EMC TEST REPORT



Report No.: 17070315-FCC-E
Supersede Report No: N/A

Applicant	Advantech Co Ltd			
Product Name	Mobile Data Terminal			
Model No.	PWS-472			
Serial No.	MICA-052,	D300		
Test Standard	FCC Part 1	5 Subpart B Class B:2016, A	NSI C63.4: 2014	
Test Date	April 22 to I	April 22 to May 04, 2017		
Issue Date	May 05, 2017			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
mas He David Huang				
Evans H Test Engir		David Huang Checked By		

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
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Test Report	17070315-FCC-E
Page	2 of 37

Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



Test Report	17070315-FCC-E
Page	3 of 37

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Test Report	17070315-FCC-E
Page	4 of 37

CONTENTS

1.	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	5
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5.	TEST SUMMARY	8
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	10
6.1	AC POWER LINE CONDUCTED EMISSIONS	10
6.2	RADIATED EMISSIONS	16
INA	NEX A. TEST INSTRUMENT	21
INA	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	22
INA	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	33
INA	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	36
INA	NEX E. DECLARATION OF SIMILARITY	37



Test Report	17070315-FCC-E
Page	5 of 37

1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070315-FCC-E	NONE	Original	May 05, 2017

2. Customer information

Applicant Name	Advantech Co Ltd	
Applicant Add	No. 1, Alley 20, Lane 26, Rueiguang Road , Neihu District, Taipei , Taiwan	
Manufacturer	DOFUNTECH CO., LTD.	
Manufacturer Add	A401, No.189 Xinjunhuan Rd., Pujiang Town, Minhang District, Shanghai, China.	

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China	
	518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software of	Dedicted Fusionism Duraness To Observators 200	
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0	
Test Software of	E7 FM0(- 1 - 2014)	
Conducted Emission	EZ-EMC(ver.lcp-03A1)	



Test Report	17070315-FCC-E
Page	6 of 37

4. Equipment under Test (EUT) Information

Description of EUT: Mobile Data Terminal

Main Model: PWS-472

Serial Model: MICA-052, D300

BLE/Bluetooth(2.4G): 2.13dBi

Antenna Gain: WIFI(2.4G): 2.13dBi

WIFI(5150-5250MHz): 1.92dBi

Antenna Type: PIFA antenna

Adapter:

Model: JHD-AP013U-050200BB-A Input: AC100-240V~50/60Hz,0.35A

Output: DC 5.0V,2000mA

Input Power: Battery:

Model: LBP300A

Spec: 3.7V,3200mAh,11.84Wh Maximum chargeable voltage: 4.2V

Equipment Category: JBP

Bluetooth: GFSK, π /4DQPSK, 8DPSK

802.11b: DSSS

Type of Modulation: 802.11a/g/n20/n40: OFDM

BLE: GFSK

Bluetooth/BLE: 2402-2480 MHz

802.11b/g: 2412-2462 MHz (TX/RX)

RF Operating Frequency (ies): 802.11n20: 2412-2462MHz; (TX/RX)

802.11n40: 2422-2452 MHz (TX/RX); 802.11 a: 5150-5250 MHz; (TX/RX)

Bluetooth: 79CH

Number of Channels: WIFI:802.11b/g: 11CH

WIFI:802.11a: 24CH



Test Report	17070315-FCC-E
Page	7 of 37

WIFI :802.11n20: 11CH(2.4GHz); 24CH(5GHz) WIFI :802.11n40: 9CH(2.4GHz); 12CH(5GHz)

BLE: 40CH

Port: USB Port

Trade Name : ADVANTECH

FCC ID: M82-PWS472

Date EUT received: April 21, 2017

Test Date(s): April 22 to May 04, 2017



Test Report	17070315-FCC-E
Page	8 of 37

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result	
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance	
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance	



Test Report	17070315-FCC-E
Page	9 of 37

Measurement Uncertainty

Parameter	Uncertainty		
AC Power Line Conducted Emissions	±3.11dB		
(150kHz~30MHz)	10.1100		
Radiated Emission(30MHz~1GHz)	±5.12dB		
Radiated Emission(1GHz~6GHz)	±5.34dB		



Test Report	17070315-FCC-E
Page	10 of 37

6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	23 °C		
Relative Humidity	55%		
Atmospheric Pressure	1022mbar		
Test date :	April 22, 2017		
Tested By:	Evans He		

Requirement(s):

Spec	Item	Requirement App				
47CFR§15.	a)	For Low-power radio-freconnected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at the				
107		Frequency ranges	-	dBµV)		
		(MHz)	QP	Average		
		0.15 ~ 0.5	66 – 56	56 – 46		
		0.5 ~ 5	56	46		
	5 ~ 30 60 50					
Test Setup			social Ground Frence Plane	Test Receiver		
Procedure	 The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains. 					



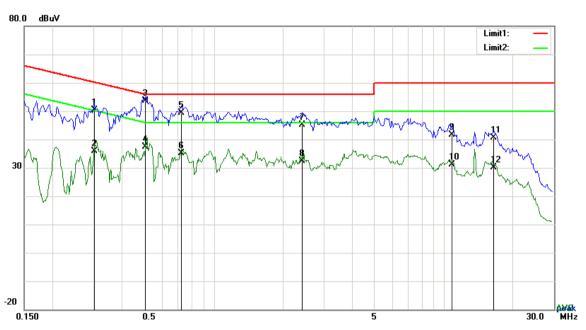
Test Report	17070315-FCC-E
Page	11 of 37

	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)
	over the required frequency range using an EMI test receiver.
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the
	selected frequencies and the necessary measurements made with a receiver bandwidth
	setting of 10 kHz.
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	Pass Fail

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



Test Report	17070315-FCC-E
Page	12 of 37



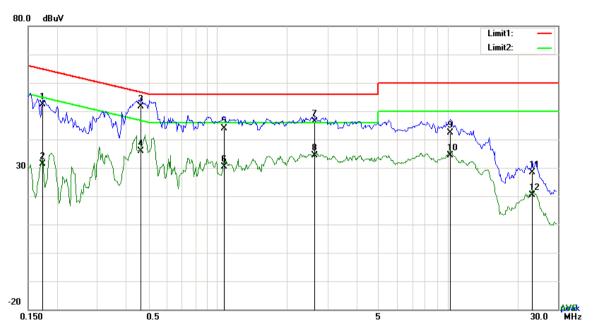
Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.3035	40.36	QP	10.03	50.39	60.15	-9.76
2	L1	0.3035	25.94	AVG	10.03	35.97	50.15	-14.18
3	L1	0.5049	43.59	QP	10.03	53.62	56.00	-2.38
4	L1	0.5049	27.30	AVG	10.03	37.33	46.00	-8.67
5	L1	0.7272	39.25	QP	10.03	49.28	56.00	-6.72
6	L1	0.7272	25.22	AVG	10.03	35.25	46.00	-10.75
7	L1	2.4120	35.07	QP	10.05	45.12	56.00	-10.88
8	L1	2.4120	22.26	AVG	10.05	32.31	46.00	-13.69
9	L1	10.8195	31.43	QP	10.16	41.59	60.00	-18.41
10	L1	10.8195	21.09	AVG	10.16	31.25	50.00	-18.75
11	L1	16.4589	30.34	QP	10.25	40.59	60.00	-19.41
12	L1	16.4589	19.77	AVG	10.25	30.02	50.00	-19.98



Test Report	17070315-FCC-E
Page	13 of 37



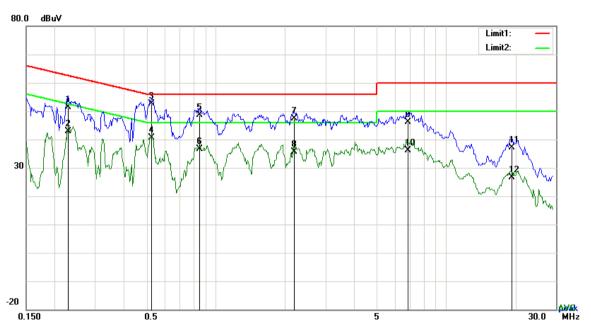
Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1734	42.32	QP	10.02	52.34	64.80	-12.46
2	N	0.1734	21.31	AVG	10.02	31.33	54.80	-23.47
3	N	0.4620	41.55	QP	10.02	51.57	56.66	-5.09
4	N	0.4620	25.74	AVG	10.02	35.76	46.66	-10.90
5	N	1.0665	33.85	QP	10.03	43.88	56.00	-12.12
6	N	1.0665	20.39	AVG	10.03	30.42	46.00	-15.58
7	N	2.6304	36.41	QP	10.05	46.46	56.00	-9.54
8	N	2.6304	24.35	AVG	10.05	34.40	46.00	-11.60
9	N	10.2111	32.36	QP	10.14	42.50	60.00	-17.50
10	N	10.2111	24.18	AVG	10.14	34.32	50.00	-15.68
11	N	23.1630	18.19	QP	10.31	28.50	60.00	-31.50
12	N	23.1630	10.19	AVG	10.31	20.50	50.00	-29.50



Test Report	17070315-FCC-E
Page	14 of 37



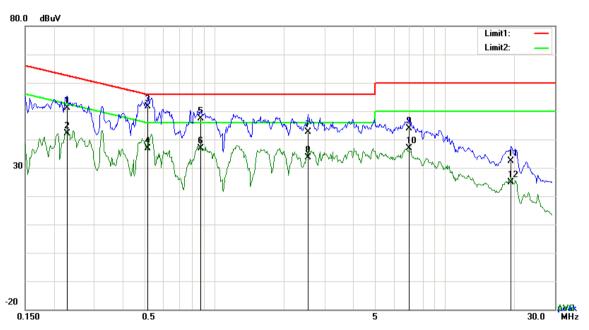
Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2280	41.47	QP	10.03	51.50	62.52	-11.02
2	L1	0.2280	32.81	AVG	10.03	42.84	52.52	-9.68
3	L1	0.5283	42.68	QP	10.03	52.71	56.00	-3.29
4	L1	0.5283	30.59	AVG	10.03	40.62	46.00	-5.38
5	L1	0.8520	38.48	QP	10.03	48.51	56.00	-7.49
6	L1	0.8520	26.64	AVG	10.03	36.67	46.00	-9.33
7	L1	2.2014	37.27	QP	10.05	47.32	56.00	-8.68
8	L1	2.2014	25.61	AVG	10.05	35.66	46.00	-10.34
9	L1	6.8259	36.14	QP	10.11	46.25	60.00	-13.75
10	L1	6.8259	26.10	AVG	10.11	36.21	50.00	-13.79
11	L1	19.3839	26.85	QP	10.29	37.14	60.00	-22.86
12	L1	19.3839	16.26	AVG	10.29	26.55	50.00	-23.45



Test Report	17070315-FCC-E
Page	15 of 37



Test Data

Phase Neutral Plot at 240Vac, 60Hz

	Thase Neather for at 240 vas, corre							
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.2280	41.04	QP	10.02	51.06	62.52	-11.46
2	N	0.2280	32.17	AVG	10.02	42.19	52.52	-10.33
3	N	0.5127	41.66	QP	10.02	51.68	56.00	-4.32
4	N	0.5127	26.91	AVG	10.02	36.93	46.00	-9.07
5	N	0.8676	37.38	QP	10.03	47.41	56.00	-8.59
6	Ν	0.8676	26.92	AVG	10.03	36.95	46.00	-9.05
7	Ν	2.5446	32.50	QP	10.05	42.55	56.00	-13.45
8	N	2.5446	23.51	AVG	10.05	33.56	46.00	-12.44
9	Ζ	6.9819	33.71	QP	10.10	43.81	60.00	-16.19
10	Ν	6.9819	26.87	AVG	10.10	36.97	50.00	-13.03
11	N	19.3956	22.17	QP	10.25	32.42	60.00	-27.58
12	N	19.3956	14.72	AVG	10.25	24.97	50.00	-25.03



Test Report	17070315-FCC-E
Page	16 of 37

6.2 Radiated Emissions

Temperature	25 °C
Relative Humidity	52%
Atmospheric Pressure	1028mbar
Test date :	March 28, 2017
Tested By:	Evans He

Requirement(s):

Spec	Item	Item Requirement Applicable				
47CFR§15.		Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spe the level of any unwanted emission; the fundamental emission. The tight edges	>			
109(d)	a)	Frequency range (MHz)	Field Strength (μV/m)	_		
		30 - 88	100			
		88 – 216	150			
		216 960	200			
		Above 960	500			
Test Setup	Ant. Tower Support Units Turn Table Ground Plane Test Receiver					
Procedure 1. The EUT was switched on and allowed to warm up to its normal operating of the test was carried out at the selected frequency points obtained from the characterization. Maximization of the emissions, was carried out by rotating changing the antenna polarization, and adjusting the antenna height in the manner: a. Vertical or horizontal polarization (whichever gave the higher emissions)				the EUT ating the EUT, the following		



Test Report	17070315-FCC-E
Page	17 of 37

		over a full rotation of the EUT) was chosen.
	b.	The EUT was then rotated to the direction that gave the maximum
		emission.
	C.	Finally, the antenna height was adjusted to the height that gave the maximum
		emission.
1	3. The re	esolution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	120 kł	Hz for Quasiy Peak detection at frequency below 1GHz.
	4. The res	solution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandw	vidth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.	
	The r	esolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	band	width with Peak detection for Average Measurement as below at frequency
	above	e 1GHz.
	■ 1 k	Hz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5. Steps	2 and 3 were repeated for the next frequency point, until all selected frequency
	points	were measured.
Remark		
Result	Pass	■ Fail
Test Data	Yes	□ _{N/A}
Test Plot	Yes (See belo	ow) $\square_{N/A}$



Test Report	17070315-FCC-E
Page	18 of 37

Below 1GHz



Test Data

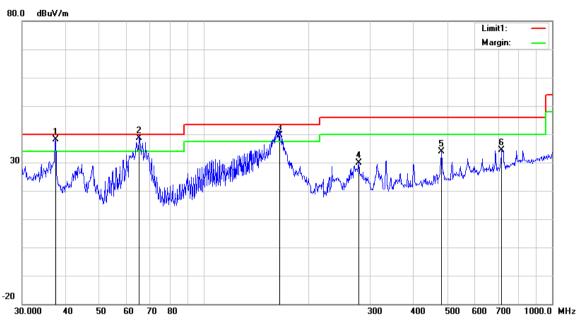
Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	I	37.4165	42.20	QP	15.79	22.26	0.77	36.50	40.00	-3.50	100	136
2	I	65.1145	52.35	QP	7.56	22.39	0.88	38.40	40.00	-1.60	100	93
3	П	164.9075	49.68	QP	12.21	22.27	1.38	41.00	43.50	-2.50	100	89
4	П	279.0436	44.22	peak	12.68	22.29	1.75	36.36	46.00	-9.64	100	254
5	Н	480.5276	38.04	peak	17.31	21.85	2.31	35.81	46.00	-10.19	200	181
6	Η	827.4934	32.98	peak	21.70	21.08	2.91	36.51	46.00	-9.49	100	219



Test Report	17070315-FCC-E
Page	19 of 37

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	>	37.4165	43.80	QP	15.79	22.26	0.77	38.10	40.00	-1.90	100	107
2	>	65.1145	52.65	QP	7.56	22.39	0.88	38.70	40.00	-1.30	100	85
3	V	164.9075	48.28	QP	12.21	22.27	1.38	39.60	43.50	-3.90	200	313
4	V	278.0669	37.68	peak	12.63	22.29	1.75	29.77	46.00	-16.23	100	107
5	٧	480.5276	36.11	peak	17.31	21.85	2.31	33.88	46.00	-12.12	100	239
6	V	716.6820	32.55	peak	20.40	21.32	2.65	34.28	46.00	-11.72	100	182



Test Report	17070315-FCC-E
Page	20 of 37

Above 1GHz

Frequency	Read_level	A	Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
1204.56	69.7	58	100	٧	50.01	-19.69	74	-23.99	PK
1761.31	73.39	196	100	٧	56.64	-16.75	74	-17.36	PK
2545.85	72.05	203	200	V	58.52	-13.53	74	-15.48	PK
1169.43	70.87	301	100	Н	50.99	-19.88	74	-23.01	PK
2701.57	71.48	114	100	Н	58.23	-13.25	74	-15.77	PK
1694.21	72.42	167	100	Н	55.16	-17.26	74	-18.84	PK

Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to 5*2480 MHz=12,400 MHz.

Note2: The frequency that above 3GHz is mainly from the environment noise.

Note3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.



Test Report	17070315-FCC-E
Page	21 of 37

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emis					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	<
Line Impedance Stabilization Network	LI-125A	191106	09/24/2016	09/23/2017	(
Line Impedance Stabilization Network	LI-125A	191107	09/24/2016	09/23/2017	<u><</u>
LISN	ISN T800	34373	09/24/2016	09/23/2017	~
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	~
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	(
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<u><</u>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	>
Double Ridge Horn Antenna	AH-118	71259	09/23/2016	09/22/2017	>



Test Report	17070315-FCC-E
Page	22 of 37

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Front View





Test Report	17070315-FCC-E
Page	23 of 37

EUT - Front View



EUT - Rear View



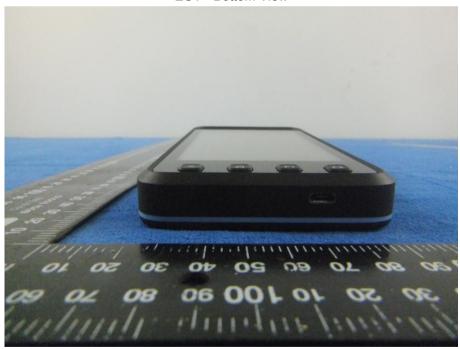


Test Report	17070315-FCC-E
Page	24 of 37

EUT - Top View



EUT - Bottom View





Test Report	17070315-FCC-E
Page	25 of 37

EUT - Left View



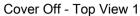
EUT - Right View





Test Report	17070315-FCC-E
Page	26 of 37

Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 2



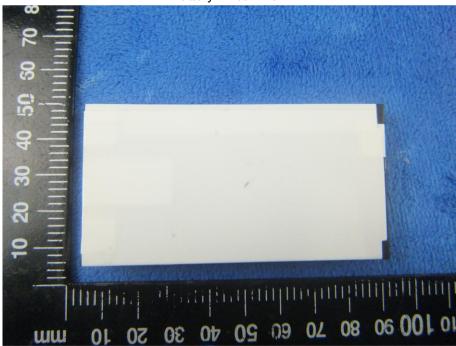


Test Report	17070315-FCC-E
Page	27 of 37

Battery - Front View



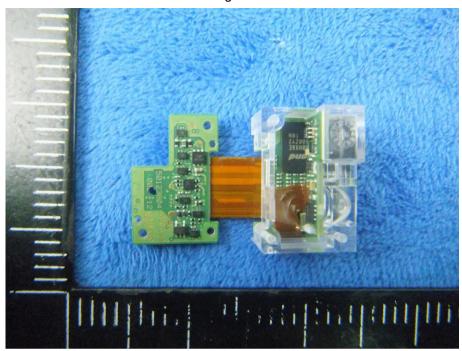
Battery - Rear View



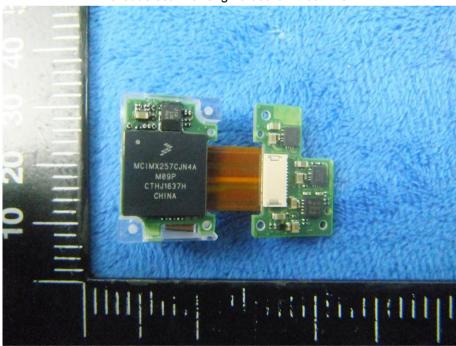


Test Report	17070315-FCC-E
Page	28 of 37

Barcode scanner engine board- Front View



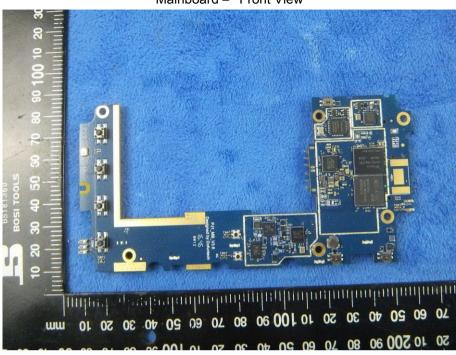
Barcode scanner engine board - Rear View



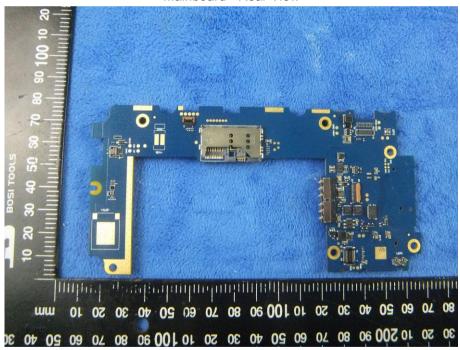


Test Report	17070315-FCC-E
Page	29 of 37

Mainboard - Front View



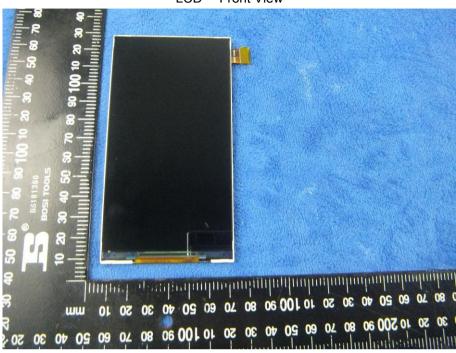
Mainboard - Rear View



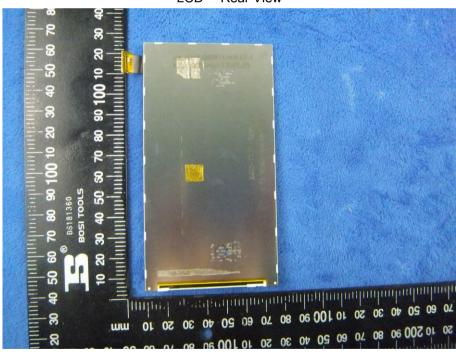


Test Report	17070315-FCC-E
Page	30 of 37

LCD - Front View



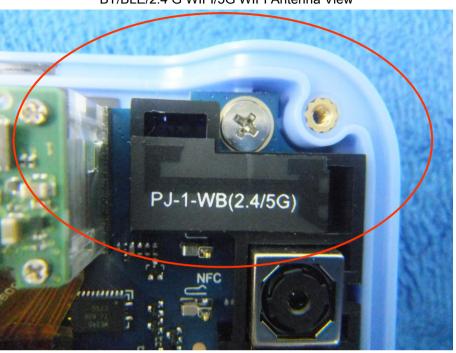
LCD - Rear View





Test Report	17070315-FCC-E
Page	31 of 37

BT/BLE/2.4 G WIFI/5G WIFI Antenna View



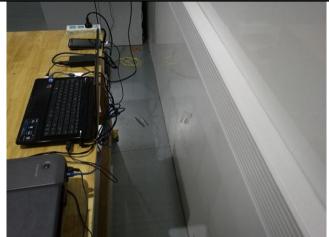


Test Report	17070315-FCC-E
Page	32 of 37

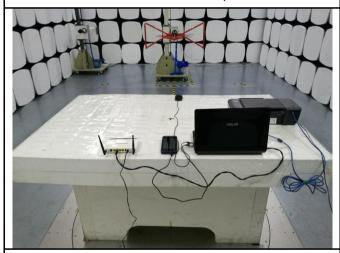
Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



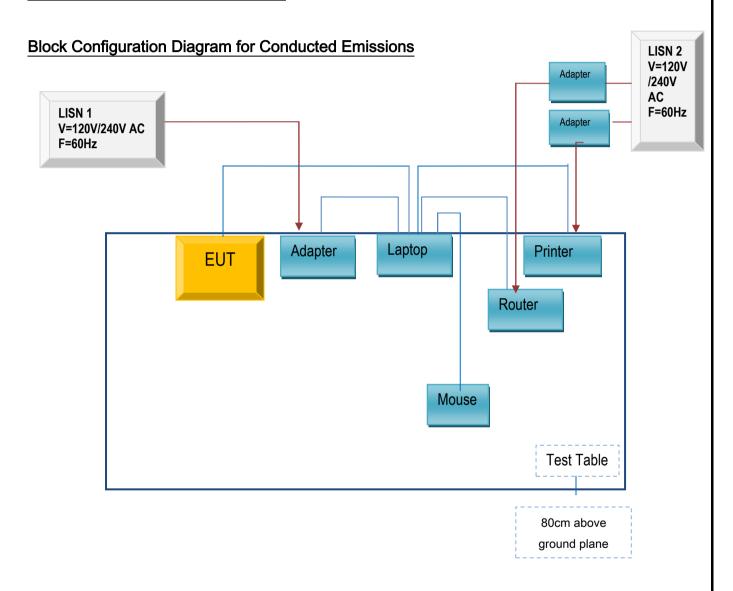
Radiated Emissions Test Setup Above 1GHz



Test Report	17070315-FCC-E
Page	33 of 37

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

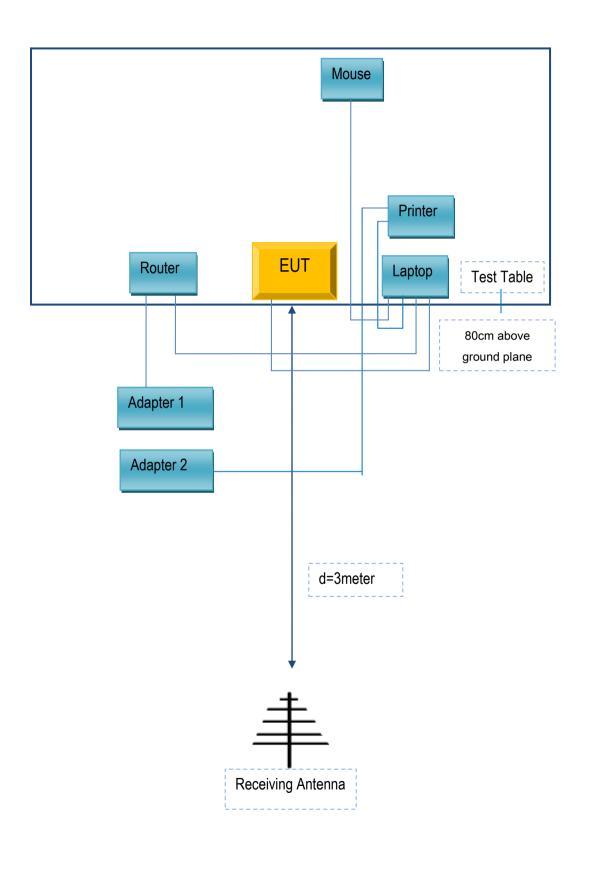
Annex C.ii. TEST SET UP BLOCK





Test Report	17070315-FCC-E
Page	34 of 37

Block Configuration Diagram for Radiated Emissions





Test Report	17070315-FCC-E
Page	35 of 37

Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	LR-1EHRX
GOLDWEB	Router	R102	1202032094
Lenovo	AC Adapter	42T4416	21D9JU
HP	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	JX120051274
USB Cable	Un-shielding	No	2m	CBA3000AH0C1
RJ45 Cable	Un-shielding	No	2m	KX156327541
Router Power cable	Un-shielding	No	2m	13274630Z
Printer Power cable	Un-shielding	No	2m	127581031
Power Cable	Un-shielding	No	0.8m	GT211032



Test Report	17070315-FCC-E
Page	36 of 37

Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment



Test Report	17070315-FCC-E
Page	37 of 37

Annex E. DECLARATION OF SIMILARITY

Advantech Co Ltd

To: SIEMIC ,775 Montague Expressway, Milpitas, CA 95035, USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list (3) model numbers on the FCC certificates and reports, as following:

Model No.: PWS-472, MICA-052, D300

We declare that, all the model PCB, Antenna and Appearance shape, accessories are the same.

The difference of these is listed as below:

Main Model No	Serial Model No	Difference
PWS-472	MICA-052,D300	Different name and color

Thank you!

Signature:

Printed name/title: Lily Huang

Tel: 886-2-2218-4567-7293 Fax: 886-2-2794-7305

Address: No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei, Taiwan 114