

**ETSI EN 301 908-1 V15.2.1 (2023-01)**  
**ETSI EN 301 908-13 V13.2.1 (2022-02)**  
**ETSI TS 136 521-1 V17.6.1 (2023-07)**

**TEST REPORT**

For

**SHENZHEN TENDA TECHNOLOGY CO., LTD.**

6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

**Tested Model: 4G08**

<b>Report Type:</b> Original Report	<b>Product Type:</b> AC1200 Dual-band Wi-Fi 4G+ LTE Router
<b>Report Number:</b>	2402A113224E-22D
<b>Report Date:</b>	2025/2/10
<b>Reviewed By:</b>	Ivy Tang Project Engineer
<b>Approved By:</b>	Rocky Xiao RF Supervisor
<b>Test Laboratory:</b>	Bay Area Compliance Laboratories Corp. (Dongguan) (No.12, Pulong East 1 <sup>st</sup> Road, Tangxia Town, Dongguan, Guangdong, China) Tel: +86-769-86858888 Fax: +86-769-86858891 <a href="http://www.baclcorp.com.cn">www.baclcorp.com.cn</a>

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402A113224E-22D	Original Report	2025/2/10

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

<b>Product Name:</b>		AC1200 Dual-band Wi-Fi 4G+ LTE Router
<b>EUT Model:</b>		4G08
<b>Rated Input Voltage:</b>		12Vdc from adapter
<b>Adapter 1# Information</b>	<b>Model:</b>	BN073-A12012E
	<b>Input:</b>	100-240Vac 50/60Hz 0.4A
	<b>Output:</b>	DC12V 1A
<b>Adapter 2# Information</b>	<b>Model:</b>	BN073-A12012B
	<b>Input:</b>	100-240Vac 50/60Hz 0.4A
	<b>Output:</b>	DC12V 1A
<b>Serial Number:</b>		2WU8-1
<b>EUT Received Date:</b>		2025/1/2
<b>EUT Received Status:</b>		Good

### Technical Specification

<b>Operation Frequency Range</b>	Band 1: 1920-1980MHz(TX);2110-2170MHz(RX); Band 3: 1710-1785MHz(TX);1805-1880MHz(RX); Band 5: 824-849MHz(TX);869-894MHz(RX); Band 7: 2500-2570MHz(TX);2620-2690MHz(RX); Band 8: 880-915MHz(TX);925-960MHz(RX); Band 20: 832-862MHz(TX);791-821MHz(RX); Band 28: 703-748MHz(TX);758-803MHz(RX); Band 38: 2570-2620MHz(TX);2570-2620MHz(RX); Band 40: 2300-2400MHz(TX);2300-2400MHz(RX); Band 41: 2496-2690MHz(TX);2496-2690MHz(RX).
<b>Rated RF Output Power (Conducted) (dBm):</b>	25
<b>Antenna Gain<sup>▲</sup>:</b>	1.36dBi@B1; 1.57dBi@B3; 2.13dBi@B5; 2.68dBi@B7; 2.46dBi@B8; 2.29dBi@B20; 3.6dBi@B28; 2.04dBi@B38; 1.5dBi@B40; 2.3dBi@B41
<b>Modulation Type:</b>	QPSK, 16-QAM, 64-QAM

### Objective

This report is prepared on behalf of **SHENZHEN TENDA TECHNOLOGY CO., LTD.** in accordance with ETSI EN 301 908-1 V15.2.1 (2023-01) IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements; ETSI EN 301 908-13 V13.2.1 (2022-02) IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE); ETSI TS 136 521-1 V17.6.1 (2023-07) LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing (3GPP TS 36.521-1 version 17.6.1 Release 17).

The objective is to determine the compliance of EUT with: ETSI EN 301 908-1 V15.2.1 (2023-01), ETSI EN 301 908-13 V13.2.1 (2022-02) and ETSI TS 136 521-1 V17.6.1 (2023-07).

## Test Methodology

All measurements contained in this report were conducted with  
ETSI EN 301 908-1 V15.2.1 (2023-01) IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements;  
ETSI EN 301 908-13 V13.2.1 (2022-02) IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE);  
ETSI TS 136 521-1 V17.6.1 (2023-07) LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing (3GPP TS 36.521-1 version 17.6.1 Release 17).

## Declarations

The information marked ▲ is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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## Measurement Uncertainty

Parameter	F <sub>lab</sub>	Maximum allow uncertainty
Transmitter maximum output power	±0.6 dB	±0,7 dB
Transmitter spectrum emissions mask	±1,5 dB	±1,5 dB
Transmitter spurious emissions 9 kHz < f ≤ 4 GHz	±2.5 dB*	±2,0 dB
Transmitter spurious emissions 4 GHz < f ≤ 12,75 GHz	±2.5 dB	±4,0 dB
Transmitter Minimum output power	±0.6 dB	±1,0 dB
Receiver Adjacent Channel Selectivity (ACS)	±1.5 dB*	±1,1 dB
Receiver Blocking characteristics 1 MHz < F <sub>Interferer</sub> ≤ 3 GHz	±1.5 dB*	±1,3 dB
Receiver Blocking characteristics 3 GHz < F <sub>Interferer</sub> ≤ 12,75 GHz	±3.3 dB*	±3,2 dB
Receiver spurious response 1 MHz < F <sub>Interferer</sub> ≤ 3 GHz	±1.5 dB*	±1,3 dB
Receiver spurious response 3 GHz < F <sub>Interferer</sub> ≤ 12,75 GHz	±3.3 dB*	±3,2 dB
Receiver intermodulation characteristics	±1.3 dB	±1,4 dB
Receiver spurious emissions 9 kHz < f ≤ 4 GHz	±2.5 dB*	±2,0 dB
Receiver spurious emissions 4 GHz < f ≤ 12,75 GHz	±2.5 dB	±4,0 dB
Transmitter adjacent channel leakage power ratio	±0.8 dB	±0,8 dB
Receiver Reference Sensitivity Level f ≤ 4,0 GHz	±0.6 dB	±0,7 dB
Receiver Reference Sensitivity Level 4 GHz < f ≤ 12,75 GHz	±0.9 dB	±1,0 dB

Note:

\* Test system of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an adjustment is made follows:

any additional uncertainty in the test system over and above that specified in harmonized standard should be used to tighten the test requirements - making the test harder to pass (for some tests, e.g. receiver tests, this may require modification of stimulus signals). This procedure will ensure that a test system not compliant with harmonized standard does not increase the probability of passing an EUT that would otherwise have failed a test if a test system compliant with harmonized standard had been used.

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing according to EN 301 908-1, EN 301 908-13 and ETSI TS 136 521-1.

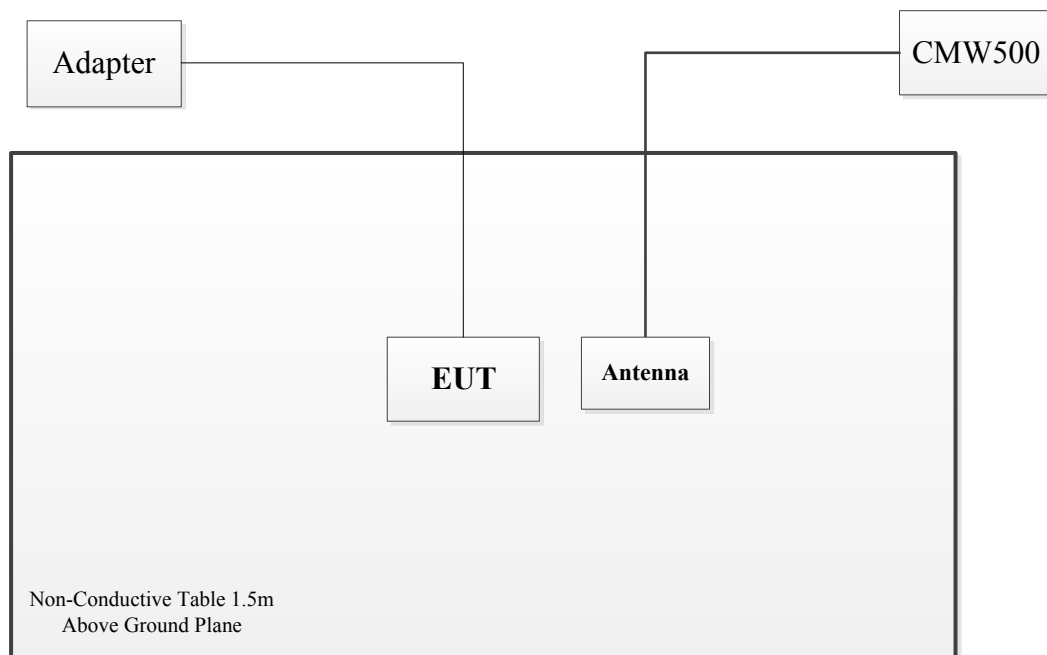
### Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	SIM Card	/	/
R&S	Wideband Radio Communication Tester	CMW500	144976
TEJIATE	Antenna	SMA	BL2010263

### Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Antenna Cable	Yes	No	10	CMW500	Antenna

### Block Diagram of Test Setup



## Test Equipment List

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>Radiated emissions below 1GHz</b>					
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2026/9/5
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	185914	2024/8/26	2025/8/25
R&S	EMI Test Receiver	ESCI	100224	2024/8/26	2025/8/25
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Micro-Coax	Coaxial Cable	UFA210B	99G1448	2024/9/5	2025/9/4
Agilent	Signal Generator	E8247C	MY43321350	2024/9/5	2025/9/4
R&S	Wideband Radio Communication Tester	CMW500	149216	2024/9/5	2025/9/4
<b>Radiated emissions above 1GHz</b>					
AH	Horn Antenna	SAS-571	1177	2023/2/22	2026/2/21
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
HUBER+SUHNER	Coaxial Cable	SUCOFLEX 126EA	MY369/26/26EA	2024/7/1	2025/6/30
Micro-Coax	Coaxial Cable	UFA210B	99G1448	2024/9/5	2025/9/4
Mini-Circuits	Preamplifier	ZVZ-183-S+	5696001267	2024/3/1	2025/2/28
Agilent	Spectrum Analyzer	E4440A	MY44303352	2024/10/22	2025/10/21
Agilent	Signal Generator	E8247C	MY43321350	2024/9/5	2025/9/4
R&S	Wideband Radio Communication Tester	CMW500	147473	2024/9/5	2025/9/4
E-Microwave	Band Rejection Filter	OBF-ZP-703-748-S MAF	OE01902425	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF824-862MS	1438001	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF880-915MN	0382003	2024/6/11	2025/6/10
Sinoscite	Band Rejection Filter	BSF1710-1785MN	0383003	2024/6/7	2025/6/6
E-Microwave	Band Rejection Filter	OBF-ZP-1920-1980 -SMAF	OE01602353	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF2300-2400MS	0777003	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF2500-2750MS	1439001	2024/6/7	2025/6/6
Micro-tronics	High Pass Filter	HPM50111	G217	2024/11/30	2025/11/29

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).



Environmental Conditions

Test Item:	Radiated emissions (below 1GHz)	Radiated emissions (above 1GHz)
Temperature:	20.4 °C	21.5 °C
Relative Humidity:	35.0 %	38.0 %
ATM Pressure:	101.1 kPa	102.3 kPa
Tester:	Zoo Zou	Bill Yang
Test Date:	2025/1/20	2025/1/10

## SUMMARY OF TEST RESULTS

SN	Rule and Clause	Description of Test	Test Result
1	EN 301 908-1 Clause 4.2.2	Radiated emissions (UE)	Compliant
2	EN 301 908-1 Clause 4.2.3	Radiated emissions (BS and repeater)	Not applicable*
3	EN 301 908-1 Clause 4.2.4	Control and monitoring functions (UE)	Note**
4	EN 301 908-13 Clause 4.2.2 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 6.2.2	Transmitter maximum output power	Note*
5	EN 301 908-13 Clause 4.2.3 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 6.6.2.1	Transmitter spectrum emission mask	Note*
6	EN 301 908-13 Clause 4.2.4 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 6.6.3.1	Transmitter spurious emissions	Note*
7	EN 301 908-13 Clause 4.2.5 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 6.3.2	Transmitter minimum output power	Note*
8	EN 301 908-13 Clause 4.2.6 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 7.5	Receiver adjacent channel selectivity (ACS)	Note*
9	EN 301 908-13 Clause 4.2.7 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 7.6	Receiver blocking characteristics	Note*
10	EN 301 908-13 Clause 4.2.8 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 7.7	Receiver spurious response	Note*
11	EN 301 908-13 Clause 4.2.9 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 7.8	Receiver intermodulation characteristics	Note*
12	EN 301 908-13 Clause 4.2.10 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 7.9	Receiver spurious emissions	Note*
13	EN 301 908-13 Clause 4.2.11 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 6.6.2.3	Transmitter adjacent channel leakage power ratio	Note*
14	EN 301 908-13 Clause 4.2.12 ETSI TS 136 521-1 V17.6.1 (2023-07) clause 7.3	Receiver reference sensitivity level	Note*
15	EN 301 908-13 Clause 4.2.13	Receiver Total Radiated Sensitivity (TRS)	Not applicable**
16	EN 301 908-13 Clause 4.2.14	Total Radiated Power (TRP)	Not applicable**

**Note:**

Not applicable\*: This product does not belong to BS or repeater.

Not applicable\*\*: This product is not phone.

Note\*: Please refers to the report of the certified RF module in the device, report

No.: ZEWA2209000092RG02<sup>▲</sup>, which was released by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch.

Note\*\*: Please refers to the report of the certified RF module in the device, report

No.: ZEWA2209000092RG03<sup>▲</sup>, which was released by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch.

## 1 – RADIATED EMISSIONS (UE)

### Applicable Standard

This test assesses the ability of radio communications equipment and ancillary equipment to limit unwanted emissions from the enclosure port.

This test is applicable to radio communications equipment and ancillary equipment, except for NR UE operating in FR2.

NOTE: For NR UE operating in FR2, the radiated emission is covered by radiated spurious emission requirement in ETSI EN 301 908-25 [i.12].

This test shall be performed on the radio communications equipment and/or a representative configuration of the ancillary equipment.

### Limit

The frequency boundary and reference bandwidths for the detailed transitions of the limits between the requirements for out-of-band emissions and spurious emissions are based on Recommendations ITU-R SM.329-12 [1] and SM.1539-1 [i.6].

The requirements shown in table 4.2.2.2-1 are only applicable for frequencies in the spurious domain.

**Table 4.2.2.2-1: Radiated spurious emissions requirements (UE)**

Frequency	Minimum requirement (e.r.p.)/ reference bandwidth idle mode	Minimum requirement (e.r.p.)/ reference bandwidth traffic mode	Applicability
$30 \text{ MHz} \leq f < 1\,000 \text{ MHz}$	-57 dBm/100 kHz	-36 dBm/100 kHz	All
$1 \text{ GHz} \leq f < 12,75 \text{ GHz}$	-47 dBm/1 MHz	-30 dBm/1 MHz	All
$12,75 \text{ GHz} \leq f < 5^{\text{th}}$ harmonic of the upper frequency edge of the Uplink operating band in GHz	-47 dBm/1 MHz	-30 dBm/1 MHz	All (note 3)
$12,75 \text{ GHz} < f < 26 \text{ GHz}$	-47 dBm/1 MHz	-30 dBm/1 MHz	All (note 4)
$f_c - 2,5 \times 5 \text{ MHz} < f < f_c + 2,5 \times 5 \text{ MHz}$ (note 1 and note 2)	Not defined	Not defined	UTRA FDD, UTRA TDD, 3,84 Mcps option, cdma2000, spreading rate 3
$f_c - 2,5 \times \text{BW}_{\text{Channel}} \text{ MHz} < f < f_c + 2,5 \times \text{BW}_{\text{Channel}} \text{ MHz}$ (note 1 and note 2)	Not defined	Not defined	E-UTRA FDD, E-UTRA TDD, Mobile WIMAX™
$f_c - (1,5 \times \text{BW}_{\text{Channel}} + 5) \text{ MHz} < f < f_c + (1,5 \times \text{BW}_{\text{Channel}} + 5) \text{ MHz}$ (note 1)	Not defined	Not defined	NR operating in FR1
$f_c - 2,5 \times 10 \text{ MHz} < f < f_c + 2,5 \times 10 \text{ MHz}$ (note 1 and note 2)	Not defined	Not defined	UTRA TDD, 7,68 Mcps option
$f_c - 4 \text{ MHz} < f < f_c + 4 \text{ MHz}$ (note 1 and note 2)	Not defined	Not defined	UTRA TDD, 1,28 Mcps option cdma2000, spreading rate 1

NOTE 1:  $f_c$  is the UE transmit centre frequency.  
 NOTE 2: This frequency range is not in the spurious domain, no requirement is then defined for this frequency range.  
 NOTE 3: Applies for Band that the upper frequency edge of the Uplink Band more than 2,69 GHz.  
 NOTE 4: Applies for Band that the upper frequency edge of the Uplink Band more than 5,2 GHz.

### Test Procedure

According to ETSI EN 301 908-1 V15.2.1 (2023-01) clause 5.3.1

**Test Data**

Note: Pretest with low, middle, high channel, the worst case please refer to following table:

**Band 1 traffic mode middle channel 1950 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
3900.00	H	36.56	-58.67	12.28	1.33	-47.72	-30.00	17.72
3900.00	V	37.07	-56.08	12.28	1.33	-45.13	-30.00	15.13
5850.00	H	34.02	-58.63	13.29	1.50	-46.84	-30.00	16.84
5850.00	V	37.06	-53.57	13.29	1.50	-41.78	-30.00	11.78
194.29	H	41.37	-69.14	0.00	0.17	-69.31	-36.00	33.31
71.27	V	38.42	-67.94	-4.37	0.11	-72.42	-36.00	36.42

**Band 1 idle mode 1950 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1544.200	H	38.45	-63.34	10.13	1.42	-54.63	-47.00	7.63
1903.700	V	37.46	-62.60	11.21	3.07	-54.46	-47.00	7.46
375.32	H	42.53	-64.72	0.00	0.19	-64.91	-57.00	7.91
72.34	V	38.49	-67.70	-3.83	0.11	-71.64	-57.00	14.64

**Band 3 traffic mode middle channel 1747.5 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
3495.00	H	34.01	-63.44	12.20	1.33	-52.57	-30.00	22.57
3495.00	V	33.69	-61.75	12.20	1.33	-50.88	-30.00	20.88
5242.50	H	33.88	-59.46	12.90	1.31	-47.87	-30.00	17.87
5242.50	V	34.87	-55.97	12.90	1.31	-44.38	-30.00	14.38
193.31	H	41.45	-69.10	0.00	0.17	-69.27	-36.00	33.27
73.12	V	38.12	-67.96	-3.44	0.11	-71.51	-36.00	35.51

**Band 3 idle mode 1747.5 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1477.300	H	38.54	-63.52	9.90	1.19	-54.81	-47.00	7.81
1705.600	V	36.92	-63.92	10.62	2.16	-55.46	-47.00	8.46
375.25	H	42.71	-64.54	0.00	0.19	-64.73	-57.00	7.73
71.51	V	39.22	-67.10	-4.25	0.11	-71.46	-57.00	14.46

**Band 5 traffic mode middle channel 836.5 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1673.00	H	40.85	-59.88	10.52	2.01	-51.37	-30.00	21.37
1673.00	V	36.78	-64.19	10.52	2.01	-55.68	-30.00	25.68
2509.50	H	33.87	-64.94	12.20	1.26	-54.00	-30.00	24.00
2509.50	V	33.51	-63.52	12.20	1.26	-52.58	-30.00	22.58
3346.00	H	33.47	-64.40	12.26	1.33	-53.47	-30.00	23.47
3346.00	V	33.89	-62.07	12.26	1.33	-51.14	-30.00	21.14
193.42	H	42.37	-68.18	0.00	0.17	-68.35	-36.00	32.35
72.38	V	38.22	-67.97	-3.81	0.11	-71.89	-36.00	35.89

**Band 5 idle mode 836.5 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1269.500	H	38.56	-62.66	9.03	1.03	-54.66	-47.00	7.66
1744.300	V	37.02	-63.67	10.73	2.33	-55.27	-47.00	8.27
375.23	H	43.24	-64.01	0.00	0.19	-64.20	-57.00	7.20
71.48	V	39.32	-67.01	-4.26	0.11	-71.38	-57.00	14.38

**Band 7 traffic mode middle channel 2535 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5070.00	H	39.18	-53.78	12.97	1.29	-42.10	-30.00	12.10
5070.00	V	36.85	-53.39	12.97	1.29	-41.71	-30.00	11.71
7605.00	H	33.88	-55.17	12.84	1.57	-43.90	-30.00	13.90
7605.00	V	34.56	-55.03	12.84	1.57	-43.76	-30.00	13.76
193.21	H	41.27	-69.29	0.00	0.17	-69.46	-36.00	33.46
71.34	V	38.49	-67.86	-4.33	0.11	-72.30	-36.00	36.30

**Band 7 idle mode 2535 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1749.600	H	36.02	-64.09	10.75	2.36	-55.70	-47.00	8.70
1366.500	V	38.57	-62.87	9.44	1.11	-54.54	-47.00	7.54
375.52	H	43.47	-63.78	0.00	0.19	-63.97	-57.00	6.97
71.54	V	39.31	-67.01	-4.23	0.11	-71.35	-57.00	14.35

**Band 8 traffic mode middle channel**

**897.5 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1795.00	H	42.71	-57.02	10.89	2.57	-48.70	-30.00	18.70
1795.00	V	40.49	-60.00	10.89	2.57	-51.68	-30.00	21.68
2692.50	H	34.01	-64.82	12.28	1.29	-53.83	-30.00	23.83
2692.50	V	33.88	-63.20	12.28	1.29	-52.21	-30.00	22.21
3590.00	H	33.39	-63.55	12.22	1.33	-52.66	-30.00	22.66
3590.00	V	33.24	-61.67	12.22	1.33	-50.78	-30.00	20.78
193.47	H	41.22	-69.33	0.00	0.17	-69.50	-36.00	33.50
73.29	V	38.54	-67.51	-3.36	0.11	-70.98	-36.00	34.98

**Band 8 idle mode**

**897.5 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1635.400	H	38.66	-62.38	10.41	1.83	-53.80	-47.00	6.80
2101.900	V	36.43	-62.71	11.64	3.05	-54.12	-47.00	7.12
375.21	H	44.17	-63.08	0.00	0.19	-63.27	-57.00	6.27
71.45	V	38.62	-67.71	-4.28	0.11	-72.10	-57.00	15.10

**Band 20 traffic mode middle channel**

**847 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1694.00	H	40.69	-59.87	10.58	2.10	-51.39	-30.00	21.39
1694.00	V	36.37	-64.52	10.58	2.10	-56.04	-30.00	26.04
2541.00	H	33.89	-64.93	12.22	1.27	-53.98	-30.00	23.98
2541.00	V	34.07	-62.97	12.22	1.27	-52.02	-30.00	22.02
3388.00	H	33.05	-64.70	12.24	1.33	-53.79	-30.00	23.79
3388.00	V	33.98	-61.83	12.24	1.33	-50.92	-30.00	20.92
193.24	H	42.87	-67.69	0.00	0.17	-67.86	-36.00	31.86
71.25	V	38.42	-67.94	-4.38	0.11	-72.43	-36.00	36.43

**Band 20 idle mode**

**847 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1633.700	H	37.69	-63.37	10.40	1.83	-54.80	-47.00	7.80
2011.200	V	37.34	-62.28	11.52	3.46	-54.22	-47.00	7.22
375.45	H	42.58	-64.67	0.00	0.19	-64.86	-57.00	7.86
73.69	V	38.74	-67.25	-3.16	0.11	-70.52	-57.00	13.52

**Band 28 traffic mode middle channel****725.5 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1451.00	H	37.32	-64.64	9.79	1.17	-56.02	-30.00	26.02
1451.00	V	35.51	-66.07	9.79	1.17	-57.45	-30.00	27.45
2176.50	H	34.08	-64.24	11.75	2.72	-55.21	-30.00	25.21
2176.50	V	33.64	-65.10	11.75	2.72	-56.07	-30.00	26.07
2902.00	H	33.66	-65.18	12.36	1.31	-54.13	-30.00	24.13
2902.00	V	33.71	-63.43	12.36	1.31	-52.38	-30.00	22.38
193.78	H	42.53	-68.00	0.00	0.17	-68.17	-36.00	32.17
73.45	V	39.16	-66.87	-3.28	0.11	-70.26	-36.00	34.26

**Band 28 idle mode****725.5 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1744.200	H	38.69	-61.46	10.73	2.33	-53.06	-47.00	6.06
2102.400	V	37.44	-61.70	11.64	3.05	-53.11	-47.00	6.11
375.74	H	43.16	-64.08	0.00	0.19	-64.27	-57.00	7.27
71.23	V	38.45	-67.91	-4.39	0.11	-72.41	-57.00	15.41

**Band 38 traffic mode middle channel****2595 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5190.00	H	34.95	-58.27	12.92	1.31	-46.66	-30.00	16.66
5190.00	V	33.87	-56.78	12.92	1.31	-45.17	-30.00	15.17
7785.00	H	33.66	-55.01	12.91	1.49	-43.59	-30.00	13.59
7785.00	V	34.17	-55.00	12.91	1.49	-43.58	-30.00	13.58
195.64	H	44.51	-65.93	0.00	0.18	-66.11	-36.00	30.11
75.46	V	39.16	-66.56	-2.27	0.10	-68.93	-36.00	32.93

**Band 38 idle mode****2595 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1966.300	H	36.56	-61.77	11.40	3.35	-53.72	-47.00	6.72
1601.700	V	37.11	-64.14	10.31	1.68	-55.51	-47.00	8.51
375.42	H	42.58	-64.67	0.00	0.19	-64.86	-57.00	7.86
76.85	V	40.19	-65.32	-1.58	0.10	-67.00	-57.00	10.00

**Band 40 traffic mode middle channel****2350 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
4700.00	H	34.12	-61.42	13.24	1.29	-49.47	-30.00	19.47
4700.00	V	33.36	-59.62	13.24	1.29	-47.67	-30.00	17.67
7050.00	H	33.98	-56.21	13.34	1.39	-44.26	-30.00	14.26
7050.00	V	34.82	-55.30	13.34	1.39	-43.35	-30.00	13.35
193.45	H	44.29	-66.26	0.00	0.17	-66.43	-36.00	30.43
76.85	V	39.78	-65.73	-1.58	0.10	-67.41	-36.00	31.41

**Band 40 idle mode****2350 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1744.300	H	38.56	-61.59	10.73	2.33	-53.19	-47.00	6.19
2103.600	V	36.77	-62.36	11.65	3.04	-53.75	-47.00	6.75
375.21	H	42.89	-64.36	0.00	0.19	-64.55	-57.00	7.55
75.48	V	39.54	-66.18	-2.26	0.10	-68.54	-57.00	11.54

**Band 41 traffic mode middle channel****2605 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5210.00	H	42.98	-50.29	12.92	1.31	-38.68	-30.00	8.68
5210.00	V	39.52	-51.20	12.92	1.31	-39.59	-30.00	9.59
7815.00	H	34.35	-54.26	12.93	1.48	-42.81	-30.00	12.81
7815.00	V	33.85	-55.25	12.93	1.48	-43.80	-30.00	13.80
193.47	H	44.65	-65.90	0.00	0.17	-66.07	-36.00	30.07
76.42	V	39.53	-66.04	-1.79	0.10	-67.93	-36.00	31.93

**Band 41 idle mode****2605 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1413.200	H	38.74	-63.06	9.64	1.14	-54.56	-47.00	7.56
1796.500	V	36.55	-63.93	10.89	2.57	-55.61	-47.00	8.61
375.85	H	43.29	-63.95	0.00	0.19	-64.14	-57.00	7.14
77.44	V	40.13	-65.29	-1.28	0.10	-66.67	-57.00	9.67

Note 1: The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Note 2:

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level



## **EXHIBIT A – EUT PHOTOGRAPHS**

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For photos in this section, please refer to report No.: 2402A113224E-02 EXHIBIT A.

## **EXHIBIT B – TEST SETUP PHOTOGRAPHS**

Radiated Emissions Below 1GHz View



Radiated Emissions Above 1GHz View



**\*\*\*\*\*END OF REPORT\*\*\*\*\***