

# TEST REPORT

**Application No.:** SZCR2507002942WM  
**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:** Mobile Phone  
**Model No.:** T451A  
**Trade Mark:** TCL  
**FCC ID:** 2ACCJB235  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2025-01-14 (for report of SZCR250100020705)  
2025-07-07 (for report of SZCR250700294205)  
**Date of Test:** 2025-01-22 to 2025-02-05 (for report of SZCR250100020705)  
2025-07-14 to 2025-07-14 (for report of SZCR250700294205)  
**Date of Issue:** 2025-02-06 (for report of SZCR250100020705)  
2025-07-17 (for report of SZCR250700294205)

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu  
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 2 of 36

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-07-17		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/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

### Remark:

This test report (Report No.: SZCR250700294205 issue on 2025-07-17) is based on the original test report (Report No.: SZCR250100020705 issue on 2025-02-06).

Review this report and original report, this report just changed the trade mark, memory and camera.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only Radiated Emissions (30MHz-1GHz) were retested and other test data in this report are based on the previous report with report number SZCR250100020705 issue on 2025-02-06.

## 3 Contents

	Page
1 Cover Page .....	1
2 Test Summary .....	3
3 Contents .....	4
4 General Information .....	5
4.1 Details of E.U.T. ....	5
4.2 Test modes .....	6
4.3 Description of Support Units .....	6
4.4 Measurement Uncertainty .....	6
4.5 Test Location .....	7
4.6 Test Facility .....	7
4.7 Deviation from Standards .....	7
4.8 Abnormalities from Standard Conditions .....	7
5 Equipment List .....	8
6 Emission Test Results .....	10
6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) .....	10
6.1.1 E.U.T. Operation .....	10
6.1.2 Test Mode Description .....	10
6.1.3 Test Setup Diagram .....	11
6.1.4 Measurement Procedure and Data .....	11
6.2 Radiated Emissions (30MHz-1GHz) .....	16
6.2.1 E.U.T. Operation .....	16
6.2.2 Test Mode Description .....	16
6.2.3 Test Setup Diagram .....	17
6.2.4 Measurement Procedure and Data .....	17
6.3 Radiated Emissions (Above 1GHz) .....	26
6.3.1 E.U.T. Operation .....	26
6.3.2 Test Mode Description .....	26
6.3.3 Test Setup Diagram .....	26
6.3.4 Measurement Procedure and Data .....	27
7 Test Setup Photo .....	36
8 EUT Constructional Details (EUT Photos) .....	36



## 4 General Information

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

EUT Description:	Mobile Phone
Model No.:	T451A
Trade Mark:	TCL
Hardware Version:	V00
Software Version:	T451DA11

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.

#### Accessory:

Adapter No.	Model Name	Brand Name
1	UT-681A-5200MY	TCL
2	UC13US	TCL
3	UC13AR	TCL

Remark: The design of all chargers is the same, only the plug is different, Testing the Adapter No.1.

Battery No.	Model Name	Remark
1	TLp049LB	EUT1
2	TLp049L9	EUT2

USB Cable No.	Model Name	Brand Name
1	JWUB1686-M01R	TCL

Earphone No.	Model Name	Brand Name
1	JWEP1295	TCL



## 4.2 Test modes

For report of SZCR250100020705		
Pretest these modes to find the worst case and show the worse data in the test items:	04	Transfer data between the EUT1 and the PC+USB cable
	05	Transfer data between the EUT2 and the PC+USB cable
	06	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Rear)+WWAN idle+Earphone
	07	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Front)+WWAN idle+Earphone
	08	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Play MP4+WWAN idle+Earphone
	09	EUT1 OTG mode(read data from USB disk)
For report of SZCR250700294205		
Pretest these modes to find the worst case and show the worse data in the test items:	03	Transfer data between the EUT and the PC+USB cable
	04	EUT+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Rear)+WWAN idle+Earphone
	05	EUT+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Front)+WWAN idle+Earphone

## 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	REF. No.SEA18C00E
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A01
Router	NETGEAR	DGN2200	REF. No.SEA22A00

## 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  $U_{\text{lab}}$  (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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 7 of 36

### 4.5 Test Location

All tests were performed at:

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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.

### 4.6 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



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## 5 Equipment List

Test Equipment for original report of SZCR250100020705:

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	2025-01-08	2026-01-07
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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 9 of 36

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

New Test Equipment for report of SZCR250700294205:

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	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

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	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

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: 22.5 °C

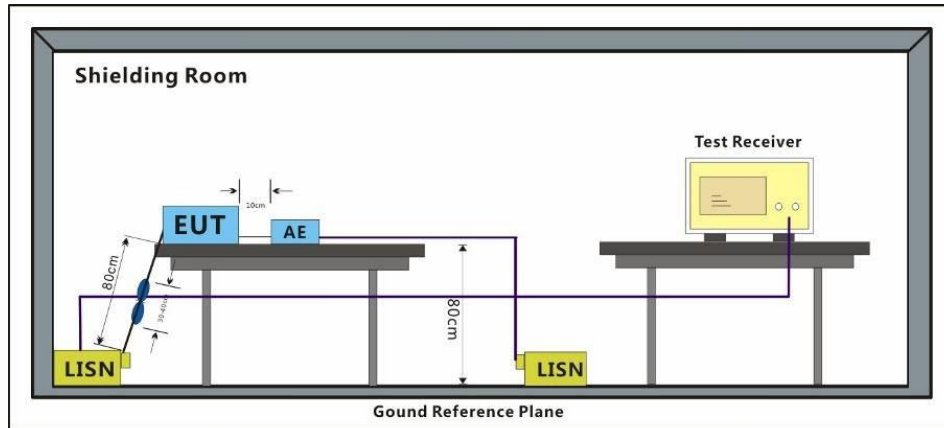
Humidity: 44.5 % RH

Atmospheric Pressure: 1020 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Transfer data between the EUT1 and the PC+USB cable
Pre-scan	05	Transfer data between the EUT2 and the PC+USB cable
Final test	06	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Rear)+WWAN idle+Earphone
Pre-scan	07	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Front)+WWAN idle+Earphone
Pre-scan	08	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Play MP4+WWAN idle+Earphone
Pre-scan	09	EUT1 OTG mode(read data from USB disk)

### 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



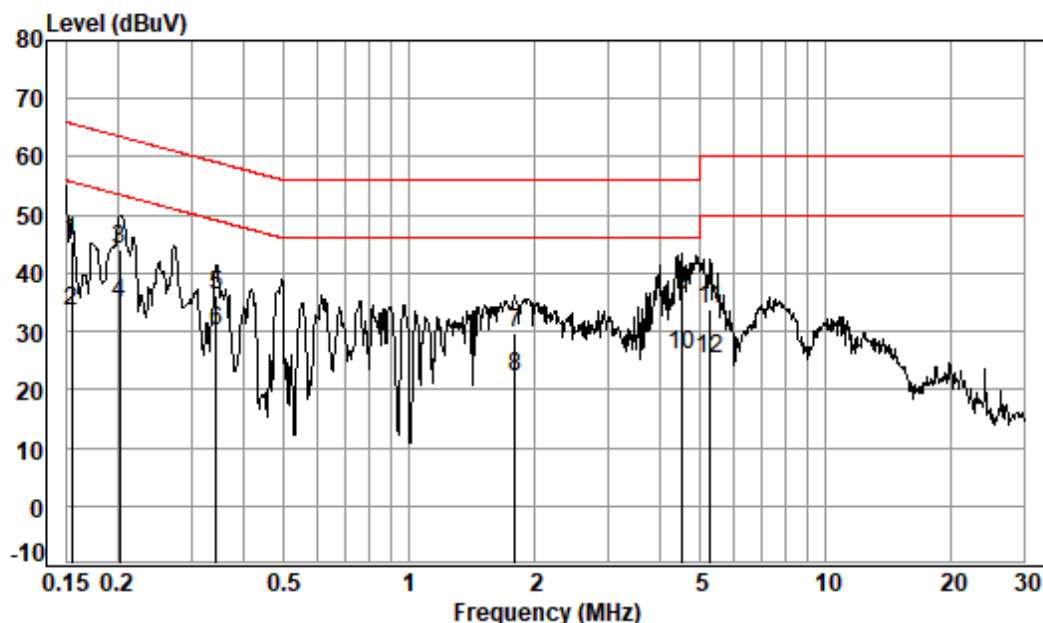
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 12 of 36

Test Mode: 04; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00207WM

Test mode: 04

	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	35.30	45.55	65.74	-20.19	QP
2	0.1548	0.06	10.19	23.38	33.63	55.74	-22.11	Average
3 *	0.2018	0.06	10.11	33.82	43.99	63.54	-19.55	QP
4 *	0.2018	0.06	10.11	24.83	35.00	53.54	-18.54	Average
5	0.3446	0.07	9.77	26.20	36.04	59.09	-23.05	QP
6	0.3446	0.07	9.77	20.30	30.14	49.09	-18.95	Average
7	1.7905	0.10	9.58	20.10	29.78	56.00	-26.22	QP
8	1.7905	0.10	9.58	12.46	22.14	46.00	-23.86	Average
9	4.5254	0.12	9.66	26.52	36.30	56.00	-19.70	QP
10	4.5254	0.12	9.66	15.99	25.77	46.00	-20.23	Average
11	5.2770	0.13	9.66	23.98	33.77	60.00	-26.23	QP
12	5.2770	0.13	9.66	15.37	25.16	50.00	-24.84	Average



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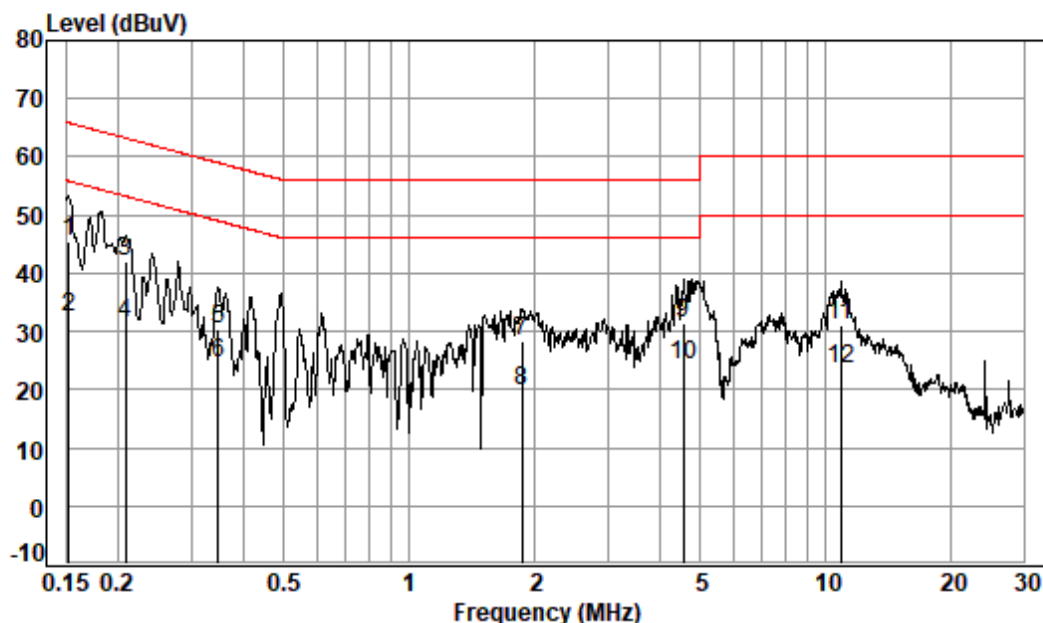
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 13 of 36

Test Mode: 04; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00207WM

Test mode: 04

	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	35.24	45.45	65.87	-20.42	QP
2	0.1524	0.06	10.15	22.10	32.31	55.87	-23.56	Average
3	0.2094	0.06	10.04	31.84	41.94	63.23	-21.29	QP
4 *	0.2094	0.06	10.04	21.25	31.35	53.23	-21.88	Average
5	0.3483	0.07	9.75	20.49	30.31	59.00	-28.69	QP
6	0.3483	0.07	9.75	14.65	24.47	49.00	-24.53	Average
7	1.8680	0.10	9.55	18.66	28.31	56.00	-27.69	QP
8	1.8680	0.10	9.55	10.16	19.81	46.00	-26.19	Average
9	4.5494	0.12	9.56	21.71	31.39	56.00	-24.61	QP
10	4.5494	0.12	9.56	14.43	24.11	46.00	-21.89	Average
11	10.8474	0.21	9.63	21.31	31.15	60.00	-28.85	QP
12	10.8474	0.21	9.63	13.67	23.51	50.00	-26.49	Average



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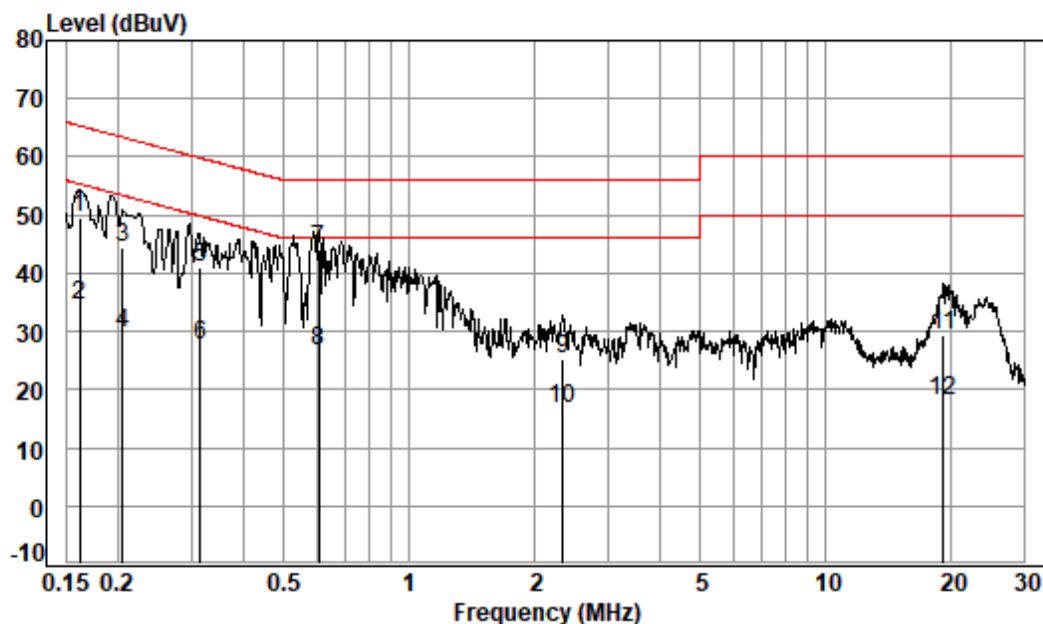
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 14 of 36

Test Mode: 06; Line: Live line



Site : Shielding Room  
Condition: Line  
Job No. : 00207WM  
Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.06	10.17	39.29	49.52	65.34	-15.82	QP
2	0.1624	0.06	10.17	24.10	34.33	55.34	-21.01	Average
3	0.2050	0.06	10.10	34.36	44.52	63.40	-18.88	QP
4	0.2050	0.06	10.10	19.40	29.56	53.40	-23.84	Average
5	0.3149	0.07	9.82	31.23	41.12	59.84	-18.72	QP
6	0.3149	0.07	9.82	17.63	27.52	49.84	-22.32	Average
7 *	0.6075	0.08	9.60	34.48	44.16	56.00	-11.84	QP
8 *	0.6075	0.08	9.60	17.01	26.69	46.00	-19.31	Average
9	2.3336	0.11	9.61	15.69	25.41	56.00	-30.59	QP
10	2.3336	0.11	9.61	7.10	16.82	46.00	-29.18	Average
11	19.1220	0.29	10.13	18.88	29.30	60.00	-30.70	QP
12	19.1220	0.29	10.13	7.52	17.94	50.00	-32.06	Average



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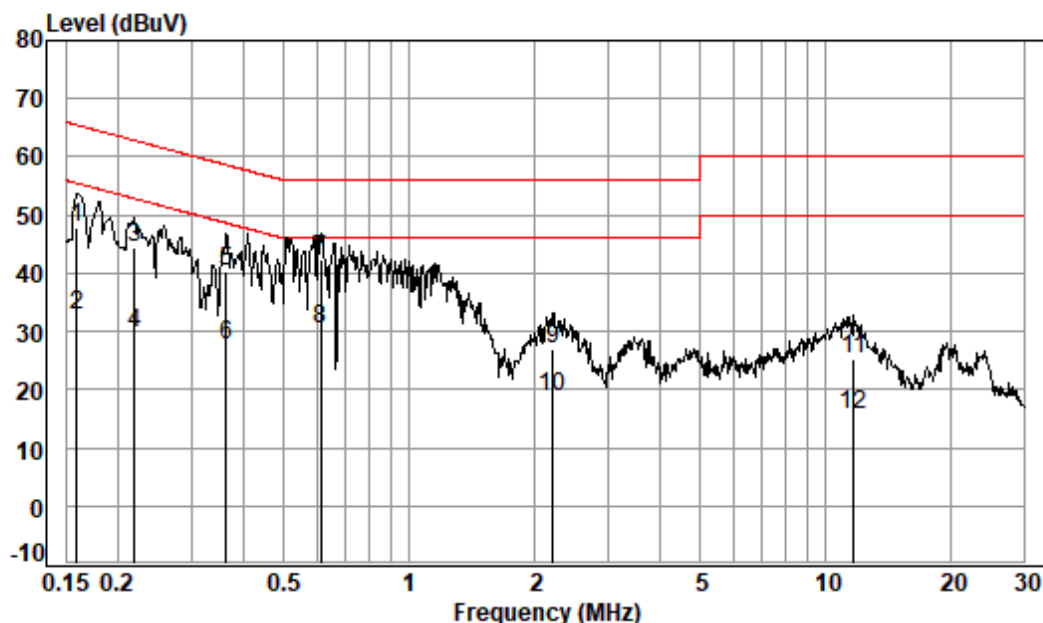
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 15 of 36

Test Mode: 06; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 00207WM  
Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1598	0.06	10.13	37.70	47.89	65.47	-17.58	QP
2	0.1598	0.06	10.13	22.46	32.65	55.47	-22.82	Average
3	0.2197	0.06	10.01	34.24	44.31	62.83	-18.52	QP
4	0.2197	0.06	10.01	19.46	29.53	52.83	-23.30	Average
5	0.3634	0.07	9.75	30.48	40.30	58.65	-18.35	QP
6	0.3634	0.07	9.75	17.71	27.53	48.65	-21.12	Average
7 *	0.6140	0.08	9.67	32.58	42.33	56.00	-13.67	QP
8 *	0.6140	0.08	9.67	20.79	30.54	46.00	-15.46	Average
9	2.2132	0.10	9.55	17.32	26.97	56.00	-29.03	QP
10	2.2132	0.10	9.55	9.08	18.73	46.00	-27.27	Average
11	11.6208	0.22	9.68	15.34	25.24	60.00	-34.76	QP
12	11.6208	0.22	9.68	5.69	15.59	50.00	-34.41	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

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: 21.2 °C

Humidity: 46.6 % RH

Atmospheric Pressure: 1020 mbar

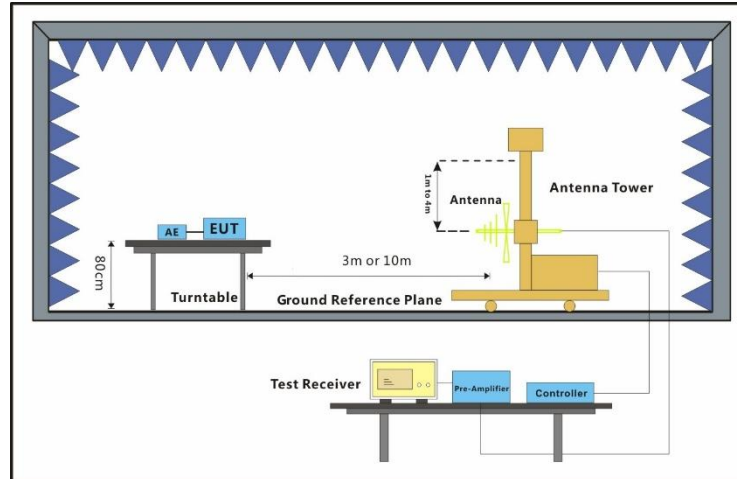
### 6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
For report: SZCR250100020705		
Final test	04	Transfer data between the EUT1 and the PC+USB cable
Pre-scan	05	Transfer data between the EUT2 and the PC+USB cable
Pre-scan	06	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Rear)+WWAN idle+Earphone
Final test	07	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Front)+WWAN idle+Earphone
Pre-scan	08	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Play MP4+WWAN idle+Earphone
Pre-scan	09	EUT1 OTG mode(read data from USB disk)
for report: SZCR250700294205		
Final test	03	Transfer data between the EUT and the PC+USB cable
Final test	04	EUT+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Rear)+WWAN idle+Earphone
Pre-scan	05	EUT+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Front)+WWAN idle+Earphone





### 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



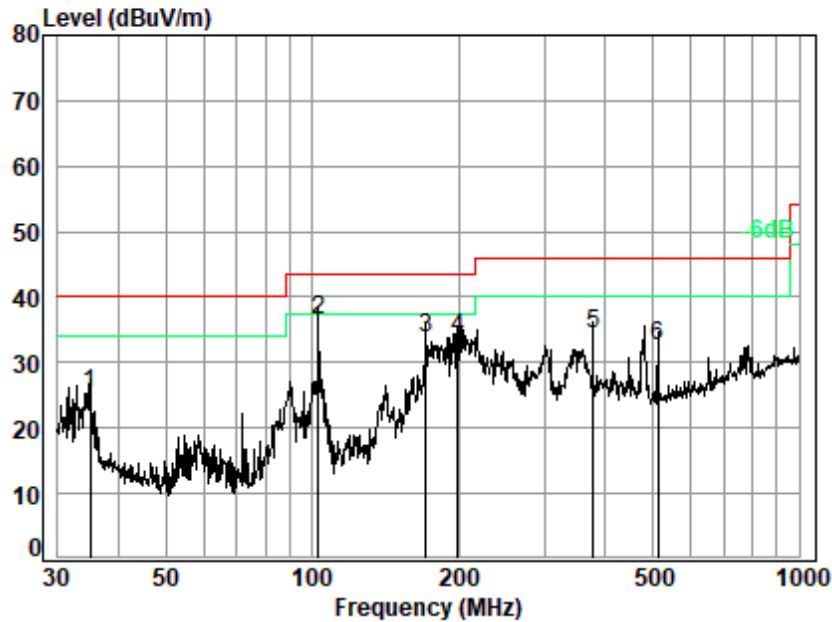
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 18 of 36

Test Mode: 04; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00207WM  
Test Mode: 04

	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	35.005	18.88	0.73	27.78	33.46	25.29	40.00	-14.71 QP
2 q	103.080	12.28	1.24	27.58	50.50	36.44	43.50	-7.06 QP
3	171.393	13.42	1.64	27.29	46.13	33.90	43.50	-9.60 QP
4	198.588	14.07	1.75	27.18	45.04	33.68	43.50	-9.82 QP
5	377.259	20.80	2.50	27.06	38.00	34.24	46.00	-11.76 QP
6	513.633	23.26	2.97	27.62	34.08	32.69	46.00	-13.31 QP



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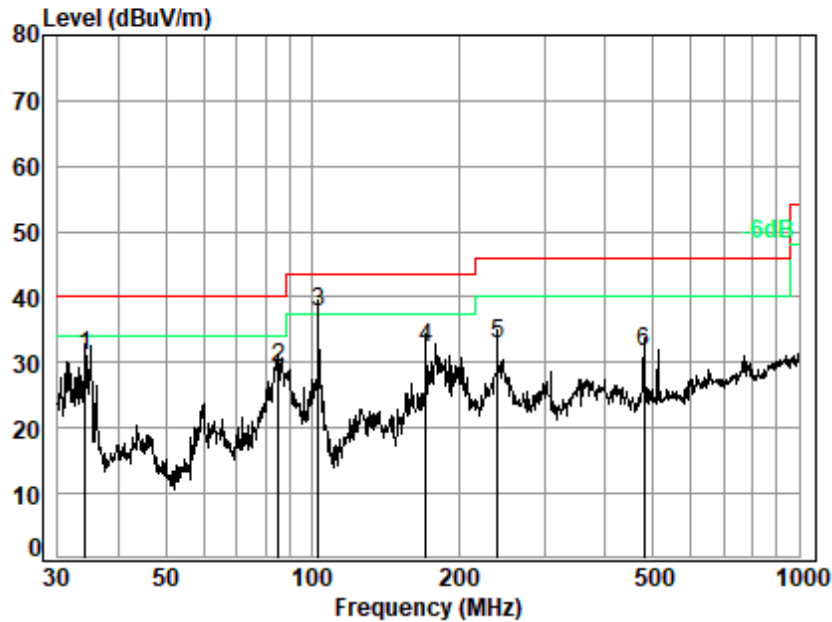
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 19 of 36

Test Mode: 04; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00207WM  
Test Mode: 04

	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	34.156	19.34	0.72	27.78	38.68	30.96	40.00 -9.04 QP
2	85.298	11.07	1.13	27.63	44.69	29.26	40.00 -10.74 QP
3 q	102.719	12.29	1.24	27.58	51.67	37.62	43.50 -5.88 QP
4	171.393	13.42	1.64	27.29	44.62	32.39	43.50 -11.11 QP
5	239.987	17.07	1.96	27.00	40.83	32.86	46.00 -13.14 QP
6	480.528	22.75	2.86	27.48	33.54	31.67	46.00 -14.33 QP



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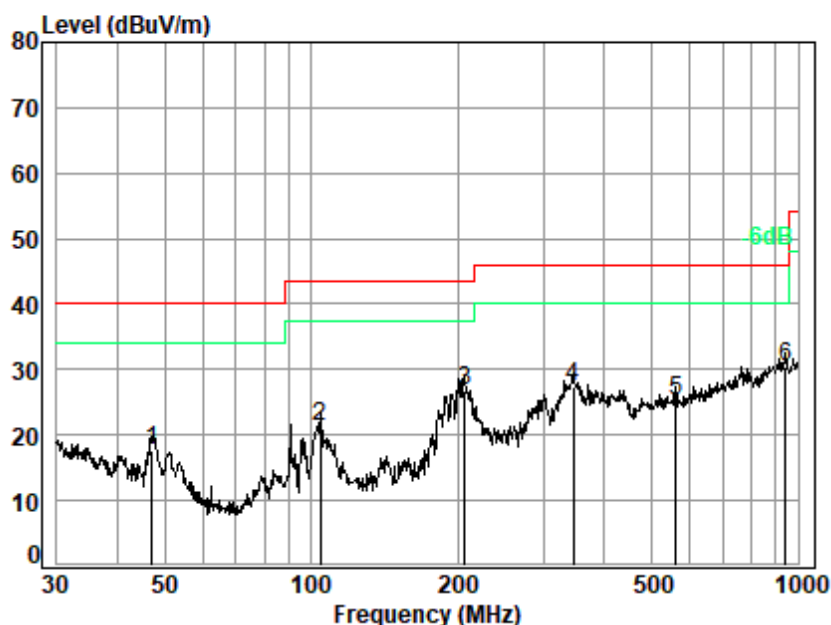
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 20 of 36

Test Mode: 07; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00207WM  
Test Mode: 07

	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	46.995	13.64	0.84	27.74	30.99	17.73	40.00	-22.27 QP
2	104.170	12.22	1.25	27.57	35.37	21.27	43.50	-22.23 QP
3	206.398	14.61	1.79	27.14	37.52	26.78	43.50	-16.72 QP
4	345.595	19.58	2.39	26.94	32.33	27.36	46.00	-18.64 QP
5	560.693	23.44	3.12	27.81	26.63	25.38	46.00	-20.62 QP
6 q	942.131	28.19	4.23	26.46	24.49	30.45	46.00	-15.55 QP



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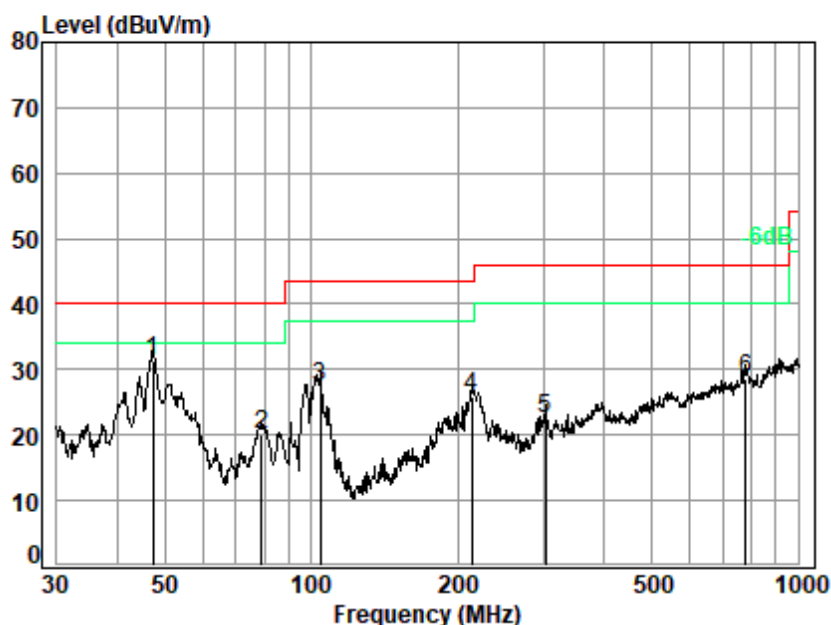
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 21 of 36

Test Mode: 07; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00207WM  
Test Mode: 07

		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	47.326	13.53	0.84	27.74	44.65	31.28	40.00	-8.72 QP
2		78.965	10.41	1.08	27.65	36.14	19.98	40.00	-20.02 QP
3		104.170	12.22	1.25	27.57	41.54	27.44	43.50	-16.06 QP
4		213.763	14.80	1.83	27.11	36.27	25.79	43.50	-17.71 QP
5		302.481	18.22	2.21	26.76	28.82	22.49	46.00	-23.51 QP
6		779.607	27.03	3.80	27.53	25.32	28.62	46.00	-17.38 QP



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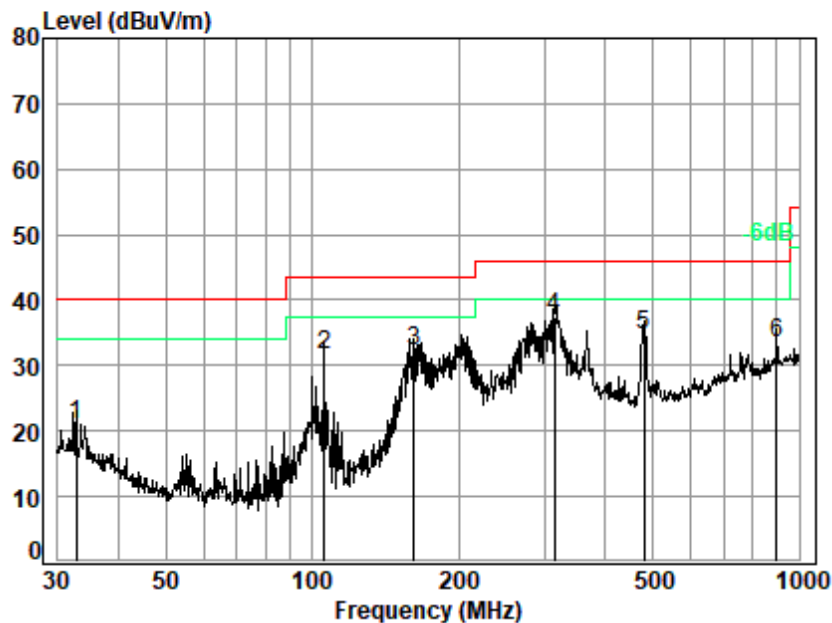
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### New test data for report No.: SZCR250700294205

Test Mode: 03; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 02942WM  
Test Mode: 03

		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	32.749	19.98	0.76	27.65	28.00	21.09	40.00	-18.91	QP
2	105.642	12.19	1.26	27.62	45.70	31.53	43.50	-11.97	QP
3	161.474	13.48	1.55	27.74	44.91	32.20	43.50	-11.30	QP
4 q	314.377	18.40	2.17	27.54	44.35	37.38	46.00	-8.62	QP
5	480.528	22.75	2.75	27.91	37.22	34.81	46.00	-11.19	QP
6	900.147	27.82	3.98	26.97	28.71	33.54	46.00	-12.46	QP



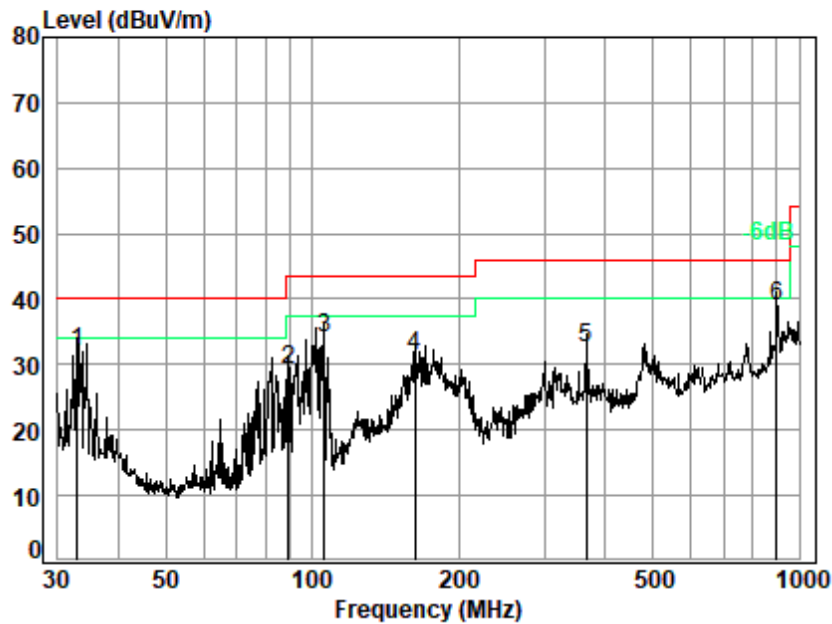
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 23 of 36

Test Mode: 03; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 02942WM  
Test Mode: 03

	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	32.979	19.89	0.77	27.65	38.92	31.93	40.00	-8.07 QP
2	89.276	11.65	1.17	27.60	44.07	29.29	43.50	-14.21 QP
3	105.642	12.19	1.26	27.62	48.26	34.09	43.50	-9.41 QP
4	162.611	13.38	1.56	27.74	44.01	31.21	43.50	-12.29 QP
5	365.539	20.31	2.37	27.67	37.66	32.67	46.00	-13.33 QP
6 q	900.147	27.82	3.98	26.97	34.13	38.96	46.00	-7.04 QP



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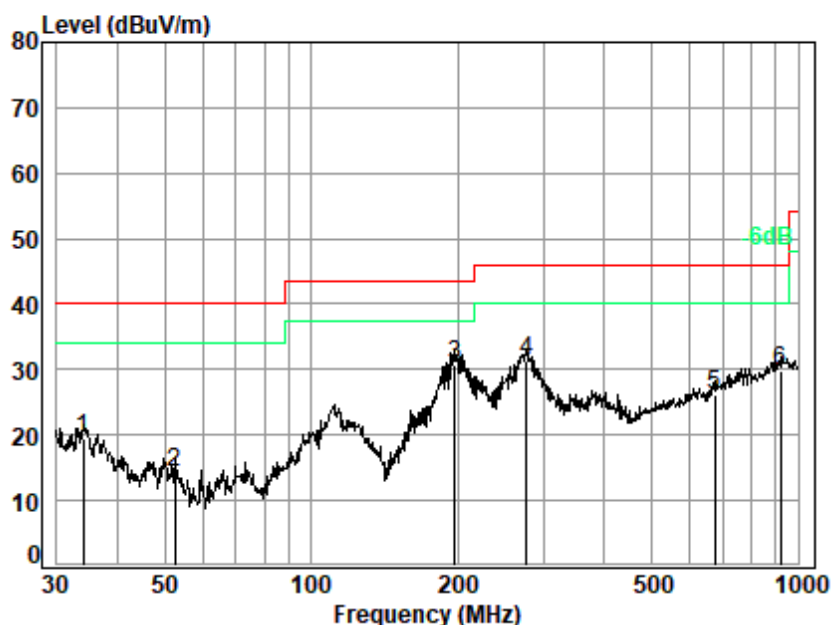
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 24 of 36

Test Mode: 04; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 02942WM  
Test Mode: 04

	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	34.037	19.41	0.78	27.65	27.06	19.60	40.00	-20.40 QP
2	52.391	12.39	0.91	27.63	28.68	14.35	40.00	-25.65 QP
3 q	197.200	14.10	1.69	27.80	42.85	30.84	43.50	-12.66 QP
4	277.094	17.00	2.03	27.56	39.74	31.21	46.00	-14.79 QP
5	672.845	25.64	3.33	27.90	25.08	26.15	46.00	-19.85 QP
6	919.287	28.17	4.02	26.85	24.45	29.79	46.00	-16.21 QP



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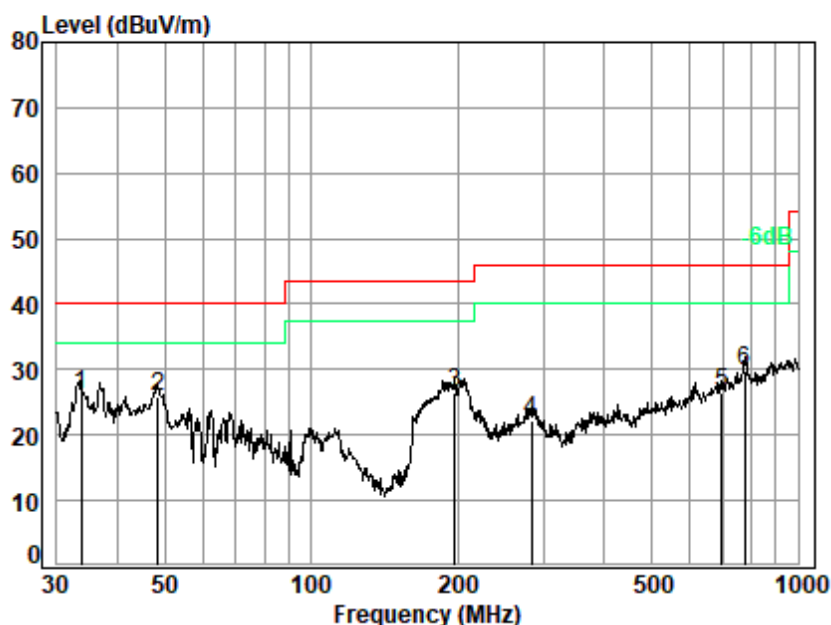
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 25 of 36

Test Mode: 04; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 02942WM  
Test Mode: 04

		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	33.680	19.57	0.77	27.65	33.54	26.23	40.00 -13.77 QP
2		48.332	13.20	0.89	27.63	39.25	25.71	40.00 -14.29 QP
3		197.200	14.10	1.69	27.80	38.61	26.60	43.50 -16.90 QP
4		283.979	16.90	2.05	27.54	30.79	22.20	46.00 -23.80 QP
5		696.857	25.88	3.40	27.84	24.94	26.38	46.00 -19.62 QP
6		776.878	26.93	3.63	27.65	26.95	29.86	46.00 -16.14 QP



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### 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: 21.5 °C

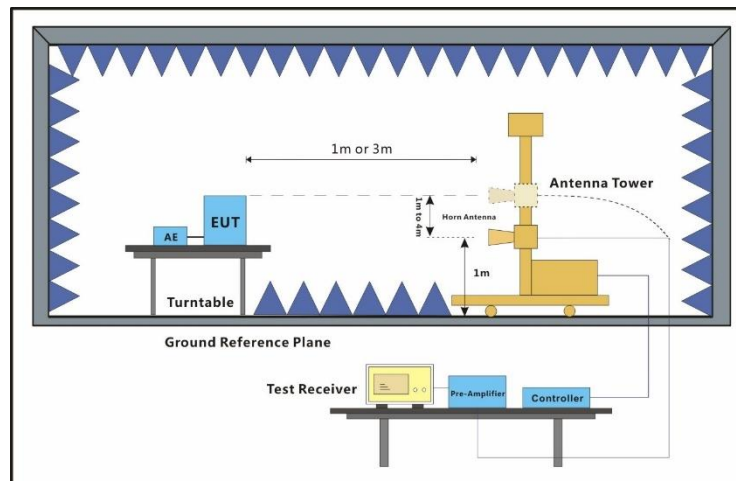
Humidity: 40.5 % RH

Atmospheric Pressure: 1020 mbar

#### 6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Transfer data between the EUT1 and the PC+USB cable
Pre-scan	05	Transfer data between the EUT2 and the PC+USB cable
Final test	06	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Rear)+WWAN idle+Earphone
Final test	07	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Front)+WWAN idle+Earphone
Final test	08	EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Play MP4+WWAN idle+Earphone
Pre-scan	09	EUT1 OTG mode(read data from USB disk)

#### 6.3.3 Test Setup Diagram



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 27 of 36

### 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



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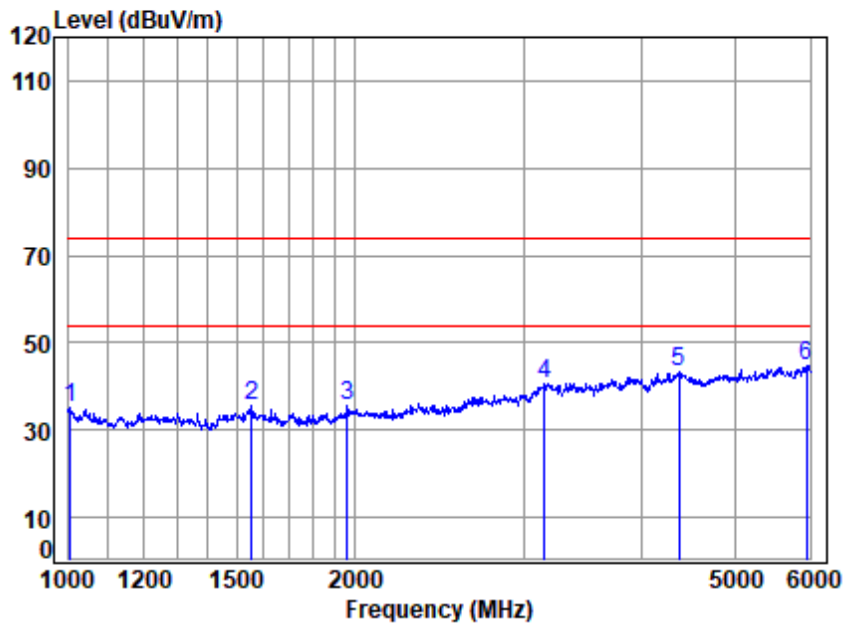
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 28 of 36

Test Mode: 04; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00207WM  
Mode : 04

	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	1003.590	5.94	26.19	54.60	57.72	35.25	74.00	-38.75	Peak
2	1556.694	4.91	26.97	54.79	58.30	35.39	74.00	-38.61	Peak
3	1961.484	5.05	28.11	54.89	57.12	35.39	74.00	-38.61	Peak
4	3159.171	6.06	32.57	54.87	56.70	40.46	74.00	-33.54	Peak
5	4369.367	7.05	34.55	54.26	56.10	43.44	74.00	-30.56	Peak
6 p	5946.487	8.72	34.69	53.15	54.67	44.93	74.00	-29.07	Peak



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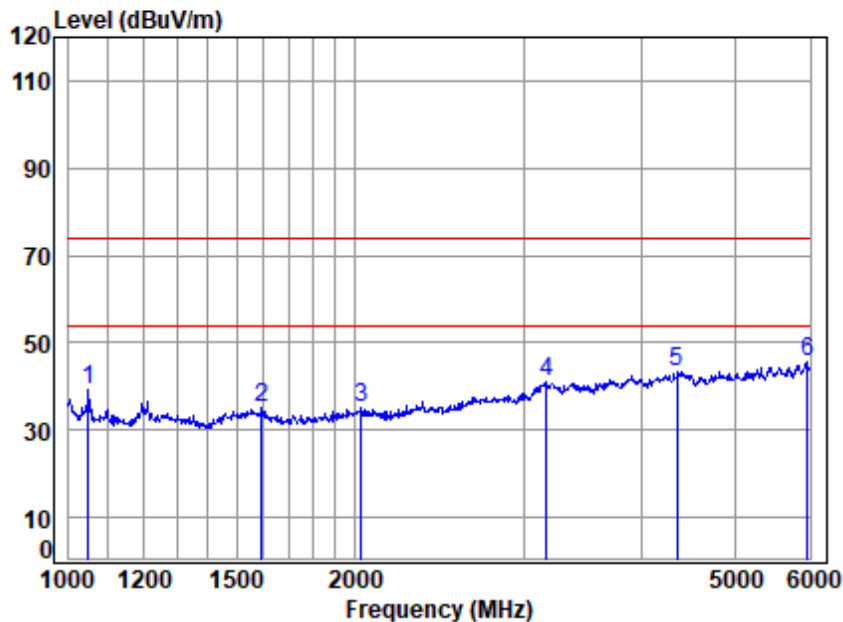
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 29 of 36

Test Mode: 04; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00207WM  
Mode : 04

	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	1047.688	5.83	24.77	54.62	63.15	39.13	74.00	-34.87	Peak
2	1593.380	4.93	26.83	54.80	58.19	35.15	74.00	-38.85	Peak
3	2029.410	5.09	28.92	54.90	55.83	34.94	74.00	-39.06	Peak
4	3176.198	6.07	32.71	54.86	57.28	41.20	74.00	-32.80	Peak
5	4353.737	7.04	34.43	54.26	56.32	43.53	74.00	-30.47	Peak
6 p	5957.151	8.73	34.73	53.14	55.29	45.61	74.00	-28.39	Peak



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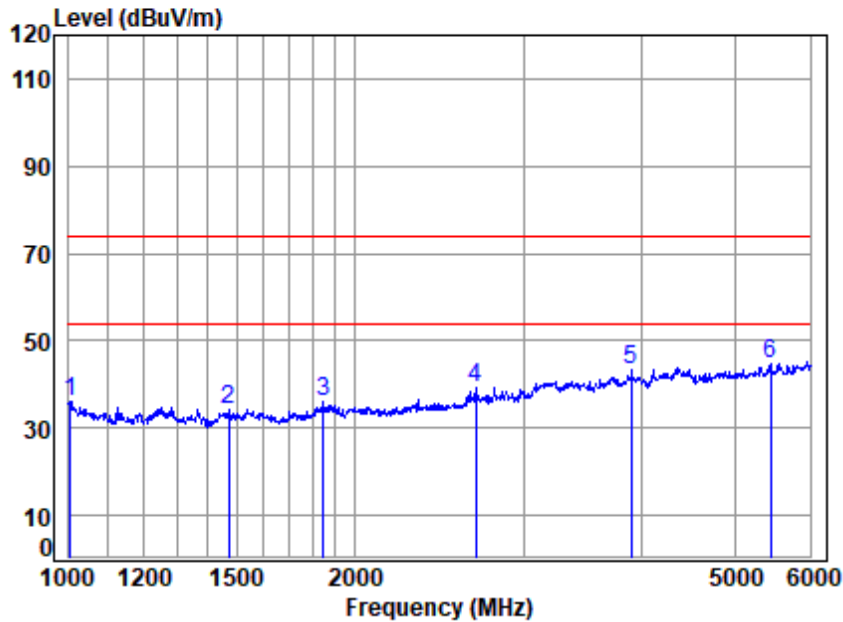
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 30 of 36

Test Mode: 06; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00207WM  
Mode : 06

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1003.590	5.94	26.19	54.60	58.53	36.06	74.00	-37.94	Peak
2	1472.586	4.94	26.03	54.77	57.83	34.03	74.00	-39.97	Peak
3	1848.868	5.01	27.00	54.87	58.69	35.83	74.00	-38.17	Peak
4	2674.269	5.63	29.96	54.97	58.39	39.01	74.00	-34.99	Peak
5	3895.981	6.67	33.74	54.36	57.21	43.26	74.00	-30.74	Peak
6 p	5456.438	8.24	34.67	53.67	55.56	44.80	74.00	-29.20	Peak



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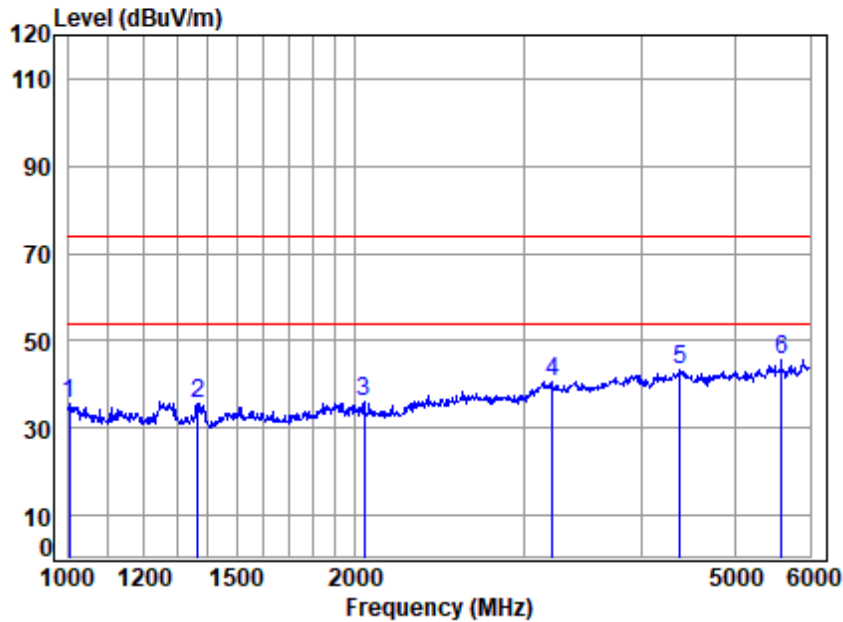
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 31 of 36

Test Mode: 06; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00207WM  
Mode : 06

	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	1001.793	5.95	26.24	54.60	57.86	35.45	74.00	-38.55	Peak
2	1365.835	5.13	24.53	54.73	60.87	35.80	74.00	-38.20	Peak
3	2040.348	5.09	28.96	54.90	57.07	36.22	74.00	-37.78	Peak
4	3216.286	6.10	32.64	54.83	56.75	40.66	74.00	-33.34	Peak
5	4385.052	7.06	34.68	54.26	55.71	43.19	74.00	-30.81	Peak
6 p	5595.042	8.39	34.70	53.52	55.93	45.50	74.00	-28.50	Peak



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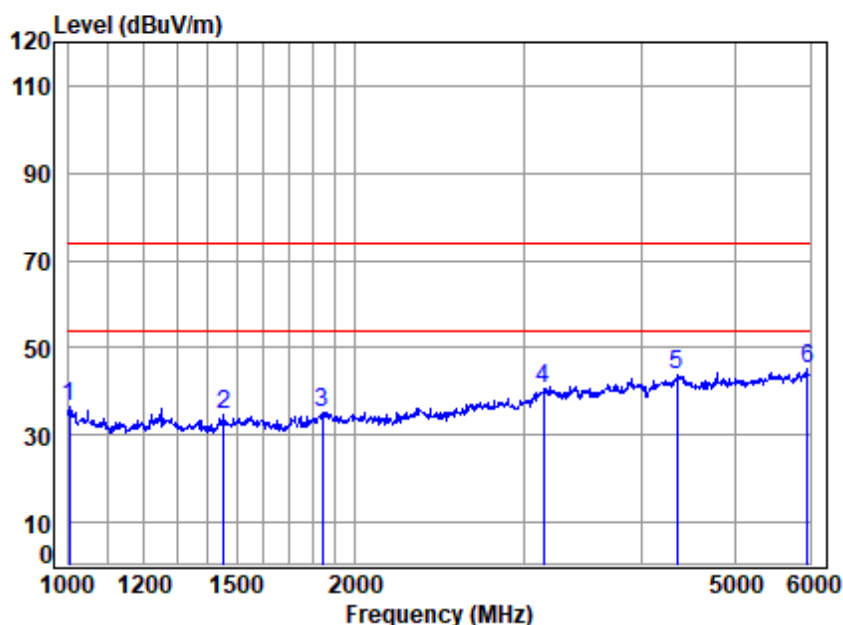
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Report No.: SZCR250700294205

Page: 32 of 36

Test Mode: 07; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00207WM  
Mode : 07

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1001.793	5.95	26.24	54.60	59.02	36.61	74.00	-37.39	Peak
2	1454.232	4.97	25.52	54.76	58.98	34.71	74.00	-39.29	Peak
3	1845.558	5.01	27.00	54.87	58.19	35.33	74.00	-38.67	Peak
4	3153.515	6.06	32.53	54.88	57.06	40.77	74.00	-33.23	Peak
5	4353.737	7.04	34.43	54.26	56.50	43.71	74.00	-30.29	Peak
6 p	5957.151	8.73	34.73	53.14	54.69	45.01	74.00	-28.99	Peak



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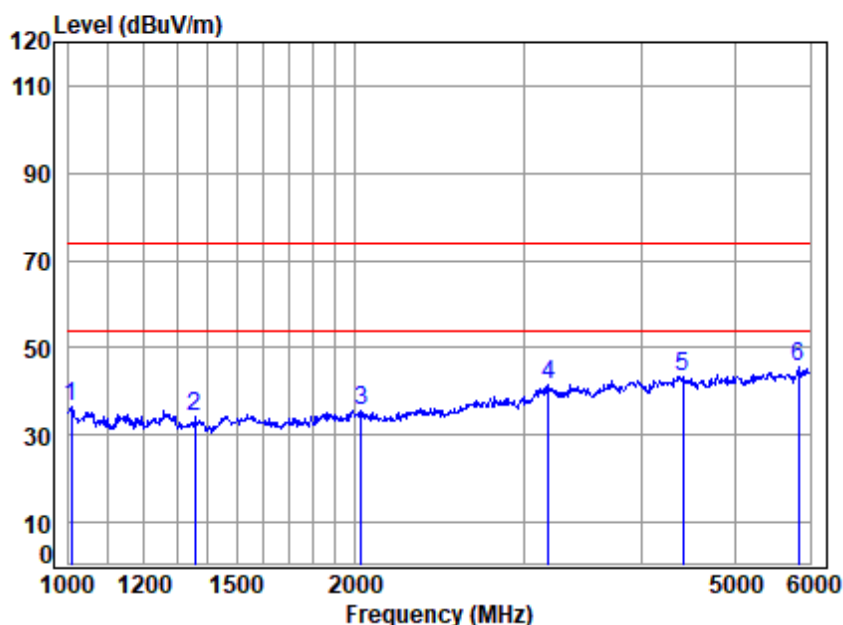
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 33 of 36

Test Mode: 07; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00207WM  
Mode : 07

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1007.193	5.93	26.07	54.60	59.25	36.65	74.00	-37.35	Peak
2	1356.081	5.15	24.51	54.73	59.30	34.23	74.00	-39.77	Peak
3	2025.777	5.08	28.90	54.90	56.39	35.47	74.00	-38.53	Peak
4	3187.600	6.08	32.80	54.85	57.46	41.49	74.00	-32.51	Peak
5	4408.687	7.08	34.70	54.26	56.03	43.55	74.00	-30.45	Peak
6 p	5830.433	8.62	34.36	53.27	56.14	45.85	74.00	-28.15	Peak



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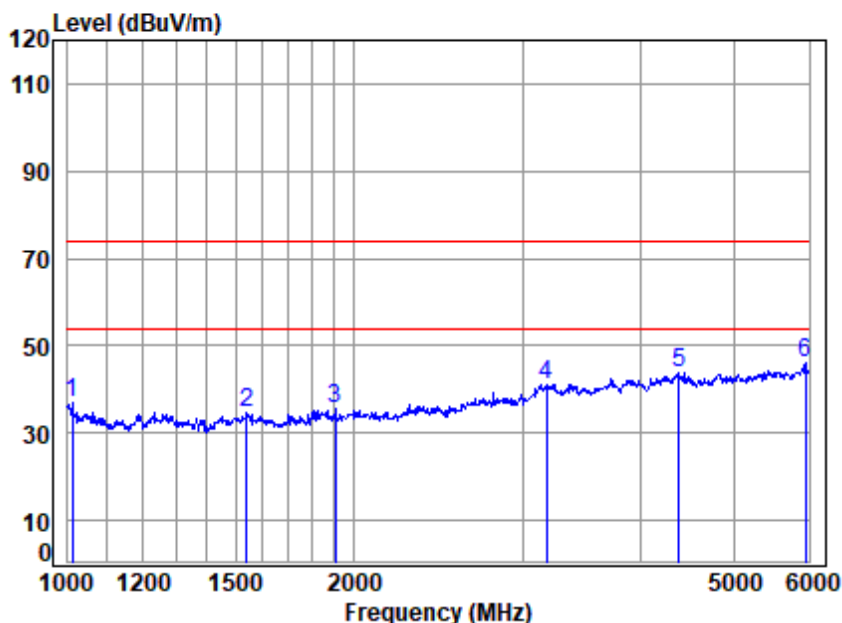
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 34 of 36

Test Mode: 08; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00207WM  
Mode : 08

	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	59.48	36.75	74.00	-37.25	Peak
2	1542.811	4.91	26.97	54.79	57.44	34.53	74.00	-39.47	Peak
3	1909.469	5.03	27.49	54.88	58.14	35.78	74.00	-38.22	Peak
4	3181.894	6.08	32.76	54.86	56.89	40.87	74.00	-33.13	Peak
5	4385.052	7.06	34.68	54.26	56.44	43.92	74.00	-30.08	Peak
6 p	5946.487	8.72	34.69	53.15	55.67	45.93	74.00	-28.07	Peak



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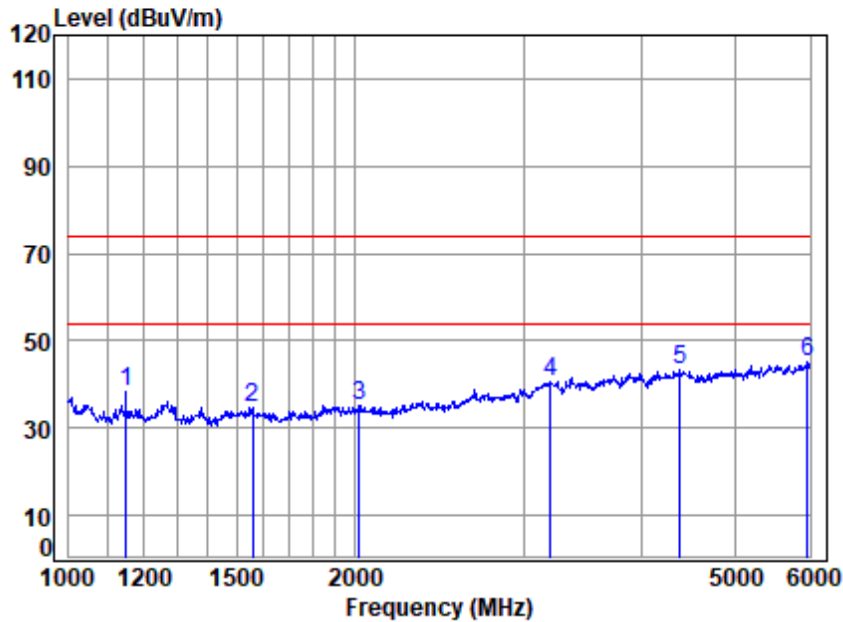
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700294205

Page: 35 of 36

Test Mode: 08; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00207WM  
Mode : 08

	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	1147.936	5.59	23.89	54.66	63.52	38.34	74.00	-35.66	Peak
2	1559.486	4.91	26.96	54.79	57.62	34.70	74.00	-39.30	Peak
3	2018.530	5.08	28.87	54.90	55.96	35.01	74.00	-38.99	Peak
4	3204.781	6.09	32.82	54.84	56.48	40.55	74.00	-33.45	Peak
5	4377.203	7.05	34.62	54.26	55.75	43.16	74.00	-30.84	Peak
6 p	5957.151	8.73	34.73	53.14	54.82	45.14	74.00	-28.86	Peak



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## 7 Test Setup Photo

Please refer to SZCR2507002942 Appendix\_Setup Photo

## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2507002942.

- End of the Report -

