63	40.00	-18.37
2	44.74	0.70	15.84	27.70	27.64	16.48	40.00	-23.52
3	97.46	1.18	13.78	27.64	29.55	16.87	43.50	-26.63
4	162.04	1.34	15.54	27.31	26.01	15.58	43.50	-27.92
5	568.61	2.67	26.01	28.07	26.80	27.41	46.00	-18.59
6 pp	935.55	3.64	29.98	27.15	25.14	31.61	46.00	-14.39



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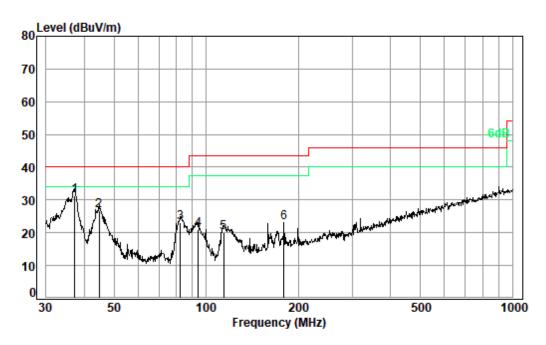
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Report No.: SZEM191001941901

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Mode:i; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 19419CR

Test mode: i

	Freq			Preamp Read Factor Level				Over Limit	
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	37.29	0.60	18.72	27.71	39.79	31.40	40.00	-8.60	
2	44.74	0.70	15.84	27.70	37.90	26.74	40.00	-13.26	
3	82.36	1.10	12.27	27.65	37.30	23.02	40.00	-16.98	
4	94.10	1.14	13.48	27.64	34.16	21.14	43.50	-22.36	
5	114.11	1.24	13.35	27.55	33.18	20.22	43.50	-23.28	
6	179.39	1.37	15.89	27.24	33.12	23.14	43.50	-20.36	



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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

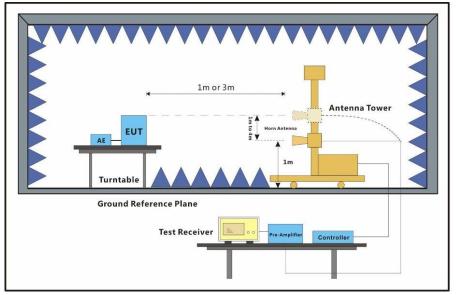
Operating Environment:

Temperature: 19.7 °C Humidity: 54.6 % RH Atmospheric Pressure: 1015 mbar

The worst case e: Transfer data between the EUT and the PC

for final test: h: Telecom Idle+BT+WLAN+GPS Rx+ camera (Back)+earphone+battery+adapter

#### 6.3.2 Test Setup Diagram



#### 6.3.3 Measurement Data

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



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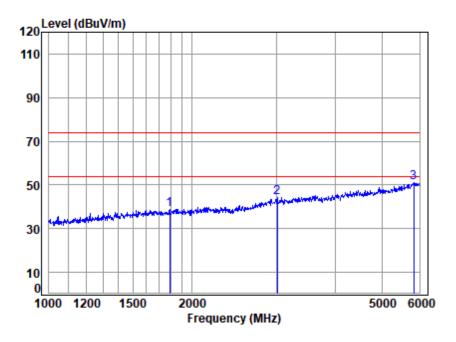
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Mode:e; Polarization:Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 19419CR

Mode

oue										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1793.401	5.12	27.04	40.68	47.18	38.66	74.00	-35.34	Peak	
2	3015.374	6.00	30.93	41.22	48.54	44.25	74.00	-29.75	Peak	
3	5830.433	10.00	34.94	42.34	48.67	51.27	74.00	-22.73	Peak	



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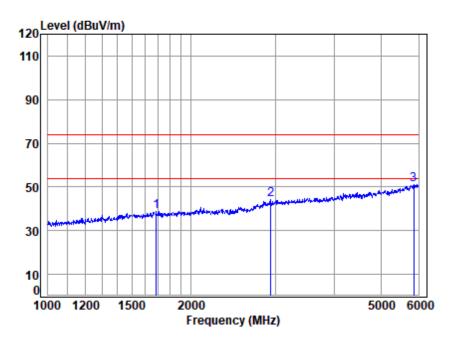


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Mode:e; Polarization:Vertical



Site : chamber Condition: 3m VERTICAL Job No : 19419CR

Mode

1 2 3

_										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	1690.434	5.24	26.63	40.63	47.74	38.98	74.00	-35.02	Peak	
2	2940.675	5.94	30.66	41.18	48.70	44.12	74.00	-29.88	Peak	
	5861 858	10 11	3/1 97	12 32	48 25	51 01	74 00	-22 99	Peak	



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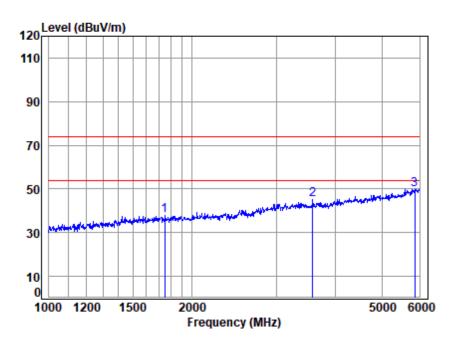
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Mode:h; Polarization:Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 19419CR

Mode

ouc										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1752.110	5.17	26.88	40.66	46.62	38.01	74.00	-35.99	Peak	
2	3581.325	6.55	31.87	41.79	48.70	45.33	74.00	-28.67	Peak	
3	5861 858	10 11	3/1 97	12 32	17 09	49 85	74 00	-24 15	Peak	



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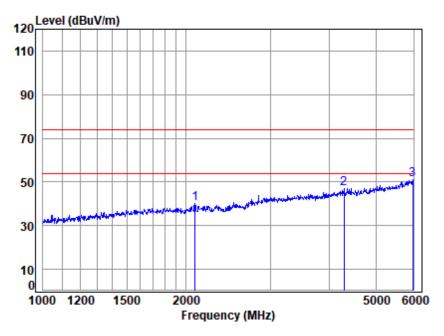
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Mode:h; Polarization:Vertical



Site : chamber Condition: 3m VERTICAL Job No : 19419CR

Mode

oue										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2088.431	5.04	27.97	40.84	47.82	39.99	74.00	-34.01	Peak	
2	4291.775	7.33	33.24	42.39	48.86	47.04	74.00	-26.96	Peak	
3	5978,538	10.50	35.08	42.25	47.62	50.95	74.00	-23.05	Peak	



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#### 7 **Photographs**

#### Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup







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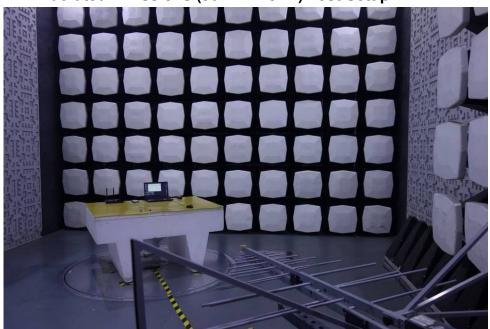
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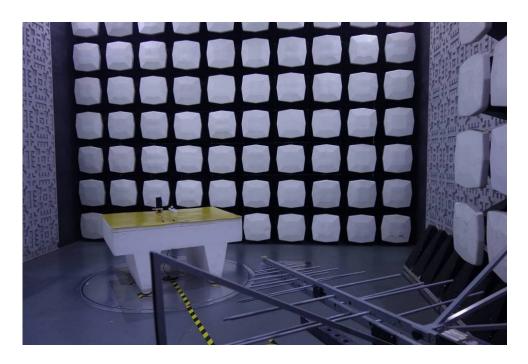


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#### 7.2 Radiated Emissions (30MHz-1GHz) Test Setup





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