





SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

1 of 72

TEST REPORT

SZCR2404001514AT **Application No.:**

Quectel Wireless Solutions Co., Ltd. **Applicant:**

Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai 200233, China

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai 200233, China

5G RedCap Sub-6 GHz Module **EUT Description:**

RG255C-GL Model No.: **Trade Mark: QUECTEL**

XMR2024RG255CGL FCC ID:

Standards: 47 CFR Part 2

> 47 CFR Part 22 47 CFR Part 24 47 CFR Part 27 47 CFR Part 90 47 CFR Part 96

2024-04-24 **Date of Receipt:**

Date of Test: 2024-05-12 to 2024-06-15

Date of Issue: 2024-06-19

Test Result: PASS *

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Keny Xu Laboratory Manager



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Report No.: SZCR240400151402

Page: 2 of 72

Version

	Revision Record					
Version Chapter Date Modifier Remark						
01		2024-06-19		Original		

Prepared By	Ledai
	Leo Lai/Project Engineer
Checked By	Exic Fu
	Eric Fu/Reviewer





SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

3 of 72 Page:

Contents

1	versio	N	
2	Test S	Summary	5
	2.1	LTE Band 5/26(824~849 MHz)	5
	2.2	LTE Band 2 /25	6
	2.3	LTE Band 4 /66/70	
	2.4	LTE Band 7/38/41	8
	2.5	LTE Band 12/17	9
	2.6	LTE Band 13	10
	2.7	LTE Band 14	11
	2.8	LTE Band 26(814~824 MHz)	13
	2.9	LTE Band 30	
	2.10	LTE Band 42	16
	2.11	LTE Band 43	17
	2.12	LTE Band 71	18
	2.13	LTE Band 42/43/48	19
3	Gener	al Information	21
	3.1	Details of Client	21
	3.2	Test Location	21
	3.3	Test Facility	21
	3.4	General Description of EUT	22
	3.5	Test Mode	
	3.6	Test Environment	23
	3.7	Description of Support Units	23
	3.8	Technical Specification	
	3.9	Test Frequencies	26
4	Descri	ption of Tests	37
	4.1	Conducted Output Power	
	4.2	Effective (Isotropic) Radiated Power of Transmitter	
	4.3	EIRP Power Density	
	4.4	Occupied Bandwidth	
		-	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 4 of 72

	4.5 B	Band Edge at Antenna Terminals	41
	4.6 S	purious And Harmonic Emissions at Antenna Terminal	42
	4.7 P	eak-Average Ratio	43
	4.8 F	ield Strength of Spurious Radiation	44
	4.9 F	requency Stability / Temperature Variation	64
	4.10 T	est Setups	65
	4.10	0.1 Test Setup 1	65
	4.10	0.2 Test Setup 2	65
	4.10	0.3 Test Setup 3	66
	4.11 T	est Conditions	67
5	Main Tes	t Instruments	69
6	Measure	ment Uncertainty	71
7	Appendix	œs	72



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Report No.: SZCR240400151402

Page: 5 of 72

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	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix_LTE	Pass
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.	Section 5 of Appendix_LTE	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	±2.5ppm.	Section 2 of Appendix_LTE	Pass



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Report No.: SZCR240400151402

Page: 6 of 72

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	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix_LTE	Pass
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.	Section 5 of Appendix_LTE	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Section 2 of Appendix_LTE	Pass



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Report No.: SZCR240400151402

Page: 7 of 72

2.3 LTE Band 4 /66/70

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix_LTE	Pass
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.	Section 5 of Appendix_LTE	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix_LTE	Pass



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Report No.: SZCR240400151402

Page: 8 of 72

2.4 LTE Band 7/38/41

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio		≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §27.53(m4)	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 de ned 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.	Section 5 of Appendix_LTE	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 9 kHz 9 kHz 9 kHz X=Max {6MHz, EBW}	Section 5 of Appendix_LTE	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix_LTE	Pass



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Report No.: SZCR240400151402

Page: 9 of 72

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≤3W.	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio		Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix_LTE	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix_LTE	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix_LTE	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 10 of 72

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≤3W.	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio		Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §27.53(c)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix_LTE	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	 ≤ -13 dBm/100 kHz, from 9 kHz to 10th 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. 	Section 5 of Appendix_LTE	Pass
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.	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix_LTE	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 11 of 72

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.	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio		Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
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.	Section 5 of Appendix_LTE	Pass
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	Section 5 of Appendix_LTE	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 12 of 72

		segment, for base and fixed stations.(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.(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.	Section 5 of Appendix_LTE	Pass
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.	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Section 2 of Appendix_LTE	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 13 of 72

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.	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio		Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
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.	Section 5 of Appendix_LTE	Pass
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Section 5 of Appendix_LTE	Pass
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Section 2 of Appendix_LTE	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 14 of 72

2.9 LTE Band 30

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	EIRP ≤ 50mW/1MHz EIRP ≤ 250mW/5MHz	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio		FCC: Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §27.53(a)(4)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix_LTE	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	Figure 1: Unareast Entractions to Protect Entractions Corporation For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB	Section 5 of Appendix_LTE	Pass



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Report No.: SZCR240400151402

Page: 15 of 72

		on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.		
Field Strength of Spurious Radiation	§2.1053, §27.53(a)(4)	≤ -40dBm/MHz.	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the range of the operating frequency blocks	Section 2 of Appendix_LTE	Pass



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Report No.: SZCR240400151402

Page: 16 of 72

2.10 LTE Band 42

3450-3550:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(k)(3)	EIRP ≤ 30dBm	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio	§27.50(k)(4)	Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §27.53(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 5 of Appendix_LTE	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 5 of Appendix_LTE	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/ frequency block.	Section 2 of Appendix_LTE	Pass



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Report No.: SZCR240400151402

Page: 17 of 72

2.11 LTE Band 43

3700-3800:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio	§27.50(j)(4)	≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §27.53(I)(2)	(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.	Section 5 of Appendix_LTE	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(I)(2)	not exceed -13 dBm/MHz.	Section 5 of Appendix_LTE	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(I)(2)	not exceed -13 dBm/MHz	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix_LTE	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 18 of 72

LTE Band 71 2.12

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP≤3W	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio		Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix_LTE	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix_LTE	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 4.8 of the report	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the authorized bands of operation.	Section 2 of Appendix_LTE	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 19 of 72

LTE Band 42/43/48 2.13

3550-3700:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41	EIRP ≤ 23dBm/10MHz	Section 1 of Appendix_LTE	Pass
Peak-Average Ratio	§96.41	FCC: Limit≤13 dB	Section 4 of Appendix_LTE	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix_LTE	Pass
Adjacent Channel Leakage Ratio	§96.41	the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.	Section 5 of Appendix_LTE	Pass
Band Edges Compliance	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge.	Section 5 of Appendix_LTE	Pass
Spurious Emission at Antenna Terminals	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed –13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed –25 dBm/MHz. (2) Additional protection levels.	Section 4.8 of the report	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 20 of 72

		Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.		
Field Strength of Spurious Radiation	§2.1053, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed –13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed –25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed –25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed –40dBm/MHz.	Section 2 of Appendix_LTE	Pass
Frequency Stability	§2.1055, §96.41	Within authorized bands of operation/ frequency block.	Section 1 of Appendix_LTE	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 21 of 72

General Information 3

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057

3.3 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 Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

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. 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.

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CAB identifier: CN0006.

IC#: 4620C.

• FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an

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Test Firm Registration Number: 787754



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 22 of 72

3.4 General Description of EUT

Model No.: RG255C-GL					
Trade Mark: QUECTEL Hardware Version: R1.0 Software Version: RG255CGLABR01A02M4G IMEI: RF Conducted 864624060015957 RSE 864624060015213 Antenna Type: Class 3 Class 3 Class 3 Class 2: LTE Band 38, 41, 42, 43 B2: 1.8dBi B17: -0.5dBi B43: -7.10dBi B4: 1.2dBi B48: -6.12dBi B5: 0.3dBi B66: 1.5dBi B7: 1.4dBi B12: -0.5dBi B3: 1.4dBi B70: 1.1dBi B12: -0.5dBi B41: 1.4dBi B71: -0.9dBi B13: -0.7dBi B41: 1.4dBi B14: -0.5dBi B14: -0.5dBi<	EUT Description:	5G RedCap Sub-6 GHz Module			
R1.0	Model No.:	RG255C-GL			
Software Version: RG255CGLABR01A02M4G IMEI: RF Conducted 864624060015957 RSE 864624060015213 Antenna Type: External, ☐ Integrated Class 3 Class 2: LTE Band 38, 41, 42, 43 B2: 1.8dBi B17: -0.5dBi B43: -7.10dBi B4: 1.2dBi B4: -1.2dBi B48: -6.12dBi B5: 0.3dBi B26: 0.3dBi B66: 1.5dBi B7: 1.4dBi B30: -5.7dBi B70: 1.1dBi B12: -0.5dBi B38: 1.4dBi B71: -0.9dBi B13: -0.7dBi B41: 1.4dBi B14: -0.5dBi B41: -0.5dBi B41: -0.5dBi B41: -0.5dBi B41: -0.5dBi B41: -0.5dBi	Trade Mark:	QUECTEL			
RF Conducted 864624060015957	Hardware Version:	R1.0			
MREI: RSE 864624060015213 Antenna Type: ☑ External, ☐ Integrated Class 3 Class 2: LTE Band 38, 41, 42, 43 B2: 1.8dBi B17: -0.5dBi B43: -7.10dBi B4: 1.2dBi B25: 1.8dBi B48: -6.12dBi B5: 0.3dBi B26: 0.3dBi B66: 1.5dBi B7: 1.4dBi B30: -5.7dBi B70: 1.1dBi B12: -0.5dBi B38: 1.4dBi B71: -0.9dBi B13: -0.7dBi B41: 1.4dBi B71: -0.9dBi Note: The antenna gain are derived from the gain information report provided by the manufacturer. 9kHz ~ 30MHz 30MHz ~ 1000MHz 1000MHz ~ 2000MHz (0.3dB) (0.6dB) (0.8dB) 2000MHz ~ 4000MHz ~ 4000MHz ~ 6000MHz ~ 6000MHz ~ 6000MHz ~ 12750MHz (1.1dB) (1.8dB) (2.6dB)	Software Version:	RG255CGLABR01A02M4G	ì		
Antenna Type:	IN A E I	RF Conducted	864624060015957		
Class 3 Class 2: LTE Band 38, 41, 42, 43	IMEI:	RSE	864624060015213		
Antenna Gain: Class 2: LTE Band 38, 41, 42, 43 B2: 1.8dBi B17: -0.5dBi B43: -7.10dBi B4: 1.2dBi B25: 1.8dBi B48: -6.12dBi B5: 0.3dBi B26: 0.3dBi B66: 1.5dBi B7: 1.4dBi B30: -5.7dBi B70: 1.1dBi B12: -0.5dBi B38: 1.4dBi B71: -0.9dBi B13: -0.7dBi B41: 1.4dBi B14: -0.5dBi B42: -2.01dBi Note: The antenna gain are derived from the gain information report provided by the manufacturer. PkHz ~ 30MHz	Antenna Type:				
B4: 1.2dBi B25: 1.8dBi B48: -6.12dBi B5: 0.3dBi B26: 0.3dBi B66: 1.5dBi B7: 1.4dBi B30: -5.7dBi B70: 1.1dBi B12: -0.5dBi B38: 1.4dBi B71: -0.9dBi B13: -0.7dBi B41: 1.4dBi B14: -0.5dBi B42: -2.01dBi Note: The antenna gain are derived from the gain information report provided by the manufacturer. 9kHz ~ 30MHz	HPUE Power Class:				
(0.3dB) (0.6dB) (0.8dB) RF Cable: 2000MHz ~ 4000MHz	Antenna Gain:	B4: 1.2dBi B25: 1.8dBi B48: -6.12dBi B5: 0.3dBi B26: 0.3dBi B66: 1.5dBi B7: 1.4dBi B30: -5.7dBi B70: 1.1dBi B12: -0.5dBi B38: 1.4dBi B71: -0.9dBi B13: -0.7dBi B41: 1.4dBi B14: -0.5dBi B42: -2.01dBi Note: The antenna gain are derived from the gain information report provided by the			
	RF Cable:	(0.3dB) 2000MHz ~ 4000MHz	(0.6dB) 4000MHz ~ 6000MHz	(0.8dB) z 6000MHz ~ 12750MHz	
Above 12/50MHz (3.5dB)		Above 12750MHz (3.5dB)			

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.



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Report No.: SZCR240400151402

Page: 23 of 72

3.5 Test Mode

Test Mode	Test Modes Description	
LTE/TM1	LTE system, QPSK modulation	
LTE/TM2	LTE system, 16QAM modulation	
LTE/TM3	LTE system, 64QAM modulation	
LTE/TM4	LTE system, 256QAM modulation	
Remark: The test mode(s) are selected according to relevant radio technology specifications.		

3.6 Test Environment

Environment Parameter		101.0 kPa Selected Values During Tests			
Relative Humidity	,	44-60 % RH Ambient			
Value		Temperature(°C)	Voltage(V)		
NTNV		22~25	3.8		
LTLV		-30	3.3		
LTHV		-30	4.3		
HTLV		75	3.3		
HTHV		75	4.3		
Remark:					
NV: Normal Voltage	NV: Normal Voltage LV: Low		HV: High Extreme Test Voltage		
NT: Normal Temperature	LT: Low	Extreme Test Temperature	HT: High Extreme Test Temperature		

3.7 Description of Support Units

Description	Manufacturer	Model No.					
Mother board	QUECTEL						
Remark: all above the information of table are provided by client.							



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Report No.: SZCR240400151402

Page: 24 of 72

3.8 Technical Specification

Characteristics	Description					
Radio System Type	□ LTE					
	Band	TX		RX		
	LTE Band 2	1850 to 19 ²	10 MHz	1930 to 1	990 MHz	
	LTE Band 4	1710 to 175	55 MHz	2110 to 2	155 MHz	
	LTE Band 5	824 to 849	MHz	869 to 89	4 MHz	
	LTE Band 7	2500 to 257	70 MHz	2620 to 2	.690 MHz	
	LTE Band 12	699 to 716	MHz	729 to 74	6 MHz	
	LTE Band 13	777 to 787	MHz	746 to 75	66 MHz	
	LTE Band 14	788 to 798	MHz	758 to 76	8 MHz	
	LTE Band 17	704 to 716	MHz	734 to 74	6 MHz	
	LTE Band 25	1850 to 19 ²	15MHz	1930 to 1	995 MHz	
	LTE Band 26	814 to 824	МН	859 to 86	859 to 869 MHz	
	(814 to 824 MHz)	014 10 0241011 12		000 10 00	009 to 009 WII IZ	
Supported Frequency Range	LTE Band 26	824 to 849 MHz		869 to 89	869 to 894 MHz	
	(824 to 849 MHz)				0050 tr 0000 MIL	
	LTE Band 30	2305 to 2315 MHz			2360 MHz	
	LTE Band 38	2570 to 2620 MHz			2570 to 2620 MHz	
	LTE Band 41	2496 to 269			2496 to 2690MHz	
	LTE Band 42	3450 to 355			3450 to 3550 MHz	
	LTE Band 42_ Part96	3550 to 360	00 MHz	3550 to 3	600 MHz	
	LTE Band 43	3700 to 380	00 MHz		800 MHz	
	LTE Band 43_ Part96	3600 to 370		3600 to 3	3700 MHz	
	LTE Band 48	3550 to 370	00 MHz	3550 to 3	3700 MHz	
	LTE Band 66	1710 to 178	30 MHz	2110 to 2	200 MHz	
	LTE Band 70	1695 to 17	10 MHz	1995 to 2	.020 MHz	
	LTE Band 71	663 to 698	MHz	617 to 65	2 MHz	
	LTE Band 2	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
Supported Channel Bandwidth		⊠15 MHz	⊠20 MHz			
Supported Charmer Bandwidth	LTE Band 4	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
	LIL Dalla T	⊠15 MHz	⊠20 MHz			



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Report No.: SZCR240400151402

Page: 25 of 72

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
LTE Ballu 25	⊠15 MHz	⊠20 MHz		
LTE Band 26(814-824)	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
LTE Don't 20(024,040)	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
LTE Band 26(824-849)	⊠15 MHz			
LTE Band30	⊠5 MHz	⊠10 MHz		
LTE Band38	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
LTE Band41	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
LTE Band42	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
LTE Band43	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
LTE Band48	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
LTE Band66	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
LIE DAII000	⊠15MHz	⊠20MHz		
LTE Band70	⊠5MHz	⊠10MHz	⊠15MHz	
LTE Band71	⊠5MHz	⊠10MHz	⊠15MHz	⊠20MHz



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Report No.: SZCR240400151402

Page: 26 of 72

3.9 Test Frequencies

Toot Made	Dondwidth	TV / DV		RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 18607	Channel 18900	Channel 19193
		TX	1850.7 MHz	1880 MHz	1909.3 MHz
	1.4MHz	RX	Channel 607	Channel 900	Channel 1193
		KΛ	1930.7 MHz	1960 MHz	1989.3 MHz
			Channel 18615	Channel 18900	Channel 19185
		TX	1851.5 MHz	1880 MHz	1908.5 MHz
	3MHz	RX	Channel 615	Channel 900	Channel 1185
		KΛ	1931.5 MHz	1960 MHz	1988.5 MHz
	5MHz		Channel 18625	Channel 18900	Channel 19175
		TX	1852.5 MHz	1880 MHz	1907.5 MHz
		RX	Channel 625	Channel 900	Channel1175
LTE Band 2			1932.5 MHz	1960 MHz	1987.5 MHz
LTE Ballu Z	10MHz		Channel 18650	Channel 18900	Channel 19150
		TX	1855 MHz	1880 MHz	1905 MHz
		RX	Channel 650	Channel 900	Channel 1150
			1935 MHz	1960 MHz	1985 MHz
			Channel 18675	Channel 18900	Channel 19125
		TX	1857.5 MHz	1880 MHz	1902.5 MHz
	15MHz	RX	Channel 675	Channel 900	Channel 1125
		NA	1937.5 MHz	1960 MHz	1982.5 MHz
			Channel 18700	Channel 18900	Channel 19100
		TX	1860 MHz	1880 MHz	1900 MHz
	20MHz	RX	Channel 700	Channel 900	Channel 1100
		IXX	1940 MHz	1960 MHz	1980 MHz



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 27 of 72

Toot Made	Bandwidth	TX / RX		RF Channel	
Test Mode	Dangwigth	IA/KA	Low (L)	Middle (M)	High (H)
			Channel 19957	Channel 20175	Channel 20393
		TX	1710.7 MHz	1732.5 MHz	1754.3 MHz
	1.4MHz	RX	Channel 1975	Channel 2175	Channel 2375
		KΛ	2112.5 MHz	2132.5MHz	2152.5 MHz
			Channel 19965	Channel 20175	Channel 20385
		TX	1711.5 MHz	1732.5 MHz	1753.5 MHz
	3MHz	RX	Channel 2000	Channel 2175	Channel 2350
		KA	2115 MHz	2132.5MHz	2150 MHz
			Channel 19975	Channel 20175	Channel 20375
	5MHz	TX	1712.5 MHz	1732.5 MHz	1752.5 MHz
		RX	Channel 1975	Channel 2175	Channel 2375
LTC Dond 4			2112.5 MHz	2132.5MHz	2152.5 MHz
LTE Band 4	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
			Channel 20025	Channel 20175	Channel 20325
		TX	1717.5 MHz	1732.5 MHz	1747.5 MHz
	15MHz	RX	Channel 2025	Channel 2175	Channel 2325
		100	2117.5 MHz	2132.5MHz	2147.5 MHz
			Channel 20050	Channel 20175	Channel 20300
		TX	1720 MHz	1732.5 MHz	1745 MHz
	20MHz	RX	Channel 2050	Channel 2175	Channel 2300
		KΛ	2120 MHz	2132.5MHz	2145 MHz

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



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Report No.: SZCR240400151402

Page: 28 of 72

Took Mode	Danielo dale	TV / DV		RF Channel	
Test Mode	Mode Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 20775	Channel 21100	Channel 21425
		TX	2502.5 MHz	2535 MHz	2567.5 MHz
	5MHz	RX	Channel 2775	Channel 3100	Channel 5825
		KA	2622.5 MHz	2655 MHz	2687.5 MHz
			Channel 20800	Channel 21100	Channel 21400
	10MHz	TX	2505 MHz	2535 MHz	2565 MHz
		RX	Channel 2800	Channel 3100	Channel 3400
1.TE D 1.7			2625 MHz	2655 MHz	2685 MHz
LTE Band 7		TX	Channel 20825	Channel 21100	Channel 21375
			2507.5 MHz	2535 MHz	2562.5 MHz
	15MHz	DV	Channel 2825	Channel 3100	Channel 3375
		RX	2627.5 MHz	2655 MHz	2682.5 MHz
			Channel 20850	Channel 21100	Channel 21350
		TX	2510 MHz	2535 MHz	2560 MHz
	20MHz	RX	Channel 2850	Channel 3100	Channel 3350
		IXX	2630 MHz	2655 MHz	2680 MHz

Toot Mode	Test Mode Bandwidth		RF Channel			
rest Mode	Danuwium	TX / RX	Low (L)	Middle (M)	High (H)	
			Channel 23017	Channel 23095	Channel 23173	
		TX	699.7 MHz	707.5 MHz	715.3 MHz	
	1.4MHz	RX	Channel 5017	Channel 5095	Channel 5173	
		KΛ	729.7 MHz	737.5 MHz	745.3 MHz	
			Channel 23025	Channel 23095	Channel 23165	
	3MHz	TX	700.5 MHz	707.5 MHz	714.5 MHz	
		RX	Channel 5025	Channel 5095	Channel 5165	
LTE Day 140			730.5 MHz	737.5 MHz	744.5 MHz	
LTE Band 12	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	
			Channel 23060	Channel 23095	Channel 23130	
		TX	704 MHz	707.5 MHz	711 MHz	
	10MHz	RX	Channel 5060	Channel 5095	Channel 5130	
		IVA	734 MHz	737.5 MHz	741 MHz	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 29 of 72

Test Mode	Bandwidth	vidth TX / RX	RF Channel		
rest Mode	rest wode Bandwidth	IA/KA	Low (L)	Middle (M)	High (H)
			Channel 23025	Channel 23230	Channel 23255
		TX	779.5 MHz	782 MHz	784.5 MHz
	5MHz	RX	Channel 5205	Channel 5230	Channel 5255
LTE Band 13			748.5 MHz	751 MHz	753.5 MHz
LIE Band 13	10MHz	TX	Channel 23230	Channel 23230	Channel 23230
			782 MHz	782 MHz	782 MHz
		DV	Channel 5230	Channel 5230	Channel 5230
		RX	751 MHz	751 MHz	751 MHz

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

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 30 of 72

Test Mode	Bandwidth	TX / RX		RF Channel	
rest Mode	Danuwiuin	IA/KA	Low (L)	Middle (M)	High (H)
			Channel 26047	Channel 26365	Channel 26683
		TX	1850.7 MHz	1882.5 MHz	1914.3 MHz
	1.4MHz	RX	Channel 8047	Channel 8365	Channel 8683
		KA	1930.7 MHz	1962.5 MHz	1994.3 MHz
			Channel 26055	Channel 26365	Channel 26675
		TX	1851.5 MHz	1882.5 MHz	1913.5 MHz
	3MHz	RX	Channel 8055	Channel 8365	Channel 8675
		KA	1931.5 MHz	1962.5 MHz	1993.5 MHz
			Channel 26065	Channel 26365	Channel 26665
		TX	1852.5 MHz	1882.5 MHz	1912.5 MHz
	5MHz	RX	Channel 8065	Channel 8365	Channel 8665
LTE David 05			1932.5 MHz	1962.5 MHz	1992.5 MHz
LTE Band 25			Channel 26090	Channel 26365	Channel 26640
		TX	1855 MHz	1882.5 MHz	1910 MHz
	10MHz	RX	Channel 8090	Channel 8365	Channel 8640
		NA.	1935 MHz	1962.5 MHz	1990 MHz
			Channel 26115	Channel 26365	Channel 26615
		TX	1857.5 MHz	1882.5 MHz	1907.5 MHz
	15MHz	RX	Channel 8115	Channel 8365	Channel 8615
		TOX	1937.5 MHz	1962.5 MHz	1987.5 MHz
			Channel 26140	Channel 26365	Channel 26590
		TX	1860 MHz	1882.5 MHz	1905 MHz
	20MHz	DV	Channel 8140	Channel 8365	Channel 8590
		RX	1940 MHz	1962.5 MHz	1985 MHz



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Report No.: SZCR240400151402

Page: 31 of 72

Took Mode	Donalis i alth	TV / DV		RF Channel	
Test Mode	st Mode Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 26697	Channel 26740	Channel 26783
		TX	814.7 MHz	819 MHz	823.3 MHz
	1.4MHz	RX	Channel 8697	Channel 8740	Channel 8783
		KΛ	859.7 MHz	864MHz	868.3 MHz
			Channel 26705	Channel 26740	Channel 26775
		TX	815.5 MHz	819 MHz	822.5 MHz
	3MHz	RX	Channel 8705	Channel 8740	Channel 8775
LTE Band 26			860.5 MHz	864MHz	867.5 MHz
(814-824)		TX	Channel 26715	Channel 26740	Channel 26765
(011 02 1)	51411		816.5 MHz	819 MHz	821.5 MHz
	5MHz	DV	Channel 8715	Channel 8740	Channel 8755
		RX	861.5 MHz	864MHz	866.5 MHz
			Channel 26740	Channel 26740	Channel 26740
		TX	819 MHz	819 MHz	819 MHz
	10MHz	RX	Channel 8740	Channel 8740	Channel 8740
		ľΛ	864MHz	864MHz	864MHz

Toot Made	Dondwidth	TV / DV		RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 26797	Channel 26915	Channel 27033
		TX	824.7 MHz	836.5 MHz	848.3 MHz
	1.4MHz	RX	Channel 8697	Channel 8915	Channel 9033
		NA	859.7 MHz	881.5 MHz	893.3 MHz
		>./	Channel 26805	Channel 26915	Channel 27025
	0.111	TX	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	RX	Channel 8805	Channel 8915	Channel 9025
			860.5 MHz	881.5 MHz	892.5 MHz
	51411	TX RX	Channel 26815	Channel 26915	Channel 27015
LTE Band26			826.5 MHz	836.5 MHz	846.5 MHz
(824-849)	5MHz		Channel 8815	Channel 8915	Channel 9015
(= : : : :)			871.5 MHz	881.5 MHz	891.5 MHz
		TX	Channel 26840	Channel 26915	Channel 26990
			829 MHz	836.5 MHz	844 MHz
	10MHz	RX	Channel 8840	Channel 8915	Channel 8990
		IXX	874 MHz	881.5 MHz	889 MHz
			Channel 26865	Channel 26915	Channel 26965
	15MHz	TX	831.5 MHz	836.5 MHz	841.5 MHz
		RX	Channel 8865	Channel 8915	Channel 8965
		100	876.5 MHz	881.5 MHz	886.5 MHz



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Report No.: SZCR240400151402

Page: 32 of 72

Test Mode	Bandwidth	Bandwidth TX / RX	RF Channel		
i est iviode	Dariuwiuiii	IA/KA	Low (L)	Middle (M)	High (H)
			Channel 27685	Channel27710	Channel 27735
		TX	2307.5 MHz	2310MHz	2312.5 MHz
	5MHz	RX	Channel 9795	Channel 9820	Channel 9845
LTE Band 30			2352.5MHz	2355 MHz	2357.5MHz
LIE Dallu 30		TX	Channel 27710	Channel27710	Channel27710
	10MHz		2310 MHz	2310MHz	2310MHz
		DV	Channel 9820	Channel 9820	Channel 9820
		RX	2355 MHz	2355 MHz	2355 MHz

Test Mode	Bandwidth	TX / RX		RF Channel	
rest Mode	Dariuwiuiri	IA/KA	Low (L)	Middle (M)	High (H)
	EMLI-	TX/RX	Channel 37775	Channel38000	Channel 38225
	5MHz	IAINA	2572.5 MHz	2595 MHz	2617.5 MHz
	10MHz	TX/RX	Channel 37800	Channel38000	Channel 38200
LTE Band 38	IUIVIMZ		2575 MHz	2595 MHz	2615 MHz
LIE Danu 30	15MHz	TX/RX	Channel 37825	Channel38000	Channel 38175
	IOIVITZ	INN	2577.5 MHz	2595 MHz	2612.5 MHz
	20141-	TX/RX	Channel 37850	Channel38000	Channel 38150
	20MHz	IA/NA	2580 MHz	2595 MHz	2610 MHz

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



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Report No.: SZCR240400151402

Page: 33 of 72

Toot Made	Dondwidth	TV / DV		RF Channel	
Test Mode	de Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 40115	Channel 43340	Channel 43565
		TX	3552.5 MHz	3575 MHz	3597.5 MHz
	5MHz	RX	Channel 40115	Channel 43340	Channel 43565
		KΛ	3552.5 MHz	3575 MHz	3597.5 MHz
			Channel 43140	Channel 43340	Channel 43540
		TX	3555 MHz	3575 MHz	3595 MHz
	10MHz	RX	Channel 43140	Channel 43340	Channel 43540
LTE Band 42			3555 MHz	3575 MHz	3595 MHz
(3550-3600)		TX	Channel 43165	Channel 43340	Channel 43515
,	451411		3557.5 MHz	3575 MHz	3592.5 MHz
	15MHz	RX	Channel 43165	Channel 43340	Channel 43515
		KΛ	3557.5 MHz	3575 MHz	3592.5 MHz
			Channel 43190	Channel 43340	Channel 43490
	20MHz	TX	3560 MHz	3575 MHz	3590 MHz
		RX	Channel 43190	Channel 43340	Channel 43490
		IXA	3560 MHz	3575 MHz	3590 MHz

Took Mode	Donalis i alth	TV / DV		RF Channel	
Test Mode	est Mode Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 42115	Channel 42590	Channel 43065
		TX	3452.5 MHz	3500 MHz	3547.5 MHz
	5MHz	RX	Channel 42115	Channel 42590	Channel 43065
		KA	3452.5 MHz	3500 MHz	3547.5 MHz
			Channel 42140	Channel 42590	Channel 43040
		TX	3455 MHz	3500 MHz	3545 MHz
	10MHz	RX	Channel 42140	Channel 42590	Channel 43040
LTE Band 42			3455 MHz	3500 MHz	3545 MHz
(3450-3550)		TX	Channel 42165	Channel 42590	Channel 43015
	451411		3457.5 MHz	3500 MHz	3542.5 MHz
	15MHz	DV	Channel 42165	Channel 42590	Channel 43015
		RX	3457.5 MHz	3500 MHz	3542.5 MHz
			Channel 42190	Channel 42590	Channel 42990
	20MHz	TX	3460 MHz	3500 MHz	3540 MHz
		DV	Channel 42190	Channel 42590	Channel 42990
		RX	3460 MHz	3500 MHz	3540 MHz



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Report No.: SZCR240400151402

Page: 34 of 72

Test Mode	Bandwidth	TX / RX		RF Channel	
rest Mode	Dariuwiuiri	IA/KA	Low (L)	Middle (M)	High (H)
	CNALL-	TV/DV	Channel 44615	Channel45090	Channel 45565
	5MHz	TX/RX	3702.5 MHz	3750.0 MHz	3797.5 MHz
	400411-	10MHz TX/RX	Channel 44640	Channel45090	Channel 45540
LTE Band 43	TOMHZ		3705.0 MHz	3750.0 MHz	3795.0 MHz
(3700-3800)	451411-	->-	Channel 44665	Channel45090	Channel 45515
	15MHz	TX/RX	3707.5 MHz	3750.0 MHz	3792.5 MHz
	001411-	TV/DV	Channel 44690	Channel45090	Channel 45490
	20MHz TX/RX		3710 MHz	3750.0 MHz	3790.0 MHz

Toot Mode	Donady vijelile	Bandwidth TX / RX		RF Channel			
Test Mode	Danawiain	TX/RX	Low (L)	Middle (M)	High (H)		
	CN411-	TV/DV	Channel 43615	Channel44090	Channel 44565		
	5MHz	TX/RX	3602.5 MHz	3650.0 MHz	3697.5 MHz		
	400411	TX/RX	Channel 43640	Channel44090	Channel 44540		
LTE Band 43	10MHz		3605.0 MHz	3650.0 MHz	3695.0 MHz		
(3600-3700)	458411	TX/RX	Channel 43665	Channel44090	Channel 44515		
	15MHz		3607.5 MHz	3650.0 MHz	3692.5 MHz		
	000411	TV/DV	Channel 43690	Channel44090	Channel 44490		
	20MHz TX/RX	I X/RX	3610 MHz	3650.0 MHz	3690.0 MHz		

Test Mode	Bandwidth	TX / RX	RF Channel			
Test Mode	Dariuwiuiri	1/ 5/	Low (L)	Middle (M)	High (H)	
	CNALL-	TV/DV	Channel 55265	Channel55990	Channel 56715	
	5MHz	TX/RX	3552.5 MHz	3625.0 MHz	3697.5 MHz	
	400411-	TX/RX	Channel 55290	Channel55990	Channel 56690	
LTE Band 48	10MHz		3555.0 MHz	3625.0 MHz	3695.0 MHz	
LIE Dallu 40	45111-	TX/RX	Channel 55315	Channel55990	Channel 56665	
	15MHz		3557.5 MHz	3625.0 MHz	3692.5 MHz	
	001411-	TV/DV	Channel 55340	Channel55990	Channel 56640	
	20MHz	TX/RX	3560.0 MHz	3625.0 MHz	3690.0 MHz	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 35 of 72

Test Mode	Bandwidth	TX / RX		RF Channel	
rest Mode	Danawiath	IA/RA	Low (L)	Middle (M)	High (H)
			Channel 131979	Channel 132322	Channel 132665
		TX	1710.7 MHz	1745 MHz	1779.3 MHz
	1.4MHz	RX	Channel 66443	Channel 66786	Channel 67329
		KA	2110.7 MHz	2145MHz	2199.3 MHz
			Channel 131987	Channel 132322	Channel 132657
		TX	1711.5 MHz	1745 MHz	1778.5MHz
	3MHz	RX	Channel 66451	Channel 66786	Channel 67321
		KA.	2111.5 MHz	2145MHz	2198.5MHz
			Channel 131997	Channel 132322	Channel 132647
		TX	1712.5 MHz	1745 MHz	1777.5 MHz
	5MHz	RX	Channel 66461	Channel 66786	Channel 67311
LTE Day 100			2112.5 MHz	2145MHz	2197.5 MHz
LTE Band66		TX	Channel 132022	Channel 132322	Channel 132622
			1715 MHz	1745 MHz	1775 MHz
	10MHz	RX	Channel 66486	Channel 66786	Channel 67286
			2115 MHz	2145MHz	2195 MHz
			Channel 132047	Channel 132322	Channel 132597
		TX	1717.5 MHz	1745 MHz	1772.5 MHz
	15MHz	RX	Channel 66511	Channel 66786	Channel 67261
			2117.5 MHz	2145MHz	2192.5 MHz
			Channel 132072	Channel 132322	Channel 132572
		TX	1720 MHz	1745 MHz	1770 MHz
	20MHz	RX	Channel 66536	Channel 66786	Channel 67236
		KA.	2120 MHz	2145MHz	2190 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band70	5MHz		Channnel 339500	Channnel 340500	Channnel 341500
		TX	1697.5 MHz	1702.5 MHz	1707.7 MHz
		RX	Channnel 399500	Channnel 400500	Channnel 401500
			1997.5 MHz	2002.5 MHz	2007.5 MHz
	10MHz	TX	Channnel 340000	Channnel 340500	Channnel 341000
			1700 MHz	1702.5 MHz	1705 MHz
		RX	Channnel 400000	Channnel 400500	Channnel 401000
			2000 MHz	2002.5 MHz	2005 MHz
	15MHz		/	Channnel 340500	/
		TX	/	1702.5 MHz	/
		RX	/	Channnel 400500	/
			/	2002.5 MHz	/



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 36 of 72

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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Report No.: SZCR240400151402 SZEMC-TRF-01 Rev. A/1

> Page: 37 of 72

Description of Tests

4.1 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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 38 of 72

4.2 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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Report No.: SZCR240400151402 SZEMC-TRF-01 Rev. A/1

> Page: 39 of 72

4.3 EIRP Power Density

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.3

Test Settings

- 1. Set instrument center frequency to OBW center frequency.
- 2. Set span to at least 1.5 times the OBW.
- 3. Set the RBW to the specified reference bandwidth (often 1 MHz).
- 4. Set VBW ≥ 3 × RBW.
- 5. Detector = RMS (power averaging).
- 6. Ensure that the number of measurement points in the sweep ≥ 2 × span/RBW.
- 7. Sweep time = auto couple.
- 8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- 9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).



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Report No.: SZCR240400151402

Page: 40 of 72

4.4 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
- VBW ≥ 3 x RBW
- 4. Detector = Peak
- 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



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Report No.: SZCR240400151402 SZEMC-TRF-01 Rev. A/1

> Page: 41 of 72

4.5 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 > 1% of the emission bandwidth
- VBW ≥ 3 x RBW
- Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize



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Report No.: SZCR240400151402

Page: 42 of 72

4.6 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 emissinos, 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



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> Page: 43 of 72

4.7 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

Remark: Reference test setup 1

Test Settings

- The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- Measurement BW > Emission bandwidth of signal
- 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



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Report No.: SZCR240400151402

Page: 44 of 72

4.8 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 (dBμV/m) = Measured amplitude level (dBμV) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dBμV/m) + 20 log D - 104.8; 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 (dBμV/m) = Measured amplitude level (dBμV) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dBμV/m) + 20 log D - 104.8; 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*LOG(3/1) = 9.54 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.



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Report No.: SZCR240400151402

Page: 45 of 72

	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	-55.88	-13	-42.88	-60.9	3.42	8.44	Horizontal	Pass				
5553.0	-53.0	-13	-40.0	-59.21	4.24	10.45	Horizontal	Pass				
7404.0	-50.97	-13	-37.97	-58.38	4.21	11.62	Horizontal	Pass				
3702.0	-56.5	-13	-43.5	-61.52	3.42	8.44	Vertical	Pass				
5553.0	-53.82	-13	-40.82	-60.03	4.24	10.45	Vertical	Pass				
7404.0	-52.11	-13	-39.11	-59.52	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	-56.86	-13	-43.86	-61.9	3.45	8.49	Horizontal	Pass			
5613.0	-55.35	-13	-42.35	-61.56	4.24	10.45	Horizontal	Pass			
7484.0	-50.82	-13	-37.82	-58.32	4.22	11.72	Horizontal	Pass			
3742.0	-58.35	-13	-45.35	-63.39	3.45	8.49	Vertical	Pass			
5613.0	-55.52	-13	-42.52	-61.73	4.24	10.45	Vertical	Pass			
7484.0	-51.17	-13	-38.17	-58.67	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	-57.92	-13	-44.92	-62.99	3.48	8.55	Horizontal	Pass			
5673.0	-55.28	-13	-42.28	-61.5	4.23	10.45	Horizontal	Pass			
7564.0	-51.35	-13	-38.35	-58.95	4.22	11.82	Horizontal	Pass			
3782.0	-57.77	-13	-44.77	-62.84	3.48	8.55	Vertical	Pass			
5673.0	-55.37	-13	-42.37	-61.59	4.23	10.45	Vertical	Pass			
7564.0	-51.25	-13	-38.25	-58.85	4.22	11.82	Vertical	Pass			



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Report No.: SZCR240400151402

Page: 46 of 72

	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	-58.29	-13	-45.29	-63.03	3.24	7.98	Horizontal	Pass				
5133.0	-55.08	-13	-42.08	-61.05	4.25	10.22	Horizontal	Pass				
6844.0	-53.52	-13	-40.52	-60.26	4.19	10.93	Horizontal	Pass				
3422.0	-57.84	-13	-44.84	-62.58	3.24	7.98	Vertical	Pass				
5133.0	-55.66	-13	-42.66	-61.63	4.25	10.22	Vertical	Pass				
6844.0	-53.92	-13	-40.92	-60.66	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	-58.05	-13	-45.05	-62.83	3.26	8.04	Horizontal	Pass				
5170.5	-55.25	-13	-42.25	-61.25	4.25	10.25	Horizontal	Pass				
6894.0	-53.3	-13	-40.3	-60.1	4.19	10.99	Horizontal	Pass				
3447.0	-57.99	-13	-44.99	-62.77	3.26	8.04	Vertical	Pass				
5170.5	-55.42	-13	-42.42	-61.42	4.25	10.25	Vertical	Pass				
6894.0	-53.19	-13	-40.19	-59.99	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	-58.94	-13	-45.94	-63.77	3.27	8.1	Horizontal	Pass			
5208.0	-55.12	-13	-42.12	-61.14	4.25	10.27	Horizontal	Pass			
6944.0	-52.74	-13	-39.74	-59.61	4.19	11.06	Horizontal	Pass			
3472.0	-59.31	-13	-46.31	-64.14	3.27	8.1	Vertical	Pass			
5208.0	-55.1	-13	-42.1	-61.12	4.25	10.27	Vertical	Pass			
6944.0	-52.56	-13	-39.56	-59.43	4.19	11.06	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 47 of 72

	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	-68.45	-13	-55.45	-71.85	2.1	5.5	Horizontal	Pass				
2473.5	-62.6	-13	-49.6	-65.72	2.64	5.76	Horizontal	Pass				
3298.0	-59.12	-13	-46.12	-63.62	3.16	7.66	Horizontal	Pass				
1649.0	-67.52	-13	-54.52	-70.92	2.1	5.5	Vertical	Pass				
2473.5	-62.94	-13	-49.94	-66.06	2.64	5.76	Vertical	Pass				
3298.0	-59.42	-13	-46.42	-63.92	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	-68.3	-13	-55.3	-71.66	2.11	5.47	Horizontal	Pass				
2496.0	-62.79	-13	-49.79	-65.94	2.66	5.81	Horizontal	Pass				
3328.0	-58.83	-13	-45.83	-63.39	3.18	7.74	Horizontal	Pass				
1664.0	-68.34	-13	-55.34	-71.7	2.11	5.47	Vertical	Pass				
2496.0	-63.54	-13	-50.54	-66.69	2.66	5.81	Vertical	Pass				
3328.0	-58.43	-13	-45.43	-62.99	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	-67.59	-13	-54.59	-70.89	2.13	5.43	Horizontal	Pass			
2518.5	-63.83	-13	-50.83	-67.02	2.67	5.86	Horizontal	Pass			
3358.0	-57.34	-13	-44.34	-61.96	3.2	7.82	Horizontal	Pass			
1679.0	-68.04	-13	-55.04	-71.34	2.13	5.43	Vertical	Pass			
2518.5	-63.8	-13	-50.8	-66.99	2.67	5.86	Vertical	Pass			
3358.0	-57.97	-13	-44.97	-62.59	3.2	7.82	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 48 of 72

	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	-55.44	-25	-30.44	-61.32	4.26	10.14	Horizontal	Pass				
7503.0	-50.19	-25	-25.19	-57.71	4.22	11.74	Horizontal	Pass				
10004.0	-49.81	-25	-24.81	-57.76	5.08	13.03	Horizontal	Pass				
5002.0	-54.58	-25	-29.58	-60.46	4.26	10.14	Vertical	Pass				
7503.0	-50.78	-25	-25.78	-58.3	4.22	11.74	Vertical	Pass				
10004.0	-49.49	-25	-24.49	-57.44	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	-54.82	-25	-29.82	-60.73	4.26	10.17	Horizontal	Pass				
7578.0	-50.58	-25	-25.58	-58.19	4.22	11.83	Horizontal	Pass				
10104.0	-48.54	-25	-23.54	-56.51	5.08	13.05	Horizontal	Pass				
5052.0	-55.11	-25	-30.11	-61.02	4.26	10.17	Vertical	Pass				
7578.0	-51.83	-25	-26.83	-59.44	4.22	11.83	Vertical	Pass				
10104.0	-48.78	-25	-23.78	-56.75	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	-55.48	-25	-30.48	-61.42	4.26	10.2	Horizontal	Pass			
7653.0	-51.07	-25	-26.07	-58.76	4.23	11.92	Horizontal	Pass			
10204.0	-50.35	-25	-25.35	-58.34	5.08	13.07	Horizontal	Pass			
5102.0	-55.6	-25	-30.6	-61.54	4.26	10.2	Vertical	Pass			
7653.0	-51.57	-25	-26.57	-59.26	4.23	11.92	Vertical	Pass			
10204.0	-49.86	-25	-24.86	-57.85	5.08	13.07	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 49 of 72

	LTE Band 12-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	-67.28	-13	-54.28	-70.59	1.93	5.24	Horizontal	Pass			
2098.5	-65.58	-13	-52.58	-68.03	2.41	4.86	Horizontal	Pass			
2798.0	-61.83	-13	-48.83	-65.47	2.84	6.48	Horizontal	Pass			
1399.0	-66.46	-13	-53.46	-69.77	1.93	5.24	Vertical	Pass			
2098.5	-65.33	-13	-52.33	-67.78	2.41	4.86	Vertical	Pass			
2798.0	-62.84	-13	-49.84	-66.48	2.84	6.48	Vertical	Pass			

	LTE Band 12-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	-67.36	-13	-54.36	-70.71	1.93	5.28	Horizontal	Pass			
2109.0	-65.85	-13	-52.85	-68.31	2.42	4.88	Horizontal	Pass			
2812.0	-61.79	-13	-48.79	-65.45	2.85	6.51	Horizontal	Pass			
1406.0	-67.26	-13	-54.26	-70.61	1.93	5.28	Vertical	Pass			
2109.0	-66.02	-13	-53.02	-68.48	2.42	4.88	Vertical	Pass			
2812.0	-62.02	-13	-49.02	-65.68	2.85	6.51	Vertical	Pass			

	LTE Band 12-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	-67.16	-13	-54.16	-70.55	1.94	5.33	Horizontal	Pass			
2119.5	-65.84	-13	-52.84	-68.33	2.42	4.91	Horizontal	Pass			
2826.0	-61.23	-13	-48.23	-64.91	2.86	6.54	Horizontal	Pass			
1413.0	-68.16	-13	-55.16	-71.55	1.94	5.33	Vertical	Pass			
2119.5	-65.76	-13	-52.76	-68.25	2.42	4.91	Vertical	Pass			
2826.0	-61.79	-13	-48.79	-65.47	2.86	6.54	Vertical	Pass			



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Report No.: SZCR240400151402

Page: 50 of 72

	LTE Band 13-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	-67.51	-13	-54.51	-71.21	2.04	5.74	Horizontal	Pass			
2331.75	-64.36	-13	-51.36	-67.22	2.56	5.42	Horizontal	Pass			
3109.0	-58.75	-13	-45.75	-62.91	3.03	7.19	Horizontal	Pass			
1554.5	-67.8	-13	-54.8	-71.5	2.04	5.74	Vertical	Pass			
2331.75	-66.28	-13	-53.28	-69.14	2.56	5.42	Vertical	Pass			
3109.0	-58.69	-13	-45.69	-62.85	3.03	7.19	Vertical	Pass			

	LTE Band 13-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	-67.27	-40	-27.27	-70.96	2.04	5.73	Horizontal	Pass			
2339.25	-65.58	-13	-52.58	-68.45	2.56	5.43	Horizontal	Pass			
3119.0	-59.22	-13	-46.22	-63.4	3.04	7.22	Horizontal	Pass			
1559.5	-67.87	-40	-27.87	-71.56	2.04	5.73	Vertical	Pass			
2339.25	-64.94	-13	-51.94	-67.81	2.56	5.43	Vertical	Pass			
3119.0	-58.87	-13	-45.87	-63.05	3.04	7.22	Vertical	Pass			

	LTE Band 13-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	-67.0	-40	-27.0	-70.67	2.05	5.72	Horizontal	Pass			
2346.75	-65.14	-13	-52.14	-68.03	2.56	5.45	Horizontal	Pass			
3129.0	-58.17	-13	-45.17	-62.36	3.05	7.24	Horizontal	Pass			
1564.5	-66.95	-40	-26.95	-70.62	2.05	5.72	Vertical	Pass			
2346.75	-64.84	-13	-51.84	-67.73	2.56	5.45	Vertical	Pass			
3129.0	-58.5	-13	-45.5	-62.69	3.05	7.24	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 51 of 72

	LTE Band 14-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	-67.21	-40	-27.21	-70.85	2.05	5.69	Horizontal	Pass			
2364.75	-64.28	-13	-51.28	-67.2	2.58	5.5	Horizontal	Pass			
3153.0	-58.12	-13	-45.12	-62.36	3.06	7.3	Horizontal	Pass			
1576.5	-67.21	-40	-27.21	-70.85	2.05	5.69	Vertical	Pass			
2364.75	-65.4	-13	-52.4	-68.32	2.58	5.5	Vertical	Pass			
3153.0	-57.02	-13	-44.02	-61.26	3.06	7.3	Vertical	Pass			

	LTE Band 14-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	-67.7	-40	-27.7	-71.31	2.06	5.67	Horizontal	Pass			
2372.25	-64.6	-13	-51.6	-67.53	2.58	5.51	Horizontal	Pass			
3163.0	-57.81	-13	-44.81	-62.07	3.07	7.33	Horizontal	Pass			
1581.5	-67.1	-40	-27.1	-70.71	2.06	5.67	Vertical	Pass			
2372.25	-65.76	-13	-52.76	-68.69	2.58	5.51	Vertical	Pass			
3163.0	-57.37	-13	-44.37	-61.63	3.07	7.33	Vertical	Pass			

	LTE Band 14-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	-66.38	-40	-26.38	-69.98	2.06	5.66	Horizontal	Pass			
2379.75	-64.28	-13	-51.28	-67.22	2.59	5.53	Horizontal	Pass			
3173.0	-58.14	-13	-45.14	-62.42	3.07	7.35	Horizontal	Pass			
1586.5	-67.39	-40	-27.39	-70.99	2.06	5.66	Vertical	Pass			
2379.75	-64.8	-13	-51.8	-67.74	2.59	5.53	Vertical	Pass			
3173.0	-57.85	-13	-44.85	-62.13	3.07	7.35	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 52 of 72

	LTE Band 17-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	-67.33	-13	-54.33	-70.7	1.93	5.3	Horizontal	Pass			
2113.5	-64.92	-13	-51.92	-67.39	2.42	4.89	Horizontal	Pass			
2818.0	-61.03	-13	-48.03	-64.7	2.85	6.52	Horizontal	Pass			
1409.0	-68.03	-13	-55.03	-71.4	1.93	5.3	Vertical	Pass			
2113.5	-65.14	-13	-52.14	-67.61	2.42	4.89	Vertical	Pass			
2818.0	-61.81	-13	-48.81	-65.48	2.85	6.52	Vertical	Pass			

	LTE Band 17-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	-67.23	-13	-54.23	-70.61	1.94	5.32	Horizontal	Pass			
2116.5	-66.19	-13	-53.19	-68.67	2.42	4.9	Horizontal	Pass			
2822.0	-62.29	-13	-49.29	-65.97	2.85	6.53	Horizontal	Pass			
1411.0	-68.15	-13	-55.15	-71.53	1.94	5.32	Vertical	Pass			
2116.5	-66.16	-13	-53.16	-68.64	2.42	4.9	Vertical	Pass			
2822.0	-61.28	-13	-48.28	-64.96	2.85	6.53	Vertical	Pass			

	LTE Band 17-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	-66.91	-13	-53.91	-70.3	1.94	5.33	Horizontal	Pass			
2119.5	-66.25	-13	-53.25	-68.74	2.42	4.91	Horizontal	Pass			
2826.0	-61.56	-13	-48.56	-65.24	2.86	6.54	Horizontal	Pass			
1413.0	-68.28	-13	-55.28	-71.67	1.94	5.33	Vertical	Pass			
2119.5	-66.0	-13	-53.0	-68.49	2.42	4.91	Vertical	Pass			
2826.0	-61.51	-13	-48.51	-65.19	2.86	6.54	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 53 of 72

	LTE Band 25-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	-57.93	-13	-44.93	-62.95	3.42	8.44	Horizontal	Pass			
5553.0	-54.75	-13	-41.75	-60.96	4.24	10.45	Horizontal	Pass			
7404.0	-52.18	-13	-39.18	-59.59	4.21	11.62	Horizontal	Pass			
3702.0	-57.66	-13	-44.66	-62.68	3.42	8.44	Vertical	Pass			
5553.0	-54.73	-13	-41.73	-60.94	4.24	10.45	Vertical	Pass			
7404.0	-51.44	-13	-38.44	-58.85	4.21	11.62	Vertical	Pass			

	LTE Band 25-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	-57.79	-13	-44.79	-62.84	3.45	8.5	Horizontal	Pass			
5620.5	-55.01	-13	-42.01	-61.22	4.24	10.45	Horizontal	Pass			
7494.0	-50.87	-13	-37.87	-58.38	4.22	11.73	Horizontal	Pass			
3747.0	-57.67	-13	-44.67	-62.72	3.45	8.5	Vertical	Pass			
5620.5	-54.86	-13	-41.86	-61.07	4.24	10.45	Vertical	Pass			
7494.0	-50.98	-13	-37.98	-58.49	4.22	11.73	Vertical	Pass			

	LTE Band 25-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	-57.67	-13	-44.67	-62.75	3.48	8.56	Horizontal	Pass			
5688.0	-54.94	-13	-41.94	-61.16	4.23	10.45	Horizontal	Pass			
7584.0	-52.41	-13	-39.41	-60.03	4.22	11.84	Horizontal	Pass			
3792.0	-57.82	-13	-44.82	-62.9	3.48	8.56	Vertical	Pass			
5688.0	-55.83	-13	-42.83	-62.05	4.23	10.45	Vertical	Pass			
7584.0	-51.74	-13	-38.74	-59.36	4.22	11.84	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 54 of 72

	LTE Band 26-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	-67.83	-13	-54.83	-71.25	2.1	5.52	Horizontal	Pass			
2464.5	-41.38	-13	-28.38	-44.47	2.64	5.73	Horizontal	Pass			
3296.0	-59.98	-13	-46.98	-64.48	3.16	7.66	Horizontal	Pass			
1643.0	-67.85	-13	-54.85	-71.27	2.1	5.52	Vertical	Pass			
2464.5	-64.13	-13	-51.13	-67.22	2.64	5.73	Vertical	Pass			
3296.0	-60.57	-13	-47.57	-65.07	3.16	7.66	Vertical	Pass			

	LTE Band 26-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	-68.53	-13	-55.53	-71.89	2.11	5.47	Horizontal	Pass			
2493.0	-63.69	-13	-50.69	-66.83	2.66	5.8	Horizontal	Pass			
3324.0	-58.59	-13	-45.59	-63.15	3.17	7.73	Horizontal	Pass			
1662.0	-68.24	-13	-55.24	-71.6	2.11	5.47	Vertical	Pass			
2493.0	-63.37	-13	-50.37	-66.51	2.66	5.8	Vertical	Pass			
3324.0	-58.32	-13	-45.32	-62.88	3.17	7.73	Vertical	Pass			

	LTE Band 26-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	-67.57	-13	-54.57	-70.86	2.13	5.42	Horizontal	Pass			
2524.5	-63.48	-13	-50.48	-66.68	2.67	5.87	Horizontal	Pass			
3366.0	-58.12	-13	-45.12	-62.76	3.2	7.84	Horizontal	Pass			
1683.0	-68.27	-13	-55.27	-71.56	2.13	5.42	Vertical	Pass			
2524.5	-63.68	-13	-50.68	-66.88	2.67	5.87	Vertical	Pass			
3366.0	-58.49	-13	-45.49	-63.13	3.2	7.84	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 55 of 72

	LTE Band 30-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			
4610.5	-57.04	-13	-44.04	-62.59	4.01	9.56	Horizontal	Pass			
6915.75	-53.07	-13	-40.07	-59.9	4.19	11.02	Horizontal	Pass			
9221.0	-49.79	-13	-36.79	-58.33	4.68	13.22	Horizontal	Pass			
4610.5	-56.61	-13	-43.61	-62.16	4.01	9.56	Vertical	Pass			
6915.75	-53.29	-13	-40.29	-60.12	4.19	11.02	Vertical	Pass			
9221.0	-50.69	-13	-37.69	-59.23	4.68	13.22	Vertical	Pass			

	LTE Band 30-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				
4615.5	-57.23	-13	-44.23	-62.79	4.01	9.57	Horizontal	Pass				
6923.25	-52.88	-13	-39.88	-59.72	4.19	11.03	Horizontal	Pass				
9231.0	-50.29	-13	-37.29	-58.82	4.69	13.22	Horizontal	Pass				
4615.5	-57.21	-13	-44.21	-62.77	4.01	9.57	Vertical	Pass				
6923.25	-53.26	-13	-40.26	-60.1	4.19	11.03	Vertical	Pass				
9231.0	-50.97	-13	-37.97	-59.5	4.69	13.22	Vertical	Pass				

	LTE Band 30-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			
4620.5	-57.42	-13	-44.42	-62.98	4.02	9.58	Horizontal	Pass			
6930.75	-53.76	-13	-40.76	-60.61	4.19	11.04	Horizontal	Pass			
9241.0	-49.59	-13	-36.59	-58.12	4.69	13.22	Horizontal	Pass			
4620.5	-57.96	-13	-44.96	-63.52	4.02	9.58	Vertical	Pass			
6930.75	-52.53	-13	-39.53	-59.38	4.19	11.04	Vertical	Pass			
9241.0	-49.69	-13	-36.69	-58.22	4.69	13.22	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 56 of 72

	LTE Band 38-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				
5142.0	-56.6	-25	-31.6	-62.58	4.25	10.23	Horizontal	Pass				
7713.0	-52.8	-25	-27.8	-60.56	4.23	11.99	Horizontal	Pass				
10284.0	-50.61	-25	-25.61	-58.61	5.08	13.08	Horizontal	Pass				
5142.0	-56.3	-25	-31.3	-62.28	4.25	10.23	Vertical	Pass				
7713.0	-52.8	-25	-27.8	-60.56	4.23	11.99	Vertical	Pass				
10284.0	-50.46	-25	-25.46	-58.46	5.08	13.08	Vertical	Pass				

	LTE Band 38-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			
5172.0	-55.57	-25	-30.57	-61.57	4.25	10.25	Horizontal	Pass			
7758.0	-52.11	-25	-27.11	-59.92	4.23	12.04	Horizontal	Pass			
10344.0	-50.17	-25	-25.17	-58.18	5.08	13.09	Horizontal	Pass			
5172.0	-56.5	-25	-31.5	-62.5	4.25	10.25	Vertical	Pass			
7758.0	-51.83	-25	-26.83	-59.64	4.23	12.04	Vertical	Pass			
10344.0	-50.17	-25	-25.17	-58.18	5.08	13.09	Vertical	Pass			

	LTE Band 38-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			
5202.0	-55.63	-25	-30.63	-61.65	4.25	10.27	Horizontal	Pass			
7803.0	-52.49	-25	-27.49	-60.36	4.23	12.1	Horizontal	Pass			
10404.0	-49.28	-25	-24.28	-57.3	5.08	13.1	Horizontal	Pass			
5202.0	-55.82	-25	-30.82	-61.84	4.25	10.27	Vertical	Pass			
7803.0	-52.65	-25	-27.65	-60.52	4.23	12.1	Vertical	Pass			
10404.0	-50.34	-25	-25.34	-58.36	5.08	13.1	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 57 of 72

	LTE Band 41-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	-56.01	-25	-31.01	-61.88	4.26	10.13	Horizontal	Pass				
7491.0	-51.29	-25	-26.29	-58.8	4.22	11.73	Horizontal	Pass				
9988.0	-49.34	-25	-24.34	-57.31	5.07	13.04	Horizontal	Pass				
4994.0	-55.62	-25	-30.62	-61.49	4.26	10.13	Vertical	Pass				
7491.0	-50.92	-25	-25.92	-58.43	4.22	11.73	Vertical	Pass				
9988.0	-49.68	-25	-24.68	-57.65	5.07	13.04	Vertical	Pass				

	LTE Band 41-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	-56.16	-25	-31.16	-62.15	4.25	10.24	Horizontal	Pass				
7752.0	-52.01	-25	-27.01	-59.82	4.23	12.04	Horizontal	Pass				
10336.0	-50.56	-25	-25.56	-58.57	5.08	13.09	Horizontal	Pass				
5168.0	-56.02	-25	-31.02	-62.01	4.25	10.24	Vertical	Pass				
7752.0	-51.88	-25	-26.88	-59.69	4.23	12.04	Vertical	Pass				
10336.0	-50.99	-25	-25.99	-59.0	5.08	13.09	Vertical	Pass				

	LTE Band 41-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	-54.28	-25	-29.28	-60.38	4.25	10.35	Horizontal	Pass				
8013.0	-48.92	-25	-23.92	-57.03	4.24	12.35	Horizontal	Pass				
10684.0	-48.76	-25	-23.76	-56.86	5.08	13.18	Horizontal	Pass				
5342.0	-55.49	-25	-30.49	-61.59	4.25	10.35	Vertical	Pass				
8013.0	-50.94	-25	-25.94	-59.05	4.24	12.35	Vertical	Pass				
10684.0	-48.81	-25	-23.81	-56.91	5.08	13.18	Vertical	Pass				



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 58 of 72

	LTE Band 42-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				
6802.0	-53.22	-13	-40.22	-59.91	4.19	10.88	Horizontal	Pass				
10203.0	-49.77	-13	-36.77	-57.76	5.08	13.07	Horizontal	Pass				
13604.0	-44.06	-13	-31.06	-53.17	5.14	14.25	Horizontal	Pass				
6802.0	-52.96	-13	-39.96	-59.65	4.19	10.88	Vertical	Pass				
10203.0	-49.52	-13	-36.52	-57.51	5.08	13.07	Vertical	Pass				
13604.0	-44.57	-13	-31.57	-53.68	5.14	14.25	Vertical	Pass				

	LTE Band 42-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				
6982.0	-52.75	-13	-39.75	-59.67	4.19	11.11	Horizontal	Pass				
10473.0	-49.85	-13	-36.85	-57.89	5.08	13.12	Horizontal	Pass				
13964.0	-44.26	-13	-31.26	-53.87	4.85	14.46	Horizontal	Pass				
6982.0	-51.95	-13	-38.95	-58.87	4.19	11.11	Vertical	Pass				
10473.0	-50.02	-13	-37.02	-58.06	5.08	13.12	Vertical	Pass				
13964.0	-45.47	-13	-32.47	-55.08	4.85	14.46	Vertical	Pass				

	LTE Band 42-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			
7162.0	-51.85	-13	-38.85	-58.98	4.2	11.33	Horizontal	Pass			
10743.0	-49.01	-13	-36.01	-57.12	5.08	13.19	Horizontal	Pass			
14324.0	-41.9	-13	-28.9	-51.28	5.06	14.44	Horizontal	Pass			
7162.0	-52.06	-13	-39.06	-59.19	4.2	11.33	Vertical	Pass			
10743.0	-48.27	-13	-35.27	-56.38	5.08	13.19	Vertical	Pass			
14324.0	-42.19	-13	-29.19	-51.57	5.06	14.44	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 59 of 72

	LTE Band 43-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				
7202.0	-50.9	-13	-37.9	-58.08	4.2	11.38	Horizontal	Pass				
10803.0	-45.75	-13	-32.75	-53.89	5.07	13.21	Horizontal	Pass				
14404.0	-40.64	-13	-27.64	-49.95	5.12	14.43	Horizontal	Pass				
7202.0	-50.59	-13	-37.59	-57.77	4.2	11.38	Vertical	Pass				
10803.0	-46.13	-13	-33.13	-54.27	5.07	13.21	Vertical	Pass				
14404.0	-40.76	-13	-27.76	-50.07	5.12	14.43	Vertical	Pass				

	LTE Band 43-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			
7382.0	-50.85	-13	-37.85	-58.24	4.21	11.6	Horizontal	Pass			
11073.0	-45.81	-13	-32.81	-54.01	5.07	13.27	Horizontal	Pass			
14764.0	-41.31	-13	-28.31	-50.39	5.39	14.47	Horizontal	Pass			
7382.0	-51.27	-13	-38.27	-58.66	4.21	11.6	Vertical	Pass			
11073.0	-45.33	-13	-32.33	-53.53	5.07	13.27	Vertical	Pass			
14764.0	-41.23	-13	-28.23	-50.31	5.39	14.47	Vertical	Pass			

	LTE Band 43-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			
7562.0	-50.9	-13	-37.9	-58.49	4.22	11.81	Horizontal	Pass			
11343.0	-44.73	-13	-31.73	-52.92	5.06	13.25	Horizontal	Pass			
15124.0	-38.37	-13	-25.37	-47.25	5.57	14.45	Horizontal	Pass			
7562.0	-50.6	-13	-37.6	-58.19	4.22	11.81	Vertical	Pass			
11343.0	-44.65	-13	-31.65	-52.84	5.06	13.25	Vertical	Pass			
15124.0	-38.26	-13	-25.26	-47.14	5.57	14.45	Vertical	Pass			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 60 of 72

	LTE Band 48-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				
7120.0	-55.72	-40	-15.72	-62.8	4.2	11.28	Horizontal	Pass				
10680.0	-52.65	-40	-12.65	-60.74	5.08	13.17	Horizontal	Pass				
14240.0	-48.66	-40	-8.66	-58.11	5.0	14.45	Horizontal	Pass				
7120.0	-55.55	-40	-15.55	-62.63	4.2	11.28	Vertical	Pass				
10680.0	-51.81	-40	-11.81	-59.9	5.08	13.17	Vertical	Pass				
14240.0	-49.44	-40	-9.44	-58.89	5.0	14.45	Vertical	Pass				

	LTE Band 48-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				
7232.0	-56.86	-40	-16.86	-64.07	4.2	11.41	Horizontal	Pass				
10848.0	-53.83	-40	-13.83	-61.98	5.07	13.22	Horizontal	Pass				
14464.0	-49.14	-40	-9.14	-58.4	5.16	14.42	Horizontal	Pass				
7232.0	-56.88	-40	-16.88	-64.09	4.2	11.41	Vertical	Pass				
10848.0	-52.88	-40	-12.88	-61.03	5.07	13.22	Vertical	Pass				
14464.0	-48.89	-40	-8.89	-58.15	5.16	14.42	Vertical	Pass				

	LTE Band 48-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			
7380.0	-55.14	-40	-15.14	-62.52	4.21	11.59	Horizontal	Pass			
11070.0	-49.38	-40	-9.38	-57.58	5.07	13.27	Horizontal	Pass			
14760.0	-45.97	-40	-5.97	-55.06	5.38	14.47	Horizontal	Pass			
7380.0	-55.18	-40	-15.18	-62.56	4.21	11.59	Vertical	Pass			
11070.0	-49.58	-40	-9.58	-57.78	5.07	13.27	Vertical	Pass			
14760.0	-45.65	-40	-5.65	-54.74	5.38	14.47	Vertical	Pass			



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Report No.: SZCR240400151402

Page: 61 of 72

	LTE Bai	nd 66-Low o	channel, Mo	dulation: Q	PSK, Band	width:20MH	lz, 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	-57.98	-13	-44.98	-62.72	3.24	7.98	Horizontal	Pass
5133.0	-55.54	-13	-42.54	-61.51	4.25	10.22	Horizontal	Pass
6844.0	-54.04	-13	-41.04	-60.78	4.19	10.93	Horizontal	Pass
3422.0	-58.5	-13	-45.5	-63.24	3.24	7.98	Vertical	Pass
5133.0	-55.92	-13	-42.92	-61.89	4.25	10.22	Vertical	Pass
6844.0	-54.14	-13	-41.14	-60.88	4.19	10.93	Vertical	Pass

	LTE Ban	d 66-Middle	channel, N	lodulation:	QPSK, Band	dwidth:20M	Hz, 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	-58.95	-13	-45.95	-63.78	3.27	8.1	Horizontal	Pass
5208.0	-54.87	-13	-41.87	-60.89	4.25	10.27	Horizontal	Pass
6944.0	-51.85	-13	-38.85	-58.72	4.19	11.06	Horizontal	Pass
3472.0	-58.72	-13	-45.72	-63.55	3.27	8.1	Vertical	Pass
5208.0	-55.22	-13	-42.22	-61.24	4.25	10.27	Vertical	Pass
6944.0	-53.18	-13	-40.18	-60.05	4.19	11.06	Vertical	Pass

	LTE Bar	nd 66-High	channel, Mo	odulation: C	PSK, Band	width:20MF	lz, 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	-59.0	-13	-46.0	-63.9	3.3	8.2	Horizontal	Pass
5283.0	-55.7	-13	-42.7	-61.77	4.25	10.32	Horizontal	Pass
7044.0	-51.89	-13	-38.89	-58.88	4.19	11.18	Horizontal	Pass
3522.0	-58.33	-13	-45.33	-63.23	3.3	8.2	Vertical	Pass
5283.0	-55.64	-13	-42.64	-61.71	4.25	10.32	Vertical	Pass
7044.0	-51.97	-13	-38.97	-58.96	4.19	11.18	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 62 of 72

	LTE Ba	nd 70-Low	channel, M	odulation: 0	QPSK, Band	width:5MH	z, 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
3395.0	-57.35	-13	-44.35	-62.04	3.22	7.91	Horizontal	Pass
5092.5	-54.79	-13	-41.79	-60.73	4.26	10.2	Horizontal	Pass
6790.0	-52.73	-13	-39.73	-59.4	4.19	10.86	Horizontal	Pass
3395.0	-58.35	-13	-45.35	-63.04	3.22	7.91	Vertical	Pass
5092.5	-54.9	-13	-41.9	-60.84	4.26	10.2	Vertical	Pass
6790.0	-53.2	-13	-40.2	-59.87	4.19	10.86	Vertical	Pass

	LTE Ban	d 70-Middle	e channel, N	Modulation:	QPSK, Ban	dwidth:5Ml	Hz, 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
3405.0	-57.85	-13	-44.85	-62.55	3.23	7.93	Horizontal	Pass
5107.5	-55.22	-13	-42.22	-61.17	4.26	10.21	Horizontal	Pass
6810.0	-51.56	-13	-38.56	-58.26	4.19	10.89	Horizontal	Pass
3405.0	-58.19	-13	-45.19	-62.89	3.23	7.93	Vertical	Pass
5107.5	-55.18	-13	-42.18	-61.13	4.26	10.21	Vertical	Pass
6810.0	-52.04	-13	-39.04	-58.74	4.19	10.89	Vertical	Pass

	LTE Ba	nd 70-High	channel, M	odulation: (QPSK, Band	dwidth:5MH	z, 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
3415.0	-58.16	-13	-45.16	-62.89	3.23	7.96	Horizontal	Pass
5122.5	-54.59	-13	-41.59	-60.55	4.26	10.22	Horizontal	Pass
6830.0	-52.67	-13	-39.67	-59.39	4.19	10.91	Horizontal	Pass
3415.0	-57.14	-13	-44.14	-61.87	3.23	7.96	Vertical	Pass
5122.5	-54.67	-13	-41.67	-60.63	4.26	10.22	Vertical	Pass
6830.0	-51.81	-13	-38.81	-58.53	4.19	10.91	Vertical	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 63 of 72

	LTE Ba	nd 71-Low	channel, Mo	dulation: Q	PSK, Band	width:20MH	lz, 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	-64.02	-13	-51.02	-66.93	1.88	4.79	Horizontal	Pass
1992	-65.65	-13	-52.65	-67.95	2.34	4.64	Horizontal	Pass
2656	-61.23	-13	-48.23	-64.64	2.75	6.16	Horizontal	Pass
1328	-64.21	-13	-51.21	-67.12	1.88	4.79	Vertical	Pass
1992	-65.7	-13	-52.7	-68.0	2.34	4.64	Vertical	Pass
2656	-60.68	-13	-47.68	-64.09	2.75	6.16	Vertical	Pass

	LTE Band 71-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	-66.54	-13	-53.54	-69.57	1.89	4.92	Horizontal	Pass			
2022	-65.77	-13	-52.77	-68.08	2.36	4.67	Horizontal	Pass			
2696	-61.47	-13	-48.47	-64.94	2.78	6.25	Horizontal	Pass			
1348	-65.95	-13	-52.95	-68.98	1.89	4.92	Vertical	Pass			
2022	-64.81	-13	-51.81	-67.12	2.36	4.67	Vertical	Pass			
2696	-61.79	-13	-48.79	-65.26	2.78	6.25	Vertical	Pass			

	LTE Band 71-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	-64.01	-13	-51.01	-67.09	1.9	4.98	Horizontal	Pass			
2037	-65.39	-13	-52.39	-67.73	2.37	4.71	Horizontal	Pass			
2716	-61.13	-13	-48.13	-64.64	2.79	6.3	Horizontal	Pass			
1358	-64.21	-13	-51.21	-67.29	1.9	4.98	Vertical	Pass			
2037	-65.65	-13	-52.65	-67.99	2.37	4.71	Vertical	Pass			
2716	-60.74	-13	-47.74	-64.25	2.79	6.3	Vertical	Pass			



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Report No.: SZCR240400151402 SZEMC-TRF-01 Rev. A/1

> Page: 64 of 72

4.9 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





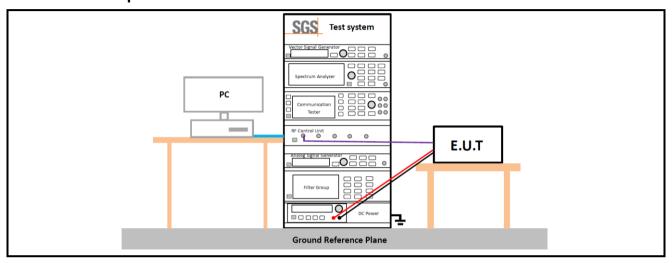
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

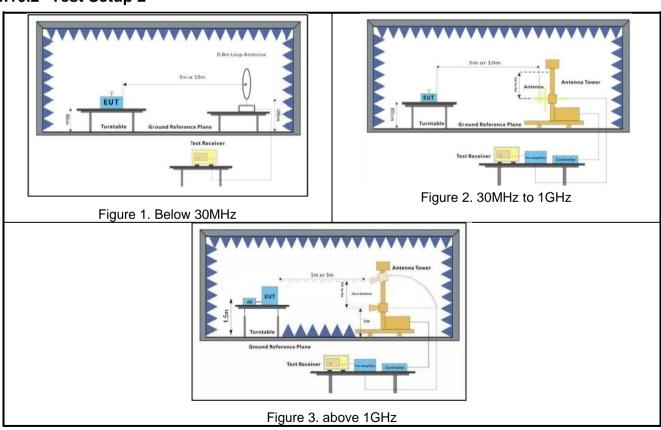
Page: 65 of 72

4.10Test Setups

4.10.1 Test Setup 1



4.10.2 Test Setup 2





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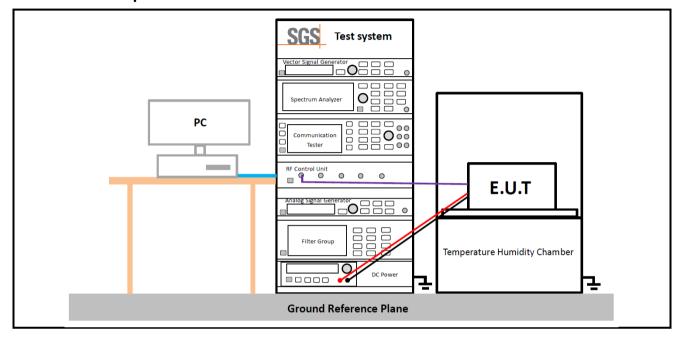


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Report No.: SZCR240400151402

Page: 66 of 72

4.10.3 Test Setup 3





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Report No.: SZCR240400151402

Page: 67 of 72

4.11Test Conditions

4.1110310011	
	Transmit Output Power Data - Average Power, Spectral Density
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1;LTE/TM2; LTE/TM3; LTE/TM4
	Peak-to-Average Ratio
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1;LTE/TM2; LTE/TM3; LTE/TM4
	Bandwidth - Occupied Bandwidth
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1;LTE/TM2; LTE/TM3; LTE/TM4
	Bandwidth - Emission Bandwidth
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1;LTE/TM2; LTE/TM3; LTE/TM4
	Adjacent Channel Leakage Ratio
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)



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Report No.: SZCR240400151402

Page: 68 of 72

Test Mode	LTE/TM1;LTE/TM2; LTE/TM3; LTE/TM4								
	Band Edges Compliance								
Test Case	Test Conditions								
Test Environment	Ambient Climate & Rated Voltage								
Test Setup	Test Setup 1								
RF Channels (TX)	L, H (L= low channel, H= high channel)								
Test Mode	LTE/TM1;LTE/TM2; LTE/TM3; LTE/TM4								
	Spurious Emission at Antenna Terminals								
Test Case	Test Conditions								
Test Environment	Ambient Climate & Rated Voltage								
Test Setup	Test Setup 1								
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)								
Test Mode	LTE/TM1;LTE/TM2; LTE/TM3; LTE/TM4								
	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.								
	Frequency Stability								
Test Case	Test Conditions								
Test Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage (2) VL, VN and VH of Rated Voltage at Ambient Climate.								
Test Setup	Test Setup 3								
RF Channels (TX)	M (M= middle channel)								
Test Mode	LTE/TM1;LTE/TM2; LTE/TM3; LTE/TM4 The report only show the bandwidth with the worst case.								



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 69 of 72

Main Test Instruments 5

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

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400151402

Page: 70 of 72

Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/09/25	2024/09/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2023/07/11	2024/07/10
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2023/07/11	2024/07/10
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023/07/11	2024/07/10
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2023/07/11	2024/07/10
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2023/06/25	2026/06/24
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024/03/14	2025/03/13

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024/03/18	2025/03/17



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Report No.: SZCR240400151402 SZEMC-TRF-01 Rev. A/1

> 71 of 72 Page:

Measurement Uncertainty 6

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	Radio Frequency	± 5.4 x 10 ⁻⁸
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 emission 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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Report No.: SZCR240400151402

Page: 72 of 72

7 Appendixes

Appendix A.1	WWAN Setup Photos
SZCR2404001514AT Appendix	LTE_band_12
SZCR2404001514AT Appendix	LTE_band_13
SZCR2404001514AT Appendix	LTE_band_14
SZCR2404001514AT Appendix	LTE_band_17
SZCR2404001514AT Appendix	LTE_band_2
SZCR2404001514AT Appendix	LTE_band_25
SZCR2404001514AT Appendix	LTE_band_26a
SZCR2404001514AT Appendix	LTE_band_26b
SZCR2404001514AT Appendix	LTE_band_26c
SZCR2404001514AT Appendix	LTE_band_30
SZCR2404001514AT Appendix	LTE_band_38
SZCR2404001514AT Appendix	LTE_band_4
SZCR2404001514AT Appendix	LTE_band_41
SZCR2404001514AT Appendix	LTE_band_42a
SZCR2404001514AT Appendix	LTE_band_42c
SZCR2404001514AT Appendix	LTE_band_43
SZCR2404001514AT Appendix	LTE_band_48
SZCR2404001514AT Appendix	LTE_band_5
SZCR2404001514AT Appendix	LTE_band_66
SZCR2404001514AT Appendix	LTE_band_7
SZCR2404001514AT Appendix	LTE_band_70
SZCR2404001514AT Appendix	LTE_band_71

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