





RF TEST REPORT

Applicant UAB TELTONIKA TELEMATICS

FCC ID 2A3HUFMM880

Product Fleet Management System

Brand TELTONIKA TELEMATICS

Model FMM880-Q3AB0

Report No. R2408A1081-R2

Issue Date September 12, 2024

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC CFR47 Part 2 (2023)/ FCC CFR 47 Part 24E (2023). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Xu Ying

Approved by: Xu Kai

Eurofins TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China TEL: +86-021-50791141/2/3 FAX: +86-021-50791141/2/3-8000



TABLE OF CONTENT

4
4
4
4
5
5
5
6
7
8
8
9
12
12
15
19
20
21



Summary of measurement results

Report No.: R2408A1081-R2

No.	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic	2.1046	PASS
-	Radiated Power	24.232(c)	
2	Radiated Spurious Emission	2.1053 / 24.238(a)	PASS

Date of Testing: August 28, 2024 ~ August 10, 2024

Date of Sample Received: August 28, 2024

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 Eurofins 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 FMM880-Q3AB0 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.: R2003A0152-R2V1, FCC ID: XMR201910BG95M3).

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 Eurofins 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)

Eurofins 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)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory

Accreditation to perform measurement.

1.3. Testing Location

Company:

Eurofins TA Technology (Shanghai) Co., Ltd.

Address:

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

City:

Shanghai

Post code:

201201

Country:

P. R. China

Contact:

Xu Kai

Telephone:

+86-021-50791141/2/3

Fax:

+86-021-50791141/2/3-8000

Website:

https://www.eurofins.com/electrical-and-electronics

E-mail:

Kain.Xu@cpt.eurofinscn.com



2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	UAB TELTONIKA TELEMATICS
Applicant address	Saltoniskiu st. 9B-1, Vilnius, Lithuania
Manufacturer	UAB TELTONIKA TELEMATICS
Manufacturer address	Saltoniskiu st. 9B-1, Vilnius, Lithuania

2.2. General information

EUT Description							
Model	FMM880-Q3AB0						
SN	MPY23IE0X005305						
Hardware Version	FMM880-11						
Software Version	FMB.Ver.03.28.07						
Power Supply	External power supply	у					
Antenna Type	Internal Antenna						
Antenna Gain	1.04 dBi						
Test Mode(s)	GSM1900; LTE-M Band 2/25;						
Test Modulation	(GSM/GPRS) GMSK,	(EGPRS) GMSK/ 8PSI	ζ;				
Test Modulation	(LTE-M) QPSK, 16QAM;						
LTE Category	M1						
	GSM 1900: 30.87 dBm						
Maximum E.I.R.P	LTE-M Band 2:	21.96 dBm					
	LTE-M Band 25:	5: 21.55 dBm					
Rated Power Supply Voltage	12V						
Operating Voltage	Minimum: 10V Max	kimum: 30V					
Operating Temperature	Lowest: -20°C Hig	ghest: +85°C					
Testing Temperature	Lowest: -30°C Hig	ghest: +50°C					
	Band	Tx (MHz)	Rx (MHz)				
Operating Frequency Reports	GSM1900	1850 ~ 1910	1930 ~ 1990				
Operating Frequency Range(s)	LTE-M Band 2	1850 ~ 1910	1930 ~ 1990				
	LTE-M Band 25	1850 ~ 1915	1930 ~ 1995				

Note:

^{1.} The EUT is sent from the applicant to Eurofins 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 (2023)

FCC CFR47 Part 2 (2023)

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 for GSM Band and Y axis, horizontal polarization for LTE-M Band) 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.

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

Took Home	Modes/Modulation
Test items	GSM 1900
DE Dower Output and Effective Instrume Padiated	GSM
RF Power Output and Effective Isotropic Radiated Power	GPRS
Power	EGPRS
Radiated Spurious Emission	GSM

Test modes are chosen to be reported as the worst case configuration below for LTE-M Band 2/25:

Test items		Baı	ndwid	lth (M	Hz)		Modulation		RB			Test Channel		
	1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	M	Н
RF Power Output and Effective Isotropic Radiated Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiated Spurious Emission	0	-	0	-	-	0	0	-	0	-	-	-	0	,
Note		The mark "O" means that this configuration is chosen for testing. The mark "-" means that this configuration is not testing.												

Eurofins TA Technology (Shanghai) Co., Ltd. TA-MB-05-002R This report shall not be reproduced except in full, without the written approval of Eurofins TA Technology (Shanghai) Co., Ltd.



5. Test Case

5.1.RF Power Output and Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

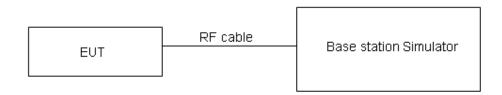
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

EIRP (dBm) = ERP (dBm) + 2.15 (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	≤ 2 W (33 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 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
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

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 (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- 7. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

The measurement results are amend as described below:

Power(EIRP)=PMea- Pcl + 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.

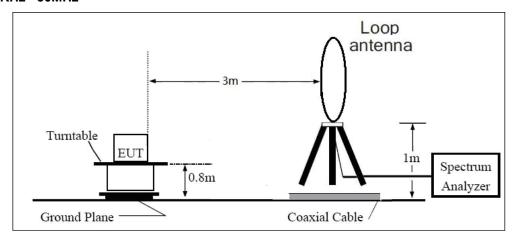
Report No.: R2408A1081-R2

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

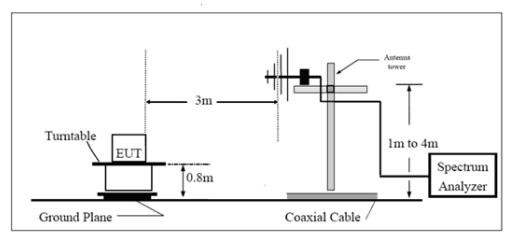
Test setup

eurofins

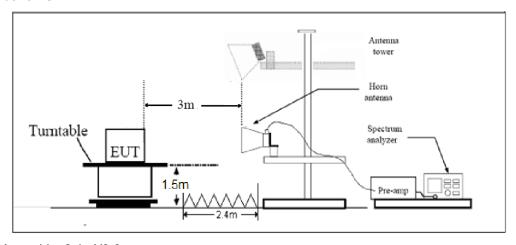
9KHz~30MHz



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 log10 (P) dB."

Limit -13 dBm

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

		Maxim	um Output (dBm)	Power	EIRP (dBm)			
CSM 10	Channel	Channel	Channel	Channel	Channel	Channel		
GSWI 19	GSM 1900			810	512	661	810	
				1909.8	1850.2	1880	1909.8	
	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)		
GSM(GMSK)	Results	29.83	29.74	29.71	30.87	30.78	30.75	
	1TXslot	29.80	29.66	29.59	30.84	30.70	30.63	
GPRS	2TXslots	28.56	28.71	28.50	29.60	29.75	29.54	
(GMSK)	3TXslots	27.90	27.53	27.22	28.94	28.57	28.26	
	4TXslots	26.26	25.87	25.56	27.30	26.91	26.60	
	1TXslot	25.23	25.17	24.78	26.27	26.21	25.82	
EGPRS	2TXslots	24.20	24.04	24.01	25.24	25.08	25.05	
EGPRS	3TXslots	22.45	22.01	21.94	23.49	23.05	22.98	
	4TXslots	21.23	21.02	20.74	22.27	22.06	21.78	

Band 2	Channel/ Frequency	Index	RB# RB start		ed Power Bm)	EIRP (dBm)	
	(MHz)		RD Start	QPSK	16QAM	QPSK	16QAM
	18607/1850.7	0	1#0	20.92	19.64	21.96	20.68
	18007/1830.7	0	6#0	18.71	19.02	19.75	20.06
1.4MHz	18900/1880	0	1#0	19.87	19.61	20.91	20.65
1.41011 12	10900/1000	0	6#0	18.38	18.19	19.42	19.23
	19193/1909.3	0	1#5	20.17	19.08	21.21	20.12
	19193/1909.3	0	6#0	18.35	18.68	19.39	19.72
	18615/1851.5	0	1#0	20.38	19.68	21.42	20.72
	10013/1031.3	0	6#0	18.78	18.91	19.82	19.95
3MHz	18900/1880	0	1#0	20.21	19.27	21.25	20.31
JIVII IZ	10900/1000	0	6#0	18.45	18.73	19.49	19.77
	19185/1908.5	1	1#5	20.02	19.11	21.06	20.15
	19 103/ 1900.3	1	6#0	18.41	18.74	19.45	19.78
	18625/1852.5	0	1#0	20.08	20.29	21.12	21.33
	10023/1032.3	0	6#0	19.47	19.66	20.51	20.70
5MHz	18900/1880	0	1#0	20.05	19.71	21.09	20.75
SIVII IZ	10900/1000	0	6#0	19.24	19.38	20.28	20.42
	19175/1907.5	0	1#5	19.68	20.02	20.72	21.06
	19173/1907.3	3	6#0	19.28	19.40	20.32	20.44

Page 12 of 21



	•						
	19650/1955	3	1#0	19.92	20.19	20.96	21.23
10MHz	18650/1855	0	4#0	20.07	19.83	21.11	20.87
	18900/1880	0	1#0	19.96	19.53	21.00	20.57
	10900/1000	0	4#0	19.78	20.11	20.82	21.15
	19150/1905	4	1#5	19.88	19.51	20.92	20.55
	19150/1905	7	4#2	20.01	20.14	21.05	21.18
	18675/1857.5	3	1#0	20.22	20.11	21.26	21.15
	16075/1657.5	0	6#0	20.13	20.26	21.17	21.30
15MHz	18900/1880	0	1#0	20.14	19.81	21.18	20.85
TOMINZ		0	6#0	20.05	19.95	21.09	20.99
40.	19125/1902.5	8	1#5	19.95	19.51	20.99	20.55
	19125/1902.5	11	6#0	19.88	19.87	20.92	20.91
	18700/1860	3	1#0	20.17	19.96	21.21	21.00
	18700/1800	0	6#0	20.08	20.01	21.12	21.05
20MH-	18900/1880	0	1#0	19.90	19.59	20.94	20.63
20MHz	10900/1000	0	6#0	19.86	19.97	20.90	21.01
	19100/1900	12	1#5	19.76	19.34	20.80	20.38
	19100/1900	15	6#0	19.83	20.04	20.87	21.08

Band 25	Channel/ Frequency	Index	RB# RB start		ed Power Bm)	EIRP	(dBm)
	(MHz)			QPSK	16QAM	QPSK	16QAM
	26047/1850.7	0	1#0	20.51	19.47	21.55	20.51
	20047/1000.7	0	6#0	18.36	18.71	19.40	19.75
1.4MHz	26365/1882.5	0	1#0	19.61	19.32	20.65	20.36
1.4101⊓∠	20303/1002.3	0	6#0	17.95	17.89	18.99	18.93
	26683/1914.3	0	1#5	19.55	19.71	20.59	20.75
20003/1914.	20003/1914.3	0	6#0	18.31	18.13	19.35	19.17
26055/1851.5	0	1#0	19.90	19.63	20.94	20.67	
	20055/1851.5	0	6#0	18.24	18.21	19.28	19.25
	26365/1882.5	0	1#0	19.68	19.44	20.72	20.48
3MHz	20303/1002.3	0	6#0	18.13	18.02	19.17	19.06
	26675/1913.5	1	1#5	19.72	19.58	20.76	20.62
	20075/1915.5	1	6#0	18.21	18.19	19.25	19.23
	26065/1852.5	0	1#0	19.89	20.03	20.93	21.07
	20003/1032.3	0	6#0	19.31	19.45	20.35	20.49
5MHz	26365/1882.5	0	1#0	19.67	19.96	20.71	21.00
SIVITZ	20303/1002.3	0	6#0	19.13	19.21	20.17	20.25
	26665/1012.5	0	1#5	19.66	19.88	20.70	20.92
	26665/1912.5	3	6#0	19.33	19.48	20.37	20.52
	26000/1955	3	1#0	19.78	19.93	20.82	20.97
10MHz	26090/1855	0	4#0	19.79	19.63	20.83	20.67
	26365/1882.5	0	1#0	19.68	19.98	20.72	21.02



	•						
		0	4#0	19.67	19.47	20.71	20.51
	26640/1910	4	1#5	19.64	19.94	20.68	20.98
	20040/1910	7	4#2	19.78	19.52	20.82	20.56
	26115/1857.5	3	1#0	19.88	19.97	20.92	21.01
		0	6#0	19.81	19.91	20.85	20.95
1 5 M LL -		0	1#0	19.71	19.98	20.75	21.02
15MHz 26365/1882.5	0	6#0	19.75	19.84	20.79	20.88	
	26615/1907.5	8	1#5	19.68	19.89	20.72	20.93
	20015/1907.5	11	6#0	19.78	19.89	20.82	20.93
	26140/1860	3	1#0	19.71	19.94	20.75	20.98
	20140/1000	0	6#0	19.87	19.93	20.91	20.97
20MH=	26265/1002.5	0	1#0	19.67	19.85	20.71	20.89
20MHz 26	26365/1882.5	0	6#0	19.76	19.84	20.80	20.88
	26500/1005	12	1#5	19.73	19.87	20.77	20.91
	26590/1905	15	6#0	19.81	19.93	20.85	20.97

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.

Report No.: R2408A1081-R2

GSM 1900 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-66.47	2.60	12.50	Vertical	-56.57	-13.00	43.57	14
3	5640.00	-64.02	3.30	12.50	Vertical	-54.82	-13.00	41.82	75
4	7520.00	-58.48	4.20	12.20	Vertical	-50.48	-13.00	37.48	26
5	9400.00	-56.76	4.30	11.10	Vertical	-49.96	-13.00	36.96	152
6	11280.00	-52.99	5.90	11.90	Vertical	-46.99	-13.00	33.99	75
7	13160.00	-54.20	5.70	14.00	Vertical	-45.90	-13.00	32.90	14
8	15040.00	-53.77	5.80	13.10	Vertical	-46.47	-13.00	33.47	125
9	16920.00	-54.97	6.10	14.60	Vertical	-46.47	-13.00	33.47	14
10	18800.00								

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

LTE Band 2 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3759.00	-67.47	2.60	12.50	Horizontal	-57.57	-13.00	44.57	14
3	5637.30	-64.91	3.30	12.50	Horizontal	-55.71	-13.00	42.71	36
4	7520.00	-58.03	4.20	12.20	Horizontal	-50.03	-13.00	37.03	2
5	9400.00	-54.49	4.30	11.10	Horizontal	-47.69	-13.00	34.69	114
6	11280.00	-51.54	5.90	11.90	Horizontal	-45.54	-13.00	32.54	147
7	13160.00	-52.43	5.70	14.00	Horizontal	-44.13	-13.00	31.13	35
8	15036.40	-52.73	5.80	13.10	Horizontal	-45.43	-13.00	32.43	22
9	16914.20	-53.02	6.10	14.60	Horizontal	-44.52	-13.00	31.52	14
10	18800.00		-	I		1		ı	ł

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.

^{2.} The worst emission was found in the antenna is Horizontal position.



LTE Band 2 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3755.40	-68.15	2.60	12.50	Horizontal	-58.25	-13.00	45.25	21
3	5632.10	-64.67	3.30	12.50	Horizontal	-55.47	-13.00	42.47	135
4	7509.20	-57.41	4.20	12.20	Horizontal	-49.41	-13.00	36.41	251
5	9388.20	-54.09	4.30	11.10	Horizontal	-47.29	-13.00	34.29	46
6	11265.00	-52.31	5.90	11.90	Horizontal	-46.31	-13.00	33.31	87
7	13152.60	-52.33	5.70	14.00	Horizontal	-44.03	-13.00	31.03	12
8	15040.20	-52.53	5.80	13.10	Horizontal	-45.23	-13.00	32.23	254
9	16926.20	-54.00	6.10	14.60	Horizontal	-45.50	-13.00	32.50	13
10	18800.00								

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

LTE Band 2 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3742.30	-68.51	2.60	12.50	Horizontal	-58.61	-13.00	45.61	26
3	5609.90	-65.23	3.30	12.50	Horizontal	-56.03	-13.00	43.03	185
4	7480.80	-57.32	4.20	12.20	Horizontal	-49.32	-13.00	36.32	3
5	9351.40	-54.14	4.30	11.10	Horizontal	-47.34	-13.00	34.34	78
6	11220.60	-53.18	5.90	11.90	Horizontal	-47.18	-13.00	34.18	90
7	13090.80	-52.66	5.70	14.00	Horizontal	-44.36	-13.00	31.36	45
8	14959.20	-51.41	5.80	13.10	Horizontal	-44.11	-13.00	31.11	135
9	16831.00	-53.22	6.10	14.60	Horizontal	-44.72	-13.00	31.72	2
10	18800.00								

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 Horizontal position.

^{2.} The worst emission was found in the antenna is Horizontal position.



RF Test Report

LTE Band 25 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3763.80	-67.03	2.60	12.50	Horizontal	-57.13	-13.00	44.13	189
3	5645.90	-65.07	3.30	12.50	Horizontal	-55.87	-13.00	42.87	76
4	7530.00	-57.67	4.20	12.20	Horizontal	-49.67	-13.00	36.67	40
5	9412.50	-54.62	4.30	11.10	Horizontal	-47.82	-13.00	34.82	275
6	11295.00	-52.17	5.90	11.90	Horizontal	-46.17	-13.00	33.17	263
7	13177.50	-54.20	5.70	14.00	Horizontal	-45.90	-13.00	32.90	101
8	15060.00	-53.02	5.80	13.10	Horizontal	-45.72	-13.00	32.72	2
9	16942.50	-53.61	6.10	14.60	Horizontal	-45.11	-13.00	32.11	251
10	18825.00								

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

LTE Band 25 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.80	-69.21	2.60	12.50	Horizontal	-59.31	-13.00	46.31	31
3	5641.30	-65.29	3.30	12.50	Horizontal	-56.09	-13.00	43.09	64
4	7530.00	-57.68	4.20	12.20	Horizontal	-49.68	-13.00	36.68	215
5	9412.50	-53.94	4.30	11.10	Horizontal	-47.14	-13.00	34.14	255
6	11295.00	-52.56	5.90	11.90	Horizontal	-46.56	-13.00	33.56	312
7	13177.50	-53.80	5.70	14.00	Horizontal	-45.50	-13.00	32.50	182
8	15060.00	-53.05	5.80	13.10	Horizontal	-45.75	-13.00	32.75	3
9	16942.50	-53.35	6.10	14.60	Horizontal	-44.85	-13.00	31.85	0
10	18825.00					-		-	-

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 Horizontal position.

^{2.} The worst emission was found in the antenna is Horizontal position.



LTE Band 25 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3747.30	-68.63	2.60	12.50	Horizontal	-58.73	-13.00	45.73	245
3	5620.70	-64.05	3.30	12.50	Horizontal	-54.85	-13.00	41.85	220
4	7496.00	-56.06	4.20	12.20	Horizontal	-48.06	-13.00	35.06	84
5	9370.00	-52.85	4.30	11.10	Horizontal	-46.05	-13.00	33.05	295
6	11244.00	-52.63	5.90	11.90	Horizontal	-46.63	-13.00	33.63	0
7	13118.00	-52.77	5.70	14.00	Horizontal	-44.47	-13.00	31.47	309
8	14992.00	-51.37	5.80	13.10	Horizontal	-44.07	-13.00	31.07	295
9	16866.00	-53.71	6.10	14.60	Horizontal	-45.21	-13.00	32.21	0
10	18740.00								

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 Horizontal position.



Report No.: R2408A1081-R2

7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV30	104028	2024-05-07	2025-05-06
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1439	2024-07-06	2027-07-05
Horn Antenna	SCHWARZBECK	BBHA 9120D	01799	2022-09-01	2025-08-31
Software	R&S	EMC32	10.35.10	1	/



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 *****