

**ETSI EN 301 908-1 V15.1.1 (2021-09)**  
**ETSI EN 301 908-13 V13.1.1 (2019-11)**

**TEST REPORT**

For

**Xiamen Milesight IoT Co., Ltd.**

Building C09, Software Park Phase III, Xiamen 361024, Fujian, China

**Tested Model: UR35-L04EU-G-P-W**  
**Multiple Models: UR35-L04EU-P-W, UR35-L04EU-G-P,**  
**UR35-L04EU-G-W, UR35-L04EU-W, UR35-L04EU-G,**  
**UR35-L04EU-P, UR35-L04EU, UR35-L04EU-P-W-485,**  
**UR35-L04EU-G-P-485, UR35-L04EU-G-W-485,**  
**UR35-L04EU-W-485, UR35-L04EU-G-485,**  
**UR35-L04EU-P-485, UR35-L04EU-485,**  
**UR35-L04EU-G-P-W-485**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Industrial Cellular Router
<b>Report Number:</b>	XMDN220429-17582E-22D
<b>Report Date:</b>	2022-08-02
<b>Reviewed By:</b>	Rocky Xiao RF Engineer
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## GENERAL INFORMATION

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

<b>EUT Name:</b>		Industrial Cellular Router
<b>EUT Model:</b>		UR35-L04EU-G-P-W
<b>Multiple Models:</b>		UR35-L04EU-P-W, UR35-L04EU-G-P, UR35-L04EU-G-W, UR35-L04EU-W, UR35-L04EU-G, UR35-L04EU-P, UR35-L04EU, UR35-L04EU-P-W-485, UR35-L04EU-G-P-485, UR35-L04EU-G-W-485, UR35-L04EU-W-485, UR35-L04EU-G-485, UR35-L04EU-P-485, UR35-L04EU-485, UR35-L04EU-G-P-W-485
<b>Model Difference:</b>		Please refer to the DoS
<b>Rated Input Voltage:</b>		9-48Vdc from Adapter
<b>Adapter Information:</b>	<b>Model:</b>	2ABF060R
	<b>Input:</b>	100-240Vac 50/60Hz 1.7A
	<b>Output:</b>	48Vdc 1.25A
<b>Serial Number:</b>		XMDN220429-17582E-RF-S1(UR35-L04EU-G-P-W)
<b>EUT Received Date:</b>		2022.05.06
<b>EUT Received Status:</b>		Good

### Technical Specification

<b>Operation Frequency Range (MHz)</b>	Band 1: 1920-1980MHz(TX);2110-2170MHz(RX); Band 3: 1710-1785MHz(TX);1805-1880MHz(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);
<b>Max. RF Output Power (Conducted) (dBm):</b>	Band 1: 23.36 Band 3: 22.99 Band 7: 22.12 Band 8: 22.98 Band 20: 22.74 Band 28: 22.52 Band 38: 22.79 Band 40: 22.75
<b>Antenna Gain (dBi)<sup>▲</sup>:</b>	3.64(Max)
<b>Modulation Type:</b>	QPSK, 16-QAM

## Objective

This report is prepared on behalf of *Xiamen Milesight IoT Co., Ltd.* in accordance with ETSI EN 301 908-1 V15.1.1 (2021-09) IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements; ETSI EN 301 908-13 V13.1.1 (2019-11) IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE).

The objective is to determine the compliance of EUT with: ETSI EN 301 908-1 V15.1.1 (2021-09) and ETSI EN 301 908-13 V13.1.1 (2019-11).

## Test Methodology

All measurements contained in this report were conducted with ETSI EN 301 908-1 V15.1.1 (2021-09) IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements; ETSI EN 301 908-13 V13.1.1 (2019-11) IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE).

## Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

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

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## Measurement Uncertainty

Parameter	Flab	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 < finterferer ≤ 3 GHz	±1.5 dB*	±1,3 dB
Receiver Blocking characteristics 3 GHz < finterferer ≤ 12,75 GHz	±3.3 dB*	±3,2 dB
Receiver spurious response 1 MHz < finterferer ≤ 3 GHz	±1.5 dB*	±1,3 dB
Receiver spurious response 3 GHz < finterferer ≤ 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 and EN 301 908-13.

### Equipment Modifications

No modification was made to the EUT.

### EUT Exercise Software

No software was used for testing.

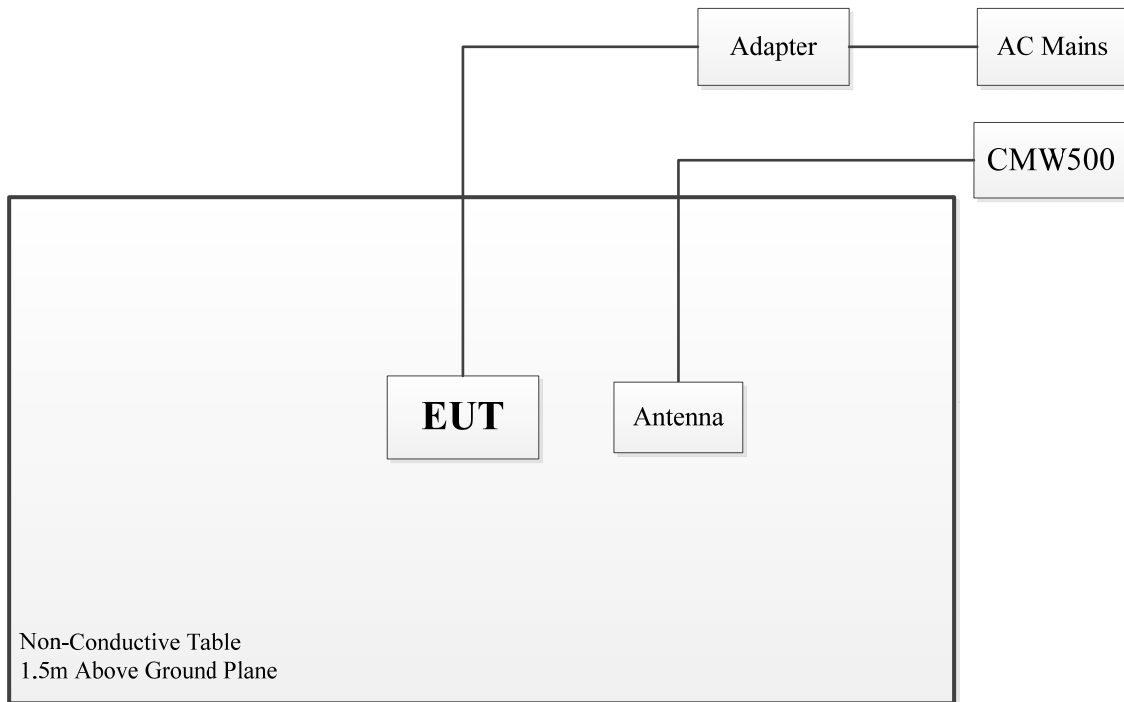
### Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
R&S	Wideband Radio Communication Tester	CMW500	144976

### Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
DC Cable	No	No	1.5	Adapter	EUT

### 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	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
R&S	EMI Test Receiver	ESR3	102453	2021-09-22	2022-09-21
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2021-07-19	2022-07-18
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2021-07-19	2022-07-18
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2021-07-19	2022-07-18
Sonoma	Amplifier	310N	372193	2021-07-18	2022-07-17
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2021-09-04	2022-09-03
Agilent	Signal Generator	E8247C	MY43321350	2022-04-01	2023-03-31
<b>Radiated emissions above 1GHz</b>					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2021-10-12	2024-10-11
Agilent	Spectrum Analyzer	E4440A	SG43360054	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2021-09-04	2022-09-03
AH	Preamplifier	PAM-0118	469	2021-10-13	2022-10-12
TDK RF	Horn Antenna	HRN-0118	130 084	2021-10-12	2024-10-11
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2021-09-04	2022-09-03
Agilent	Signal Generator	E8247C	MY43321350	2022-04-01	2023-03-31

\* 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**

<b>Test Item:</b>	Radiated emissions
<b>Temperature:</b>	22.9~23.4℃
<b>Relative Humidity:</b>	49~59%
<b>ATM Pressure:</b>	<b>100.9kPa</b>
<b>Tester:</b>	Leo Yuan, Bill Yang
<b>Test Date:</b>	2022-05-17

## 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)	Compliant*
4	EN 301 908-13 Clause 4.2.2	Transmitter maximum output power	Compliant*
5	EN 301 908-13 Clause 4.2.3	Transmitter spectrum emission mask	Compliant*
6	EN 301 908-13 Clause 4.2.4	Transmitter spurious emissions	Compliant*
7	EN 301 908-13 Clause 4.2.5	Transmitter minimum output power	Compliant*
8	EN 301 908-13 Clause 4.2.6	Receiver adjacent channel selectivity (ACS)	Compliant*
9	EN 301 908-13 Clause 4.2.7	Receiver blocking characteristics	Compliant*
10	EN 301 908-13 Clause 4.2.8	Receiver spurious response	Compliant*
11	EN 301 908-13 Clause 4.2.9	Receiver intermodulation characteristics	Compliant*
12	EN 301 908-13 Clause 4.2.10	Receiver spurious emissions	Compliant*
13	EN 301 908-13 Clause 4.2.11	Transmitter adjacent channel leakage power ratio	Compliant*
14	EN 301 908-13 Clause 4.2.12	Receiver reference sensitivity level	Compliant*

**Note:**

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

Compliant\*: The Radio module (Name: LTE Cat.4 Module, Model: EC25-EUX) embedded to the EUT was already certified and without any Variation. The test results, please refer to the original report, No.: **RE190617W008-2, GC190617W008.**



## 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.

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
$f_c - 2,5 \times 5 \text{ MHz} < f < f_c + 2,5 \times 5 \text{ MHz}$ (note 2)		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 2)		Not defined	E-UTRA FDD, E-UTRA TDD, Mobile WiMAX™
$f_c - 2,5 \times 10 \text{ MHz} < f < f_c + 2,5 \times 10 \text{ MHz}$ (note 2)		Not defined	UTRA TDD, 7,68 Mcps option
$f_c - 4 \text{ MHz} < f < f_c + 4 \text{ MHz}$ (note 2)		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.

### Test Procedure

According to ETSI EN 301 908-1 V15.1.1 (2021-09) 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	50.74	-59.79	13.40	1.52	-47.91	-30.00	17.91
3900.00	V	50.98	-59.48	13.40	1.52	-47.60	-30.00	17.60
5850.00	H	50.64	-56.16	14.05	1.54	-43.65	-30.00	13.65
5850.00	V	50.39	-56.47	14.05	1.54	-43.96	-30.00	13.96
213.20	H	63.81	-51.53	0.00	0.49	-52.02	-36.00	16.02
216.00	V	62.96	-54.76	0.00	0.49	-55.25	-36.00	19.25

**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)			
1587.54	H	50.87	-68.05	10.03	0.76	-58.78	-47.00	11.78
1549.20	V	50.34	-69.16	9.80	1.02	-60.38	-47.00	13.38
216.68	H	54.65	-60.74	0.00	0.50	-61.24	-57.00	4.24
235.79	V	58.99	-59.67	0.00	0.50	-60.17	-57.00	3.17

**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	53.87	-58.46	13.82	1.61	-46.25	-30.00	16.25
3495.00	V	55.84	-56.50	13.82	1.61	-44.29	-30.00	14.29
5242.50	H	50.78	-57.48	14.13	1.37	-44.72	-30.00	14.72
5242.50	V	50.85	-57.49	14.13	1.37	-44.73	-30.00	14.73
213.27	H	63.53	-51.81	0.00	0.49	-52.30	-36.00	16.30
216.36	V	63.24	-54.50	0.00	0.49	-54.99	-36.00	18.99

**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)			
1877.22	H	50.88	-65.92	11.64	0.94	-55.22	-47.00	8.22
1536.00	V	50.64	-68.88	9.72	1.11	-60.27	-47.00	13.27
216.66	H	54.11	-61.28	0.00	0.49	-61.77	-57.00	4.77
235.74	V	58.77	-59.88	0.00	0.50	-60.38	-57.00	3.38

**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	50.48	-58.30	13.93	1.34	-45.71	-30.00	15.71
5070.00	V	50.98	-57.61	13.93	1.34	-45.02	-30.00	15.02
7605.00	H	50.62	-51.65	13.21	1.40	-39.84	-30.00	9.84
7605.00	V	50.31	-52.36	13.21	1.40	-40.55	-30.00	10.55
151.40	H	61.32	-51.52	0.00	0.38	-51.90	-36.00	15.90
214.60	V	60.44	-57.21	0.00	0.49	-57.70	-36.00	21.70

**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)			
1879.55	H	50.88	-65.89	11.66	0.95	-55.18	-47.00	8.18
1645.02	V	50.64	-68.13	10.42	0.71	-58.42	-47.00	11.42
216.52	H	54.45	-60.94	0.00	0.49	-61.43	-57.00	4.43
235.57	V	58.98	-59.67	0.00	0.50	-60.17	-57.00	3.17

**Band 8 traffic mode middle channel 897.5 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1795.00	H	63.54	-54.28	11.09	0.68	-43.87	-30.00	13.87
1795.00	V	68.54	-49.88	11.09	0.68	-39.47	-30.00	9.47
2692.50	H	60.98	-54.70	13.11	1.25	-42.84	-30.00	12.84
2692.50	V	65.87	-49.93	13.11	1.25	-38.07	-30.00	8.07
3590.00	H	50.65	-61.90	14.07	1.51	-49.34	-30.00	19.34
3590.00	V	50.39	-62.16	14.07	1.51	-49.60	-30.00	19.60
349.40	H	62.51	-50.66	0.00	0.56	-51.22	-36.00	15.22
399.90	V	61.21	-53.01	0.00	0.61	-53.62	-36.00	17.62

**Band 8 idle mode 897.5 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1784.54	H	50.88	-66.89	11.05	0.69	-56.53	-47.00	9.53
1948.25	V	50.38	-67.45	11.90	1.07	-56.62	-47.00	9.62
216.59	H	53.87	-61.52	0.00	0.49	-62.01	-57.00	5.01
235.78	V	58.63	-60.03	0.00	0.50	-60.53	-57.00	3.53

**Band 20 traffic mode middle channel 847 MHz**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1694.00	H	56.54	-60.89	10.76	0.75	-50.88	-30.00	20.88
1694.00	V	57.24	-60.79	10.76	0.75	-50.78	-30.00	20.78
2541.00	H	50.36	-66.05	13.14	1.27	-54.18	-30.00	24.18
2541.00	V	57.47	-59.07	13.14	1.27	-47.20	-30.00	17.20
3388.00	H	50.89	-61.83	14.04	1.63	-49.42	-30.00	19.42
3388.00	V	50.24	-62.57	14.04	1.63	-50.16	-30.00	20.16
349.36	H	62.44	-50.73	0.00	0.56	-51.29	-36.00	15.29
399.94	V	61.52	-52.70	0.00	0.61	-53.31	-36.00	17.31

**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)			
1649.25	H	50.88	-67.22	10.44	0.71	-57.49	-47.00	10.49
1324.58	V	50.64	-67.56	8.47	1.19	-60.28	-47.00	13.28
216.33	H	53.66	-61.72	0.00	0.49	-62.21	-57.00	5.21
235.68	V	58.47	-60.18	0.00	0.50	-60.68	-57.00	3.68

**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	52.62	-65.70	9.26	1.28	-57.72	-30.00	27.72
1451.00	V	51.32	-67.35	9.26	1.28	-59.37	-30.00	29.37
2176.50	H	50.49	-65.99	10.94	1.13	-56.18	-30.00	26.18
2176.50	V	50.84	-65.56	10.94	1.13	-55.75	-30.00	25.75
2902.00	H	50.84	-63.48	13.90	1.35	-50.93	-30.00	20.93
2902.00	V	50.33	-64.29	13.90	1.35	-51.74	-30.00	21.74
349.47	H	63.25	-49.91	0.00	0.56	-50.47	-36.00	14.47
399.94	V	62.23	-52.00	0.00	0.61	-52.61	-36.00	16.61

**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)			
1574.21	H	50.74	-68.26	9.95	0.85	-59.16	-47.00	12.16
1635.98	V	50.64	-68.26	10.35	0.71	-58.62	-47.00	11.62
216.48	H	53.55	-61.84	0.00	0.49	-62.33	-57.00	5.33
235.68	V	58.53	-60.12	0.00	0.50	-60.62	-57.00	3.62

**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	50.64	-56.95	13.99	1.51	-44.47	-30.00	14.47
5190.00	V	50.89	-56.75	13.99	1.51	-44.27	-30.00	14.27
7785.00	H	50.64	-52.10	13.32	1.53	-40.31	-30.00	10.31
7785.00	V	50.22	-52.77	13.32	1.53	-40.98	-30.00	10.98
150.55	H	62.41	-50.38	0.00	0.38	-50.76	-36.00	14.76
58.69	V	59.55	-52.80	-10.90	0.23	-63.93	-36.00	27.93

**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)			
1879.65	H	50.78	-65.99	11.66	0.95	-55.28	-47.00	8.28
1659.32	V	50.99	-67.56	10.52	0.72	-57.76	-47.00	10.76
216.54	H	53.63	-61.76	0.00	0.49	-62.25	-57.00	5.25
235.55	V	58.74	-59.91	0.00	0.50	-60.41	-57.00	3.41

**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	50.58	-60.57	14.40	1.67	-47.84	-30.00	17.84
4700.00	V	50.32	-60.92	14.40	1.67	-48.19	-30.00	18.19
7050.00	H	50.78	-52.81	13.35	1.78	-41.24	-30.00	11.24
7050.00	V	50.68	-52.81	13.35	1.78	-41.24	-30.00	11.24
150.00	H	61.63	-51.13	0.00	0.38	-51.51	-36.00	15.51
57.40	V	58.78	-52.81	-11.50	0.22	-64.53	-36.00	28.53

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

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1465.57	H	50.97	-67.69	9.33	1.30	-59.66	-47.00	12.66
1593.25	V	50.87	-68.58	10.06	0.73	-59.25	-47.00	12.25
216.69	H	53.77	-61.62	0.00	0.50	-62.12	-57.00	5.12
235.35	V	58.98	-59.66	0.00	0.50	-60.16	-57.00	3.16

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.: XMDN220429-17582E-02 EXHIBIT A.

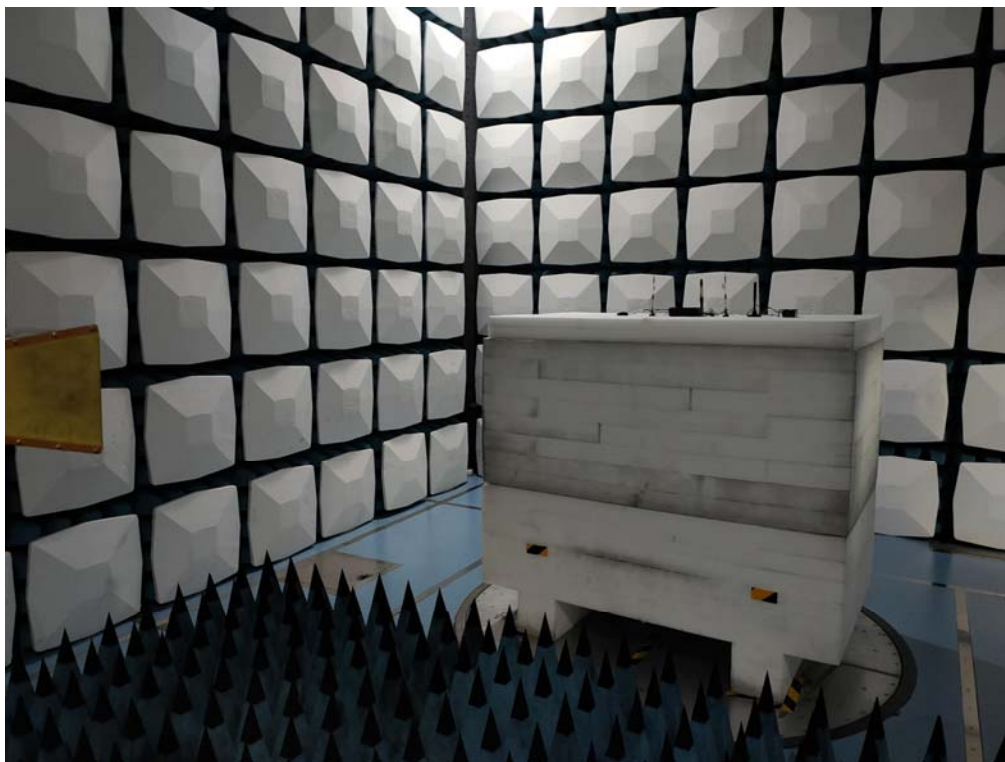


**EXHIBIT B – TEST SETUP PHOTOGRAPHS**

Radiated Emissions Below 1GHz View



Radiated Emissions Above 1GHz View



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