

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 1 of 57

TEST REPORT

Application No.: SZCR2507003037AT

Applicant: Fujian Newland Payment Technology Co.,Ltd.

Address of Applicant: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fujian, China

Manufacturer: Fujian Newland Payment Technology Co.,Ltd.

Address of Manufacturer: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fujian, China

EUT Description: POS Terminal

Model No.: S90

Trade Mark: Newland

FCC ID: 2AM6U-NAS90P

Standards: 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 90

Date of Receipt: 2025/07/14

Date of Test: 2025/07/16 to 2025/07/29

Date of Issue: 2025/07/30

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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Report No.: SZCR250700303701

Page: 2 of 57

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025/07/30		Original

Authorized for issue by:				
		Donjon . Huang		
		Donjon Huang/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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Member of the SGS Group (SGS SA)

2 Test Summary

2.1 LTE Band 5/26(824~849 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	Reference report TCWA24120042106	
Peak-Average Ratio	§22.913(d)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §22.355	±2.5ppm.	Reference report TCWA24120042106	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 4 of 57

2.2 LTE Band 2 /25

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Reference report TCWA24120042106	
Peak-Average Ratio	§24.232(d)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §24.235	Within authorized bands of operation/frequency block.	Reference report TCWA24120042106	



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Report No.: SZCR250700303701

Page: 5 of 57

2.3 LTE Band 4 /66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Reference report TCWA24120042106	
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.	Reference report TCWA24120042106	



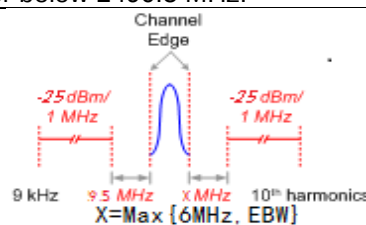
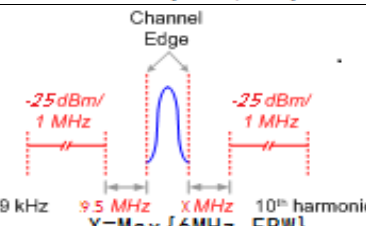
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2.4 LTE Band 7/41

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Reference report TCWA24120042106	
Peak-Average Ratio	---	≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(m)(4)	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.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)		Appendix	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)			
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.	Reference report TCWA24120042106	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 7 of 57

2.5 LTE Band 12/17

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Reference report TCWA24120042106	
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])		
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.	Reference report TCWA24120042106	



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2.6 LTE Band 13

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤ 3 W.	Reference report TCWA24120042106	
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(c)	≤ 43+10log10(P[Watts])		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.		
Field Strength of Spurious Radiation	§2.1053, §27.53(c) §27.53(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.	Reference report TCWA24120042106	



2.7 LTE Band 14

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(a)	ERP ≤ 3 W.	Reference report TCWA24120042106	
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Emission Mask	§2.1051 §90.210(b)	Transmitters designed for operation under this part on frequencies other than listed in this section must meet the emission mask requirements of Emission Mask B. Equipment operating under this part on frequencies allocated to but shared with the Federal Government, must meet the applicable Federal Government technical standards (b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows: (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB..(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.		
Band Edges Compliance	§2.1051 §90.543(e)(2)(3)	(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not		



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 10 of 57

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
		less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.		
Spurious Emission at Antenna Terminals	§2.1051, §90.543(c) §90.543(f)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.		
Field Strength of Spurious Radiation	§2.1053, §90.543(c) §90.543(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §90.213	Within authorized bands of operation/frequency block.	Reference report TCWA24120042106	



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2.8 LTE Band 26(814~824 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W.	Reference report TCWA24120042106	
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Emission Mask	§2.1051 § 90.691(a)	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.		
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions		
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §90.213	Within authorized bands of operation/frequency block.	Reference report TCWA24120042106	



2.9 LTE Band 71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W	Reference report TCWA24120042106	
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])		
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	within the authorized bands of operation.	Reference report TCWA24120042106	

Remark:

EUT 1	EUT 2	EUT 3
S2_33_00_00_XX (Standard Version)	S2_73_00_00_XX (LCD_2 Version)	S2_33_13_00_XX (SCAN Version)

Note: The bits 13 and 14 of "xx" in HWID represent customized accessory information, the configuration of the camera, such as the number of cameras, pixels, and so on.

EUT1 as the main test.

EUT2 adds scanning functionality based on EUT1.

EUT3 adds an LCD screen based on EUT1.

The above differences do not affect the RF performance, so only EUT1 was evaluated this time.

This test report (Report No.: SZCR250700303701 issue on 2025/07/30) is based on the original FCC ID: XMR2025SC200VNA (Report No.: TCWA24120042106 issue by Sushi TOWE Wireless Testing(Shenzhen) CO., Ltd. On 2025/03/13).

Review this report and original report, this report just changing the parts according to the declaration letter from client.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 13 of 57

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

Therefore in this report the Field Strength of Spurious Radiation were tested and other test data please refer to the previous report with report number TCWA24120042106 issue by Sushi TOWE Wireless

Testing(Shenzhen) CO., Ltd. On 2025/03/13.



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3 Contents

1	Cover Page	1
2	Test Summary	3
2.1	LTE Band 5/26(824~849 MHz)	3
2.2	LTE Band 2 /25	4
2.3	LTE Band 4 /66	5
2.4	LTE Band 7/41	6
2.5	LTE Band 12/17	7
2.6	LTE Band 13	8
2.7	LTE Band 14	9
2.8	LTE Band 26(814~824 MHz)	11
2.9	LTE Band 71	12
3	Contents.....	14
4	General Information	16
4.1	General Description of EUT	16
4.2	Test Mode	17
4.3	Test Environment.....	17
4.4	Description of Support Units	17
4.5	Measurement Uncertainty	18
4.6	Test Location.....	19
4.7	Test Facility	19
4.8	Technical Specification	20
4.9	Equipment List	22
4.10	Test Frequencies	23
5	Description of Tests.....	31
5.1	Conducted Output Power	31
5.2	Effective (Isotropic) Radiated Power of Transmitter.....	32
5.3	Occupied Bandwidth	33
5.4	Band Edge at Antenna Terminals	34
5.5	Spurious And Harmonic Emissions at Antenna Terminal	35
5.6	Peak-Average Ratio	36
5.7	Field Strength of Spurious Radiation	37



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 15 of 57

5.8	Frequency Stability / Temperature Variation	38
5.9	Test Setups.....	39
5.9.1	Test Setup 1	39
5.9.2	Test Setup 2	39
5.9.3	Test Setup 3	40
5.10	Test Conditions	41
6	Photographs	42
	Field Strength of Spurious Radiation	44



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4 General Information

4.1 General Description of EUT

Power Supply:	DC 7.6V			
IMEI:	868757070020769			
Antenna Type:	☐ External, ☒ Integrated			
Antenna Gain:	LTE Band 2:	5.40dBi	LTE Band 4:	4.74dBi
	LTE Band 5:	-2.66dBi	LTE Band 7:	2.11dBi
	LTE Band 12:	-1.96dBi	LTE Band 13:	-3.50dBi
	LTE Band 14:	-3.50dBi	LTE Band 17:	-1.96dBi
	LTE Band 25:	5.40dBi	LTE Band 26:	-2.66dBi
	LTE Band 41:	2.65dBi	LTE Band 66:	4.93dBi
	LTE Band 71:	-6.13dBi		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.				



4.2 Test Mode

Test Mode	Test Modes Description
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation
Remark: The test mode(s) are selected according to relevant radio technology specifications.	

4.3 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	20~25	7.6
LTLV	-30	6.84
LTHV	-30	8.36
HTLV	50	6.84
HTHV	50	8.36
Remark:		
NV: Normal Voltage	LV: Low Extreme Test Voltage	HV: High Extreme Test Voltage
NT: Normal Temperature	LT: Low Extreme Test Temperature	HT: High Extreme Test Temperature

4.4 Description of Support Units

Description	Manufacturer	Model No.
--	--	--
The EUT has been tested as an independent unit.		



4.5 Measurement Uncertainty

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

No.	Item	Measurement Uncertainty
1	Radiated Spurious emission test(UE)	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



4.6 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

4.7 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 Technical Specification

Characteristics	Description				
Radio System Type	☒ LTE				
Supported Frequency Range	Band	TX		RX	
	LTE Band 2	1850 to 1910 MHz		1930 to 1990 MHz	
	LTE Band 4	1710 to 1755 MHz		2110 to 2155 MHz	
	LTE Band 5	824 to 849 MHz		869 to 894 MHz	
	LTE Band 7	2500 to 2570 MHz		2620 to 2690 MHz	
	LTE Band 12	699 to 716 MHz		729 to 746 MHz	
	LTE Band 13	777 to 787 MHz		746 to 756 MHz	
	LTE Band 14	788 to 798 MHz		758 to 768 MHz	
	LTE Band 17	704 to 716 MHz		734 to 746 MHz	
	LTE Band 25	1850 to 1915MHz		1930 to 1995 MHz	
	LTE Band 26 (814 to 824 MHz)	814 to 824MHz		859 to 869 MHz	
	LTE Band 26 (824 to 849 MHz)	824 to 849 MHz		869 to 894 MHz	
	LTE Band 41	2496 to 2690MHz		2496 to 2690MHz	
	LTE Band 66	1710 to 1780 MHz		2110 to 2200 MHz	
	LTE Band 71	663 to 698 MHz		617 to 652 MHz	
Supported Channel Bandwidth	LTE Band 2	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
	LTE Band 4	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
	LTE Band 5	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
	LTE Band 7	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band 12	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
	LTE Band 13	☒ 5 MHz	☒ 10 MHz		
	LTE Band 14	☒ 5 MHz	☒ 10 MHz		
	LTE Band 17	☒ 5 MHz	☒ 10 MHz		
	LTE Band 25	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
	LTE Band 26(814-824)	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 21 of 57

	LTE Band 26(824-849)	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz			
	LTE Band41	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band66	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15MHz	☒ 20MHz		
	LTE Band71	☒ 5MHz	☒ 10MHz	☒ 15MHz	☒ 20MHz



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4.9 Equipment List

Radiated spurious emissions					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025/5/7	2028/5/6
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025/3/4	2026/3/3
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023/7/23	2025/7/22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024/9/14	2025/9/13
Coaxial Cable	SGS	N/A	SEM026-01	2024/7/6	2025/7/5
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024/8/10	2025/8/9
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025/3/21	2026/3/20
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	SEM010-14	2025/3/3	2026/3/2
Radio Communication Analyzer	Anristu	MT8821C	SEM010-09	2025/3/3	2026/3/2
Radio Communication Test Station	Anristu	MT8000A	SEM010-10	2025/3/4	2026/3/3
Humidity/Temperature Indicator	deli	8838	SEM002-32	2024/7/24	2025/7/23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025/3/3	2026/3/2

Remark: NCR=No Calibration Requirement.



4.10 Test Frequencies

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 2	1.4MHz	TX	Channel 18607	Channel 18900	Channel 19193
			1850.7 MHz	1880 MHz	1909.3 MHz
		RX	Channel 607	Channel 900	Channel 1193
			1930.7 MHz	1960 MHz	1989.3 MHz
	3MHz	TX	Channel 18615	Channel 18900	Channel 19185
			1851.5 MHz	1880 MHz	1908.5 MHz
		RX	Channel 615	Channel 900	Channel 1185
			1931.5 MHz	1960 MHz	1988.5 MHz
	5MHz	TX	Channel 18625	Channel 18900	Channel 19175
			1852.5 MHz	1880 MHz	1907.5 MHz
		RX	Channel 625	Channel 900	Channel 1175
			1932.5 MHz	1960 MHz	1987.5 MHz
	10MHz	TX	Channel 18650	Channel 18900	Channel 19150
			1855 MHz	1880 MHz	1905 MHz
		RX	Channel 650	Channel 900	Channel 1150
			1935 MHz	1960 MHz	1985 MHz
	15MHz	TX	Channel 18675	Channel 18900	Channel 19125
			1857.5 MHz	1880 MHz	1902.5 MHz
		RX	Channel 675	Channel 900	Channel 1125
			1937.5 MHz	1960 MHz	1982.5 MHz
	20MHz	TX	Channel 18700	Channel 18900	Channel 19100
			1860 MHz	1880 MHz	1900 MHz
		RX	Channel 700	Channel 900	Channel 1100
			1940 MHz	1960 MHz	1980 MHz



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 24 of 57

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 4	1.4MHz	TX	Channel 19957	Channel 20175	Channel 20393
			1710.7 MHz	1732.5 MHz	1754.3 MHz
		RX	Channel 1957	Channel 2175	Channel 2393
			2110.7 MHz	2132.5MHz	2154.3 MHz
	3MHz	TX	Channel 19965	Channel 20175	Channel 20385
			1711.5 MHz	1732.5 MHz	1753.5 MHz
		RX	Channel 1965	Channel 2175	Channel 2385
			2111.5 MHz	2132.5MHz	2153.5 MHz
	5MHz	TX	Channel 19975	Channel 20175	Channel 20375
			1712.5 MHz	1732.5 MHz	1752.5 MHz
		RX	Channel 1975	Channel 2175	Channel 2425
			2112.5 MHz	2132.5MHz	2157.5 MHz
	10MHz	TX	Channel 20000	Channel 20175	Channel 20350
			1715 MHz	1732.5 MHz	1750 MHz
		RX	Channel 2000	Channel 2175	Channel 2350
			2115 MHz	2132.5MHz	2150 MHz
	15MHz	TX	Channel 20025	Channel 20175	Channel 20325
			1717.5 MHz	1732.5 MHz	1747.5 MHz
		RX	Channel 2025	Channel 2175	Channel 2325
			2117.5 MHz	2132.5MHz	2147.5 MHz
	20MHz	TX	Channel 20050	Channel 20175	Channel 20300
			1720 MHz	1732.5 MHz	1745 MHz
		RX	Channel 2050	Channel 2175	Channel 2300
			2120 MHz	2132.5MHz	2145 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 5	1.4MHz	TX	Channel 20407	Channel 20525	Channel 20643
			824.7 MHz	836.5 MHz	848.3 MHz
		RX	Channel 2407	Channel 2525	Channel 2643
			869.7 MHz	881.5 MHz	893.3 MHz
	3MHz	TX	Channel 20415	Channel 20525	Channel 20635
			825.5 MHz	836.5 MHz	847.5 MHz
		RX	Channel 2415	Channel 2525	Channel 2635
			870.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TX	Channel 20425	Channel 20525	Channel 20625
			826.5 MHz	836.5 MHz	846.5 MHz
		RX	Channel 2425	Channel 2525	Channel 2625
			871.5 MHz	881.5 MHz	891.5 MHz
	10MHz	TX	Channel 20450	Channel 20525	Channel 20600
			829 MHz	836.5 MHz	844 MHz
		RX	Channel 2450	Channel 2525	Channel 2600
			874 MHz	881.5 MHz	889 MHz



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 25 of 57

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 7	5MHz	TX	Channel 20775	Channel 21100	Channel 21425
			2502.5 MHz	2535 MHz	2567.5 MHz
		RX	Channel 2775	Channel 3100	Channel 5825
			2622.5 MHz	2655 MHz	2687.5 MHz
	10MHz	TX	Channel 20800	Channel 21100	Channel 21400
			2505 MHz	2535 MHz	2565 MHz
		RX	Channel 2800	Channel 3100	Channel 3400
			2625 MHz	2655 MHz	2685 MHz
	15MHz	TX	Channel 20825	Channel 21100	Channel 21375
			2507.5 MHz	2535 MHz	2562.5 MHz
		RX	Channel 2825	Channel 3100	Channel 3375
			2627.5 MHz	2655 MHz	2682.5 MHz
	20MHz	TX	Channel 20850	Channel 21100	Channel 21350
			2510 MHz	2535 MHz	2560 MHz
		RX	Channel 2850	Channel 3100	Channel 3350
			2630 MHz	2655 MHz	2680 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 12	1.4MHz	TX	Channel 23017	Channel 23095	Channel 23173
			699.7 MHz	707.5 MHz	715.3 MHz
		RX	Channel 5017	Channel 5095	Channel 5173
			729.7 MHz	737.5 MHz	745.3 MHz
	3MHz	TX	Channel 23025	Channel 23095	Channel 23165
			700.5 MHz	707.5 MHz	714.5 MHz
		RX	Channel 5025	Channel 5095	Channel 5165
			730.5 MHz	737.5 MHz	744.5 MHz
	5MHz	TX	Channel 23035	Channel 23095	Channel 23155
			701.5 MHz	707.5 MHz	713.5 MHz
		RX	Channel 5035	Channel 5095	Channel 5155
			731.5 MHz	737.5 MHz	743.5 MHz
	10MHz	TX	Channel 23060	Channel 23095	Channel 23130
			704 MHz	707.5 MHz	711 MHz
		RX	Channel 5060	Channel 5095	Channel 5130
			734 MHz	737.5 MHz	741 MHz



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Report No.: SZCR250700303701

Page: 26 of 57

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 13	5MHz	TX	Channel 23205	Channel 23230	Channel 23255
			779.5 MHz	782 MHz	784.5 MHz
	10MHz	RX	Channel 5205	Channel 5230	Channel 5255
			748.5 MHz	751 MHz	753.5 MHz
		TX	Channel 23230	Channel 23230	Channel 23230
			782 MHz	782 MHz	782 MHz
		RX	Channel 5230	Channel 5230	Channel 5230
			751 MHz	751 MHz	751 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 14	5MHz	TX	Channel 23305	Channel 23330	Channel 23355
			790.5 MHz	793 MHz	795.5 MHz
	10MHz	RX	Channel 5305	Channel 5330	Channel 5355
			760.5 MHz	763 MHz	765.5 MHz
		TX	Channel 23330	Channel 23330	Channel 23330
			793MHz	793 MHz	793 MHz
		RX	Channel 5330	Channel 5330	Channel 5330
			763MHz	763 MHz	763 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 17	5MHz	TX	Channel 23755	Channel 23790	Channel 23825
			706.5 MHz	710 MHz	713.5 MHz
	10MHz	RX	Channel 5755	Channel 5790	Channel 5825
			736.5 MHz	740 MHz	743.5 MHz
		TX	Channel 23780	Channel 23790	Channel 23800
			709 MHz	710 MHz	711 MHz
		RX	Channel 5780	Channel 5790	Channel 5800
			739 MHz	740 MHz	741 MHz



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Report No.: SZCR250700303701

Page: 27 of 57

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 25	1.4MHz	TX	Channel 26047	Channel 26365	Channel 26683
			1850.7 MHz	1882.5 MHz	1914.3 MHz
		RX	Channel 8047	Channel 8365	Channel 8683
			1930.7 MHz	1962.5 MHz	1994.3 MHz
	3MHz	TX	Channel 26055	Channel 26365	Channel 26675
			1851.5 MHz	1882.5 MHz	1913.5 MHz
		RX	Channel 8055	Channel 8365	Channel 8675
			1931.5 MHz	1962.5 MHz	1993.5 MHz
	5MHz	TX	Channel 26065	Channel 26365	Channel 26665
			1852.5 MHz	1882.5 MHz	1912.5 MHz
		RX	Channel 8065	Channel 8365	Channel 8665
			1932.5 MHz	1962.5 MHz	1992.5 MHz
	10MHz	TX	Channel 26090	Channel 26365	Channel 26640
			1855 MHz	1882.5 MHz	1910 MHz
		RX	Channel 8090	Channel 8365	Channel 8640
			1935 MHz	1962.5 MHz	1990 MHz
	15MHz	TX	Channel 26115	Channel 26365	Channel 26615
			1857.5 MHz	1882.5 MHz	1907.5 MHz
		RX	Channel 8115	Channel 8365	Channel 8615
			1937.5 MHz	1962.5 MHz	1987.5 MHz
	20MHz	TX	Channel 26140	Channel 26365	Channel 26590
			1860 MHz	1882.5 MHz	1905 MHz
		RX	Channel 8140	Channel 8365	Channel 8590
			1940 MHz	1962.5 MHz	1985 MHz



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 28 of 57

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 26 (814-824)	1.4MHz	TX	Channel 26697	Channel 26740	Channel 26783
			814.7 MHz	819 MHz	823.3 MHz
		RX	Channel 8697	Channel 8740	Channel 8783
			859.7 MHz	864MHz	868.3 MHz
	3MHz	TX	Channel 26705	Channel 26740	Channel 26775
			815.5 MHz	819 MHz	822.5 MHz
		RX	Channel 8705	Channel 8740	Channel 8775
			860.5 MHz	864MHz	867.5 MHz
	5MHz	TX	Channel 26715	Channel 26740	Channel 26765
			816.5 MHz	819 MHz	821.5 MHz
		RX	Channel 8715	Channel 8740	Channel 8765
			861.5 MHz	864MHz	866.5 MHz
	10MHz	TX	Channel 26740	Channel 26740	Channel 26740
			819 MHz	819 MHz	819 MHz
		RX	Channel 8740	Channel 8740	Channel 8740
			864MHz	864MHz	864MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band26 (824-849)	1.4MHz	TX	Channel 26797	Channel 26915	Channel 27033
			824.7 MHz	836.5 MHz	848.3 MHz
		RX	Channel 8797	Channel 8915	Channel 9033
			869.7 MHz	881.5 MHz	893.3 MHz
	3MHz	TX	Channel 26805	Channel 26915	Channel 27025
			825.5 MHz	836.5 MHz	847.5 MHz
		RX	Channel 8805	Channel 8915	Channel 9025
			860.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TX	Channel 26815	Channel 26915	Channel 27015
			826.5 MHz	836.5 MHz	846.5 MHz
		RX	Channel 8815	Channel 8915	Channel 9015
			871.5 MHz	881.5 MHz	891.5 MHz
	10MHz	TX	Channel 26840	Channel 26915	Channel 26990
			829 MHz	836.5 MHz	844 MHz
		RX	Channel 8840	Channel 8915	Channel 8990
			874 MHz	881.5 MHz	889 MHz
	15MHz	TX	Channel 26865	Channel 26915	Channel 26965
			831.5 MHz	836.5 MHz	841.5 MHz
		RX	Channel 8865	Channel 8915	Channel 8965
			876.5 MHz	881.5 MHz	886.5 MHz



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 29 of 57

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 41 (2496-2690)	5MHz	TX / RX	Channel 39675	Channel40620	Channel 41565
			2498.5 MHz	2593 MHz	2687.5 MHz
	10MHz	TX / RX	Channel 39700	Channel40620	Channel 41540
			2501 MHz	2593 MHz	2685 MHz
	15MHz	TX / RX	Channel 39725	Channel40620	Channel 41515
			2503.5 MHz	2593 MHz	2682.5 MHz
	20MHz	TX / RX	Channel 39750	Channel40620	Channel 41490
			2506 MHz	2593 MHz	2680 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band66	1.4MHz	TX	Channel 131979	Channel 132322	Channel 132665
			1710.7 MHz	1745 MHz	1779.3 MHz
		RX	Channel 66443	Channel 66786	Channel 67329
			2110.7 MHz	2145MHz	2199.3 MHz
	3MHz	TX	Channel 131987	Channel 132322	Channel 132657
			1711.5 MHz	1745 MHz	1778.5MHz
		RX	Channel 66451	Channel 66786	Channel 67321
			2111.5 MHz	2145MHz	2198.5MHz
	5MHz	TX	Channel 131997	Channel 132322	Channel 132647
			1712.5 MHz	1745 MHz	1777.5 MHz
		RX	Channel 66461	Channel 66786	Channel 67311
			2112.5 MHz	2145MHz	2197.5 MHz
	10MHz	TX	Channel 132022	Channel 132322	Channel 132622
			1715 MHz	1745 MHz	1775 MHz
		RX	Channel 66486	Channel 66786	Channel 67286
			2115 MHz	2145MHz	2195 MHz
	15MHz	TX	Channel 132047	Channel 132322	Channel 132597
			1717.5 MHz	1745 MHz	1772.5 MHz
		RX	Channel 66511	Channel 66786	Channel 67261
			2117.5 MHz	2145MHz	2192.5 MHz
	20MHz	TX	Channel 132072	Channel 132322	Channel 132572
			1720 MHz	1745 MHz	1770 MHz
		RX	Channel 66536	Channel 66786	Channel 67236
			2120 MHz	2145MHz	2190 MHz



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 30 of 57

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band71	5MHz	TX	Channel 133147	Channel 133297	Channel 133447
			665.5 MHz	680.5 MHz	695.5 MHz
		RX	Channel 68611	Channel 68761	Channel 68911
			619.5 MHz	634.5 MHz	649.5 MHz
	10MHz	TX	Channel 133172	Channel 133297	Channel 133422
			668 MHz	680.5 MHz	693 MHz
		RX	Channel 68636	Channel 68761	Channel 68886
			622 MHz	634.5 MHz	647 MHz
	15MHz	TX	Channel 133197	Channel 133297	Channel 133397
			670.5 MHz	680.5 MHz	690.5 MHz
		RX	Channel 68661	Channel 68761	Channel 68861
			624.5 MHz	634.5 MHz	644.5 MHz
	20MHz	TX	Channel 133222	Channel 133297	Channel 133372
			673 MHz	680.5 MHz	688 MHz
		RX	Channel 68686	Channel 68761	Channel 68836
			627 MHz	634.5 MHz	642 MHz



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5 Description of Tests

5.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1



5.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB



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5.3 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

Remark: Reference test setup 1

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7



5.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel). in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to rms.

Remark: Reference test setup 1

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW $\geq$ 1% of the emission bandwidth
4. VBW $\geq$ 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq$ 2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize



5.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Remark: Reference test setup 1

Test Settings

1. Start frequency was set to 9kHz and stop frequency was set to at least 10* the fundamental frequency(Separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings



5.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

Remark: Reference test setup 1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power



5.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$
- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \log(3/1) = 9.54 \text{ dB}$.

Remark: Reference test setup 2

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) All modes have been tested, but only the worst case data displayed in this report.



5.8 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01; Section 9

. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

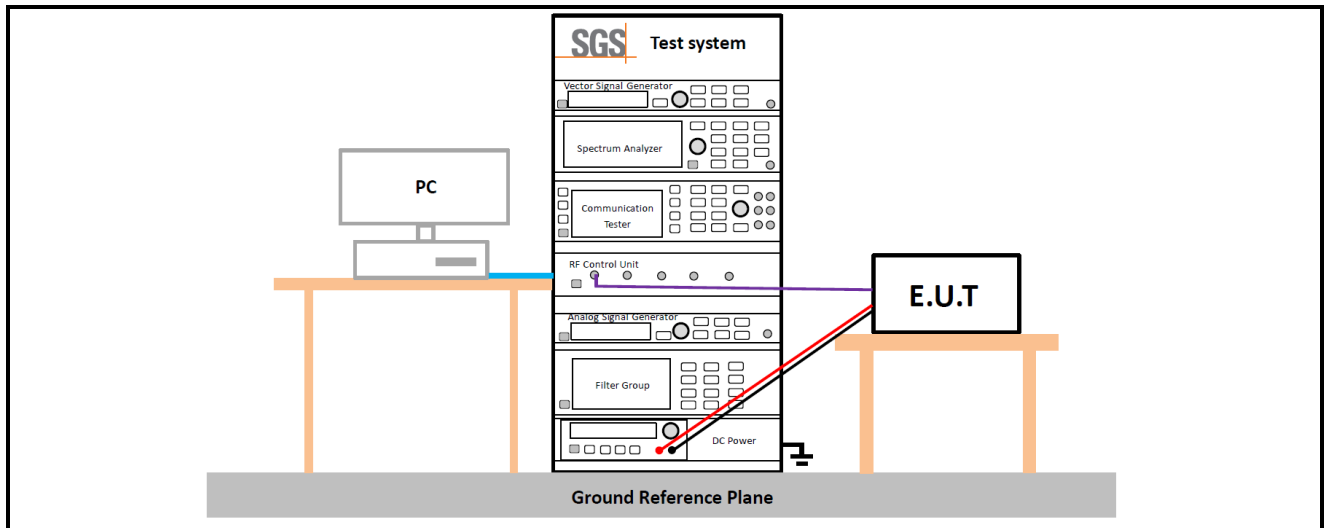
1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Remark: Reference test setup 3



5.9 Test Setups

5.9.1 Test Setup 1



5.9.2 Test Setup 2

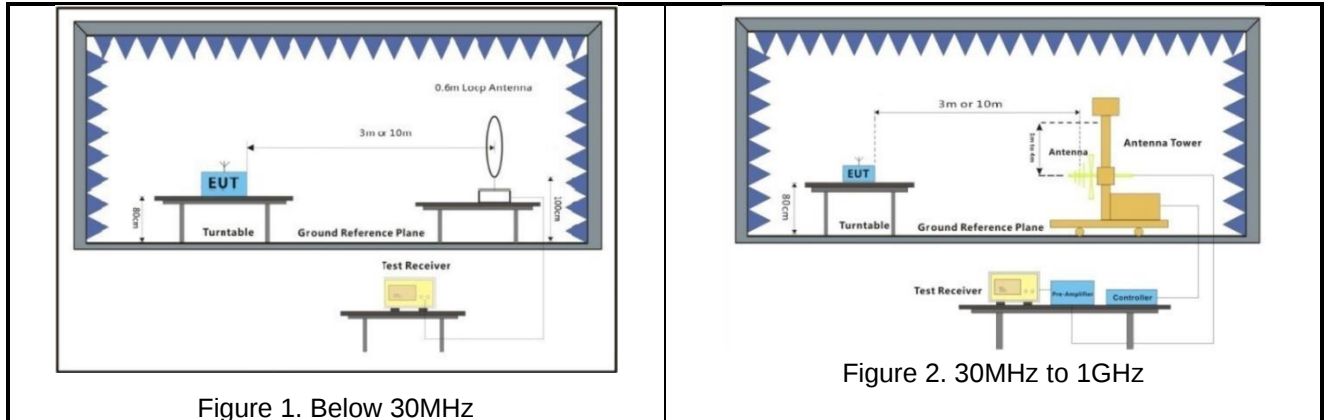


Figure 1. Below 30MHz

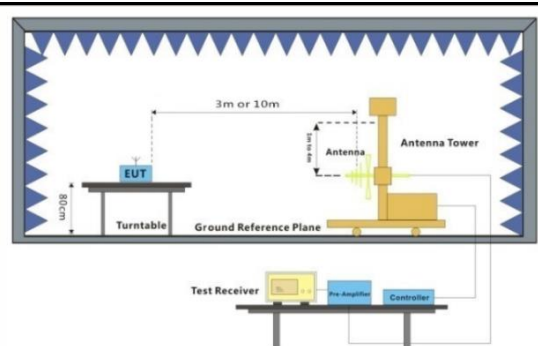


Figure 2. 30MHz to 1GHz

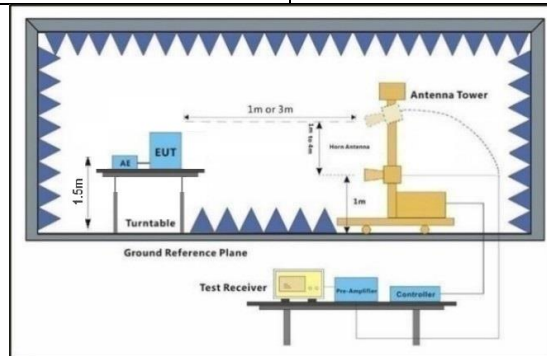
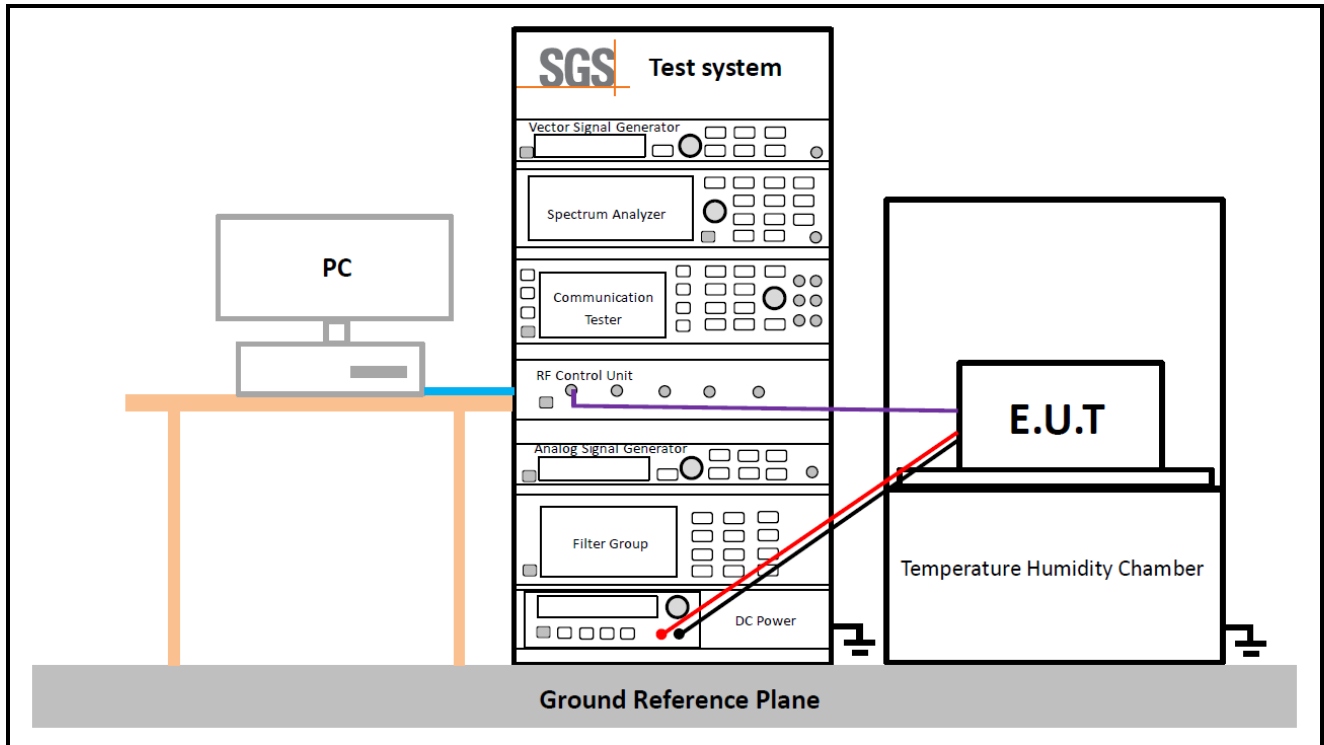


Figure 3. above 1GHz



5.9.3 Test Setup 3



5.10 Test Conditions

Field Strength of Spurious Radiation	
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 2
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1 Remark: All bandwidth and modulation of LTE have been pre tested, and only the worst results are reflected in the report.



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6 Photographs

Please refer to SZCR2507003037 Appendix_Setup Photo



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Appendix



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Field Strength of Spurious Radiation

LTE Band B2-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	-52.17	-13	-39.17	-57.19	3.42	8.44	Horizontal	Pass
5553.0	-50.77	-13	-37.77	-56.98	4.24	10.45	Horizontal	Pass
7404.0	-48.43	-13	-35.43	-55.84	4.21	11.62	Horizontal	Pass
3702.0	-52.17	-13	-39.17	-57.19	3.42	8.44	Vertical	Pass
5553.0	-50.62	-13	-37.62	-56.83	4.24	10.45	Vertical	Pass
7404.0	-49.34	-13	-36.34	-56.75	4.21	11.62	Vertical	Pass

LTE Band B2-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	-53.39	-13	-40.39	-58.43	3.45	8.49	Horizontal	Pass
5613.0	-53.55	-13	-40.55	-59.76	4.24	10.45	Horizontal	Pass
7484.0	-47.88	-13	-34.88	-55.38	4.22	11.72	Horizontal	Pass
3742.0	-53.33	-13	-40.33	-58.37	3.45	8.49	Vertical	Pass
5613.0	-52.8	-13	-39.8	-59.01	4.24	10.45	Vertical	Pass
7484.0	-48.17	-13	-35.17	-55.67	4.22	11.72	Vertical	Pass

LTE Band B2-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	-54.92	-13	-41.92	-59.99	3.48	8.55	Horizontal	Pass
5673.0	-53.49	-13	-40.49	-59.71	4.23	10.45	Horizontal	Pass
7564.0	-48.13	-13	-35.13	-55.73	4.22	11.82	Horizontal	Pass
3782.0	-55.39	-13	-42.39	-60.46	3.48	8.55	Vertical	Pass
5673.0	-53.42	-13	-40.42	-59.64	4.23	10.45	Vertical	Pass
7564.0	-49.09	-13	-36.09	-56.69	4.22	11.82	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 45 of 57

LTE Band B4-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	-56.15	-13	-43.15	-60.89	3.24	7.98	Horizontal	Pass
5133.0	-51.49	-13	-38.49	-57.46	4.25	10.22	Horizontal	Pass
6844.0	-49.81	-13	-36.81	-56.55	4.19	10.93	Horizontal	Pass
3422.0	-56.21	-13	-43.21	-60.95	3.24	7.98	Vertical	Pass
5133.0	-52.48	-13	-39.48	-58.45	4.25	10.22	Vertical	Pass
6844.0	-50.78	-13	-37.78	-57.52	4.19	10.93	Vertical	Pass

LTE Band B4-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	-54.95	-13	-41.95	-59.73	3.26	8.04	Horizontal	Pass
5170.5	-52.27	-13	-39.27	-58.27	4.25	10.25	Horizontal	Pass
6894.0	-50.88	-13	-37.88	-57.68	4.19	10.99	Horizontal	Pass
3447.0	-55.29	-13	-42.29	-60.07	3.26	8.04	Vertical	Pass
5170.5	-51.99	-13	-38.99	-57.99	4.25	10.25	Vertical	Pass
6894.0	-50.44	-13	-37.44	-57.24	4.19	10.99	Vertical	Pass

LTE Band B4-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	-55.29	-13	-42.29	-60.12	3.27	8.1	Horizontal	Pass
5208.0	-52.24	-13	-39.24	-58.26	4.25	10.27	Horizontal	Pass
6944.0	-50.11	-13	-37.11	-56.98	4.19	11.06	Horizontal	Pass
3472.0	-54.62	-13	-41.62	-59.45	3.27	8.1	Vertical	Pass
5208.0	-51.43	-13	-38.43	-57.45	4.25	10.27	Vertical	Pass
6944.0	-49.62	-13	-36.62	-56.49	4.19	11.06	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 46 of 57

LTE Band B5-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	-66.08	-13	-53.08	-69.48	2.1	5.5	Horizontal	Pass
2473.5	-59.81	-13	-46.81	-62.93	2.64	5.76	Horizontal	Pass
3298.0	-56.66	-13	-43.66	-61.16	3.16	7.66	Horizontal	Pass
1649.0	-66.12	-13	-53.12	-69.52	2.1	5.5	Vertical	Pass
2473.5	-60.15	-13	-47.15	-63.27	2.64	5.76	Vertical	Pass
3298.0	-56.14	-13	-43.14	-60.64	3.16	7.66	Vertical	Pass

LTE Band B5-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	-65.31	-13	-52.31	-68.67	2.11	5.47	Horizontal	Pass
2496.0	-58.95	-13	-45.95	-62.1	2.66	5.81	Horizontal	Pass
3328.0	-57.03	-13	-44.03	-61.59	3.18	7.74	Horizontal	Pass
1664.0	-65.37	-13	-52.37	-68.73	2.11	5.47	Vertical	Pass
2496.0	-58.91	-13	-45.91	-62.06	2.66	5.81	Vertical	Pass
3328.0	-56.44	-13	-43.44	-61.0	3.18	7.74	Vertical	Pass

LTE Band B5-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	-64.1	-13	-51.1	-67.4	2.13	5.43	Horizontal	Pass
2518.5	-62.13	-13	-49.13	-65.32	2.67	5.86	Horizontal	Pass
3358.0	-56.66	-13	-43.66	-61.28	3.2	7.82	Horizontal	Pass
1679.0	-63.8	-13	-50.8	-67.1	2.13	5.43	Vertical	Pass
2518.5	-62.64	-13	-49.64	-65.83	2.67	5.86	Vertical	Pass
3358.0	-55.26	-13	-42.26	-59.88	3.2	7.82	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 47 of 57

LTE Band B7-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	-52.62	-25	-27.62	-58.5	4.26	10.14	Horizontal	Pass
7503.0	-47.8	-25	-22.8	-55.32	4.22	11.74	Horizontal	Pass
10004.0	-47.16	-25	-22.16	-55.11	5.08	13.03	Horizontal	Pass
5002.0	-52.22	-25	-27.22	-58.1	4.26	10.14	Vertical	Pass
7503.0	-48.0	-25	-23.0	-55.52	4.22	11.74	Vertical	Pass
10004.0	-46.87	-25	-21.87	-54.82	5.08	13.03	Vertical	Pass

LTE Band B7-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	-52.47	-25	-27.47	-58.38	4.26	10.17	Horizontal	Pass
7578.0	-48.98	-25	-23.98	-56.59	4.22	11.83	Horizontal	Pass
10104.0	-46.02	-25	-21.02	-53.99	5.08	13.05	Horizontal	Pass
5052.0	-51.78	-25	-26.78	-57.69	4.26	10.17	Vertical	Pass
7578.0	-49.95	-25	-24.95	-57.56	4.22	11.83	Vertical	Pass
10104.0	-46.3	-25	-21.3	-54.27	5.08	13.05	Vertical	Pass

LTE Band B7-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	-52.21	-25	-27.21	-58.15	4.26	10.2	Horizontal	Pass
7653.0	-48.25	-25	-23.25	-55.94	4.23	11.92	Horizontal	Pass
10204.0	-48.2	-25	-23.2	-56.19	5.08	13.07	Horizontal	Pass
5102.0	-52.48	-25	-27.48	-58.42	4.26	10.2	Vertical	Pass
7653.0	-49.22	-25	-24.22	-56.91	4.23	11.92	Vertical	Pass
10204.0	-48.9	-25	-23.9	-56.89	5.08	13.07	Vertical	Pass



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Report No.: SZCR250700303701

Page: 48 of 57

LTE Band B12-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
1399.0	-64.5	-13	-51.5	-67.81	1.93	5.24	Horizontal	Pass
2098.5	-64.38	-13	-51.38	-66.83	2.41	4.86	Horizontal	Pass
2798.0	-60.1	-13	-47.1	-63.74	2.84	6.48	Horizontal	Pass
1399.0	-63.46	-13	-50.46	-66.77	1.93	5.24	Vertical	Pass
2098.5	-64.02	-13	-51.02	-66.47	2.41	4.86	Vertical	Pass
2798.0	-60.66	-13	-47.66	-64.3	2.84	6.48	Vertical	Pass

LTE Band B12-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
1406.0	-63.22	-13	-50.22	-66.57	1.93	5.28	Horizontal	Pass
2109.0	-63.43	-13	-50.43	-65.89	2.42	4.88	Horizontal	Pass
2812.0	-58.21	-13	-45.21	-61.87	2.85	6.51	Horizontal	Pass
1406.0	-63.52	-13	-50.52	-66.87	1.93	5.28	Vertical	Pass
2109.0	-62.79	-13	-49.79	-65.25	2.42	4.88	Vertical	Pass
2812.0	-58.94	-13	-45.94	-62.6	2.85	6.51	Vertical	Pass

LTE Band B12-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
1413.0	-62.73	-13	-49.73	-66.12	1.94	5.33	Horizontal	Pass
2119.5	-61.59	-13	-48.59	-64.08	2.42	4.91	Horizontal	Pass
2826.0	-58.86	-13	-45.86	-62.54	2.86	6.54	Horizontal	Pass
1413.0	-62.73	-13	-49.73	-66.12	1.94	5.33	Vertical	Pass
2119.5	-62.46	-13	-49.46	-64.95	2.42	4.91	Vertical	Pass
2826.0	-58.41	-13	-45.41	-62.09	2.86	6.54	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 49 of 57

LTE Band B13-Low channel, Modulation: QPSK, Bandwidth:5MHz, 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
1554.5	-65.92	-13	-52.92	-69.62	2.04	5.74	Horizontal	Pass
2331.75	-62.2	-13	-49.2	-65.06	2.56	5.42	Horizontal	Pass
3109.0	-55.68	-13	-42.68	-59.84	3.03	7.19	Horizontal	Pass
1554.5	-67.1	-13	-54.1	-70.8	2.04	5.74	Vertical	Pass
2331.75	-62.65	-13	-49.65	-65.51	2.56	5.42	Vertical	Pass
3109.0	-55.7	-13	-42.7	-59.86	3.03	7.19	Vertical	Pass

LTE Band B13-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 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
1559.5	-65.29	-40	-25.29	-68.98	2.04	5.73	Horizontal	Pass
2339.25	-62.34	-13	-49.34	-65.21	2.56	5.43	Horizontal	Pass
3119.0	-56.1	-13	-43.1	-60.28	3.04	7.22	Horizontal	Pass
1559.5	-66.03	-40	-26.03	-69.72	2.04	5.73	Vertical	Pass
2339.25	-60.73	-13	-47.73	-63.6	2.56	5.43	Vertical	Pass
3119.0	-55.29	-13	-42.29	-59.47	3.04	7.22	Vertical	Pass

LTE Band B13-High channel, Modulation: QPSK, Bandwidth:5MHz, 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
1564.5	-63.15	-40	-23.15	-66.82	2.05	5.72	Horizontal	Pass
2346.75	-62.16	-13	-49.16	-65.05	2.56	5.45	Horizontal	Pass
3129.0	-56.34	-13	-43.34	-60.53	3.05	7.24	Horizontal	Pass
1564.5	-65.8	-40	-25.8	-69.47	2.05	5.72	Vertical	Pass
2346.75	-61.54	-13	-48.54	-64.43	2.56	5.45	Vertical	Pass
3129.0	-55.78	-13	-42.78	-59.97	3.05	7.24	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 50 of 57

LTE Band B14-Low channel, Modulation: QPSK, Bandwidth:5MHz, 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
1576.5	-61.03	-40	-21.03	-64.67	2.05	5.69	Horizontal	Pass
2364.75	-57.88	-13	-44.88	-60.8	2.58	5.5	Horizontal	Pass
3153.0	-55.92	-13	-42.92	-60.16	3.06	7.3	Horizontal	Pass
1576.5	-62.2	-40	-22.2	-65.84	2.05	5.69	Vertical	Pass
2364.75	-57.78	-13	-44.78	-60.7	2.58	5.5	Vertical	Pass
3153.0	-56.91	-13	-43.91	-61.15	3.06	7.3	Vertical	Pass

LTE Band B14-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 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
1581.5	-60.76	-40	-20.76	-64.37	2.06	5.67	Horizontal	Pass
2372.25	-57.0	-13	-44.0	-59.93	2.58	5.51	Horizontal	Pass
3163.0	-56.22	-13	-43.22	-60.48	3.07	7.33	Horizontal	Pass
1581.5	-62.05	-40	-22.05	-65.66	2.06	5.67	Vertical	Pass
2372.25	-58.21	-13	-45.21	-61.14	2.58	5.51	Vertical	Pass
3163.0	-56.28	-13	-43.28	-60.54	3.07	7.33	Vertical	Pass

LTE Band B14-High channel, Modulation: QPSK, Bandwidth:5MHz, 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
1586.5	-62.27	-40	-22.27	-65.87	2.06	5.66	Horizontal	Pass
2379.75	-59.01	-13	-46.01	-61.95	2.59	5.53	Horizontal	Pass
3173.0	-55.43	-13	-42.43	-59.71	3.07	7.35	Horizontal	Pass
1586.5	-61.22	-40	-21.22	-64.82	2.06	5.66	Vertical	Pass
2379.75	-58.74	-13	-45.74	-61.68	2.59	5.53	Vertical	Pass
3173.0	-54.97	-13	-41.97	-59.25	3.07	7.35	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 51 of 57

LTE Band B17-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
1409.0	-62.99	-13	-49.99	-66.36	1.93	5.3	Horizontal	Pass
2113.5	-62.67	-13	-49.67	-65.14	2.42	4.89	Horizontal	Pass
2818.0	-58.17	-13	-45.17	-61.84	2.85	6.52	Horizontal	Pass
1409.0	-62.51	-13	-49.51	-65.88	1.93	5.3	Vertical	Pass
2113.5	-62.67	-13	-49.67	-65.14	2.42	4.89	Vertical	Pass
2818.0	-57.33	-13	-44.33	-61.0	2.85	6.52	Vertical	Pass

LTE Band B17-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
1411.0	-63.55	-13	-50.55	-66.93	1.94	5.32	Horizontal	Pass
2116.5	-62.56	-13	-49.56	-65.04	2.42	4.9	Horizontal	Pass
2822.0	-58.56	-13	-45.56	-62.24	2.85	6.53	Horizontal	Pass
1411.0	-64.5	-13	-51.5	-67.88	1.94	5.32	Vertical	Pass
2116.5	-62.24	-13	-49.24	-64.72	2.42	4.9	Vertical	Pass
2822.0	-58.51	-13	-45.51	-62.19	2.85	6.53	Vertical	Pass

LTE Band B17-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
1413.0	-62.39	-13	-49.39	-65.78	1.94	5.33	Horizontal	Pass
2119.5	-61.9	-13	-48.9	-64.39	2.42	4.91	Horizontal	Pass
2826.0	-58.36	-13	-45.36	-62.04	2.86	6.54	Horizontal	Pass
1413.0	-63.87	-13	-50.87	-67.26	1.94	5.33	Vertical	Pass
2119.5	-62.2	-13	-49.2	-64.69	2.42	4.91	Vertical	Pass
2826.0	-57.08	-13	-44.08	-60.76	2.86	6.54	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 52 of 57

LTE Band B25-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	-54.6	-13	-41.6	-59.62	3.42	8.44	Horizontal	Pass
5553.0	-52.51	-13	-39.51	-58.72	4.24	10.45	Horizontal	Pass
7404.0	-48.69	-13	-35.69	-56.1	4.21	11.62	Horizontal	Pass
3702.0	-54.59	-13	-41.59	-59.61	3.42	8.44	Vertical	Pass
5553.0	-52.15	-13	-39.15	-58.36	4.24	10.45	Vertical	Pass
7404.0	-48.39	-13	-35.39	-55.8	4.21	11.62	Vertical	Pass

LTE Band B25-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
3747.0	-55.15	-13	-42.15	-60.2	3.45	8.5	Horizontal	Pass
5620.5	-52.59	-13	-39.59	-58.8	4.24	10.45	Horizontal	Pass
7494.0	-47.91	-13	-34.91	-55.42	4.22	11.73	Horizontal	Pass
3747.0	-55.06	-13	-42.06	-60.11	3.45	8.5	Vertical	Pass
5620.5	-52.36	-13	-39.36	-58.57	4.24	10.45	Vertical	Pass
7494.0	-47.73	-13	-34.73	-55.24	4.22	11.73	Vertical	Pass

LTE Band B25-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
3792.0	-55.66	-13	-42.66	-60.74	3.48	8.56	Horizontal	Pass
5688.0	-52.29	-13	-39.29	-58.51	4.23	10.45	Horizontal	Pass
7584.0	-49.68	-13	-36.68	-57.3	4.22	11.84	Horizontal	Pass
3792.0	-54.65	-13	-41.65	-59.73	3.48	8.56	Vertical	Pass
5688.0	-51.95	-13	-38.95	-58.17	4.23	10.45	Vertical	Pass
7584.0	-48.74	-13	-35.74	-56.36	4.22	11.84	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 53 of 57

LTE Band B26(814~824 MHz)-Low channel, Modulation: QPSK, Bandwidth:5MHz, 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
1628.5	-66.72	-13	-53.72	-70.19	2.09	5.56	Horizontal	Pass
2442.75	-64.01	-13	-51.01	-67.07	2.62	5.68	Horizontal	Pass
3257.0	-58.57	-13	-45.57	-63.0	3.13	7.56	Horizontal	Pass
1628.5	-67.53	-13	-54.53	-71.0	2.09	5.56	Vertical	Pass
2442.75	-65.65	-13	-52.65	-68.71	2.62	5.68	Vertical	Pass
3257.0	-58.46	-13	-45.46	-62.89	3.13	7.56	Vertical	Pass

LTE Band B26(814~824 MHz)-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 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
1633.5	-67.63	-13	-54.63	-71.08	2.09	5.54	Horizontal	Pass
2450.25	-66.04	-13	-53.04	-69.11	2.63	5.7	Horizontal	Pass
3267.0	-58.28	-13	-45.28	-62.73	3.14	7.59	Horizontal	Pass
1633.5	-66.75	-13	-53.75	-70.2	2.09	5.54	Vertical	Pass
2450.25	-65.25	-13	-52.25	-68.32	2.63	5.7	Vertical	Pass
3267.0	-58.05	-13	-45.05	-62.5	3.14	7.59	Vertical	Pass

LTE Band B26(814~824 MHz)-High channel, Modulation: QPSK, Bandwidth:5MHz, 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
1638.5	-68.54	-13	-55.54	-71.97	2.1	5.53	Horizontal	Pass
2457.75	-62.87	-13	-49.87	-65.96	2.63	5.72	Horizontal	Pass
3277.0	-57.88	-13	-44.88	-62.35	3.14	7.61	Horizontal	Pass
1638.5	-67.0	-13	-54.0	-70.43	2.1	5.53	Vertical	Pass
2457.75	-63.5	-13	-50.5	-66.59	2.63	5.72	Vertical	Pass
3277.0	-56.72	-13	-43.72	-61.19	3.14	7.61	Vertical	Pass



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Report No.: SZCR250700303701

Page: 54 of 57

LTE Band B26(824~849 MHz)-Low channel, Modulation: QPSK, Bandwidth:15MHz, 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
1643.0	-64.04	-13	-51.04	-67.46	2.1	5.52	Horizontal	Pass
2464.5	-62.47	-13	-49.47	-65.56	2.64	5.73	Horizontal	Pass
3296.0	-56.95	-13	-43.95	-61.45	3.16	7.66	Horizontal	Pass
1643.0	-65.48	-13	-52.48	-68.9	2.1	5.52	Vertical	Pass
2464.5	-62.04	-13	-49.04	-65.13	2.64	5.73	Vertical	Pass
3296.0	-56.76	-13	-43.76	-61.26	3.16	7.66	Vertical	Pass

LTE Band B26(824~849 MHz)-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 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
1662.0	-63.49	-13	-50.49	-66.85	2.11	5.47	Horizontal	Pass
2493.0	-59.68	-13	-46.68	-62.82	2.66	5.8	Horizontal	Pass
3324.0	-56.32	-13	-43.32	-60.88	3.17	7.73	Horizontal	Pass
1662.0	-63.53	-13	-50.53	-66.89	2.11	5.47	Vertical	Pass
2493.0	-59.22	-13	-46.22	-62.36	2.66	5.8	Vertical	Pass
3324.0	-55.93	-13	-42.93	-60.49	3.17	7.73	Vertical	Pass

LTE Band B26(824~849 MHz)-High channel, Modulation: QPSK, Bandwidth:15MHz, 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
1683.0	-62.99	-13	-49.99	-66.28	2.13	5.42	Horizontal	Pass
2524.5	-61.41	-13	-48.41	-64.61	2.67	5.87	Horizontal	Pass
3366.0	-56.32	-13	-43.32	-60.96	3.2	7.84	Horizontal	Pass
1683.0	-64.24	-13	-51.24	-67.53	2.13	5.42	Vertical	Pass
2524.5	-61.45	-13	-48.45	-64.65	2.67	5.87	Vertical	Pass
3366.0	-56.05	-13	-43.05	-60.69	3.2	7.84	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 55 of 57

LTE Band B41-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
4994.0	-51.87	-25	-26.87	-57.74	4.26	10.13	Horizontal	Pass
7491.0	-49.34	-25	-24.34	-56.85	4.22	11.73	Horizontal	Pass
9988.0	-45.28	-25	-20.28	-53.25	5.07	13.04	Horizontal	Pass
4994.0	-52.47	-25	-27.47	-58.34	4.26	10.13	Vertical	Pass
7491.0	-49.17	-25	-24.17	-56.68	4.22	11.73	Vertical	Pass
9988.0	-44.82	-25	-19.82	-52.79	5.07	13.04	Vertical	Pass

LTE Band B41-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
5168.0	-52.91	-25	-27.91	-58.9	4.25	10.24	Horizontal	Pass
7752.0	-50.25	-25	-25.25	-58.06	4.23	12.04	Horizontal	Pass
10336.0	-45.94	-25	-20.94	-53.95	5.08	13.09	Horizontal	Pass
5168.0	-52.5	-25	-27.5	-58.49	4.25	10.24	Vertical	Pass
7752.0	-49.61	-25	-24.61	-57.42	4.23	12.04	Vertical	Pass
10336.0	-47.29	-25	-22.29	-55.3	5.08	13.09	Vertical	Pass

LTE Band B41-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
5342.0	-52.97	-25	-27.97	-59.07	4.25	10.35	Horizontal	Pass
8013.0	-47.89	-25	-22.89	-56.0	4.24	12.35	Horizontal	Pass
10684.0	-46.84	-25	-21.84	-54.94	5.08	13.18	Horizontal	Pass
5342.0	-53.27	-25	-28.27	-59.37	4.25	10.35	Vertical	Pass
8013.0	-47.99	-25	-22.99	-56.1	4.24	12.35	Vertical	Pass
10684.0	-46.31	-25	-21.31	-54.41	5.08	13.18	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 56 of 57

LTE Band B66-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	-54.85	-13	-41.85	-59.59	3.24	7.98	Horizontal	Pass
5133.0	-51.34	-13	-38.34	-57.31	4.25	10.22	Horizontal	Pass
6844.0	-50.35	-13	-37.35	-57.09	4.19	10.93	Horizontal	Pass
3422.0	-56.3	-13	-43.3	-61.04	3.24	7.98	Vertical	Pass
5133.0	-52.22	-13	-39.22	-58.19	4.25	10.22	Vertical	Pass
6844.0	-50.78	-13	-37.78	-57.52	4.19	10.93	Vertical	Pass

LTE Band B66-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	-55.24	-13	-42.24	-60.07	3.27	8.1	Horizontal	Pass
5208.0	-51.73	-13	-38.73	-57.75	4.25	10.27	Horizontal	Pass
6944.0	-50.33	-13	-37.33	-57.2	4.19	11.06	Horizontal	Pass
3472.0	-54.92	-13	-41.92	-59.75	3.27	8.1	Vertical	Pass
5208.0	-52.49	-13	-39.49	-58.51	4.25	10.27	Vertical	Pass
6944.0	-49.7	-13	-36.7	-56.57	4.19	11.06	Vertical	Pass

LTE Band B66-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
3522.0	-56.82	-13	-43.82	-61.72	3.3	8.2	Horizontal	Pass
5283.0	-51.9	-13	-38.9	-57.97	4.25	10.32	Horizontal	Pass
7044.0	-49.44	-13	-36.44	-56.43	4.19	11.18	Horizontal	Pass
3522.0	-56.07	-13	-43.07	-60.97	3.3	8.2	Vertical	Pass
5283.0	-51.39	-13	-38.39	-57.46	4.25	10.32	Vertical	Pass
7044.0	-49.11	-13	-36.11	-56.1	4.19	11.18	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303701

Page: 57 of 57

LTE Band B71-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
1328.0	-59.92	-13	-46.92	-62.83	1.88	4.79	Horizontal	Pass
1992.0	-61.4	-13	-48.4	-63.7	2.34	4.64	Horizontal	Pass
2656.0	-57.83	-13	-44.83	-61.24	2.75	6.16	Horizontal	Pass
1328.0	-59.68	-13	-46.68	-62.59	1.88	4.79	Vertical	Pass
1992.0	-61.29	-13	-48.29	-63.59	2.34	4.64	Vertical	Pass
2656.0	-56.88	-13	-43.88	-60.29	2.75	6.16	Vertical	Pass

LTE Band B71-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
1348.0	-65.88	-13	-52.88	-68.91	1.89	4.92	Horizontal	Pass
2022.0	-61.24	-13	-48.24	-63.55	2.36	4.67	Horizontal	Pass
2696.0	-57.7	-13	-44.7	-61.17	2.78	6.25	Horizontal	Pass
1348.0	-65.45	-13	-52.45	-68.48	1.89	4.92	Vertical	Pass
2022.0	-61.68	-13	-48.68	-63.99	2.36	4.67	Vertical	Pass
2696.0	-57.31	-13	-44.31	-60.78	2.78	6.25	Vertical	Pass

LTE Band B71-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
1358.0	-59.62	-13	-46.62	-62.7	1.9	4.98	Horizontal	Pass
2037.0	-61.32	-13	-48.32	-63.66	2.37	4.71	Horizontal	Pass
2716.0	-58.2	-13	-45.2	-61.71	2.79	6.3	Horizontal	Pass
1358.0	-60.64	-13	-47.64	-63.72	1.9	4.98	Vertical	Pass
2037.0	-61.2	-13	-48.2	-63.54	2.37	4.71	Vertical	Pass
2716.0	-57.48	-13	-44.48	-60.99	2.79	6.3	Vertical	Pass

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