



FCC ID: ZVZP42350FA2

IC ID: 9906A-P42350FA2

Report No. : EI/2012/A0001

Page : 1 of 37

FCC CERTIFICATION REPORT

Test Report No. : EI/2012/A0001

Applicant : Toshiba Co., Semiconductor & Storage

Address of Applicant : 2-5-1, Kasama, Sakae-Ku, Yokohama 247-8585, Japan

Manufacturer : Toshiba Co., Semiconductor & Storage

Address of Manufacturer : 2-5-1, Kasama, Sakae-Ku, Yokohama 247-8585, Japan

Equipment Under Test (EUT) :

Name : FlashAir

Brand Name : N/A

Model No. : WLSDTHNSWAAB

Added Model(s) : N/A

FCC ID: ZVZP42350FA2

IC ID: 9906A-P42350FA2

Standards : FCC Part 15:2010, Subpart B, Class B
Canada ICES-003(Feb. 2004)

Date of Receipt : Oct. 01, 2012

Date of Test : Oct. 01 ~ 15, 2012

Date of Issue : Nov. 01, 2012

Test Result :

PASS

In the configuration tested, the EUT complied with the standards specified above.

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report shall not be reproduced except in full, without the written approval of the laboratory. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Test By:

Date

Nov. 01, 2012

Jimmy Liu / Engineer

Prepared By:

Date

Nov. 01, 2012

Jessie Li/Clerk

Approved By

Date

Nov. 01, 2012

Jim Chang / Supervisor

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Report No. : EI/2012/A0001

Page : 2 of 37

Version

Version No.	Description	Date
00	Original report	Nov. 01, 2012

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1. General Information

1.1 Applicant & Manufacturer Information

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Manufacturer : Toshiba Co., Semiconductor & Storage

Address of Manufacturer : 2-5-1, Kasama, Sakae-Ku, Yokohama 247-8585, Japan

1.2 General Description of EUT

Name : FlashAir

Brand Name : N/A

Model No. : WLSDTHNSWAAB

Added Model(s) : N/A

FCC ID: ZVZP42350FA2

IC ID: 9906A-P42350FA2

Model Difference : N/A

1.3 Details of EUT

Tested Power Supply : From PC

Modes/Function : 1.WIFI Mode

2.Data R/W Mode

Worst case : 1.WIFI Mode

2.Data R/W Mode

Highest Internal Source Frequency : 2.472GHz

1.4 Operation Procedure

1. Set up EUT with support units and turn on the power of all equipment.
2. Pre-test the EUT in all modes by each mode, then figure the worst case out.
3. Tests under the normal operation pattern.

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1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
NB	TOSHIBA	PORTEGE R830 Series	PR731BAANRBA51
NB	TOSHIBA	SATELLITE T110 Series	PPMX3K31BG39H
Card Reader	I-O DATA	USB2-W63RW	B5E1006530YA
USB Mouse	HP	M-UAE96	390938-001
Printer	HP	DJ3820	CN34L181B1
AP	BUFFALO	WCR-GN-TW	14062514734317

1.6 Modification List

No modification by SGS Taiwan Electronics & Communication Laboratory.

1.7 Cable List

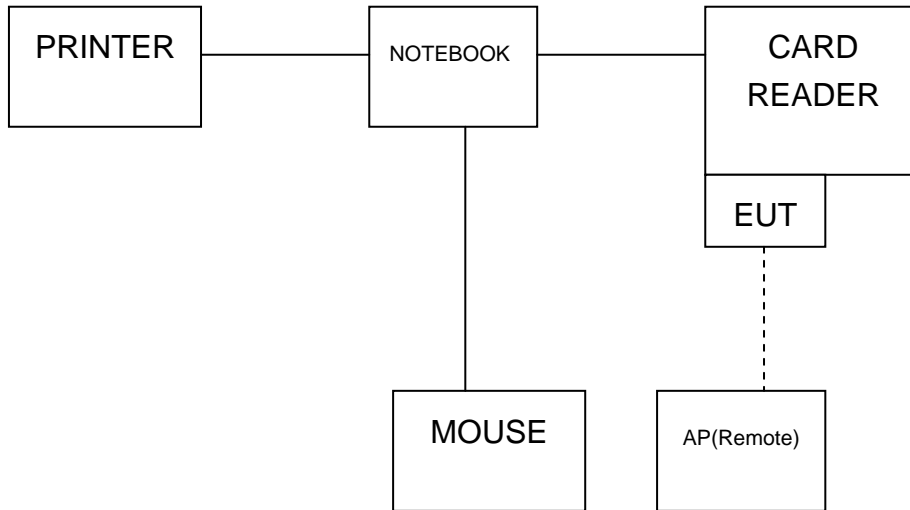
Cable Type	Length	Shield/Non-shield
N/A	N/A	N/A

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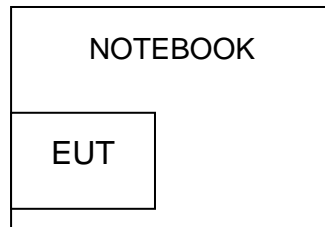
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1.8 Test Set-Up Configuration

WIFI Mode



Data R/W



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1.9 Measurement Procedure

Conducted Emission Testing was performed according ANSI C63.4:2003 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2003 at the open field test site. The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 10meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.

1.10 Standards Applicable for Testing

Table of tests to be carried out under FCC Part 15, Subpart B

Test Standards	Status
FCC Part 15, Subpart B	Applicable
Deviation from Standard	No Deviation

1.11 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Polar.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B/CISPR 22 Canada ICES-003 (Feb. 2004)	Conducted Emission	PASS	Line	0.1539	-11.56(QP)
			Neutral	0.1500	-11.51(QP)
	Radiated Emission	PASS	Hor.	108.0100	-11.09(QP)

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2. Radio Disturbance

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

2.3 Limits Of Conducted And Radiated Emission

2.3.1 Limit Of Conducted Emission Of FCC Part 15, Subpart B/CISPR 22

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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2.3.2 Limit Of Radiated Emissions Of FCC Part 15, Subpart B/CISPR 22

FCC Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV) (at 3m)		Class B (dBuV) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	79.3	59.3	73.9	53.9

CISPR Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

- Detector Function : Peak , Average – Class A

Frequency range GHz	Average Limit dB(µV/m)	Peak Limit dB(µV/m)
1 to 3	56	76
3 to 6	60	80

- Detector Function : Peak , Average – Class B

Frequency range GHz	Average Limit dB(µV/m)	Peak Limit dB(µV/m)
1 to 3	50	70
3 to 6	54	74

Note : The lower limit applies at the transition frequency.

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCS 30	828985/004	Sep. 22, 2012	Sep. 21, 2013
Coaxial Cables	N/A	WK CE Cable	N/A	Jan. 04, 2012	Jan. 03, 2013
L.I.S.N	Rolf-Heine	NNB-2/16Z	99012	Mar. 23, 2012	Mar. 22, 2013
L.I.S.N	FCC	FCC-LISN-50/250-25-2-01	04034	Mar. 23, 2012	Mar. 22, 2013
Software	Farad	EZ-EMC-VER2A1.1(USB)	N/A	N/A	N/A

2.4.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory
 No.134,Wu Kung Road, New Taipei Industrial Park,Wuku District, New Taipei City, Taiwan 24803

2.4.3 Operating Environment

Temperature : 26 degree C Humidity : 60 %RH
 Atmospheric Pressure : 992 mBar

2.4.4 Uncertainty of Conducted Emission

Expanded uncertainty (k=2) of Conducted Emission measurement is 0.98dB.

2.4.5 Measurement level and Factor calculate method

Factor = LISN insertion loss + Cable loss
 Measurement Level = Reading Level + Factor

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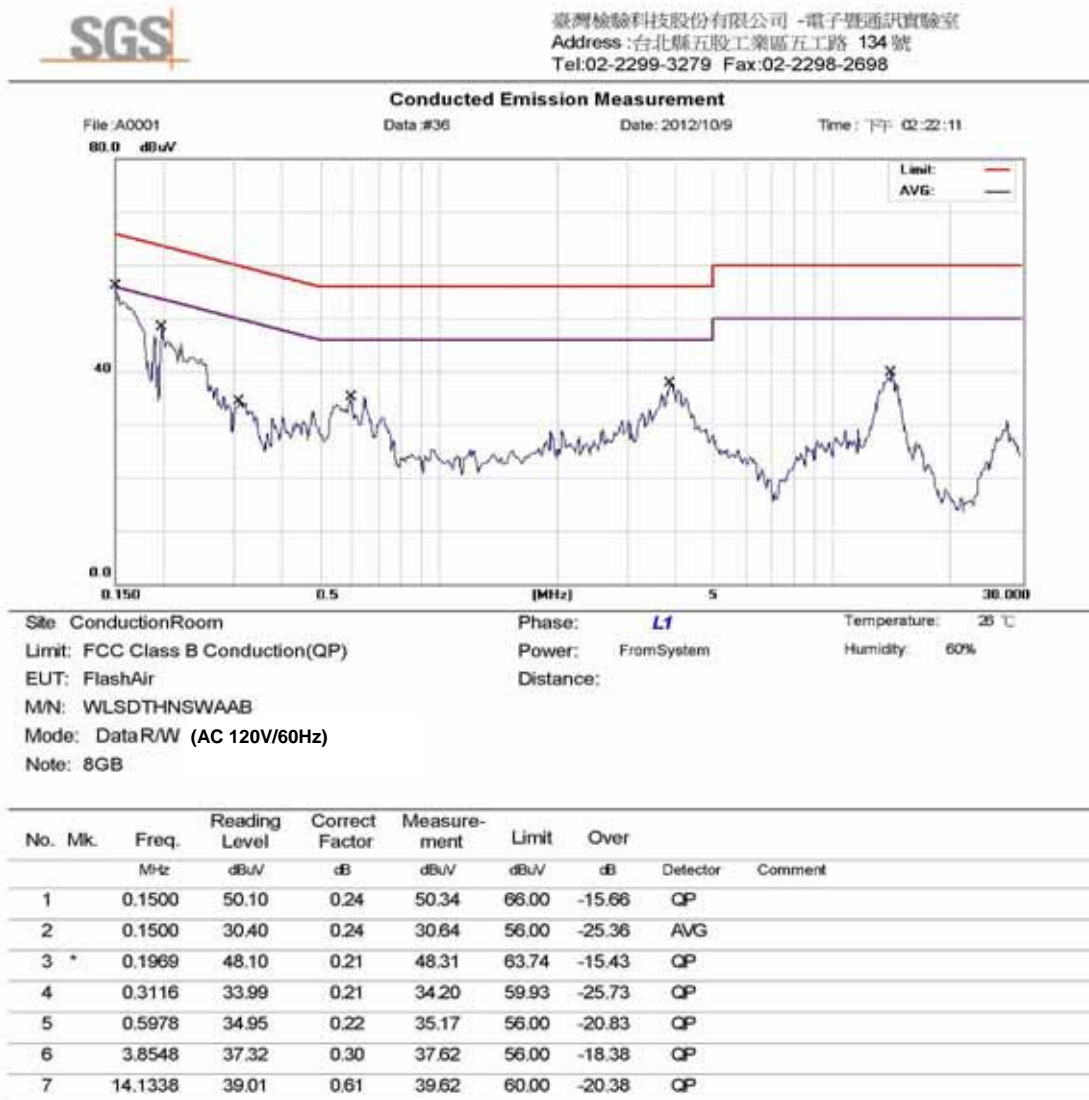
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2.4.6 Measurement Data

Data R/W Mode-8G

L:



*:Maximum data x:Over limit !:over margin

●ReferenceOnly

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Page: 1

Engineer Signature:

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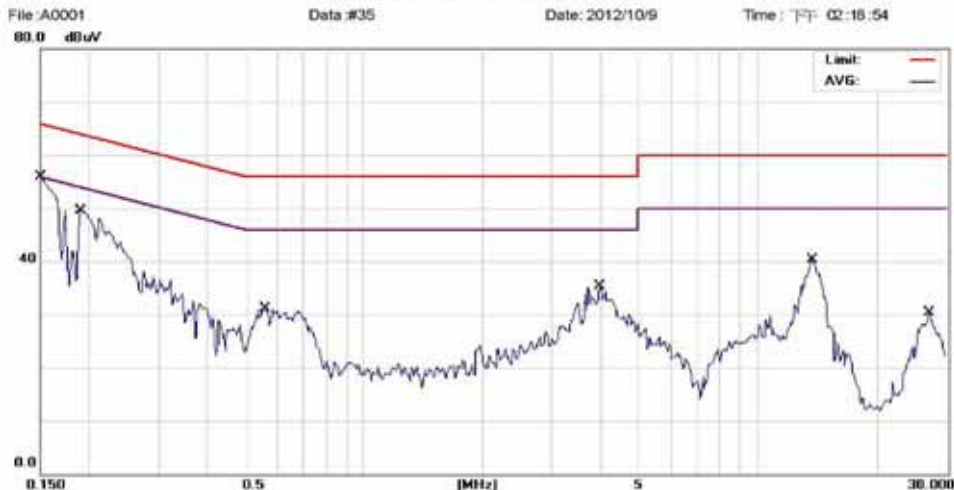
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 Address : 台北縣五股工業區五工路 134 號
 Tel:02-2299-3279 Fax:02-2298-2698

Conducted Emission Measurement



Site: ConductionRoom Phase: **N** Temperature: 25 °C
 Limit: FCC Class B Conduction(QP) Power: FromSystem Humidity: 60%
 EUT: FlashAir Distance:
 MN: WLSDTHNSWAAB
 Mode: DataR/W (AC 120V/60Hz)
 Note: 8GB

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	50.90	0.34	51.24	66.00	-14.76	QP	
2		0.1500	32.10	0.34	32.44	56.00	-23.56	AVG	
3	*	0.1904	49.14	0.32	49.46	64.02	-14.56	QP	
4		0.5626	30.77	0.33	31.10	56.00	-24.90	QP	
5		3.9643	34.95	0.35	35.30	56.00	-20.70	QP	
6		13.7975	39.71	0.57	40.28	60.00	-19.72	QP	
7		27.3105	29.33	0.91	30.24	60.00	-29.76	QP	

*:Maximum data x:Over limit !:over margin ●Reference Only

File :A0001\Data :#35

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Engineer Signature:

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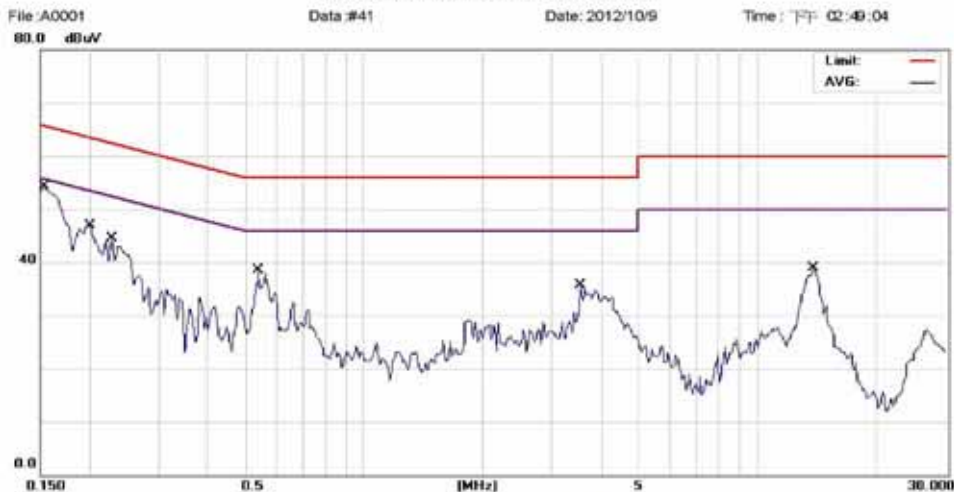
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**WIFI Mode-8G
L:**



臺灣檢驗科技股份有限公司 - 電子電訊實驗室
Address : 台北縣五股工業區五工路 134 號
Tel:02-2299-3279 Fax:02-2298-2698

Conducted Emission Measurement



Site: ConductionRoom Phase: **L1** Temperature: 25 °C
Limit: FCC Class B Conduction(QP) Power: FromSystem Humidity: 60%
EUT: FlashAir Distance:
MN: WLSDTHNSWAAB
Mode: WIFI mode (AC 120V/60Hz)
Note: 8GB

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1539	53.99	0.24	54.23	65.79	-11.56	QP	
2		0.2008	46.79	0.21	47.00	63.58	-16.58	QP	
3		0.2282	44.22	0.21	44.43	62.51	-18.08	QP	
4		0.5391	38.21	0.22	38.43	56.00	-17.57	QP	
5		3.5420	35.51	0.29	35.80	56.00	-20.20	QP	
6		13.8679	38.41	0.59	39.00	60.00	-21.00	QP	

*:Maximum data x:Over limit !:over margin

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File : A0001\Data :#41

Page: 1

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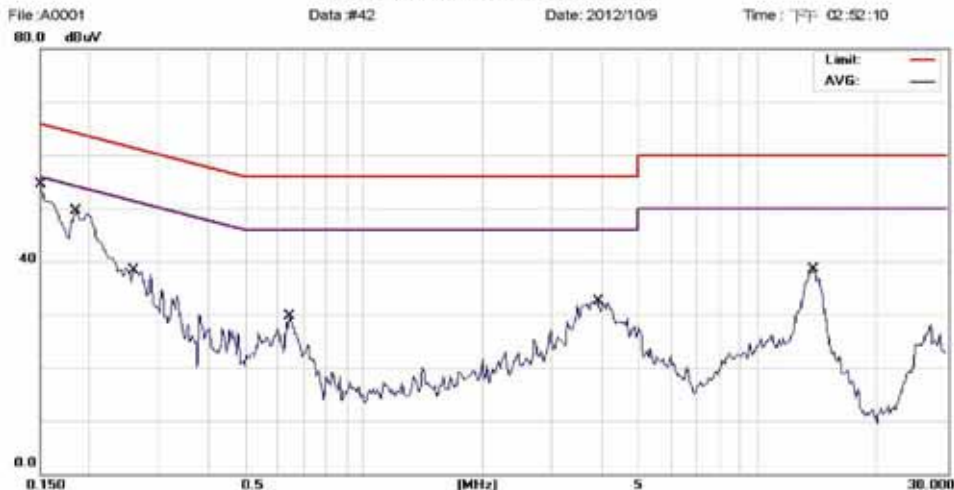
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Conducted Emission Measurement



File :A0001 Data #42 Date: 2012/10/9 Time: 下午 02:52:10
 Site: ConductionRoom Phase: **N** Temperature: 25 °C
 Limit: FCC Class B Conduction(QP) Power: FromSystem Humidity: 60%
 EUT: FlashAir Distance:
 MN: WLSDTHNSWAAB
 Mode: WiFi mode (AC 120V/60Hz)
 Note: 8GB

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	54.15	0.34	54.49	66.00	-11.51	QP	
2		0.1852	49.25	0.32	49.57	64.25	-14.68	QP	
3		0.2595	38.07	0.32	38.39	61.45	-23.06	QP	
4		0.6447	29.40	0.33	29.73	56.00	-26.27	QP	
5		3.9291	32.24	0.35	32.59	56.00	-23.41	QP	
6		13.8718	37.86	0.57	38.43	60.00	-21.57	QP	

*:Maximum data x:Over limit !:over margin ●Reference Only

File :A0001\Data #42

Page: 1

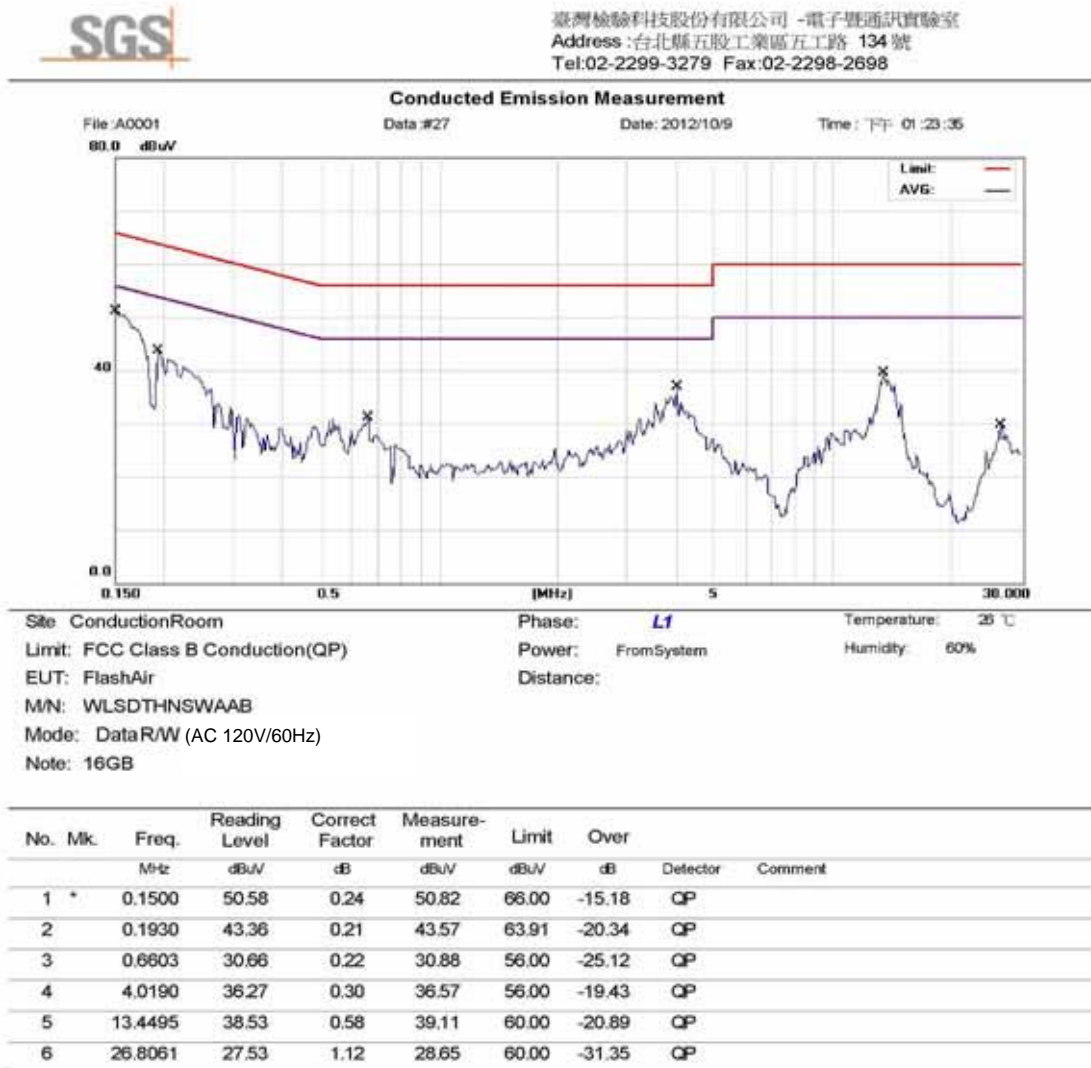
Engineer Signature:

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Data R/W Mode-16G
L:



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●Reference Only

File: A0001\Data: #27

Page: 1

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Conducted Emission Measurement

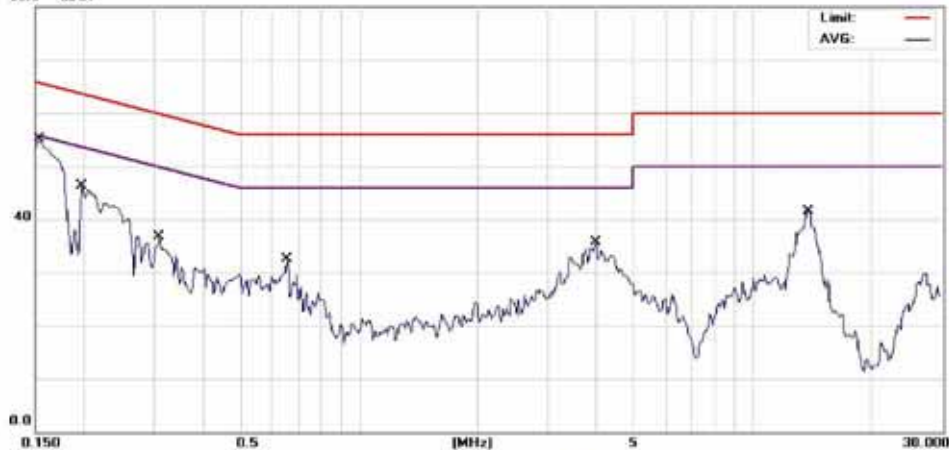
File :A0001

Data #28

Date: 2012/10/9

Time: 下午 01:25:25

80.0 dBuV



Site: ConductionRoom

Phase: N

Temperature: 25 °C

Limit: FCC Class B Conduction(QP)

Power: FromSystem

Humidity: 60%

EUT: FlashAir

Distance:

M/N: WLSDTHNSWAAB

Mode: DataR/W (AC 120V/60Hz)

Note: 16GB

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1539	51.28	0.34	51.62	65.79	-14.17	QP	
2		0.1539	34.98	0.34	35.32	55.79	-20.47	AVG	
3		0.1969	45.80	0.31	46.11	63.74	-17.63	QP	
4		0.3103	36.00	0.32	36.32	59.96	-23.64	QP	
5		0.6564	31.85	0.33	32.18	56.00	-23.82	QP	
6		3.9955	35.15	0.35	35.50	56.00	-20.50	QP	
7		13.8953	40.47	0.58	41.05	60.00	-18.95	QP	

*:Maximum data x:Over limit !:over margin

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File :A0001\Data :#28

Page: 1

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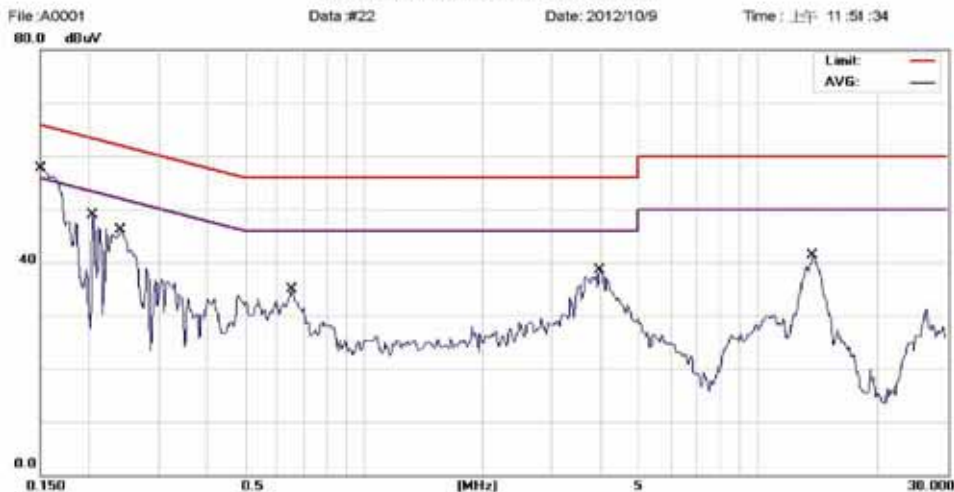
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WIFI Mode-16G
L:



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Conducted Emission Measurement



Site: ConductionRoom Phase: **L1** Temperature: 25 °C
 Limit: FCC Class B Conduction(QP) Power: FromSystem Humidity: 60%
 EUT: FlashAir Distance:
 M/N: WLSDTHNSWAAB
 Mode: WIFI mode (AC 120V/60Hz)
 Note: 16GB

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	53.11	0.24	53.35	66.00	-12.65	QP	
2		0.1500	40.78	0.24	41.02	56.00	-14.98	AVG	
3		0.2047	48.43	0.21	48.64	63.42	-14.78	QP	
4		0.2399	45.79	0.21	46.00	62.10	-16.10	QP	
5		0.6564	34.48	0.22	34.70	56.00	-21.30	QP	
6		3.9682	37.94	0.30	38.24	56.00	-17.76	QP	
7		13.8327	40.18	0.59	40.77	60.00	-19.23	QP	

*:Maximum data x:Over limit !:over margin

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File : A0001\Data :#22

Page: 1

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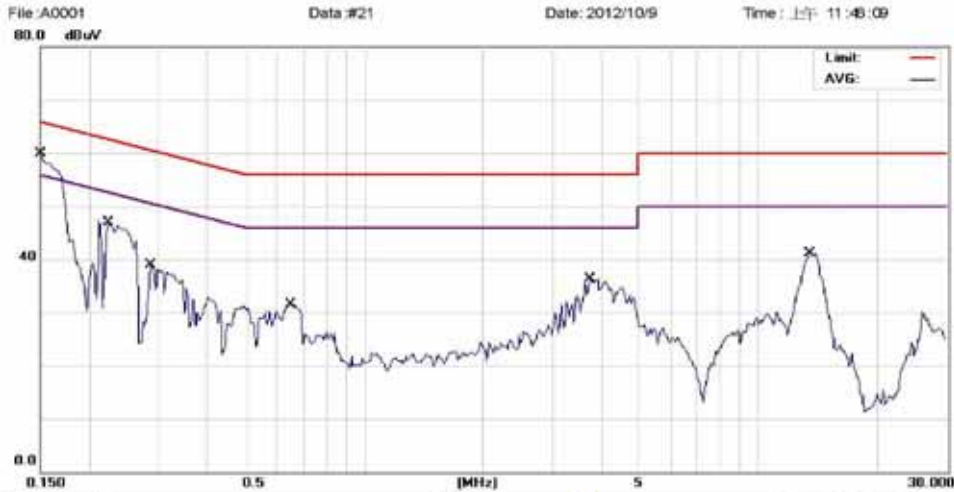
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Conducted Emission Measurement



Site: ConductionRoom Phase: **N** Temperature: 25 °C
 Limit: FCC Class B Conduction(QP) Power: FromSystem Humidity: 60%
 EUT: FlashAir Distance:
 MN: WLSDTHNSWAAB
 Mode: WiFi mode (AC 120V/60Hz)
 Note: 16GB

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	53.98	0.34	54.32	66.00	-11.68	QP	
2		0.1500	41.28	0.34	41.62	56.00	-14.38	AVG	
3		0.2243	46.24	0.31	46.55	62.66	-16.11	QP	
4		0.2868	38.33	0.32	38.65	60.62	-21.97	QP	
5		0.6486	30.92	0.33	31.25	56.00	-24.75	QP	
6		3.7453	35.57	0.35	35.92	56.00	-20.08	QP	
7		13.5903	40.15	0.57	40.72	60.00	-19.28	QP	

*:Maximum data x:Over limit !:over margin

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2.5 Test of Radiated Emission

2.5.1 Test Instruments

Below 1G

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Site NSA	TDK	966 Chamber	N/A	Nov. 06, 2011	Nov. 05, 2012
EMI Test Receiver	ROHDE&SCHWARZ	ESCI 7	100760	May 25, 2012	May 24, 2013
Spectrum Analyzer	Agilent	E4440A	MY45304525	Mar. 17, 2012	Mar. 16, 2014
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3136	Dec. 28, 2011	Dec. 27, 2012
RF-Amplifier	HP	8447D	2944A09469	Nov. 26, 2011	Nov. 25, 2012
Antenna Master	HD GmbH	MA240-N	240/657	N/A	N/A
Turn Table	HD GmbH	DS420	420/542	N/A	N/A
Controller	HD GmbH	HD 100	100/803	N/A	N/A
CCD Video Camera System	N/A	VCS-04	N/A	N/A	N/A
Color Monitor	Lenovo	16dcpw5-1	N/A	N/A	N/A
Software	Farad	EZ-EMC-VER2A1.1(U SB)	N/A	N/A	N/A

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Above 1G

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Site NSA	Chamost	966II Chamber	N/A	Dec. 30, 2011	Dec. 29, 2012
Site VSWR	Chamost	966II Chamber	N/A	Dec. 30, 2011	Dec. 29, 2012
EMI Test Receiver	ROHDE&SCHWARZ	ESCI 7	100760	May 25, 2012	May 24, 2013
Spectrum Analyzer	Agilent	E4440A	MY45304525	Mar. 17, 2012	Mar. 16, 2014
RF-Amplifier (0.1-1300MHz)	HP	8447D	1937A02774	Nov. 26, 2011	Nov. 25, 2012
RF-Amplifier (1-26.5GHz)	HP	8449B	3008A00578	Dec. 27, 2011	Dec. 26, 2012
RF-Amplifier (26-40GHz)	EM Electronics Corp.	EM26400	N/A	Dec. 28, 2011	Dec. 27, 2012
Coaxial Cables (For 9kHz~26.5GHz)	SUCOFLEX	104PEA	N/A	Dec. 28, 2011	Dec. 27, 2012
Re Cables (966II) (For 1~40GHz)	HUBER SUHNER	SUCCOFLEX 102	22962/2	Dec. 28, 2011	Dec. 27, 2012
Re Cables (966II) (For 1~40GHz)	HUBER SUHNER	SUCCOFLEX 102	23051/2	Dec. 28, 2011	Dec. 27, 2012
Antenna Master	MF.	N/A	N/A	N/A	N/A
Turn Table	MF.	N/A	N/A	N/A	N/A
Controller	MF.	3000	MF780208153	N/A	N/A
Antenna	SCHWAZBECK	VULB9160	3068	Nov. 01, 2011	Oct. 31, 2012
Horn Antenna (For 1~18G)	ETS-Lindgren	3117	00135200	Oct. 05, 2012	Oct. 04, 2013
Horn Antenna (For 18~40G)	SCHWAZBECK	BBHA 9170	BBHA9170185	Jul. 11, 2011	Jul. 10, 2013
Software	Farad	EZ-EMC-VER2A1.1(USB)	N/A	N/A	N/A

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2.5.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory
No.134,Wu Kung Road, New Taipei Industrial Park,Wuku District, New Taipei City, Taiwan 24803
No. 29, Pau-Tou-Tsuo Valley, Chia-Pau Tsuen, Linkou Dist., Taipei County 244, Taiwan (R.O.C.)

2.5.3 Operating Environment

Temperature : 25 degree C Humidity : 80 %RH
Atmospheric Pressure : 996 mBar

2.5.4 Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 3.70dB.(30-1000MHz)
Expanded uncertainty (k=2) of radiated emission measurement is 5.34dB.(1~18GHz)

2.5.5 Measurement level and Factor calculate method

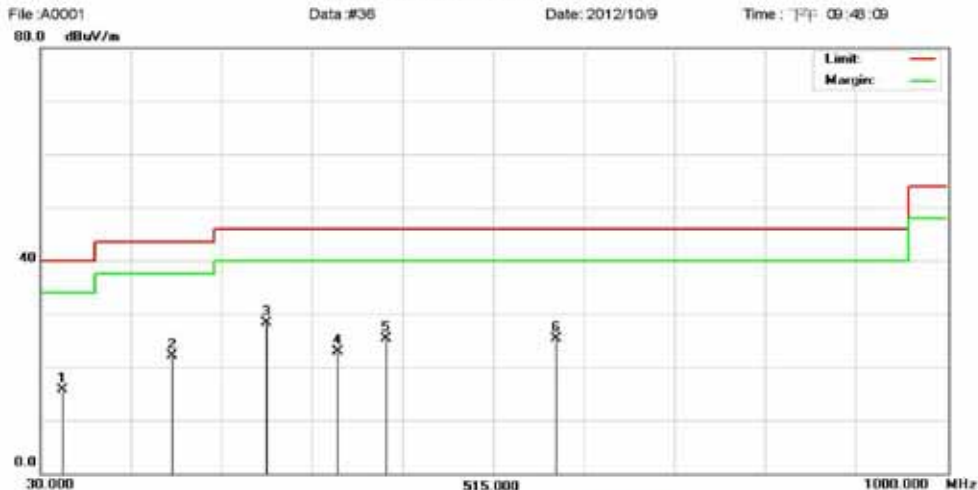
Factor = Antenna loss + Cable loss + Amplifier Compensate
Measurement Level = Reading Level + Factor

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2.5.6 Measurement Data Data R/W Mode-8G Horizontal polarization

Radiated Emission Measurement



Site : 9'6" Chamber	Polarization: Horizontal	Temperature: 25 °C
Limit: FCC Class B 3M Radiation	Power: From System	Humidity: 60%
EUT: FlashAir	Distance: 3m	Air Pressure: 1002hpa
M/N: WLSDTHNSWAAB		
Note: Data R/W 8GB		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		53.4400	31.60	-15.87	15.73	40.00	-24.27	QP	
2		171.1500	36.35	-14.22	22.13	43.50	-21.37	QP	
3	*	271.6100	41.47	-13.08	28.39	46.00	-17.61	QP	
4		348.8400	34.18	-11.25	22.93	46.00	-23.07	QP	
5		400.0100	35.33	-10.05	25.28	46.00	-20.72	QP	
6		582.7200	31.61	-6.23	25.38	46.00	-20.62	QP	

*:Maximum data x:Over limit !:over margin

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File :A0001\Data :#36

Page: 1

Engineer Signature:

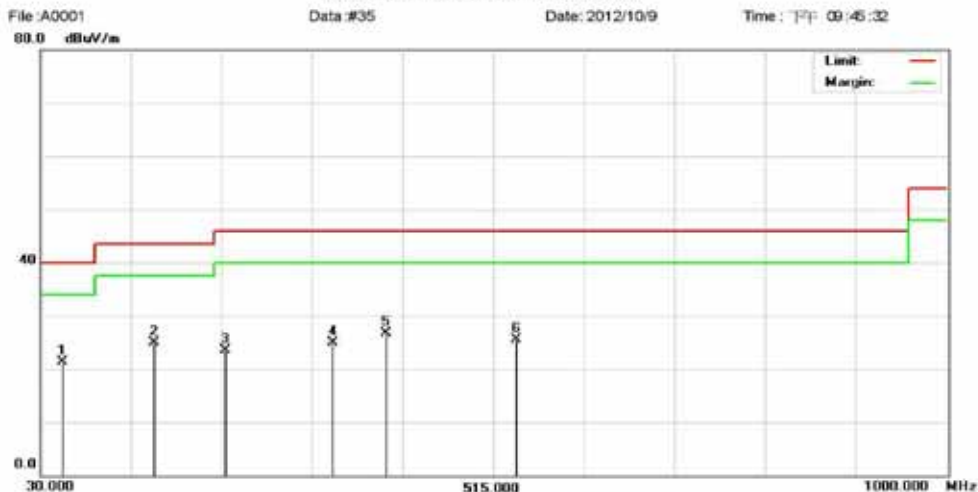
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Vertical polarization

Radiated Emission Measurement



Site : 9*6*6 Chamber	Polarization: Vertical	Temperature: 25 °C
Limit: FCC Class B 3M Radiation	Power: From System	Humidity: 60%
EUT: FlashAir	Distance: 3m	Air Pressure: 1002hpa
MN: WLSDTHNSWAAB		
Note: DataR/W		
8GB		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		53.4800	37.18	-15.87	21.31	40.00	-18.69	QP	
2	*	152.0500	39.18	-14.22	24.96	43.50	-18.54	QP	
3		227.6000	38.50	-15.02	23.48	46.00	-22.52	QP	
4		342.6600	36.14	-11.29	24.85	46.00	-21.15	QP	
5		400.0100	36.85	-10.05	26.80	46.00	-19.20	QP	
6		539.5400	32.77	-7.17	25.60	46.00	-20.40	QP	

*:Maximum data x:Over limit !:over margin ●Reference Only

File :A0001\Data :#35

Page: 1

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Data R/W Mode-16G
Horizontal polarization



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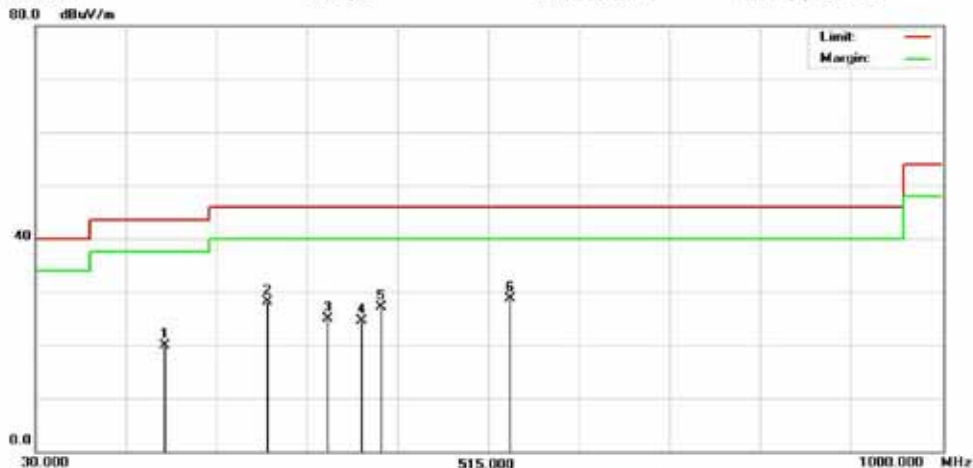
Radiated Emission Measurement

File:A0001

Data:#32

Date:2012/10/9

Time: 10:25:33



Site : 9*6*6 Chamber

Limit: FCC Class B 3M Radiation

EUT: FlashAir

M/N: WLSDTHNSWAAB

Note: DataR/W

16GB

Polarization: **Horizontal**

Power: From System

Distance: 3m

Temperature: 25 °C

Humidity: 60%

Air Pressure: 1002hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		168.0700	34.07	-14.16	19.91	43.50	-23.59	QP	
2		278.0000	40.94	-12.81	28.13	46.00	-17.87	QP	
3		342.7100	36.25	-11.29	24.96	46.00	-21.04	QP	
4		379.3550	34.75	-10.32	24.43	46.00	-21.57	QP	
5		400.0100	37.24	-10.05	27.19	46.00	-18.81	QP	
6	*	537.6500	36.03	-7.34	28.69	46.00	-17.31	QP	

*:Maximum data x:Over limit !:over margin

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File :A0001\Data:#32

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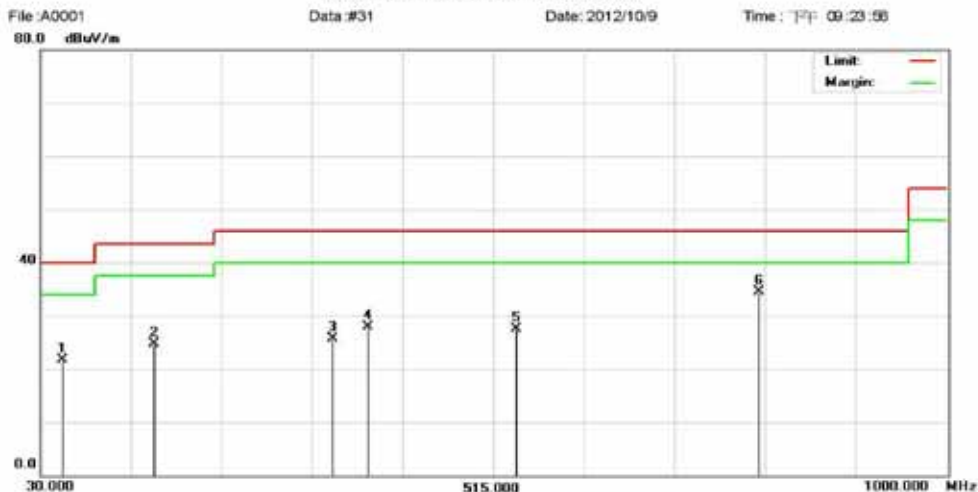
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Vertical polarization

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Radiated Emission Measurement



Site : 9'6"6 Chamber Polarization: **Vertical** Temperature: 25 °C
 Limit: FCC Class B 3M Radiation Power: From System Humidity: 60%
 EUT: FlashAir Distance: 3m Air Pressure: 1002hpa
 MN: WLSDTHNSWAAB
 Note: DataR/W
 16GB

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		53.4400	37.58	-15.87	21.71	40.00	-18.29	QP	
2		151.7200	38.91	-14.22	24.69	43.50	-18.81	QP	
3		342.7500	36.93	-11.29	25.64	46.00	-20.36	QP	
4		380.7500	38.22	-10.28	27.94	46.00	-18.06	QP	
5		539.5400	34.68	-7.17	27.51	46.00	-18.49	QP	
6	*	800.0050	36.92	-2.34	34.58	46.00	-11.42	QP	

*:Maximum data x:Over limit !:over margin

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File :A0001\Data:#31

Page: 1

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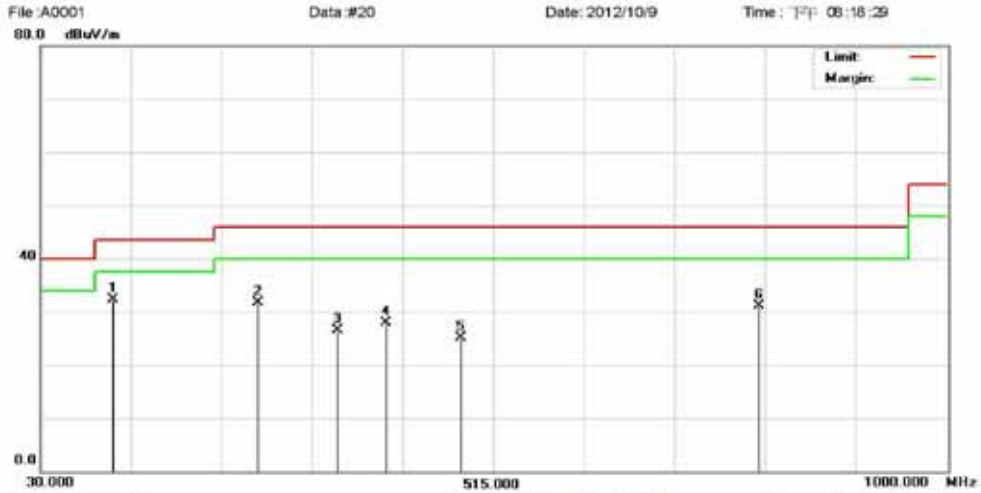
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WiFi Mode-8G
Horizontal polarization



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Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement



Site : 9'6"6 Chamber Polarization: **Horizontal** Temperature: 25 °C
Limit: FCC Class B 3M Radiation Power: From System Humidity: 60%
EUT: FlashAir Distance: 3m Air Pressure: 1002hpa
MN: WLSDTHNSWAAB
Note: WiFi mode
8GB

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	108.0000	49.93	-17.63	32.30	43.50	-11.20	QP	
2		262.0200	45.28	-13.49	31.79	46.00	-14.21	QP	
3		348.0200	37.68	-11.25	26.43	46.00	-19.57	QP	
4		400.0300	37.90	-10.05	27.85	46.00	-18.15	QP	
5		480.8600	33.87	-8.78	25.09	46.00	-20.91	QP	
6		799.9800	33.47	-2.34	31.13	46.00	-14.87	QP	

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Vertical polarization

Radiated Emission Measurement



Site : 9'6"6 Chamber	Polarization: Vertical	Temperature: 25 °C
Limit: FCC Class B 3M Radiation	Power: From System	Humidity: 60%
EUT: FlashAir	Distance: 3m	Air Pressure: 1002hpa
MN: WLSDTHNSWAAB		
Note: WiFi mode		
8GB		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		53.4750	36.96	-15.87	21.09	40.00	-18.91	QP	
2		120.0200	38.31	-16.39	21.92	43.50	-21.58	QP	
3		152.0600	41.66	-14.22	27.44	43.50	-16.06	QP	
4		227.9800	38.90	-15.02	23.88	46.00	-22.12	QP	
5		400.0300	37.22	-10.05	27.17	46.00	-18.83	QP	
6	*	800.0050	36.75	-2.34	34.41	46.00	-11.59	QP	

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WiFi Mode-16G
Horizontal polarization



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Tel:02-2299-3279 Fax:02-2298-2698

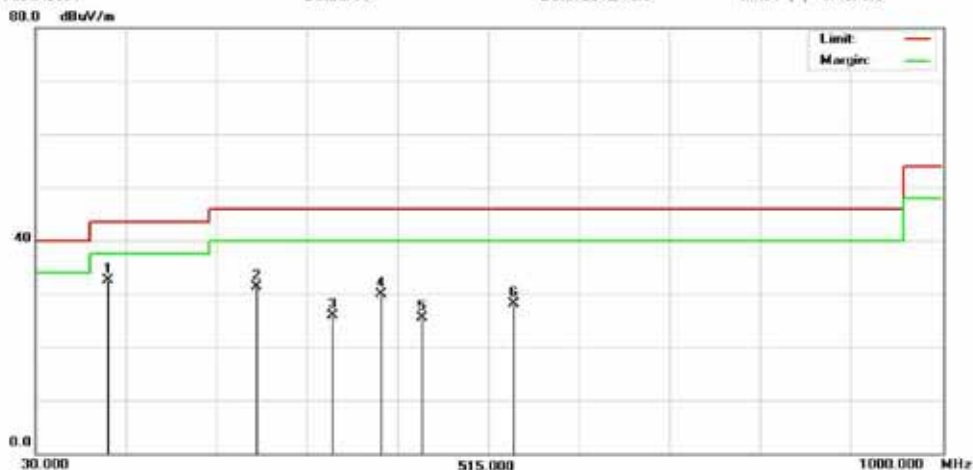
Radiated Emission Measurement

File:A0001

Data:#16

Date:2012/10/9

Time: 17:07:57:18



Site : 9'6"6 Chamber
Limit: FCC Class B 3M Radiation
EUT: FlashAir
MN: WLSDTHNSWAAB
Note: WiFi mode
16GB

Polarization: **Horizontal**
Power: From System
Distance: 3m
Temperature: 25 °C
Humidity: 60%
Air Pressure: 1002hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	108.0100	50.03	-17.62	32.41	43.50	-11.09	QP	
2		267.0800	44.54	-13.27	31.27	46.00	-14.73	QP	
3		348.0000	37.07	-11.25	25.82	46.00	-20.18	QP	
4		399.9900	39.89	-10.05	29.84	46.00	-16.16	QP	
5		444.0100	34.84	-9.26	25.58	46.00	-20.42	QP	
6		541.6000	35.21	-7.14	28.07	46.00	-17.93	QP	

*:Maximum data x:Over limit !:over margin

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File :A0001\Data:#16

Page: 1

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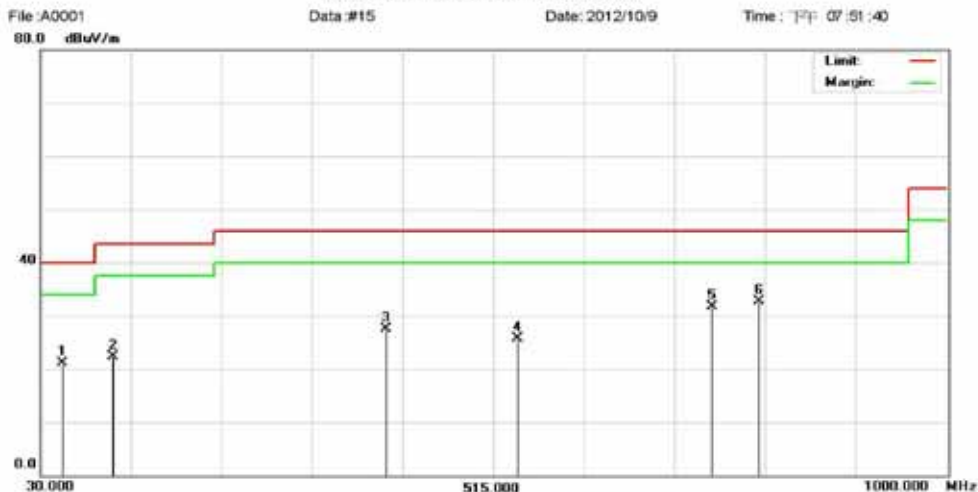
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Vertical polarization

Radiated Emission Measurement



Site : 9*6*6 Chamber Polarization: **Vertical** Temperature: 25 °C
 Limit: FCC Class B 3M Radiation Power: From System Humidity: 60%
 EUT: FlashAir Distance: 3m Air Pressure: 1002hpa
 MN: WLSDTHNSWAAB
 Note: WiFi mode
 16GB

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		53.4200	37.05	-15.87	21.18	40.00	-18.82	QP	
2		108.0200	39.91	-17.62	22.29	43.50	-21.21	QP	
3		400.0100	37.62	-10.05	27.57	46.00	-18.43	QP	
4		540.4600	32.75	-7.12	25.63	46.00	-20.37	QP	
5		749.6800	33.78	-2.07	31.71	46.00	-14.29	QP	
6	*	799.9800	35.04	-2.34	32.70	46.00	-13.30	QP	

*:Maximum data x:Over limit !:over margin

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File :A0001\Data :#15

Page: 1

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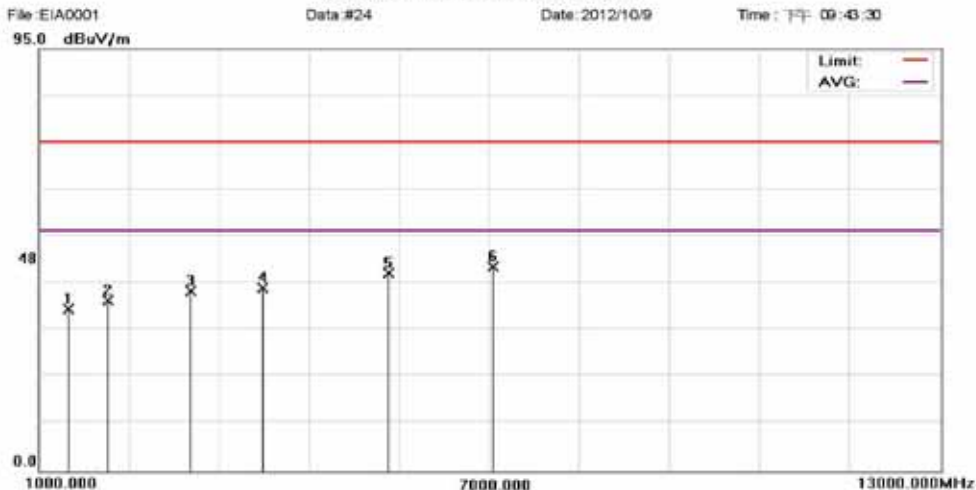
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**HRE
Data R/W Mode-8G
Horizontal polarization**

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Address: 台北縣五股工業區五工路 134 號
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Radiated Emission Measurement



Site : 966-2 Chamber
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
EUT: FlashAir
MN: THNSW008GAA-B
Mode: Data R/W Mode
Note:

Polarization: **Horizontal**
Power: From System
Distance:

Temperature: 25 °C
Humidity: 60%

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1384.000	39.06	-2.71	36.35	74.00	-37.65	peak	
2		1912.000	37.99	0.37	38.36	74.00	-35.64	peak	
3		3016.000	37.02	3.38	40.40	74.00	-33.60	peak	
4		3976.000	36.04	5.09	41.13	74.00	-32.87	peak	
5		5656.000	36.80	7.68	44.48	74.00	-29.52	peak	
6	*	7048.000	36.51	9.36	45.87	74.00	-28.13	peak	

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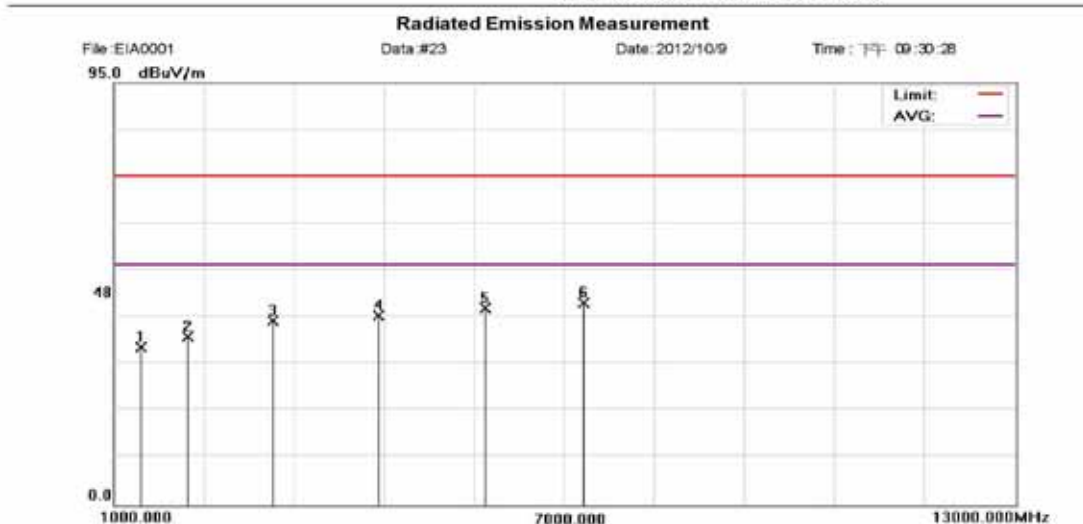
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Vertical polarization

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 Address: 台北縣五股工業區五工路 134 號
 Tel: 02-2299-3279 Fax: 02-2298-2698



Site : 966-2 Chamber Polarization: **Vertical** Temperature: 25 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: From System Humidity: 60%
 EUT: FlashAir Distance:
 MN: THNSW008GAA-B
 Mode: Data R/W Mode
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1360.000	38.23	-2.75	35.48	74.00	-38.52	peak	
2		1984.000	36.94	0.98	37.92	74.00	-36.08	peak	
3		3112.000	37.90	3.53	41.43	74.00	-32.57	peak	
4		4528.000	36.63	6.05	42.68	74.00	-31.32	peak	
5		5944.000	36.00	8.30	44.30	74.00	-29.70	peak	
6	*	7264.000	36.13	9.42	45.55	74.00	-28.45	peak	

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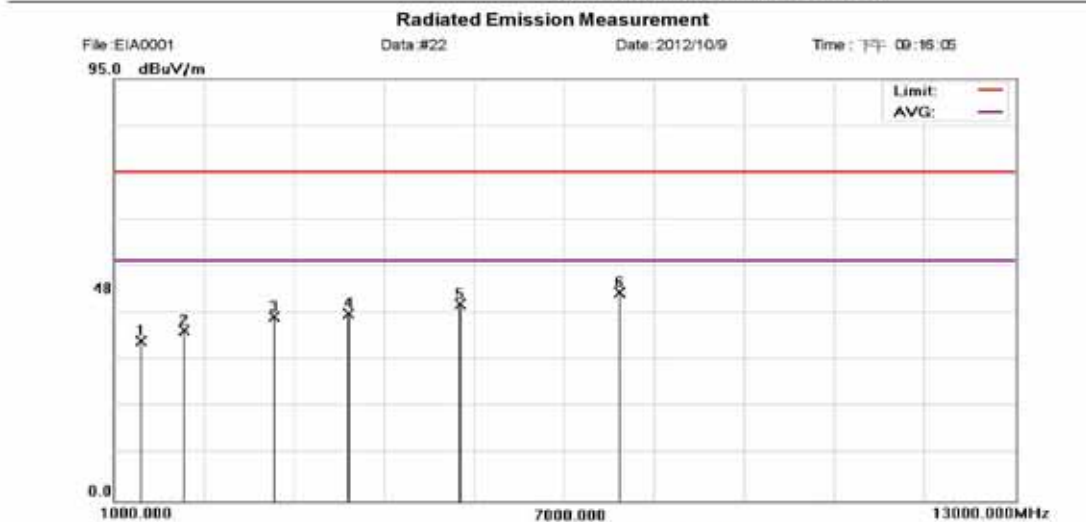
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Data R/W Mode-16G
Horizontal polarization

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Tel: 02-2299-3279 Fax: 02-2298-2698



Site : 966-2 Chamber
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
EUT: FlashAir
MN: THNSW016GAA-B
Mode: Data R/W Mode
Note:

Polarization: **Horizontal**
Power: From System
Distance:

Temperature: 25 °C
Humidity: 60%

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1360.000	38.84	-2.75	36.09	74.00	-37.91	peak	
2		1936.000	37.79	0.58	38.37	74.00	-35.63	peak	
3		3136.000	37.96	3.56	41.42	74.00	-32.58	peak	
4		4120.000	36.90	5.26	42.16	74.00	-31.84	peak	
5		5608.000	36.74	7.62	44.36	74.00	-29.64	peak	
6	*	7744.000	36.82	9.97	46.79	74.00	-27.21	peak	

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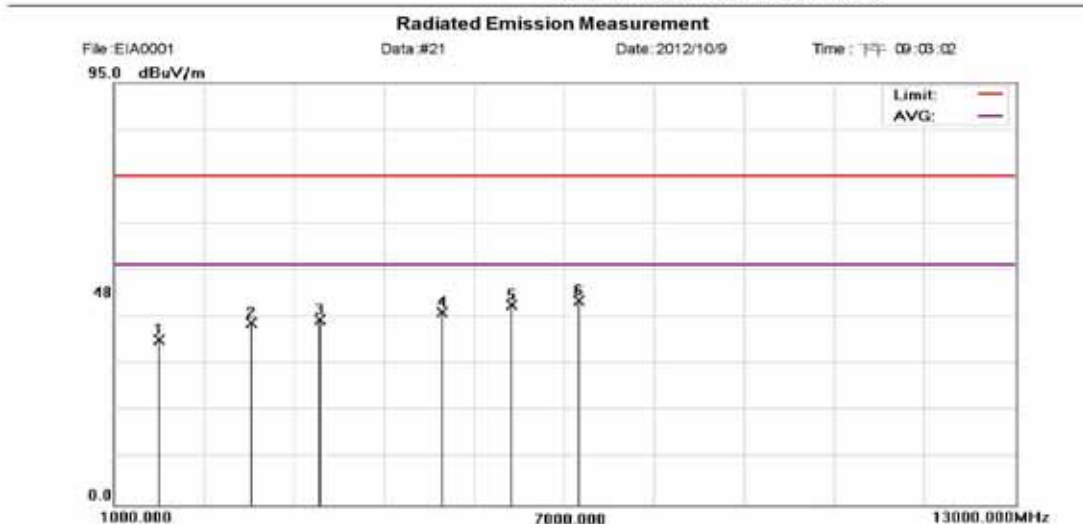
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Vertical polarization

臺灣檢驗科技股份有限公司-電子電訊實驗室
 Address: 台北縣五股工業區五工路 134 號
 Tel: 02-2299-3279 Fax: 02-2298-2698



Site : 966-2 Chamber Polarization: **Vertical** Temperature: 25 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: From System Humidity: 60%
 EUT: FlashAir Distance:
 MN: THNSW016GAA-B
 Mode: Data R/W Mode
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1600.000	39.01	-1.90	37.11	74.00	-36.89	peak	
2		2824.000	38.03	2.95	40.98	74.00	-33.02	peak	
3		3736.000	36.88	4.74	41.62	74.00	-32.38	peak	
4		5368.000	36.00	7.27	43.27	74.00	-30.73	peak	
5		6304.000	36.14	8.83	44.97	74.00	-29.03	peak	
6	*	7192.000	36.47	9.40	45.87	74.00	-28.13	peak	

*:Maximum data x:Over limit !:over margin ●ReferenceOnly

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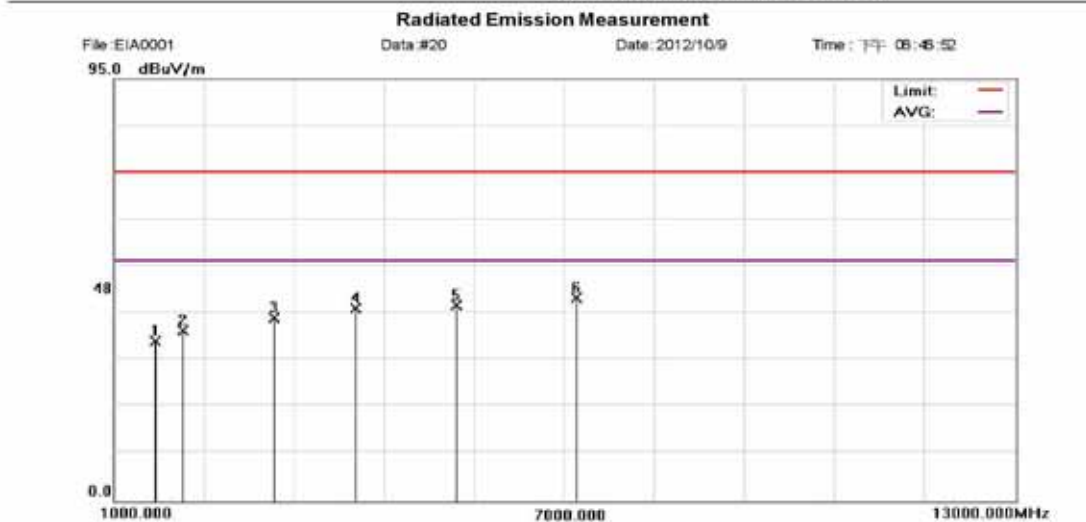
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**WiFi Mode-8G
Horizontal polarization**

臺灣檢驗科技股份有限公司-電子電訊實驗室
Address: 台北縣五股工業區五工路 134 號
Tel: 02-2299-3279 Fax: 02-2298-2698



Site : 966-2 Chamber Polarization: **Horizontal** Temperature: 25 °C
Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: From System Humidity: 60%
EUT: FlashAir Distance:
MN: THNSW008GAA-B
Mode: Wifi Link Mode
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1552.000	38.07	-2.18	35.89	74.00	-38.11	peak	
2		1912.000	37.95	0.37	38.32	74.00	-35.68	peak	
3		3136.000	37.61	3.56	41.17	74.00	-32.83	peak	
4		4216.000	37.99	5.38	43.37	74.00	-30.63	peak	
5		5560.000	36.51	7.55	44.06	74.00	-29.94	peak	
6	*	7168.000	36.22	9.39	45.61	74.00	-28.39	peak	

*:Maximum data x:Over limit !:over margin ●ReferenceOnly

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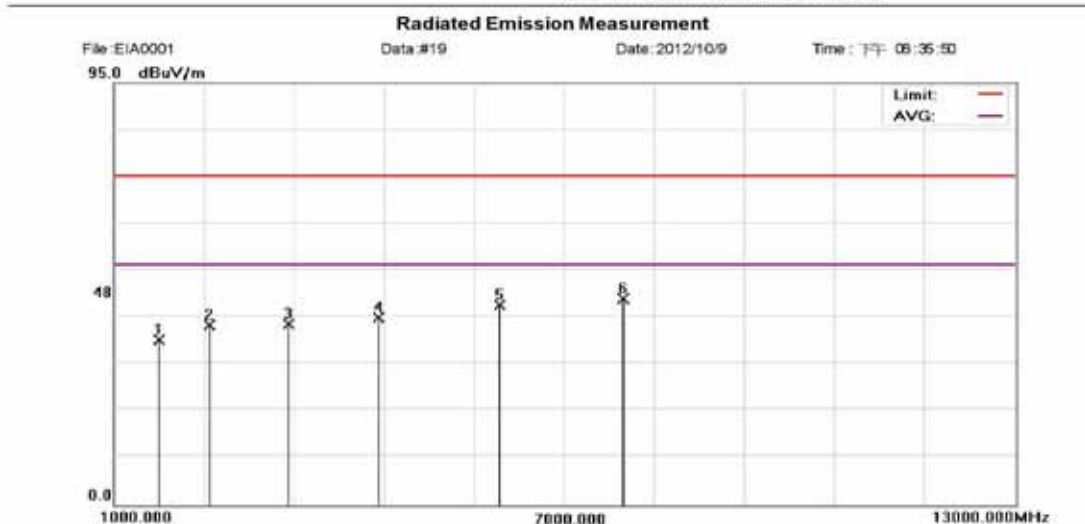
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Vertical polarization

臺灣檢驗科技股份有限公司-電子通訊實驗室
 Address: 台北縣五股工業區五工路 134 號
 Tel: 02-2299-3279 Fax: 02-2298-2698



Site : 966-2 Chamber Polarization: **Vertical** Temperature: 25 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: From System Humidity: 60%
 EUT: FlashAir Distance:
 MN: THNSW008GAA-B
 Mode: Wifi Link Mode
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1600.000	38.96	-1.90	37.06	74.00	-36.94	peak	
2		2272.000	38.76	1.84	40.60	74.00	-33.40	peak	
3		3328.000	36.74	3.89	40.63	74.00	-33.37	peak	
4		4528.000	36.14	6.05	42.19	74.00	-31.81	peak	
5		6136.000	36.39	8.63	45.02	74.00	-28.98	peak	
6	*	7792.000	36.40	10.03	46.43	74.00	-27.57	peak	

*:Maximum data x:Over limit !:over margin ●ReferenceOnly

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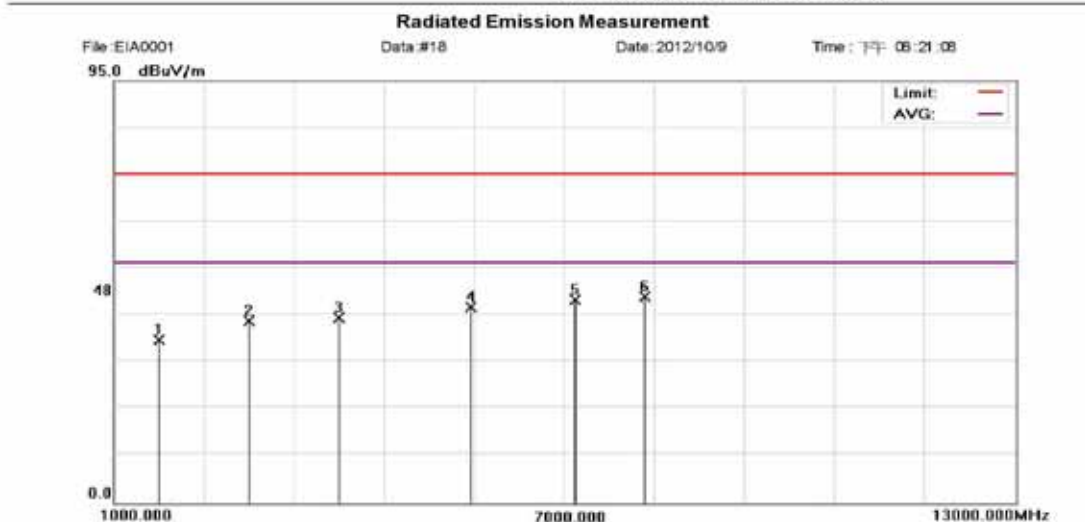
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**WIFI Mode-16G
Horizontal polarization**

臺灣檢驗科技股份有限公司-電子電訊實驗室
Address: 台北縣五股工業區五工路 134 號
Tel: 02-2299-3279 Fax: 02-2298-2698



Site : 966-2 Chamber Polarization: **Horizontal** Temperature: 25 °C
Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: From System Humidity: 60%
EUT: FlashAir Distance:
MN: THNSW016GAA-B
Mode: Wifi Link Mode
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1600.000	38.61	-1.90	36.71	74.00	-37.29	peak	
2		2800.000	38.06	2.90	40.96	74.00	-33.04	peak	
3		4000.000	36.62	5.12	41.74	74.00	-32.26	peak	
4		5752.000	36.28	7.81	44.09	74.00	-29.91	peak	
5		7144.000	36.38	9.38	45.76	74.00	-28.24	peak	
6	*	8080.000	36.18	10.35	46.53	74.00	-27.47	peak	

*:Maximum data x:Over limit !:over margin ●ReferenceOnly

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Page: 1

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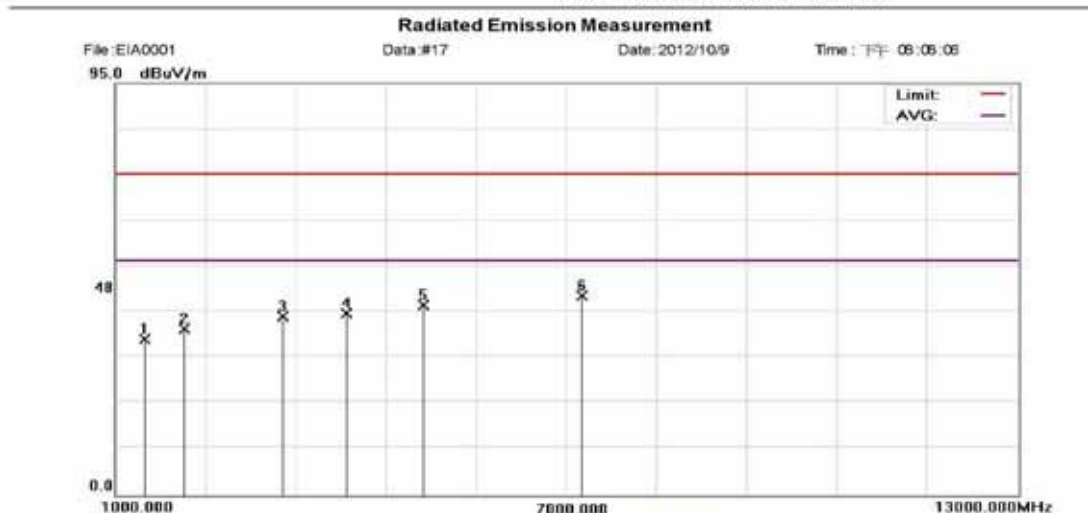
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Vertical polarization

臺灣檢驗科技股份有限公司 - 電子電訊實驗室
 Address : 台北縣五股工業區五工路 134 號
 Tel:02-2299-3279 Fax:02-2298-2698



Site : 966-2 Chamber Polarization: **Vertical** Temperature: 25 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: From System Humidity: 60%
 EUT: FlashAir Distance:
 MN: THNSW016GAA-B
 Mode: Wifi Link Mode
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1384.000	38.69	-2.71	35.98	74.00	-38.02	peak	
2		1912.000	37.87	0.37	38.24	74.00	-35.76	peak	
3		3232.000	37.52	3.72	41.24	74.00	-32.76	peak	
4		4072.000	36.82	5.21	42.03	74.00	-31.97	peak	
5		5104.000	37.01	6.88	43.89	74.00	-30.11	peak	
6	*	7216.000	36.67	9.39	46.06	74.00	-27.94	peak	

*:Maximum data x:Over limit !:over margin ●ReferenceOnly

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