

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Bluetooth Stereo Headset

Brand Name: G-Star Industrial Co.,LTD , Genius

Model Name: BT-003 , BT-007(BT-02N)

FCC ID: UDQ-BT003

Report No.: ER/2006/40013

Issue Date: Aug. 28, 2006

FCC Rule Part: §15.247

Prepared for: G-Star Industrial CO., LTD.
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R.O.C.

Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: G-Star Industrial CO., LTD.
7F-15, NO.16, Lane 609, Sec. 5, Chung Hsin Road, San Chung City,
Taipei, Taiwan, R.O.C.

Equipment Under Test: Bluetooth Stereo Headset

Brand Name: G-Star Industrial Co.,LTD , Genius

FCC ID Number: UDQ-BT003

Model No.: BT-003 , BT-007(BT-02N)

Model Difference: Variant in exterior looks.

File Number: ER/2006/40013

Date of test: Apr. 21, 2006 ~ Aug. 25, 2006

Date of EUT Received: Apr. 20, 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 15.247

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

Test By:	<u>Jason Wu</u> Jason Wu	Date	<u>Aug. 28, 2006</u>
Prepared By:	<u>Gigi Yeh</u> Gigi Yeh	Date	<u>Aug. 28, 2006</u>
Approved By:	<u>Vincent Su</u> Vincent Su	Date	<u>Aug. 28, 2006</u>

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Version

Version No.	Date
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1. GENERAL INFORMATION

1.1. Product Description

The G-Star Industrial CO., LTD. Model: BT-003 , BT-007(BT-02N)is Bluetooth Headset.

The EUT is compliance with Bluetooth Headset.

A major technical descriptions of EUT is described as following:

A). Operation Frequency: 2402 – 2480MHz, 79 channels

B). Rated output power: 3.77 dBm

C). Modulation type: Frequency Hopping Spread Spectrum (FHSS)

D). Antenna Designation: Trace Antenna, -2.58dBi, Non-User Replaceable (Fixed)

E). Power Supply : 5Vdc from AC/DC Power Adaptor or 5Vdc from USB port.
Model: GPE051-050030-1

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

This submittal(s) (test report) is intended for FCC ID: **UDQ-BT003** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rule. The composite system (Digital device) is compliance with Subpart B is authorized under a Doc procedure.

1.3. Test Methodology

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

1.4. Test Facility

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

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

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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 (Fixed channel)

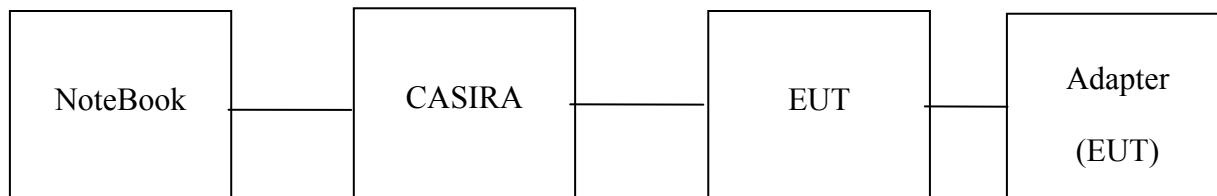


Fig. 2-2 Conductuon of Tested System

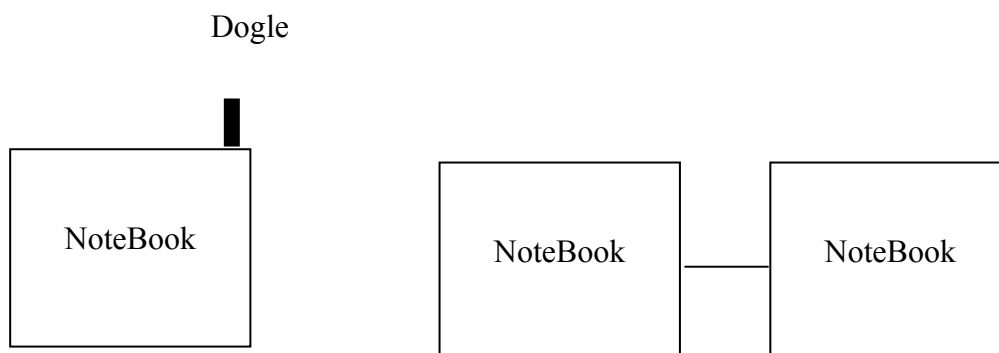


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.	Data Cable	Power Cord
1.	Notebook	Compaq	Presalo 2100	N/A	CNF345Q1R	120cm , shielded	Un-shield
2.	CASIRA	CSR	BCES301199/1	N/A	715856	N/A	N/A
3.	Dongle	PCI	BT-01UD2	N/A	33DC10075	N/A	N/A
4.	Test software	BlueSuite 1.22	CSR	Version1.22	N/A	N/A	N/A

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SUMMARY OF TEST RESULTS

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

3. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

Channel low (2402MHz) 、mid (2441MHz) and high (2480MHz) with highest data rate are chosen for full testing.

The Radiated Spurious Emission was performed at X. Y. and Z. axle. The worst case. Y axle was reported.

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

4. CONDUCTED EMISSION TEST

5.1. Standard Applicable

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

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		
1.The lower limit shall apply at the transition frequencies		
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

5.2. EUT Setup

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

5.3. Measurement Procedure

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

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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	09/02/2005	09/03/2006
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2006	06/10/2007
Transient Limiter	HP	11947A	3107A02062	09/02/2005	09/03/2006
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	12/01/2006

5.5. Measurement Result

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

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation Charging for Adapter			Test Date:	May. 26, 2006
Temperature:	26 °C	Humidity:	63 %	Test By:	Jason

FREQ MHz	Q.P. Raw dBuV	AVG Raw dBuV	Q.P. Limit dBuV	AVG Limit dBuV	Q.P. Margin dB	AVG Margin dB	NOTE
0.308	49.83	42.29	60.02	50.02	-10.19	-7.73	L1
0.370	50.13	42.79	58.50	48.50	-8.37	-5.71	L1
0.419	47.74	42.22	57.48	47.48	-9.74	-5.26	L1
0.739	45.89	38.11	56.00	46.00	-10.11	-7.89	L1
0.801	45.96	38.87	56.00	46.00	-10.04	-7.13	L1
2.340	44.57	36.56	56.00	46.00	-11.43	-9.44	L1
0.308	47.01	---	60.02	50.02	-13.01	---	L2
0.370	47.50	44.45	58.50	48.50	-11.00	-4.05	L2
0.420	48.44	43.60	57.46	47.46	-9.02	-3.86	L2
0.800	43.51	---	56.00	46.00	-12.49	---	L2
1.787	43.61	---	56.00	46.00	-12.39	---	L2
2.402	46.20	39.87	56.00	46.00	-9.80	-6.13	L2

Remark :

- (1) Measuring frequencies from 0.15 MHz to 30MHz °
- (2) The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Qusia-Peak detector and Average detector.
- (3) “---” denotes the emission level was or more than 2dB below the Average limit, so no re-check anymore.
- (4) The IF bandwidth of SPA between 0.15MHz to 30MHz was 10KHz;
The IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9KHz;
- (5) L1 = Line One (Hot side) / L2 = Line Two (Neutral side)

Conducted Emission Test Plot

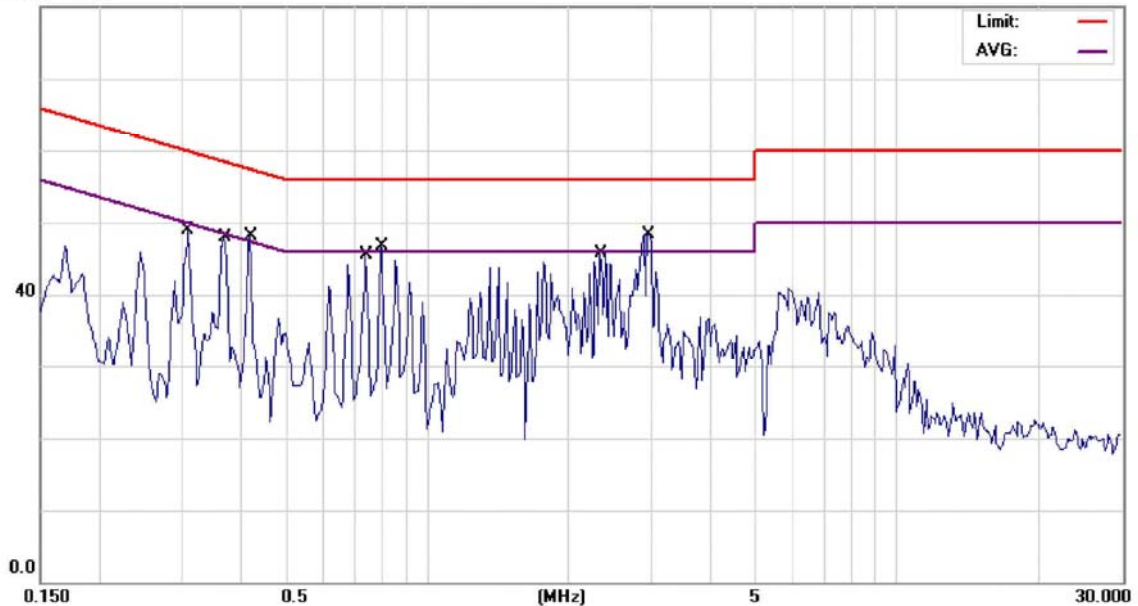
Conducted Emission Measurement

File :ER-2006-40013

Date: 2006/5/26

Time: 下午 05:28:50

80.0 dBuV



Site SGS CONDUCTED #1

Phase: L1

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 63 %

EUT: BT Headset

Air Pressure: hpa

M/N: BT-003

Note: Operation + Charging for Adapter

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3083	39.19	10.64	49.83	60.02	-10.19	QP	
2		0.3083	31.65	10.64	42.29	50.02	-7.73	AVG	
3		0.3700	39.47	10.66	50.13	58.50	-8.37	QP	
4		0.3700	32.13	10.66	42.79	48.50	-5.71	AVG	
5		0.4186	37.05	10.69	47.74	57.48	-9.74	QP	
6	*	0.4186	31.53	10.69	42.22	47.48	-5.26	AVG	
7		0.7385	35.31	10.58	45.89	56.00	-10.11	QP	
8		0.7385	27.53	10.58	38.11	46.00	-7.89	AVG	
9		0.8006	35.41	10.55	45.96	56.00	-10.04	QP	
10		0.8006	28.32	10.55	38.87	46.00	-7.13	AVG	
11		2.3401	34.04	10.53	44.57	56.00	-11.43	QP	
12		2.3401	26.03	10.53	36.56	46.00	-9.44	AVG	

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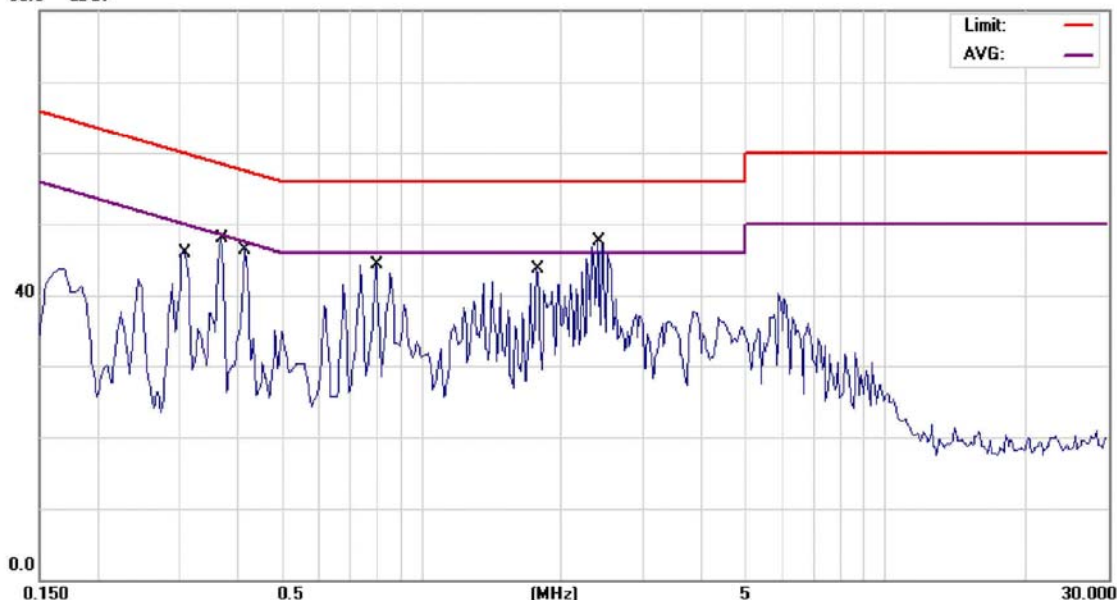
Conducted Emission Measurement

File : ER-2006-40013

Date: 2006/5/26

Time: 下午 05:21:42

80.0 dBuV



Site SGS CONDUCTED #1

Phase: N

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 63 %

EUT: BT Headset

Air Pressure: hpa

M/N: BT-003

Note: Operation + Charging for Adapter

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3083	36.37	10.64	47.01	60.02	-13.01	QP	
2		0.3083	33.50	10.64	44.14	50.02	-5.88	AVG	
3		0.3700	36.84	10.66	47.50	58.50	-11.00	QP	
4		0.3700	33.79	10.66	44.45	48.50	-4.05	AVG	
5		0.4196	37.75	10.69	48.44	57.46	-9.02	QP	
6	*	0.4196	32.91	10.69	43.60	47.46	-3.86	AVG	
7		0.7996	32.96	10.55	43.51	56.00	-12.49	QP	
8		0.7996	30.64	10.55	41.19	46.00	-4.81	AVG	
9		1.7871	33.12	10.49	43.61	56.00	-12.39	QP	
10		1.7871	28.75	10.49	39.24	46.00	-6.76	AVG	
11		2.4016	35.66	10.54	46.20	56.00	-9.80	QP	
12		2.4016	29.33	10.54	39.87	46.00	-6.13	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation Charging for PC			Test Date:	May. 26, 2006
Temperature:	26 °C	Humidity:	63 %	Test By:	Jason

FREQ MHz	Q.P. Raw dBuV	AVG Raw dBuV	Q.P. Limit dBuV	AVG Limit dBuV	Q.P. Margin dB	AVG Margin dB	NOTE
0.162	45.81	---	65.37	55.37	-19.56	---	L1
0.419	47.01	44.69	57.46	47.46	-10.45	-2.77	L1
1.502	41.03	---	56.00	46.00	-14.97	---	L1
2.440	41.05	---	56.00	46.00	-14.95	---	L1
3.080	43.69	---	56.00	46.00	-12.31	---	L1
3.278	44.55	34.01	56.00	46.00	-11.45	-11.99	L1
0.170	45.26	---	64.96	54.96	-19.70	---	L2
0.250	41.62	44.45	61.76	51.76	-20.14	-7.31	L2
0.418	47.45	44.91	57.49	47.49	-10.04	-2.58	L2
1.540	41.88	---	56.00	46.00	-14.12	---	L2
2.460	39.76	---	56.00	46.00	-16.24	---	L2
3.197	43.98	39.87	56.00	46.00	-12.02	-6.13	L2

Remark :

- (1) Measuring frequencies from 0.15 MHz to 30MHz °
- (2) The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Qusia-Peak detector and Average detector.
- (3) “---” denotes the emission level was or more than 2dB below the Average limit, so no re-check anymore.
- (4) The IF bandwidth of SPA between 0.15MHz to 30MHz was 10KHz;
The IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9KHz;
- (5) L1 = Line One (Hot side) / L2 = Line Two (Neutral side)

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Conducted Emission Test Plot

Conducted Emission Measurement

File :ER-2006-40013

Date: 2006/5/26

Time: 下午 05:38:06

80.0 dBuV



Site SGS CONDUCTED #1

Phase: L1

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 63 %

EUT: BT Headset

Air Pressure: hpa

M/N: BT-003

Note: Operation + Charging for PC

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1618	35.27	10.54	45.81	65.37	-19.56	QP	
2		0.1618	28.32	10.54	38.86	55.37	-16.51	AVG	
3		0.4193	36.32	10.69	47.01	57.46	-10.45	QP	
4	*	0.4193	34.00	10.69	44.69	47.46	-2.77	AVG	
5		1.5015	30.56	10.47	41.03	56.00	-14.97	QP	
6		1.5015	22.07	10.47	32.54	46.00	-13.46	AVG	
7		2.4400	30.51	10.54	41.05	56.00	-14.95	QP	
8		2.4400	22.17	10.54	32.71	46.00	-13.29	AVG	
9		3.0800	33.11	10.58	43.69	56.00	-12.31	QP	
10		3.0800	24.96	10.58	35.54	46.00	-10.46	AVG	
11		3.2778	33.96	10.59	44.55	56.00	-11.45	QP	
12		3.2778	23.42	10.59	34.01	46.00	-11.99	AVG	

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Conducted Emission Measurement

File :ER-2006-40013

Date: 2006/5/26

Time: 下午 05:44:53

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 63 %

EUT: BT Headset

Air Pressure: hpa

M/N: BT-003

Note: Operation + Charging for PC

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1700	34.71	10.55	45.26	64.96	-19.70	QP	
2	0.1700	28.91	10.55	39.46	54.96	-15.50	AVG	
3	0.2500	31.01	10.61	41.62	61.76	-20.14	QP	
4	0.2500	22.36	10.61	32.97	51.76	-18.79	AVG	
5	0.4181	36.77	10.68	47.45	57.49	-10.04	QP	
6 *	0.4181	34.23	10.68	44.91	47.49	-2.58	AVG	
7	1.5400	31.41	10.47	41.88	56.00	-14.12	QP	
8	1.5400	21.14	10.47	31.61	46.00	-14.39	AVG	
9	2.4600	29.22	10.54	39.76	56.00	-16.24	QP	
10	2.4600	22.59	10.54	33.13	46.00	-12.87	AVG	
11	3.1974	33.39	10.59	43.98	56.00	-12.02	QP	
12	3.1974	23.47	10.59	34.06	46.00	-11.94	AVG	

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5. PEAK OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

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

6.2. Measurement Procedure

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

6.3. Measurement Result

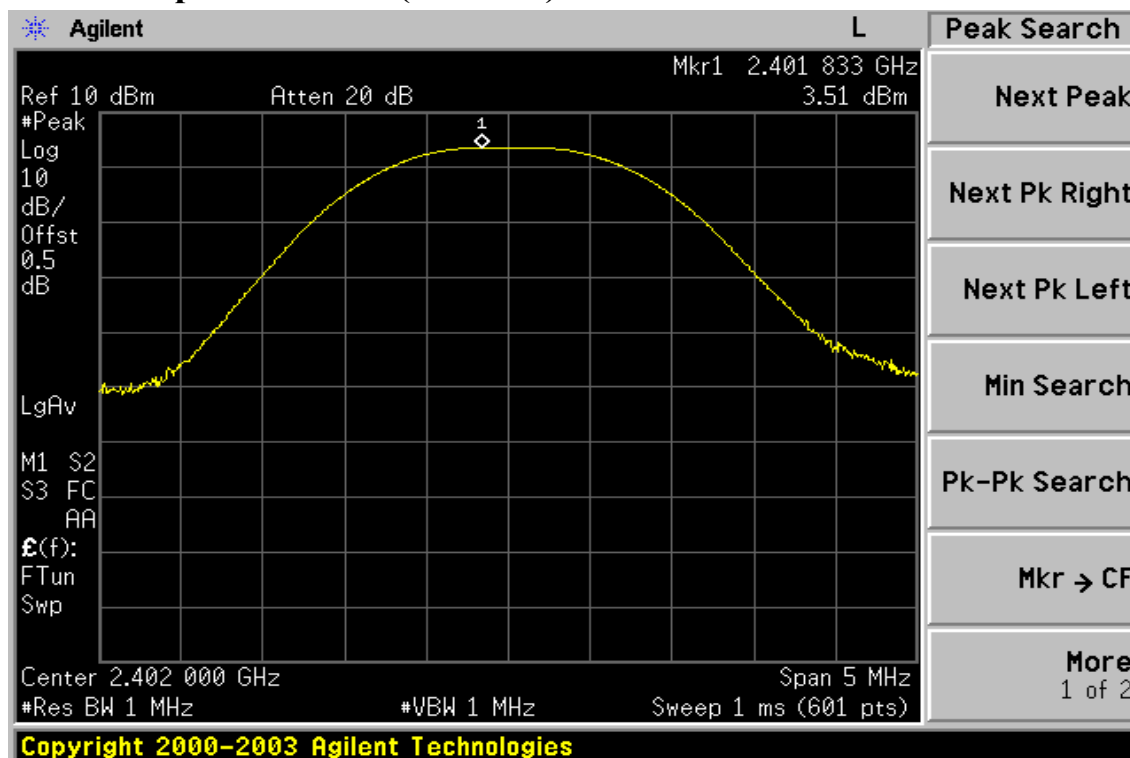
Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	3.51	0.10	3.61	0.00230	1
2441.00	3.67	0.10	3.77	0.00238	1
2480.00	3.17	0.10	3.27	0.00212	1

6.4. Measurement Equipment Used:

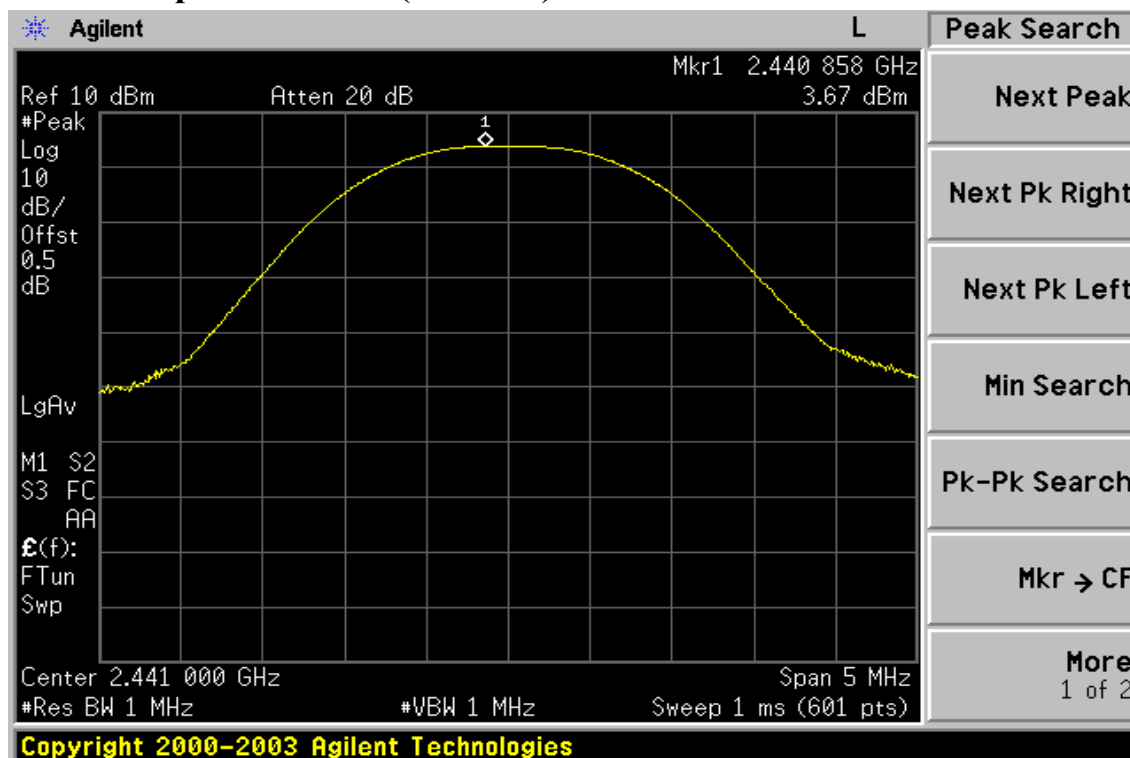
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Low Loss Cable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

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Peak Power Output Data Plot (CH Low)

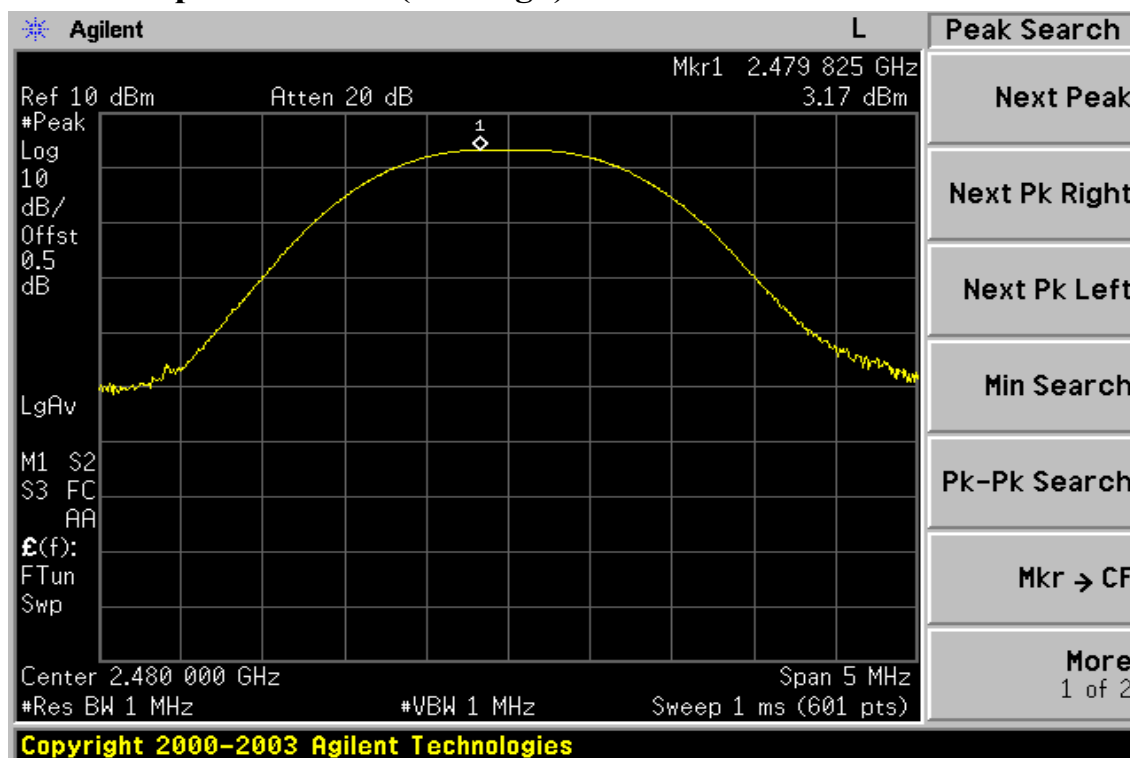


Peak Power Output Data Plot (CH Mid)



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Peak Power Output Data Plot (CH High)



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6. 20dB BAND WIDTH

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

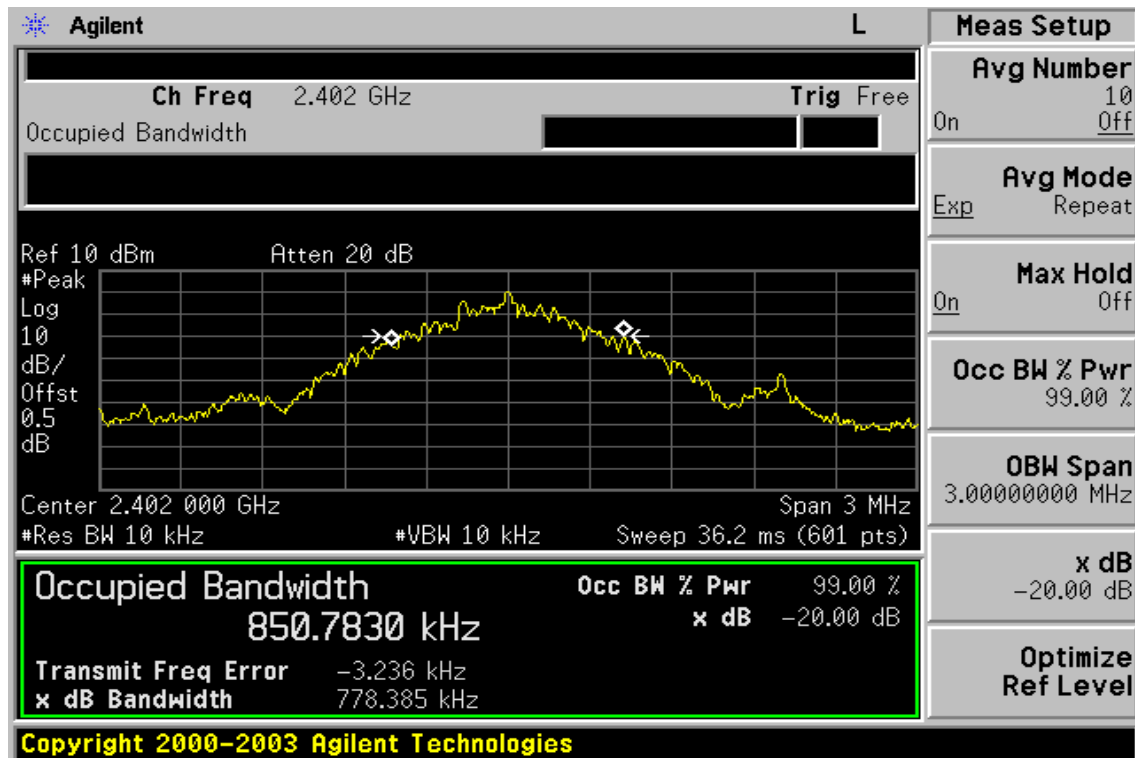
CH	Bandwidth (MHz)
Lower	0.778
Mid	0.779
Higher	0.779

7.4. Measurement Equipment Used:

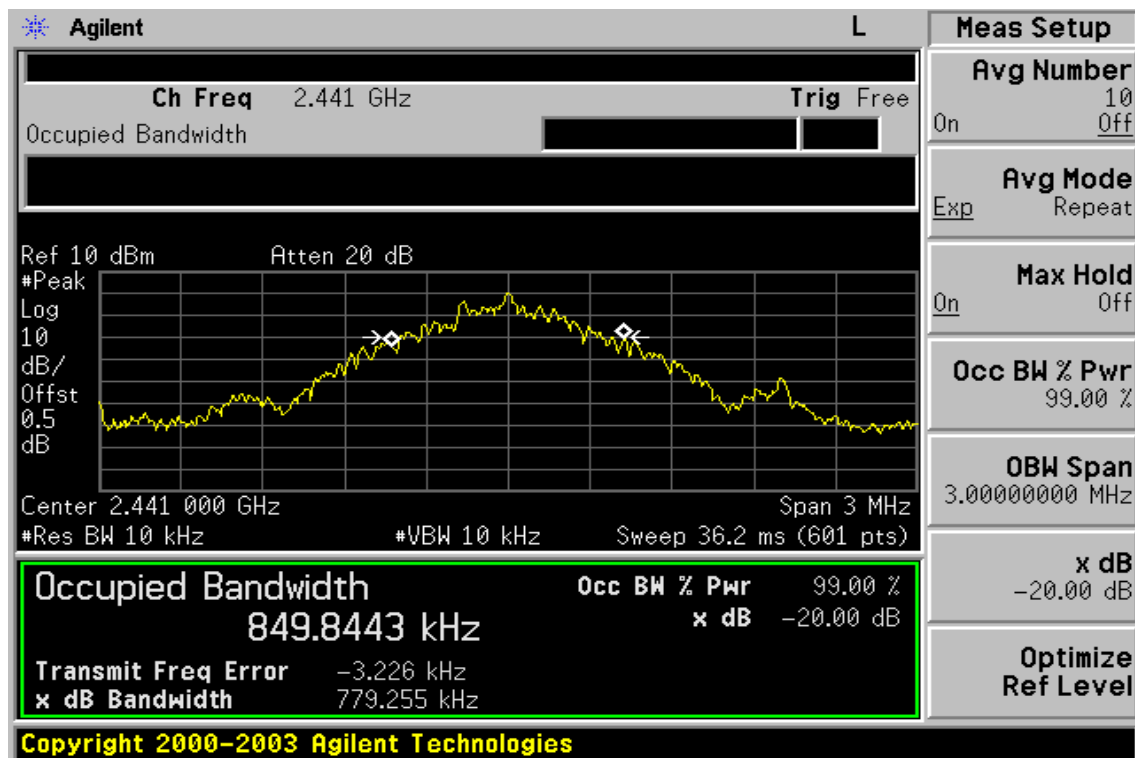
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Low Loss Cable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

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20dB Band Width Test Data CH-Low

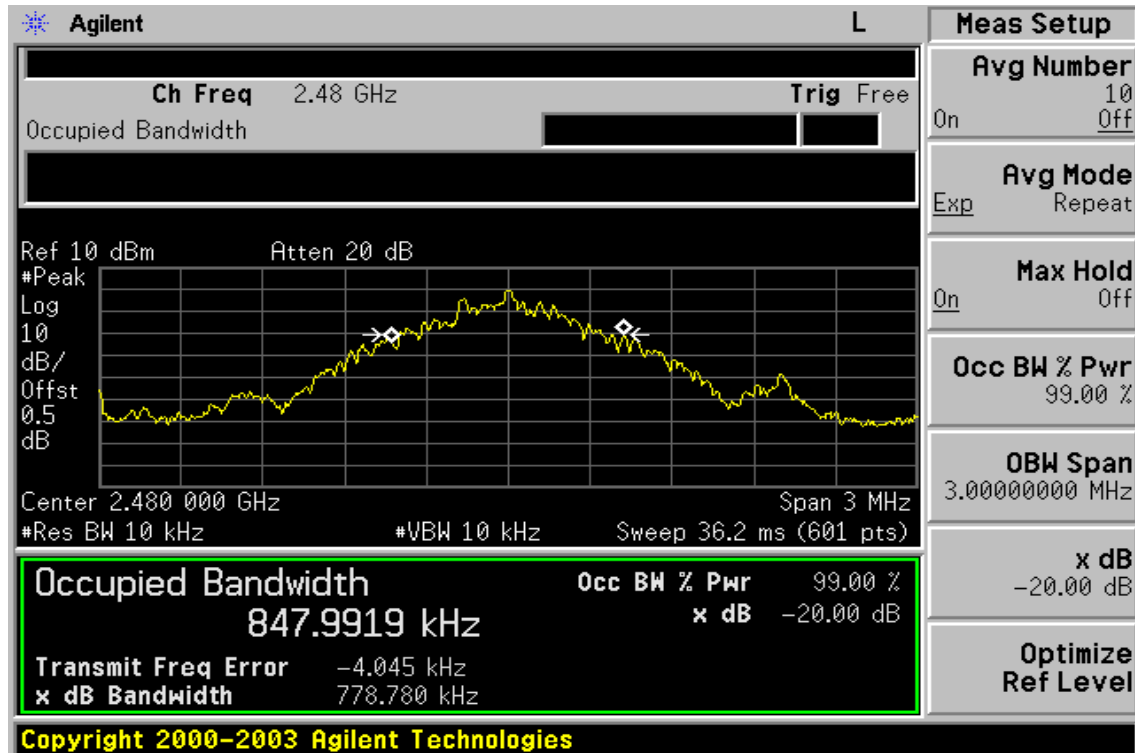


20dB Band Width Test Data CH-Mid



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20dB Band Width Test Data CH-High



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7. 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).

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.
7. Radiated Emission refer to section 9.

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+SUHNE R	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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Radiated Emission:

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

Test Date Aug. 11, 2006
 Test By Jason
 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)		
2486.0	39.41	----	-3.43	35.98	----	74.00	54.00	-18.02	Peak
2397.7	36.69	----	-3.40	33.29	----	74.00	54.00	-20.71	Peak

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

Test Date Aug. 11, 2006
 Test By Jason
 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)		
2386.0	42.46	----	-3.40	39.06	----	74.00	54.00	-14.94	Peak
2397.7	42.46	----	-3.40	39.06	----	74.00	54.00	-14.94	Peak

Remark :

- (1) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Emission:

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

Test Date Aug. 11, 2006
Test By Jason
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	37.95	----	-3.00	34.95	----	74.00	54.00	-19.05	Peak
2484.5	38.49	----	-3.04	35.45	----	74.00	54.00	-18.55	Peak
2496.0	34.30	----	-2.95	31.35	----	74.00	54.00	-22.65	Peak

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

Test Date Aug. 11, 2006
Test By Jason
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	40.51	----	-3.04	37.47	----	74.00	54.00	-16.53	Peak
2484.5	40.53	----	-3.04	37.49	----	74.00	54.00	-16.51	Peak
2493.0	34.43	----	-2.95	31.48	----	74.00	54.00	-22.52	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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8. 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.

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 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.

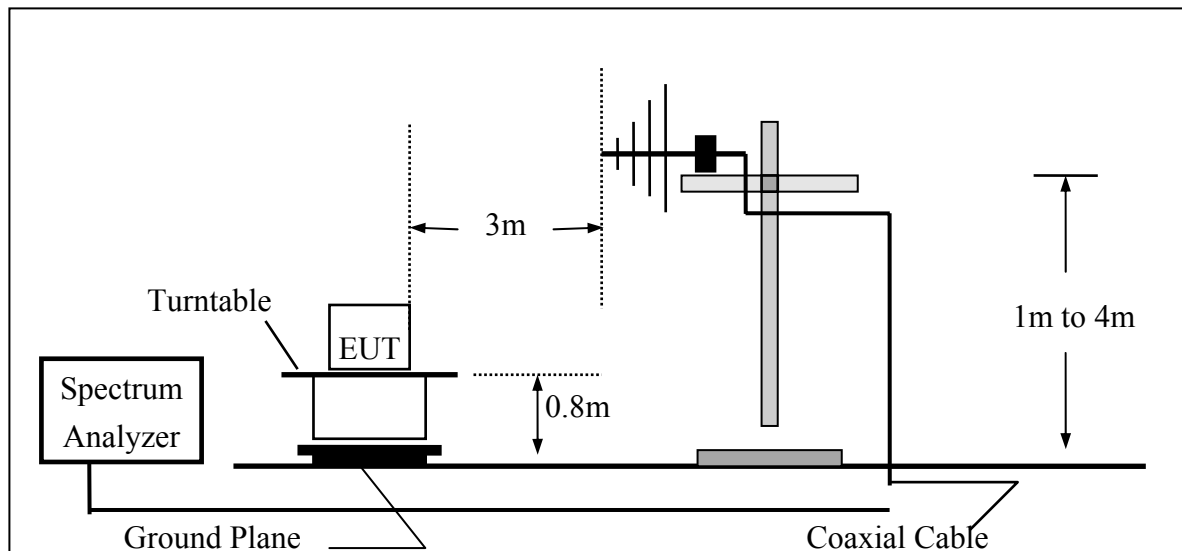
9.3. Measurement Procedure

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.

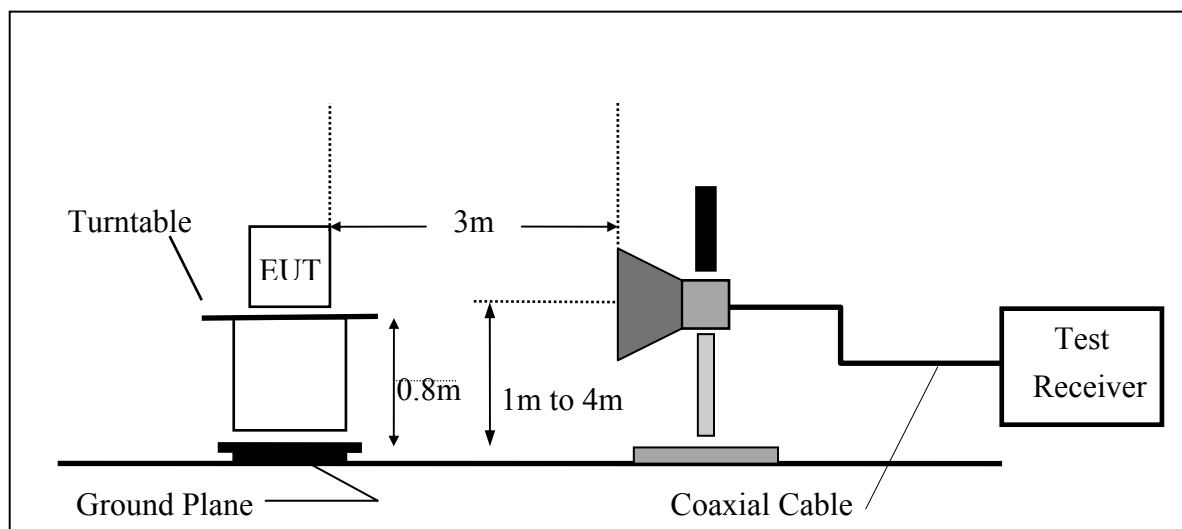
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9.4. Test SET-UP (Block Diagram of Configuration)

(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	08/26/2007
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+SUHNE R	SUCOFLEX 104PEA-10 M	10m	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNE R	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:

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

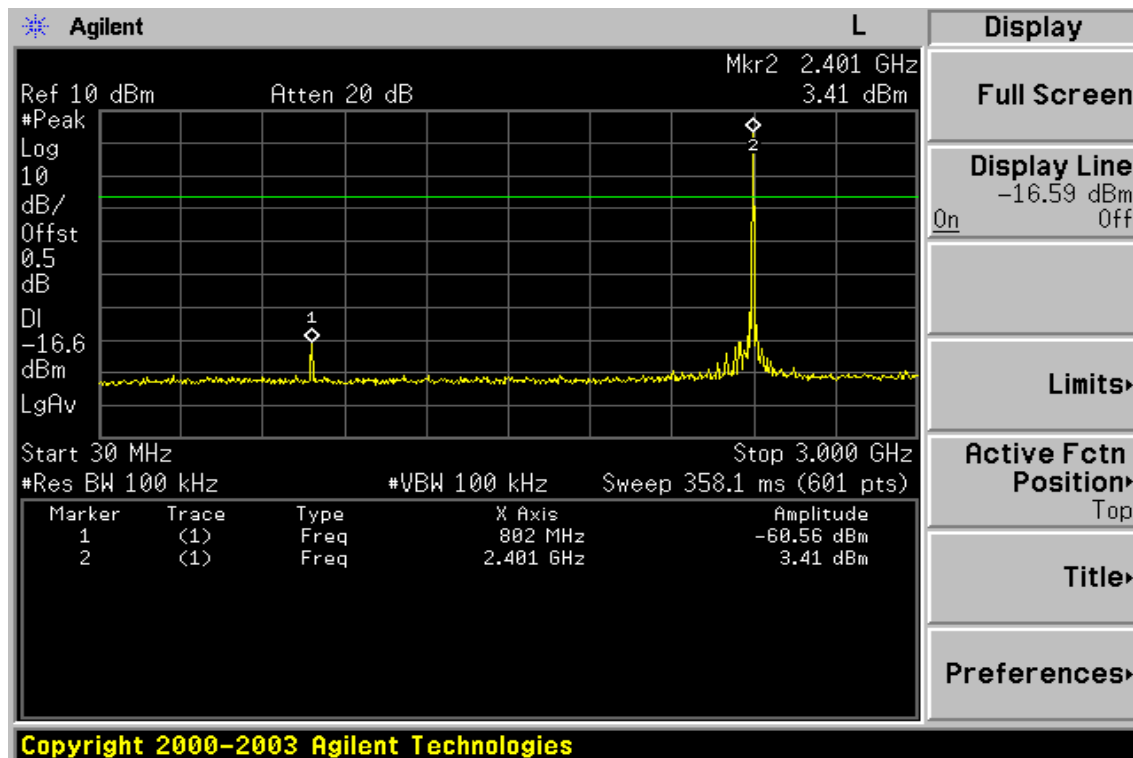
Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

9.7. Measurement Result

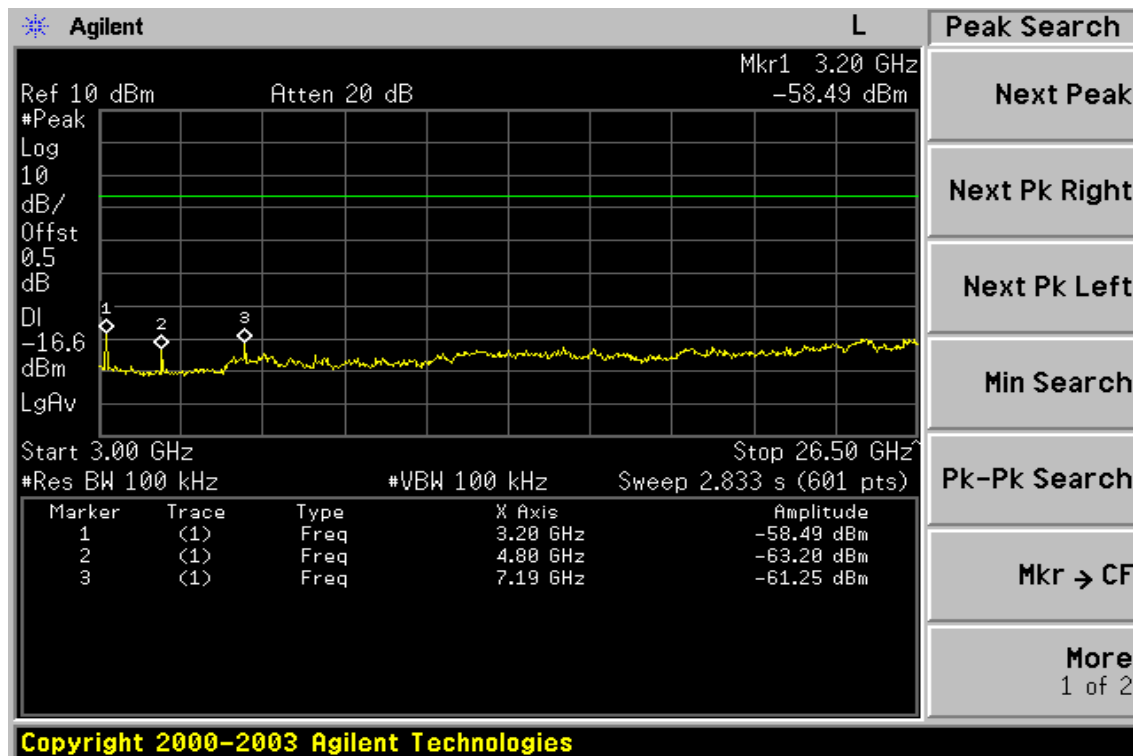
Refer to attach tabular data sheets.

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

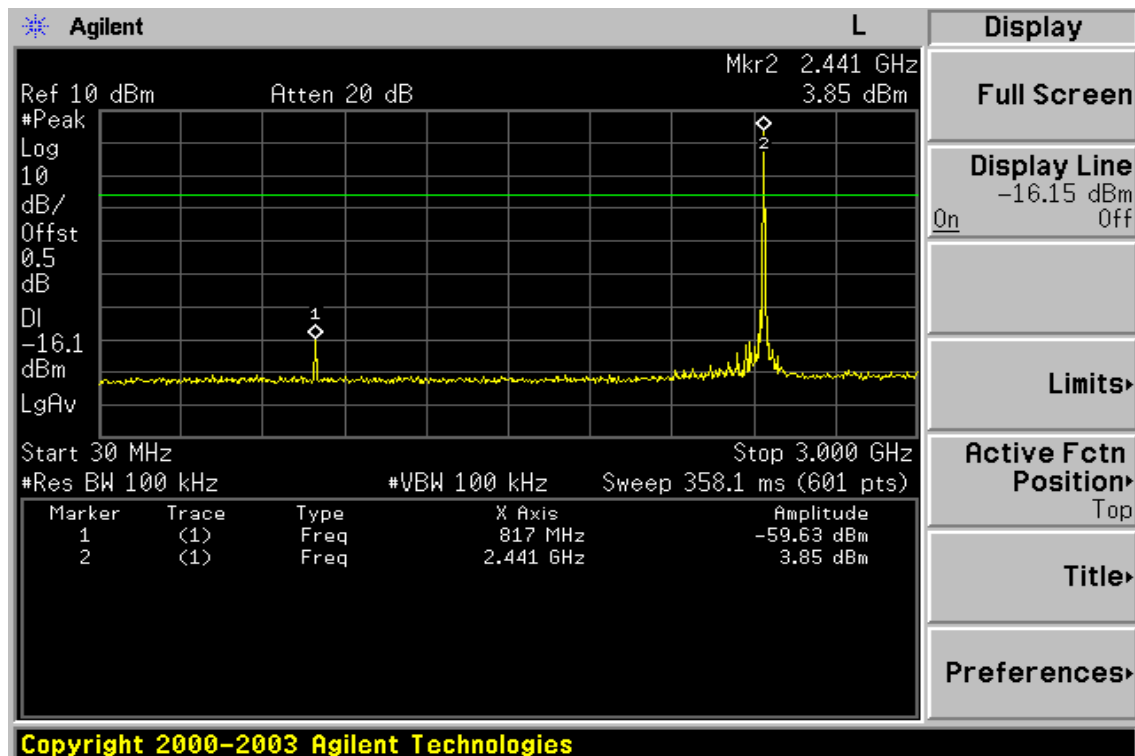


Ch Low 3GHz – 26.5GHz

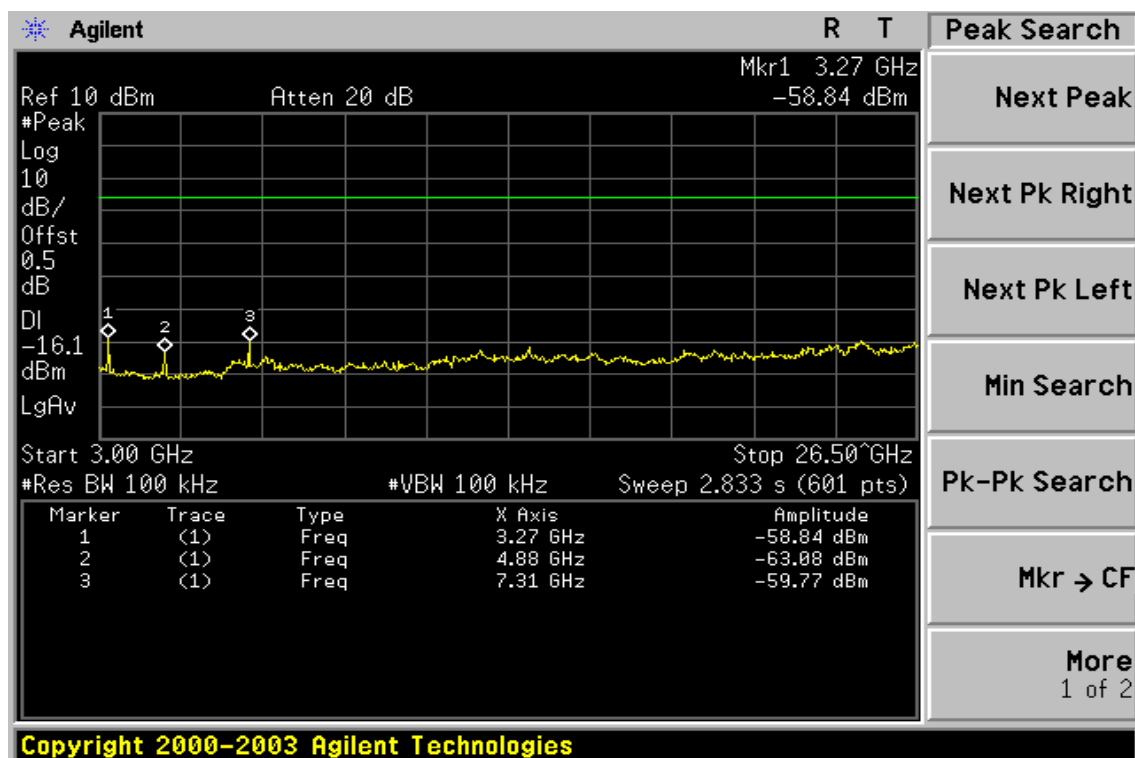


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Ch Mid 30MHz – 3GHz

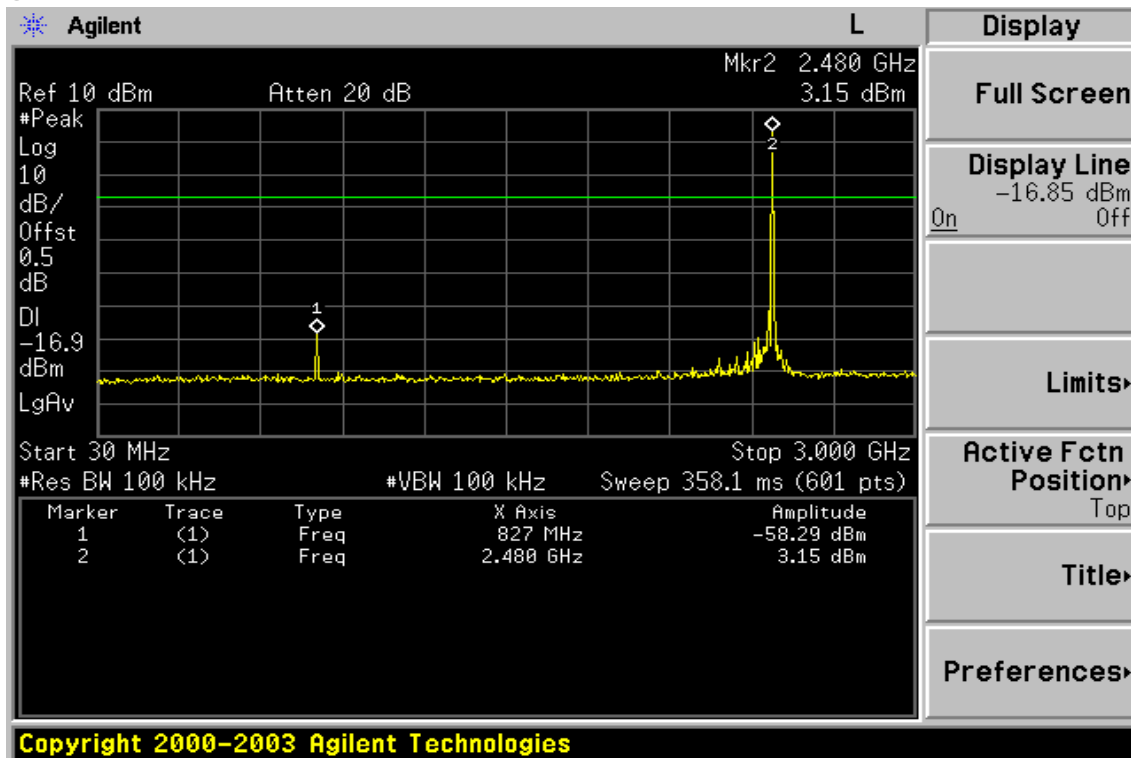


Ch Mid 3GHz – 26.5GHz

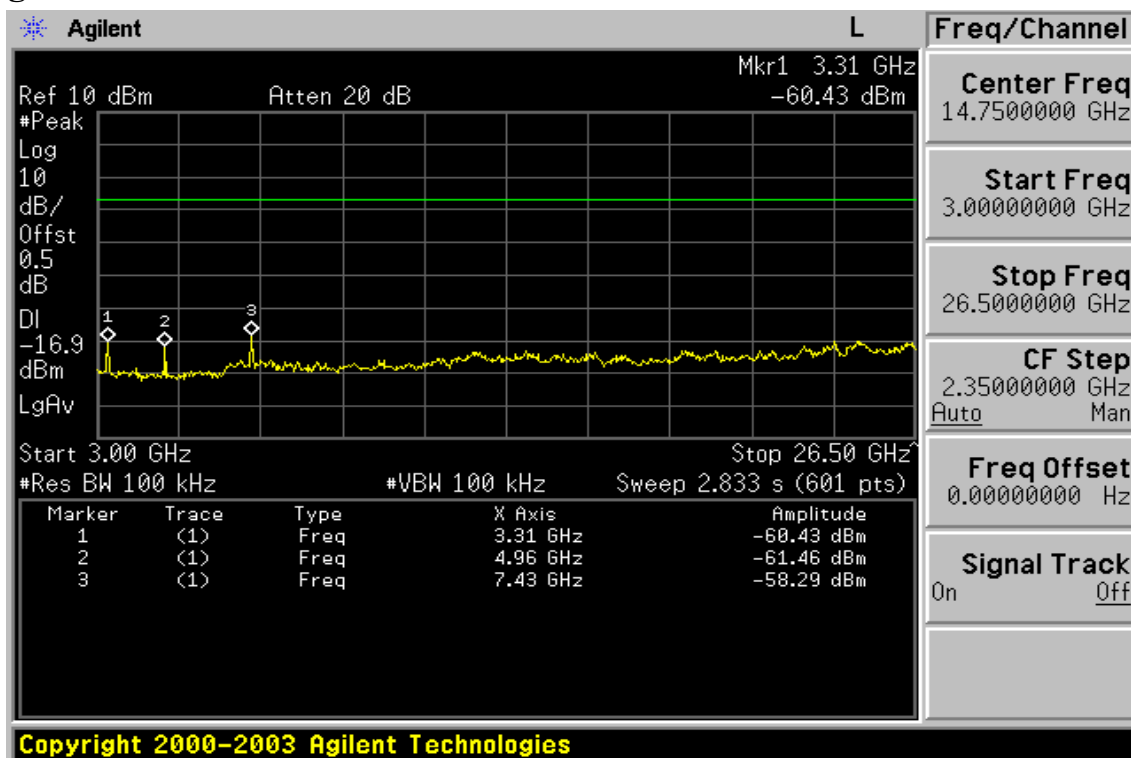


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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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Radiated Spurious Emission Measurement Result (below 1GHz)

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

Test Date Aug. 12, 2006
 Test By Jason
 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)
36.79	V	Peak	45.10	-14.93	30.17	40.00	-9.83
56.19	V	Peak	46.32	-14.95	31.37	40.00	-8.63
148.34	V	Peak	40.34	-13.43	26.91	43.50	-16.59
191.99	V	Peak	39.68	-16.08	23.60	43.50	-19.90
400.54	V	Peak	38.67	-10.58	28.09	46.00	-17.91
455.83	V	Peak	37.09	-9.72	27.37	46.00	-18.63
33.88	H	Peak	40.64	-15.12	25.52	40.00	-14.48
75.59	H	Peak	45.70	-17.65	28.05	40.00	-11.95
140.58	H	Peak	40.62	-13.85	26.77	43.50	-16.73
191.99	H	Peak	42.75	-16.08	26.67	43.50	-16.83
288.99	H	Peak	43.26	-13.82	29.44	46.00	-16.56
623.64	H	Peak	41.42	-7.10	34.32	46.00	-11.68

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.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH Mid
 Fundamental Frequency 2441MHz
 Temperature 25 °C
 Humidity 65 %

Test Date Aug. 12, 2006
 Test By Jason
 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)
36.76	V	Peak	43.88	-14.93	28.95	40.00	-11.05
56.19	V	Peak	43.88	-14.95	28.93	40.00	-11.07
148.34	V	Peak	38.71	-13.43	25.28	43.50	-18.22
400.54	V	Peak	37.59	-10.58	27.01	46.00	-18.99
455.83	V	Peak	36.93	-9.72	27.21	46.00	-18.79
623.64	V	Peak	35.28	-7.10	28.18	46.00	-17.82
36.79	H	Peak	44.78	-14.93	29.85	40.00	-10.15
56.19	H	Peak	41.02	-14.95	26.07	40.00	-13.93
196.84	H	Peak	40.32	-16.44	23.88	43.50	-19.62
288.99	H	Peak	43.26	-13.82	29.44	46.00	-16.56
400.54	H	Peak	35.95	-10.58	25.37	46.00	-20.63
623.64	H	Peak	40.95	-7.10	33.85	46.00	-12.15

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
 Fundamental Frequency 2480MHz
 Temperature 25 °C
 Humidity 65 %

Test Date Aug. 12, 2006
 Test By Jason
 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)
33.88	V	Peak	44.75	-15.12	29.63	40.00	-10.37
56.19	V	Peak	45.35	-14.95	30.40	40.00	-9.60
150.28	V	Peak	39.48	-13.39	26.09	43.50	-17.41
191.99	V	Peak	39.81	-16.08	23.73	43.50	-19.77
400.54	V	Peak	38.23	-10.58	27.65	46.00	-18.35
455.83	V	Peak	37.31	-9.72	27.59	46.00	-18.41
33.88	H	Peak	40.42	-15.12	25.30	40.00	-14.70
77.53	H	Peak	43.74	-18.06	25.68	40.00	-14.32
191.99	H	Peak	42.55	-16.08	26.47	43.50	-17.03
256.98	H	Peak	40.27	-15.07	25.20	46.00	-20.80
288.99	H	Peak	42.69	-13.82	28.87	46.00	-17.13
623.64	H	Peak	41.98	-7.10	34.88	46.00	-11.12

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

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)		
1351.0	42.28	--	-7.85	34.43	--	74.00	54.00	-19.57	Peak
1598.0	48.52	--	-6.81	41.71	--	74.00	54.00	-12.29	Peak
4804.0	42.90	--	2.96	45.86	--	74.00	54.00	-8.14	Peak
7206.0	----								
9608.0	----								
12010.0	----								
14412.0	----								
16814.0	----								
19216.0	----								
21618.0	----								
24020.0	----								

- (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
 Fundamental Frequency 2402 MHz
 Temperature 25 °C
 Humidity 65 %

Test Date Aug. 12, 2006
 Test By Jason
 Pol Hor

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS Peak (dBuV/m)	AV (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	
1045.5	43.91	--	-9.25	34.66	--	74.00	54.00	-19.34	Peak
1351.0	44.50	--	-7.85	36.65	--	74.00	54.00	-17.35	Peak
1598.0	53.95	--	-6.81	47.14	--	74.00	54.00	-6.86	Peak
3203.5	39.50	--	-1.63	37.87	--	74.00	54.00	-16.13	Peak
4804.0	41.22	--	2.96	44.18	--	74.00	54.00	-9.82	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= 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 Aug. 12, 2006
 Test By Jason
 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)		
1351.0	40.85	--	-7.85	33.00	--	74.00	54.00	-21.00	Peak
1630.5	46.92	--	-6.64	40.28	--	74.00	54.00	-13.72	Peak
3255.5	40.69	--	-1.55	39.14	--	74.00	54.00	-14.86	Peak
4882.0	41.98	--	3.18	45.16	--	74.00	54.00	-8.84	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	Test Date	Aug. 12, 2006
Fundamental Frequency	2441 MHz	Test By	Jason
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)		
1045.5	43.68	--	-9.25	34.43	--	74.00	54.00	-19.57	Peak
1351.0	44.19	--	-7.85	36.34	--	74.00	54.00	-17.66	Peak
1630.5	54.70	--	-6.64	48.06	--	74.00	54.00	-5.94	Peak
3255.5	41.61	--	-1.55	40.06	--	74.00	54.00	-13.94	Peak
4882.0	40.68	--	3.18	43.86	--	74.00	54.00	-10.14	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 Aug. 12, 2006
 Test By Jason
 Pol Ver.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS Peak (dBuV/m)	Actual FS AV (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	
1351.0	40.15	--	-7.85	32.30	--	74.00	54.00	-21.70	Peak
1643.5	45.26	--	-6.60	38.66	--	74.00	54.00	-15.34	Peak
3301.0	39.14	--	-1.46	37.68	--	74.00	54.00	-16.32	Peak
4960.0	42.37	--	3.40	45.77	--	74.00	54.00	-8.23	Peak
7440.0	----								
9920.0	----								
12400.0	----								
14880.0	----								
17360.0	----								
19840.0	----								
22320.0	----								
24800.0	----								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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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 Aug. 12, 2006
 Test By Jason
 Pol Hor

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS Peak (dBuV/m)	AV (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	
1045.5	43.87	--	-9.25	34.62	--	74.00	54.00	-19.38	Peak
1351.0	44.18	--	-7.85	36.33	--	74.00	54.00	-17.67	Peak
1643.5	54.99	--	-6.60	48.39	--	74.00	54.00	-5.61	Peak
3301.0	41.34	--	-1.46	39.88	--	74.00	54.00	-14.12	Peak
4960.0	42.07	--	3.40	45.47	--	74.00	54.00	-8.53	Peak
7440.0	----								
9920.0	----								
12400.0	----								
14880.0	----								
17360.0	----								
19840.0	----								
22320.0	----								
24800.0	----								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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9. 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.

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

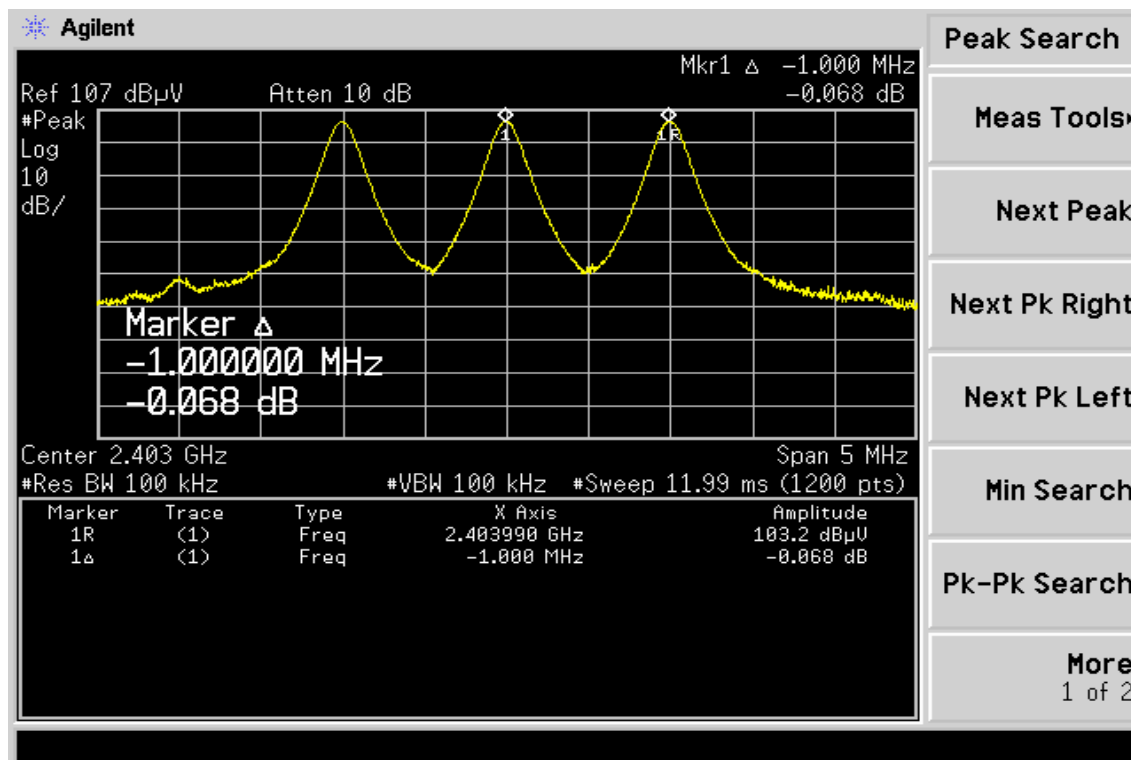
Channel separation	Limit	Result
MHz	kHz	
1	$\geq 25\text{KHz}$ or $2/3 \times 20\text{ dB bandwidth}$	PASS

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	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2005	10/06/2006

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Frequency Separation Test Data



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10. 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.

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

Total No of hopping channel	Limit (CH)	Measurement result (CH)	Result
	15	79	Pass

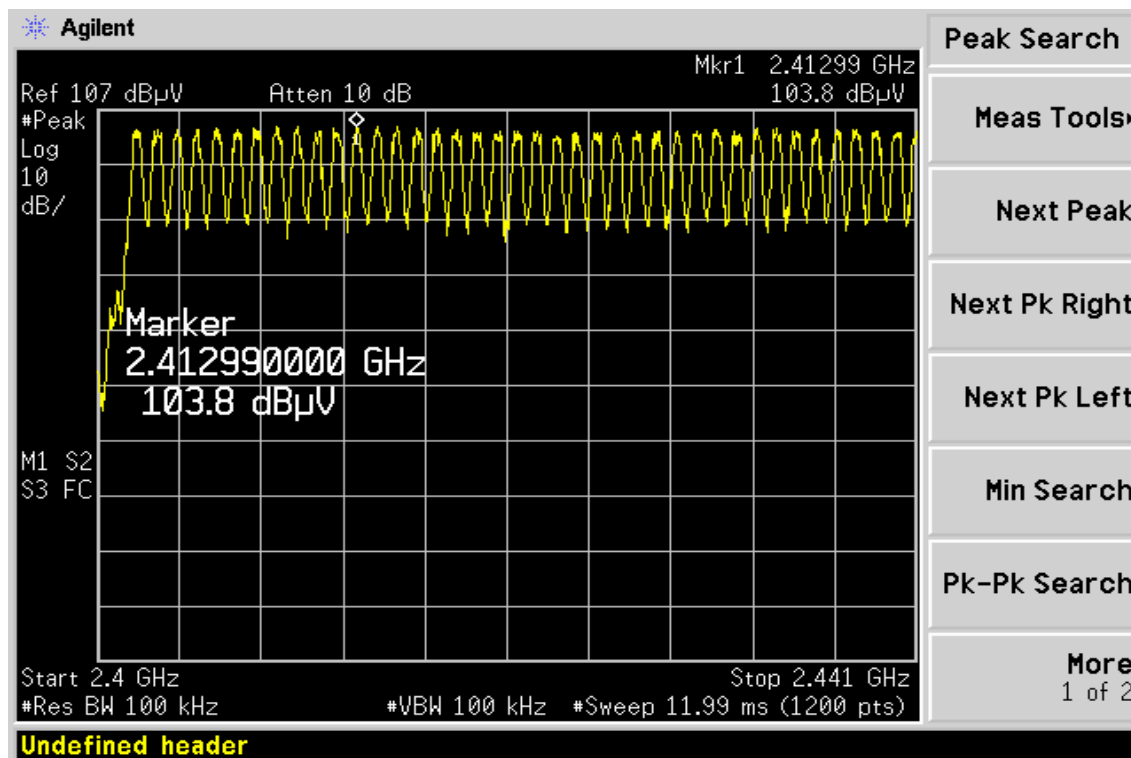
11.4. Measurement Equipment Used:

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	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2005	10/06/2006

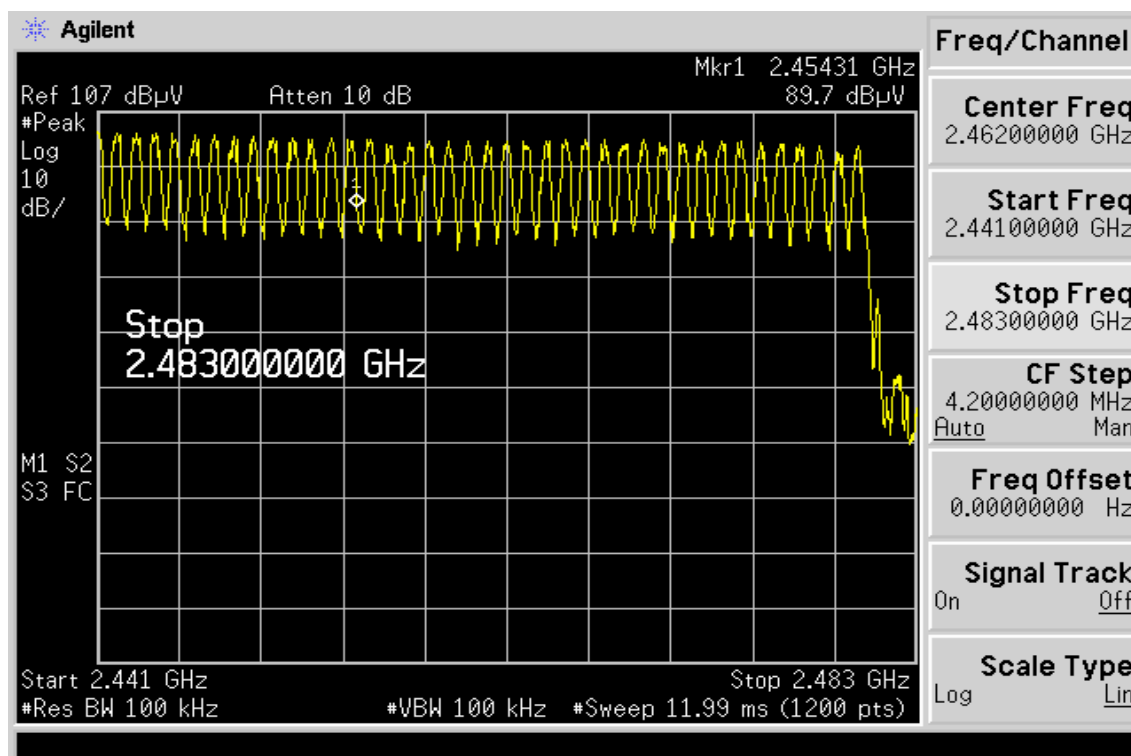
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Channel Number

2.4 GHz – 2.441GHz



2.441 GHz – 2.4835GHz



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11. 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.

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,VBW=100KHz, Span = 0Hz , Adjust Sweep = 30s.
5. Repeat above procedures until all frequency measured were complete.

12.3. Measurement Result

The dwell time of 0.312 s within a 30 second period in data mode is independent from the packet type (packet length). The calculation for a 30 second period is a follows:

Dwell time = time slot length * hop rate / number of hopping channels *30s

A period time = 0.4 (ms) * 79 = 31.6 (s)

CH Low: DH1 time slot = 0.405 (ms) * (1600/(2*79)) * 31.6 = 129.6 (ms)

DH3 time slot = 1.675 (ms) * (1600/(4*79)) * 31.6 = 268.0 (ms)

DH5 time slot = 2.925 (ms) * (1600/(6*79)) * 31.6 = 312.0 (ms)

CH Mid: DH1 time slot = 0.405 (ms) * (1600/(2*79)) * 31.6 = 129.6 (ms)

DH3 time slot = 1.675 (ms) * (1600/(4*79)) * 31.6 = 268.0 (ms)

DH5 time slot = 2.906 (ms) * (1600/(6*79)) * 31.6 = 309.9 (ms)

CH High: DH1 time slot = 0.416 (ms) * (1600/(2*79)) * 31.6 = 133.12 (ms)

DH3 time slot = 1.662 (ms) * (1600/(4*79)) * 31.6 = 265.92 (ms)

DH5 time slot = 2.906 (ms) * (1600/(6*79)) * 31.6 = 309.97 (ms)

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12.4. Measurement Equipment Used:

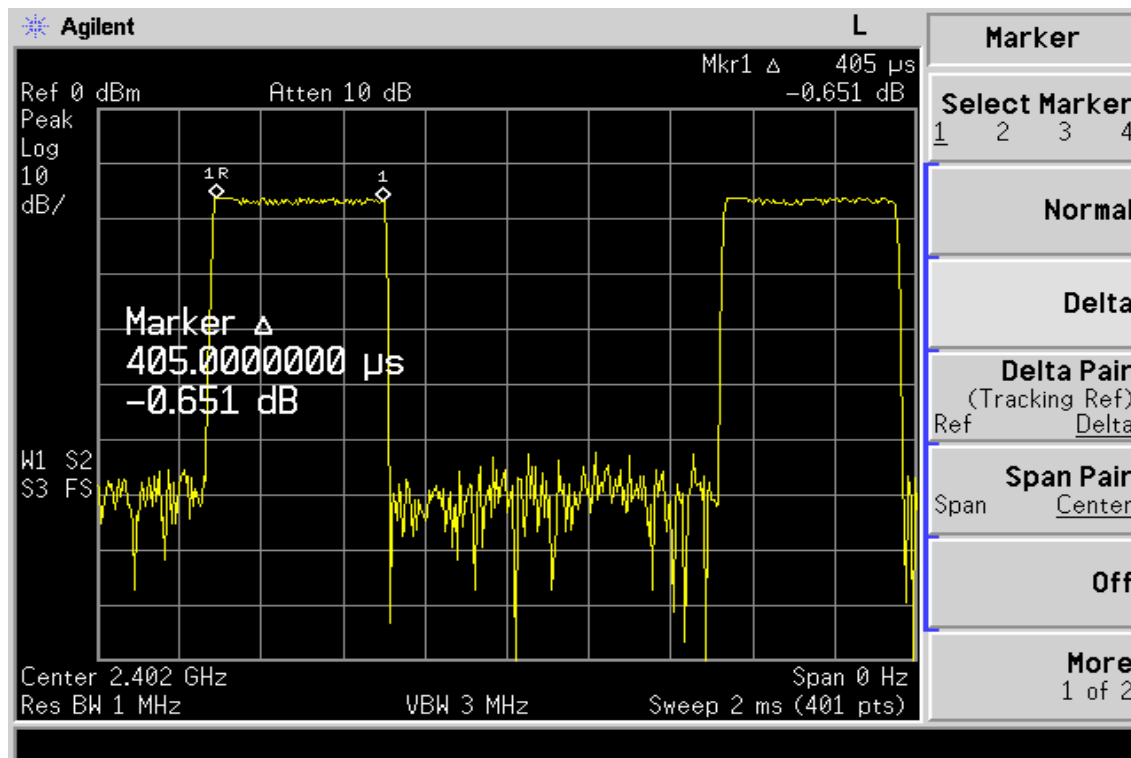
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Low Loss Cable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

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Dwell Time Test Data

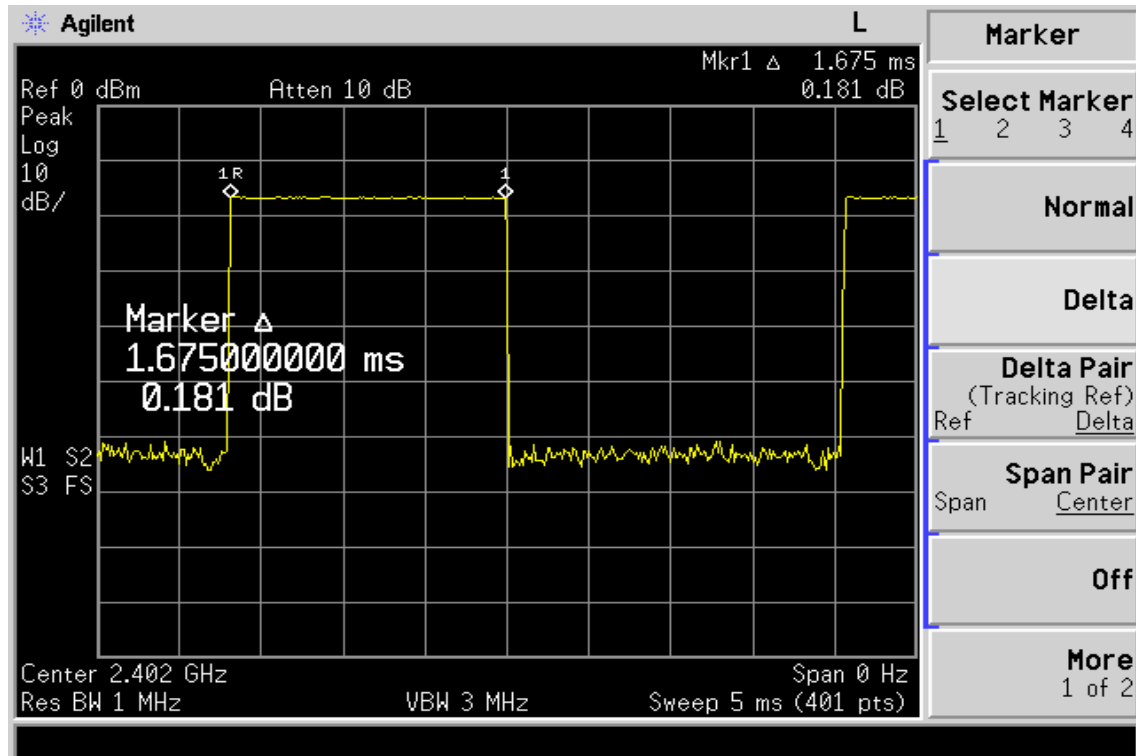
CH-Low

DH1

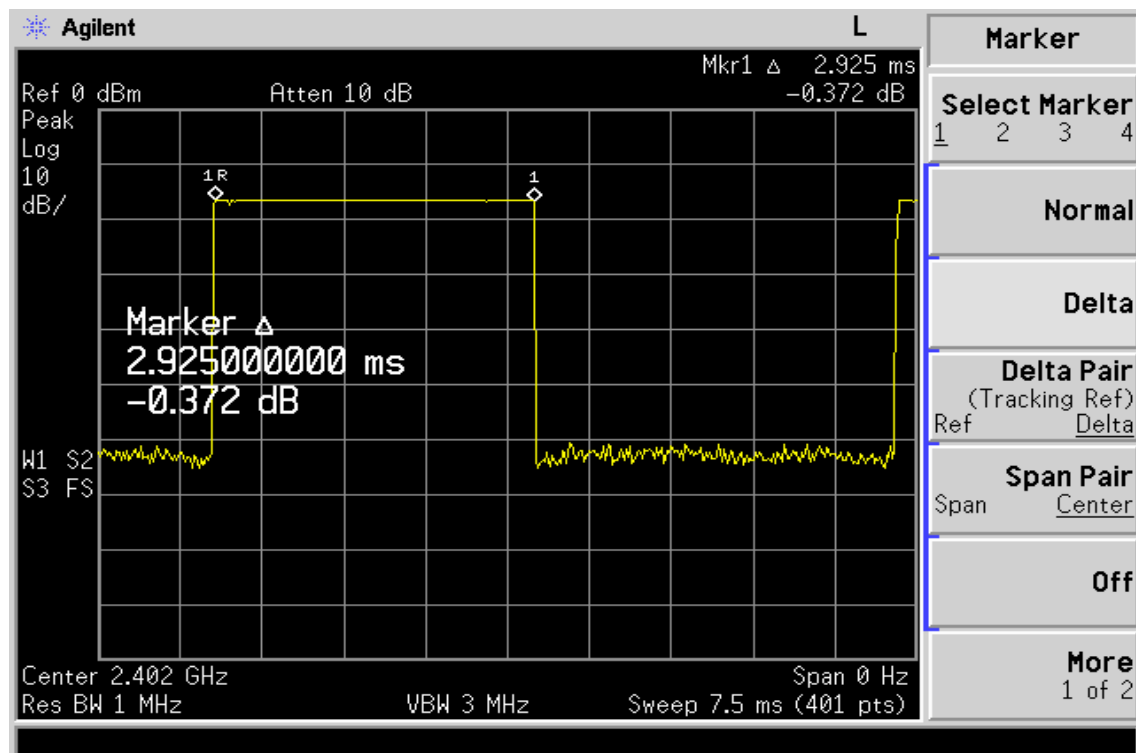


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DH3



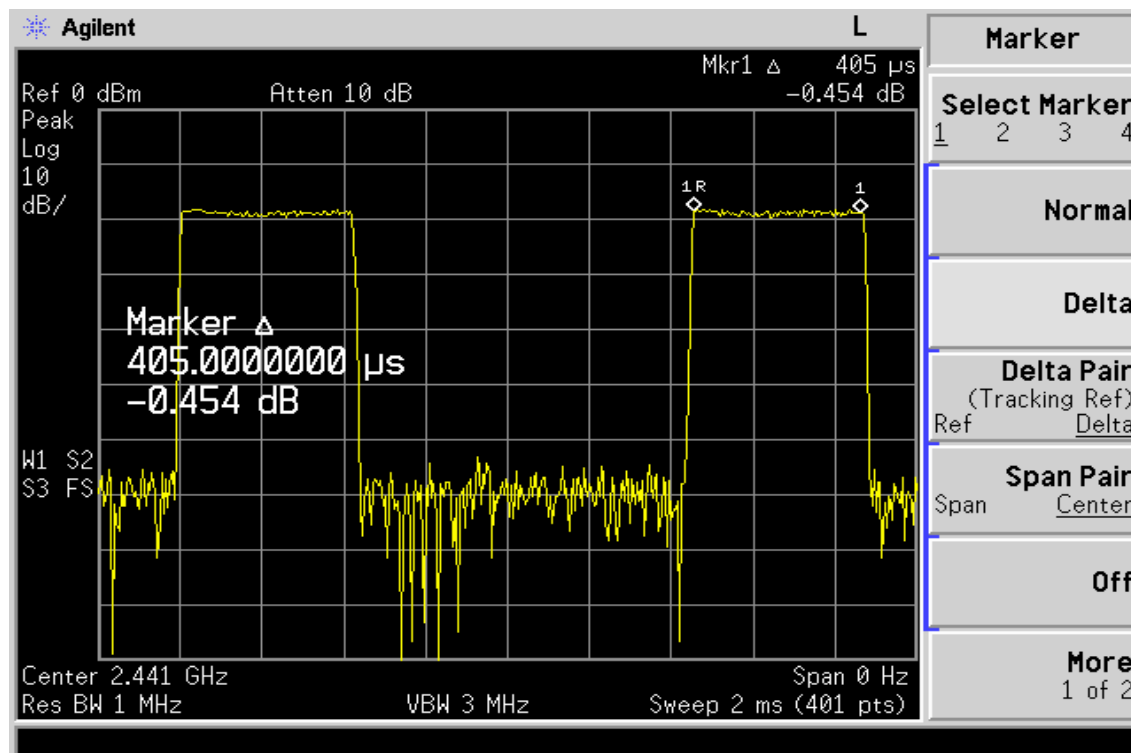
DH5



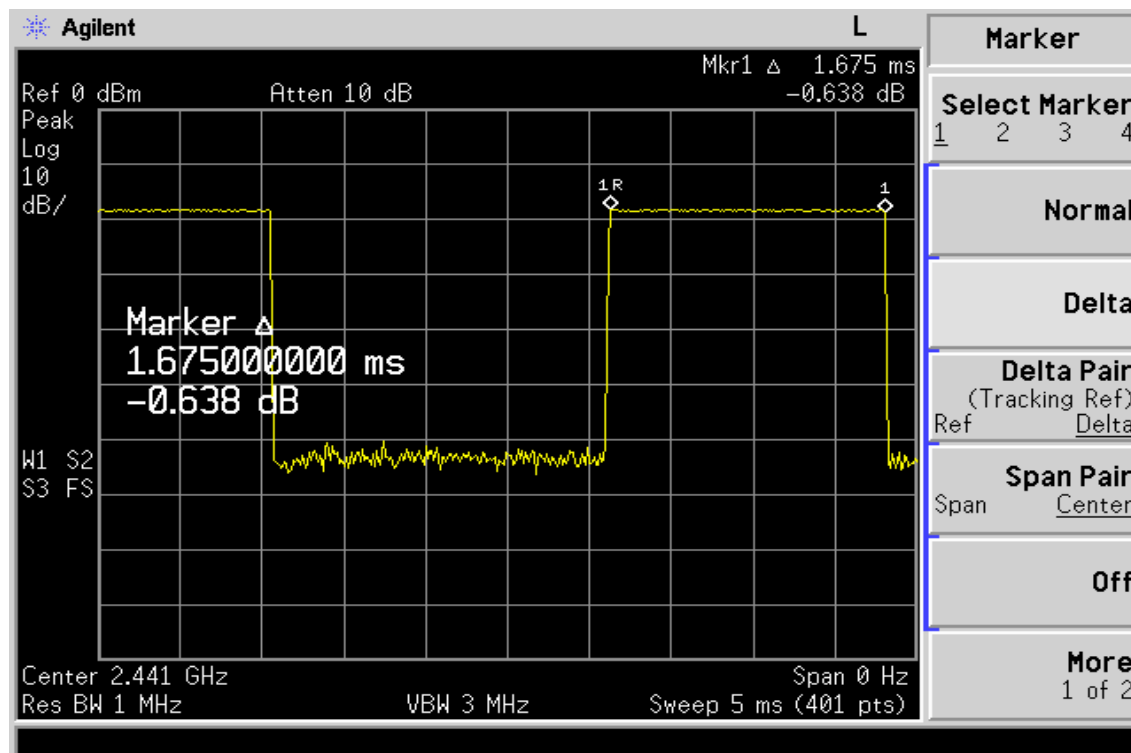
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CH-Mid

DH1

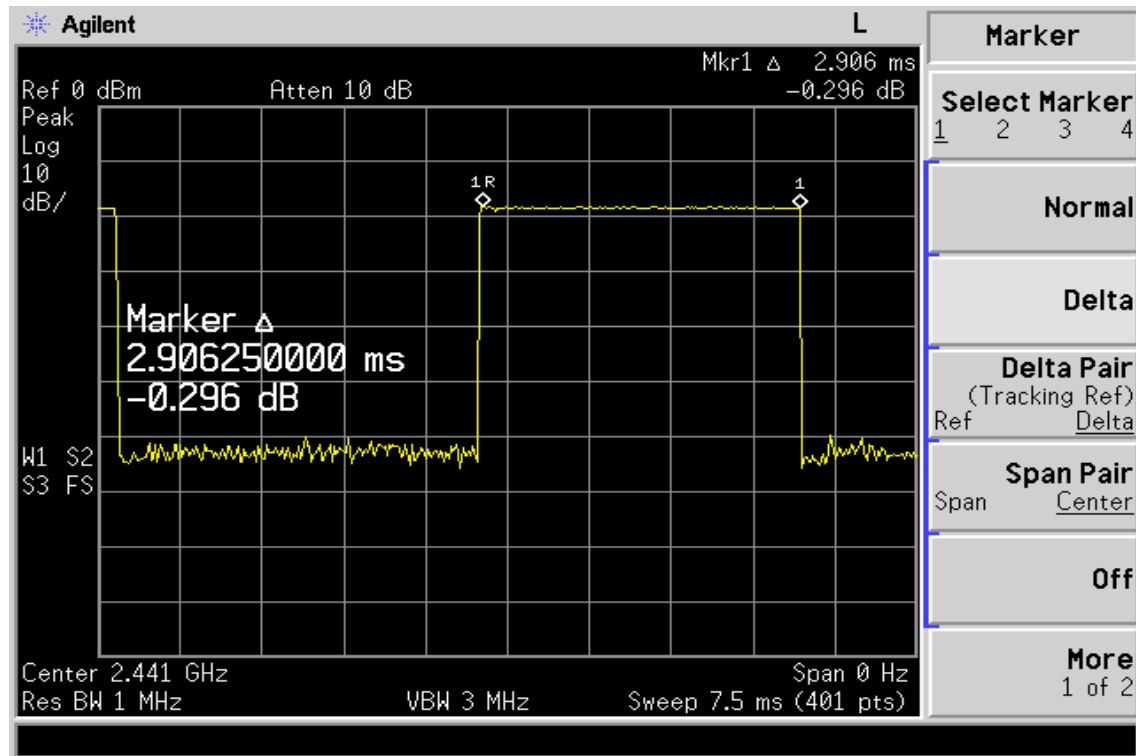


DH3



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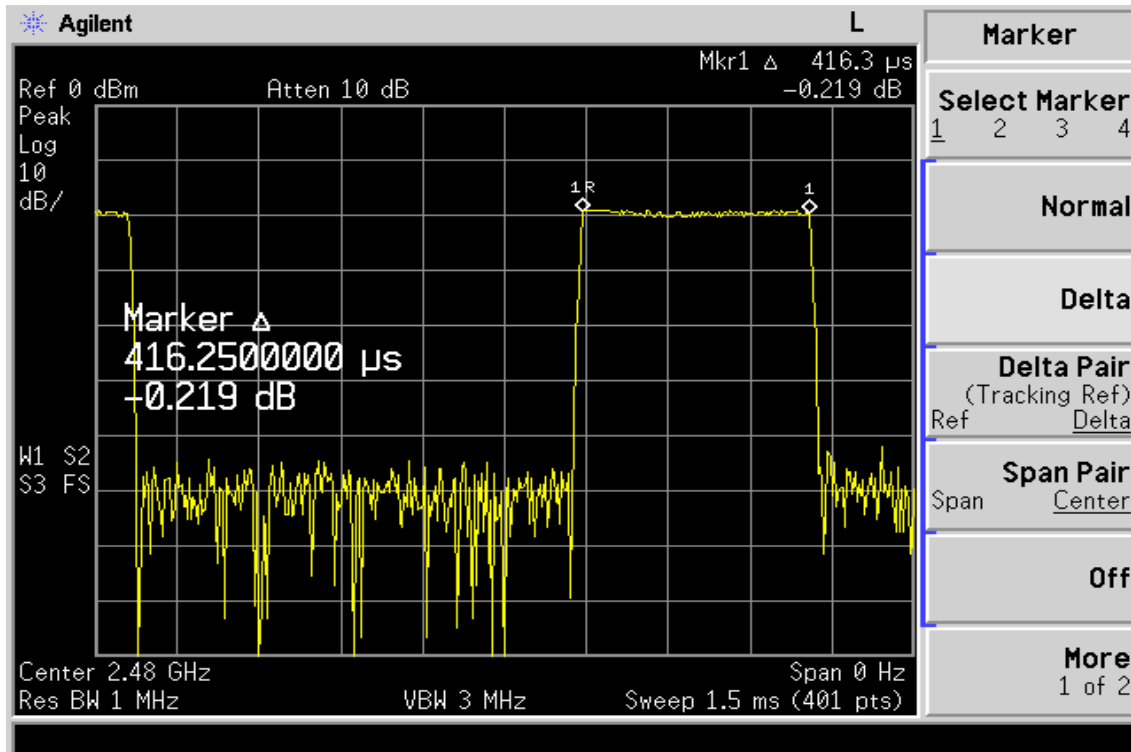
DH5



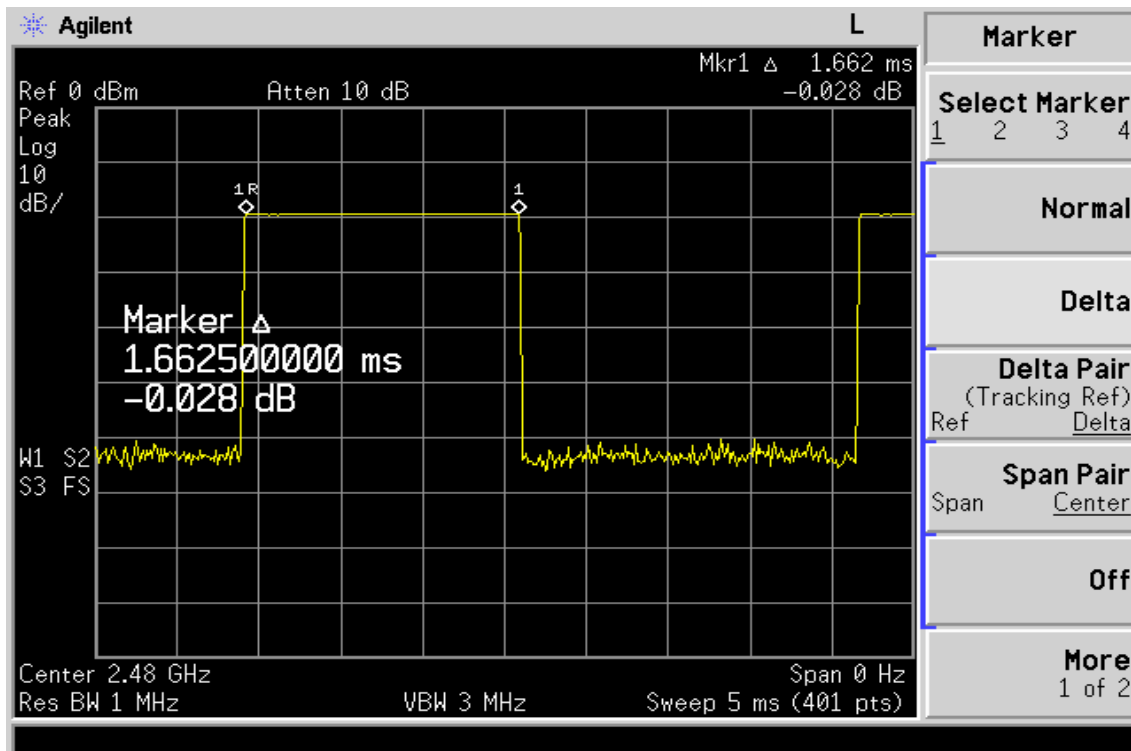
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CH-High

DH1

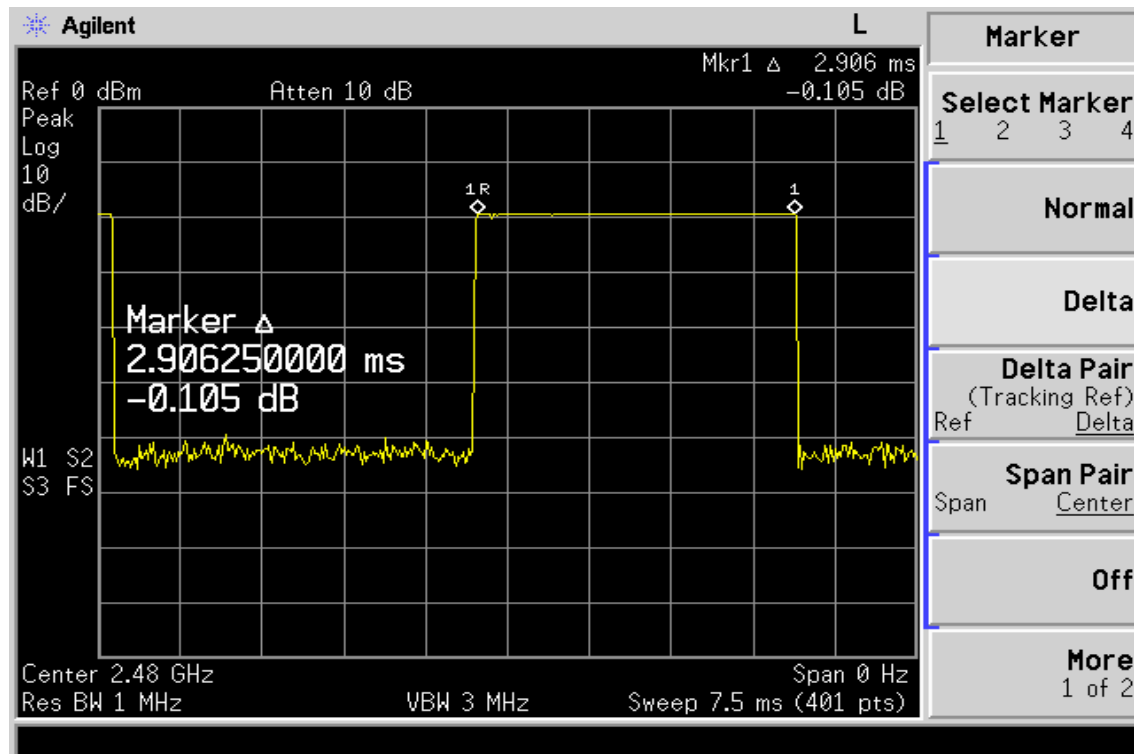


DH3



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DH5



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12. 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.

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 = 300KHz, Sweep=100s
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

13.3. Measurement Result

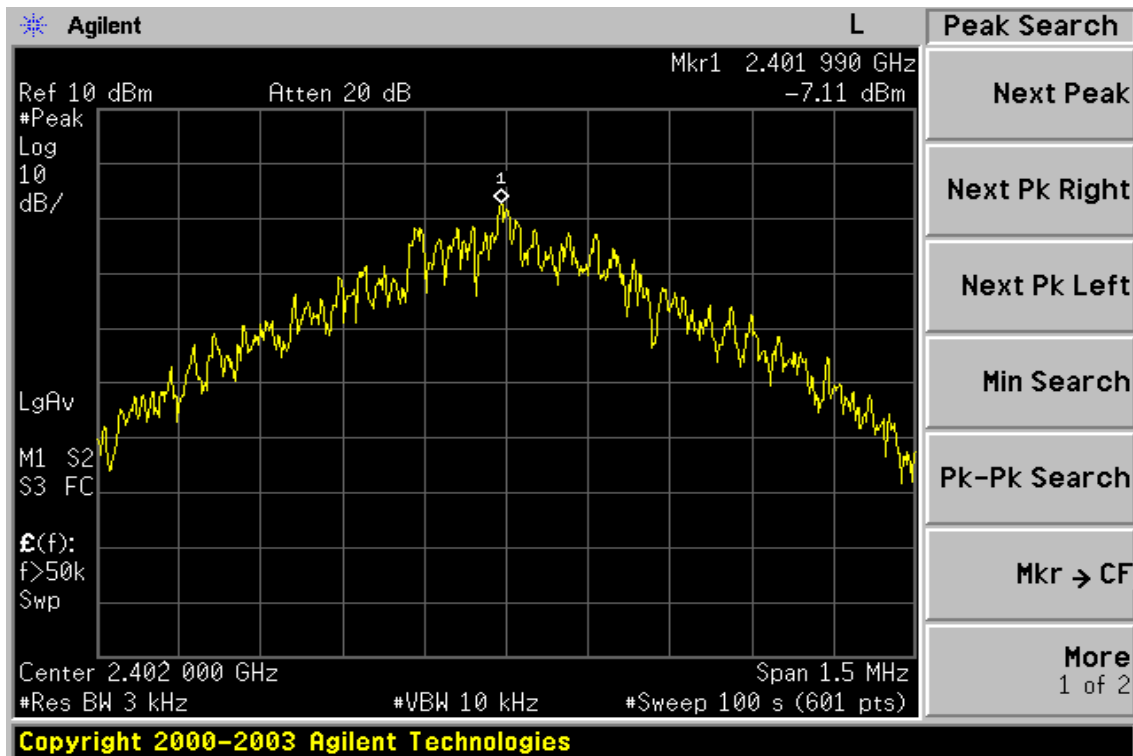
CH	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-7.11	0.10	-7.01	8
Mid	-7.11	0.10	-7.01	8
High	-7.66	0.10	-7.56	8

13.4. Measurement Equipment Used:

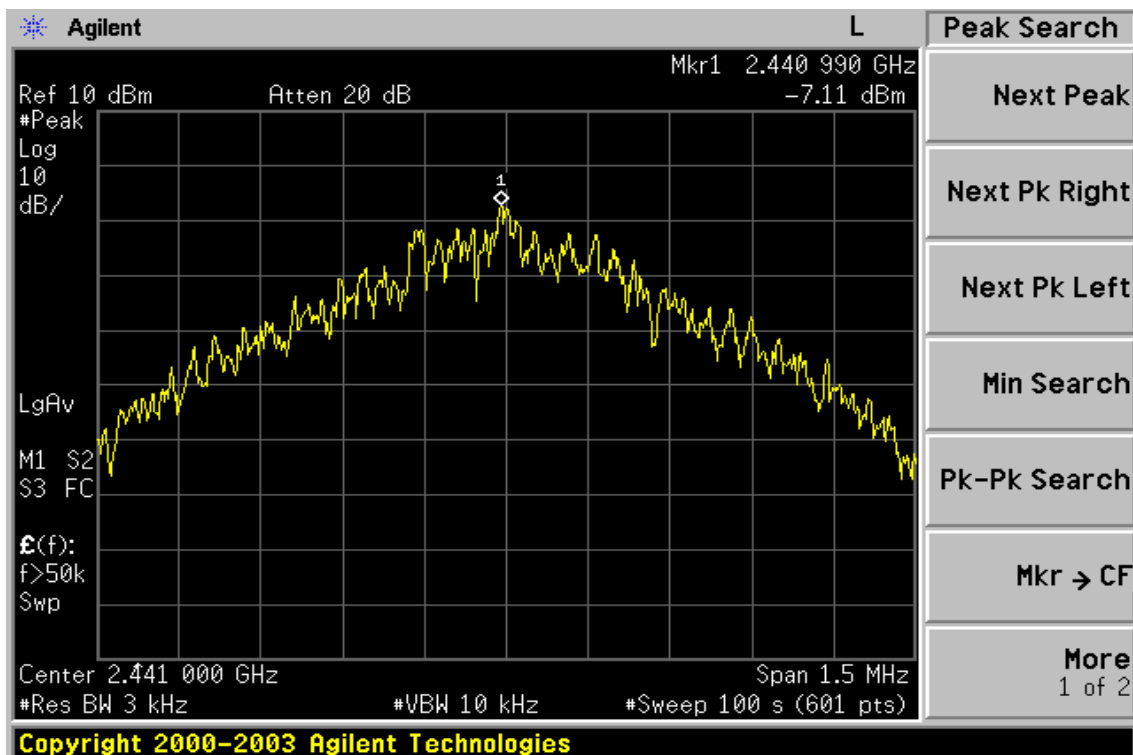
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Low Loss Cable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

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Power Spectral Density Test Plot (CH-Low)

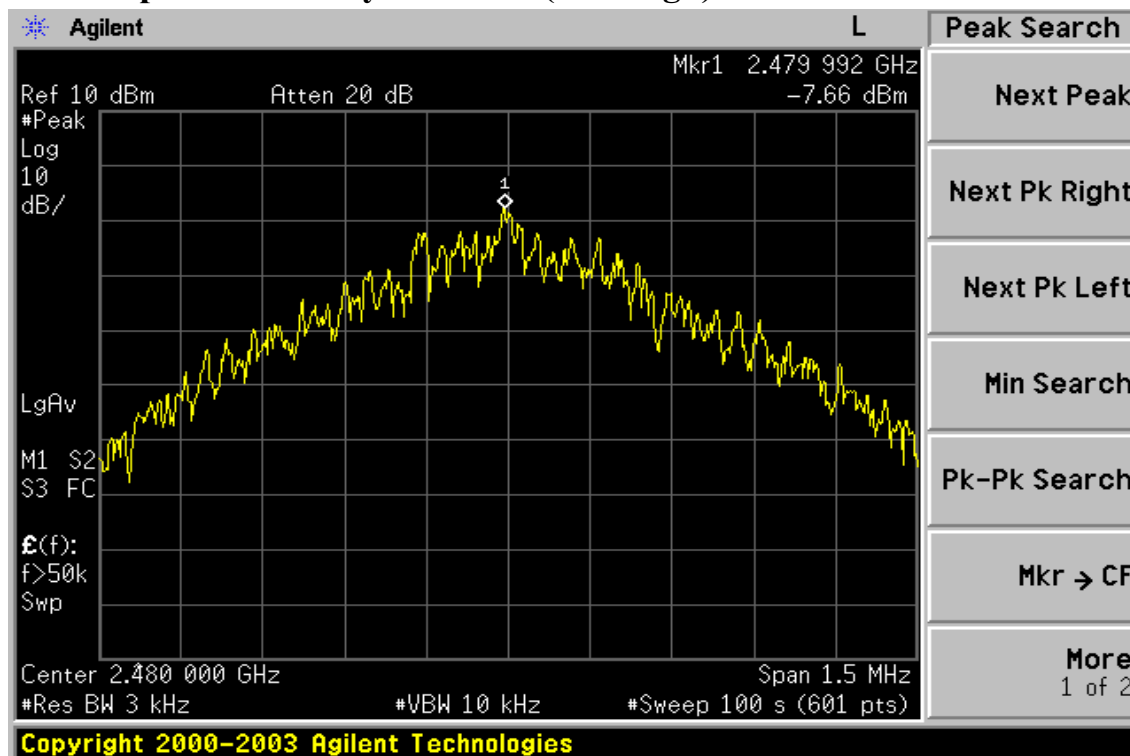


Power Spectral Density Test Plot (CH-Mid)



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Power Spectral Density Test Plot (CH-High)



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13. ANTENNA REQUIREMENT

14.1. Standard Applicable

For intentional device, 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 §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

14.2. Antenna Connected Construction

The directional gains of antenna used for transmitting is -2.53 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.