



Product Service

## FCC&IC TEST REPORT

Report Number : **68.760.13.041.01** Date of Issue: May 2, 2013

Model : **341041, 339917**

Product Type : **MP7FSv1 Module**

Applicant : **ICON Health & Fitness Inc.**

Address : **1500 South 1000 West, Logan, UT 84321, USA**

Production Facility : **Wanlida Group Co., Ltd.**

Address : **Wanlida Industry Zone, Nanjing, Fujian, China 363601**

Test Result :  **Positive**     **Negative**

Total pages including  
Appendices : 14

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## 2 Details about the Test Laboratory

### Details about the Test Laboratory

Test site1:

Company name: Jiangsu TÜV Product Service Ltd. – Shenzhen Branch  
6th Floor, H Hall,  
Century Craftwork Culture Square,  
No. 4001, Fuqiang Road,  
Futian District 518048,  
Shenzhen,P.R.C.

Telephone: 86 755 8828 6998

Fax: 86 755 8828 5299

Test site2:

Company name: WALTEK SERVICES(SHENZHEN) CO.,LTD.  
1/F,Fukangkai Building, West Baima Rd, Songgang Street, Baoan District,  
Shenzhen, Guangdong, P. R. China

Telephone: 86-755-83551033

Fax: 86-755-83552400



### 3 Description of the Equipment Under Test

#### Description of the Equipment Under Test

Product: MP7FSv1 Module

Model no.: 341041

Options and accessories: NIL

Rating: DC 12V  
Powered by external power supply:  
Adaptor Input: 100-240VAC, 50/60Hz  
Adaptor Output: 12VDC, 3.3A

Antenna: Unique Antenna, NOT accessible by end user  
Max. Gain: 1dBi

RF Transmission Frequency: 2412-2462MHz

Description of the EUT: NIL

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenovo	T400	----



#### 4 Summary of Test Standards

<b>Test Standards</b>	
FCC Part 15 Subpart B 10-1-12 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart B - Unintentional Radiators
ICES-003 Issue 5	Information Technology Equipment (ITE) – Limits and methods of measurement



## 5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpart B 10-1-12 Edition, ICES-003 Issue 5				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
Conducted Emission AC Power Port 150kHz to 30MHz	8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spurious radiated emissions 30MHz to 18000MHz	11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## 6 General Remarks

### Remarks

This submittal(s) (test report) is intended for FCC Verification filing to comply with Section 15.107, 15.109 of the FCC Part 15, Subpart B Rules. The EUT is a MP7FSv1 Module, it will be installed in a Treadmill and can't be separated use as a personal computer or personal computer peripheral equipment, so FCC Certificate and DOC are not applicable, only the FCC Verification was applied.

Model 339917 is identical to model 339918 in original report 68.760.12.298.01 except model name, therefore no tests needed.

### SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed

- **Not** Performed

The Equipment Under Test

- **Fulfills** the general approval requirements.

- **Does not** fulfill the general approval requirements.

Sample Received Date: 14 April 2013

Testing Start Date: 16 April 2013

Testing End Date: 23 April 2013

- Jiangsu TÜV Product Service Ltd. – Shenzhen Branch -

<b>Prepared By</b>	<u>2013-05-02</u>	<u>Peter Kang</u>	
<b>EMC Project Engineer</b>	<b>Date</b>	<b>Name</b>	<b>Signature</b>

<b>Approved by</b>	<u>2013-05-02</u>	<u>Ken Li</u>	
<b>EMC Project Manager</b>	<b>Date</b>	<b>Name</b>	<b>Signature</b>

## 7 Technical Requirement

### 7.1 Conducted Emission

#### Test Method

- 1 The EUT was placed on a table, which is 0.8m above ground plane
- 2 The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).s
- 3 Maximum procedure was performed to ensure EUT compliance
- 4 A EMI test receiver is used to test the emissions from both sides of AC line

#### Limit

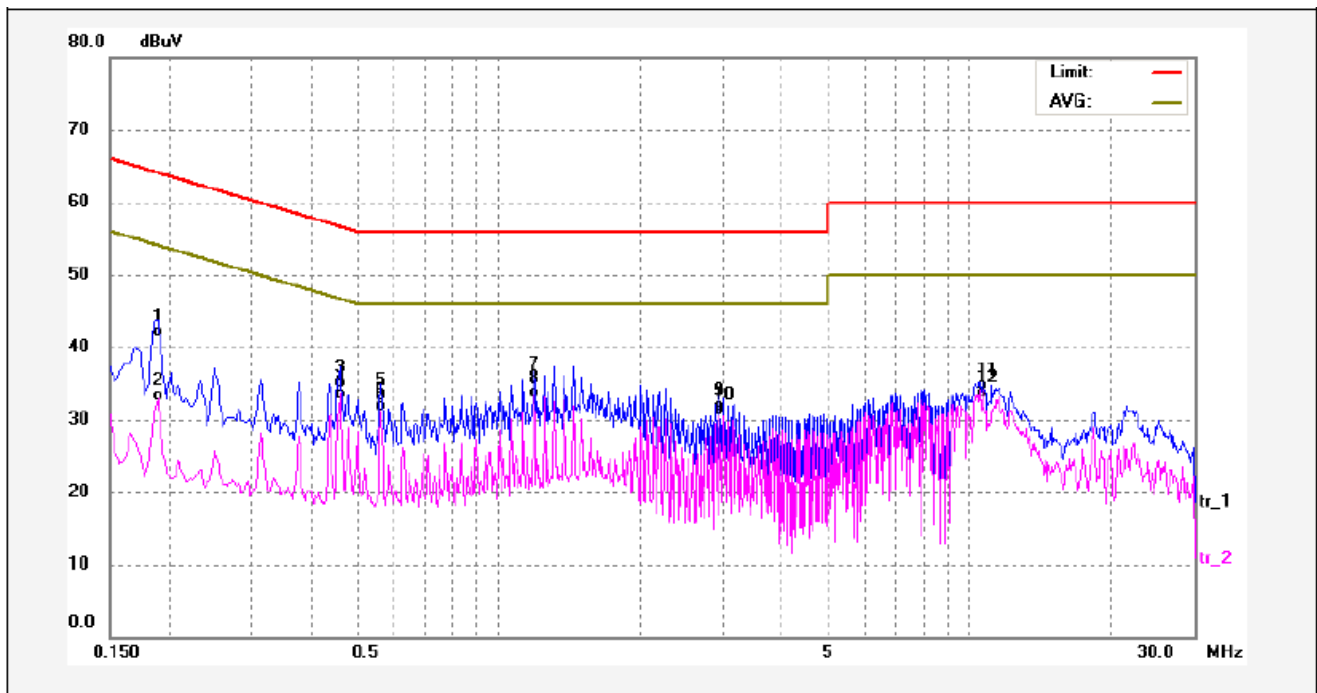
Frequency MHz	QP Limit dB $\mu$ V	AV Limit dB $\mu$ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

“\*”Decreasing linearly with logarithm of the frequency



## Conducted Emission

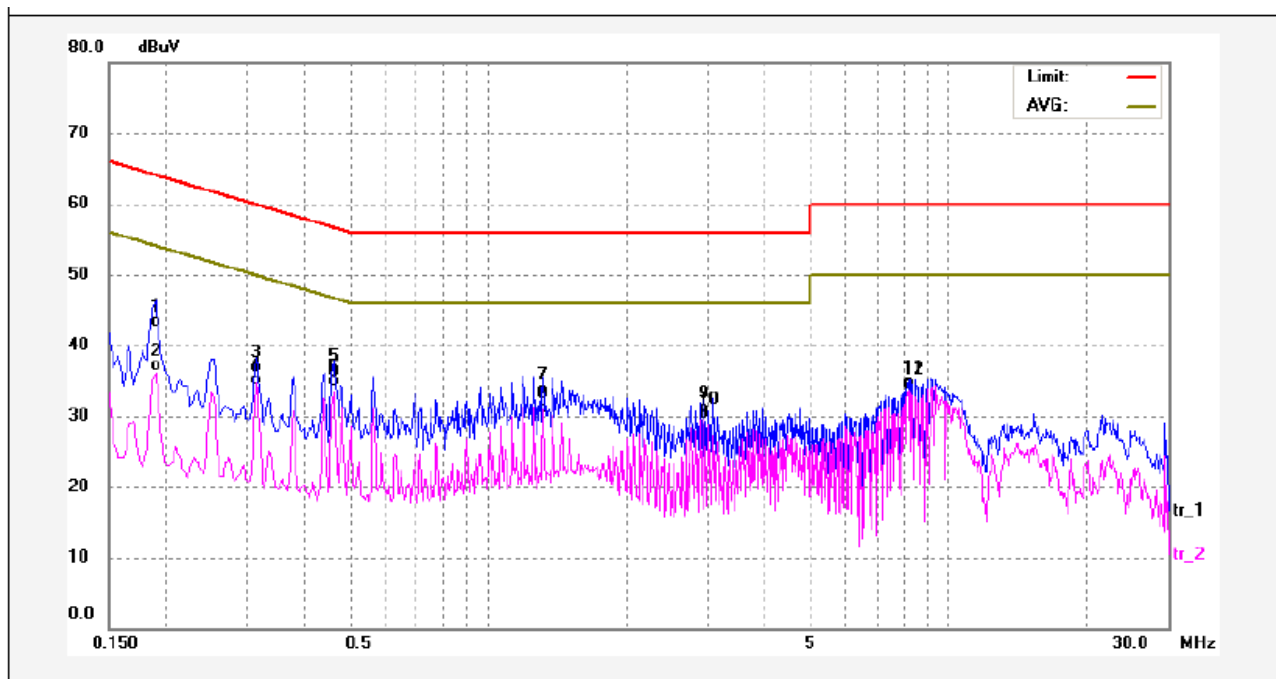
EUT: 341041  
 Op Cond: Read Memory and LAN communication  
 Test Spec: L  
 Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1900	31.17	10.22	41.39	64.03	-22.64	QP	
2	0.1900	22.20	10.22	32.42	54.03	-21.61	AVG	
3	0.4620	24.36	10.00	34.36	56.66	-22.30	QP	
4	0.4620	22.77	10.00	32.77	46.66	-13.89	AVG	
5	0.5660	22.48	10.00	32.48	56.00	-23.52	QP	
6	0.5660	21.04	10.00	31.04	46.00	-14.96	AVG	
7	1.1940	24.84	9.88	34.72	56.00	-21.28	QP	
8	1.1940	23.05	9.88	32.93	46.00	-13.07	AVG	
9	2.9539	21.34	9.80	31.14	56.00	-24.86	QP	
10	2.9539	20.71	9.80	30.51	46.00	-15.49	AVG	
11	10.6220	24.15	9.70	33.85	60.00	-26.15	QP	
12	10.6220	23.23	9.70	32.93	50.00	-17.07	AVG	

## Conducted Emission

EUT: 341041  
 Op Cond: Read Memory and LAN communication  
 Test Spec: N  
 Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1900	32.34	10.22	42.56	64.03	-21.47	QP	
2	0.1900	26.08	10.22	36.30	54.03	-17.73	AVG	
3	0.3140	26.03	10.09	36.12	59.86	-23.74	QP	
4	0.3140	24.24	10.09	34.33	49.86	-15.53	AVG	
5	0.4620	25.47	10.00	35.47	56.66	-21.19	QP	
6	0.4620	24.15	10.00	34.15	46.66	-12.51	AVG	
7	1.3180	23.03	9.87	32.90	56.00	-23.10	QP	
8	1.3180	20.53	9.87	30.40	46.00	-15.60	AVG	
9	2.9539	20.42	9.80	30.22	56.00	-25.78	QP	
10	2.9539	19.62	9.80	29.42	46.00	-16.58	AVG	
11	8.2940	24.30	9.70	34.00	60.00	-26.00	QP	
12	8.2940	23.93	9.70	33.63	50.00	-16.37	AVG	

## 7.2 Radiated emissions

### Test Method

- 1 The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2 The turntable shall be rotated for 360 degrees to determine the position of maximum emission level
- 3 EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4 Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5 Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

### Limit

#### FCC Part 15B

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

#### ICES-003 (Class B)

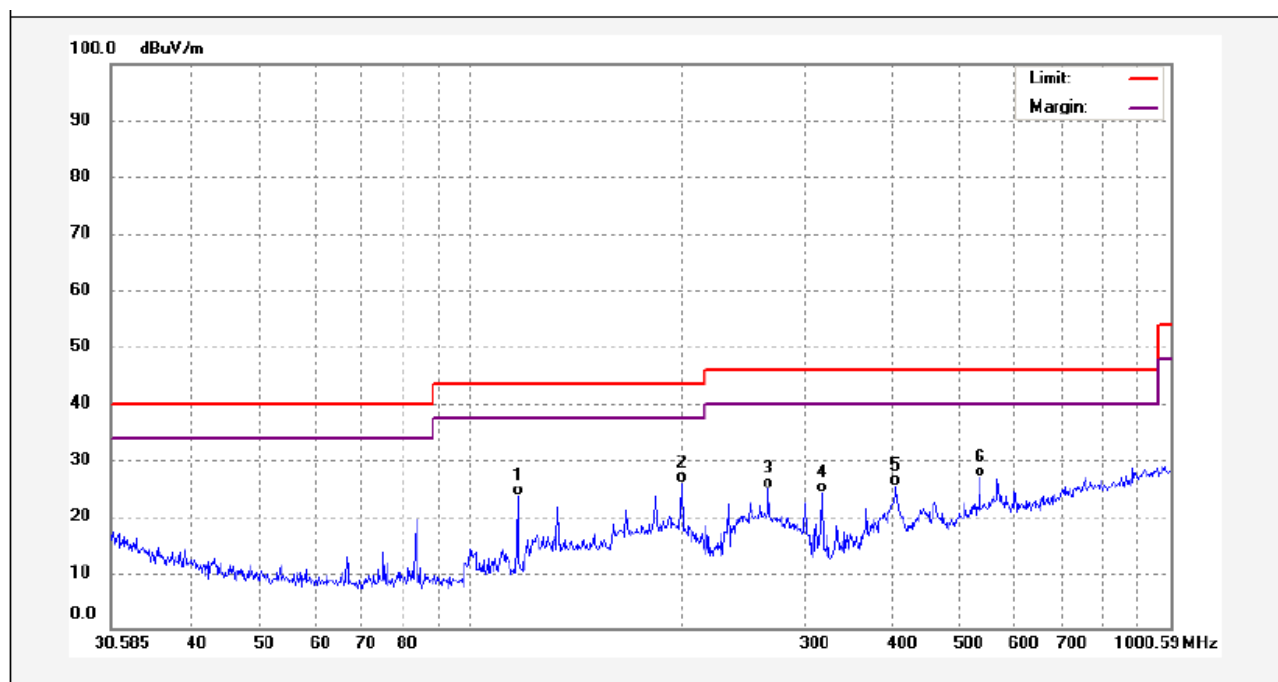
Frequency MHz	Field Strength dBµV/m	Detector
30-230	40	QP
230-1000	47	QP
1000-3000	50	AV
1000-3000	70	PK
3000-6000	54	AV
3000-6000	74	PK

Or

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

## Radiated Emission

EUT: 341041  
 Op Cond: Read Memory and LAN communication  
 Test Spec: Horizontal  
 Comment: 120V AC/60Hz

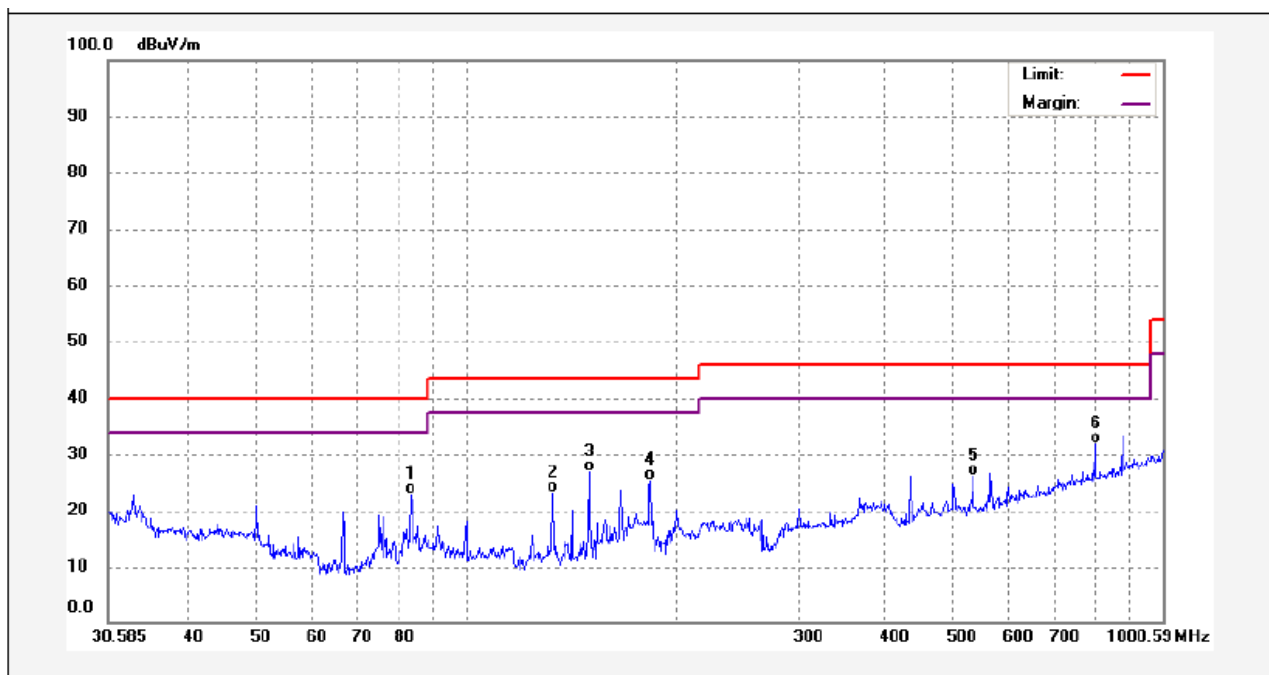


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	116.7271	46.68	-23.11	23.57	43.50	-19.93	QP	
2	200.4274	49.79	-23.80	25.99	43.50	-17.51	QP	
3	266.7878	45.73	-20.89	24.84	46.00	-21.16	QP	
4	317.6166	43.13	-19.09	24.04	46.00	-21.96	QP	
5	405.4481	41.93	-16.58	25.35	46.00	-20.65	QP	
6	534.0724	40.51	-13.55	26.96	46.00	-19.04	QP	

Remark: Factor = Antenna factor + cable loss – preamplifier gain

## Radiated Emission

EUT: 341041  
 Op Cond: Read Memory and LAN communication  
 Test Spec: Vertical  
 Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	83.2226	46.72	-23.86	22.86	40.00	-17.14	QP	
2	133.2699	45.16	-22.05	23.11	43.50	-20.39	QP	
3	150.0491	47.70	-20.73	26.97	43.50	-16.53	QP	
4	183.6912	48.11	-22.81	25.30	43.50	-18.20	QP	
5	534.0724	39.41	-13.37	26.04	46.00	-19.96	QP	
6	800.4061	39.10	-7.31	31.79	46.00	-14.21	QP	

Remark1: Factor = Antenna factor + cable loss – preamplifier gain

Remark2: There is no emission detected above 1GHz, so no data or plot listed.

## 8 Test Equipment List

TEST ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL.DUE.DAT E
CE	EMI Test Receiver	Rohde & Schwarz	ESCI	100947	Aug-2013
	Two-Line V-Network	Rohde & Schwarz	ENV216	100115	Aug-2013
	Absorbing Clamp	Rohde & Schwarz	MDS-21	100205	Aug-2013
RE	EMC Analyzer	Agilent	E7405A	MY45114943	Aug-2013
	Trilog Broadband Antenne 30-3000 MHz	SCHWARZBECK MESS-ELEKTROM	VULB9163	336	Aug-2013
	Broad-band Horn Antenna 1-18 GHz	SCHWARZBECK MESS-ELEKTROM	BBHA 9120 D	667	Aug-2013
	Broadband Preamplifier 0.5-18 GHz	SCHWARZBECK MESS-ELEKTROM	BBV 9718	9718-148	Aug-2013

## 9 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

### System Measurement Uncertainty

Items		Extended Uncertainty
RE	Field strength (dB $\mu$ V/m)	U=4.38dB (30MHz-25GHz)
CE	Disturbance Voltage (dB $\mu$ V)	U=3.60dB(150KHz-30MHz)