Report No.: ER/2009/30030 Issue Date: Apr. 04, 2009

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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: RF610

Brand Name: N/A

Model Name: RF610, RF610z-xxx (z=A-Z; x=0-9,A-Z)

Model Difference: Different color of case and different logo

FCC ID: ULI-CYRFRX02

Report No.: ER/2009/30030

Issue Date: Apr. 04, 2009

FCC Rule Part: §15.249

Prepared for: FORMOSA21 Inc.

8F-6,No. 351, Chung Shan Rd., SEC. 2, Chung

Ho City, Taipei, Taiwan, R.O.C.

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial Zone,

Taipei County, Taiwan.





Testing Leboretory 0513

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VERIFICATION OF COMPLIANCE

Applicant: FORMOSA21 Inc.

8F-6,No. 351, Chung Shan Rd., SEC. 2, Chung Ho City,

Taipei, Taiwan, R.O.C.

Product Description: RF610

Brand Name: N/A

FCC ID: ULI-CYRFRX02

Model No.: RF610, RF610z-xxx ($z=A\sim Z$; $x=0\sim 9, A\sim Z$)

Model Difference: Different color of case and different logo

File Number: ER/2009/30030

Date of test: Mar. 24,2009 ~ Apr. 01, 2009

Date of EUT Received: Mar. 24, 2009

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd., Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.249.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Break Chang	Date:	Apr. 04, 2009	
	Brian Chang/Engineer			
Prepared By:	Alex Hsieh	Date:	Apr. 04, 2009	
_	Alex Hsieh / Sr. Engineer			
Approved By:	Timent Su	Date:	Apr. 04, 2009	
	Vincent Su / Manager			

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Version

Version No.	Date	Description
00	Apr. 04, 2009	Initial creation of document



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GENERAL INFORMATION

1.1 Product Description

FORMOSA21 Inc., Model: RF610, RF610z-xxx (z=A~Z; x=0~9,A~Z) (referred to as the EUT in this report) is a RF610.

A major technical descriptions of EUT is described as following:

A) Operation Frequency: 2402~2479MHz, 78 channels

B) Modulation Type: GFSK

C) Power Supply: 5V dc

D) Antenna Designation: Printed Antenna, 1.16dBi. Please see EUT photo for details.

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: ULI-CYRFRX02 filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.



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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the engineering operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.



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2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency	Conducted Limit (dBuV)				
(MHz)	Quasi-Peak	Average			
0.15 - 0.5	66 - 56	56 - 46			
0.5 - 5	56	46			
5 - 30	60	50			

(2) Radiated Emission 15.249(a)

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

Frequency	Field strength of	Field strength of	Distance (m)
(MHz)	Fundamental	Harmonics	
902 - 928	50 mV/m	500 uV/m	3
	(94dBuV/m)	(54dBuV/m)	
2400 – 2483.5	50 mV/m	500 uV/m	3
	(94dBuV/m)	(54dBuV/m)	
5725 – 5875	50 mV/m	500 uV/m	3
	(94dBuV/m)	(54dBuV/m)	
24.0 – 24.25 GHz	250 mV/m	2500 uV/m	3
	(107.95dBuV/m)	(67.95dBuV/m)	



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(3) Radiated Emission15.249 (d)

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209 as below, whichever is the lesser attenuation.

Frequency	Field strength	Distance (m)	Field strength at 3m
(MHz)	μV/m		dBμV/m
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

(4) Radiated Emission 15.249(e)

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak filed strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205
- 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of ξ 15.205, then the general radiated emission limits in ξ 15.209 apply.



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2.5 Configuration of Tested System

Fig. 2-1 Configuration of TX

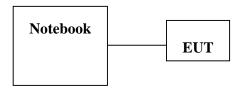


Fig. 2-2 Configuration of Conduction

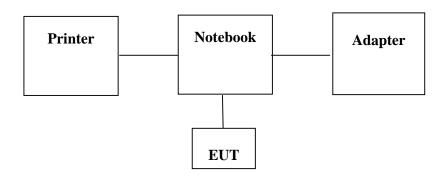


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
1.	Notebook	IBM	T43	L3LHHN6
2.	Printer	HP	DJ3820	CN34L181B1

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

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3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	N/A
§15.249(a)(e)	Radiated Emission	Compliant
§15.249(d)	26dB band width Measurement	Compliant

Description of test modes

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting mode is programmed.

Channel low (2402MHz), mid (2438MHz) and high (2479MHz) with highest data rate are chosen for full testing.



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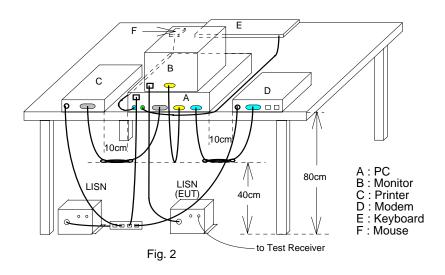
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4. Conducted Emissions Test

4.1 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

4.2 Test SET-UP (Block Diagram of Configuration)



4.3 Measurement Equipment Used:

	Conduc	ted Emission T	est Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009
LISN	Rolf-Heine	NNB-2/16Z	99012	02/17/2009	02/16/2010
LISN	FCC	FCC-LISN-50/250-25 -2-01	04034	02/17/2009	02/16/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009

4.4 Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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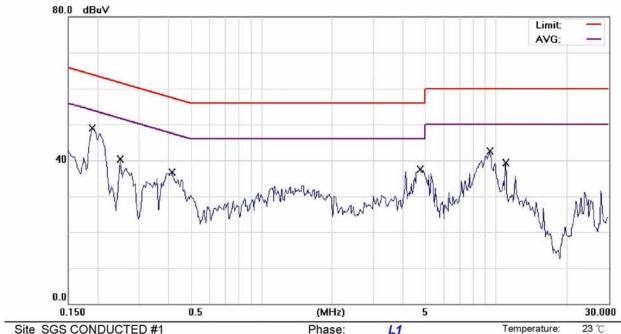
Humidity:

60 %

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation Mode			Test Date:	Mar. 30, 2009
Temperature:	23	Humidity:	60 %	Test By:	Brian



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: RF610 M/N: RF610 Note: Operation

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1900	48.70	0.13	48.83	64.04	-15.21	QP	
2		0.2500	40.18	0.11	40.29	61.76	-21.47	QP	
3		0.4150	36.66	0.08	36.74	57.55	-20.81	QP	
4		4.7500	37.44	0.16	37.60	56.00	-18.40	QP	
5		9.4400	42.18	0.39	42.57	60.00	-17.43	QP	
6		11.0211	38.83	0.42	39.25	60.00	-20.75	QP	

Power:

From System

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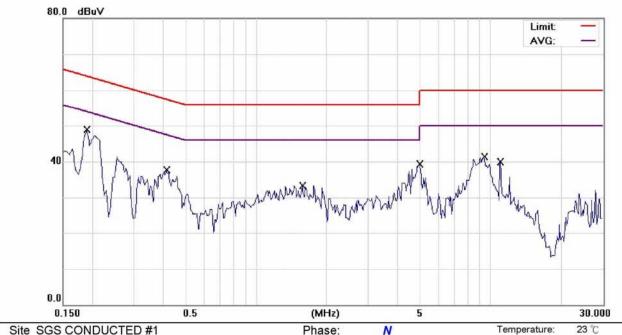


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Humidity:

60 %

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Power:

From System

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: RF610 M/N: RF610 Note: Operation

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV dB E	dBuV	Detector	Comment
1	*	0.1900	48.78	0.15	48.93	64.04	-15.11	QP	
2		0.4150	37.56	0.11	37.67	57.55	-19.88	QP	
3		1.5800	33.21	0.14	33.35	56.00	-22.65	QP	
4		5.0000	39.19	0.18	39.37	56.00	-16.63	QP	
5		9.4400	40.87	0.41	41.28	60.00	-18.72	QP	
6		11.0200	39.39	0.44	39.83	60.00	-20.17	QP	

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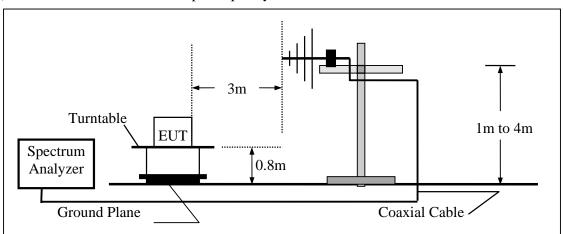
5. Radiated Emission Test

5.1 Measurement Procedure

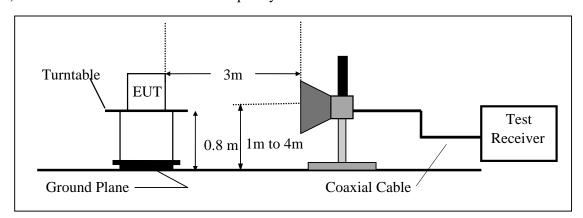
- 1. The EUT was placed on a turntable that is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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5.3 Measurement Equipment Used:

	966 Chamber										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.						
TYPE		NUMBER	NUMBER	CAL.							
Spectrum Analyzer	R&S	FSP 40	100034	02/21/2009	02/20/2010						
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009						
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-320	03/13/2009	03/12/2010						
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009						
Pre-Amplifier	Agilent	8449B	3008A01973	01/04/2009	01/03/2010						
Turn Table	HD	DT420	N/A	N.C.R	N.C.R						
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R						
Controller	HD	HD100	N/A	N.C.R	N.C.R						
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/04/2009	01/03/2010						
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/04/2009	01/03/2010						

5.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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SGS Taiwan Ltd.



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5.5 Measurement Result

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH Low Test Date Apr. 01, 2009

Fundamental Frequency 2402MHz Test By Brian
Temperature 25 °C Pol Ver./Hor

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
96.93	V	Peak	51.91	-17.16	34.75	43.50	-8.75
119.24	V	Peak	51.83	-15.32	36.51	43.50	-6.99
284.14	V	Peak	41.92	-13.28	28.64	46.00	-17.36
698.33	V	Peak	34.24	-5.06	29.18	46.00	-16.82
798.24	V	Peak	36.98	-3.08	33.90	46.00	-12.10
919.49	V	Peak	32.09	-1.04	31.05	46.00	-14.95
96.93	Н	Peak	56.27	-17.16	39.11	43.50	-4.39
119.24	Н	Peak	48.18	-15.32	32.86	43.50	-10.64
143.49	Н	Peak	44.44	-13.42	31.02	43.50	-12.48
276.38	Н	Peak	40.86	-13.48	27.38	46.00	-18.62
798.24	Н	Peak	34.72	-3.08	31.64	46.00	-14.36
919.49	Н	Peak	36.47	-1.04	35.43	46.00	-10.57

- (1) No further spurious emissions detected from the lowest internal frequency and 30MHz.
- (2) Measuring frequencies from the lowest internal frequency to the 1GHz_o
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- (4) Datas of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH Mid Test Date Apr. 01, 2009

Fundamental Frequency 2438MHz Test By Brian **Temperature** 25 °C Pol Ver./Hor

65 % Humidity

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
96.93	V	Peak	51.88	-17.62	34.26	43.50	-9.24
119.24	V	Peak	52.13	-15.32	36.81	43.50	-6.69
196.84	V	Peak	44.52	-15.51	29.01	43.50	-14.49
276.38	V	Peak	42.50	-13.48	29.02	46.00	-16.98
798.24	V	Peak	36.98	-3.08	33.90	46.00	-12.10
919.49	V	Peak	33.46	-1.04	32.42	46.00	-13.58
99.84	Н	Peak	54.94	-17.16	37.78	43.50	-5.72
119.24	Н	Peak	47.80	-15.32	32.48	43.50	-11.02
196.84	Н	Peak	44.77	-15.51	29.26	43.50	-14.24
266.68	Н	Peak	43.09	-13.31	29.78	46.00	-16.22
798.24	Н	Peak	36.05	-3.08	32.97	46.00	-13.03
919.49	Н	Peak	32.39	-1.04	31.35	46.00	-14.65

Remark:

- (1) No further spurious emissions detected from the lowest internal frequency and 30MHz.
- (2) Measuring frequencies from the lowest internal frequency to the 1GHz_o
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- (4) Datas of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH High Test Date Apr. 01, 2009

Fundamental Frequency 2479MHz Test By Brian
Temperature 25 °C Pol Ver./Hor

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
96.93	V	Peak	52.08	-17.16	34.92	43.50	-8.58
119.24	V	Peak	51.86	-15.32	36.54	43.50	-6.96
196.84	V	Peak	43.47	-15.51	27.96	43.50	-15.54
798.24	V	Peak	36.73	-15.51	21.22	46.00	-24.78
935.98	V	Peak	31.55	-13.31	18.24	46.00	-27.76
96.93	Н	Peak	54.93	-17.16	37.77	43.50	-5.73
119.24	Н	Peak	47.46	-15.32	32.14	43.50	-11.36
698.33	Н	Peak	34.27	-15.51	18.76	46.00	-27.24
798.24	Н	Peak	35.63	-5.06	30.57	46.00	-15.43
919.49	Н	Peak	32.20	-1.04	31.16	46.00	-14.84

Remark:

- (1) No further spurious emissions detected from the lowest internal frequency and 30MHz.
- (2) Measuring frequencies from the lowest internal frequency to the 1GHz_o
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH Low Test Date: Apr. 01, 2009

Fundamental Frequency: 2402MHz

Test By: Brian

Temperature: 25 °C

Pol: Vertical

Humidity: 65 %

		Peak	AV		Actual Peak	Actual	Peak Limit	AV Limit		
Freq.	Ant.Pol.	Reading	Reading	Factor	FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
2402.0	V	83.61		-1.36	82.25		114.00	94.00	-11.75	F
4804.0	V						74.00	54.00		Н
7206.0	V						74.00	54.00		Н
9608.0	V						74.00	54.00		Н
12010.0	V						74.00	54.00		Н
14412.0	V						74.00	54.00		Н
16814.0	V						74.00	54.00		Н
19216.0	V						74.00	54.00		Н
21618.0	V						74.00	54.00		Н
24020.0	V						74.00	54.00		Н

Remark:

- (1) Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency,
- (2) Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB
- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode if bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH Low Test Date: Apr. 01, 2009

Fundamental Frequency: 2402MHz

Test By: Brian

Temperature: 25 °C

Pol: Horizontal

Humidity: 65 %

							Peak			
		Peak	AV		Actual	Actual	Limit	AV Limit		
Freq.	Ant.Pol.	Reading	Reading	Factor	Peak FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
2402.0	Н	92.19		-1.36	90.83		114.00	94.00	-3.17	F
4804.0	Н	36.29		5.99	42.28		74.00	54.00	-11.72	Н
7206.0	Н						74.00	54.00		Н
9608.0	Н						74.00	54.00		Н
12010.0	Н						74.00	54.00		Н
14412.0	Н						74.00	54.00		Н
16814.0	Н						74.00	54.00		Н
19216.0	Н						74.00	54.00		Н
21618.0	Н						74.00	54.00		Н
24020.0	Н						74.00	54.00		Н

Remark:

- (1) Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency_o
- (2) Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB
- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode if bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH Mid Test Date: Apr. 01, 2009

Fundamental Frequency: 2438MHz Test By: Brian Temperature: 25 °C Pol: Vertical

65 % Humidity:

		Peak	\mathbf{AV}		Actual Peak	Actual	Peak Limit	AV Limit		
Freq.	Ant.Pol.	Reading	Reading	Factor	FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
2438.0	V	84.99		-1.13	83.86		114.00	94.00	-10.14	F
4876.0	V						74.00	54.00		Н
7314.0	V						74.00	54.00		Н
9752.0	V						74.00	54.00		Н
12190.0	V						74.00	54.00		Н
14628.0	V						74.00	54.00		Н
17066.0	V						74.00	54.00		Н
19504.0	V						74.00	54.00		Н
21942.0	V						74.00	54.00		Н
24380.0	V						74.00	54.00		Н

Remark:

- Measuring frequencies from the lowest internal frequency to the 10th of fundamental (1) frequency.
- Field strength limits for frequency above 1000MHz are based on average limits. However, (2) Peak mode field strength shall not exceed the average limits specified plus 20dB
- "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious
- Datas of measurement within this frequency range shown " " in the table above means the **(4)** reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Spectrum Peak mode IF bandwidth Setting: 1GHz-26GHz, RBW= 1MHz, Sweep time= 200 (5) ms., the VBW setting was 3 MHz.
- Spectrum AV mode if bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, (6) Sweep time= 200 ms.

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台灣檢驗科技股份有限公司



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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH Mid Test Date: Apr. 01, 2009

Fundamental Frequency: 2438MHz

Test By: Brian

Temperature: 25 °C

Pol: Horizontal

Humidity: 65 %

		Peak	\mathbf{AV}		Actual Peak	Actual	Peak Limit	AV Limit		
Freq.	Ant.Pol.	Reading	Reading	Factor	FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
2438.0	H	91.51		-1.13	90.38		114.00	94.00	-3.62	F
4876.0	Н						74.00	54.00		Н
7314.0	Н						74.00	54.00		Н
9752.0	Н						74.00	54.00		Н
12190.0	Н						74.00	54.00		Н
14628.0	Н						74.00	54.00		Н
17066.0	Н						74.00	54.00		Н
19504.0	Н						74.00	54.00		Н
21942.0	Н						74.00	54.00		Н
24380.0	Н						74.00	54.00		Н

Remark:

- (1) Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency_o
- (2) Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB
- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode if bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH High Test Date: Apr. 01, 2009

Fundamental Frequency: 2479MHz

Test By: Brian

Temperature: 25 °C

Pol: Vertical

Humidity: 65 %

		Peak	\mathbf{AV}		Actual Peak	Actual	Peak Limit	AV Limit		
Freq.	Ant.Pol.	Reading	Reading	Factor	FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
2479.0	V	86.61		-0.92	85.69		114.00	94.00	-8.31	F
4958.0	V						74.00	54.00		Н
7437.0	V						74.00	54.00		Н
9916.0	V						74.00	54.00		Н
12395.0	V						74.00	54.00		Н
14874.0	V						74.00	54.00		Н
17353.0	V						74.00	54.00		Н
19832.0	V						74.00	54.00		Н
22311.0	V						74.00	54.00		Н
24790.0	V						74.00	54.00		Н

Remark:

- (1) Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency_o
- (2) Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB
- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode if bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH High Test Date: Apr. 01, 2009

Fundamental Frequency: 2479MHz

Test By: Brian

Temperature: 25 °C

Pol: Horizontal

Humidity: 65 %

		Peak	\mathbf{AV}		Actual Peak	Actual	Peak Limit	AV Limit		
Freq.	Ant.Pol.	Reading	Reading	Factor	FS	AV FS	at 3m	at 3m	Margin	
(MHz)	H/V	(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
2479.0	Н	92.04		-0.92	91.12		114.00	94.00	-2.88	F
4958.0	Н						74.00	54.00		Н
7437.0	Н						74.00	54.00		Н
9916.0	Н						74.00	54.00		Н
12395.0	Н						74.00	54.00		Н
14874.0	Н						74.00	54.00		Н
17353.0	Н						74.00	54.00		Н
19832.0	Н						74.00	54.00		Н
22311.0	Н						74.00	54.00		Н
24790.0	Н						74.00	54.00		Н

Remark:

- (1) Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency_o
- (2) Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB
- (3) "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- (4) Datas of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) Spectrum Peak mode IF bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- (6) Spectrum AV mode if bandwidth Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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6. 26 dB Band Width Measurement

6.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set ETU normal operating mode.
- 3. Set SPA Center Frequency = fundamental frequency, RBW = 100kHz, VBW = 100kHz, Span = 5MHz.
- 4. Set SPA Max hold. Mark peak, -26dB.

6.2 Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

6.3 Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

6.4 Measurement Results:

2402 Channel = 1.318MHz

2438 Channel = 1.356 MHz

2479 Channel = 1.658 MHz

Refer to attached data chart.



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26dB Band Width test Plot (2402 MHz)



26dB Band Width test Plot (2438 MHz)



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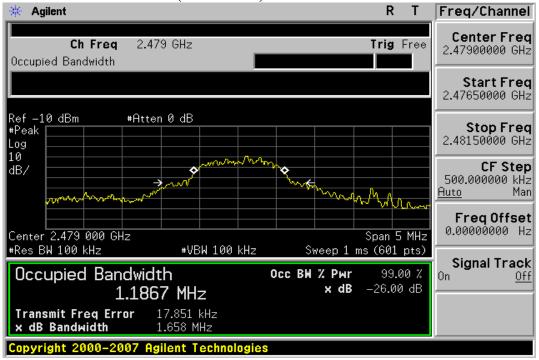
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26dB Band Width test Plot (2479 MHz)



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