

TEST REPORT

Application No.: SZEM1904012626CR (HR/2019/40008)
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: Mobile Phone
Model No.: YAL-L21
FCC ID: QISYAL-L21
Trade mark: Honor
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2019-04-10
Date of Test: 2019-04-16 to 2019-04-22
Date of Issue: 2019-04-24

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager





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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-04-24		Original

Authorized for issue by:			
			
		Leo Lai /Project Engineer	
			
		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 3.82V from internal rechargeable battery or from AC/DC adapter Model: HW-050450E01, HW-050450A01, HW-050450E00, HW-050450A00, HW-050450B00, HW-050450U00
Cable:	USB cable: 100cm shielded Earphone cable: 115cm unshielded

Model	Trademark/Manufacture	Difference description
HW-050450E01 HW-050450A01	HuaweiTechnologies Co., Ltd.	They have the same design except the plug type.E means Europe plug. A means Australia plug
HW-050450E00 HW-050450A00 HW-050450B00 HW-050450U00	HuaweiTechnologies Co., Ltd. (Manufacturer: Salcomp)	They have the same design except the plug type.E means Europe plug. A means Australia plug. B means British plug. U means USA plug
HW-050450E00 HW-050450A00 HW-050450B00 HW-050450U00	HuaweiTechnologies Co., Ltd. (Manufacturer: HUNTKEY)	They have the same design except the plug type.E means Europe plug. A means Australia plug. B means British plug. U means USA plug
HW-050450E00 HW-050450A00 HW-050450B00 HW-050450U00	HuaweiTechnologies Co., Ltd.	They have the same design except the plug type.E means Europe plug. A means Australia plug. B means British plug. U means USA plug

Adapter no.	Model no.	SN	Manufacturer
1	HW-050450E01	CA37YAJBX06030	Huawei Technologies Co., Ltd.
2	HW-050450U00	K82822K1F01438	Salcomp (Shenzhen) Co., Ltd
3	HW-050450U00	H828KAJAR32972	SHENZHEN HUNTKEY ELECTRIC CO., LTD
4	HW-050450U00	C828YAJCT03394	Huawei Technologies Co., Ltd.

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

USB cable no.	Model no.	Manufacturer
1	330-50465	HUIZHOU DEHONG TECHNOLOGY CO., LTD.
2	L99UC117-CS-H	LUXSHARE Precision Industry Co., Ltd.
3	CUDU01B-HC350-EH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED
4	WA0009	NingBo Broad Telecommunication Co.,Ltd.



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Battery no.	Model no.	Manufacturer
1	Battery Model: HB386589ECW	Huawei Technologies Co., Ltd.(Huizhou Desay Battcry Co., Ltd.)
2	Rated capacity:3650mAh	Huawei Technologies Co., Ltd.(SCUD (FUJIAN) Electronics Co., Ltd.)

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.45dB (9kHz to 150kHz)
		± 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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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

4.5 Test Facility

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

- **CNAS (No. CNAS L2929)**

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

- **A2LA (Certificate No. 3816.01)**

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

- **VCCI**

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

- **FCC –Designation Number: CN1178**

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

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

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

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	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
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	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	2018-07-12	2019-07-11
EXA Spectrum Analyzer	Agilent Technologies 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: 18.7 °C Humidity: 55 % RH Atmospheric Pressure: 1015 mbar

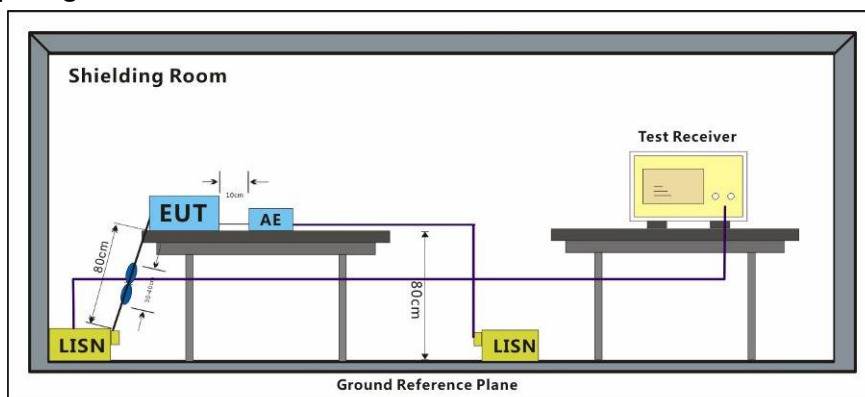
Pretest these modes to find the worst case:

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

The worst case for final test:

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

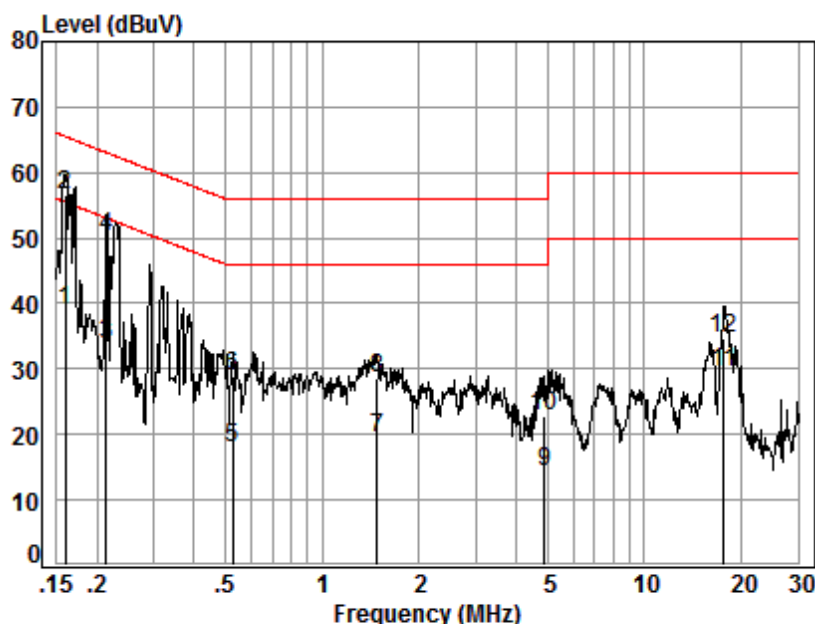
6.1.2 Test Setup Diagram



6.1.3 Measurement Data

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

Mode:h; Line:Live Line



Site : Shielding Room

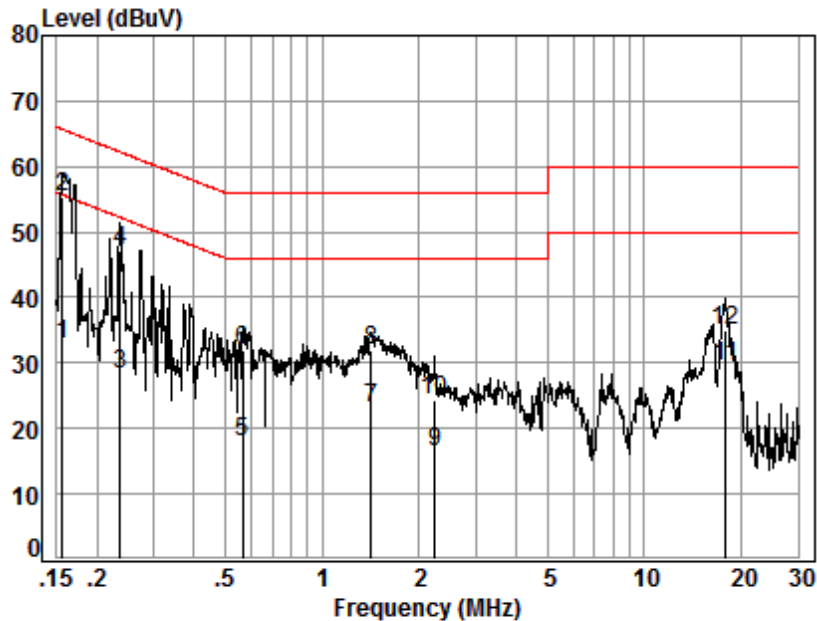
Condition: Line

Job No. : 12626CR

Test mode: h

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	29.35	39.02	55.52	-16.50	Average
2	0.16	0.01	9.66	46.85	56.52	65.52	-9.00	QP
3	0.21	0.02	9.66	24.19	33.87	53.05	-19.18	Average
4	0.21	0.02	9.66	40.51	50.19	63.05	-12.86	QP
5	0.53	0.06	9.67	8.08	17.81	46.00	-28.19	Average
6	0.53	0.06	9.67	19.22	28.95	56.00	-27.05	QP
7	1.48	0.13	9.73	9.66	19.52	46.00	-26.48	Average
8	1.48	0.13	9.73	18.81	28.67	56.00	-27.33	QP
9	4.90	0.17	9.74	4.49	14.40	46.00	-31.60	Average
10	4.90	0.17	9.74	12.97	22.88	56.00	-33.12	QP
11	17.66	0.23	10.19	19.18	29.60	50.00	-20.40	Average
12	17.66	0.23	10.19	24.38	34.80	60.00	-25.20	QP

Mode:h; Line:Neutral Line

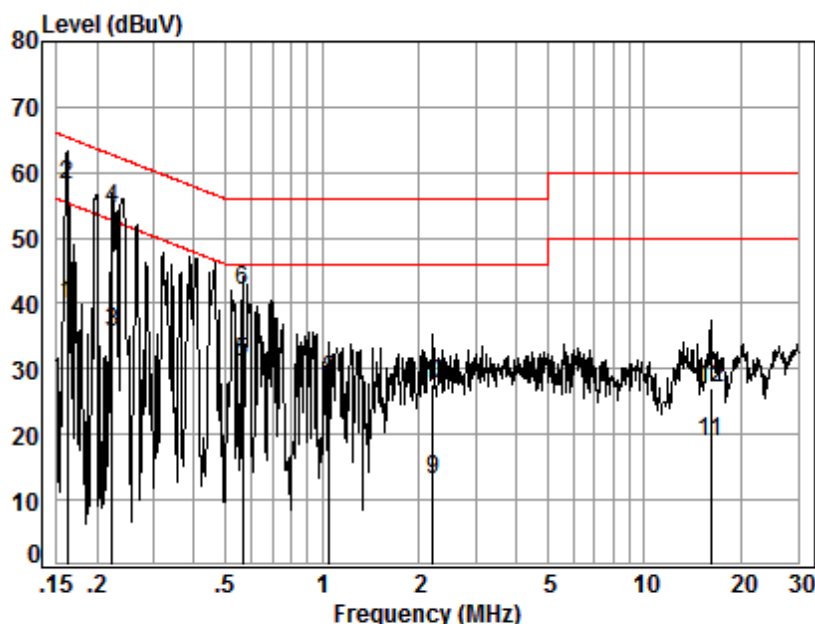


Site : Shielding Room
Condition: Neutral
Job No. : 12626CR
Test mode: h

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.63	23.25	32.89	55.65	-22.76	Average
2	0.16	0.01	9.63	45.78	55.42	65.65	-10.23	QP
3	0.24	0.03	9.64	18.73	28.40	52.22	-23.82	Average
4	0.24	0.03	9.64	37.45	47.12	62.22	-15.10	QP
5	0.57	0.07	9.64	8.16	17.87	46.00	-28.13	Average
6	0.57	0.07	9.64	22.20	31.91	56.00	-24.09	QP
7	1.42	0.12	9.70	13.17	22.99	46.00	-23.01	Average
8	1.42	0.12	9.70	22.17	31.99	56.00	-24.01	QP
9	2.24	0.16	9.68	6.60	16.44	46.00	-29.56	Average
10	2.24	0.16	9.68	14.44	24.28	56.00	-31.72	QP
11	17.85	0.23	10.21	19.13	29.57	50.00	-20.43	Average
12	17.85	0.23	10.21	24.60	35.04	60.00	-24.96	QP



Mode:k; Line:Live Line



Site : Shielding Room

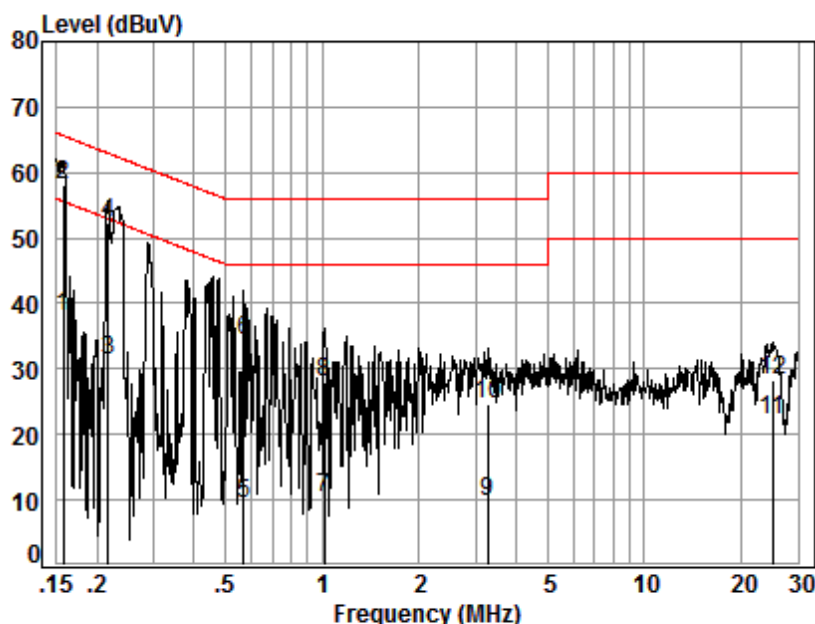
Condition: Line

Job No. : 12626CR

Test mode: k

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	30.30	39.97	55.38	-15.41	Average
2	0.16	0.01	9.66	48.40	58.07	65.38	-7.31	QP
3	0.22	0.03	9.66	25.93	35.62	52.70	-17.08	Average
4	0.22	0.03	9.66	44.61	54.30	62.70	-8.40	QP
5	0.57	0.07	9.67	21.32	31.06	46.00	-14.94	Average
6	0.57	0.07	9.67	32.32	42.06	56.00	-13.94	QP
7	1.05	0.09	9.74	16.95	26.78	46.00	-19.22	Average
8	1.05	0.09	9.74	18.59	28.42	56.00	-27.58	QP
9	2.20	0.16	9.72	3.06	12.94	46.00	-33.06	Average
10	2.20	0.16	9.72	17.77	27.65	56.00	-28.35	QP
11	16.05	0.22	10.28	8.29	18.79	50.00	-31.21	Average
12	16.05	0.22	10.28	16.54	27.04	60.00	-32.96	QP

Mode:k; Line:Neutral Line



Site : Shielding Room

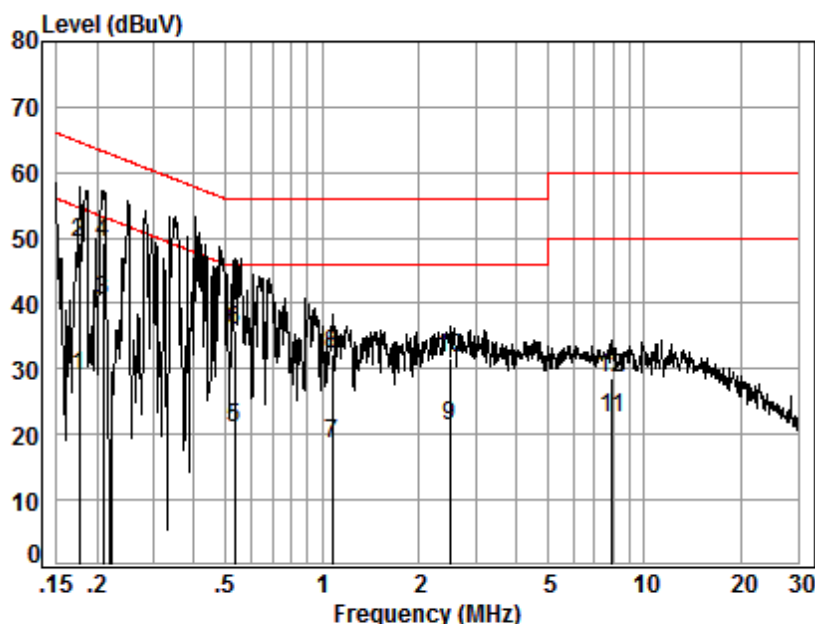
Condition: Neutral

Job No. : 12626CR

Test mode: k

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.63	28.48	38.12	55.60	-17.48	Average
2	0.16	0.01	9.63	48.55	58.19	65.60	-7.41	QP
3	0.22	0.03	9.64	21.70	31.37	52.96	-21.59	Average
4	0.22	0.03	9.64	42.57	52.24	62.96	-10.72	QP
5	0.57	0.07	9.64	-0.36	9.35	46.00	-36.65	Average
6	0.57	0.07	9.64	24.61	34.32	56.00	-21.68	QP
7	1.02	0.09	9.71	0.68	10.48	46.00	-35.52	Average
8	1.02	0.09	9.71	18.15	27.95	56.00	-28.05	QP
9	3.26	0.16	9.68	-0.15	9.69	46.00	-36.31	Average
10	3.26	0.16	9.68	14.92	24.76	56.00	-31.24	QP
11	24.92	0.26	10.29	11.79	22.34	50.00	-27.66	Average
12	24.92	0.26	10.29	17.85	28.40	60.00	-31.60	QP

Mode:I; Line:Live Line



Site : Shielding Room

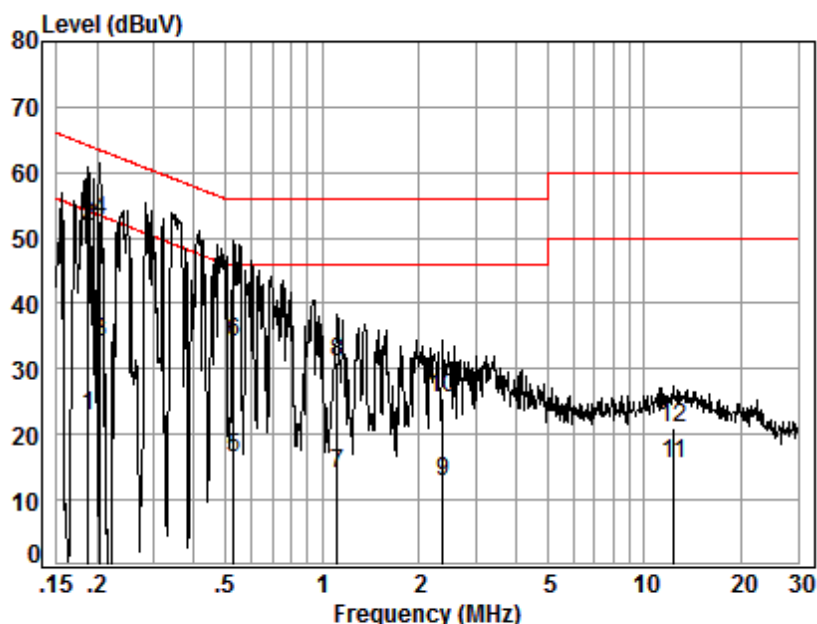
Condition: Line

Job No. : 12626CR

Test mode: 1

	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	9.66	19.17	28.85	54.64	-25.79	Average
2	0.18	0.02	9.66	39.61	49.29	64.64	-15.35	QP
3	0.21	0.02	9.66	30.68	40.36	53.27	-12.91	Average
4	0.21	0.02	9.66	39.61	49.29	63.27	-13.98	QP
5	0.53	0.06	9.67	11.34	21.07	46.00	-24.93	Average
6	0.53	0.06	9.67	26.25	35.98	56.00	-20.02	QP
7	1.08	0.10	9.74	8.64	18.48	46.00	-27.52	Average
8	1.08	0.10	9.74	22.31	32.15	56.00	-23.85	QP
9	2.49	0.16	9.71	11.55	21.42	46.00	-24.58	Average
10	2.49	0.16	9.71	21.83	31.70	56.00	-24.30	QP
11	7.94	0.17	9.80	12.57	22.54	50.00	-27.46	Average
12	7.94	0.17	9.80	18.49	28.46	60.00	-31.54	QP

Mode:I; Line:Neutral Line



Site : Shielding Room

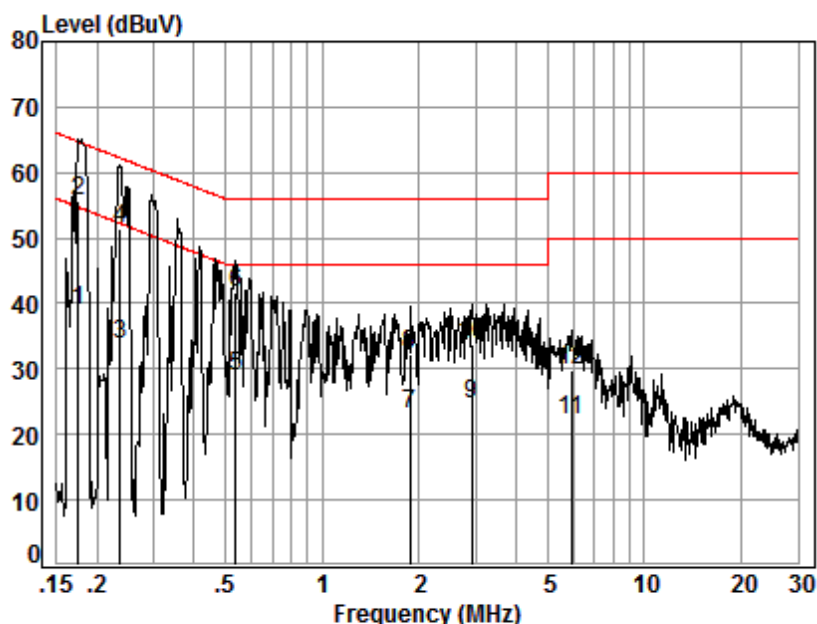
Condition: Neutral

Job No. : 12626CR

Test mode: 1

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.64	13.03	22.69	54.11	-31.42	Average
2	0.19	0.02	9.64	41.91	51.57	64.11	-12.54	QP
3	0.21	0.02	9.64	24.45	34.11	53.40	-19.29	Average
4	0.21	0.02	9.64	42.91	52.57	63.40	-10.83	QP
5	0.53	0.06	9.64	6.72	16.42	46.00	-29.58	Average
6	0.53	0.06	9.64	24.26	33.96	56.00	-22.04	QP
7	1.12	0.10	9.70	4.15	13.95	46.00	-32.05	Average
8	1.12	0.10	9.70	21.23	31.03	56.00	-24.97	QP
9	2.37	0.16	9.68	3.03	12.87	46.00	-33.13	Average
10	2.37	0.16	9.68	15.73	25.57	56.00	-30.43	QP
11	12.32	0.19	10.12	5.26	15.57	50.00	-34.43	Average
12	12.32	0.19	10.12	10.77	21.08	60.00	-38.92	QP

Mode:m; Line:Live Line



Site : Shielding Room

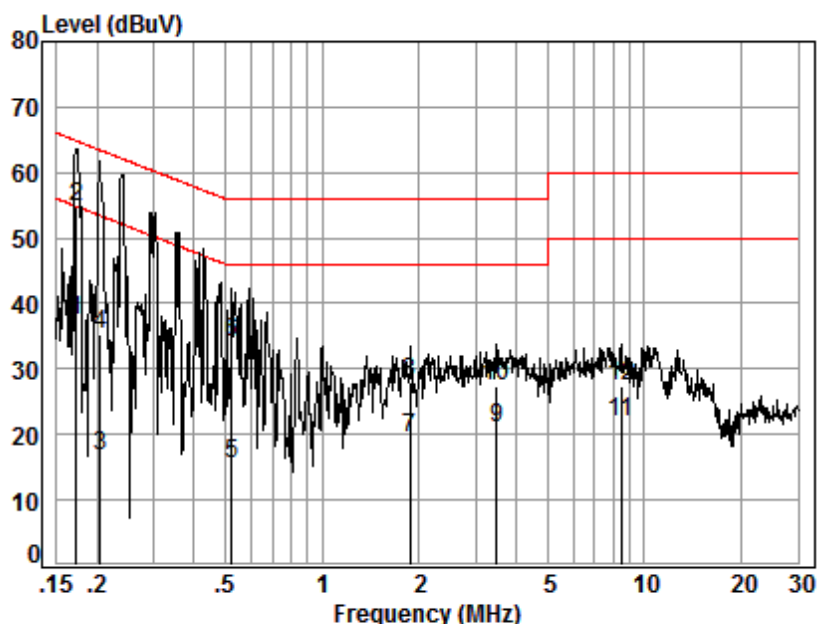
Condition: Line

Job No. : 12626CR

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	9.66	29.28	38.96	54.72	-15.76	Average
2	0.17	0.02	9.66	45.98	55.66	64.72	-9.06	QP
3	0.24	0.03	9.67	23.98	33.68	52.22	-18.54	Average
4	0.24	0.03	9.67	41.78	51.48	62.22	-10.74	QP
5	0.54	0.06	9.67	19.15	28.88	46.00	-17.12	Average
6	0.54	0.06	9.67	31.92	41.65	56.00	-14.35	QP
7	1.88	0.15	9.72	13.20	23.07	46.00	-22.93	Average
8	1.88	0.15	9.72	22.32	32.19	56.00	-23.81	QP
9	2.92	0.16	9.71	14.89	24.76	46.00	-21.24	Average
10	2.92	0.16	9.71	23.96	33.83	56.00	-22.17	QP
11	5.93	0.17	9.76	12.26	22.19	50.00	-27.81	Average
12	5.93	0.17	9.76	19.82	29.75	60.00	-30.25	QP

Mode:m; Line:Neutral Line



Site : Shielding Room

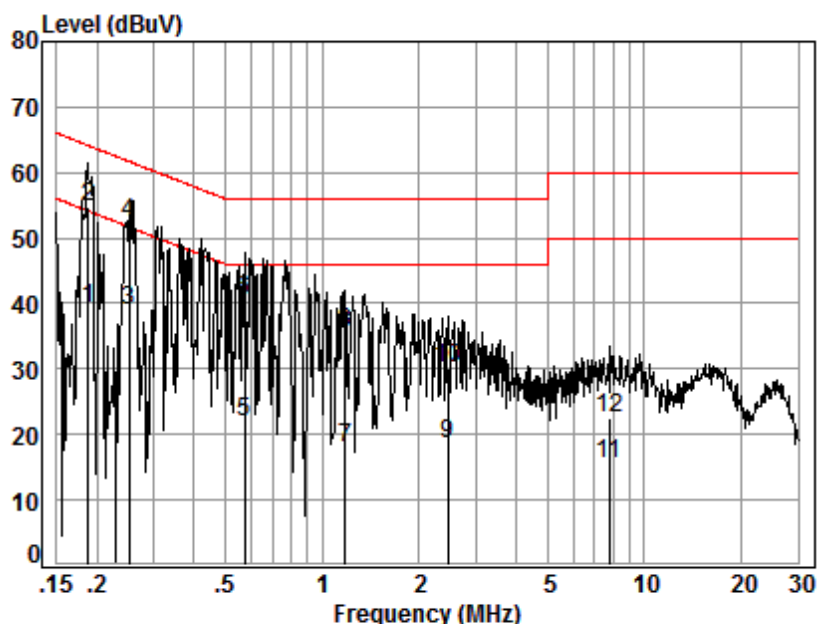
Condition: Neutral

Job No. : 12626CR

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	9.64	27.90	37.56	54.86	-17.30	Average
2	0.17	0.02	9.64	45.10	54.76	64.86	-10.10	QP
3	0.20	0.02	9.64	7.12	16.78	53.45	-36.67	Average
4	0.20	0.02	9.64	25.53	35.19	63.45	-28.26	QP
5	0.52	0.06	9.64	5.92	15.62	46.00	-30.38	Average
6	0.52	0.06	9.64	24.41	34.11	56.00	-21.89	QP
7	1.88	0.15	9.69	9.68	19.52	46.00	-26.48	Average
8	1.88	0.15	9.69	18.28	28.12	56.00	-27.88	QP
9	3.49	0.16	9.69	11.02	20.87	46.00	-25.13	Average
10	3.49	0.16	9.69	17.41	27.26	56.00	-28.74	QP
11	8.46	0.17	9.80	11.98	21.95	50.00	-28.05	Average
12	8.46	0.17	9.80	17.34	27.31	60.00	-32.69	QP

Mode:n; Line:Live Line



Site : Shielding Room

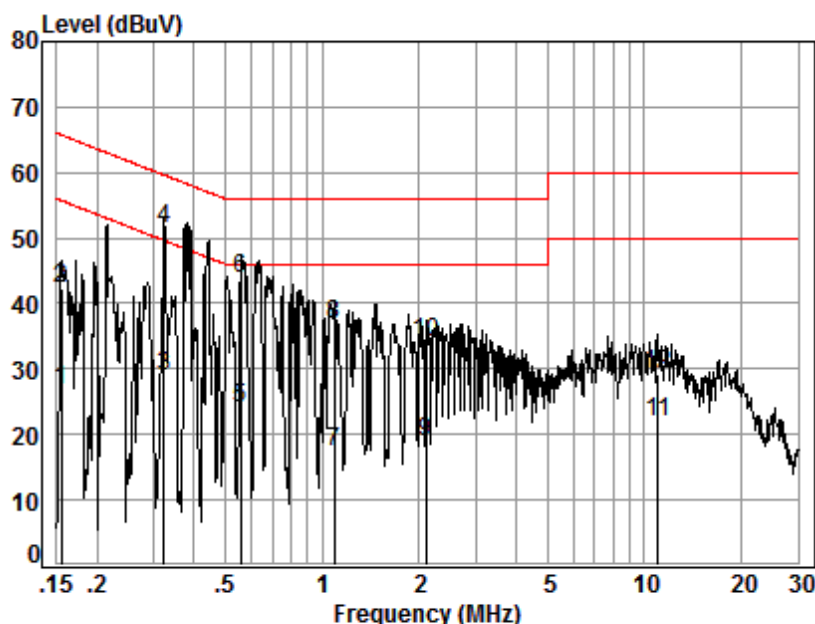
Condition: Line

Job No. : 12626CR

Test mode: n

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.66	29.52	39.20	54.15	-14.95	Average
2	0.19	0.02	9.66	45.15	54.83	64.15	-9.32	QP
3	0.25	0.03	9.67	29.19	38.89	51.69	-12.80	Average
4	0.25	0.03	9.67	42.47	52.17	61.69	-9.52	QP
5	0.58	0.07	9.67	12.09	21.83	46.00	-24.17	Average
6	0.58	0.07	9.67	30.87	40.61	56.00	-15.39	QP
7	1.18	0.11	9.73	8.13	17.97	46.00	-28.03	Average
8	1.18	0.11	9.73	25.69	35.53	56.00	-20.47	QP
9	2.46	0.16	9.71	8.63	18.50	46.00	-27.50	Average
10	2.46	0.16	9.71	20.30	30.17	56.00	-25.83	QP
11	7.77	0.17	9.80	5.54	15.51	50.00	-34.49	Average
12	7.77	0.17	9.80	12.59	22.56	60.00	-37.44	QP

Mode:n; Line:Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 12626CR

Test mode: n

	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	17.25	26.89	55.74	-28.85	Average
2	0.15	0.01	9.63	32.72	42.36	65.74	-23.38	QP
3	0.32	0.04	9.64	19.09	28.77	49.62	-20.85	Average
4	0.32	0.04	9.64	41.86	51.54	59.62	-8.08	QP
5	0.56	0.07	9.64	14.24	23.95	46.00	-22.05	Average
6	0.56	0.07	9.64	34.20	43.91	56.00	-12.09	QP
7	1.09	0.10	9.71	7.52	17.33	46.00	-28.67	Average
8	1.09	0.10	9.71	27.04	36.85	56.00	-19.15	QP
9	2.10	0.16	9.69	9.01	18.86	46.00	-27.14	Average
10	2.10	0.16	9.69	24.31	34.16	56.00	-21.84	QP
11	11.02	0.18	9.97	11.65	21.80	50.00	-28.20	Average
12	11.02	0.18	9.97	19.02	29.17	60.00	-30.83	QP

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



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6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 55 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case:

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

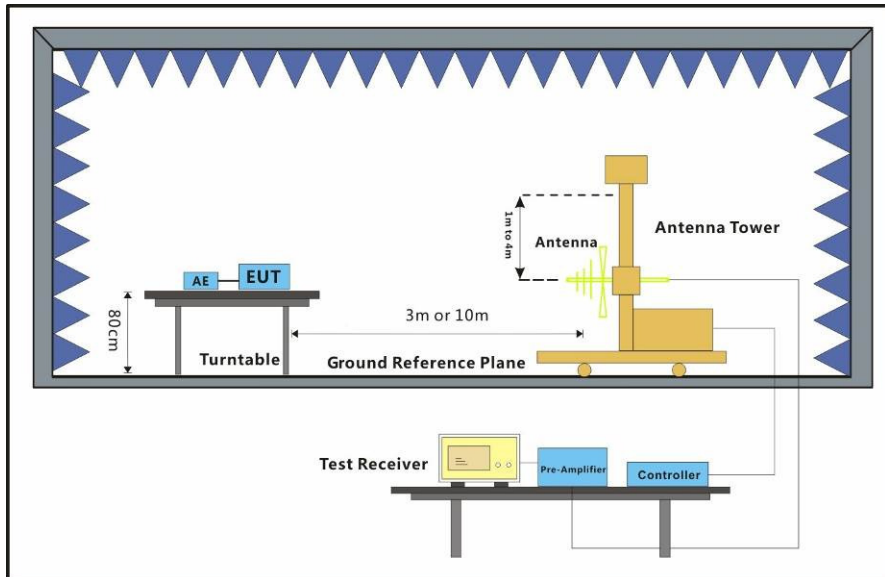
The worst case for final test:

- h: Transfer data between the EUT1 and the PC+USB cable1
- k: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)+adapter1+battery1



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6.2.2 Test Setup Diagram

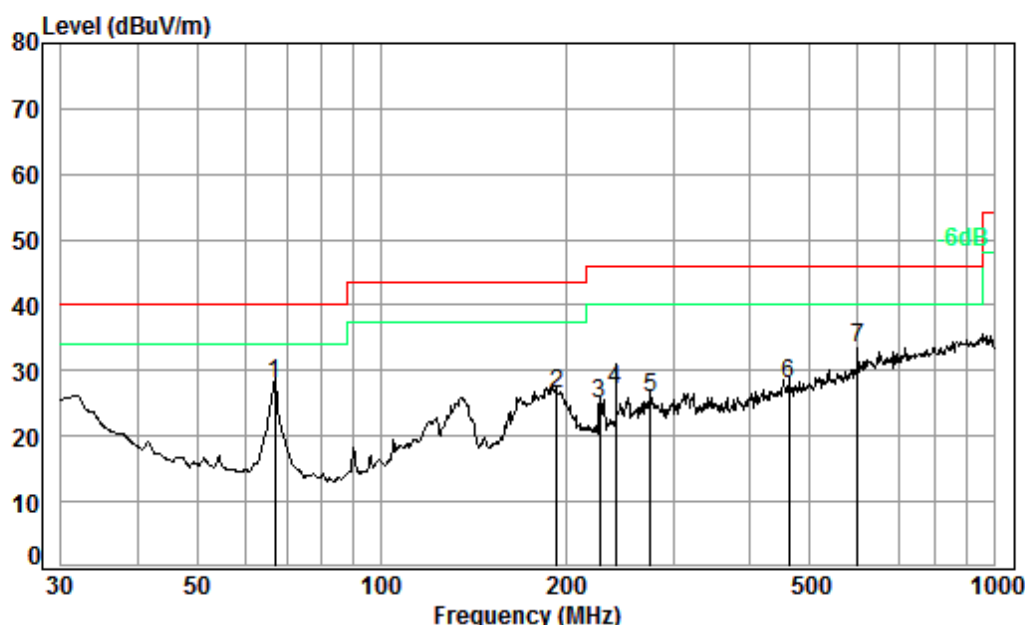


6.2.3 Measurement Data

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



Mode:h; Polarization:Horizontal



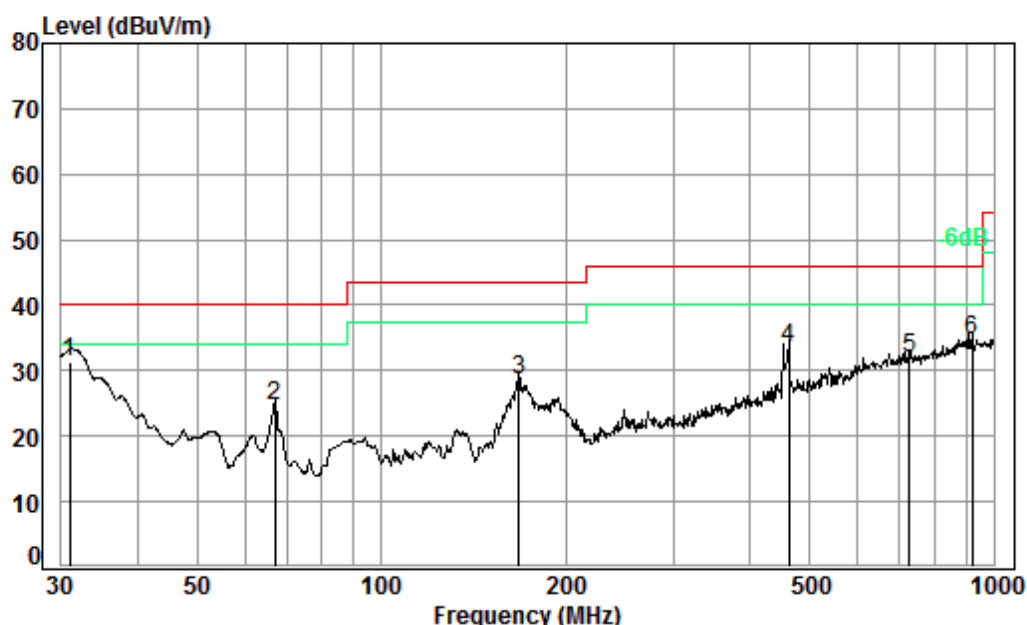
Condition: 3m HORIZONTAL

Job No. : 12626CR

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 pp	66.97	0.80	12.91	27.54	41.69	27.86	40.00	-12.14
2	193.09	1.39	16.30	27.53	36.43	26.59	43.50	-16.91
3	226.89	1.56	17.77	27.53	33.03	24.83	46.00	-21.17
4	241.68	1.63	18.83	27.53	34.20	27.13	46.00	-18.87
5	275.16	1.79	18.87	27.54	32.71	25.83	46.00	-20.17
6	462.35	2.46	23.83	27.83	29.48	27.94	46.00	-18.06
7	599.32	2.70	26.59	27.70	31.85	33.44	46.00	-12.56

Mode:h; Polarization:Vertical



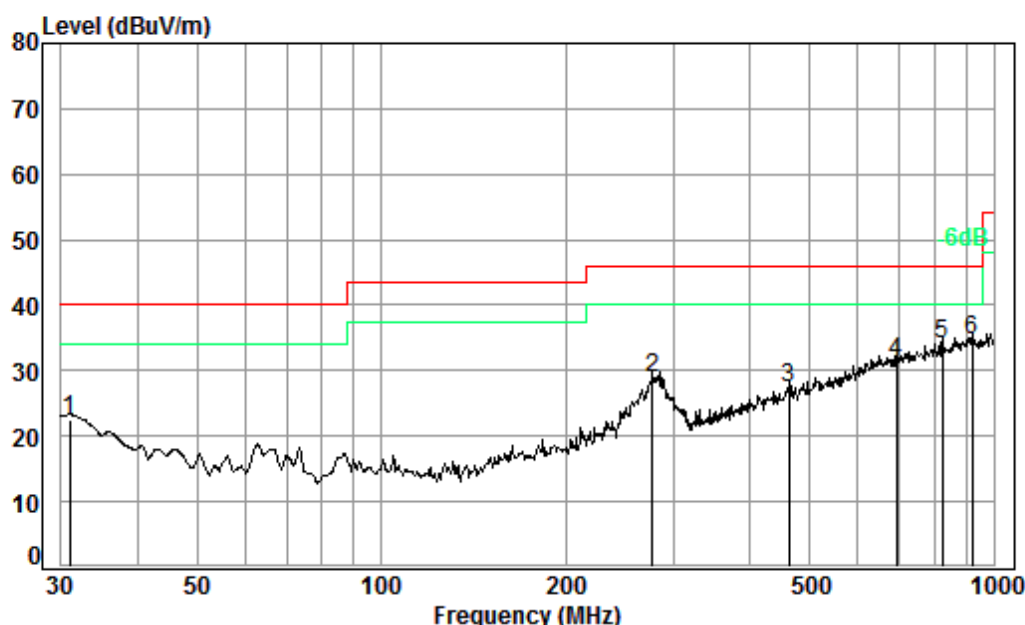
Condition: 3m VERTICAL

Job No. : 12626CR

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 pp	30.96	0.60	21.95	27.67	36.53	31.41	40.00	-8.59
2	66.97	0.80	12.91	27.54	38.37	24.54	40.00	-15.46
3	167.82	1.35	15.66	27.52	39.09	28.58	43.50	-14.92
4	462.35	2.46	23.83	27.83	35.14	33.60	46.00	-12.40
5	729.36	2.99	28.08	27.51	28.43	31.99	46.00	-14.01
6	922.52	3.62	29.92	27.00	28.18	34.72	46.00	-11.28

Mode:k; Polarization:Horizontal



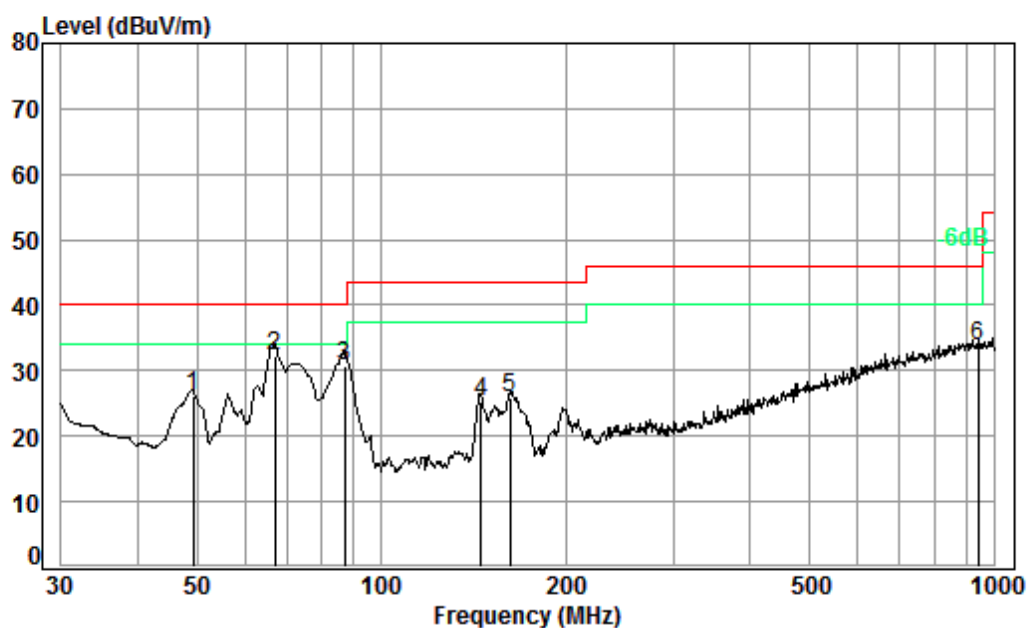
Condition: 3m HORIZONTAL

Job No. : 12626CR

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	30.96	0.60	21.95	27.67	27.51	22.39	40.00	-17.61
2	277.09	1.80	18.84	27.54	35.93	29.03	46.00	-16.97
3	462.35	2.46	23.83	27.83	28.87	27.33	46.00	-18.67
4	694.42	2.89	27.83	27.56	28.24	31.40	46.00	-14.60
5	824.60	3.31	28.83	27.33	29.30	34.11	46.00	-11.89
6 pp	922.52	3.62	29.92	27.00	28.04	34.58	46.00	-11.42

Mode:k; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 12626CR

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	49.36	0.79	14.39	27.60	38.45	26.03	40.00	-13.97
2 pp	66.97	0.80	12.91	27.54	46.04	32.21	40.00	-7.79
3	87.11	1.10	12.80	27.50	44.41	30.81	40.00	-9.19
4	145.35	1.31	14.21	27.52	37.39	25.39	43.50	-18.11
5	162.04	1.34	15.54	27.52	36.49	25.85	43.50	-17.65
6	942.13	3.64	30.02	26.94	27.11	33.83	46.00	-12.17



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



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6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.1 °C Humidity: 58.8 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case:

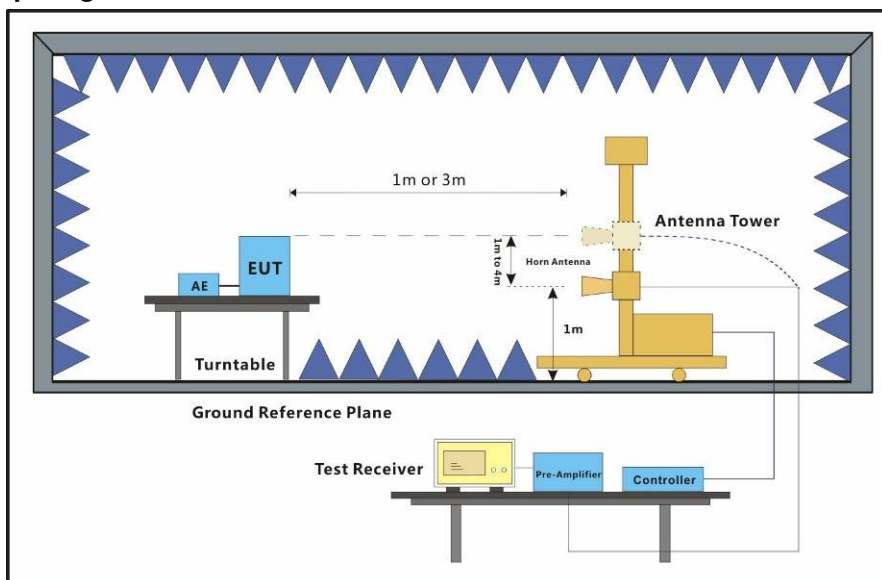
- h: Transfer data between the EUT1 and the PC+USB cable1
- i: Transfer data between the EUT2 and the PC+USB cable2
- j: Transfer data between the EUT(worst) and the PC+USB cable3
- k: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card) +earphone1/adapter1+battery1
- l: Telecom Idle+BT+WLAN+NFC+GPS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

The worst case for final test:

- h: Transfer data between the EUT1 and the PC+USB cable1
- m: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back) + adapter3+battery1



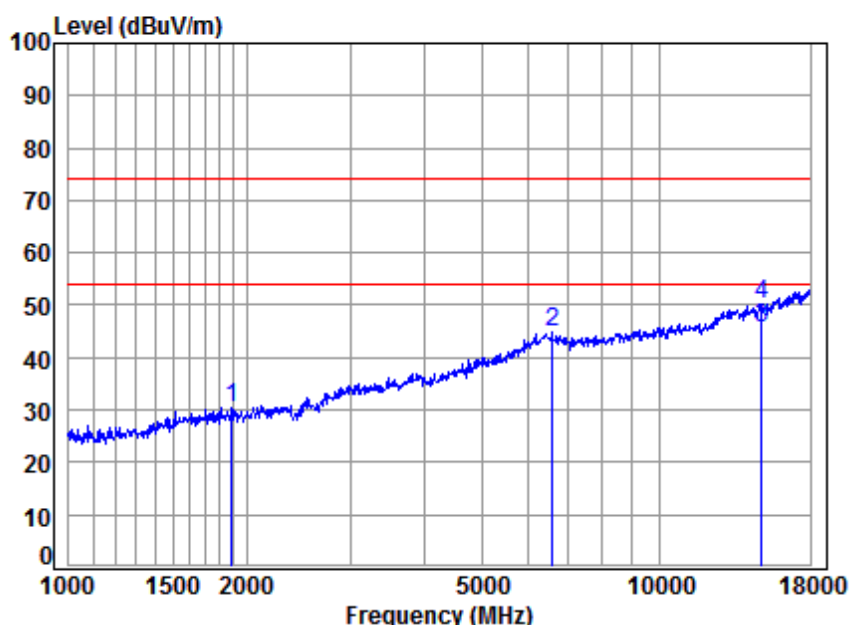
6.3.2 Test Setup Diagram



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.

Mode:h; Polarization:Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12626CR
Mode : h

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1888.687	5.02	27.40	40.94	38.99	30.47	74.00	-43.53	Peak
2	6583.209	11.30	35.65	42.34	40.20	44.81	74.00	-29.19	Peak
3	14916.940	13.90	40.32	40.65	32.23	45.80	54.00	-8.20	Average
4	14916.940	13.90	40.32	40.65	36.60	50.17	74.00	-23.83	Peak

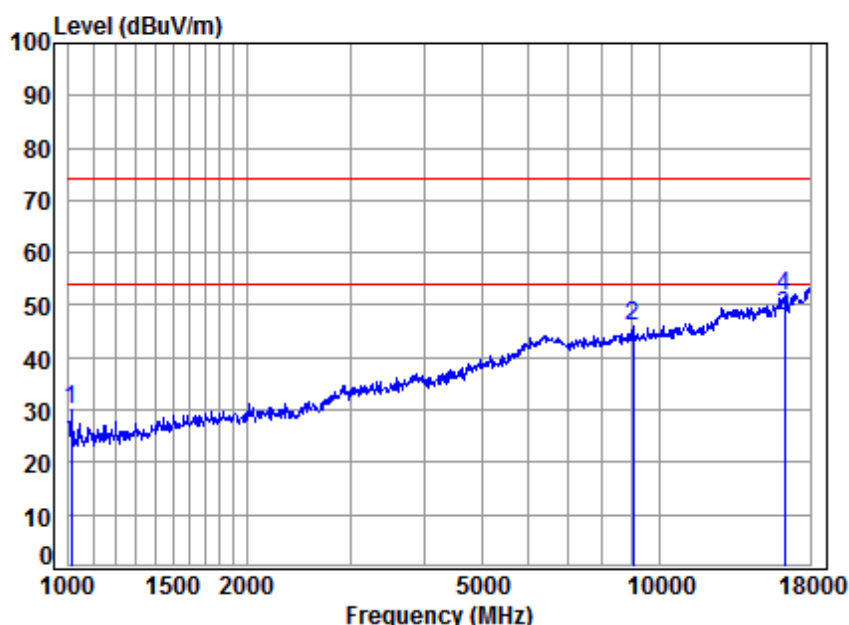


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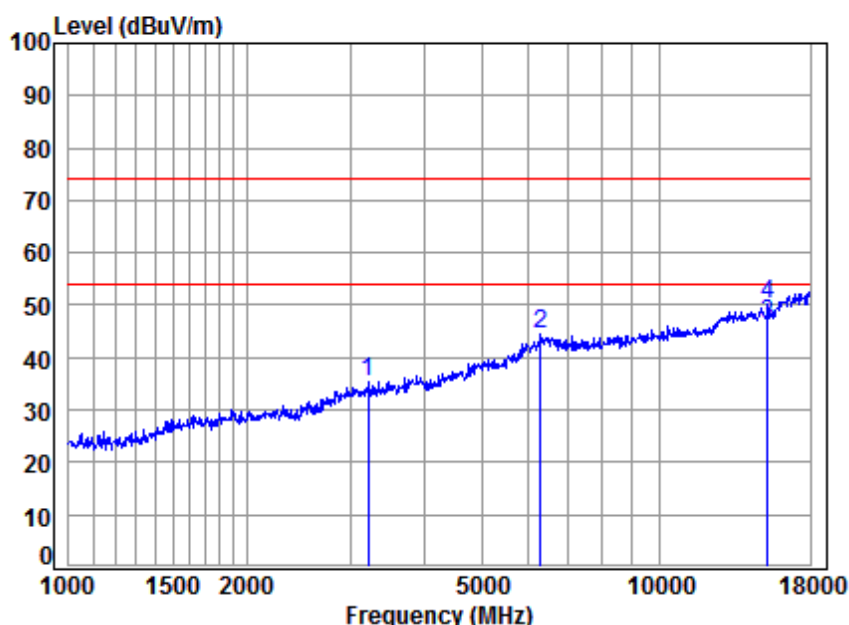
Mode:h; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 12626CR
Mode : h

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1011.629	3.61	23.66	40.31	42.89	29.85	74.00	-44.15	Peak
2	9021.160	10.41	37.22	39.42	37.73	45.94	74.00	-28.06	Peak
3	16268.140	14.73	41.65	40.48	31.86	47.76	54.00	-6.24	Average
4	16268.140	14.73	41.65	40.48	36.00	51.90	74.00	-22.10	Peak

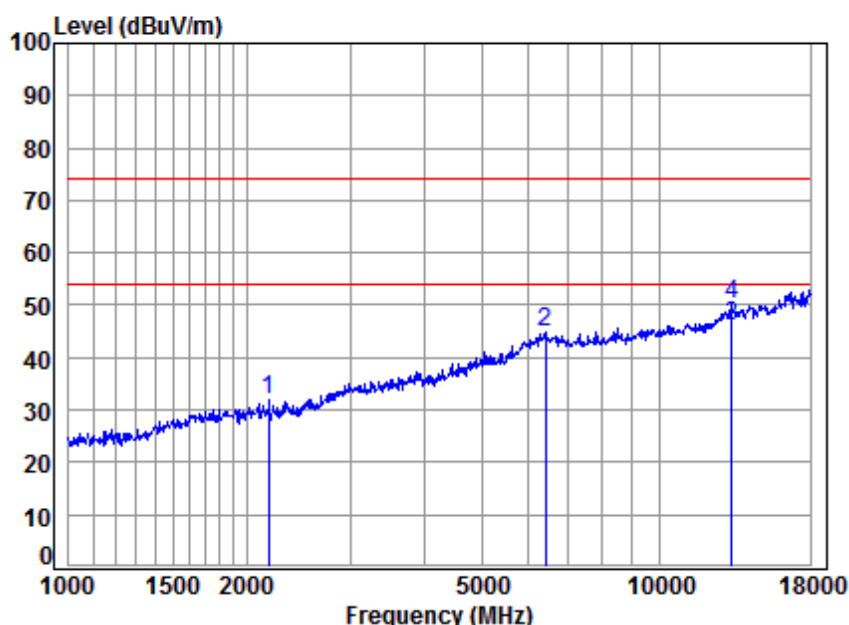
Mode:m; Polarization:Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12626CR
Mode : m

	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	3214.623	6.20	31.26	41.72	39.69	35.43	74.00	-38.57	Peak
2	6303.890	11.17	35.41	42.57	40.30	44.31	74.00	-29.69	Peak
3	15265.880	14.10	40.56	40.65	32.54	46.55	54.00	-7.45	Average
4	15265.880	14.10	40.56	40.65	36.19	50.20	74.00	-23.80	Peak

Mode:m; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 12626CR
Mode : m

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2182.346	5.18	28.15	41.08	39.83	32.08	74.00	-41.92	Peak
2	6414.167	11.38	35.52	42.48	40.27	44.69	74.00	-29.31	Peak
3	13249.930	13.21	38.60	39.59	33.86	46.08	54.00	-7.92	Average
4	13249.930	13.21	38.60	39.59	38.07	50.29	74.00	-23.71	Peak



7 Photographs

7.1 Test Setup

Refer to Setup Photos

7.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

- End of the Report -



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