

TEST REPORT

Application No.: SZCR2404001497WM
Applicant: vivo Mobile Communication Co., Ltd.
Address of Applicant: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Manufacturer: vivo Mobile Communication Co., Ltd.
Address of Manufacturer: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Equipment Under Test (EUT):
EUT Description: Mobile phone
Model No.: V2351
Trade Mark: vivo
FCC ID: 2AUCY-V2351
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2024-04-24
Date of Test: 2024-05-18 to 2024-05-21
Date of Issue: 2024-05-27

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400149707

Page: 2 of 28

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2024-05-27 | | Original |

| | | |
|--------------------------|--|--|
| Authorized for issue by: | | |
| | | <div>Sherlock Fang</div> <div>Sherlock Fang/Project Engineer</div> |
| | | <div>Eric Fu</div> <div>Eric Fu/Reviewer</div> |



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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 |



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 Description of Support Units | 5 |
| 4.3 Test modes..... | 5 |
| 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)..... | 22 |
| 6.3.1 E.U.T. Operation | 22 |
| 6.3.2 Test Mode Description | 22 |
| 6.3.3 Test Setup Diagram..... | 22 |
| 6.3.4 Measurement Procedure and Data..... | 23 |
| 7 Test Setup Photo | 28 |
| 8 EUT Constructional Details (EUT Photos) | 28 |



4 General Information

4.1 Details of E.U.T.

| | |
|---------------|---|
| Power supply: | DC 3.91V from internal rechargeable battery which can be charged by AC/DC adapter |
|---------------|---|

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:

| Item No. | Mode No. | Manufacturer | Remark |
|-----------|--------------|-----------------------------------|------------------------------|
| Adapter1 | V1530L0B0-US | Dongguan Aohai Technology Co.,Ltd | Only the plugs are different |
| Adapter2 | V1530L0B0-EU | | |
| USB cable | BK-C-50-B | / | / |
| Battery | BA33 | Dongguan NVT Technology Co., Ltd. | / |

Remark: Adapter 1 was selected to test.

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|-------------------|
| Router | NETGEAR | DGN2200 | REF. No.SEA22A00 |
| Laptop | Lenovo | T14 | REF. No.SEA18F04 |
| Mouse | Lenovo | M-U0025-O | REF. No.:SEA24A00 |

4.3 Test modes

| | | |
|---|----|--|
| Pretest these modes to find the worst case and show the worse data in the test items: | 18 | FM mode with modulation |
| | 19 | Transfer data between the EUT and the PC+USB Cable |
| | 20 | Telecom Idle+EUT+FM+playing MP4+USB cable+Adapter+earphone |
| | 21 | Telecom Idle+EUT+FM+BT+WLAN5G+USB cable+Adapter+earphone |
| | 22 | Telecom Idle+EUT+FM+camera(Front)+USB cable+Adapter+earphone |
| | 23 | Telecom Idle+EUT+FM+camera(Back)+USB cable+Adapter+earphone |
| | 24 | Telecom Idle+EUT+FM+BT+WLAN2.4G+GNSS+OTG output |
| | 25 | GSM 850(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |
| | 26 | WCDMA Band 5(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |
| | 27 | LTE band 5(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |
| | 28 | LTE band 12(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |
| | 29 | LTE band 13(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |
| | 30 | LTE band 17(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |
| | 31 | LTE band 26(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |
| | 32 | NR_SA_N5(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |
| | 33 | NR_SA_N26(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |



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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) | $\pm 4.6\text{dB}$ |
| <p>Remark:</p> <p>The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results</p> <ul style="list-style-type: none"> – 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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Report No.: SZCR240400149707

Page: 7 of 28

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



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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 | ESCI | SEM004-02 | 2024-03-14 | 2025-03-13 |
| Measurement Software | AUDIX | e3 V8.2014-6-27a | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2023-07-07 | 2024-07-06 |
| LISN | Rohde&Schwarz | ENV216 | SEM007-01 | 2023-09-19 | 2024-09-18 |
| 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 | 2023-10-19 | 2024-10-18 |
| 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 | 2023-07-07 | 2024-07-06 |

| 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 | 2023-09-19 | 2024-09-18 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2023-07-07 | 2024-07-06 |



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400149707

Page: 9 of 28

| General used equipment | | | | | |
|---------------------------------|---|-----------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-32 | 2023-07-28 | 2024-07-27 |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-33 | 2023-07-28 | 2024-07-27 |
| 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: 23.2 °C

Humidity: 50.5 % RH

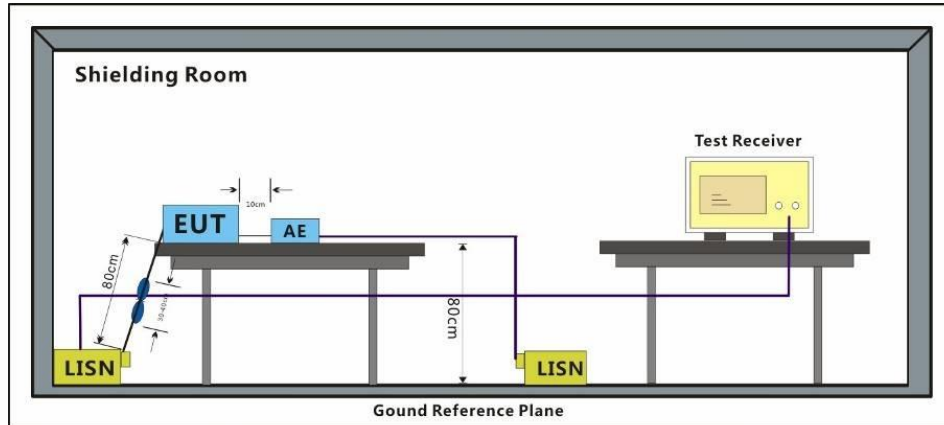
Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Pre-scan | 18 | FM mode with modulation |
| Final test | 19 | Transfer data between the EUT and the PC+USB Cable |
| Pre-scan | 20 | Telecom Idle+EUT+FM+playing MP4+USB cable+Adapter+earphone |
| Pre-scan | 21 | Telecom Idle+EUT+FM+BT+WLAN5G+USB cable+Adapter+earphone |
| Final test | 22 | Telecom Idle+EUT+FM+camera(Front)+USB cable+Adapter+earphone |
| Pre-scan | 23 | Telecom Idle+EUT+FM+camera(Back)+USB cable+Adapter+earphone |
| Pre-scan | 24 | Telecom Idle+EUT+FM+BT+WLAN2.4G+GNSS+OTG output |
| Pre-scan | 25 | GSM 850(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |



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



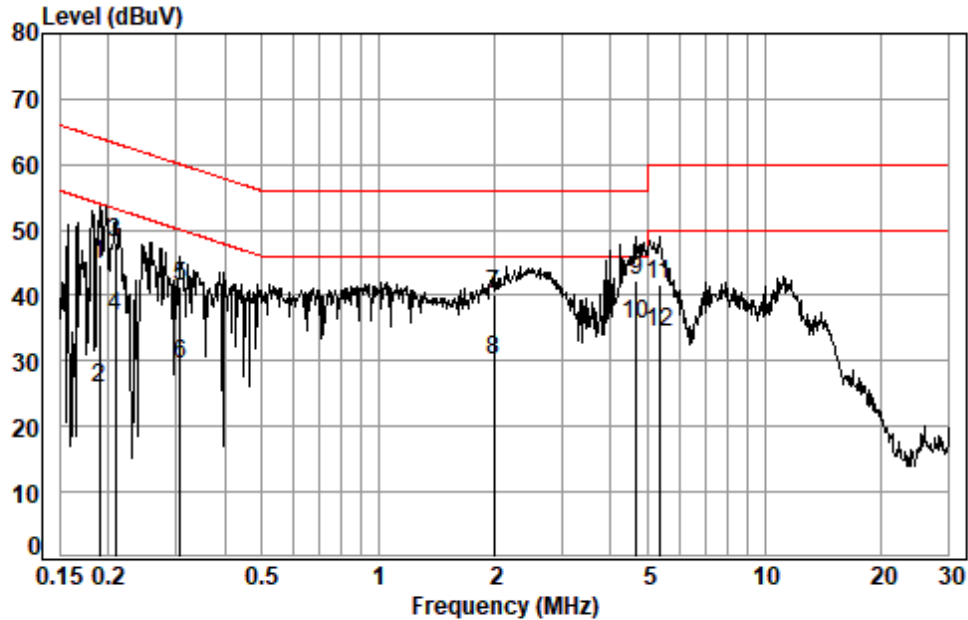
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400149707

Page: 12 of 28

Test Mode: 19; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 01497WM
Test mode: 19

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|--------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1904 | 0.02 | 10.82 | 33.80 | 44.64 | 64.02 | -19.38 | QP |
| 2 | 0.1904 | 0.02 | 10.82 | 14.97 | 25.81 | 54.02 | -28.21 | Average |
| 3 | 0.2083 | 0.02 | 10.74 | 37.44 | 48.20 | 63.27 | -15.07 | QP |
| 4 | 0.2083 | 0.02 | 10.74 | 26.17 | 36.93 | 53.27 | -16.34 | Average |
| 5 | 0.3067 | 0.03 | 10.77 | 30.46 | 41.26 | 60.06 | -18.80 | QP |
| 6 | 0.3067 | 0.03 | 10.77 | 18.70 | 29.50 | 50.06 | -20.56 | Average |
| 7 | 1.9906 | 0.07 | 10.53 | 29.53 | 40.13 | 56.00 | -15.87 | QP |
| 8 | 1.9906 | 0.07 | 10.53 | 19.58 | 30.18 | 46.00 | -15.82 | Average |
| 9 * | 4.6715 | 0.09 | 10.40 | 31.77 | 42.26 | 56.00 | -13.74 | QP |
| 10 * | 4.6715 | 0.09 | 10.40 | 25.14 | 35.63 | 46.00 | -10.37 | Average |
| 11 | 5.3332 | 0.10 | 10.49 | 31.16 | 41.75 | 60.00 | -18.25 | QP |
| 12 | 5.3332 | 0.10 | 10.49 | 23.70 | 34.29 | 50.00 | -15.71 | Average |



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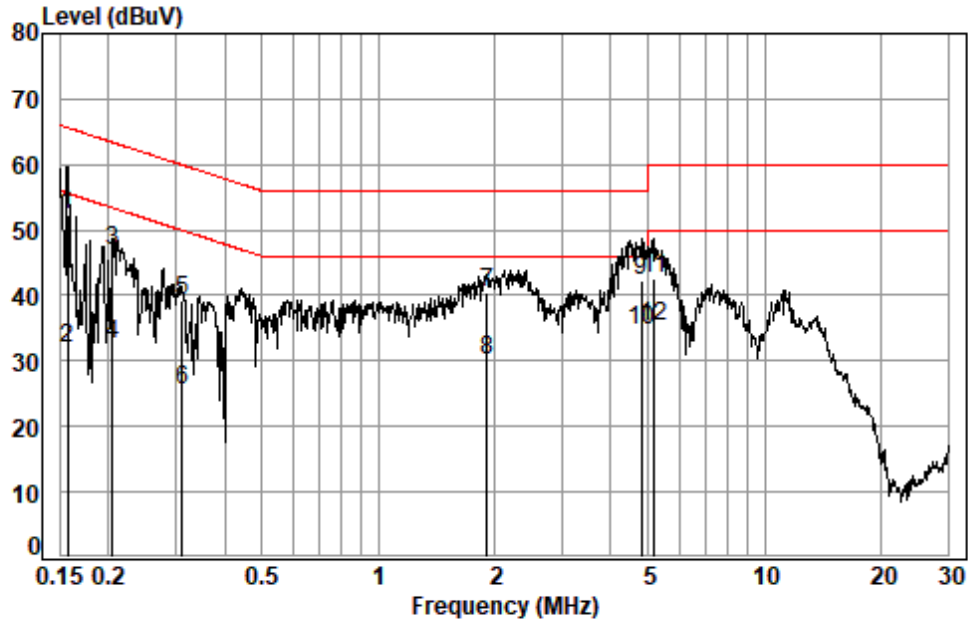
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400149707

Page: 13 of 28

Test Mode: 19; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01497WM
Test mode: 19

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|--------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 * | 0.1573 | 0.02 | 10.83 | 41.56 | 52.41 | 65.60 | -13.19 | QP |
| 2 | 0.1573 | 0.02 | 10.83 | 21.14 | 31.99 | 55.60 | -23.61 | Average |
| 3 | 0.2050 | 0.02 | 10.82 | 36.02 | 46.86 | 63.40 | -16.54 | QP |
| 4 | 0.2050 | 0.02 | 10.82 | 21.68 | 32.52 | 53.40 | -20.88 | Average |
| 5 | 0.3116 | 0.03 | 10.65 | 28.50 | 39.18 | 59.93 | -20.75 | QP |
| 6 | 0.3116 | 0.03 | 10.65 | 14.89 | 25.57 | 49.93 | -24.36 | Average |
| 7 | 1.9080 | 0.07 | 10.98 | 29.35 | 40.40 | 56.00 | -15.60 | QP |
| 8 | 1.9080 | 0.07 | 10.98 | 19.14 | 30.19 | 46.00 | -15.81 | Average |
| 9 | 4.7969 | 0.09 | 11.08 | 31.26 | 42.43 | 56.00 | -13.57 | QP |
| 10 * | 4.7969 | 0.09 | 11.08 | 23.60 | 34.77 | 46.00 | -11.23 | Average |
| 11 | 5.1937 | 0.09 | 11.11 | 31.48 | 42.68 | 60.00 | -17.32 | QP |
| 12 | 5.1937 | 0.09 | 11.11 | 24.19 | 35.39 | 50.00 | -14.61 | Average |



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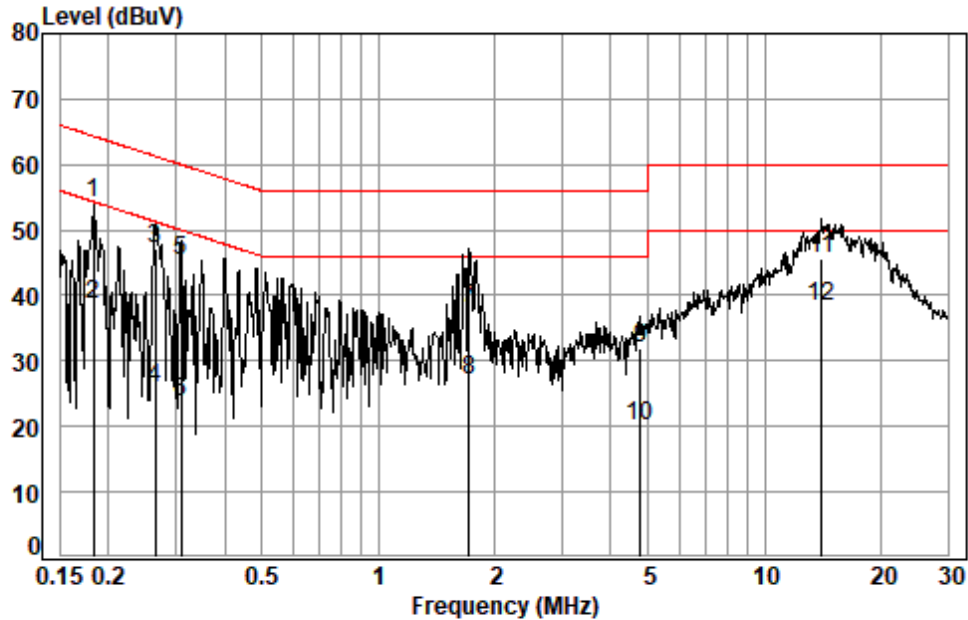
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400149707

Page: 14 of 28

Test Mode: 22; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 01497WM
Test mode: 22

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|---------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 * | 0.1835 | 0.02 | 10.87 | 43.18 | 54.07 | 64.33 | -10.26 | QP |
| 2 | 0.1835 | 0.02 | 10.87 | 27.69 | 38.58 | 54.33 | -15.75 | Average |
| 3 | 0.2644 | 0.03 | 10.76 | 36.47 | 47.26 | 61.29 | -14.03 | QP |
| 4 | 0.2644 | 0.03 | 10.76 | 15.14 | 25.93 | 51.29 | -25.36 | Average |
| 5 | 0.3083 | 0.03 | 10.77 | 34.51 | 45.31 | 60.02 | -14.71 | QP |
| 6 | 0.3083 | 0.03 | 10.77 | 12.99 | 23.79 | 50.02 | -26.23 | Average |
| 7 | 1.7162 | 0.07 | 10.67 | 27.43 | 38.17 | 56.00 | -17.83 | QP |
| 8 | 1.7162 | 0.07 | 10.67 | 16.26 | 27.00 | 46.00 | -19.00 | Average |
| 9 | 4.7716 | 0.09 | 10.38 | 21.45 | 31.92 | 56.00 | -24.08 | QP |
| 10 | 4.7716 | 0.09 | 10.38 | 9.60 | 20.07 | 46.00 | -25.93 | Average |
| 11 | 14.0629 | 0.22 | 10.57 | 34.85 | 45.64 | 60.00 | -14.36 | QP |
| 12 * | 14.0629 | 0.22 | 10.57 | 27.39 | 38.18 | 50.00 | -11.82 | Average |



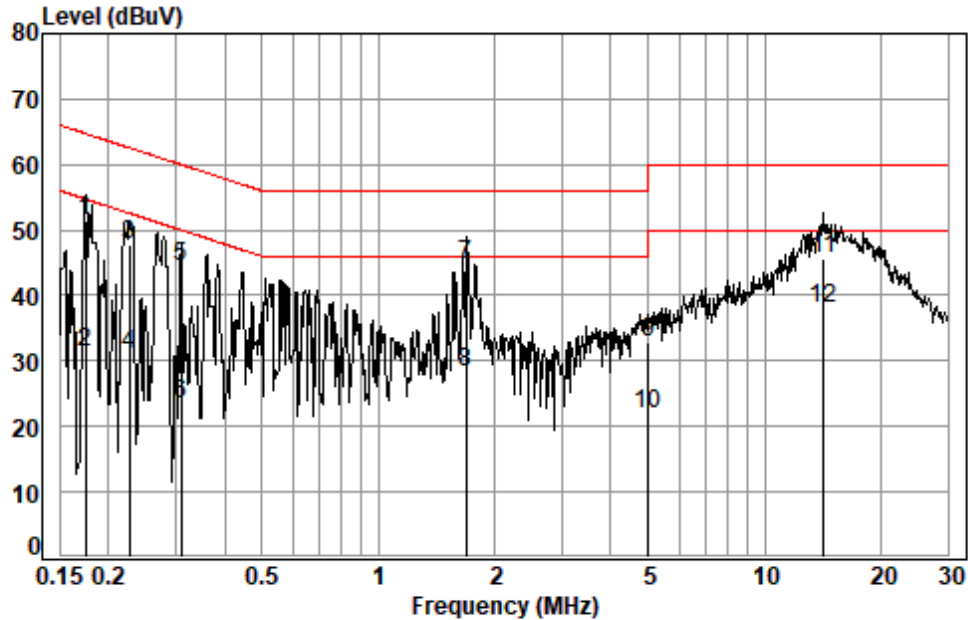
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Shenzhen Branch, Inspection & Testing Services

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Test Mode: 22; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01497WM
Test mode: 22

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|---------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1749 | 0.02 | 10.83 | 40.55 | 51.40 | 64.72 | -13.32 | QP |
| 2 | 0.1749 | 0.02 | 10.83 | 20.36 | 31.21 | 54.72 | -23.51 | Average |
| 3 | 0.2268 | 0.03 | 10.78 | 37.07 | 47.88 | 62.57 | -14.69 | QP |
| 4 | 0.2268 | 0.03 | 10.78 | 20.27 | 31.08 | 52.57 | -21.49 | Average |
| 5 | 0.3083 | 0.03 | 10.66 | 33.59 | 44.28 | 60.02 | -15.74 | QP |
| 6 | 0.3083 | 0.03 | 10.66 | 12.85 | 23.54 | 50.02 | -26.48 | Average |
| 7 * | 1.6891 | 0.07 | 10.96 | 33.76 | 44.79 | 56.00 | -11.21 | QP |
| 8 | 1.6891 | 0.07 | 10.96 | 17.29 | 28.32 | 46.00 | -17.68 | Average |
| 9 | 5.0046 | 0.09 | 11.11 | 21.51 | 32.71 | 60.00 | -27.29 | QP |
| 10 | 5.0046 | 0.09 | 11.11 | 10.58 | 21.78 | 50.00 | -28.22 | Average |
| 11 | 14.2127 | 0.22 | 10.42 | 35.00 | 45.64 | 60.00 | -14.36 | QP |
| 12 * | 14.2127 | 0.22 | 10.42 | 27.45 | 38.09 | 50.00 | -11.91 | 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: 23.5 °C

Humidity: 47.5 % RH

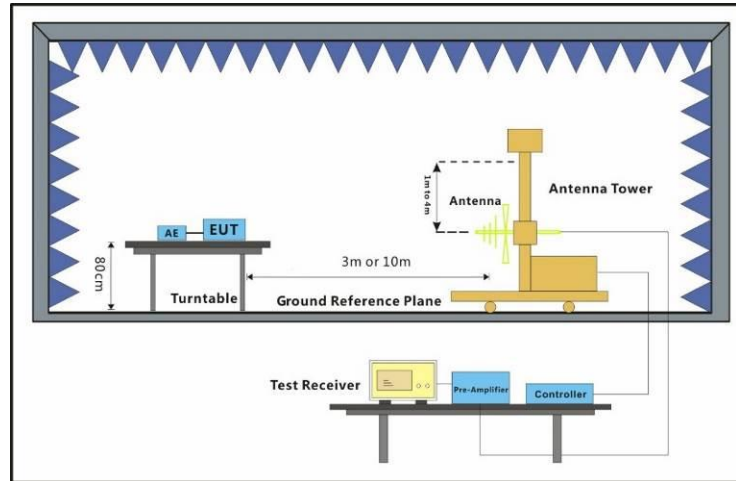
Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Pre-scan | 18 | FM mode with modulation |
| Final test | 19 | Transfer data between the EUT and the PC+USB Cable |
| Pre-scan | 20 | Telecom Idle+EUT+FM+playing MP4+USB cable+Adapter+earphone |
| Pre-scan | 21 | Telecom Idle+EUT+FM+BT+WLAN5G+USB cable+Adapter+earphone |
| Final test | 22 | Telecom Idle+EUT+FM+camera(Front)+USB cable+Adapter+earphone |
| Pre-scan | 23 | Telecom Idle+EUT+FM+camera(Back)+USB cable+Adapter+earphone |
| Pre-scan | 24 | Telecom Idle+EUT+FM+BT+WLAN2.4G+GNSS+OTG output |
| Pre-scan | 25 | GSM 850(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |



6.2.3 Test Setup Diagram



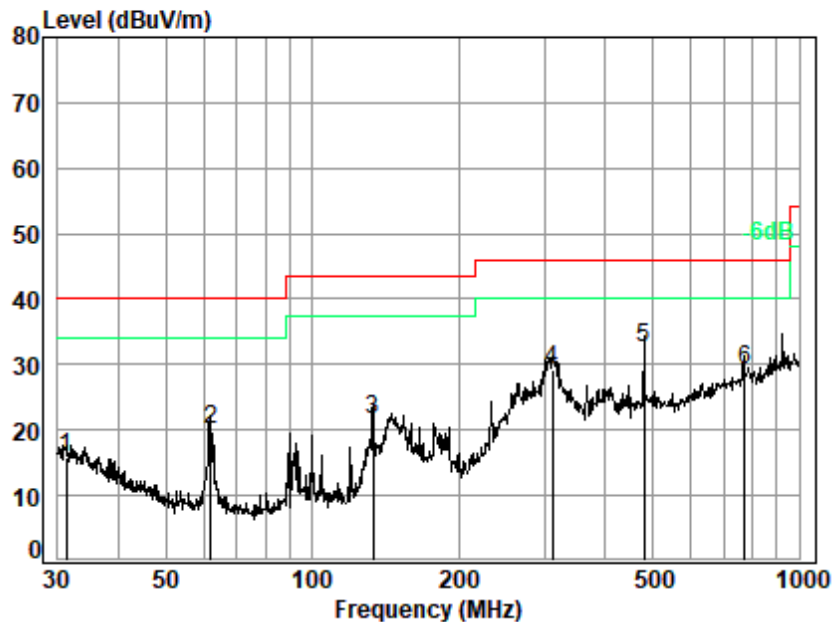
6.2.4 Measurement Procedure and Data

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



Test Mode: 19; Polarity: Horizontal

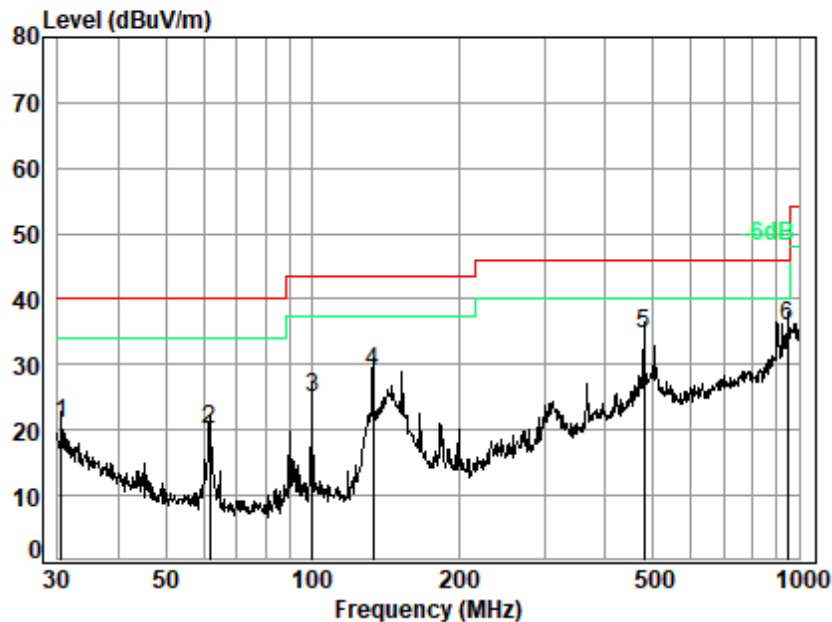


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 01497WM
Test Mode: 19

| | 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 | 31.18 | 20.65 | 0.65 | 27.79 | 22.28 | 15.79 | 40.00 | -24.21 QP |
| 2 | 61.78 | 11.29 | 0.93 | 27.70 | 35.55 | 20.07 | 40.00 | -19.93 QP |
| 3 | 133.15 | 11.21 | 1.37 | 27.45 | 36.49 | 21.62 | 43.50 | -21.88 QP |
| 4 | 311.09 | 18.41 | 2.21 | 26.80 | 35.51 | 29.33 | 46.00 | -16.67 QP |
| 5 q | 480.53 | 22.75 | 2.82 | 27.48 | 34.42 | 32.51 | 46.00 | -13.49 QP |
| 6 | 771.45 | 26.76 | 3.74 | 27.55 | 26.30 | 29.25 | 46.00 | -16.75 QP |



Test Mode: 19; Polarity: Vertical

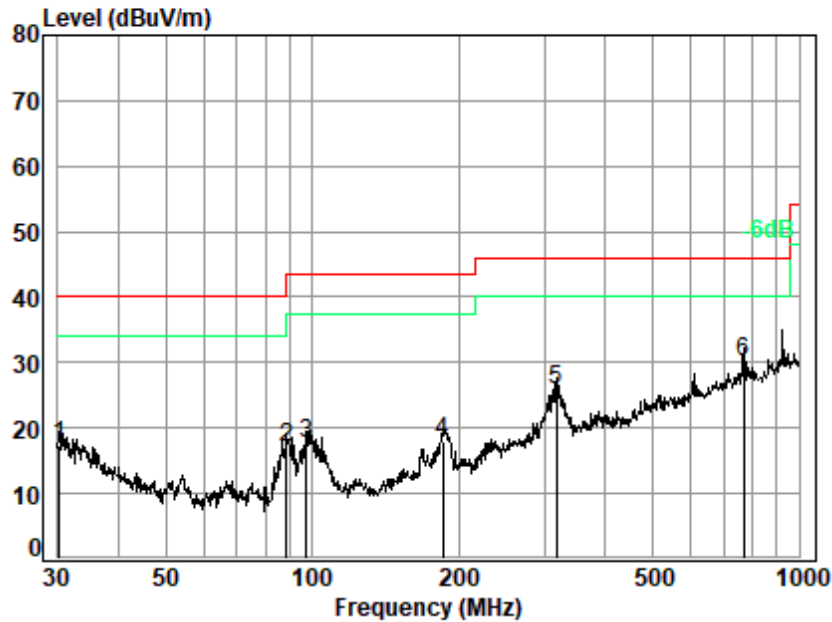


Site : chamber
Condition: 3m VERTICAL
Job No. : 01497WM
Test Mode: 19

| | 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 | 30.53 | 20.95 | 0.65 | 27.79 | 27.13 | 20.94 | 40.00 | -19.06 QP |
| 2 | 61.56 | 11.31 | 0.93 | 27.70 | 35.64 | 20.18 | 40.00 | -19.82 QP |
| 3 | 99.88 | 12.29 | 1.19 | 27.59 | 39.15 | 25.04 | 43.50 | -18.46 QP |
| 4 | 133.15 | 11.21 | 1.37 | 27.45 | 43.87 | 29.00 | 43.50 | -14.50 QP |
| 5 | 480.53 | 22.75 | 2.82 | 27.48 | 36.46 | 34.55 | 46.00 | -11.45 QP |
| 6 q | 948.76 | 28.23 | 4.22 | 26.42 | 29.95 | 35.98 | 46.00 | -10.02 QP |



Test Mode: 22; Polarity: Horizontal

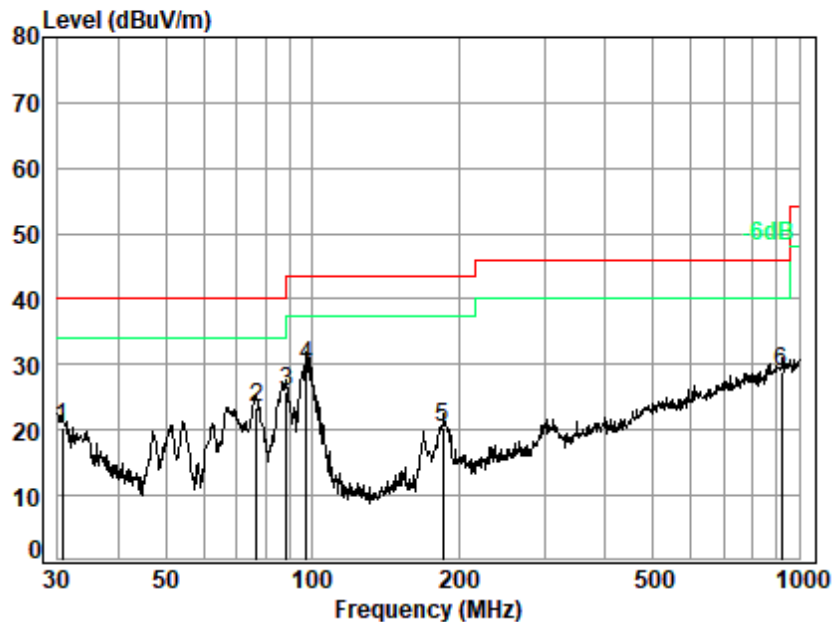


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 01497WM
Test Mode: 22

| | 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 | 30.21 | 21.10 | 0.64 | 27.79 | 23.41 | 17.36 | 40.00 | -22.64 QP |
| 2 | 88.34 | 11.52 | 1.12 | 27.62 | 32.05 | 17.07 | 43.50 | -26.43 QP |
| 3 | 97.46 | 12.19 | 1.17 | 27.60 | 31.83 | 17.59 | 43.50 | -25.91 QP |
| 4 | 185.14 | 14.27 | 1.65 | 27.23 | 29.16 | 17.85 | 43.50 | -25.65 QP |
| 5 | 317.70 | 18.46 | 2.24 | 26.82 | 31.92 | 25.80 | 46.00 | -20.20 QP |
| 6 q | 768.75 | 26.68 | 3.73 | 27.56 | 27.37 | 30.22 | 46.00 | -15.78 QP |



Test Mode: 22; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 01497WM
Test Mode: 22

| | 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 | 30.64 | 20.90 | 0.65 | 27.79 | 26.68 | 20.44 | 40.00 | -19.56 QP |
| 2 | 76.78 | 10.39 | 1.04 | 27.66 | 39.51 | 23.28 | 40.00 | -16.72 QP |
| 3 | 88.34 | 11.52 | 1.12 | 27.62 | 40.69 | 25.71 | 43.50 | -17.79 QP |
| 4 q | 97.46 | 12.19 | 1.17 | 27.60 | 44.04 | 29.80 | 43.50 | -13.70 QP |
| 5 | 185.79 | 14.29 | 1.65 | 27.23 | 31.66 | 20.37 | 43.50 | -23.13 QP |
| 6 | 922.52 | 28.19 | 4.15 | 26.60 | 23.31 | 29.05 | 46.00 | -16.95 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: 22.0 °C

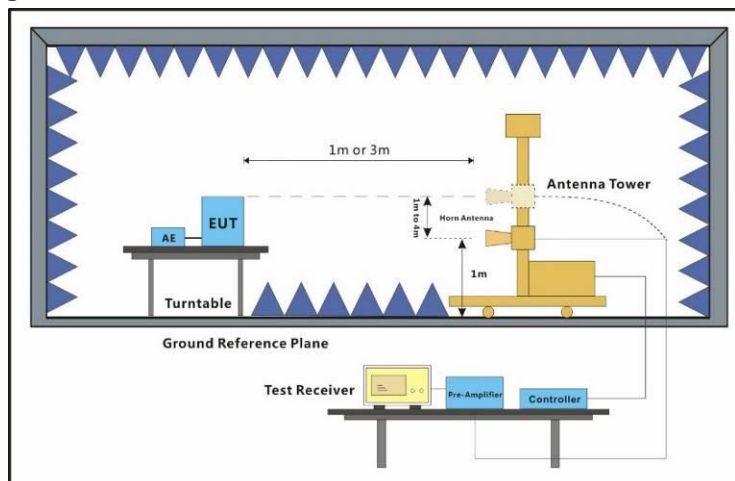
Humidity: 62.2 % RH

Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Pre-scan | 18 | FM mode with modulation |
| Final test | 19 | Transfer data between the EUT and the PC+USB Cable |
| Pre-scan | 20 | Telecom Idle+EUT+FM+playing MP4+USB cable+Adapter+earphone |
| Pre-scan | 21 | Telecom Idle+EUT+FM+BT+WLAN5G+USB cable+Adapter+earphone |
| Final test | 22 | Telecom Idle+EUT+FM+camera(Front)+USB cable+Adapter+earphone |
| Pre-scan | 23 | Telecom Idle+EUT+FM+camera(Back)+USB cable+Adapter+earphone |
| Pre-scan | 24 | Telecom Idle+EUT+FM+BT+WLAN2.4G+GNSS+OTG output |
| Pre-scan | 25 | GSM 850(RX)+EUT+FM+BT+WLAN2.4G+USB cable+Adapter+earphone |

6.3.3 Test Setup Diagram



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400149707

Page: 23 of 28

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



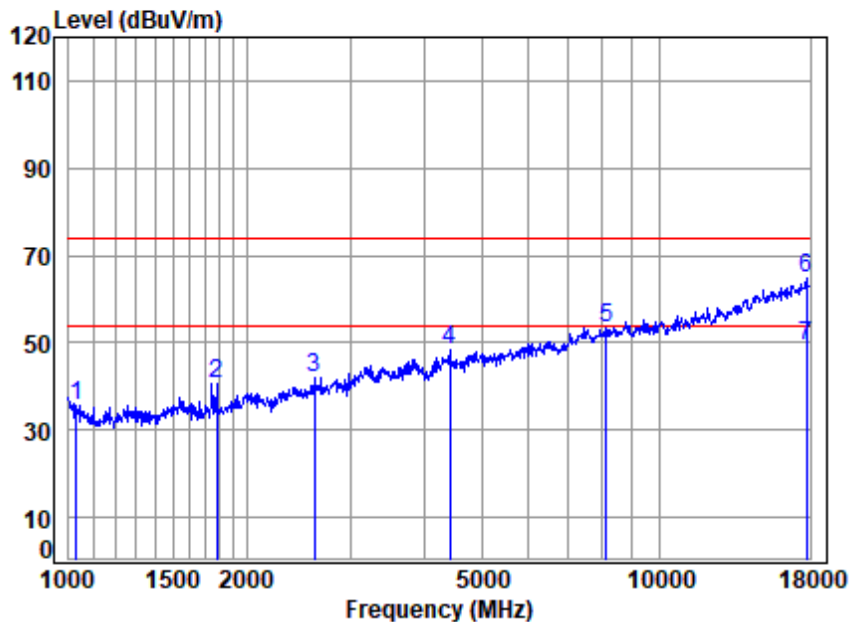
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Test Mode: 19; Polarity: Horizontal

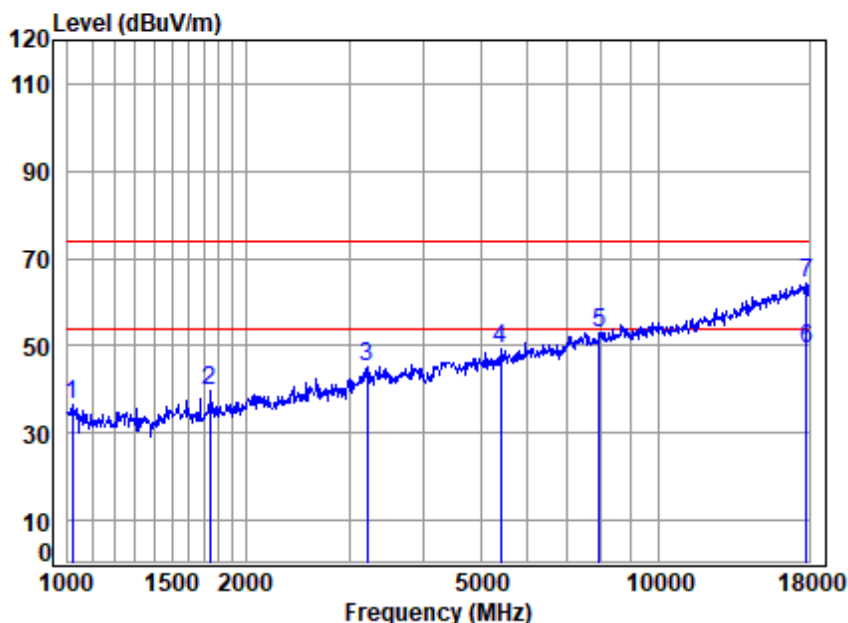


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01497WM
Mode : 19

| | 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 1029.325 | 3.25 | 25.36 | 38.31 | 45.28 | 35.58 | 74.00 | -38.42 | Peak |
| 2 1782.602 | 4.43 | 26.93 | 38.43 | 47.71 | 40.64 | 74.00 | -33.36 | Peak |
| 3 2610.661 | 5.27 | 30.28 | 36.93 | 43.41 | 42.03 | 74.00 | -31.97 | Peak |
| 4 4417.841 | 7.07 | 34.59 | 35.78 | 42.68 | 48.56 | 74.00 | -25.44 | Peak |
| 5 8129.664 | 10.35 | 36.50 | 36.70 | 43.40 | 53.55 | 74.00 | -20.45 | Peak |
| 6 p17741.740 | 15.00 | 43.84 | 37.62 | 43.42 | 64.64 | 74.00 | -9.36 | Peak |
| 7 q17741.740 | 15.00 | 43.84 | 37.62 | 28.13 | 49.35 | 54.00 | -4.65 | Average |



Test Mode: 19; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 01497WM
Mode : 19

| | | 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 | 1017.493 | 3.23 | 25.74 | 38.30 | 45.78 | 36.45 | 74.00 | -37.55 | Peak |
| 2 | 1741.856 | 4.38 | 26.70 | 38.42 | 47.08 | 39.74 | 74.00 | -34.26 | Peak |
| 3 | 3214.623 | 5.87 | 32.67 | 36.13 | 42.69 | 45.10 | 74.00 | -28.90 | Peak |
| 4 | 5408.529 | 7.75 | 34.62 | 35.18 | 41.98 | 49.17 | 74.00 | -24.83 | Peak |
| 5 | 7943.838 | 10.04 | 36.41 | 36.51 | 43.21 | 53.15 | 74.00 | -20.85 | Peak |
| 6 | q17793.090 | 15.03 | 43.89 | 37.63 | 28.17 | 49.46 | 54.00 | -4.54 | Average |
| 7 | p17793.090 | 15.03 | 43.89 | 37.63 | 42.89 | 64.18 | 74.00 | -9.82 | Peak |



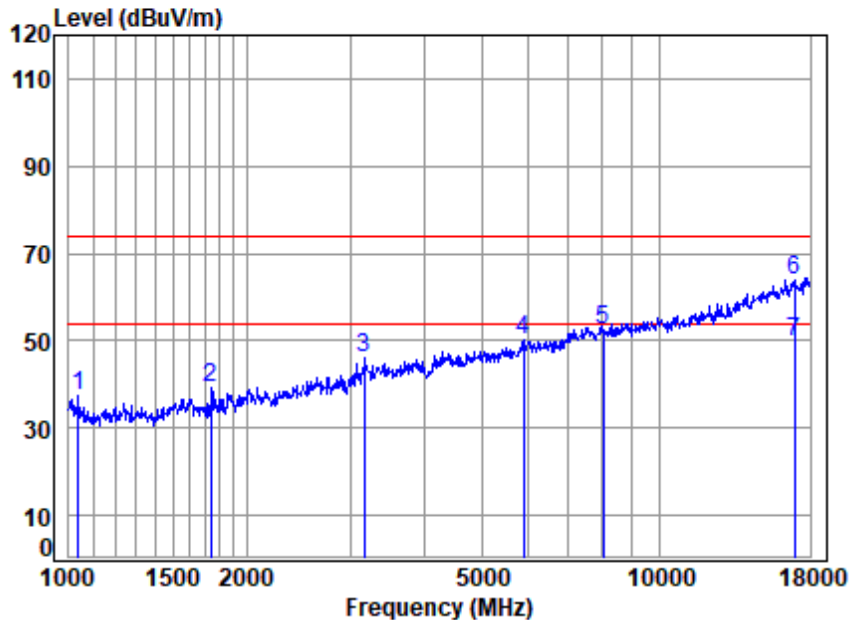
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Report No.: SZCR240400149707

Page: 26 of 28

Test Mode: 22; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01497WM
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 1038.290 | 3.27 | 25.07 | 38.31 | 47.59 | 37.62 | 74.00 | -36.38 | Peak |
| 2 1741.856 | 4.38 | 26.70 | 38.42 | 46.77 | 39.43 | 74.00 | -34.57 | Peak |
| 3 3168.500 | 5.81 | 32.65 | 36.13 | 43.62 | 45.95 | 74.00 | -28.05 | Peak |
| 4 5898.442 | 8.10 | 34.59 | 34.95 | 42.24 | 49.98 | 74.00 | -24.02 | Peak |
| 5 8036.214 | 10.17 | 36.40 | 36.60 | 42.53 | 52.50 | 74.00 | -21.50 | Peak |
| 6 p16939.940 | 14.55 | 43.16 | 37.50 | 43.54 | 63.75 | 74.00 | -10.25 | Peak |
| 7 q16939.940 | 14.55 | 43.16 | 37.50 | 29.35 | 49.56 | 54.00 | -4.44 | Average |

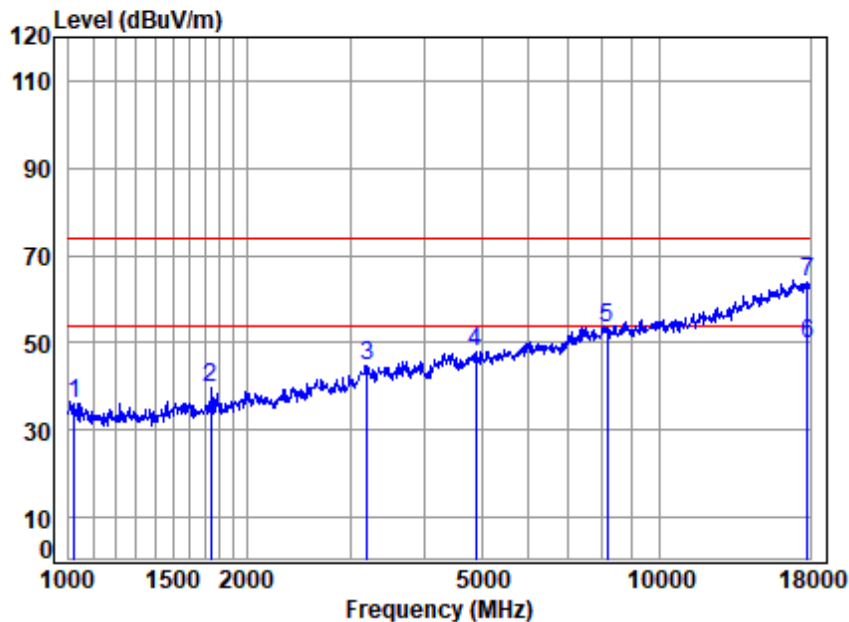


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Test Mode: 22; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 01497WM
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 | 1023.392 | 3.24 | 25.55 | 38.31 | 45.74 | 36.22 | 74.00 | -37.78 | Peak |
| 2 | 1741.856 | 4.38 | 26.70 | 38.42 | 47.06 | 39.72 | 74.00 | -34.28 | Peak |
| 3 | 3196.094 | 5.84 | 32.87 | 36.13 | 42.27 | 44.85 | 74.00 | -29.15 | Peak |
| 4 | 4888.151 | 7.36 | 34.65 | 35.46 | 41.54 | 48.09 | 74.00 | -25.91 | Peak |
| 5 | 8176.795 | 10.44 | 36.55 | 36.75 | 42.97 | 53.21 | 74.00 | -20.79 | Peak |
| 6 | q17793.090 | 15.03 | 43.89 | 37.63 | 28.37 | 49.66 | 54.00 | -4.34 | Average |
| 7 | p17793.090 | 15.03 | 43.89 | 37.63 | 42.63 | 63.92 | 74.00 | -10.08 | Peak |



7 Test Setup Photo

Refer to Appendix A.3 - 15B Setup Photos.

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos

- End of the Report -

