

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: BlueSPEAK II

Brand Name: i.Tech

Model Name: C51-A06019-XX (x = 0-9, A-Z, a-z or blank)

Model Differences: No constructional difference. Difference in logo /
silkscreen, color, type of packing and user manual

FCC ID: RKIC51-A05035-XX

Report No.: EF/2006/70002

Issue Date: Jul. 05, 2006

FCC Rule Part: §15.247

Prepared for i.Tech Dynamic Limited
5/F, Harbourfront Landmark, 11 Wan Hoi
Street, Hunghom, Kowloon, Hong Kong

Prepared by SGS Taiwan Ltd.
No. 134, Wu Kung Rd., Wuku Industrial
Zone, Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: i.Tech Dynamic Limited
5/F, Harbourfront Landmark, 11 Wan Hoi Street, Hunghom, Kowloon,
Hong Kong

Equipment Under Test: BlueSPEAK II

Brand Name: i.Tech

FCC ID Number: RKIC51-A05035-XX

Model No.: C51-A06019-XX (x = 0-9, A-Z, a-z or blank)

Model Difference: No constructional difference. Difference in logo / silkscreen, color,
type of packing and user manual

File Number: EF/2006/70002

Date of test: Jul. 03, 2006 ~ Jul. 05, 2006

Date of EUT Received: Jul. 03, 2005

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:

Danny Yeh

Date

Jul. 17, 2006

Danny Yeh

Prepared By:

Elisa Chen

Date

Jul. 17, 2006

Elisa Chen

Approved By:

Vincent Su

Date

Jul. 17, 2006

Vincent Su

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Version

Version No.	Date
00	Jul. 05, 2006
01	Jul. 17, 2006

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1. GENERAL INFORMATION

1.1. Product Description

The i.Tech Dynamic Limited, Model: C51-A06019-XX (referred to as the EUT in this report) is a Bluetooth Car Kit.

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 2402 – 2480MHz, 79 channels
- B). Rated output power: 1.50 dBm
- C). Modulation type: Frequency Hopping Spread Spectrum (FHSS) (GFSK)
- D). Antenna Designation: Chip Antenna, 1.2 dBi, Non-User Replaceable (Fixed)
- E). Power Supply: Input: 12V~24Vdc from Car Battery

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

This submittal(s) (test report) is intended for FCC ID: **RKIC51-A05035-XX** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. The composite system (Digital Device) is compliance with Subpart B is authorized under a Verification.

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.

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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 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 placed on a 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 placed on a 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

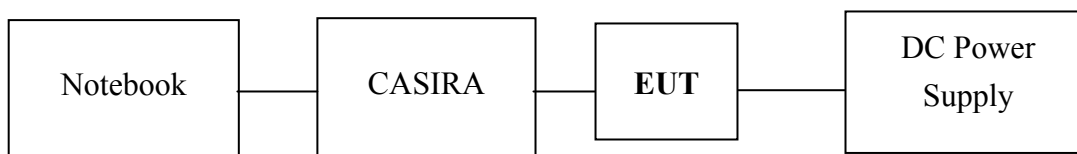


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	Compaq	PSA10L-3V1JDP	Z3062680P	N/A	Un-shielding
2.	CASIRA	CSR	BCES301199/1	7383070403	N/A	Un-shielding
3.	DC Power Supply	TOPWARD	3303A	715856	N/A	Un-shielding
4.	Test Software	CSR	BlueSuite 1.22	Version1.22	N/A	N/A

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	Conducted Emission	N/A
§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)	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 Engineering mode for staying in continuous transmitting and receiving.

This is Class II Permissive Change report, channel low (2402MHz) 、mid (2441MHz) and high (2480MHz) with highest data rate are chosen for conducted power, spurious emission and band edge testing

5. PEAK OUTPUT POWER MEASUREMENT

5.1. 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.

5.2. 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.

5.3. Measurement Result

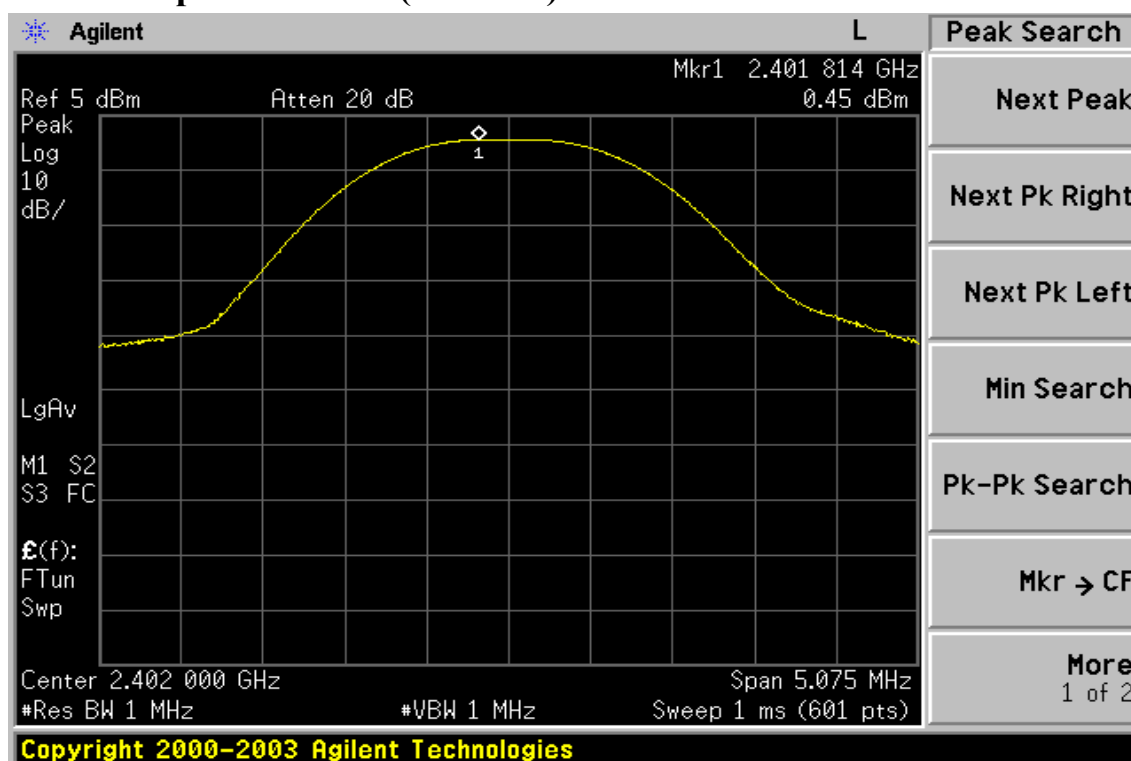
CH	Frequency (MHz)	Reading Power dBm	Cable Loss	Output Power dBm	Output Power W	Limit (W)
LOW	2402.0	0.45	0.20	0.65	0.00116	1
MID	2441.0	0.50	0.20	0.70	0.00117	1
HIGH	2480.0	-0.14	0.20	0.06	0.00101	1

5.4. Measurement Equipment Used:

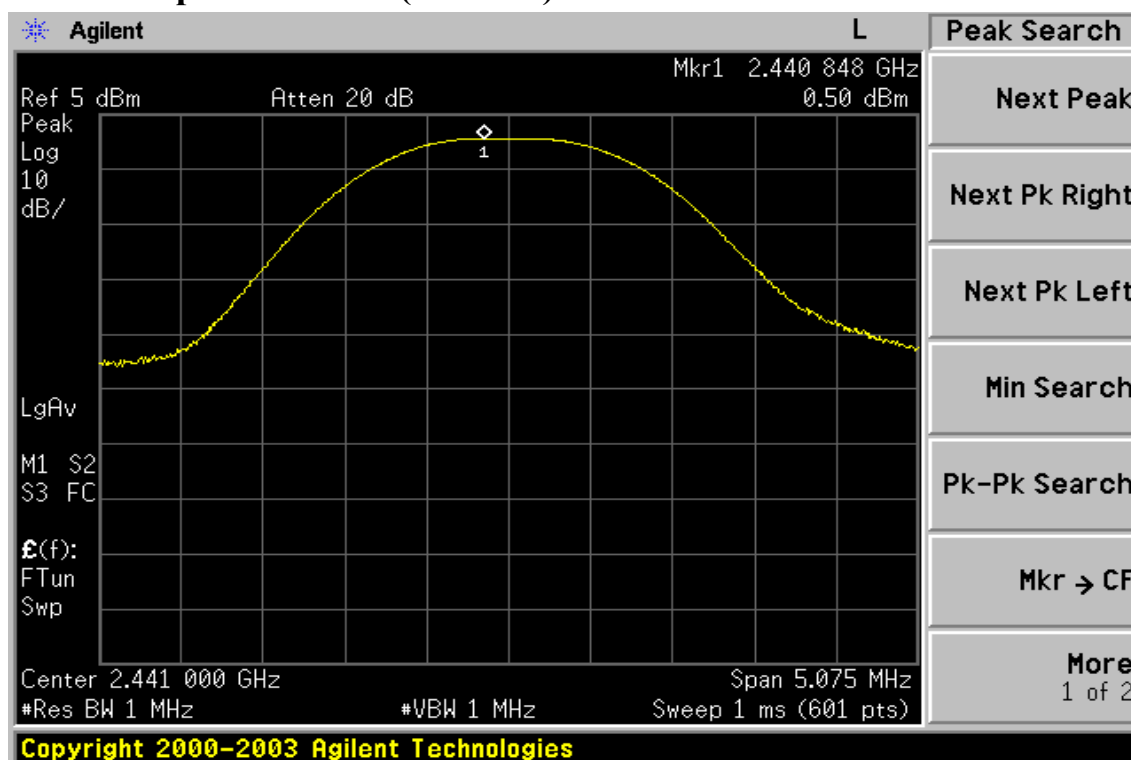
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	05/27/2005	05/26/2006
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2005	08/27/2006
Spectrum Analyzer	Agilent	E4446A	MY43360126	01/22/2006	01/21/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2005	10/06/2006

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Peak Power Output Data Plot (CH Low)

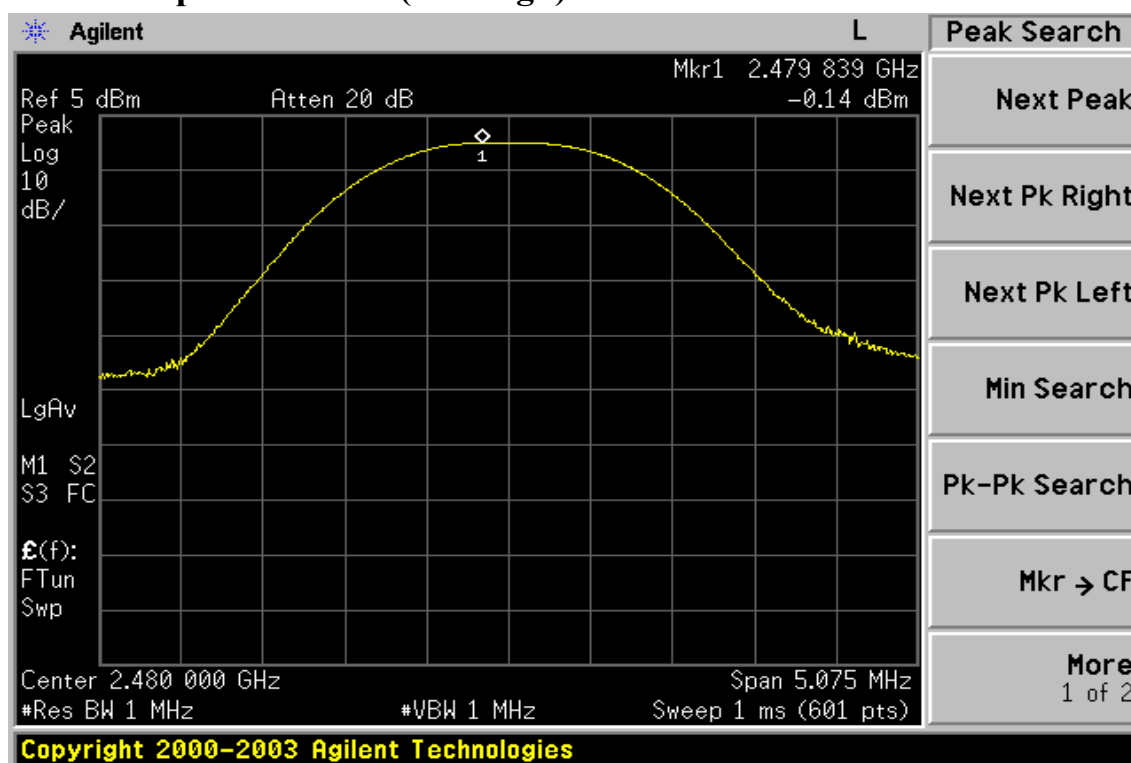


Peak Power Output Data Plot (CH Mid)



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Peak Power Output Data Plot (CH High)



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6. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

6.1. 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).

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 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 2.4835GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.
7. Radiated Emission refer to section 9.

6.3. Measurement Result

Refer to attach spectrum analyzer data chart.

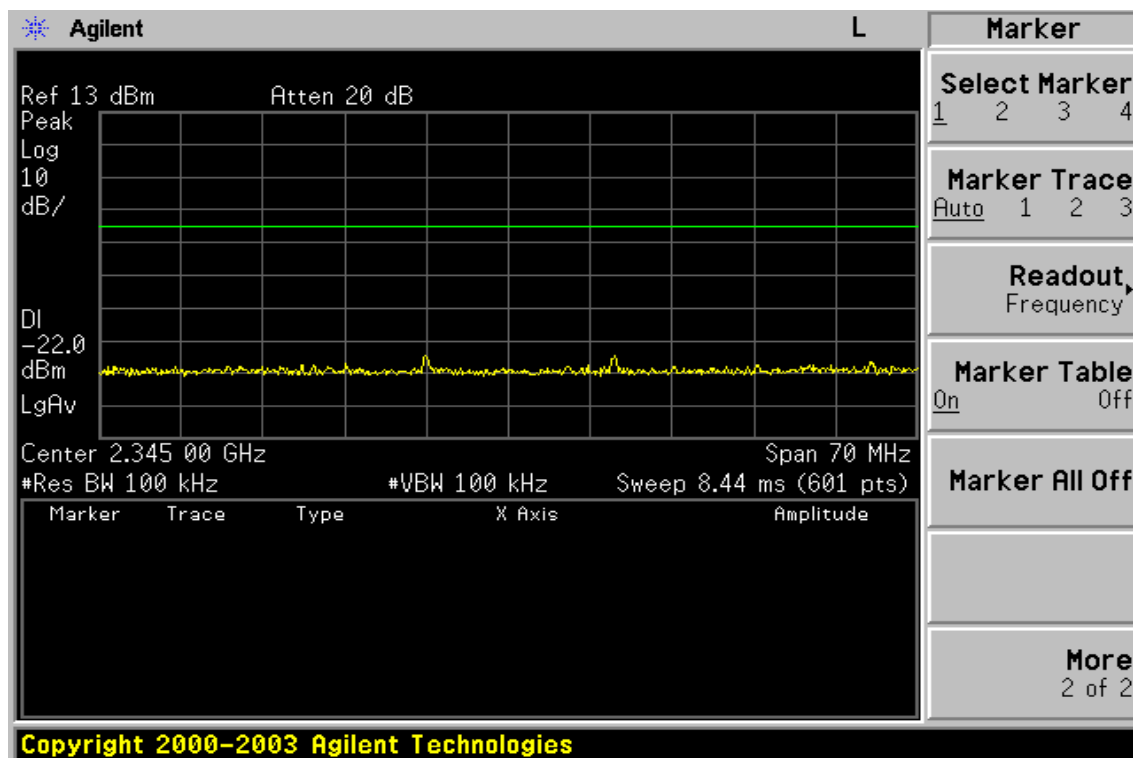
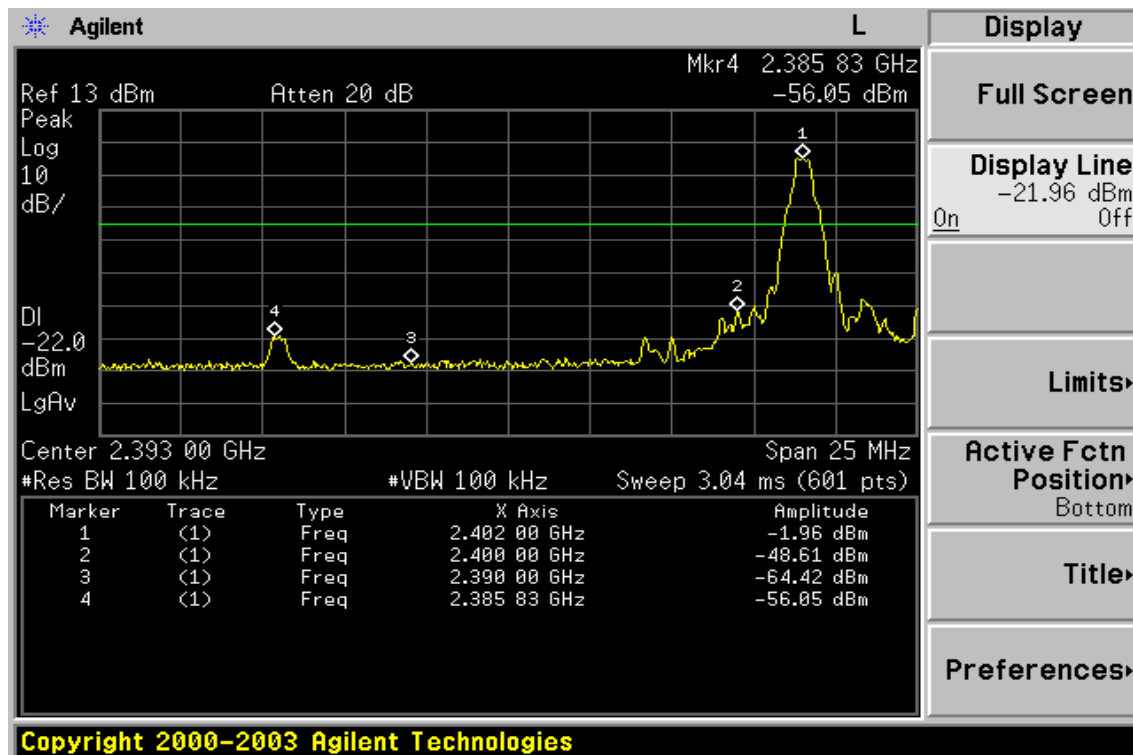
6.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2005	03/28/2006
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2005	10/06/2006

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

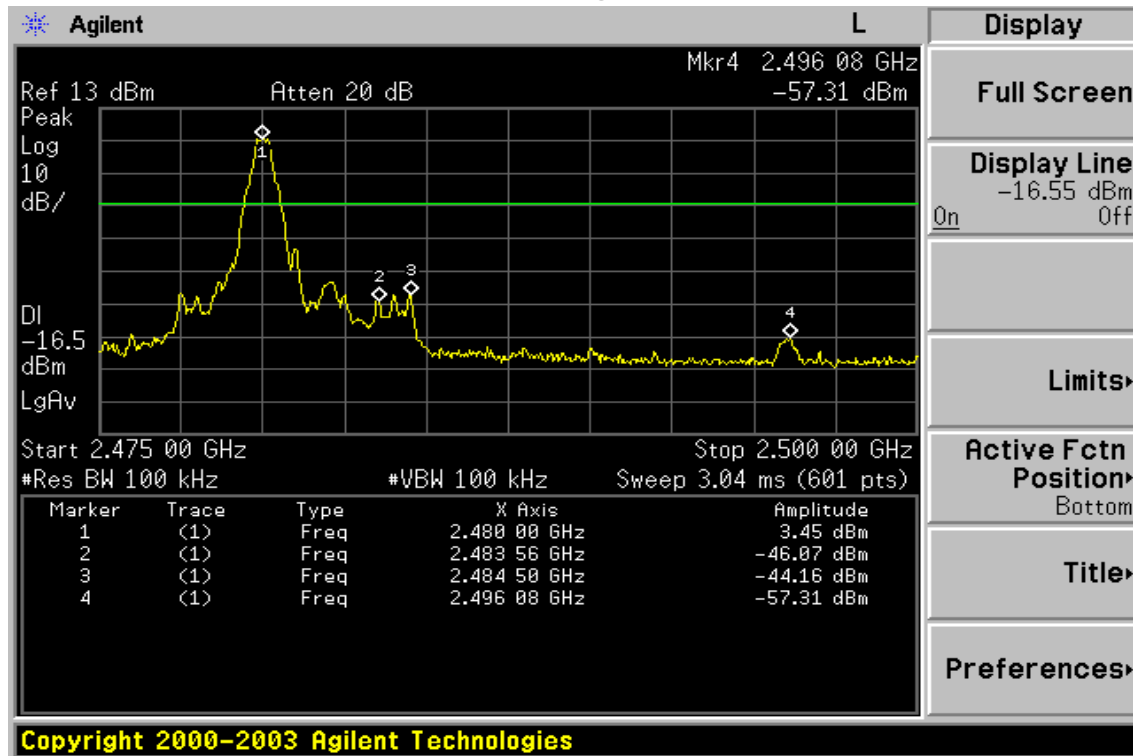
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Conducted Emission: Test Data CH-Low



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Conducted Emission: Test Data CH-High



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Radiated Emission:

Operation Mode TX CH Low
Fundamental Frequency 2402 MHz
Temperature 25 °C
Humidity 65 %

Test Date Jul. 01, 2006
Test By Danny
Pol Ver.

Peak Freq. (MHz)	AV Reading (dBuV)	Actual FS Ant./CL CF(dB)	Peak Reading (dBuV/m)	AV Reading (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
2386.0	---				74.00	54.00		
2390.0	---				74.00	54.00		

Operation Mode TX CH Low
Fundamental Frequency 2402 MHz
Temperature 25 °C
Humidity 65 %

Test Date Jul. 01, 2006
Test By Danny
Pol Hor.

Peak Freq. (MHz)	AV Reading (dBuV)	Actual FS Ant./CL CF(dB)	Peak Reading (dBuV/m)	AV Reading (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
2386.0	---				74.00	54.00		
2390.0	---				74.00	54.00		

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
Fundamental Frequency 2480 MHz
Temperature 25 °C
Humidity 65 %

Test Date Jul. 01, 2006
Test By Danny
Pol Ver.

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	Remark
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
2483.5	---	---	---	---	---	74.00	54.00	---	Peak
2484.5	---	---	---	---	---	74.00	54.00	---	Peak
2496.1	---	---	---	---	---	74.00	54.00	---	Peak

Operation Mode TX CH High
Fundamental Frequency 2480 MHz
Temperature 25 °C
Humidity 65 %

Test Date Jul. 01, 2006
Test By Danny
Pol Hor.

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	Remark
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
2483.5	---	---	---	---	---	74.00	54.00	---	Peak
2484.5	---	---	---	---	---	74.00	54.00	---	Peak
2496.1	---	---	---	---	---	74.00	54.00	---	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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7. SPURIOUS RADIATED EMISSION TEST

7.1. . 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.

7.2. EUT Setup

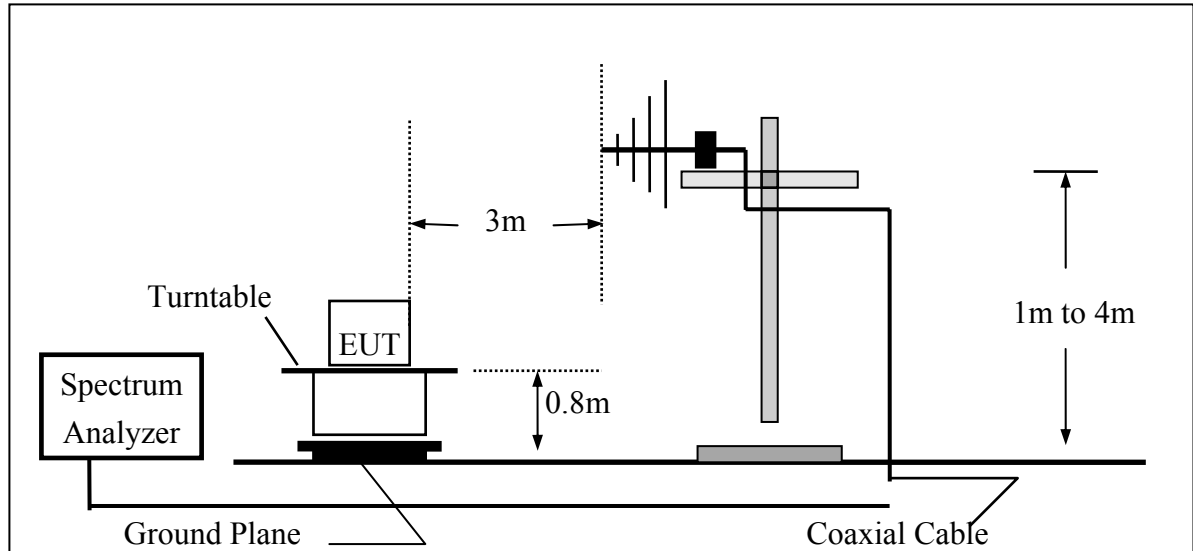
1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was put in the front of the test table. The peripherals was placed on the side of the host system. The rear of the EUT and peripherals were placed flushed with 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.

7.3. Measurement Procedure

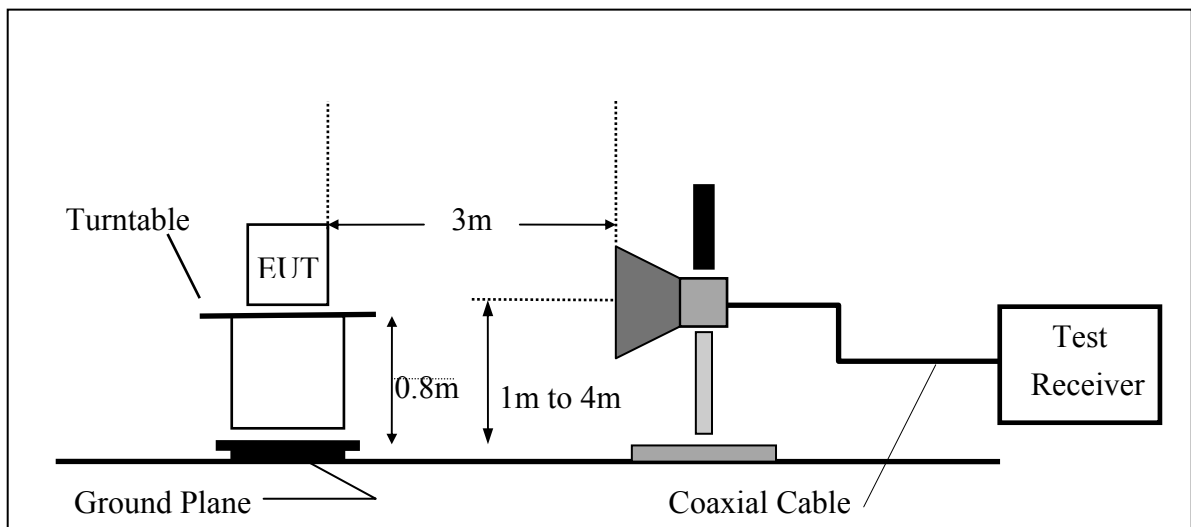
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was 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.

7.4. Test SET-UP (Block Diagram of Configuration)

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



(B) Radiated Emission Test Set-UP Frequency Over 1000MHz



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7.5. Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	05/27/2006	05/26/2007
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2005	08/26/2006
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2006	06/02/2007
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2005	08/15/2006
Horn antenna	Schwarzbeck	BBHA 9170	184/185	07/04/2006	07/03/2007
Pre-Amplifier	HP	8447D	2944A09469	07/19/2005	07/18/2006
Pre-Amplifier	HP	8494B	3008A00578	02/26/2006	02/25/2007
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	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2005	10/08/2006
Site NSA	SGS	966 chamber	N/A	11/17/2005	11/16/2006

7.6. 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:

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

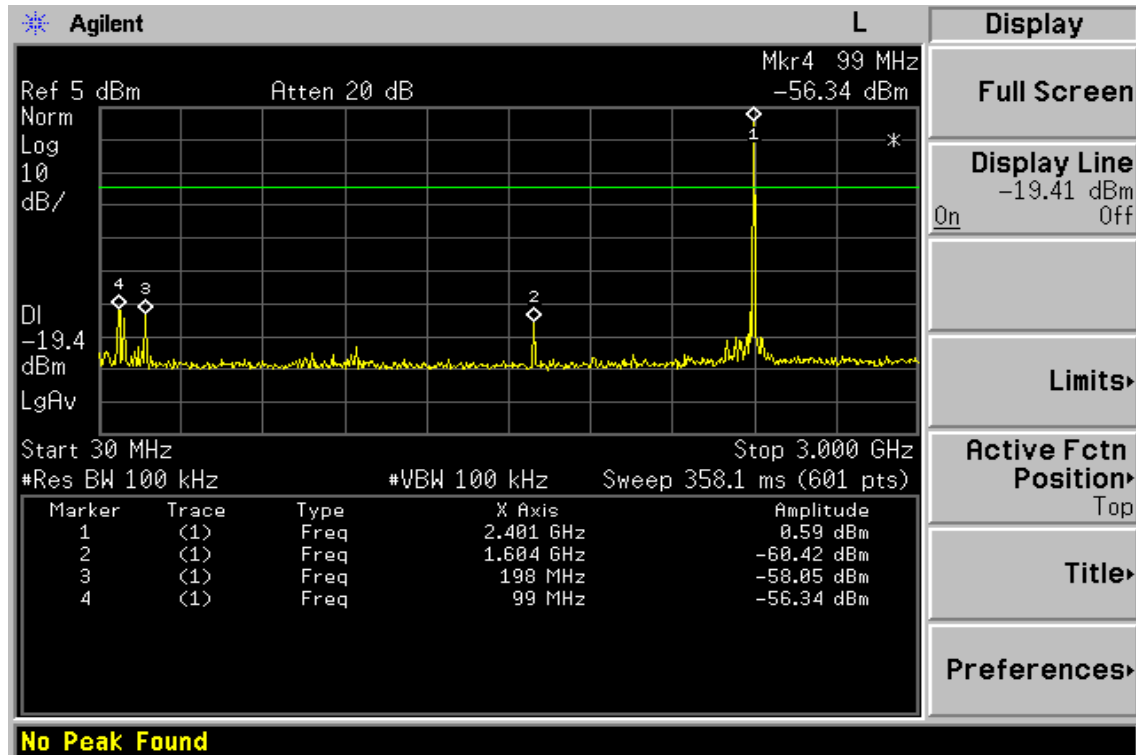
Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

7.7. Measurement Result

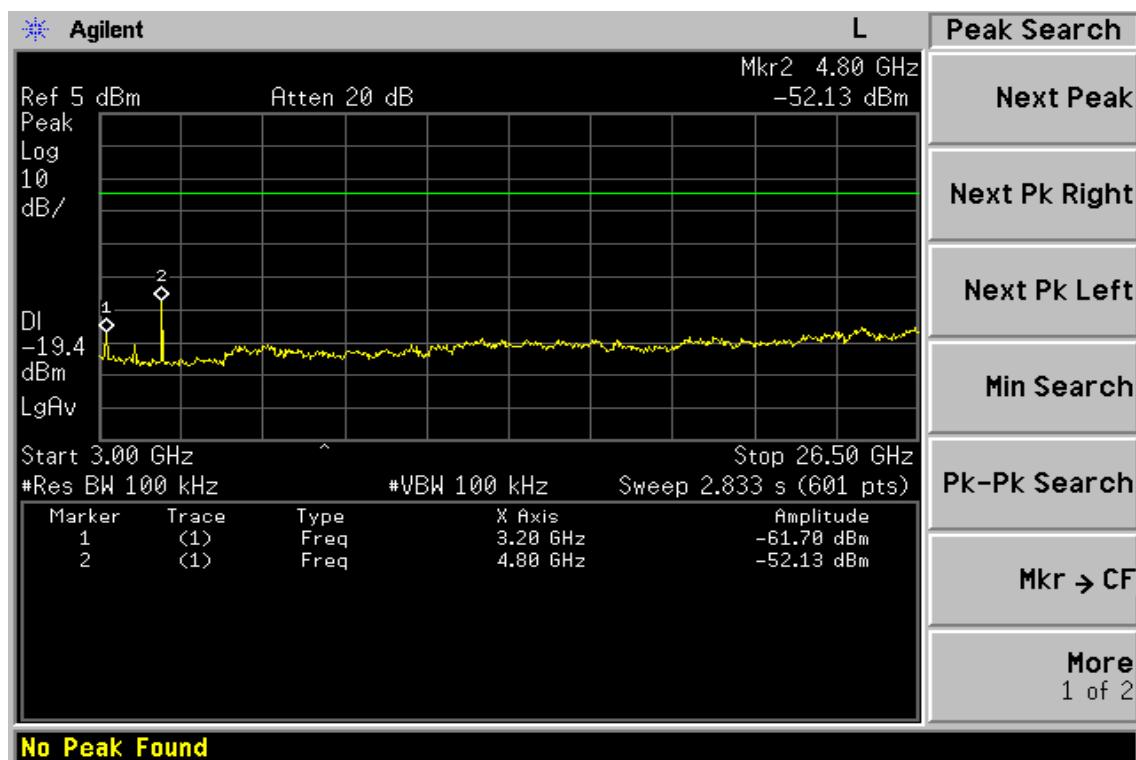
Refer to attach tabular data sheets.

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Conducted Spurious Emission Measurement Result Ch Low 30MHz – 3GHz

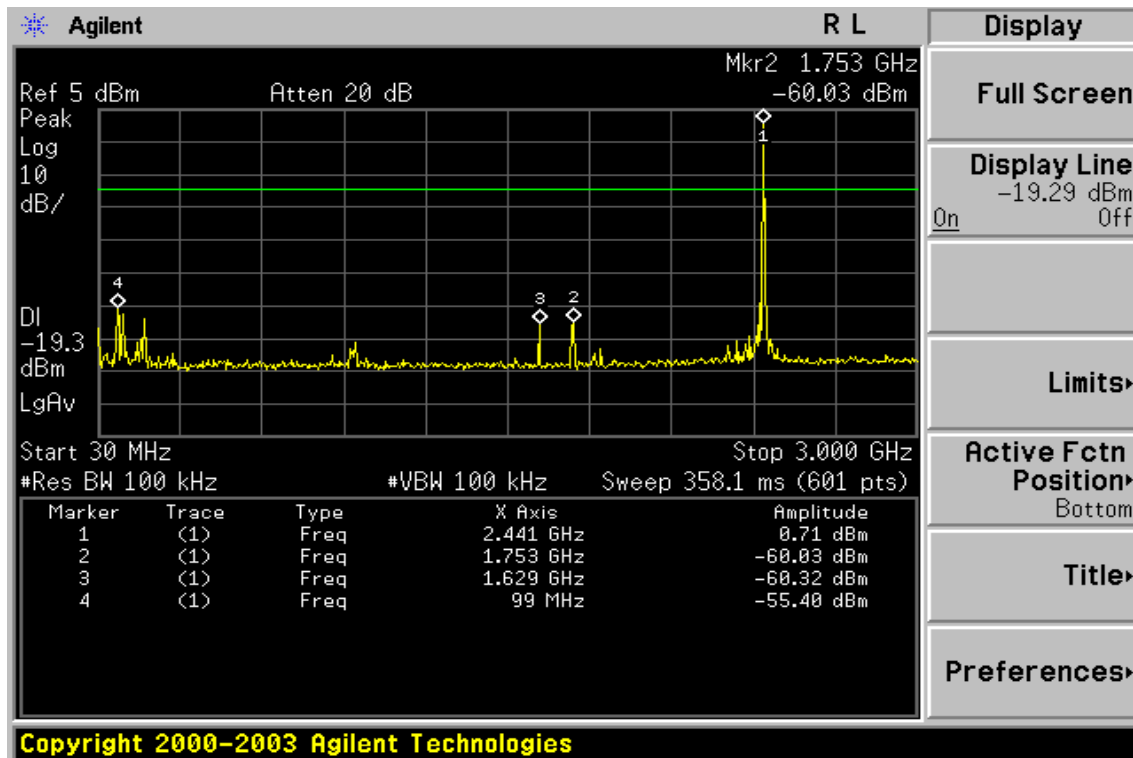


Ch Low 3GHz – 26.5GHz

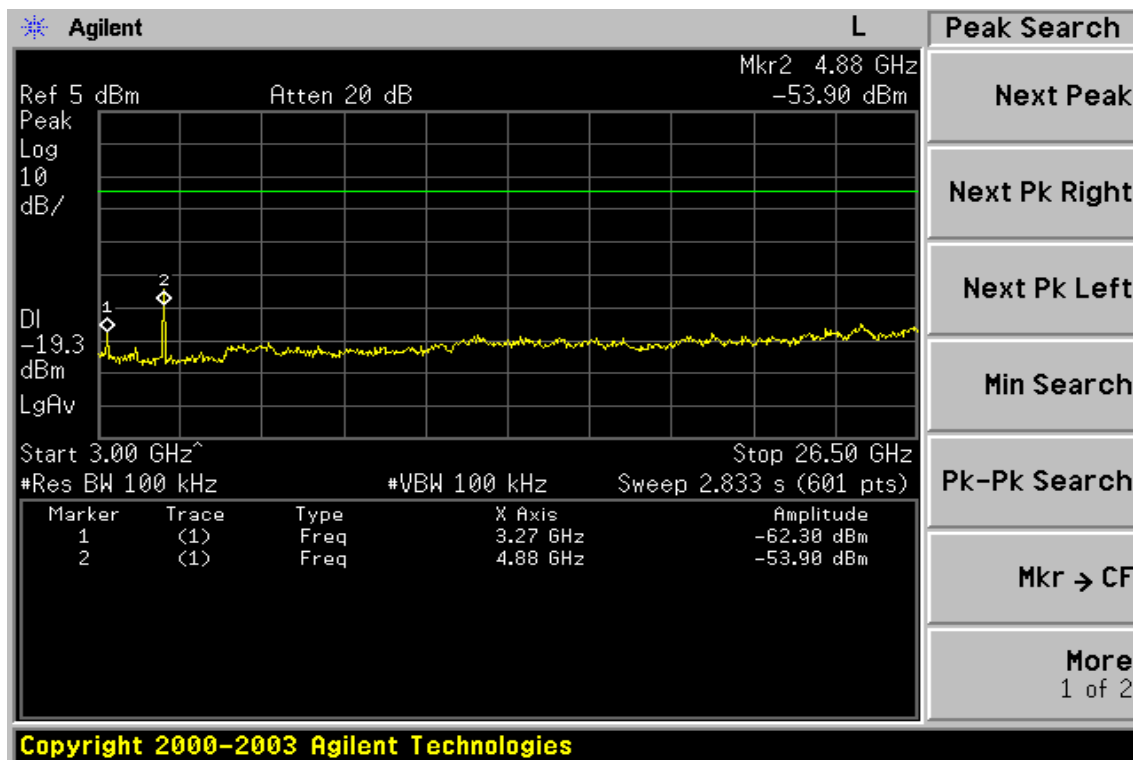


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Ch Mid 30MHz – 3GHz

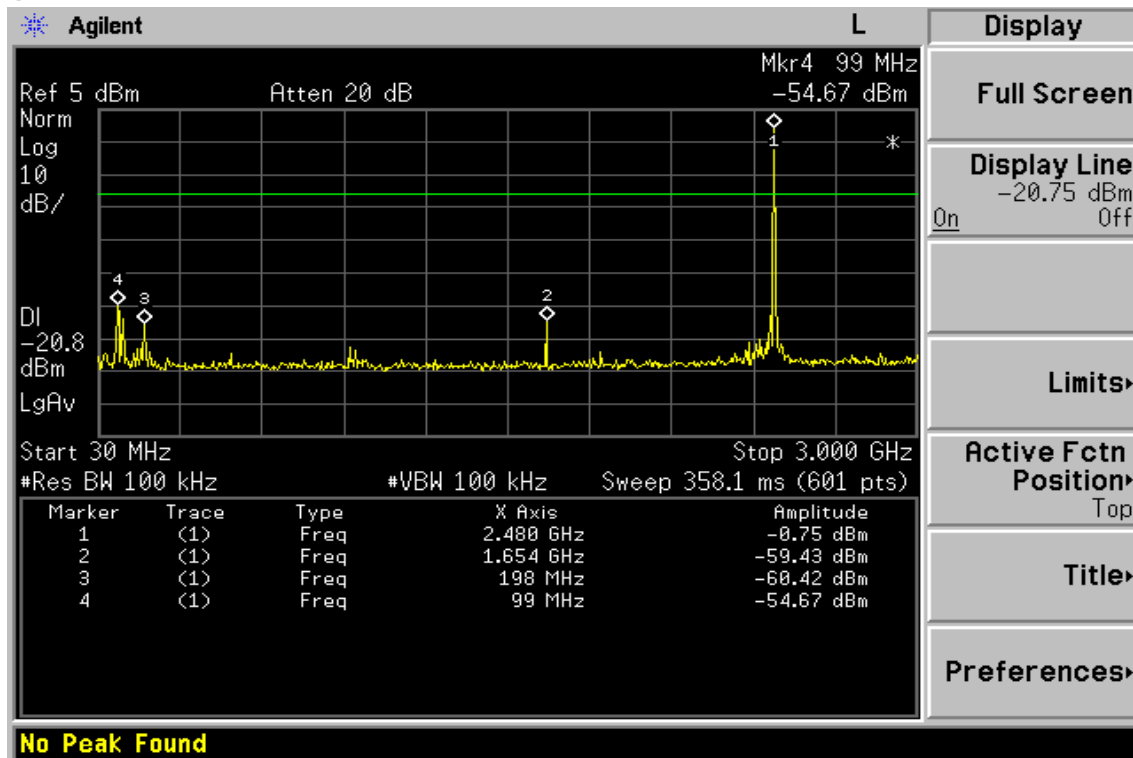


Ch Mid 3GHz – 26.5GHz

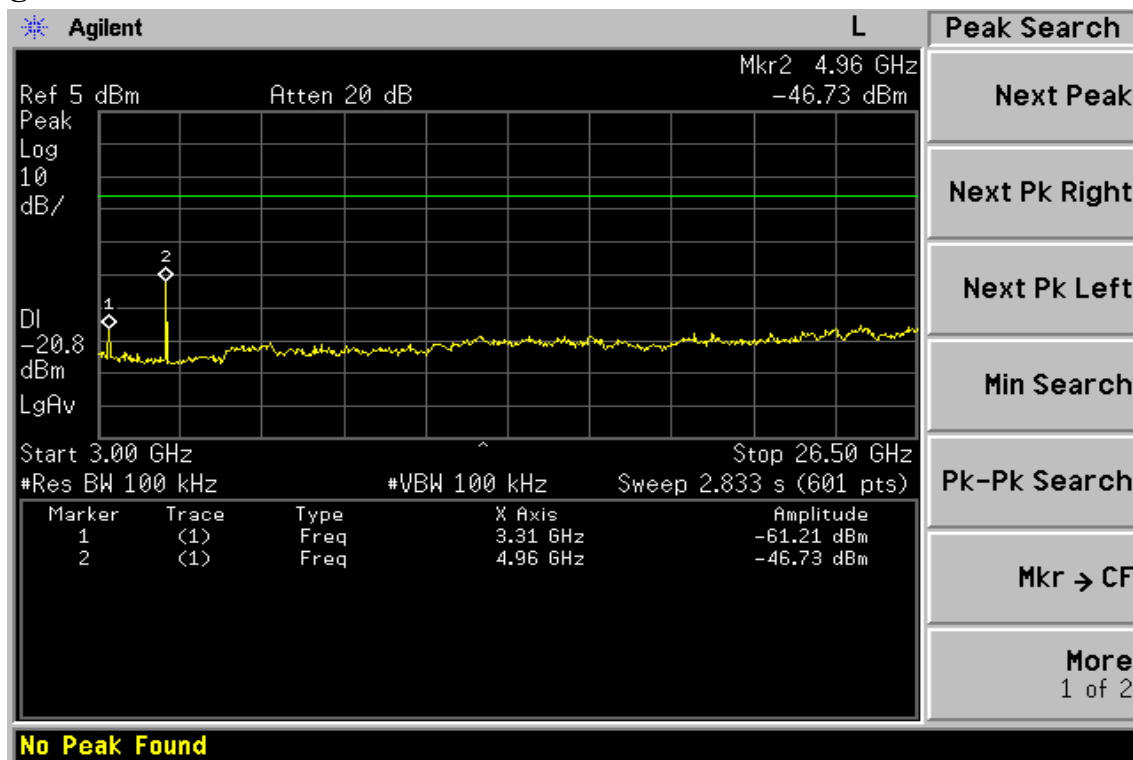


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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH Low
Fundamental Frequency 2402MHz
Temperature 25 °C
Humidity 65 %

Test Date Jul. 04, 2006
Test By Danny
Pol Ver./Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
37.76	V	Peak	47.79	-14.85	32.94	40.00	-7.06
55.22	V	Peak	46.80	-15.00	31.80	40.00	-8.20
37.76	H	Peak	47.08	-14.85	32.23	40.00	-7.77
55.22	H	Peak	45.41	-15.00	30.41	40.00	-9.59
288.02	H	Peak	42.87	-13.85	29.02	46.00	-16.98
622.67	H	Peak	38.40	-7.12	31.28	46.00	-14.72

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) Data 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	Jul. 04, 2006
Fundamental Frequency	2441MHz	Test By	Danny
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)
39.70	V	Peak	48.02	-14.70	33.32	40.00	-6.68
57.16	V	Peak	46.67	-14.89	31.78	40.00	-8.22
297.72	V	Peak	36.09	-13.47	22.62	46.00	-23.38
39.70	H	Peak	47.29	-14.70	32.59	40.00	-7.41
57.16	H	Peak	45.77	-14.89	30.88	40.00	-9.12
288.02	H	Peak	42.19	-13.85	28.34	46.00	-17.66
622.67	H	Peak	39.39	-7.12	32.27	46.00	-13.73

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) Data 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.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH High
Fundamental Frequency 2480MHz
Temperature 25 °C
Humidity 65 %

Test Date Jul. 04, 2006
Test By Danny
Pol Ver./Hor.

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
39.70	V	Peak	48.03	-14.70	33.33	40.00	-6.67
55.22	V	Peak	46.16	-15.00	31.16	40.00	-8.84
180.35	V	Peak	34.84	-15.20	19.64	43.50	-23.86
39.70	H	Peak	47.91	-14.70	33.21	40.00	-6.79
55.22	H	Peak	45.90	-15.00	30.90	40.00	-9.10
288.02	H	Peak	43.72	-13.85	29.87	46.00	-16.13
622.67	H	Peak	39.60	-7.12	32.48	46.00	-13.52
750.71	H	Peak	34.57	-4.44	30.13	46.00	-15.87

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) Data 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
Fundamental Frequency 2402 MHz
Temperature 25 °C
Humidity 65 %

Test Date Jul. 04, 2006
Test By Danny
Pol Ver.

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1604.5	54.26	--	-5.60	48.66	--	74.00	54.00	-5.34	Peak
4804.0	38.42	--	3.90	42.32	--	74.00	54.00	-11.68	Peak
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 Low	Test Date	Jul. 04, 2006
Fundamental Frequency	2402 MHz	Test By	Danny
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1344.5	43.21	--	-6.57	36.64	--	74.00	54.00	-17.36	Peak
1604.5	50.78	--	-5.60	45.18	--	74.00	54.00	-8.82	Peak
4804.0	37.33	--	3.90	41.23	--	74.00	54.00	-12.77	Peak
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
 Fundamental Frequency 2441 MHz
 Temperature 25 °C
 Humidity 65 %

Test Date Jul. 04, 2006
 Test By Danny
 Pol Ver.

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1624.0	50.59	--	-5.57	45.02	--	74.00	54.00	-8.98	Peak
4881.0	38.32	--	4.09	42.41	--	74.00	54.00	-11.59	Peak
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
 Fundamental Frequency 2441 MHz
 Temperature 25 °C
 Humidity 65 %

Test Date Jul. 04, 2006
 Test By Danny
 Pol Hor.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1344.5	43.15	--	-6.57	36.58	--	74.00	54.00	-17.42	Peak
1624.0	57.40	--	-5.57	51.83	--	74.00	54.00	-2.17	Peak
4881.0	37.69	--	4.09	41.78	--	74.00	54.00	-12.22	Peak
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
Fundamental Frequency 2480 MHz
Temperature 25 °C
Humidity 65 %

Test Date Jul. 04, 2006
Test By Danny
Pol Ver.

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1650.0	52.66	--	-5.47	47.19	--	74.00	54.00	-6.81	Peak
4960.0	41.07	--	4.31	45.38	--	74.00	54.00	-8.62	Peak
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
Fundamental Frequency 2480 MHz
Temperature 25 °C
Humidity 65 %

Test Date Jul. 04, 2006
Test By Danny
Pol Hor.

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1344.5	42.46	--	-6.57	35.89	--	74.00	54.00	-18.11	Peak
1650.0	57.80	--	-5.47	52.33	--	74.00	54.00	-1.67	Peak
4960.0	----								
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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