

SZEMC-TRF-01 Rev. A/0 Aug01.2022

Report No.: SZCR220900339402

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TEST REPORT

Application No.: SZCR2209003394AT Applicant: Askey Computer Corp

Address of Applicant: 10F, No. 119, JIANKANG RD. ZHONGHE DIST. NEW TAIPEI CITY, 23585

Taiwan

Manufacturer: Askey Computer Corp

Address of Manufacturer: 10F, No. 119, JIANKANG RD. ZHONGHE DIST. NEW TAIPEI CITY, 23585

Taiwan

Factory: Askey Technology (Jiangsu) Ltd.

Address of Factory: No. 1388, Jiao Tong Road, WuJiang Economic-Technological Development

Area, Jiangsu Province, P.R.C.

Equipment Under Test (EUT):

EUT Name: 5G USB Dongle Model No.: NDQ1300-SA Trade Mark: ASKEY, Dynalink FCC ID: H8NNDQ1300-1 47 CFR Part 2 Standard(s): 47 CFR Part 96

47 CFR Part 27

2022-09-30 Date of Receipt:

2023-05-10 to 2023-07-03 Date of Test:

2023-07-11 Date of Issue:

Test Result: Pass

EMC Laboratory Manager

Ceny. Ku



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



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2023-07-11		Original				

Authorized for issue by:		
	Benson Woma	
	Benson Wang/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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Test Summary 2

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data & Maximum Power Spectral Density	§2.1046 §96.41(b) §27.50(j) §27.50(k)	EIRP≤ 23dBm/10MHz (n48) EIRP≤ 1W n77(3450-3550MHz & 3700-3980); n78(3450-3550MHz & 3700-3800)	PASS
Peak-Average Ratio	§96.41(g) §27.50(j) §27.50(k)	≤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 §96.41(e) §27.53(I) §27.53(n)	Refer to clause 6.4	PASS
Spurious emissions at antenna terminals	§2.1051 §96.41(e) §27.53(I) §27.53(n)	Refer to clause 6.5	PASS
Field strength of spurious radiation	§2.1051 §96.41(e) §27.53(I) §27.53(n)	Refer to clause 6.6	PASS
Frequency stability	§2.1055 §27.54	≤ ±2.5ppm.	PASS



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General Information

4.1 Details of E.U.T.

Power supply:	Powered by Type	-c port					
Cable:	Type-c cable: 8cr	Type-c cable: 8cm unshielded/shielded					
	NR Band	Uplink	(MHz)		Downlink (MHz)		
	3450-3550		-3550	3450-3550		0	
04.5	77	3700-	-3980		3700-398	0	
SA Frequency Band:	70	3450-	-3550		3450-355	0	
	78	3700-	-3800		3700-380	0	
	48	3550-	-3700		3550-370	0	
3GPP Release Version:	15						
SA UL MIMO Information:	n77, n78, n48						
Type of Modulation:	n77, n78: DFT-s-OFDM: QF CP-OFDM: QPSk						
	n48: DFT-s-OFDM: л /2-BPSK/QPSK\64QAM\256 QAM CP-OFDM: QPSK\64QAM\256 QAM						
EUT type:	End User Device						
SCS Information:	30KHz						
Power Class	Class 3						
Antenna Function:	Band		ANT2	ANT3	ANT4	ANT5	
	n77		TRX	RX	RX	TRX	
	n78		TRX	RX	RX	TRX	
	n48 TRX RX TRX						
MIMO Information:	DL: 4*4 UL: 2*2 ANT 2 only operate in the MIMO ANT 5 can operate in SISO and MIMO.						
Antenna Type:	PIFA						
Antenna Gain:	ANT2: n77/n78: 2.99dBi; n48: 0.5dBi ANT 5: n77/n78: 3.82dBi; n48: 0.5dBi (Provided by manufacturer)						

(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	RF Channel			
	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
	10	3555.0	3624.99	3694.98	
n48	20	3560.01	3624.99	3690.0	
	40	3570.0	3624.99	3679.98	

	Nominal	RF Channel			
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
N77a	20	3710.01	3840	3969.99	
	30	3715.02	3840	3964.98	
	40	3720	3840	3960	
	60	3730.02	3840	3949.98	
	80	3740.01	3840	3939.99	
	100	3750	3840	3930	



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	Nominal	RF Channel			
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
	20	3710.01	3750	3789.99	
	30	3715.02	3750	3784.98	
	40	3720	3750	3780	
	50	3725.01	3750	3774.99	
n78a	60	3730.02	3750	3769.98	
	70	3735	3750	3765	
	80	3740.01	3750	3759.99	
	90	3745.02	3750	3754.98	
	100	3750	3750	3750	

	Nominal	RF Channel			
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
	20	3460.02	3500.01	3540	
	30	3465	3500.01	3534.99	
n77E	40	3470.01	3500.01	3529.98	
	60	3480	3500.01	3519.99	
	80	3490.02	3500.01	3510	



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100	3500.01	3500.01	3499.98

	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	20	3460.02	3500.01	3540
	30	3465	3500.01	3534.99
	40	3470.01	3500.01	3529.98
	50	3725.02	3500.01	3525
n78E	60	3480	3500.01	3519.99
	70	3485.01	3500.01	3514.98
	80	3490.02	3500.01	3510
	90	3495	3500.01	3504.99
	100	3500.01	3500.01	3499.98

Remark: All test items were performed Pre-scan test in n77E and n78E and found and only recorded the worst data of n78E in the report.



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4.3 Test Environment

Environment Parameter	Selected Values During Tests					
Relative Humidity		52%				
Atmospheric Pressure:	1020Pa					
	TL	-30°C				
Temperature:	TN	+20°C				
	TH	+50°C				
	VL	AC 102 V				
Voltage:	VN	AC 120 V				
	VH	AC 138V				

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

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10 ⁻⁸
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB
5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Padiated Sourious emission test	± 3.1dB (Below 1GHz)
1	Radiated Spurious emission test	± 4.4dB (Above 1GHz)
8	Temperature test	± 1°C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.8 Deviation from Standards

4.9 Abnormalities from Standard Conditions

None



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5 **Equipment List**

RF test system					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Shielding Room	SAEMC	MSR733	SEM001-09	2022-05-14	2025-05-13
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-17	2023-03-20	2024-03-14
Mobile Communications DC Source	Agilent	66319D	SEM011-12	2023-05-06	2024-05-05
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2023-04-06	2024-04-05
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2023-04-06	2024-04-05
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2023-04-06	2024-04-05
Universal Radio Communication Tester	Anritsu	MT8000A	SEM010-10	2023-03-22	2024-03-21
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-04-06	2024-04-05
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07

RE in Chamber						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01	
EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2023-04-06	2024-04-05	
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2021-09-17	2023-09-16	
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23	
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021-09-26	2024-09-25	
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2022-09-15	2023-09-14	
Microwave System Amplifier(0.5-26.5GHz)	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20	
Pre-amplifier (26- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-21	2024-03-20	



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Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022-08-07	2025-08-06
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2022-07-12	2023-07-11
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-06	2022-07-08	2023-07-07

RE in Chamber					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2023-06-25	2024-06-24
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2022-07-12	2023-07-11
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-20	2024-03-19



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Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Output Power & Maximum Power Spectral Density

§2.1046, §96.41(b), §27.50(j), §27.50(k) Test Requirement:

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: EIRP≤23dBm/10MHz (n48)

EIRP≤1W n77(3450-3550MHz & 3700-3980); n78(3450-3550MHz & 3700-

PSD: N/A (n48)

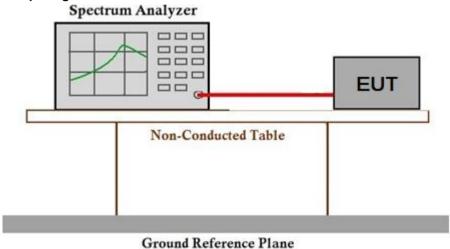
6.1.1 E.U.T. Operation

Operating Environment:

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

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix for Effective (Isotropic) Radiated Output Power Data.



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6.2 Peak-Average Ratio

§96.41(g), §27.50(j), §27.50(k) Test Requirement:

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤13dB

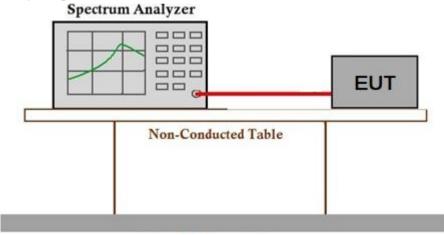
6.2.1 E.U.T. Operation

Operating Environment:

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

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



Ground Reference Plane

6.2.3 Measurement Data

Please refer to Appendix for Peak-Average Ratio.



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6.3 Bandwidth

Test Requirement: §2.1049(h)

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: **OBW: No limit** EBW: No limit

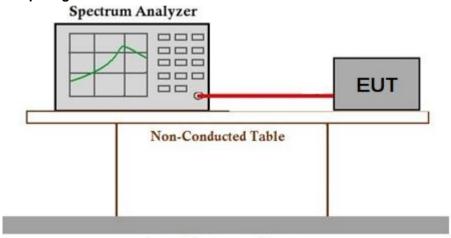
6.3.1 E.U.T. Operation

Operating Environment:

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

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Data

Please refer to Appendix for Bandwidth.



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6.4 Band Edge Compliance

Test Requirement: \$2.1051, §96.41(e), §27.53(l), §27.53(n)
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: For n48:

- 1) The conducted power of any CBSD emission outside the fundamental emission bandwidth (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.
- 2) 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.

For n77(3450-3550MHz & 3700-3980); n78(3450-3550MHz & 3700-3800);

3) ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.

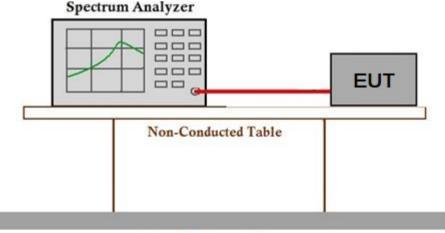
6.4.1 E.U.T. Operation

Operating Environment:

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

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram







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6.4.3 Measurement Data

Please refer to Appendix for Spurious emissions at antenna terminals & Band Edge.

6.5 Spurious emissions at antenna terminals

§2.1051, §96.41(e), §27.53(I), §27.53(n) Test Requirement: Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: For n48:

- The conducted power of any CBSD emission outside the fundamental emission bandwidth (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.
- 2) 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.

For n77(3450-3550MHz & 3700-3980); n78(3450-3550MHz & 3700-3800):

3) ≤ -13dBm

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.



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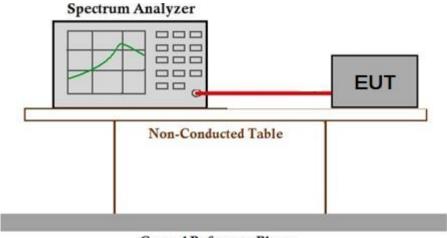


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6.5.2 Test Setup Diagram



Ground Reference Plane

6.5.3 Measurement Data

Please refer to Appendix for Spurious emissions at antenna terminals & Band Edge.



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6.6 Field strength of spurious radiation

§2.1051, §96.41(e), §27.53(I), §27.53(n) Test Requirement: Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: For n48:

- 1) Emission outside the fundamental emission bandwidth (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 emission shall not exceed -25 dBm/MHz.
- 2) Emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

For n77(3450-3550MHz & 3700-3980); n78(3450-3550MHz & 3700-3800):

3) ≤ -13dBm

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 18.5 °C 39.5 % RH Atmospheric Pressure: 1020 mbar Humidity:

Test mode 01: Tx mode, Keep the EUT in transmitting mode.



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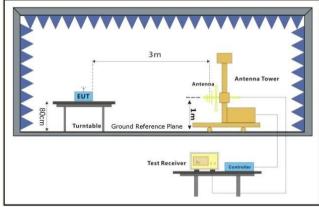


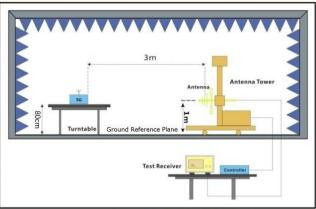
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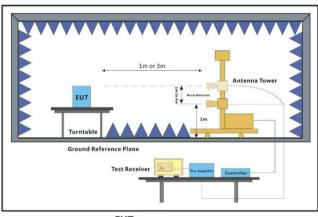
6.6.2 Test Setup Diagram

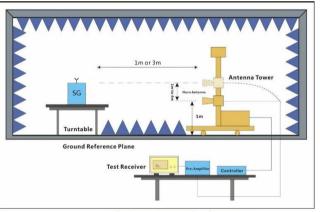




EUT

Substiute Antenna+Signal Generator





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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	N48-Low channel, Modulation: π /2-BPSK, Bandwidth: 10MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
6601.02	-45.18	-40	-5.18	-48.73	7.7	11.25	Horizontal	Pass			
9901.53	-43.08	-40	-3.08	-45.11	11.49	13.52	Horizontal	Pass			
13202.04	-35.01	-40	4.99	-36.12	12.49	13.6	Horizontal	Pass			
6601.02	-45.48	-40	-5.48	-49.03	7.7	11.25	Vertical	Pass			
9901.53	-43.19	-40	-3.19	-45.22	11.49	13.52	Vertical	Pass			
13202.04	-43.01	-40	-3.01	-44.12	12.49	13.6	Vertical	Pass			

	N48-Middle channel, Modulation: π /2-BPSK, Bandwidth: 10MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
7491	-43.09	-40	-3.09	-46.63	8.19	11.73	Horizontal	Pass			
11236.5	-35.53	-40	4.47	-37.82	11.36	13.65	Horizontal	Pass			
14982	-32.17	-40	7.83	-35.07	11.4	14.3	Horizontal	Pass			
7491	-43.22	-40	-3.22	-46.76	8.19	11.73	Vertical	Pass			
11236.5	-35.94	-40	4.06	-38.23	11.36	13.65	Vertical	Pass			
14982	-31.91	-40	8.09	-34.81	11.4	14.3	Vertical	Pass			

N48-High channel, Modulation: π/2-BPSK, Bandwidth: 10MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
8380.98	-43.45	-40	-3.45	-46.7	9.43	12.68	Horizontal	Pass		
12571.47	-35.94	-40	4.06	-36.93	12.45	13.44	Horizontal	Pass		
16761.96	-29.38	-40	10.62	-28.19	14.69	13.5	Horizontal	Pass		
8380.98	-44.56	-40	-4.56	-47.81	9.43	12.68	Vertical	Pass		
12571.47	-34.97	-40	5.03	-35.96	12.45	13.44	Vertical	Pass		
16761.96	-29.67	-40	10.33	-28.48	14.69	13.5	Vertical	Pass		

Note: All modes have been tested and we found π /2-BPSK test mode has the worst test result. Only record the worst test result.



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Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
6605.04	-45.03	-13	-32.03	-48.58	7.7	11.25	Horizontal	Pass			
9907.56	-41.23	-13	-28.23	-43.26	11.49	13.52	Horizontal	Pass			
13210.08	-35.55	-13	-22.55	-36.66	12.49	13.6	Horizontal	Pass			
6605.04	-44.85	-13	-31.85	-48.4	7.7	11.25	Vertical	Pass			
9907.56	-40.84	-13	-27.84	-42.87	11.49	13.52	Vertical	Pass			
13210.08	-35.25	-13	-22.25	-36.36	12.49	13.6	Vertical	Pass			

	N77a-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0												
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
7455	-40.59	-13	-27.59	-44.13	8.19	11.73	Horizontal	Pass					
11182.5	-36.18	-13	-23.18	-38.47	11.36	13.65	Horizontal	Pass					
14910	-31.91	-13	-18.91	-34.81	11.4	14.3	Horizontal	Pass					
7455	-40.28	-13	-27.28	-43.82	8.19	11.73	Vertical	Pass					
11182.5	-35.75	-13	-22.75	-38.04	11.36	13.65	Vertical	Pass					
14910	-31.23	-13	-18.23	-34.13	11.4	14.3	Vertical	Pass					

	N77a-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0												
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
8304.96	-40.66	-13	-27.66	-43.91	9.43	12.68	Horizontal	Pass					
12457.44	-35.79	-13	-22.79	-37.59	11.6	13.4	Horizontal	Pass					
16609.92	-29.23	-13	-16.23	-28.04	14.69	13.5	Horizontal	Pass					
8304.96	-40.45	-13	-27.45	-43.7	9.43	12.68	Vertical	Pass					
12457.44	-35.53	-13	-22.53	-37.33	11.6	13.4	Vertical	Pass					
16609.92	-28.89	-13	-15.89	-27.7	14.69	13.5	Vertical	Pass					



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	N78a-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0												
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
6610.02	-45.22	-13	-32.22	-48.77	7.7	11.25	Horizontal	Pass					
9915.03	-38.73	-13	-25.73	-40.76	11.49	13.52	Horizontal	Pass					
13220.04	-35.28	-13	-22.28	-36.39	12.49	13.6	Horizontal	Pass					
6610.02	-45.21	-13	-32.21	-48.76	7.7	11.25	Vertical	Pass					
9915.03	-38.86	-13	-25.86	-40.89	11.49	13.52	Vertical	Pass					
13220.04	-35.13	-13	-22.13	-36.24	12.49	13.6	Vertical	Pass					

	N78a-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0												
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
7410	-40.07	-13	-27.07	-43.61	8.19	11.73	Horizontal	Pass					
11115	-35.15	-13	-22.15	-37.44	11.36	13.65	Horizontal	Pass					
14820	-29.92	-13	-16.92	-32.82	11.4	14.3	Horizontal	Pass					
7410	-40.4	-13	-27.4	-43.94	8.19	11.73	Vertical	Pass					
11115	-35.53	-13	-22.53	-37.82	11.36	13.65	Vertical	Pass					
14820	-28.52	-13	-15.52	-31.42	11.4	14.3	Vertical	Pass					

	N78a-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0												
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
8209.98	-40.84	-13	-27.84	-44.09	9.43	12.68	Horizontal	Pass					
12314.97	-35.78	-13	-22.78	-37.58	11.6	13.4	Horizontal	Pass					
16419.96	-30.25	-13	-17.25	-30.59	13.52	13.86	Horizontal	Pass					
8209.98	-41.11	-13	-28.11	-44.36	9.43	12.68	Vertical	Pass					
12314.97	-35.72	-13	-22.72	-37.52	11.6	13.4	Vertical	Pass					
16419.96	-30.39	-13	-17.39	-30.73	13.52	13.86	Vertical	Pass					



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	N78E-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0												
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
6601.02	-45.04	-13	-32.04	-48.59	7.7	11.25	Horizontal	Pass					
9901.53	-41.17	-13	-28.17	-43.2	11.49	13.52	Horizontal	Pass					
13202.04	-33.86	-13	-20.86	-34.97	12.49	13.6	Horizontal	Pass					
6601.02	-44.61	-13	-31.61	-48.16	7.7	11.25	Vertical	Pass					
9901.53	-40.8	-13	-27.8	-42.83	11.49	13.52	Vertical	Pass					
13202.04	-32.71	-13	-19.71	-33.82	12.49	13.6	Vertical	Pass					

	N78E-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0											
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
7090.98	-42.38	-13	-29.38	-45.92	8.19	11.73	Horizontal	Pass				
10636.47	-37.31	-13	-24.31	-39.73	11.06	13.48	Horizontal	Pass				
14181.96	-33.15	-13	-20.15	-36.16	11.48	14.49	Horizontal	Pass				
7090.98	-42.26	-13	-29.26	-45.8	8.19	11.73	Vertical	Pass				
10636.47	-36.87	-13	-23.87	-39.29	11.06	13.48	Vertical	Pass				
14181.96	-33.5	-13	-20.5	-36.51	11.48	14.49	Vertical	Pass				

	N78E-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0												
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
7581	-42.32	-13	-29.32	-46.15	8.43	12.26	Horizontal	Pass					
11371.5	-36.75	-13	-23.75	-39.04	11.36	13.65	Horizontal	Pass					
15162	-31.09	-13	-18.09	-33.04	12.38	14.33	Horizontal	Pass					
7581	-41.48	-13	-28.48	-45.31	8.43	12.26	Vertical	Pass					
11371.5	-36.12	-13	-23.12	-38.41	11.36	13.65	Vertical	Pass					
15162	-32.2	-13	-19.2	-34.15	12.38	14.33	Vertical	Pass					

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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6.7 Frequency stability

§2.1055, §27.54 Test Requirement:

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: \leq \pm 2.5ppm.

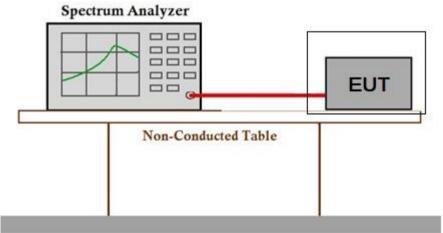
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



Ground Reference Plane

6.7.3 Measurement Data

Please refer to Appendix for Frequency stability.



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6.8 Modulation Characteristics

Test Requirement: **§2.1047**

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: Digital modulation

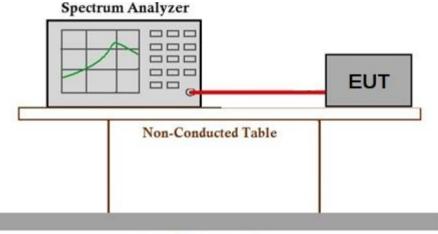
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



Ground Reference Plane

6.8.3 Measurement Data

Pass, it's a digital modulation device.



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7 **Test Setup Photo**

Refer to Appendix - Setup Photos for SZCR2209003394AT

EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for SZCR2209003394AT

- End of the Report -



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