

Report No.: SEWM2206000075RG01

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## **TEST REPORT**

Application No.: SEWM2206000075RG

Applicant: COOSEA GROUP (HK) COMPANY LIMITED

Address of Applicant: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL,

HONG KONG, CHINA

Manufacturer: COOSEA GROUP (HK) COMPANY LIMITED

Address of Manufacturer: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL,

HONG KONG, CHINA

**EUT Description:** Smart Phone

Model No.: SL104D

Trade Mark: SUMMIT

FCC ID: 2A28USL104D
Standards: 47 CFR Part 2
47 CFR Part 24

47 CFR Part 24 47 CFR Part 27 47 CFR Part 90

Date of Receipt: 2022/6/7

**Date of Test:** 2022/6/10 to 2022/7/4

**Date of Issue:** 2022/7/5

Test Result : PASS \*

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

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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### **Version**

Revision Record					
Version Chapter Date Modifier Remark					
01		2022/7/5		Original	

Prepared By	weller lin	
	(Weller Liu) / Test Supervisor	
Checked By	well wei'	
	(Well Wei) / Reviewer	



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### 2 Test Summary

### 2.1 GSM850/UMTS Band 5/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 B.1&2&5&10	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 2 of Appendix B.1&2&5&10	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.1&2&5&10	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.1&2&5&10	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 B.1&2&5&10	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 6 of Appendix B.1&2&5&10	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.1&2&5&10	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §22.355	≤ ±2.5ppm.	Section 8 of Appendix B.1&2&5&10	Pass



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#### 2.2 GSM 1900/UMTS Band 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 B.1&2&3&8	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B.1&2&3&8	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.1&2&3&8	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.1&2&3&8	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 B.1&2&3&8	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B.1&2&3&8	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.1&2&3&8	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §24.235	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.1&2&3&8	Pass



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#### 2.3 UMTS Band 4 /LTE Band 4 /66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Section 1 of Appendix B.2&4&12	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 2 of Appendix B.2&4&12	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.2&4&12	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.2&4&12	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 B.2&4&12	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B.2&4&12	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.2&4&12	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.2&4&12	Pass



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#### 2.4 LTE Band 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 B.6	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.6	Pass
Modulation Characteristics	<b>§2.1047</b>	Digital modulation	Section 3 of Appendix B.6	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.6	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 B.6	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B.6	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.6	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.6	Pass



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#### 2.5 LTE Band 14

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(c)	ERP ≤ 100 W	Section 1 of Appendix B.7	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.7	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.7	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.7	Pass
Emission Mask	§2.1051 §90.210(n)	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 B.7	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 segment, for base and fixed stations.(2) On all frequencies between 769-775 MHz	Section 6 of Appendix B.7	Pass



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		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 7 of Appendix B.7	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 8 of Appendix B.7	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §90.213	Within authorized bands of operation/frequency block.	Section 9 of Appendix B.7	Pass



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### 2.6 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 B.9	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.9	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.9	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.9	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 B.9	Pass
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Section 6 of Appendix B.9	Pass
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Section 7 of Appendix B.9	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §90.213	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.9	Pass



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#### 2.7 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 B.11	Pass
Peak-Average Ratio		FCC: Limit≤13 dB	Section 2 of Appendix B.11	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.11	Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.11	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 B.11	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	Figure 1: Unwarded Editation for biblioth, Protrate, and Loro Proor Prior Prio	Section 6 of Appendix B.11	Pass



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or email: CN.Doccheck@sgs.com Sculi of No. Fleat, No. 1, Runsleng Road, Suchou Indonéi Pack, Suchou Area, Chine (Jangsu) Plot Free Trade Zone 中国・苏州・中国(江苏)自由贸易は美区苏州上区苏州工业园区河胜商1号的6号「房南部 郎錦: 215000



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		raye.	13 01 44	_
		10 log (P) dB 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)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.11	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	within the range of the operating frequency blocks	Section 8 of Appendix B.11	Pass



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#### 2.8 LTE Band 71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP≤3W	Section 1 of Appendix B.13	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.13	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.13	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.13	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 B.13	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B.13	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.13	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	within the authorized bands of operation.	Section 8 of Appendix B.13	Pass



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#### 3 General Information

#### 3.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Weller Liu, Tizzy Song

### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

#### • FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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### 3.4 General Description of EUT

EUT Description:	Smart Phone						
Model No.:	SL104D						
Trade Mark:	SUMMIT						
Hardware Version:	1.0						
Software Version:	SL104DD10013						
Antenna Type:	☐ External, ⊠ Inte	grated					
	⊠Provided by clien	t					
	GSM850:	-1.260	dBi(ANT0)	GSM1900:		-0.23dBi(ANT1)	
	WCDMA Band II:	-0.230	dBi(ANT1)	WCDMA Bar	nd IV:	-0.84dBi(ANT1)	
	WCDMA Band V:	-1.260	dBi(ANT0)				
Antenna Gain*:	LTE Band 2:	-0.230	dBi(ANT1)	LTE Band 4:		-0.84dBi(ANT1)	
	LTE Band 5:	-1.260	dBi(ANT0)	LTE Band 12	2:	-1.78dBi(ANT0)	
	LTE Band 14:	-1.530	dBi(ANT0)	LTE Band 25	j:	-0.22dBi(ANT1)	
	LTE Band 26:	-1.26	dBi(ANT0)	LTE Band 30	):	-0.3dBi(ANT0)	
	LTE Band 66:	-0.840	dBi(ANT1)	LTE Band 71	:	-1.65dBi(ANT0)	
DE Cable	0.8dB(Below 1GHz)		1.0dB(1.0~2.	.4GHz)	1.2dE	3(2.4~3.4GHz)	
RF Cable:	1.5dB(Above 3.4GF	łz)					
Nata *Ciasa tha aharra d	. 1/ '				- 14	a a a a a local a a a a f Alaia	

Note: \*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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#### 3.5 Test Mode

Test Mode	Test Modes Description		
GSM/TM1	GSM system, GSM/GPRS, GMSK modulation		
GSM/TM2	GSM system, EGPRS, 8PSK modulation		
UMTS/TM1	UMTS system, WCDMA, QPSK modulation		
LTE/TM1	LTE system, QPSK modulation		
LTE/TM2	LTE system, 16QAM modulation		
LTE/TM3 LTE system, 64QAM modulation			
Remark: The test m	ode(s) are selected according to relevant radio technology specifications.		

#### 3.6 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests				
Relative Humidity	44-46	44-46 % RH Ambient			
Value	Temperature(°C)	Voltage(V)			
NTNV	22~23	3.8			
LTLV	-30	3.6			
LTHV	-30	4.35			
HTLV	50	3.6			
HTHV	50	4.35			
<u> </u>	ow Extreme Test Voltage ow Extreme Test Temperature	HV: High Extreme Test Voltage HT: High Extreme Test Temperature			

### 3.7 Description of Support Units

The EUT has been tested as an independent unit.



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### 3.8 Technical Specification

Characteristics	Description							
Radio System Type	⊠ GSM	□ UMTS						
	Band		T	TX			RX	
	GSM850		824 to 849 MHz			869 to 894 MHz		
	GSM1900		18	50 to 19	10 MHz		1930 to	1990 MHz
	UMTS Band II		18	1850 to 1910 MHz			1930 to	1990 MHz
	UMTS Band IV	/	17	1710 to 1755 MHz			2110 to	2155 MHz
	UMTS Band V		82	4 to 849	MHz		869 to	894 MHz
	LTE Band 2		18	50 to 19	10 MHz		1930 to	1990 MHz
	LTE Band 4		17	10 to 17	55 MHz		2110 to	2155 MHz
	LTE Band 5		82	4 to 849	MHz		869 to	894 MHz
Supported Frequency Range	LTE Band 12		69	9 to 716	MHz		729 to	746 MHz
	LTE Band 14		78	8 to 798	MHz		758 to	768 MHz
	LTE Band 25		1850 to 1915MHz			1930 to 1995 MHz		
	LTE Band 26 (814 to 824 MHz )		814 to 824MHz			859 to 869 MHz		
	LTE Band 26 (824 to 849 MHz )		824 to 849 MHz			869 to 894 MHz		
	LTE Band 30		2305 to 2315 MHz			2350 to	2360 MHz	
	LTE Band 66		1710 to 1780 MHz			2110 to	2180 MHz	
	LTE Band 71		663 to 698 MHz			617 to 652 MHz		
	GSM system:		$\boxtimes$	).2 MHz				
	UMTS system:	<u> </u>	$\boxtimes$	5 MHz				
	LTE Band 2		$\boxtimes$	1.4 MHz	⊠3 MHz		⊴5 MHz	⊠10 MHz
	LTE Dallu Z		$\boxtimes$	15 MHz	⊠20 MHz			
	LTE Band 4		$\boxtimes$	1.4 MHz	⊠3 MHz		⊴5 MHz	⊠10 MHz
Supported Channel Bandwidth	LTE Dand 4		⊠15 MHz ⊠20 MHz					
Supported Charmer Bandwidth	LTE Band 5		$\boxtimes$	1.4 MHz	⊠3 MHz		⊴5 MHz	⊠10 MHz
	LTE Band 12		Ø,	1.4 MHz	⊠3 MHz		⊴5 MHz	⊠10 MHz
	LTE Band 14		$\boxtimes$	5 MHz	⊠10 MHz			
	LTE Band 25		Ø,	1.4 MHz	⊠3 MHz		⊴5 MHz	⊠10 MHz
	LIL Dallu 20		×	15 MHz	⊠20 MHz			
	LTE Band 26(8	814-824)	Ø,	1.4 MHz	⊠3 MHz		⊴5 MHz	⊠10 MHz



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	LTE Band 26(824-849	⊠1.4 MHz ⊠3 MHz ⊠5 MHz ⊠10 MHz
	LTE Dalia 20(024-049	) ⊠15 MHz
	LTE Band30	⊠5 MHz ⊠10 MHz
	LTE Band66	⊠1.4 MHz ⊠3 MHz ⊠5 MHz ⊠10 MHz
	LIE Balluoo	⊠15MHz ⊠20MHz
	LTE Band71	⊠5MHz ⊠10MHz ⊠15MHz ⊠20MHz
		orts HSUPA, HSDPA, DC-HSDPA,HSPA+, but only sted and the data displayed in this report.
Characteristics	Description	
	GSM:	GMSK 8PSK
	GSM850	248KGXW 251KG7W
	GSM1900	246KGXW 256KG7W
	UMTS:	QPSK
	Band II	4M19F9W
	Band IV	4M17F9W
	Band V	4M18F9W
	E-UTRA:	QPSK 16QAM 64QAM
		1M09G7D 1M10W7D 1M09W7D
		2M69G7D 2M68W7D 2M69W7D
Designation of Emissions (Remark: the necessary	LTE Band 2	4M48G7D 4M48W7D 4M48W7D
bandwidth of which is the	LIL Dallu Z	8M95G7D 8M93W7D 8M95W7D
worst value from the measured occupied		13M5G7D 13M5W7D 13M5W7D
bandwidths for each type of		18M0G7D 18M0W7D 17M9W7D
channel bandwidth configuration.)		1M09G7D 1M10W7D 1M09W7D
ougaradom,		2M69G7D 2M68W7D 2M68W7D
	LTE Band 4	4M48G7D 4M48W7D 4M48W7D
	LTE Band 4	8M96G7D 8M94W7D 8M95W7D
		13M5G7D 13M5W7D 13M5W7D
		18M0G7D 17M9W7D 17M9W7D
		1M09G7D 1M10W7D 1M09W7D
	LTE Band 5	2M69G7D 2M68W7D 2M69W7D
	LIE Dallu 3	4M48G7D 4M48W7D 4M48W7D
		8M96G7D 8M93W7D 8M95W7D
	LTE Band 12	1M08G7D 1M10W7D 1M09W7D
	•	



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		2M68G7D	2M68W7D	2M69W7D
		4M48G7D	4M48W7D	4M48W7D
		8M94G7D	8M93W7D	8M94W7D
	LTC Daniel 4.4	4M48G7D	4M47W7D	4M48W7D
	LTE Band 14	8M96G7D	8M93W7D	8M95W7D
		1M09G7D	1M10W7D	1M10W7D
		2M69G7D	2M68W7D	2M69W7D
	LTE Dand OF	4M48G7D	4M47W7D	4M48W7D
	LTE Band 25	8M95G7D	8M94W7D	8M95W7D
		13M5G7D	13M5W7D	13M5W7D
		18M0G7D	17M9W7D	17M9W7D
		1M09G7D	1M10W7D	1M09W7D
	LTE Band 26	2M69G7D	2M68W7D	2M69W7D
	(814-824)	4M48G7D	4M47W7D	4M48W7D
		8M94G7D	8M93W7D	8M94W7D
		1M09G7D	1M10W7D	1M09W7D
	LTE Band 26 (824-849)	2M69G7D	2M68W7D	2M69W7D
		4M48G7D	4M48W7D	4M48W7D
		8M97G7D	8M94W7D	8M96W7D
		13M5G7D	13M5W7D	13M5W7D
	LTE Dand 20	4M50G7D	4M50W7D	4M51W7D
	LTE Band 30	8M98G7D	8M99W7D	8M98W7D
		1M09G7D	1M10W7D	1M10W7D
		2M69G7D	2M68W7D	2M69W7D
	LTE Bond 66	4M48G7D	4M48W7D	4M48W7D
	LTE Band 66	8M95G7D	8M93W7D	8M95W7D
		13M5G7D	13M5W7D	13M5W7D
		18M0G7D	17M9W7D	17M9W7D
		4M47G7D	4M48W7D	4M48W7D
	LTE Dand 74	8M95G7D	8M93W7D	8M95W7D
	LTE Band 71	13M5G7D	13M5W7D	13M5W7D
		17M9G7D	17M9W7D	17M9W7D



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### 3.9 Test Frequencies

Test Mode	TX / RX	RF Channel			
i est ivioue	IA/NA	Low (L)	Middle (M)	High (H)	
	TX	Channel 128	Channel 190	Channel 251	
GSM850		824.2MHz	836.6 MHz	848.8 MHz	
G2M850	RX	Channel 128	Channel 190	Channel 251	
		869.2 MHz	881.6 MHz	893.8 MHz	

Test Mode	TX / RX	RF Channel				
rest Mode	1// //	Low (L)	Middle (M)	High (H)		
	TX	Channel 512	Channel 661	Channel 810		
CSM1000		1850.2MHz	1880.0 MHz	1909.8 MHz		
GSM1900	DV	Channel 512	Channel 661	Channel 810		
	RX	1930.2 MHz	1960.0 MHz	1989.8 MHz		

Test Mode	TX / RX		RF Channel	
rest wode	IA/NA	Low (L)	Middle (M)	High (H)
	TX	Channel 9262	Channel 9400	Channel 9538
WCDMA Band II		1852.4 MHz	1880.0 MHz	1907.6 MHz
WCDIVIA Band II	DV	Channel 9662	Channel 9800	Channel 9938
	RX	1932.4 MHz	1960.0 MHz	1987.6 MHz

Test Mode	TX / RX		RF Channel	
1 est Mode		Low (L)	Middle (M)	High (H)
		Channel 1312	Channel 1413	Channel 1513
MCDMA Bond IV	TX	1712.4MHz	1732.6 MHz	1752.6 MHz
WCDMA Band IV	DV	Channel 1537	Channel 1638	Channel 1738
	RX	2112.4 MHz	2132.6 MHz	2152.6 MHz

Test Mode	TX / RX	RF Channel				
rest wode	1// 1//	Low (L)	Middle (M)	High (H)		
	TX	Channel 4132	Channel 4182	Channel 4233		
WCDMA Band V		826.4MHz	836.4 MHz	846.6 MHz		
WCDIVIA Band V	RX	Channel 4357	Channel 4407	Channel 4458		
		871.4 MHz	881.4 MHz	891.6 MHz		



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Took Mode	Daniel delle	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
		KA	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
		NΛ	1931.5 MHz	1960 MHz	1988.5 MHz
	5MHz	TX	Channel 18625	Channel 18900	Channel 19175
			1852.5 MHz	1880 MHz	1907.5 MHz
		RX	Channel 625	Channel 900	Channel1175
LTE Band 2			1932.5 MHz	1960 MHz	1987.5 MHz
LTE Dallu Z			Channel 18650	Channel 18900	Channel 19150
		TX	1855 MHz	1880 MHz	1905 MHz
	10MHz	RX	Channel 650	Channel 900	Channel 1150
		KΛ	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
		KA	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
		KΛ	1940 MHz	1960 MHz	1980 MHz



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Test Mode	Bandwidth	TX / RX		RF Channel	
1 GSt WIOGE	Danawiani	TA/TA	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
		NΛ	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
	5MHz		Channel 19975	Channel 20175	Channel 20375
		TX	1712.5 MHz	1732.5 MHz	1752.5 MHz
		RX	Channel 1975	Channel 2175	Channel 2375
			2112.5 MHz	2132.5MHz	2152.5 MHz
LTE Band 4			Channel 20000	Channel 20175	Channel 20350
	10MHz	TX	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	DV	Channel 2050	Channel 2175	Channel 2300
		RX	2120 MHz	2132.5MHz	2145 MHz

Toot Mode	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 Day LE			870.5 MHz	881.5 MHz	892.5 MHz
LTE Band 5		TX	Channel 20425	Channel 20525	Channel 20625
	CMI I		826.5 MHz	836.5 MHz	846.5 MHz
	5MHz	DV	Channel 2425	Channel 2525	Channel 2625
		RX	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
		INΛ	874 MHz	881.5 MHz	889 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
Test Mode	Dariuwiutii	IA/NA	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
		KA	729.7 MHz	737.5 MHz	745.3 MHz
	3MHz		Channel 23025	Channel 23095	Channel 23165
		TX	700.5 MHz	707.5 MHz	714.5 MHz
		RX	Channel 5025	Channel 5095	Channel 5165
1.75.5			730.5 MHz	737.5 MHz	744.5 MHz
LTE Band 12		TX	Channel 23035	Channel 23095	Channel 23155
	CAN I		701.5 MHz	707.5 MHz	713.5 MHz
	5MHz	DV	Channel 5035	Channel 5095	Channel 5155
		RX	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
		KΛ	734 MHz	737.5 MHz	741 MHz

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



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Test Mode	Bandwidth	TX / RX		RF Channel	
i est ivioue	Dariuwiuii	IA/IX	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
	5MHz	TX	1852.5 MHz	1882.5 MHz	1912.5 MHz
		RX	Channel 8065	Channel 8365	Channel 8665
LTE Day d OF			1932.5 MHz	1962.5 MHz	1992.5 MHz
LTE Band 25	10MHz		Channel 26090	Channel 26365	Channel 26640
		TX	1855 MHz	1882.5 MHz	1910 MHz
		RX	Channel 8090	Channel 8365	Channel 8640
		KA	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
		1177	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

Took Mode	Donalis dala	TV / DV		RF Channel	
Test 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
		KA	859.7 MHz	864MHz	868.3 MHz
			Channel 26705	Channel 26740	Channel 26775
	3MHz	TX	815.5 MHz	819 MHz	822.5 MHz
		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
(0:: 0=:)	CMI.		816.5 MHz	819 MHz	821.5 MHz
	5MHz	RX	Channel 8715	Channel 8740	Channel 8755
		KA	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
		INΛ	864MHz	864MHz	864MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
rest Mode	Dariuwiuiri		Low (L)	Middle (M)	High (H)
		TX	Channel 26797	Channel 26915	Channel 27033
			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
		TX	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	RX	Channel 8805	Channel 8915	Channel 9025
	KA	IXX	860.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TX	Channel 26815	Channel 26915	Channel 27015
LTE Band26			826.5 MHz	836.5 MHz	846.5 MHz
(824-849)		RX	Channel 8815	Channel 8915	Channel 9015
(=: ::)		KA	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
		NA.	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
		1.00	876.5 MHz	881.5 MHz	886.5 MHz

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



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F			Paţ	je. 27 01 44	•
Test Mode	Bandwidth	TX / RX	RF Channel		
rest Mode	bandwidth	IA/KA	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
	5MHz	TX	1712.5 MHz	1745 MHz	1777.5 MHz
		RX	Channel 66461	Channel 66786	Channel 67311
LTE Donder			2112.5 MHz	2145MHz	2197.5 MHz
LTE Band66	10MHz	TX	Channel 132022	Channel 132322	Channel 132622
			1715 MHz	1745 MHz	1775 MHz
		RX	Channel 66486	Channel 66786	Channel 67286
			2115 MHz	2145MHz	2195 MHz
			Channel 132047	Channel 132322	Channel 132597
		TX	1717.5 MHz	1745 MHz	1772.5 MHz
	15MHz	RX	Channel 66511	Channel 66786	Channel 67261
		100	2117.5 MHz	2145MHz	2192.5 MHz
			Channel 132072	Channel 132322	Channel 132572
		TX	1720 MHz	1745 MHz	1770 MHz
	20MHz	DV	Channel 66536	Channel 66786	Channel 67236
		RX	2120 MHz	2145MHz	2190 MHz

Took Mode	Donado de la dela	TX / RX	RF Channel		
Test Mode	de Bandwidth	IA/RA	Low (L)	Middle (M)	High (H)
		TX	Channel 133147	Channel 133297	Channel 133447
			665.5 MHz	680.5 MHz	695.5 MHz
	5MHz	RX	Channel 68611	Channel 68761	Channel 68911
		KA	619.5 MHz	634.5 MHz	649.5 MHz
			Channel 133172	Channel 133297	Channel 133422
		TX	668 MHz	680.5 MHz	693 MHz
	10MHz	RX	Channel 68636	Channel 68761	Channel 68886
L TE D		KA	622 MHz	634.5 MHz	647 MHz
LTE Band71			Channel 133197	Channel 133297	Channel 133397
	45841-	TX	670.5 MHz	680.5 MHz	690.5 MHz
	TSIVIHZ	15MHz	Channel 68661	Channel 68761	Channel 68861
		RX	624.5 MHz	634.5 MHz	644.5 MHz
			Channel 133222	Channel 133297	Channel 133372
		TX	673 MHz	680.5 MHz	688 MHz
	20MHz	RX	Channel 68686	Channel 68761	Channel 68836
		ľΛ	627 MHz	634.5 MHz	642 MHz



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South of No. F Part, No. 1, Runsherig Road, Suzhou Industrial Park, Suzhou Area, China (Jangsu) Plot Free Trade Zone 215000 中国 - 苏州 - 中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路(号的6号厂房南部 鄉編: 215000



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### 4 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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### 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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### 4.3 EIRP Power Density

Measurement Procedure: C63.26 -2015 section 5.2.4

#### **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  $\geq 2 \times \text{span/RBW}$ .
- 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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### 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

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



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### 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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### 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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#### 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 mode.

#### Remark: Reference test setup 1

#### Test Settings

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



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### 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 Z 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 (dB $\mu$ V/m) = Measured amplitude level (dB $\mu$ V) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB $\mu$ V/m) + 20 log D – 104.8; where D is the measurement distance in meters

#### Above 1GHz test procedure as below:

- 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:

 $E (dB\mu V/m) = Measured \ amplitude \ level \ (dB\mu V) + (Cable \ Loss \ (dB) + Antenna \ Factor \ (dB/m) - AMP(dB)) \\ EIRP (dBm) = E (dB\mu V/m) + 20 \log D - 104.8; \ where \ D \ is the measurement \ distance \ in meters$ 

- 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

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

Final Test Level = Receiver Reading + Factor(Antenna Factor + Cable Factor - Preamplifier Factor)

- 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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### 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  $\pm 0.00025\%$  ( $\pm 2.5$  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



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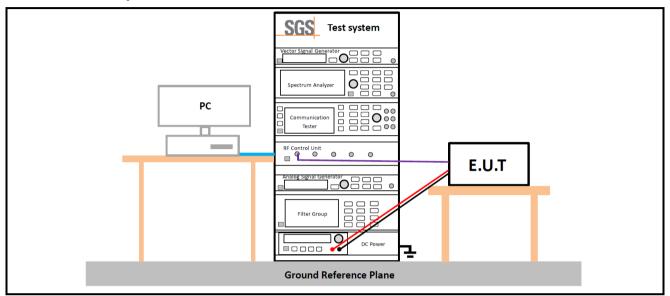


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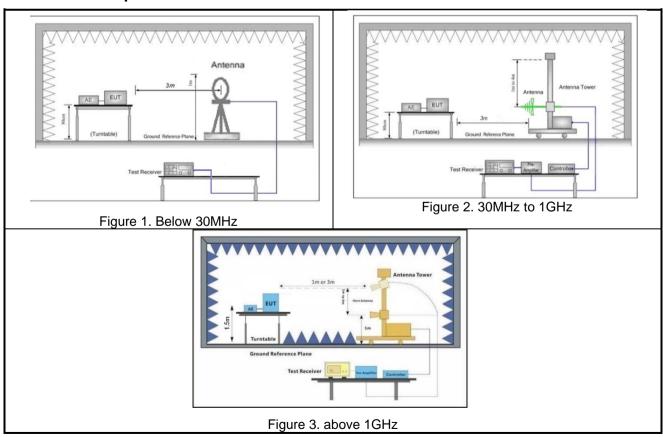
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### 4.10Test Setups

### 4.10.1 Test Setup 1



#### 4.10.2 Test Setup 2





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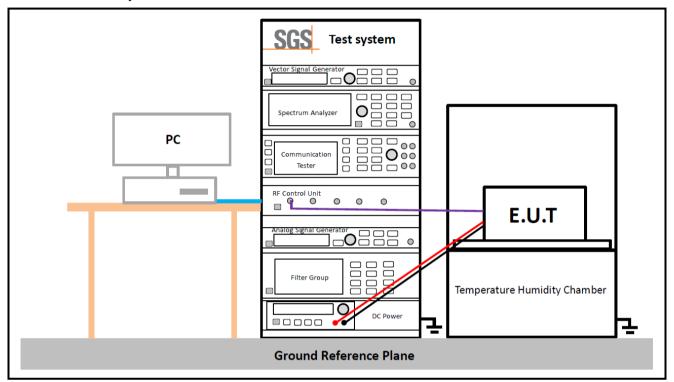


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#### 4.10.3 Test Setup 3





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#### 4.11Test Conditions

	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	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2;			
	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	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2;			
	Modulation Characteristics			
Test Case	Test Conditions			
Test Environment	Ambient Climate & Rated Voltage			
Test Setup	Test Setup 1			
RF Channels (TX)	M (M= middle channel)			
Test Mode	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2;			
	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	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2;			
	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	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2;			



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	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	GSM/TM1;UMTS/TM1;LTE/TM1
	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	GSM/TM1;UMTS/TM1;LTE/TM1
	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	GSM/TM1;UMTS/TM1;LTE/TM1 Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.
	Frequency Stability
Test Case	Test Conditions
Took Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage
Test Environment	(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	GSM/TM1;UMTS/TM1;LTE/TM1



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#### **Main Test Instruments** 5

	RF conducted test				
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/5/17	2023/5/16
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR
Radio Communication Analyzer	Anritsu	MT8821C	SUWI-01-26-03	2021/12/4	2022/12/3
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/2/14	2023/2/13
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/2/15	2023/2/14
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/5/28	2023/5/27



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/5/28	2023/5/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/2/14	2023/2/13
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2021/12/4	2022/12/3
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR



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### 6 Measurement Uncertainty

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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0%
		± 3.13dB (9k -30MHz)
7	Dodieted Emission	± 4.8dB (30M -1GHz)
/	Radiated Emission	± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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## 7 Appendixes

Appendix A.3	WWAN Setup Photos
Appendix B.1	GSM 850 & 1900
Appendix B.2	WCDMA Band II & IV & V
Appendix B.3	LTE Band 2
Appendix B.4	LTE Band 4
Appendix B.5	LTE Band 5
Appendix B.6	LTE Band 12
Appendix B.7	LTE Band 14
Appendix B.8	LTE Band 25
Appendix B.9	LTE Band 26(814-824)
Appendix B.10	LTE Band 26(824-849)
Appendix B.11	LTE Band 30
Appendix B.12	LTE Band 66
Appendix B.13	LTE Band 71

The End



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