

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS-210

OF

Product Name: Bluetooth GPS Receiver
Brand Name: TomTom
Model Name: TomTom Wireless GPS MkII
IC Number: 5442A-TTBTGPS2
FCC ID Number: RID-TTBTGPS2
Report No.: ER/2006/60010~11
Issue Date: Sep. 18, 2006
Rule Part: FCC Part 15C:2005 , §15.247,
RSS-210 issue 6:2005, Annex 8
Prepared for
GlobalSat Technology Corporation
16F, No. 186, Jian Yi Road., Far East Century
Park, Chung Ho City ,Taipei Hsien, Taiwan
Prepared by
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Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: Globalsat Technology Corporation
16F, No. 186, Jian Yi Road., Far East Century Park, Chung Ho City,
Taipei Hsien, Taiwan

Equipment Under Test: Bluetooth GPS Receiver

Brand Name: TomTom

IC Number: 5442A-TTBTGPS2

ID Number: RID-TTBTGPS2

Model No.: TomTom Wireless GPS MkII

Model Difference: N/A

File Number: ER/2006/60010~11

Date of test: Sep. 01, 2006 ~ Sep. 15, 2006

Date of EUT Received: Sep. 01, 2006

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 15C:2005, §15.247 and RSS-210 issue 6: 2005 Annex 8.

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

Test By:



Date

Sep. 18, 2006

Jason Wu/Sr. Engineer

Prepared By:



Date

Sep. 18, 2006

Elisa Chen/Asst. Supervisor

Approved By:



Date

Sep. 18, 2006

Vincent Su/Manager

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IC: 5442A-TTBTGPS2
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Version

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00	Sep. 18, 2006

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1. GENERAL INFORMATION

1.1 Product Description

The Globalsat Technology Corporation, Model: TomTom Wireless GPS MkII (referred to as the EUT in this report) is Bluetooth GPS Receiver.

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 2402 – 2480MHz, 79 channels
- B). Rated output power: 2.97 dBm
- C). Modulation type: Frequency Hopping Spread Spectrum (GFSK)
- D). Antenna Designation: Chip Antenna, 2dBi, Non-User Replaceable (Fixed)
- E). Power Supply: 3.7Vdc from re-chargeable battery or 5V from AC/DC power adaptor

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **RID-TTBTGPS2** filing to comply with Section 15.247 of the FCC Part 15C: 2005, Subpart C Rules. And **IC: 5442A-TTBTGPS2** filing to comply with Industry Canada RSS-210 issue 6: 2005 Annex 8.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003) and RSS-Gen: 2005. 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 TAF (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 placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7, 13 of ANSI C63.4-2003 and RSS-Gen:2005. 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, 13 of ANSI C63.4-2003 and RSS-Gen:2005.

2.4 Configuration of Tested System

(Radiated Emission)

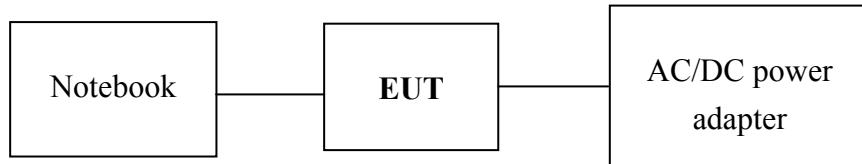


Table 2.4.2 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.
1.	Notebook	Compaq	Presario 2100	N/A	CNF2450Q1R
2.	AC/DC Adapter	PHIHONG	PSC11R-050	N/A	N/A

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)/ RSS-Gen §7.2.2	Conducted Emission	Compliant
§15.247(b)/ RSS-210 issue 6,§A8.4(2)	Peak Output Power	Compliant
§15.247(c) RSS-210 issue 6,§A8.5	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(c) RSS-210 issue 6,§A8.5	TX/RX Spurious Emission	Compliant
§15.247(a)(1)/ RSS-210 issue 6,§A8.1(2)	Frequency Separation	Compliant
§15.247(a)(1)(iii)/ RSS-210 issue 6,§A8.4(2)	Number of hopping frequency	Compliant
§15.247(a)(1)(ii)/ RSS-210 issue 6,§A8.1(4)	Time of Occupancy	Compliant
§15.247/ RSS-210 issue 6,§A8.3(2)	Peak Power Density	Compliant
RSS-Gen §4.4.1	99% Power Bandwidth	Compliant
§15.203, §15.247(c)/ RSS-GEN 7.1.4, RSS-210 issue 6,§A8.4	Antenna Requirement	Compliant
	20dB Bandwidth	No Limit

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 741k highest data rate are chosen for full testing.

The X, Y and Z-axis of EUT were pre-test; X mode were the worst case and reported.

5. CONDUCTED EMISSION TEST

5.1 Standard Applicable

According to §15.207 and RSS-Gen §7.2.2, frequency range 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 AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN 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:

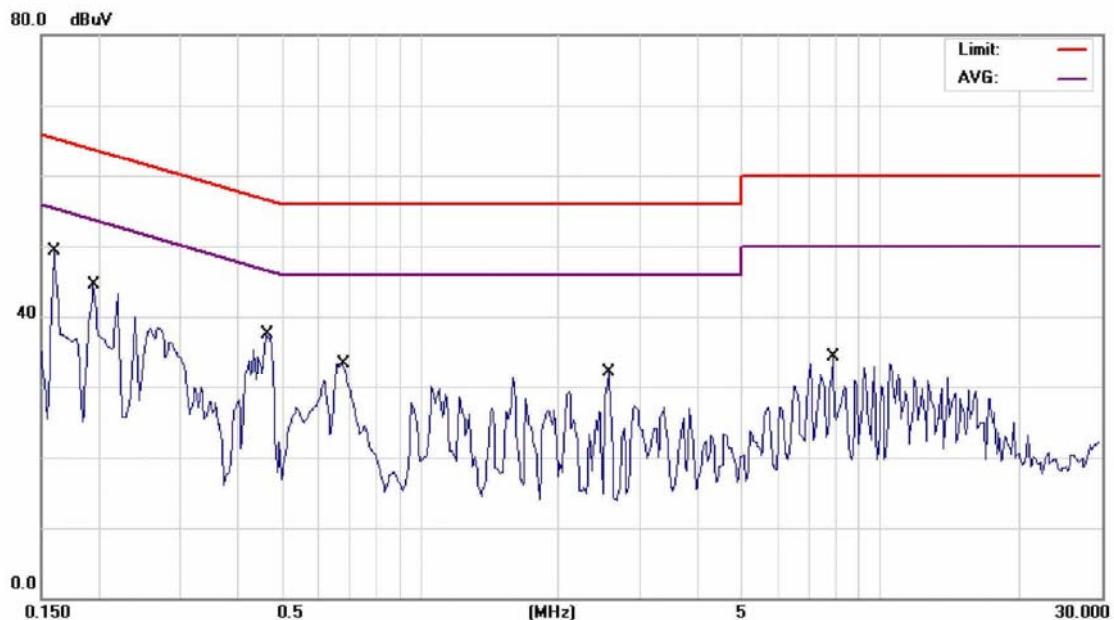
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	09/02/2006	09/03/2007
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2006	06/10/2007
Transient Limiter	HP	11947A	3107A02062	09/02/2006	09/03/2007
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2005	12/30/2006
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2005	12/23/2006
Coaxial Cables	N/A	No. 3, 4	N/A	12/01/2005	12/01/2206

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-peaked.

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Conducted Emission Test Plot

Conducted Emission Measurement

Site SGS CONDUCTED #1

Phase: **L1**

Temperature: 25 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

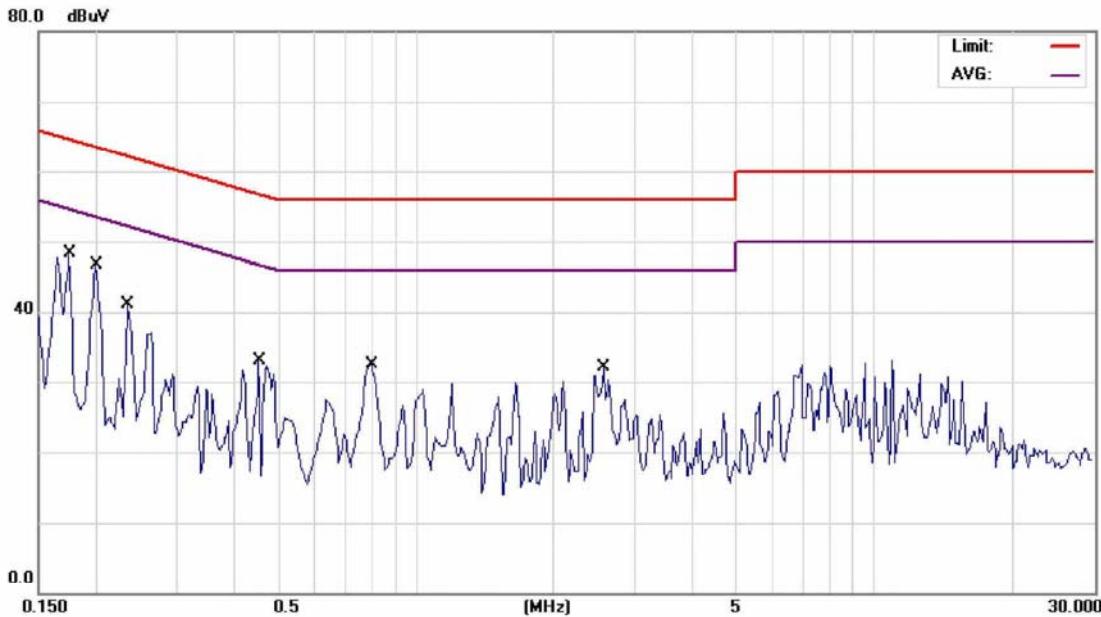
EUT: Bluetooth GPS RECEIVER

M/N: TOM TOM WIRELESS GPS MKII

Note: BT RUM GPS

No.	Mk.	Freq.	Reading	Measure-	Limit	Over	Detector	Comment
			Level					
		MHz	dBuV	dB	dBuV	dB		
1	*	0.1600	48.63	0.69	49.32	65.46	-16.14	QP
2		0.1950	43.77	0.74	44.51	63.82	-19.31	QP
3		0.4650	36.64	0.86	37.50	56.60	-19.10	QP
4		0.6800	32.48	0.77	33.25	56.00	-22.75	QP
5		2.5800	31.39	0.68	32.07	56.00	-23.93	QP
6		7.9200	33.60	0.78	34.38	60.00	-25.62	QP

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Conducted Emission Measurement

Site SGS CONDUCTED #1

Phase: **N**

Temperature: 25 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

EUT: Bluetooth GPS RECEIVER

M/N: TOM TOM WIRELESS GPS MKII

Note: BT RUM GPS

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over	Detector	Comment
			Level		ment				
1	*	0.1750	47.53	0.71	48.24	64.72	-16.48	QP	
2		0.2000	45.86	0.75	46.61	63.61	-17.00	QP	
3		0.2350	40.37	0.77	41.14	62.27	-21.13	QP	
4		0.4550	32.24	0.86	33.10	56.78	-23.68	QP	
5		0.8000	31.82	0.70	32.52	56.00	-23.48	QP	
6		2.5800	31.49	0.68	32.17	56.00	-23.83	QP	

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6. PEAK OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

According to §15.247(b), 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.

According to RSS-210 issue 6,§A8.4(2), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, the maximum conducted output power shall not exceed 1 W. For all other frequency hopping systems, the maximum peak conducted output power shall not exceed 0.125 W.

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	2.87	0.10	2.97	0.00198	1
2441.00	3.78	0.10	3.88	0.00244	1
2480.00	3.87	0.10	3.97	0.00249	1

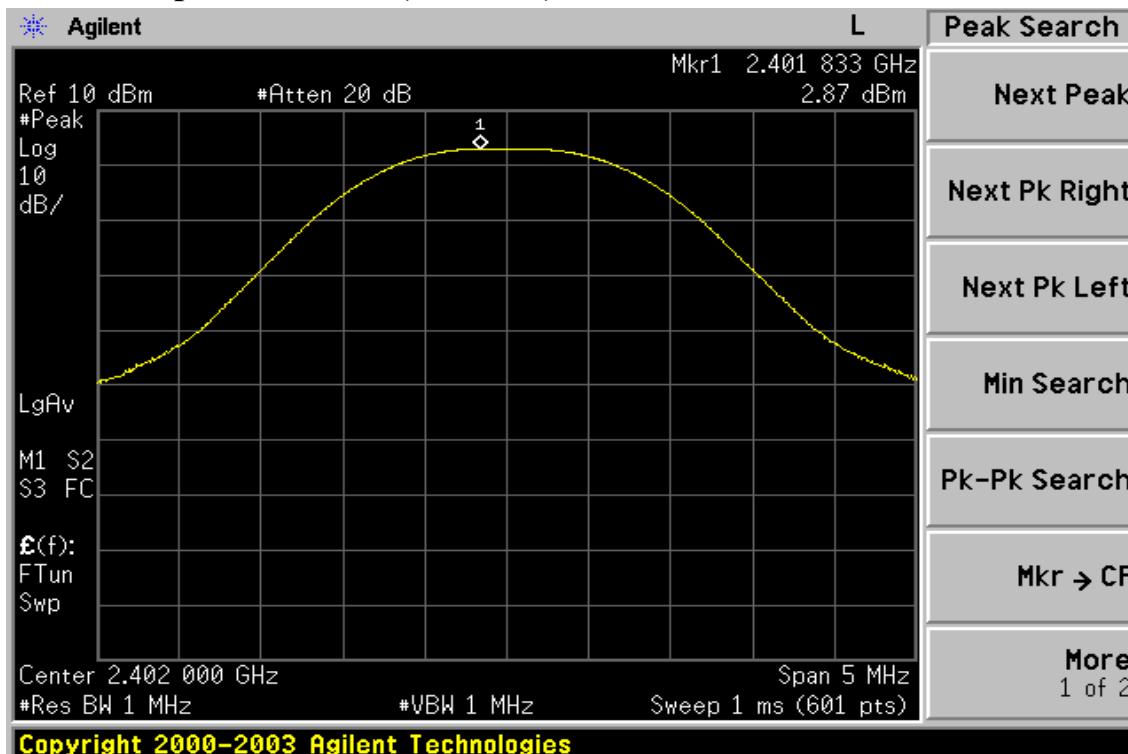
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6.4 Measurement Equipment Used:

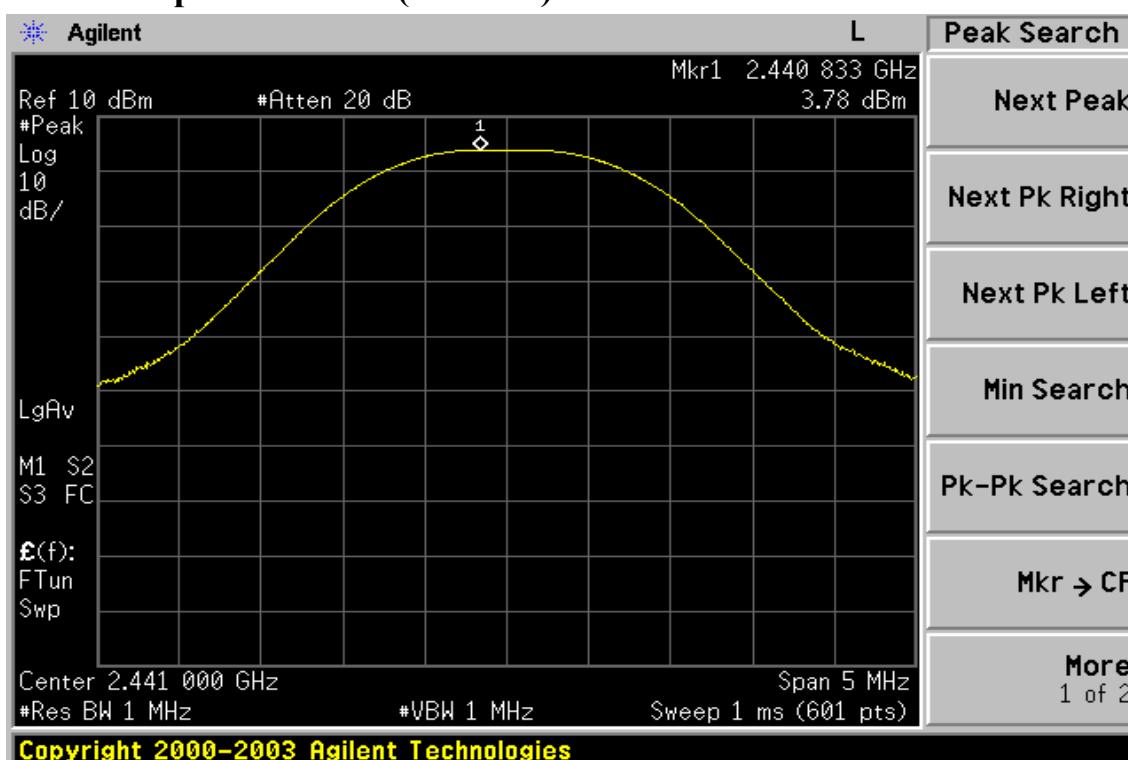
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Agilent	Power Biviber	51818	01/05/2006	01/04/2007

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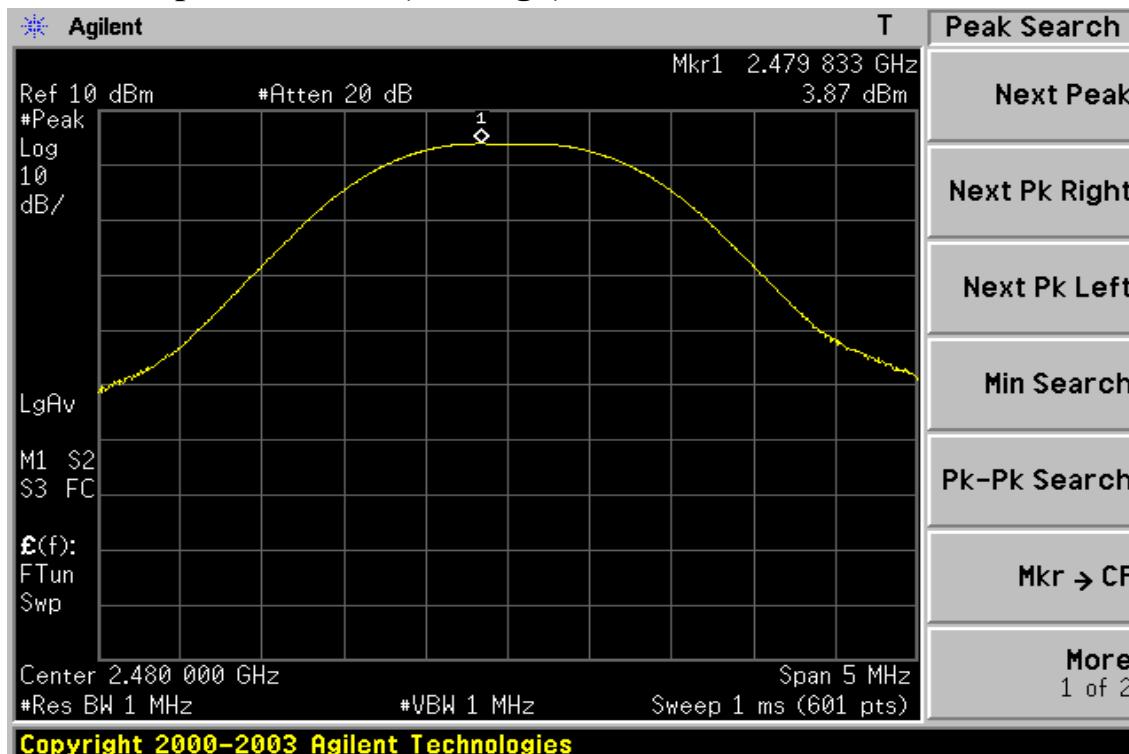
Peak Power Output Data Plot (CH Low)



Peak Power Output Data Plot (CH Mid)



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Peak Power Output Data Plot (CH High)

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7. 20dB Bandwidth

7.1 Standard Applicable

For frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

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 the spectrum analyzer as RBW=10KHz (1 % of Bandwidth.), Span= 3MHz, Sweep=auto
4. Mark the peak frequency and -20dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured were complete.

7.3 Measurement Result

CH	Bandwidth (MHz)	Limit (MHz)
Lower	0.739	1.000
Mid	0.721	1.000
Higher	0.721	1.000

7.4 Measurement Equipment Used:

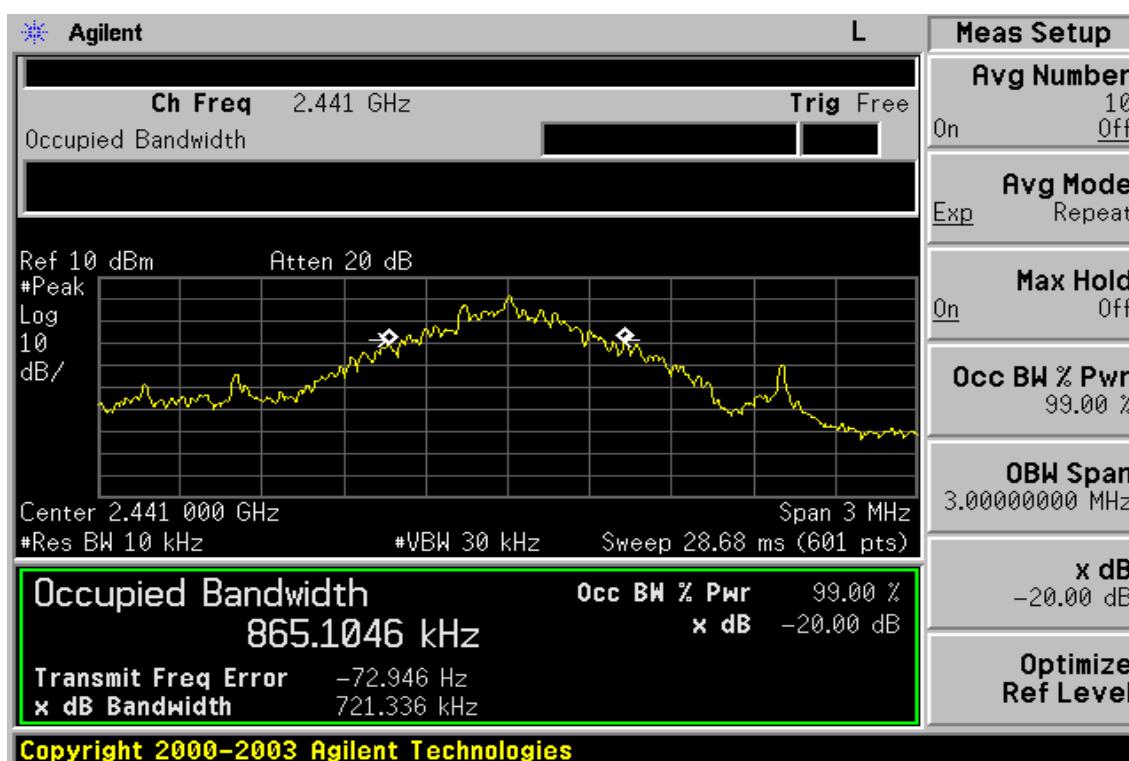
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Low Loss Cable	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	Agilent	Power Biviber	51818	01/05/2006	01/04/2007

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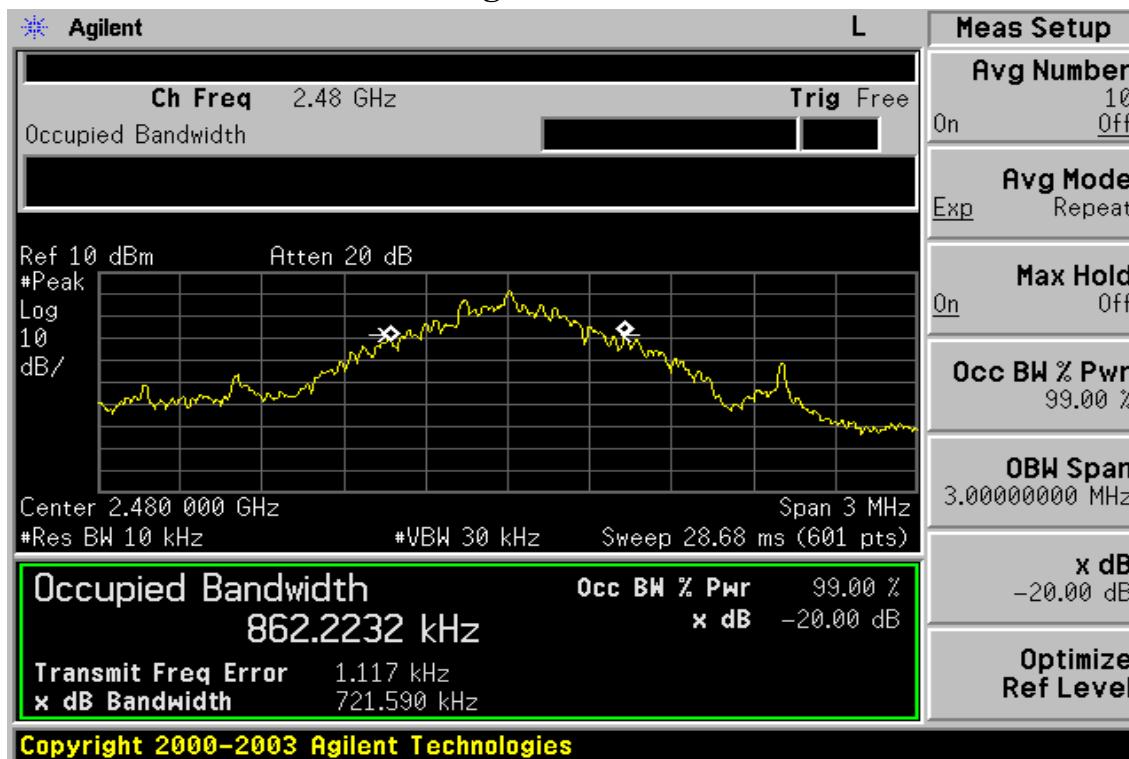
20dB Band Width Test Data CH-Low



20dB Band Width Test Data CH-Mid



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20dB Band Width Test Data CH-High

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8. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

8.1 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).

According to RSS-210 issue 6, §A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3.

8.2 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.

8.3 Measurement Result

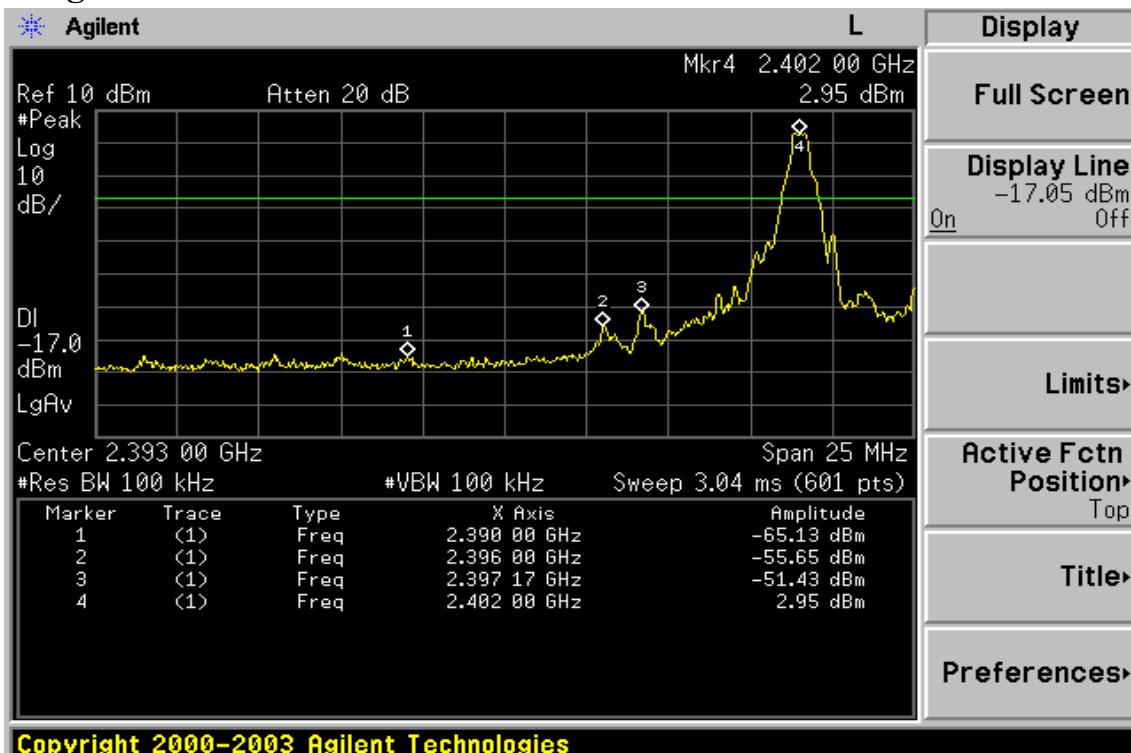
Refer to attach spectrum analyzer data chart.

8.4 Measurement Equipment Used:

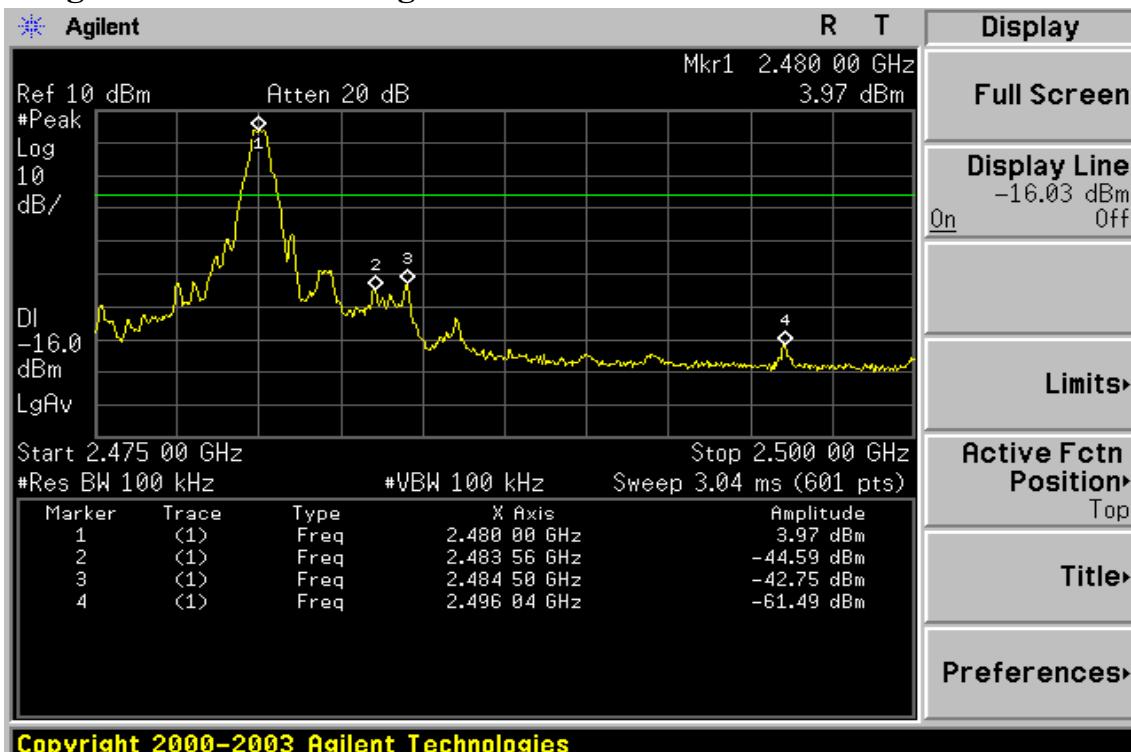
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Agilent	Power Biviber	51818	01/05/2006	01/04/2007

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Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission:

Operation Mode	TX CH Low	Test Date	Sep. 10, 2006
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2390.00	33.91	---	-1.39	32.52	---	74.00	54.00	-21.48 Peak

Operation Mode	TX CH Low	Test Date	Sep. 10, 2006
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2390.00	33.60	---	-1.39	32.21	---	74.00	54.00	-21.79 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= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 3MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission:

Operation Mode	TX CH High	Test Date	Sep. 10, 2006
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
2483.56	39.61	---	-0.92	38.69	---	74.00	54.00	-15.31 Peak
2484.50	41.72	---	-0.92	40.80	---	74.00	54.00	-13.20 Peak
2496.04	34.13	---	---	---	---	74.00	54.00	--- Peak

Operation Mode	TX CH High	Test Date	Sep. 10, 2006
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
2483.56	45.29	---	-0.92	44.37	---	74.00	54.00	-9.63 Peak
2484.50	48.34	---	-0.92	47.42	---	74.00	54.00	-6.58 Peak
2496.04	36.22	---	---	---	---	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= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 3MHz, VBW= 10Hz, Sweep time= 200 ms.

9. SPURIOUS RADIATED EMISSION TEST

9.1 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.

According to RSS-210 issue 6,§A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3.

9.2 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 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.

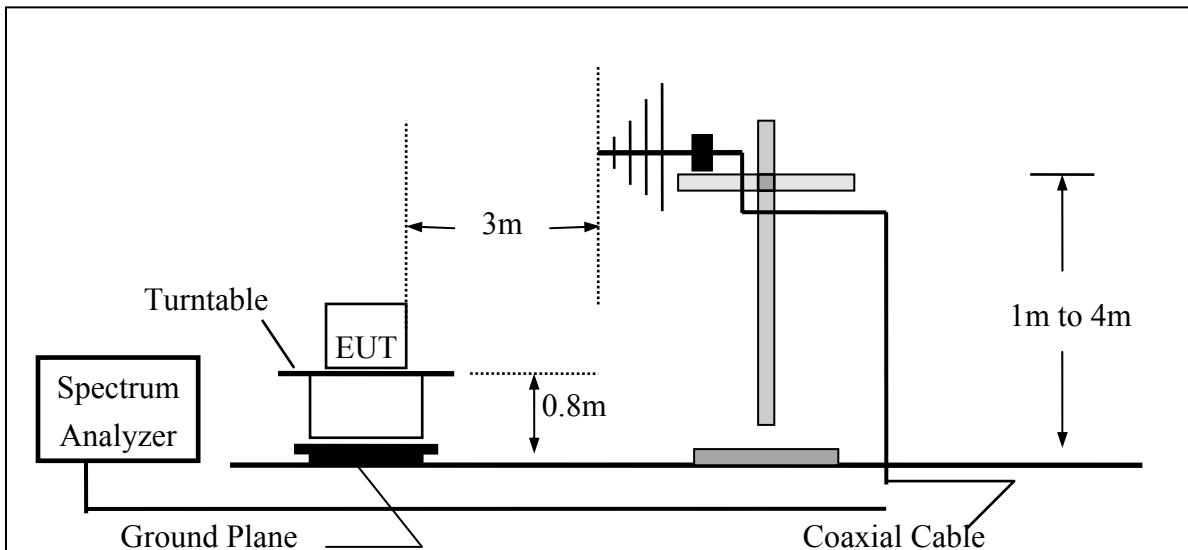
9.3 Measurement Procedure

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.

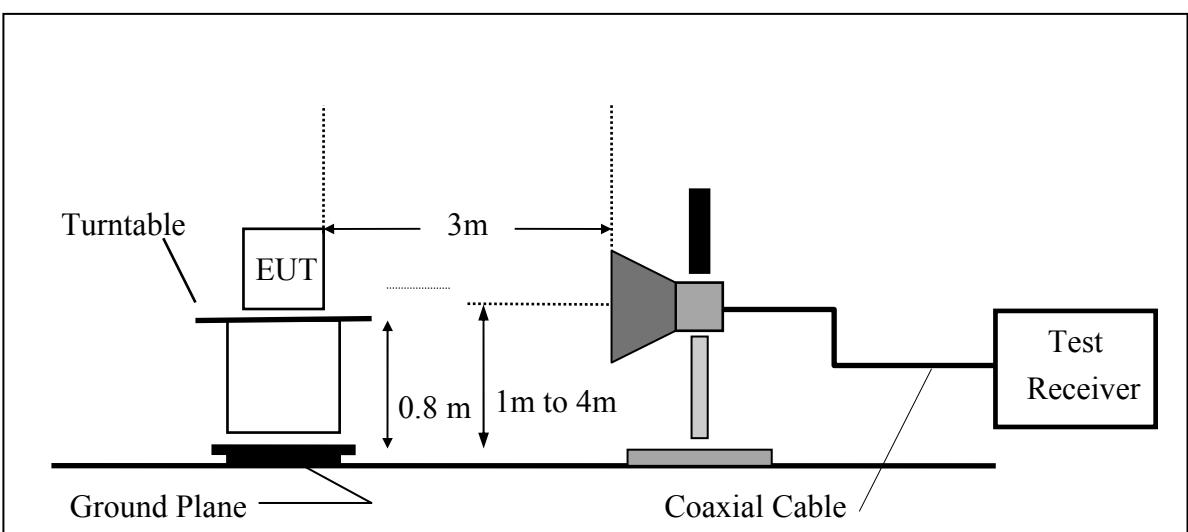
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9.4 Test SET-UP (Block Diagram of Configuration)

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



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



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9.5 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	08/27/2006	08/27/2007
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/27/2007
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2006	06/02/2007
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2006	08/15/2007
Horn antenna	Schwarzbeck	BBHA 9170	184/185	07/04/2006	07/03/2007
Pre-Amplifier	HP	8447D	2944A09469	07/19/2006	07/18/2007
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

9.6 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:

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

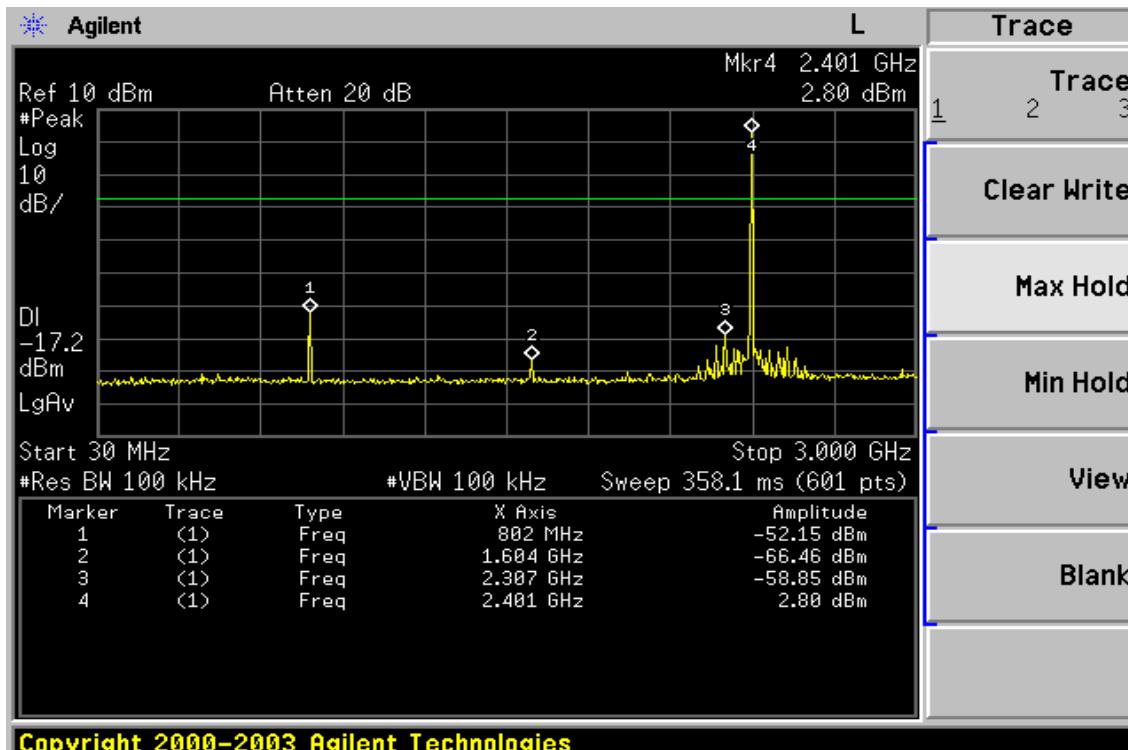
Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude		AG = Amplifier Gain
AF = Antenna Factor		

9.7 Measurement Result

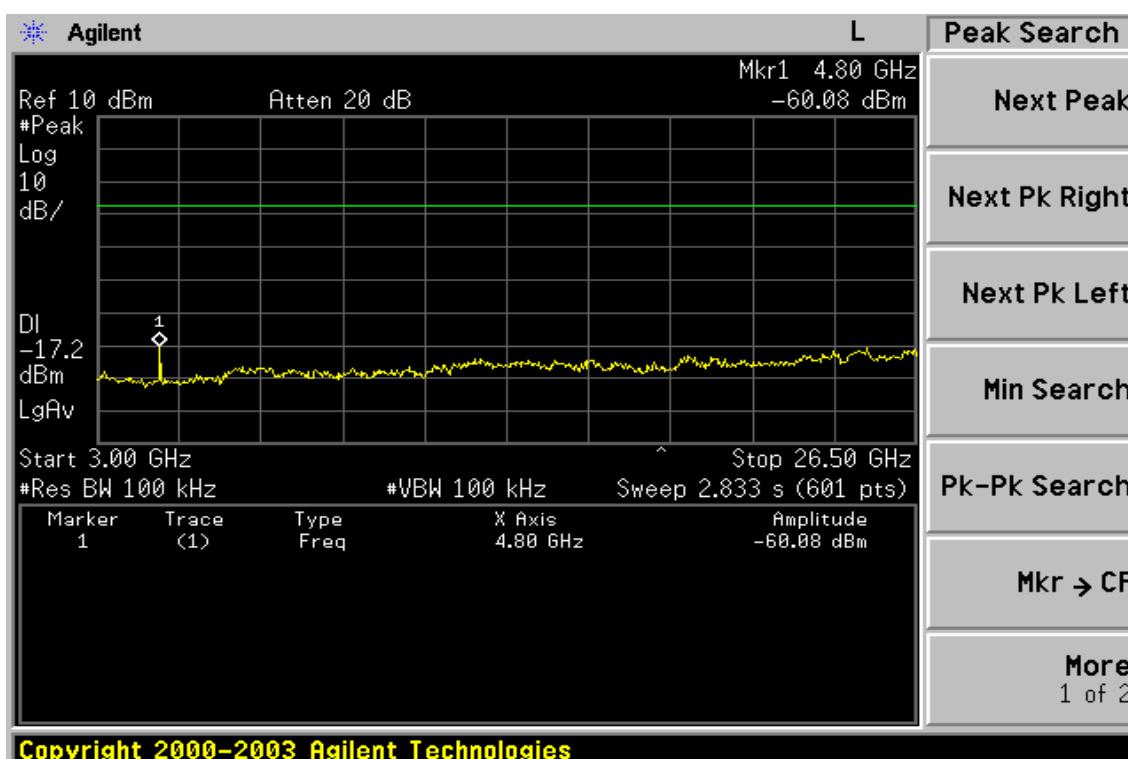
Refer to attach tabular data sheets.

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

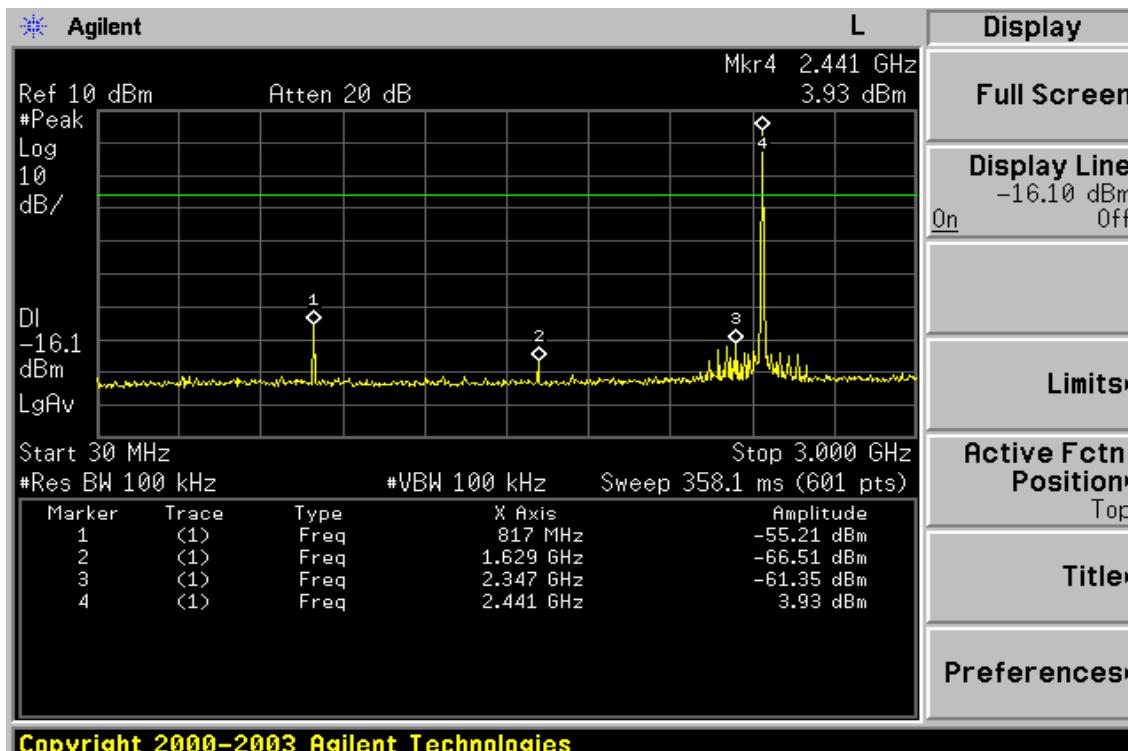


Ch Low 3GHz – 26.5GHz

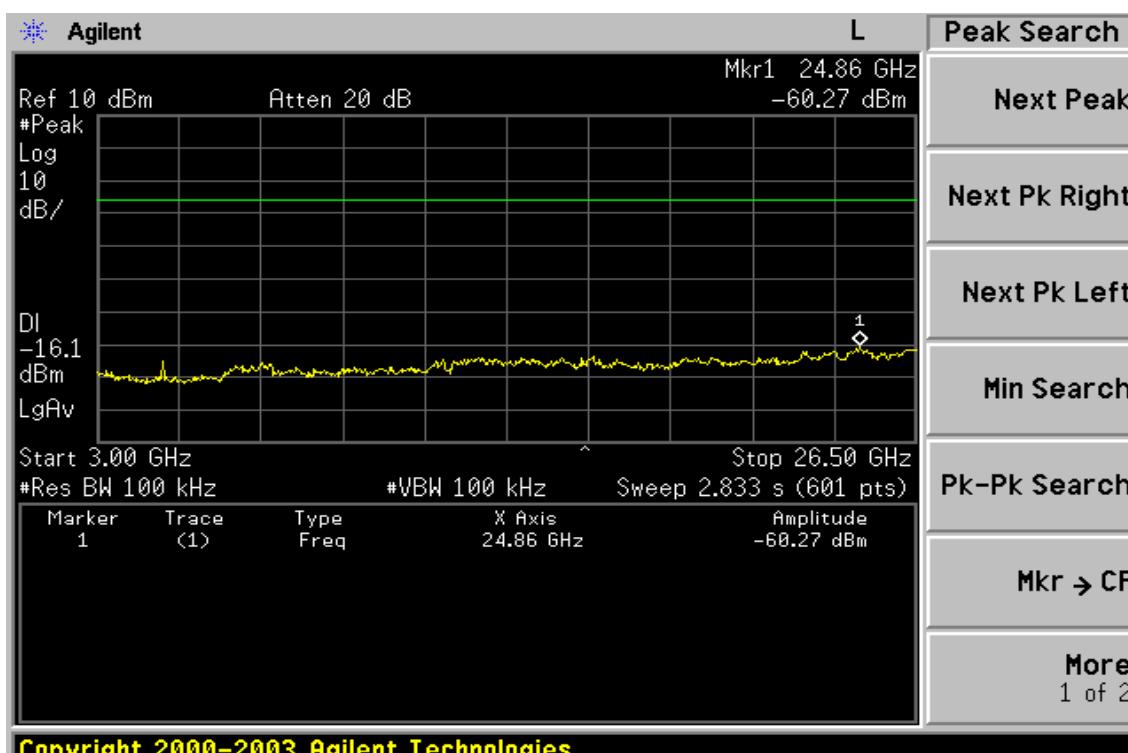


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Ch Mid 30MHz – 3GHz

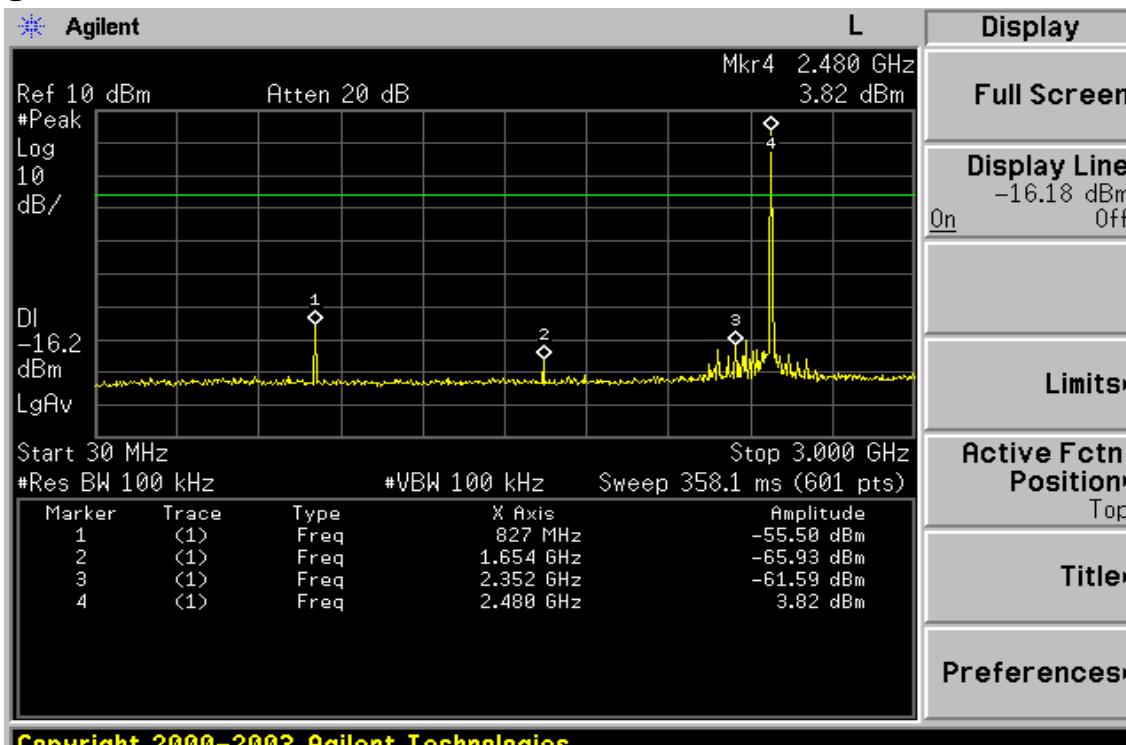


Ch Mid 3GHz – 26.5GHz

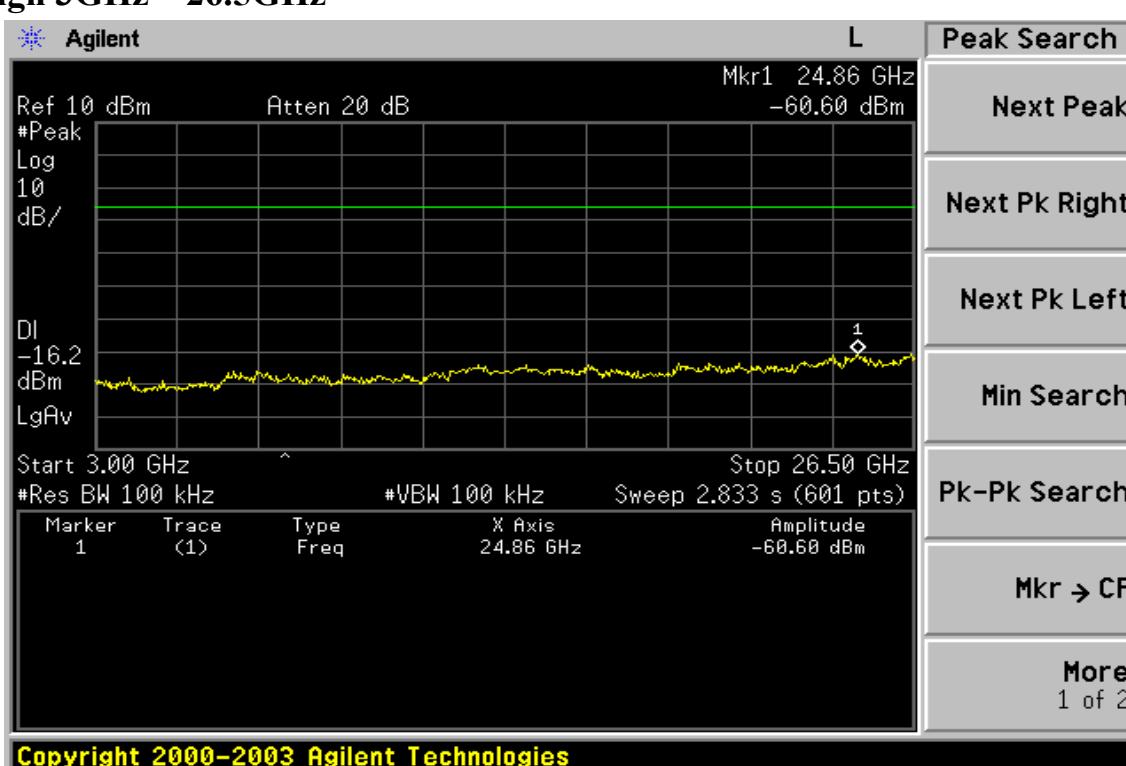


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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH Low	Test Date	Sep. 12, 2006
Fundamental Frequency	2402MHz	Test By	Jason
Temperature	25 °C	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)
30.00	V	Peak	43.05	-14.97	28.08	40.00	-11.92
68.80	V	Peak	41.84	-15.85	25.99	40.00	-14.01
100.81	V	Peak	46.58	-16.94	29.64	43.50	-13.86
112.45	V	Peak	45.74	-16.03	29.71	43.50	-13.79
299.66	V	Peak	48.61	-13.13	35.48	46.00	-10.52
622.67	V	Peak	37.16	-5.53	31.63	46.00	-14.37
34.85	H	Peak	45.23	-14.58	30.65	40.00	-9.35
68.80	H	Peak	45.89	-15.85	30.04	40.00	-9.96
95.96	H	Peak	48.63	-17.21	31.42	43.50	-12.08
299.66	H	Peak	49.47	-13.13	36.34	46.00	-9.66
622.67	H	Peak	38.14	-5.53	32.61	46.00	-13.39
802.12	H	Peak	33.40	-3.00	30.4	46.00	-15.60

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 Sep. 12, 2006
Fundamental Frequency 2441MHz Test By Jason
Temperature 25 °C 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)
32.91	V	Peak	41.97	-14.73	27.24	40.00	-12.76
69.77	V	Peak	43.62	-16.11	27.51	40.00	-12.49
100.81	V	Peak	45.28	-16.94	28.34	43.50	-15.16
112.45	V	Peak	45.61	-16.03	29.58	43.50	-13.92
299.66	V	Peak	48.93	-13.13	35.80	46.00	-10.20
622.67	V	Peak	37.46	-5.53	31.93	46.00	-14.07
32.91	H	Peak	46.19	-14.73	31.46	40.00	-8.54
69.77	H	Peak	46.24	-16.11	30.13	40.00	-9.87
95.96	H	Peak	47.58	-17.21	30.37	43.50	-13.13
103.72	H	Peak	47.54	-16.71	30.83	43.50	-12.67
298.69	H	Peak	49.53	-13.13	36.40	46.00	-9.60
622.67	H	Peak	41.60	-5.53	36.07	46.00	-9.93

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 Sep. 12, 2006
Fundamental Frequency 2480MHz Test By Jason
Temperature 25 °C 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)
32.91	V	Peak	42.31	-14.73	27.58	40.00	-12.42
69.77	V	Peak	42.42	-16.11	26.31	40.00	-13.69
100.81	V	Peak	44.22	-16.94	27.28	43.50	-16.22
112.45	V	Peak	46.02	-16.03	29.99	43.50	-13.51
299.66	V	Peak	48.89	-13.13	35.76	46.00	-10.24
622.67	V	Peak	34.65	-5.53	29.12	46.00	-16.88
32.91	H	Peak	45.58	-14.73	30.85	40.00	-9.15
71.71	H	Peak	46.77	-16.45	30.32	40.00	-9.68
95.96	H	Peak	48.18	-17.21	30.97	43.50	-12.53
112.45	H	Peak	46.34	-16.03	30.31	43.50	-13.19
299.66	H	Peak	48.87	-13.13	35.74	46.00	-10.26
622.67	H	Peak	43.24	-5.53	37.71	46.00	-8.29

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	Sep. 12, 2006
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1604.5	42.59	--	-5.37	37.22	--	74.00	54.00	-16.78 Peak
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= 1MHz, 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 Low	Test Date	Sep. 12, 2006
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1052.0	42.18	--	-7.91	34.27	--	74.00	54.00	-19.73 Peak
1344.5	42.31	--	-6.58	35.73	--	74.00	54.00	-18.27 Peak
1604.5	44.93	--	-5.37	39.56	--	74.00	54.00	-14.44 Peak
4804.0	39.82	--	6.02	45.84	--	74.00	54.00	-8.16 Peak
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= 1MHz, 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	Sep. 12, 2006
Fundamental Frequency	2441 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
1624.0	43.20	--	-5.34	37.86	--	74.00	54.00	-16.14 Peak
4884.0	----							
7326.0	----							
9768.0	----							
12210.0	----							
14652.0	----							
17094.0	----							
19536.0	----							
21978.0	----							
24420.0	----							

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= 1MHz, 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 Mid	Test Date	Sep. 12, 2006
Fundamental Frequency	2441 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1052.0	43.06	--	-7.91	35.15	--	74.00	54.00	-18.85 Peak
1344.5	43.78	--	-6.58	37.20	--	74.00	54.00	-16.80 Peak
1624.0	44.89	--	-5.34	39.55	--	74.00	54.00	-14.45 Peak
4884.0	----							
7326.0	----							
9768.0	----							
12210.0	----							
14652.0	----							
17094.0	----							
19536.0	----							
21978.0	----							
24420.0	----							

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= 1MHz, 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	Sep. 12, 2006
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1650.0	43.44	--	-5.22	38.22	--	74.00	54.00	-15.78 Peak
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= 1MHz, 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	Sep. 12, 2006
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1052.0	42.17	--	-7.91	34.26	--	74.00	54.00	-19.74 Peak
1344.5	41.74	--	-6.58	35.16	--	74.00	54.00	-18.84 Peak
1650.0	42.78	--	-5.22	37.56	--	74.00	54.00	-16.44 Peak
1799.5	40.09	--	-4.47	35.62	--	74.00	54.00	-18.38 Peak
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= 1MHz, 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 (below 1GHz)

Operation Mode	RX CH Low	Test Date	Sep. 12, 2006
Fundamental Frequency	2402MHz	Test By	Jason
Temperature	25 °C	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 Margin (dB)
39.70	V	Peak	42.48	-13.73	28.75	40.00	-11.25
73.65	V	Peak	46.18	-16.79	29.39	40.00	-10.61
100.81	V	Peak	44.53	-16.94	27.59	43.50	-15.91
112.45	V	Peak	42.43	-16.03	26.40	43.50	-17.10
299.66	V	Peak	48.43	-13.13	35.30	46.00	-10.70
622.67	V	Peak	34.90	-5.53	29.37	46.00	-16.63
35.82	H	Peak	45.62	-14.47	31.15	40.00	-8.85
74.62	H	Peak	48.99	-16.96	32.03	40.00	-7.97
95.96	H	Peak	47.95	-17.21	30.74	43.50	-12.76
112.45	H	Peak	45.11	-16.03	29.08	43.50	-14.42
299.66	H	Peak	49.53	-13.13	36.4	46.00	-9.60
622.67	H	Peak	41.80	-5.53	36.27	46.00	-9.73

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 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	RX CH Mid	Test Date	Sep. 12, 2006
Fundamental Frequency	2441MHz	Test By	Jason
Temperature	25°C	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 Margin (dB)
54.25	V	Peak	40.10	-14.51	25.59	40.00	-14.41
69.77	V	Peak	39.79	-16.11	23.68	40.00	-16.32
100.81	V	Peak	45.13	-16.94	28.19	43.50	-15.31
299.66	V	Peak	49.34	-13.13	36.21	46.00	-9.79
333.61	V	Peak	40.14	-12.14	28.00	46.00	-18.00
622.67	V	Peak	35.87	-5.53	30.34	46.00	-15.66
34.85	H	Peak	45.47	-14.58	30.89	40.00	-9.11
71.71	H	Peak	46.32	-16.45	29.87	40.00	-10.13
175.50	H	Peak	40.30	-14.26	26.04	43.50	-17.46
299.66	H	Peak	47.22	-13.13	34.09	46.00	-11.91
496.57	H	Peak	36.43	-8.50	27.93	46.00	-18.07
622.67	H	Peak	37.23	-5.53	31.70	46.00	-14.30

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	RX CH High	Test Date	Sep. 12, 2006
Fundamental Frequency	2480MHz	Test By	Jason
Temperature	25 °C	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 Margin (dB)
39.70	V	Peak	44.32	-13.73	30.59	40.00	-9.41
66.86	V	Peak	41.92	-15.34	26.58	40.00	-13.42
100.81	V	Peak	42.59	-16.94	25.65	43.50	-17.85
299.66	V	Peak	48.76	-13.13	35.63	46.00	-10.37
331.67	V	Peak	42.05	-12.20	29.85	46.00	-16.15
622.67	V	Peak	37.44	-5.53	31.91	46.00	-14.09
34.85	H	Peak	46.66	-14.58	32.08	40.00	-7.92
74.62	H	Peak	50.20	-16.96	33.24	40.00	-6.76
95.96	H	Peak	53.55	-17.21	36.34	43.50	-7.16
299.66	H	Peak	48.40	-13.13	35.27	46.00	-10.73
331.67	H	Peak	43.16	-12.20	30.96	46.00	-15.04
622.67	H	Peak	41.42	-5.53	35.89	46.00	-10.11

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	RX CH Low	Test Date	Sep. 12, 2006
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25°C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	
1591.5	43.41	----	-5.48	37.93	----	74.00	54.00 -16.07 Peak
1754.0	45.70	----	-4.68	41.02	----	74.00	54.00 -12.98 Peak
2397.5	38.53	----	-1.36	37.17	----	74.00	54.00 -16.83 Peak
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= 3MHz, VBW= 1MHz, 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	RX CH Low	Test Date	Sep. 12, 2006
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
1052.0	43.30	---	-7.91	35.39	---	74.00	54.00	-18.61 Peak
1344.5	42.84	---	-6.58	36.26	---	74.00	54.00	-17.74 Peak
1591.5	45.40	---	-5.48	39.92	---	74.00	54.00	-14.08 Peak
1799.6	39.35	---	-4.47	34.88	---	74.00	54.00	-19.12 Peak
2397.5	41.51	---	-1.36	40.15	---	74.00	54.00	-13.85 Peak
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= 3MHz, VBW= 1MHz, 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	RX CH Mid	Test Date	Sep. 12, 2006
Fundamental Frequency	2441 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	
1624.0	43.34	----	-5.30	38.04	----	74.00	54.00 -15.96 Peak
2436.0	39.41	----	-1.19	38.22	----	74.00	54.00 -15.78 Peak
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= 3MHz, VBW= 1MHz, 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	RX CH Mid	Test Date	Sep. 12, 2006
Fundamental Frequency	2441 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65%		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	
1344.5	43.66	----	-6.58	37.08	----	74.00	54.00 -16.92 Peak
1624.0	45.40	----	-5.34	40.06	----	74.00	54.00 -13.94 Peak
2436.5	39.93	----	-1.19	38.74	----	74.00	54.00 -15.26 Peak
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= 3MHz, VBW= 1MHz, 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	RX CH High	Test Date	Sep. 12, 2006
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)		
1650.0	44.48	---	-5.22	39.26	---	74.00	54.00 -14.74 Peak
2469.0	38.09	---	-1.02	37.07	---	74.00	54.00 -16.93 Peak
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= 3MHz, VBW= 1MHz, 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	RX CH High	Test Date	Sep. 12, 2006
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	
1344.5	42.36	---	-6.58	35.78	---	74.00	54.00 -18.22 Peak
1650.0	42.17	---	-5.22	36.95	---	74.00	54.00 -17.05 Peak
2469.0	38.04	---	-1.02	37.02	---	74.00	54.00 -16.98 Peak
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= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

10. FREQUENCY SEPARATION

10.1 Standard Applicable

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the 20dB bandwidth of the hopping channel, whichever is greater.

According to RSS 210 issue 6, A8.1(2), frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

10.2 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 = middle of hopping channel .
4. Set the spectrum analyzer as RBW,VBW=100KHz, Adjust Span to 5 MHz, Sweep = auto.
5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

10.3 Measurement Result

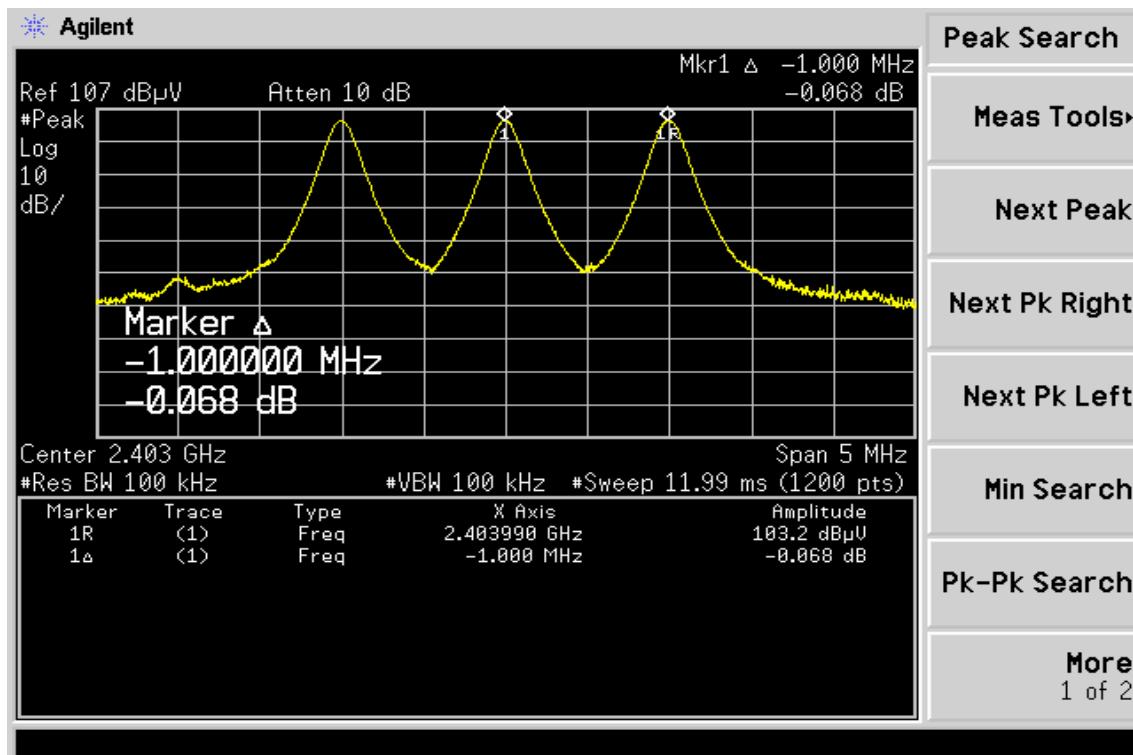
Channel separation (MHz)	Limit	Result
1	>=25KHz or 2/3 times 20dB bandwidth	PASS

10.4 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	11/09/2005	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	Agilent	Power Biviber	51818	01/05/2006	01/04/2007

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Frequency Separation Test Data



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11. NUMBER OF HOPPING FREQUENCY

11.1 Standard Applicable

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

According to RSS-210 issue 6,§A8.4(2), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, the maximum conducted output power shall not exceed 1 W. For all other frequency hopping systems, the maximum peak conducted output power shall not exceed 0.125 W.

11.2 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 spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
4. Set the spectrum analyzer as RBW, VBW=100KHz,
5. Max hold, view and count how many channel in the band.

11.3 Measurement Result

Refer to next page for the plots.

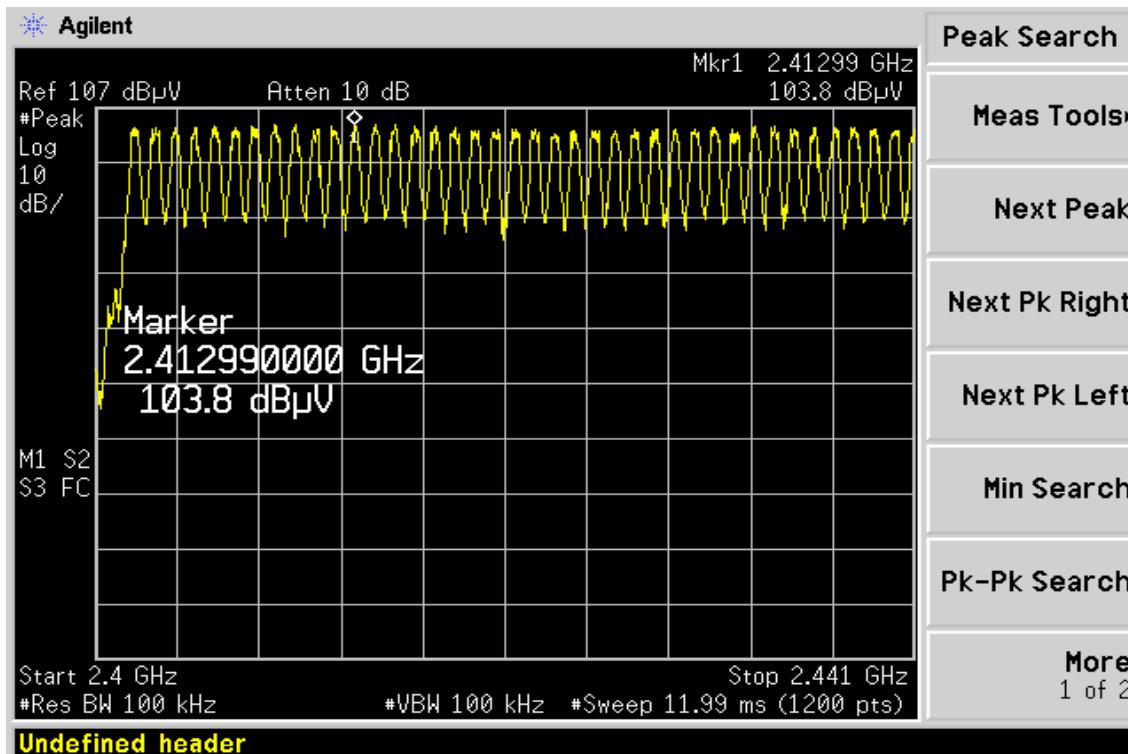
11.4 Measurement Equipment Used:

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	11/09/2005	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	Agilent	Power Biviber	51818	01/05/2006	01/04/2007

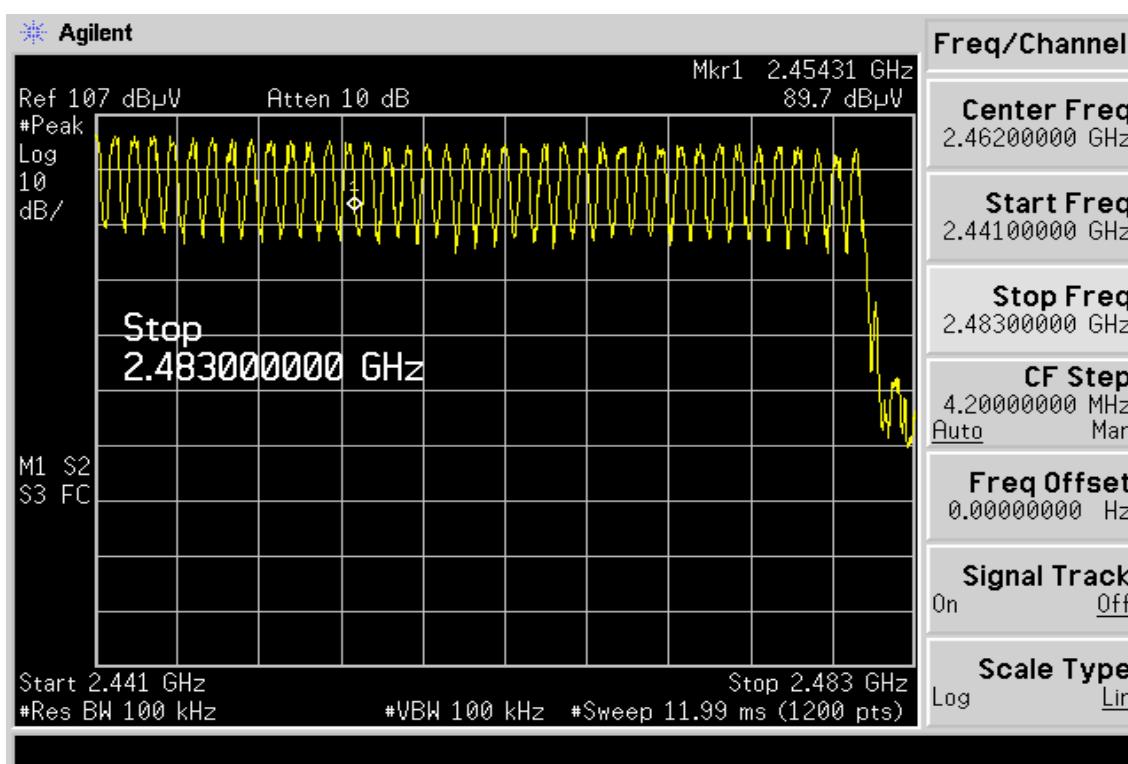
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Channel Number

2.4 GHz – 2.441GHz



2.441 GHz – 2.4835GHz



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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. Standard Applicable

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

According to RSS-210 issue 6,§A8.1(4), Frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that a minimum of 15 hopping channels are used.

12.2. 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=1MHz,VBW=3MHz, Span = 0Hz , Sweep = Auto.
5. Repeat above procedures until all frequency measured were complete.

12.3. Measurement Result

$$\text{A period time} = 0.4 \text{ (ms)} * 79 = 31.6 \text{ (s)}$$

CH Low: DH1 time slot = $0.405 \text{ (ms)} * (1600/(1*79)) * 31.6 = 259.1 \text{ (ms)}$

 DH3 time slot = $1.675 \text{ (ms)} * (1600/(3*79)) * 31.6 = 357.2 \text{ (ms)}$

 DH5 time slot = $2.925 \text{ (ms)} * (1600/(5*79)) * 31.6 = 374.3 \text{ (ms)}$

CH Mid: DH1 time slot = $0.405 \text{ (ms)} * (1600/(1*79)) * 31.6 = 259.1 \text{ (ms)}$

 DH3 time slot = $1.675 \text{ (ms)} * (1600/(3*79)) * 31.6 = 357.2 \text{ (ms)}$

 DH5 time slot = $2.906 \text{ (ms)} * (1600/(5*79)) * 31.6 = 371.9 \text{ (ms)}$

CH High: DH1 time slot = $0.416 \text{ (ms)} * (1600/(1*79)) * 31.6 = 266.1 \text{ (ms)}$

 DH3 time slot = $1.662 \text{ (ms)} * (1600/(3*79)) * 31.6 = 354.5 \text{ (ms)}$

 DH5 time slot = $2.906 \text{ (ms)} * (1600/(5*79)) * 31.6 = 371.9 \text{ (ms)}$

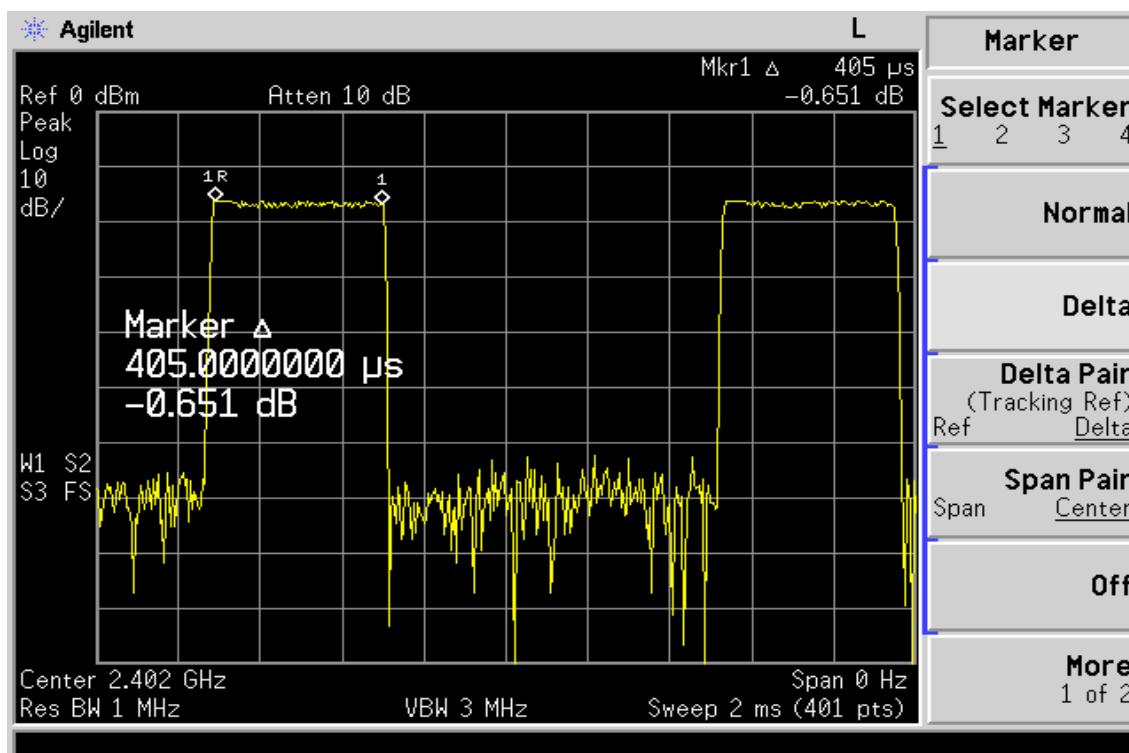
12.4. Measurement Equipment Used:

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	11/09/2005	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	Agilent	Power Biviber	51818	01/05/2006	01/04/2007

Dwell Time Test Data

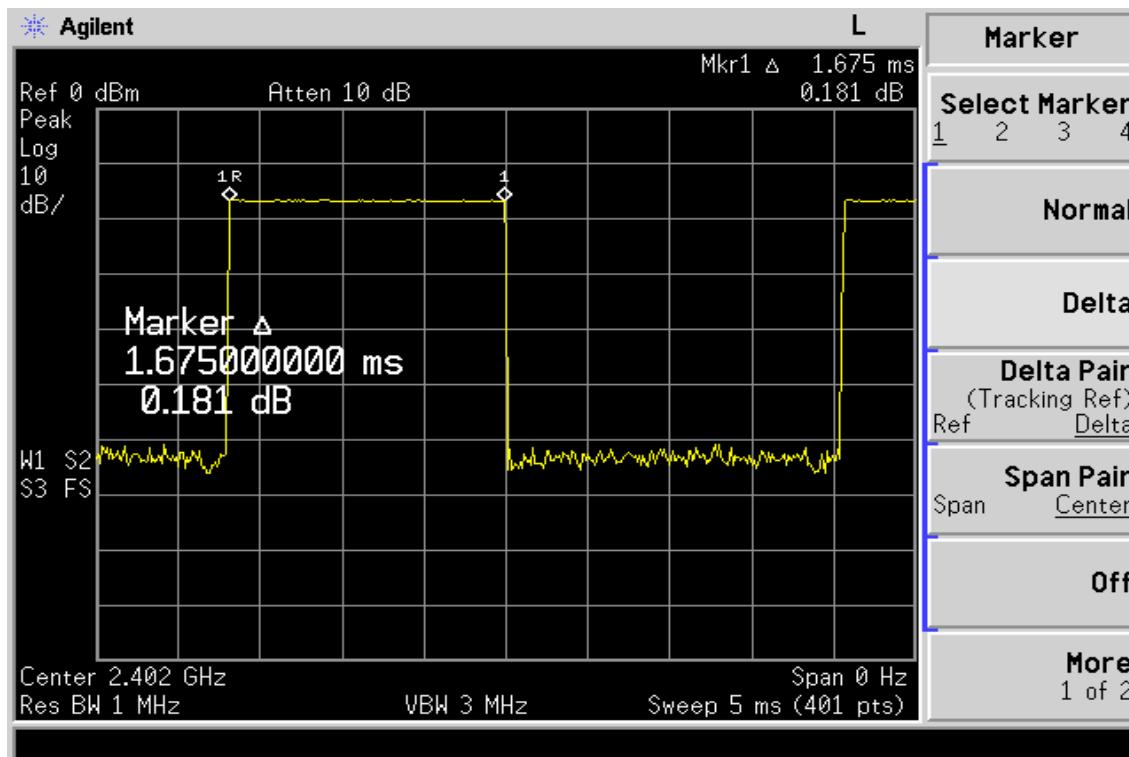
CH-Low

DH1

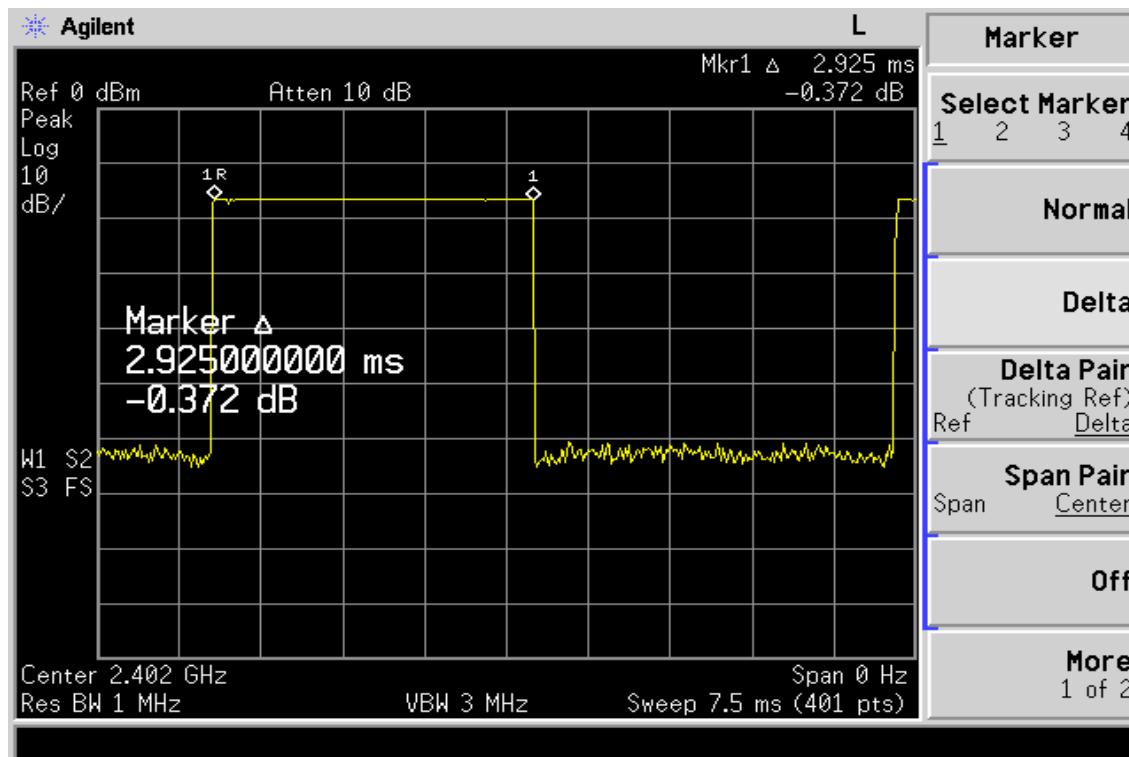


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DH3



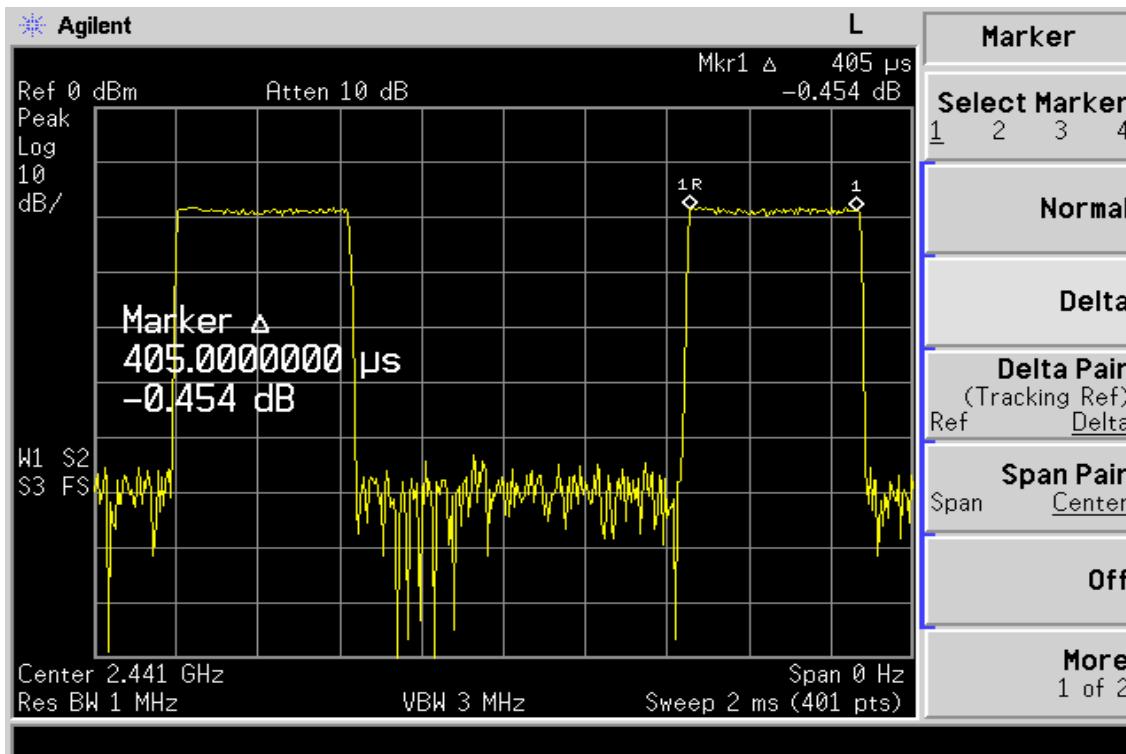
DH5



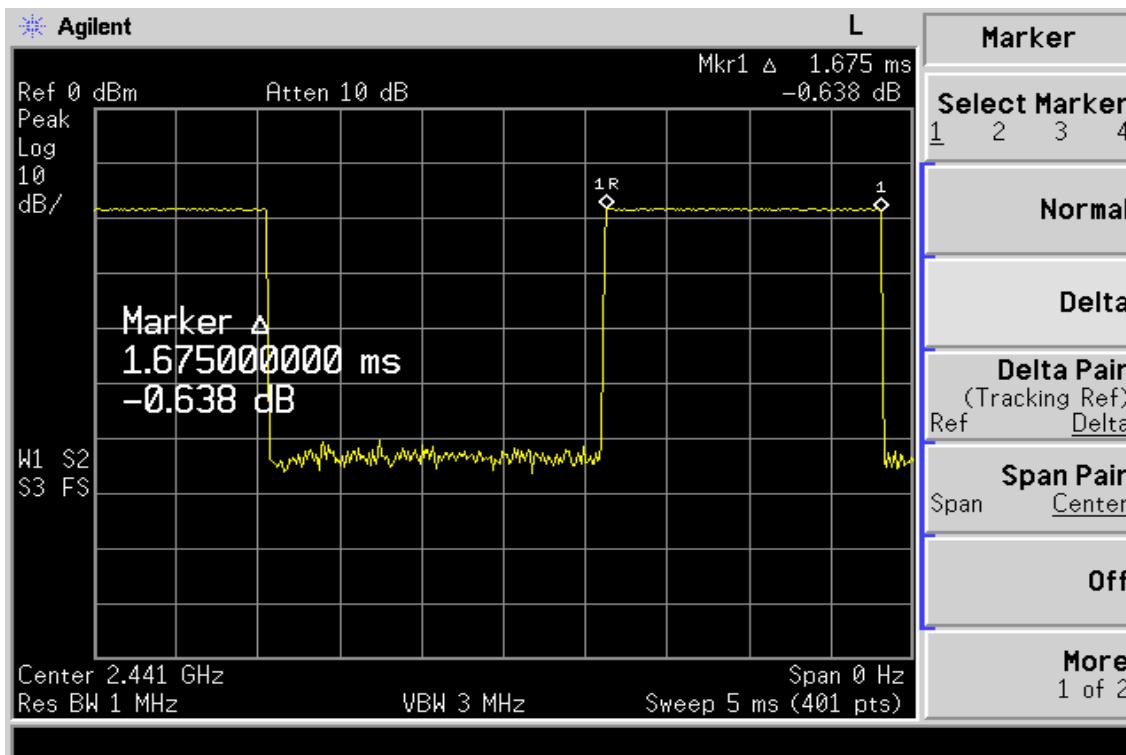
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CH-Mid

DH1

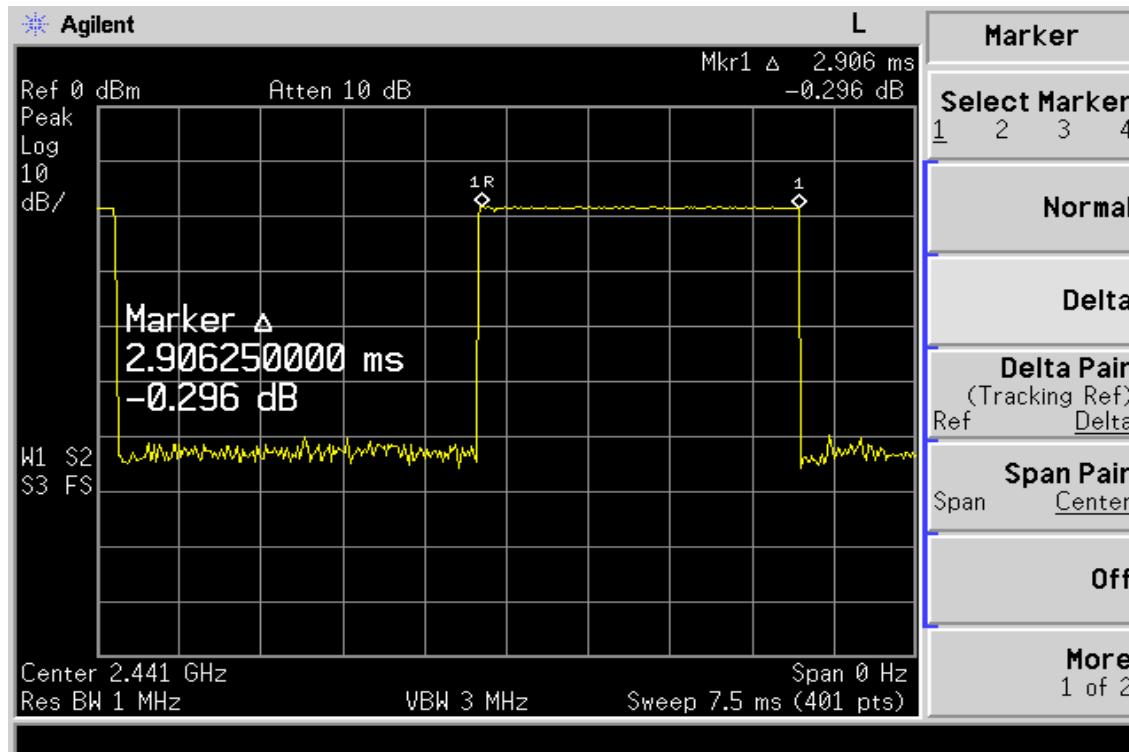


DH3



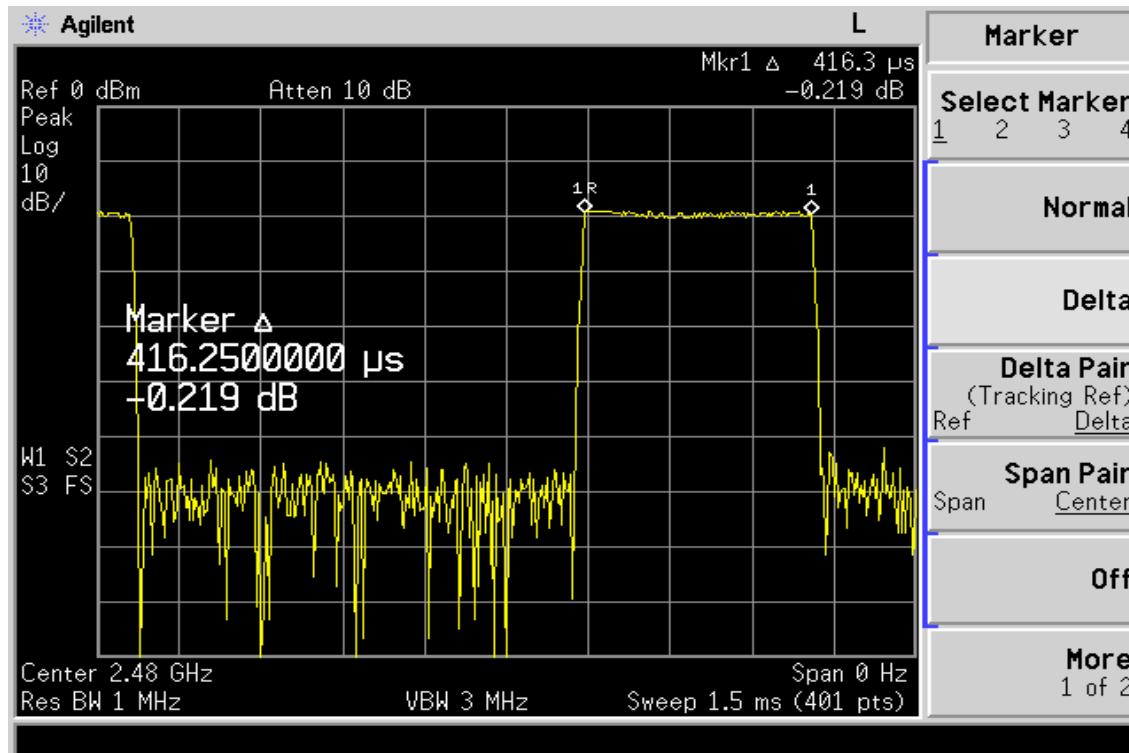
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DH5



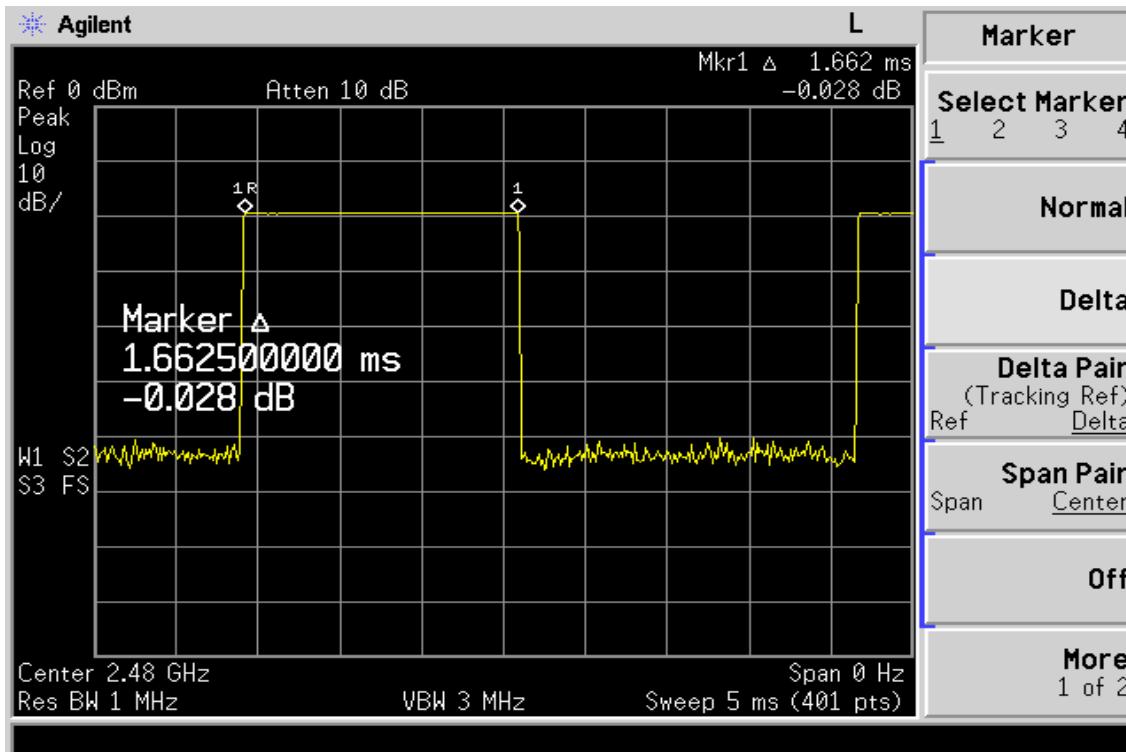
CH-High

DH1

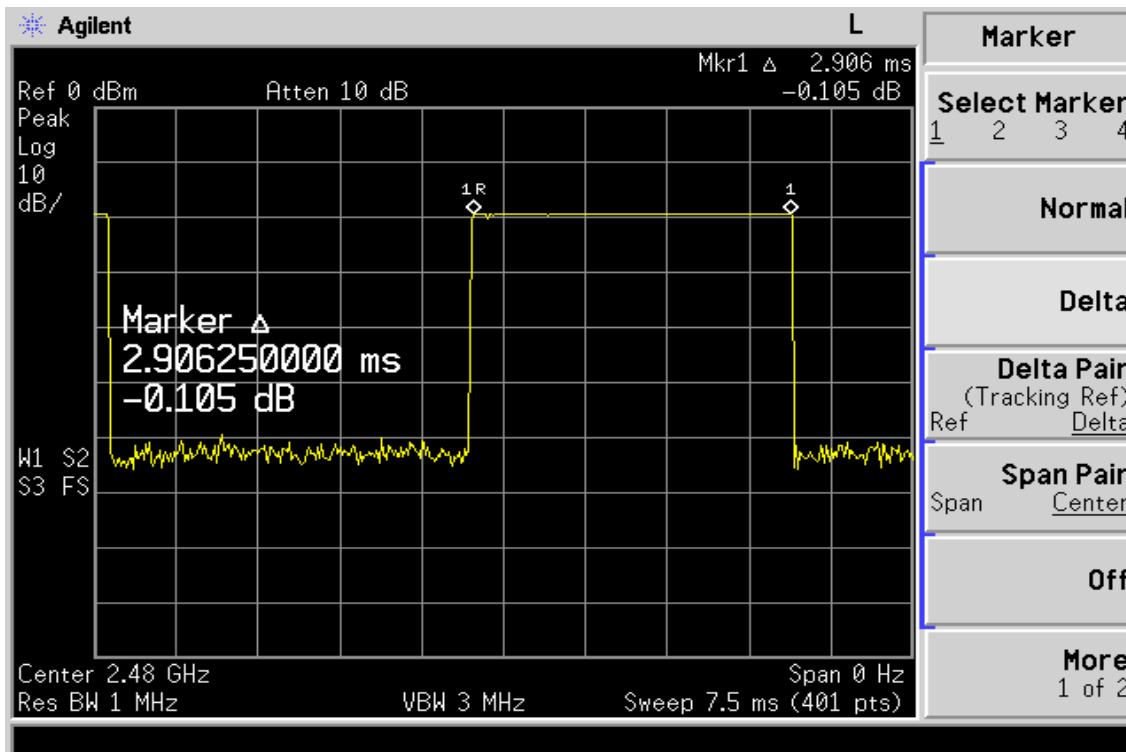


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DH3



DH5



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13. Peak Power Spectral Density

13.1. Standard Applicable

According to §15.247(d), for direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3kHz band during any time interval of continuous transmission.

According to RSS-210 issue 6, §A8.2(2) and §A8.3(2), The transmitter power spectral density (into the antenna) shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0-second duration.

13.2. 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 the spectrum analyzer as RBW = 3KHz, VBW = 10KHz, Span = 1.5MHz, Sweep=100s
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

13.3. Measurement Result

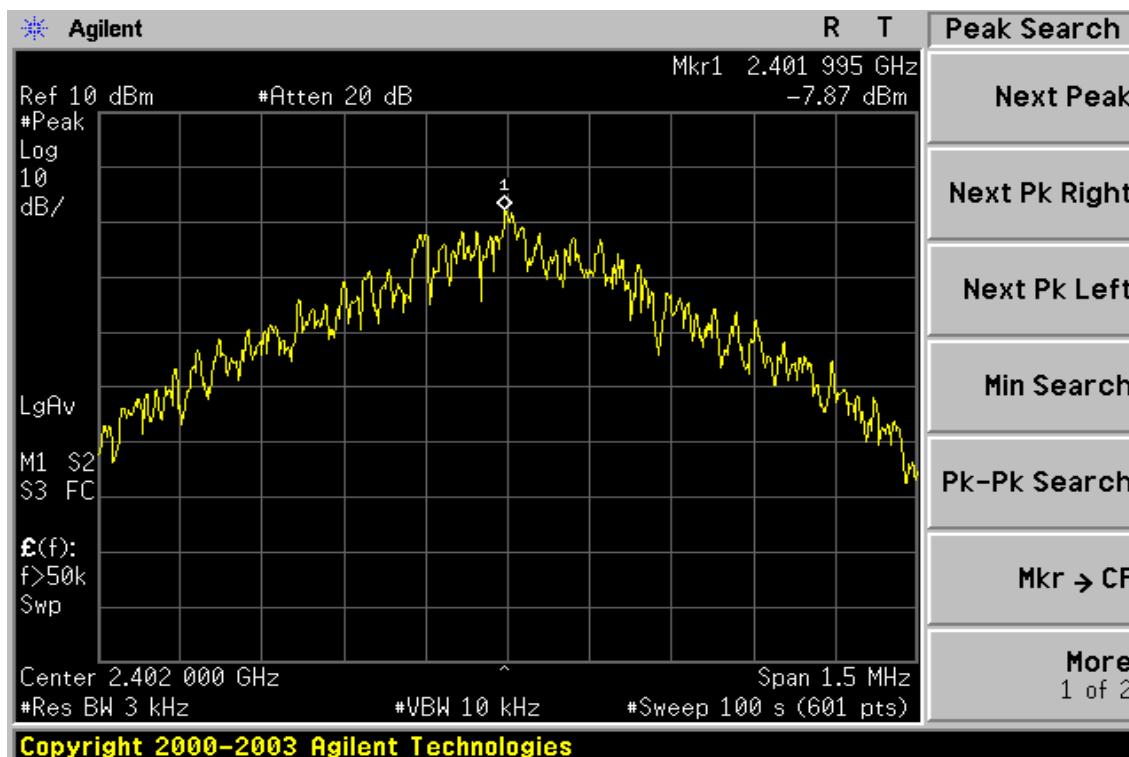
CH	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-7.87	0.10	-7.77	8
Mid	-7.07	0.10	-6.97	8
High	-7.11	0.10	-7.01	8

13.4. Measurement Equipment Used:

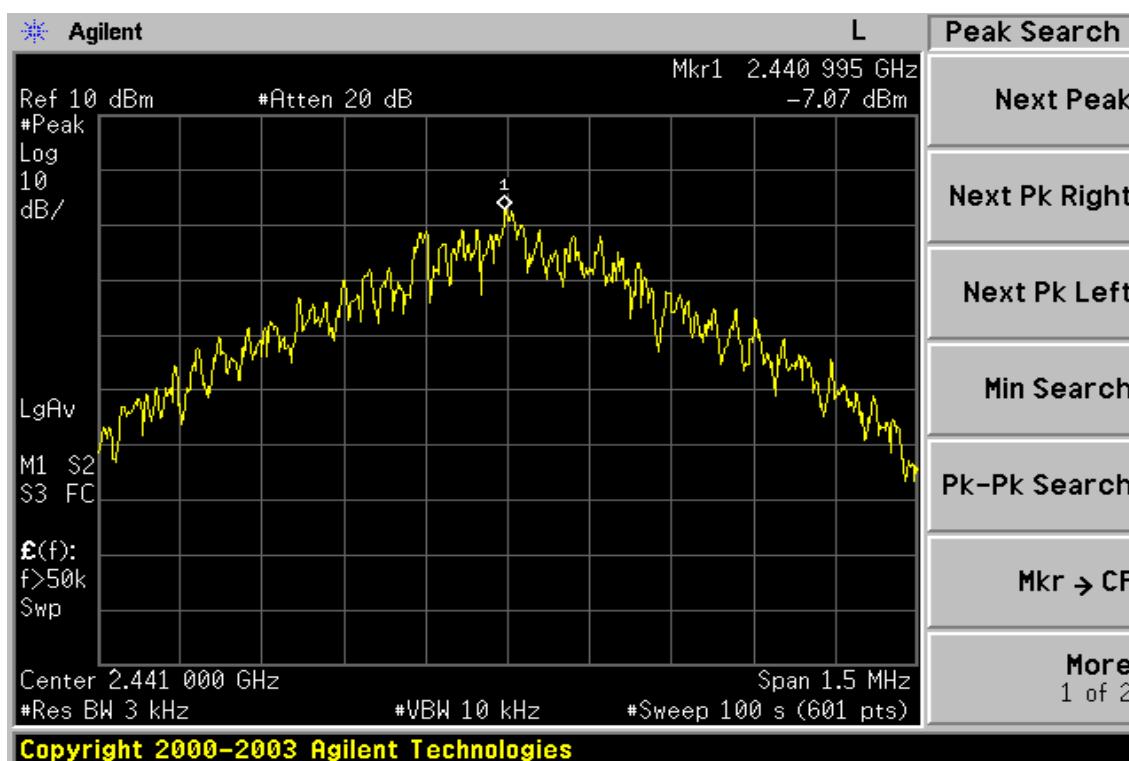
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Agilent	Power Biviber	51818	01/05/2006	01/04/2007

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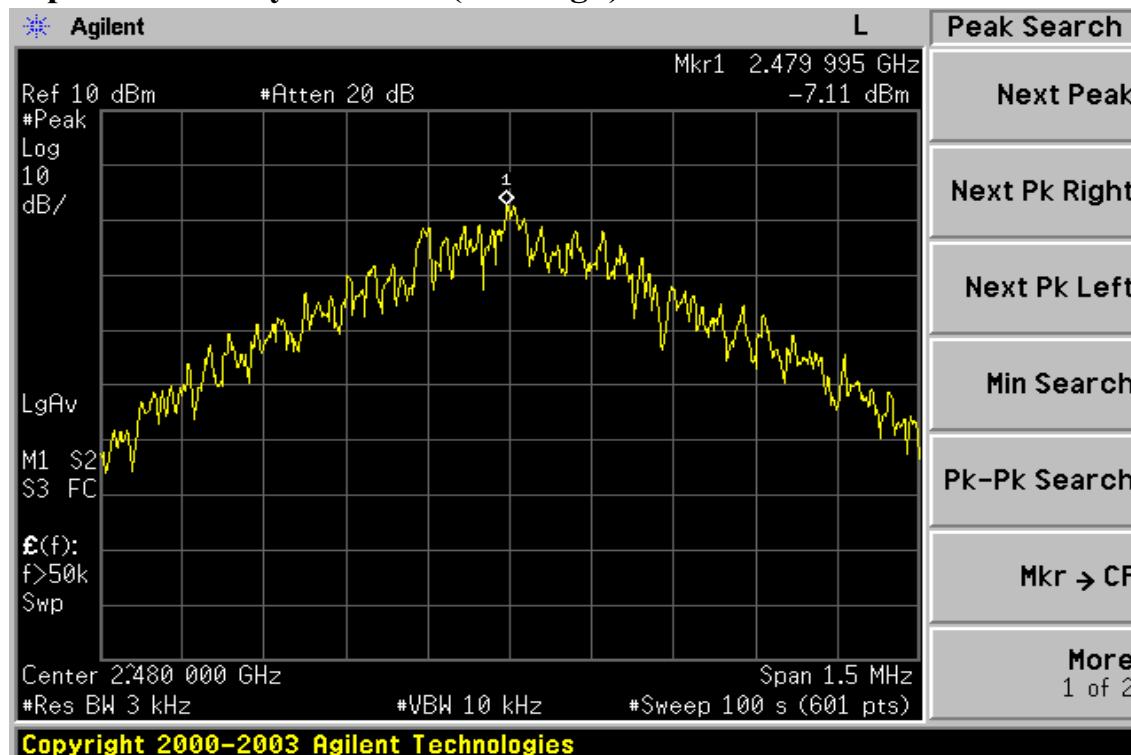
Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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Power Spectral Density Test Plot (CH-High)

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14. 99% Bandwidth Measurement

14.1. Standard Applicable

RSS-Gen §4.4.1, the transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

The span between the two recorded frequencies is the occupied bandwidth.

14.2. 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	11/09/2005	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	Agilent	Power Biviber	51818	01/05/2006	01/04/2007

14.3. Test Set-up:

Refer to section 2.4.

14.4. Measurement Procedure

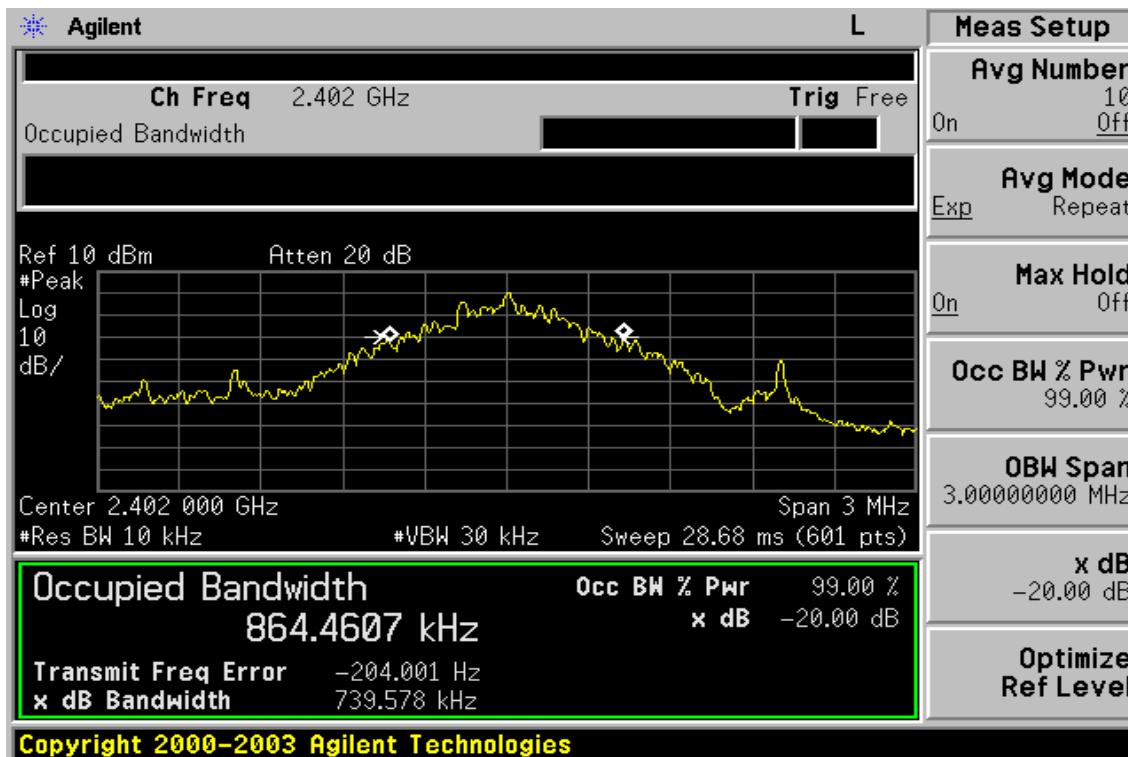
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=1% of the approximate emission bandwidth, VBW = 3 times RBW, Span= approximately 20dB below the peak level. Sweep=auto
4. Turn on the 99% bandwidth function, max reading..
5. Repeat above procedures until all frequency measured were complete.

14.5. Measurement Result

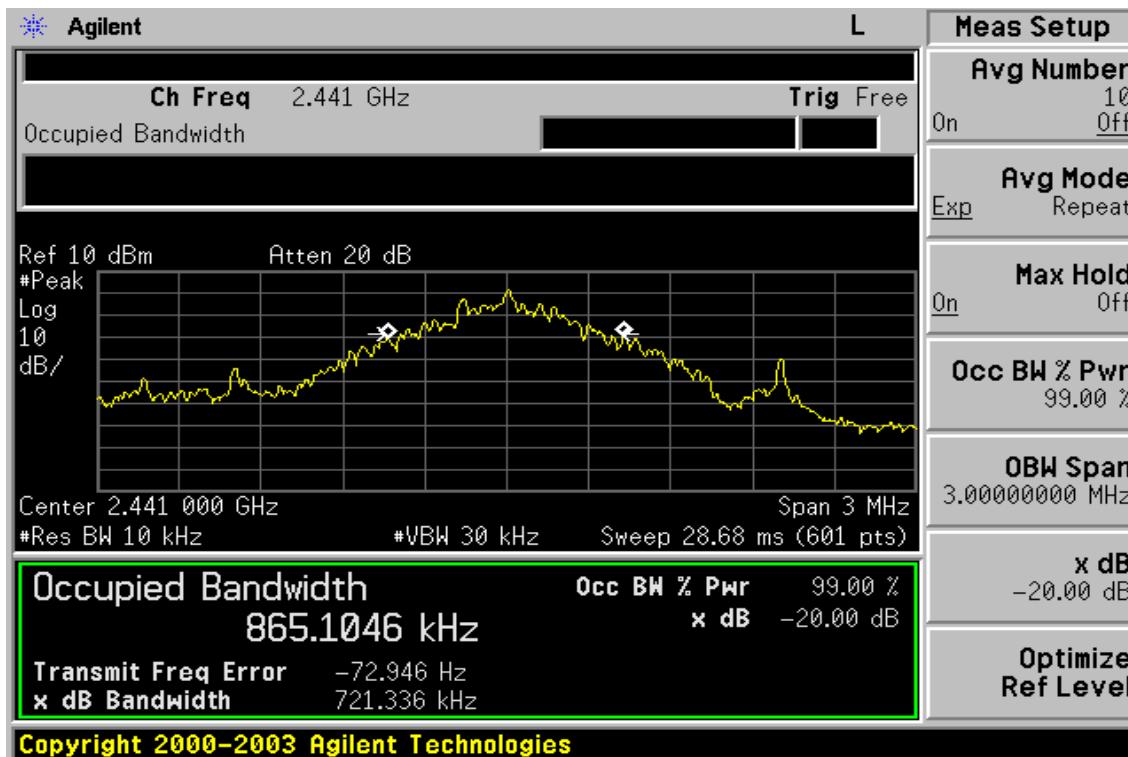
CH	Bandwidth (kHz)
Lower	864.4607
Mid	865.1046
Higher	862.2232

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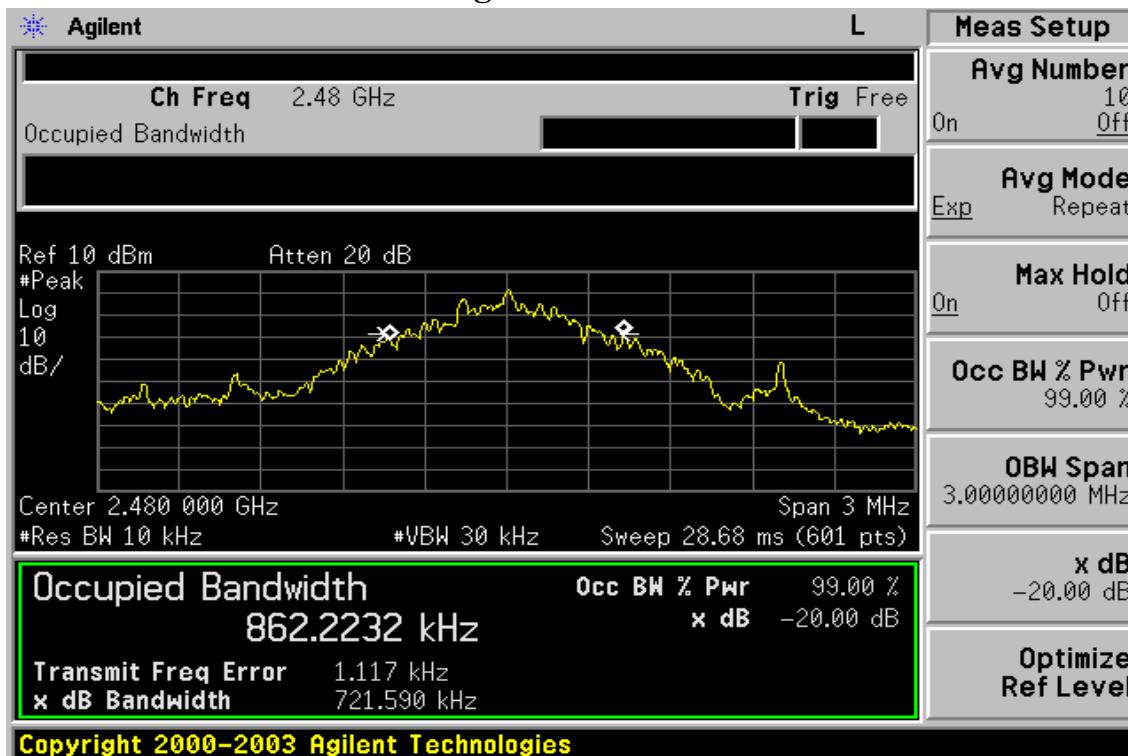
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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99% Band Width Test Data CH-High

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15. ANTENNA REQUIREMENT

15.1. Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

And according to §15.246(1), if transmitting antennas of directional gain greater than 6dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS-GEN 7.1.4, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest-gain antenna of each combination of transmitter and antenna type for which certification is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type and having equal or lesser gain as an antenna that had been successfully tested for certification with the transmitter, will also be considered certified with the transmitter, and may be used and marketed with the transmitter. The manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. Any antenna gain in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power before using the power limits specified in RSS-210 or RSS-310 for devices of RF output powers of 10 milliwatts or less. For devices of output powers greater than 10 milliwatts, except devices subject to RSS-210 Annex 8 (Frequency Hopping and Digital Modulation Systems Operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz Bands) or RSS-210 Annex 9 (Local Area Network Devices), the total antenna gain shall be added to the measured RF output power before using the specified power limits. For devices subject to RSS-210 Annex 8 or Annex 9, the antenna gain shall not be added.

15.2. Antenna Connected Construction

The directional gins of antenna used for transmitting is 2 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

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