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# FCC COMPLIANCE REPORT

Test report No

: EMC-2015/E035

**Type of Equipment** 

: Slate

**Model Name** 

: Slate6

**Applicant** 

: Cuattro, LLC

3760, Rockymoutain Drv., Loveland, Co. USA,

80538

Manufacturer

: ISOL

402, Star Tower, 37, 62, Sagimakgol-ro, Jungwongu, Seongnam-si, Gyeonggi-do, Republic of Korea

Test standards

: FCC part 15 subpart B, Class B

FCC ID

: 2AFCFSLATE6

**Test Procedure and Items** 

- AC Power Line Conducted Emissions Measurement: ANSI C63.4-2009

- Radiated Emissions Measurement : ANSI C63.4-2009

**Testing Laboratory** 

: EMC Compliance Ltd.

Test result

: Complied

The above equipment was tested by EMC compliance Testing Laboratory for compliance with the requirements of FCC Rules and Regulations. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.

Date of receipt: 2015. 06. 12

Date of testing: 2015. 06. 21 ~ 06. 25

Issued date: 2015. 07. 10

Tested by:

MOON, HO-JIN

oproved by:

BAEK, JEONG-SOO

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# 1. Applicant information

**Applicant:** Cuattro, LLC

Address: 3760, Rockymoutain Drv., Loveland, Co. USA, 80538

E-mail: jkim@cuattro.com
Contact name: Kim Jong Cheol

**Manufacturer:** ISOL

Address: 402, Star Tower, 37, 62, Sagimakgol-ro, Jungwon-gu,

Seongnam-si, Gyeonggi-do, Republic of Korea

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## 2. Laboratory information

### **Address**

#### EMC compliance Ltd.

65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-390, Korea

Telephone Number: 82 70 5008 1021 Facsimile Number: 82 505 299 8311

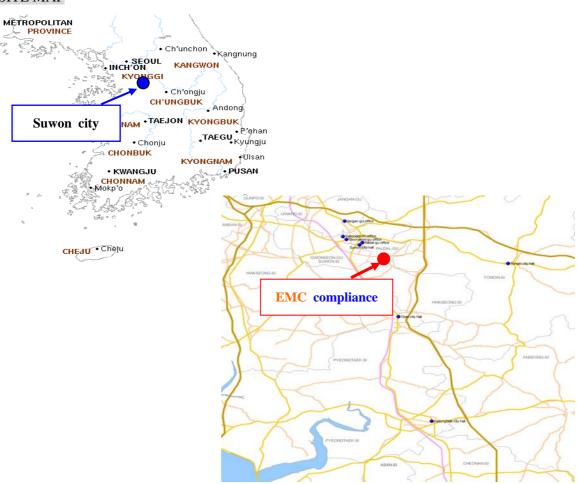
FCC Site Designation No: KR0040, FCC Site Registration No: 687132

VCCI Registration No.: R-3327, G-198, C-3706, T-1849

Industry Canada Registration No.: 8035A

KOLAS NO.: 231

#### SITE MAP





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# 3. Test system configuration

## 3.1 Operation environment

		Temperature	Humidity	Pressure
Chamber(10 m)	:	20.7 ~ 25.1 °C	49.2 ~ 50.8 % R.H.	-
Shielded room(CE)	:	25.1 °C	50.5 % R.H.	-

#### Test site

These testing items were performed following locations;

Test item	Test site	
Conducted Emission	Shielded Room	
Radiated Emission	10 m, 3 m Chamber	



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### 3.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC.

The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability. Based on CISPR 16-4-2, the measurement uncertainty level with a 95 % confidence level was applied.

Conducted emission measurement (C.L: Approx 95 %, $k = 2$ )			
Chialded Dague (CE#1)	9 kHz ~ 150 kHz: ± 3.75 dB		
Shielded Room (CE#1)	150 kHz ~ 30 MHz: ± 3.36 dB		
Shielded Deem (CE#2)	9 kHz ~ 150 kHz: ± 3.79	9 dB	
Shielded Room (CE#2)	150 kHz ~ 30 MHz: ± 3.4	<b>42</b> dB	
Radiated Emission measu	rement (C.L: Approx 95	%, k = 2)	
	20 MHz 200 MHz	3 m: + 5.20 dB, - 5.31 dB	
	30 MHz ~ 300 MHz	10 m: + 5.19 dB, - 5.30 dB	
10 m Chambar (4E)	300 MHz ~ 1000 MHz	3 m: + 6.56 dB, - 6.65 dB	
10 m Chamber (4F)		10 m: + 6.45 dB, - 6.64 dB	
	1 GHz ~ 6 GHz	3 m: + 6.70 dB, - 6.81 dB	
	6 GHz ~ 18 GHz	3 m: + 6.95 dB, - 7.12 dB	
	30 MHz ~ 300 MHz	3 m: + 5.21 dB, - 5.32 dB	
		10 m: + 5.20 dB, - 5.31 dB	
10 m Chambar (2E)	300 MHz ~ 1000 MHz	3 m: + 5.82 dB, - 5.91 dB	
10 m Chamber (2F)		10 m: + 5.69 dB, - 5.91 dB	
	1 GHz ~ 6 GHz 3 m: + 6.28 dB, - 6.30 dB		
	6 GHz ~ 18 GHz	3 m: + 6.72 dB, - 6.90 dB	

## 3.3 Measurement Program

These test items were performed by software programs;

Test item	Measurement Program	
Conducted Emission	EP5CE_V 5.4.0(TOYO)	
Radiated Emission	EP5RE_V 4.6.0(TOYO)	



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# 4. Description of E.U.T.

## 4.1 General information

Item	Spec.	Remarks
Dimension(wXdXh)	280mm x 42mm x 510mm	11"x 1.7" x 20"
Weight	3.15kg	6.95lb
Tablet	Sharp RW-16G1	15.6", i5,GPU 3200x1800(IGZO),4G,128GSSD , 44Wh(4400mAh,11V)
OS	Windows 8.1 64Bit	
User External USB	1 Port	
Internal USB	3Port (USB3.0 #3-1,#3-2,#3-3),	
Case	ABS plastic	Rubber Bumper Combine
Quick Stand	Portrait and Landscape Mode	
Wall Mount	Vesa Bracket Compatible	
Generator Interface	AED(Auto Exposure Detection) only	



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## 4.2 Product description

Type of product	Slate
Model name (Basic)	Slate6
Model name (Variant)	-
Difference	-
Trade name	-
Serial no	-
Testing voltage	* 120 V, 60 Hz
resting voltage	* DC 3.8 V (Built in Battery)
	* AC/DC Adaptor (ADP-65JH AB) Input: AC 100 ~ 240 V, 50/60 Hz, 1.5 A
Input/Output range	Output: DC 19 V, 3.42 A
	* DC 3.8 V
Internal clock frequency	600 Mz
Note	* AC/DC adaptor was provided by the manufacturer.

# 4.3 Auxiliary equipments

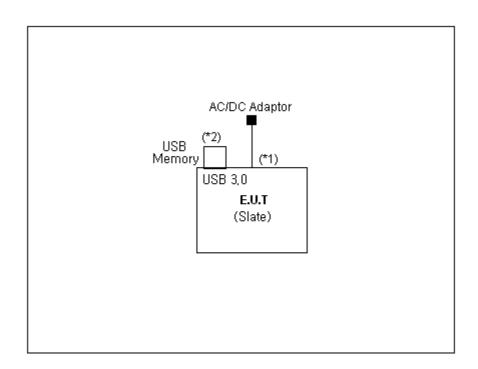
Туре	Model / Part #	Serial number	Manufacturer
USB Memory	-	-	-



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# 4.4 Test configuration

## \* Charging Mode

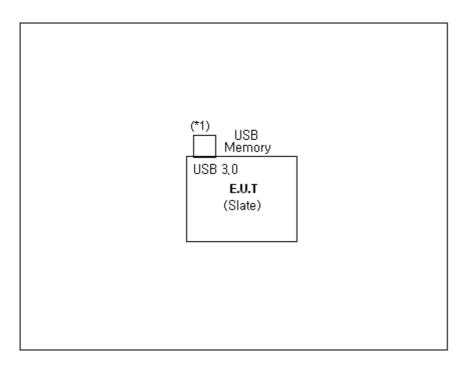


Note	Sta	Start End		Cable		
*	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	EUT	Power	AC/DC Adaptor	Power	2.0	Non-Shield
2	(Slate)	USB 3.0	USB Memory	USB 3.0	Direct	-



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#### \* Alone Mode



Note	Sta	Start End		(	Cable	
*	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	EUT (Slate)	USB 3.0	USB Memory	USB 3.0	Direct	-

# 4.5 Operating conditions

The EUT was configured as normal intended use.

Test mode	Normal operating	
	Charging Test.	
Charging Mode	H Pattern Scrolling Test.	
	Read/Write Test. (Using EMI Tool Program)	
Alone Mode	H Pattern Scrolling Test.	
Aione Wode	Read/Write Test. (Using EMI Tool Program)	



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# 5. Summary of test results

#### In the above configuration tested, The EUT complied with the requirement of the specification

## 5.1 Summary of EMI emission test results

FCC Part 15 Subpart B (Class B) ANSI C63.4 – 2009

Applied	Test items	Test method	Result
	Conducted Emission	ANSI C63.4 – 2009	Pass
	Radiated Emission	ANSI C63.4 – 2009	Pass



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# 6. Test results

#### 6.1 Conducted Emission

Test specification	FCC Part 15, Section 15.107(a), Class B						
Testing voltage	120 V, 60 Hz						
Test facility	Shielded room (CE#2)						
Date	2015. 06. 21						
Temperature(°C)	25.1 °C	25.1 °C Humidity (% R.H.) 50.5 % R.H.					
Remarks	Pass						

#### 6.1.1 Limits of conducted emission measurement

Frequency	Class A	(dB(μV))	Class B ( $dB(\mu V)$ )		
[MHz]	Quasi-peak	Average	Quasi-peak	Average	
0.15 ~ 0.5	79	66	66 ~ 56 *	56 ~ 46*	
0.5 ~ 5	73	60	56	46	
5 ~ 30	73	60	60	50	

<sup>\*</sup>The limit decreases linearly with the logarithm of frequency.



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#### 6.1.2 Measurement procedure

The measurements were performed in a shielded room. EUT was setup as shown in photograph and placed on a non-metallic table height of  $0.8\,$  m  $\,$  above the reference ground plane. The rear of table was located  $0.4\,$  m  $\,$  to the vertical conducted plane. EUT was power through the LISN, which was bonded to the ground plane. The LISN power was filtered. Each EUT power lead, except ground (safety) lead was individually connected through a LISN to input power source. EUT signal cables that hung closer than  $0.4\,$  m  $\,$  to the Horizontal metal ground  $0.3\,$  m  $\,$   $\,$   $0.4\,$  m  $\,$  long. The power cord was bundles in the center. All peripheral equipment was powered from a sub LISN. The LISN and ISN were positioned  $0.8\,$  m  $\,$  from the EUT. Peak and Average detection were used in preliminary testing and Quasi-peak and Average detections were used at final measurement. Both lines of power cord, hot and neutral, were measured.

### 6.1.3 Used equipments

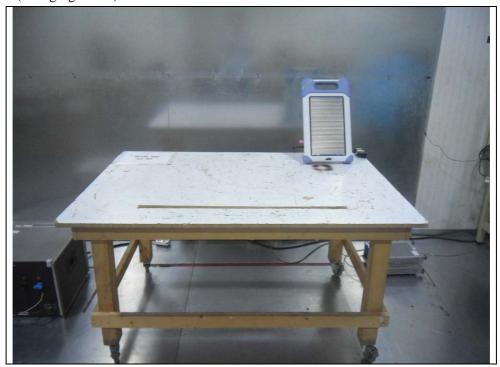
Equipment	Model	Serial No.	Makers	Next Cal. Date	Used
Test Receiver	ESCI	101408	R&S	2016.03.02	
Test Receiver	ESCI	100001	R&S	2015.07.14	
Test Receiver	ESCI	100710	R&S	2015.10.13	$\boxtimes$
TWO-LINE V-NETWORK	ENV216	101352	R&S	2015.10.13	
TWO-LINE V-NETWORK	NNLK8121	8121-472	SCHWARZBECK	2016.06.16	

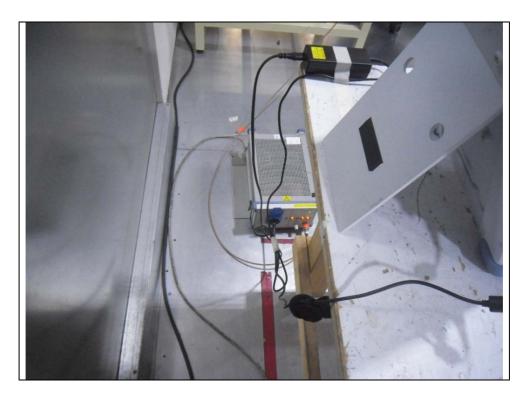


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### 6.1.4 Photographs of test setup

\* AC main (Charging Mode)



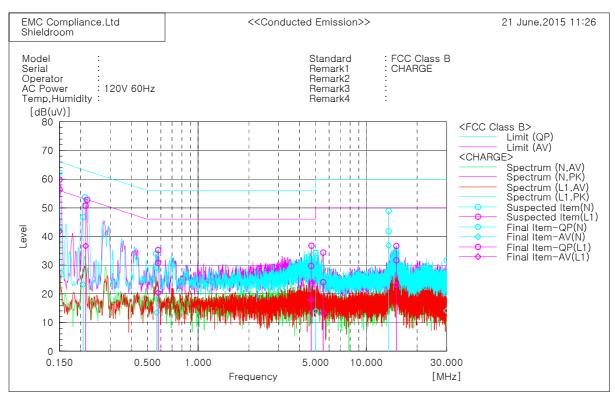




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#### 6.1.5 Conducted emission measurement result

#### \* AC main (Slate6)\_Charging Mode



F	ina	l Res	t Lua

	N Phase									
No.	Frequency	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin
	Fam. 1	QP	CAV	F 10.1	QP	CAV	QP	AV	QP.	ÇAV
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]
I	0.15009	50.3	32.8	9.5	59.8	42.3	66.0	56.0	6.2	13.7
2	0.20754 0.56503	37.2 19.7	13.7	9.5	46.7	23.2 13.5	63.3	53.3 46.0	16.6	30.1 32.5
3 4	4.99445	16.5	4.0 4.5	9.5 9.5	29.2 26.0	14.0	56.0 56.0	46.0 46.0	26.8 30.0	32.0
5	13.56036	32.0	27.0	9.8	41.8	36.8	60.0	50.0	18.2	13.2
6	29.98608	10.3	4.3	9.9	20.2	14.2	60.0	50.0	39.8	35.8
O	20.00000	10.0	1.0	0.0	20.2	1112	00.0	00.0	00.0	00.0
	L1 Phase	_								
No.	Frequency	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin
		neaumy	neaumy	0.1	HESUIT	nesuri	LIIIII	LIIIII	waryiii	war giii
		QP	CAV		QP	CAV	QP	AV	QĒ	CAV
	[MHz]	QP [dB(uV)]	CAV [dB(uV)]	[dB]	QP [dB(uV)]	CAV [dB(uV)]	QP [dB(uV)]	AV [dB(uV)]	QP [dB]	CAV [dB]
1	[MHz] 0.15008	QP [dB(uV)] 50.3	CAV [dB(uV)] 32.3	[dB] 9.5	QP [dB(uV)] 59.8	CAV [dB(uV)] 41.8	QP [dB(uV)] 66.0	AV [dB(uV)] 56.0	QP [dB] 6.2	CAV [dB] 14.2
1 2	[MHz] 0.15008 0.2144	QP [dB(uV)] 50.3 41.2	CAV [dB(uV)] 32.3 27.2	[dB] 9.5 9.5	QP [dB(uV)] 59.8 50.7	CAV [dB(uV)] 41.8 36.7	QP [dB(uV)] 66.0 63.0	AV [dB(uV)] 56.0 53.0	QP [dB] 6.2 12.3	CAV [dB] 14.2 16.3
3	[MHz] 0.15008 0.2144 0.57908	QP [dB(uV)] 50.3 41.2 21.2	CAV [dB(uV)] 32.3 27.2 10.9	[dB] 9.5 9.5 9.5	QP [dB(uV)] 59.8 50.7 30.7	CAV [dB(uV)] 41.8 36.7 20.4	QP [dB(uV)] 66.0 63.0 56.0	AV [dB(uV)] 56.0 53.0 46.0	QP [dB] 6.2 12.3 25.3	CAV [dB] 14.2 16.3 25.6
3 4	[MHz] 0.15008 0.2144 0.57908 4.70714	QP [dB(uV)] 50.3 41.2 21.2 20.2	CAV [dB(uV)] 32.3 27.2 10.9 8.5	[dB] 9.5 9.5 9.5 9.5	QP [dB(uV)] 59.8 50.7 30.7 29.7	CAV [dB(uV)] 41.8 36.7 20.4 18.0	QP [dB(uV)] 66.0 63.0 56.0 56.0	AV [dB(uV)] 56.0 53.0 46.0 46.0	QP [dB] 6.2 12.3 25.3 26.3	CAV [dB] 14.2 16.3 25.6 28.0
3	[MHz] 0.15008 0.2144 0.57908	QP [dB(uV)] 50.3 41.2 21.2	CAV [dB(uV)] 32.3 27.2 10.9	[dB] 9.5 9.5 9.5	QP [dB(uV)] 59.8 50.7 30.7	CAV [dB(uV)] 41.8 36.7 20.4	QP [dB(uV)] 66.0 63.0 56.0	AV [dB(uV)] 56.0 53.0 46.0	QP [dB] 6.2 12.3 25.3	CAV [dB] 14.2 16.3 25.6



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#### 6.2 Radiated Emission

Test specification	FCC Part 15, Section 15.109(g), Class B						
Testing voltage	120 V, 60 Hz / DC 3.8 V	120 V, 60 Hz / DC 3.8 V					
Test facility	10 m Chamber (4F), 3 m	10 m Chamber (4F), 3 m Chamber (3F)					
Test distance	3 m						
Date	2015. 06. 22 ~ 06. 25						
Temperature (°C)	20.7 ~ 25.1 °C	20.7 ~ 25.1 °C Humidity (% R.H.) 49.2 ~ 50.8 % R.H.					
Remarks	Pass						

#### 6.2.1 Limits of radiated emission measurement

Frequency [Mb]	Class A (dB(μV/m)) @ 10 m	Class B (dB(μV/m)) @ 3 m
30-88	39	40
88-216	43.5	43.5
216-960	46.4	46
Above 960	49.5	54

<sup>\*</sup> Note- Alternative standard: CISPR, Pub. 22 \*

#### 6.2.2 Measurement procedure

The test was done at a 10 m chamber with a quasi-peak detector. EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane. Cables were folded back and forth forming a bundle 0.3 m to 0.4 m long and were hanged at a 0.4 m height to the ground plane. Cables connected to EUT were fixed to cause maximum emission. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.



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#### 6.2.3 Used equipments

#### \* 30 Mbz ~ 1 GHz

Equipment	Model no.	Serial no.	Makers	Next Cal. Date	Used
Test Receiver	ESR	101078 R&S		2016.02.16	$\boxtimes$
Bi-Log Antenna	VULB 9163	552	SCHWARZBECK	2016.07.10	$\boxtimes$
Amplifier	310N	186280	SONOMA INSTRUMENT	2016.03.02	$\boxtimes$
Coaxial Fixed Atte nuator	8491A	MY52460424	AGILENT	2015.07.23	$\boxtimes$
Antenna Mast	AM4.0	079/3440509	MATURO	1	$\boxtimes$
Turn Table	CO2000-SOFT	-	MATURO	ı	$\boxtimes$

#### \* 1 GHz ~ 6 GHz

Equipment	Model no.	Serial no.	Makers	Next Cal. Date	Used
Test Receiver	ESR	101078	R&S	2016.02.16	$\boxtimes$
Bi-Log Antenna	VULB 9163	552	SCHWARZBECK	2016.07.10	$\boxtimes$
Amplifier			SONOMA INSTRUMENT	2016.03.02	
Coaxial Fixed Attenuator	8491A	MY52460424	AGILENT	2015.07.23	$\boxtimes$
Antenna Mast	AM4.0	079/3440509	MATURO	-	$\boxtimes$
Turn Table	CO2000-SOFT	-	MATURO	-	$\boxtimes$
Preamplifier	8449B	3008A01802	AGILENT	2015.08.05	
Horn ANT	3115	00086706	ETS	2015.09.01	$\boxtimes$

#### 6.2.4 Sample calculation

The field strength is calculated adding the antenna Factor, cable loss and, Antenna pad adding, subtracting the amplifier gain from the measured reading.

The sample calculation is as follow:

Result = M.R + C.F(A.F + C.L + 3) dB Att - A.G)

M.R = Meter Reading

C.F = Correction Factor

A.F = Antenna Factor

C.L = Cable Loss

A.G= Amplifier Gain

3 dB Att = 3 dB Attenuator

If M.R is 30 dB, A.F 12 dB, C.L 5 dB, 3 dB, A.G 35 dB

The result is 30 + 12 + 5 + 3 - 35 = 15 dB( $\mu$ V/m)



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### 6.2.5 Photographs of test setup

\* 30 MHz ~ 1 GHz (Charging Mode)



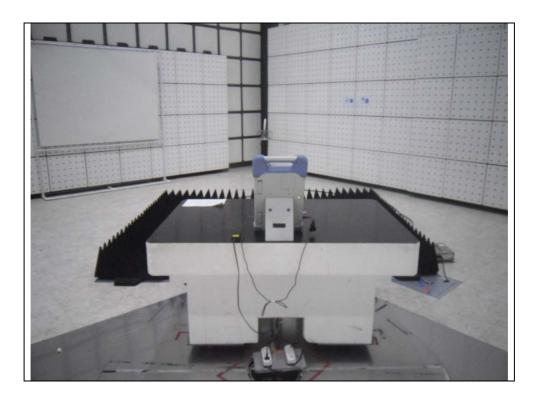




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\* 1 GHz ~ 6 GHz (Charging Mode)







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\* 30 Mb ~ 1 GHz (Alone Mode)

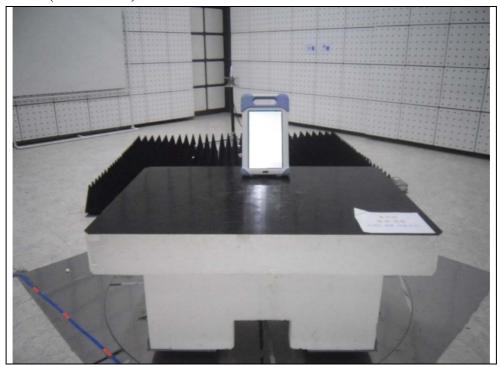






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### \* 1 GHz ~ 6 GHz (Alone Mode)





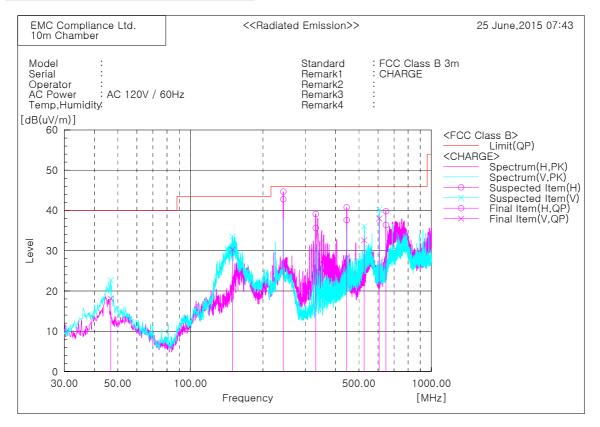


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#### 6.2.6 Radiated emission measurement result

#### \* Graph and Data

#### \* 30 Mb ~ 1 Gb (Slate6)\_Charging Mode



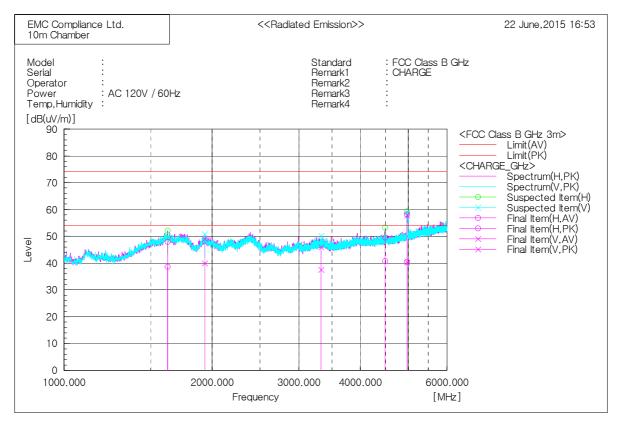
Fi	inal	Resul	t

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]
1	46.733	V	31.3	-13.2	18.1	40.0	21.9	100.0	252.1
2	149.553	V	48.5	-18.2	30.3	43.5	13.2	100.0	158.3
3	242.915	Н	56.4	-13.6	42.8	46.0	3.2	99.8	183.5
4	331.428	Н	46.9	-11.2	35.7	46.0	10.3	99.8	200.6
5	445.403	Н	45.7	-8.1	37.6	46.0	8.4	99.8	166.5
6	526.519	V	39.2	-6.6	32.6	46.0	13.4	100.0	39.0
7	607.393	V	43.0	-5.0	38.0	46.0	8.0	100.0	97.1
8	648.011	Н	41.1	-4.7	36.4	46.0	9.6	99.8	318.8



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#### \* 1 GHz ~ 6 GHz (Slate6)\_Charging Mode

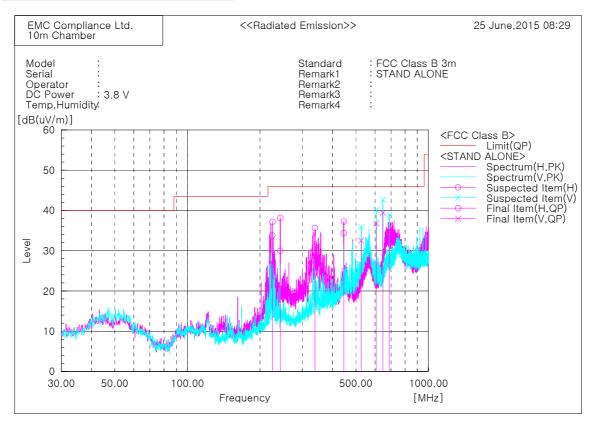


Fina	ıl Result												
No.	Frequency	(P)	Reading AV	Reading PK	c.f	Result AV	Result PK	Limit AV	Limit PK	Margin AV	Margin PK	Height	Angle
	[MHz]		[dB(uV)]	[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[dB]	[cm]	[deg]
1	1623.750	Н	40.0	49.3	-1.4	38.6	47.9	54.0	74.0	15.4	26.1	100.0	262.3
2	1931.250	٧	37.8	46.9	2.2	40.0	49.1	54.0	74.0	14.0	24.9	100.0	28.8
3	3326.875	٧	32.1	40.5	5.5	37.6	46.0	54.0	74.0	16.4	28.0	100.0	220.4
4	4492.500	Н	30.7	39.6	10.0	40.7	49.6	54.0	74.0	13.3	24.4	100.0	328.7
5	4977.500	Н	28.5	46.1	12.0	40.5	58.1	54.0	74.0	13.5	15.9	100.0	196.0
6	4978 750	V	28 2	45.8	12 1	40.3	57 9	54 0	74 N	13.7	16 1	100 0	230.9



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#### \* 30 Mbz ~ 1 GHz (Slate6)\_Alone Mode



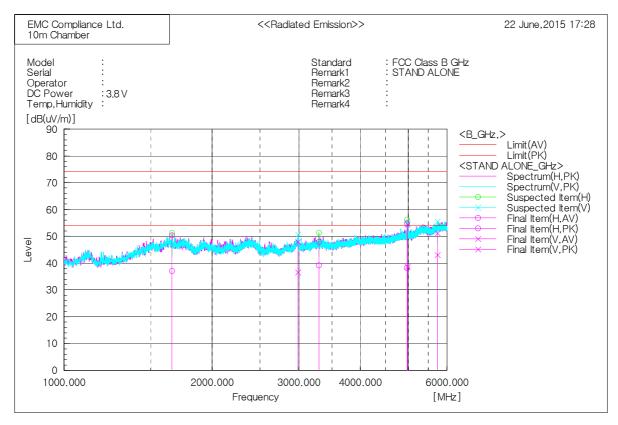
Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]
1	225.334	Н	47.9	-14.1	33.8	46.0	12.2	100.1	11.5
2	242.915	Н	43.6	-13.6	30.0	46.0	16.0	100.1	193.8
3	338.581	Н	42.0	-11.0	31.0	46.0	15.0	100.1	336.7
4	445.524	Н	42.5	-8.1	34.4	46.0	11.6	100.1	202.0
5	526.519	V	39.1	-6.6	32.5	46.0	13.5	99.9	65.1
6	607.393	V	41.8	-5.0	36.8	46.0	9.2	99.9	105.9
7	647.526	V	44.2	-4.7	39.5	46.0	6.5	99.9	105.9
8	688.388	V	39.4	-4.3	35.1	46.0	10.9	99.9	105.9



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#### \* 1 GHz ~ 6 GHz (Slate6)\_Alone Mode



Fina	Final Result												
No.	Frequency	(P)	Reading AV	Reading PK	c.f	Result AV	Result PK	Limit AV	Limit PK	Margin AV	Margin PK	Height	Angle
	[MHz]		[dB(uV)]	[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[dB]	[cm]	[deg]
1	1656.875	Н	37.9	51.3	-0.9	37.0	50.4	54.0	74.0	17.0	23.6	100.0	160.9
2	2988.125	٧	32.5	43.9	4.1	36.6	48.0	54.0	74.0	17.4	26.0	100.0	135.6
3	3295.000	Н	33.7	42.6	5.4	39.1	48.0	54.0	74.0	14.9	26.0	100.0	138.2
4	4978.125	Н	26.2	42.8	12.0	38.2	54.8	54.0	74.0	15.8	19.2	100.0	53.3
5	4981.250	٧	26.5	42.4	12.1	38.6	54.5	54.0	74.0	15.4	19.5	100.0	40.2
6	5740 625	V	28 1	36.2	15.0	43 1	51.2	54 0	74 N	10 9	22 8	100 0	176 4



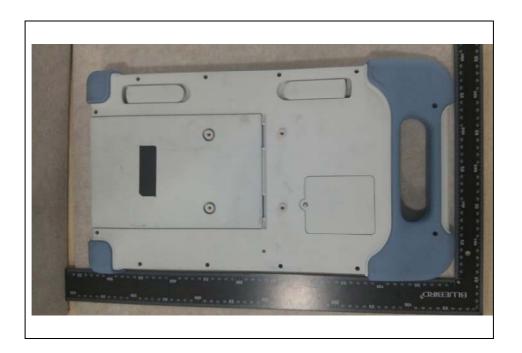
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# 7. E.U.T. photographs

#### Front View



#### Rear View





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#### Left View



#### Right View



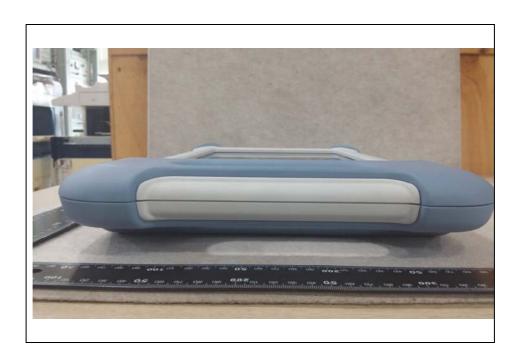


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### Top View



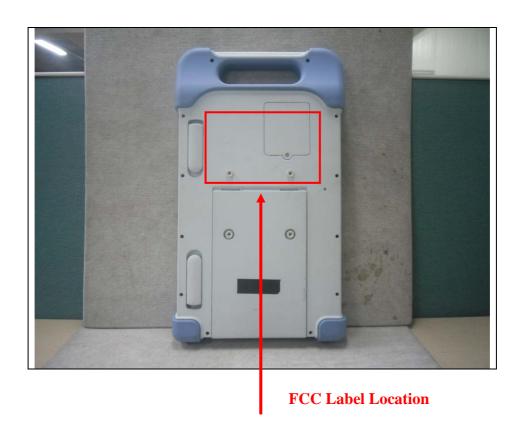
### **Bottom View**





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### <u>Label</u>







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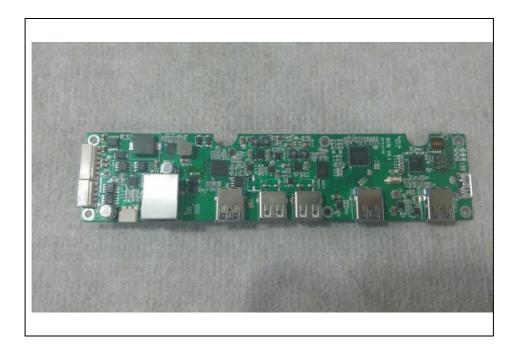
#### Main Board

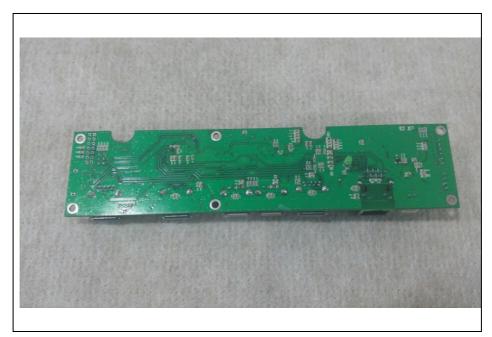






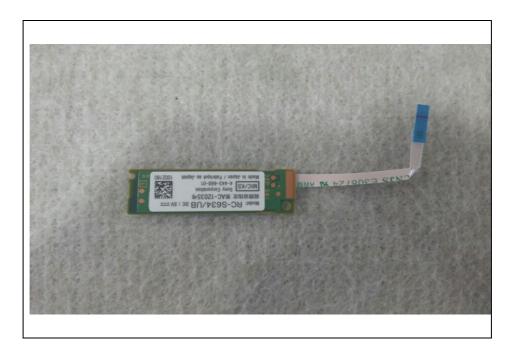
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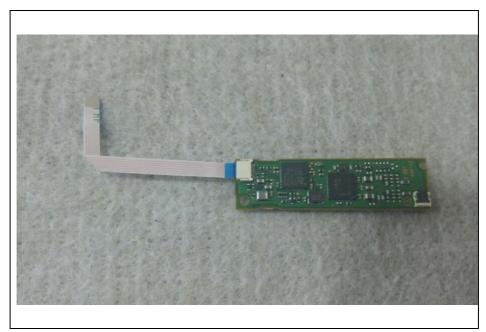






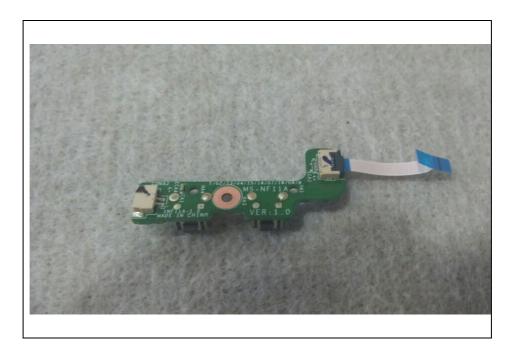
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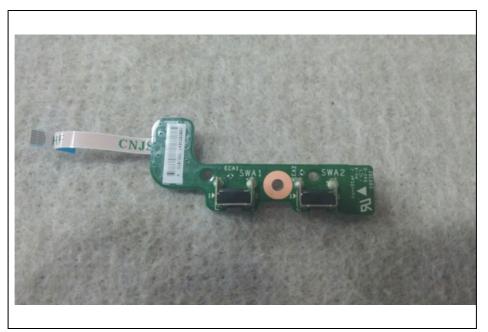






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#### **FAN**







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#### RF Module







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### AC/DC Adaptor



