

Report No.: TCWA25020010501

TEST REPORT

Applicant: Fibocom Auto Inc.

EUT Description: 5G Module

> Model: AN758-NA

Brand: Fibocom

FCC ID: 2A8RBAN758NA

Standards: FCC CFR Title 47 Part 2

FCC CFR Title 47 Part 22

FCC CFR Title 47 Part 24

FCC CFR Title 47 Part 27

FCC CFR Title 47 Part 90

FCC CFR Title 47 Part 96

Date of Receipt: 2025/02/27

> Date of Test: 2025/02/27 to 2025/04/01

Date of Issue: 2025/04/01

TOWE, tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.

> **Huang Kun** Approved By:

Chen Chengfu **Reviewed By:**





Revision History

Rev.	Issue Date	Description	Revised by
01	2025/04/01	Original	Chen Chengfu



Summary of Test Results

FCC Part	Test Band	Test Item	Test Result
§2.1046	GSM850/WCDMA Band V/LTE Band	1000.110111	Tool Hooding
§22.913(a)(5)	5/26(824 ~ 849MHz)		
§27.50(b)(10)	LTE Band 13	Effective Radiated Power	Pass
§27.50(c)(10)	LTE Band 12/17/71		
§90.542(a)	LTE Band 14		
§2.1046			
§24.232(c)	GSM1900/WCDMA Band II/LTE Band 2/25		
§27.50(d)(4)	WCDMA Band IV/LTE Band 4/66/CA_66C	Effective Isotropic Radiated	Pass
§27.50(h)(2)	LTE Band 7/38/41	Power	
§96.41	LTE Band 48/CA_48C		
§2.1046		Transmitter Conducted Output	_
§90.635(b)	LTE Band 26(814 ~ 824MHz)	Power	Pass
§22.913(d)	GSM850/WCDMA Band V/LTE Band		
0 ()	5/26(824 ~ 849MHz)		
§24.232(d)	GSM1900/WCDMA Band II/LTE Band 2/25	Peak-Average Ratio	Pass
§96.41	LTE Band 48/CA_48C		
§27.50(d)(5)	Others Band		
§2.1049	All Band	Occupied Bandwidth	Pass
§2.1051			
§90.210(b)	LTE Band 14	Emission Mask	Pass
§90.691(a)	LTE Band 26(814 ~ 824MHz)		1 400
§2.1051			
§22.917(a)	GSM850/WCDMA Band V/LTE Band		
3==:0 : ((()	5/26(824 ~ 849MHz)		
§24.238(a)	GSM1900/WCDMA Band II/LTE Band 2/25		
§27.53(c)	LTE Band 13		
§27.53(g)	LTE Band 12/17/71	Band Edge	Pass
§27.53(h)	WCDMA Band IV/LTE Band 4/66/CA_66C		
§27.53(m)	LTE Band 7/38/41		
§90.543(e)(2)(3)	LTE Band 14		
§96.41	LTE Band 48/CA_48C		
§2.1051	GSM850/WCDMA Band V/LTE Band		
§22.917(a)	5/26(824 ~ 849MHz)		
§24.238(a)	GSM1900/WCDMA Band II/LTE Band 2/25		
§27.53(c)	LTE Band 13		
§27.53(g)	LTE Band 12/17/71	Spurious Emission at Antenna	Dana
§27.53(h)	WCDMA Band IV/LTE Band 4/66/CA_66C	Terminals	Pass
§27.53(m)	LTE Band 7/38/41		
§90.691	LTE Band 26(814 ~ 824MHz)		
§90.543(c)(f)	LTE Band 14		
§96.41	LTE Band 48/CA_48C		
§2.1053	GSM850/WCDMA Band V/LTE Band		
§22.917(a)	5/26(824 ~ 849MHz)	Field Strength of Spurious	Door
§24.238(a)	GSM1900/WCDMA Band II/LTE Band 2/25	Radiation	Pass
§27.53(c)&(f)	LTE Band 13		

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FCC Part	Test Band	Test Item	Test Result
§27.53(g)	LTE Band 12/17/71		
§27.53(h)	WCDMA Band IV/LTE Band 4/66/CA_66C		
§27.53(m)	LTE Band 7/38/41		
§90.691	LTE Band 26(814 ~ 824MHz)		
§90.543(c)(f)	LTE Band 14		
§96.41	LTE Band 48/CA_48C		
§2.1055	GSM850/WCDMA Band V/LTE Band		
§22.355	5/26(824 ~ 849MHz)		
§24.235	GSM1900/WCDMA Band II/LTE Band 2/25	Crosses of Ctobility	Door
§27.54	Others Band	Frequency Stability	Pass
§90.213	LTE Band 26(814 ~ 824MHz)/14		
§96.41	LTE Band 48/CA_48C		
§96.41	LTE Band 48/CA_48C	Adjacent Channel Leakage Ratio	Pass
Remark: Pass: Mo	eet the requirement.		•



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General Description

1.1 Lab Information

1.1.1 **Testing Location**

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 **Test Facility / Accreditations**

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing

laboratory.

CAB identifier: CN0152 Company Number: 31000

1.2 Client Information

1.2.1 **Applicant**

Applicant:	Fibocom Auto Inc.
Address:	13th Floor,Building A,Building 6,Shenzhen International Innovation Valley,Xili Community,Xili Street,Nanshan District,Shenzhen

1.2.2 **Manufacturer**

Manufacturer:	Fibocom Auto Inc.
Address:	13th Floor,Building A,Building 6,Shenzhen International Innovation Valley,Xili Community,Xili Street,Nanshan District,Shenzhen

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd.

Email: info@towewireless.com TOWE-QP-15-F05 Rev.1.1

Tel.: +86-755-27212361



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1.3 Product Information

	FULL Description: EC Module						
EUT Description: Model:	5G Module AN758-NA						
Brand:	Fibocom						
Hardware Version:	V1.0						
Software Version:	/						
Power Class:	Class 3: All RF Conducted 862			240004700050			
IMEI:	RF Conducte	a		818061792653			
IIVIE1.	RSE			818061792893 818061792455			
Device Capabilities:							
	GSM:	\boxtimes] GSI	M/GPRS: GMSK, ⊠ EGPRS:	8PSK		
Modulation Type:	WCDMA:		_	C, $oxtimes$ HSUPA, $oxtimes$ HSDPA, $oxtimes$ GK, $oxtimes$ QPSK, $oxtimes$ 16QAM, $oxtimes$ (
	LTE:	\boxtimes] QP	SK, ⊠ 16QAM, ⊠ 64QAM, ⊠	256QAM		
	Band			TX Frequency	RX Frequency		
	GSM 850			824 ~ 849 MHz	869 ~ 894 MHz		
	PCS 1900			1850 ~ 1910 MHz	1930 ~ 1990 MHz		
	WCDMA Band II			1850 ~ 1910 MHz	1930 ~ 1990 MHz		
	WCDMA Band IV		/	1710 ~ 1755 MHz	2110 ~ 2155 MHz		
	WCDMA Band V		,	824 ~ 849 MHz	869 ~ 894 MHz		
	LTE Band 2			1850 ~ 1910 MHz	1930 ~ 1990 MHz		
	LTE Band 4			1710 ~ 1755 MHz	2110 ~ 2155 MHz		
	LTE Band 5			824 ~ 849 MHz	869 ~ 894 MHz		
	LTE Band 7			2500 ~ 2570 MHz	2620 ~ 2690 MHz		
	LTE Band 12			699 ~ 716 MHz	729 ~ 746 MHz		
	LTE Band 13			777 ~ 787 MHz	746 ~ 756 MHz		
Operation Frequency Range:	LTE Band 14			788 ~ 798 MHz	758 ~ 768 MHz		
	LTE Band 17			704 ~ 716 MHz	734 ~ 746 MHz		
	LTE Band 25			1850 ~ 1915MHz	1930 ~ 1995 MHz		
	LTE Band 26 (814 ~ 824 M)	814 ~ 824MHz	859 ~ 869 MHz		
	LTE Band 26 (824 ~ 849 M			824 ~ 849 MHz	869 ~ 894 MHz		
	LTE Band 38		•	2570 ~ 2620 MHz	2570 ~ 2620 MHz		
	LTE Band 41			2496 ~ 2690MHz	2496 ~ 2690MHz		
	LTE Band 48			3550 ~ 3700 MHz	3550 ~ 3700 MHz		
	LTE Band 66			1710 ~ 1780 MHz	2110 ~ 2200 MHz		
	LTE Band 71			663 ~ 698 MHz	617 ~ 652 MHz		
	LTE CA: LTE UL CA_48C; LTE UL CA_66C;						
Antenna Type:							
	Band		3.	Ant (dBi)			
Antenna Gain:	GSM 850			1.32			
				*			





PCS 1900	1.93
WCDMA Band II	1.93
WCDMA Band IV	2.86
WCDMA Band V	1.32
LTE Band 2	1.93
LTE Band 4	2.86
LTE Band 5	1.32
LTE Band 7	1.07
LTE Band 12	1.58
LTE Band 13	1.94
LTE Band 14	2.19
LTE Band 17	1.58
LTE Band 25	1.93
LTE Band 26	1.61
(814 ~ 824 MHz)	1.01
LTE Band 26	1.32
(824 ~ 849 MHz)	1.02
LTE Band 38	0.93
LTE Band 41	1.52
LTE Band 48	1.99
LTE Band 66	3.53
LTE Band 71	0

Remark: The above EUT's information was declared by applicant, please refer to the specifications or user manual for more detailed description.



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Test Configuration

2.1 Test Channel

Dond		TX Frequency		RX Frequency			
Band	Range	Channel Frequency		Range	Channel	Frequency	
	Low	128	824.2 MHz	Low	128	869.2 MHz	
GSM 850	Middle	190	836.6 MHz	Middle	190	881.6 MHz	
	High	251	848.8 MHz	High	251	893.8 MHz	
	Low	512	1850.2MHz	Low	512	1930.2 MHz	
PCS 1900	Middle	661	1880.0 MHz	Middle	661	1960.0 MHz	
	High	810	1909.8 MHz	High	810	1989.8 MHz	
WCDMA	Low	9262	1852.4 MHz	Low	9662	1932.4 MHz	
Band II	Middle	9400	1880.0 MHz	Middle	9800	1960.0 MHz	
Danu II	High	9538	1907.6 MHz	High	9938	1987.6 MHz	
WCDMA	Low	1312	1712.4MHz	Low	1537	2112.4 MHz	
Band IV	Middle	1413	1732.6 MHz	Middle	1638	2132.6 MHz	
Danu IV	High	1513	1752.6 MHz	High	1738	2152.6 MHz	
WCDMA	Low	4132	826.4 MHz	Low	4357	871.4 MHz	
Band V	Middle	4182	836.4 MHz	Middle	4407	881.4 MHz	
Dailu V	High	4233	846.6 MHz	High	4458	891.6 MHz	

Part	Band	Bandwidth		TX Frequen	су	RX Frequency			
1.4MHz	Danu	Dariuwiutii	Range	Channel	Frequency	Range	Channel	Frequency	
High 19193 1909.3 MHz High 1193 1989.3 MHz Low 18615 1851.5 MHz Low 615 1931.5 MHz Middle 18900 1880 MHz Middle 900 1960 MHz High 19185 1908.5 MHz Low 625 1932.5 MHz Low 18625 1852.5 MHz Low 625 1932.5 MHz Middle 18900 1880 MHz Middle 900 1960 MHz High 19175 1907.5 MHz High 1175 1987.5 MHz Low 18650 1855 MHz Low 650 1935 MHz Middle 18900 1880 MHz Middle 900 1960 MHz High 19150 1905 MHz High 1150 1985 MHz Middle 18900 1880 MHz Middle 900 1960 MHz High 19150 1905 MHz High 1150 1985 MHz Middle 18900 1880 MHz Middle 900 1960 MHz High 19150 1905 MHz High 1150 1985 MHz Low 18675 1857.5 MHz Low 675 1937.5 MHz Middle 18900 1880 MHz Middle 900 1960 MHz High 19125 1902.5 MHz High 1125 1982.5 MHz Low 18700 1860 MHz Low 700 1940 MHz Middle 18900 1880 MHz Middle 900 1960 MHz High 19100 1900 MHz High 1100 1980 MHz High 19100 1900 MHz High 1100 1980 MHz High 20333 1754.3 MHz Low 1957 2110.7 MHz Middle 20175 1732.5 MHz High 2393 2154.3 MHz High 20335 1753.5 MHz High 2385 2153.5 MHz Low 19965 1711.5 MHz Low 1965 2111.5 MHz Middle 20175 1732.5 MHz High 2393 2154.3 MHz High 20335 1753.5 MHz High 2385 2153.5 MHz High 20337 1752.5 MHz Middle 2175 2132.5 MHz High 20350 1750 MHz High 2375 2132.5 MHz High 20350 1750 MHz High 2350 2150 MHz High 20350 1750 MHz High 2350 2147.5 MHz High 20350 1750 MHz High 2350 2150 MHz High 20350 1750 MHz High 2350 2147.5 MHz High 20350 1720 MHz Low 20050 1720 MHz			Low	18607	1850.7 MHz	Low	607	1930.7 MHz	
Low		1.4MHz	Middle	18900	1880 MHz	Middle	900	1960 MHz	
Middle			High	19193	1909.3 MHz	High	1193	1989.3 MHz	
LTE Band 2 High 19185 1908.5 MHz			Low	18615	1851.5 MHz	Low	615	1931.5 MHz	
LTE Band 2 SMHz		3MHz	Middle	18900	1880 MHz	Middle	900	1960 MHz	
LTE Band 2 SMHz			High	19185	1908.5 MHz	High	1185	1988.5 MHz	
LTE Band 2 High			Low	18625	1852.5 MHz	Low	625	1932.5 MHz	
Low		5MHz	Middle	18900	1880 MHz	Middle	900	1960 MHz	
10MHz	LTE Bond 2		High	19175	1907.5 MHz	High	1175	1987.5 MHz	
High	LIE Band 2		Low	18650	1855 MHz	Low	650	1935 MHz	
Low		10MHz	Middle	18900	1880 MHz	Middle	900	1960 MHz	
15MHz			High	19150	1905 MHz	High	1150	1985 MHz	
High			Low	18675	1857.5 MHz	Low	675	1937.5 MHz	
Low		15MHz	Middle	18900	1880 MHz	Middle	900	1960 MHz	
Middle			High	19125	1902.5 MHz	High	1125	1982.5 MHz	
High 19100 1900 MHz High 1100 1980 MHz Low 19957 1710.7 MHz Low 1957 2110.7 MHz Middle 20175 1732.5 MHz Middle 2175 2132.5MHz High 20393 1754.3 MHz High 2393 2154.3 MHz Low 19965 1711.5 MHz Low 1965 2111.5 MHz Middle 20175 1732.5 MHz Middle 2175 2132.5MHz Middle 20175 1732.5 MHz Middle 2175 2132.5MHz High 20385 1753.5 MHz High 2385 2153.5 MHz Low 19975 1712.5 MHz Low 1975 2112.5 MHz Low 19975 1712.5 MHz Low 1975 2112.5 MHz Middle 20175 1732.5 MHz Middle 2175 2132.5MHz High 20375 1752.5 MHz High 2375 2152.5 MHz Low 20000 1715 MHz Low 2115 2115 MHz Middle 20175 1732.5 MHz Middle 2175 2132.5MHz High 20350 1750 MHz High 2350 2150 MHz Low 20025 1717.5 MHz Low 2025 2117.5 MHz Middle 20175 1732.5 MHz Middle 2175 2132.5MHz High 20350 1750 MHz High 2350 2150 MHz Low 20025 1717.5 MHz Low 2025 2117.5 MHz High 20325 1747.5 MHz High 2325 2147.5 MHz High 20325 1747.5 MHz High 2325 2147.5 MHz		20MHz	Low	18700	1860 MHz	Low	700	1940 MHz	
1.4MHz			Middle	18900	1880 MHz	Middle	900	1960 MHz	
1.4MHz			High	19100	1900 MHz	High	1100	1980 MHz	
High 20393 1754.3 MHz High 2393 2154.3 MHz Low 19965 1711.5 MHz Low 1965 2111.5 MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20385 1753.5 MHz High 2385 2153.5 MHz Low 19975 1712.5 MHz Low 1975 2112.5 MHz 5MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20375 1752.5 MHz High 2375 2152.5 MHz Low 20000 1715 MHz Low 2115 2115 MHz Low 20000 1715 MHz Low 2115 2115 MHz 10MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20350 1750 MHz High 2350 2150 MHz High 20350 1750 MHz High 2350 2150 MHz 15MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20350 1717.5 MHz Low 2025 2117.5 MHz High 20325 1747.5 MHz High 2325 2147.5 MHz High 20325 1747.5 MHz High 2325 2147.5 MHz Low 20050 1720 MHz Low 2050 2120 MHz			Low	19957	1710.7 MHz	Low	1957	2110.7 MHz	
Low 19965 1711.5 MHz Low 1965 2111.5 MHz 3MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20385 1753.5 MHz High 2385 2153.5 MHz Low 19975 1712.5 MHz Low 1975 2112.5 MHz 5MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20375 1752.5 MHz High 2375 2152.5 MHz Low 20000 1715 MHz Low 2115 2115 MHz 10MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20350 1750 MHz High 2350 2150 MHz High 20350 1717.5 MHz Low 2025 2117.5 MHz 15MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz 15MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20325 1747.5 MHz High 2325 2147.5 MHz High 20325 1747.5 MHz High 2325 2147.5 MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 1720 MHz Low 2050 2120 MHz 15MHz Low 20050 2120 MHz 20050 2120 MHz 15MHz Low 20050 2120 MHz 20050		1.4MHz	Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz	
Middle			High	20393	1754.3 MHz	High	2393	2154.3 MHz	
High 20385 1753.5 MHz High 2385 2153.5 MHz Low 19975 1712.5 MHz Low 1975 2112.5 MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20375 1752.5 MHz High 2375 2152.5 MHz Low 20000 1715 MHz Low 2115 2115 MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20350 1750 MHz High 2350 2150 MHz Low 20025 1717.5 MHz Low 2025 2117.5 MHz 15MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz Middle 20175 1732.5 MHz High 2350 2150 MHz Low 20025 1717.5 MHz Low 2025 2117.5 MHz High 20325 1747.5 MHz High 2325 2147.5 MHz Low 20050 1720 MHz Low 2050 2120 MHz		3MHz	Low	19965	1711.5 MHz	Low	1965	2111.5 MHz	
LTE Band 4 Low 19975 1712.5 MHz Low 1975 2112.5 MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20375 1752.5 MHz High 2375 2152.5 MHz Low 20000 1715 MHz Low 2115 2115 MHz 10MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20350 1750 MHz High 2350 2150 MHz Low 20025 1717.5 MHz Low 2025 2117.5 MHz 15MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20325 1747.5 MHz High 2325 2147.5 MHz 20MHz Low 20050 1720 MHz Low 2050 2120 MHz Low 20050 20050 20050 20050 20050 20050 20050 20050 20050 Low 20050			Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz	
LTE Band 4			High	20385	1753.5 MHz	High	2385	2153.5 MHz	
LTE Band 4 High 20375 1752.5 MHz High 2375 2152.5 MHz Low 20000 1715 MHz Low 2115 2115 MHz 10MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20350 1750 MHz High 2350 2150 MHz Low 20025 1717.5 MHz Low 2025 2117.5 MHz 15MHz Middle 20175 1732.5 MHz Middle 2175 2132.5 MHz High 20325 1747.5 MHz High 2325 2147.5 MHz 20MHz Low 20050 1720 MHz Low 2050 2120 MHz			Low	19975	1712.5 MHz	Low	1975	2112.5 MHz	
Low 20000 1715 MHz Low 2115 2115 MHz 10MHz Middle 20175 1732.5 MHz Middle 2175 2132.5MHz High 20350 1750 MHz High 2350 2150 MHz Low 20025 1717.5 MHz Low 2025 2117.5 MHz 15MHz Middle 20175 1732.5 MHz Middle 2175 2132.5MHz High 20325 1747.5 MHz High 2325 2147.5 MHz 20MHz Low 20050 1720 MHz Low 2050 2120 MHz		5MHz	Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz	
10MHz Middle 20175 1732.5 MHz Middle 2175 2132.5MHz High 20350 1750 MHz High 2350 2150 MHz Low 20025 1717.5 MHz Low 2025 2117.5 MHz 15MHz Middle 20175 1732.5 MHz Middle 2175 2132.5MHz High 20325 1747.5 MHz High 2325 2147.5 MHz 20MHz Low 20050 1720 MHz Low 2050 2120 MHz	LTE Band 4		High	20375	1752.5 MHz	High	2375	2152.5 MHz	
High 20350 1750 MHz High 2350 2150 MHz			Low	20000	1715 MHz	Low	2115	2115 MHz	
Low 20025 1717.5 MHz Low 2025 2117.5 MHz		10MHz	Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz	
Middle 20175 1732.5 MHz Middle 2175 2132.5MHz High 20325 1747.5 MHz High 2325 2147.5 MHz Low 20050 1720 MHz Low 2050 2120 MHz			High	20350	1750 MHz	High	2350	2150 MHz	
High 20325 1747.5 MHz High 2325 2147.5 MHz Low 20050 1720 MHz Low 2050 2120 MHz			Low	20025	1717.5 MHz	Low	2025	2117.5 MHz	
20MHz Low 20050 1720 MHz Low 2050 2120 MHz		15MHz	Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz	
			High	20325	1747.5 MHz	High	2325	2147.5 MHz	
Middle 20175 1732.5 MHz Middle 2175 2132.5MHz		201411-7	Low	20050	1720 MHz	Low	2050	2120 MHz	
		ZUIVITZ	Middle	20175	1732.5 MHz	Middle	2175	2132.5MHz	

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			TV C		report	NO.: ICVVA	
Band	Bandwidth	Danas	TX Frequen		Danas	RX Frequer	1
		Range	Channel	Frequency	Range	Channel	Frequency
		High Low	20300 20407	1745 MHz 824.7 MHz	High Low	2300 2407	2145 MHz 869.7 MHz
	4 4 1 1 1 -	Middle	20525		Middle	2525	
	1.4MHz	High	20525	836.5 MHz 848.3 MHz	High	2643	881.5 MHz 893.3 MHz
		Low	20043	825.5 MHz	Low	2415	870.5 MHz
	3MHz	Middle	20525	836.5 MHz	Middle	2525	881.5 MHz
	SIVII IZ	High	20635	847.5 MHz	High	2635	892.5 MHz
LTE Band 5		Low	20425	826.5 MHz	Low	2425	871.5 MHz
	5MHz	Middle	20525	836.5 MHz	Middle	2525	881.5 MHz
	OWN 12	High	20625	846.5 MHz	High	2625	891.5 MHz
		Low	20450	829 MHz	Low	2450	874 MHz
	10MHz	Middle	20525	836.5 MHz	Middle	2525	881.5 MHz
		High	20600	844 MHz	High	2600	889 MHz
		Low	20775	2502.5 MHz	Low	2775	2622.5 MHz
	5MHz	Middle	21100	2535 MHz	Middle	3100	2655 MHz
		High	21425	2567.5 MHz	High	3425	2687.5 MHz
		Low	20800	2505 MHz	Low	2800	2625 MHz
	10MHz	Middle	21100	2535 MHz	Middle	3100	2655 MHz
LTC Dand 7		High	21400	2565 MHz	High	3400	2685 MHz
LTE Band 7		Low	20825	2507.5 MHz	Low	2825	2627.5 MHz
	15MHz	Middle	21100	2535 MHz	Middle	3100	2655 MHz
		High	21375	2562.5 MHz	High	3375	2682.5 MHz
		Low	20850	2510 MHz	Low	2850	2630 MHz
	20MHz	Middle	21100	2535 MHz	Middle	3100	2655 MHz
		High	21350	2560 MHz	High	3350	2680 MHz
		Low	23017	699.7 MHz	Low	5017	729.7 MHz
	1.4MHz	Middle	23095	707.5 MHz	Middle	5095	737.5 MHz
		High	23173	715.3 MHz	High	5173	745.3 MHz
		Low	23025	700.5 MHz	Low	5025	730.5 MHz
	3MHz	Middle	23095	707.5 MHz	Middle	5095	737.5 MHz
LTE Band 12		High	23165	714.5 MHz	High	5165	744.5 MHz
	5MHz	Low	23035	701.5 MHz	Low	5035	731.5 MHz
		Middle	23095	707.5 MHz	Middle	5095	737.5 MHz
		High	23155	713.5 MHz	High	5155	743.5 MHz
	10MH=	Low	23060	704 MHz	Low	5060	734 MHz
	10MHz	Middle High	23095 23130	707.5 MHz 711 MHz	Middle High	5095 5130	737.5 MHz 741 MHz
		Low	23205	779.5 MHz	Low	5205	741 MHz
	5MHz	Middle	23230	782 MHz	Middle	5230	751 MHz
	SIVII IZ	High	23255	784.5 MHz	High	5255	753.5 MHz
LTE Band 13		Low	23230	782 MHz	Low	5230	751 MHz
	10MHz	Middle	23230	782 MHz	Middle	5230	751 MHz
		High	23230	782 MHz	High	5230	751 MHz
		Low	23305	790.5 MHz	Low	5305	760.5 MHz
	5MHz	Middle	23330	793 MHz	Middle	5330	763 MHz
		High	23355	795.5 MHz	High	5355	765.5 MHz
LTE band 14		Low	23330	793 MHz	Low	5330	763 MHz
	10MHz	Middle	23330	793 MHz	Middle	5330	763 MHz
		High	23330	793 MHz	High	5330	763 MHz
		Low	23755	706.5 MHz	Low	5755	736.5 MHz
	5MHz	Middle	23790	710 MHz	Middle	5790	740 MHz
LTE band 17		High	23825	713.5 MHz	High	5825	743.5 MHz
		Low	23780	709 MHz	Low	5780	739 MHz
	10MHz	Middle	23790	710 MHz	Middle	5790	740 MHz
		High	23800	711 MHz	High	5800	741 MHz
LTE Band 25	1.4MHz	Low	26047	1850.7 MHz	Low	8047	1930.7 MHz
LTL Danu 25	1.7101114	Middle	26365	1882.5 MHz	Middle	8365	1962.5 MHz

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					Report	No.: TCWA	
Band	Bandwidth		TX Frequen			RX Frequen	
24.13		Range	Channel	Frequency	Range	Channel	Frequency
		High	26683	1914.3 MHz	High	8683	1994.3 MHz
		Low	26055	1851.5 MHz	Low	8055	1931.5 MHz
	3MHz	Middle	26365	1882.5 MHz	Middle	8365	1962.5 MHz
		High	26675	1913.5 MHz	High	8675	1993.5 MHz
	-	Low	26065	1852.5 MHz	Low	8065	1932.5 MHz
	5MHz	Middle	26365	1882.5 MHz	Middle	8365	1962.5 MHz
		High	26665	1912.5 MHz	High	8665	1992.5 MHz
	_	Low	26090	1855 MHz	Low	8090	1935 MHz
	10MHz	Middle	26365	1882.5 MHz	Middle	8365	1962.5 MHz
		High	26640	1910 MHz	High	8640	1990 MHz
	_	Low	26115	1857.5 MHz	Low	8115	1937.5 MHz
	15MHz	Middle	26365	1882.5 MH	Middle	8365	1962.5 MHz
		High	26615	1907.5 MHz	High	8615	1987.5 MHz
		Low	26140	1860 MHz	Low	8140	1940 MHz
	20MHz	Middle	26365	1882.5 MHz	Middle	8365	1962.5 MHz
		High	26590	1905 MHz	High	8590	1985 MHz
		Low	26697	814.7 MHz	Low	8697	859.7 MHz
	1.4MHz	Middle	26740	819 MHz	Middle	8740	864MHz
	-	High	26783	823.3 MHz	High	8783	868.3 MHz
		Low	26705	815.5 MHz	Low	8705	860.5 MHz
	3MHz	Middle	26740	819 MHz	Middle	8740	864MHz
LTE Band 26	-	High	26775	822.5 MHz	High	8775	867.5 MHz
(814-824)		Low	26715	816.5 MHz	Low	8715	861.5 MHz
,	5MHz	Middle	26740	819 MHz	Middle	8740	864MHz
	-	High	26765	821.5 MHz	High	8765	866.5 MHz
	10MHz	Low	26740	819 MHz	Low	8740	864MHz
		Middle	26740	819 MHz	Middle	8740	864MHz
	-	High	26740	819 MHz	High	8740	864MHz
	1.4MHz	Low	26797	824.7 MHz	Low	8797	869.7 MHz
		Middle	26915	836.5 MHz	Middle	8915	881.5 MHz
		High	27033	848.3 MHz	High	9033	893.3 MHz
		Low	26805	825.5 MHz	Low	8805	870.5 MHz
	3MHz	Middle	26915	836.5 MHz	Middle	8915	881.5 MHz
		High	27025	847.5 MHz	High	9025	892.5 MHz
		Low	26815	826.5 MHz	Low	8815	871.5 MHz
LTE Band 26	5MHz	Middle	26915	836.5 MHz	Middle	8915	881.5 MHz
(824-849)	-	High	27015	846.5 MHz	High	9015	891.5 MHz
		Low	26840	829 MHz	Low	8840	844 MHz
	10MHz	Middle	26915	836.5 MHz	Middle	8915	881.5 MHz
		High	26990	844 MHz	High	8990	889 MHz
		Low	26865	831.5 MHz	Low	8865	876.5 MHz
	15MHz	Middle	26915	836.5 MHz	Middle	8915	881.5 MHz
		High	26965	841.5 MHz	High	8965	886.5 MHz
		Low	37775	2572.5 MHz	Low	37775	2572.5 MHz
	5MHz	Middle	38000	2595 MHz	Middle	38000	2595 MHz
		High	38225	2617.5 MHz	High	38225	2617.5 MHz
		Low	37800	2575 MHz	Low	37800	2575 MHz
	10MHz	Middle	38000	2595 MHz	Middle	38000	2595 MHz
l		High	38200	2615 MHz	High	38200	2615 MHz
LTE Band 38		Low	37825	2577.5 MHz	Low	37825	2577.5 MHz
	15MHz	Middle	38000	2595 MHz	Middle	38000	2595 MHz
	. 5.71.12	High	38175	2612.5 MHz	High	38175	2612.5 MHz
		Low	37850	2580 MHz	Low	37850	2580 MHz
	20MHz	Middle	38000	2595 MHz	Middle	38000	2595 MHz
	ZOIVII IZ	High	38150	2610 MHz	High	38150	2610 MHz
LTE Band 41		Low	39675	2498.5 MHz	Low	39675	2498.5 MHz
(2496-2690)	5MHz	Middle	40620	2593 MHz	Middle	40620	2593 MHz
(4730-2030)		wiidale	40020	∠JJJ IVI∏Z	iviluale	40020	ZUUU IVIITZ



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			TV Fragues	01/	RX Frequency			
Band	Bandwidth	Dongo	TX Frequen		Dongo	1		
		Range	Channel	Frequency	Range	Channel	Frequency	
		High	41565	2687.5 MHz	High	41565	2687.5 MHz	
	10MHz	Low	39700	2501 MHz	Low	39700	2501 MHz	
		Middle	40620	2593 MHz	Middle	40620	2593 MHz	
		High	41540	2685 MHz	High	41540	2685 MHz	
		Low	39725	2503.5 MHz	Low	39725	2503.5 MHz	
	15MHz	Middle	40620	2593 MHz	Middle	40620	2593 MHz	
		High	41515	2682.5 MHz	High	41515	2682.5 MHz	
		Low	39750	2506 MHz	Low	39750	2506 MHz	
	20MHz	Middle	40620	2593 MHz	Middle	40620	2593 MHz	
		High	41490	2680 MHz	High	41490	2680 MHz	
		Low	131979	1710.7 MHz	Low	66443	2110.7 MHz	
	1.4MHz	Middle	132322	1745 MHz	Middle	66786	2145MHz	
		High	132665	1779.3 MHz	High	67329	2199.3 MHz	
		Low	131987	1711.5 MHz	Low	66451	2111.5 MHz	
	3MHz	Middle	132322	1745 MHz	Middle	66786	2145MHz	
		High	132657	1778.5MHz	High	67321	2198.5MHz	
	5MHz	Low	131997	1712.5 MHz	Low	66461	2112.5 MHz	
		Middle	132322	1745 MHz	Middle	66786	2145MHz	
LTE Band 66		High	132647	1777.5 MHz	High	67311	2197.5 MHz	
LIE Dallu 00	10MHz	Low	132022	1715 MHz	Low	66486	2115 MHz	
		Middle	132322	1745 MHz	Middle	66786	2145MHz	
		High	132622	1775 MHz	High	67286	2195 MHz	
	15MHz	Low	132047	1717.5 MHz	Low	66511	2117.5 MHz	
		Middle	132322	1745 MHz	Middle	66786	2145MHz	
		High	132597	1772.5 MHz	High	67261	2192.5 MHz	
		Low	132072	1720 MHz	Low	66536	2120 MHz	
	20MHz	Middle	132322	1745 MHz	Middle	66786	2145MHz	
		High	132572	1770 MHz	High	67236	2190 MHz	
		Low	133147	665.5 MHz	Low	68611	619.5 MHz	
	5MHz	Middle	133297	680.5 MHz	Middle	68761	634.5 MHz	
		High	133447	695.5 MHz	High	68911	649.5 MHz	
		Low	133172	668 MHz	Low	68636	622 MHz	
	10MHz	Middle	133297	680.5 MHz	Middle	68761	634.5 MHz	
		High	133422	693 MHz	High	68886	647 MHz	
LTE Band 71		Low	133197	670.5 MHz	Low	68661	624.5 MHz	
	15MHz	Middle	133297	680.5 MHz	Middle	68761	634.5 MHz	
		High	133397	690.5 MHz	High	68861	644.5 MHz	
		Low	133222	673 MHz	Low	68686	627 MHz	
	20MHz	Middle	133297	680.5 MHz	Middle	68761	634.5 MHz	
	20	High	133372	688 MHz	High	68836	642 MHz	

Test Mode	Bandwidth	TX / RX	RF Channel			
rest Mode	Dariuwiuiri	IA/KA	Low (L)	Middle (M)	High (H)	
	ENALL-	TV/DV	Channel 55265	Channel55990	Channel 56715	
	5MHz	TX/RX	3552.5 MHz	3625.0 MHz	3697.5 MHz	
	10MHz	TV/DV	Channel 55290	Channel55990	Channel 56690	
		TX/RX	3555.0 MHz	3625.0 MHz	3695.0 MHz	
LTE Band 48	45141-	T)//D)/	Channel 55315	Channel55990	Channel 56665	
	15MHz	TX/RX	3557.5 MHz	3625.0 MHz	3692.5 MHz	
			Channel 55340	Channel55990	Channel 56640	
	20MHz	TX/RX	3560.0 MHz	3625.0 MHz	3690.0 MHz	



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LTE CA_48C(3550-3700):

Dongo	CC-Combo /		CC1 Note1		CC2 Note1		
Range	NRB_agg [RB]	BW [RB]	NUL/DL	fUL/DL [MHz]	BW [RB]	NUL/DL	fUL/DL [MHz]
	25+100	25	55273	3553.3	100	55390	3565
	25+100	100	55340	3560	25	55457	3571.7
	50+100	50	55295	3555.5	100	55439	3569.9
Low	50+100	100	55340	3560	50	55484	3574.4
	75 : 100	75	55318	3557.8	100	55489	3574.9
	75+100	100	55340	3560	75	55511	3577.1
	100+100	100	55340	3560	100	55538	3579.8
	25+100	25	55898	3615.8	100	56015	3627.5
		100	55965	3622.5	25	56082	3634.2
	50+100	50	55896	3615.6	100	56040	3630
Mid		100	55941	3620.1	50	56085	3634.5
	75 : 400	75	55893	3615.3	100	56064	3632.4
	75+100	100	55916	3617.6	75	56087	3634.7
	100+100	100	55891	3615.1	100	56089	3634.9
	25.400	25	56523	3678.3	100	56640	3690
	25+100	100	56590	3685	25	56707	3696.7
	50.400	50	56496	3675.6	100	56640	3690
High	50+100	100	56541	3680.1	50	56685	3694.5
	75.400	75	56469	3672.9	100	56640	3690
	75+100	100	56491	3675.1	75	56662	3692.2
Ī	100+100	100	56442	3670.2	100	56640	3690



LTE CA_66C:

Range	CC-Combo / NRB_agg [RB]	NRB_agg				CC2 Note1					
		BW [RB]	Nul	f∪∟ [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	NuL	f _{UL} [MHz]	N _{DL}	f _{DL}
	50+75	50	132025	1715.3	66489	2115.3	75	132145	1727.3	66609	2127.
		75	132047	1717.5	66511	2117.5	50	132167	1729.5	66631	2129.
	50+100	50	132027	1715.5	66491	2115.5	100	132171	1729.9	66635	2129.
		100	132072	1720	66536	2120	50	132216	1734.4	66680	2134.
1	75+75	75	132047	1717.5	66511	2117.5	75	132197	1732.5	66661	2132
Low	75+100	75	132050	1717.8	66514	2117.8	100	132221	1734.9	66685	2134
		100	132072	1720	66536	2120	75	132243	1737.1	66707	2137
	100+25	100	132072	1720	66536	2120	25	132189	1731.7	66653	2131.
		25	132005	1713.3	66469	2113.3	100	132122	1725.0	66586	2125.
	100+100	100	132072	1720	66536	2120	100	132270	1739.8	66734	2139
	50+75	50	132351	1747.9	66815	2147.9	75	132471	1759.9	66935	2159
		75	132373	1750.1	66837	2150.1	50	132493	1762.1	66957	2162
	50+100	50	132328	1745.6	66792	2145.6	100	132472	1760	66936	2160
	30.100	100	132373	1750.1	66837	2150.1	50	132517	1764.5	66981	2164
	75+75	75	132347	1747.5	66811	2147.5	75	132497	1762.5	66961	2162
Mid	75+100	75	132325	1745.3	66789	2147.3	100	132496	1762.4	66960	2162
75+100	75+100	100	132323	1745.5	66812	2147.6	75	132519	1764.7	66983	2164
	100+25	100	132348	1752.5	66861	2152.5	25	132519	1764.7	66978	2164
	100 20	25	132330	1745.8	66794	2145.8	100	132447	1757.5	66911	2157
	100+100	100	132323	1745.1	66787	2145.1	100	132521	1764.9	66985	2164
	50+75	50	132622	1775	67086	2175	75	NA	NA	67206	218
		75	132597	1772.5	67061	2172.5	50	NA	NA	67181	2184
	50+100	50	132622	1775	67086	2175	100	NA	NA	67230	2189
		100	132572	1770	67036	2170	50	NA	NA	67180	2184
Liimb2	75+75	75	132597	1772.5	67061	2172.5	75	NA	NA	67211	2187
High ²	75+100	75	132597	1772.5	67061	2172.5	100	NA	NA	67232	2189
	75-100	100	132572	1770	67036	2170	75	NA.	NA	67207	2187
	100+25	100	132572	1770	67036	2170	25	NA	NA	67153	2181
		25	132647	1777.5	67111	2177.5	100	NA	NA	67228	2189
	100+100	100	132572	1770	67036	2170	100	NA	NA	67234	2189
	50+75	50	132477	1760.5	66941	2160.5	75	132597	1772.5	67061	2172
		75	132499	1762.7	66963	2162.7	50	132619	1774.7	67083	2174
	50+100	50	132428	1755.6	66892	2155.6	100	132572	1770	67036	2170
High ³		100	132473	1760.1	66937	2160.1	50	132617	1774.5	67081	2174
	75+75	75	132447	1757.5	66911	2157.5	75	132597	1772.5	67061	2172
ŀ	75+100	75	132401	1752.9	66885	2152.9	100	132572	1770	67036	2170
		100	132423	1755.1	66887	2155.1	75	132594	1772.2	67058	2172
	100+25	100	132522	1765	66986	2165	25	132639	1776.7	67103	2176.
	100+25	25	132322	1758.3	66919	2158.3	100	132572	1770.7	67036	2170.
	100+100	100	132374	1750.2	66838	2150.2	100	132572	1770	67036	2170

Note 1: Carriers in increasing frequency order.

Note 2: Applicable for intra-band contiguous CA without UL CA.





2.2 Test Mode

Test Mode	Description
TM 1	EUT communication with simulated station in GMSK mode
TM 2	EUT communication with simulated station in 8PSK mode
TM 3	EUT communication with simulated station in WCDMA/RMC mode
TM 4	EUT communication with simulated station in WCDMA/HSPA+ mode
TM 5	EUT communication with simulated station in LTE/QPSK mode
TM 6	EUT communication with simulated station in LTE/16QAM mode
TM 7	EUT communication with simulated station in LTE/64QAM mode
TM 8	EUT communication with simulated station in LTE/256QAM mode

2.3 Support Unit used in test

Description	Manufacturer	Model	Serial Number			
Development Board *	Favalon	ADP-AN758-CN-00_V1.5	/			
Remark: *the information is provided by applicant.						

2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C		
Relative Humidity	45 ~ 56 % RH Ambient		
Voltage:	Nominal: 3.8 Vdc, Extreme: Low 3.4 Vdc, High 4.2 Vdc		

2.5 Test RF Cable

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

2.6 Modifications

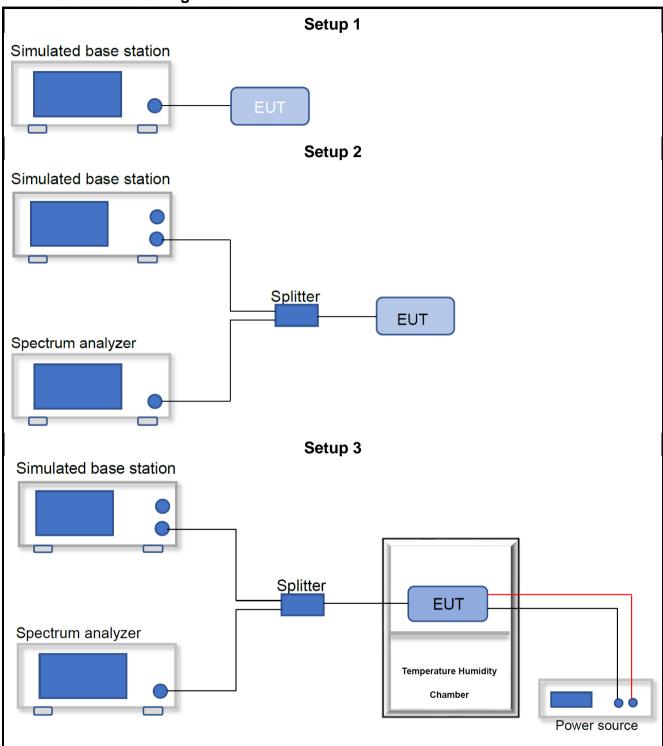
No modifications were made during testing.





2.7 Test Setup Diagram

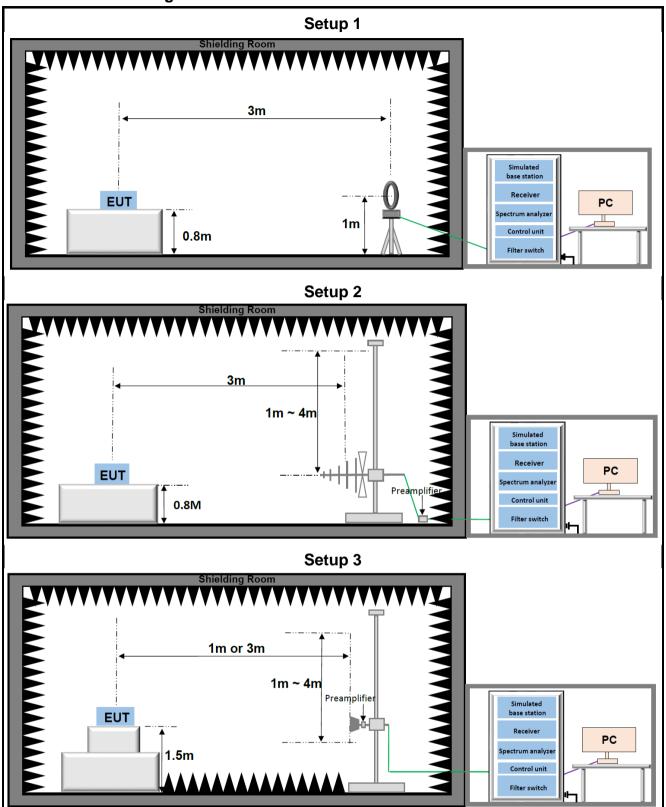
2.7.1 Conducted Configuration







2.7.2 Radiated Configuration





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Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable recognized national standards.

3.1 Test Equipment List

	RF 05								
Description	Manufacturer	Model	S.N.	Last Due	Cal Due				
Wideband Radio	R&S	CMW500	151064	2024/03/25	2025/03/24				
Communication Tester	Nas	CIVIVVOO	151004	2025/03/14	2026/03/13				
Signal Analyzor	Kovojaht	N9020A	US46470468	2024/03/25	2025/03/24				
Signal Analyzer	Keysight	N9020A	0340470400	2025/03/14	2026/03/13				
Cianal Constan	May rain b	NEAGOA	MV5044424C	2024/03/25	2025/03/24				
Signal Generator	Keysight	N5182A	MY50144316	2025/03/11	2026/03/10				
Cianal Conservator	D. C	CMD20	400004	2024/03/25	2025/03/24				
Signal Generator	R&S	SMR20	100621	2025/03/11	2026/03/10				
Hygrometer	BingYu	HTC-1	N/A	2023/06/01	2025/05/31				
Band Reject Filter Group	Tonscend	JS0806-F	23A806F0647	N/A	N/A				
RF Control Unit	Tonscend	JS0806-1	22L8060639	N/A	N/A				
Measurement Software	Tonscend	TS1120 V3.1.46	10636	N/A	N/A				

	RF 04								
Description	Manufacturer	Model	S.N.	Last Due	Cal Due				
Radio		1.1700040		2024/03/25	2025/03/24				
Communication Analyzer	Anritsu	MT8821C	6262170436	2025/03/14	2026/03/13				
Signal Analyzer	Kovsight	N9020A	US46220152	2024/03/25	2025/03/24				
Signal Analyzei	Keysight	N9020A	0340220132	2025/03/14	2026/03/13				
Signal Congretor	May so in lat	NE400A	MY49060761	2024/03/25	2025/03/24				
Signal Generator	Keysight	N5182A	W1149060761	2025/03/11	2026/03/10				
Signal Congretor	R&S	SMR20	101691	2024/03/25	2025/03/24				
Signal Generator	Ras	SIVIRZU	101691	2025/03/11	2026/03/10				
Hygrometer	BingYu	HTC-1	N/A	2023/06/01	2024/05/31				
EXA Signal Analyzer, Multi- touch	Keysight	N9010B	MY63440541	2024/05/30	2025/05/29				
Band Reject Filter Group	Tonscend	JS0806-F	23B806F0662	N/A	N/A				
RF Control Unit	Tonscend	JS0806-1	22L8060650	N/A	N/A				
Measurement Software	Tonscend	TS1120 V3.1.46	10636	N/A	N/A				



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	Radiated Emission								
Description	Manufacturer	Model	S.N.	Last Due	Cal Due				
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2025/06/24				
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2025/06/24				
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2025/06/24				
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2023/06/29	2025/06/28				
Cinnal Analysis	Marrai alat	Noogo	M)/40400050	2024/03/25	2025/03/24				
Signal Analyzer	Keysight	N9020A	MY49100252	2025/03/11	2026/03/10				
EXA Signal Analyzer, Multi- touch	Keysight	N9010B	MY63440541	2024/05/30	2025/05/29				
Wideband Radio	R&S	CMMEOO	150645	2024/03/25	2025/03/24				
Communication Tester	Ras	CMW500	150045	2025/03/11	2026/03/10				
Low Naise Amplifier	Tanasand	TA DOK 20 40	A D00 A 0000070	2023/04/08	2025/04/07				
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2025/03/11	2027/03/10				
Laur Naissa Assalitias	Tanasand	TA D04040050	A D000000000	2023/04/08	2025/04/07				
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2025/03/11	2027/03/10				
La Nicha Assaliti as	T	TA D400 400 40	A D000000047	2023/04/08	2025/04/07				
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2025/03/11	2027/03/10				
Hygrometer	BINGYU	HTC-1	N/A	2023/06/01	2025/05/31				
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A				



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3.2 Measurement Uncertainty

Parameter	U _{lab}
Frequency error	50.30Hz
Output Power	0.76dB
Conducted spurious emissions	2.22dB
Radiated Emissions(9kHz~30MHz)	2.40dB
Radiated Emissions(30MHz~1000MHz)	4.66dB
Radiated Emissions(1GHz~18GHz)	5.42dB
Radiated Emissions(18GHz~40GHz)	5.46dB

Uncertainty figures are valid to a confidence level of 95%



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Test Results

4.1 Output Power (ERP / EIRP / Conducted Power)

Limits

FCC Part	Test Band		Limit			
§22.913(a)(5)	GSM850/WCDMA Band V/LTE Band 5/26(824 ~ 849MHz)	The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7watts.				
§24.232(c)	GSM1900/WCDMA Band II/LTE Band 2/25	Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.				
§27.50(h)(2)	LTE Band 7/38/41	Mobile and other user limited to 2.0 watts EII 2.0 watts transmitter of	RP. All user stat			
§27.50(d)(4)	WCDMA Band IV/LTE Band 4/66/CA_66C	Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780MHz bands are limited to 1watt EIRP. Fixed stations operating in the 1710-1755MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.				
§27.50(c)(10)	LTE Band 12/17/71	Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3watts ERP.				
§27.50(b)(10)	LTE Band 13	Portable stations (han 746-757 MHz, 776-78 are limited to 3 watts E	8MHz, and 805́-			
§90.542(a)	LTE Band 14	Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.				
§90.635(b)	LTE Band 26(814~824MHz)	The maximum output power of the transmitter for mobile stations is 100 watts (20dBw).				
200 44	LTE David 40/04, 400	Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)		
§96.41	LTE Band 48/CA_48C	End User Device	23	n/a		
		Category A CBSD	30	20		
		Category B CBSD ¹	47	37		

Test Procedure

KDB 971168 D01 V03r01 Section 5.2.1, for Conducted Output Power KDB 971168 D01 V03r01 Section 5.2, for Effective (Isotropic) Radiated Power

Test Settings

Conducted Output Power:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the simulated base station. The simulated station was set to force the EUT to its maximum power setting, Transmitter output power was read off in dBm, read values have added cable loss and attenuation.



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Radiated Power:

The formula for calculating ERP/EIRP based on conduction power is as follows: EIRP (dBm) = Conducted Power (dBm) + antenna gain (dBi) ERP=EIRP - 2.15dB

Test Setup

Refer to section 2.7.1 Setup 1

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Results

The detailed test data see: Appendix.



4.2 Peak-Average Ratio

Limits

§22.913(d): The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

§24.232(d): The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

§27.50(d)(5): The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

§96.41: The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test Procedure

KDB 971168 D01 V03r01 Section 5.7.1

Test Settings

The following guidelines are offered for performing a CCDF measurement.

- 1. Set resolution/measurement bandwidth ≥ OBW or specified reference bandwidth.
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve.
- 3. Set the measurement interval as follows:
 - For continuous transmissions, set to the greater of [10 x (number of points in sweep) x (transmission symbol period)] or 1 ms.
 - For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing b) sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
 - If there are several carriers in a single antenna port, the peak power shall be determined for each c) individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
- 4. Record the maximum PAPR level associated with a probability of 0.1%.
- 5. The peak power level is calculated form the sum of the PAPR value from step d) to the measured average power.

Test Setup

Refer to section 2.7.1 Setup 2

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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4.3 Occupied Bandwidth

Limits

For Reporting Purposes only

Test Procedure

KDB 971168 D01 V03r01 Section 4.2 & 4.3

Test Settings

- 1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
- 2. The signal analyzer automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by ant intermediate power nulls in the fundamental emission.
- 3. The simulated base station was set to force the EUT to its maximum transmitting power.
- 4. RBW = 1 5% of the expected OBW
- 5. VBW ≥ 3 times the RBW
- 6. Sweep = Auto
- 7. Detector = Peak
- 8. Trace = Max hold
- 9. The trace was allowed to stabilize

Test Setup

Refer to section 2.7.1 Setup 2

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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4.4 Band Edge and Emission Mask

Limits

FCC part	Test Band	Limit
§22.917(a)	GSM850/WCDMA Band V/LTE Band	
	5/26(824 ~ 849MHz)	The power of any emission outside of the
§24.238(a)	GSM1900/WCDMA Band II/LTE Band 2/25	authorized operating frequency ranges must
§27.53(c)	LTE Band 13	be attenuated below the transmitting power
§27.53(g)	LTE Band 12/17/71	(P) by a factor of at least 43 + 10 log(P) dB.
§27.53(h)	WCDMA Band IV/LTE Band 4/66/CA_66C	
§27.53(m)	LTE Band 7/38/41	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 MHz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 MHz and X MHz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.
§90.210(b) §90.691(a)	LTE Band 14 LTE Band 26(814 ~ 824MHz)	On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations. On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB. in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz be employed.
§96.41	LTE Band 48/CA_48C	for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge.

Test Procedure

KDB 971168 D01 V03r01 Section 6.0

Test Settings

- 1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
- 2. The simulated base station was set to force the EUT to its maximum transmitting power.
- 3. Start and stop frequency were set such that the band edge would be placed in the center of the plot.
- 4. RBW ≥ 1% of the emission bandwidth
- 5. VBW ≥ 3 times the RBW



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- 6. Detector = RMS
- 7. Number of sweep point ≥ 2 times Span/RBW
- 8. Sweep = Auto
- 9. Trace = Max hold
- 10. The trace was allowed to stabilize

Test Setup

Refer to section 2.7.1. Setup 2

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.



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4.5 Spurious Emission at Antenna Terminals

Limits

FCC part	Test Band	Limit
§22.917(a)	GSM850/WCDMA Band V/LTE	
	Band 5/26(824 ~ 849MHz)	
§24.238(a)	GSM1900/WCDMA Band II/LTE	
	Band 2/25	The power of any emission outside of the authorized
§27.53(c)	LTE Band 13	operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least
§27.53(g)	LTE Band 12/17/71	43 + 10 log(P) dB.
§27.53(h)	WCDMA Band IV/LTE Band	
	4/66/CA_66C	
§90.543(c)(f)	LTE Band 14	
§27.53(m)	LTE Band 7/38/41	All frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.
§90.691	LTE Band 26(814~824MHz)	The power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log (P) decibels or 80 decibels, whichever is the lesser attenuation.
§96.41	LTE Band 48/CA_48C	for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

Test Procedure

KDB 971168 D01 V03r01 Section 6.0

Test Settings

- 1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
- 2. The simulated base station was set to force the EUT to its maximum transmitting power.
- 3. Start frequency was set to 9kHz and stop frequency was set to 10th harmonic.
- 4. RBW and VBW (see test notes)
- 5. Detector = RMS
- 6. Sweep = Auto
- 7. Sweep point = below 30MHz(1001pts); 30MHz 1GHz(2001pts); above 1GHz(40001pts)
- 8. Trace = trace average for continuous emissions, max hold for pulse emissions
- 9. Allow trace to fully stabilize

Test Notes

1. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100kHz or greater for measurements below 1GHz. However, in the 1MHz 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



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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 is attenuated at least 26dB below the transmitter power

- 9kHz 150kHz: RBW=1kHz, VBW≥3 times the RBW
- 150kHz 30MHz: RBW=10kHz, VBW≥3 times the RBW

Test Setup

Refer to section 2.7.1. Setup 2

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.



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4.6 Field Strength of Spurious Radiation

Limits

FCC part	Test Band	Limit
§2.1053 §22.917(a)	GSM850/WCDMA Band V/LTE	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.
§24.238(a)	Band 5/26(824 ~ 849MHz) GSM1900/WCDMA Band II/LTE Band 2/25	
§27.53(g) §27.53(h)	LTE Band 12/17/71 WCDMA Band IV/LTE Band	
	4/66/CA_66C	On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 +
§27.53(c)(f)	LTE Band 13	10 log (P) dB; 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. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.
§90.543(e)(f)	LTE Band 14	least 43 + 10 log (P) dB. 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 isotopically radiated power (EIRP) for wideband signals.
§27.53(m)	LTE Band 7/38/41	All frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.
§90.691	LTE Band 26(814~824MHz)	The power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log (P) decibels or 80 decibels, whichever is the lesser attenuation.
§96.41	LTE Band 48/CA_48C	for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

Test Procedure

KDB 971168 D01 V03r01 Section 7



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Test Settings

1. For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.

- 2. For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 150cm above the ground plane.
- 3. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e. field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
- 4. For each suspected emission, the EUT was ranged its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) find the maximum reading. Preamplifier and a high pass filter are used for the test in order get better signal level comply with the guidelines.
- 5. The simulated base station was set to force the EUT to its maximum transmitting power.
- 6. spectrum analyzer setting:

Measurements 9kHz ~150kHz: RBW = 300Hz; VBW ≥ 3kHz; Detector = RMS

Measurements 150kHz ~30MHz: RBW = 10kHz; VBW ≥ 30kHz; Detector = RMS

Measurements 30MHz~1000MHz: RBW = 100kHz or 1MHz; VBW ≥ 1MHz or 3MHz; Detector = RMS

Measurements Above 1000MHz: RBW = 1 MHz; VBW ≥ 3 MHz; Detector = RMS

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

E(dBμV/m) = Measured amplitude level (dBμV) + Cable Loss (dB) + Antenna Factor (dB/m).

E(dBμV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m).

E(dBuV/m) = EIRP(dBm) - 20log(D) + 104.8; where D is the measurement distance(in the far field region) in m.

EIRP(dBm) = E(dB μ V/m) + 20log(D) - 104.8; where D is the measurement distance(in the far field region) in m.

So, from d: The measuring distance is usually at 3m, then 20*Log(3)=9.5424

Then, EIRP $(dBm) = E (dB\mu V/m) + 9.5424-104.8 = E (dB\mu V/m)-95.2576$

- 8. Repeat above procedures until all frequencies measured was complete.
- 9. Measure and record the results in the test report.

Test notes

- This device employs GSM, GPRS, and EGPRS capabilities. The EUT was tested under all configurations and the highest powers is reported in GPRS mode while transmitting with one slot active.
- This device employs UMTS technology with WCDMA(AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2kbps RMC and TPC bits all set to "1".
- 3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. the disturbance between 9kHz to 30MHz, 30MHz-1GHz and 18GHz to 40GHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be recorded, so only the harmonics had been displayed.
- 6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Test Setup

Refer to section 2.7.2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.



4.7 Frequency Stability V.S. Temperature, Voltage

Limits

§22.355:

The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations. §24.235 / §27.54 / §90.213 / §96.41:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure

KDB 971168 D01 V03r01 Section 9

Test Settings

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 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.
- 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.

Test Notes

- 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.

Test Setup

Refer to section 2.7.1 Setup 3

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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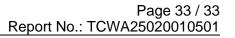
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5 Test Setup Photos

The detailed test data see: Appendix-A WWAN Setup Photos





Appendix

Appendix List:

Appendix-B GSM		
Appendix-C WCDMA		
Appendix-D LTE Band 2		
Appendix-D LTE Band 4		
Appendix-D LTE Band 5		
Appendix-D LTE Band 7		
Appendix-D LTE Band 12		
Appendix-D LTE Band 13		
Appendix-D LTE Band 14		
Appendix-D LTE Band 17		
Appendix-D LTE Band 25		
Appendix-D LTE Band 26(814-824)		
Appendix-D LTE Band 26(824-849)		
Appendix-D LTE Band 38		
Appendix-D LTE Band 41		
Appendix-D LTE Band 48		
Appendix-D LTE Band 66		
Appendix-D LTE Band 71		
Appendix-D LTE CA_48C		
Appendix-D LTE CA_66C		
Appendix-F Field Strength of Spurious Radiation-234G		

~The End~