ETSI EN 301 908-1 V15.1.1 (2021-09)
ETSI EN 301 908-2 V13.1.1 (2020-06)

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

Report Type:	**Product Type:**
Original Report	Industrial Cellular Router

Report Number:	XMDN220429-17582E-22C
Report Date:	2022-10-24
Reviewed By:	Rocky Xiao RF Engineer
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

TABLE OF CONTENTS

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

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

Technical Specification

Operation Frequency Range (MHz)	**Transmit:**	Band I: 1920-1980 Band VIII: 880-915
	Receive:	Band I: 2110-2170 Band VIII: 925-960
Max. RF Output Power (Conducted) (dBm):		Band I: 23.31 Band VIII: 22.85
Antenna Gain (dBi)▲:		3.64(Max)
Modulation Type:		BPSK, QPSK, 16-QAM, 64-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 301 908-2 V13.1.1 (2020-06) IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE),

The objective is to determine the compliance of EUT with: ETSI EN 301 908-1 V15.1.1 (2021-09), ETSI EN 301 908-2 V13.1.1 (2020-06).

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 301 908-2 V13.1.1 (2020-06) IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE).

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 f ≤ 2,2 GHz	±2.5 dB*	±1,5 dB
Transmitter spurious emissions 2,2 GHz < f ≤ 4 GHz	±2.5 dB*	±2,0 dB
Transmitter spurious emissions f > 4 GHz	±2.5 dB	±4,0 dB
Transmitter spurious emissions Co-existence band (≥ -60 dBm)	±2.5 dB*	±2,0 dB
Transmitter spurious emissions Co-existence band (< -60 dBm)	±2.5 dB	±3,0 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 f < 15 MHz offset	±1.5 dB*	±1,4 dB
Receiver Blocking characteristics 15 MHz offset ≤ f ≤ 2,2 GHz	±1.5 dB*	±1,0dB
Receiver Blocking characteristics 2,2 GHz < f ≤ 4 GHz	±2.5 dB*	±1,7dB
Receiver Blocking characteristics 2,2 GHz < f ≤ 4 GHz	±2.5 dB*	±1,7dB
Receiver Blocking characteristics f > 4 GHz	±2.5 dB	±3,1dB
Receiver spurious response f ≤ 2,2 GHz	±1.5 dB	±2,0 dB
Receiver spurious response 2,2 GHz < f ≤ 4 GHz	±1.5 dB	±2,0 dB
Receiver spurious response f > 4 GHz	±2.5 dB	±4,0 dB
Receiver spurious response For UE receive band (-60 dBm)	±2.5 dB	±3,0 dB
Receiver spurious response For UE transmit band (-60 dBm)	±2.5 dB	±3,0 dB
Receiver intermodulation characteristics	±1.3 dB	±1,3 dB
Out of synchronization of handling power DPCCH Ec	±0.6 dB*	±0,4 dB
Out of synchronization of handling power Ior Transmit OFF power	±0.6 dB	±1,0 dB
Transmitter adjacent channel leakage power ratio	±0.8 dB	±0,8 dB

Note 1:
* 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.

Note 2:

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.

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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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing according to EN 301 908-1 & EN 301 908-2.

Equipment Modifications

No modification was made to the EUT.

EUT Exercise Software

No software was used for testing.

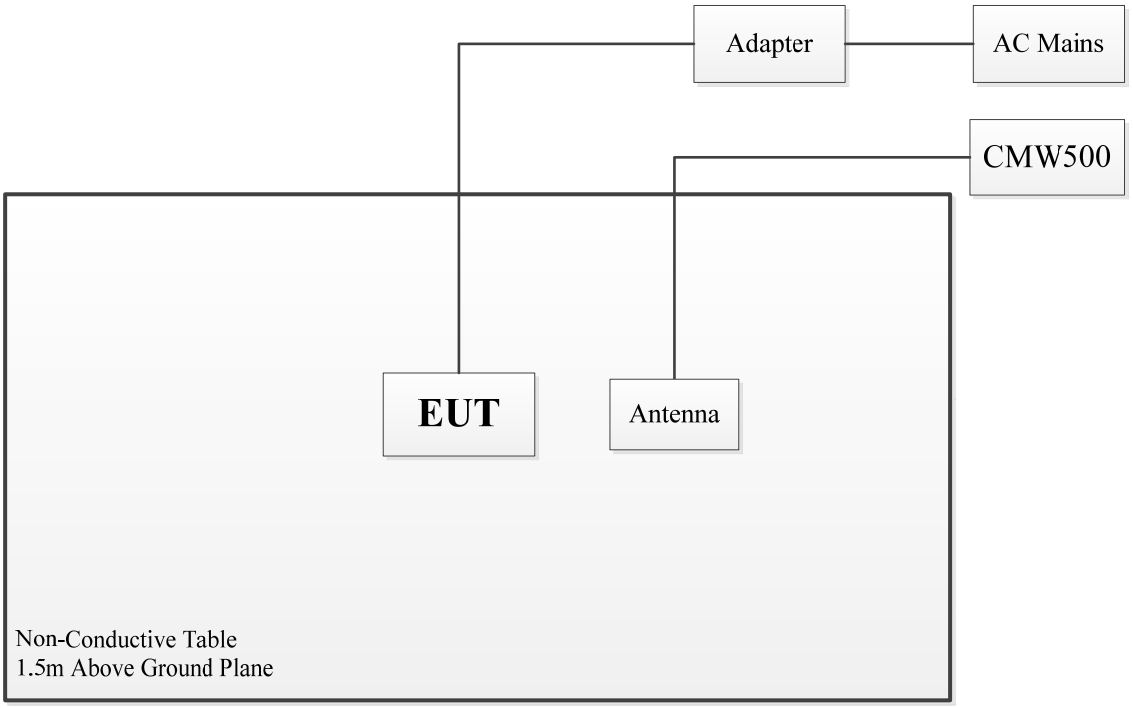
Support Equipment List and Details

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
Radiated emissions below 1GHz					
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
Radiated emissions above 1GHz					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2021-10-12	2023-10-11
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	2023-10-01
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
Mini Circuits	High Pass Filter	VHF-6010+	31118	2021-06-16	2022-06-15
Sinoscite	Band-stop filter	BSF1920-1980MS-0 397-003	0397003	2021-06-16	2022-06-15
Sinoscite	Band-stop filter	BSF880-915MN-038 2-003	0382003	2021-06-16	2022-06-15
Conducted					
R&S	Spectrum Analyzer	FSP 38	100478	2022/7/21	2023/7/20
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	2022/9/4	2023/9/3
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	2022/9/4	2023/9/3
E-Microwave	Blocking Control	EMDCB-00036	OE01203218	2022/5/6	2023/5/5
Sinoscite	Band-stop filter	BSF1920-1980MS-0 397-003	0397003	2022/6/16	2023/6/15
Sinoscite	Band-stop filter	BSF880-915MN-038 2-003	0382003	2022/6/16	2023/6/15
R&S	Wideband Radio Communication Tester	CMW500	144976	2022/4/1	2023/3/31

* 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

Test Item:	Radiated emissions	Conducted
Temperature:	22.6~23.4℃	28.1℃
Relative Humidity:	49~59%	36%
ATM Pressure:	100.9kPa	100.3kPa
Tester:	Leo Yuan, Bill Yang	Chuck Li
Test Date:	2022-05-16~2022-05-17	2022-10-20

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 301 908-2 Clause 4.2.2	Transmitter maximum output power	Compliant*
5	EN 301 908-2 Clause 4.2.3	Transmitter spectrum emission mask	Compliant*
6	EN 301 908-2 Clause 4.2.4	Transmitter spurious emissions	Compliant**
7	EN 301 908-2 Clause 4.2.5	Transmitter minimum output power	Compliant*
8	EN 301 908-2 Clause 4.2.6	Receiver adjacent channel selectivity (ACS)	Compliant*
9	EN 301 908-2 Clause 4.2.7	Receiver blocking characteristics	Compliant*
10	EN 301 908-2 Clause 4.2.8	Receiver spurious response	Compliant*
11	EN 301 908-2 Clause 4.2.9	Receiver intermodulation characteristics	Compliant*
12	EN 301 908-2 Clause 4.2.10	Receiver spurious emissions	Compliant*
13	EN 301 908-2 Clause 4.2.11	Out-of-synchronization handling of output power	Compliant*
14	EN 301 908-2 Clause 4.2.12	Transmitter adjacent channel leakage power ratio	Compliant*
15	EN 301 908-2 Clause 4.2.13	Receiver reference sensitivity level	Compliant*
16	EN 301 908-2 Clause 4.2.14	Receiver Total Radiated Sensitivity (TRS)	Not applicable**
17	EN 301 908-2 Clause 4.2.15	Total Radiated Power (TRP)	Not applicable**

Note:
Not applicable*: This product does not belong to BS or repeater.
Not applicable:** The EUT is not phone.
Compliant*: The Radio module (Name: LTE Cat.4 Module, Model: EC25-EUX) embedded to the EUT was already certified and without any Varietion. The test results, please refer to the original report, No.: **RE190617W008-2, GC190617W008**.
Compliant:** For upgrading of the test standard version, additional testing was performed, besides the test data of the the section in this current document, please refer to the Radio module report, No.: **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 MHz ≤ f < 1 000 MHz	-57 dBm/100 kHz	-36 dBm/100 kHz	All
1 GHz ≤ f < 12,75 GHz	-47 dBm/1 MHz	-30 dBm/1 MHz	All
fc - 2,5 × 5 MHz < f < fc + 2,5 × 5 MHz (note 2)		Not defined	UTRA FDD, UTRA TDD, 3,84 Mcps option, cdma2000, spreading rate 3
fc - 2,5 × $BW_{Channel}$ MHz < f < fc + 2,5 × $BW_{Channel}$ MHz (note 2)		Not defined	E-UTRA FDD, E-UTRA TDD, Mobile WiMAX™
fc - 2,5 × 10 MHz < f < fc1 + 2,5 × 10 MHz (note 2)		Not defined	UTRA TDD, 7,68 Mcps option
fc - 4 MHz < f < fc + 4 MHz (note 2)		Not defined	UTRA TDD, 1,28 Mcps option cdma2000, spreading rate 1
NOTE 1: fc 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 tables:

Band I_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	50.48	-60.05	13.40	1.52	-48.17	-30.00	18.17
3900.00	V	50.62	-59.84	13.40	1.52	-47.96	-30.00	17.96
5850.00	H	50.31	-56.49	14.05	1.54	-43.98	-30.00	13.98
5850.00	V	50.97	-55.89	14.05	1.54	-43.38	-30.00	13.38
349.40	H	60.38	-52.79	0.00	0.56	-53.35	-36.00	17.35
300.20	V	61.69	-55.06	0.00	0.52	-55.58	-36.00	19.58

Band I_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)			
1678.54	H	50.78	-66.88	10.65	0.73	-56.96	-47.00	9.96
1978.35	V	50.61	-67.86	11.96	1.11	-57.01	-47.00	10.01
216.63	H	53.14	-62.25	0.00	0.49	-62.74	-57.00	5.74
235.70	V	58.84	-59.81	0.00	0.50	-60.31	-57.00	3.31

Band VIII_traffic mode_middle channel 897.6 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)			
1795.20	H	50.67	-67.15	11.09	0.68	-56.74	-30.00	26.74
1795.20	V	50.88	-67.54	11.09	0.68	-57.13	-30.00	27.13
2692.80	H	50.79	-64.89	13.11	1.25	-53.03	-30.00	23.03
2692.80	V	50.34	-65.45	13.11	1.25	-53.59	-30.00	23.59
3590.40	H	50.65	-61.90	14.07	1.51	-49.34	-30.00	19.34
3590.40	V	50.98	-61.57	14.07	1.51	-49.01	-30.00	19.01
349.40	H	61.36	-51.81	0.00	0.56	-52.37	-36.00	16.37
300.20	V	61.52	-55.23	0.00	0.52	-55.75	-36.00	19.75

Band VIII_idle mode **897.6 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)			
1786.25	H	50.87	-66.90	11.06	0.69	-56.53	-47.00	9.53
1945.24	V	50.49	-67.27	11.89	1.07	-56.45	-47.00	9.45
216.34	H	54.17	-61.21	0.00	0.49	-61.70	-57.00	4.70
235.78	V	58.96	-59.70	0.00	0.50	-60.20	-57.00	3.20

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

6 – TRANSMITTER SPURIOUS EMISSIONS

Applicable Standard

According to ETSI EN 301 908-2 V11.1.2 (2017-08) §4.2.4, Spurious emissions are emissions, which are caused by unwanted transmitter effects such as harmonics emission, parasitic emission, intermodulation products and frequency conversion products, but exclude out-of-band emissions.

Limit

The power of spurious emissions shall not exceed the limits defined in tables 4.2.4.1.2-1 and 4.2.4.1.2-2. The limits shown in tables 4.2.4.1.2-1 and 4.2.4.1.2-2 are only applicable for frequencies, which are greater than 12,5 MHz away from the UE centre carrier frequency.

Table 4.2.4.1.2-1: General spurious emissions requirements

Frequency bandwidth	Measurement bandwidth	Minimum requirement
9 kHz ≤ f < 150 kHz	1 kHz	-36 dBm
150 kHz ≤ f < 30 MHz	10 kHz	-36 dBm
30 MHz ≤ f < 1 000 MHz	100 kHz	-36 dBm
1 GHz ≤ f < 12,75 GHz	1 MHz	-30 dBm
12,75 GHz ≤ f < 5th harmonic of the upper frequency edge of the UL operating band in GHz	1 MHz	-30 dBm (note)
NOTE: Applies only for Band XXII.		

Table 4.2.4.1.2-2: Additional spurious emissions requirements

Operating band	Frequency bandwidth	Measurement bandwidth	Minimum requirement
I	791 MHz ≤ f ≤ 821 MHz	3,84 MHz	-60 dBm
	921 MHz ≤ f < 925 MHz	100 kHz	-60 dBm (note 1)
	925 MHz ≤ f ≤ 935 MHz	100 kHz	-67 dBm (note 1)
	935 MHz < f ≤ 960 MHz	100 kHz	-79 dBm (note 1)
	1 805 MHz ≤ f ≤ 1 880 MHz	100 kHz	-71 dBm (note 1)
	2 110 MHz ≤ f ≤ 2 170 MHz	3,84 MHz	-60 dBm
	2 585 MHz ≤ f ≤ 2 690 MHz	3,84 MHz	-60 dBm
III	791 MHz ≤ f ≤ 821 MHz	3,84 MHz	-60 dBm
	921 MHz ≤ f < 925 MHz	100 kHz	-60 dBm (note 1)
	925 MHz ≤ f ≤ 935 MHz	100 kHz	-67 dBm (note 1)
	935 MHz < f ≤ 960 MHz	100 kHz	-79 dBm (note 1)
	1 805 MHz ≤ f ≤ 1 880 MHz	3,84 MHz	-60 dBm
	2 110 MHz ≤ f ≤ 2 170 MHz	3,84 MHz	-60 dBm
	2 585 MHz ≤ f ≤ 2 690 MHz	3,84 MHz	-60 dBm
VII	921 MHz ≤ f < 925 MHz	100 kHz	-60 dBm (note 1)
	925 MHz ≤ f ≤ 935 MHz	100 kHz	-67 dBm (note 1)
	935 MHz < f ≤ 960 MHz	100 kHz	-79 dBm (note 1)
	1 805 MHz ≤ f ≤ 1 880 MHz	100 kHz	-71 dBm (note 1)
	2 110 MHz ≤ f ≤ 2 170 MHz	3,84 MHz	-60 dBm
	2 620 MHz ≤ f ≤ 2 690 MHz	3,84 MHz	-60 dBm
	2 590 MHz ≤ f ≤ 2 620 MHz	3,84 MHz	-50 dBm

VIII	791 MHz ≤ f ≤ 821 MHz	3,84 MHz	-60 dBm
	925 MHz ≤ f ≤ 935 MHz	100 kHz 3,84 MHz	-67 dBm (note 1) -60 dBm
	935 MHz < f ≤ 960 MHz	100 kHz 3,84 MHz	-79 dBm (note 1) -60 dBm
	1 805 MHz < f ≤ 1 830 MHz	100 kHz 3,84 MHz	-71 dBm (notes 1 and 2) -60 dBm (note 2)
	1 830 MHz < f ≤ 1 880 MHz	100 kHz 3,84 MHz	-71 dBm (note 1) -60 dBm
	2 110 MHz ≤ f ≤ 2 170 MHz	3,84 MHz	-60 dBm
	2 585 MHz ≤ f ≤ 2 640 MHz	3,84 MHz	-60 dBm
	2 640 MHz ≤ f ≤ 2 690 MHz	3,84 MHz	-60 dBm (note 2)
XV	791 MHz ≤ f ≤ 821 MHz	3,84 MHz	-60 dBm
	921 MHz ≤ f ≤ 925 MHz	100 kHz	-60 dBm (note 1)
	925 MHz ≤ f ≤ 935 MHz	100 kHz 3,84 MHz	-67 dBm (note 1) -60 dBm
	935 MHz ≤ f ≤ 960 MHz	100 kHz	-79 dBm (note 1)
	1 805 MHz ≤ f ≤ 1 880 MHz	100 kHz	-71 dBm (note 1)
	2 110 MHz ≤ f ≤ 2 170 MHz	3,84 MHz	-60 dBm
	2 585 MHz ≤ f ≤ 2 620 MHz	3,84 MHz	-50 dBm
	2 620 MHz ≤ f ≤ 2 690 MHz	3,84 MHz	-60 dBm
XVI	791 MHz ≤ f ≤ 821 MHz	3,84 MHz	-60 dBm
	921 MHz ≤ f ≤ 925 MHz	100 kHz	-60 dBm (note 1)
	925 MHz ≤ f ≤ 935 MHz	100 kHz 3,84 MHz	-67 dBm (note 1) -60 dBm
	935 MHz ≤ f ≤ 960 MHz	100 kHz	-79 dBm (note 1)
	1 805 MHz ≤ f ≤ 1 880 MHz	100 kHz	-71 dBm (note 1)
	2 110 MHz ≤ f ≤ 2 170 MHz	3,84 MHz	-60 dBm
	2 585 MHz ≤ f ≤ 2 620 MHz	3,84 MHz	-50 dBm
	2 620 MHz ≤ f ≤ 2 690 MHz	3,84 MHz	-60 dBm
XX	470 MHz ≤ f ≤ 790 MHz	8 MHz	-65 dBm (note 3)
	791 MHz ≤ f ≤ 821 MHz	3,84 MHz	-60 dBm
	921 MHz ≤ f ≤ 925 MHz	100 kHz	-60 dBm (note 1)
	925 MHz ≤ f ≤ 935 MHz	100 kHz 3,84 MHz	-67 dBm (note 1) -60 dBm
	935 MHz ≤ f ≤ 960 MHz	100 kHz	-79 dBm (note 1)
	1 805 MHz ≤ f ≤ 1 880 MHz	100 kHz	-71 dBm (note 1)
	2 110 MHz ≤ f ≤ 2 170 MHz	3,84 MHz	-60 dBm
	2 585 MHz ≤ f ≤ 2 620 MHz	3,84 MHz	-50 dBm
	2 620 MHz ≤ f ≤ 2 690 MHz	3,84 MHz	-60 dBm
XXII	791 MHz ≤ f ≤ 821 MHz	3,84 MHz	-60 dBm
	921 MHz ≤ f < 925 MHz	100 kHz	-60 dBm (note 1)
	925 MHz ≤ f ≤ 935 MHz	100 kHz 3,84 MHz	-67 dBm (note 1) -60 dBm
	935 MHz < f ≤ 960 MHz	100 kHz	-79 dBm (note 1)
	1 805 MHz ≤ f ≤ 1 880 MHz	100 kHz	-71 dBm (note 1)
	2 110 MHz ≤ f ≤ 2 170 MHz	3,84 MHz	-60 dBm
	2 585 MHz ≤ f ≤ 2 620 MHz	3,84 MHz	-50 dBm
	2 620 MHz ≤ f ≤ 2 690 MHz	3,84 MHz	-60 dBm
	3 510 MHz ≤ f ≤ 3 525 MHz	1 MHz	-40 dBm
	3 525 MHz ≤ f ≤ 3 590 MHz	1 MHz	-50 dBm
	3 600 MHz ≤ f ≤ 3 800 MHz	3,84 MHz	-50 dBm

NOTE 1: The transmitter additional spurious emission measurements are made on frequencies which are integer multiples of 200 kHz. As exceptions, up to five measurements with a level up to the applicable requirements defined in table 4.2.4.1.2-1 are permitted for each UARFCN used in the measurement.

NOTE 2: The transmitter additional spurious emission measurements are made on frequencies which are integer multiples of 200 kHz. As exceptions, measurements with a level up to the applicable requirements defined in table 4.2.4.1.2-1 are permitted for each UARFCN used in the measurement due to 2nd, 3rd and 4th harmonic spurious emissions.

NOTE 3: The conformance shall be assessed using the measurement position placed at the following centre frequencies: 474 MHz, 586 MHz, 690 MHz, 754 MHz, 770 MHz and 786 MHz.

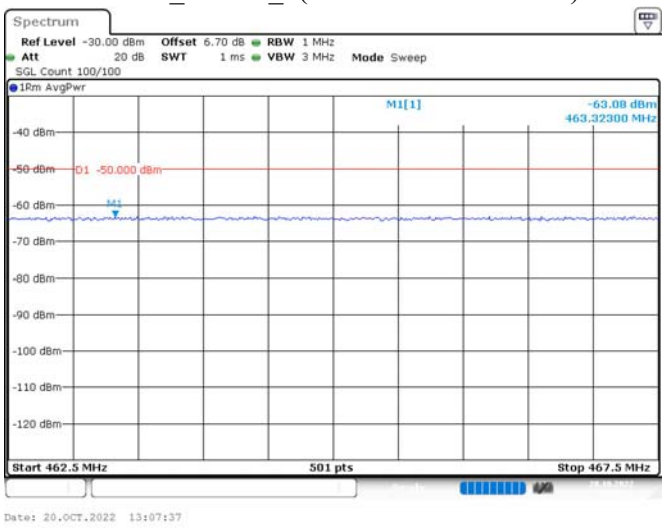
Test Procedure

According to ETSI EN 301 908-2 V11.1.2 (2017-08) clause 5.3.3

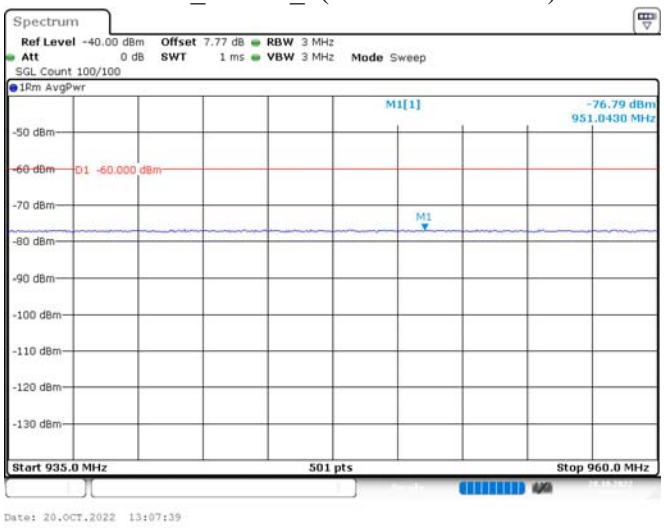
Test Data

Please refer to following plots:

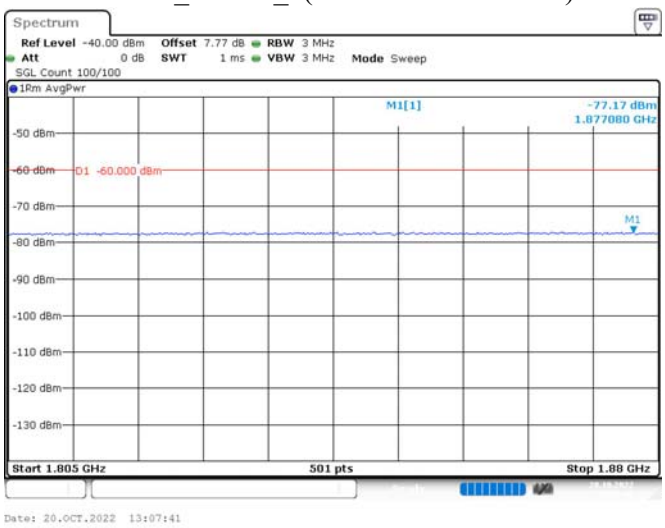
Band 1_Middle_1(462.5MHz-467.5MHz)



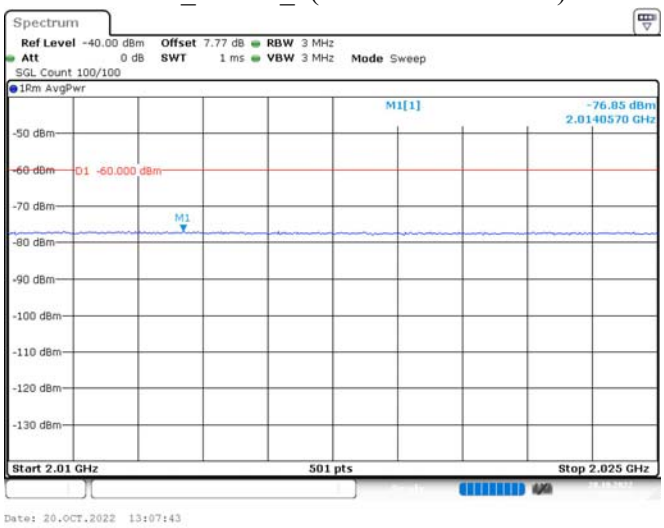
Band 1_Middle_2(935MHz-960MHz)



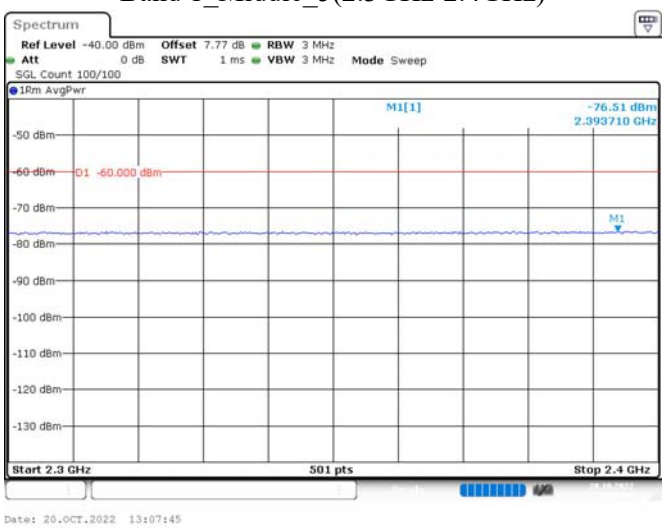
Band 1_Middle_3(1.8050GHz-1.88GHz)



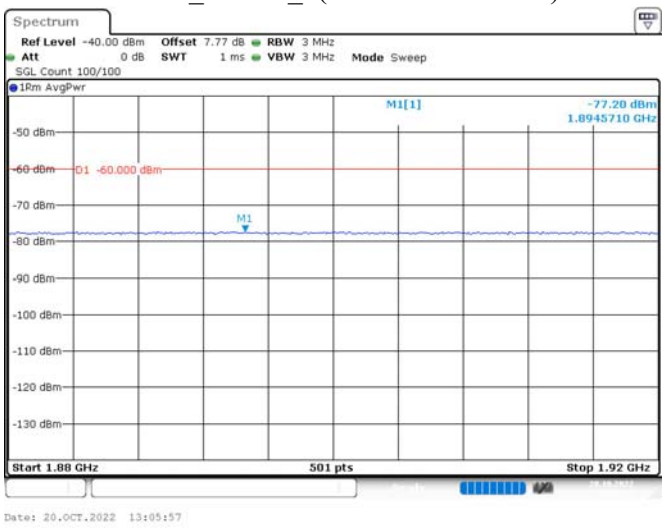
Band 1_Middle_4(2.01GHz-2.025GHz)



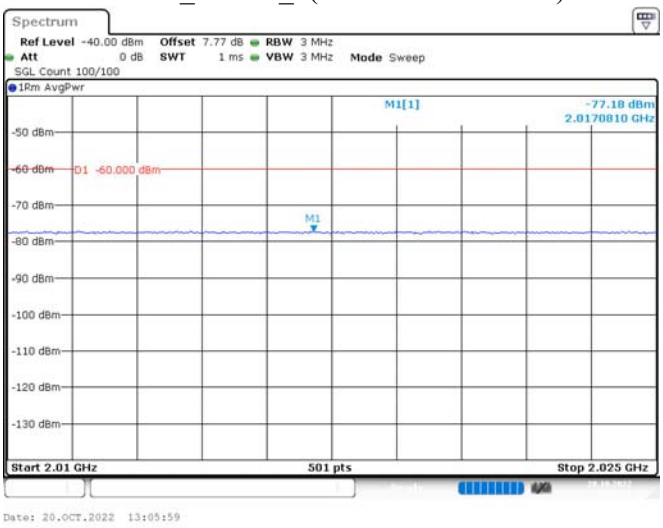
Band 1_Middle_5(2.3GHz-2.4GHz)



Band 8_Middle_1(1.88GHz-1.92GHz)



Band 8_Middle_2(2.01GHz-2.025GHz)



Band 8_Middle_3(2.3GHz-2.4GHz)

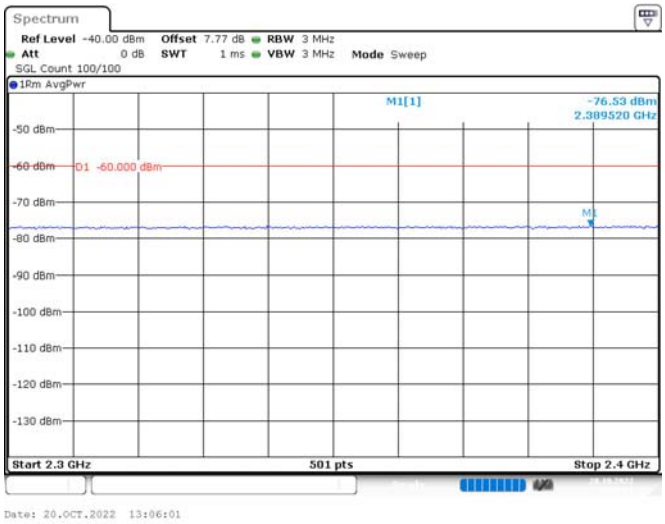


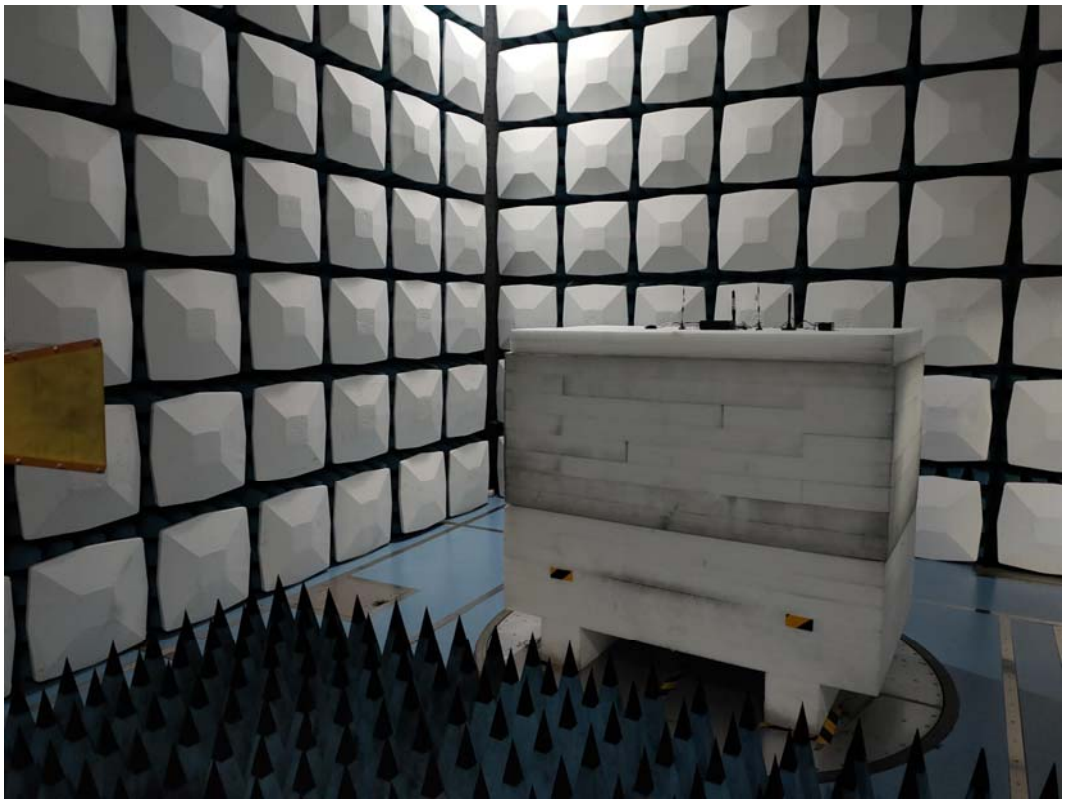
EXHIBIT A – EUT PHOTOGRAPHS

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*******