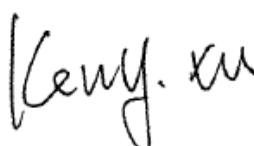


**TEST REPORT**

|                                    |   |
|------------------------------------|---|
| <b>Application No.:</b>            | SZCR2404001176AT  |
| <b>Applicant:</b>                  | Grab Technology LLC   |
| <b>Address of Applicant:</b>       | 113 Cherry ST PMB 78120 Seattle, WA 98104 USA   |
| <b>Manufacturer:</b>               | GrabTaxi Holdings Pte. Ltd.   |
| <b>Address of Manufacturer:</b>    | 3 Media Cl, Singapore 138498  |
| <b>Factory:</b>                    | SKY LIGHT Electronic (ShenZhen) Limited   |
| <b>Address of Factory:</b>         | No. 8 & 9 Building, AnTuoShan High-tech Industrial Area, Xinsha Road, Shajing, Bao'An, Shenzhen, China. |
| <b>Equipment Under Test (EUT):</b> |   |
| <b>EUT Name:</b>                   | KartaDashcam  |
| <b>Model No.:</b>                  | GSP   |
| <b>FCC ID:</b>                     | 2BB5A-GSP   |
| <b>Standard(s) :</b>               | 47 CFR Part 2<br>47 CFR Part 22 subpart H<br>47 CFR Part 24 subpart E                                   |
| <b>Date of Receipt:</b>            | 2024-04-03  |
| <b>Date of Test:</b>               | 2024-04-12 to 2024-04-17  |
| <b>Date of Issue:</b>              | 2024-04-29  |
| <b>Test Result:</b>                | <b>Pass*</b>  |

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



Keny Xu  
EMC Laboratory Manager



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

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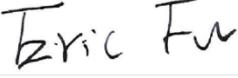
**SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch**

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400117606

Page: 2 of 22

| <b>Revision Record</b> |                |             |                 |               |
|------------------------|----------------|-------------|-----------------|---------------|
| <b>Version</b>         | <b>Chapter</b> | <b>Date</b> | <b>Modifier</b> | <b>Remark</b> |
| 01                     |                | 2024-04-29  |                 | Original      |
|                        |                |             |                 |               |
|                        |                |             |                 |               |

|                                 |   |                                 |  |
|---------------------------------|---|---------------------------------|--|
| <b>Authorized for issue by:</b> |   |                                 |  |
|                                 |    | <b>Leo Lai/Project Engineer</b> |  |
|                                 |  | <b>Eric Fu/Reviewer</b>         |  |
|                                 |   |                                 |  |



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## 2 Test Summary

| Test Item  | FCC Rule No.                    | Requirements   | Verdict |
|--|---------------------------------|--|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§22.913,<br>§24.232 | ERP≤7W(WCDMA band V)<br>EIRP≤2W(WCDMA band II)<br>EIRP≤1W(WCDMA band IV)                 | PASS    |
| Peak-Average Ratio                               | §22.913<br>§24.232              | ≤13dB  | PASS    |
| Bandwidth  | §2.1049(h)                      | OBW: No limit<br>EBW: No limit   | PASS    |
| Band Edge Compliance                             | §2.1051,<br>§22.917,<br>§24.238 | ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | PASS    |
| Spurious emissions at antenna terminals          | §2.1051,<br>§22.917,<br>§24.238 | ≤ -13dBm   | PASS    |
| Field strength of spurious radiation             | §2.1051,<br>§22.917,<br>§24.238 | ≤ -13dBm   | PASS    |
| Frequency stability                              | §2.1055,<br>§22.355,<br>§24.235 | ≤ ±2.5ppm.   | PASS    |



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## 4 General Information

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

|                                     |  |
|-------------------------------------|--|
| Power supply:                       | DC 12-24V                              |
| Tested Voltage:                     | DC 12V                                 |
| Cable Loss (for RF conducted test): | 1dB                                    |
| Sample Type:                        | Mobile production                      |
| Support Network:                    | RMC, HSDPA, HSUPA                      |
| Operation Frequency Band:           | UMTS FDD Band II/IV/V                  |
| Modulation Type:                    | QPSK for WCDMA                         |
| Supported Channel Bandwidth:        | 5MHz for WCDMA                         |
| UMTS Power Class:                   | Level 3                                |
| Antenna Type:                       | PIFA Antenna                           |
| Antenna Gain:                       | WCDMA B2:2dBi; B4:1.71dBi; B5:-1.47dBi |

### 4.2 Test Frequency

| Test Mode     | TX | RF Channel   |              |              |
|---------------|----|--------------|--------------|--------------|
|               |    | Low(L)       | Middle (M)   | High (H)     |
| WCDMA Band V  | TX | Channel 4132 | Channel 4183 | Channel 4233 |
|               |    | 826.4 MHz    | 836.6 MHz    | 846.6 MHz    |
| Test Mode     | TX | RF Channel   |              |              |
|               |    | Low(L)       | Middle (M)   | High (H)     |
| WCDMA Band IV | TX | Channel 1312 | Channel 1413 | Channel 1513 |
|               |    | 1710 MHz     | 1732.6 MHz   | 1755 MHz     |
| Test Mode     | TX | RF Channel   |              |              |
|               |    | Low(L)       | Middle (M)   | High (H)     |
| WCDMA Band II | TX | Channel 9262 | Channel 9400 | Channel 9538 |
|               |    | 1852.4 MHz   | 1880.0 MHz   | 1907.6 MHz   |

### 4.3 Test Environment

| Environment Parameter | Selected Values During Tests |          |
|-----------------------|------------------------------|----------|
| Temperature:          | TL                           | -10°C    |
|                       | TN                           | +20°C    |
|                       | TH                           | +50°C    |
| Voltage:              | VL                           | 10.2 Vdc |

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|  |    |          |
|--|----|----------|
|  | VN | 12 Vdc   |
|  | VH | 13.8 Vdc |

NOTE: VL= lower extreme test voltage  
 VN= nominal voltage  
 VH= upper extreme test voltage  
 TL= lower extreme test temperature  
 TN= normal temperature  
 TH= upper extreme test temperature

#### 4.4 Description of Support Units

| Description | Manufacturer | Model No. | Serial No.        |
|-------------|--------------|-----------|-------------------|
| DC Source   | Zhaoxin      | PS-3005D  | REF. No.SEM011-10 |

#### 4.5 Measurement Uncertainty

| No. | Item                            | Measurement Uncertainty  |
|-----|---------------------------------|--|
| 1   | Radio Frequency                 | $\pm 5.4 \times 10^{-8}$   |
| 2   | Duty cycle                      | $\pm 0.3\%$  |
| 3   | Occupied Bandwidth              | $\pm 3\%$  |
| 4   | RF conducted power              | $\pm 0.8\text{dB}$   |
| 5   | RF power density                | $\pm 0.4\text{dB}$   |
| 6   | Conducted Spurious emissions    | $\pm 2.7\text{dB}$   |
| 7   | Radiated Spurious emission test | $\pm 3.1\text{dB}$ (Below 1GHz)<br>$\pm 4.4\text{dB}$ (Above 1GHz) |
| 8   | Temperature test                | $\pm 1^\circ\text{C}$  |
| 9   | Humidity test                   | $\pm 3\%$  |
| 10  | Supply voltages                 | $\pm 1.5\%$  |
| 11  | Time                            | $\pm 3\%$  |

#### 4.6 Test Location

All tests were performed at:

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No tests were sub-contracted.

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## 4.7 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.

## 4.8 Deviation from Standards

None

## 4.9 Abnormalities from Standard Conditions

None



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## 5 Equipment List

| <b>RF conducted test</b>                    |                              |                  |                      |                  |                      |
|---|------------------------------|------------------|----------------------|------------------|----------------------|
| <b>Test Equipment</b>                       | <b>Manufacturer</b>          | <b>Model No.</b> | <b>Inventory No.</b> | <b>Cal. Date</b> | <b>Cal. Due date</b> |
| Programmable DC Source                      | Chroma                       | 62024P-80-60     | SEM011-09            | 2023/07/11       | 2024/07/10           |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002          | SEM002-15            | 2024/03/19       | 2025/03/18           |
| Spectrum Analyzer                           | Rohde & Schwarz              | FSV40            | SEM008-04            | 2024/03/15       | 2025/03/14           |
| Measurement Software                        | TST                          | TST PASS V2.0    | N/A                  | N/A              | N/A                  |
| Attenuator                                  | Huber+Suhner                 | 6620_SMA-50-1    | SEM021-09            | 2023/07/11       | 2024/07/10           |
| Universal Radio Communication Tester        | Rohde & Schwarz              | CMW 500          | SEM010-03            | 2024/03/14       | 2025/03/13           |
| Power Sensor                                | KEYSIGHT                     | U2021XA          | SEM009-15            | 2024/03/15       | 2025/03/14           |

| <b>RE in Chamber</b>         |                     |                   |                      |                  |                      |
|------------------------------|---------------------|-------------------|----------------------|------------------|----------------------|
| <b>Test Equipment</b>        | <b>Manufacturer</b> | <b>Model No.</b>  | <b>Inventory No.</b> | <b>Cal. Date</b> | <b>Cal. Due date</b> |
| Trilog-Broadband Antenna     | Schwarzbeck         | VULB9168          | SEM003-33            | 2021/09/25       | 2024/09/24           |
| MXE EMI receiver             | Agilent             | N9038A            | SEM004-05            | 2023/07/11       | 2024/07/10           |
| Pre-amplifier                | HP                  | 8447D             | SEM005-02            | 2023/07/11       | 2024/07/10           |
| Spectrum Analyzer            | Rohde & Schwarz     | 101288            | SEM004-08            | 2023/07/11       | 2024/07/10           |
| Low Noise Amplifier          | CLAVIIO             | BDLNA-0118-352810 | SEM005-05            | 2023/07/11       | 2024/07/10           |
| Substitution Antenna         | Schwarzbeck         | VULB9168          | SEM003-18            | 2022/08/07       | 2025/08/06           |
| Signal Generator(9kHz-40GHz) | N5173B              | MY53270267        | Agilent              | 2023/07/11       | 2024/07/10           |
| Pre-amplifier                | HP                  | 8447D             | SEM005-02            | 2023/07/11       | 2024/07/10           |
| Broad-Band Horn Antenna      | Schwarzbeck         | BBHA 9170         | SEM003-15            | 2021/07/11       | 2024/07/10           |
| Broad-Band Horn Antenna      | Schwarzbeck         | BBHA 9120D        | SEM003-32            | 2021/09/26       | 2024/09/25           |
| Double-ridged waveguide horn | ETS-LINDGREN        | 3117              | SEM003-34            | 2021/09/25       | 2024/09/24           |
| Spectrum Analyzer            | Rohde & Schwarz     | 101288            | SEM004-08            | 2023/07/11       | 2024/07/10           |
| Low Noise Amplifier          | CLAVIIO             | BDLNA-0118-352810 | SEM005-05            | 2023/07/11       | 2024/07/10           |



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

SZEMC-TRF-01 Rev. A/1

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|                                      |                                    |             |           |            |            |
|--------------------------------------|------------------------------------|-------------|-----------|------------|------------|
| Pre-amplifier                        | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2023/07/11 | 2024/07/10 |
| Pre-amplifier                        | Rohde & Schwarz                    | CH14-H052   | SEM005-17 | 2023/07/11 | 2024/07/10 |
| Substitution Antenna                 | ETS-Lindgren                       | 3142C       | SEM003-01 | 2023/06/25 | 2026/06/24 |
| Universal Radio Communication Tester | Rohde & Schwarz                    | CMW 500     | SEM010-03 | 2024/03/14 | 2025/03/13 |

## 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 Radio Spectrum Matter Test Results

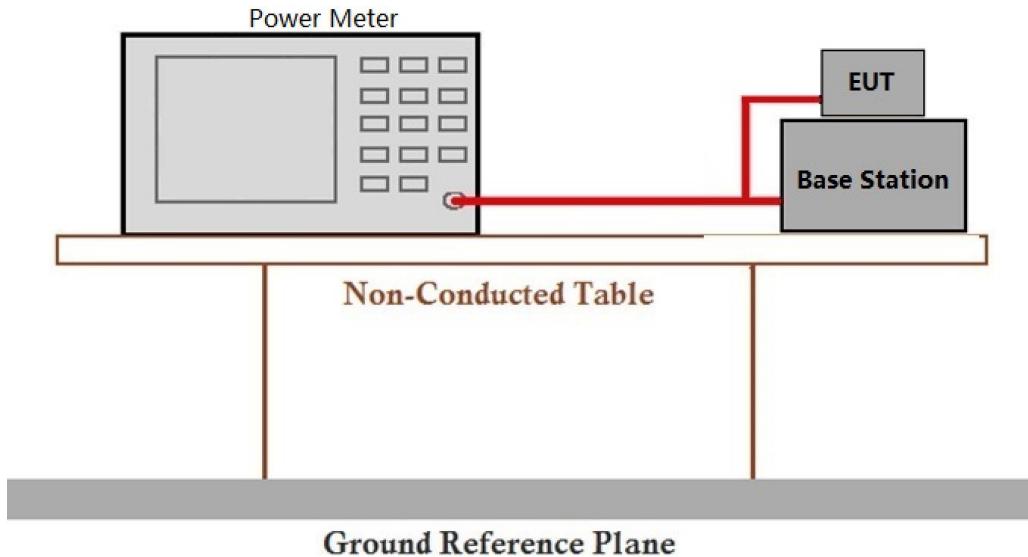
### 6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232  
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01  
Limit:  $ERP \leq 7W$  (WCDMA BAND V)  
 $EIRP \leq 2W$  (WCDMA BAND II)  
 $EIRP \leq 1W$  (WCDMA Band IV)

#### 6.1.1 E.U.T. Operation

Operating Environment:  
Temperature: 21.5 °C      Humidity: 53.5 % RH      Atmospheric Pressure: 1020 mbar  
Test mode: 31: TX mode\_Keep the EUT in transmitting mode

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

Please refer to Appendix test data.



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## 6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤13dB

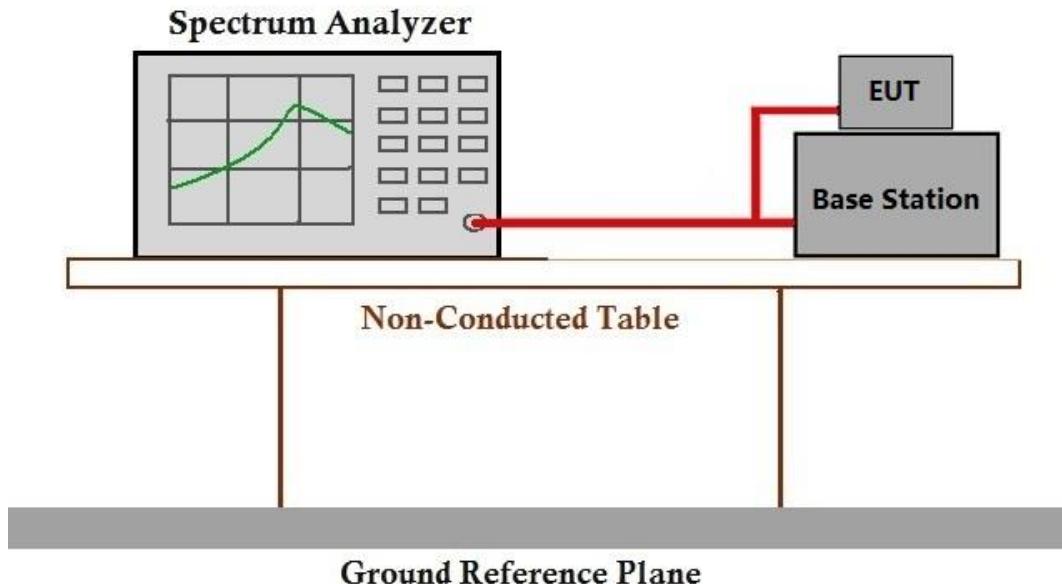
### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C      Humidity: 53.5 % RH      Atmospheric Pressure: 1020 mbar

Test mode: 31: TX mode\_Keep the EUT in transmitting mode

### 6.2.2 Test Setup Diagram



### 6.2.3 Measurement Data

Please refer to Appendix test data.



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### 6.3 Bandwidth

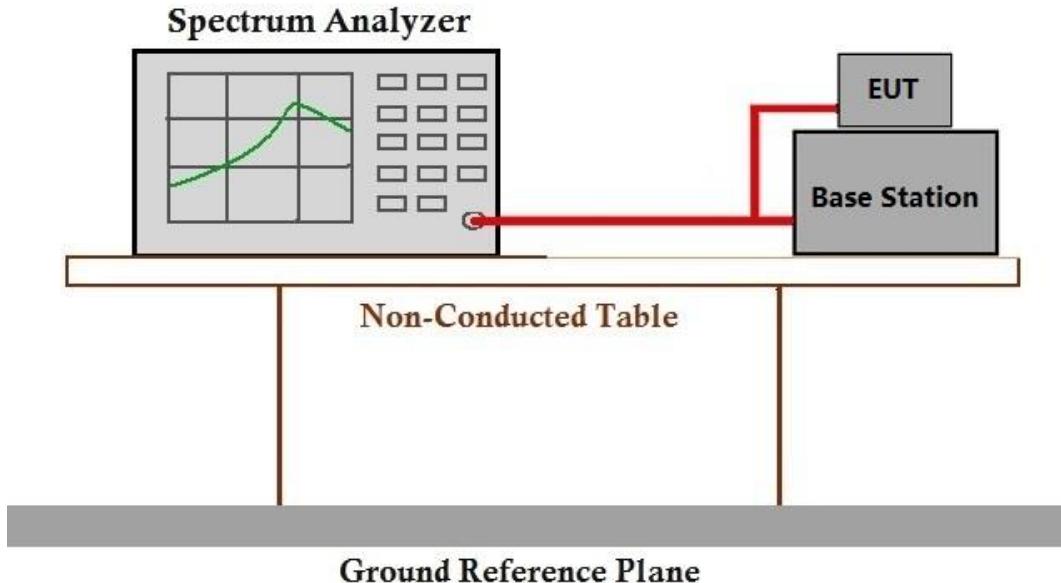
Test Requirement: §2.1049(h)  
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01  
Limit: OBW: No limit  
EBW: No limit

#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C      Humidity: 53.5 % RH      Atmospheric Pressure: 1020 mbar  
Test mode: 31: TX mode\_Keep the EUT in transmitting mode

#### 6.3.2 Test Setup Diagram



#### 6.3.3 Measurement Data

Please refer to Appendix test data.

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## 6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit:  $\leq -13\text{dBm}/1\% \cdot \text{EBW}$ , in 1 MHz bands immediately outside and adjacent to the frequency block.

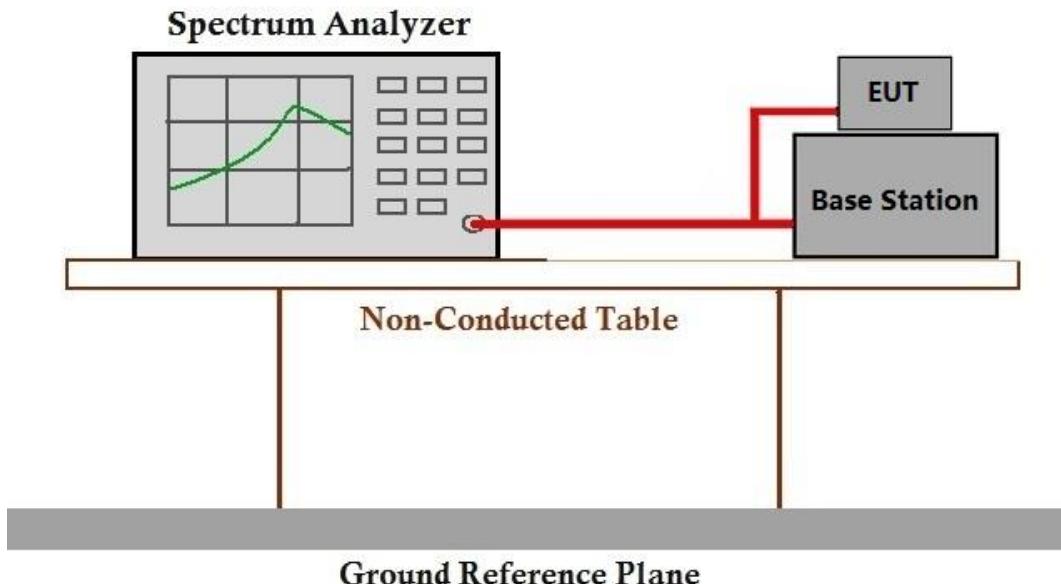
### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode: 31: TX mode\_Keep the EUT in transmitting mode

### 6.4.2 Test Setup Diagram



### 6.4.3 Measurement Data

Please refer to Appendix test data.



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### 6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit:  $\leq -13\text{dBm}$

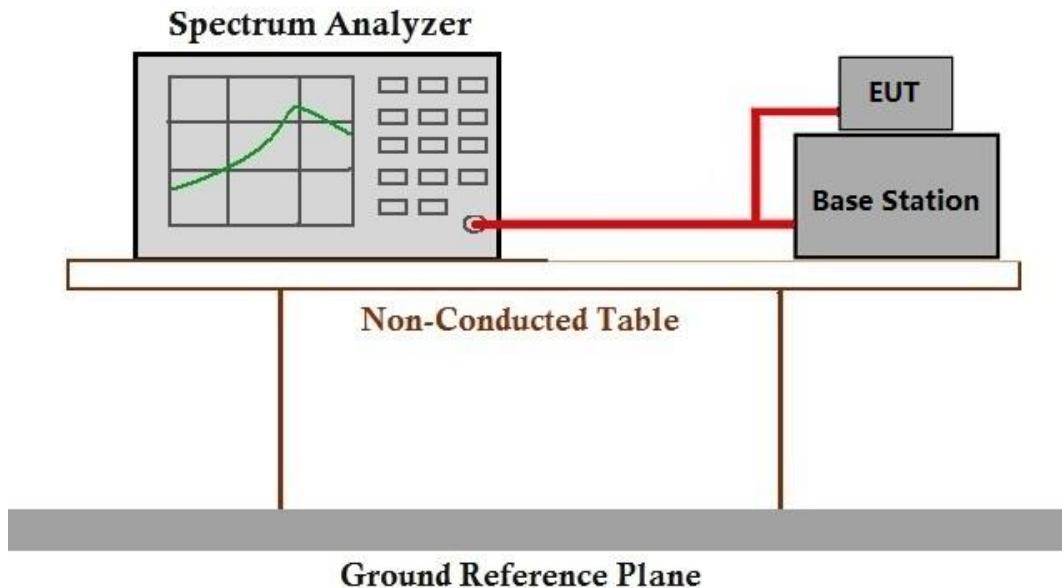
#### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode: 31: TX mode\_Keep the EUT in transmitting mode

#### 6.5.2 Test Setup Diagram



#### 6.5.3 Measurement Data

Please refer to Appendix test data.

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## 6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit:  $\leq -13\text{dBm}$

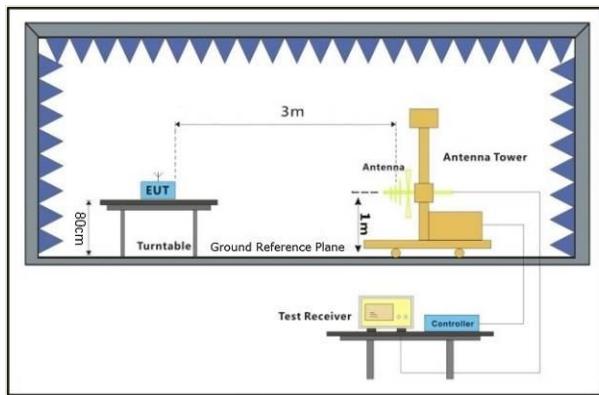
### 6.6.1 E.U.T. Operation

Operating Environment:

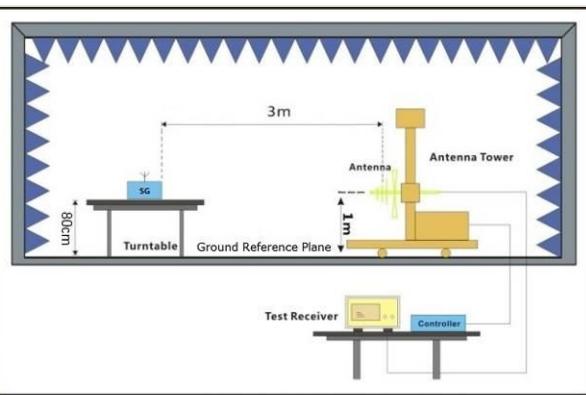
Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode: 31: TX mode\_Keep the EUT in transmitting mode

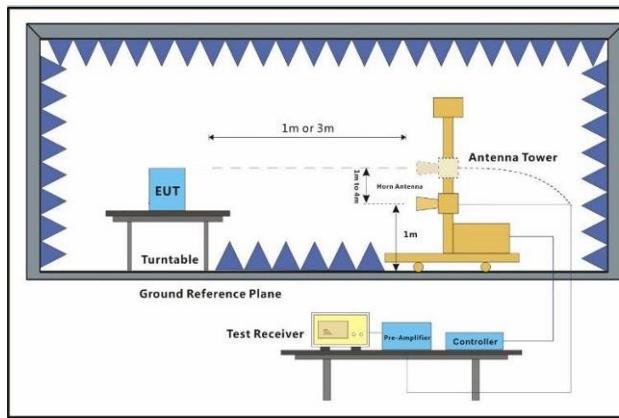
### 6.6.2 Test Setup Diagram



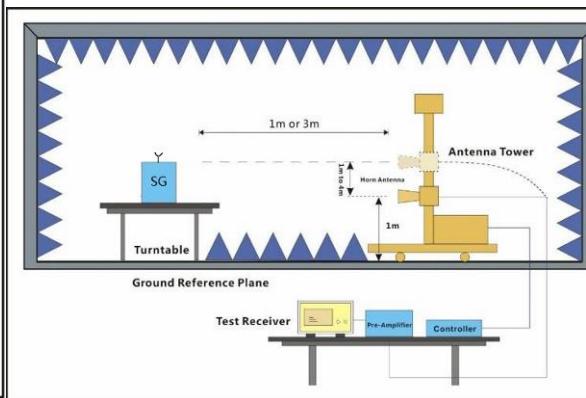
EUT



Substitute Antenna+Signal Generator



EUT



Substitute Antenna+Signal Generator



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### 6.6.3 Measurement Procedure and Data

**Test Procedure:**

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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| WCDMA BAND II-Low channel |            |            |                 |                  |                 |                    |                    |        |
|---------------------------|------------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)           | EIRP (dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3704.8                    | -54.08     | -13        | -41.08          | -58.96           | 3.29            | 8.17               | Horizontal         | Pass   |
| 5557.2                    | -52.75     | -13        | -39.75          | -58.96           | 4.24            | 10.45              | Horizontal         | Pass   |
| 7409.6                    | -48.15     | -13        | -35.15          | -55.09           | 4.19            | 11.13              | Horizontal         | Pass   |
| 3704.8                    | -55.19     | -13        | -42.19          | -60.07           | 3.29            | 8.17               | Vertical           | Pass   |
| 5557.2                    | -52.24     | -13        | -39.24          | -58.45           | 4.24            | 10.45              | Vertical           | Pass   |
| 7409.6                    | -49.01     | -13        | -36.01          | -55.95           | 4.19            | 11.13              | Vertical           | Pass   |

| WCDMA BAND II-Middle channel |            |            |                 |                  |                 |                    |                    |        |
|------------------------------|------------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)              | EIRP (dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3760                         | -54.98     | -13        | -41.98          | -59.86           | 3.29            | 8.17               | Horizontal         | Pass   |
| 5640                         | -51.48     | -13        | -38.48          | -57.69           | 4.24            | 10.45              | Horizontal         | Pass   |
| 7520                         | -48.43     | -13        | -35.43          | -55.955          | 4.215           | 11.74              | Horizontal         | Pass   |
| 3760                         | -54.95     | -13        | -41.95          | -59.83           | 3.29            | 8.17               | Vertical           | Pass   |
| 5640                         | -53.08     | -13        | -40.08          | -59.29           | 4.24            | 10.45              | Vertical           | Pass   |
| 7520                         | -48.19     | -13        | -35.19          | -55.715          | 4.215           | 11.74              | Vertical           | Pass   |

| WCDMA BAND II-High channel |            |            |                 |                  |                 |                    |                    |        |
|----------------------------|------------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)            | EIRP (dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3815.2                     | -55.19     | -13        | -42.19          | -60.07           | 3.29            | 8.17               | Horizontal         | Pass   |
| 5722.8                     | -52.18     | -13        | -39.18          | -58.39           | 4.24            | 10.45              | Horizontal         | Pass   |
| 7630.4                     | -48.64     | -13        | -35.64          | -56.165          | 4.215           | 11.74              | Horizontal         | Pass   |
| 3815.2                     | -55.45     | -13        | -42.45          | -60.33           | 3.29            | 8.17               | Vertical           | Pass   |
| 5722.8                     | -51.91     | -13        | -38.91          | -58.12           | 4.24            | 10.45              | Vertical           | Pass   |
| 7630.4                     | -49.3      | -13        | -36.3           | -56.825          | 4.215           | 11.74              | Vertical           | Pass   |

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| WCDMA Band IV-Low channel |            |            |                 |                  |                 |                    |                    |        |
|---------------------------|------------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)           | EIRP (dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3424.8                    | -54.37     | -13        | -41.37          | -58.33           | 2.96            | 6.92               | Horizontal         | Pass   |
| 5137.2                    | -51.39     | -13        | -38.39          | -57.27           | 4.26            | 10.14              | Horizontal         | Pass   |
| 6849.6                    | -49.92     | -13        | -36.92          | -56.205          | 4.205           | 10.49              | Horizontal         | Pass   |
| 3424.8                    | -54.14     | -13        | -41.14          | -58.1            | 2.96            | 6.92               | Vertical           | Pass   |
| 5137.2                    | -51.28     | -13        | -38.28          | -57.16           | 4.26            | 10.14              | Vertical           | Pass   |
| 6849.6                    | -49.82     | -13        | -36.82          | -56.105          | 4.205           | 10.49              | Vertical           | Pass   |

| WCDMA Band IV-Middle channel |            |            |                 |                  |                 |                    |                    |        |
|------------------------------|------------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)              | EIRP (dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3465.2                       | -54.52     | -13        | -41.52          | -58.48           | 2.96            | 6.92               | Horizontal         | Pass   |
| 5197.8                       | -50.92     | -13        | -37.92          | -56.8            | 4.26            | 10.14              | Horizontal         | Pass   |
| 6930.4                       | -49.96     | -13        | -36.96          | -56.245          | 4.205           | 10.49              | Horizontal         | Pass   |
| 3465.2                       | -54.53     | -13        | -41.53          | -58.49           | 2.96            | 6.92               | Vertical           | Pass   |
| 5197.8                       | -50.96     | -13        | -37.96          | -56.84           | 4.26            | 10.14              | Vertical           | Pass   |
| 6930.4                       | -49.18     | -13        | -36.18          | -55.465          | 4.205           | 10.49              | Vertical           | Pass   |

| WCDMA Band IV-High channel |            |            |                 |                  |                 |                    |                    |        |
|----------------------------|------------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)            | EIRP (dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3505.2                     | -54.58     | -13        | -41.58          | -59.46           | 3.29            | 8.17               | Horizontal         | Pass   |
| 5257.8                     | -51.03     | -13        | -38.03          | -56.91           | 4.26            | 10.14              | Horizontal         | Pass   |
| 7010.4                     | -48.37     | -13        | -35.37          | -55.31           | 4.19            | 11.13              | Horizontal         | Pass   |
| 3505.2                     | -55.03     | -13        | -42.03          | -59.91           | 3.29            | 8.17               | Vertical           | Pass   |
| 5257.8                     | -51        | -13        | -38             | -56.88           | 4.26            | 10.14              | Vertical           | Pass   |
| 7010.4                     | -48.93     | -13        | -35.93          | -55.87           | 4.19            | 11.13              | Vertical           | Pass   |

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| WCDMA Band V-Low channel |            |            |                 |                  |                 |                    |                    |        |
|--------------------------|------------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)          | EIRP (dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1652.8                   | -64.93     | -13        | -51.93          | -68.815          | 1.995           | 5.88               | Horizontal         | Pass   |
| 2479.2                   | -60.39     | -13        | -47.39          | -60.51           | 2.35            | 4.62               | Horizontal         | Pass   |
| 3305.6                   | -56.66     | -13        | -43.66          | -58.47           | 2.96            | 6.92               | Horizontal         | Pass   |
| 1652.8                   | -64.43     | -13        | -51.43          | -66.165          | 1.995           | 5.88               | Vertical           | Pass   |
| 2479.2                   | -60.83     | -13        | -47.83          | -60.95           | 2.35            | 4.62               | Vertical           | Pass   |
| 3305.6                   | -57.66     | -13        | -44.66          | -59.47           | 2.96            | 6.92               | Vertical           | Pass   |

| WCDMA Band V-Middle channel |            |            |                 |                  |                 |                    |                    |        |
|-----------------------------|------------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)             | EIRP (dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1672.8                      | -65.71     | -13        | -52.71          | -69.595          | 1.995           | 5.88               | Horizontal         | Pass   |
| 2509.2                      | -60.56     | -13        | -47.56          | -61.575          | 2.655           | 5.82               | Horizontal         | Pass   |
| 3345.6                      | -55.9      | -13        | -42.9           | -57.71           | 2.96            | 6.92               | Horizontal         | Pass   |
| 1672.8                      | -65.53     | -13        | -52.53          | -67.265          | 1.995           | 5.88               | Vertical           | Pass   |
| 2509.2                      | -61.24     | -13        | -48.24          | -62.255          | 2.655           | 5.82               | Vertical           | Pass   |
| 3345.6                      | -55.59     | -13        | -42.59          | -57.4            | 2.96            | 6.92               | Vertical           | Pass   |

| WCDMA Band V-High channel |            |            |                 |                  |                 |                    |                    |        |
|---------------------------|------------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)           | EIRP (dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1693.2                    | -65.23     | -13        | -52.23          | -69.115          | 1.995           | 5.88               | Horizontal         | Pass   |
| 2539.8                    | -60.05     | -13        | -47.05          | -61.065          | 2.655           | 5.82               | Horizontal         | Pass   |
| 3386.4                    | -55.86     | -13        | -42.86          | -57.67           | 2.96            | 6.92               | Horizontal         | Pass   |
| 1693.2                    | -65        | -13        | -52             | -66.735          | 1.995           | 5.88               | Vertical           | Pass   |
| 2539.8                    | -60.27     | -13        | -47.27          | -61.285          | 2.655           | 5.82               | Vertical           | Pass   |
| 3386.4                    | -56.05     | -13        | -43.05          | -57.86           | 2.96            | 6.92               | Vertical           | Pass   |

**Note:**

All modes have been tested and we found RMC Test mode has the worst test result. Only record the worst test result.

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### 6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit:  $\leq \pm 2.5\text{ppm}$ .

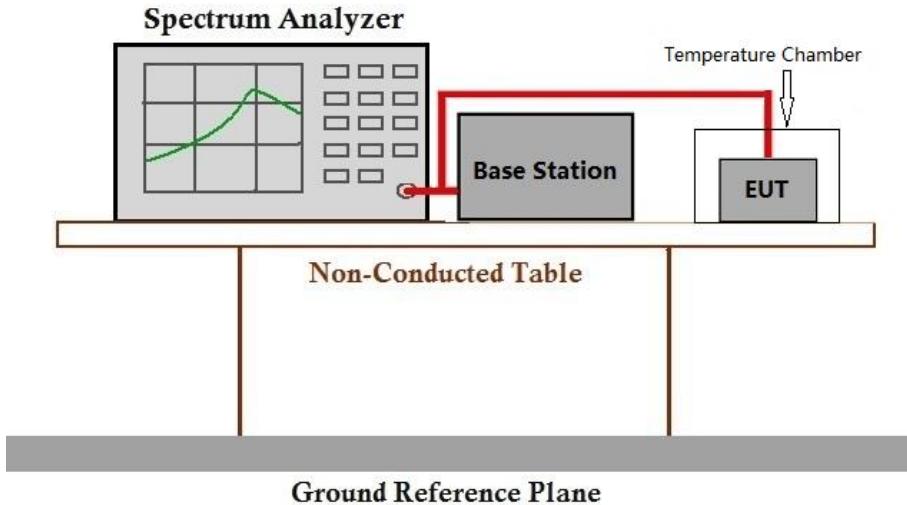
#### 6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C      Humidity: 53.5 % RH      Atmospheric Pressure: 1020 mbar

Test mode: 31: TX mode\_Keep the EUT in transmitting mode

#### 6.7.2 Test Setup Diagram



#### 6.7.3 Measurement Data

Please refer to Appendix test data.



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## 7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2401000176AT

## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2401000176AT

- End of the Report -



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