TEST REPORT

REPORT NUMBER: I21W00006-EMC

ON

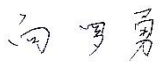
Type of Equipment:	Tracker
Type of Designation:	Pod Lite
Manufacturer:	Micron Electronics LLC.

ACCORDING TO
Subpart B, PART 15, RADIO FREQUENCY DEVICES

Chongqing Academy of Information and Communication Technology

Month date, year
Apr, 19, 2021

Signature



Xiang Luoyong
Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communication Technology.

Revision Version

Report Number	Revision	Date	Memo
I21W00006-EMC	00	2021-04-19	Initial creation of test report

FCC ID:	ZKQ-PPODLT
Report Date:	2021-04-19
Test Firm Name:	Chongqing Academy of Information and Communication Technology
FCC Registration Number:	CN1239

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 15B. The sample tested was found to comply with the requirements defined in the applied rules.

CONTENTS

1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part15B.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

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1.2 Testers

Name:	Chen Xin
Position:	Engineer
Department:	Department of EMC test
Date:	2021-04-19
Signature:	

Editor of this test report:

Name:	Xiao Yu
Position:	Engineer
Department:	Department of EMC test
Date:	2021-04-19
Signature:	

Technical responsibility for area of testing:

Name:	Xiang Luoyong
Position:	Manager
Department:	Department of EMC test
Date:	2021-04-19
Signature:	

1.3 Testing Laboratory information

1.3.1 Location

Name:	Chongqing Academy of Information and Communcations
Address:	Building B, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China, 401336
Tel:	+86 23 88069965
Fax:	+86 23 88608777
Email:	liqiao@caict.ac.cn

1.3.2 Details of accreditation status

Accredited by:	--
Registration number:	--
Standard:	--

1.3.3 Test location, where different from section 1.3.1

Name:	--
Address:	--

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name:	Micron Electronics LLC.
Address:	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
Country:	USA
Telephone:	1 888 538 3489
Fax:	--
Contact:	Ping Cheng
Email:	pcheng@micron-electronics.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name:	Micron Electronics LLC.
Address:	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
Country:	USA

2 Test Item

2.1 General Information

Manufacturer:	Micron Electronics LLC.
Name:	Tracker
Model Number:	Pod Lite
Serial Number:	G4KB2504010058
IMEI:	866884045632239
Production Status:	Product
Receipt date of test item:	2021-03-23

2.2 Outline of EUT

The EUT Pod Lite is a Product supporting CAT M1 Band 2/4/5/12/13, GSM850 and PCS1900.

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	Product	Micron Electronics LLC.	Pod Lite	G4KB2504010058	None

2.5 Other Information

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3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Configuration1		
Specification Clause	Name of Test	Result
15.109	Radiated Emission limits	P

4.Test equipment and Test software

Test equipment Used:						
Number	**Description**	**Manufacturer**	**Model Number**	**Serial Number**	**Cal Due**	**State**
1	EMI Test Receiver	R/S	ESU	100367	2021-06-25	Normal
2	Ultra Broadband Antenna	R/S	VULB 9163	00995	2023-04-03	Normal
3	Double-Ridged Horn Antenna	R/S	HF907	100357	2021-08-20	Normal
4	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	CT000174-1035	2024-01-22	Normal

Test software Used:				
Number	Test item	Test software name	Manufacturer	Version:
1	Radiated Emission	EMC32	R/S	V8.51.0

5 Test Results

5.1 Radiated Emission

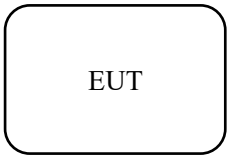
Specifications:	15.109
Date of Tests	2021-03-23-2021-04-19
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	Normal
Test Results:	Pass

Limit Level Construction(Except for Class A digital devices):

Frequency Range (MHz)	Quasi-Peak (dBuV/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

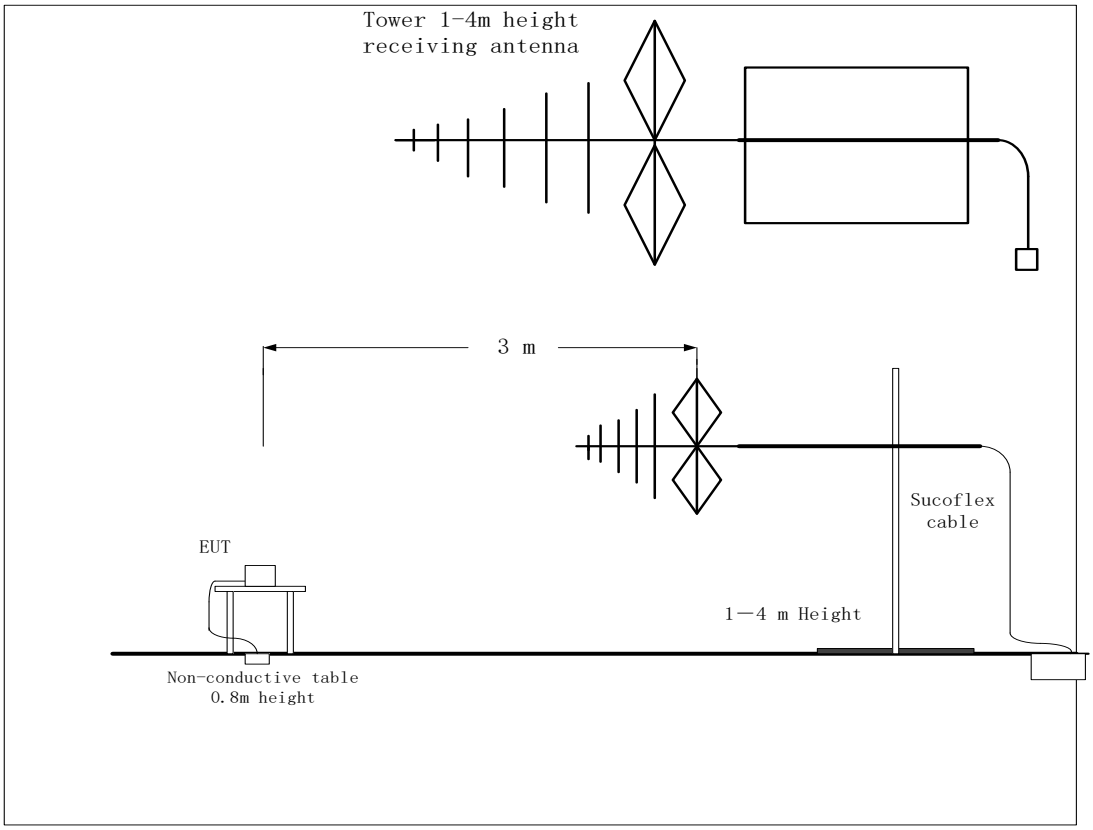
Frequency Range (MHz)	Peak (dBuV/m)	Average (dBuV/m)
Above 1000	74	54

EUT Setup:



EUT is power supplied by battery in the EUT.

Test Setup:



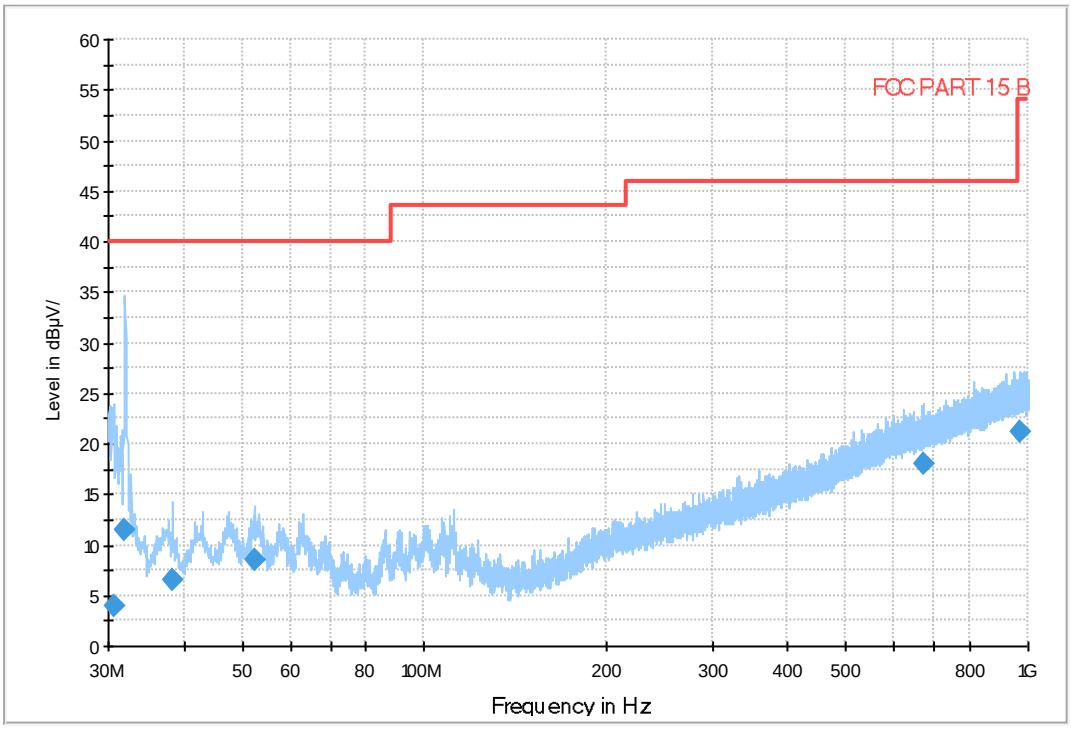
Test Method:

For 30-1000MHz, the EUT was placed on the top of a rotating 0.8m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement. Tested in accordance with the procedures of ANSI C63.4-2014, section 8.3.

For 1000-18000MHz, the maximal emission value was acquired by adjusting the antenna height, and the table was rotated 360 degree to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

Test Data

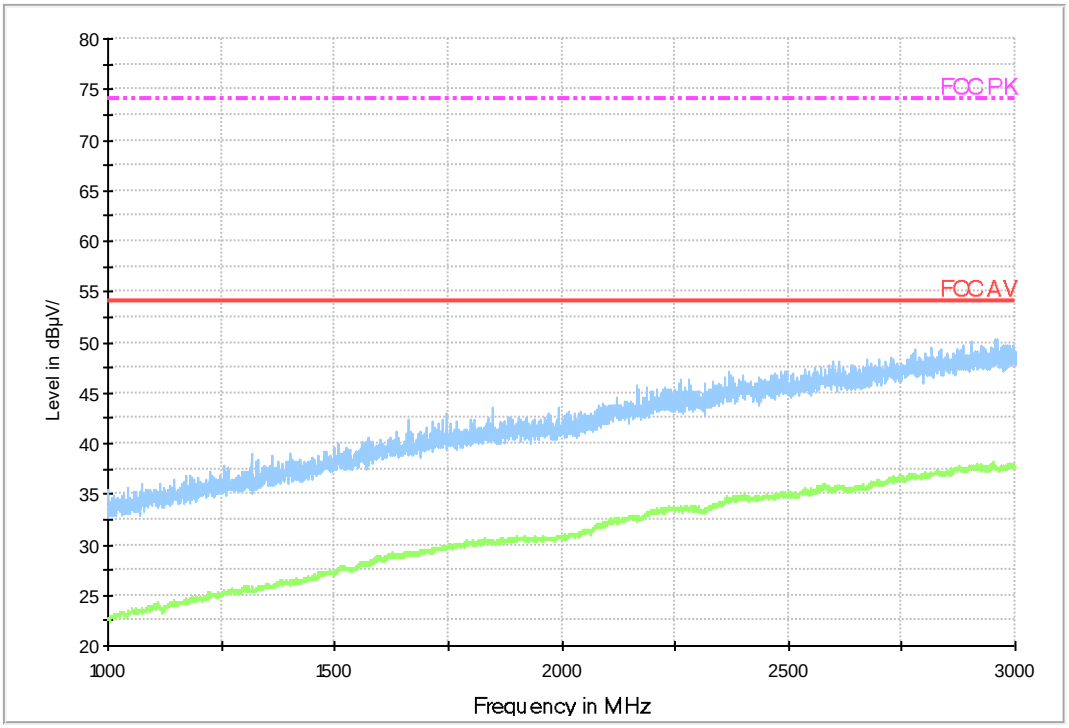
RE 30MHz-1GHz



RE 30M-1G

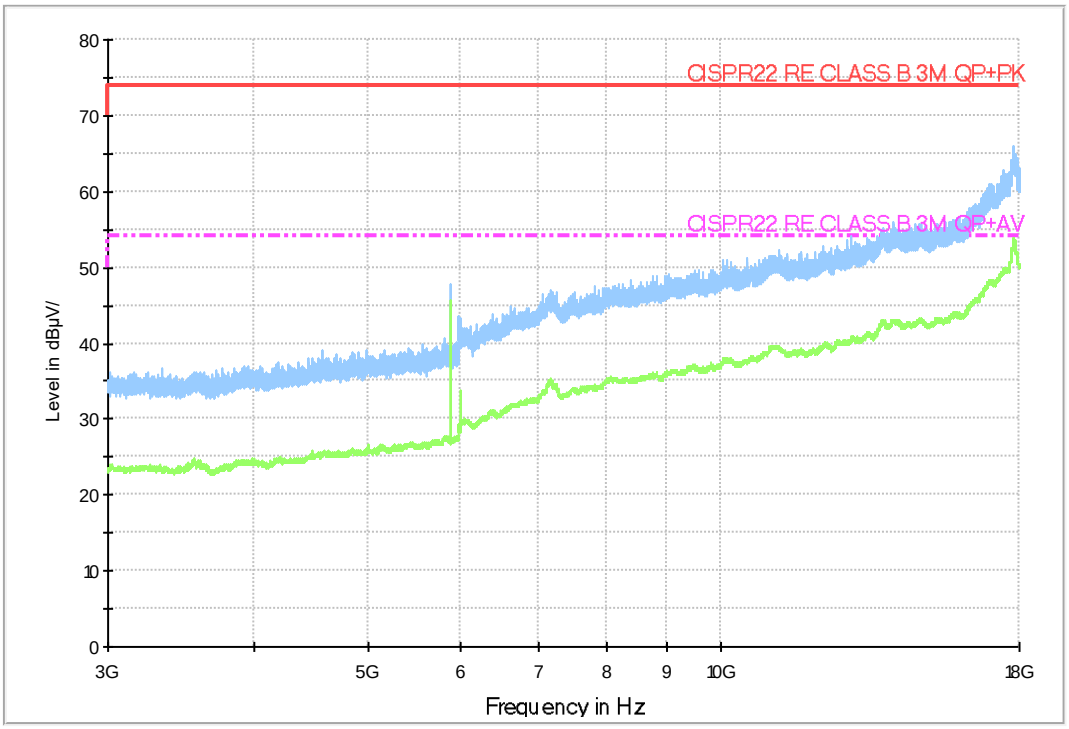
Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.600000	4.0	40.0	36.0	5000.0	120.000	115.0	V	0.0	-20.3
31.940000	11.5	40.0	28.5	5000.0	120.000	115.0	V	0.0	-20.1
38.342000	6.6	40.0	33.4	5000.0	120.000	100.0	V	0.0	-18.8
52.610000	8.4	40.0	31.6	5000.0	120.000	100.0	V	270.0	-17.8
669.730000	18.0	46.0	28.0	5000.0	120.000	215.0	H	270.0	-6.8
967.417000	21.2	54.0	32.8	5000.0	120.000	300.0	V	0.0	-3.5

RE 1GHz-3GHz



RE 1-3G

RE 3GHz-18GHz



RE 3-18G

Test photo

See the Pic1~2 in document" I21W00006_EMC Test Setup Photos".

Annex A External Photos

See the document" I21W00006-External Photos".

Annex B Internal Photos

See the document" I21W00006-Internal Photos".

ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

The End of this Report