





RF TEST REPORT

Applicant UAB TELTONIKA TELEMATICS

FCC ID 2A3HUTAT141

Product Asset Tracker

Brand TELTONIKA TELEMATICS

Model TAT141-Q3IB0

Report No. R2306A0734-R1

Issue Date November 9, 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 22H (2022). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Xn Ying

Prepared by: Xu Ying

Xikei

Approved by: Xu Kai

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

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Summary of Measurement Results

No.	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Radiated Power	2.1046 22.913(a)(5)	PASS
2	Radiated Spurious Emission	2.1053 / 22.917 (a)	PASS

Date of Testing: July 21, 2023 ~ August 7, 2023

Date of Sample Received: June 27, 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, Effective Radiated Power also re evaluated.

For other test items, please refer to Module Report (Report No: R2003A0152-R1 for GSM 850 and LTE-M Band 5; R2003A0152-R4 for NB-IoT Band 5, FCC ID: XMR201910BG95M3).



1. Test Laboratory

1.1. Notes of the Test Report

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(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 Post code: 201201

Country: P. R. China

Contact: Xu Kai

Telephone: +86-021-50791141/2/3

Fax: +86-021-50791141/2/3-8000 Website: http://www.ta-shanghai.com

E-mail: xukai@ta-shanghai.com



2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	UAB TELTONIKA TELEMATICS
Applicant address	Saltoniskiu st. 9B-1, LT-08105, Vilnius, Lithuania
Manufacturer	UAB TELTONIKA TELEMATICS
Manufacturer address	Saltoniskiu st. 9B-1, LT-08105, Vilnius, Lithuania
Factory	UAB TELTONIKA EMS
Factory address	Ditvos st. 6, LT-02121, Vilnius, Lithuania

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2.2. General Information

EUT Description								
Model	TAT141-Q3IB0							
SN	MPH22LH02033088							
Hardware Version	TAT141-20							
Software Version	FMB.Ver.55.00.16							
Power Supply	Battery							
Antenna Type	Internal Antenna							
Antenna Gain	-1.5 dBi							
Test Mode(s)	GSM 850; LTE-M Band	5; NB-IoT Band 5						
	(GSM)GMSK, (EGPRS) GMSK/ 8PSK;						
Test Modulation	(LTE-M) QPSK, 16QAM	1						
	(NB-IoT) BPSK, QPSK							
GPRS Multislot Class	33							
EGPRS Multislot Class 33								
LTE-M Category	M1							
NB-IoT Category	NB2							
NB-IoT Deployment	stand-alone							
NB-IoT Sub-carrier spacing	3.75KHz, 15KHz							
NB-IoT Ntones	single-tone, multi-tone							
	GSM850							
Maximum E.R.P.	LTE-M Band 5	17.22 dBm						
	NB-IoT Band 5	nd 5 17.09 dBm						
Rated Power Supply Voltage	7.2 V							
Operating Voltage	Minimum: 6.12V Max	kimum: 8.28V						
Operating Temperature	Lowest: -20°C High	est: +60°C						
Testing Temperature	Lowest: -30°C High	est: +50°C						
	Band	Tx (MHz)	Rx (MHz)					
Operating Fraguency Banga(s)	GSM850	824 ~ 849	869 ~ 894					
Operating Frequency Range(s)	LTE-M Band 5	824 ~ 849	869 ~ 894					
	NB-IoT Band 5	824 ~ 849 869 ~ 894						
Note: 1. The EUT is sent from the ap	Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.							

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3. Applied Standards

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

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Test standards:

FCC CFR 47 Part 22H (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 (Z axis, horizontal polarization for GSM/ NB-IoT Band; Y axis, horizontal polarization for LTE-M Band) and the worst case was recorded.

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For LTE-M, all mode and data rates and positions and RB size and modulations were investigated.

For NB-IoT, all modes as Subcarrier Spacing, modulations, Channel were investigated.

Subsequently, only the worst case emissions are reported.

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

Test modes are chosen as the worst case configuration below for GSM 850.

Toot items	Modes/Modulation			
Test items	GSM 850			
RF Power Output and Effective Radiated power	GSM/GPRS/EGPRS			
Radiated Spurious Emission	GSM			

Test modes are chosen as the worst case configuration below for LTE-M Band 5.

<u> </u>												
Test items	Bandwidth (MHz) Modulation		ulation	RB				Test Channel				
	1.4	3	5	10	QPSK	16QAM	1	50%	100%	L	М	Н
RF Power Output and Effective Radiated power	0	0	0	0	0	0	0	0	0	0	0	0
Radiated Spurious Emission	0	-	0	0	0	-	0	-	-	-	0	-

Note

- 1. The mark "O" means that this configuration is chosen for testing.
- 2. The mark "-" means that this configuration is not testing.

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Test modes are chosen as the worst case configuration below for NB-IoT Band 5.

Test items	Deployment mode	Subcarrier (kHz	•	Modu	lation	Test	Cha	nnel
	Stand-alone	3.75	15	BPSK	QPSK	L	M	Н
RF Power Output and Effective Radiated power	0	0	0	0	0	0	0	0
Radiated Spurious Emission	0	-	0	-	0	0	0	0

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 Radiated Power

Ambient Condition

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

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Methods of Measurement

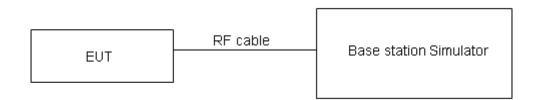
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

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 22.913(a)(5) specifies that "Mobile/portable stations are limited to 7 watts ERP".

Limit	≤ 7 W (38.45 dBm)
Ellille	= 7 VV (00: 10 dB111)

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.

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

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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=100kHz, VBW=300kHz, 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

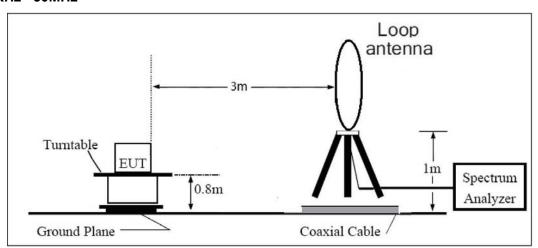
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dB.

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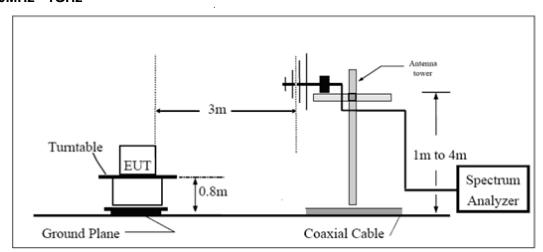
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test Setup

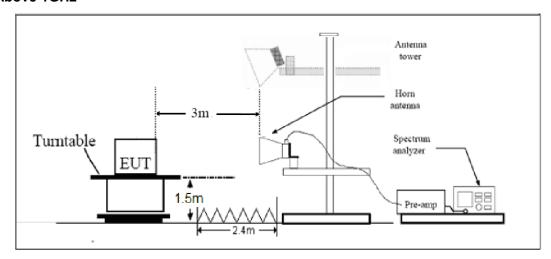
9KHz~30MHz



30MHz~1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m



Limits

Rule Part 22.917(a) specifies that "The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) Db."

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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.



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6. Test Result

6.1. RF Power Output and Effective Radiated Power

	Outp	ut Power(dBm)	ERP (dBm)			
	Channel	Channel	Channel	Channel	Channel	Channel	
GSM 85	128	190	251	128	190	251	
	824.2	836.6	848.8	824.2	836.6	848.8	
		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
GSM	Results	32.13	32.2	32.24	28.48	28.55	28.59
	1TXslot	32.20	32.05	32.07	28.55	28.40	28.42
GPRS/EGPRS	2TXslots	31.05	31.10	31.12	27.40	27.45	27.47
(GMSK)	3TXslots	29.51	29.10	29.14	25.86	25.45	25.49
	4TXslots	27.97	28.10	28.13	24.32	24.45	24.48
	1TXslot	25.07	25.01	25.00	21.42	21.36	21.35
EGPRS	2TXslots	24.32	24.12	24.20	20.67	20.47	20.55
(8PSK)	3TXslots	22.16	22.07	22.42	18.51	18.42	18.77
	4TXslots	20.87	21.02	21.03	17.22	17.37	17.38



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LTE-M Band5	Channel/ Frequency(MHz)	Index	RB# RBstart	•	t Power Bm)	ERP((dBm)
Dallus	Frequency(Winz)		RDStart	QPSK	16QAM	QPSK	16QAM
	20407/824.7	0	1#0	20.87	19.51	17.22	15.86
	20407/024.7	0	6#0	18.82	19.48	15.17	15.83
1.4MHz	20525/836.5	0	1#0	20.24	20.45	16.59	16.80
1.410172	20020/000.0	0	6#0	18.83	18.39	15.18	14.74
	20643/848.3	0	1#5	20.44	19.36	16.79	15.71
	20043/040.3	0	6#0	18.61	19.31	14.96	15.66
	20415/925 5	0	1#0	20.50	20.38	16.85	16.73
	20415/825.5	0	6#0	18.79	19.02	15.14	15.37
3MHz	20525/836.5	0	1#0	20.53	20.07	16.88	16.42
SIVITZ	20525/636.5	0	6#0	18.91	18.99	15.26	15.34
	20635/847.5	1	1#5	20.44	19.42	16.79	15.77
	20033/047.3	1	6#0	18.67	19.09	15.02	15.44
	20425/826.5	0	1#0	20.37	20.68	16.72	17.03
	20425/626.5	0	6#0	19.94	19.73	16.29	16.08
5MHz	20525/836.5	0	1#0	20.41	20.58	16.76	16.93
SIVITZ	20020/000.5	0	6#0	19.97	19.89	16.32	16.24
	20625/846.5	3	1#5	20.03	20.41	16.38	16.76
	20025/640.5	3	6#0	19.86	19.91	16.21	16.26
	20450/829	0	1#0	20.37	20.78	16.72	17.13
	20430/029	0	4#0	20.56	20.28	16.91	16.63
10MHz	20E2E/826 E	0	1#0	20.41	20.74	16.76	17.09
IUIVIMZ	20525/836.5	0	4#0	20.53	20.32	16.88	16.67
	20600/944	7	1#5	20.02	20.34	16.37	16.69
	20600/844	7	4#2	20.30	20.08	16.65	16.43



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NB-IoT	Modula	Sub-carrier	Ntonoo	•	Power (de	•	ERP(dBm)			
Band 5	tion	spacing (KHz)	Ntones	20402/	20525/	20648/	20402/	20525/	20648/	
		(14.12)		824.2	836.5	848.8	824.2	836.5	848.8	
		3.75	1@0	20.71	20.67	20.62	17.06	17.02	16.97	
	BPSK	3.75	1@47	20.64	20.64	20.57	16.99	16.99	16.92	
	BESK	15	1@0	20.68	20.52	20.74	17.03	16.87	17.09	
			1@11	20.67	20.41	20.73	17.02	16.76	17.08	
Standalone		3.75	1@0	20.71	20.70	20.63	17.06	17.05	16.98	
			1@47	20.72	20.48	20.59	17.07	16.83	16.94	
	QPSK	45	1@0	20.65	20.47	20.68	17.00	16.82	17.03	
		15	1@11	20.64	20.55	20.73	16.99	16.90	17.08	
		15	12@0	19.51	19.54	19.35	15.86	15.89	15.70	



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.

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GSM 850 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.20	-59.99	1.70	8.70	Horizontal	-55.14	-13.00	42.14	13
3	2509.80	-53.90	2.30	12.00	Horizontal	-46.35	-13.00	33.35	135
4	3346.40	-63.53	2.70	12.70	Horizontal	-55.68	-13.00	42.68	267
5	4183.00	-63.31	3.00	12.50	Horizontal	-55.96	-13.00	42.96	46
6	5019.60	-59.08	3.40	12.50	Horizontal	-52.13	-13.00	39.13	306
7	5856.20	-60.33	3.40	12.80	Horizontal	-53.08	-13.00	40.08	2
8	6692.80	-58.48	4.10	11.50	Horizontal	-53.23	-13.00	40.23	113
9	7529.40	-55.83	4.20	12.20	Horizontal	-49.98	-13.00	36.98	24
10	8366.00	-56.47	4.30	12.50	Horizontal	-50.42	-13.00	37.42	186

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.

LTE-M Band 5 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.00	-65.60	1.70	8.70	Horizontal	-60.75	-13.00	47.75	75
3	2509.50	-62.80	2.30	12.00	Horizontal	-55.25	-13.00	42.25	14
4	3343.20	-67.73	2.70	12.70	Horizontal	-59.88	-13.00	46.88	44
5	4179.00	-64.67	3.00	12.50	Horizontal	-57.32	-13.00	44.32	75
6	5014.80	-61.75	3.40	12.50	Horizontal	-54.80	-13.00	41.80	14
7	5850.60	-60.88	3.40	12.80	Horizontal	-53.63	-13.00	40.63	34
8	6686.40	-58.49	4.10	11.50	Horizontal	-53.24	-13.00	40.24	17
9	7522.20	-56.07	4.20	12.20	Horizontal	-50.22	-13.00	37.22	277
10	8358.00	-55.12	4.30	12.50	Horizontal	-49.07	-13.00	36.07	222

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.

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LTE-M Band 5 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1668.60	-66.46	1.70	8.70	Horizontal	-61.61	-13.00	48.61	34
3	2503.30	-63.35	2.30	12.00	Horizontal	-55.80	-13.00	42.80	17
4	3336.00	-67.10	2.70	12.70	Horizontal	-59.25	-13.00	46.25	72
5	4170.00	-64.29	3.00	12.50	Horizontal	-56.94	-13.00	43.94	75
6	5004.00	-61.67	3.40	12.50	Horizontal	-54.72	-13.00	41.72	96
7	5838.00	-60.88	3.40	12.80	Horizontal	-53.63	-13.00	40.63	78
8	6672.00	-56.79	4.10	11.50	Horizontal	-51.54	-13.00	38.54	165
9	7506.00	-55.86	4.20	12.20	Horizontal	-50.01	-13.00	37.01	74
10	8340.00	-55.80	4.30	12.50	Horizontal	-49.75	-13.00	36.75	55

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

LTE-M Band 5 10MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1664.40	-62.57	1.70	8.70	Horizontal	-57.72	-13.00	44.72	156
3	2496.60	-63.30	2.30	12.00	Horizontal	-55.75	-13.00	42.75	72
4	3326.00	-65.95	2.70	12.70	Horizontal	-58.10	-13.00	45.10	32
5	4157.50	-64.21	3.00	12.50	Horizontal	-56.86	-13.00	43.86	175
6	4989.00	-62.47	3.40	12.50	Horizontal	-55.52	-13.00	42.52	46
7	5820.50	-59.47	3.40	12.80	Horizontal	-52.22	-13.00	39.22	75
8	6652.00	-59.28	4.10	11.50	Horizontal	-54.03	-13.00	41.03	88
9	7483.50	-55.63	4.20	12.20	Horizontal	-49.78	-13.00	36.78	27
10	8315.00	-55.48	4.30	12.50	Horizontal	-49.43	-13.00	36.43	314

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

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

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



NB-IoT Band 5 15KHz+QPSK CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1648.20	-65.58	1.70	8.70	Horizontal	-60.73	-13.00	47.73	15
3	2472.30	-65.15	2.30	12.00	Horizontal	-57.60	-13.00	44.60	225
4	3296.40	-68.16	2.70	12.70	Horizontal	-60.31	-13.00	47.31	90
5	4120.50	-64.99	3.00	12.50	Horizontal	-57.64	-13.00	44.64	15
6	4944.60	-62.71	3.40	12.50	Horizontal	-55.76	-13.00	42.76	63
7	5768.70	-62.30	3.40	12.80	Horizontal	-55.05	-13.00	42.05	112
8	6592.80	-59.29	4.10	11.50	Horizontal	-54.04	-13.00	41.04	15
9	7416.90	-56.82	4.20	12.20	Horizontal	-50.97	-13.00	37.97	225
10	8241.00	-56.56	4.30	12.50	Horizontal	-50.51	-13.00	37.51	204

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

NB-IoT Band 5 15KHz+QPSK CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.00	-66.09	1.70	8.70	Horizontal	-61.24	-13.00	48.24	204
3	2509.50	-66.34	2.30	12.00	Horizontal	-58.79	-13.00	45.79	315
4	3346.00	-68.17	2.70	12.70	Horizontal	-60.32	-13.00	47.32	315
5	4182.50	-65.08	3.00	12.50	Horizontal	-57.73	-13.00	44.73	135
6	5019.00	-60.76	3.40	12.50	Horizontal	-53.81	-13.00	40.81	225
7	5855.50	-61.15	3.40	12.80	Horizontal	-53.90	-13.00	40.90	309
8	6692.00	-59.51	4.10	11.50	Horizontal	-54.26	-13.00	41.26	120
9	7528.50	-56.32	4.20	12.20	Horizontal	-50.47	-13.00	37.47	240
10	8365.00	-55.89	4.30	12.50	Horizontal	-49.84	-13.00	36.84	167

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

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

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



NB-IoT Band 5 15KHz+QPSK CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1697.80	-66.86	1.70	8.70	Horizontal	-62.01	-13.00	49.01	0
3	2546.70	-66.98	2.30	12.00	Horizontal	-59.43	-13.00	46.43	312
4	3395.60	-68.10	2.70	12.70	Horizontal	-60.25	-13.00	47.25	93
5	4244.50	-64.23	3.00	12.50	Horizontal	-56.88	-13.00	43.88	0
6	5093.40	-61.59	3.40	12.50	Horizontal	-54.64	-13.00	41.64	0
7	5942.30	-61.30	3.40	12.80	Horizontal	-54.05	-13.00	41.05	78
8	6791.20	-60.57	4.10	11.50	Horizontal	-55.32	-13.00	42.32	215
9	7640.10	-57.52	4.20	12.20	Horizontal	-51.67	-13.00	38.67	42
10	8489.00	-55.34	4.30	12.50	Horizontal	-49.29	-13.00	36.29	12

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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.



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7. Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date
Wideband radio communication tester	R&S	CMW500	113645	2023-03-16	2024-03-15
Signal 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	1594	2020-12-17	2023-12-16
Software	R&S	EMC32	10.35.10	1	1



ANNEX A: The EUT Appearance

The EUT Appearance is submitted separately.

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ANNEX B: Test Setup Photos

The Test Setup Photos is submitted separately.

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

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