TEST REPORT

Application No.:	SZEM1905014418CR(ZR/2019/50026)
Applicant:	TCL Communication Ltd.
Address of Applicant:	7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052
Manufacturer:	TCL Communication Ltd.
Address of Manufacturer:	7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052
Equipment Under Test (EUT):	
EUT Name:	HSUPA/HSDPA/UMTS quad band /GSM quad band mobile phone
Model No.:	4034T
Trade Mark:	alcatel
FCC ID:	2ACCJH106
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2019-05-24
Date of Test:	2019-05-30 to 2019-06-04
Date of Issue:	2019-06-10
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		2019-06-10		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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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.85V from internal battery or AC/DC adapter
Cable:	USB cable: 100cm shielded. Earphone cable: 145cm unshielded.

Adaptor	Model1	CBA0066AGAC5 5.0 V,550 mA, eup, PUAN
	Model2	CBA0066AGAC7 5.0 V,550 mA, eup, chengyang
	Model3	CBA3068AGAC5 5.0 V,550 mA, MOU, PUAN
Headset	Model1: CCB0050A11C1 JUWEI	
Usb cable	Model1: CDA3122005C2, SHENGHUA	
	Model2: CDA3122005C1, JUWEI	
Battery	Model1: CAB1500042C7, VEKEN	
	Model2: CAB1500077CA, TMB	

4.2 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

4.3 Measurement Uncertainty

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

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4.4 Test Location

All tests were performed at:

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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	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2019-09-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018-07-12	2019-07-11
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019-04-01	2020-03-31
Trilog-Broadband Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2019-04-12	2020-04-11

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	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

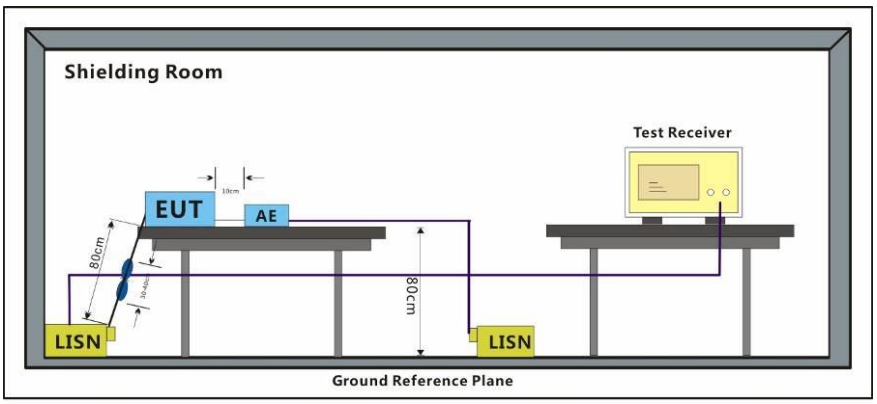
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case:	h: Telecom Idle + BT + WLAN + GPS Rx + playing MP4 (SD card) + adapter1+baterry1
	i: Telecom Idle + BT + WLAN + GPS Rx + camera (Front) + adapter2+baterry1
	j: Telecom Idle + BT + WLAN + GPS Rx + camera (Back)+ adapter3+baterry1
	k: GSM 850 + BT + WLAN + GPS Rx + adapter2 + battery2
	m: Transfer data between the EUT and the PC + cable1+battery1
	l: Transfer data between the EUT and the PC + cable2+battery1
The worst case for final test:	h: Telecom Idle + BT + WLAN + GPS Rx + playing MP4 (SD card) + adapter1+baterry1
	i: Telecom Idle + BT + WLAN + GPS Rx + camera (Front) + adapter2+baterry1
	j: Telecom Idle + BT + WLAN + GPS Rx + camera (Back)+ adapter3+baterry1
	k: GSM 850 + BT + WLAN + GPS Rx + adapter2+ battery2
	m: Transfer data between the EUT and the PC + cable1+battery1

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

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

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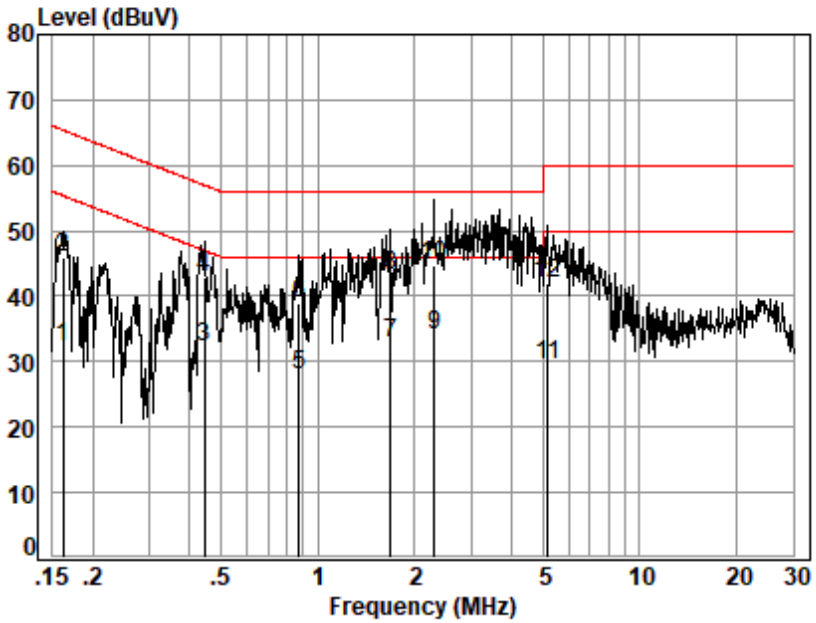
Mode:h; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 14418CR
Test mode: h

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1615	0.01	9.66	22.71	32.38	55.38	-23.00	Average
2	0.1615	0.01	9.66	36.20	45.87	65.38	-19.51	QP
3	0.4444	0.06	9.67	22.61	32.34	46.98	-14.64	Average
4	0.4444	0.06	9.67	33.22	42.95	56.98	-14.03	QP
5	0.8757	0.08	9.74	18.15	27.97	46.00	-18.03	Average
6	0.8757	0.08	9.74	29.12	38.94	56.00	-17.06	QP
7	1.6802	0.14	9.73	22.84	32.71	46.00	-13.29	Average
8	1.6802	0.14	9.73	33.26	43.13	56.00	-12.87	QP
9	2.2968	0.16	9.71	24.23	34.10	46.00	-11.90	Average
10	2.2968	0.16	9.71	34.76	44.63	56.00	-11.37	QP
11	5.1937	0.17	9.74	19.45	29.36	50.00	-20.64	Average
12	5.1937	0.17	9.74	32.20	42.11	60.00	-17.89	QP

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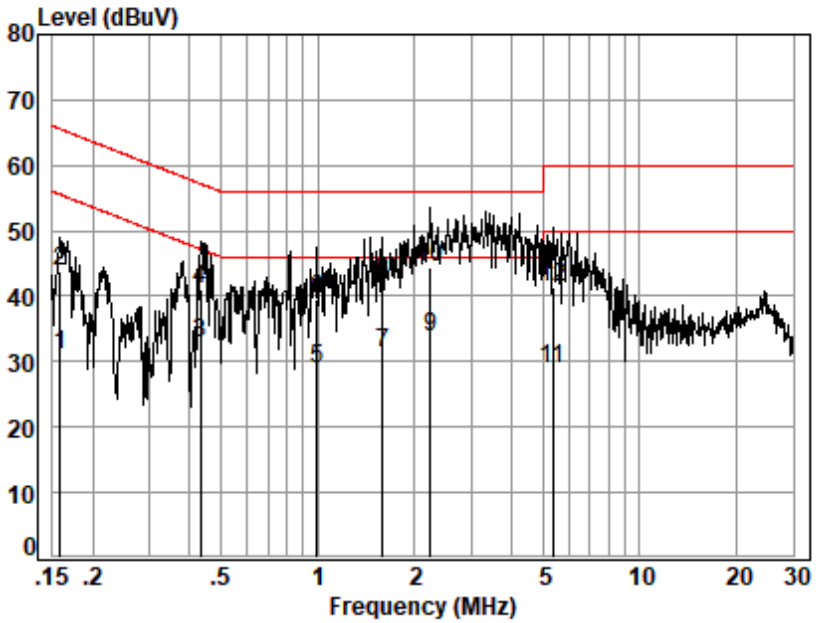
Mode:h; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 14418CR
Test mode: h

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1582	0.01	9.63	21.49	31.13	55.56	-24.43	Average
2	0.1582	0.01	9.63	34.11	43.75	65.56	-21.81	QP
3	0.4328	0.05	9.65	23.09	32.79	47.20	-14.41	Average
4	0.4328	0.05	9.65	31.48	41.18	57.20	-16.02	QP
5	0.9944	0.09	9.71	19.09	28.89	46.00	-17.11	Average
6	0.9944	0.09	9.71	29.79	39.59	56.00	-16.41	QP
7	1.5851	0.14	9.70	21.47	31.31	46.00	-14.69	Average
8	1.5851	0.14	9.70	32.37	42.21	56.00	-13.79	QP
9	2.2367	0.16	9.68	24.04	33.88	46.00	-12.12	Average
10	2.2367	0.16	9.68	34.61	44.45	56.00	-11.55	QP
11	5.3615	0.17	9.72	18.99	28.88	50.00	-21.12	Average
12	5.3615	0.17	9.72	31.36	41.25	60.00	-18.75	QP

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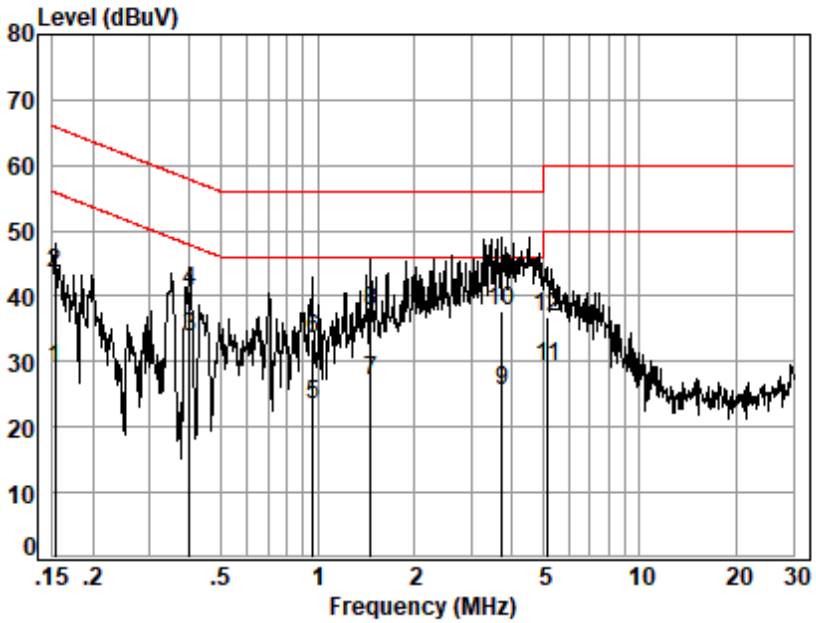
Mode:i; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 14418CR
Test mode: i

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1532	0.01	9.66	19.31	28.98	55.82	-26.84	Average
2	0.1532	0.01	9.66	33.96	43.63	65.82	-22.19	QP
3	0.3997	0.05	9.67	23.93	33.65	47.86	-14.21	Average
4	0.3997	0.05	9.67	31.13	40.85	57.86	-17.01	QP
5	0.9633	0.09	9.74	13.69	23.52	46.00	-22.48	Average
6	0.9633	0.09	9.74	23.59	33.42	56.00	-22.58	QP
7	1.4640	0.13	9.73	17.25	27.11	46.00	-18.89	Average
8	1.4640	0.13	9.73	27.92	37.78	56.00	-18.22	QP
9	3.7395	0.16	9.72	15.59	25.47	46.00	-20.53	Average
10	3.7395	0.16	9.72	27.81	37.69	56.00	-18.31	QP
11	5.1937	0.17	9.74	19.27	29.18	50.00	-20.82	Average
12	5.1937	0.17	9.74	27.01	36.92	60.00	-23.08	QP

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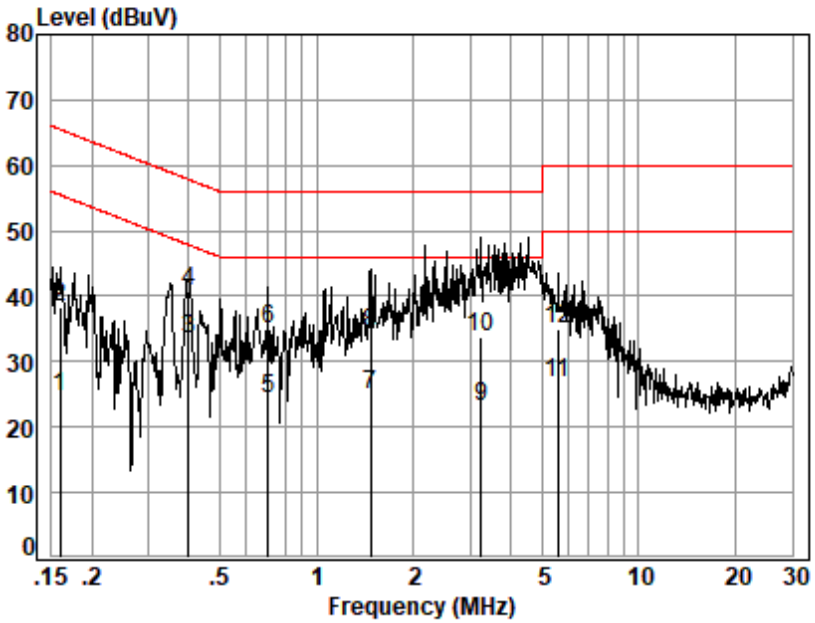
Mode:i; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 14418CR
Test mode: i

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1590	0.01	9.63	15.13	24.77	55.52	-30.75	Average
2	0.1590	0.01	9.63	28.73	38.37	65.52	-27.15	QP
3	0.3997	0.05	9.65	23.68	33.38	47.86	-14.48	Average
4	0.3997	0.05	9.65	31.00	40.70	57.86	-17.16	QP
5	0.7047	0.08	9.65	14.59	24.32	46.00	-21.68	Average
6	0.7047	0.08	9.65	25.32	35.05	56.00	-20.95	QP
7	1.4718	0.13	9.70	15.23	25.06	46.00	-20.94	Average
8	1.4718	0.13	9.70	24.63	34.46	56.00	-21.54	QP
9	3.2411	0.16	9.68	13.16	23.00	46.00	-23.00	Average
10	3.2411	0.16	9.68	23.89	33.73	56.00	-22.27	QP
11	5.6234	0.17	9.73	16.86	26.76	50.00	-23.24	Average
12	5.6234	0.17	9.73	25.09	34.99	60.00	-25.01	QP

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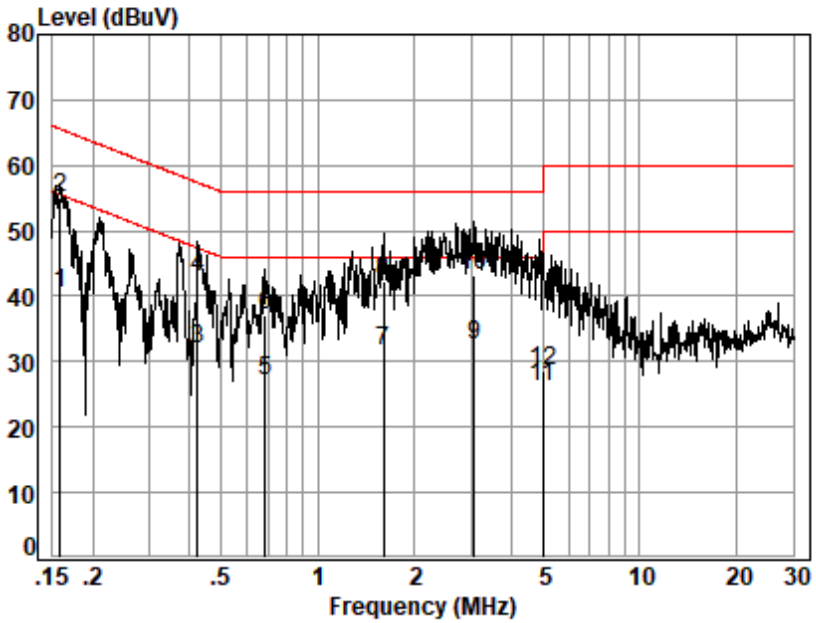
Mode:j; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 14418CR
Test mode: j

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1582	0.01	9.66	30.76	40.43	55.56	-15.13	Average
2	0.1582	0.01	9.66	45.41	55.08	65.56	-10.48	QP
3	0.4215	0.05	9.67	22.36	32.08	47.42	-15.34	Average
4	0.4215	0.05	9.67	33.22	42.94	57.42	-14.48	QP
5	0.6863	0.07	9.68	17.32	27.07	46.00	-18.93	Average
6	0.6863	0.07	9.68	27.34	37.09	56.00	-18.91	QP
7	1.6020	0.14	9.73	21.76	31.63	46.00	-14.37	Average
8	1.6020	0.14	9.73	32.34	42.21	56.00	-13.79	QP
9	3.0576	0.16	9.71	22.55	32.42	46.00	-13.58	Average
10	3.0576	0.16	9.71	33.46	43.33	56.00	-12.67	QP
11	5.0046	0.17	9.74	16.34	26.25	50.00	-23.75	Average
12	5.0046	0.17	9.74	18.79	28.70	60.00	-31.30	QP

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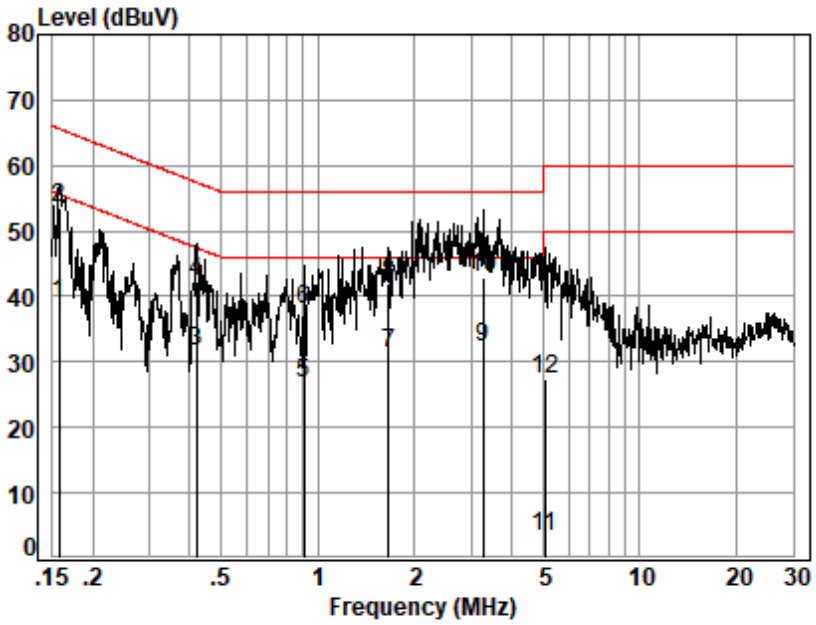
Mode:j; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 14418CR
Test mode: j

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.01	9.63	29.16	38.80	55.60	-16.80	Average
2	0.1573	0.01	9.63	43.88	53.52	65.60	-12.08	QP
3	0.4193	0.05	9.65	21.80	31.50	47.46	-15.96	Average
4	0.4193	0.05	9.65	32.58	42.28	57.46	-15.18	QP
5	0.9039	0.09	9.71	17.11	26.91	46.00	-19.09	Average
6	0.9039	0.09	9.71	28.26	38.06	56.00	-17.94	QP
7	1.6625	0.14	9.70	21.42	31.26	46.00	-14.74	Average
8	1.6625	0.14	9.70	32.17	42.01	56.00	-13.99	QP
9	3.2583	0.16	9.68	22.46	32.30	46.00	-13.70	Average
10	3.2583	0.16	9.68	33.09	42.93	56.00	-13.07	QP
11	5.0580	0.17	9.71	-6.62	3.26	50.00	-46.74	Average
12	5.0580	0.17	9.71	17.51	27.39	60.00	-32.61	QP

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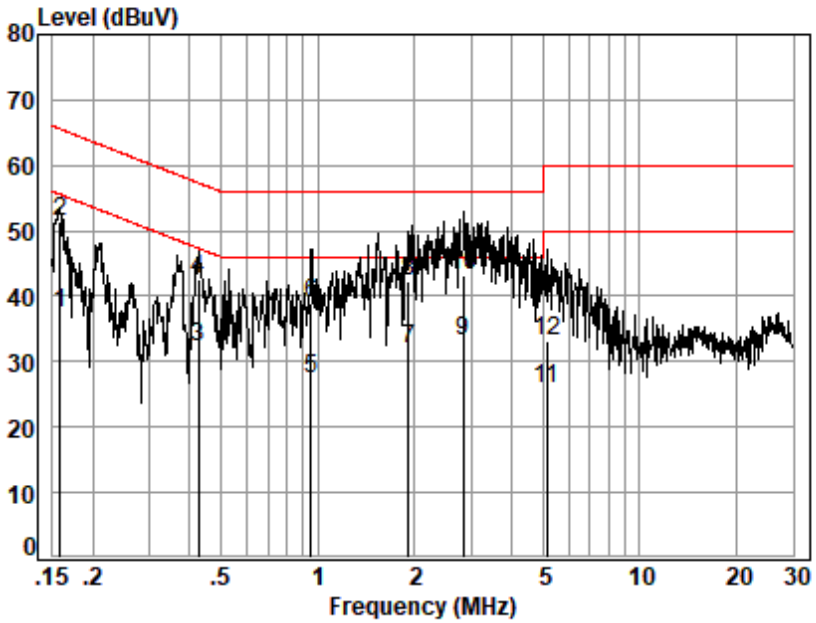
Mode:k; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 14418CR
Test mode: k

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1582	0.01	9.66	27.69	37.36	55.56	-18.20	Average
2	0.1582	0.01	9.66	41.80	51.47	65.56	-14.09	QP
3	0.4260	0.05	9.67	22.59	32.31	47.33	-15.02	Average
4	0.4260	0.05	9.67	32.93	42.65	57.33	-14.68	QP
5	0.9531	0.09	9.74	17.50	27.33	46.00	-18.67	Average
6	0.9531	0.09	9.74	29.18	39.01	56.00	-16.99	QP
7	1.9182	0.16	9.72	22.13	32.01	46.00	-13.99	Average
8	1.9182	0.16	9.72	32.39	42.27	56.00	-13.73	QP
9	2.8390	0.16	9.71	23.30	33.17	46.00	-12.83	Average
10	2.8390	0.16	9.71	33.36	43.23	56.00	-12.77	QP
11	5.1390	0.17	9.74	15.87	25.78	50.00	-24.22	Average
12	5.1390	0.17	9.74	23.25	33.16	60.00	-26.84	QP

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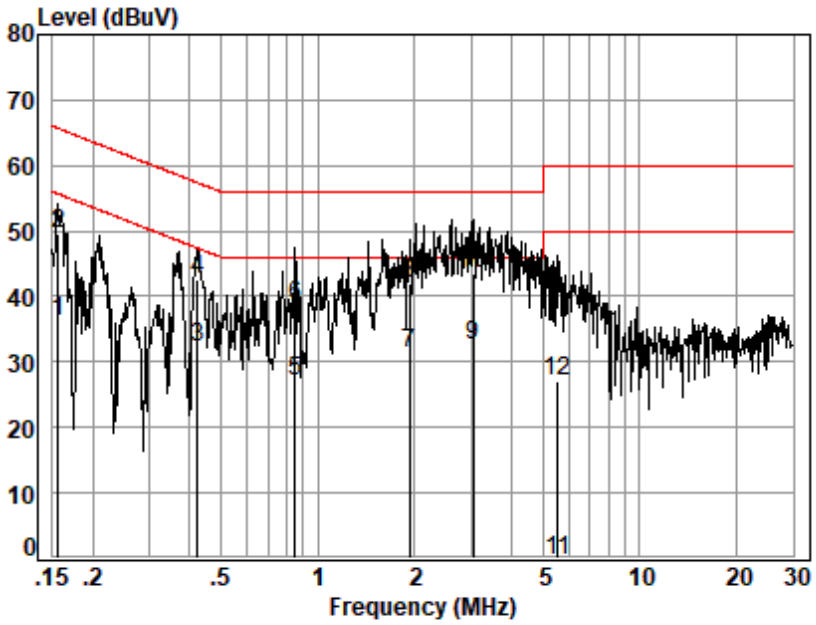
Mode:k; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 14418CR
Test mode: k

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.01	9.63	26.41	36.05	55.69	-19.64	Average
2	0.1557	0.01	9.63	40.09	49.73	65.69	-15.96	QP
3	0.4237	0.05	9.65	22.54	32.24	47.37	-15.13	Average
4	0.4237	0.05	9.65	32.99	42.69	57.37	-14.68	QP
5	0.8528	0.08	9.71	17.30	27.09	46.00	-18.91	Average
6	0.8528	0.08	9.71	28.88	38.67	56.00	-17.33	QP
7	1.9284	0.16	9.69	21.38	31.23	46.00	-14.77	Average
8	1.9284	0.16	9.69	32.15	42.00	56.00	-14.00	QP
9	3.0414	0.16	9.68	22.78	32.62	46.00	-13.38	Average
10	3.0414	0.16	9.68	33.53	43.37	56.00	-12.63	QP
11	5.5641	0.17	9.73	-10.33	-0.43	50.00	-50.43	Average
12	5.5641	0.17	9.73	17.06	26.96	60.00	-33.04	QP

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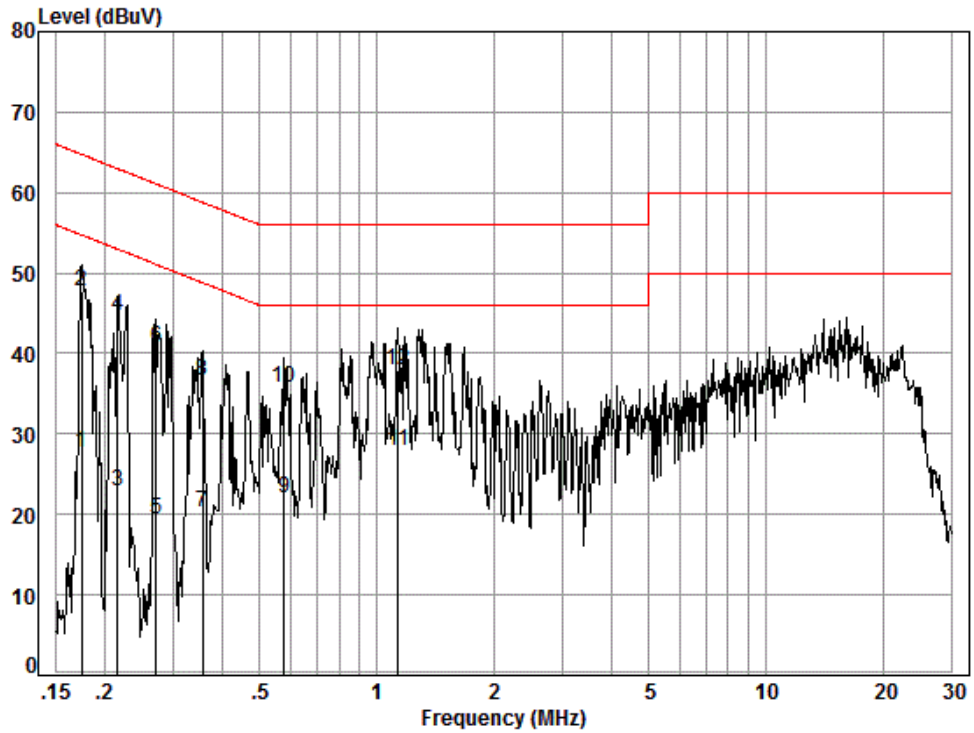
Mode:m; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 14418CR
Test mode: m

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.03	9.52	18.19	27.74	54.77	-27.03	Average
2	0.17	0.03	9.52	38.13	47.68	64.77	-17.09	QP
3	0.22	0.03	9.50	13.36	22.89	52.96	-30.07	Average
4	0.22	0.03	9.50	35.07	44.60	62.96	-18.36	QP
5	0.27	0.03	9.51	9.86	19.40	51.07	-31.67	Average
6	0.27	0.03	9.51	31.13	40.67	61.07	-20.40	QP
7	0.36	0.03	9.50	10.73	20.26	48.78	-28.52	Average
8	0.36	0.03	9.50	27.01	36.54	58.78	-22.24	QP
9	0.58	0.05	9.52	12.55	22.12	46.00	-23.88	Average
10	0.58	0.05	9.52	26.25	35.82	56.00	-20.18	QP
11	1.14	0.11	9.51	18.35	27.97	46.00	-18.03	Average
12	1.14	0.11	9.51	28.39	38.01	56.00	-17.99	QP

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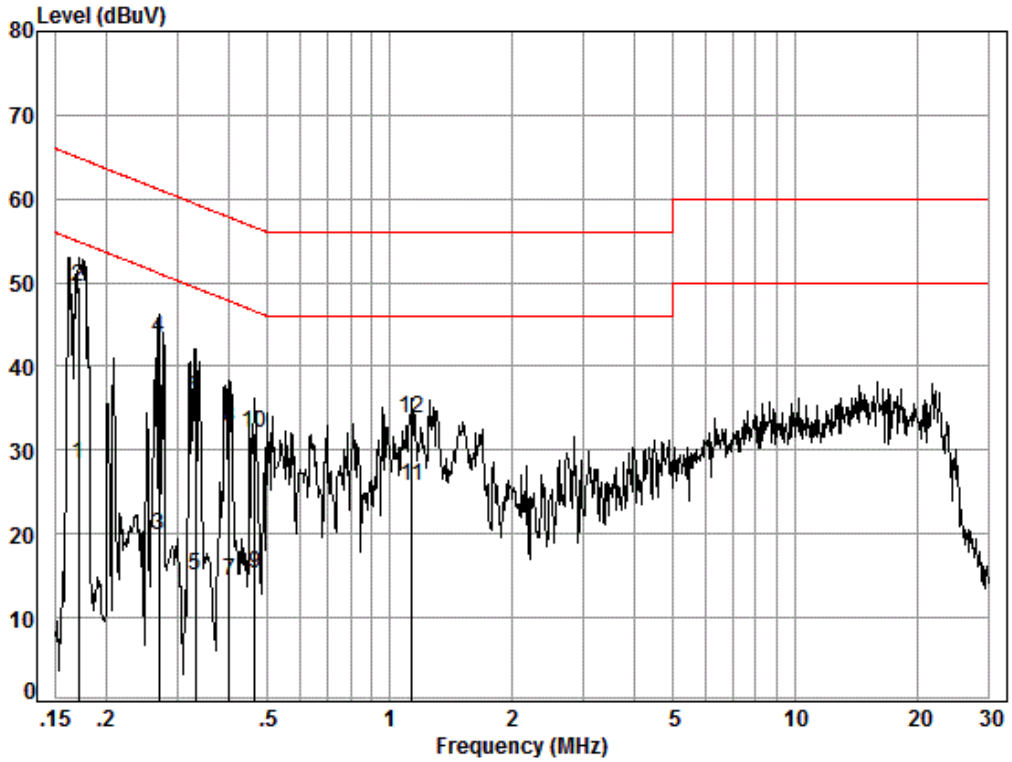
Mode:m; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 14418CR
Test mode: m

	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	9.59	18.70	28.31	54.90	-26.59	Average
2	0.17	0.02	9.59	39.81	49.42	64.90	-15.48	QP
3	0.27	0.03	9.58	10.22	19.83	51.12	-31.29	Average
4	0.27	0.03	9.58	33.66	43.27	61.12	-17.85	QP
5	0.33	0.03	9.58	5.49	15.10	49.40	-34.30	Average
6	0.33	0.03	9.58	26.68	36.29	59.40	-23.11	QP
7	0.40	0.04	9.59	4.86	14.49	47.81	-33.32	Average
8	0.40	0.04	9.59	23.06	32.69	57.81	-25.12	QP
9	0.47	0.04	9.60	5.72	15.36	46.58	-31.22	Average
10	0.47	0.04	9.60	22.43	32.07	56.58	-24.51	QP
11	1.14	0.11	9.64	15.87	25.62	46.00	-20.38	Average
12	1.14	0.11	9.64	24.13	33.88	56.00	-22.12	QP

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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	30MHz to 1GHz
Measurement Distance:	10m
Limit:	
30MHz -88MHz	29.5(dBμV/m) quasi-peak
88MHz-216MHz	33.1(dBμV/m) quasi-peak
216MHz-960MHz	35.6(dBμV/m) quasi-peak
960MHz-1000MHz	43.5(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

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6.2.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case:

h: Telecom Idle + BT + WLAN + GPS Rx + playing MP4 (SD card) + adapter1+baterry1

i: Telecom Idle + BT + WLAN + GPS Rx + camera (Front) + adapter2+baterry1

j: Telecom Idle + BT + WLAN + GPS Rx + camera (Back)+ adapter3+baterry1

k: GSM 850 + BT + WLAN + GPS Rx + adapter2 + battery2

l: Transfer data between the EUT and the PC + cable1+battery 1

m: Transfer data between the EUT and the PC + cable2+battery1

The worst case for final test:

h: Telecom Idle + BT + WLAN + GPS Rx + playing MP4 (SD card) + adapter1+baterry1

i: Telecom Idle + BT + WLAN + GPS Rx + camera (Front) + adapter2+baterry1

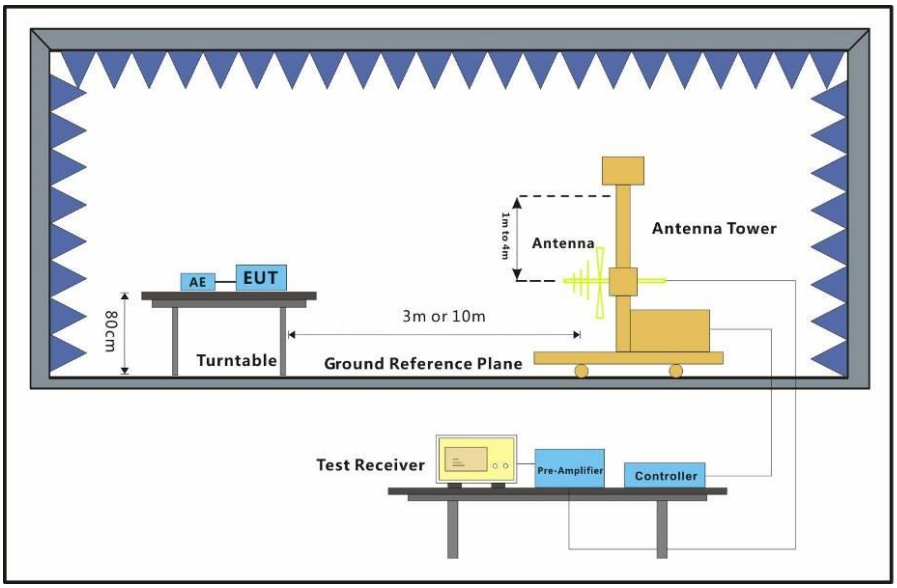
j: Telecom Idle + BT + WLAN + GPS Rx + camera (Back)+ adapter3+baterry1

k: GSM 850 + BT + WLAN + GPS Rx + adapter2 + battery2

l: Transfer data between the EUT and the PC + cable1+battery1

m: Transfer data between the EUT and the PC + cable2+battery1

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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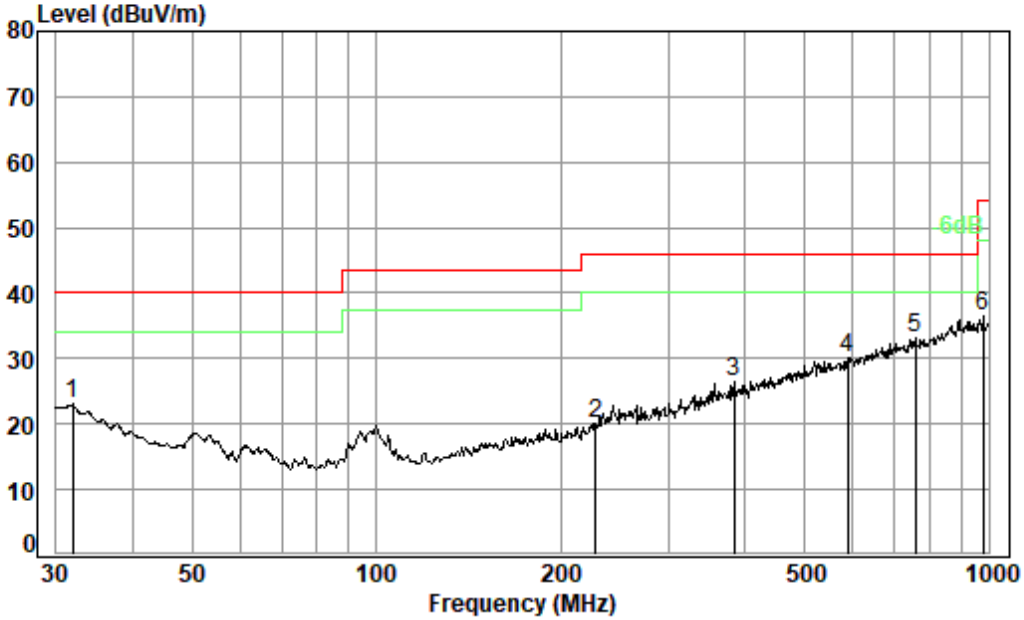

Condition: 3m HORIZONTAL
Job No. : 14418CR
Test mode: h

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.95	0.60	21.40	27.72	28.70	22.98	40.00	-17.02
2	228.49	1.56	17.90	27.08	27.82	20.20	46.00	-25.80
3	383.93	2.16	22.00	27.35	29.77	26.58	46.00	-19.42
4	588.91	2.69	26.40	28.14	29.22	30.17	46.00	-15.83
5 pp	758.04	3.08	28.26	27.80	29.61	33.15	46.00	-12.85
6	979.18	3.68	30.20	26.99	29.63	36.52	54.00	-17.48

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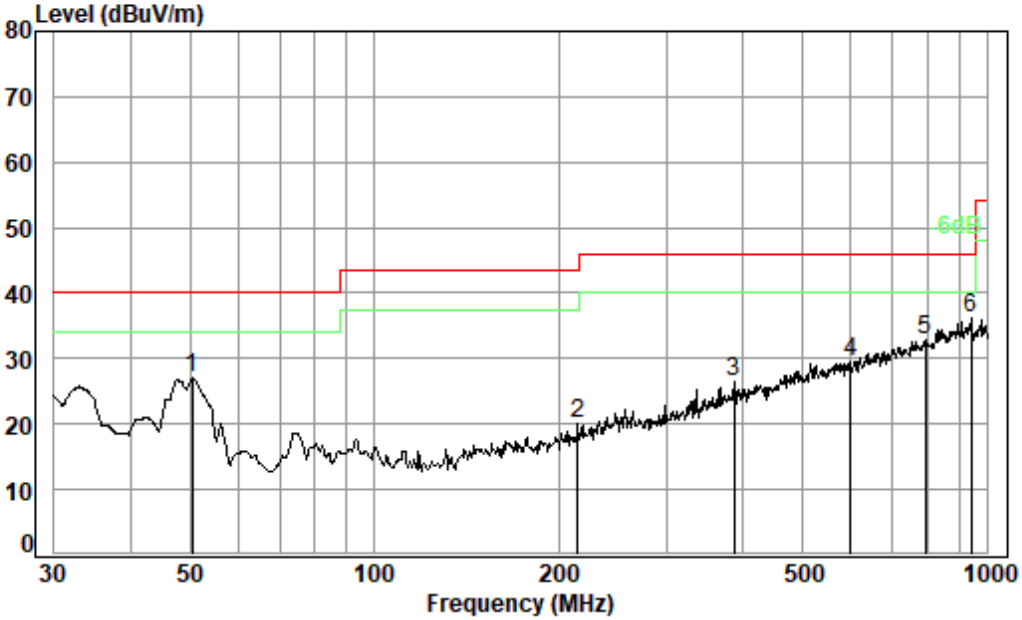

Condition: 3m VERTICAL
Job No. : 14418CR
Test mode: h

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	50.41	0.80	14.16	27.69	39.88	27.15	40.00	-12.85
2	214.51	1.49	17.01	27.12	28.80	20.18	43.50	-23.32
3	386.63	2.16	22.07	27.36	29.57	26.44	46.00	-19.56
4	599.32	2.70	26.59	28.17	28.51	29.63	46.00	-16.37
5	793.40	3.18	28.46	27.73	28.91	32.82	46.00	-13.18
6 pp	942.13	3.64	30.02	27.13	29.66	36.19	46.00	-9.81

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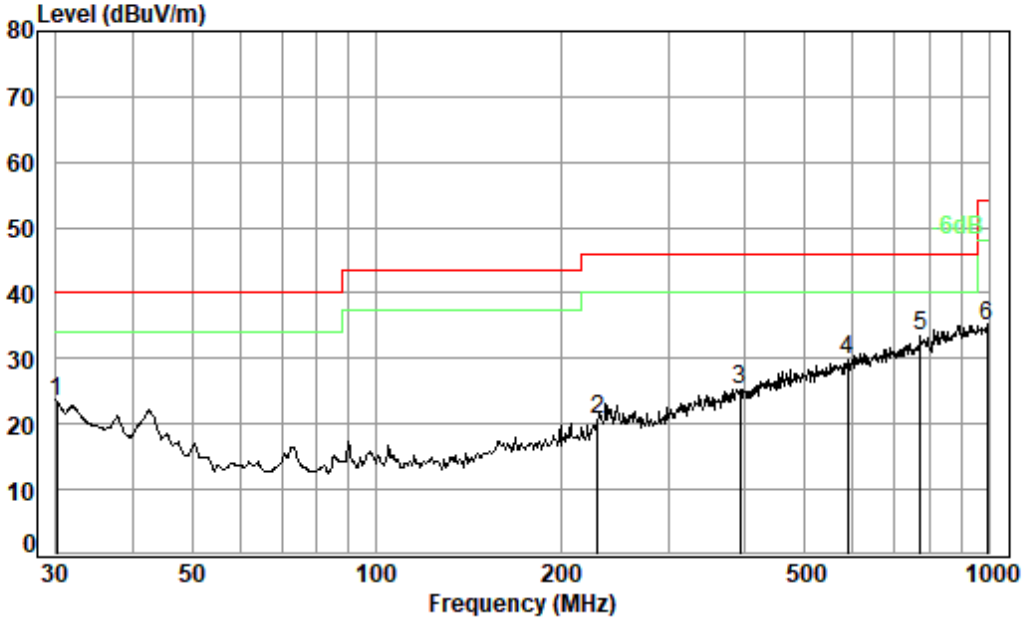

Condition: 3m HORIZONTAL
Job No. : 14418CR
Test mode: i

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.73	28.24	23.55	40.00	-16.45
2	230.10	1.57	18.03	27.07	28.08	20.61	46.00	-25.39
3	392.10	2.18	22.21	27.38	28.36	25.37	46.00	-20.63
4	588.91	2.69	26.40	28.14	28.93	29.88	46.00	-16.12
5 pp	774.16	3.13	28.35	27.77	29.84	33.55	46.00	-12.45
6	993.01	3.69	30.27	26.94	28.09	35.11	54.00	-18.89

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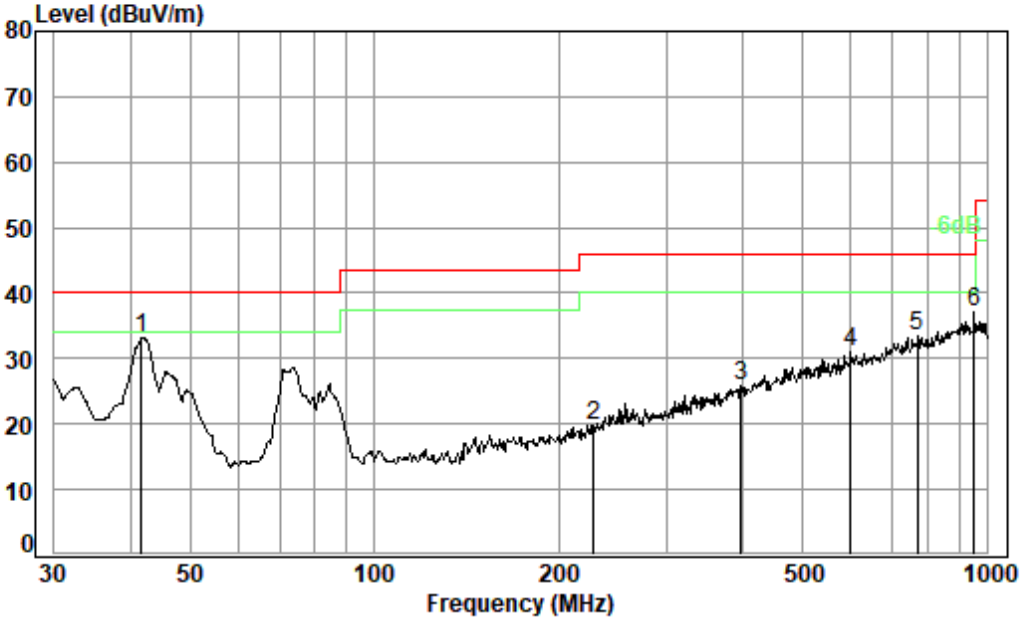

Condition: 3m VERTICAL
Job No. : 14418CR
Test mode: i

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	41.71	0.64	16.88	27.70	43.22	33.04	40.00	-6.96
2	228.49	1.56	17.90	27.08	27.49	19.87	46.00	-26.13
3	396.24	2.19	22.31	27.40	28.61	25.71	46.00	-20.29
4	599.32	2.70	26.59	28.17	29.88	31.00	46.00	-15.00
5	771.45	3.12	28.34	27.78	29.65	33.33	46.00	-12.67
6	952.09	3.65	30.07	27.09	30.38	37.01	46.00	-8.99

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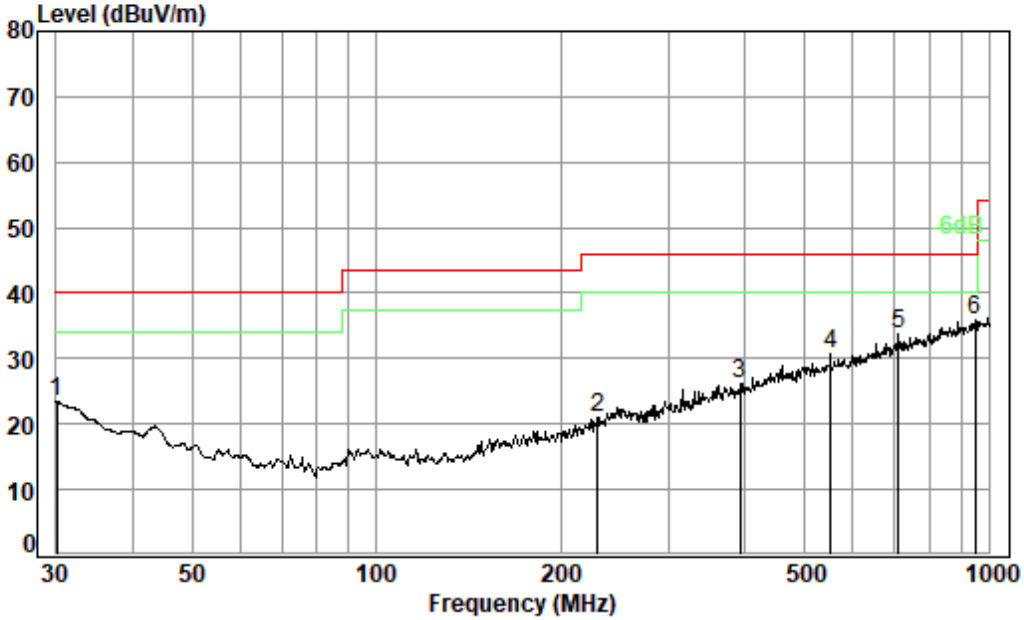
Mode:j; Polarization:Horizontal



Condition: 3m HORIZONTAL
Job No. : 14418CR
Test mode: j

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.73	28.15	23.46	40.00	-16.54
2	230.10	1.57	18.03	27.07	28.31	20.84	46.00	-25.16
3	392.10	2.18	22.21	27.38	29.17	26.18	46.00	-19.82
4	550.95	2.65	25.66	28.01	30.32	30.62	46.00	-15.38
5	711.67	2.94	27.97	27.90	30.63	33.64	46.00	-12.36
6 pp	948.76	3.65	30.05	27.10	29.31	35.91	46.00	-10.09

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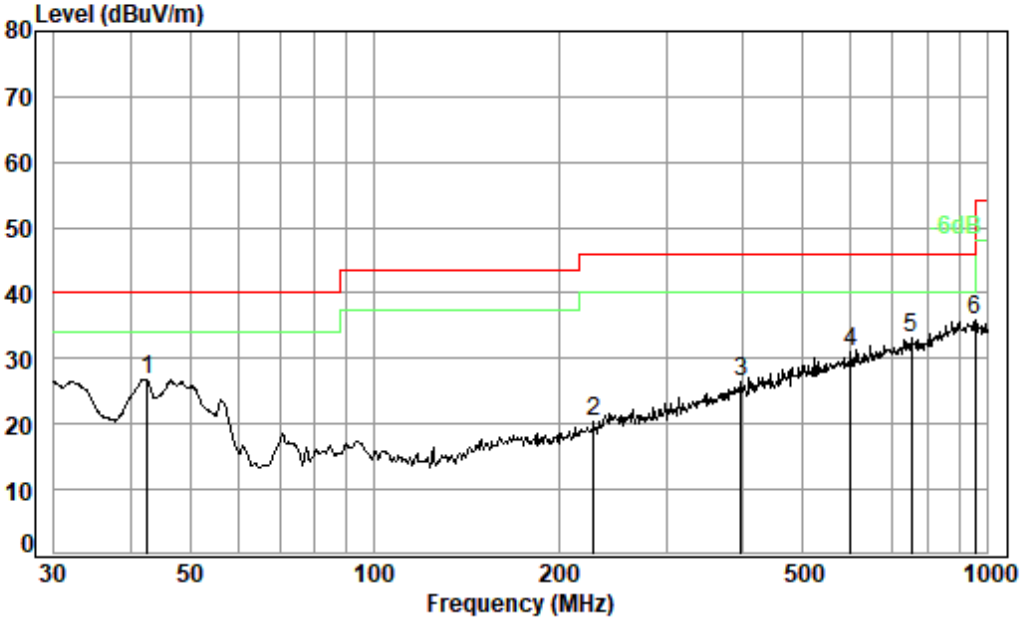
Mode:j; Polarization:Vertical



Condition: 3m VERTICAL
Job No. : 14418CR
Test mode: j

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	42.60	0.66	16.57	27.70	37.34	26.87	40.00	-13.13
2	227.69	1.56	17.83	27.08	28.16	20.47	46.00	-25.53
3	396.24	2.19	22.31	27.40	29.31	26.41	46.00	-19.59
4	599.32	2.70	26.59	28.17	29.87	30.99	46.00	-15.01
5	752.74	3.07	28.23	27.82	29.75	33.23	46.00	-12.77
6 pp	955.44	3.66	30.08	27.08	29.11	35.77	46.00	-10.23

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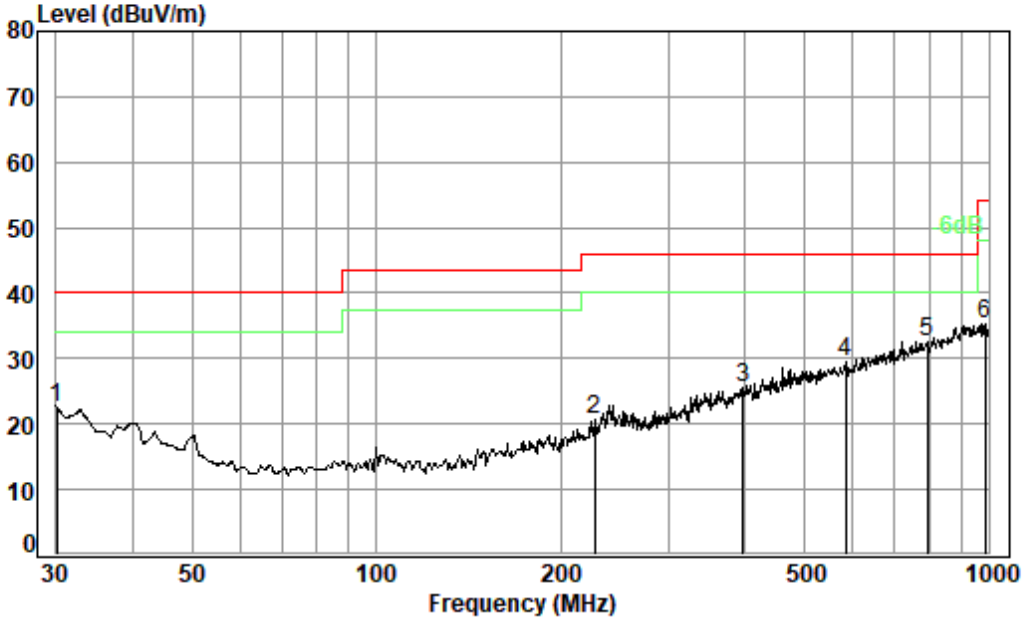
Mode:k; Polarization:Horizontal



Condition: 3m HORIZONTAL
Job No. : 14418CR
Test mode: k

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.73	27.35	22.66	40.00	-17.34
2	226.89	1.56	17.77	27.08	28.51	20.76	46.00	-25.24
3	397.63	2.19	22.34	27.41	28.50	25.62	46.00	-20.38
4	582.74	2.68	26.28	28.12	28.56	29.40	46.00	-16.60
5 pp	793.40	3.18	28.46	27.73	28.69	32.60	46.00	-13.40
6	986.07	3.69	30.23	26.96	28.42	35.38	54.00	-18.62

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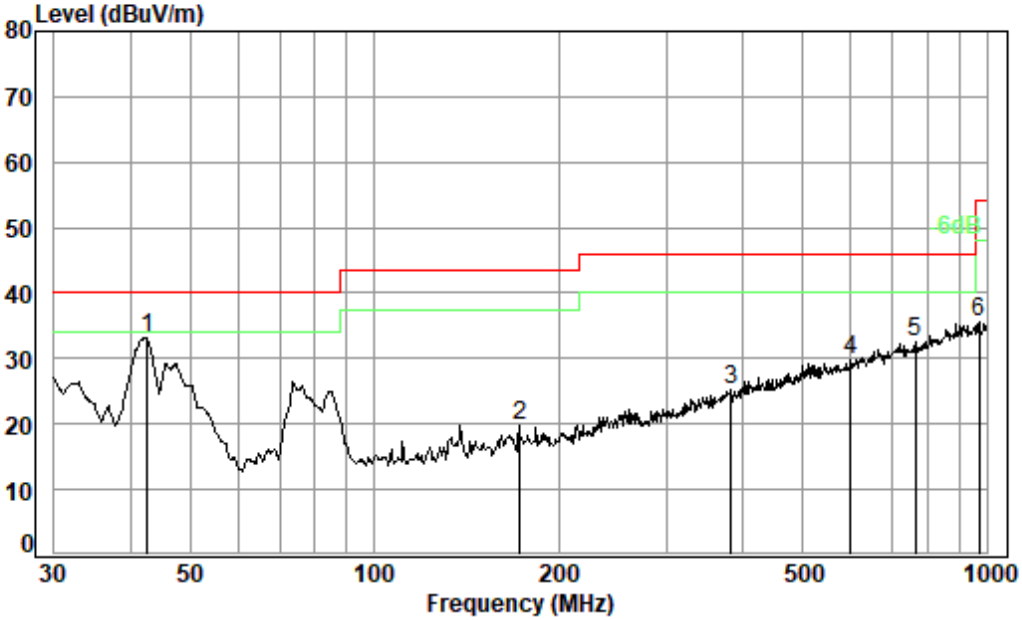

Condition: 3m VERTICAL
Job No. : 14418CR
Test mode: k

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	42.60	0.66	16.57	27.70	43.63	33.16	40.00	-6.84
2	172.60	1.36	15.76	27.27	30.02	19.87	43.50	-23.63
3	382.59	2.15	21.97	27.34	28.55	25.33	46.00	-20.67
4	599.32	2.70	26.59	28.17	28.62	29.74	46.00	-16.26
5	763.38	3.10	28.29	27.79	28.95	32.55	46.00	-13.45
6	972.34	3.67	30.17	27.01	28.81	35.64	54.00	-18.36

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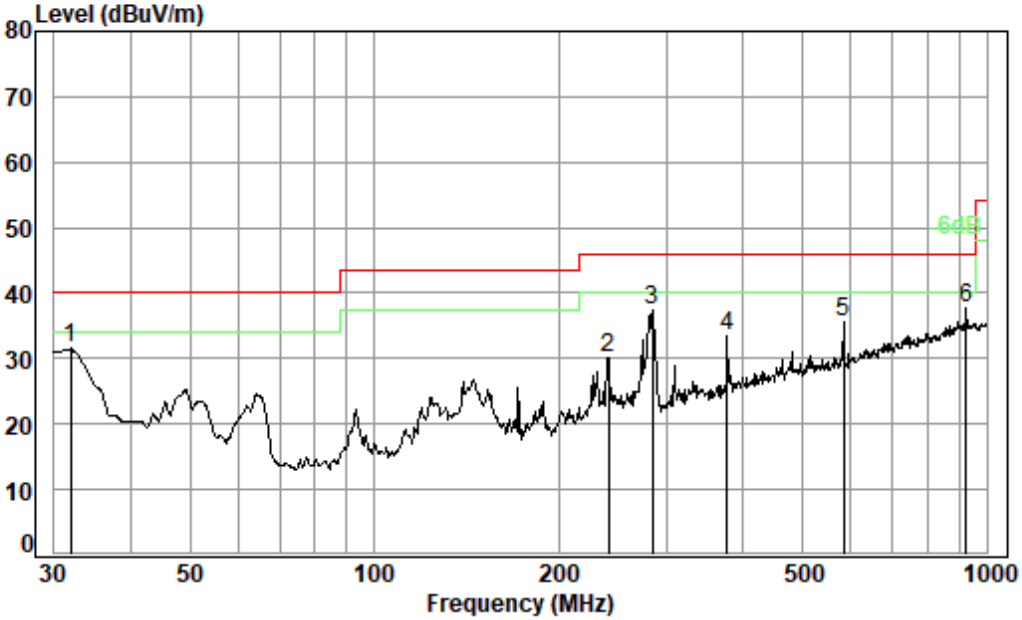

Condition: 3m HORIZONTAL
Job No. : 14418CR
Test mode: 1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.95	0.60	21.40	27.72	37.24	31.52	40.00	-8.48
2	240.83	1.63	18.81	27.04	36.82	30.22	46.00	-15.78
3	283.98	1.83	18.96	26.93	43.48	37.34	46.00	-8.66
4	377.26	2.14	21.83	27.31	36.86	33.52	46.00	-12.48
5	582.74	2.68	26.28	28.12	34.63	35.47	46.00	-10.53
6 pp	925.76	3.63	29.93	27.19	31.31	37.68	46.00	-8.32

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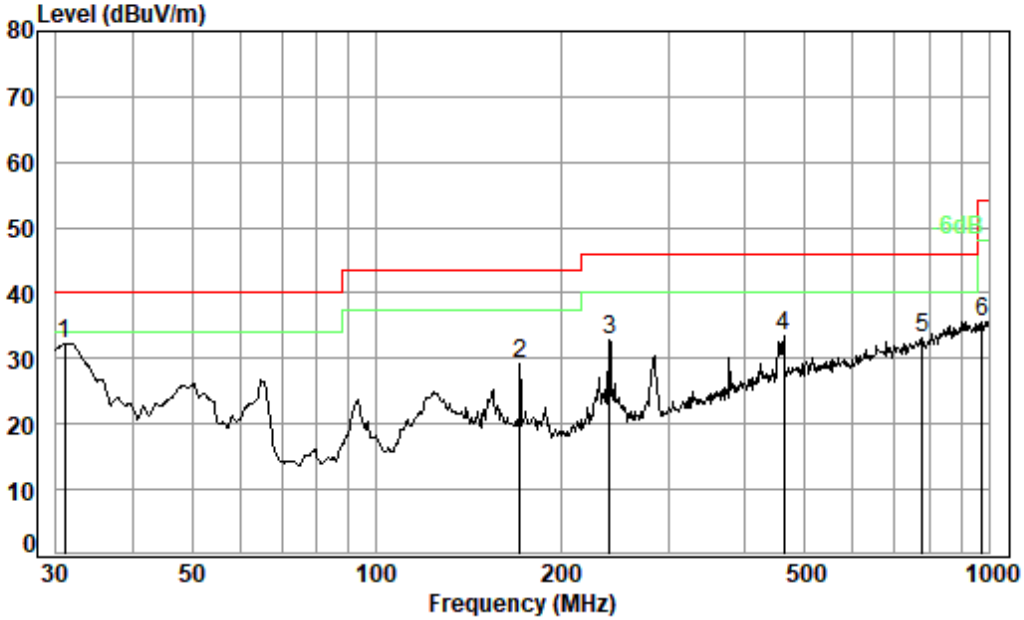

Condition: 3m VERTICAL
Job No. : 14418CR
Test mode: 1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	30.96	0.60	21.95	27.73	37.57	32.39	40.00	-7.61
2	171.39	1.36	15.73	27.27	39.43	29.25	43.50	-14.25
3	240.00	1.62	18.80	27.04	39.55	32.93	46.00	-13.07
4	462.35	2.46	23.83	27.69	34.95	33.55	46.00	-12.45
5	779.61	3.14	28.38	27.76	29.26	33.02	46.00	-12.98
6	975.75	3.68	30.18	27.00	28.88	35.74	54.00	-18.26

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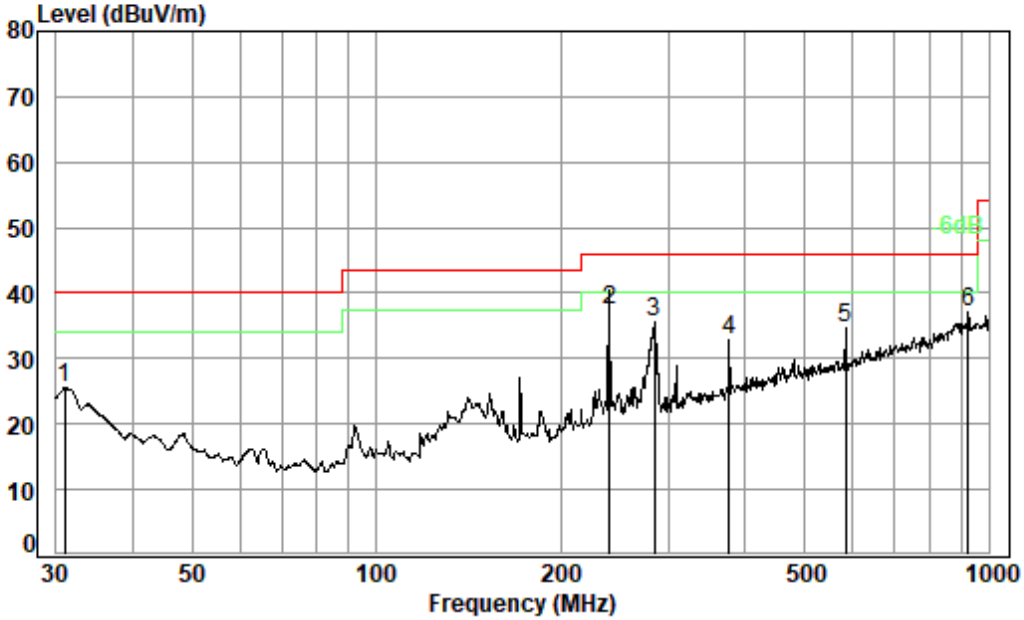

Condition: 3m HORIZONTAL
Job No. : 14418CR
Test mode: m

	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	30.82	25.64	40.00	-14.36
2 pp	240.00	1.62	18.80	27.04	43.98	37.36	46.00	-8.64
3	283.98	1.83	18.96	26.93	41.79	35.65	46.00	-10.35
4	377.26	2.14	21.83	27.31	36.13	32.79	46.00	-13.21
5	582.74	2.68	26.28	28.12	33.79	34.63	46.00	-11.37
6	925.76	3.63	29.93	27.19	30.65	37.02	46.00	-8.98

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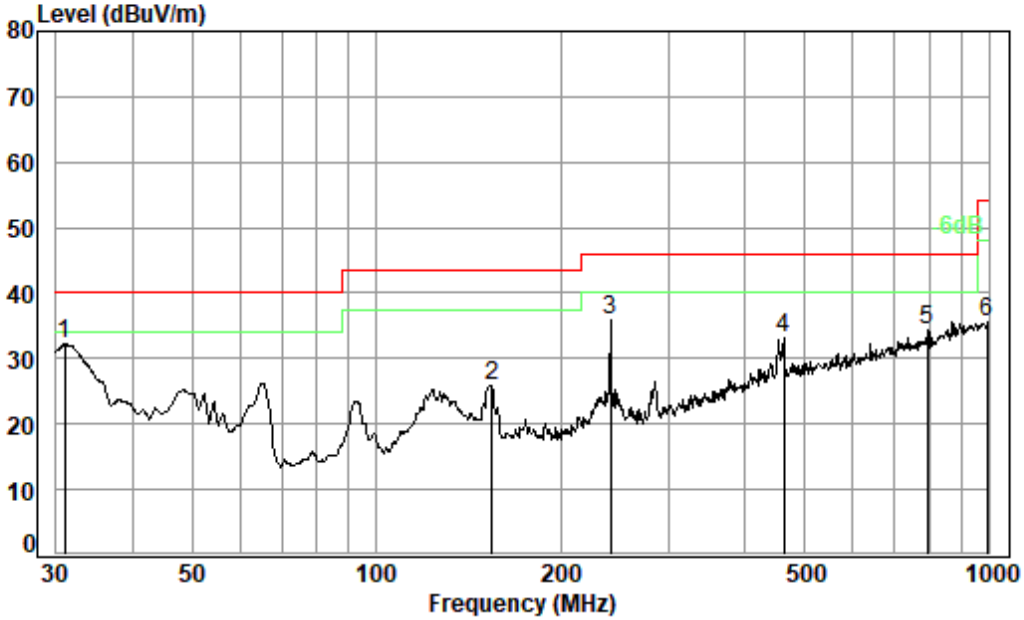

Condition: 3m VERTICAL
Job No. : 14418CR
Test mode: m

	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	30.96	0.60	21.95	27.73	37.42	32.24	40.00	-7.76
2	154.28	1.33	15.01	27.34	37.00	26.00	43.50	-17.50
3	240.83	1.63	18.81	27.04	42.36	35.76	46.00	-10.24
4	462.35	2.46	23.83	27.69	34.67	33.27	46.00	-12.73
5	793.40	3.18	28.46	27.73	30.38	34.29	46.00	-11.71
6	993.01	3.69	30.27	26.94	28.57	35.59	54.00	-18.41

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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: 21.3 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case:

h: Telecom Idle + BT + WLAN + GPS Rx + playing MP4 (SD card) + adapter1+baterry1

i: Telecom Idle + BT + WLAN + GPS Rx + camera (Front) + adapter2+baterry1

j: Telecom Idle + BT + WLAN + GPS Rx + camera (Back)+ adapter3+baterry1

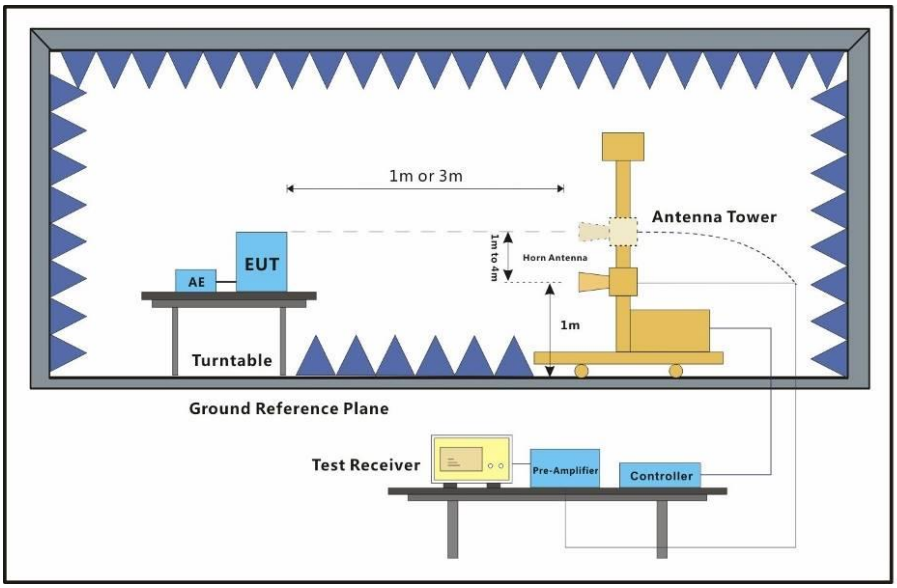
k: GSM 850 + BT + WLAN + GPS Rx + adapter2 + battery2

l: Transfer data between the EUT and the PC + cable1+battery1

m: Transfer data between the EUT and the PC + cable2+battery1

The worst case for final test: l: Transfer data between the EUT and the PC + cable1+battery1

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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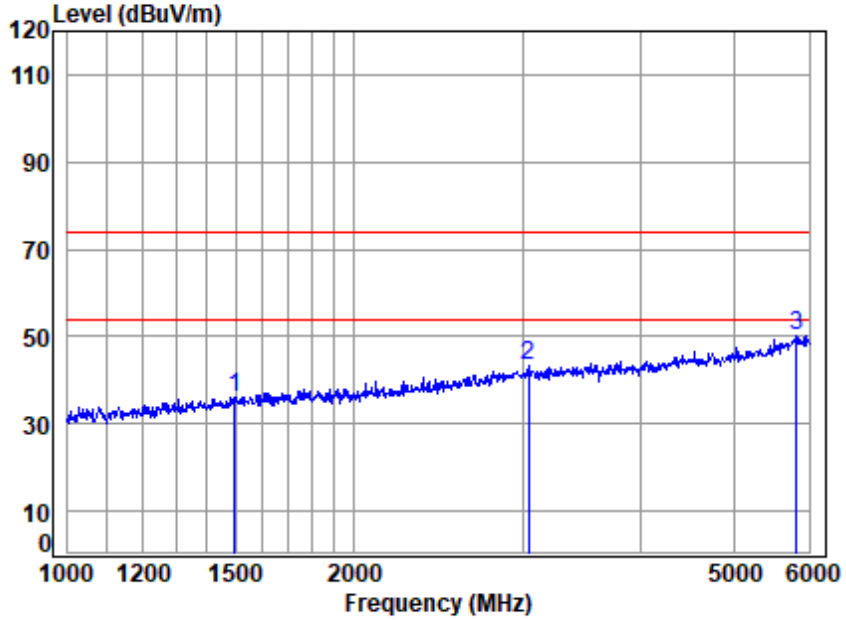
Mode:I; Polarization:Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 14418CR
Mode : 1

	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	1496.525	5.47	25.79	40.70	45.61	36.17	74.00	-37.83	Peak
2	3047.966	6.03	30.98	41.47	47.86	43.40	74.00	-30.60	Peak
3	5819.996	9.97	34.92	42.99	48.19	50.09	74.00	-23.91	Peak

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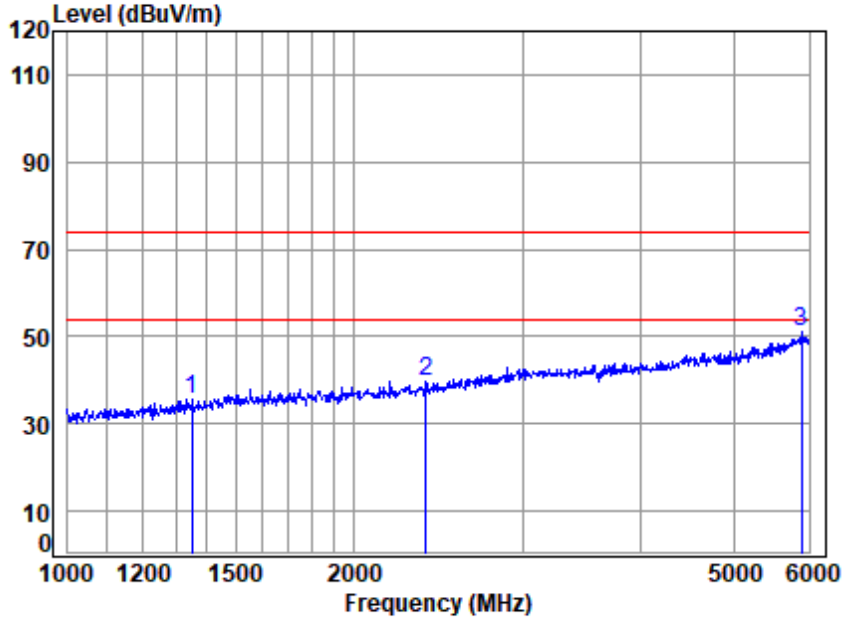
Mode:I; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 14418CR
Mode : 1

	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	1348.812	4.97	25.22	40.60	46.14	35.73	74.00	-38.27	Peak
2	2376.003	5.46	28.49	41.17	46.72	39.50	74.00	-34.50	Peak
3	5893.452	10.22	35.00	42.93	48.72	51.01	74.00	-22.99	Peak

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Remark:

1) Scan from 1GHz to 13GHz,The disturbance above 6GHz was very low and all noise floor. The above radiated emissions were the highest point could be found when testing, so only the above radiated emissions had been displayed.

7 Photographs

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

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

7.3 EUT Constructional Details (EUT Photos)

Refer Photographs of EUT Constructional Details

- End of the Report -

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