TEST REPORT

Application No.:	KSCR2205000668AT
FCC ID:	2AH25T8920
Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Equipment Under Test (EUT):	
EUT Name:	Handheld Wireless Terminal
Model No.:	T8920
Standard(s) :	47 CFR Part 2 47 CFR Part 22 47 CFR Part 24 47 CFR Part 27 47 CFR Part 90
Date of Receipt:	2022-07-13
Date of Test:	2022-07-15 to 2022-08-16
Date of Issue:	2022-08-24
Test Result:	**Pass**

* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin
Laboratory Manager

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Revision Record			
Version	**Description**	**Date**	**Remark**
00	Original	2022-08-24	/

Authorized for issue by:				
		Eric Liu **Eric Liu /Project Engineer**		
		Eric Lin **Eric Lin /Reviewer**		

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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §22.913 §24.232 §27.50(a) §27.50(b) §27.50(c) §27.50(d) §27.50(h)	ERP≤7W(LTE Band 5,26) EIRP≤ 3W(LTE Band 12,13,14,17,71) EIRP≤ 2W(LTE Band 2,7,25,38,41) EIRP≤ 1W(LTE Band 4,66) EIRP≤ 250mW/5MHz(LTE Band 30)	PASS
Peak-Average Ratio	§24.232 §27.50(c) §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW:No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §22.917 §24.238 §27.50(a) §27.53(c) §27.53(h) §27.53(g) §90.691	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block ≤ -13dBm(LTE Band7, 38, 41<5.5MHz) -25dBm(LTE Band7, 38, 41⩾5.5MHz)	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.53(c) §27.53(h) §27.53(g) §90.691	≤ -13dBm(LTE Band2,4,5,12,13,14,17,25,26,66,71) ≤ -25dBm(LTE Band7,38,41) ≤ -40dBm(LTE Band 30, LTE Band 13(1559-1610MHz))	PASS
Radiated spurious emission	§2.1051 §22.917 §24.238 §27.53(a) §27.53(c) §27.53(h) §27.53(g) §27.53(m) §90.543 §90.691	≤ -13dBm(LTE Band2,4,5,12,13,14,17,25,26,66,71) ≤ -25dBm(LTE Band7,38,41) ≤ -40dBm(LTE Band 30)	PASS
Frequency stability	§2.1055, §22.355, §24.235 §27.54	≤ ±2.5ppm.	PASS

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Note: After Pre-scan test, we chose sim card 1 as the main test, sim card 2 was verified the Spurious emissions.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Adapter 1 Model: TPA-23A050200UU01 Input: 100-240V~50/60Hz 0.3A Output: 5.0V 2.0A Adapter 2 Model: UC13US Input: 100-240V~50/60Hz 0.35A Output: 5.0V 2.0A Battery: Model: JKNR 1ICP10/51/66 Rated capacity: 5000mAh/19Wh Nominal voltage: 3.8V Limited charge voltage: 4.35V
Test voltage:	3.8V DC
Serial Number:	LP07D26F00016
Firmware version:	Sun8611_V0.41_20220622
Sample Type:	Portable production
LTE Operation Frequency Band:	LTE Band 2,4,5,7,12,13,14,17,18,19, 25,26,30,38,41,66,71
Modulation Type:	QPSK, 16QAM, 64QAM
Antenna Type:	PIFA Antenna
Antenna Gain:	Band 2: -0.56dBi (Provided by the manufacturer) Band 4: -0.28dBi (Provided by the manufacturer) Band 5: -2.02dBi (Provided by the manufacturer) Band 7: 0.3dBi (Provided by the manufacturer) Band 12: -3.4dBi (Provided by the manufacturer) Band 13: -4.31dBi (Provided by the manufacturer) Band 14: -4.02dBi (Provided by the manufacturer) Band 17: -3.4dBi (Provided by the manufacturer) Band 25: -1.57dBi (Provided by the manufacturer) Band 26: -2.02dBi (Provided by the manufacturer) Band 30: 0.69dBi (Provided by the manufacturer) Band 38: 0.39dBi (Provided by the manufacturer) Band 41: 0.39dBi (Provided by the manufacturer) Band 66: -0.28dBi (Provided by the manufacturer) Band 71: -3.58dBi (Provided by the manufacturer)
Extreme temp. Tolerance:	-20°C to +55°C
Extreme vol. Limits:	3.23V DC to 4.37V DC (nominal: 3.8V DC)
IMEI:	867682065002807

Note:

1. The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.

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4.2 Test Frequency

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 2	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
	5	1852.5	1880	1907.5
	10	1855.0	1880	1905.0
	15	1857.5	1880	1902.5
	20	1860.0	1880	1900.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 7	5	2502.5	2535	2567.5
	10	2505	2535	2565
	15	2507.5	2535	2562.5
	20	2510	2535	2560

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz

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LTE FDD Band 12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704	707.5	711
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 13	5	779.5	782	784.5
	10	/	782	/
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 14	5	790.5	793	795.5
	10	/	793	/
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 17	5	706.5	710	713.5
	10	709	710	711
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 25	1.4	1850.7	1880	1914.3
	3	1851.5	1880	1913.5
	5	1852.5	1880	1912.5
	10	1855.0	1880	1910
	15	1857.5	1880	1907.5
	20	1860.0	1880	1905
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 26 (814-824MHz)	1.4	814.7	819	823.3
	3	815.5	819	822.5
	5	816.5	819	821.5
	10	/	819	/
Test mode:	**Nominal Bandwidth**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**

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	(MHz)	MHz	MHz	MHz
LTE FDD Band 26 (824-849MHz)	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829	836.5	844
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 26 (814-824MHz 824-849MHz)	15	821.5	831.5	841.5
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 30	5	2307.5	2310	2312.5
	10	/	2310	/

Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE TDD Band 38	5	2572.5	2595.0	2617.5
	10	2575.0	2595.0	2615.0
	15	2577.5	2595.0	2612.5
	20	2580.0	2595.0	2610.0
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE TDD Band 41	5	2498.5	2593.0	2687.5
	10	2501.0	2593.0	2685.0
	15	2503.5	2593.0	2682.5
	20	2506.0	2593.0	2680.0
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 66	1.4	1710.7	1745	1779.3
	3	1711.5	1745	1778.5
	5	1712.5	1745	1777.5

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	10	1715	1745	1775
	15	1717.5	1745	1772.5
	20	1720	1745	1770
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 71	5	665.5	680.5	695.5
	10	668	680.5	693
	15	670.5	680.5	690.5
	20	673	683	688

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4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	48%	
Atmospheric Pressure:	1015Pa	
Temperature:	TN	25 °C
Voltage:	VL	3.46V
	VN	3.8V
	VH	4.35V

NOTE: VL= lower extreme test voltage
VN= nominal voltage
VH= upper extreme test voltage
TN= normal temperature

4.4 Description of Support Units

The EUT has been tested as an independent unit.

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4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty cycle	0.37%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.84dB
7	Conducted Spurious emissions	0.75dB
8	RF Radiated power	4.6dB (Below 1GHz)
		4.1dB (Above 1GHz)
9	Radiated Spurious emission test	4.2dB (Below 30MHz)
		4.4dB (30MHz-1GHz)
		4.8dB (1GHz-18GHz)
		5.2dB (Above 18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.7 Test Facility

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

- **CNAS**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.

4.8 Deviation from Standards

None

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4.9 Abnormalities from Standard Conditions

None

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5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2022	04/15/2023
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	12/02/2021	12/01/2022
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2022	01/31/2023
4	Signal Generator	Agilent	N5182A	MY50142015	09/25/2020	09/24/2021
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/19/2021	10/18/2022
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2022	04/15/2023
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2022	04/14/2023
10	Switcher	CCSRF	FY562	KUS2001M001-3	10/19/2021	10/18/2022
11	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
12	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
13	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
14	Conducted test cable	/	RF01-RF04	/	04/15/2022	04/14/2023
15	Software	BST	TST-PASS	N/A	N/A	N/A
16	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2022	04/14/2023
17	Thermometer	Anymetre	TH603	CCS007	10/16/2021	10/15/2022
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	101493	10/19/2021	10/18/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/19/2021	10/18/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2020	06/20/2022
5	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2022	02/21/2023
10	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2022	04/14/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/23/2021	10/22/2022
12	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
13	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
14	Filter (885 MHz～915 MHz）	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
15	Filter (815 MHz～860 MHz）	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
16	Filter (1745 MHz～1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
17	Filter (1922 MHz～1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
18	Filter (1532 MHz～1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
19	RE test cable	/	RE01-RE04	/	04/15/2022	04/14/2023
20	Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A

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21	Universal Radio Communication Tester	R&S	CMW500	159275	10/19/2021	10/18/2022
22	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2022	04/15/2023

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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046,§22.913,§24.232, §27.50(a),§27.50(b),§27.50(c),§27.50(d), §27.50(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ERP≤7W(LTE Band 5,26)
EIRP≤ 3W(LTE Band 12,13,14,17,71)
EIRP≤ 2W(LTE Band 2,7,25,38,41)
EIRP≤ 1W(LTE Band 4,66)
EIRP≤250mW/5MHz(LTE Band 30)

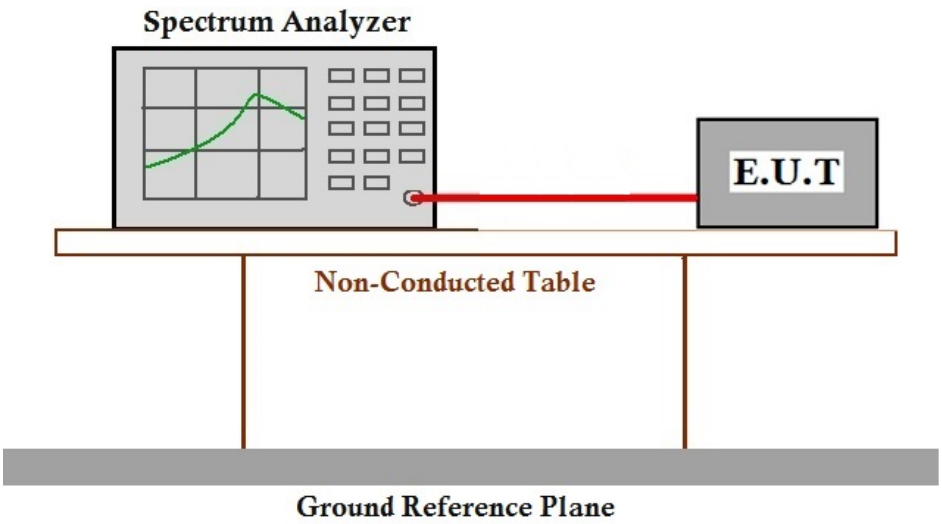
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



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6.1.3 Measurement Data

Please refer to
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Appendix L for KSCR2205000668AT, Appendix M for KSCR2205000668AT,
Appendix N for KSCR2205000668AT, Appendix O for KSCR2205000668AT,
Appendix P for KSCR2205000668AT, Appendix Q for KSCR2205000668AT,
Appendix R for KSCR2205000668AT, Appendix S for KSCR2205000668AT,
Appendix T for KSCR2205000668AT, Appendix U for KSCR2205000668AT.
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6.2 Peak-Average Ratio

Test Requirement: §24.232,§27.50(c),§27.50(d)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤13dB

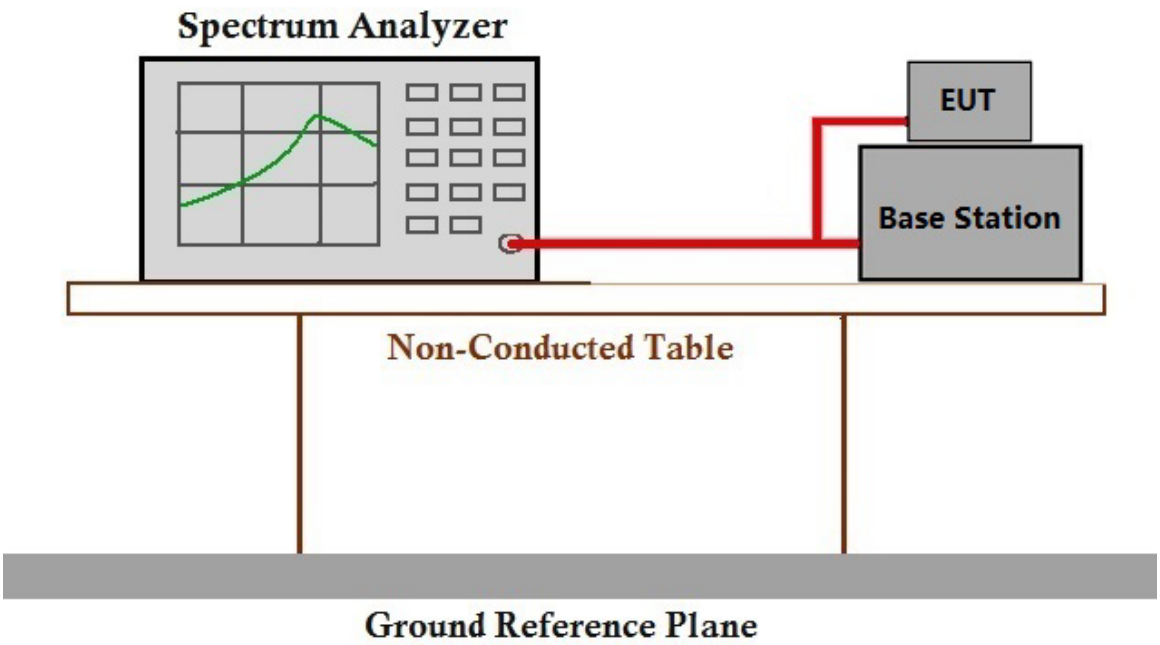
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

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Appendix X for KSCR2205000668AT, Appendix Y for KSCR2205000668AT,
Appendix Z for KSCR2205000668AT.

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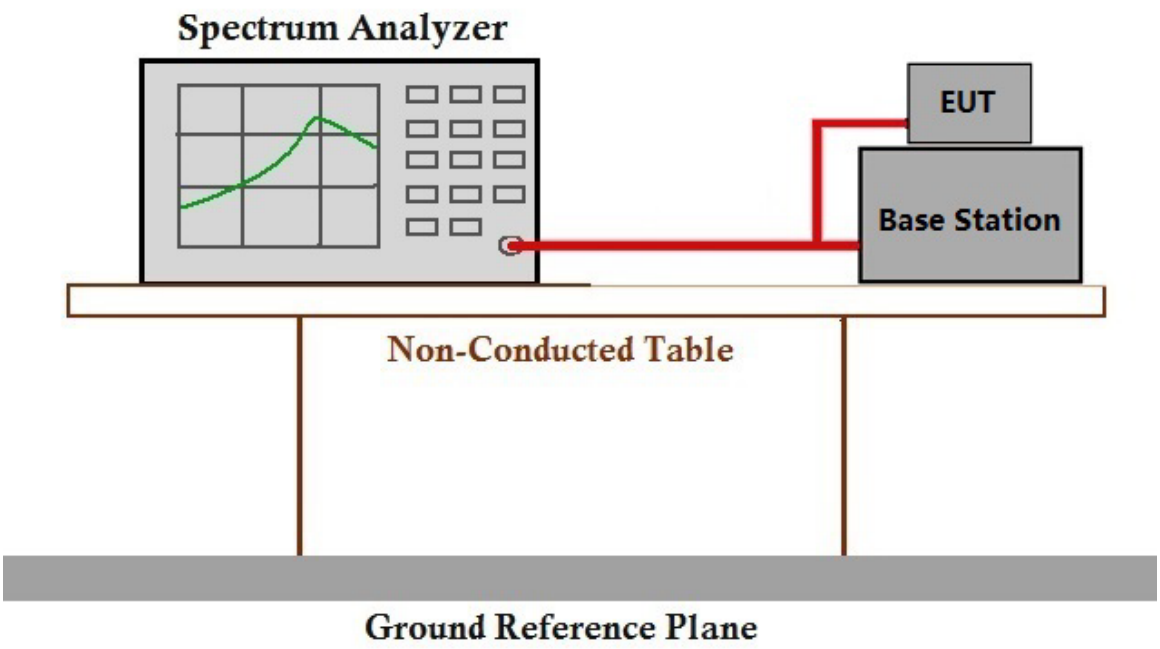
6.3 Bandwidth

Test Requirement: §2.1049(h)
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: OBW: No limit
EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to
Appendix J for KSCR2205000668AT, Appendix K for KSCR2205000668AT,
Appendix L for KSCR2205000668AT, Appendix M for KSCR2205000668AT,
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6.4 Band Edge Compliance

Test Requirement: §2.1051

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block

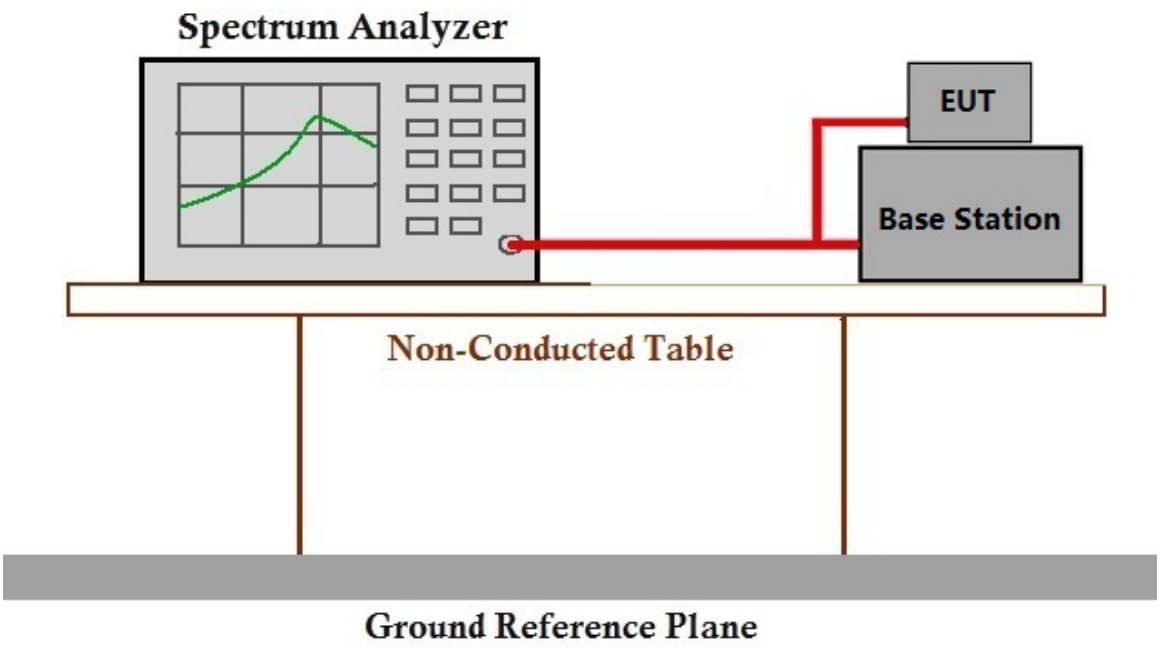
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



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6.4.3 Measurement Data

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Remark: The emission of frequencies between 793MHz-805MHz meets the requirements of FCC, test plots don't reflected in the report.

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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm(LTE Band2,4,5,12,13,14,17,25,26,66,71)
≤ -25dBm(LTE Band7,38,41)
≤-40dBm(LTE Band 30)
For operations in the 775-788MHz, emissions in the 1559-1610MHz shall be limited to -70dBW/MHz, The limit of emissions is equal to -40dBm.

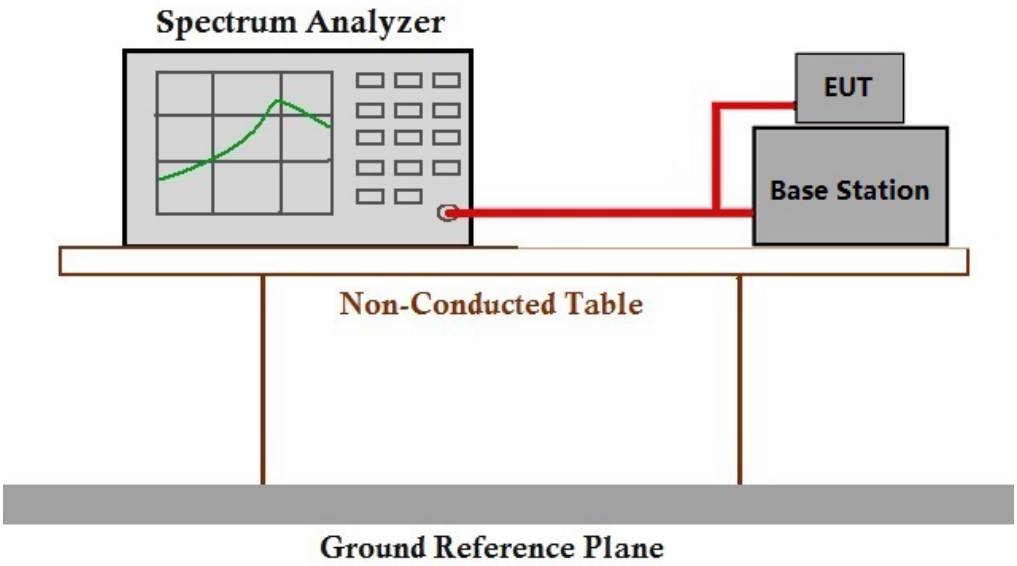
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Please refer to
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6.6 Radiated spurious emission

Test Requirement: §2.1051

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm(LTE Band2,4,5,12,13,14,17,25,26,66,71)
≤ -25dBm(LTE Band7,38,41)
≤-40dBm(LTE Band 30, LTE Band 13(1559-1610MHz))

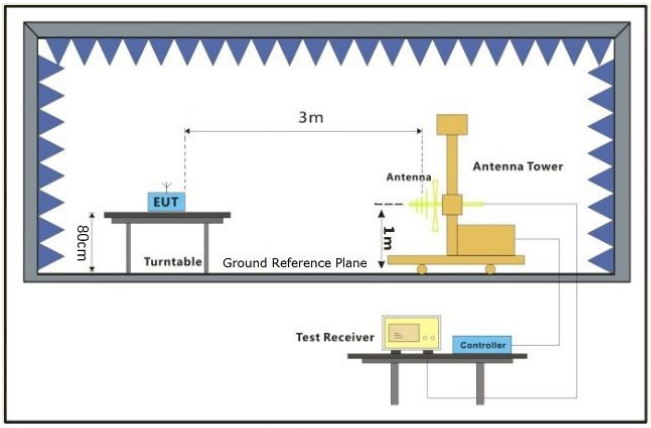
6.6.1 E.U.T. Operation

Operating Environment:

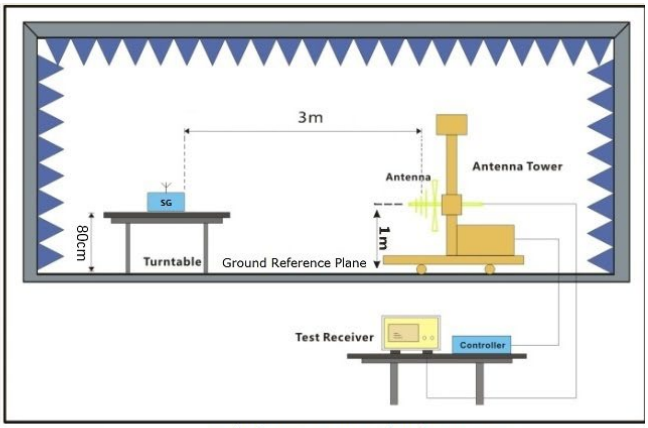
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.6.2 Test Setup Diagram



EUT



Substiute Antenna+Signal Generator

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6.6.3 Measurement Procedure and Data

Test Procedure:

(1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
(2)The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
(3)The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
(4)The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
(5)The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
(6)The transmitter shall than be rotated through 360°in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
(7)The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
(8)The maximum signal level detected by the measuring receiver shall be noted.
(9)The measurement shall be repeated with the test antenna set to horizontal polarization.
(10) Replace the antenna with a proper Antenna (substitution antenna).
(11)The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
(12)The substitution antenna shall be connected to a calibrated signal generator.
(13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
(14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
(15)The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
(16)The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
(17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

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LTE BAND 2-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3720.000	-55.00	-13	-42.00	Horizontal
5580.000	-58.10	-13	-45.10	Horizontal
7440.000	-55.82	-13	-42.82	Horizontal
3720.000	-57.62	-13	-44.62	Vertical
5580.000	-59.62	-13	-46.62	Vertical
7440.000	-56.22	-13	-43.22	Vertical

LTE BAND 2-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3760.000	-53.12	-13	-40.12	Horizontal
5640.000	-62.10	-13	-49.10	Horizontal
7520.000	-58.77	-13	-45.77	Horizontal
3760.000	-53.11	-13	-40.11	Vertical
5640.000	-58.90	-13	-45.90	Vertical
7520.000	-58.09	-13	-45.09	Vertical

LTE BAND 2-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3800.000	-58.60	-13	-45.60	Horizontal
5700.000	-63.43	-13	-50.43	Horizontal
7600.000	-56.04	-13	-43.04	Horizontal
3800.000	-57.62	-13	-44.62	Vertical
5700.000	-63.28	-13	-50.28	Vertical
7600.000	-53.24	-13	-40.24	Vertical
LTE BAND 4-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3440.000	-57.14	-13	-44.14	Horizontal
5160.000	-58.48	-13	-45.48	Horizontal
6880.000	-53.17	-13	-40.17	Horizontal

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3440.000	-59.10	-13	-46.10	Vertical
5160.000	-60.25	-13	-47.25	Vertical
6880.000	-53.31	-13	-40.31	Vertical

LTE BAND 4-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3465.000	-51.17	-13	-38.17	Horizontal
5197.500	-61.08	-13	-48.08	Horizontal
6930.000	-57.32	-13	-44.32	Horizontal
3465.000	-52.89	-13	-39.89	Vertical
5197.500	-58.96	-13	-45.96	Vertical
6930.000	-57.33	-13	-44.33	Vertical

LTE BAND 4-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3490.000	-59.42	-13	-46.42	Horizontal
5235.000	-62.54	-13	-49.54	Horizontal
6980.000	-54.13	-13	-41.13	Horizontal
3490.000	-56.40	-13	-43.40	Vertical
5235.000	-59.79	-13	-46.79	Vertical
6980.000	-57.24	-13	-44.24	Vertical

LTE BAND 5-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1658.000	-60.38	-13	-47.38	Horizontal
2487.000	-56.24	-13	-43.24	Horizontal
3316.000	-56.64	-13	-43.64	Horizontal
1658.000	-53.97	-13	-40.97	Vertical
2487.000	-56.24	-13	-43.24	Vertical
3316.000	-54.59	-13	-41.59	Vertical

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LTE BAND 5-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1673.000	-56.19	-13	-43.19	Horizontal
2509.500	-59.74	-13	-46.74	Horizontal
3346.000	-55.47	-13	-42.47	Horizontal
1673.000	-53.02	-13	-40.02	Vertical
2509.500	-59.27	-13	-46.27	Vertical
3346.000	-55.85	-13	-42.85	Vertical

LTE BAND 5-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1688.000	-54.12	-13	-41.12	Horizontal
2532.000	-62.93	-13	-49.93	Horizontal
3376.000	-53.76	-13	-40.76	Horizontal
1688.000	-52.26	-13	-39.26	Vertical
2532.000	-61.70	-13	-48.70	Vertical
3376.000	-54.70	-13	-41.70	Vertical

LTE BAND 7-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
5020.000	-52.47	-25	-27.47	Horizontal
7530.000	-58.40	-25	-33.40	Horizontal
10040.000	-55.92	-25	-30.92	Horizontal
5020.000	-52.98	-25	-27.98	Vertical
7530.000	-60.40	-25	-35.40	Vertical
10040.000	-54.87	-25	-29.87	Vertical

LTE BAND 7-Middle channel

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Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
5070.000	-50.22	-25	-25.22	Horizontal
7605.000	-61.26	-25	-36.26	Horizontal
10140.000	-55.86	-25	-30.86	Horizontal
5070.000	-59.31	-25	-34.31	Vertical
7605.000	-61.96	-25	-36.96	Vertical
10140.000	-59.60	-25	-34.60	Vertical

LTE BAND 7-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
5120.000	-59.47	-25	-34.47	Horizontal
7680.000	-61.13	-25	-36.13	Horizontal
10240.000	-52.64	-25	-27.64	Horizontal
5120.000	-58.37	-25	-33.37	Vertical
7680.000	-62.24	-25	-37.24	Vertical
10240.000	-52.76	-25	-27.76	Vertical

LTE BAND 12-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1408.000	-56.09	-13	-43.09	Horizontal
2112.000	-59.13	-13	-46.13	Horizontal
2816.000	-57.69	-13	-44.69	Horizontal
1408.000	-59.22	-13	-46.22	Vertical
2112.000	-57.13	-13	-44.13	Vertical
2816.000	-53.59	-13	-40.59	Vertical

LTE BAND 12-Middle channel				
Frequency	Level	Limit	Over Limit	Polarization

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(MHz)	(dBm)	(dBm)	(dB)	
1415.000	-56.57	-13	-43.57	Horizontal
2122.500	-57.35	-13	-44.35	Horizontal
2830.000	-59.36	-13	-46.36	Horizontal
1415.000	-52.66	-13	-39.66	Vertical
2122.500	-57.46	-13	-44.46	Vertical
2830.000	-58.94	-13	-45.94	Vertical

LTE BAND 12-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1422.000	-56.22	-13	-43.22	Horizontal
2133.000	-62.33	-13	-49.33	Horizontal
2844.000	-56.69	-13	-43.69	Horizontal
1422.000	-56.95	-13	-43.95	Vertical
2133.000	-59.23	-13	-46.23	Vertical
2844.000	-55.87	-13	-42.87	Vertical

LTE BAND 13-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1559.000	-52.91	-40	-12.91	Horizontal
2338.500	-60.28	-13	-47.28	Horizontal
3118.000	-57.08	-13	-44.08	Horizontal
1559.000	-60.77	-40	-20.77	Vertical
2338.500	-58.32	-13	-45.32	Vertical
3118.000	-55.09	-13	-42.09	Vertical

LTE BAND 13-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization

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1564.000	-54.63	-40	-14.63	Horizontal
2346.000	-62.08	-13	-49.08	Horizontal
3128.000	-57.12	-13	-44.12	Horizontal
1564.000	-59.28	-40	-19.28	Vertical
2346.000	-60.95	-13	-47.95	Vertical
3128.000	-59.80	-13	-46.80	Vertical

LTE BAND 13-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1569.000	-53.99	-40	-13.99	Horizontal
2353.500	-63.11	-13	-50.11	Horizontal
3138.000	-52.80	-13	-39.80	Horizontal
1569.000	-55.04	-40	-15.04	Vertical
2353.500	-59.69	-13	-46.69	Vertical
3138.000	-57.25	-13	-44.25	Vertical

LTE BAND 14-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1581.000	-53.62	-13	-40.62	Horizontal
2371.500	-56.46	-13	-43.46	Horizontal
3162.000	-54.73	-13	-41.73	Horizontal
1581.000	-51.40	-13	-38.40	Vertical
2371.500	-56.09	-13	-43.09	Vertical
3162.000	-56.11	-13	-43.11	Vertical

LTE BAND 14-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1586.000	-56.80	-13	-43.80	Horizontal

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2379.000	-59.32	-13	-46.32	Horizontal
3172.000	-59.32	-13	-46.32	Horizontal
1586.000	-57.24	-13	-44.24	Vertical
2379.000	-57.33	-13	-44.33	Vertical
3172.000	-56.15	-13	-43.15	Vertical

LTE BAND 14-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1591.000	-54.38	-13	-41.38	Horizontal
2386.500	-61.43	-13	-48.43	Horizontal
3182.000	-52.69	-13	-39.69	Horizontal
1591.000	-54.90	-13	-41.90	Vertical
2386.500	-59.34	-13	-46.34	Vertical
3182.000	-53.77	-13	-40.77	Vertical

LTE BAND 17-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1418	-53.45	-13	-40.45	Horizontal
2127	-56.11	-13	-43.11	Horizontal
2836	-54.57	-13	-41.57	Horizontal
1418	-51.06	-13	-38.06	Vertical
2127	-55.91	-13	-42.91	Vertical
2836	-55.84	-13	-42.84	Vertical

LTE BAND 17-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1420	-56.46	-13	-43.46	Horizontal
2130	-59.10	-13	-46.10	Horizontal
2840	-58.99	-13	-45.99	Horizontal
1420	-56.88	-13	-43.88	Vertical
2130	-57.05	-13	-44.05	Vertical

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2840	-55.97	-13	-42.97	Vertical

LTE BAND 17-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1422	-54.02	-13	-41.02	Horizontal
2133	-61.10	-13	-48.10	Horizontal
2844	-52.47	-13	-39.47	Horizontal
1422	-54.73	-13	-41.73	Vertical
2133	-59.03	-13	-46.03	Vertical
2844	-53.43	-13	-40.43	Vertical

LTE BAND 25-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3720.000	-59.08	-13	-46.08	Horizontal
5580.000	-58.26	-13	-45.26	Horizontal
7440.000	-55.48	-13	-42.48	Horizontal
3720.000	-56.22	-13	-43.22	Vertical
5580.000	-58.89	-13	-45.89	Vertical
7440.000	-57.09	-13	-44.09	Vertical

LTE BAND 25-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3760.000	-54.56	-13	-41.56	Horizontal
5640.000	-58.13	-13	-45.13	Horizontal
7520.000	-56.47	-13	-43.47	Horizontal
3760.000	-57.10	-13	-44.10	Vertical
5640.000	-60.01	-13	-47.01	Vertical
7520.000	-56.34	-13	-43.34	Vertical

LTE BAND 25-High channel

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Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3810.000	-61.40	-13	-48.40	Horizontal
5715.000	-61.04	-13	-48.04	Horizontal
7620.000	-54.47	-13	-41.47	Horizontal
3810.000	-58.28	-13	-45.28	Vertical
5715.000	-61.87	-13	-48.87	Vertical
7620.000	-53.72	-13	-40.72	Vertical

LTE BAND 26-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1643.000	-57.56	-13	-44.56	Horizontal
2464.500	-58.82	-13	-45.82	Horizontal
3286.000	-53.67	-13	-40.67	Horizontal
1643.000	-55.42	-13	-42.42	Vertical
2464.500	-57.53	-13	-44.53	Vertical
3286.000	-53.38	-13	-40.38	Vertical

LTE BAND 26-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1663.000	-56.04	-13	-43.04	Horizontal
2494.500	-58.39	-13	-45.39	Horizontal
3326.000	-58.82	-13	-45.82	Horizontal
1663.000	-55.99	-13	-42.99	Vertical
2494.500	-60.58	-13	-47.58	Vertical
3326.000	-58.77	-13	-45.77	Vertical

LTE BAND 26-High channel				
Frequency	Level	Limit	Over Limit	Polarization

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(MHz)	(dBm)	(dBm)	(dB)	
1683.000	-58.18	-13	-45.18	Horizontal
2524.500	-58.64	-13	-45.64	Horizontal
3366.000	-54.20	-13	-41.20	Horizontal
1683.000	-53.54	-13	-40.54	Vertical
2524.500	-63.56	-13	-50.56	Vertical
3366.000	-54.89	-13	-41.89	Vertical

LTE BAND 30-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
4615.000	-59.18	-40	-19.18	Horizontal
6922.500	-56.24	-40	-16.24	Horizontal
9230.000	-57.57	-40	-17.57	Horizontal
4615.000	-58.39	-40	-18.39	Vertical
6922.500	-57.43	-40	-17.43	Vertical
9230.000	-53.11	-40	-13.11	Vertical

LTE BAND 30-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
4620.000	-56.09	-40	-16.09	Horizontal
6930.000	-60.60	-40	-20.60	Horizontal
9240.000	-57.15	-40	-17.15	Horizontal
4620.000	-57.57	-40	-17.57	Vertical
6930.000	-60.83	-40	-20.83	Vertical
9240.000	-55.40	-40	-15.40	Vertical

LTE BAND 30-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
4625.000	-58.96	-40	-18.96	Horizontal
6937.500	-59.97	-40	-19.97	Horizontal

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9250.000	-52.86	-40	-12.86	Horizontal
4625.000	-58.80	-40	-18.80	Vertical
6937.500	-61.77	-40	-21.77	Vertical
9250.000	-56.79	-40	-16.79	Vertical

LTE BAND 66-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3440.000	-51.25	-13	-38.25	Horizontal
5160.000	-57.84	-13	-44.84	Horizontal
6880.000	-55.25	-13	-42.25	Horizontal
3440.000	-59.64	-13	-46.64	Vertical
5160.000	-57.66	-13	-44.66	Vertical
6880.000	-53.88	-13	-40.88	Vertical

LTE BAND 66-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3490.000	-51.83	-13	-38.83	Horizontal
5235.000	-60.96	-13	-47.96	Horizontal
6980.000	-57.37	-13	-44.37	Horizontal
3490.000	-50.71	-13	-37.71	Vertical
5235.000	-62.24	-13	-49.24	Vertical
6980.000	-59.38	-13	-46.38	Vertical

LTE BAND 66-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3540.000	-61.22	-13	-48.22	Horizontal
5310.000	-63.16	-13	-50.16	Horizontal
7080.000	-55.05	-13	-42.05	Horizontal
3540.000	-52.78	-13	-39.78	Vertical
5310.000	-61.70	-13	-48.70	Vertical

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7080.000	-54.87	-13	-41.87	Vertical

LTE BAND 38-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
5160.000	-52.92	-25	-27.92	Horizontal
7740.000	-60.44	-25	-35.44	Horizontal
10320.000	-55.57	-25	-30.57	Horizontal
5160.000	-53.74	-25	-28.74	Vertical
7740.000	-56.99	-25	-31.99	Vertical
10320.000	-54.14	-25	-29.14	Vertical

LTE BAND 38-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
5190.000	-59.66	-25	-34.66	Horizontal
7785.000	-61.20	-25	-36.20	Horizontal
10380.000	-56.17	-25	-31.17	Horizontal
5190.000	-53.81	-25	-28.81	Vertical
7785.000	-62.18	-25	-37.18	Vertical
10380.000	-55.68	-25	-30.68	Vertical

LTE BAND 38-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
5220.000	-60.15	-25	-35.15	Horizontal
7830.000	-60.22	-25	-35.22	Horizontal
10440.000	-57.04	-25	-32.04	Horizontal
5220.000	-54.59	-25	-29.59	Vertical
7830.000	-60.23	-25	-35.23	Vertical
10440.000	-54.72	-25	-29.72	Vertical

LTE BAND 41-Low channel				
Frequency	Level	Limit	Over Limit	Polarization

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(MHz)	(dBm)	(dBm)	(dB)	
5012.000	-60.80	-25	-35.80	Horizontal
7518.000	-60.68	-25	-35.68	Horizontal
10024.000	-55.95	-25	-30.95	Horizontal
5012.000	-51.21	-25	-26.21	Vertical
7518.000	-58.58	-25	-33.58	Vertical
10024.000	-56.43	-25	-31.43	Vertical

LTE BAND 41-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
5186.000	-56.01	-25	-31.01	Horizontal
7779.000	-59.97	-25	-34.97	Horizontal
10372.000	-55.25	-25	-30.25	Horizontal
5186.000	-54.55	-25	-29.55	Vertical
7779.000	-61.34	-25	-36.34	Vertical
10372.000	-56.40	-25	-31.40	Vertical

LTE BAND 41-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
5360.000	-57.99	-25	-32.99	Horizontal
8040.000	-60.36	-25	-35.36	Horizontal
10720.000	-55.05	-25	-30.05	Horizontal
5360.000	-59.63	-25	-34.63	Vertical
8040.000	-59.26	-25	-34.26	Vertical
10720.000	-56.74	-25	-31.74	Vertical

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LTE BAND 71-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1346.000	-58.04	-13	-45.04	Horizontal
2019.000	-56.96	-13	-43.96	Horizontal
2692.000	-53.50	-13	-40.50	Horizontal
1346.000	-55.32	-13	-42.32	Vertical
2019.000	-59.49	-13	-46.49	Vertical
2692.000	-53.41	-13	-40.41	Vertical

LTE BAND 71-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1366.000	-57.73	-13	-44.73	Horizontal
2049.000	-61.57	-13	-48.57	Horizontal
2732.000	-54.98	-13	-41.98	Horizontal
1366.000	-57.14	-13	-44.14	Vertical
2049.000	-61.43	-13	-48.43	Vertical
2732.000	-56.83	-13	-43.83	Vertical

LTE BAND 71-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1376.000	-55.40	-13	-42.40	Horizontal
2064.000	-58.92	-13	-45.92	Horizontal
2752.000	-53.48	-13	-40.48	Horizontal
1376.000	-53.18	-13	-40.18	Vertical
2064.000	-63.57	-13	-50.57	Vertical
2752.000	-57.24	-13	-44.24	Vertical

Remark:

We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.

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6.7 Frequency stability

Test Requirement: §2.1055

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ ±2.5ppm.

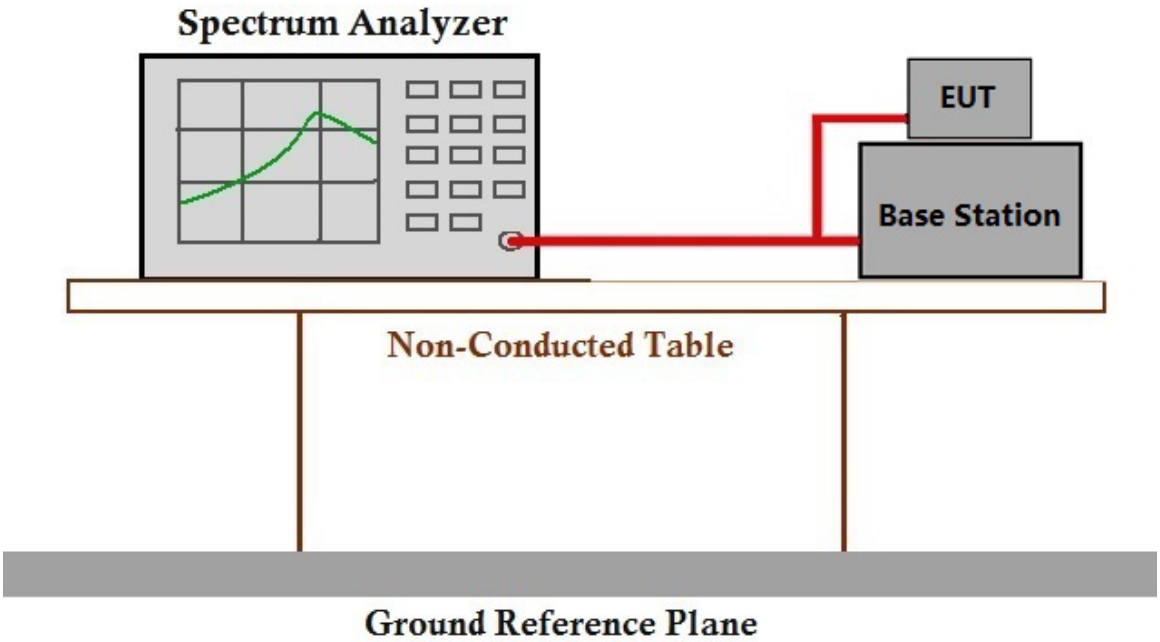
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to

Appendix J for KSCR2205000668AT, Appendix K for KSCR2205000668AT,
Appendix L for KSCR2205000668AT, Appendix M for KSCR2205000668AT,
Appendix N for KSCR2205000668AT, Appendix O for KSCR2205000668AT,
Appendix P for KSCR2205000668AT, Appendix Q for KSCR2205000668AT,
Appendix R for KSCR2205000668AT, Appendix S for KSCR2205000668AT,
Appendix T for KSCR2205000668AT, Appendix U for KSCR2205000668AT.
Appendix V for KSCR2205000668AT, Appendix W for KSCR2205000668AT,
Appendix X for KSCR2205000668AT, Appendix Y for KSCR2205000668AT,
Appendix Z for KSCR2205000668AT.

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6.8 Modulation Characteristics

Test Requirement: §2.1047
Test Method: ANSI C63.26
Limit: Digital modulation

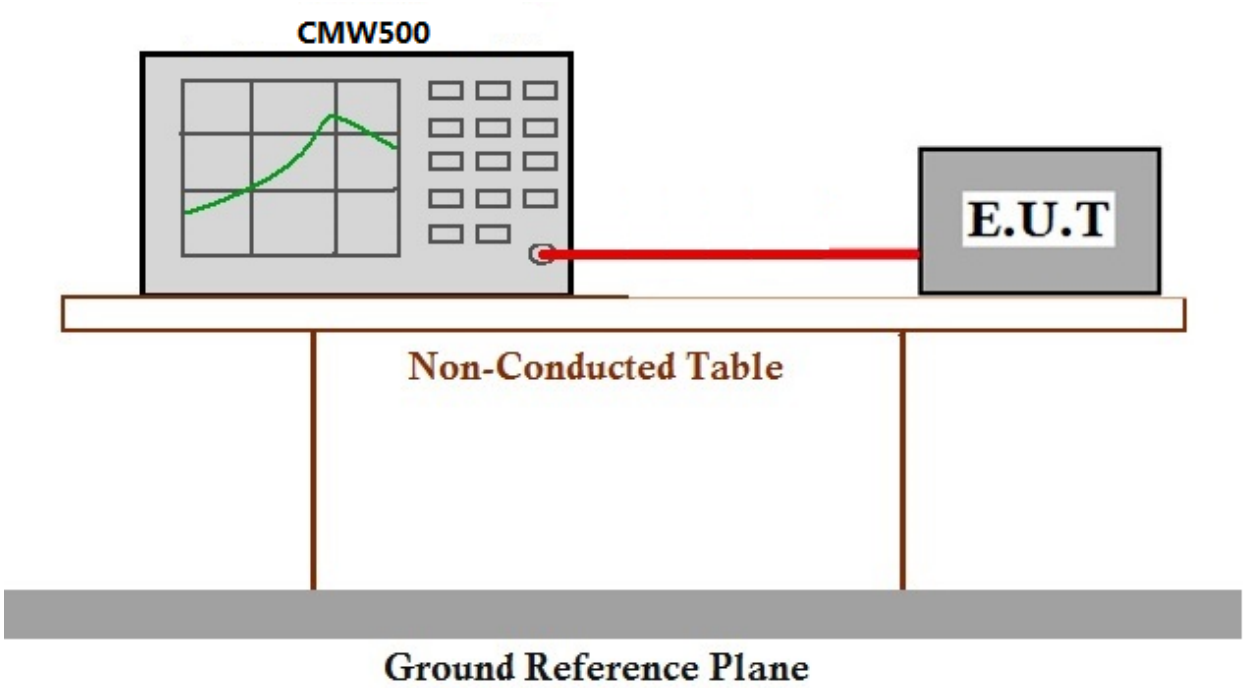
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

Please refer to
Appendix J for KSCR2205000668AT, Appendix K for KSCR2205000668AT,
Appendix L for KSCR2205000668AT, Appendix M for KSCR2205000668AT,
Appendix N for KSCR2205000668AT, Appendix O for KSCR2205000668AT,
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7 Photographs

Refer to the < Photographs >

- End of the Report -

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