



Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220100016003

Page: 1 of 25

TEST REPORT

Application No.: KSCR2201000160AT
FCC ID: 2AU8HSRT321-CBR5
Applicant: Smawave Technology Co., Ltd
Address of Applicant: 3/F, Building 8, 1001 North Qinzhou Road, Xuhui District, Shanghai, China
Manufacturer: Smawave Technology Co., Ltd
Address of Manufacturer: 3/F, Building 8, 1001 North Qinzhou Road, Xuhui District, Shanghai, China
Equipment Under Test (EUT):
EUT Name: Indoor CPE
Model No.: SRT321
Trade Mark: Smawave
Standard(s) : 47 CFR Part 2
47 CFR Part 27
47 CFR Part 96
Date of Receipt: 2022-01-29
Date of Test: 2022-03-01 to 2022-03-10
Date of Issue: 2022-03-10

Test Result:

Pass*

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

Eric Lin
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-03-10		Original

Authorized for issue by:				
		Milo Li		
		Milo_Li/Project Engineer		
		Eric Lin		
		Eric Lin/Reviewer		



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Effective (Isotropic) Radiated Power Output Data	47 CFR Part 2; 47 CFR Part 27; 47 CFR Part 96	ANSI C63.26, KDB 971168 D01 v03	§2.1046, §27.50(k)(3), §96.41	Pass
Peak-Average Ratio		ANSI C63.26, KDB 971168 D01 v03	§27.50(k)(4), §96.41	Pass
Bandwidth		ANSI C63.26, KDB 971168 D01 v03	§2.1049(h)	Pass
Band Edge Compliance		ANSI C63.26, KDB 971168 D01 v03	§2.1051, §27.53(n), §96.41	Pass
Spurious emissions at antenna terminals		ANSI C63.26, KDB 971168 D01 v03	§2.1051, §27.53(n), §96.41	Pass
Field strength of spurious radiation		ANSI C63.26, KDB 971168 D01 v03	§2.1051, §27.53(n), §96.41	Pass
Frequency stability		ANSI C63.26, KDB 971168 D01 v03	§2.1055, §27.54	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	Adaptor Model: BY-SKY120200U71L Input: 100-240V~50/60Hz, 0.7A Output: 12.0V-2A
Cable(s):	1.0m LAN Cable
Serial Number of Tested EUT:	RT321X02220700003 (For Conducted Test) RT321X02220700002 (For Radiated Test)
Sample Type:	Mobile device
CBSD Class:	Category A CBSD
Hardware Version:	V1.0
Software Version:	ICB6FW_Codium_CBSD_V1.01
Transmitter Frequency Band:	LTE TDD Band 48/42H/43L
Frequency Range:	LTE TDD Band 42H: 3450-3600MHz (3550-3600MHz covered by part 96), LTE TDD Band 43L: 3600-3700MHz covered by part 96, LTE TDD Band 48: 3550-3700MHz
Modulation Type:	UL: QPSK, 16QAM, 64QAM DL: QPSK, 16QAM, 64QAM
Channel Bandwidth:	Single carrier: 5MHz, 10MHz, 15MHz, 20MHz;
Antenna Type:	PCB Antenna Ant 1: TX & RX Ant 2 & Ant 3 & Ant 4: RX
Antenna Gain:	Refer to Antenna List Table
MIMO Type:	1T4R

Note: Since Band 42 / 43 and Band 48 are transmitted on the same port, the frequencies of Band 42 / 43 falling on part 96 have been covered by the test data of Band 48.

Antenna	LTE Band	Frequency Range (MHz)	Antenna Gain (dBi)			
			Ant 1	Ant 2	Ant 3	Ant 4
SRT321_0738	Band 42H	3450-3550	1.34	0.43	1.83	1.96
	Band 43L	3600-3700	3.31	1.01	1.97	3.33
	Band 48	3550-3700	3.31	1.01	1.97	3.33
SRT321_3438	Band 42H	3450-3550	3.68	3.87	4.43	2.43
	Band 43L	3600-3700	3.50	4.21	4.39	2.80
	Band 48	3550-3700	3.55	4.21	4.39	2.80

Remark:

SRT321_0738 and SRT321_3438 are two different versions of the antenna, because they are the same type of antenna, we choose the SRT321_3438 with higher gain value to do all the tests.



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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	ThinkPad	E430	/

4.3 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	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz) 5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz) 4.5dB (30MHz-1GHz) 5.1dB (1GHz-18GHz) 5.4dB (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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4.4 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.

4.5 Test Facility

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

- **CNAS (No. CNAS L4354)**

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 (Certificate No. 2541.01)**

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

- **FCC (Designation Number: CN1172)**

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

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

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 (Member No.: 1938)**

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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	100781	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Faratron	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
5	Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
6	Vector Signal Generator	R&S	SMW200A	110074	10/12/2021	10/11/2022
7	Radio Communication Test Station	Anritsu	MT8000A	6262012849	09/23/2021	09/22/2022
8	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	09/23/2021	09/22/2022
9	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022
10	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
11	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
12	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
13	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
14	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
15	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
16	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
17	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
18	Conducted Test Cable	/	RF01-RF04	/	04/15/2021	04/14/2022
19	Software	BST	TST-PASS	N/A	N/A	N/A
20	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
21	Thermometer	Anymetre	TH603	CCS007	10/14/2021	10/13/2022
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Com-Power	AL-130R	10160008	04/13/2021	04/12/2023
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/20/2022	02/19/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	9170-515	2021/2/22	2024/2/21
10	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
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



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14	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
15	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
16	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
17	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
18	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
19	Filter (1745 MHz~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
20	Filter (1922 MHz~1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
21	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
22	Filter (1532 MHz~1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
23	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
24	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
25	Software	Faratronic	EZ EMC	N/A	N/A	N/A



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement	§2.1046, §27.50(k)(3), §96.41
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	EIRP ≤ 30dBm (LTE Band 42H) EIRP ≤ 30dBm/10MHz, PSD ≤ 20dBm/MHz (LTE Band 48)

6.1.1 E.U.T. Operation

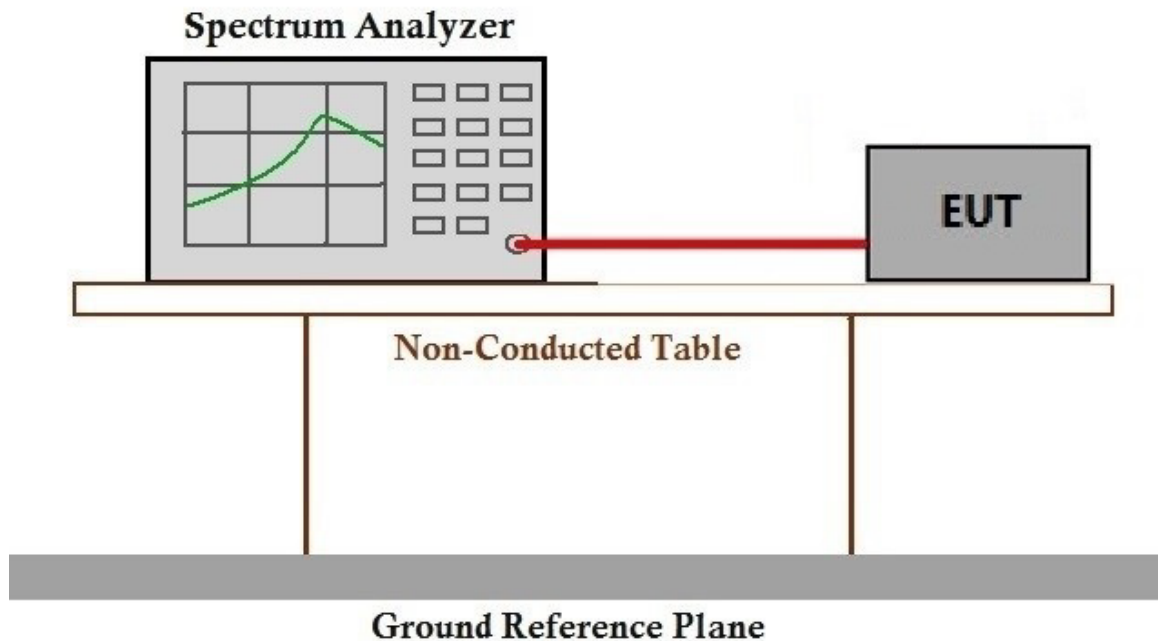
Operating Environment:

Temperature: 20.5 °C Humidity: 52.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00 TX mode_Keep the EUT in transmitting mode (Band 42H)

01 TX mode_Keep the EUT in transmitting mode (Band 48)

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR220100016003



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6.2 Peak-Average Ratio

Test Requirement §27.50(k)(4), §96.41
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ≤13dB

6.2.1 E.U.T. Operation

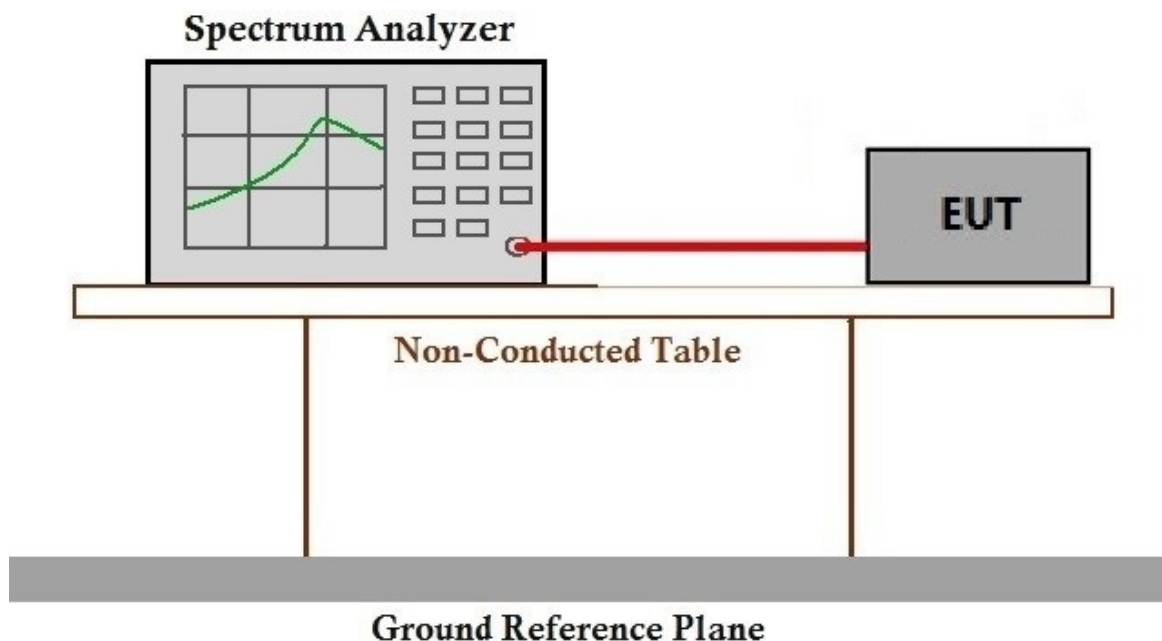
Operating Environment:

Temperature: 20.5 °C Humidity: 52.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00 TX mode_Keep the EUT in transmitting mode (Band 42H)

01 TX mode_Keep the EUT in transmitting mode (Band 48)

6.2.2 Test Setup Diagram



6.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR220100016003



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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

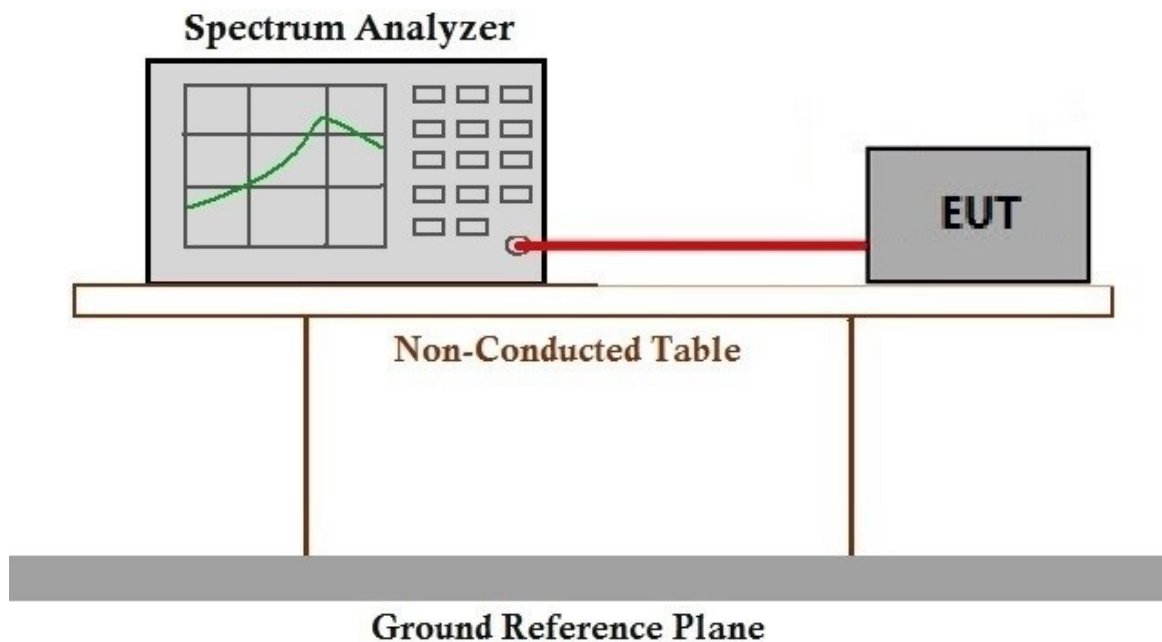
Operating Environment:

Temperature: 20.5 °C Humidity: 52.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00 TX mode_Keep the EUT in transmitting mode (Band 42H)

01 TX mode_Keep the EUT in transmitting mode (Band 48)

6.3.2 Test Setup Diagram



6.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR220100016003



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6.4 Band Edge Compliance

Test Requirement §2.1051, §27.53(n), §96.41
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: For LTE TDD Band 42H:

The conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz

For LTE TDD Band 48:

Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside 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 CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 52.0 % RH Atmospheric Pressure: 1010 mbar
 Test mode: 00 TX mode_Keep the EUT in transmitting mode (Band 42H)
 01 TX mode_Keep the EUT in transmitting mode (Band 48)

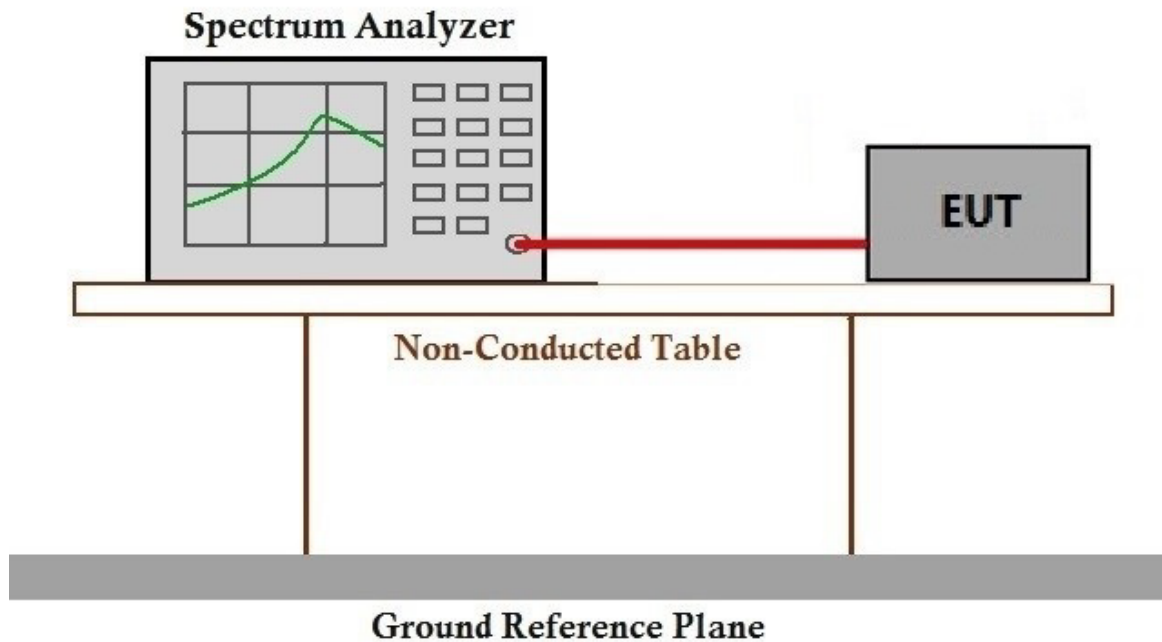


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6.4.2 Test Setup Diagram



6.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR220100016003



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6.5 Spurious emissions at antenna terminals

Test Requirement §2.1051, §27.53(n), §96.41

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

Limit: For LTE TDD Band 42H:

The conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz

For LTE TDD Band 48:

Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside 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 CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 52.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00 TX mode_Keep the EUT in transmitting mode (Band 42H)

01 TX mode_Keep the EUT in transmitting mode (Band 48)

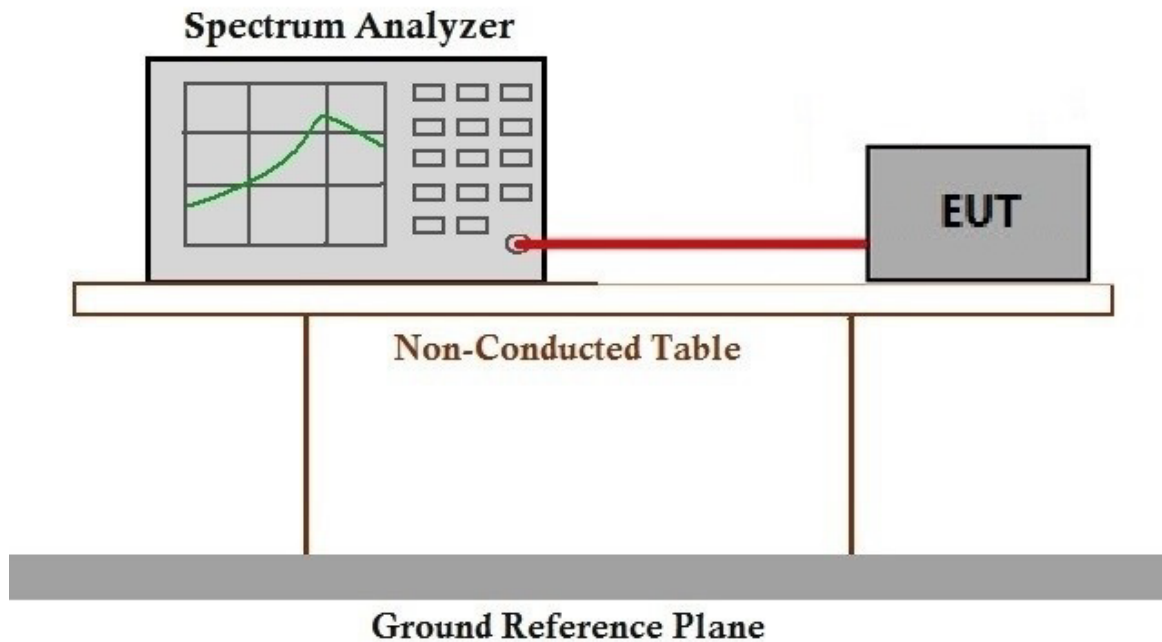


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6.5.2 Test Setup Diagram



6.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR220100016003



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6.6 Field strength of spurious radiation

Test Requirement §2.1051, §27.53(n), §96.41

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

Limit: For LTE TDD Band 42H:

The conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz

For LTE TDD Band 48:

Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside 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 CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 52.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00 TX mode_Keep the EUT in transmitting mode (Band 42H)

01 TX mode_Keep the EUT in transmitting mode (Band 48)

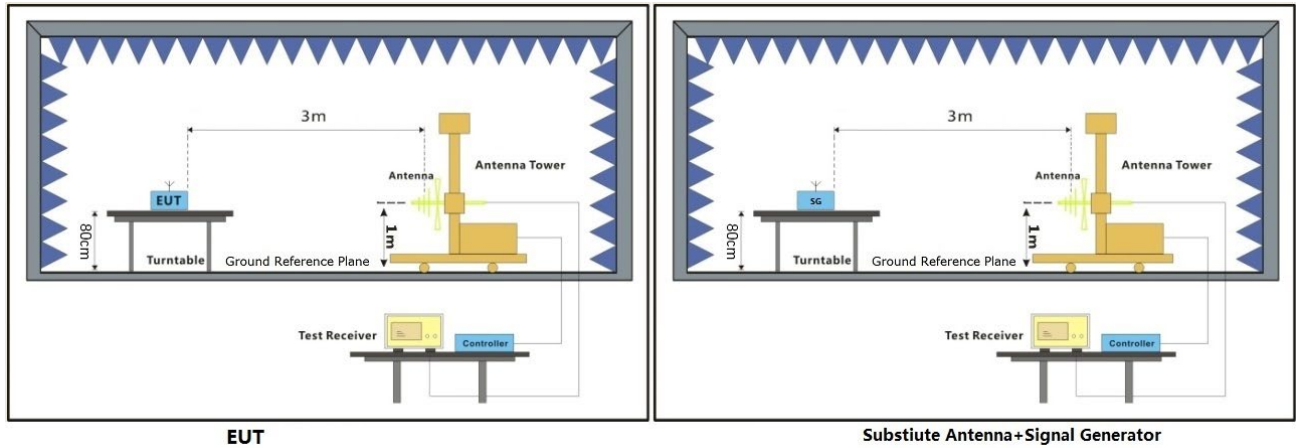


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6.6.2 Test Setup Diagram



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6.6.3 Measurement Procedure and Data

LTE TDD B42H 3450MHz to 3550MHz:

BW_5MHz_1RB@0_Low Channel				
Frequency (MHz)	Polaxis	Spurious Emission Level (dBm)	Limit dBm	Over limit (dB)
141.0	Horizontal	-70.7	-13.0	-57.7
497.9	Horizontal	-73.2	-13.0	-60.2
782.2	Horizontal	-71.1	-13.0	-58.1
6920	Horizontal	-45.2	-13.0	-32.2
10380	Horizontal	-43.2	-13.0	-30.2
13840	Horizontal	-43.1	-13.0	-30.1
150.0	Vertical	-73	-13.0	-60.0
550.6	Vertical	-71.6	-13.0	-58.6
812.5	Vertical	-70.7	-13.0	-57.7
6920	Vertical	-48.8	-13.0	-35.8
10380	Vertical	-43.8	-13.0	-30.8
13840	Vertical	-42.5	-13.0	-29.5

BW_5MHz_1RB@12_Middle Channel				
Frequency (MHz)	Polaxis	Spurious Emission Level (dBm)	Limit dBm	Over limit (dB)
152.3	Horizontal	-72.3	-13.0	-59.3
502.4	Horizontal	-74.7	-13.0	-61.7
801.2	Horizontal	-69.5	-13.0	-56.5
7000	Horizontal	-46.9	-13.0	-33.9
10500	Horizontal	-43.6	-13.0	-30.6
14000	Horizontal	-42.5	-13.0	-29.5
147.9	Vertical	-71.5	-13.0	-58.5
559.9	Vertical	-74.6	-13.0	-61.6
816.0	Vertical	-71.2	-13.0	-58.2
7000	Vertical	-46.8	-13.0	-33.8
10500	Vertical	-44.7	-13.0	-31.7
14000	Vertical	-43.4	-13.0	-30.4



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BW_5MHz_1RB@24_High Channel				
Frequency (MHz)	Polaxis	Spurious Emission Level (dBm)	Limit dBm	Over limit (dB)
142.0	Horizontal	-71.8	-13.0	-58.8
494.5	Horizontal	-73.7	-13.0	-60.7
791.0	Horizontal	-71.3	-13.0	-58.3
7080	Horizontal	-46.6	-13.0	-33.6
10620	Horizontal	-44.6	-13.0	-31.6
14160	Horizontal	-42.9	-13.0	-29.9
140.0	Vertical	-72.4	-13.0	-59.4
544.6	Vertical	-73	-13.0	-60.0
804.6	Vertical	-71	-13.0	-58.0
7080	Vertical	-46	-13.0	-33.0
10620	Vertical	-44.4	-13.0	-31.4
14160	Vertical	-42.2	-13.0	-29.2



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LTE TDD B48 3550MHz to 3700MHz:

BW_5MHz_1RB@0_Low Channel				
Frequency (MHz)	Polaxis	Spurious Emission Level (dBm)	Limit dBm	Over limit (dB)
145.3	Horizontal	-72.9	-40.0	-32.9
486.2	Horizontal	-74.0	-40.0	-34.0
793.1	Horizontal	-71.0	-40.0	-31.0
7120	Horizontal	-45.2	-40.0	-5.2
10680	Horizontal	-44.1	-40.0	-4.1
14240	Horizontal	-42.3	-40.0	-2.3
149.0	Vertical	-70.8	-40.0	-30.8
556.8	Vertical	-74.7	-40.0	-34.7
820.8	Vertical	-71.0	-40.0	-31.0
7120	Vertical	-47.4	-40.0	-7.4
10680	Vertical	-44.4	-40.0	-4.4
14240	Vertical	-42.2	-40.0	-2.2

BW_5MHz_1RB@12_Middle Channel				
Frequency (MHz)	Polaxis	Spurious Emission Level (dBm)	Limit dBm	Over limit (dB)
154.3	Horizontal	-72.9	-40.0	-32.9
487.0	Horizontal	-72.1	-40.0	-32.1
789.6	Horizontal	-71.8	-40.0	-31.8
7260	Horizontal	-46.6	-40.0	-6.6
10890	Horizontal	-42.7	-40.0	-2.7
14520	Horizontal	-42.9	-40.0	-2.9
149.0	Vertical	-74.1	-40.0	-34.1
552.3	Vertical	-71.8	-40.0	-31.8
817.2	Vertical	-72.2	-40.0	-32.2
7260	Vertical	-47.7	-40.0	-7.7
10890	Vertical	-43.0	-40.0	-3.0
14520	Vertical	-42.1	-40.0	-2.1



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BW_5MHz_1RB@24_High Channel				
Frequency (MHz)	Polaxis	Spurious Emission Level (dBm)	Limit dBm	Over limit (dB)
153.1	Horizontal	-74.1	-40.0	-34.1
486.2	Horizontal	-73.9	-40.0	-33.9
786.4	Horizontal	-72.2	-40.0	-32.2
7400	Horizontal	-45.8	-40.0	-5.8
11100	Horizontal	-44.5	-40.0	-4.5
14800	Horizontal	-43.8	-40.0	-3.8
157.4	Vertical	-71.6	-40.0	-31.6
540.6	Vertical	-75.2	-40.0	-35.2
814.3	Vertical	-69.6	-40.0	-29.6
7400	Vertical	-45.9	-40.0	-5.9
11100	Vertical	-42.9	-40.0	-2.9
14800	Vertical	-42.6	-40.0	-2.6

Remark:

All modulation modes and RB configurations were evaluated, and only presented the test results of the worst modulation mode QPSK and 1 RB configurations in the report

No emissions were detected within 20dB below the limit for the uplink direction.

Measured were performed in the lowest, middle and highest frequency for the uplink.

The spectrum was searched from 30MHz to 18GHz or 10th Harmonic for uplink.



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6.7 Frequency stability

Test Requirement §2.1055, §27.54
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\pm 2.5\text{ppm}$.
Fundamental emission stays within authorized frequency block

6.7.1 E.U.T. Operation

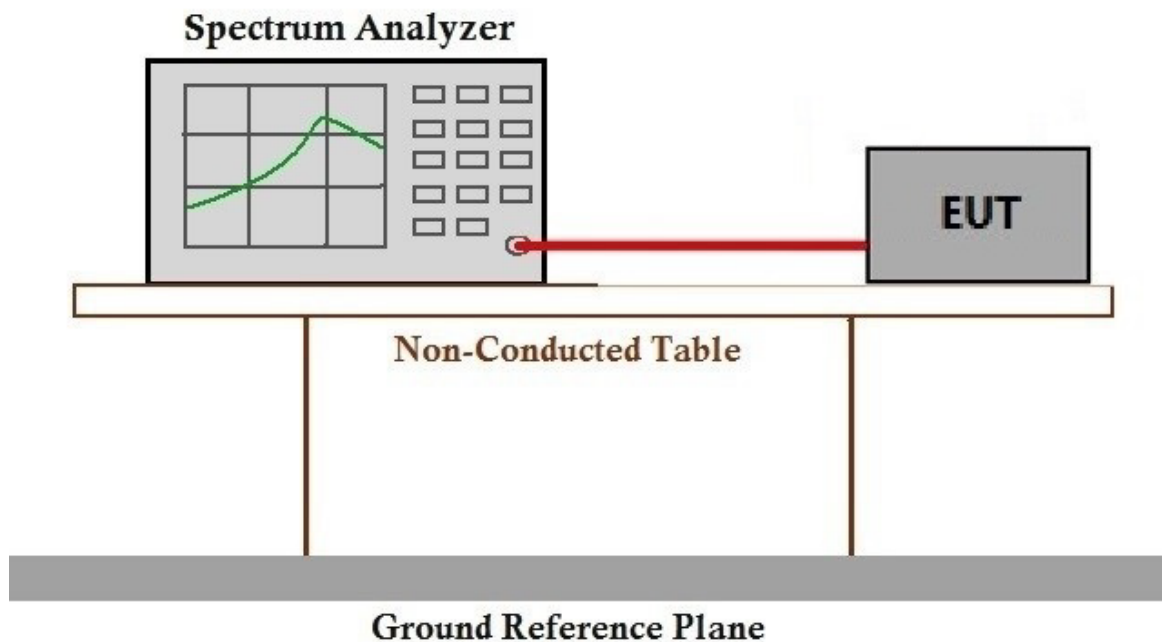
Operating Environment:

Temperature: 20.5 °C Humidity: 52.0 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00 TX mode_Keep the EUT in transmitting mode (Band 42H)

01 TX mode_Keep the EUT in transmitting mode (Band 48)

6.7.2 Test Setup Diagram



6.7.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR220100016003



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7 Test Setup Photo

Refer to the < Test Setup photos-FCC>.

8 EUT Constructional Details (EUT Photos)

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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