

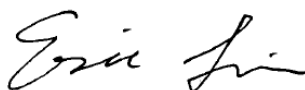
TEST REPORT

Application No.: KSCR2209001710AT
FCC ID: 2A8RBAN958NA
Applicant: Fibocom Auto Inc.
Address of Applicant: 13th Floor, Building A, Building 6, International Innovation Valley,Xili Street, Shenzhen
Manufacturer: Fibocom Auto Inc.
Address of Manufacturer: 13th Floor, Building A, Building 6, International Innovation Valley,Xili Street, Shenzhen
Factory: Fibocom Auto Inc.
Address of Factory: 13th Floor, Building A, Building 6, International Innovation Valley,Xili Street, Shenzhen
Equipment Under Test (EUT):
EUT Name: 5G Module
Model No.: AN958-NA
Trade Mark: Fibocom
Standard(s) : 47 CFR Part 2
47 CFR Part 96 subpart E
Date of Receipt: 2022-09-08
Date of Test: 2022-10-13 to 2022-12-19
Date of Issue: 2023-02-23

Test Result:	Pass
---------------------	-------------

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

This report supersedes our previous report KSCR220900171001, issued on 2022-12-19,which is hereby deemed null void.



Eric Lin
Laboratory Manager



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900171001V01

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Revision Record			
Version	Description	Date	Remark
00	Original	2022-12-19	/
V01	Modified address information	2023-02-23	Amendment

Authorized for issue by:			
		Damon Zhou	
		Damon_Zhou/Project Engineer	
		Eric Lin	
		Eric Lin /Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	§2.1046 §96.41(b)	EIRP≤ 23dBm/10MHz	PASS
Peak-Average Ratio	§96.41(g)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§96.41(e)	Refer to clause 6.4	PASS
Spurious emissions at antenna terminals	§96.41(e)	Refer to clause 6.5	PASS
Field strength of spurious radiation	§2.1051 §96.41(e)	Refer to clause 6.6	PASS
Frequency stability	§2.1055	≤ ±2.5ppm.	PASS



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Compliance Certification Services (Kunshan) Inc.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.8V
Hardware Version:	AN958-MAQC-NA-00
Software Version:	AN958-GA-NA_R2.1_V.B.1.20
Operation Frequency Band:	n48
EN_DC Band	2A_n48A, 66A_n48A
Modulation Type:	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256 QAM
SCS Information:	30KHz
Antenna Type:	External Antenna
Antenna Gain:	5.3dBi(Provide by Manufacturer)

4.2 Test Frequency

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
NR FDD n48	20	3560.01	3624.99	3690.00
	40	3570.00	3624.99	3679.98

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TL	-40°C
	TN	+20°C
	TH	+85°C
Voltage:	VL	3.4 V
	VN	3.8 V
	VH	4.2 V

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



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4.4 Description of Support Units

Item No.	Mode No.	Description	Manufacturer
N/A	N/A	N/A	N/A

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.4 \times 10^{-8}$
2	Duty cycle	$\pm 0.3\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.8\text{dB}$
5	RF power density	$\pm 0.4\text{dB}$
6	Conducted Spurious emissions	$\pm 2.7\text{dB}$
7	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (Below 1GHz)
		$\pm 4.4\text{dB}$ (Above 1GHz)
8	Temperature test	$\pm 1^\circ\text{C}$
9	Humidity test	$\pm 3\%$
10	Supply voltages	$\pm 1.5\%$
11	Time	$\pm 3\%$



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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:

• A2LA

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

• FCC

Compliance Certification Services (Kunshan) 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

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

NO	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/22/2022	08/21/2023
2	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	08/22/2022	08/21/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
9	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/01/2021	03/31/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/22/2022	03/21/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021 11/14/2022	11/13/2022 11/13/2023
13	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
14	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	08/22/2022	08/21/2023
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
16	Software	Faratronic	EZ EMC-v 3A1	/	N/A	N/A



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Output Power Data

Test Requirement: §2.1046; §96.41(b)
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: EIRP ≤ 23dBm/10MHz

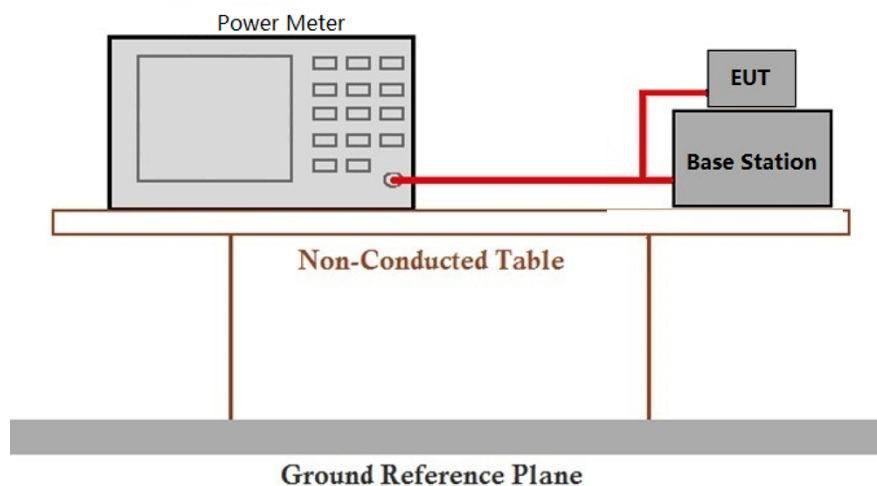
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

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

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix A for KSCR220900171001



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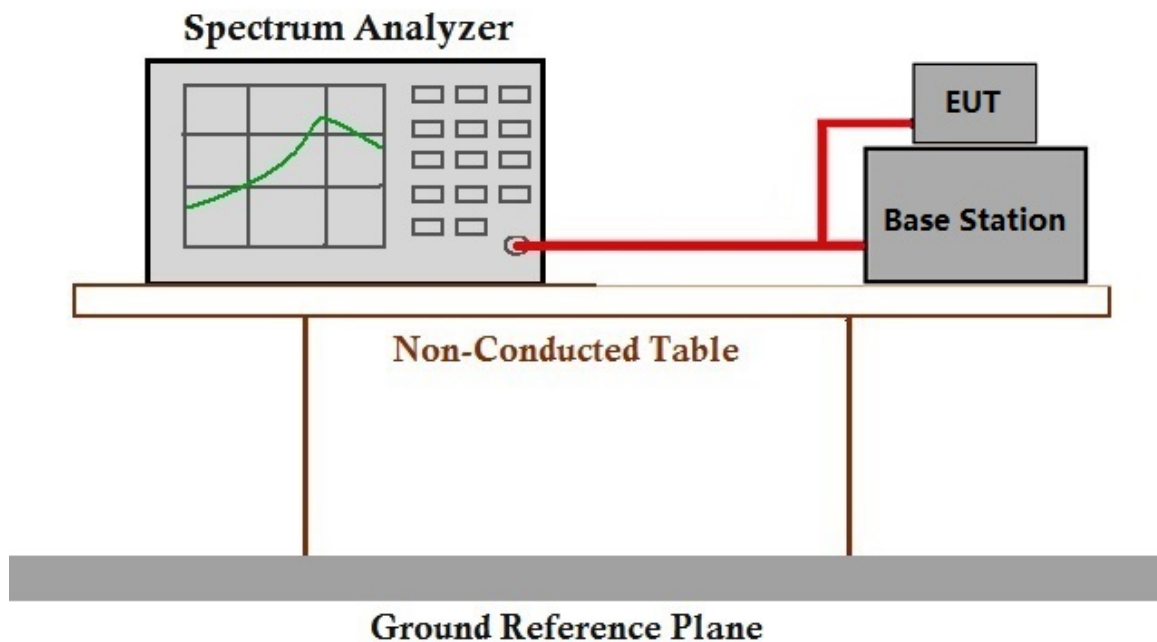
6.2 Peak-Average Ratio

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

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix A for KSCR220900171001



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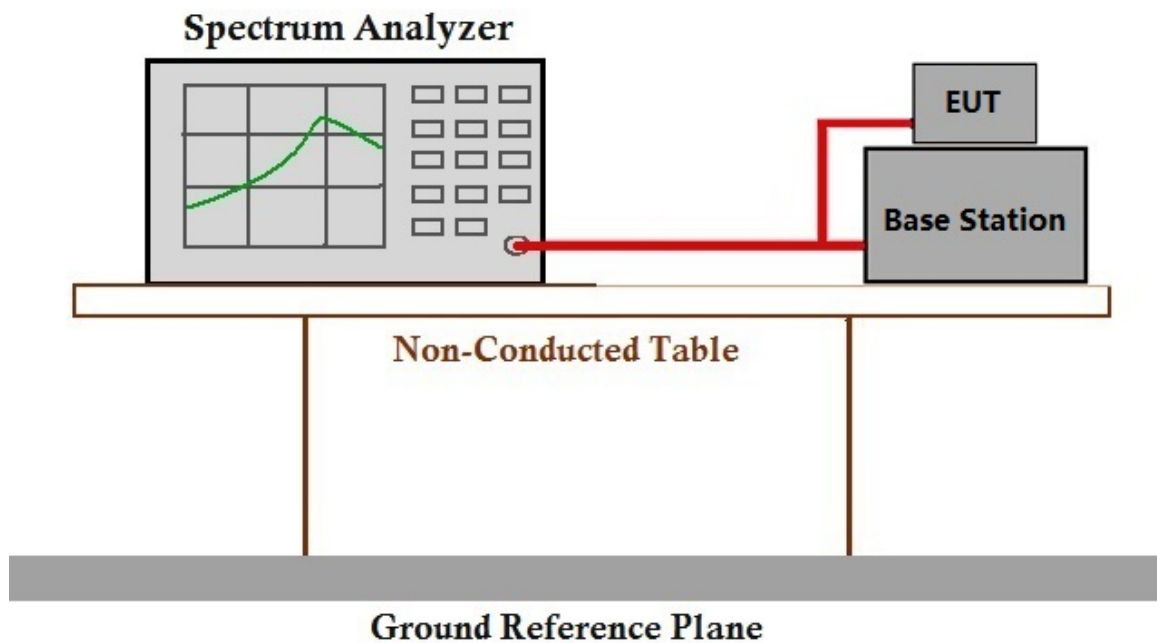
6.3 Bandwidth

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: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix A for KSCR220900171001



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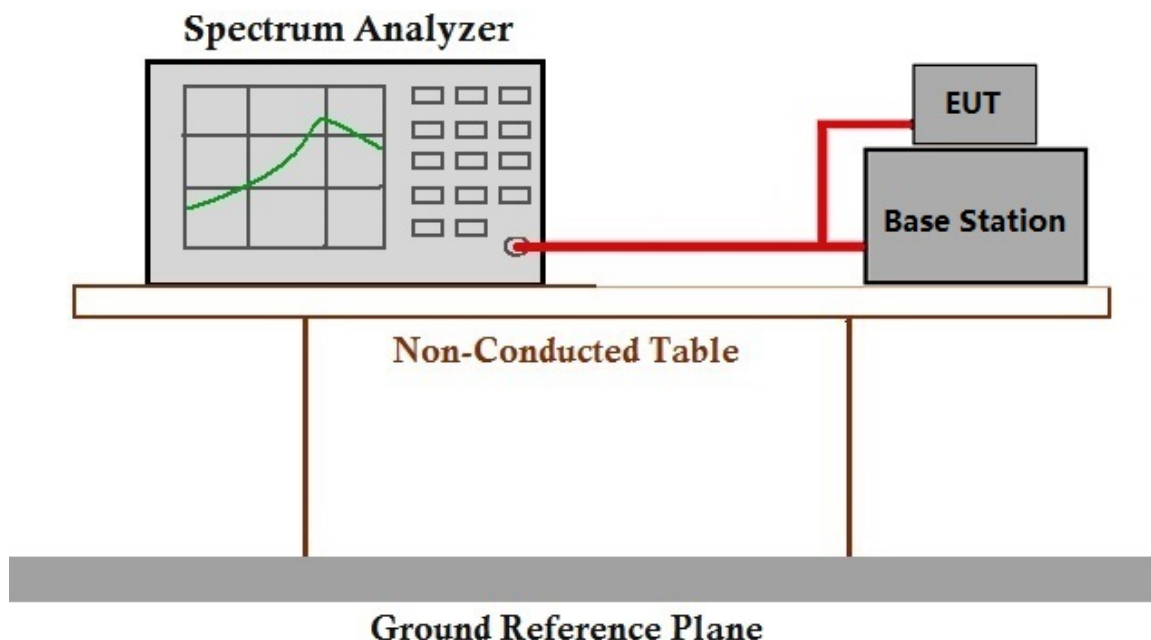
6.4 Band Edge Compliance

Test Requirement: §2.1051, §96.41(e)
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: Emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz)
 At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz
 Emissions below 3530MHz or above 3720 MHz shall not exceed -40dBm/MHz

6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix A for KSCR220900171001



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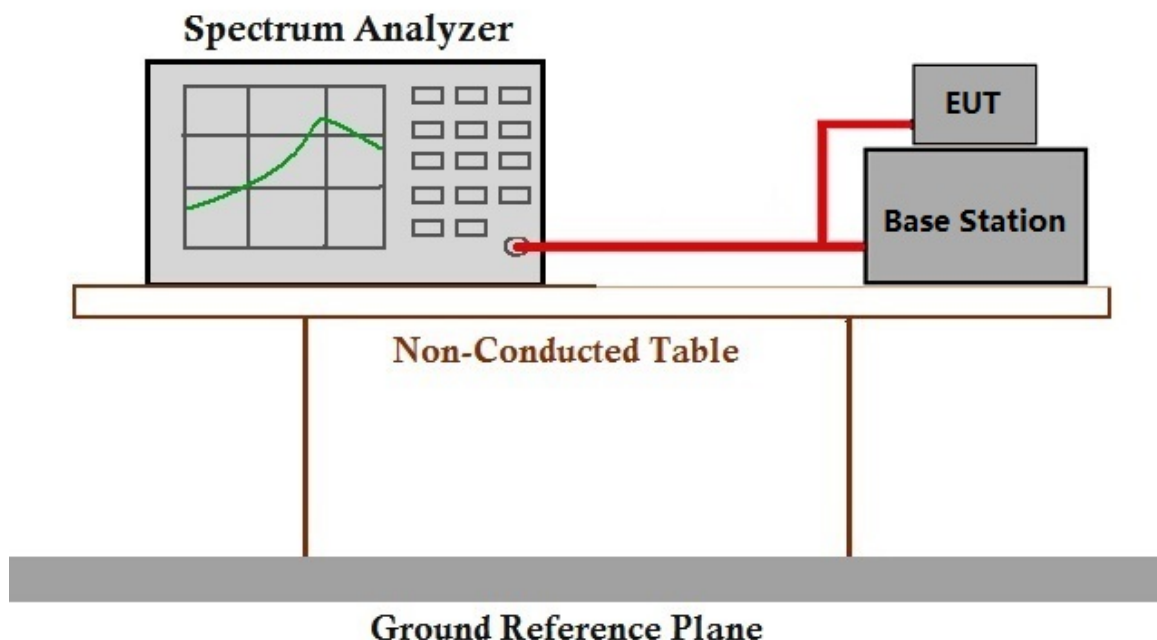
6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §96.41(e)
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: Emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz)
 At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz
 Emissions below 3530MHz or above 3720 MHz shall not exceed -40dBm/MHz

6.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

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6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §96.41(e)
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: Emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz)
 At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz
 Emissions below 3530MHz or above 3720 MHz shall not exceed -40dBm/MHz

6.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 18.5 °C Humidity: 39.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode Tx mode, Keep the EUT in transmitting mode.

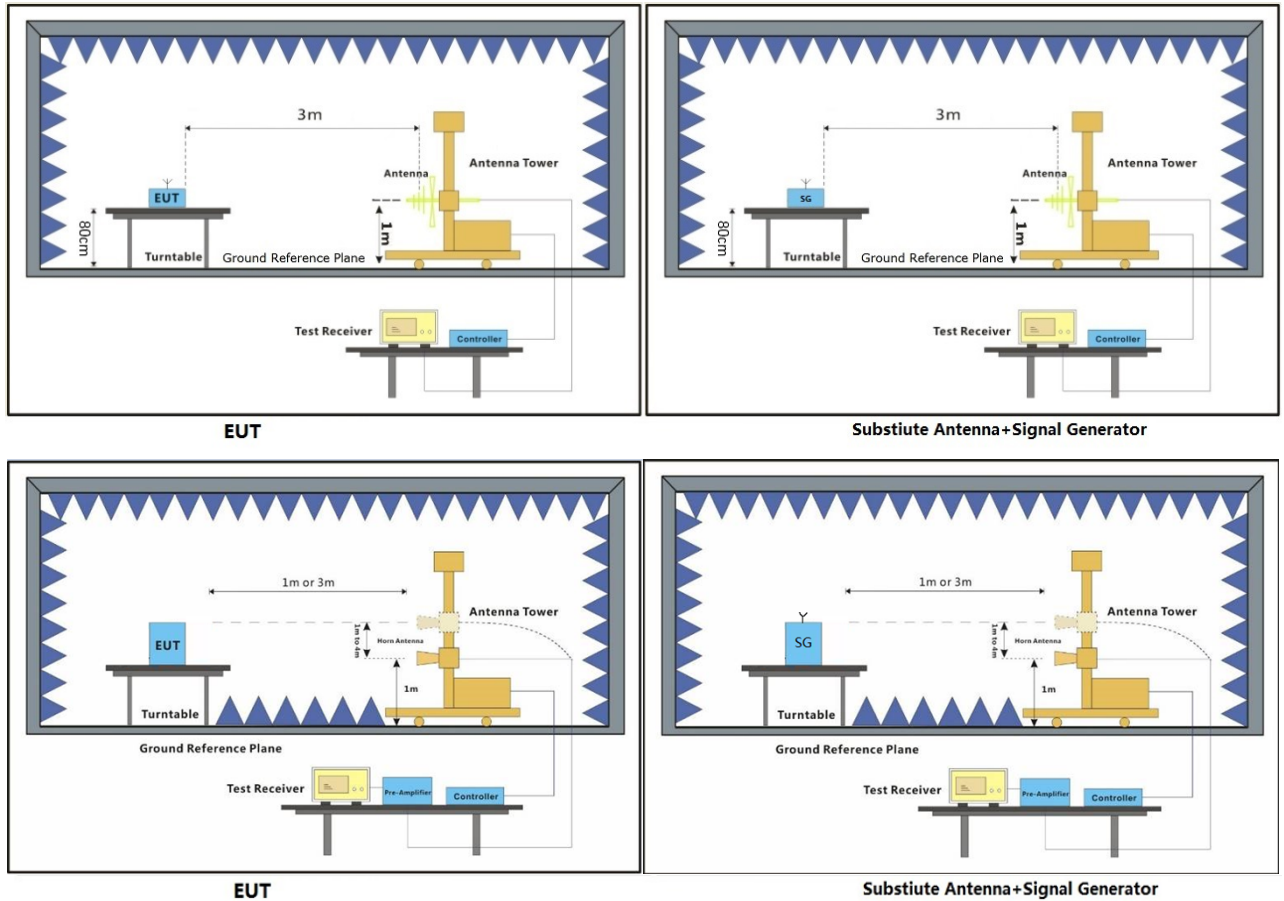


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6.6.2 Test Setup Diagram



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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 then 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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n48_ Low Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
8206.7917	50.35	-40.19	37.73	-47.37	-40.00	7.37	263	1	Horizontal
9209.2083	48.73	-38.24	38.58	-46.19	-40.00	6.19	254	191	Horizontal
11914.5833	45.84	-34.98	38.69	-45.72	-40.00	5.72	174	310	Horizontal
13646.2917	45.80	-34.63	39.99	-44.10	-40.00	4.10	182	50	Horizontal
15364.5833	44.50	-34.04	38.73	-46.08	-40.00	6.08	263	0	Horizontal
16945.8333	43.69	-31.88	38.56	-44.89	-40.00	4.89	295	1	Horizontal

n48_ Low Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7643.2917	51.06	-41.26	36.79	-48.67	-40.00	8.67	102	143	Vertical
9309.8333	50.47	-38.32	38.57	-44.54	-40.00	4.54	163	143	Vertical
13052.125	45.92	-34.74	39.63	-44.45	-40.00	4.45	255	357	Vertical
14556.7083	44.87	-34.54	39.64	-45.28	-40.00	5.28	145	349	Vertical
16398.625	44.71	-32.20	38.18	-44.57	-40.00	4.57	206	339	Vertical
17052.2083	43.36	-32.16	38.81	-45.25	-40.00	5.25	268	92	Vertical

n48_ Mid Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
8743.4583	50.04	-39.12	38.32	-46.02	-40.00	6.02	203	80	Horizontal
10662.0417	45.71	-36.00	39.23	-46.33	-40.00	6.33	265	210	Horizontal
12592.125	45.89	-34.57	39.19	-44.75	-40.00	4.75	241	357	Horizontal
14507.8333	45.42	-35.11	39.69	-45.26	-40.00	5.26	174	130	Horizontal
16263.5	44.58	-32.59	38.08	-45.19	-40.00	5.19	263	89	Horizontal
17696.2083	41.70	-31.08	41.38	-43.26	-40.00	3.26	295	348	Horizontal



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n48_Mid Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
8267.1667	50.49	-40.29	37.79	-47.26	-40.00	7.26	201	76	Vertical
9326.125	49.39	-38.20	38.57	-45.50	-40.00	5.50	142	318	Vertical
10646.7083	45.83	-36.03	39.21	-46.25	-40.00	6.25	263	67	Vertical
13067.4583	45.84	-34.70	39.64	-44.48	-40.00	4.48	295	67	Vertical
15056.9583	44.73	-34.13	39.13	-45.54	-40.00	5.54	284	0	Vertical
17016.75	42.90	-31.84	38.67	-45.53	-40.00	5.53	174	18	Vertical

n48_High Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7706.5417	50.85	-41.25	36.91	-48.75	-40.00	8.75	201	59	Horizontal
9150.75	49.04	-38.46	38.58	-46.09	-40.00	6.09	142	20	Horizontal
11154.625	45.59	-35.11	39.45	-45.34	-40.00	5.34	263	29	Horizontal
13651.0833	45.81	-34.66	39.99	-44.11	-40.00	4.11	265	29	Horizontal
16365.0833	45.86	-32.45	38.16	-43.70	-40.00	3.70	284	318	Horizontal
17460.4583	42.37	-31.84	40.44	-44.29	-40.00	4.29	176	198	Horizontal

n48_High Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7713.25	50.80	-41.23	36.93	-48.76	-40.00	8.76	201	189	Vertical
8371.625	49.72	-39.87	37.91	-47.51	-40.00	7.51	142	150	Vertical
9320.375	48.90	-38.24	38.57	-46.03	-40.00	6.03	263	211	Vertical
11172.8333	45.21	-35.09	39.43	-45.72	-40.00	5.72	265	230	Vertical
13589.75	45.15	-34.36	39.95	-44.52	-40.00	4.52	284	269	Vertical
17638.7083	41.24	-31.56	41.15	-44.43	-40.00	4.43	175	6	Vertical



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EN_DC_2A_n48A _ Low Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
8071.6667	48.23	-40.35	37.58	-49.80	-40.00	9.80	263	234	Horizontal
9289.7083	47.17	-38.37	38.57	-47.89	-40.00	7.89	254	113	Horizontal
11229.375	43.69	-35.11	39.37	-47.31	-40.00	7.31	142	33	Horizontal
13665.4583	42.80	-34.72	40.00	-47.18	-40.00	7.18	296	264	Horizontal
15070.375	42.68	-34.07	39.11	-47.54	-40.00	7.54	201	360	Horizontal
17291.7917	40.87	-31.79	39.77	-46.41	-40.00	6.41	188	314	Horizontal

EN_DC_2A_n48A _ Low Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7667.25	49.78	-41.27	36.83	-49.91	-40.00	9.91	162	360	Vertical
9283	47.41	-38.36	38.57	-47.64	-40.00	7.64	185	3	Vertical
11231.2917	42.97	-35.11	39.37	-48.03	-40.00	8.03	169	345	Vertical
13211.2083	42.95	-34.76	39.73	-47.35	-40.00	7.35	165	266	Vertical
15056	42.61	-34.14	39.13	-47.66	-40.00	7.66	196	204	Vertical
17066.5833	42.37	-32.29	38.87	-46.31	-40.00	6.31	115	359	Vertical

EN_DC_2A_n48A _ Mid Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7767.875	49.58	-41.01	37.04	-49.65	-40.00	9.65	263	3	Horizontal
9784.2083	45.71	-37.10	38.52	-48.13	-40.00	8.13	254	235	Horizontal
11200.625	43.63	-35.07	39.40	-47.30	-40.00	7.30	142	104	Horizontal
13693.25	43.25	-34.86	40.02	-46.85	-40.00	6.85	201	296	Horizontal
14944.8333	42.87	-34.27	39.26	-47.41	-40.00	7.41	263	225	Horizontal
17291.7917	41.24	-31.79	39.77	-46.04	-40.00	6.04	244	23	Horizontal



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EN_DC_2A_n48A _ Mid Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7177.5417	51.09	-42.15	36.31	-50.02	-40.00	10.02	163	64	Vertical
8685.9583	47.67	-39.30	38.25	-48.64	-40.00	8.64	102	308	Vertical
11183.375	42.97	-35.08	39.42	-47.96	-40.00	7.96	126	13	Vertical
13244.75	43.11	-34.89	39.75	-47.30	-40.00	7.30	125	155	Vertical
14431.1667	42.42	-34.83	39.77	-47.90	-40.00	7.90	196	174	Vertical
16970.75	41.94	-31.79	38.58	-46.53	-40.00	6.53	103	23	Vertical

EN_DC_2A_n48A _ High Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7665.3333	49.55	-41.27	36.83	-50.15	-40.00	10.15	251	353	Horizontal
9297.375	47.43	-38.39	38.57	-47.65	-40.00	7.65	142	360	Horizontal
10603.5833	45.47	-36.10	39.16	-46.73	-40.00	6.73	263	44	Horizontal
13106.75	43.37	-34.63	39.66	-46.85	-40.00	6.85	211	236	Horizontal
15047.375	42.76	-34.18	39.14	-47.54	-40.00	7.54	142	155	Horizontal
17786.2917	41.39	-30.90	41.75	-43.03	-40.00	3.03	296	360	Horizontal

EN_DC_2A_n48A _ High Channel									
Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
7790.875	49.26	-40.92	37.08	-49.83	-40.00	9.83	142	255	Vertical
9373.0833	46.98	-37.85	38.56	-47.57	-40.00	7.57	265	275	Vertical
11211.1667	42.61	-35.08	39.39	-48.35	-40.00	8.35	201	42	Vertical
13748.8333	43.42	-35.11	40.05	-46.91	-40.00	6.91	142	84	Vertical
15012.875	42.48	-34.34	39.18	-47.94	-40.00	7.94	285	336	Vertical
17476.75	40.84	-31.86	40.51	-45.77	-40.00	5.77	263	123	Vertical



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EN_DC_66A_n48A _ Low Channel										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7764.0417	49.65	-41.02	37.03	-49.61	-40.00	9.61	241	226	Horizontal
2	9417.1667	47.49	-37.73	38.56	-46.94	-40.00	6.94	142	94	Horizontal
3	11214.0417	43.22	-35.09	39.39	-47.74	-40.00	7.74	265	12	Horizontal
4	13142.2083	42.77	-34.66	39.69	-47.47	-40.00	7.47	284	103	Horizontal
5	14428.2917	42.13	-34.81	39.77	-48.17	-40.00	8.17	142	336	Horizontal
6	16600.8333	42.71	-32.44	38.32	-46.66	-40.00	6.66	263	360	Horizontal

EN_DC_66A_n48A _ Low Channel										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7648.0833	49.80	-41.26	36.80	-49.92	-40.00	9.92	142	286	Vertical
2	9282.0417	47.00	-38.36	38.57	-48.05	-40.00	8.05	265	360	Vertical
3	11217.875	42.62	-35.09	39.38	-48.35	-40.00	8.35	241	275	Vertical
4	12643.875	43.85	-34.89	39.24	-47.06	-40.00	7.06	106	41	Vertical
5	15036.8333	42.36	-34.23	39.15	-47.97	-40.00	7.97	196	359	Vertical
6	17601.3333	40.49	-31.88	41.01	-45.64	-40.00	5.64	368	21	Vertical

EN_DC_66A_n48A _ Mid Channel										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7764.0417	49.53	-41.02	37.03	-49.73	-40.00	9.73	263	256	Horizontal
2	9244.6667	47.79	-38.30	38.58	-47.19	-40.00	7.19	254	135	Horizontal
3	11229.375	43.02	-35.11	39.37	-47.98	-40.00	7.98	254	276	Horizontal
4	13239.9583	43.36	-34.88	39.74	-47.03	-40.00	7.03	185	194	Horizontal
5	15296.5417	42.87	-33.87	38.81	-47.44	-40.00	7.44	263	317	Horizontal
6	17032.0833	42.46	-31.98	38.73	-46.05	-40.00	6.05	108	22	Horizontal



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EN_DC_66A_n48A _ Mid Channel										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7771.7083	50.04	-40.99	37.04	-49.17	-40.00	9.17	296	3	Vertical
2	9257.125	47.37	-38.32	38.57	-47.63	-40.00	7.63	241	276	Vertical
3	11206.375	43.31	-35.08	39.39	-47.63	-40.00	7.63	174	327	Vertical
4	13583.0417	43.24	-34.34	39.95	-46.41	-40.00	6.41	142	174	Vertical
5	15274.5	42.24	-33.79	38.84	-47.97	-40.00	7.97	265	316	Vertical
6	17791.0833	40.38	-30.90	41.76	-44.01	-40.00	4.01	281	285	Vertical

EN_DC_66A_n48A _ High Channel										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7534.0417	50.95	-41.47	36.57	-49.21	-40.00	9.21	263	358	Horizontal
2	9287.7917	48.19	-38.37	38.57	-46.87	-40.00	6.87	254	327	Horizontal
3	11471.8333	42.88	-34.95	39.13	-48.20	-40.00	8.20	142	360	Horizontal
4	13502.5417	42.37	-33.98	39.90	-46.97	-40.00	6.97	284	267	Horizontal
5	15877.2917	43.15	-33.64	38.06	-47.69	-40.00	7.69	172	360	Horizontal
6	17651.1667	40.03	-31.46	41.20	-45.49	-40.00	5.49	263	358	Horizontal

EN_DC_66A_n48A _ High Channel										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7782.25	49.49	-40.95	37.06	-49.66	-40.00	9.66	263	316	Vertical
2	9411.4167	46.46	-37.70	38.56	-47.94	-40.00	7.94	254	307	Vertical
3	11072.2083	43.18	-35.31	39.53	-47.86	-40.00	7.86	144	3	Vertical
4	13019.5417	42.87	-34.82	39.61	-47.60	-40.00	7.60	252	143	Vertical
5	14406.25	42.53	-34.69	39.79	-47.63	-40.00	7.63	263	225	Vertical
6	16942.9583	41.95	-31.89	38.56	-46.64	-40.00	6.64	294	360	Vertical

Remark:

Pretest was performed at the EUT in required band,channel,modulation,bandwidth, and only the data of the worst case showed in the test report.



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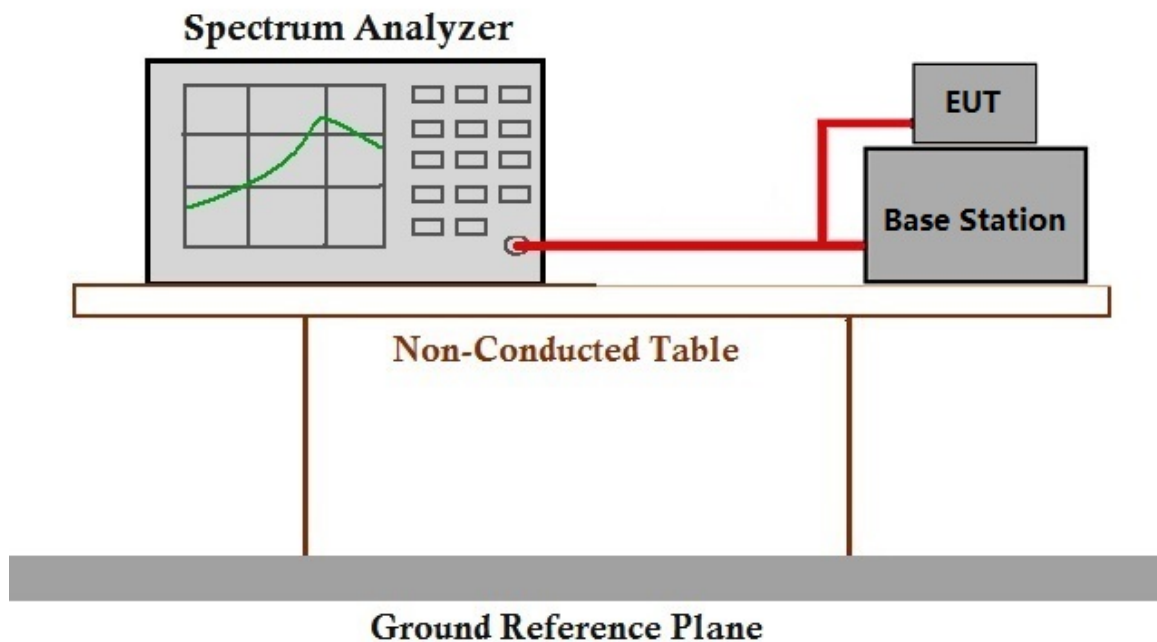
6.7 Frequency stability

Test Requirement: §2.1055
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: $\leq \pm 2.5\text{ppm}$.

6.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix A for KSCR220900171001



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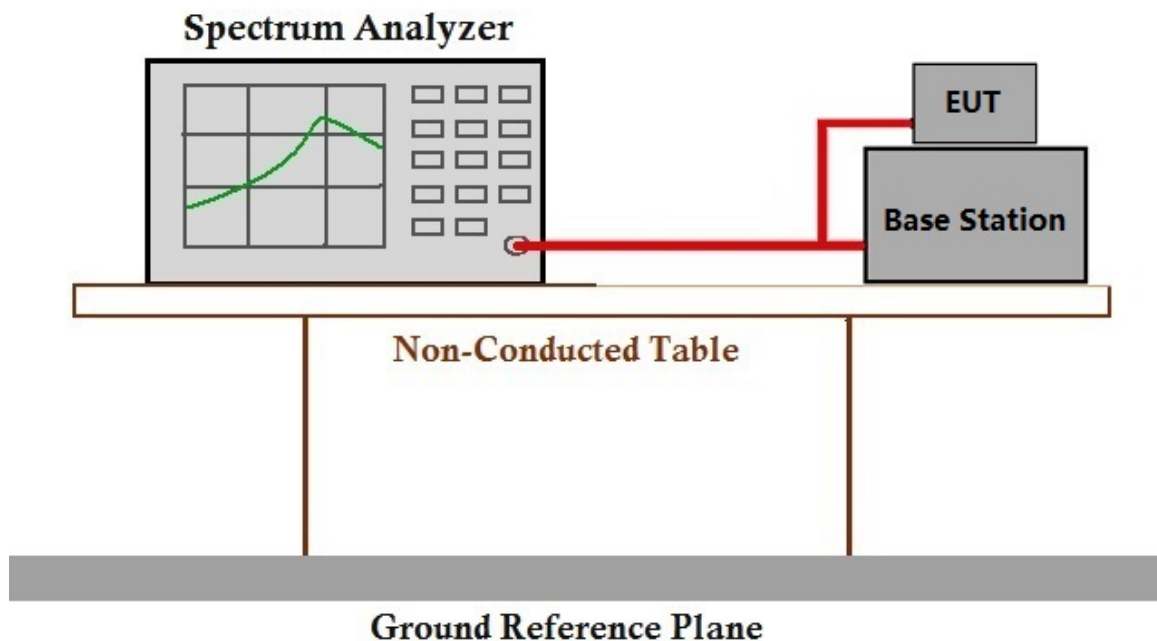
6.8 Modulation Characteristics

Test Requirement: §2.1047
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: Digital modulation

6.8.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

Please refer to Appendix A for KSCR220900171001



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7 Test Setup Photographs

Refer to Appendix - Test Setup Photo for KSCR2209001710AT

- End of the Report -



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