

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT CLASS II PERMISSIVE CHANGE

OF

Product Name: Pulse 180

Brand Name: Plantronics

Model Name: PLT-Pulse 180, PLT-Pulse 180h

Model Different: See Class II Change letter

FCC ID: AL8-PBT180

Report No.: EF/2005/90026-04

Issue Date: Feb. 08, 2007

FCC Rule Part: §15.247

Prepared for: Plantronics INC
345 Encinal Street /Santa Cruz, CA 95060
USA

Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Plantronics INC
 345 Encinal Street /Santa Cruz, CA 95060 USA

Equipment Under Test: Pulse 180

Brand Name: Plantronics

FCC ID Number: AL8-PBT180

Model No.: PLT-Pulse 180, PLT-Pulse 180h

Model Difference: See Class II Change letter

File Number: EF/2005/90026-04

Date of test: Jan. 31, 2007 ~ Feb. 07, 2007

Date of EUT Received: Jan. 31, 2007

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. 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 15.247

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

Test By:	<i>(original signature)</i>	Date	Feb. 08, 2007
<i>Jazz Huang / Engineer</i>			
Prepared By:	<i>(original signature)</i>	Date	Feb. 08, 2007
<i>Eva Kao / Sr. Engineer</i>			
Approved By:	<i>(original signature)</i>	Date	Feb. 08, 2007
<i>Vincent Su / Manager</i>			

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Version

Version No.	Date
00	Feb. 08, 2007

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1. GENERAL INFORMATION

1.1. Product Description

The Plantronics INC, Model: PLT-Pulse 180, PLT-Pulse 180h (referred to as the EUT in this report) The EUT is a stereo receiver

The EUT is compliance with Bluetooth Standard.

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 2402 – 2480MHz, 79 channels
- B). Rated output power: 2.06dBm
- C). Modulation type: Frequency Hopping Spread Spectrum (FHSS)
- D). Antenna Designation: Chip Antenna, 2 dBi, Non-User Replaceable (Fixed)
- E). Power Supply : 3.7Vdc re-chargeable battery; 5V from AC/DC power adaptor,
Model: OH-35078DT or from USB port of PC

1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **AL8-PBT180** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rule. The composite system (Digital device) is compliance with Subpart B is authorized under a Doc procedure.

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 open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by CNLA (0513).

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

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 EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency that 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.

2.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Radiated Emission)

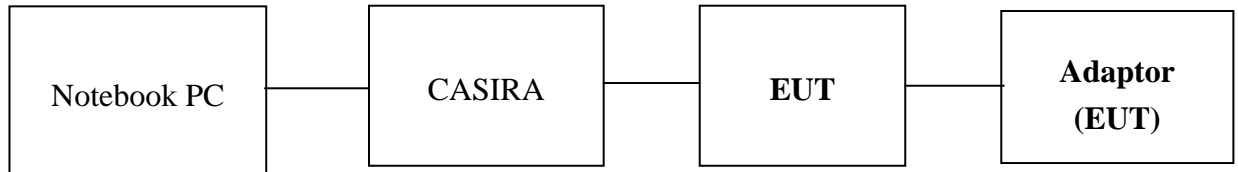


Fig. 2-2 Configuration of Tested System (AC Power Line Conducted Emission)

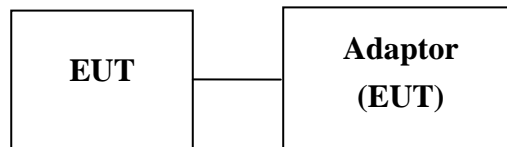


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.	Data Cable	Power Cord
1.	Notebook	IBM	T40	N/A	99HCYF4	N/A	Un-shielding
2.	CASIRA	CSR	BCES301199/1	N/A	7383070403	N/A	Un-shielding

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§ 15.207(a)	AC Conducted Emission	Compliant
§ 15.247(b)(1)	Peak Output Power	Compliant
§ 15.247(a)	20dB Bandwidth	N/A
§ 15.247(c)	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§ 15.209(a) (f)	Radiated Spurious Emission	Compliant
§ 15.247(a)(1)	Frequency Separation	N/A
§ 15.247(a)(1)(iii)	Number of hopping frequency	N/A
§ 15.247(a)(1)(iii)	Time of Occupancy	N/A
§ 15.247	Peak Power Density	N/A
§ 15.203, § 15.247(b)(4)(i)	Antenna Requirement	N/A

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

Channel low (2402MHz) 、 mid (2441MHz) and high (2480MHz) with highest data rate are chosen for Peak Output Power, 100 KHz Bandwidth Of Frequency Band Edges, Radiated Spurious Emission and AC Conducted Emission testing.

The EUT was placed on a 5 mm high non-metal supporter which was on the wooden table.

5. CONDUCTED EMISSION TEST

5.1. Standard Applicable

According to §15.207, frequency within 150KHz to 30MHz shall not exceed the limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	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 MHz to 0.50 MHz.

5.2. EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was plug-in the AC/DC Power adapter. The host system was placed on the center of the back edge on the test table. The peripherals was placed on the side of the host PC system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The spacing between the peripherals was 10 centimeters.
4. External I/O cables were draped along the edge of the test table and bundle when necessary.
5. The host system was connected with 110Vac/60Hz power source.

5.3. 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.

5.4. Measurement Equipment Used:

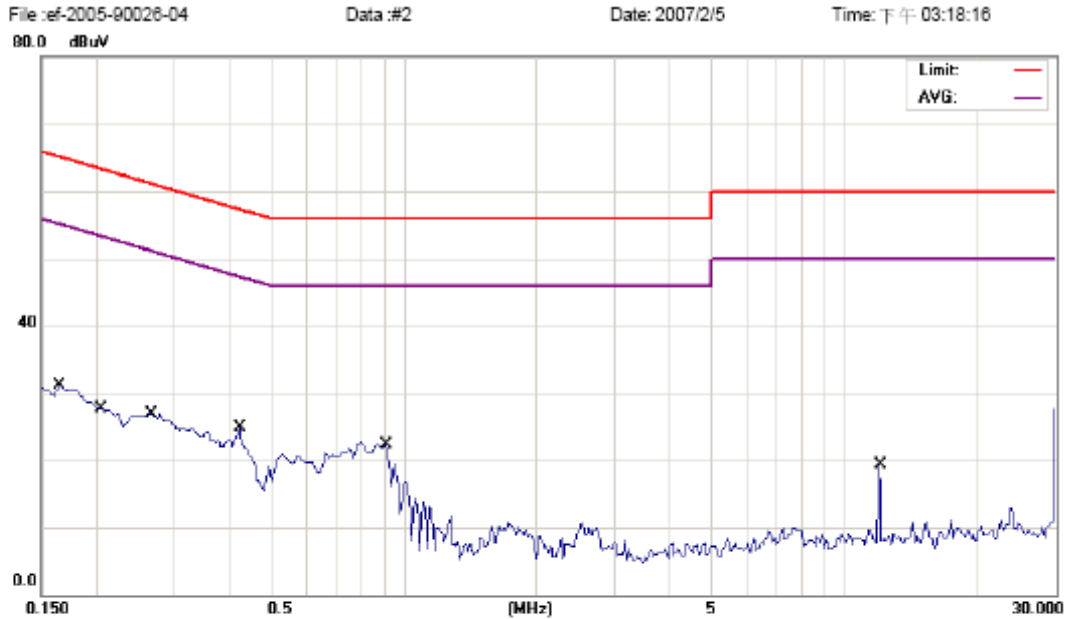
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	09/02/2006	09/03/2007
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2006	06/10/2007
Transient Limiter	HP	11947A	3107A02062	09/02/2006	09/03/2007
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2006	12/30/2007
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2006	12/23/2007
Coaxial Cables	N/A	No. 3, 4	N/A	12/01/2006	12/01/2007

5.5. 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-peaks.

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Charger Mode			Test Date:	Feb. 05, 2007
Temperature:	24	Humidity:	56 %	Test By:	Jazz

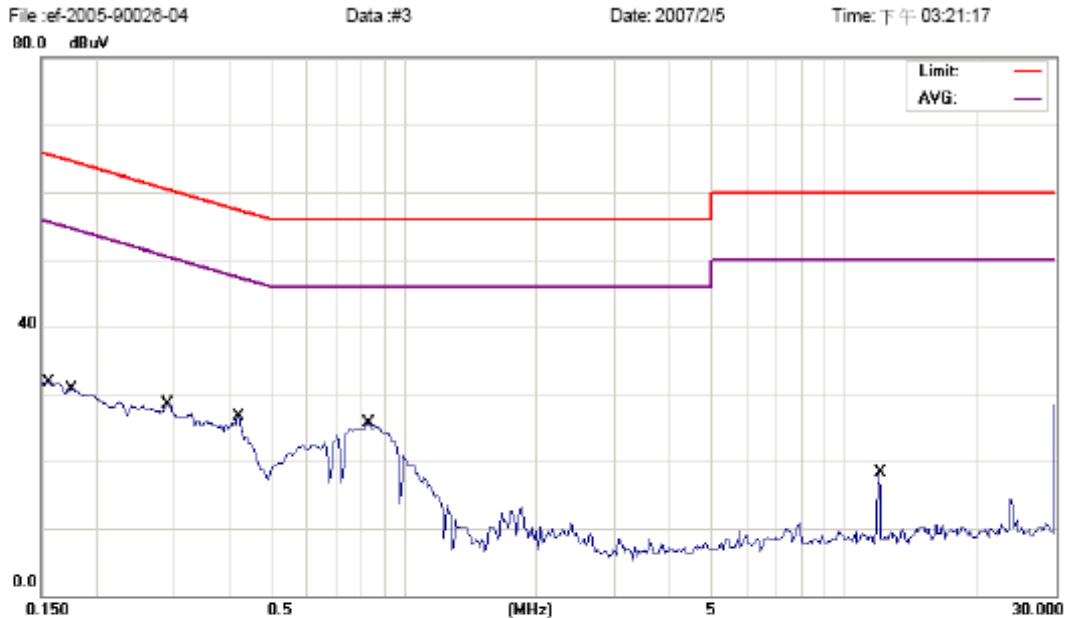


File :ef-2005-90026-04 Data :#2 Date: 2007/2/5 Time: 下午 03:18:16

Site SGS CONDUCTED #1 Phase: **L1** Temperature: 25 °C
 Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 62 %
 EUT: pulse180 Distance: Air Pressure: hpa
 M/N: pit-pulse180,bt-13
 Note: operation mode

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	30.72	0.47	31.19	65.21	-34.02	QP	
2		0.2072	27.14	0.52	27.66	63.32	-35.66	QP	
3		0.2650	26.43	0.55	26.98	61.27	-34.29	QP	
4	*	0.4250	24.26	0.63	24.89	57.35	-32.46	QP	
5		0.9050	21.53	0.78	22.31	56.00	-33.69	QP	
6		12.0000	18.18	1.15	19.33	60.00	-40.67	QP	

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Site SGS CONDUCTED #1 Phase: **N** Temperature: 25 °C
 Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 62 %
 EUT: pulse180 Distance: Air Pressure: hpa
 M/N: plt-pulse180,bt-13
 Note: operation mode

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1550	31.25	0.46	31.71	65.73	-34.02	QP	
2		0.1758	30.20	0.49	30.69	64.68	-33.99	QP	
3		0.2900	28.02	0.56	28.58	60.52	-31.94	QP	
4		0.4200	25.99	0.63	26.62	57.45	-30.83	QP	
5	*	0.8300	24.89	0.76	25.65	56.00	-30.35	QP	
6		12.0000	17.08	1.25	18.33	60.00	-41.67	QP	

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6. PEAK OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850MHz band: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: 0.125 Watts.

6.2. Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Channel power function, RBW, VBW = 1MHz)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

6.3. Measurement Result

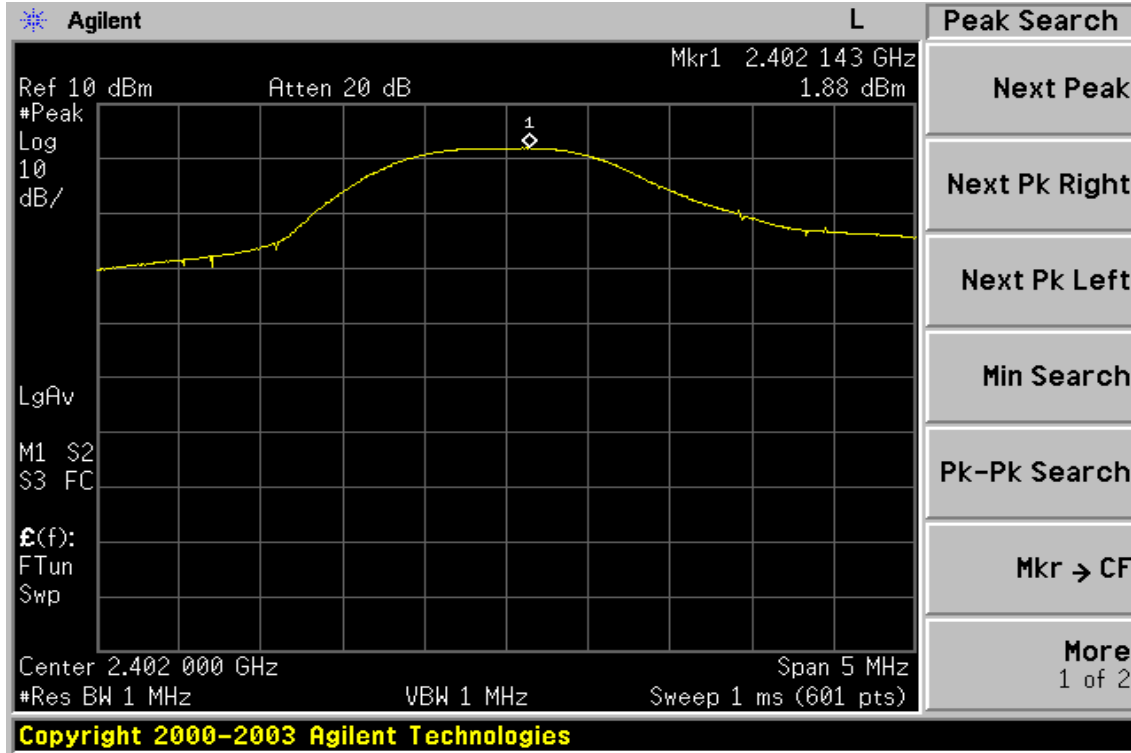
Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	1.88	0.20	2.08	0.00161	1
2441.00	0.84	0.20	1.04	0.00127	1
2480.00	-0.87	0.20	-0.67	0.00086	1

6.4. Measurement Equipment Used:

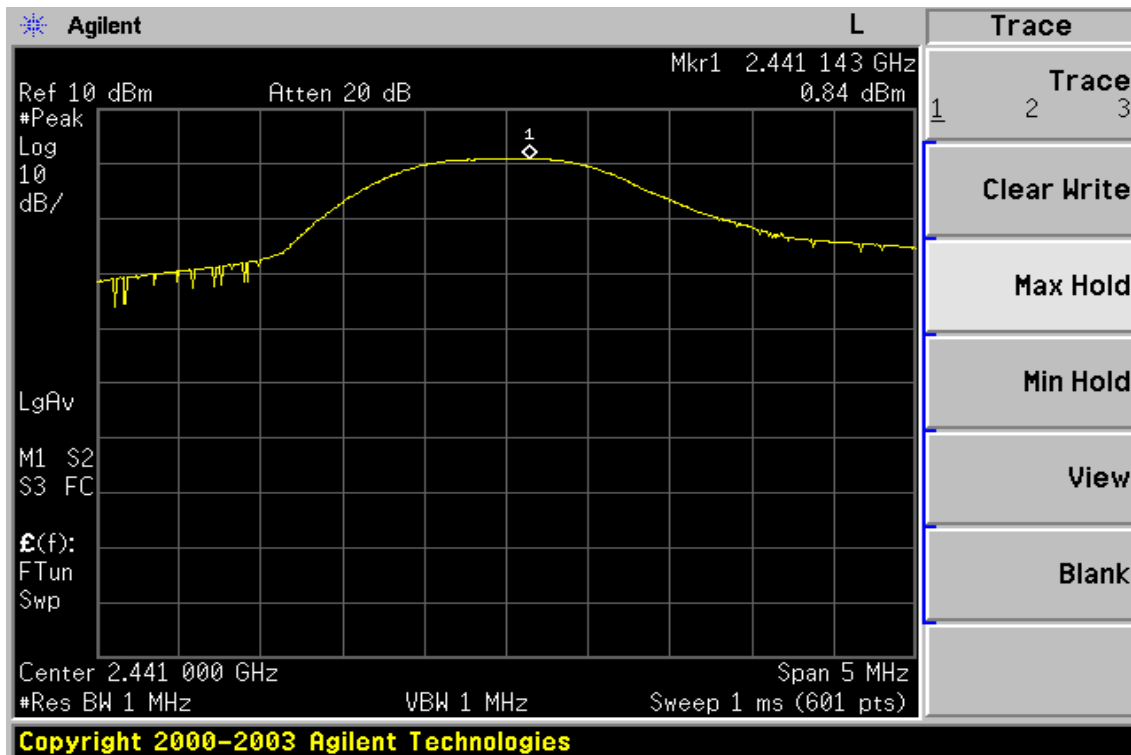
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2006	10/06/2007

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Peak Power Output Data Plot (CH Low)

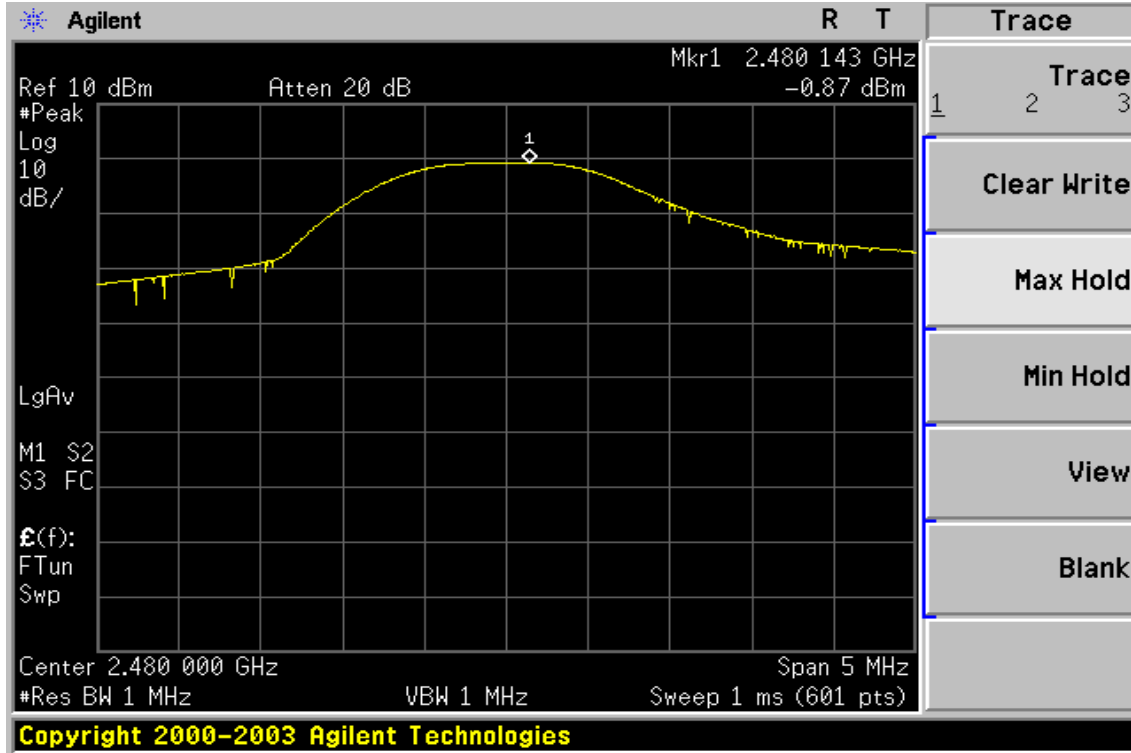


Peak Power Output Data Plot (CH Mid)



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Peak Power Output Data Plot (CH High)



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7. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

7.1. Standard Applicable

According to §15.247(c), in any 100 KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

7.2. Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span=25MHz, Sweep = auto
5. Mark Peak, 2.390GHz and 2.488GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.
7. Radiated Emission refer to section 9.

7.3. Measurement Result

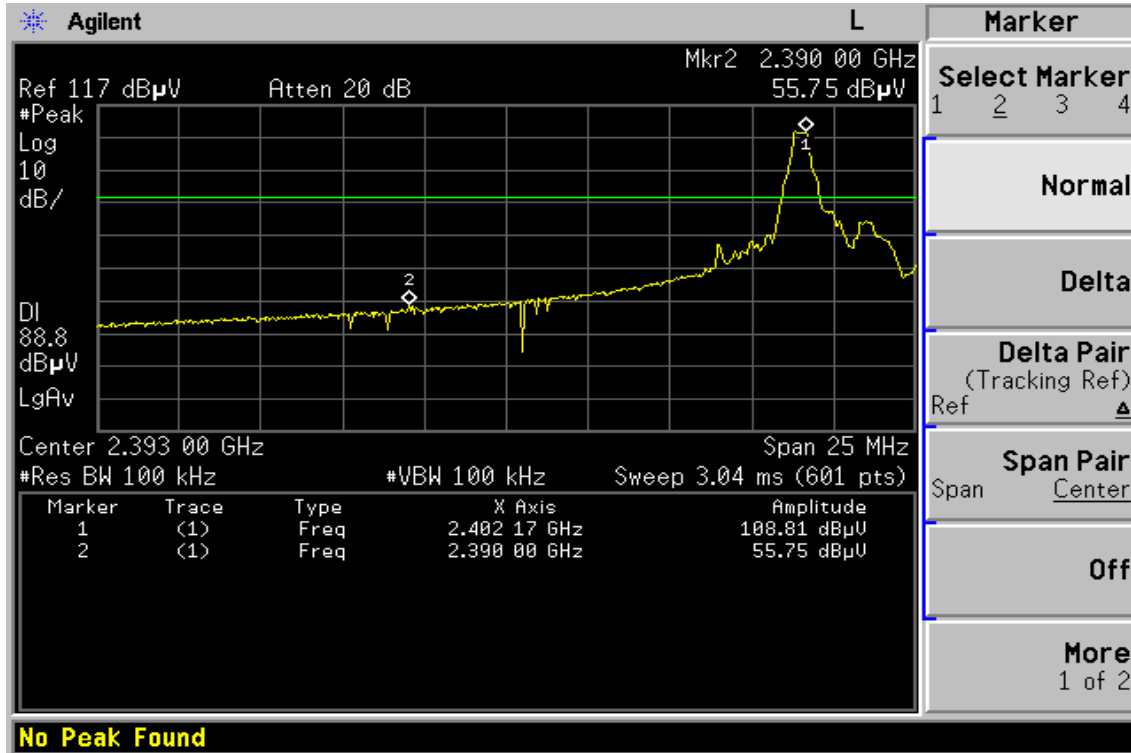
Refer to attach spectrum analyzer data chart.

7.4. Measurement Equipment Used:

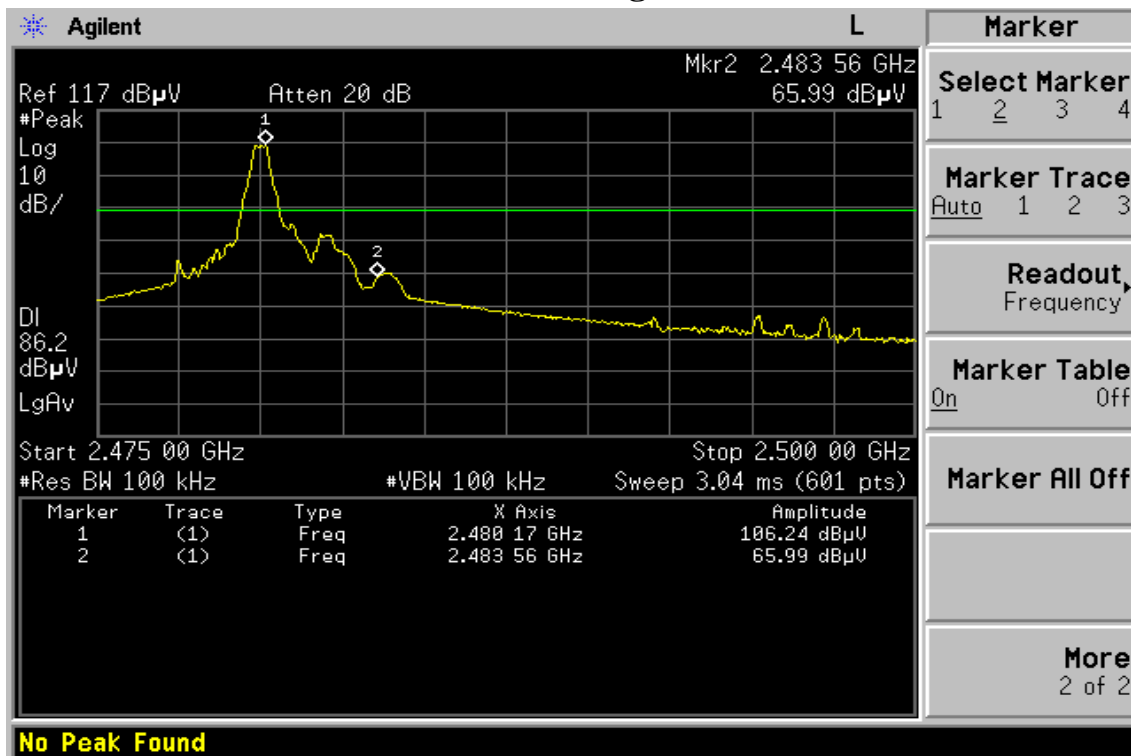
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2006	10/06/2007

Note: Measurement Equipment for radiated emission refers to section 9.

Conducted Emission: Test Data CH-Low



Conducted Emission: Test Data CH-High



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Radiated Emission:

Operation Mode	TX CH Low	Test Date	Feb. 08, 2007
Fundamental Frequency	2402 MHz	Test By	Jazz
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.0	36.52	----	-1.39	35.13	----	74.00	54.00	-18.87	Peak

Operation Mode	TX CH Low	Test Date	Feb. 08, 2007
Fundamental Frequency	2402 MHz	Test By	Jazz
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.0	40.27	----	-1.39	38.88	----	74.00	54.00	-15.12	Peak

Remark :

- (1) 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.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Emission:

Operation Mode	TX CH High	Test Date	Feb. 08, 2007
Fundamental Frequency	2480 MHz	Test By	Jazz
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.6	47.84	----	-0.92	46.92	----	74.00	54.00	-7.08	Peak

Operation Mode	TX CH High	Test Date	Feb. 08, 2007
Fundamental Frequency	2480 MHz	Test By	Jazz
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.6	47.98	----	-0.92	47.06	----	74.00	54.00	-6.94	Peak

Remark :

- (1) 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.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

8. SPURIOUS RADIATED EMISSION TEST

8.1. Standard Applicable

According to §15.247(c), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

8.2. EUT Setup

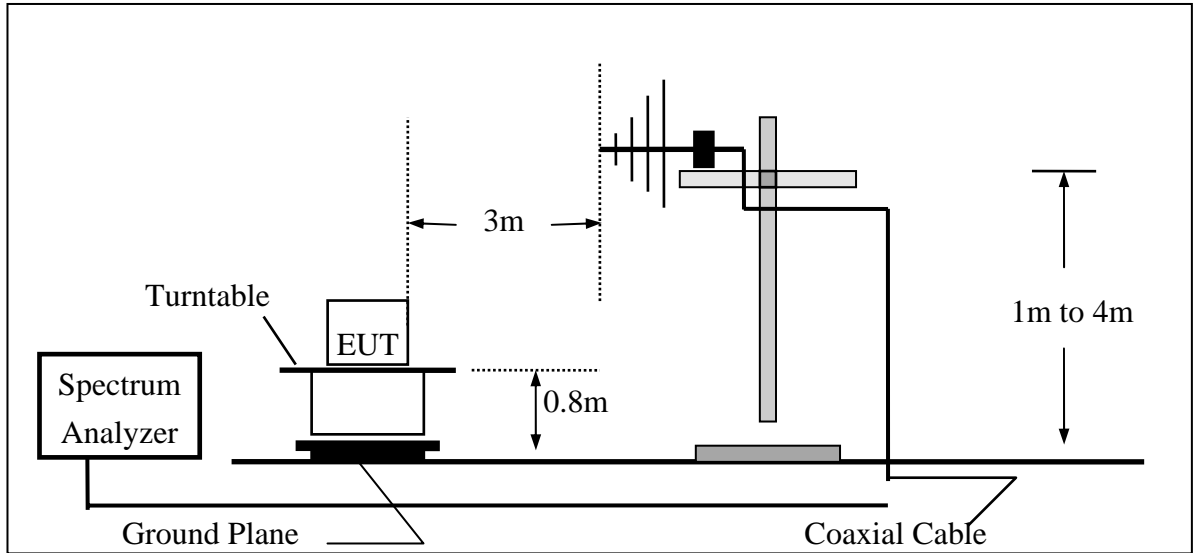
1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was put in the front of the test table. The peripherals was placed on the side of the host system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The spacing between the peripherals was 10 centimeters.
4. External I/O cables were draped along the edge of the test table and bundle when necessary.
5. The host PC system was connected with 110Vac/60Hz power source.

8.3. Measurement Procedure

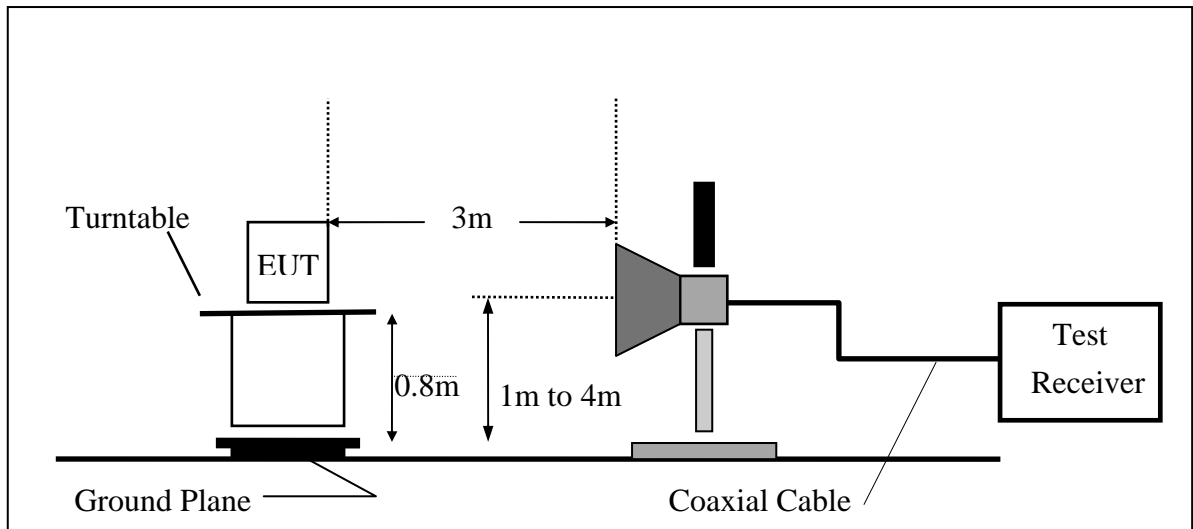
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

8.4. 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



8.5. Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	01/15/2007	01/14/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	06/29/2006	06/28/2007
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/26/2006	06/25/2007
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	12/14/2006	12/13/2007
Horn antenna	Schwarzbeck	BBHA 9170	184/185	12/13/2006	12/12/2007
Pre-Amplifier	HP	8447D	2944A09469	12/01/2006	11/31/2007
Pre-Amplifier	HP	8494B	3008A00578	5/15/2006	5/14/2008
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	01/05/2007	01/04/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2007	01/04/2008
Site NSA	SGS	966 chamber	N/A	10/02/2006	10/01/2007

8.6. 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	

8.7. Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH Low	Test Date	Feb. 06, 2007
Fundamental Frequency	2402MHz	Test By	Jazz
Temperature	25	Pol	Ver./Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
36.79	V	Peak	48.80	-14.36	34.44	40.00	-5.56
101.78	V	Peak	46.13	-16.87	29.26	43.50	-14.24
434.49	V	Peak	38.32	-9.01	29.31	46.00	-16.69
42.61	H	Peak	42.58	-13.77	28.81	40.00	-11.19
434.49	H	Peak	39.60	-9.01	30.59	46.00	-15.41
623.64	H	Peak	40.67	-5.51	35.16	46.00	-10.84
749.74	H	Peak	39.05	-4.30	34.75	46.00	-11.25

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) 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.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH Mid	Test Date	Feb. 06, 2007
Fundamental Frequency	2441MHz	Test By	Jazz
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
36.79	V	Peak	48.80	-14.36	34.44	40.00	-5.56
101.78	V	Peak	46.13	-16.87	29.26	43.50	-14.24
434.49	V	Peak	38.32	-9.01	29.31	46.00	-16.69
42.61	H	Peak	42.58	-13.77	28.81	40.00	-11.19
434.49	H	Peak	39.60	-9.01	30.59	46.00	-15.41
623.64	H	Peak	40.67	-5.51	35.16	46.00	-10.84
749.74	H	Peak	39.05	-4.30	34.75	46.00	-11.25

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) 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.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH High	Test Date	Feb. 06, 2007
Fundamental Frequency	2480MHz	Test By	Jazz
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
36.79	V	Peak	47.46	-14.36	33.10	40.00	-6.90
101.78	V	Peak	49.19	-16.87	32.32	43.50	-11.18
434.49	V	Peak	37.15	-9.01	28.14	46.00	-17.86
41.64	H	Peak	42.73	-13.76	28.97	40.00	-11.03
434.49	H	Peak	39.16	-9.01	30.15	46.00	-15.85
623.64	H	Peak	40.56	-5.51	35.05	46.00	-10.95
749.74	H	Peak	36.67	-4.30	32.37	46.00	-13.63

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) 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.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	Feb. 06, 2007
Fundamental Frequency	2402 MHz	Test By	Jazz
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Mark (P/AV)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1188.5	44.74	--	-8.65	36.09	--	74.00	54.00	-17.91	P
5998.5	39.87	--	5.69	45.56	--	74.00	54.00	-8.44	P
4804.0	----								
7206.0	----								
9608.0	----								
12010.0	----								
14412.0	----								
16814.0	----								
19216.0	----								
21618.0	----								
24020.0	----								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) 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.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV 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	Feb. 06, 2007
Fundamental Frequency	2402 MHz	Test By	Jazz
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Mark (P/AV)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1188.5	49.35	--	-8.65	40.70	--	74.00	54.00	-13.30	P
5998.5	38.59	--	5.69	44.28	--	74.00	54.00	-9.72	P
4804.0	----								
7206.0	----								
9608.0	----								
12010.0	----								
14412.0	----								
16814.0	----								
19216.0	----								
21618.0	----								
24020.0	----								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) 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.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV 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	Feb. 06, 2007
Fundamental Frequency	2441 MHz	Test By	Jazz
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Mark (P/AV)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1045.5	42.98	--	-9.25	33.73	--	74.00	54.00	-20.27	P
1188.5	43.27	--	-8.65	34.62	--	74.00	54.00	-19.38	P
4882.0	----								
7323.0	----								
9764.0	----								
12205.0	----								
14646.0	----								
17087.0	----								
19528.0	----								
21969.0	----								
24410.0	----								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) 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.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV 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	Feb. 06, 2007
Fundamental Frequency	2441 MHz	Test By	Jazz
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Mark (P/AV)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1045.5	41.59	--	-9.25	32.34	--	74.00	54.00	-21.66	P
1221.0	45.38	--	-8.44	36.94	--	74.00	54.00	-17.06	P
4882.0	----								
7323.0	----								
9764.0	----								
12205.0	----								
14646.0	----								
17087.0	----								
19528.0	----								
21969.0	----								
24410.0	----								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) 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.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV 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	Feb. 06, 2007
Fundamental Frequency	2480 MHz	Test By	Jazz
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Mark (P/AV)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1188.5	43.58	--	-8.65	34.93	--	74.00	54.00	-19.07	P
4960.0	----								
7440.0	----								
9920.0	----								
12400.0	----								
14880.0	----								
17360.0	----								
19840.0	----								
22320.0	----								
24800.0	----								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) 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.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	Feb. 06, 2007
Fundamental Frequency	2480 MHz	Test By	Jazz
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Mark (P/AV)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1045.5	43.69	--	-9.25	34.44	--	74.00	54.00	-19.56	P
1240.5	47.21	--	-8.42	38.79	--	74.00	54.00	-15.21	P
4960.0	----								
7440.0	----								
9920.0	----								
12400.0	----								
14880.0	----								
17360.0	----								
19840.0	----								
22320.0	----								
24800.0	----								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) 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.
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- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
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