

TEST REPORT

Application No.: SZCR2501000085WM
Applicant: TCL Communication Ltd.
Address of Applicant: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer: TCL Communication Ltd.
Address of Manufacturer: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Factory: Huizhou TCL Mobile Communication Co., Ltd.
Address of Factory: No.86, Hechang 7th West Road, Zhong Kai Hi-tech Development District, Huizhou, Guangdong China 516006
Equipment Under Test (EUT):
EUT Name: Smartphone
Model No.: T519N, T521N ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: 2ACCJH190
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2025-01-07
Date of Test: 2025-01-11 to 2025-02-05
Date of Issue: 2025-02-10

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) EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-02-10		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/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	15.107(a);Class B	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.4:2014	15.109(a);Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4:2014	15.109(g);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

Declaration of EUT Family Grouping:

Model No.: T519N, T521N

Both models were tested on this report, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference being:

1. Change pin to pin memory from 4+128 to 6+256G
2. T521N add Eye protection coating on LCD
3. T521N adds an additional compatible charging IC chip, and the charging power is changed from 10W to 18W, and the peripheral circuitry remains unchanged
4. T521N add extra side key



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.91V by li-ion battery(5000mAh) Battery M/N:TLp050C7 Battery Manufacturer: Dongguan Veken Battery Co.,Ltd. Recharge input:DC5V/2A by power adapter for T519N Adapter M/N:UC13US Adapter Input:AC100-240V, 50/60Hz, 0.5A Adapter Manufacturer 1:HUIZHOU JUWEI ELECTRONICS CO.,LTD. Adapter Manufacturer 2:HUIZHOU PUAN ELECTRONICS CO.,LTD. Recharge input:DC5V/3A,9V/2A,12V/1.5A by power adapter for T521N Adapter M/N:QC13US Adapter Input:AC100-240V, 50/60Hz, 0.5A Adapter Manufacturer 1:HUIZHOU JUWEI ELECTRONICS CO.,LTD. Adapter Manufacturer 2:HUIZHOU PUAN ELECTRONICS CO.,LTD.
Cable(s):	USB type C cable:0.8m unshielded cable without ferrite core Earphone cable:1.2m
Internal Source:	>108MHz

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	REF. No.SEA18C01F
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A01
Router	NETGEAR	DGN2200	REF. No.SEA22A00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 3.1\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, 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:

• 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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• 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	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-8	2026-01-7
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

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	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05

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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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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

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:

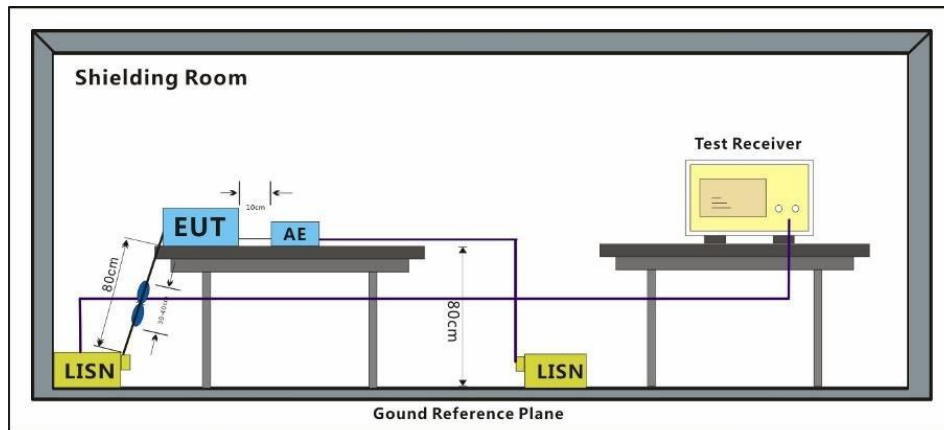
Temperature: 22.9 °C Humidity: 48.2 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	22	Normal Operation: UC13US adapter Charge+Front Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Pre-scan	23	Normal Operation: UC13US adapter Charge+Rear Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Final test	24	Normal Operation: UC13US adapter Charge+Play MP4+earphone +BT+WIFI+NFC+WWAN idle+FM
Final test	25	Normal Operation: QC13US adapter Charge+Front Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Pre-scan	26	Normal Operation: QC13US adapter Charge+Rear Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Pre-scan	27	Normal Operation: QC13US adapter Charge+Play MP4+earphone +BT+WIFI+NFC+WWAN idle+FM
Final test	28	Normal Operation: Data exchange between PC and EUT



6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and 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.

Remark: Level= Read Level+ Cable Loss+ LISN Factor



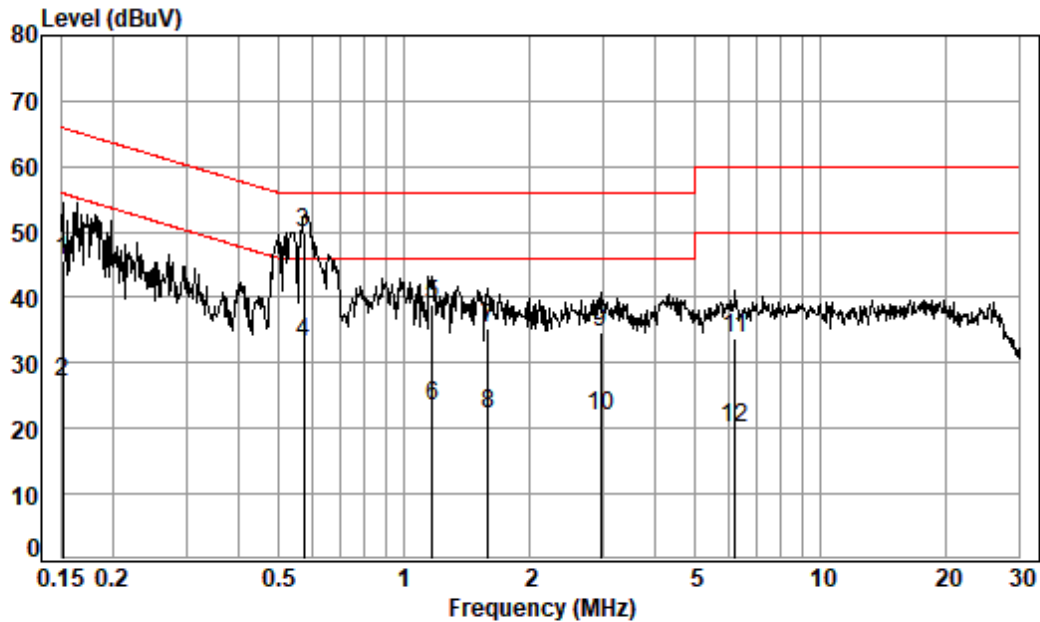
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Test Mode: 24; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00085WM

Test mode: 24

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.06	10.19	35.44	45.69	65.91	-20.22	QP
2	0.1516	0.06	10.19	16.77	27.02	55.91	-28.89	Average
3 *	0.5731	0.08	9.58	40.29	49.95	56.00	-6.05	QP
4 *	0.5731	0.08	9.58	23.41	33.07	46.00	-12.93	Average
5	1.1657	0.09	9.58	29.15	38.82	56.00	-17.18	QP
6	1.1657	0.09	9.58	13.89	23.56	46.00	-22.44	Average
7	1.5935	0.10	9.58	25.60	35.28	56.00	-20.72	QP
8	1.5935	0.10	9.58	12.46	22.14	46.00	-23.86	Average
9	2.9619	0.11	9.65	25.06	34.82	56.00	-21.18	QP
10	2.9619	0.11	9.65	12.08	21.84	46.00	-24.16	Average
11	6.2189	0.15	9.67	23.96	33.78	60.00	-26.22	QP
12	6.2189	0.15	9.67	10.22	20.04	50.00	-29.96	Average



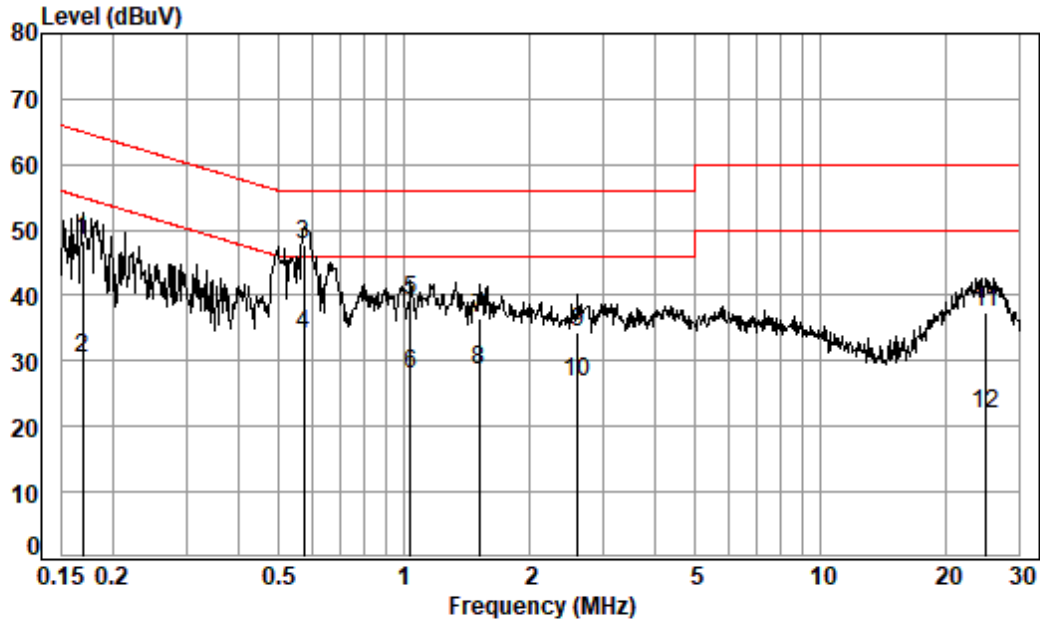
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Test Mode: 24; Line: Neutral Line

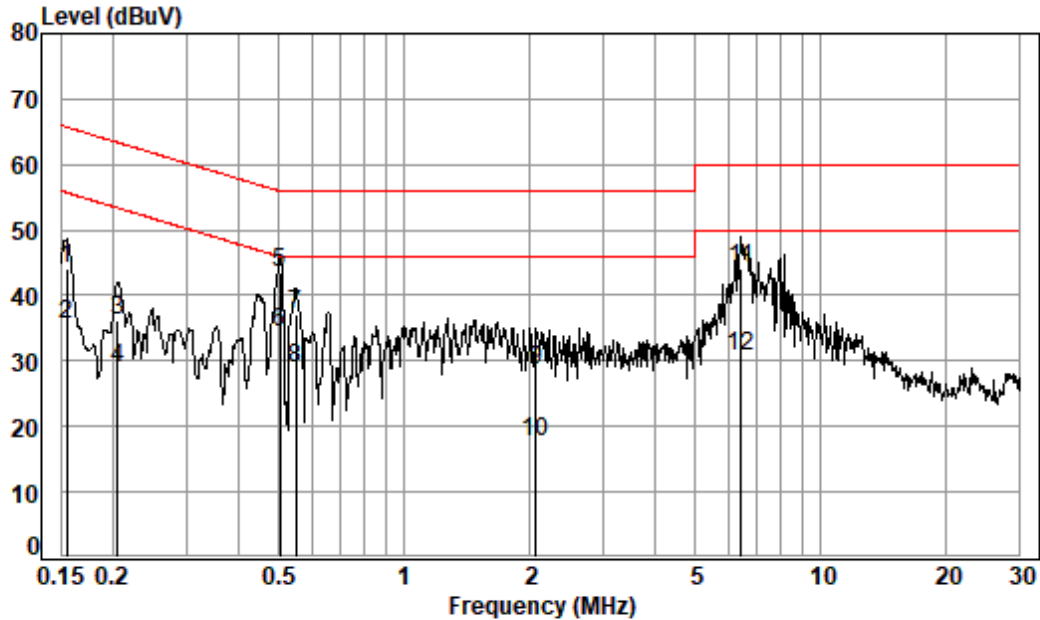


Site : Shielding Room
Condition: Neutral
Job No. : 00085WM
Test mode: 24

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1694	0.06	10.12	38.27	48.45	64.99	-16.54	QP
2	0.1694	0.06	10.12	20.18	30.36	54.99	-24.63	Average
3 *	0.5762	0.08	9.68	38.08	47.84	56.00	-8.16	QP
4 *	0.5762	0.08	9.68	24.39	34.15	46.00	-11.85	Average
5	1.0375	0.09	9.54	29.47	39.10	56.00	-16.90	QP
6	1.0375	0.09	9.54	18.33	27.96	46.00	-18.04	Average
7	1.5113	0.10	9.55	26.95	36.60	56.00	-19.40	QP
8	1.5113	0.10	9.55	19.02	28.67	46.00	-17.33	Average
9	2.6082	0.11	9.54	24.71	34.36	56.00	-21.64	QP
10	2.6082	0.11	9.54	17.25	26.90	46.00	-19.10	Average
11	24.7904	0.34	10.43	26.52	37.29	60.00	-22.71	QP
12	24.7904	0.34	10.43	11.15	21.92	50.00	-28.08	Average



Test Mode: 25; Line: Live line

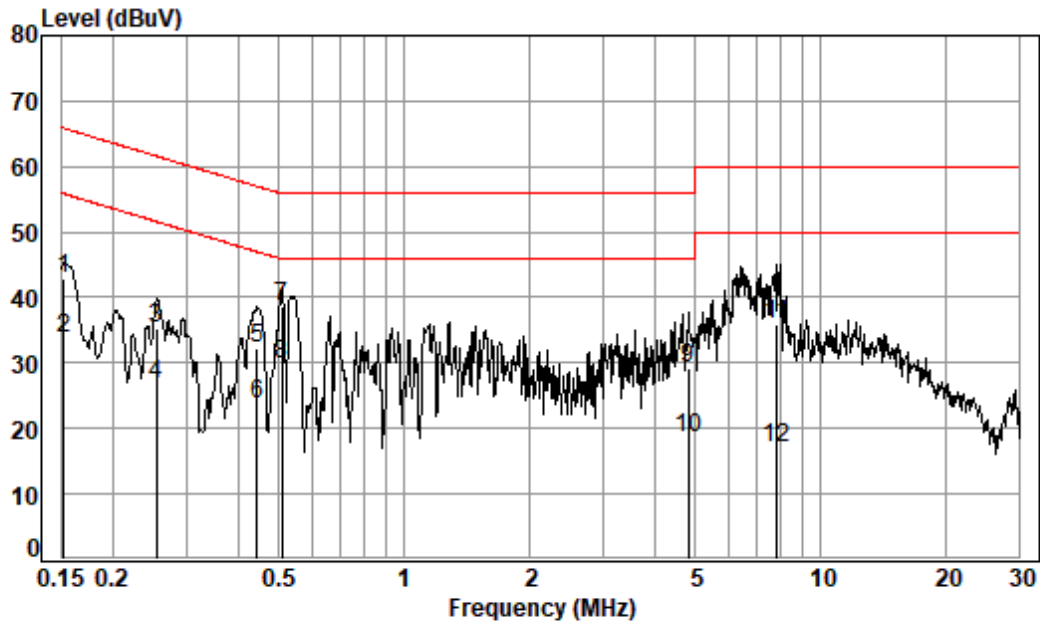


Site : Shielding Room
Condition: Line
Job No. : 00085WM
Test mode: 25

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1548	0.06	10.19	33.95	44.20	65.74	-21.54	QP
2	0.1548	0.06	10.19	25.20	35.45	55.74	-20.29	Average
3	0.2050	0.06	10.10	25.99	36.15	63.40	-27.25	QP
4	0.2050	0.06	10.10	18.59	28.75	53.40	-24.65	Average
5 *	0.5047	0.08	9.54	33.80	43.42	56.00	-12.58	QP
6 *	0.5047	0.08	9.54	24.60	34.22	46.00	-11.78	Average
7	0.5493	0.08	9.57	27.59	37.24	56.00	-18.76	QP
8	0.5493	0.08	9.57	19.31	28.96	46.00	-17.04	Average
9	2.0659	0.10	9.59	19.04	28.73	56.00	-27.27	QP
10	2.0659	0.10	9.59	8.00	17.69	46.00	-28.31	Average
11	6.4198	0.15	9.67	34.26	44.08	60.00	-15.92	QP
12	6.4198	0.15	9.67	21.03	30.85	50.00	-19.15	Average



Test Mode: 25; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00085WM
Test mode: 25

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.06	10.15	32.81	43.02	65.87	-22.85	QP
2	0.1524	0.06	10.15	23.48	33.69	55.87	-22.18	Average
3	0.2548	0.07	9.89	25.40	35.36	61.60	-26.24	QP
4	0.2548	0.07	9.89	16.83	26.79	51.60	-24.81	Average
5	0.4444	0.08	9.72	22.47	32.27	56.98	-24.71	QP
6	0.4444	0.08	9.72	13.99	23.79	46.98	-23.19	Average
7 *	0.5101	0.08	9.71	28.73	38.52	56.00	-17.48	QP
8 *	0.5101	0.08	9.71	20.03	29.82	46.00	-16.18	Average
9	4.7969	0.12	9.56	19.55	29.23	56.00	-26.77	QP
10	4.7969	0.12	9.56	8.83	18.51	46.00	-27.49	Average
11	7.8516	0.17	9.63	26.22	36.02	60.00	-23.98	QP
12	7.8516	0.17	9.63	7.30	17.10	50.00	-32.90	Average



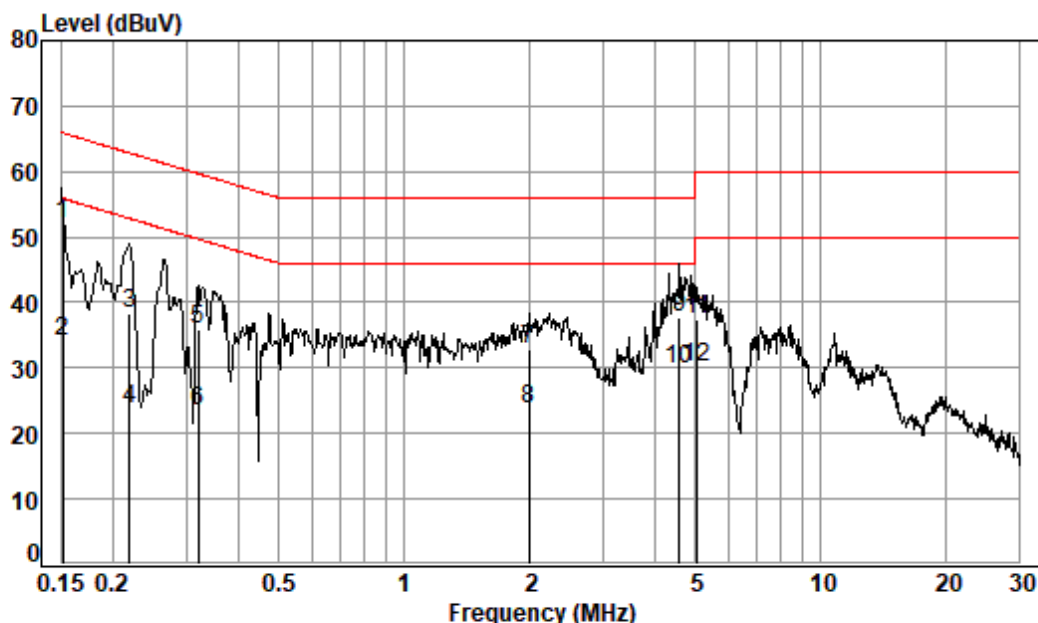
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Test Mode: 28; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00085WM

Test mode: 28

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.06	10.19	41.78	52.03	65.91	-13.88	QP
2	0.1516	0.06	10.19	23.70	33.95	55.91	-21.96	Average
3	0.2197	0.06	10.06	28.12	38.24	62.83	-24.59	QP
4	0.2197	0.06	10.06	13.67	23.79	52.83	-29.04	Average
5	0.3200	0.07	9.81	25.96	35.84	59.71	-23.87	QP
6	0.3200	0.07	9.81	13.46	23.34	49.71	-26.37	Average
7	1.9906	0.10	9.58	23.02	32.70	56.00	-23.30	QP
8	1.9906	0.10	9.58	13.91	23.59	46.00	-22.41	Average
9	4.5736	0.12	9.66	28.04	37.82	56.00	-18.18	QP
10 *	4.5736	0.12	9.66	20.11	29.89	46.00	-16.11	Average
11	5.0312	0.12	9.66	27.57	37.35	60.00	-22.65	QP
12	5.0312	0.12	9.66	20.33	30.11	50.00	-19.89	Average



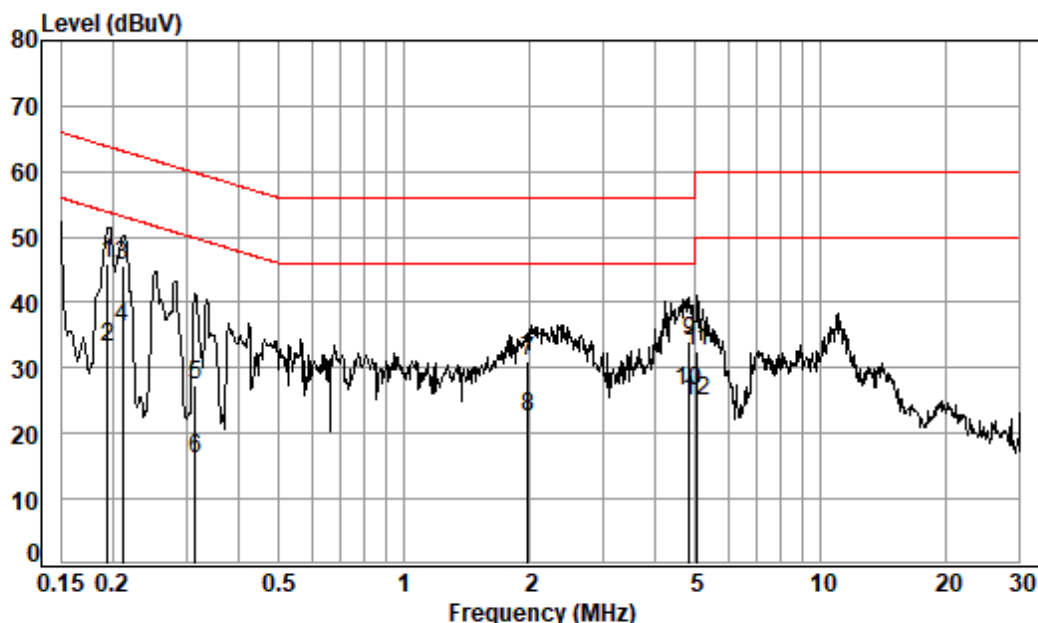
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 28; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00085WM

Test mode: 28

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1945	0.06	10.09	35.89	46.04	63.84	-17.80	QP
2	0.1945	0.06	10.09	23.15	33.30	53.84	-20.54	Average
3 *	0.2117	0.06	10.04	35.62	45.72	63.14	-17.42	QP
4 *	0.2117	0.06	10.04	25.98	36.08	53.14	-17.06	Average
5	0.3149	0.07	9.76	17.65	27.48	59.84	-32.36	QP
6	0.3149	0.07	9.76	6.15	15.98	49.84	-33.86	Average
7	1.9801	0.10	9.55	21.35	31.00	56.00	-25.00	QP
8	1.9801	0.10	9.55	12.75	22.40	46.00	-23.60	Average
9	4.8224	0.12	9.56	24.35	34.03	56.00	-21.97	QP
10	4.8224	0.12	9.56	16.85	26.53	46.00	-19.47	Average
11	5.0312	0.12	9.56	22.85	32.53	60.00	-27.47	QP
12	5.0312	0.12	9.56	15.38	25.06	50.00	-24.94	Average



6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dBμV/m (At 10m)	dBμV/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C

Humidity: 45.2 % RH

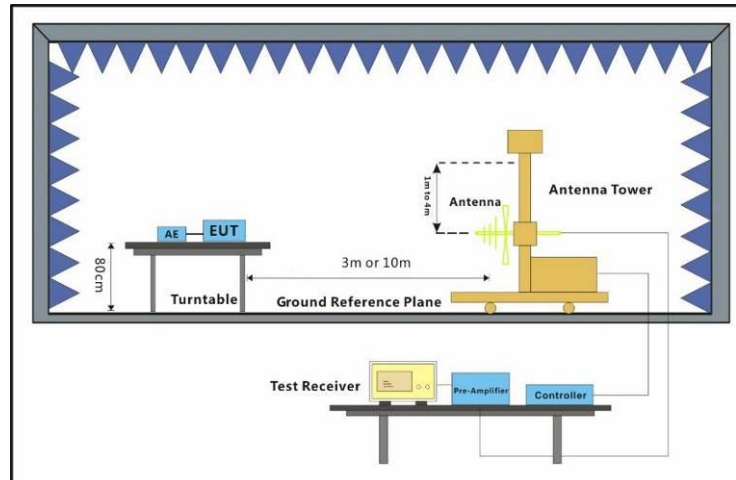
Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	22	Normal Operation: UC13US adapter Charge+Front Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Pre-scan	23	Normal Operation: UC13US adapter Charge+Rear Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Final test	24	Normal Operation: UC13US adapter Charge+Play MP4+earphone +BT+WIFI+NFC+WWAN idle+FM
Pre-scan	25	Normal Operation: QC13US adapter Charge+Front Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Pre-scan	26	Normal Operation: QC13US adapter Charge+Rear Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Final test	27	Normal Operation: QC13US adapter Charge+Play MP4+earphone +BT+WIFI+NFC+WWAN idle+FM
Final test	28	Normal Operation: Data exchange between PC and EUT
Pre-scan	29	Normal Operation: EUT USB Type C charge other device
Final test	30	Normal Operation: EUT OTG mode(read data from USB disk)



6.2.3 Test Setup Diagram



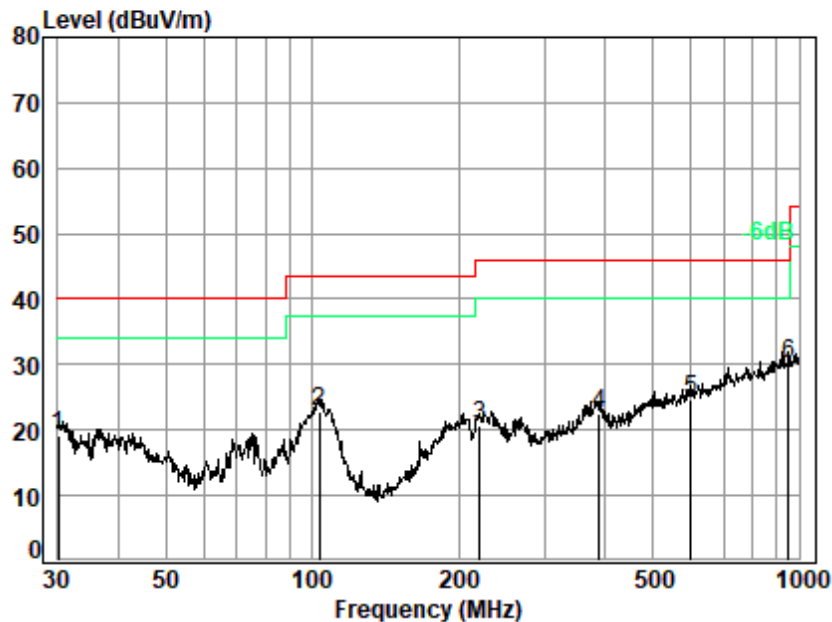
6.2.4 Measurement Procedure and Data

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.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 24; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

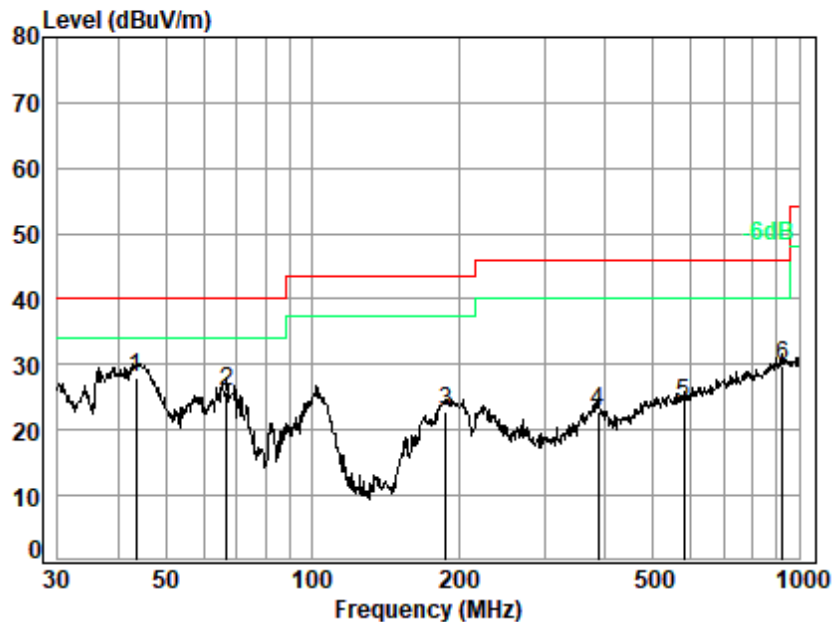
Job No. : 00085WM

Test Mode: 24

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.105	21.15	0.67	27.79	25.20	19.23	40.00	-20.77 QP
2	103.442	12.26	1.25	27.58	36.79	22.72	43.50	-20.78 QP
3	220.617	15.22	1.87	27.08	30.64	20.65	46.00	-25.35 QP
4	387.992	20.82	2.54	27.11	26.16	22.41	46.00	-23.59 QP
5	599.321	24.42	3.24	27.97	25.07	24.76	46.00	-21.24 QP
6 q	952.094	28.17	4.26	26.39	24.04	30.08	46.00	-15.92 QP



Test Mode: 24; Polarity: Vertical

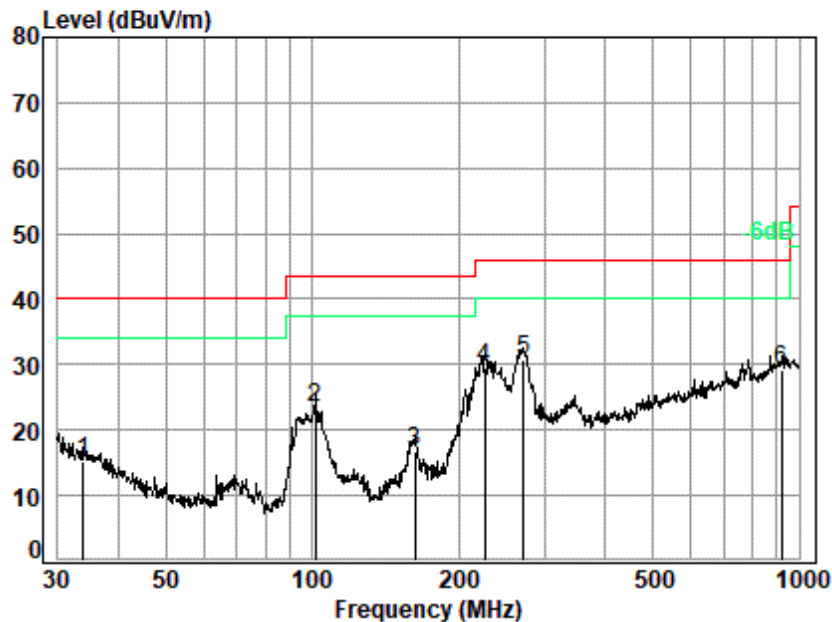


Site : chamber
Condition: 3m VERTICAL
Job No. : 00085WM
Test Mode: 24

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	43.353	14.80	0.81	27.75	40.24	28.10	40.00	-11.90 QP
2		66.733	10.84	1.00	27.69	41.74	25.89	40.00	-14.11 QP
3		187.753	14.30	1.71	27.22	33.99	22.78	43.50	-20.72 QP
4		386.634	20.85	2.54	27.10	26.58	22.87	46.00	-23.13 QP
5		580.703	23.95	3.18	27.89	24.75	23.99	46.00	-22.01 QP
6		925.756	28.18	4.19	26.58	23.97	29.76	46.00	-16.24 QP



Test Mode: 27; Polarity: Horizontal

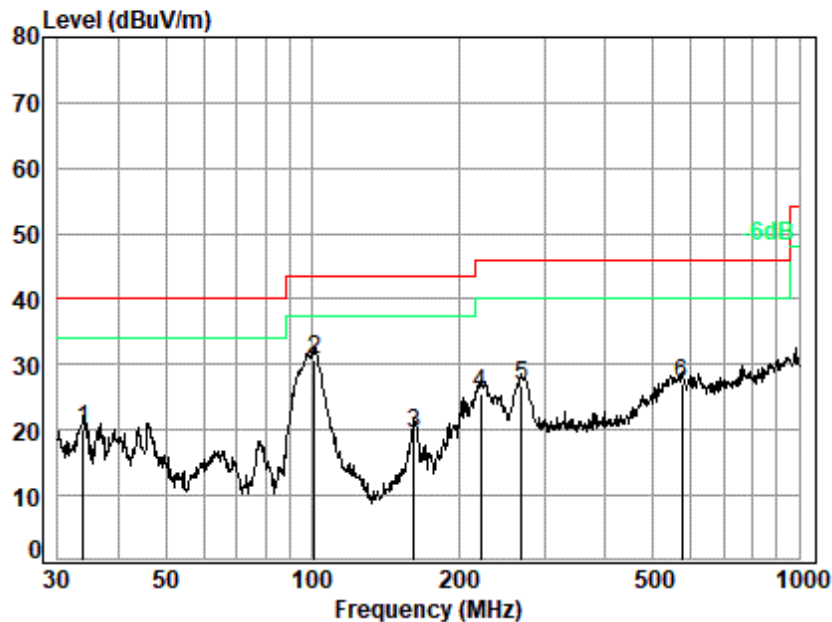


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00085WM
Test Mode: 27

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	33.799	19.52	0.72	27.78	22.85	15.31	40.00	-24.69 QP
2	101.644	12.33	1.23	27.58	37.51	23.49	43.50	-20.01 QP
3	162.611	13.38	1.60	27.33	29.13	16.78	43.50	-26.72 QP
4	226.099	15.89	1.89	27.06	38.91	29.63	46.00	-16.37 QP
5 q	271.325	17.09	2.09	26.87	38.28	30.59	46.00	-15.41 QP
6	919.287	28.17	4.17	26.63	23.59	29.30	46.00	-16.70 QP



Test Mode: 27; Polarity: Vertical

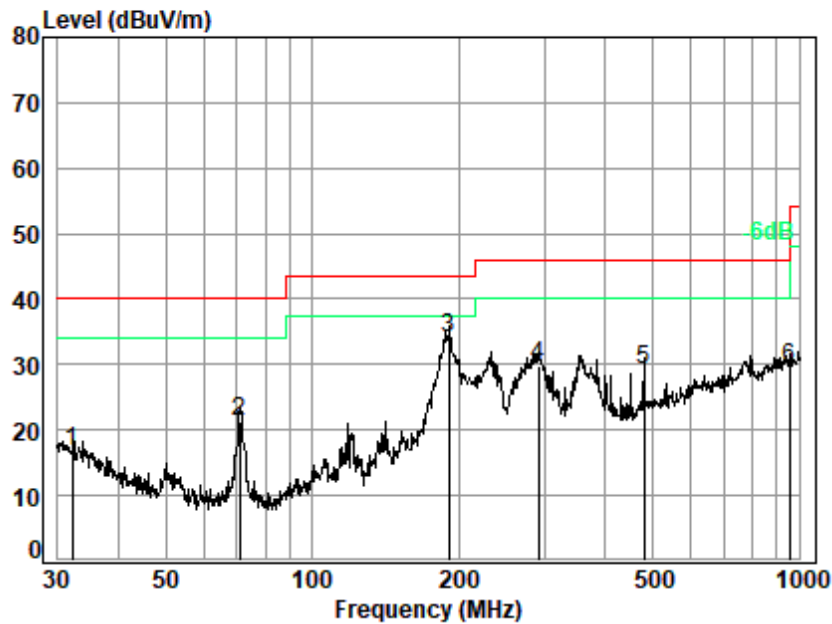


Site : chamber
Condition: 3m VERTICAL
Job No. : 00085WM
Test Mode: 27

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	33.799	19.52	0.72	27.78	27.75	20.21	40.00	-19.79 QP
2 q	100.934	12.33	1.23	27.59	44.71	30.68	43.50	-12.82 QP
3	162.041	13.44	1.60	27.33	31.75	19.46	43.50	-24.04 QP
4	221.392	15.31	1.87	27.08	35.53	25.63	46.00	-20.37 QP
5	269.428	17.10	2.08	26.88	34.34	26.64	46.00	-19.36 QP
6	574.626	23.80	3.16	27.87	27.95	27.04	46.00	-18.96 QP



Test Mode: 28; Polarity: Horizontal

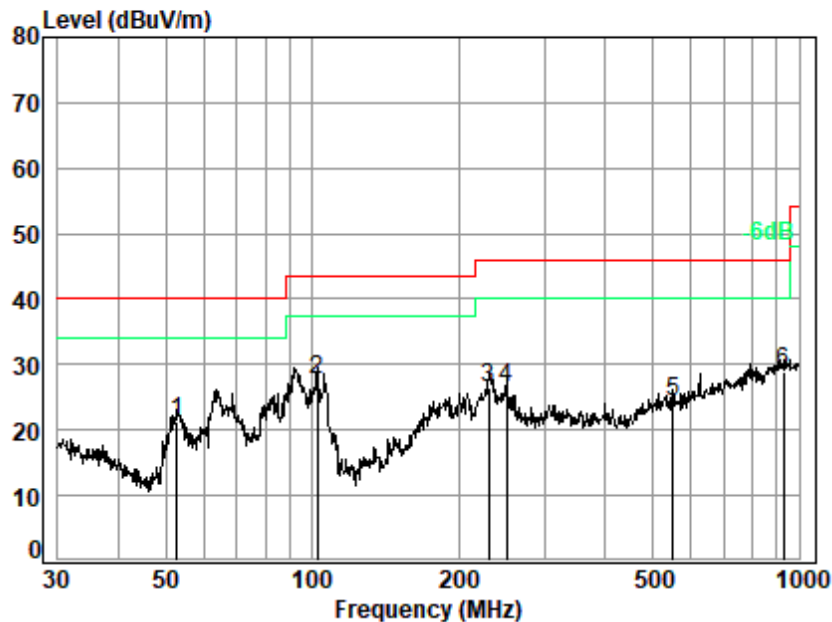


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00085WM
Test Mode: 28

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.179	20.20	0.70	27.79	23.59	16.70	40.00	-23.30 QP
2	71.080	10.55	1.03	27.67	37.38	21.29	40.00	-18.71 QP
3 q	191.074	14.28	1.72	27.21	45.23	34.02	43.50	-9.48 QP
4	291.036	17.12	2.17	26.79	37.39	29.89	46.00	-16.11 QP
5	480.528	22.75	2.86	27.48	30.96	29.09	46.00	-16.91 QP
6	955.438	28.10	4.27	26.37	23.50	29.50	46.00	-16.50 QP



Test Mode: 28; Polarity: Vertical

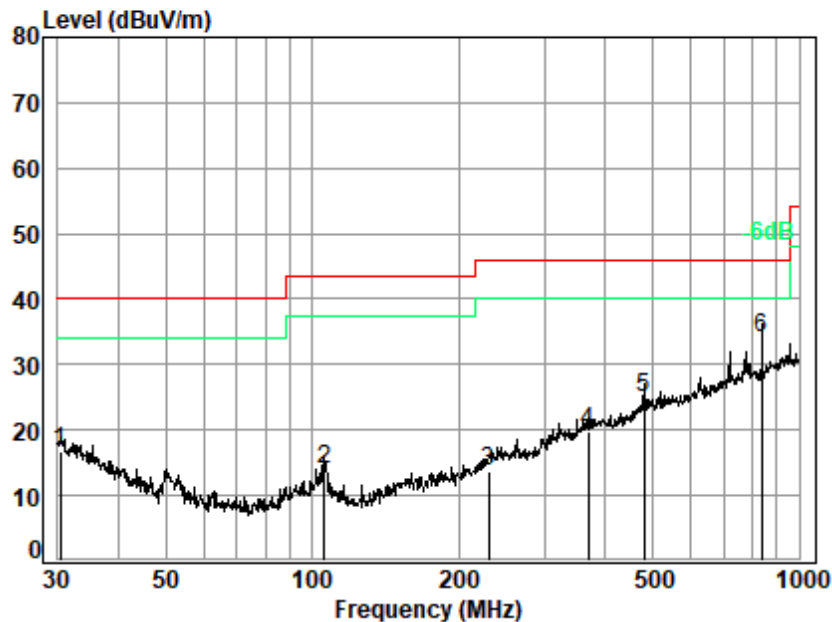


Site : chamber
Condition: 3m VERTICAL
Job No. : 00085WM
Test Mode: 28

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	52.760	12.33	0.89	27.73	35.78	21.27	40.00	-18.73	QP
2 q	102.360	12.31	1.24	27.58	41.61	27.58	43.50	-15.92	QP
3	230.099	16.46	1.91	27.04	35.20	26.53	46.00	-19.47	QP
4	250.301	17.24	2.00	26.96	34.15	26.43	46.00	-19.57	QP
5	550.948	23.78	3.09	27.77	25.15	24.25	46.00	-21.75	QP
6	929.008	28.16	4.20	26.56	22.98	28.78	46.00	-17.22	QP



Test Mode: 30; Polarity: Horizontal

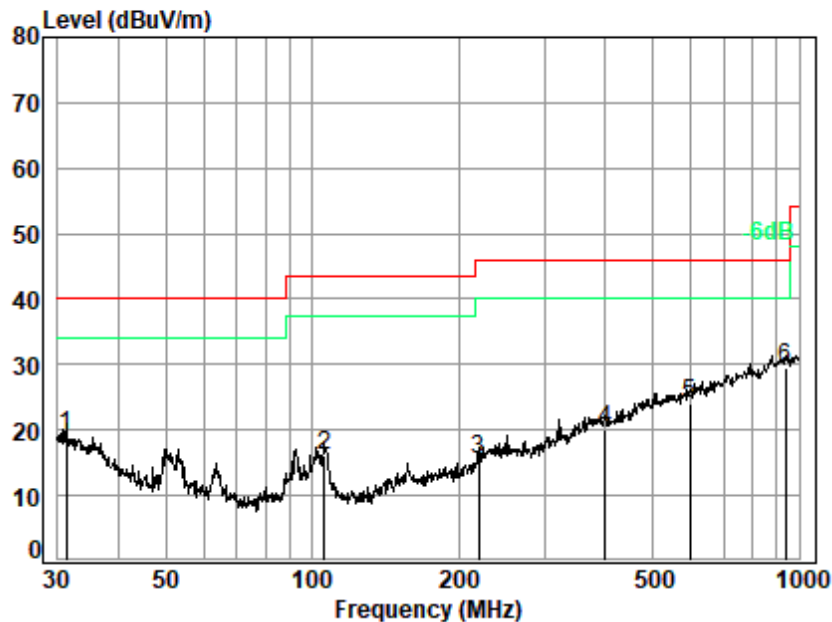


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00085WM
Test Mode: 30

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.317	21.05	0.67	27.79	22.84	16.77	40.00	-23.23 QP
2	106.013	12.18	1.27	27.56	27.98	13.87	43.50	-29.63 QP
3	230.099	16.46	1.91	27.04	22.40	13.73	46.00	-32.27 QP
4	369.405	20.41	2.47	27.03	23.95	19.80	46.00	-26.20 QP
5	480.528	22.75	2.86	27.48	26.85	24.98	46.00	-21.02 QP
6 q	839.182	26.53	3.97	27.20	30.89	34.19	46.00	-11.81 QP



Test Mode: 30; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00085WM
Test Mode: 30

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level	Limit	Over	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.289	20.60	0.69	27.79	25.51	19.01	40.00	-20.99 QP
2	106.013	12.18	1.27	27.56	30.16	16.05	43.50	-27.45 QP
3	219.845	15.14	1.86	27.09	25.56	15.47	46.00	-30.53 QP
4	399.030	20.63	2.58	27.15	24.16	20.22	46.00	-25.78 QP
5	597.223	24.44	3.23	27.96	24.43	24.14	46.00	-21.86 QP
6 q	938.833	28.15	4.22	26.49	23.54	29.42	46.00	-16.58 QP



6.3 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average at 3m distance
83.54(dBμV/m) peak, 63.54(dBμV/m) average at 1m distance

Detector: Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 40GHz

6.3.1 E.U.T. Operation

Operating Environment:

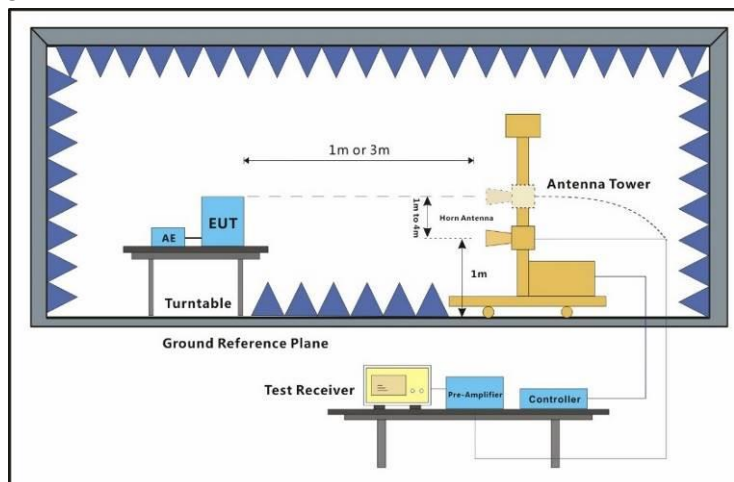
Temperature: 20.4 °C Humidity: 35.9 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	22	Normal Operation: UC13US adapter Charge+Front Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Pre-scan	23	Normal Operation: UC13US adapter Charge+Rear Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Pre-scan	24	Normal Operation: UC13US adapter Charge+Play MP4+earphone +BT+WIFI+NFC+WWAN idle+FM
Final test	25	Normal Operation: QC13US adapter Charge+Front Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Pre-scan	26	Normal Operation: QC13US adapter Charge+Rear Camera+earphone +BT+WIFI+NFC+WWAN idle+FM
Final test	27	Normal Operation: QC13US adapter Charge+Play MP4+earphone +BT+WIFI+NFC+WWAN idle+FM
Final test	28	Normal Operation: Data exchange between PC and EUT
Pre-scan	29	Normal Operation: EUT USB Type C charge other device
Pre-scan	30	Normal Operation: EUT OTG mode(read data from USB disk)



6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and 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.

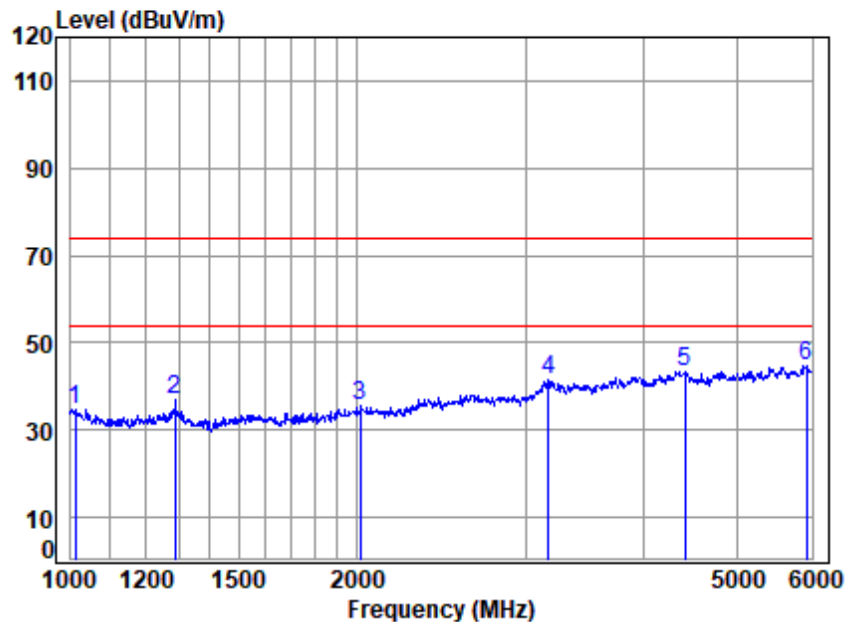
The red line show in graphic is the limit in standard used in this section.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

For frequency above 6GHz, no emission was found, so it's not recorded in the report.



Test Mode: 22; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00085WM
Mode : 22

	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	1010.809	5.92	25.95	54.60	57.59	34.86	74.00	-39.14	Peak
2	1287.417	5.29	24.88	54.71	61.34	36.80	74.00	-37.20	Peak
3	2014.917	5.07	28.86	54.90	56.46	35.49	74.00	-38.51	Peak
4	3176.198	6.07	32.71	54.86	57.45	41.37	74.00	-32.63	Peak
5	4416.593	7.08	34.60	54.26	56.06	43.48	74.00	-30.52	Peak
6 p	5914.609	8.69	34.63	53.19	54.52	44.65	74.00	-29.35	Peak



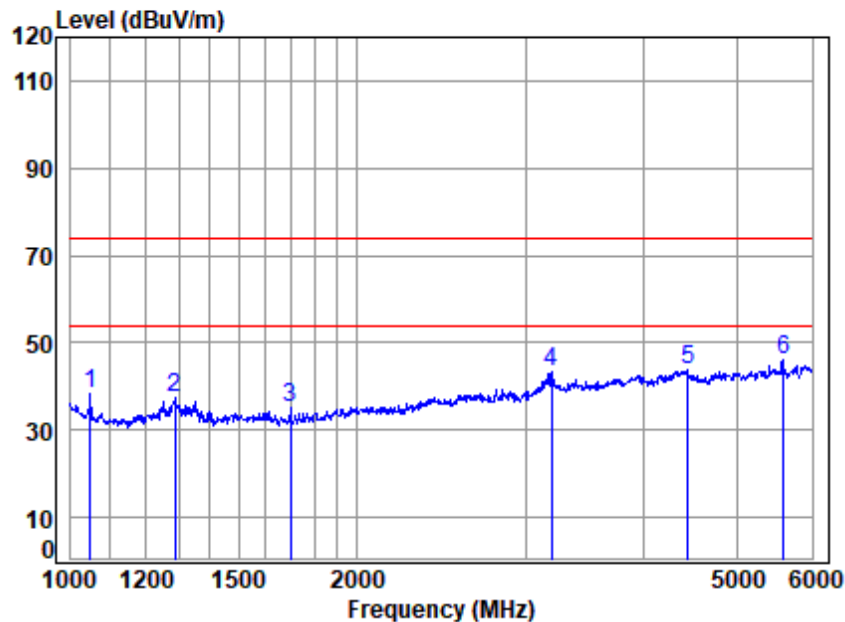
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Test Mode: 22; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00085WM
Mode : 22

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1049.567	5.82	24.71	54.62	62.51	38.42	74.00	-35.58	Peak
2	1287.417	5.29	24.88	54.71	62.05	37.51	74.00	-36.49	Peak
3	1702.593	4.96	26.23	54.83	58.75	35.11	74.00	-38.89	Peak
4	3193.317	6.08	32.85	54.85	59.16	43.24	74.00	-30.76	Peak
5	4440.397	7.10	34.32	54.25	56.45	43.62	74.00	-30.38	Peak
6 p	5595.042	8.39	34.70	53.52	56.57	46.14	74.00	-27.86	Peak



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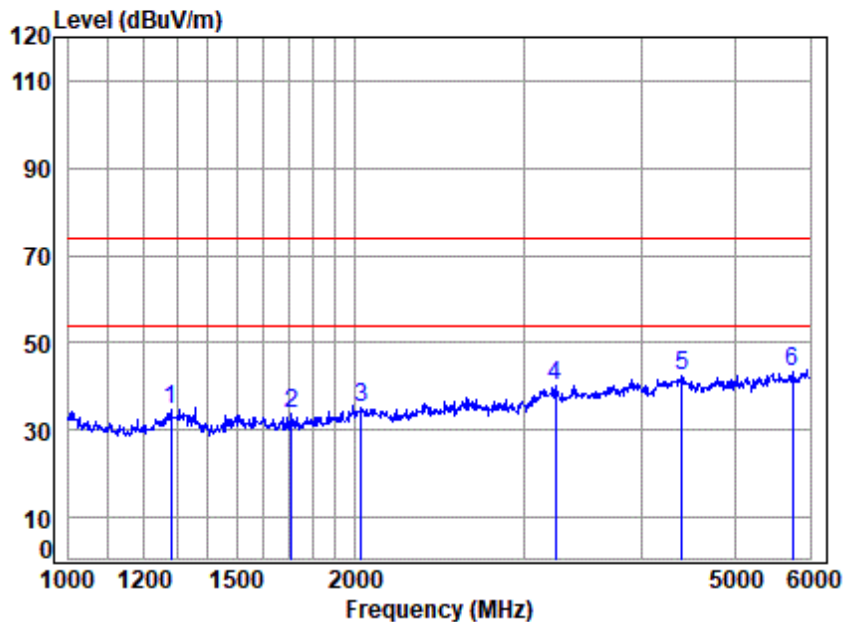
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Test Mode: 25; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00085WM
Mode : 25

	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	1280.516	5.30	24.92	54.71	59.27	34.78	74.00	-39.22	Peak
2	1711.770	4.97	26.34	54.83	57.26	33.74	74.00	-40.26	Peak
3	2025.777	5.08	28.90	54.90	55.98	35.06	74.00	-38.94	Peak
4	3239.420	6.11	32.27	54.81	56.52	40.09	74.00	-33.91	Peak
5	4400.794	7.07	34.79	54.26	54.77	42.37	74.00	-31.63	Peak
6 p	5747.456	8.54	34.21	53.36	54.14	43.53	74.00	-30.47	Peak



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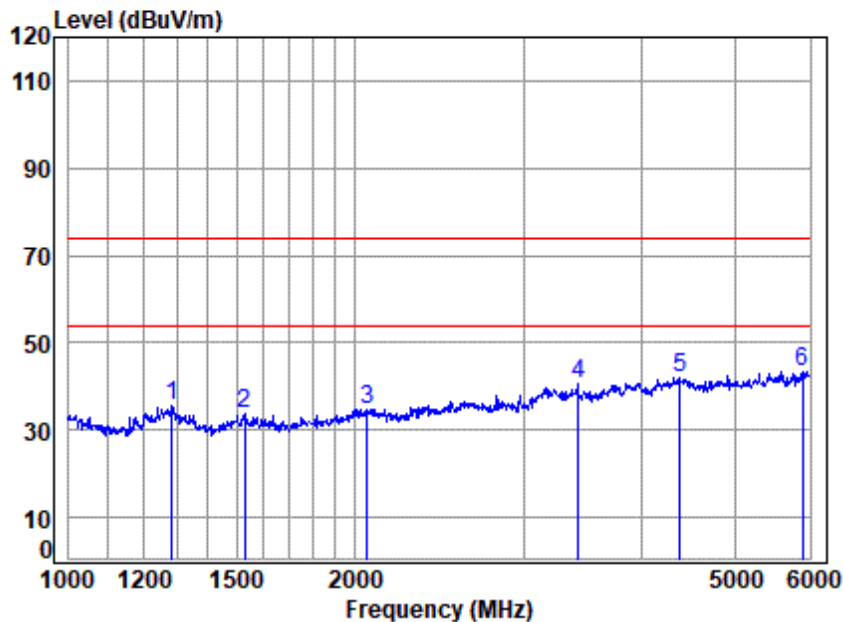
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Test Mode: 25; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00085WM
Mode : 25

	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	1282.812	5.30	24.90	54.71	59.88	35.37	74.00	-38.63	Peak
2	1529.051	4.90	26.92	54.78	56.94	33.98	74.00	-40.02	Peak
3	2055.023	5.11	28.98	54.91	55.69	34.87	74.00	-39.13	Peak
4	3424.443	6.23	32.11	54.68	56.76	40.42	74.00	-33.58	Peak
5	4377.203	7.05	34.62	54.26	54.76	42.17	74.00	-31.83	Peak
6 p	5893.452	8.67	34.57	53.21	53.48	43.51	74.00	-30.49	Peak



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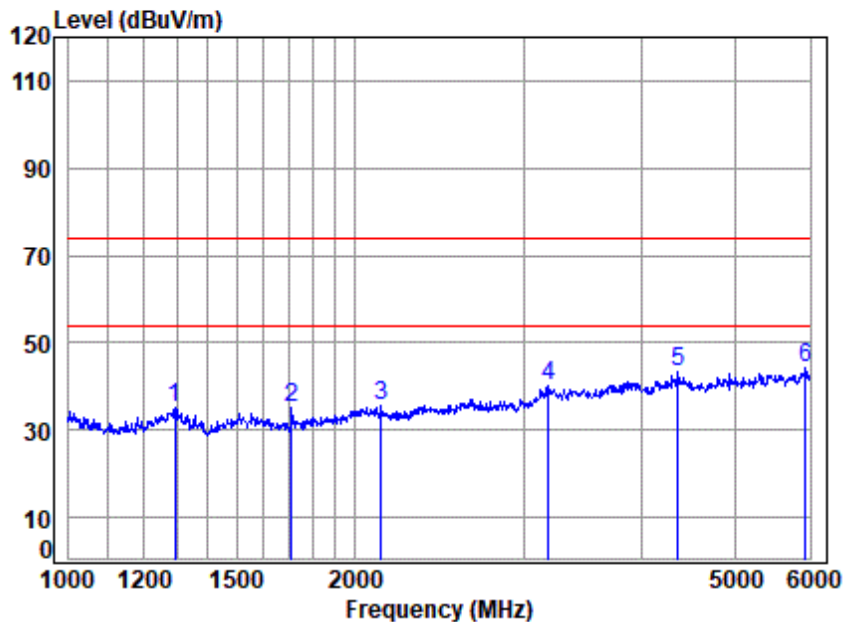
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Test Mode: 27; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00085WM
Mode : 27

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1292.039	5.28	24.85	54.71	59.49	34.91	74.00	-39.09	Peak
2	1714.840	4.97	26.38	54.83	58.84	35.36	74.00	-38.64	Peak
3	2130.001	5.17	28.44	54.92	56.77	35.46	74.00	-38.54	Peak
4	3187.600	6.08	32.80	54.85	56.27	40.30	74.00	-33.70	Peak
5	4361.545	7.04	34.49	54.26	55.86	43.13	74.00	-30.87	Peak
6 p	5935.842	8.71	34.67	53.16	53.87	44.09	74.00	-29.91	Peak



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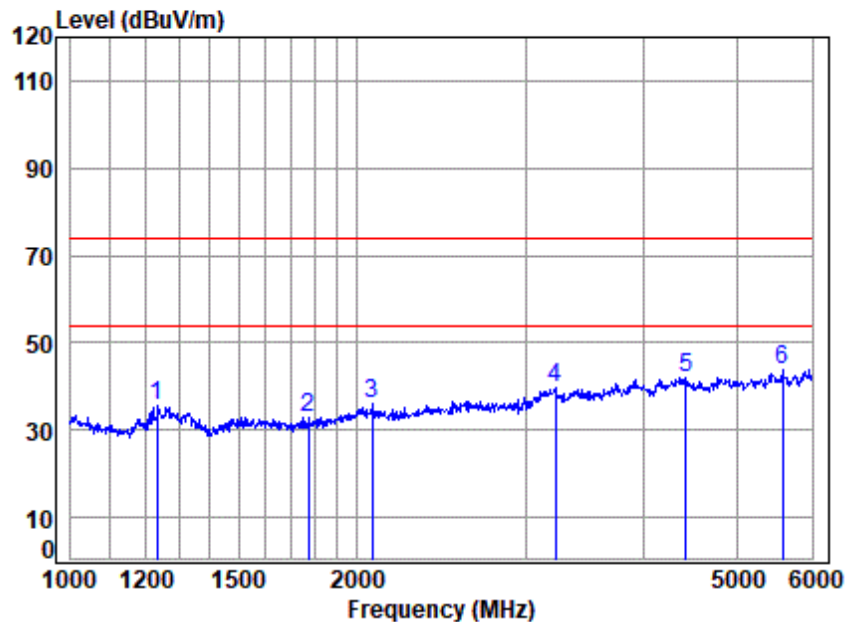
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Test Mode: 27; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00085WM
Mode : 27

	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	1233.229	5.40	24.87	54.69	60.10	35.68	74.00	-38.32	Peak
2	1777.406	4.99	26.91	54.85	55.99	33.04	74.00	-40.96	Peak
3	2069.805	5.12	28.92	54.91	56.73	35.86	74.00	-38.14	Peak
4	3227.832	6.11	32.45	54.82	55.94	39.68	74.00	-34.32	Peak
5	4424.514	7.09	34.51	54.25	54.56	41.91	74.00	-32.09	Peak
6 p	5585.026	8.38	34.70	53.53	54.21	43.76	74.00	-30.24	Peak



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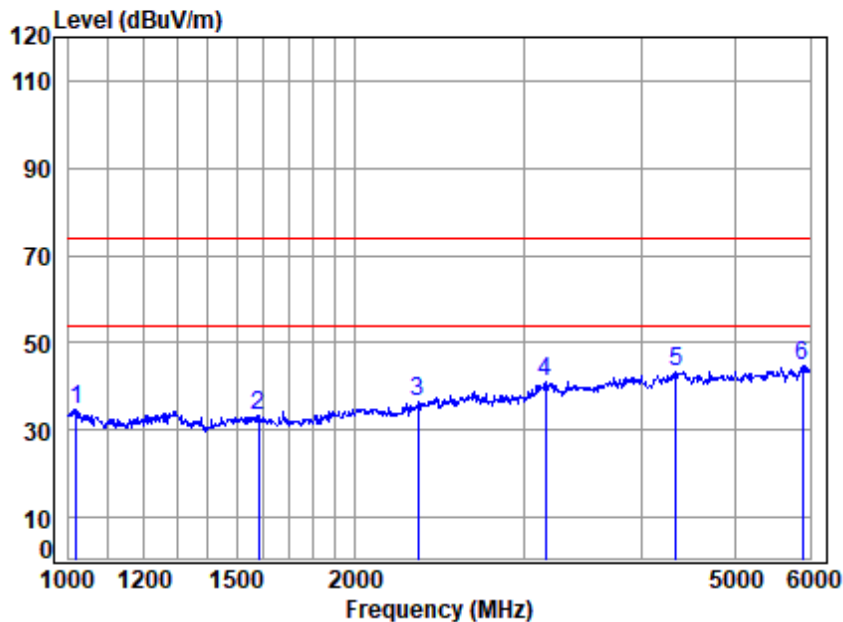
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Test Mode: 28; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00085WM
Mode : 28

	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	1018.079	5.90	25.72	54.61	57.89	34.90	74.00	-39.10	Peak
2	1582.001	4.92	26.87	54.80	56.38	33.37	74.00	-40.63	Peak
3	2325.462	5.32	28.76	54.94	57.56	36.70	74.00	-37.30	Peak
4	3164.836	6.06	32.62	54.87	57.04	40.85	74.00	-33.15	Peak
5	4338.163	7.02	34.31	54.26	56.46	43.53	74.00	-30.47	Peak
6 p	5893.452	8.67	34.57	53.21	54.64	44.67	74.00	-29.33	Peak



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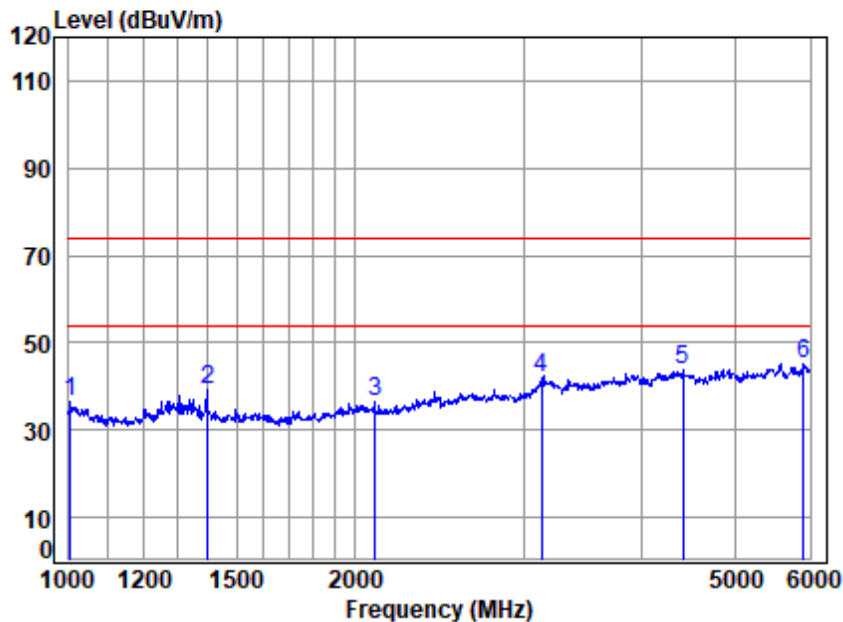
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Test Mode: 28; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00085WM
Mode : 28

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1003.590	5.94	26.19	54.60	58.82	36.35	74.00	-37.65	Peak
2	1398.023	5.07	24.60	54.75	64.45	39.37	74.00	-34.63	Peak
3	2095.928	5.14	28.82	54.91	57.60	36.65	74.00	-37.35	Peak
4	3136.610	6.05	32.26	54.89	58.77	42.19	74.00	-31.81	Peak
5	4416.593	7.08	34.60	54.26	56.19	43.61	74.00	-30.39	Peak
6 p	5904.021	8.68	34.61	53.20	55.04	45.13	74.00	-28.87	Peak



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7 Test Setup Photo

Refer to Appendix A.1– Part 15B Test Setup Photo for SZCR2501000085WM



8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2501000085WM

- End of the Report -

