Report No.: AiTSZ-250519024FW6



TEST REPORT

Product Name : Rugged feature phone

Brand Name: ioutdoor

Model : L181

Series Model : N/A

FCC ID : 2BKL6-L181

Applicant : Shenzhen Tianlong Century TechnologyDevelopment Co.,Ltd.

3F, 5F, Industrial Building, No.1, Quanxinyuan Industrial Zone,

Address : Tongsheng Community, Dalang Street, Longhua District,

Shenzhen

Manufacturer : Shenzhen Tianlong Century TechnologyDevelopment Co.,Ltd.

3F, 5F, Industrial Building, No.1, Quanxinyuan Industrial Zone,

Address : Tongsheng Community, Dalang Street, Longhua District,

Shenzhen

FCC CFR Title 47 Part 2, Part 22H, Part 24E, Part 27, Part 90

Standard(s) : ANSI C63.26:2015

KDB 971168 D01

Date of Receipt: May 19, 2025

Date of Test : May 20, 2025~ June 04, 2025

Issued Date : June 05, 2025

Issued By: Guangdong Asia Hongke Test Technology Limited

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Reviewed by: Leon.vi Approved by

Sean She

Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Guangdong Asia Hongke Test Technology Limited. If there is a need to alter or revise this document, the right belongs to Guangdong Asia Hongke Test Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.



Report Revise Record

Report Version		Issued Date	Notes	
M1		June 05, 2025	Initial Release	



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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

FCC Part 22: PRIVATE LAND MOBILE RADIO SERVICES.

FCC Part 24: PUBLIC MOBILE SERVICES

Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

FCC Part 90: PRIVATE LAND MOBILE RADIO SERVICES

FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS

<u>ANSI C63.26:2015:</u> American National Standard of procedures for compliance testing of transmitters used in licensed radio services.

<u>ANSI C63.10-2013</u> Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

KDB971168 D01:v03r01 MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2 Test Summary

Band2

Test Item	FCC Rule No.	Requirements	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 2.1046, Part 24.232		
Peak-Average Ratio	Part 2.1046, Part 24.232	Limit≤13 dB	Pass
Bandwidth	Part 2.1049 Part 24.238	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	Part 2.1051, ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		Pass
Spurious Emission at Antenna Terminals	Part 2.1051, Part 24.238	≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Pass
Field Strength of Spurious Radiation	Part 2.1053, Part 24.238	≤ -13 dBm/1 MHz.	Pass
Frequency Stability	Part 2.1055, Part 24.235	≤ ± 2.5 ppm.	Pass

Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

Band5/Band26 Higher band (824MHz-849)

Test Item	FCC Rule No.	Requirements	Verdict (Note1)
Effective(Isotropic) Radiated Power Output Data	Part 2.1046, 22.913(a)	ERP ≤ 3W	Pass
Peak-Average Ratio		Limit≤13 dB	Pass
Bandwidth	Part 2.1049	OBW:No limit. EBW:No limit.	Pass
Band Edges Compliance	Part 2.1051, 22.917(a)	≤ -13 dBm/1%*EBW,in1MHz bands immediately outside and adjacent to the frequency block.	Pass
Spurious Emission at Antenna Terminals	Part 2.1051, 22.917(a)	≤ -13 dBm/1MHz,from9 kHz to 10 th harmonics but out sideathorized operating frequency ranges.	Pass
Field Strength of Spurious Radiation	Part 2.1051, 22.917(a)	≤ -13 dBm/1MHz.	Pass
Frequency Stability	Part 2.1055, 22.355	≤ ±2.5ppm.	Pass

Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".





Band26 Lower band (814MHz-824MHz)

Test Item	FCC Rule No.	Requirements	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	90.635(b)	FCC: ERP ≤100Watt	Pass
Peak-Average Ratio	Part 2.1046, 22.913(d)	Limit≤13 dB	Pass
Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	Part 2.1051, Part 90.691	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.	Pass
Spurious Emission at Antenna Terminals	Part 2.1051, Part 90.691	< 43+10log10(P[Watts])	Pass
Field Strength of Spurious Radiation	Part 2.1053, Part 90.691	< 43+10log10(P[Watts])	Pass
Frequency Stability	Part 2.1055 Part 90.213	≤ ±2.5ppm	Pass

Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

Band7/Band 41

Test Item	FCC Rule No.	Requirements	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	Part 2.1046 27.50(h)	EIRP≤2W	Pass
Peak-Average Ratio	Part 27.50(a)	Limit≤13 dB	Pass
Bandwidth	Part 2.1049	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	Part 2.1051, 27.53(m4)	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.	Pass
Spurious Emission at Antenna Terminals	Part 2.1051, 27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz	Pass
Field Strength of Spurious Radiation	Part 2.1053, 27.53(m)	Channel Edge -25 dBm/ 1 MHz 1 MHz 9 kHz	Pass
Frequency Stability	Part 2.1055, 27.54	Within authorized bands of operation/frequency block.	Pass

Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

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1.3 Test Facility

Test Laboratory:

Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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

FCC-Registration No.: 251906 Designation Number: CN1376

Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165

The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01

Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the Guangdong Asia Hongke Test Technology Limited's quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Asia Hongke laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	9KHz~30MHz ±1.20 dB	(1)
Radiated Emission	9KHz~30MHz ±3.10dB	(1)
Radiated Emission	30MHz ~1GHz \pm 3.75dB	(1)
Radiated Emission	1GHz~18GHz ±3.88 dB	(1)
Radiated Emission	18GHz-40GHz \pm 3.88dB	(1)
RF power, conducted	30MHz~6GHz \pm 0.16dB	(1)
RF power density, conducted	\pm 0.24dB	(1)
Spurious emissions, conducted	\pm 0.21dB	(1)
Temperature	±1°C	(1)
Humidity	±3%	(1)
DC and low frequency voltages	±1.5%	(1)
Time	±2%	(1)
Duty cycle	±2%	(1)

The report uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%



2 GENERAL INFORMATION

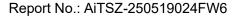
2.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2 General Description of EUT

Product Name: Rugged feature phone						
Model/Type reference:	L181					
Serial Model:	N/A					
Power Supply:	DC 5V from adapter DC 3.7V from Rechargeable Li-ion battery					
Adapter information:	Model: HJ-0502000-US Input: 100-240V AC50/60Hz 0.3A Output: 5.0V=2.0A 10.0W					
Hardware Version:	MH20_V1.0-2					
Software Version:	N/A					
Sample(s) Status:	AiTSZ-250519024-1(Normal sample) AiTSZ-250519024-2(Engineer sample)					
LTE:						
Operation Band:	FDD-LTE: Band 2/5/7/26a/26b TDD-LTE: Band 41					
Support Bandwidth:	Band 2: ☑1.4MHz,☑3MHz,☑5MHz,☑10MHz,☑15MHz,☑20MHz Band 5: ☑1.4MHz,☑3MHz,☑5MHz,☑10MHz Band 7: ☑5MHz,☑10MHz,☑15MHz,☑20MHz Band 26a: ☑1.4MHz,☑3MHz,☑5MHz,☑10MHz Band 26b: ☑1.4MHz,☑3MHz,☑5MHz,☑10MHz,☑15MHz Band 41: ☑5MHz,☑10MHz,☑15MHz,☑20MHz					
Frequency Range:	Band 2:uplink 1850MHz to 1910MHz; downlink 1930MHz to 1990MHz Band 5:uplink 824MHz to 849MHz; downlink 869MHz to 894MHz Band 7:uplink 2500MHz to 2570MHz; downlink 2620MHz to 2690MHz Band 26a:uplink 814MHz to 824MHz; downlink 859MHz to 869MHz Band 26b:uplink 824MHz to 849MHz; downlink 869MHz to 894MHz Band 41:uplink 2555MHz to 2655MHz;downlink 2555MHz to 2655MHz					
Power Class:	Power Class 3					
Modulation Type:	QPSK, 16QAM					
Antenna type:	PIFA Antenna					
Antenna gain:	LTE Band 2: 1.0 dBi; LTE Band 5: -0.7dBi; LTE Band 7: 1.5 dBi, LTE Band 26: -2.4dBi;LTE Band 41: 1.4dBi					
	Remark: The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.					





2.3 Description of Test Modes and Test Frequency

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest middle and highest frequency of channel were selected to perform the test, then shown on this report.

Test Frequency:

Band 2

Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
Low Range	5	18625	1852.5	625	1932.5
Low Range	10	18650	1855	650	1935
	15	18675	1857.5	675	1937.5
	20	18700	1860	700	1940
Mid Range	1.4/3/5/10/15/20	18900	1880	900	1960
	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
Ligh Dangs	5	19175	1907.5	1175	1987.5
High Range	10	19150	1905	1150	1985
	15	19125	1902.5	1125	1982.5
	20	19100	1900	1100	1980

Band 5

Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
	1.4	20407	824.7	2407	869.7
Low Dongs	3	20415	825.5	2415	870.5
Low Range	5	20425	826.5	2425	871.5
	10	20450	829	2450	874
Mid Range	1.4/3/5/10	20525	836.5	2525	881.5
	1.4	20643	848.3	2643	893.3
High Range	3	20635	847.5	2635	892.5
	5	20625	846.5	2625	891.5
	10	20700	835	2700	880

Band 7

Test Frequency ID	Bandwidth	NUL	Frequency of Uplink	NDL	Frequency of
	[MHz]		[MHz]		Downlink [MHz]
	5	20775	2502.5	2775	2622.5
Low Pongo	10	20800	2505	2800	2625
Low Range	15	20825	2507.5	2825	2627.5
	20	20850	2510	2850	2630
Mid Range	5/10/15/20	21100	2535	3100	2655
	5	21425	2567.5	3425	2687.5
High Dongs	10	21400	2565	3400	2685
High Range	15	21375	2562.5	3375	2682.5
	20	21350	2560	3350	2680



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Band 26a

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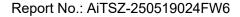
Test Frequency ID	Bandwidth NUL [MHz]		Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
	1.4	26697	814.7	8697	859.70
Low Range	3	26705	815.5	8705	860.50
	5	26715	816.5	8715	861.50
	10	26740	819	8740	864.00
Mid Range	1.4/3/5/10	26740	819	8740	864.00
	1.4	26783	823.3	8783	868.30
High Range	3	26775	822.5	8775	867.50
	5	26765	821.5	8765	866.50
	10	26740	819	8740	864.00

Band 26b

Dalid 200								
Test Frequency ID	Bandwidth	NUL	Frequency of	NDL	Frequency of			
	[MHz]		Uplink [MHz]		Downlink [MHz]			
	1.4	26797	824.7	8797	869.70			
	3	26805	825.5	8805	870.50			
Low Range	v Range 5 2681		826.5	8815	871.50			
	10	26840	829	8840	874.00			
	15	26865	831.5	8865	876.50			
Mid Range	1.4/3/5/10/15	26915	836.5	8915	881.50			
	1.4	27033	848.3	9033	893.30			
	3	27025	847.5	9025	892.50			
High Range	5	27015	846.5	9015	891.50			
	10	26990	844	8990	889.00			
	15	26965	841.5	8965	886.50			

Band 41

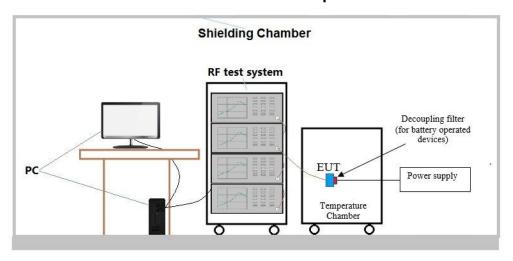
	Dana 41							
Test Frequency ID	Bandwidth [MHz]	NUL	Frequency (UL and DL) [MHz]					
	5	40265	2557.5					
Low Dongs	10	40290	2560					
Low Range	15	40315	2562.5					
	20	40340	2565					
Mid Range	5/10/15/20	40740	2605					
	5	41215	2652.5					
High Bongo	10	41190	2650					
High Range	15	41165	2647.5					
	20	41140	2645					





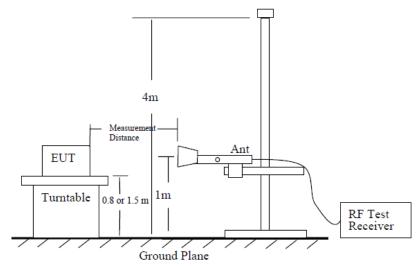
2.4 Test Setup and Conditions

2.4.1 Conducted Measurement Test Setup

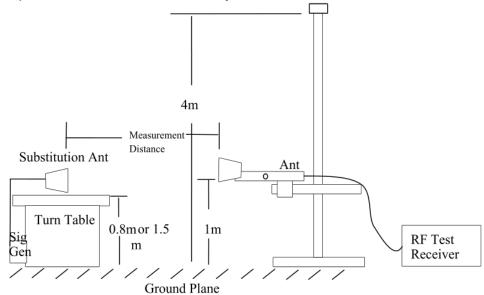


2.4.2 Radiated Measurement Test Setup

Step 1: Pre-test



Step 2: Substitution method to verify the maximum ERP/EIRP





2.5 Equipment List for the Test

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	EMI Measuring Receiver	R&S	ESR	101160	2024.09.25	2025.09.24
2	Spectrum Analyzer	R&S	FSV40	101470	2024.09.23	2025.09.22
3	Low Noise Pre Amplifier	SCHWARZBECK	BBV 9745	00282	2024.09.25	2025.09.24
4	Low Noise Pre Amplifier	SCHWARZBECK	BBV 9745	00283	2024.09.25	2025.09.24
5	Low Noise Pre Amplifier	CESHENG	CSKJLNA23101 6A	CSKJLNA231016 A	2024.09.25	2025.09.24
6	Passive Loop	ETS	6512	00165355	2024.08.29	2027.08.28
7	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9168	01434	2024.08.29	2027.08.28
8	Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	452	2024.08.29	2027.08.28
9	Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	453	2024.08.29	2027.08.28
10	Horn Antenna 15- 40GHz	SCHWARZBECK	BBHA9170	BBHA9170367	2024.08.28	2027.08.27
11	6dB Attenuator	JFW	50FPE-006	4360846-949-1	2024.09.24	2025.09.23
12	EMI Test Receiver	R&S	ESPI	100771	2024.09.25	2025.09.24
13	LISN	R&S	NNLK 8129	8130179	2024.09.24	2025.09.23
14	LISN	R&S	ESH3-Z5	892785/016	2024.09.23	2025.09.22
15	Pulse Limiter	R&S	ESH3-Z2	102789	2024.09.24	2025.09.23
16	RF Automatic Test system	TST	TSTPASS	21033016	2024.09.25	2025.09.24
17	Vector Signal Generator	Agilent	N5182A	MY50143009	2024.09.25	2025.09.24
18	Analog signal generator	Agilent	E8257	MY51554256	2024.09.25	2025.09.24
19	Spectrum Analyzer	Agilent	N9020A	MY51289843	2024.09.25	2025.09.24
20	Spectrum Analyzer	Agilent	N9020A	MY53421570	2024.09.25	2025.09.24
21	Power Sensor	Agilent	8481A	MY41097697	2024.09.25	2025.09.24
22	Wideband Radio communication tester	R&S	CMW500	1201.0002K50	2024.09.24	2025.09.23
23	DC power supply	ZHAOXIN	RXN-305D-2	28070002559	2024.09.24	2025.09.23
24	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A
25	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A
26	RF Software	TST	TSTPASS	Version 2.0	N/A	N/A
27	RF Software	cesheng	WCS-WCN	Version 2024.6.20	N/A	N/A
28	temporary antenna	NTS	R001	N/A	N/A	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

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3 TEST CONDITIONS AND RESULTS

3.1 Output Power

MEASUREMENT SETUP

Test set up as section 2.4.1& 2.4.2.

TEST PROCEDURE

The EUT was setup according to ANSI C63.26:2015

Conducted Power Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500 then selects a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

Determining ERP and/or EIRP from conducted RF output power measurements according to ANSI C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the EIRP. Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts).

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

ERP or EIRP = PMeas + G_T

ERP= EIRP-2.15

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

- a) ERP = EIRP 2.15, where ERP and EIRP are expressed in consistent units.
- b) EIRP = ERP + 2.15, where ERP and EIRP are expressed in consistent units.

TEST RESULTS

Not Applicable

Note:

Passed

For test data, please refer to Appendix RF test data for LTE.



3.2 Peak-to-Average Ratio

MEASUREMENT SETUP

Test set up as section 2.4.1.

TEST PROCEDURE

CCDF Procedure for PAPR:

- Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;

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- 3. Set the measurement interval as follows:
 - -for continuous transmissions, set to 1 ms,
 - -or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- 4. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Passed	

□ Pass	■ Not Applicable
Note: For test data, pleas	se refer to Appendix RF test data for LTE.



3.3 Occupied Bandwidth

MEASUREMENT SETUP

Test set up as section 2.4.1.

TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99%occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

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- 2. RBW = 1 5% of the expected OBW
- 3. VBW \geq 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within 1 5% of the 99% occupied bandwidth observed in Step 7

TEST RESULTS

Passed	
□ Pass	□ Not Applicable
Note: For test data, p	lease refer to Appendix RF test data for LTE.



3.4 Band Edge compliance

MEASUREMENT SETUP

Test set up as section 2.4.1.

TEST PROCEDURE

1. Set the spectrum analyzer center frequency to the block, band, or channel edge frequency.

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- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- 4. VBW \geq 3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = Average
- 8. Sweep time = > (number of points in sweep) × (symbol period)
- 9. Sweep =Single

Or

- 1. Set the spectrum analyzer center frequency to the block, band, or channel edge frequency.
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- 4. VBW ≥ 3 x RBW
- 5. Detector = Peak
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = Maxhold
- 8. Sweep time = Auto
- 9. Sweep =Single

TEST RESULTS

Passed

X	Pass	■ Not Applicable

Note:

For test data, please refer to Appendix RF test data for LTE.



3.5 Spurious Emission

MEASUREMENT SETUP

Test set up as section 2.4.1& 2.4.2.

TEST PROCEDURE

The EUT was setup according to ANSI C63.26:2015

Conducted Spurious Measurement:

Test Settings

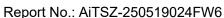
- 1. RBW = 1KHz (for 9K-150KHz), 10KHz (for 150KHz-10MHz), 100KHz (for 10MHz-30MHz), 1MHz(for above 1GHz)
- 2. VBW ≥ 3 * RBW
- 3. Detector = RMS
- 4. Trace Mode = Trace average
- 5. Sweep time > (number of points in sweep) × (symbol period)
- 6. Number of points in sweep ≥ 2 x Span / RBW
- 7. Sweep =Single

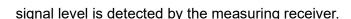
Or

- 1. RBW = 1KHz(for 9K-150KHz), 10KHz(for 150KHz-10MHz), 100KHz(for 10MHz-30MHz), 1MHz(for above 1GHz)
- 2. VBW ≥ 3 * RBW
- 3. Detector = Peak
- 4. Trace Mode = Maxhold
- 5. Sweep time = Auto
- 6. Number of points in sweep ≥ 2 x Span / RBW
- 7. Sweep =Single

Radiated Spurious Measurement:

- 1. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- 3. The output of the test antenna shall be connected to the measuring receiver.
- 4. The transmitter shall be switched on and the measuring 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 a maximum signal level is detected by the measuring receiver.
- 6. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum





- 7. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- 8. The maximum signal level detected by the measuring receiver shall be noted.
- 9. The transmitter shall be replaced by a substitution antenna.
- 10. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- 11. The substitution antenna shall be connected to a calibrated signal generator.
- 12. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- 13. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- 14. The input signal to the 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 attenuator setting of the measuring receiver.
- 15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- 16. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- 17. The frequency range need checked up to 10th harmonic.

Final measurement calculation as below:

The relevant equation for determining the ERP/EIRP from the radiated RF output power is: ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB) where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;



TEST RESULTS

Со	nducted Measu	rement result:
Pas	ssed	
\boxtimes	Pass	■ Not Applicable
Not For		e refer to Appendix RF test data for LTE.



Radiated Measurement:

Radiated Measuren							
LTE Band 2 /	1.4MHz / QPSK / F	RB Size 1 O	ffset 0/	The Wors	t Test Resu	ilts for Lo	west
Fraguera (MIII-	C.C.L.av. (dDm)	۸ ۳۰۴/ ما D:)	Lass	PMea	Limit	Margin	Dolovity
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3701.75	-45.66	11.63	5.22	-39.25	-13.00	-26.25	Н
5552.45	-45.85	12.19	6.34	-40.00	-13.00	-27.00	Н
7403.00	-49.72	11.12	7.58	-46.18	-13.00	-33.18	Н
3701.75	-45.54	11.63	5.22	-39.13	-13.00	-26.13	V
5552.45	-44.66	12.19	6.34	-38.81	-13.00	-25.81	V
7403.00	-48.90	11.12	7.58	-45.36	-13.00	-32.36	V
LTE Band 2 /	1.4MHz / QPSK / F	RB Size 1 C	ffset 0/	The Wors	st Test Resu	ults for Mi	ddle
	C C L av. (dDra)	A := 4(= D :)	1	PMea	Limit	Margin	Dalamitu
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3760.00	-45.95	11.55	5.29	-39.69	-13.00	-26.69	Н
5640.60	-44.44	12.1	6.34	-38.68	-13.00	-25.68	Н
7519.80	-51.24	11.35	7.64	-47.53	-13.00	-34.53	Н
3760.00	-45.40	11.55	5.29	-39.14	-13.00	-26.14	V
5640.60	-44.13	12.1	6.34	-38.37	-13.00	-25.37	V
7519.80	-50.31	11.35	7.64	-46.60	-13.00	-33.60	V
LTE Band 2 / '	1.4MHz / QPSK / R	B Size 1 O	ffset 0/ 7	The Wors	t Test Resu	Its for Hig	jhest
	C C L av. (alDina)	۸ :۵4/ ماD:)	1	PMea	Limit	Margin	Dalawitu
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3818.80	-44.18	11.48	5.33	-38.03	-13.00	-25.03	Н
5727.40	-48.38	11.94	6.36	-42.80	-13.00	-29.80	Н
7637.85	-50.18	11.43	7.69	-46.44	-13.00	-33.44	Н
3818.80	-43.13	11.48	5.33	-36.98	-13.00	-23.98	V
5727.40	-47.68	11.94	6.36	-42.10	-13.00	-29.10	V
7637.85	-49.35	11.43	7.69	-45.61	-13.00	-32.61	V

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LTE Band 5 / '	LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Гио жи о и о и (NALI—)	C C L av. (alDina)	۸ :۵4/ ماD:)	1	PMea	Limit	Margin	Delevity	
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity	
1649.55	-42.15	9.31	3.02	-35.86	-13.00	-22.86	Н	
2474.45	-46.89	10.4	3.96	-40.45	-13.00	-27.45	Н	
3299.00	-53.33	11.08	4.74	-46.99	-13.00	-33.99	Н	
1649.55	-41.90	9.31	3.02	-35.61	-13.00	-22.61	V	
2474.45	-46.69	10.4	3.96	-40.25	-13.00	-27.25	V	
3299.00	-52.67	11.08	4.74	-46.33	-13.00	-33.33	V	
LTE Band 5 /	1.4MHz / QPSK / F	RB Size 1 C	ffset 0/	The Wors	st Test Resu	ılts for Mi	ddle	
Fragueney/MHz)	C C L ov (dPm)	Apt/dDi)	Loop	PMea	Limit	Margin	Dolority	
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity	
1673.60	-45.25	9.48	3.06	-38.83	-13.00	-25.83	Н	
2510.00	-46.43	10.41	4	-40.02	-13.00	-27.02	Н	
3346.75	-54.05	11.24	4.81	-47.62	-13.00	-34.62	Н	
1673.60	-45.02	9.48	3.06	-38.60	-13.00	-25.60	V	
2510.00	-46.05	10.41	4	-39.64	-13.00	-26.64	V	
3346.75	-52.88	11.24	4.81	-46.45	-13.00	-33.45	V	
LTE Band 5 / 1	I.4MHz / QPSK / R	B Size 1 O	ffset 0/ 1	The Wors	t Test Resu	Its for Hig	hest	
		۸ ۳۰۴/ ما D:)	1 000	PMea	Limit	Margin	Delevity	
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity	
1697.55	-43.04	9.66	3.11	-36.49	-13.00	-23.49	Н	
2544.80	-47.18	10.41	4.04	-40.81	-13.00	-27.81	Н	
3394.00	-54.29	11.4	4.88	-47.77	-13.00	-34.77	Н	
1697.55	-42.94	9.66	3.11	-36.39	-13.00	-23.39	V	
2544.80	-47.10	10.41	4.04	-40.73	-13.00	-27.73	V	
3394.00	-53.33	11.4	4.88	-46.81	-13.00	-33.81	V	



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LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
		Ant(dRi) Loss PM		PMea	Limit	Margin	
Frequency(MHz)	S G.Lev (dBm)		(dBm)	(dBm)	(dBm)	Polarity	
5005.45	-42.18	11.33	5.76	-36.61	-25.00	-11.61	Н
7508.00	-44.07	11.33	7.63	-40.37	-25.00	-15.37	Н
10009.55	-48.85	11.72	9.09	-46.22	-25.00	-21.22	Н
5005.45	-41.77	11.33	5.76	-36.20	-25.00	-11.20	V
7508.00	-43.07	11.33	7.63	-39.37	-25.00	-14.37	V
10009.55	-47.75	11.72	9.09	-45.12	-25.00	-20.12	V
LTE Band 7 /	5MHz / QPSK / R	B Size 1 Of	fset 0/ T	he Worst	t Test Resul	Its for Mid	ldle
Fragueney/MHz)	C C L ov (dPm)	Ant(dDi)) Loss	PMea	Limit	Margin	Polarity
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)		(dBm)	(dBm)	(dBm)	
5070.00	-45.24	11.33	5.67	-39.58	-25.00	-14.58	Н
7605.00	-44.93	11.44	7.69	-41.18	-25.00	-16.18	Н
10140.25	-48.61	11.61	9.21	-46.21	-25.00	-21.21	Н
5070.00	-44.68	11.33	5.67	-39.02	-25.00	-14.02	V
7605.00	-44.68	11.44	7.69	-40.93	-25.00	-15.93	V
10140.25	-47.62	11.61	9.21	-45.22	-25.00	-20.22	V
LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Fraguerov/MHz)	S G.Lev (dBm)	Ant(dBi)	Loop	PMea	Limit	Margin	Polarity
Frequency(MHz)			Loss	(dBm)	(dBm)	(dBm)	
5135.15	-41.09	11.41	5.72	-35.40	-25.00	-10.40	Н
7702.30	-45.00	11.40	7.71	-41.31	-25.00	-16.31	Н
10270.00	-46.25	11.63	9.19	-43.81	-25.00	-18.81	Н
5135.15	-40.61	11.41	5.72	-34.92	-25.00	-9.92	V
7702.30	-44.13	11.40	7.71	-40.44	-25.00	-15.44	V
10270.00	-45.22	11.63	9.19	-42.78	-25.00	-17.78	V



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LTE Band 26a	1.4MHz / QPSK /	RB Size 1	Offset 0/	The Wor	st Test Res	ults for L	owest										
		A :: 4(-ID:)	PMea	Limit	Margin												
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Ant(dBi) Loss ((dBm)	(dBm)	(dBm)	Polarity										
1630.00	-44.84	9.17	2.98	-38.65	-13.00	-25.65	Н										
2445.25	-49.04	10.39	3.93	-42.58	-13.00	-29.58	Н										
3259.00	-52.10	10.91	4.68	-45.87	-13.00	-32.87	Н										
1630.00	-43.71	9.17	2.98	-37.52	-13.00	-24.52	V										
2445.25	-48.40	10.39	3.93	-41.94	-13.00	-28.94	V										
3259.00	-51.38	10.91	4.68	-45.15	-13.00	-32.15	V										
LTE Band 26a	/ 1.4MHz / QPSK /	RB Size 1	Offset 0	The Wo	rst Test Res	ults for N	liddle										
Fraguenov/MUz)	S C Lov (dPm)	Ant(dDi)	1 000	PMea	Limit	Margin	Polarity										
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)		(dBm)	(dBm)	(dBm)											
1638.05	-41.56	9.23	3	-35.33	-13.00	-22.33	Н										
2457.40	-46.04	10.4	3.94	-39.58	-13.00	-26.58	Н										
3276.00	-49.82	10.98	4.71	-43.55	-13.00	-30.55	Н										
1638.05	-40.70	9.23	3	-34.47	-13.00	-21.47	V										
2457.40	-45.20	10.4	3.94	-38.74	-13.00	-25.74	V										
3276.00	-49.23	10.98	4.71	-42.96	-13.00	-29.96	V										
LTE Band 26a /	1.4MHz / QPSK /	RB Size 1 (Offset 0/	The Wor	st Test Res	ults for Hi	ghest										
Frequency(MHz)	S C Lov (dPm)	Ant(dDi)	Loss	PMea	Limit	Margin	Polarity										
Frequency(winz)	S G.Lev (dBm)	Ani(ubi)	AII(UDI)	Ant(ubi)	AII(ubi)	Aii(ubi)	Anti(ubi)	Anit(abl)	Ani(abi)	Ant(dBi)	Ail(ubi)	Ani(ubi)	LUSS	(dBm)	(dBm)	(dBm)	Polarity
1647.45	-43.47	9.3	3.02	-37.19	-13.00	-24.19	Н										
2470.00	-48.45	10.4	3.96	-42.01	-13.00	-29.01	Н										
3294.55	-51.66	11.06	4.74	-45.34	-13.00	-32.34	Н										
1647.45	-43.28	9.3	3.02	-37.00	-13.00	-24.00	V										
2470.00	-47.75	10.4	3.96	-41.31	-13.00	-28.31	V										
3294.55	-51.35	11.06	4.74	-45.03	-13.00	-32.03	V										



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LTE Band 26b	1.4MHz / QPSK /	RB Size 1	Offset 0/	The Wor	st Test Res	ults for L	owest					
		Ant(dRi) Loss PM		PMea	Limit	Margin						
Frequency(MHz)	S G.Lev (dBm)		(dBm)	(dBm)	(dBm)	Polarity						
1650.10	-44.75	9.32	3.02	-38.45	-13.00	-25.45	Н					
2474.85	-47.92	10.4	3.96	-41.48	-13.00	-28.48	Н					
3298.25	-52.56	11.08	4.74	-46.22	-13.00	-33.22	Н					
1650.10	-43.78	9.32	3.02	-37.48	-13.00	-24.48	V					
2474.85	-46.95	10.4	3.96	-40.51	-13.00	-27.51	V					
3298.25	-52.17	11.08	4.74	-45.83	-13.00	-32.83	V					
LTE Band 26b	/ 1.4MHz / QPSK /	RB Size 1	Offset 0	/ The Wo	rst Test Res	ults for N	liddle					
Fraguera (MIII)	C C L av (dDra)	A := 4(alD:)	1	PMea	Limit	Margin	Polarity					
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)						
1673.20	-44.73	9.48	3.06	-38.31	-13.00	-25.31	Н					
2510.65	-46.05	10.41	4.01	-39.65	-13.00	-26.65	Н					
3346.00	-50.44	11.24	4.81	-44.01	-13.00	-31.01	Н					
1673.20	-44.42	9.48	3.06	-38.00	-13.00	-25.00	V					
2510.65	-44.95	10.41	4.01	-38.55	-13.00	-25.55	V					
3346.00	-50.11	11.24	4.81	-43.68	-13.00	-30.68	V					
LTE Band 26b /	1.4MHz / QPSK /	RB Size 1 (Offset 0/	The Wor	st Test Res	ults for H	ighest					
Fraguenov/MUz)	S G.Lev (dBm)	Ant(dBi)	1.000	PMea	Limit	Margin	Dalamitus					
Frequency(MHz)			Anti(ubi)	Ani(ubi)	Ani(ubi)	Ani(abi)	Ani(abi)	Ant(aBI)	Ani(abi)	Loss	(dBm)	(dBm)
1696.60	-43.60	9.65	3.11	-37.06	-13.00	-24.06	Н					
2544.35	-46.69	10.41	4.04	-40.32	-13.00	-27.32	Н					
3393.25	-51.73	11.4	4.88	-45.21	-13.00	-32.21	Н					
1696.60	-43.17	9.65	3.11	-36.63	-13.00	-23.63	V					
2544.35	-46.38	10.41	4.04	-40.01	-13.00	-27.01	V					
3393.25	-51.59	11.4	4.88	-45.07	-13.00	-32.07	V					



LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Eroguanov/MUz)	C C L ov (dDm)	AntidRi) Loss	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	S G.Lev (dBm)		(dBm)	(dBm)	(dBm)	Polarity	
5115.20	-42.14	11.37	5.66	-36.43	-25.00	-11.43	Н
7673.40	-43.86	11.42	7.70	-40.14	-25.00	-15.14	Н
10229.60	-48.76	11.61	9.25	-46.40	-25.00	-21.40	Н
5115.20	-40.94	11.37	5.66	-35.23	-25.00	-10.23	V
7673.40	-42.75	11.42	7.70	-39.03	-25.00	-14.03	V
10229.60	-48.26	11.61	9.25	-45.90	-25.00	-20.90	V
LTE Band 41	TE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle						ddle
Гээ эх гээ эх г/NДЦ - \	0.01 (-10)	A 4(-ID:)	1	PMea	Limit	Margin	Polarity
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	
5209.85	-45.31	11.58	5.89	-39.62	-25.00	-14.62	Н
7814.90	-44.96	11.28	7.72	-41.40	-25.00	-16.40	Н
10420.00	-48.42	11.71	9.26	-45.97	-25.00	-20.97	Н
5209.85	-44.32	11.58	5.89	-38.63	-25.00	-13.63	V
7814.90	-44.03	11.28	7.72	-40.47	-25.00	-15.47	V
10420.00	-47.39	11.71	9.26	-44.94	-25.00	-19.94	V
LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest						hest	
Гто жи опом//// I=\	C C L av (dDm)	۸ ۳۰۴/ ما D:)	1 000	PMea	Limit	Margin	Dolovity
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	(dBi) Loss	(dBm)	(dBm)	(dBm)	Polarity
5305.00	-41.82	11.84	5.96	-35.94	-25.00	-10.94	Н
7958.00	-43.00	11.26	7.78	-39.52	-25.00	-14.52	Н
10609.50	-49.19	11.67	9.44	-46.96	-25.00	-21.96	Н
5305.00	-41.42	11.84	5.96	-35.54	-25.00	-10.54	V
7958.00	-42.99	11.26	7.78	-39.51	-25.00	-14.51	V
10609.50	-48.83	11.67	9.44	-46.60	-25.00	-21.60	V

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Remark:

- 1. PMea = S G.Lev + Ant Loss
- 2. Margin = PMea Limit
- 3. Other emission levels are attenuated 20dB below the limit and not recorded in report.

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3.6 Frequency Stability under Temperature & Voltage Variations

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TEST CONFIGURATION

Test set up as section 2.4.1.

TEST PROCEDURE

The EUT was setup according to ANSI C63.26:2015

Frequency Stability under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10° C increased per stage until the highest temperature of +50°C reached.

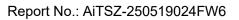
Frequency Stability under Voltage Variations:

Set chamber temperature to 20℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

TEST RESULTS

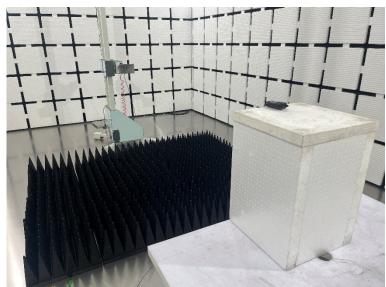
Passed	
□ Pass	■ Not Applicable
Note: For test data, ple	ase refer to Appendix RF test data for LTF





4 Test Setup Photographs of EUT







5 Photos of EUT

Please refer to test Rep	ort No.: AHSZ-25051	19024FW1.	
;	******	End of Report	******

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