

RF TEST REPORT

Applicant	MOOV TECHNOLOGY (S) PTE. LTD.
FCC ID	2BBXKRYBIT820
Product	IoT-Box
Brand	Rybit
Model	Rybit820-NA
Report No.	R2305A0558-R2
Issue Date	August 16, 2023

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2022)/ FCC CFR 47 Part 24E (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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Summary of measurement results

No.	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 24.232(c)	PASS
2	Radiated Spurious Emission	2.1053 / 24.238(a)	PASS
Date of Testing: June 26, 2023 ~ July 17, 2023 Date of Sample Received: June 14, 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.			

This report only tests Radiated Spurious Emission, and because of the change of antenna gain, RF Power Output and Effective Radiated Power also re-evaluated. Other test items refer to the module report (FCC ID: XMR201606EC21A; Report No.:RTWK160719001-00).

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.
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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	MOOV TECHNOLOGY (S) PTE. LTD.
Applicant address	331 North Bridge Road #12-03 Odeon Towers, Singapore
Manufacturer	Micro-Star International Co., Ltd.
Manufacturer address	NO.69, LIDE St., ZHONGHE DISTRICT, NEW TAIPEI CITY / TAIWAN

2.2. General information

EUT Description			
Model	Rybit820-NA		
SN	MPY23AA03001573		
Hardware Version	1.0.0		
Software Version	1.0.0		
Power Supply	External power supply		
Antenna Type	Internal Antenna		
Antenna Gain	0.24 dBi		
Test Mode(s)	WCDMA Band II; LTE Band 2;		
Test Modulation	(WCDMA) BPSK, QPSK,16QAM; (LTE) QPSK, 16QAM;		
Maximum E.I.R.P	WCDMA Band II	23.36 dBm	
	LTE Band 2	24.12 dBm	
Rated Power Supply Voltage	48V		
Operating Voltage	Minimum: 38 V Maximum: 55V		
Operating Temperature	Lowest: -20°C Highest: +50°C		
Testing Temperature	Lowest: -30°C Highest: +50°C		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	WCDMA Band II	1850 ~ 1910	1930 ~ 1990
	LTE Band 2	1850 ~ 1910	1930 ~ 1990
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 CFR 47 Part 24E (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 (X 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 WCDMA/LTE is set based on the maximum RF Output Power.

Test modes are chosen to be reported as the worst case configuration below:

Test items	Modes/Modulation
	WCDMA Band II
RF Power Output and Effective Isotropic Radiated Power	RMC HSDPA/HSUPA HSPA+
Radiated Spurious Emission	RMC

Test modes are chosen to be reported as the worst case configuration below for LTE Band 2:

Test items	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	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Radiated Spurious Emission	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

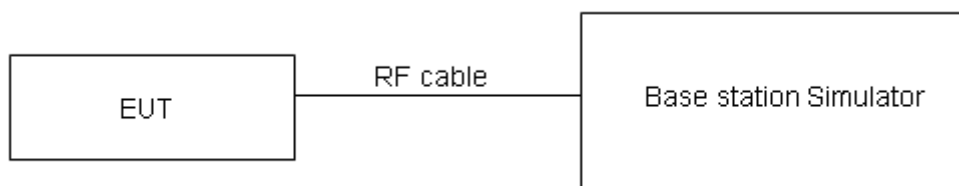
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

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 24.232(c) Mobile and portable stations are limited to 2 watts EIRP.

Rule Part 24.232(e) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Limit	$\leq 2 \text{ W}$ (33 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 $k = 2$, $U = 0.4 \text{ dB}$ for RF power output, $k = 2$, $U = 1.19 \text{ dB}$ for 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 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=1MHz, VBW=3MHz, 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:

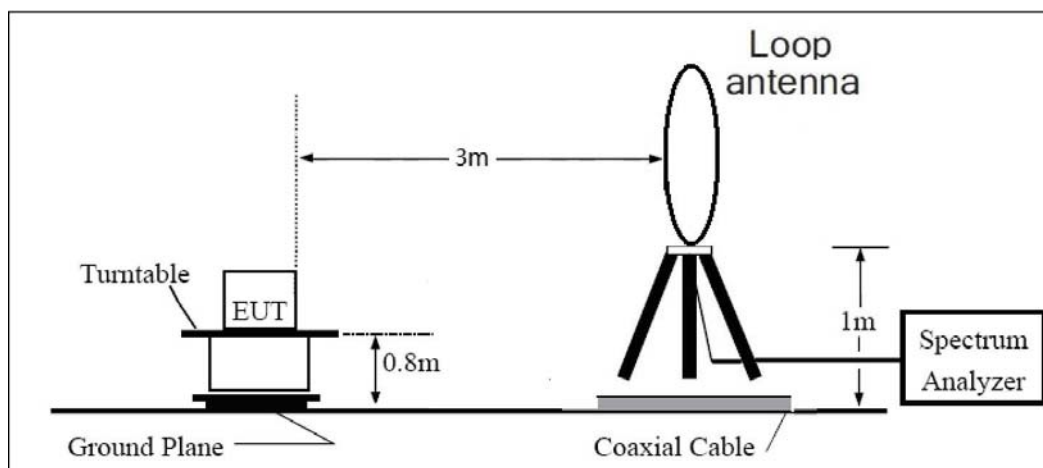
$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP

= EIRP-2.15dB.

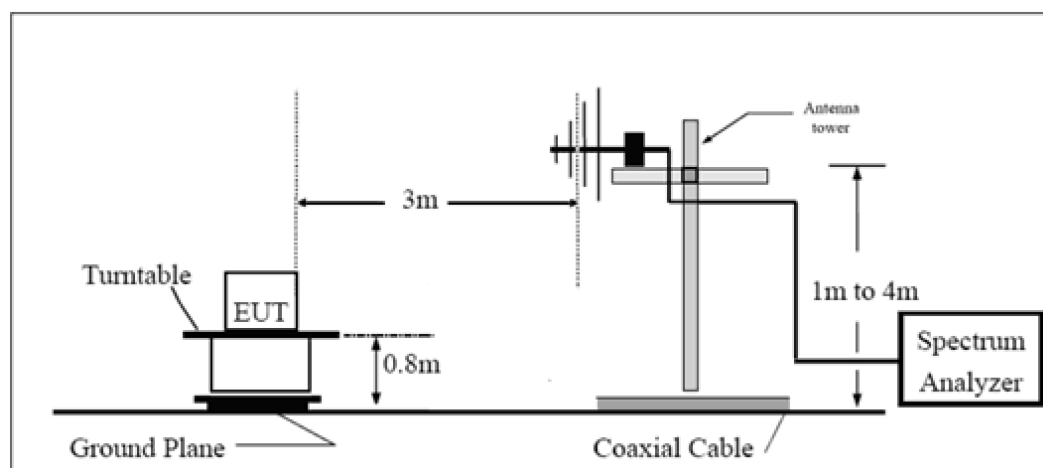
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

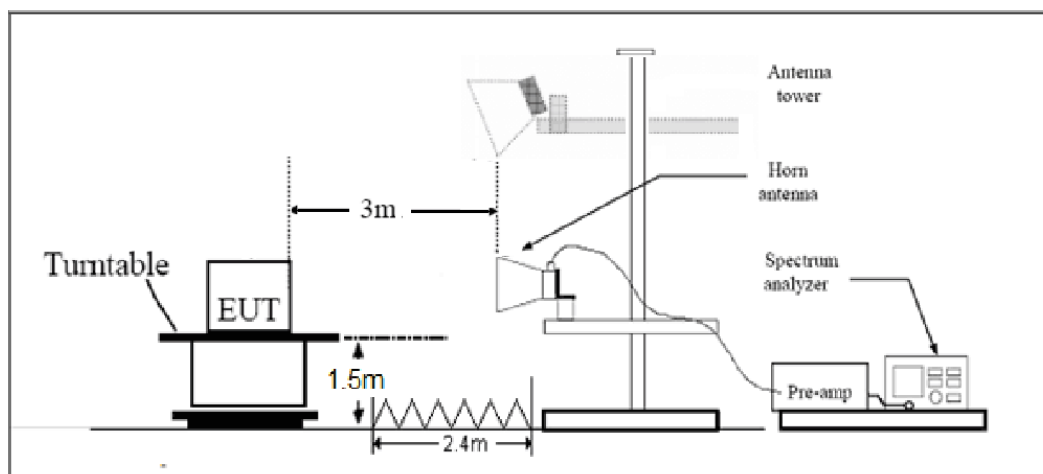
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m

Limits

Rule Part 24.238(a) specifies that “on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10} (P)$ dB.”

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 $k = 1.96$, $U = 3.55$ dB.

Test Results

Refer to the section 6.2 of this report for test data.

6. Test Results

6.1.RF Power Output and Effective Isotropic Radiated Power

Mode	Test Condition	Test Mode	3GPP Sub Test	Maximum Output Power (dBm)			EIRP (dBm)		
				Low Frequency	Middle Frequency	High Frequency	Low Frequency	Middle Frequency	High Frequency
WCDMA (Band II)	Normal	Rel 99	1	22.96	22.92	22.92	23.20	23.16	23.16
		Rel 8 HSDPA	1	23.12	22.81	22.96	23.36	23.05	23.20
			2	23.03	22.91	22.88	23.27	23.15	23.12
			3	22.68	22.75	22.84	22.92	22.99	23.08
			4	22.58	22.77	22.63	22.82	23.01	22.87
		Rel 8 HSUPA	1	22.77	22.92	22.87	23.01	23.16	23.11
			2	22.81	22.72	22.65	23.05	22.96	22.89
			3	22.73	22.53	22.76	22.97	22.77	23.00
			4	22.89	22.77	22.54	23.13	23.01	22.78
			5	22.81	22.75	22.57	23.05	22.99	22.81
		HSPA+	1	23.10	22.83	22.97	23.34	23.07	23.21

LTE Band 2								
Test Bandwidth	Test Modulation	Resource Block & RB offset	Maximum Output Power (dBm)			EIRP (dBm)		
			Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	23.55	23.84	23.62	23.79	24.08	23.86
		1#3	23.48	23.76	23.56	23.72	24.00	23.80
		1#5	23.59	23.78	23.69	23.83	24.02	23.93
		3#0	23.33	23.43	23.37	23.57	23.67	23.61
		3#1	23.27	23.49	23.30	23.51	23.73	23.54
		3#3	23.21	23.38	23.26	23.45	23.62	23.50
		6#0	22.73	22.74	22.58	22.97	22.98	22.82
	16-QAM	1#0	23.02	22.66	22.94	23.26	22.90	23.18
		1#3	22.93	22.60	22.87	23.17	22.84	23.11
		1#5	22.97	22.57	22.81	23.21	22.81	23.05
		3#0	22.57	22.34	22.46	22.81	22.58	22.70
		3#1	22.63	22.42	22.55	22.87	22.66	22.79
		3#3	22.61	22.37	22.51	22.85	22.61	22.75
		6#0	21.98	21.74	21.87	22.22	21.98	22.11
3M	QPSK	1#0	23.74	23.80	23.87	23.98	24.04	24.11

		1#7	23.79	23.69	23.82	24.03	23.93	24.06
		1#14	23.75	23.66	23.84	23.99	23.90	24.08
		8#0	23.39	23.33	23.40	23.63	23.57	23.64
		8#4	23.44	23.37	23.34	23.68	23.61	23.58
		8#7	23.38	23.40	23.38	23.62	23.64	23.62
		15#0	22.80	22.67	22.79	23.04	22.91	23.03
	16-QAM	1#0	22.98	22.78	22.90	23.22	23.02	23.14
		1#7	22.92	22.61	22.85	23.16	22.85	23.09
		1#14	22.94	22.68	22.99	23.18	22.92	23.23
		8#0	22.63	22.64	22.44	22.87	22.88	22.68
		8#4	22.62	22.59	22.51	22.86	22.83	22.75
		8#7	22.55	22.62	22.48	22.79	22.86	22.72
		15#0	22.00	21.56	21.93	22.24	21.80	22.17
5M	QPSK	1#0	23.75	23.81	23.67	23.99	24.05	23.91
		1#12	23.80	23.73	23.63	24.04	23.97	23.87
		1#24	23.67	23.79	23.69	23.91	24.03	23.93
		12#0	23.38	23.42	23.46	23.62	23.66	23.70
		12#6	23.41	23.37	23.33	23.65	23.61	23.57
		12#11	23.34	23.29	23.39	23.58	23.53	23.63
		25#0	22.69	22.85	22.67	22.93	23.09	22.91
	16-QAM	1#0	22.79	22.78	22.46	23.03	23.02	22.70
		1#12	22.72	22.80	22.49	22.96	23.04	22.73
		1#24	22.78	22.82	22.53	23.02	23.06	22.77
		12#0	22.48	22.46	22.22	22.72	22.70	22.46
		12#6	22.37	22.43	22.28	22.61	22.67	22.52
		12#11	22.43	22.38	22.26	22.67	22.62	22.50
		25#0	21.97	21.94	21.85	22.21	22.18	22.09
10M	QPSK	1#0	23.72	23.88	23.72	23.96	24.12	23.96
		1#24	23.66	23.69	23.80	23.90	23.93	24.04
		1#49	23.69	23.77	23.69	23.93	24.01	23.93
		25#0	23.47	23.55	23.48	23.71	23.79	23.72
		25#12	23.49	23.58	23.47	23.73	23.82	23.71
		25#24	23.55	23.52	23.50	23.79	23.76	23.74
		50#0	22.72	22.86	22.84	22.96	23.10	23.08
	16-QAM	1#0	22.78	22.62	22.56	23.02	22.86	22.80
		1#24	22.83	22.51	22.48	23.07	22.75	22.72
		1#49	22.77	22.47	22.63	23.01	22.71	22.87
		25#0	22.58	22.32	22.28	22.82	22.56	22.52
		25#12	22.46	22.29	22.20	22.70	22.53	22.44
		25#24	22.33	22.36	22.29	22.57	22.60	22.53
		50#0	21.84	21.69	21.61	22.08	21.93	21.85
15M	QPSK	1#0	23.71	23.72	23.65	23.95	23.96	23.89
		1#37	23.60	23.69	23.62	23.84	23.93	23.86

		1#74	23.66	23.64	23.69	23.90	23.88	23.93
		36#0	23.40	23.31	23.26	23.64	23.55	23.50
		36#17	23.31	23.36	23.20	23.55	23.60	23.44
		36#35	23.38	23.32	23.27	23.62	23.56	23.51
		75#0	22.78	22.92	22.81	23.02	23.16	23.05
	16-QAM	1#0	22.60	22.73	22.58	22.84	22.97	22.82
		1#37	22.65	22.77	22.51	22.89	23.01	22.75
		1#74	22.71	22.79	22.57	22.95	23.03	22.81
		36#0	22.26	22.45	22.29	22.50	22.69	22.53
		36#17	22.19	22.49	22.21	22.43	22.73	22.45
		36#35	22.13	22.43	22.18	22.37	22.67	22.42
		75#0	21.72	21.60	21.66	21.96	21.84	21.90
20M	QPSK	1#0	23.57	23.71	23.60	23.81	23.95	23.84
		1#49	23.62	23.59	23.55	23.86	23.83	23.79
		1#99	23.64	23.68	23.69	23.88	23.92	23.93
		50#0	23.39	23.38	23.48	23.63	23.62	23.72
		50#24	23.28	23.33	23.40	23.52	23.57	23.64
		50#49	23.32	23.39	23.41	23.56	23.63	23.65
		100#0	22.91	22.97	22.60	23.15	23.21	22.84
	16-QAM	1#0	22.69	22.62	22.85	22.93	22.86	23.09
		1#49	22.64	22.61	22.81	22.88	22.85	23.05
		1#99	22.62	22.58	22.78	22.86	22.82	23.02
		50#0	22.27	22.32	22.46	22.51	22.56	22.70
		50#24	22.30	22.27	22.42	22.54	22.51	22.66
		50#49	22.34	22.30	22.39	22.58	22.54	22.63
		100#0	21.77	21.58	21.73	22.01	21.82	21.97

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.

WCDMA Band II CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-63.10	2.60	12.50	Vertical	-53.20	-13.00	40.20	315
3	5640.00	-48.80	3.30	12.50	Vertical	-39.60	-13.00	26.60	105
4	7520.00	-56.71	4.20	12.20	Vertical	-48.71	-13.00	35.71	186
5	9400.00	-52.88	4.30	11.10	Vertical	-46.08	-13.00	33.08	225
6	11280.00	-49.97	5.90	11.90	Vertical	-43.97	-13.00	30.97	15
7	13160.00	-50.08	5.70	14.00	Vertical	-41.78	-13.00	28.78	315
8	15040.00	-52.66	5.80	13.10	Vertical	-45.36	-13.00	32.36	90
9	16920.00	-52.50	6.10	14.60	Vertical	-44.00	-13.00	31.00	186
10	18800.00	-	6.00	10.10	-	-	-	-	-

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 2 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3759.00	-66.44	2.60	12.50	Vertical	-56.54	-13.00	43.54	307
3	5638.88	-49.26	3.30	12.50	Vertical	-40.06	-13.00	27.06	94
4	7520.00	-53.79	4.20	12.20	Vertical	-45.79	-13.00	32.79	186
5	9400.00	-52.58	4.30	11.10	Vertical	-45.78	-13.00	32.78	30
6	11280.00	-45.14	5.90	11.90	Vertical	-39.14	-13.00	26.14	26
7	13160.00	-50.77	5.70	14.00	Vertical	-42.47	-13.00	29.47	46
8	15040.00	-54.37	5.80	13.10	Vertical	-47.07	-13.00	34.07	225
9	16920.00	-51.62	6.10	14.60	Vertical	-43.12	-13.00	30.12	186
10	18800.00	-	6.00	10.10	-	-	-	-	-

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 2 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3755.63	-64.65	2.60	12.50	Vertical	-54.75	-13.00	41.75	35
3	5633.63	-50.21	3.30	12.50	Vertical	-41.01	-13.00	28.01	35
4	7520.00	-56.25	4.20	12.20	Vertical	-48.25	-13.00	35.25	25
5	9400.00	-46.36	4.30	11.10	Vertical	-39.56	-13.00	26.56	0
6	11280.00	-50.68	5.90	11.90	Vertical	-44.68	-13.00	31.68	15
7	13160.00	-51.20	5.70	14.00	Vertical	-42.90	-13.00	29.90	0
8	15040.00	-54.16	5.80	13.10	Vertical	-46.86	-13.00	33.86	36
9	16920.00	-52.46	6.10	14.60	Vertical	-43.96	-13.00	30.96	35
10	18800.00	-	6.00	10.10	-	-	-	-	-

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 2 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3742.13	-62.32	2.60	12.50	Vertical	-52.42	-13.00	39.42	0
3	5613.38	-46.68	3.30	12.50	Vertical	-37.48	-13.00	24.48	78
4	7484.63	-55.81	4.20	12.20	Vertical	-47.81	-13.00	34.81	65
5	9400.00	-52.80	4.30	11.10	Vertical	-46.00	-13.00	33.00	87
6	11280.00	-47.03	5.90	11.90	Vertical	-41.03	-13.00	28.03	99
7	13160.00	-50.86	5.70	14.00	Vertical	-42.56	-13.00	29.56	35
8	15040.00	-54.27	5.80	13.10	Vertical	-46.97	-13.00	33.97	8
9	16920.00	-54.07	6.10	14.60	Vertical	-45.57	-13.00	32.57	96
10	18800.00	-	6.00	10.10	-	-	-	-	-

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
Wideband radio communication tester	R&S	CMW500	113645	2023-03-16	2024-03-15
Spectrum Analyzer	R&S	FSV30	104028	2023-05-12	2024-05-11
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
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance is submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos is submitted separately.

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