

RF TEST REPORT

Applicant	Monimoto UAB
FCC ID	2AU3KMM9U-5
Product	GPS tracker
Brand	MONIMOTO
Model	MM9U-5
Report No.	R2310A1102-R3V1
Issue Date	December 19, 2023

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2022)/ FCC CFR47 Part 27C (2022)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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TABLE OF CONTENT

1	Test Laboratory	5
1.1	Notes of the Test Report.....	5
1.2.	Test facility	5
1.3	Testing Location.....	5
2	General Description of Equipment under Test.....	6
2.1	Applicant and Manufacturer Information	6
2.2	General information	6
3	Applied Standards	7
4	Test Configuration	8
5	Test Case	9
5.1	RF Power Output and Effective Isotropic Radiated Power.....	9
5.2	Radiated Spurious Emission	11
6	Test Results.....	14
6.1	RF Power Output and Effective Isotropic Radiated Power.....	14
6.2	Radiated Spurious Emission	15
7	Main Test Instruments	18
ANNEX A: The EUT Appearance.....		19
ANNEX B: Test Setup Photos.....		20

Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	December 12, 2023
Rev.1	Update description.	December 19, 2023
Note: This revised report (Report No.: R2310A1102-R3V1) supersedes and replaces the previously issued report (Report No.: R2310A1102-R3). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 /27.50(d)(4) /27.50(c)(10)	PASS
2	Radiated Spurious Emission	2.1053 /27.53(h) /27.53(g)	PASS
Date of Testing: October 25, 2023 ~ November 20, 2023			
Date of Sample Received: October 20, 2023			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

Only Radiated Spurious Emission is tested for MM9U-5 in this report, and because of the change of antenna gain, Effective Isotropic Radiated Power also re evaluated.

Other test items refer to the Module report (Report No.: MDE_UBLOX_1905_FCC_01_rev01, FCC ID: XPYUBX19KM01, issued date of Grant: 10/20/2022).

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
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E-mail: xukai@ta-shanghai.com

2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Monimoto UAB
Applicant address	Sauletekio al. 15-1, Vilnius ,Lithuania,10224
Manufacturer	Monimoto UAB
Manufacturer address	Sauletekio al. 15-1, Vilnius ,Lithuania,10224

2.2 General information

EUT Description			
Model	MM9U-5		
Lab internal SN	R2310A1102/S01		
Hardware Version	03		
Software Version	4.X.X.X		
Power Supply	External power supply		
Antenna Type	Antenna Sticker		
Antenna Gain	LTE-M Band 4	-4dBi	
	LTE-M Band 12	-8dBi	
Test Mode(s)	LTE-M Band 4/12;		
Test Modulation	QPSK, 16QAM;		
LTE Category	M1		
Maximum E.I.R.P./ E.R.P.	LTE-M Band 4	19.17dBm	
	LTE-M Band 12	12.06dBm	
Rated Power Supply Voltage	5V		
Operating Voltage	Minimum: 4.5V Maximum: 6.0V		
Operating Temperature	Lowest: 5°C Highest: +45°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	LTE-M Band 4	1710 ~ 1755	2110 ~ 2155
	LTE-M Band 12	699 ~ 716	729 ~ 746
EUT Accessory			
RF transceiver	Manufacturer: Monimoto UAB Model: KEY4		
Note:			
1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.			

3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 27C (2022)

FCC CFR47 Part 2 (2022)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Y axis, vertical polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated. Subsequently, only the worst case emissions are reported.

The following testing in LTE-M is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below for LTE Band 4/12:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	O	O	O	O	O	O
Radiated Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 12	O	-	O	O	-	-	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

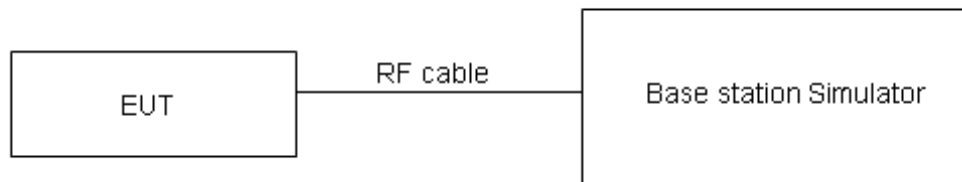
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

$EIRP \text{ (dBm)} = \text{Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$EIRP \text{ (dBm)} = ERP \text{ (dBm)} + 2.15 \text{ (dB.)}$

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(c) (10) specifies that “Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP”

Rule Part 27.50(d) (4) specifies that “Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP”

Part 27.50(c)(10)Limit	≤ 3 W (34.77 dBm)
Part 27.50(d)(4)Limit	≤ 1 W (30 dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB for RF power output, $k = 2$, $U= 1.19$ dB for ERP/EIRP.

Test Results

Refer to the section 6.1 of this report for test data.

5.2 Radiated Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26-2015.
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:

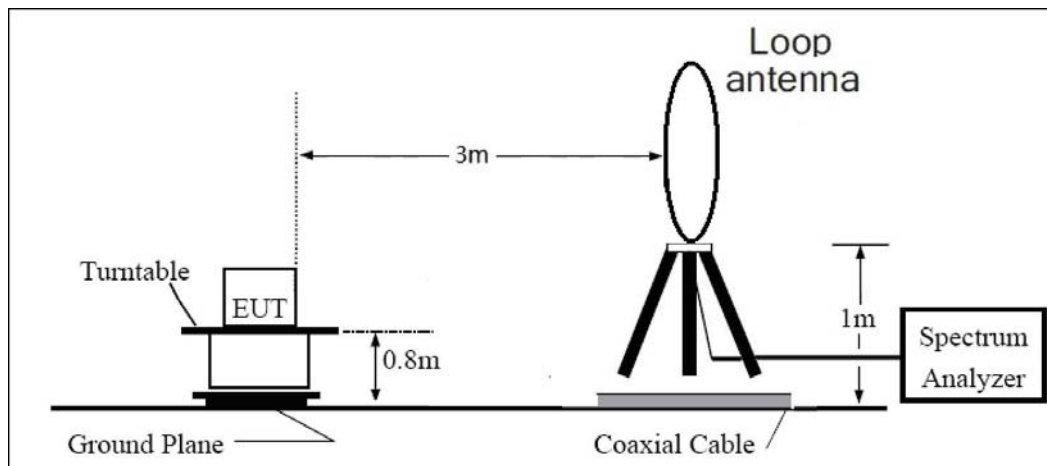
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

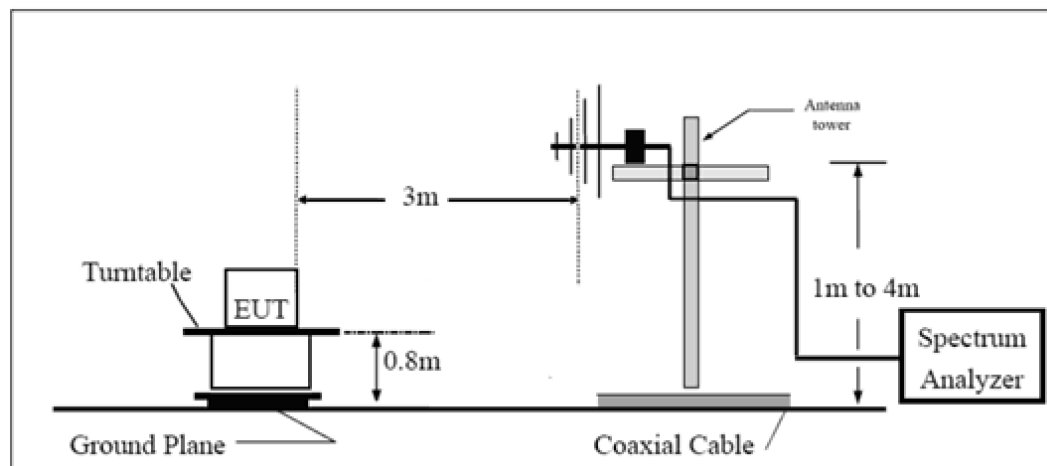
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

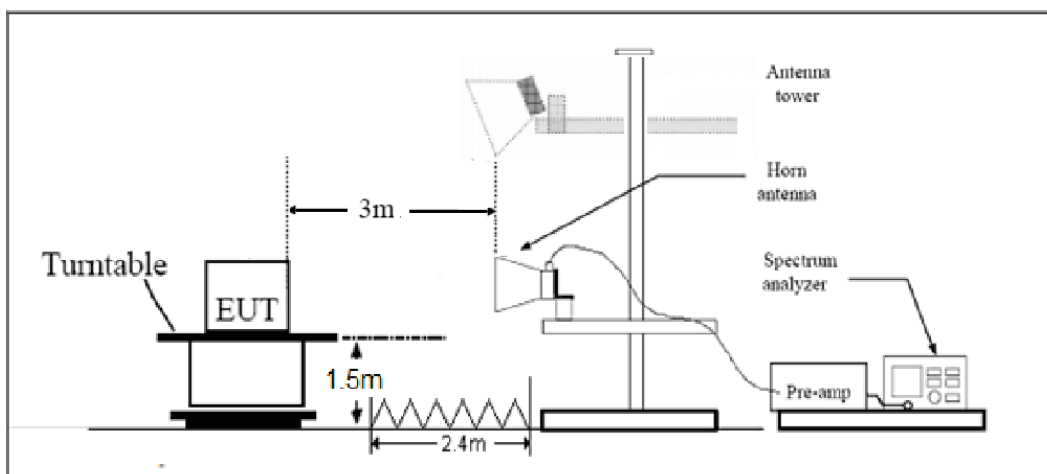
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

Rule Part 27.53(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.”

Rule Part 27.53 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 27.53 (h)/(g) Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Results

Refer to the section 6.7 of this report for test data.

6 Test Results

6.1 RF Power Output and Effective Isotropic Radiated Power

RMS Conducted Power refer to the Module report (Report No.: MDE_UBLOX_1905_FCC_01_rev01, FCC ID: XPYUBX19KM01).

LTE-M Band 4					
Radio Technology	Channel	Resource Blocks Sub-carrier	Bandwidth [MHz]	RMS Conducted Power [dBm]	EIRP [dBm]
QPSK	Low	1	1.4	23.17	19.17
QPSK	Low	3	1.4	21.91	17.91
QPSK	Low	6	1.4	20.35	16.35
QPSK	Middle	1	1.4	22.93	18.93
QPSK	Middle	3	1.4	21.63	17.63
QPSK	Middle	6	1.4	20.24	16.24
QPSK	High	1	1.4	23.00	19.00
QPSK	High	3	1.4	21.68	17.68
QPSK	High	6	1.4	20.61	16.61
16QAM	Low	1	1.4	21.30	17.30
16QAM	Low	5	1.4	20.45	16.45
16QAM	Middle	1	1.4	21.03	17.03
16QAM	Middle	5	1.4	20.40	16.40
16QAM	High	1	1.4	21.32	17.32
16QAM	High	5	1.4	20.77	16.77

LTE-M Band 12					
Radio Technology	Channel	Resource Blocks Sub-carrier	Bandwidth [MHz]	RMS Conducted Power [dBm]	ERP [dBm]
QPSK	Low	1	1.4	22.21	12.06
QPSK	Low	3	1.4	20.94	10.79
QPSK	Low	6	1.4	20.14	9.99
QPSK	Middle	1	1.4	22.13	11.98
QPSK	Middle	3	1.4	21.15	11.00
QPSK	Middle	6	1.4	20.06	9.91
QPSK	High	1	1.4	22.12	11.97
QPSK	High	3	1.4	21.11	10.96
QPSK	High	6	1.4	20.09	9.94
16QAM	Low	1	1.4	20.77	10.62
16QAM	Low	5	1.4	20.35	10.20
16QAM	Middle	1	1.4	20.66	10.51
16QAM	Middle	5	1.4	20.31	10.16
16QAM	High	1	1.4	20.35	10.20
16QAM	High	5	1.4	20.31	10.16

6.2 Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3463.60	-55.08	2.70	12.70	Vertical	-45.08	-13.00	32.08	135
3	5195.40	-59.66	3.20	12.50	Vertical	-50.36	-13.00	37.36	156
4	6927.20	-68.36	4.20	11.80	Vertical	-60.76	-13.00	47.76	305
5	8659.00	-64.40	4.40	12.50	Vertical	-56.30	-13.00	43.30	226
6	10390.80	-57.67	4.70	11.30	Vertical	-51.07	-13.00	38.07	15
7	12122.60	-52.57	5.20	13.80	Vertical	-43.97	-13.00	30.97	154
8	13854.40	-50.97	5.70	11.30	Vertical	-45.37	-13.00	32.37	119
9	15586.20	-68.71	6.10	16.80	Vertical	-58.01	-13.00	45.01	186
10	17318.00	-63.36	6.10	14.20	Vertical	-55.26	-13.00	42.26	23
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

LTE Band 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.00	-54.47	2.70	12.70	Vertical	-44.47	-13.00	31.47	130
3	5190.00	-60.01	3.20	12.50	Vertical	-50.71	-13.00	37.71	9
4	6920.00	-68.61	4.20	11.80	Vertical	-61.01	-13.00	48.01	226
5	8650.00	-63.42	4.40	12.50	Vertical	-55.32	-13.00	42.32	16
6	10380.00	-59.95	4.70	11.30	Vertical	-53.35	-13.00	40.35	305
7	12110.00	-52.25	5.20	13.80	Vertical	-43.65	-13.00	30.65	155
8	13840.00	-53.18	5.70	11.30	Vertical	-47.58	-13.00	34.58	155
9	15570.00	-68.59	6.10	16.80	Vertical	-57.89	-13.00	44.89	23
10	17300.00	-63.01	6.10	14.20	Vertical	-54.91	-13.00	41.91	2
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

LTE Band 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3445.00	-55.94	2.70	12.70	Vertical	-45.94	-13.00	32.94	98
3	5167.50	-61.40	3.20	12.50	Vertical	-52.10	-13.00	39.10	66
4	6890.00	-67.55	4.20	11.80	Vertical	-59.95	-13.00	46.95	147
5	8612.50	-63.49	4.40	12.50	Vertical	-55.39	-13.00	42.39	305
6	10335.00	-59.26	4.70	11.30	Vertical	-52.66	-13.00	39.66	186
7	12057.50	-52.49	5.20	13.80	Vertical	-43.89	-13.00	30.89	155
8	13780.00	-51.31	5.70	11.30	Vertical	-45.71	-13.00	32.71	108
9	15502.50	-67.98	6.10	16.80	Vertical	-57.28	-13.00	44.28	226
10	17225.00	-62.96	6.10	14.20	Vertical	-54.86	-13.00	41.86	6
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

LTE Band 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-39.23	1.70	8.70	Vertical	-34.38	-13.00	21.38	52
3	2122.50	-26.32	2.10	11.10	Vertical	-19.47	-13.00	6.47	52
4	2830.00	-48.66	2.30	13.10	Vertical	-40.01	-13.00	27.01	142
5	3537.50	-39.46	2.60	12.70	Vertical	-31.51	-13.00	18.51	25
6	4245.00	-61.44	3.30	12.50	Vertical	-54.39	-13.00	41.39	214
7	4952.50	-54.73	3.40	12.50	Vertical	-47.78	-13.00	34.78	274
8	5660.00	-60.36	3.30	12.50	Vertical	-53.31	-13.00	40.31	38
9	6367.50	-59.50	3.80	11.50	Vertical	-53.95	-13.00	40.95	28
10	7075.00	-57.65	4.20	11.80	Vertical	-52.20	-13.00	39.20	175
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

LTE Band 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.60	-41.68	1.70	8.70	Vertical	-36.83	-13.00	23.83	0
3	2115.90	-30.26	2.10	11.10	Vertical	-23.41	-13.00	10.41	40
4	2821.20	-47.66	2.30	13.10	Vertical	-39.01	-13.00	26.01	184
5	3512.50	-39.04	2.60	12.70	Vertical	-31.09	-13.00	18.09	68
6	4215.00	-61.71	3.30	12.50	Vertical	-54.66	-13.00	41.66	27
7	4917.50	-57.87	3.40	12.50	Vertical	-50.92	-13.00	37.92	23
8	5620.00	-60.67	3.30	12.50	Vertical	-53.62	-13.00	40.62	178
9	6322.50	-58.91	3.80	11.50	Vertical	-53.36	-13.00	40.36	22
10	7025.00	-57.92	4.20	11.80	Vertical	-52.47	-13.00	39.47	17

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1406.40	-39.97	1.70	8.70	Vertical	-35.12	-13.00	22.12	52
3	2109.60	-32.02	2.10	11.10	Vertical	-25.17	-13.00	12.17	109
4	2812.80	-46.81	2.30	13.10	Vertical	-38.16	-13.00	25.16	175
5	3516.00	-39.17	2.60	12.70	Vertical	-31.22	-13.00	18.22	222
6	4245.00	-61.70	3.30	12.50	Vertical	-54.65	-13.00	41.65	142
7	4952.50	-54.18	3.40	12.50	Vertical	-47.23	-13.00	34.23	78
8	5660.00	-61.33	3.30	12.50	Vertical	-54.28	-13.00	41.28	96
9	6367.50	-55.06	3.80	11.50	Vertical	-49.51	-13.00	36.51	78
10	7075.00	-57.73	4.20	11.80	Vertical	-52.28	-13.00	39.28	68

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV30	104028	2023-05-12	2024-05-11
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	01439	2021-06-30	2024-06-29
Horn Antenna	SCHWARZBECK	BBHA 9120D	01799	2022-09-01	2025-08-31
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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