

TEST REPORT

Application No.: SZCR2512005422WM
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
Equipment Under Test (EUT):
EUT Description: GSM/UMTS/LTE/NR Mobile phone
Model No.: T524J
FCC ID: 2ACCJH202
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2025-12-08
Date of Test: 2025-12-15 to 2025-12-20
Date of Issue: 2026-01-20

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

Kenx. Xu

Kenx Xu
EMC Laboratory Manager



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Shenzhen Branch (EMC Laboratory)

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-01-20		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 +C63.4a-2017	15.107(a);Class B	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.4-2014 +C63.4a-2017	15.109(a);Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4-2014 +C63.4a-2017	15.109(g);Class B	Pass



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4 General Information

4.1 Details of E.U.T.

EUT Description:	GSM/UMTS/LTE/NR Mobile phone
Model No.:	T524J
Hardware Version:	07
Software Version:	BZS8
Power supply:	DC3.91V by Li-ion battery(5000mAh) Battery 1 M/N: TLp050C7 Battery Manufacturer:Dongguan Veken Battery Co.,Ltd. Battery 2 M/N: TLp050C9 Battery Manufacturer: Guangdong fenghua NEW energy Co.,Ltd.
Cable(s):	USB Type C cable: 0.8m shielded cable without ferrite core

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 Test modes

Pretest these modes to find the worst case and show the worse data in the test items:	13	Normal Operation: Charge+Front Camera+earphone+BT+WIFI +GSM850
	idle+FM	
	14	Normal Operation: Charge+Rear Camera+earphone+BT+WIFI+WCDMA
	B5 idle +FM	
	15	Normal Operation: Charge+Play MP4+earphone+BT+WIFI+LTE B12
	idle+FM	
	16	Normal Operation: Data exchange between PC and EUT+NR n5 idle
	17	Normal Operation: EUT USB Type C charge other device
	18	Normal Operation: EUT OTG mode(read data from USB disk)



4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Nokia	AD-18WC	REF. No.SEA05J01A
Earphone	SONY	MDR-EX15LP	REF. No.SEA10A00
Laptop	Lenovo	L480	REF. No.SEA18C01F
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A01
Router	NETGEAR	DGN2200	REF. No.SEA22A00
U-Disk	Sandisk	SDCZ60-016G	REF. No.SEA01A00
U-Disk	SAMSUNG	DB	REF. No.SEA05A00

4.4 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.

4.5 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.6 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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-12-15	2026-12-14
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

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	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04



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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	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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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 +C63.4a-2017
 Test Engineer: Mason Wu

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

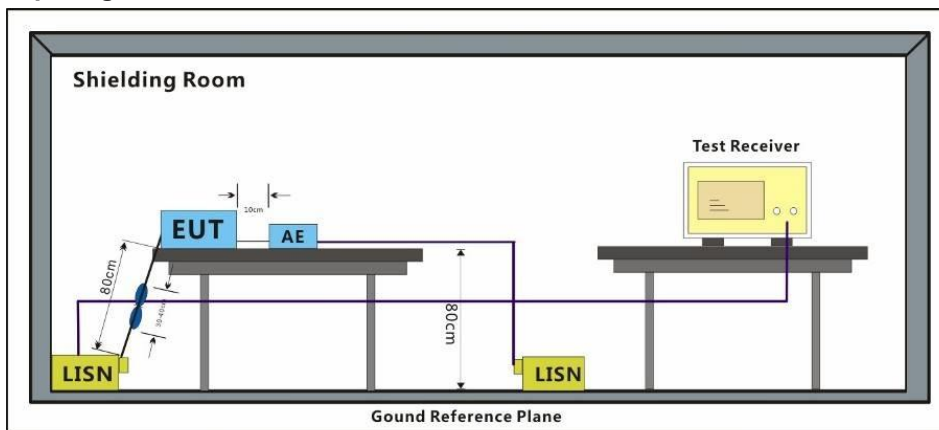
6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.4 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal Operation: Charge+Front Camera+earphone+BT+WIFI +GSM850 idle+FM
Final test	14	Normal Operation: Charge+Rear Camera+earphone+BT+WIFI+WCDMA B5 idle+FM
Final test	15	Normal Operation: Charge+Play MP4+earphone+BT+WIFI+LTE B12 idle+FM

6.1.3 Test Setup Diagram



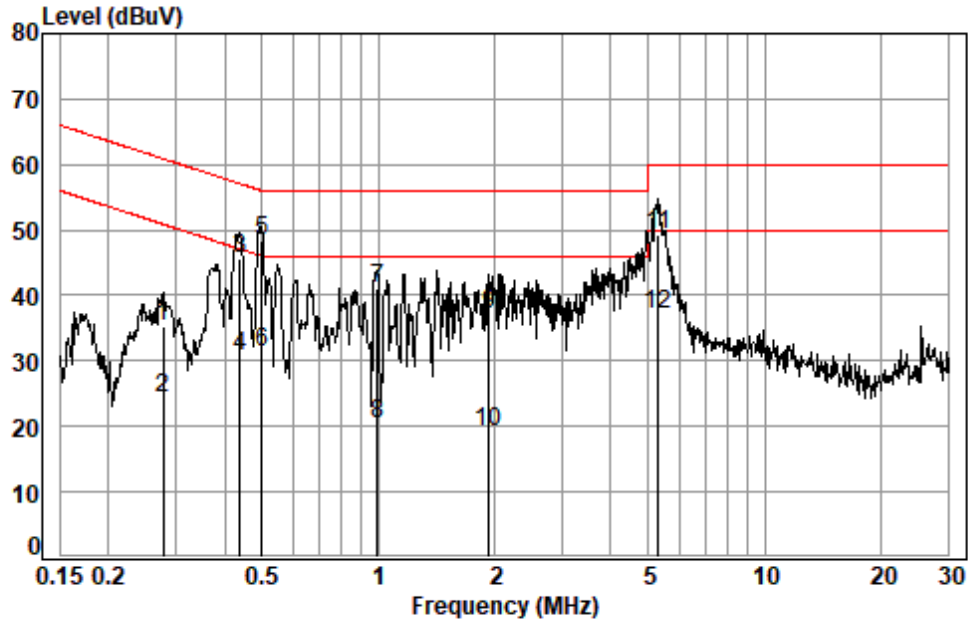
6.1.4 Measurement Procedure and Data

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



Test Mode: 13; Line: Live line

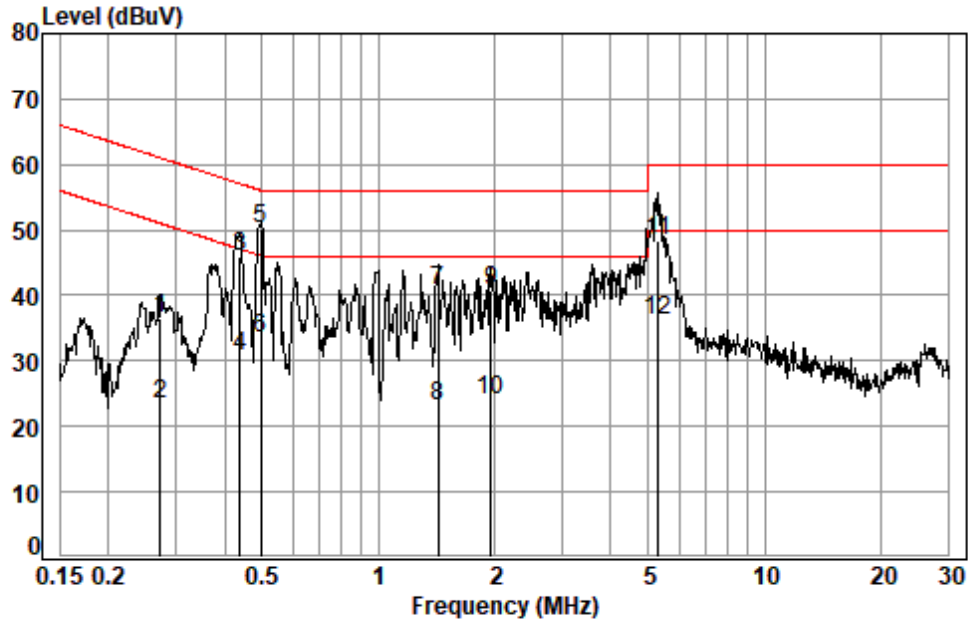


Site : Shielding Room
Condition: Line
Job No. : 05422WM/05423WM
Test mode: 13

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2773	0.08	9.90	25.33	35.31	60.90	-25.59	QP
2	0.2773	0.08	9.90	14.38	24.36	50.90	-26.54	Average
3	0.4374	0.09	9.62	35.94	45.65	57.11	-11.46	QP
4	0.4374	0.09	9.62	20.98	30.69	47.11	-16.42	Average
5 *	0.4994	0.09	9.54	38.76	48.39	56.01	-7.62	QP
6	0.4994	0.09	9.54	21.58	31.21	46.01	-14.80	Average
7	0.9944	0.11	9.58	31.33	41.02	56.00	-14.98	QP
8	0.9944	0.11	9.58	10.63	20.32	46.00	-25.68	Average
9	1.9386	0.12	9.58	27.39	37.09	56.00	-18.91	QP
10	1.9386	0.12	9.58	9.32	19.02	46.00	-26.98	Average
11	5.3050	0.14	9.66	39.47	49.27	60.00	-10.73	QP
12 *	5.3050	0.14	9.66	27.26	37.06	50.00	-12.94	Average



Test Mode: 13; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05422WM/05423WM
Test mode: 13

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2730	0.08	9.84	26.54	36.46	61.03	-24.57	QP
2	0.2730	0.08	9.84	13.53	23.45	51.03	-27.58	Average
3	0.4374	0.09	9.73	36.07	45.89	57.11	-11.22	QP
4	0.4374	0.09	9.73	21.04	30.86	47.11	-16.25	Average
5 *	0.4967	0.09	9.71	40.28	50.08	56.05	-5.97	QP
6 *	0.4967	0.09	9.71	23.77	33.57	46.05	-12.48	Average
7	1.4333	0.12	9.55	30.94	40.61	56.00	-15.39	QP
8	1.4333	0.12	9.55	13.34	23.01	46.00	-22.99	Average
9	1.9593	0.12	9.55	31.00	40.67	56.00	-15.33	QP
10	1.9593	0.12	9.55	14.36	24.03	46.00	-21.97	Average
11	5.3050	0.14	9.58	38.55	48.27	60.00	-11.73	QP
12	5.3050	0.14	9.58	26.47	36.19	50.00	-13.81	Average



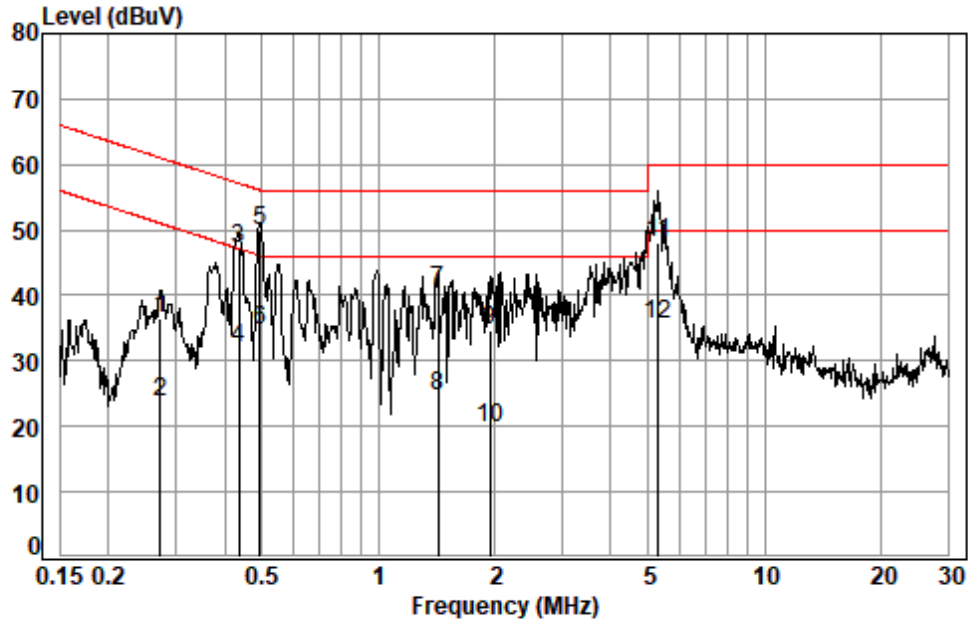
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Test Mode: 14; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 05422WM/05423WM
Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2730	0.08	9.91	26.56	36.55	61.03	-24.48	QP
2	0.2730	0.08	9.91	13.69	23.68	51.03	-27.35	Average
3	0.4351	0.09	9.62	37.32	47.03	57.15	-10.12	QP
4	0.4351	0.09	9.62	22.27	31.98	47.15	-15.17	Average
5 *	0.4941	0.09	9.55	40.35	49.99	56.10	-6.11	QP
6 *	0.4941	0.09	9.55	25.09	34.73	46.10	-11.37	Average
7	1.4257	0.12	9.58	31.16	40.86	56.00	-15.14	QP
8	1.4257	0.12	9.58	14.82	24.52	46.00	-21.48	Average
9	1.9489	0.12	9.58	24.89	34.59	56.00	-21.41	QP
10	1.9489	0.12	9.58	9.94	19.64	46.00	-26.36	Average
11	5.3050	0.14	9.66	38.13	47.93	60.00	-12.07	QP
12	5.3050	0.14	9.66	25.92	35.72	50.00	-14.28	Average



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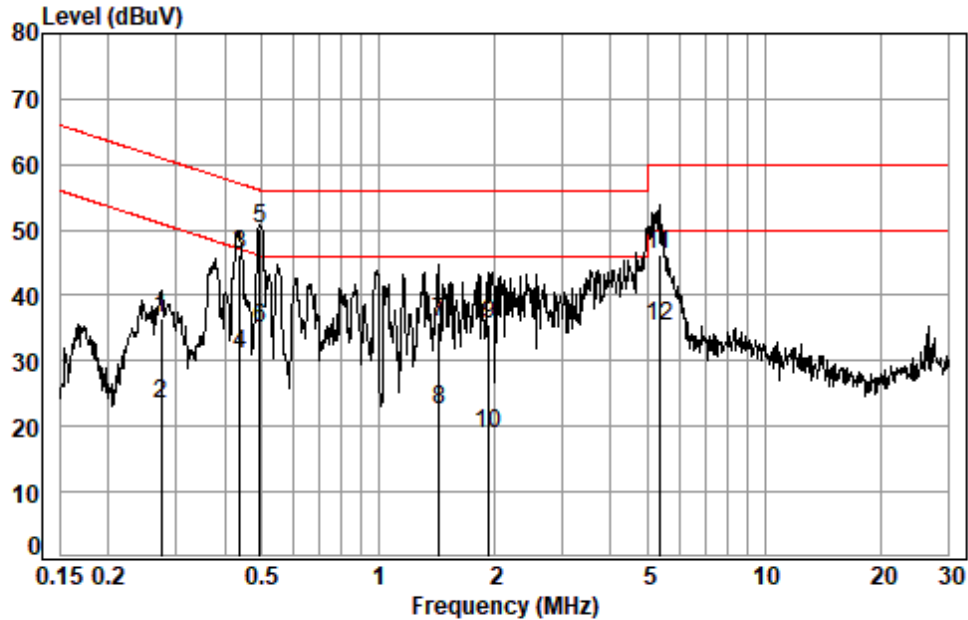
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Test Mode: 14; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05422WM/05423WM
Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2744	0.08	9.84	26.72	36.64	60.98	-24.34	QP
2	0.2744	0.08	9.84	13.61	23.53	50.98	-27.45	Average
3	0.4374	0.09	9.73	36.32	46.14	57.11	-10.97	QP
4	0.4374	0.09	9.73	21.15	30.97	47.11	-16.14	Average
5 *	0.4941	0.09	9.71	40.43	50.23	56.10	-5.87	QP
6 *	0.4941	0.09	9.71	25.24	35.04	46.10	-11.06	Average
7	1.4409	0.12	9.55	26.30	35.97	56.00	-20.03	QP
8	1.4409	0.12	9.55	12.98	22.65	46.00	-23.35	Average
9	1.9386	0.12	9.55	25.79	35.46	56.00	-20.54	QP
10	1.9386	0.12	9.55	9.20	18.87	46.00	-27.13	Average
11	5.3332	0.14	9.58	36.52	46.24	60.00	-13.76	QP
12	5.3332	0.14	9.58	25.52	35.24	50.00	-14.76	Average



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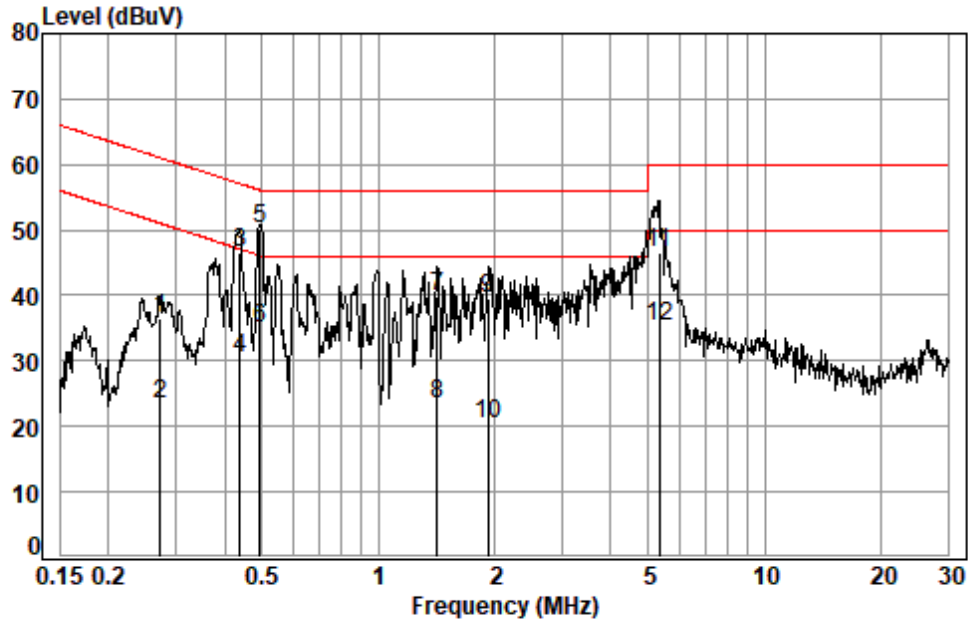
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test Mode: 15; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 05422WM/05423WM
Test mode: 15

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2730	0.08	9.91	26.52	36.51	61.03	-24.52	QP
2	0.2730	0.08	9.91	13.47	23.46	51.03	-27.57	Average
3	0.4397	0.09	9.62	36.70	46.41	57.07	-10.66	QP
4	0.4397	0.09	9.62	20.58	30.29	47.07	-16.78	Average
5 *	0.4941	0.09	9.55	40.49	50.13	56.10	-5.97	QP
6 *	0.4941	0.09	9.55	25.34	34.98	46.10	-11.12	Average
7	1.4182	0.12	9.58	30.21	39.91	56.00	-16.09	QP
8	1.4182	0.12	9.58	13.72	23.42	46.00	-22.58	Average
9	1.9284	0.12	9.58	29.71	39.41	56.00	-16.59	QP
10	1.9284	0.12	9.58	10.67	20.37	46.00	-25.63	Average
11	5.3332	0.14	9.66	36.60	46.40	60.00	-13.60	QP
12	5.3332	0.14	9.66	25.58	35.38	50.00	-14.62	Average



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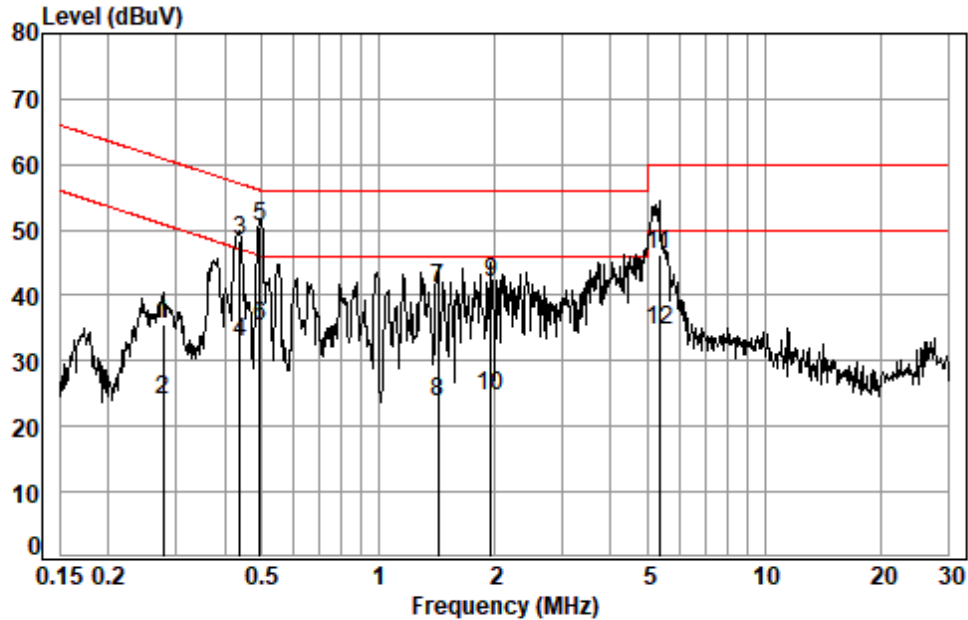
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Test Mode: 15; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05422WM/05423WM
Test mode: 15

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2773	0.08	9.83	25.79	35.70	60.90	-25.20	QP
2	0.2773	0.08	9.83	14.19	24.10	50.90	-26.80	Average
3	0.4374	0.09	9.73	38.49	48.31	57.11	-8.80	QP
4	0.4374	0.09	9.73	23.00	32.82	47.11	-14.29	Average
5 *	0.4941	0.09	9.71	40.55	50.35	56.10	-5.75	QP
6 *	0.4941	0.09	9.71	25.47	35.27	46.10	-10.83	Average
7	1.4333	0.12	9.55	31.33	41.00	56.00	-15.00	QP
8	1.4333	0.12	9.55	13.93	23.60	46.00	-22.40	Average
9	1.9593	0.12	9.55	32.27	41.94	56.00	-14.06	QP
10	1.9593	0.12	9.55	14.86	24.53	46.00	-21.47	Average
11	5.3332	0.14	9.58	36.52	46.24	60.00	-13.76	QP
12	5.3332	0.14	9.58	25.05	34.77	50.00	-15.23	Average



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4-2014 +C63.4a-2017
 Measurement Distance: 3m
 Test Engineer: Mason Wu

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:

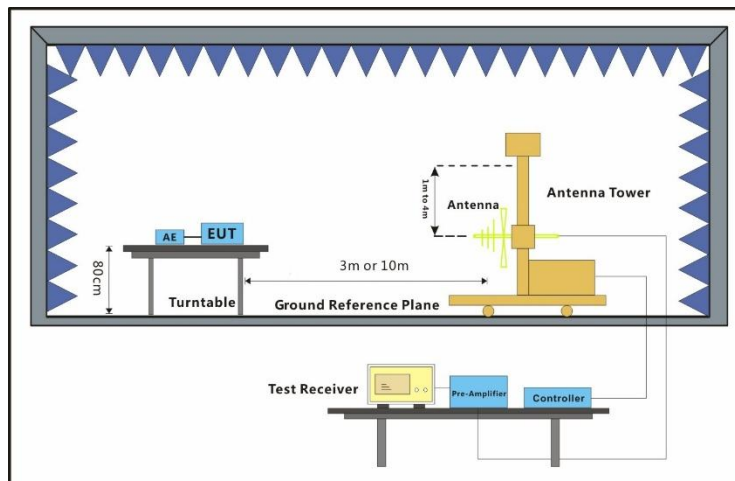
Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal Operation: Charge+Front Camera+earphone+BT+WIFI +GSM850 idle+FM
Pre-scan	14	Normal Operation: Charge+Rear Camera+earphone+BT+WIFI+WCDMA B5 idle +FM
Pre-scan	15	Normal Operation: Charge+Play MP4+earphone+BT+WIFI+LTE B12 idle+FM
Final test	16	Normal Operation: Data exchange between PC and EUT+NR n5 idle
Final test	17	Normal Operation: EUT USB Type C charge other device
Final test	18	Normal Operation: EUT OTG mode(read data from USB disk)



6.2.3 Test Setup Diagram



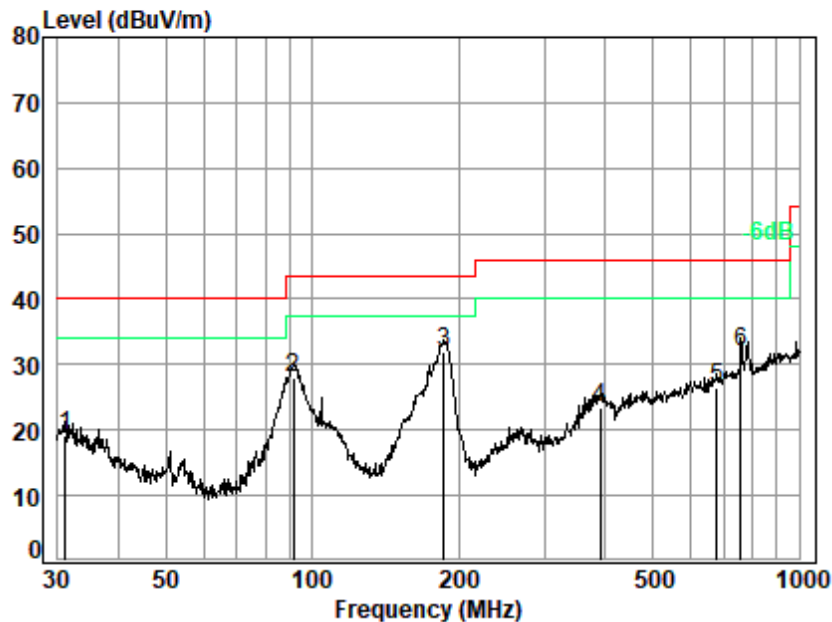
6.2.4 Measurement Procedure and Data

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: 13; Polarity: Horizontal

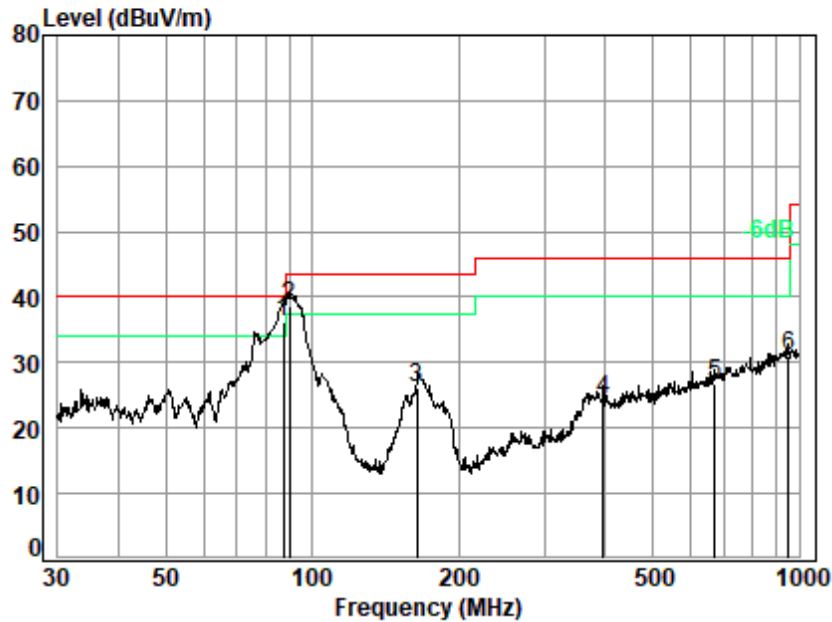


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05422WM
Test Mode: 13

	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	31.071	20.71	0.75	27.65	25.36	19.17	40.00	-20.83 QP
2	91.495	11.86	1.19	27.60	42.64	28.09	43.50	-15.41 QP
3 q	186.441	14.30	1.65	27.78	43.66	31.83	43.50	-11.67 QP
4	390.723	20.75	2.46	27.73	28.01	23.49	46.00	-22.51 QP
5	677.580	25.78	3.34	27.89	25.29	26.52	46.00	-19.48 QP
6	758.041	26.48	3.58	27.69	29.66	32.03	46.00	-13.97 QP



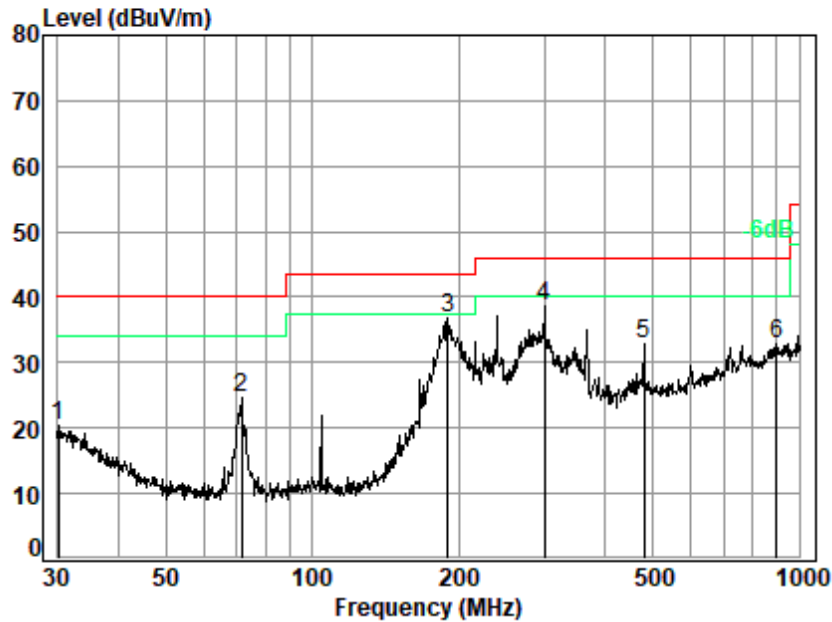
Test Mode: 13; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05422WM
Test Mode: 13

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	q	87.418	11.38	1.16	27.61	51.16	36.09	40.00 -3.91 QP
2		89.905	11.72	1.18	27.60	53.41	38.71	43.50 -4.79 QP
3		164.330	13.24	1.56	27.74	39.10	26.16	43.50 -17.34 QP
4		396.242	20.68	2.48	27.74	29.00	24.42	46.00 -21.58 QP
5		670.489	25.57	3.32	27.91	25.86	26.84	46.00 -19.16 QP
6		952.094	28.17	4.08	26.66	25.31	30.90	46.00 -15.10 QP

Test Mode: 16; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

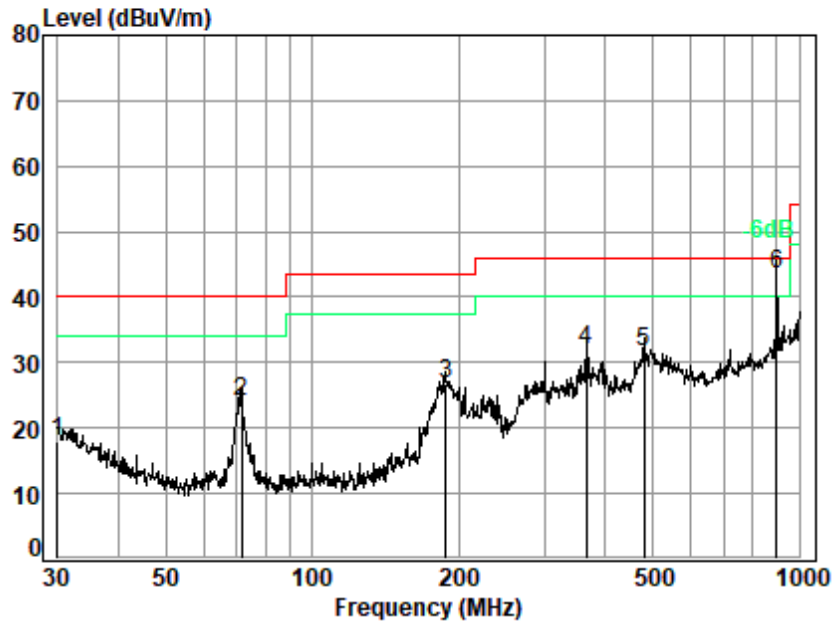
Job No. : 05422WM

Test Mode: 16

	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	0.74	27.65	26.05	20.29	40.00	-19.71
2	71.581	10.52	1.00	27.61	40.87	24.78	40.00	-15.22
3	189.739	14.30	1.66	27.78	48.65	36.83	43.50	-6.67
4	300.367	18.05	2.11	27.50	45.84	38.50	46.00	-7.50
5	480.528	22.75	2.75	27.91	35.12	32.71	46.00	-13.29
6	900.147	27.82	3.98	26.97	28.11	32.94	46.00	-13.06



Test Mode: 16; Polarity: Vertical

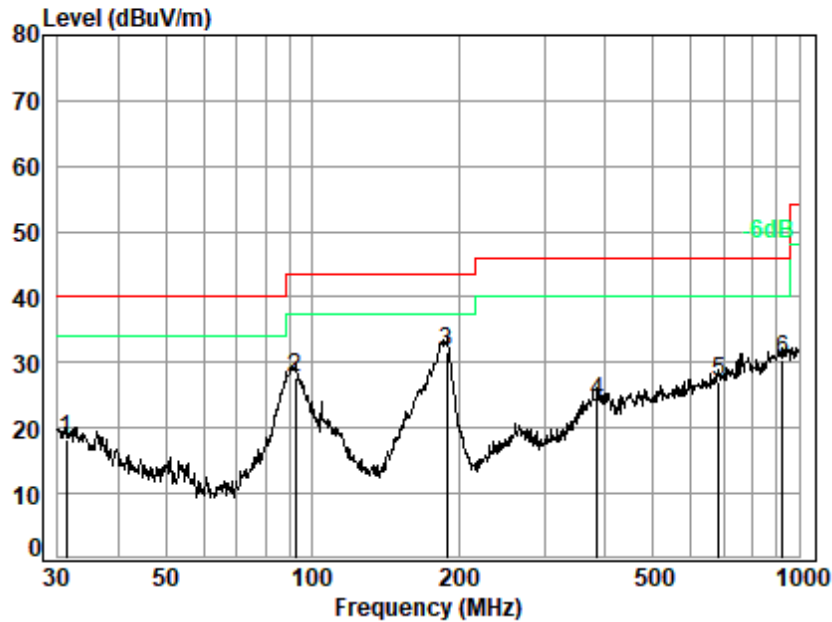


Site : chamber
Condition: 3m VERTICAL
Job No. : 05422WM
Test Mode: 16

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV dBuV/m	dBuV/m	dB	
1	30.000	21.20	0.74	27.65	23.80 18.09	40.00	-21.91	QP
2	71.581	10.52	1.00	27.61	40.21 24.12	40.00	-15.88	QP
3	187.753	14.30	1.66	27.78	38.53 26.71	43.50	-16.79	QP
4	365.539	20.31	2.37	27.67	36.85 31.86	46.00	-14.14	QP
5	480.528	22.75	2.75	27.91	34.06 31.65	46.00	-14.35	QP
6 q	900.147	27.82	3.98	26.97	38.65 43.48	46.00	-2.52	QP



Test Mode: 17; Polarity: Horizontal

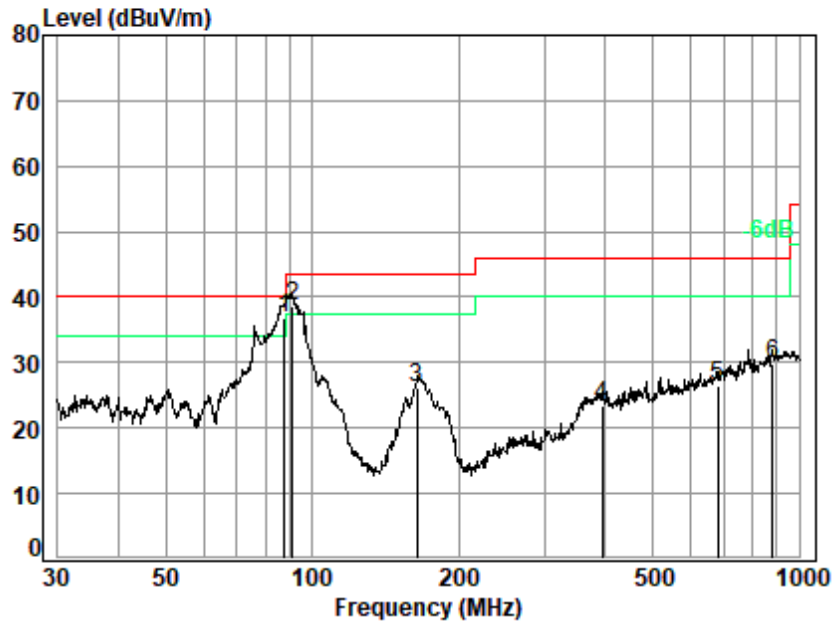


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05422WM
Test Mode: 17

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level	Limit	Over	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.180	20.65	0.75	27.65	24.43	18.18	40.00	-21.82 QP
2	92.462	11.94	1.19	27.60	42.19	27.72	43.50	-15.78 QP
3 q	189.074	14.29	1.66	27.78	43.52	31.69	43.50	-11.81 QP
4	385.281	20.89	2.44	27.72	28.56	24.17	46.00	-21.83 QP
5	684.745	25.75	3.37	27.87	25.68	26.93	46.00	-19.07 QP
6	925.756	28.18	4.03	26.81	24.98	30.38	46.00	-15.62 QP



Test Mode: 17; Polarity: Vertical

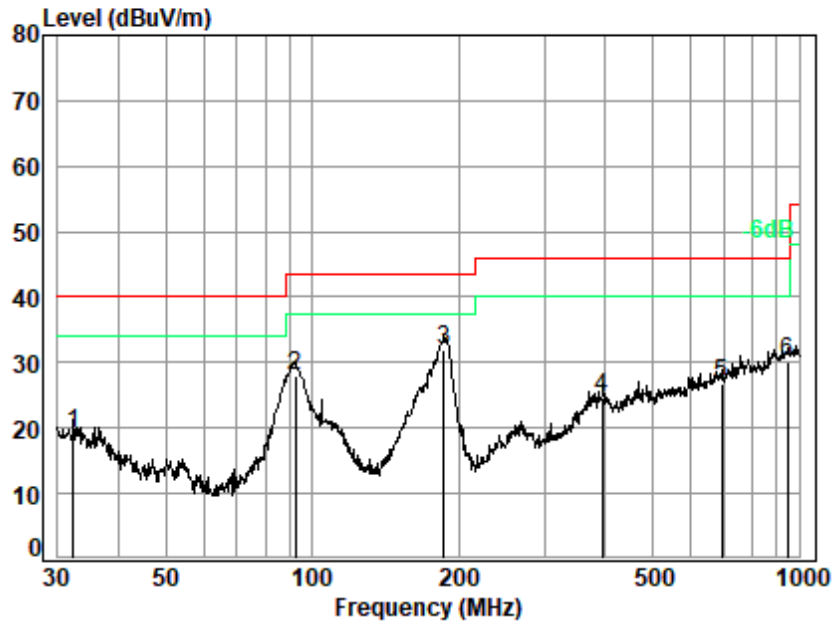


Site : chamber
Condition: 3m VERTICAL
Job No. : 05422WM
Test Mode: 17

		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	87.725	11.43	1.16	27.61	51.83	36.81	40.00	-3.19	QP
2	90.855	11.80	1.18	27.60	53.22	38.60	43.50	-4.90	QP
3	164.330	13.24	1.56	27.74	39.04	26.10	43.50	-17.40	QP
4	393.472	20.72	2.47	27.73	28.01	23.47	46.00	-22.53	QP
5	679.960	25.86	3.35	27.88	25.26	26.59	46.00	-19.41	QP
6	881.407	27.76	3.93	27.08	25.23	29.84	46.00	-16.16	QP



Test Mode: 18; Polarity: Horizontal

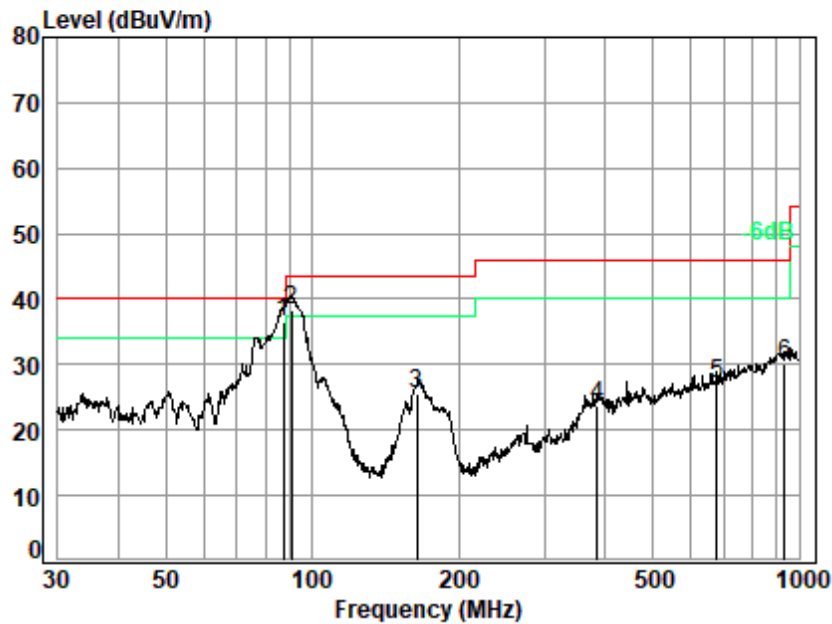


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05422WM
Test Mode: 18

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level dBuV	Limit dBuV/m	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB	
1	32.293	20.15	0.76	27.65	25.96	19.22	40.00	-20.78 QP
2	92.462	11.94	1.19	27.60	42.52	28.05	43.50	-15.45 QP
3 q	186.441	14.30	1.65	27.78	43.81	31.98	43.50	-11.52 QP
4	394.855	20.70	2.47	27.74	29.32	24.75	46.00	-21.25 QP
5	694.417	25.82	3.39	27.85	25.50	26.86	46.00	-19.14 QP
6	948.761	28.23	4.08	26.68	24.56	30.19	46.00	-15.81 QP



Test Mode: 18; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05422WM
Test Mode: 18

		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	87.112	11.33	1.16	27.61	51.70	36.58	40.00	-3.42	QP
2	90.537	11.77	1.18	27.60	53.13	38.48	43.50	-5.02	QP
3	164.330	13.24	1.56	27.74	38.59	25.65	43.50	-17.85	QP
4	385.281	20.89	2.44	27.72	28.01	23.62	46.00	-22.38	QP
5	677.580	25.78	3.34	27.89	25.71	26.94	46.00	-19.06	QP
6	935.546	28.18	4.05	26.76	24.55	30.02	46.00	-15.98	QP



6.3 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4-2014 +C63.4a-2017

Measurement Distance: 3m

Test Engineer: Tommy Luo

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: 21.3 °C

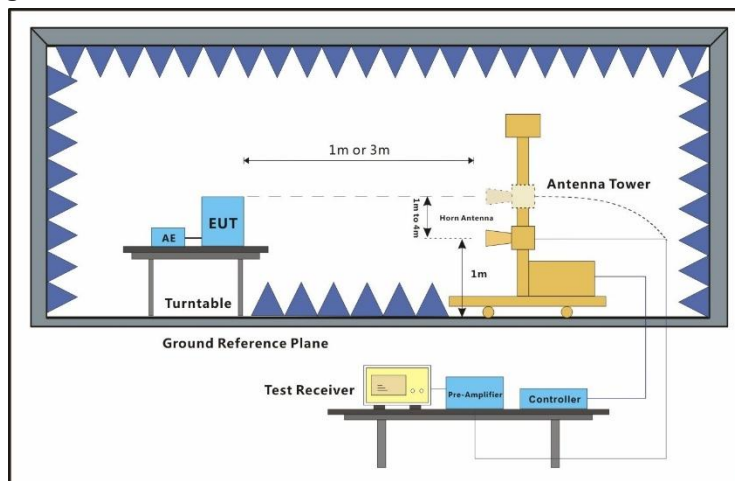
Humidity: 50.6 % RH

Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal Operation: Charge+Front Camera+earphone+BT+WIFI +GSM850 idle+FM
Pre-scan	14	Normal Operation: Charge+Rear Camera+earphone+BT+WIFI+WCDMA B5 idle +FM
Pre-scan	15	Normal Operation: Charge+Play MP4+earphone+BT+WIFI+LTE B12 idle+FM
Final test	16	Normal Operation: Data exchange between PC and EUT+NR n5 idle
Final test	17	Normal Operation: EUT USB Type C charge other device
Final test	18	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, the emission is the noise floor, so it's not recorded.



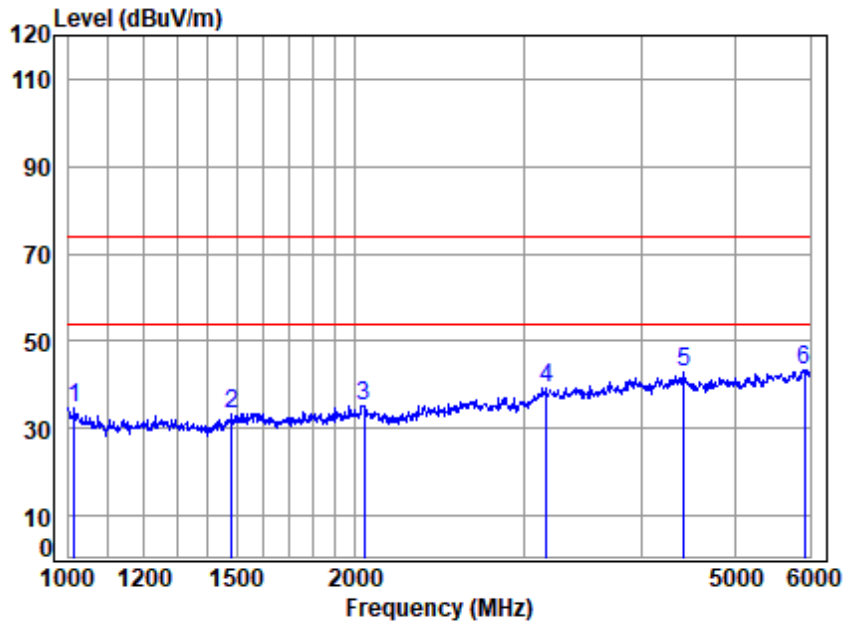
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Test Mode: 13; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05422WM/05423WM
Mode : 13

		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	1012.621	5.88	25.90	54.61	57.38	34.55	74.00	-39.45	Peak
2	1483.178	5.02	26.33	54.77	56.85	33.43	74.00	-40.57	Peak
3	2044.007	5.05	28.98	54.91	56.04	35.16	74.00	-38.84	Peak
4	3176.198	6.00	32.71	54.86	55.27	39.12	74.00	-34.88	Peak
5	4424.514	7.13	34.51	54.25	55.71	43.10	74.00	-30.90	Peak
6 p	5925.216	8.82	34.65	53.18	52.96	43.25	74.00	-30.75	Peak



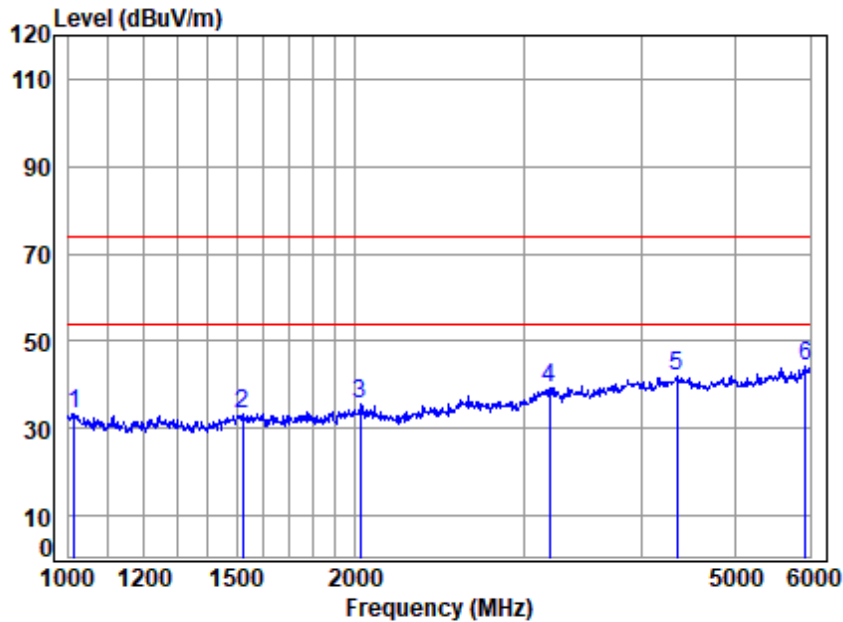
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Test Mode: 13; Polarity: Vertical

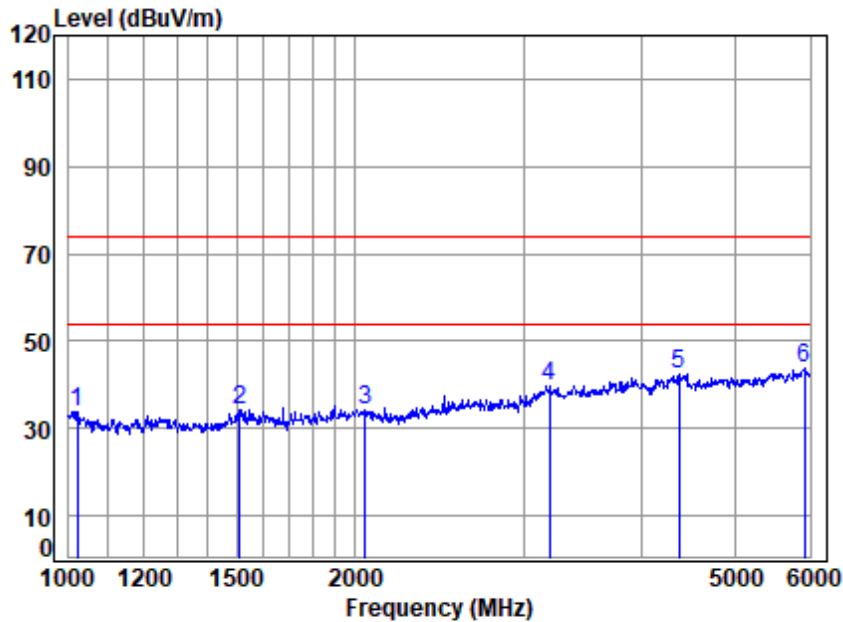


Site : chamber
Condition: 3m VERTICAL
Job No : 05422WM/05423WM
Mode : 13

		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	1012.621	5.88	25.90	54.61	56.27	33.44	74.00	-40.56	Peak
2	1520.854	4.99	26.88	54.78	56.41	33.50	74.00	-40.50	Peak
3	2022.150	5.03	28.89	54.90	56.51	35.53	74.00	-38.47	Peak
4	3193.317	6.01	32.85	54.85	55.42	39.43	74.00	-34.57	Peak
5	4353.737	7.09	34.43	54.26	54.87	42.13	74.00	-31.87	Peak
6 p	5935.842	8.83	34.67	53.16	53.88	44.22	74.00	-29.78	Peak



Test Mode: 16; Polarity: Horizontal

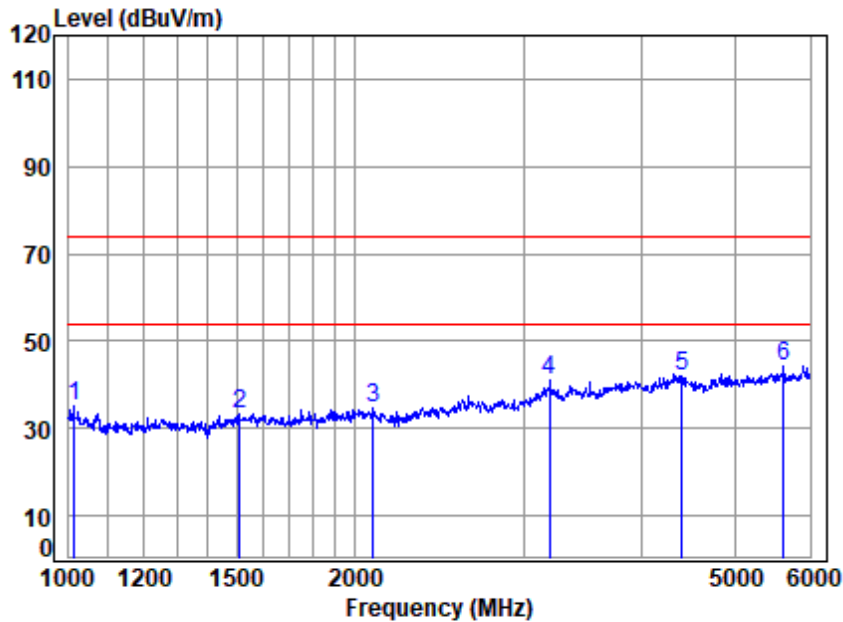


Site : chamber
Condition: 3m HORIZONTAL
Job No : 05422WM/05423WM
Mode : 16

		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	1019.905	5.87	25.66	54.61	56.96	33.88	74.00	-40.12	Peak
2	1512.700	4.99	26.85	54.78	57.35	34.41	74.00	-39.59	Peak
3	2047.672	5.05	28.99	54.91	55.09	34.22	74.00	-39.78	Peak
4	3193.317	6.01	32.85	54.85	55.90	39.91	74.00	-34.09	Peak
5	4369.367	7.10	34.55	54.26	54.84	42.23	74.00	-31.77	Peak
6 p	5914.609	8.80	34.63	53.19	53.74	43.98	74.00	-30.02	Peak



Test Mode: 16; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05422WM/05423WM
Mode : 16

	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	1012.621	5.88	25.90	54.61	57.78	34.95	74.00	-39.05	Peak
2	1509.992	4.99	26.84	54.78	56.30	33.35	74.00	-40.65	Peak
3	2088.431	5.09	28.85	54.91	55.59	34.62	74.00	-39.38	Peak
4	3199.044	6.02	32.89	54.84	56.97	41.04	74.00	-32.96	Peak
5	4400.794	7.12	34.79	54.26	54.51	42.16	74.00	-31.84	Peak
6 p	5625.198	8.36	34.55	53.49	54.64	44.06	74.00	-29.94	Peak



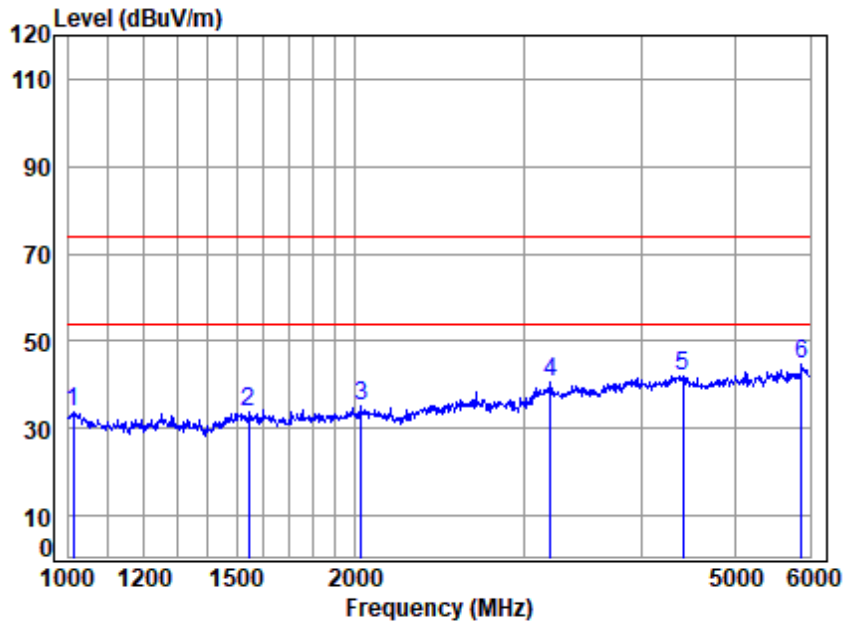
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Test Mode: 17; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05422WM/05423WM
Mode : 17

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1010.809	5.89	25.95	54.60	56.33	33.57	74.00	-40.43	Peak
2	1545.577	4.99	26.98	54.79	56.46	33.64	74.00	-40.36	Peak
3	2025.777	5.03	28.90	54.90	55.97	35.00	74.00	-39.00	Peak
4	3204.781	6.02	32.82	54.84	56.82	40.82	74.00	-33.18	Peak
5	4408.687	7.12	34.70	54.26	54.55	42.11	74.00	-31.89	Peak
6 p	5882.902	8.76	34.53	53.22	54.58	44.65	74.00	-29.35	Peak



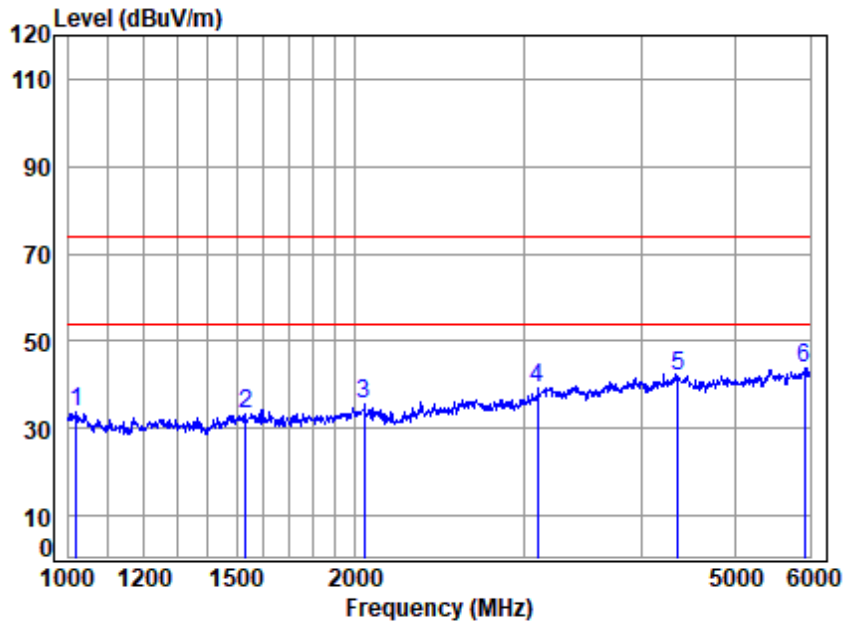
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Test Mode: 17; Polarity: Vertical

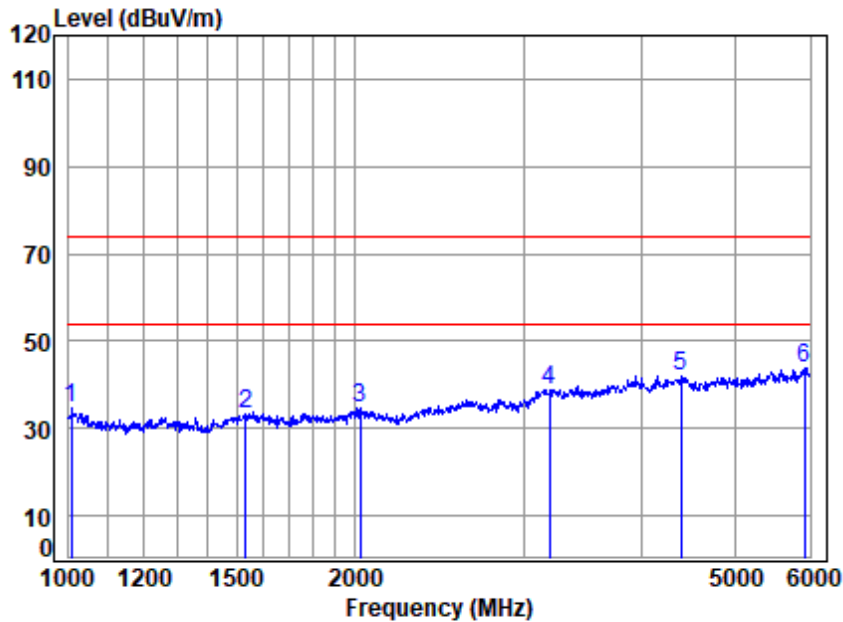


Site : chamber
Condition: 3m VERTICAL
Job No : 05422WM/05423WM
Mode : 17

	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	5.87	25.72	54.61	56.71	33.69	74.00	-40.31	Peak
2	1531.793	4.99	26.93	54.78	56.21	33.35	74.00	-40.65	Peak
3	2044.007	5.05	28.98	54.91	56.40	35.52	74.00	-38.48	Peak
4	3108.635	5.96	31.76	54.91	56.53	39.34	74.00	-34.66	Peak
5	4361.545	7.10	34.49	54.26	54.80	42.13	74.00	-31.87	Peak
6 p	5925.216	8.82	34.65	53.18	53.39	43.68	74.00	-30.32	Peak



Test Mode: 18; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05422WM/05423WM
Mode : 18

	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	1007.193	5.89	26.07	54.60	57.10	34.46	74.00	-39.54	Peak
2	1534.540	4.99	26.94	54.79	56.22	33.36	74.00	-40.64	Peak
3	2022.150	5.03	28.89	54.90	55.80	34.82	74.00	-39.18	Peak
4	3199.044	6.02	32.89	54.84	54.69	38.76	74.00	-35.24	Peak
5	4392.917	7.11	34.74	54.26	54.39	41.98	74.00	-32.02	Peak
6 p	5914.609	8.80	34.63	53.19	53.69	43.93	74.00	-30.07	Peak



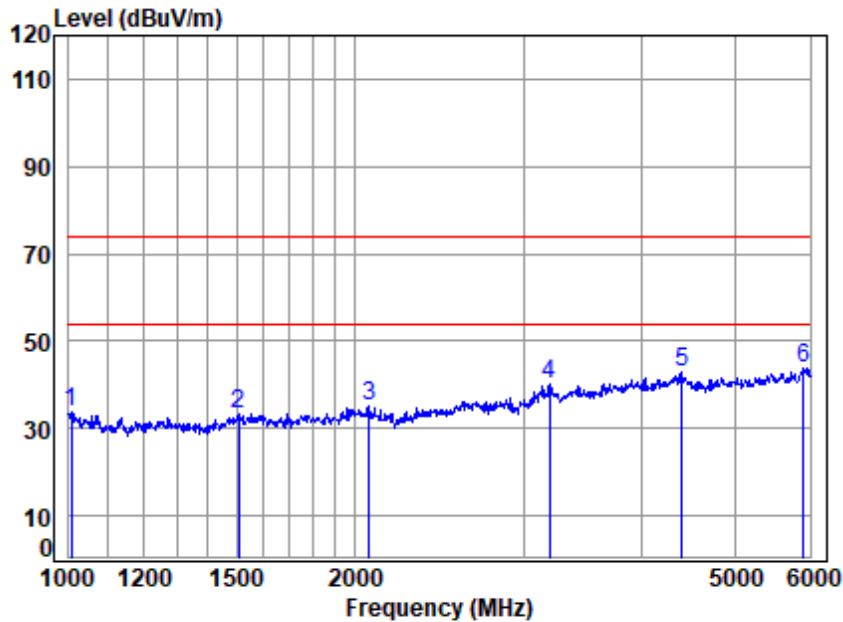
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Test Mode: 18; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05422WM/05423WM
Mode : 18

	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	1007.193	5.89	26.07	54.60	56.26	33.62	74.00	-40.38	Peak
2	1507.289	4.99	26.83	54.78	56.26	33.30	74.00	-40.70	Peak
3	2066.100	5.07	28.94	54.91	55.97	35.07	74.00	-38.93	Peak
4	3193.317	6.01	32.85	54.85	56.11	40.12	74.00	-33.88	Peak
5	4400.794	7.12	34.79	54.26	55.37	43.02	74.00	-30.98	Peak
6 p	5904.021	8.79	34.61	53.20	53.55	43.75	74.00	-30.25	Peak



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7 Test Setup Photo

Refer to SZCR2512005422WM Appendix_Setup Photo-15B

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2512005422WM

- End of the Report -

