

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 1 of 27

# TEST REPORT

**Application No.:** SZCR2411004143AT

Applicant: Vanstone Electronic (Beijing) Co., L td.

3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian District, Beijing, China 100195 Address of Applicant:

Manufacturer: Vanstone Electronic (Beijing) Co., Ltd.

3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian Address of Manufacturer:

District, Beijing, China 100195

**Equipment Under Test (EUT):** 

**EUT Name:** SoundBox Model No.: Q181 Mini Trade Mark:

FCC ID: **OWLQ181-MINI** 

Standard(s): 47 CFR Part 2 47 CFR Part 22 47 CFR Part 24 47 CFR Part 27

Date of Receipt: 2024-11-07

2024-11-10 to 2024-11-21 Date of Test:

2024-11-26 Date of Issue:

**Pass Test Result:** 

**EMC** Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 2 of 27

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2024-11-26		Original	

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 3 of 27

#### **Test Summary** 2

Test Item	FCC Rule No.	Requirements	Verdict
	§2.1046		
Effective (Instruction) Designated	§22.913	ERP≤ 7W(LTE Band 5)	
Effective (Isotropic) Radiated Output Power Data	§24.232	EIRP≤ 2W(LTE Band 2)	PASS
Output I Ower Data	§27.50(d)	EIRP≤ 1W(LTE Band 4,66)	
	§27.50(h)	EIRP≤ 2W(LTE Band 7)	
	§22.913		
Peak-Average Ratio	§24.232	≤13dB	PASS
	§27.50(d)		
Donali vijelile	\$2.4040/b)	OBW: No limit	DACC
Bandwidth	§2.1049(h)	EBW: No limit	PASS
	§2.1051		
	§22.917	≤ -13dBm (LTE Band5)	
Band Edge Compliance	§24.238	≤ -13dBm (LTE Band2)	PASS
	§27.50(h)	≤ -13dBm (LTE Band4,66)	
	§27.50(m)	Refer to clause 6.4 for LTE Band7	
	§2.1051		
0	§22.917	≤ -13dBm (LTE Band5)	
Spurious emissions at antenna terminals	§24.238	≤ -13dBm (LTE Band2)	PASS
terrinas	§27.50(h)	≤ -13dBm (LTE Band4,66)	
	§27.50(m)	Refer to clause 6.5 for LTE Band7	
	§2.1051		
Field strength of couriers	§22.917	≤ -13dBm (LTE Band5)	
Field strength of spurious radiation	§24.238	≤ -13dBm (LTE Band2)	PASS
radiation	§27.50(h)	≤ -13dBm (LTE Band4,66)	
	§27.50(m)	Refer to clause 6.6 for LTE Band7	
	§2.1055		
Frequency stability	§22.355	≤ ±2.5ppm.	PASS
r requericy stability	§24.235	- τε. υρριιι.	FAGG
	§27.54		

Remark: this device may be equipped with or without amount display, all tests were performed with the amount display.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 4 of 27

## 3 Contents

		Page
1	Cover Page	1
2	Test Summary	3
3	Contents	4
4		6
•		
	4.3 Test Environment	
	4.4 Description of Support Units	
	4.5 Measurement Uncertainty	
	4.6 Test Location	
	4.7 Test Facility	
	4.8 Deviation from Standards	
	4.9 Abnormalities from Standard Conditions	
5	Equipment List	11
6	Radio Spectrum Matter Test Results	13
	6.1.2 Test Setup Diagram	
	6.2 Peak-Average Ratio	
	6.2.1 E.U.T. Operation	
	6.2.2 Test Setup Diagram	
	6.2.3 Measurement Data	
	6.3 Bandwidth	
	6.3.1 E.U.T. Operation	
	6.3.2 Test Setup Diagram	
	6.3.3 Measurement Data	
	6.4 Band Edge Compliance	
	6.4.1 E.U.T. Operation	
	6.4.2 Test Setup Diagram	
	6.4.3 Measurement Data	
	6.5 Spurious emissions at antenna terminals	
	6.5.1 E.U.T. Operation	
	6.5.2 Test Setup Diagram	
	6.5.3 Measurement Data	
	6.6 Field strength of spurious radiation	
	6.6.1 E.U.T. Operation	
	6.6.2 Test Setup Diagram	
	6.6.3 Measurement Procedure and Data	
	6.7 Frequency stability	
	6.7.1 E.U.T. Operation	
	0.7.1 L.O.1. Operation	



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7 8

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SZEMC-TRF-01 Rev. A/1	Report No.: SZCR2411004143
-----------------------	----------------------------

		Page:	5 of 27
6.7.2	Test Setup Diagram		26
6.7.3	Measurement Data		26
Test S	etup Photo		27

EUT Constructional Details (EUT Photos).......27



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241100414303

Page: 6 of 27

## **General Information**

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

Power supply: DC3.7V by Li-ion battery(2000mAh)

Battery Manufacturer: MEI ZHOU BO FU NENG TECHNOLOGY

CO.,LTD

Recharge by AC/DC Power adapter

Adapter M/N:SW-0018C

Adapter Input: AC100-240V, 50/60Hz, 0.2A

Adapter Output: DC5V/1A

Cable Loss (for RF conducted

test):

Below 1GHz: 0.5dB, 1GHz~2GHz:0.7dB, Above 2GHz: 1dB

Sample Type: Portable production LTE B2/4/5/7/66 LTE Operation Frequency Band: Modulation Type: QPSK, 16QAM

LTE Power Class: Level 3

Antenna Type: PIFA Antenna

LTE B2:1.11dBi, B4: -2.5dBi, B5: -3.23dBi, B7: 0.28dBi, Antenna Gain:

B66: -2.5dBi

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 7 of 27

## 4.2 Test Frequency

	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
LTE FDD	5	1852.5	1880	1907.5
Band 2	10	1855.0	1880	1905.0
	15	1857.5	1880	1902.5
	20	1860.0	1880	1900.0
	Nominal		RF Channel	
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
	(IVIT12)	MHz	MHz	MHz
	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1751.5
LTE FDD	5	1712.5	1732.5	1752.5
Band 4	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
	Nominal	RF Channel		
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
	(111112)	MHz	MHz	MHz
	1.4	824.7	836.5	848.3
LTE FDD	3	825.5	836.5	847.5
Band 5	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
	Nominal		RF Channel	
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
	(1411 12)	MHz	MHz	MHz
	5	2502.5	2535.0	2567.5
LTE FDD	10	2505.0	2535.0	2565.0
Band 7	15	2507.5	2535.0	2562.5
	20	2510.0	2535.0	2560.0



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 8 of 27

	Nominal	RF Channel			
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
	1.4	1710.7	1745.0	1779.3	
	3	1711.5	1745.0	1778.5	
LTE FDD	5	1712.5	1745.0	1777.5	
Band 66	10	1715.0	1745.0	1775.0	
	15	1717.5	1745.0	1772.5	
	20	1720.0	1745.0	1770.0	

### 4.3 Test Environment

Environment Parameter	Selected Values During Tests		
Temperature:	TL	-30°C	
	TN	+20°C	
	TH	+50°C	
Voltage:	VL	3.4 Vdc	
	VN	3.7 Vdc	
	VH	4.2 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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 9 of 27

## 4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.

## 4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10 <sup>-8</sup>
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB
5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Radiated Spurious emission test	± 3.1dB (Below 1GHz)
,	Radiated Spurious ethission test	± 4.4dB (Above 1GHz)
8	Temperature test	± 1°C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241100414303

> Page: 10 of 27

#### 4.6 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 11 of 27

## **Equipment List**

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2024-07-10	2025-07-09
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-20	2025-03-19
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2024-03-14	2025-03-13
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	2024-03-27	2025-03-26
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2024-03-20	2025-03-19

RE in Chamber					
Test 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
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2023-09-23	2025-09-22
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022-08-07	2025-08-06
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
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2024-09-14	2025-09-13



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 12 of 27

Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2023-09-17	2025-09-16
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2024-03-15	2025-03-14
Substitution Antenna	Rohde & Schwarz	HF907	SEM003-06	2024-08-03	2025-08-02
Substitution Antenna	ETS-LINDGREN	3160-09	SEM003-12	2024-08-03	2025-08-02
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024-03-27	2025-03-26
Universal Radio Communication Tester	Anritsu	MT8000A	SEM010-10	2024-03-14	2025-03-13

General used equipmen	t				
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	2024-03-22	2025-03-21



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241100414303

Page: 13 of 27

## 6 Radio Spectrum Matter Test Results

## 6.1 Effective (Isotropic) Radiated Output Power Data

Test Requirement: \$2.1046, \$22.913,\$24.232,\$27.50(d),\$27.50(h)
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ERP≤ 7W(LTE Band 5)

EIRP≤ 2W(LTE Band 2) EIRP≤ 1W(LTE Band 4,66) EIRP≤ 2W(LTE Band 7)

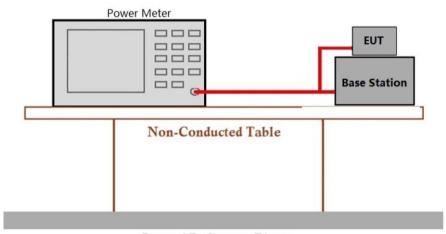
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode\_Keep the EUT in transmitting mode

## 6.1.2 Test Setup Diagram



**Ground Reference Plane** 

### 6.1.3 Measurement Data

Please refer to Appendix for LTE test data.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 14 of 27

## 6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(d)

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

Limit: ≤13dB

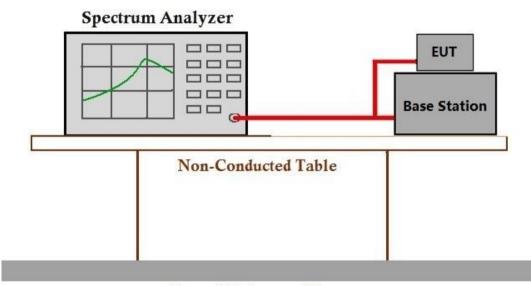
#### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode\_Keep the EUT in transmitting mode

#### 6.2.2 Test Setup Diagram



Ground Reference Plane

#### 6.2.3 Measurement Data

Please refer to Appendix for LTE test data.



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241100414303

> Page: 15 of 27

#### 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

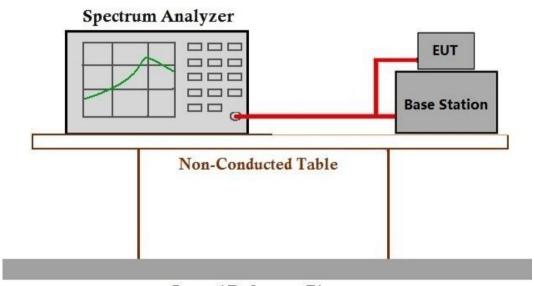
#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode Keep the EUT in transmitting mode

#### 6.3.2 Test Setup Diagram



Ground Reference Plane

#### 6.3.3 Measurement Data

Please refer to Appendix for LTE test data.



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Page: 16 of 27

## 6.4 Band Edge Compliance

Test Requirement: §2.1051,§22.917, §22.917, §24.238, §27.50(h), §27.50(m)

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

Limit: ≤ -13dBm (**LTE Band2,4,5,66**)

For Band7:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

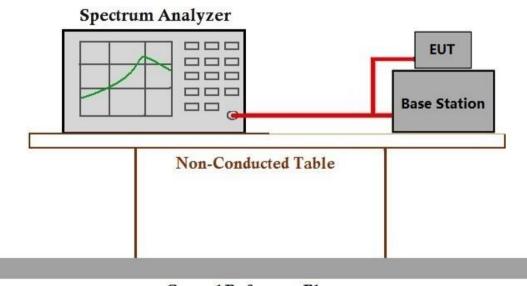
### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode\_Keep the EUT in transmitting mode

#### 6.4.2 Test Setup Diagram



**Ground Reference Plane** 

#### 6.4.3 Measurement Data

Please refer to Appendix for LTE test data.



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241100414303

> 17 of 27 Page:

### 6.5 Spurious emissions at antenna terminals

§2.1051,§22.917, §22.917, §24.238, §27.50(h), §27.50(m) Test Requirement:

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

≤ -13dBm (**LTE Band2,4,5,66**) Limit:

For Band7:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as

adjacent channel BRS or EBS licensees.

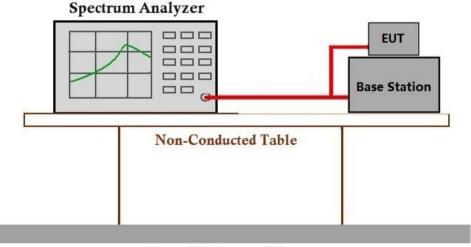
#### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C 53.5 % RH Atmospheric Pressure: 1020 mbar Humidity:

Test mode 32: TX mode Keep the EUT in transmitting mode

### 6.5.2 Test Setup Diagram



Ground Reference Plane

#### 6.5.3 Measurement Data

Please refer to Appendix for LTE test data.



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241100414303

> Page: 18 of 27

## 6.6 Field strength of spurious radiation

§2.1051,§22.917, §22.917, §24.238, §27.50(h), §27.50(m) Test Requirement:

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

≤ -13dBm (**LTE Band2,4,5,66**) Limit:

For Band7:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as

adjacent channel BRS or EBS licensees.

#### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode Keep the EUT in transmitting mode



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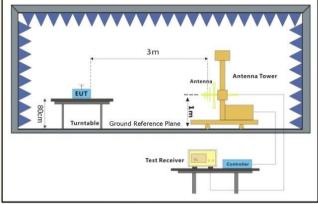
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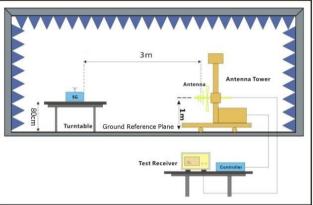


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 19 of 27

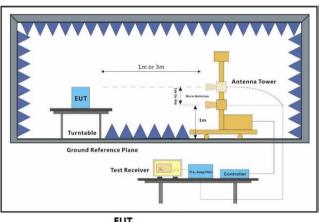
### 6.6.2 Test Setup Diagram

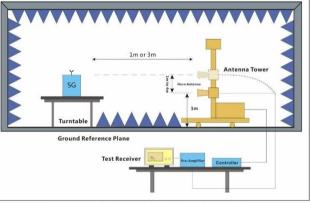




EUT

Substiute Antenna+Signal Generator





EUT

Substiute Antenna+Signal Generator



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Page: 20 of 27

#### 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 than 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 21 of 27

	LTE Band 2-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3702.0	-37.92	-13	-24.92	-42.94	3.42	8.44	Horizontal	Pass				
5553.0	-52.49	-13	-39.49	-58.7	4.24	10.45	Horizontal	Pass				
7404.0	-51.94	-13	-38.94	-59.35	4.21	11.62	Horizontal	Pass				
3702.0	-40.02	-13	-27.02	-45.04	3.42	8.44	Vertical	Pass				
5553.0	-53.84	-13	-40.84	-60.05	4.24	10.45	Vertical	Pass				
7404.0	-51.03	-13	-38.03	-58.44	4.21	11.62	Vertical	Pass				

	LTE Band 2-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3742.0	-40.29	-13	-27.29	-45.33	3.45	8.49	Horizontal	Pass				
5613.0	-53.11	-13	-40.11	-59.32	4.24	10.45	Horizontal	Pass				
7484.0	-51.42	-13	-38.42	-58.92	4.22	11.72	Horizontal	Pass				
3742.0	-39.76	-13	-26.76	-44.8	3.45	8.49	Vertical	Pass				
5613.0	-50.12	-13	-37.12	-56.33	4.24	10.45	Vertical	Pass				
7484.0	-53.97	-13	-40.97	-61.47	4.22	11.72	Vertical	Pass				

	LTE Band 2-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3782.0	-43.1	-13	-30.1	-48.17	3.48	8.55	Horizontal	Pass				
5673.0	-53.54	-13	-40.54	-59.76	4.23	10.45	Horizontal	Pass				
7564.0	-52.95	-13	-39.95	-60.55	4.22	11.82	Horizontal	Pass				
3782.0	-41.55	-13	-28.55	-46.62	3.48	8.55	Vertical	Pass				
5673.0	-52.79	-13	-39.79	-59.01	4.23	10.45	Vertical	Pass				
7564.0	-51.74	-13	-38.74	-59.34	4.22	11.82	Vertical	Pass				



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 22 of 27

	LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3422.0	-25.12	-13	-12.12	-29.86	3.24	7.98	Horizontal	Pass				
5133.0	-36.6	-13	-23.6	-42.57	4.25	10.22	Horizontal	Pass				
6844.0	-50.94	-13	-37.94	-57.68	4.19	10.93	Horizontal	Pass				
3422.0	-29.47	-13	-16.47	-34.21	3.24	7.98	Vertical	Pass				
5133.0	-34.52	-13	-21.52	-40.49	4.25	10.22	Vertical	Pass				
6844.0	-52.35	-13	-39.35	-59.09	4.19	10.93	Vertical	Pass				

	LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3447.0	-24.39	-13	-11.39	-29.17	3.26	8.04	Horizontal	Pass				
5170.5	-37.48	-13	-24.48	-43.48	4.25	10.25	Horizontal	Pass				
6894.0	-52.08	-13	-39.08	-58.88	4.19	10.99	Horizontal	Pass				
3447.0	-28.13	-13	-15.13	-32.91	3.26	8.04	Vertical	Pass				
5170.5	-31.61	-13	-18.61	-37.61	4.25	10.25	Vertical	Pass				
6894.0	-55.0	-13	-42.0	-61.8	4.19	10.99	Vertical	Pass				

	LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3472.0	-23.16	-13	-10.16	-27.99	3.27	8.1	Horizontal	Pass				
5208.0	-40.26	-13	-27.26	-46.28	4.25	10.27	Horizontal	Pass				
6944.0	-51.67	-13	-38.67	-58.54	4.19	11.06	Horizontal	Pass				
3472.0	-25.28	-13	-12.28	-30.11	3.27	8.1	Vertical	Pass				
5208.0	-35.73	-13	-22.73	-41.75	4.25	10.27	Vertical	Pass				
6944.0	-54.1	-13	-41.1	-60.97	4.19	11.06	Vertical	Pass				



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 23 of 27

	LTE Band 5-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1649.0	-62.64	-13	-49.64	-66.04	2.1	5.5	Horizontal	Pass				
2473.5	-58.82	-13	-45.82	-61.94	2.64	5.76	Horizontal	Pass				
3298.0	-56.83	-13	-43.83	-61.33	3.16	7.66	Horizontal	Pass				
1649.0	-61.86	-13	-48.86	-65.26	2.1	5.5	Vertical	Pass				
2473.5	-60.04	-13	-47.04	-63.16	2.64	5.76	Vertical	Pass				
3298.0	-57.95	-13	-44.95	-62.45	3.16	7.66	Vertical	Pass				

	LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1664.0	-62.79	-13	-49.79	-66.15	2.11	5.47	Horizontal	Pass				
2496.0	-60.32	-13	-47.32	-63.47	2.66	5.81	Horizontal	Pass				
3328.0	-57.6	-13	-44.6	-62.16	3.18	7.74	Horizontal	Pass				
1664.0	-62.74	-13	-49.74	-66.1	2.11	5.47	Vertical	Pass				
2496.0	-60.04	-13	-47.04	-63.19	2.66	5.81	Vertical	Pass				
3328.0	-55.71	-13	-42.71	-60.27	3.18	7.74	Vertical	Pass				

	LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1679.0	-60.75	-13	-47.75	-64.05	2.13	5.43	Horizontal	Pass				
2518.5	-59.77	-13	-46.77	-62.96	2.67	5.86	Horizontal	Pass				
3358.0	-56.16	-13	-43.16	-60.78	3.2	7.82	Horizontal	Pass				
1679.0	-62.07	-13	-49.07	-65.37	2.13	5.43	Vertical	Pass				
2518.5	-59.82	-13	-46.82	-63.01	2.67	5.86	Vertical	Pass				
3358.0	-57.45	-13	-44.45	-62.07	3.2	7.82	Vertical	Pass				



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 24 of 27

LTE Band 7-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
5002.0	-50.67	-25	-25.67	-56.55	4.26	10.14	Horizontal	Pass		
7503.0	-48.65	-25	-23.65	-56.17	4.22	11.74	Horizontal	Pass		
10004.0	-48.24	-25	-23.24	-56.19	5.08	13.03	Horizontal	Pass		
5002.0	-47.67	-25	-22.67	-53.55	4.26	10.14	Vertical	Pass		
7503.0	-46.48	-25	-21.48	-54.0	4.22	11.74	Vertical	Pass		
10004.0	-50.17	-25	-25.17	-58.12	5.08	13.03	Vertical	Pass		

LTE Band 7-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
5052.0	-48.41	-25	-23.41	-54.32	4.26	10.17	Horizontal	Pass		
7578.0	-54.15	-25	-29.15	-61.76	4.22	11.83	Horizontal	Pass		
10104.0	-50.94	-25	-25.94	-58.91	5.08	13.05	Horizontal	Pass		
5052.0	-48.25	-25	-23.25	-54.16	4.26	10.17	Vertical	Pass		
7578.0	-49.97	-25	-24.97	-57.58	4.22	11.83	Vertical	Pass		
10104.0	-52.27	-25	-27.27	-60.24	5.08	13.05	Vertical	Pass		

LTE Band 7-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
5102.0	-47.92	-25	-22.92	-53.86	4.26	10.2	Horizontal	Pass		
7653.0	-53.61	-25	-28.61	-61.3	4.23	11.92	Horizontal	Pass		
10204.0	-53.45	-25	-28.45	-61.44	5.08	13.07	Horizontal	Pass		
5102.0	-52.15	-25	-27.15	-58.09	4.26	10.2	Vertical	Pass		
7653.0	-54.41	-25	-29.41	-62.1	4.23	11.92	Vertical	Pass		
10204.0	-54.02	-25	-29.02	-62.01	5.08	13.07	Vertical	Pass		



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Report No.: SZCR241100414303 Page: 25 of 27

LTE Band 66-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3423.4	-56.76	-13	-43.76	-61.5	3.24	7.98	Horizontal	Pass		
5135.1	-53.27	-13	-40.27	-59.24	4.25	10.22	Horizontal	Pass		
6846.8	-54.41	-13	-41.41	-61.15	4.19	10.93	Horizontal	Pass		
3423.4	-56.51	-13	-43.51	-61.25	3.24	7.98	Vertical	Pass		
5135.1	-53.59	-13	-40.59	-59.56	4.25	10.22	Vertical	Pass		
6846.8	-53.58	-13	-40.58	-60.32	4.19	10.93	Vertical	Pass		

LTE Band 66-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3472.0	-56.56	-13	-43.56	-61.39	3.27	8.1	Horizontal	Pass		
5208.0	-54.25	-13	-41.25	-60.27	4.25	10.27	Horizontal	Pass		
6944.0	-52.4	-13	-39.4	-59.27	4.19	11.06	Horizontal	Pass		
3472.0	-56.28	-13	-43.28	-61.11	3.27	8.1	Vertical	Pass		
5208.0	-53.43	-13	-40.43	-59.45	4.25	10.27	Vertical	Pass		
6944.0	-53.26	-13	-40.26	-60.13	4.19	11.06	Vertical	Pass		

LTE Band 66-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3520.6	-57.14	-13	-44.14	-62.04	3.3	8.2	Horizontal	Pass		
5280.9	-54.53	-13	-41.53	-60.59	4.25	10.31	Horizontal	Pass		
7041.2	-54.11	-13	-41.11	-61.1	4.19	11.18	Horizontal	Pass		
3520.6	-56.64	-13	-43.64	-61.54	3.3	8.2	Vertical	Pass		
5280.9	-54.7	-13	-41.7	-60.76	4.25	10.31	Vertical	Pass		
7041.2	-54.38	-13	-41.38	-61.37	4.19	11.18	Vertical	Pass		

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100414303 Page: 26 of 27

## 6.7 Frequency stability

Test Requirement: §2.1055,§22.355,§24.235,§27.54

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

Limit:  $\leq \pm 2.5$ ppm.

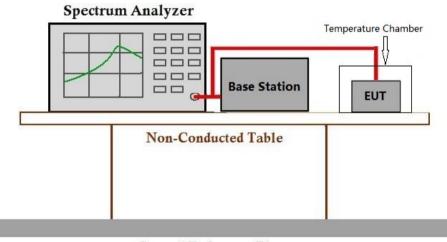
#### 6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode\_Keep the EUT in transmitting mode

### 6.7.2 Test Setup Diagram



**Ground Reference Plane** 

#### 6.7.3 Measurement Data

Please refer to Appendix for LTE test data.



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241100414303

> Page: 27 of 27

## **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2411004143AT

#### **EUT Constructional Details (EUT Photos)** 8

Refer to Appendix - External and Internal Photos for SZCR2411004143AT

- End of the Report -



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