

FCC RF EXPOSURE REPORT

FCC ID: 2AH4HMT4201

Project No. : 2104C020
Equipment : LTE Cat-M1 Tracker
Brand Name : Mobilogix
Test Model : MT4201E
Series Model : MT4201C
Applicant : Mobilogix, Inc.
Address : 5500 Trabuco Rd Suite 150 Irvine, CA, USA
Manufacturer : Mobilogix, Inc.
Address : 5500 Trabuco Rd Suite 150 Irvine, CA, USA
Factory : Suga Electronics (Dongguan) Co., Ltd.
Address : No.8 Fulong Road, Qingxi Town, Dongguan City
Date of Receipt : Apr. 28, 2021
Date of Test : Apr. 29, 2021 ~ Jun. 10, 2021
Issued Date : Jun. 11, 2021
Report Version : R00
Test Sample : Engineering Sample No.: DG2021042934 for LE,
DG2021050858 for GSM and LTE.
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Trey Chen

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Certificate #5123.02

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jun. 11, 2021

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna:

For LE:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Chip	N/A	0.5

Note: The antenna gain is provided by the manufacturer.

For GSM:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Internal	N/A	-3.62	GSM 850
N/A	N/A	Internal	N/A	-2.65	PCS 1900

Note: The antenna gain is provided by the manufacturer.

For LTE (Cat-M1/Cat-NB2):

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Internal	N/A	-2.65	LTE Band 2
N/A	N/A	Internal	N/A	-4.06	LTE Band 4
N/A	N/A	Internal	N/A	-3.62	LTE Band 5
N/A	N/A	Internal	N/A	-3.71	LTE Band 12
N/A	N/A	Internal	N/A	-4.45	LTE Band 13
N/A	N/A	Internal	N/A	-3.62	LTE Band 26(Part 22)
N/A	N/A	Internal	N/A	-3.80	LTE Band 26(Part 90)
N/A	N/A	Internal	N/A	-4.06	LTE Band 66
N/A	N/A	Internal	N/A	-3.89	LTE Band 71
N/A	N/A	Internal	N/A	-3.71	LTE Band 85

Note: The antenna gain is provided by the manufacturer.

3. TEST RESULTS

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
0.5	1.1220	-0.07	0.9840	0.00022	1	Complies

For GSM:

Band	Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
GSM 850	824.2	32.47	-3.62	0.43	767.36	0.1527	0.5495	Complies
DCS 1900	1850.2	28.67	-2.65	0.54	399.94	0.0796	1.0000	Complies

For LTE (Cat-M1):

Band	Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
Band 2	1855	21.14	-2.65	0.54	70.63	0.0141	1.2367	Complies
Band 4	1732.5	21.32	-4.06	0.39	53.21	0.0106	1.0000	Complies
Band 5	825.5	21.96	-3.62	0.43	68.23	0.0136	0.5503	Complies
Band 12	707.5	21.74	-3.71	0.43	63.53	0.0126	0.4717	Complies
Band 13	779.5	21.97	-4.45	0.36	56.49	0.0112	0.5197	Complies
Band 26 (Part 22)	831.5	22.28	-3.62	0.43	73.45	0.0146	0.5543	Complies
Band 26 (Part 90)	814.7	22.53	-3.80	0.42	74.64	0.0149	0.5431	Complies
Band 66	1715	21.50	-4.06	0.39	55.46	0.0110	1.0000	Complies
Band 85	707	21.48	-3.71	0.43	59.84	0.0119	0.4713	Complies

For LTE (Cat-NB2):

Band	Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
Band 2	1909.9	20.89	-2.65	0.54	66.68	0.0133	1.0000	Complies
Band 4	1710.1	21.36	-4.06	0.39	53.70	0.0107	1.0000	Complies
Band 5	824.1	21.67	-3.62	0.43	63.83	0.0127	0.5494	Complies
Band 12	699.1	21.41	-3.71	0.43	58.88	0.0117	0.4661	Complies
Band 13	777.1	21.72	-4.45	0.36	53.33	0.0106	0.5181	Complies
Band 26 (Part 22)	824.1	22.02	-3.62	0.43	69.18	0.0138	0.5494	Complies
Band 26 (Part 90)	819	22.13	-3.80	0.42	68.08	0.0135	0.5460	Complies
Band 66	1710.1	20.37	-4.06	0.39	42.76	0.0085	1.0000	Complies
Band 71	663.2	21.38	-3.89	0.41	56.10	0.0112	0.4421	Complies
Band 85	698.2	21.30	-3.71	0.43	57.41	0.0114	0.4655	Complies

For the max simultaneous transmission MPE:

Power Density (S) (mW/cm ²)	Power Density (S) (mW/cm ²)	Total	Limit of Power Density (S) (mW/cm ²)	Test Result
LE	LTE (GSM)			
0.00022	0.1527	0.1529	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report