

Report No.: SUHR/2022/1000601

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### **TEST REPORT**

Application No.: HR/2022/10006

Applicant: SEUIC Technologies Co., Ltd.

Address of Applicant: NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development

Zone,210061, Nanjing City, Jiangsu Province, China

Manufacturer: SEUIC Technologies Co., Ltd.

Address of Manufacturer: NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development

Zone,210061,Nanjing City,Jiangsu Province,China

**EUT Description:** Portable Data Collection Terminal

Model No.: CRUISE2 5GA

Trade Mark: CRUISE

FCC ID: 2AC68-CRUISE25GA

Standards: 47 CFR Part 2

47 CFR Part 22 subpart H
47 CFR Part 24 subpart E
47 CFR Part 27 subpart E
47 CFR Part 27 subpart F
47 CFR Part 27 subpart H
47 CFR Part 27 subpart L
47 CFR Part 27 subpart M
47 CFR Part 90 subpart S

**Date of Receipt:** 2022/2/7

**Date of Test:** 2022/2/10 to 2022/2/28

**Date of Issue:** 2022/3/3

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** 1

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2022/3/3		Original	

Prepared By	weller lin	
	(Weller Liu) / Engineer	
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	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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	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	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §22.355	≤ ±2.5ppm.	Section 8 of Appendix B	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	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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	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	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B	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	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	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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	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	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B	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	Pass



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#### 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 B	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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 B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge  -25dBm/ 1 MHz 1 MHz  9 kHz 95 MHz XMHz 10 <sup>th</sup> harmonics X=Max {6MHz, EBW}	Section 6 of Appendix B	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 7 of Appendix B	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	Pass



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#### 2.5 LTE Band 12/17

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Section 1 of Appendix B	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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	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	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B	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	Pass





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#### 2.6 LTE Band 13

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤ 3 W.	Section 1 of Appendix B	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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 B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	≤ -13 dBm/100 kHz, from 9 kHz to 10 <sup>th</sup> 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 6 of Appendix B	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 7 of Appendix B	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	Pass



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### 2.7 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	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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	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	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	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	Pass



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### 3 General Information

#### 3.1 Details of Client

Applicant:	SEUIC Technologies Co., Ltd.
Address of Applicant:	NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone, 210061, Nanjing City, Jiangsu Province, China
Manufacturer:	SEUIC Technologies Co., Ltd.
Address of Manufacturer:	NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone, 210061, Nanjing City, Jiangsu Province, 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, King-p Li, Nature Shen, 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:	Portable Data Collection Terminal					
Model No.:	CRUISE2 5GA					
Trade Mark:	CRUISE					
Hardware Version:	MC902A-4A_MB_P	CBA_V	1.01-A4A			
Software Version:	D740_V1.0.76					
Sample Type:		□Mod	ule			
Antenna Type:	☐External, ⊠Integ	rated				
☑Provided by client						
	GSM850:	-2dBi(ANT0);		GSM1900:		1.5dBi(ANT0);
	WCDMA Band II:	1.5dBi(ANT0);		WCDMA Band IV:		0.5dBi(ANT0);
	WCDMA Band V:	-2dBi(	(ANT0);			
Antenna Gain*:	LTE Band 2:	1.5dB	i(ANT0);	LTE Band	4:	0.5dBi(ANT0);
Antenna Gam .	LTE Band 5:	-2dBi(	(ANT0);	LTE Band	7:	2dBi(ANT0);
	LTE Band 12:	-3dBi(	(ANT0);	LTE Band	13:	-3dBi(ANT0);
	LTE Band 17:	-5dBi(	(ANT0);	LTE Band 25:		1.5dBi(ANT0);
	LTE Band 26:	-2dBi(	(ANT0);	LTE Band 38:		2dBi(ANT0);
	LTE Band 41:	2dBi(/	ANT0);	LTE Band	66:	0.5dBi(ANT0);
RF Cable*:	⊠Provided by client					
NE Cable .	Below 1GHz: 0.8dB	Bm 1GHz ~ 2		GHz: 1dBm	2.4GHz	: ~ 3.4GHz:1.2dBm

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	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	44-46 % RH Ambient				
Value	Temperature(℃) Voltage(V)				
NTNV	22~23	3.85			
LTLV	-30	3.4			
LTHV	-30	4.4			
HTLV	50	3.4			
HTHV	50	4.4			

#### Remark:

NV: Normal VoltageNT: Normal Temperature

LT: Low Extreme Test TemperatureHT: High Extreme Test TemperatureLV: Low Extreme Test VoltageHV: High Extreme Test Voltage



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### 3.7 Technical Specification

Characteristics	Description						
Radio System Type	⊠ GSM	□ UMTS					
	Band		TX		RX		
	GSM850		824 to 849 MHz		869 to 89	869 to 894 MHz	
	GSM1900		18	50 to 19	10 MHz	1930 to	1990 MHz
	UMTS Band II		18	50 to 19	10 MHz	1930 to	1990 MHz
	UMTS Band I\	J	17	10 to 17	55 MHz	2110 to 2	2155 MHz
	UMTS Band V	1	82	4 to 849	MHz	869 to 89	94 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 2	2155 MHz
	LTE Band 5		82	4 to 849	MHz	869 to 89	94 MHz
	LTE Band 7		25	00 to 25	70 MHz	2620 to 2	2690 MHz
Supported Frequency Range	LTE Band 12		69	9 to 716	MHz	729 to 7	46 MHz
	LTE Band 13		777 to 787 MHz		746 to 756 MHz		
	LTE Band 17		704 to 716 MHz		734 to 746 MHz		
	LTE Band 25		1850 to 1915MHz		1930 to	1995 MHz	
	LTE Band 26 (814 to 824 MHz )		814 to 824MHz		859 to 86	859 to 869 MHz	
	LTE Band 26 (824 to 849 MHz )		824 to 849 MHz		869 to 8	869 to 894 MHz	
	LTE Band 38		2570 to 2620 MHz		2570 to 2	2620 MHz	
	LTE Band 41		2496 to 2690MHz		2496 to 2	2496 to 2690MHz	
	LTE Band 66		17	10 to 17	80 MHz	2110 to 2	2200 MHz
	GSM system:		$\boxtimes c$	.2 MHz		1	
	UMTS system	:	⊠5	MHz			
	LTC Dand 0		⊠1	.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 2		⊠1	5 MHz	⊠20 MHz		
Supported Channel Bandwidth	ITE Dond 4		⊠1	.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 4		⊠1	5 MHz	⊠20 MHz		
	LTE Band 5		⊠1	.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 7		<b>⊠</b> 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		



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			га	ge: 1	6 of 43	
	LTE Band 17		⊠5 MHz	⊠10 MHz		
	LTE Band 25		⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
	LIL Dalla 25	L Bana 20		⊠20 MHz		
	LTE Band 26(814-824)	)	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 26(824-849	`	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 20(024-049)		⊠15 MHz			
	LTE Band38		⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
	LTE Band41		⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
	LTE Day -100		⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band66		⊠15 MHz	⊠20 MHz		
	Note1: WCDMA support case was tested and the					nly the worst
Characteristics	Description		. ,	•		
	GSM:	GS	М	EGPRS		
	GSM850	245KGXW		245KG7\	N	
	GSM1900	246KGXW		246KG7\	N	
	UMTS:	QPSK				
	Band II	4M16F9				
	Band IV	4M	17F9W			
	Band V	4M14F9W				
	E-UTRA:	QP	SK	16QAM	64	QAM
Designation of Emissions			09G7D	1M09W7	D 1N	//09W7D
(Remark: the necessary		2M	70G7D	2M69W7	D 2N	//69W7D
bandwidth of which is the worst value from the	LTE Bond 0	4M47G7D		4M47W7	D 4N	//48W7D
measured occupied	LTE Band 2	8M9	95G7D	8M92W7	D 8N	//93W7D
bandwidths for each type of channel bandwidth		13N	/I5G7D	13M5W7	D 13	M5W7D
configuration.)		17N	//9G7D	17M9W7	D 17	M9W7D
		1M	09G7D	1M09W7	D 1N	//09W7D
		2M	69G7D	2M69W7	D 2N	//69W7D
	LTC Decida	4M	48G7D	4M47W7	D 4N	//48W7D
	LTE Band 4	8M9	95G7D	8M93W7	D 8N	//95W7D
		13N	/I5G7D	13M5W7	D 13	sM4W7D
		17N	/19G7D	17M9W7	D 17	M9W7D
	1.75.0	1M	09G7D	1M09W7	D 1N	/109W7D
	LTE Band 5	2M	70G7D	2M69W7	D 2N	//69W7D



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		ago. 17 01 -	10
	4M47G7D	4M47W7D	4M48W7D
	8M94G7D	8M93W7D	8M94W7D
	4M47G7D	4M47W7D	4M48W7D
LTE Band 7	8M94G7D	8M92W7D	8M94W7D
LIE Ballu /	13M5G7D	13M5W7D	13M4W7D
	17M9G7D	17M9W7D	17M9W7D
	1M09G7D	1M09W7D	1M09W7D
LTC Dand 10	2M69G7D	2M69W7D	2M69W7D
LTE Band 12	4M47G7D	4M47W7D	4M48W7D
	8M93G7D	8M91W7D	8M93W7D
LTC D == 440	4M47G7D	4M47W7D	4M48W7D
LTE Band13	8M93G7D	8M92W7D	8M93W7D
LTC Day 4.47	4M47G7D	4M47W7D	4M48W7D
LTE Band 17	8M93G7D	8M92W7D	8M94W7D
	1M09G7D	1M09W7D	1M09W7D
	2M69G7D	2M69W7D	2M69W7D
LTE Day 4.05	4M47G7D	4M47W7D	4M48W7D
LTE Band 25	8M93G7D	8M93W7D	8M94W7D
	13M5G7D	13M5W7D	13M5W7D
	18M0G7D	17M9W7D	17M9W7D
	1M08G7D	1M09W7D	1M09W7D
LTE Band 26	2M70G7D	2M69W7D	2M70W7D
(814-824)	4M47G7D	4M47W7D	4M48W7D
	8M94G7D	8M92W7D	8M94W7D
	1M09G7D	1M09W7D	1M09W7D
	2M70G7D	2M69W7D	2M69W7D
LTE Band 26	4M47G7D	4M47W7D	4M48W7D
(824-849)	8M95G7D	8M93W7D	8M94W7D
	13M5G7D	13M5W7D	13M5W7D
	4M48G7D	4M47W7D	4M48W7D
LTE Day 400	8M93G7D	8M93W7D	8M95W7D
LTE Band 38	13M5G7D	13M5W7D	13M5W7D
	17M9G7D	17M9W7D	17M9W7D
			4M48W7D



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		8M94G7D	8M93W7D	8M94W7D
		13M5G7D	13M5W7D	13M4W7D
		17M9G7D	17M9W7D	17M9W7D
		1M09G7D	1M09W7D	1M09W7D
	LTE Band 66	2M70G7D	2M69W7D	2M69W7D
		4M47G7D	4M47W7D	4M48W7D
		8M94G7D	8M93W7D	8M94W7D
	13M5G7D	13M5W7D	13M5W7D	
		18M0G7D	17M9W7D	17M9W7D



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### 3.8 Test Frequencies

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

Test Mode	TX / RX	RF Channel				
1 est Mode	IA/ NA	Low (L)	Middle (M)	High (H)		
	TX	Channel 512	Channel 661	Channel 810		
GSM1900	1.7	1850.2MHz	1880.0 MHz	1909.8 MHz		
		Channel 512	Channel 661	Channel 810		
	RX	1930.2 MHz	1960.0 MHz	1989.8 MHz		

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

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



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			ray	e. 20 01 43	<u>,                                      </u>
Test Mode	Bandwidth	TX / RX	RF Channel		
i est ivioue	Danuwiutii	IA/NA	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
		KA	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
LIE Band 2			Channel 18650	Channel 18900	Channel 19150
		TX	1855 MHz	1880 MHz	1905 MHz
	10MHz	RX	Channel 650	Channel 900	Channel 1150
		KA	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	
rest Mode	Dariuwiutii	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
		KA	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
LTE David 4			2112.5 MHz	2132.5MHz	2152.5 MHz
LTE Band 4			Channel 20000	Channel 20175	Channel 20350
		TX	1715 MHz	1732.5 MHz	1750 MHz
	10MHz	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

Took Mode	Donalis i dilib	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	
		KΛ	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	
1.TE D 1.E			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	RX	Channel 2425	Channel 2525	Channel 2625	
		KΛ	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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Test Mode	Bandwidth	TX / RX	RF Channel		
Test Mode	Dariuwiuiii	IA/NA	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
		KΛ	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
1.75.5			2625 MHz	2655 MHz	2685 MHz
LTE Band 7		TX	Channel 20825	Channel 21100	Channel 21375
	451411		2507.5 MHz	2535 MHz	2562.5 MHz
	15MHz	RX	Channel 2825	Channel 3100	Channel 3375
		KΛ	2627.5 MHz	2655 MHz	2682.5 MHz
			Channel 20850	Channel 21100	Channel 21350
	20MHz	TX	2510 MHz	2535 MHz	2560 MHz
		RX	Channel 2850	Channel 3100	Channel 3350
		KΛ	2630 MHz	2655 MHz	2680 MHz

Took Mode	Donalis i déla	Don dividith TV / DV		RF Channel		
Test Mode	Bandwidth	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	
1.TE D 140			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	



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Test Mode	Bandwidth	TX / RX	RF Channel		
rest Mode	Dariuwiulii	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		TX	Channel 23230	Channel 23230	Channel 23230
			782 MHz	782 MHz	782 MHz
	10MHz	DV	Channel 5230	Channel 5230	Channel 5230
	RX	Γ.Λ	751 MHz	751 MHz	751 MHz

Test Mode	Bandwidth	TX / RX		RF Channel	
rest ivioue	Dariuwiutii	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			Channel 23780	Channel 23790	Channel 23800
		TX	709 MHz	710 MHz	711 MHz
	10MHz	RX	Channel 5780	Channel 5790	Channel 5800
		KΛ	739 MHz	740 MHz	741 MHz

Took Mode	Donada ai alth	TV / DV		RF Channel	
Test Mode	Bandwidth	TX / RX	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
		NA.	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
		NA.	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 Dand OF			1932.5 MHz	1962.5 MHz	1992.5 MHz
LTE Band 25	10MHz	TX	Channel 26090	Channel 26365	Channel 26640
			1855 MHz	1882.5 MHz	1910 MHz
		RX	Channel 8090	Channel 8365	Channel 8640
			1935 MHz	1962.5 MHz	1990 MHz
		_,,	Channel 26115	Channel 26365	Channel 26615
		TX	1857.5 MHz	1882.5 MHz	1907.5 MHz
	15MHz	RX	Channel 8115	Channel 8365	Channel 8615
-		100	1937.5 MHz	1962.5 MHz	1987.5 MHz
			Channel 26140	Channel 26365	Channel 26590
		TX	1860 MHz	1882.5 MHz	1905 MHz
	20MHz	RX	Channel 8140	Channel 8365	Channel 8590
		ľΛ	1940 MHz	1962.5 MHz	1985 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
rest Mode	Dariuwiuiri	IA/KA	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
(011 02 1)	CMI I		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
		NΛ	864MHz	864MHz	864MHz

Tari Marila	D1-116	Daniel de 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
	0.541.1	TX	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	RX	Channel 8805	Channel 8915	Channel 9025
		IXX	860.5 MHz	881.5 MHz	892.5 MHz
		TX RX	Channel 26815	Channel 26915	Channel 27015
LTE Band26	<b>5.4.</b> 1		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
		TX	831.5 MHz	836.5 MHz	841.5 MHz
	15MHz	RX	Channel 8865	Channel 8915	Channel 8965
			876.5 MHz	881.5 MHz	886.5 MHz



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Test Mode	Donadii i dalah	TX / RX	RF Channel			
rest Mode	Bandwidth		Low (L)	Middle (M)	High (H)	
	5MHz	TX/RX	Channel 37775	Channel38000	Channel 38225	
		IA/KA	2572.5 MHz	2595 MHz	2617.5 MHz	
	10MHz TX/RX  15MHz TX/RX  20MHz TX/RX	TX/RX	Channel 37800	Channel38000	Channel 38200	
LTC Bond 20			2575 MHz	2595 MHz	2615 MHz	
LTE Band 38		15MHz TX/RX	Channel 37825	Channel38000	Channel 38175	
			2577.5 MHz	2595 MHz	2612.5 MHz	
		COMUL- TV/DV	Channel 37850	Channel38000	Channel 38150	
		2580 MHz	2595 MHz	2610 MHz		

Test Mode	Bandwidth	TX / RX	RF Channel			
i est Mode	Dariuwiutii	IA/KA	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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Test Mode	Bandwidth	TX / RX		RF Channel	
T CSt Wood	Danawiatii	17(71(7)	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
		KX	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
	<b>53.41.1</b>	TX	1712.5 MHz	1745 MHz	1777.5 MHz
	5MHz	5MHz RX	Channel 66461	Channel 66786	Channel 67311
L TE Day -100			2112.5 MHz	2145MHz	2197.5 MHz
LTE Band66	10MHz		Channel 132022	Channel 132322	Channel 132622
		TX	1715 MHz	1745 MHz	1775 MHz
		10MHz RX	Channel 66486	Channel 66786	Channel 67286
		RA.	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



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### 4 Description of Tests

### 4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01

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; ANSI/C63.26 (2015)

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 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2

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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### 4.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

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

#### Remark: Reference test setup 1

#### Test Settings

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





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### 4.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01

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**

- Start frequency was set to 30MHz and stop frequency was set to at least 10 \* the fundamental frequency (separated into at least two plots per channel)
- Detector = RMS
- Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings





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### 4.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.1

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

#### Remark: Reference test setup 1

#### Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 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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### 4.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01

#### 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 (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.

#### 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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### 4.8 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01; ANSI/C63.26 (2015)

- . 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:

- 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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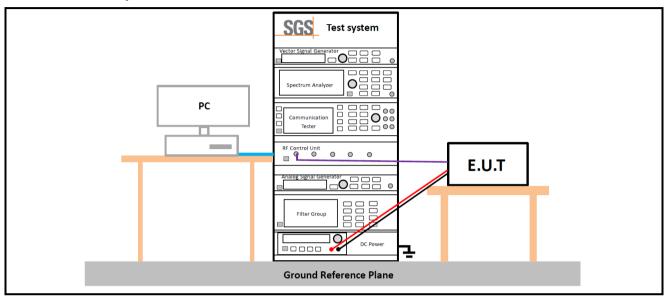


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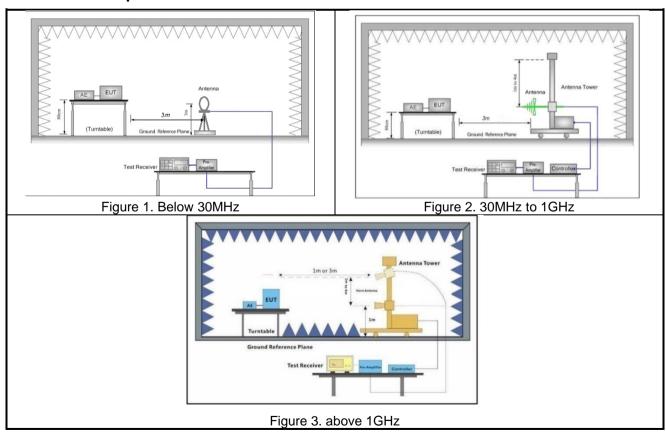
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### 4.9 Test Setups

### 4.9.1 Test Setup 1



### 4.9.2 Test Setup 2





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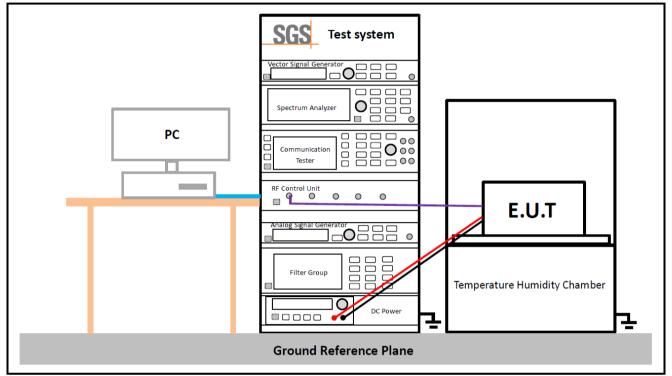


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### 4.9.3 Test Setup 3





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#### **4.10Test Conditions**

Test Case	)	Test Condi	tions
		Test Environm ent	Ambient Climate & Rated Voltage
	Average Power,	Test Setup	Test Setup 1
Transmit	Total	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Output		Test Mode	GSM/TM1;GSM/TM2;UMTS/TM1;LTE/TM1;LTE/TM2;LTE/TM3;
Power Data	Average Power,	Test Environm ent	Ambient Climate & Rated Voltage
	Spectral Density	Test Setup	Test Setup 1
(if required	`	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;LTE/TM3;
		Test Environm ent	Ambient Climate & Rated Voltage
Peak-to-A Ratio	verage	Test Setup	Test Setup 1
(if required	d)	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;LTE/TM3;
			Ambient Climate & Rated Voltage
Modulation Characteristics		Test Setup	Test Setup 1
		RF Channels (TX)	M (M= middle channel )
		Test Mode	GSM/TM1;GSM/TM2;UMTS/TM1;LTE/TM1;LTE/TM2;LTE/TM3;
Bandwid	Occupie	Test	Ambient Climate & Rated Voltage



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th	d Bandwid	Environm ent	
	th		Test Setup 1
			L, M, H (L= low channel, M= middle channel, H= high channel)
		Test Mode	GSM/TM1;GSM/TM2;UMTS/TM1;LTE/TM1;LTE/TM2;LTE/TM3;
	Emissio n	Test Environm ent	Ambient Climate & Rated Voltage
	Bandwid th	Test Setup	Test Setup 1
	(if required )		L, M, H (L= low channel, M= middle channel, H= high channel)
		Test Mode	GSM/TM1;GSM/TM2;UMTS/TM1;LTE/TM1;LTE/TM2;LTE/TM3;
			Ambient Climate & Rated Voltage
Band Edge Compliand		Test Setup	Test Setup 1
Оотрівні	<del>.</del>	RF Channels (TX)	L, H (L= low channel, H= high channel)
		Test Mode	GSM/TM1;GSM/TM2;UMTS/TM1;LTE/TM1;LTE/TM2;LTE/TM3;
		Test Environm ent	Ambient Climate & Rated Voltage
Spurious E at Antenna		Test Setup	Test Setup 1
Terminals		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 Environm ent	Ambient Climate & Rated Voltage
Opunous 1	Tadiation	Test Setup	Test Setup 2



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ī -		1 ago. 00 01 10
	Test Mode	GSM/TM1;GSM/TM2;UMTS/TM1;LTE/TM1;LTE/TM2;LTE/TM3; Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.
	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Frequency Stability	Test Environm ent	(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)	L, M, H (L= low channel, M= middle channel, H= high channel)
	Test Mode	GSM/TM1;GSM/TM2;UMTS/TM1;LTE/TM1;LTE/TM2;LTE/TM3;



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### 5 Main Test Instruments

RF Test Equipment						
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	MingGao	TUADAD	SUWI-01-01-07	2021/2/20	2022/2/19	
humidity meter	IviiiigGao	TH101B	30771-01-07	2022/2/16	2023/2/15	
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19	
DC Power Supply				2022/2/15	2023/2/14	
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	2022/12/23	
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/2/14	2023/2/13	
Temperature	ESPEC	SU-242	SUWI-01-13-01	2021/2/20	2022/2/19	
Chamber	ESPEC	30-242	30001-01-13-01	2022/2/15	2023/2/14	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03	



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RSE Test Equipment						
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	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19	
humidity meter	Willigead	1111012	56W1010100	2022/2/16	2023/2/15	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19	
rest receiver	KONDLASCHWAKZ	LSIC	30771-01-10-01	2022/2/19	2023/2/18	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13	
Amplifion	Tanasand	TA DOK 2C 40	SUWI-01-14-01	2021/2/20	2022/2/19	
Amplifier	Tonscend	TAP9K3G40	30771-01-14-01	2022/2/15	2023/2/14	
A mana lifting a	Tanasand	TA D04040050	CLIMI 04 44 02	2021/2/20	2022/2/19	
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/15	2023/2/14	
Amplifion	Tanasand	TAD10040040	CLIM/I 04 44 02	2021/2/20	2022/2/19	
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	2022/6/9	
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR	
Radio communication	Anritsu	MT8820C	SUWI-01-16-08	2021/2/20	2022/2/19	
analyzer	Ailliou	W1100200	CC VVI O1 10-00	2022/2/15	2023/2/14	



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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	±7.25 x 10 <sup>-8</sup>
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25 x 10 <sup>-8</sup>
		± 3.13dB (9kHz - 30MHz)
7	Radiated Emission	± 4.8dB (30MHz - 1GHz)
'	Radiated Effilssion	± 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 7
Appendix B.7	LTE Band 12
Appendix B.8	LTE Band 13
Appendix B.9	LTE Band 17
Appendix B.10	LTE Band 25
Appendix B.11	LTE Band 26(814-824)
Appendix B.12	LTE Band 26(824-849)
Appendix B.13	LTE Band 38
Appendix B.14	LTE Band 41
Appendix B.15	LTE Band 66

The End

