

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT
AND INDUSTRY CANADA RSS-210**

OF

Product Name: Bluetooth Headset

Brand Name: Plantronics

Model No.: M25, M55

Model Difference: Exterior difference

FCC ID: AL8-M25

IC: 457A-M25

Report No.: EF/2011/C0007

Issue Date: Jan. 10, 2012

Rule Part: §15.247, Cat: DSS
RSS-210 issue 8:2010, Annex 8
Plantronics, Inc.

Prepared for: 345 Encinal Street, Santa Cruz, CA 95060,
USA
SGS Taiwan Ltd.

Prepared by: Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial
Zone, Taipei County, Taiwan.



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CERTIFICATION OF COMPLIANCE

Applicant: Plantronics, Inc.
345 Encinal Street, Santa Cruz, CA 95060, USA

Product Name: Bluetooth Headset

Brand Name: Plantronics

FCC ID: AL8-M25

IC: 457A-M25

Model No.: M25, M55

Model Difference: Exterior difference

File Number: EF/2011/C0007

Date of test: Dec. 28, 2011 ~ Jan. 09, 2011

Date of EUT Received: Dec. 28, 2011

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 RSS-Gen. issue 3:2010, 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:2007, §15.247 and RSS-210 issue 8: 2010 Annex 8.

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

Test By: Lion Wang **Date:** Jan. 10, 2012

Lion Wang / Engineer

Prepared By: Tiffany Kao **Date:** Jan. 10, 2012

Tiffany Kao / Clerk

Approved By: Jim Chang **Date:** Jan. 10, 2012

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Jan. 10, 2012	Initial creation of document

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name	Bluetooth Headset	
Brand Name	Plantronics	
Model No.	M25, M55	
Model Difference	Exterior difference	
Hardware Version	v1.0	
Software Version	BCM20745A0_MP_001.001.048.0201.0202	
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	Model No.: N/A, Supplier:N/A
	Adapter	1. Model No.: SSA-3W-05 050060F, Supplier: SIL 2. Model No.: SSA-5W-05 US 050018F, Supplier: SIL

Bluetooth:

Bluetooth Version	<input type="checkbox"/> V1.1 (GFSK)
	<input type="checkbox"/> V1.2 (GFSK)
	<input type="checkbox"/> V2.0 (GFSK)
	<input type="checkbox"/> V2.1 (GFSK)
	<input type="checkbox"/> V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
	<input type="checkbox"/> V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
	<input checked="" type="checkbox"/> V3.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Frequency Range	2402 – 2480MHz
Channel number	79 channels max.
Rated Power	5.99 dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum
Antenna Designation	Monopole antenna, -1.4dBi.

The EUT is compliance with Bluetooth V3.0 + EDR standard.

This test report applies for Bluetooth.

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

This submittal(s) (test report) is intended for **FCC ID: AL8-M25** filing to comply with Section 15.247 of the FCC Part 15C, Subpart C Rules. And **IC: 457A-M25** filing to comply with Industry Canada RSS-210 issue 8: 2010 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: 2010. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements

1.4. Test Facility

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

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

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

The EUT (Transmitter) was tested with a test program to fix the Tx/RX frequency that was for the purpose of the measurements. For more information please see test data and APPENDIX 1 for set-up photographs.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7, 13 of ANSI C63.4-2003 and RSS-Gen:2010. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 of ANSI C63.4-2003 and DA 00-705..

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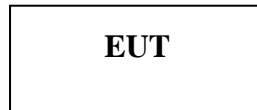
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2.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System

Radiated Emission



Remote Side



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.
1.	Bluetooth Test Set	Anritsu	MT8852B	6k00006107

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)/ RSS-Gen §7.2.4	AC Power line Conducted Emission	Compliant
§15.247(b)(1)/ RSS-210 issue 8,§A8.4(2)	Peak Output Power	Compliant
§15.247(d) RSS-210 issue 8,§A8.5	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(c) RSS-Gen §7.2.3 RSS-210 issue 8,§A2.9	TX/RX Spurious Emission	Compliant
§15.247(a)(1)/ RSS-210 issue 8,§A8.1(b)	Frequency Separation	Compliant
§15.247(a)(1)(iii)/ RSS-210 issue 8,§A8.1(d)	Number of hopping frequency	Compliant
§15.247(a)(1)(ii)/ RSS-210 issue 8,§A8.1(d)	Time of Occupancy	Compliant
§15.247/ RSS-210 issue 8,§A8.2(b)	Peak Power Density	Compliant
§15.247(a)(1) RSS210 issue 8,§A8.1(b)	20dB Bandwidth & 99% Power Bandwidth	Compliant
§15.203, §15.247(c)/ RSS-GEN 7.1.2, RSS-210 issue 8,§A8.4	Antenna Requirement	Compliant

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 worst case EDR mode and DH5 highest data rate are chosen for full testing.

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5. AC POWER LINE 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. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/23/2011	09/22/2012
LISN	Rolf-Heine	NNB-2/16Z	99012	03/31/2011	03/30/2012
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/31/2011	03/30/2012
Coaxial Cables	N/A	WK CE Cable	N/A	01/05/2012	01/04/2013

5.3. 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 EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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5.4. 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.

5.5. 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.

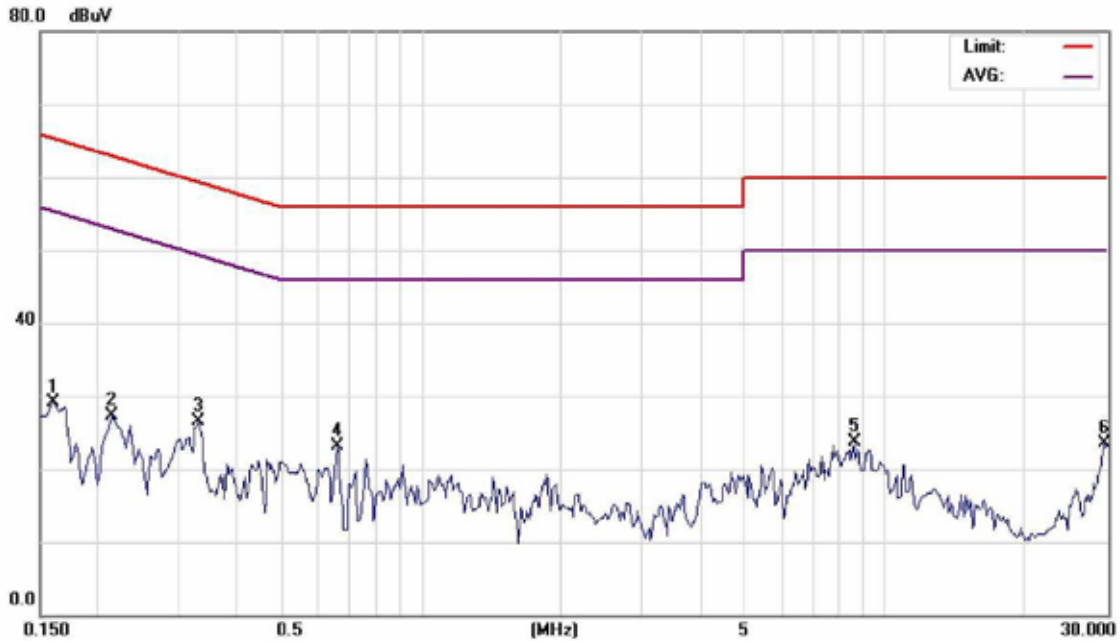
Note: Refer to next page for measurement data and plots.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Normal mode		Test Date:	Jan. 04, 2012	
Temperature:	23	Humidity:	58 %	Test By:	Lion



Site: SGS CONDUCTED #1
Limit: CISPR22/11/EN55022 Class B (QP)
EUT: Bluetooth Headset
M/N: M25
Note: BT LINK Mode

Phase: L1
Power: AC 120V/60Hz
Distance:

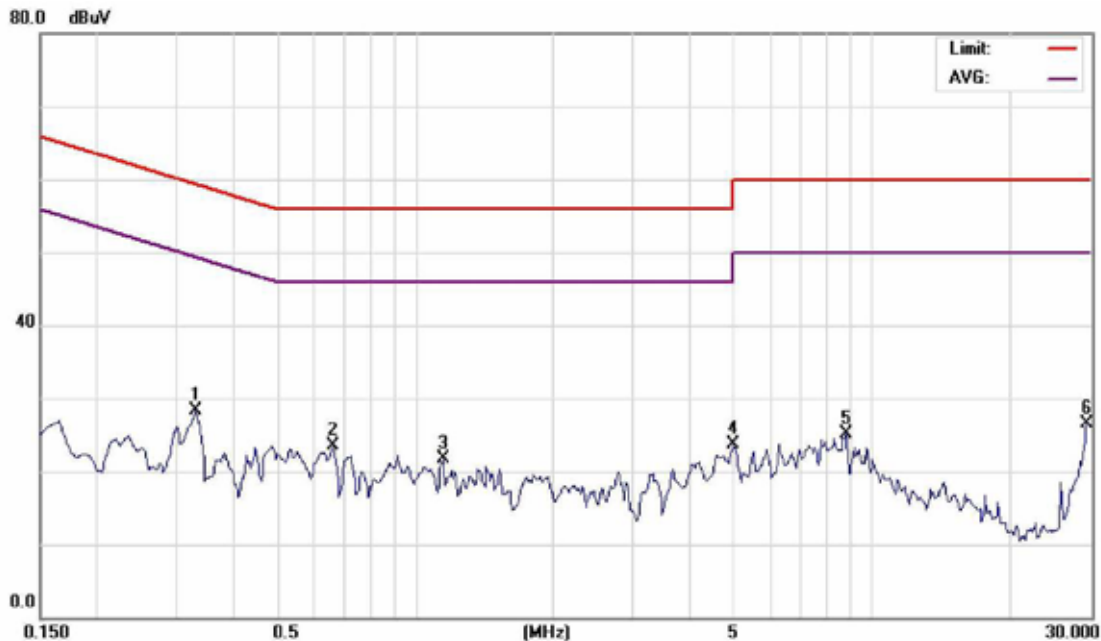
Temperature: 26 °C
Humidity: 59%
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1600	29.07	0.11	29.18	65.46	-36.28	peak	
2		0.2150	27.21	0.09	27.30	63.01	-35.71	peak	
3	*	0.3300	26.47	0.08	26.55	59.45	-32.90	peak	
4		0.6600	23.01	0.08	23.09	56.00	-32.91	peak	
5		8.6000	23.56	0.17	23.73	60.00	-36.27	peak	
6		29.9800	23.14	0.32	23.46	60.00	-36.54	peak	

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Site	SGS CONDUCTED #1	Phase:	N	Temperature:	26 °C
Limit:	CISPR22/11/EN55022 Class B (QP)	Power:	AC 120V/60Hz	Humidity:	59%
EUT:	Bluetooth Headset	Distance:		Air Pressure:	hpa
M/N:	M25/M55				
Note:	BT LINK Mode				

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.3300	28.15	0.12	28.27	59.45	-31.18	peak	
2		0.6600	23.32	0.12	23.44	56.00	-32.56	peak	
3		1.1500	21.60	0.12	21.72	56.00	-34.28	peak	
4		4.9900	23.52	0.16	23.68	56.00	-32.32	peak	
5		8.7800	24.81	0.20	25.01	60.00	-34.99	peak	
6		29.7600	26.04	0.40	26.44	60.00	-33.56	peak	

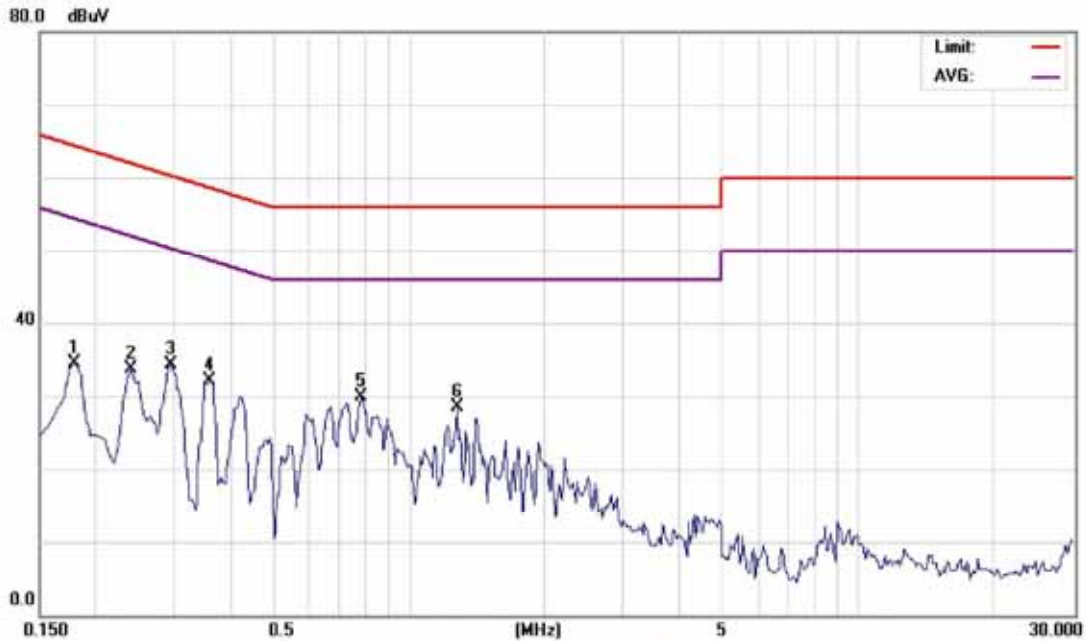
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Normal mode		Test Date:	Jan. 10, 2012	
Temperature:	23	Humidity:	58 %	Test By:	Lion



Site	SGS CONDUCTED #1	Phase:	L1	Temperature:	26 °C
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	59%
EUT:	Bluetooth Headset	Distance:		Air Pressure:	hpa
M/N:	M25M55				
Note:	BT LINK (New Adapter)				

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1800	34.44	0.10	34.54	64.49	-29.95	peak	
2		0.2400	33.52	0.09	33.61	62.10	-28.49	peak	
3		0.2950	34.22	0.09	34.31	60.38	-26.07	peak	
4		0.3600	32.10	0.08	32.18	58.73	-26.55	peak	
5	*	0.7800	29.92	0.08	30.00	56.00	-26.00	peak	
6		1.2800	28.34	0.08	28.42	56.00	-27.58	peak	

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Site	SGS CONDUCTED #1	Phase:	N	Temperature:	25 °C
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	59%
EUT:	Bluetooth Headset	Distance:		Air Pressure:	hpa
M/N:	M25M55				
Note:	BT LINK (New Adapter)				

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2400	33.54	0.13	33.67	62.10	-28.43	peak	
2		0.2950	33.80	0.13	33.93	60.38	-26.45	peak	
3	*	0.3700	32.48	0.12	32.60	58.50	-25.90	peak	
4		0.4250	29.94	0.12	30.06	57.35	-27.29	peak	
5		0.7400	28.58	0.12	28.70	56.00	-27.30	peak	
6		1.4900	27.12	0.13	27.25	56.00	-28.75	peak	

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6. PEAK OUTPUT POWER MEASUREMENT

6.1. Standard Applicable:

According to §15.247(b)(1), 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 8, §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 Equipment Used:

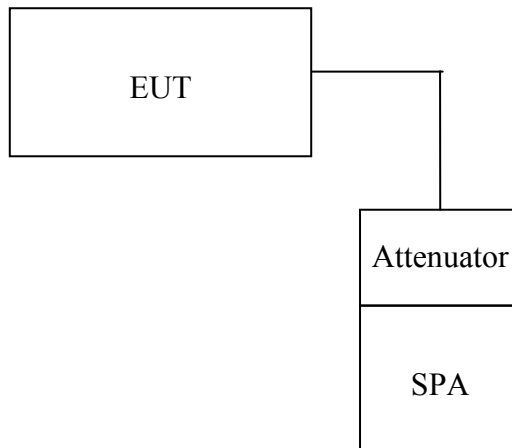
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
DC Block	Agilent	BLK-18	155452	07/05/2012	07/04/2013
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2012	01/04/2013
Attenuator	Mini-Circuit	BW-S6W5	001	01/05/2012	01/04/2013
Attenuator	Mini-Circuit	BW-S10W5	001	01/05/2012	01/04/2013
Attenuator	Mini-Circuit	BW-S20W5	001	01/05/2012	01/04/2013
Splitter	Agilent	11636B	N/A	01/05/2012	01/04/2013

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6.3. Test Set-up:



6.4. 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 power meter or spectrum. (Max peak function, RBW > 20dB bandwidth, VBW > RBW)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

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6.5. Measurement Result:

BDR mode:

Frequency (MHz)	Reading Power (dBm)	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	2.91	2.91	0.00195	1
2441.00	3.31	3.31	0.00214	1
2480.00	3.63	3.63	0.00231	1

EDR mode:

Frequency (MHz)	Reading Power (dBm)	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	5.16	5.16	0.00328	1
2441.00	5.77	5.77	0.00378	1
2480.00	5.99	5.99	0.00397	1

**Note: offset 16dB*

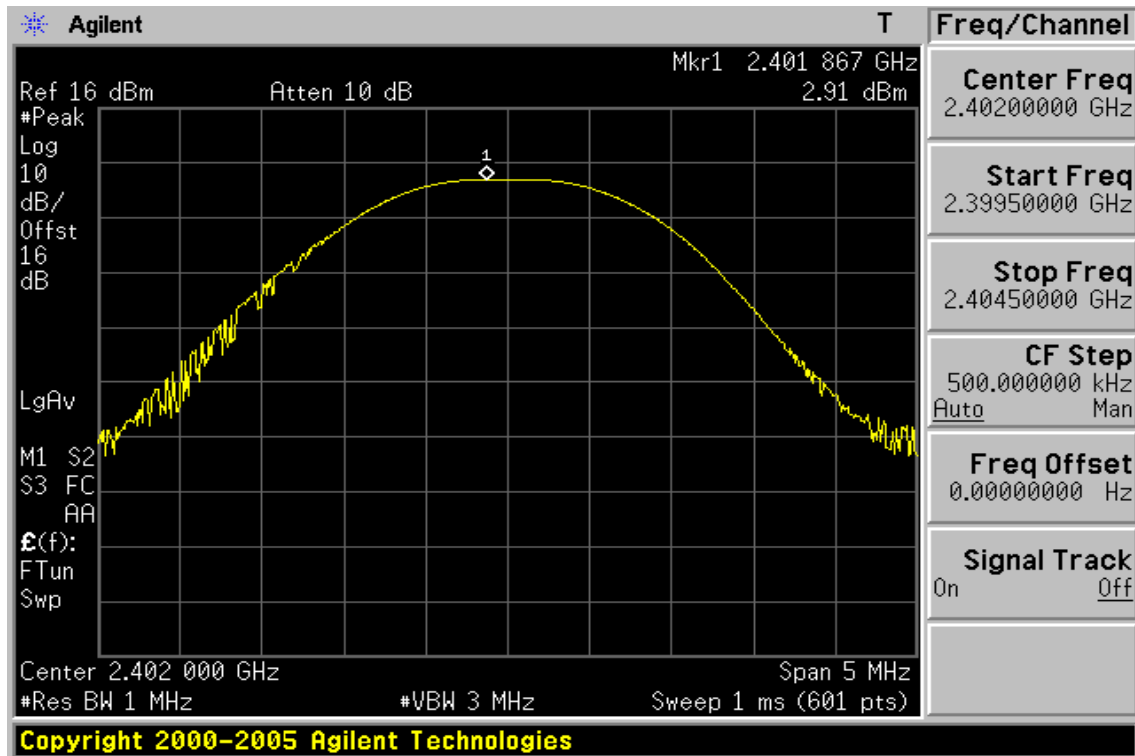
Refer to next page for plots.

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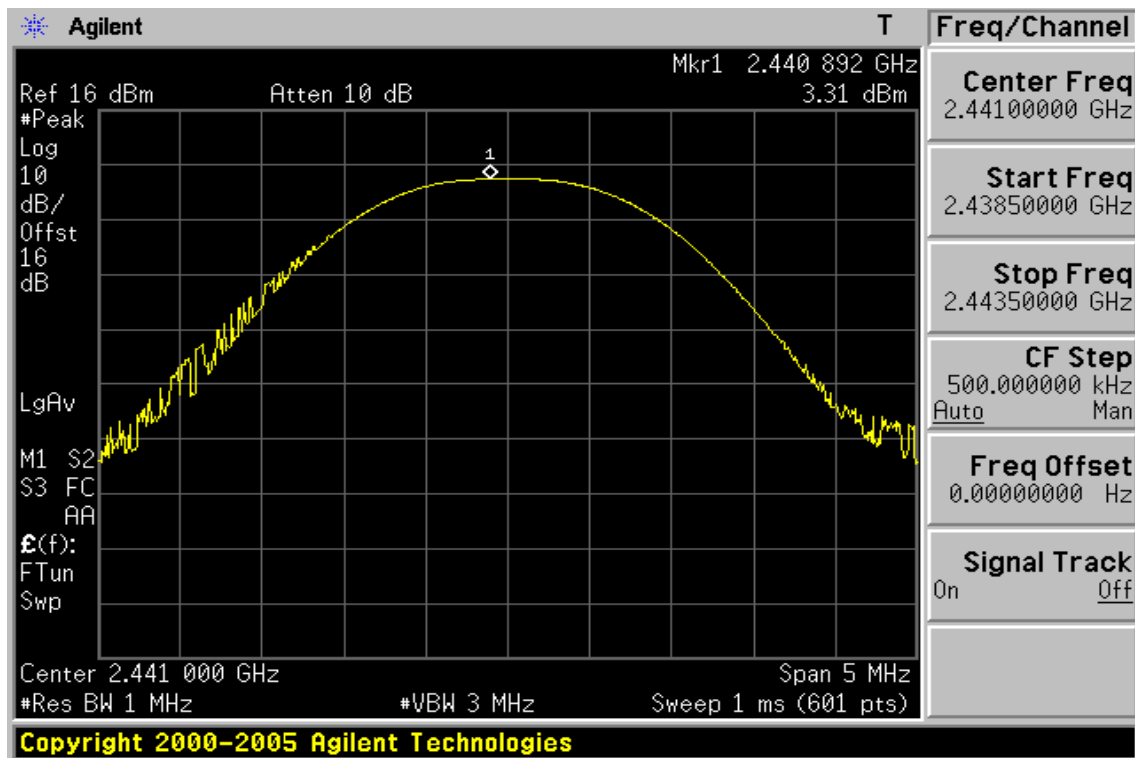
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Peak Power Output Data Plot (CH Low) (BDR mode)



Peak Power Output Data Plot (CH Mid) (BDR mode)

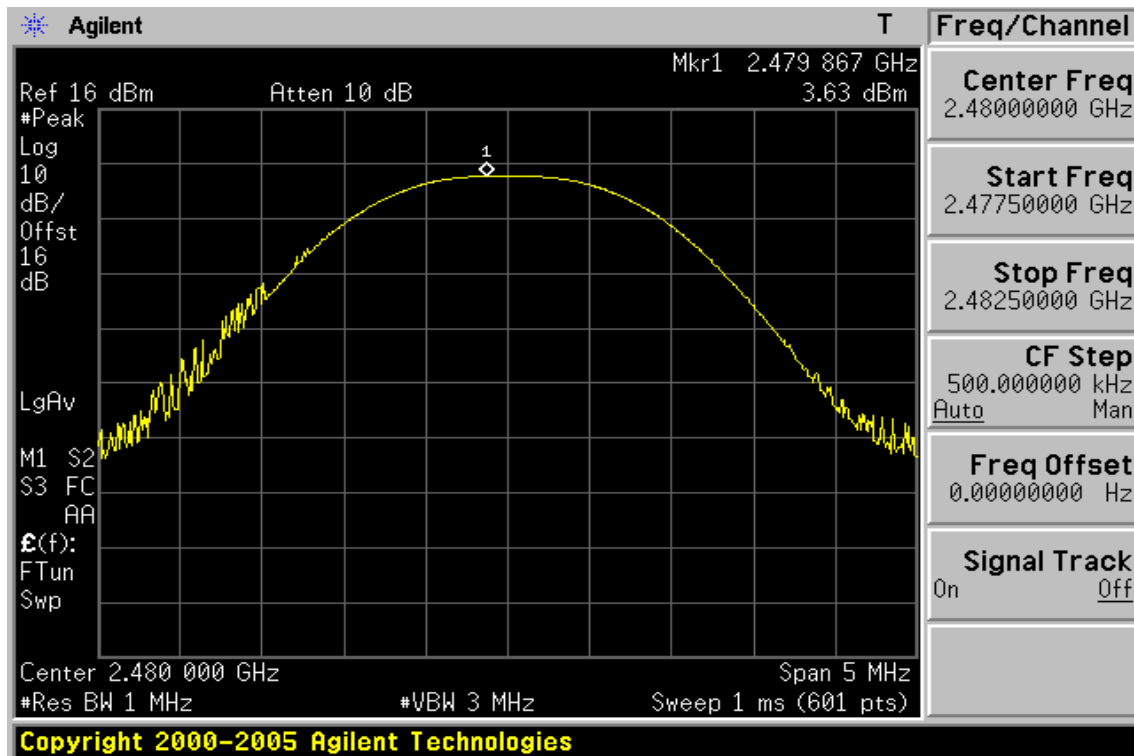


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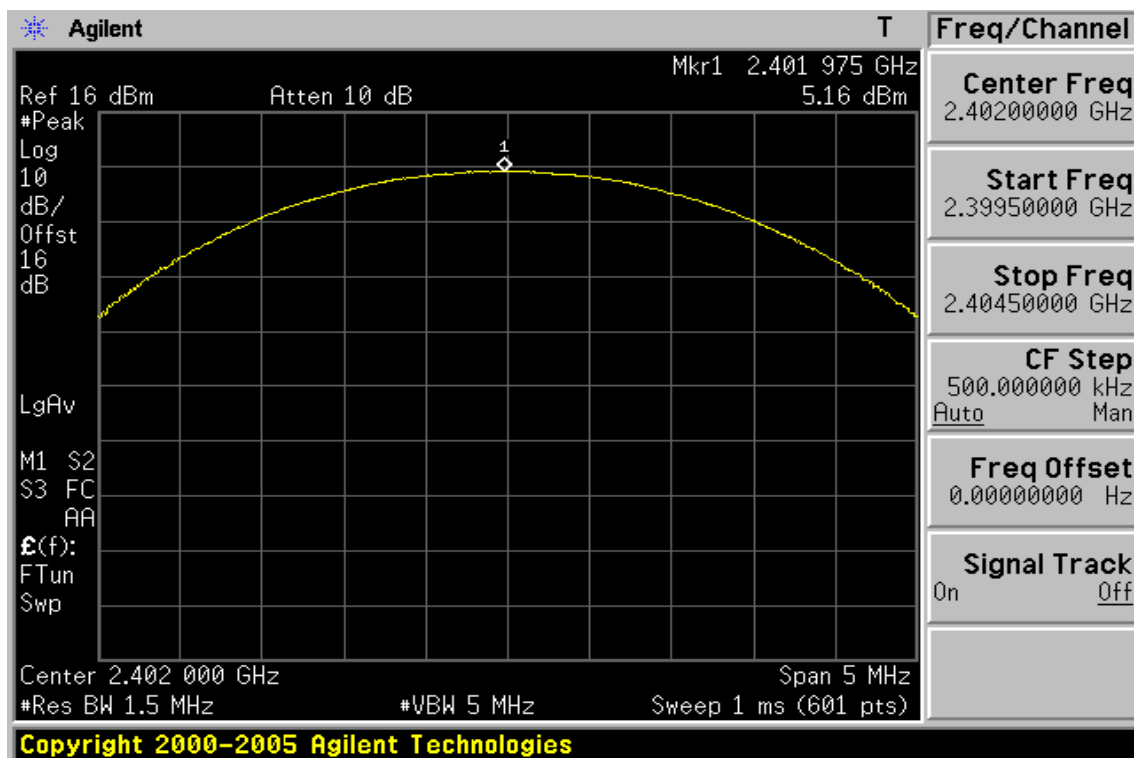
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Peak Power Output Data Plot (CH High) (BDR mode)



Peak Power Output Data Plot (CH Low) (EDR mode)

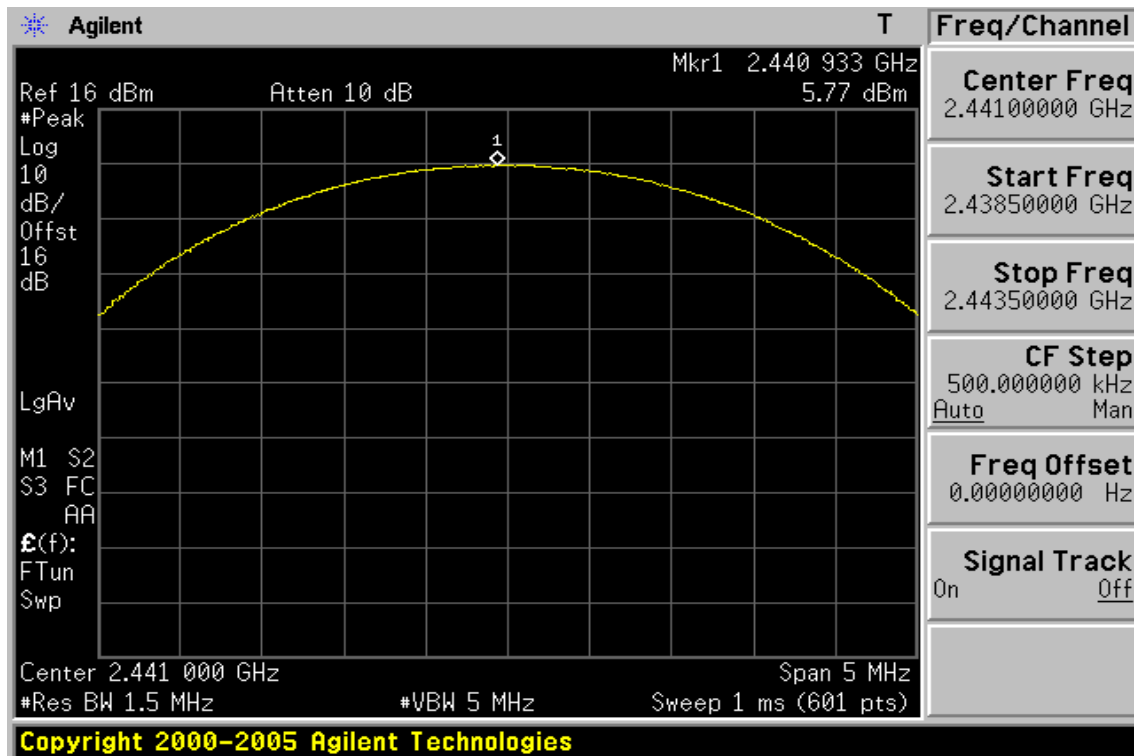


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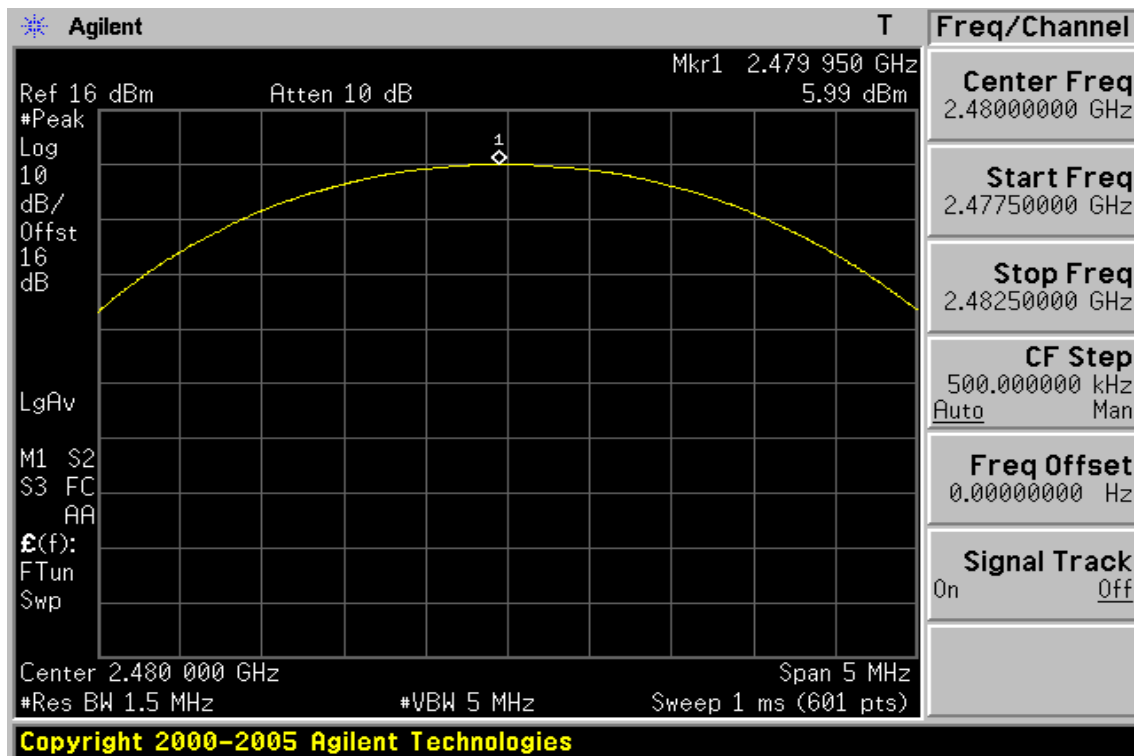
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Peak Power Output Data Plot (CH Mid) (EDR mode)



Peak Power Output Data Plot (CH High) (EDR mode)



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7. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

7.1. Standard Applicable:

According to §15.247(d), 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 8, §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.

7.2. Measurement Equipment Used:

7.2.1. Conducted Emission at antenna port:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
Spectrum Analyzer	R&S	FSP 40	100034	03/30/2011	03/29/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2012	01/04/2013
Attenuator	Mini-Circuit	BW-S6W5	N/A	01/05/2012	01/04/2013
Software	Audix	Ver 6.2009 – 23B	N/A	N/A	N/A

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7.2.2. Radiated emission:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	03/30/2011	03/29/2012
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2011	11/18/2013
Horn antenna	ETS.LINDGREN	3117	123995	03/19/2011	03/18/2013
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2011	11/27/2013
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2012	01/04/2013
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2012	01/04/2013
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2012	01/04/2013
3m Site	SGS	966 chamber	N/A	07/15/2011	07/14/2012

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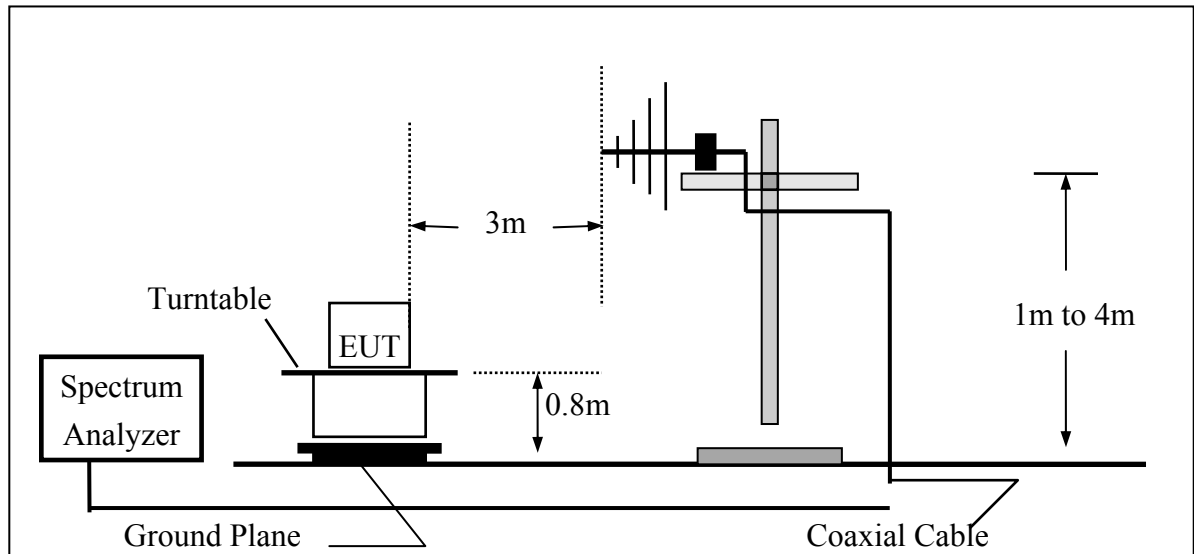
7.3. Test SET-UP:

7.3.1. Conducted Emission at antenna port:

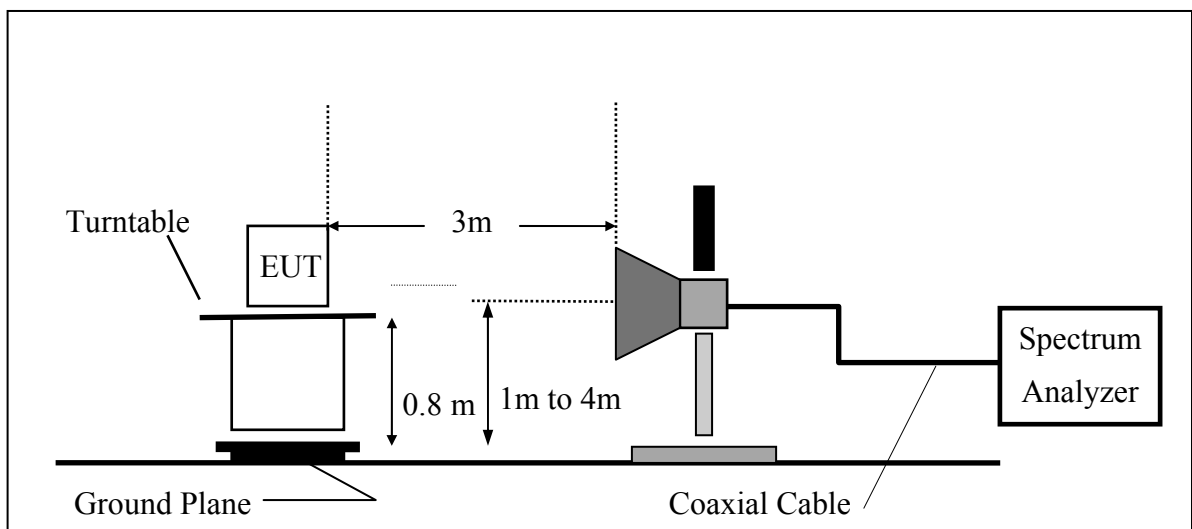
Refer to section 6.3 for details.

7.3.2. Radiated emission:

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



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



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7.4. 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 center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span=25MHz, Sweep = auto
5. Mark Peak, 2.390GHz and 2.4835GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

7.5. Field Strength Calculation

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

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

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

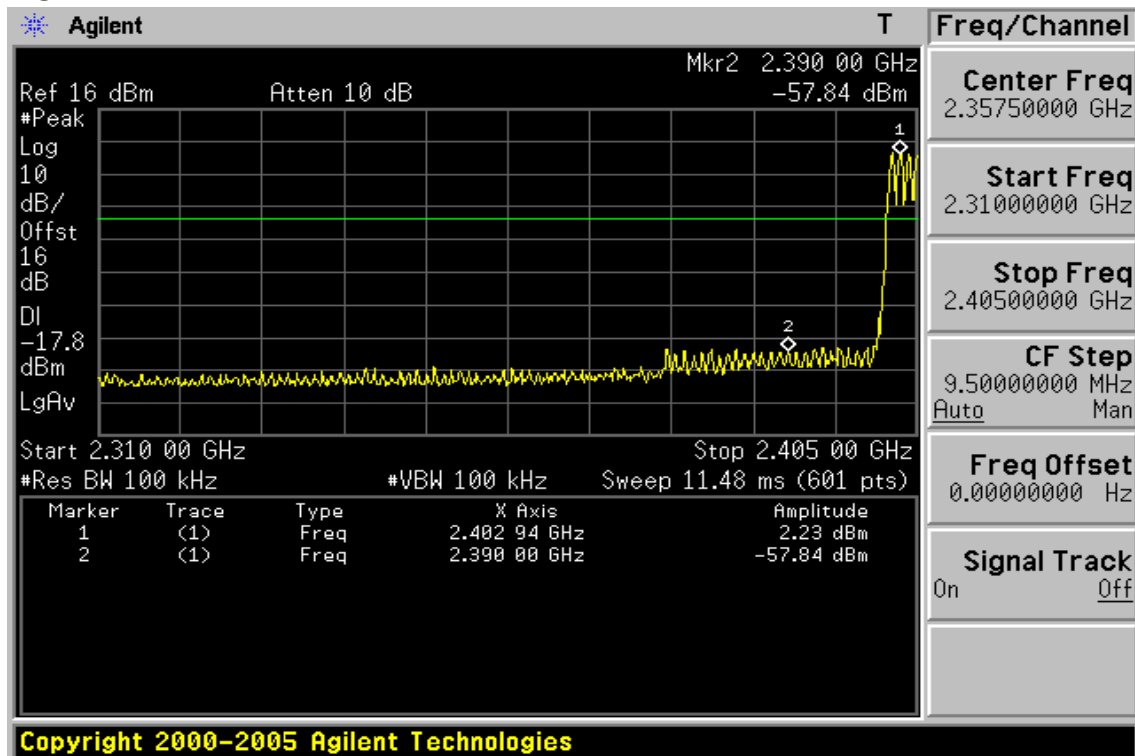
7.6. Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

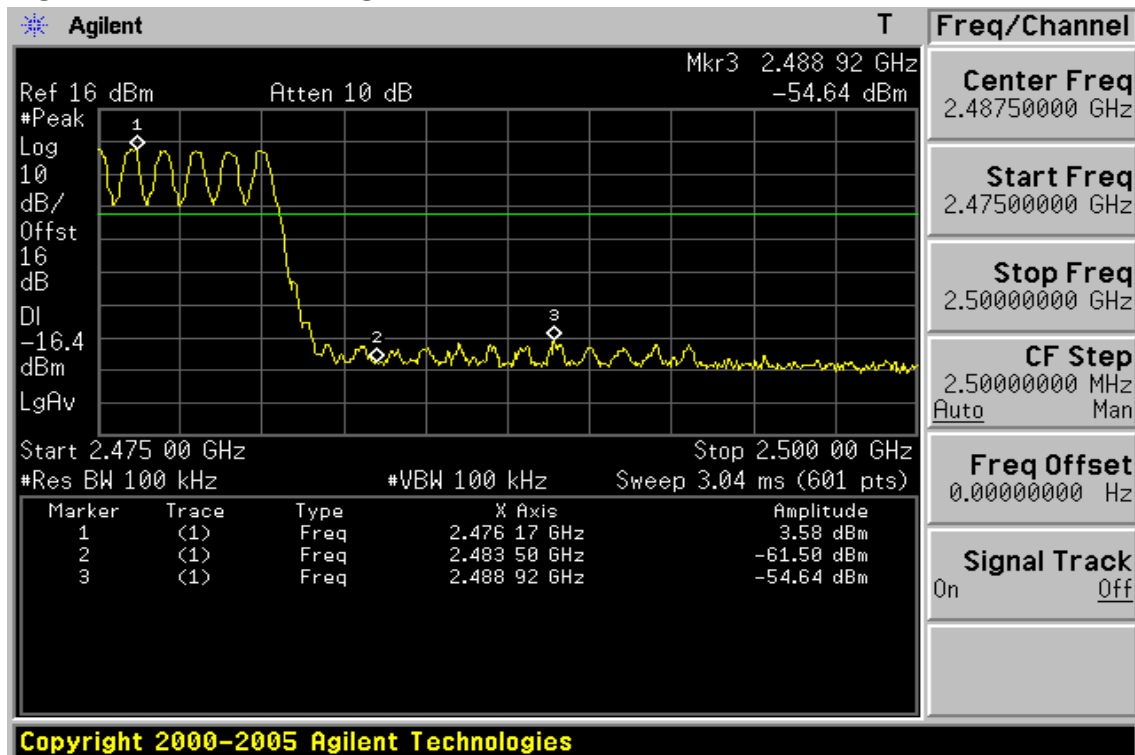
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BDR Mode (GFSK)
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: (BDR mode) (GFSK)

Operation Band	:BDR	Test Date	:2012-01-04
Fundamental Frequency	:2402 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:Bandedge	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
2390.00	E	Average	32.57	6.15	38.72	54.00	-15.28
2390.00	E	Peak	44.44	6.15	50.59	74.00	-23.41

Operation Band	:BDR	Test Date	:2012-01-04
Fundamental Frequency	:2402 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:Bandedge	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
2390.00	E	Average	32.78	6.77	39.55	54.00	-14.45
2390.00	E	Peak	43.41	6.77	50.18	74.00	-23.82

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Radiated Emission:

Operation Band	:BDR	Test Date	:2012-01-04
Fundamental Frequency	:2480 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:Bandedge	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
2483.50	E	Average	32.70	6.57	39.27	54.00	-14.73
2483.50	E	Peak	43.71	6.57	50.28	74.00	-23.72

Operation Band	:BDR	Test Date	:2012-01-04
Fundamental Frequency	:2480 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:Bandedge	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

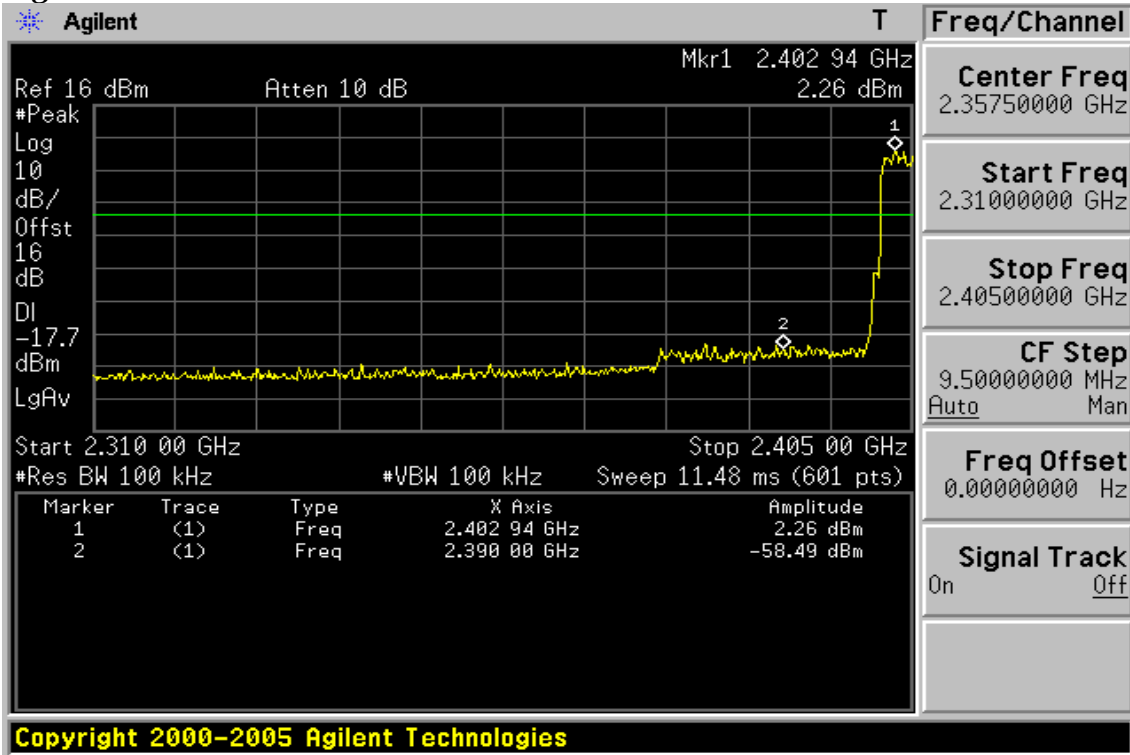
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
2483.50	E	Average	32.51	7.60	40.11	54.00	-13.89
2483.50	E	Peak	43.58	7.60	51.18	74.00	-22.82

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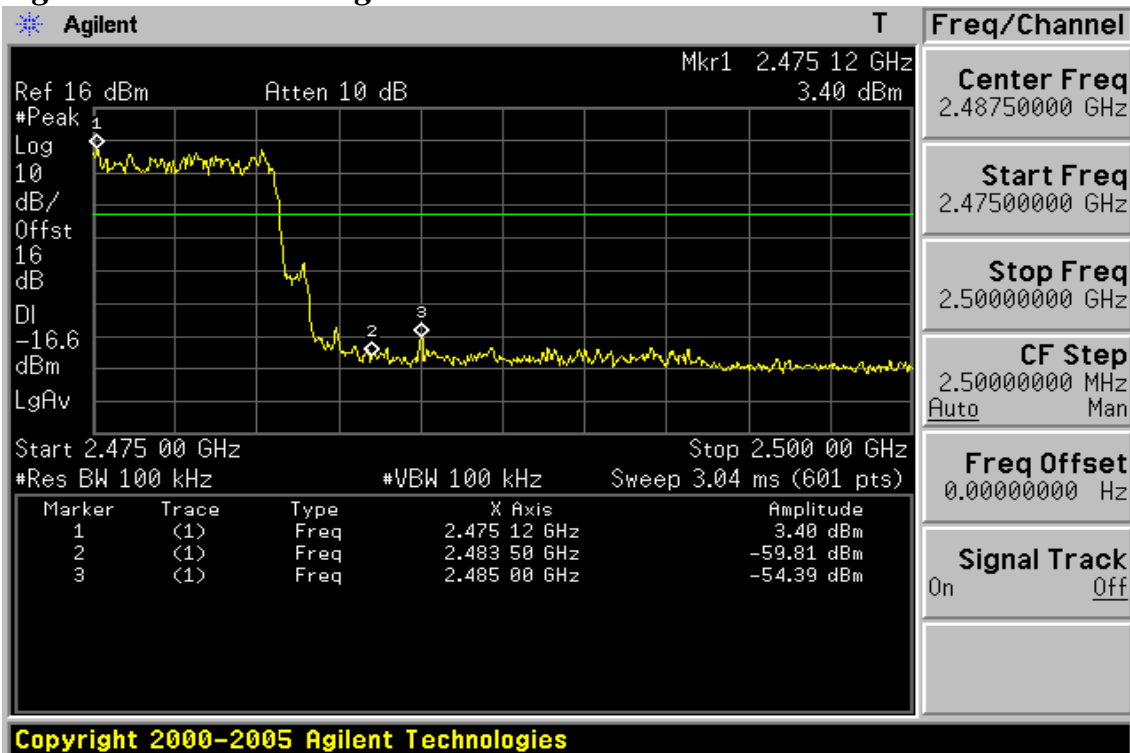
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EDR Mode
Band Edges Test Data CH-Low



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Band Edges Test Data CH-High



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Radiated Emission:

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2402 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:Bandedge	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
2390.00	E	Average	32.52	6.15	38.67	54.00	-15.33
2390.00	E	Peak	44.69	6.15	50.84	74.00	-23.16

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2402 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:Bandedge	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
2390.00	E	Average	32.78	6.77	39.55	54.00	-14.45
2390.00	E	Peak	44.91	6.77	51.68	74.00	-22.32

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Radiated Emission:

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2480 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:Bandedge	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
2483.50	E	Average	32.87	6.57	39.44	54.00	-14.56
2483.50	E	Peak	43.69	6.57	50.26	74.00	-23.74

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2480 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:Bandedge	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
2483.50	E	Average	32.53	7.60	40.13	54.00	-13.87
2483.50	E	Peak	44.80	7.60	52.40	74.00	-21.60

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8. SPURIOUS EMISSION TEST

8.1. Standard Applicable:

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

According to RSS-Gen §7.2.3 and RSS-210 issue 8, §A2.9, 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 Equipment Used:

8.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

8.2.2. Radiated emission:

Refer to section 7.2.2 for details.

8.3. Test SET-UP:

8.3.1. Conducted Emission at antenna port:

Refer to section 6.3 for details.

8.3.2. Radiated emission:

Refer to section 7.3.2 for details.

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8.4. 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. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency measured were complete.

Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100K & VBW = 100K on Spectrum.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 3G, 3G to 8G, 8G to 13G, 13G to 18G and 18G to 26.5GHz
4. Via Software, combine 5 spans of frequency range into one plot

8.5. Field Strength Calculation

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

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

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

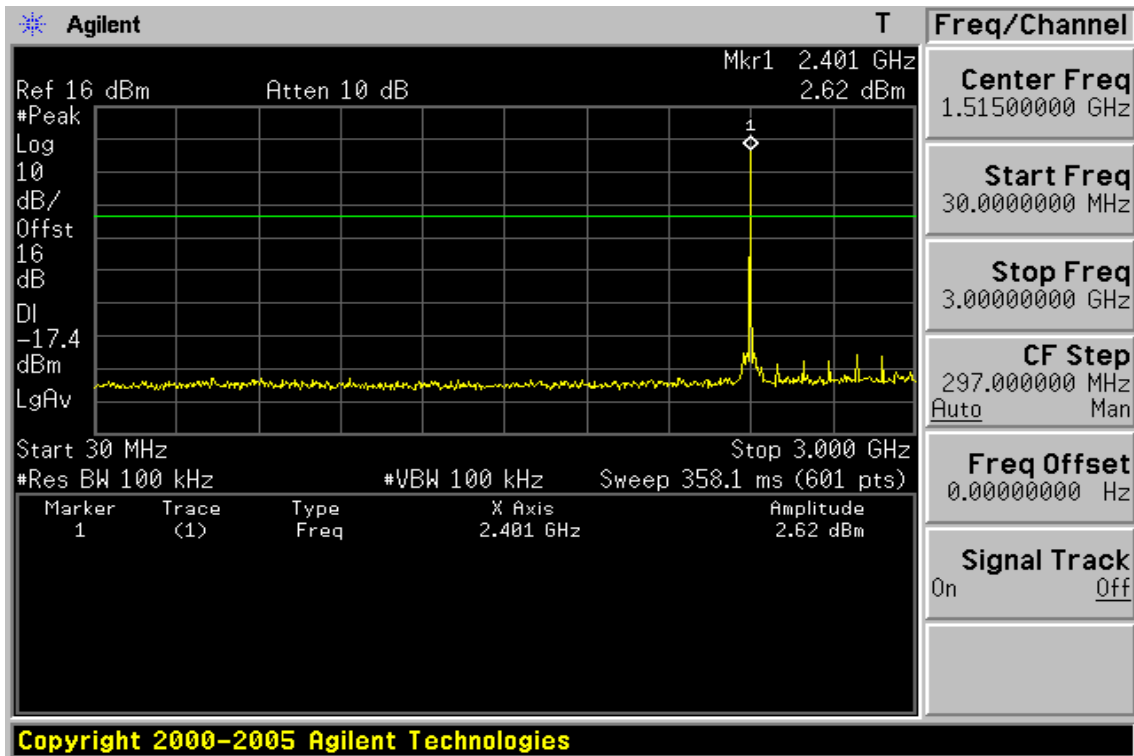
8.6. Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

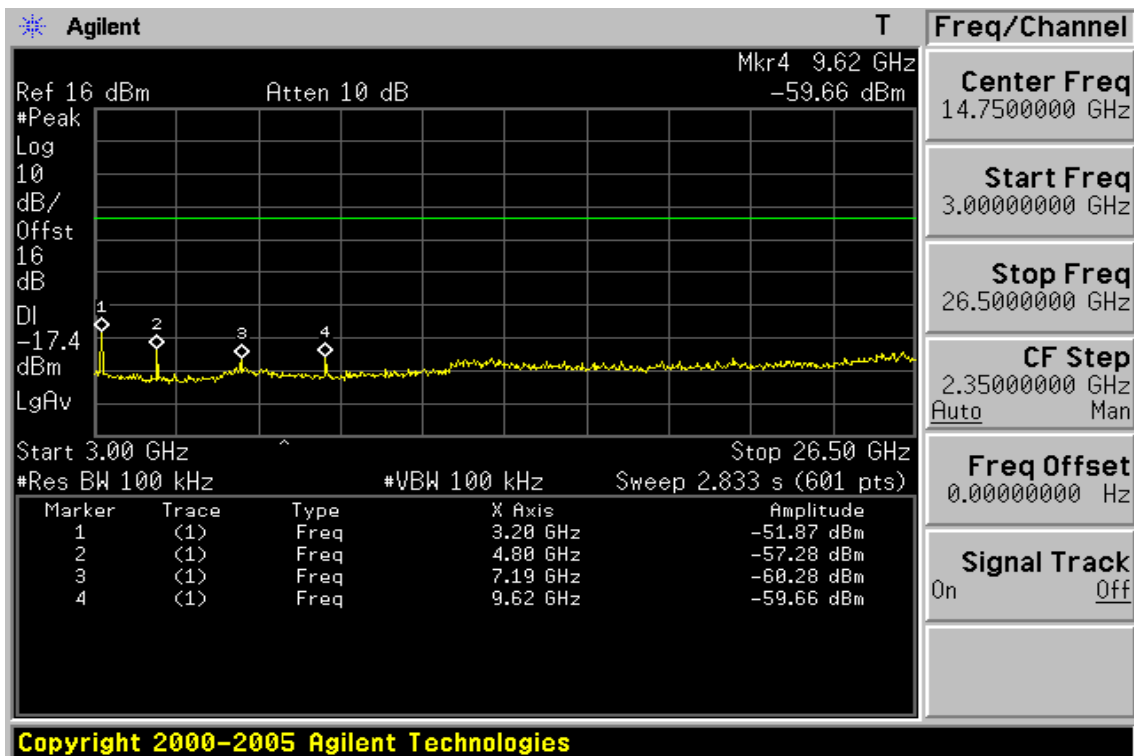
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Conducted Spurious Emission Measurement Result (Worst EDR mode)
Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz

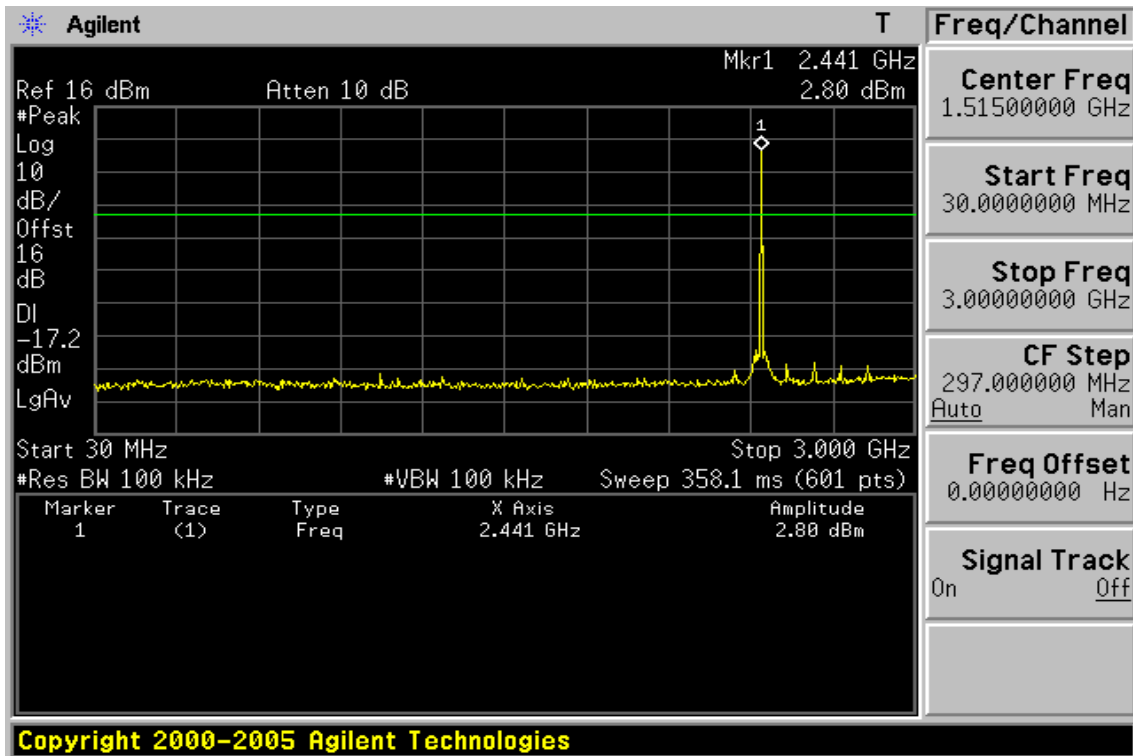


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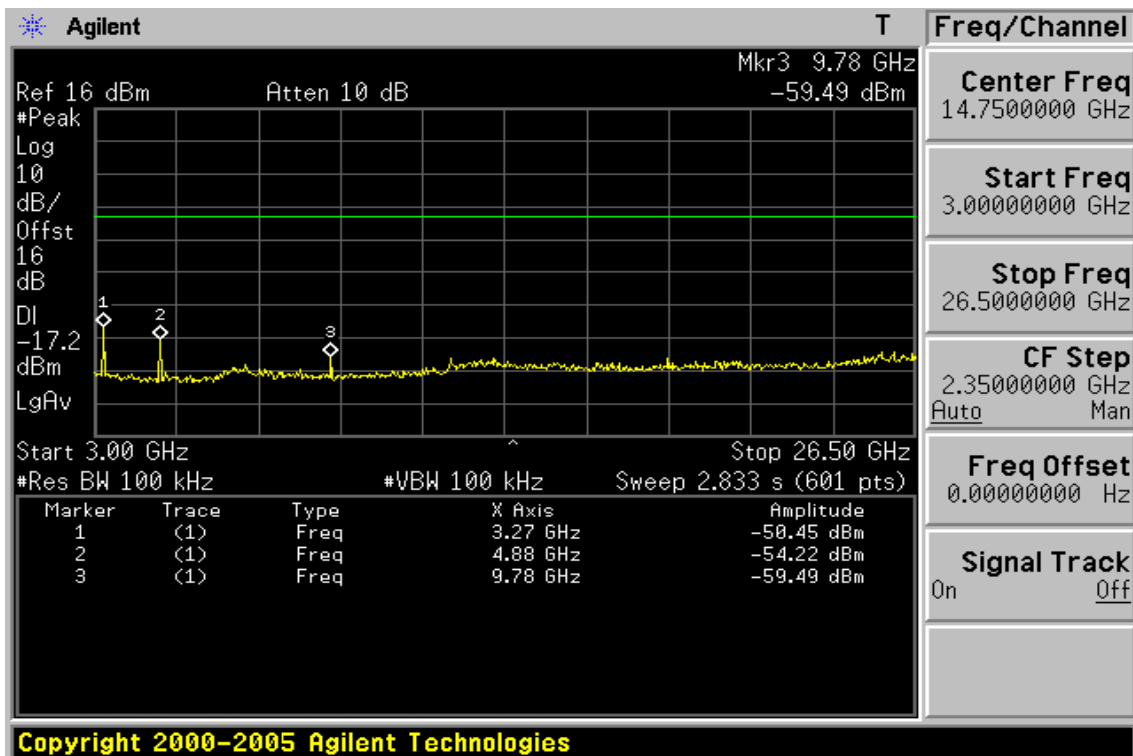
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz

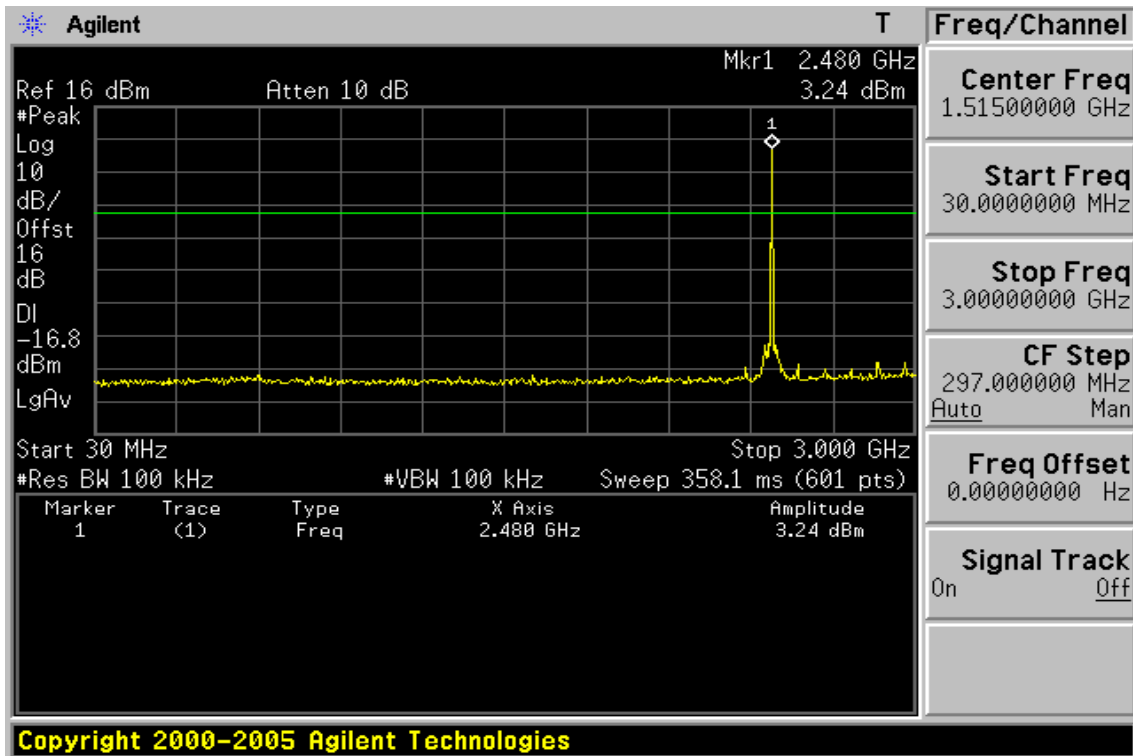


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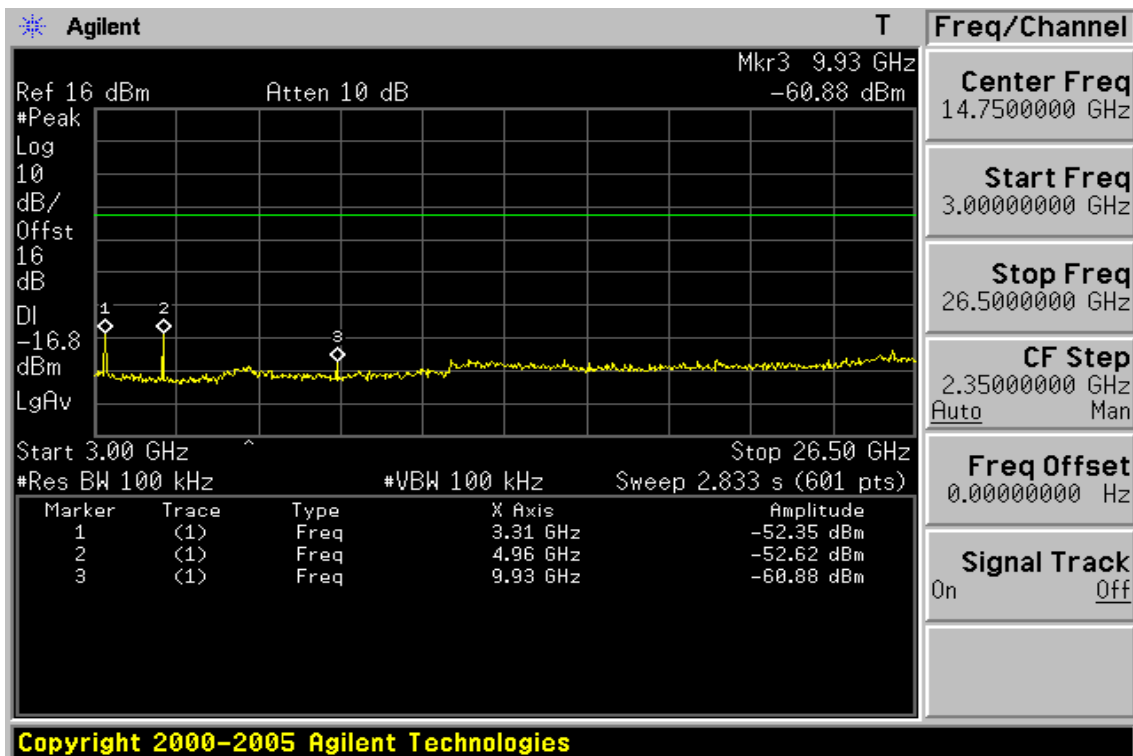
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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Radiated Spurious Emission Measurement Result (Worst EDR mode)

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2402 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX LOW	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
150.28	S	Peak	37.73	-11.81	25.92	63.50	-37.58
262.80	S	Peak	37.28	-12.86	24.42	66.00	-41.58
361.74	S	Peak	37.04	-10.73	26.31	66.00	-39.69
443.22	S	Peak	37.51	-9.41	28.10	66.00	-37.90
657.59	S	Peak	38.33	-5.74	32.59	66.00	-33.41
834.13	S	Peak	38.48	-3.07	35.41	66.00	-30.59
4804.00	H	Peak	36.30	9.95	46.25	74.00	-27.75
7206.00	H	---					
9608.00	H	---					
12010.00	H	---					
14412.00	H	---					
16814.00	H	---					
19216.00	H	---					
21618.00	H	---					
24020.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2402 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX LOW	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
147.37	S	Peak	37.12	-11.90	25.22	63.50	-38.28
287.05	S	Peak	37.44	-12.13	25.31	66.00	-40.69
366.59	S	Peak	37.20	-10.64	26.56	66.00	-39.44
437.40	S	Peak	37.36	-9.53	27.83	66.00	-38.17
492.69	S	Peak	38.01	-8.88	29.13	66.00	-36.87
840.92	S	Peak	38.23	-2.94	35.29	66.00	-30.71
4804.00	H	Peak	35.02	9.99	45.01	74.00	-28.99
7206.00	H	---					
9608.00	H	---					
12010.00	H	---					
14412.00	H	---					
16814.00	H	---					
19216.00	H	---					
21618.00	H	---					
24020.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2441 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX MID	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
152.22	S	Peak	37.75	-11.62	26.13	63.50	-37.37
287.05	S	Peak	37.32	-12.13	25.19	66.00	-40.81
371.44	S	Peak	37.06	-10.60	26.46	66.00	-39.54
428.67	S	Peak	37.96	-9.69	28.27	66.00	-37.73
496.57	S	Peak	37.51	-8.83	28.68	66.00	-37.32
871.96	S	Peak	37.38	-2.56	34.82	66.00	-31.18
4882.00	H	Average	37.59	10.28	47.87	54.00	-6.13
4882.00	H	Peak	40.90	10.28	51.18	74.00	-22.82
7323.00	H	---					
9764.00	H	---					
12205.00	H	---					
14646.00	H	---					
17087.00	H	---					
19528.00	H	---					
21969.00	H	---					
24410.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2441 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX MID	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
158.04	S	Peak	37.81	-11.77	26.04	63.50	-37.46
286.08	S	Peak	37.03	-12.09	24.94	66.00	-41.06
367.56	S	Peak	37.40	-10.62	26.78	66.00	-39.22
447.10	S	Peak	37.71	-9.36	28.35	66.00	-37.65
499.48	S	Peak	38.06	-8.79	29.27	66.00	-36.73
869.05	S	Peak	38.00	-2.61	35.39	66.00	-30.61
4882.00	H	Peak	39.70	10.22	49.92	74.00	-24.08
7323.00	H	---					
9764.00	H	---					
12205.00	H	---					
14646.00	H	---					
17087.00	H	---					
19528.00	H	---					
21969.00	H	---					
24410.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2480 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX HIGH	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
194.90	S	Peak	41.88	-15.13	26.75	63.50	-36.75
281.23	S	Peak	36.96	-12.22	24.74	66.00	-41.26
367.56	S	Peak	37.09	-10.62	26.47	66.00	-39.53
448.07	S	Peak	37.43	-9.33	28.10	66.00	-37.90
498.51	S	Peak	38.04	-8.82	29.22	66.00	-36.78
879.72	S	Peak	37.45	-2.40	35.05	66.00	-30.95
4960.00	H	Average	41.25	10.91	52.16	54.00	-1.84
4960.00	H	Peak	44.95	10.91	55.86	74.00	-18.14
7440.00	H	---					
9920.00	H	---					
12400.00	H	---					
14880.00	H	---					
17360.00	H	---					
19840.00	H	---					
22320.00	H	---					
24800.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2480 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX HIGH	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
146.40	S	Peak	37.56	-11.97	25.59	63.50	-37.91
288.02	S	Peak	37.52	-12.07	25.45	66.00	-40.55
375.32	S	Peak	36.88	-10.55	26.33	66.00	-39.67
446.13	S	Peak	37.40	-9.35	28.05	66.00	-37.95
495.60	S	Peak	37.84	-8.84	29.00	66.00	-37.00
872.93	S	Peak	37.33	-2.55	34.78	66.00	-31.22
4960.00	H	Peak	39.56	10.76	50.32	74.00	-23.68
7440.00	H	---					
9920.00	H	---					
12400.00	H	---					
14880.00	H	---					
17360.00	H	---					
19840.00	H	---					
22320.00	H	---					
24800.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2402 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
143.49	S	Peak	38.25	-12.20	26.05	63.50	-37.45
297.72	S	Peak	36.33	-12.00	24.33	66.00	-41.67
355.92	S	Peak	37.27	-10.99	26.28	66.00	-39.72
448.07	S	Peak	37.12	-9.42	27.70	66.00	-38.30
487.84	S	Peak	38.82	-9.04	29.78	66.00	-36.22
883.60	S	Peak	37.55	-2.44	35.11	66.00	-30.89
4804.00	H	Peak	34.06	9.95	44.01	74.00	-29.99
7206.00	H	---					
9608.00	H	---					
12010.00	H	---					
14412.00	H	---					
16814.00	H	---					
19216.00	H	---					
21618.00	H	---					
24020.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2402 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
147.37	S	Peak	36.56	-11.93	24.63	63.50	-38.87
272.50	S	Peak	37.82	-12.64	25.18	66.00	-40.82
360.77	S	Peak	37.66	-10.80	26.86	66.00	-39.14
441.28	S	Peak	38.42	-9.52	28.90	66.00	-37.10
492.69	S	Peak	38.34	-8.96	29.38	66.00	-36.62
865.17	S	Peak	37.43	-2.72	34.71	66.00	-31.29
4804.00	H	Peak	34.69	9.99	44.68	74.00	-29.32
7206.00	H	---					
9608.00	H	---					
12010.00	H	---					
14412.00	H	---					
16814.00	H	---					
19216.00	H	---					
21618.00	H	---					
24020.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2441 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
192.96	S	Peak	41.80	-15.14	26.66	63.50	-36.84
296.75	S	Peak	36.29	-11.99	24.30	66.00	-41.70
362.71	S	Peak	37.15	-10.80	26.35	66.00	-39.65
439.34	S	Peak	37.84	-9.59	28.25	66.00	-37.75
500.45	S	Peak	37.52	-8.84	28.68	66.00	-37.32
889.42	S	Peak	36.92	-2.34	34.58	66.00	-31.42
4882.00	H	Peak	34.27	10.28	44.55	74.00	-29.45
7323.00	H	---					
9764.00	H	---					
12205.00	H	---					
14646.00	H	---					
17087.00	H	---					
19528.00	H	---					
21969.00	H	---					
24410.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2441 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
155.13	S	Peak	37.23	-11.72	25.51	63.50	-37.99
287.05	S	Peak	37.09	-12.24	24.85	66.00	-41.15
370.47	S	Peak	36.80	-10.72	26.08	66.00	-39.92
440.31	S	Peak	37.49	-9.56	27.93	66.00	-38.07
490.75	S	Peak	38.14	-9.01	29.13	66.00	-36.87
882.63	S	Peak	37.59	-2.45	35.14	66.00	-30.86
4882.00	H	Peak	34.75	10.22	44.97	74.00	-29.03
7323.00	H	---					
9764.00	H	---					
12205.00	H	---					
14646.00	H	---					
17087.00	H	---					
19528.00	H	---					
21969.00	H	---					
24410.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2480 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
143.49	S	Peak	39.05	-12.20	26.85	63.50	-36.65
290.93	S	Peak	37.08	-12.15	24.93	66.00	-41.07
347.19	S	Peak	37.16	-11.08	26.08	66.00	-39.92
444.19	S	Peak	37.36	-9.50	27.86	66.00	-38.14
491.72	S	Peak	37.90	-9.01	28.89	66.00	-37.11
845.77	S	Peak	38.16	-3.02	35.14	66.00	-30.86
4960.00	H	Peak	33.68	10.91	44.59	74.00	-29.41
7440.00	H	---					
9920.00	H	---					
12400.00	H	---					
14880.00	H	---					
17360.00	H	---					
19840.00	H	---					
22320.00	H	---					
24800.00	H	---					

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Radiated Spurious Emission Measurement Result

Operation Band	:EDR	Test Date	:2012-01-04
Fundamental Frequency	:2480 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Lion
EUT Pol.	:H	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
156.10	S	Peak	36.68	-11.68	25.00	63.50	-38.50
287.05	S	Peak	37.43	-12.24	25.19	66.00	-40.81
371.44	S	Peak	37.51	-10.74	26.77	66.00	-39.23
441.28	S	Peak	37.15	-9.52	27.63	66.00	-38.37
500.45	S	Peak	37.84	-8.84	29.00	66.00	-37.00
867.11	S	Peak	37.31	-2.71	34.60	66.00	-31.40
4960.00	H	Peak	33.68	10.76	44.44	74.00	-29.56
7440.00	H	---					
9920.00	H	---					
12400.00	H	---					
14880.00	H	---					
17360.00	H	---					
19840.00	H	---					
22320.00	H	---					
24800.00	H	---					

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9. FREQUENCY SEPARATION

9.1. 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 8, A8.1(b), 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.

9.2. Measurement Equipment Used:

Refer to section 6.2 for details.

9.3. Test Set-up:

Refer to section 6.3 for details.

9.4. 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 center frequency of spectrum analyzer = middle of hopping channel .
4. Set the spectrum analyzer as RBW,VBW=100KHz, Adjust Span to 3.0 MHz, Sweep = auto.
5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

9.5. Measurement Result:

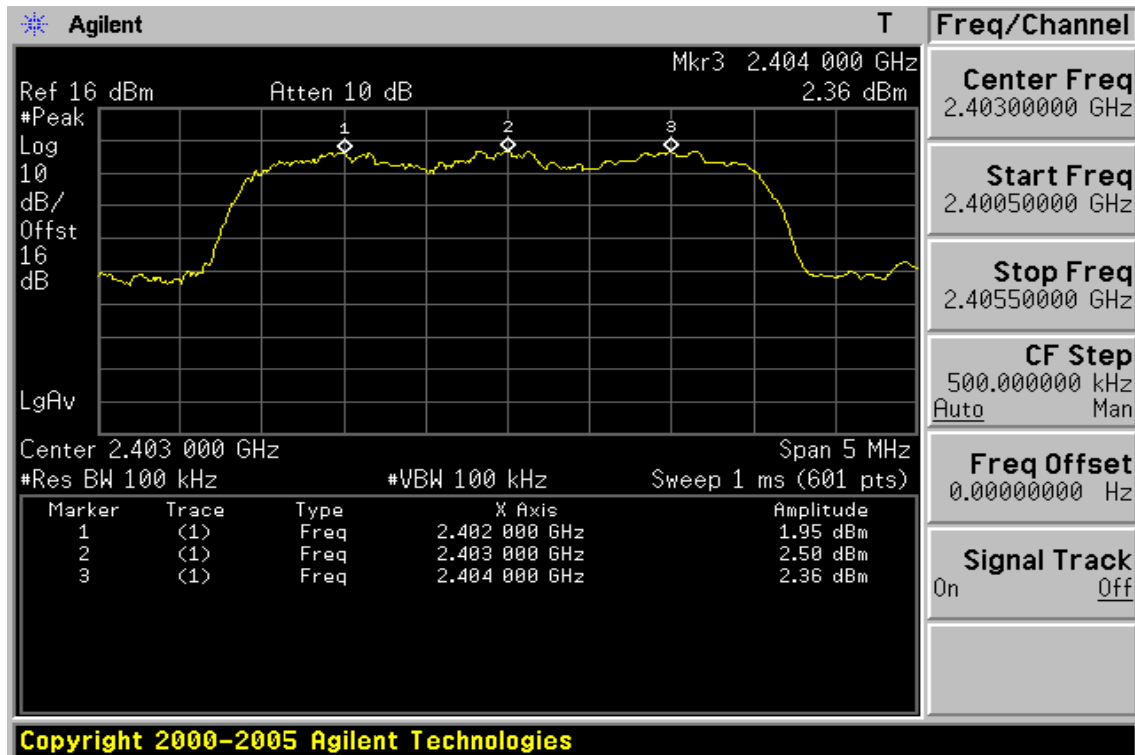
Channel separation (MHz)	Limit	Result
1	≥ 25 KHz or 2/3 times 20 dB bandwidth	PASS

Note: Refer to next page for plots.

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Frequency Separation Test Data



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10. NUMBER OF HOPPING FREQUENCY

10.1. 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 8, §A8.1(d), 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.

10.2. Measurement Equipment Used:

Refer to section 6.2 for details.

10.3. Test Set-up:

Refer to section 6.3 for details.

10.4. 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 spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
4. Set the spectrum analyzer as RBW=430KHz, VBW=1.5MHz,
5. Max hold, view and count how many channel in the band.

10.5. Measurement Result:

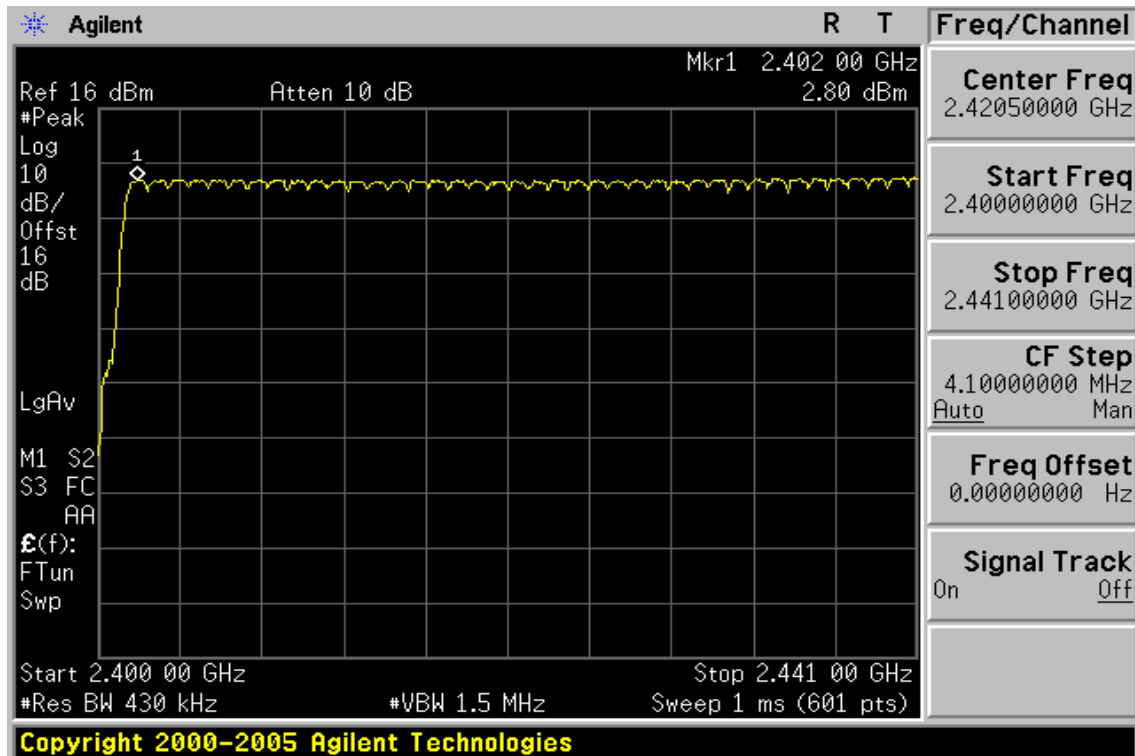
Note: Refer to next page for plots.

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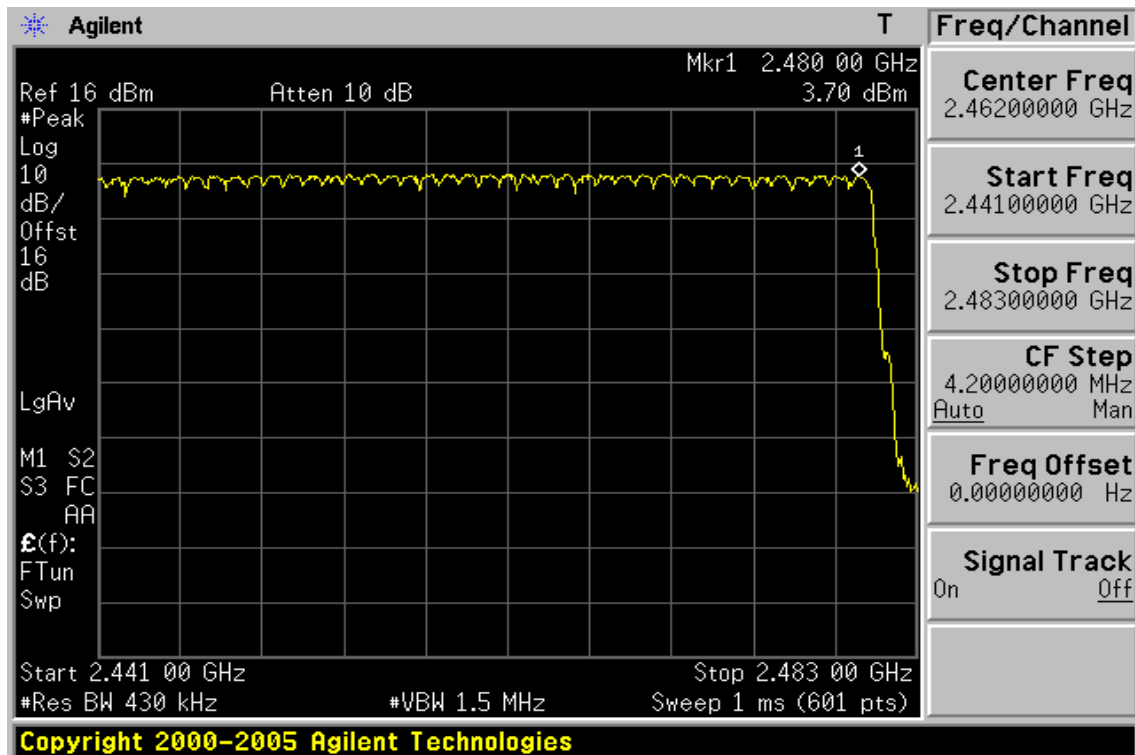
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Channel Number
2.4 GHz – 2.441GHz



2.441 GHz – 2.4835GHz



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11. TIME OF OCCUPANCY (DWELL TIME)

11.1. 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 8, §A8.1(d), 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.

11.2. Measurement Equipment Used:

Refer to section 6.2 for details.

11.3. Test Set-up:

Refer to section 6.3 for details.

11.4. 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 center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span = 0Hz , Adjust Sweep = 15ms.
5. Repeat above procedures until all frequency measured were complete.

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11.5. Measurement Result:

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

CH Low: DH1 time slot = 0.383 (ms) * (1600/(2*79)) * 31.6 = 122.56 (ms)

DH3 time slot = 1.642 (ms) * (1600/(4*79)) * 31.6 = 262.72 (ms)

DH5 time slot = 2.883 (ms) * (1600/(6*79)) * 31.6 = 307.52 (ms)

CH Mid: DH1 time slot = 0.383 (ms) * (1600/(2*79)) * 31.6 = 122.56 (ms)

DH3 time slot = 1.642 (ms) * (1600/(4*79)) * 31.6 = 262.72 (ms)

DH5 time slot = 2.883 (ms) * (1600/(6*79)) * 31.6 = 307.52 (ms)

CH High: DH1 time slot = 0.387 (ms) * (1600/(2*79)) * 31.6 = 122.56(ms)

DH3 time slot = 1.633 (ms) * (1600/(4*79)) * 31.6 = 262.72 (ms)

DH5 time slot = 2.895 (ms) * (1600/(6*79)) * 31.6 = 307.52 (ms)

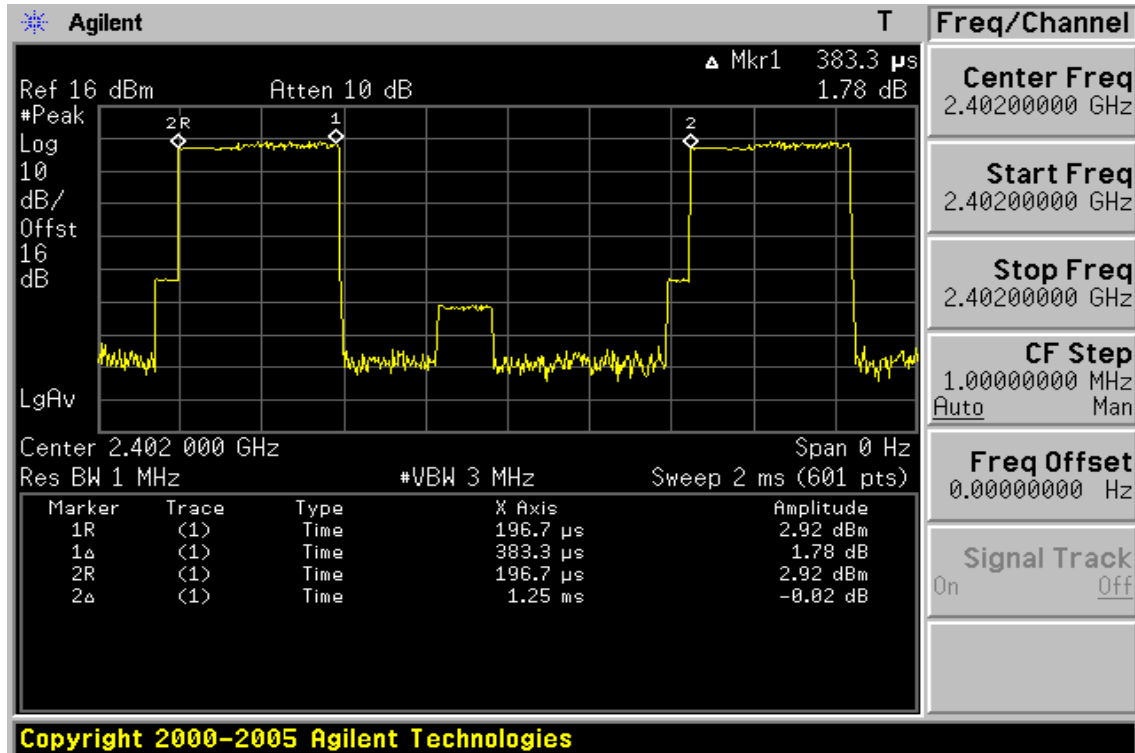
Note: Refer to next page for plots.

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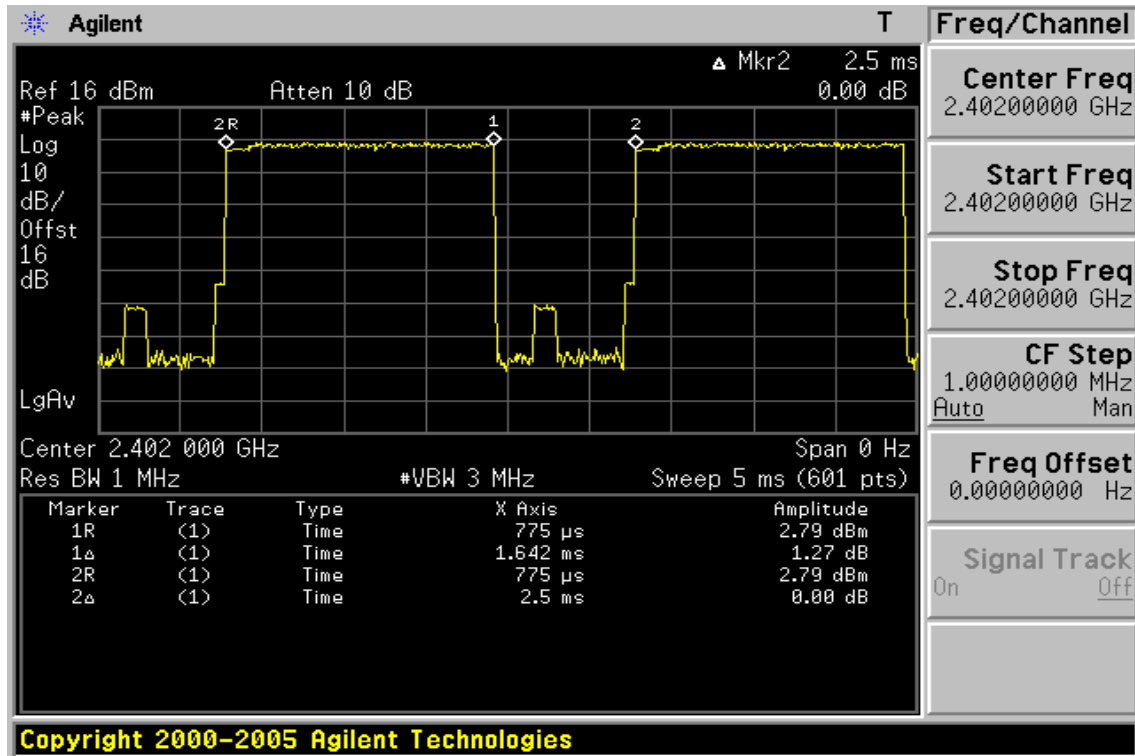
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CH-Low DH1



DH3



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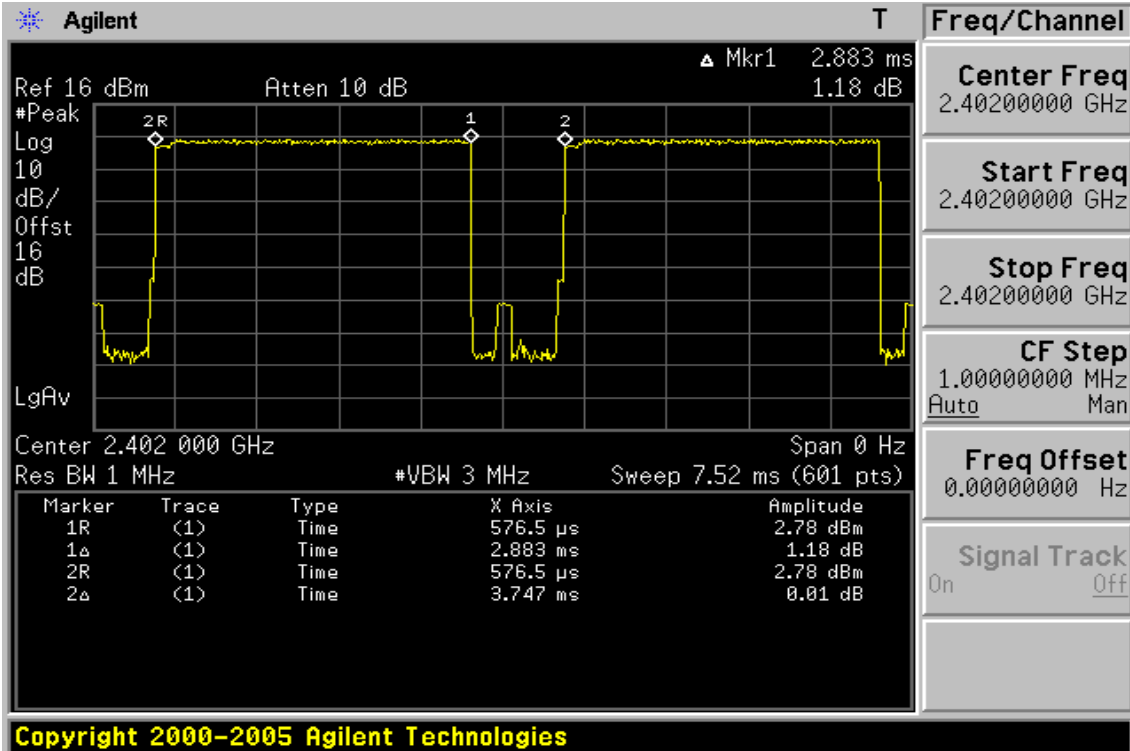
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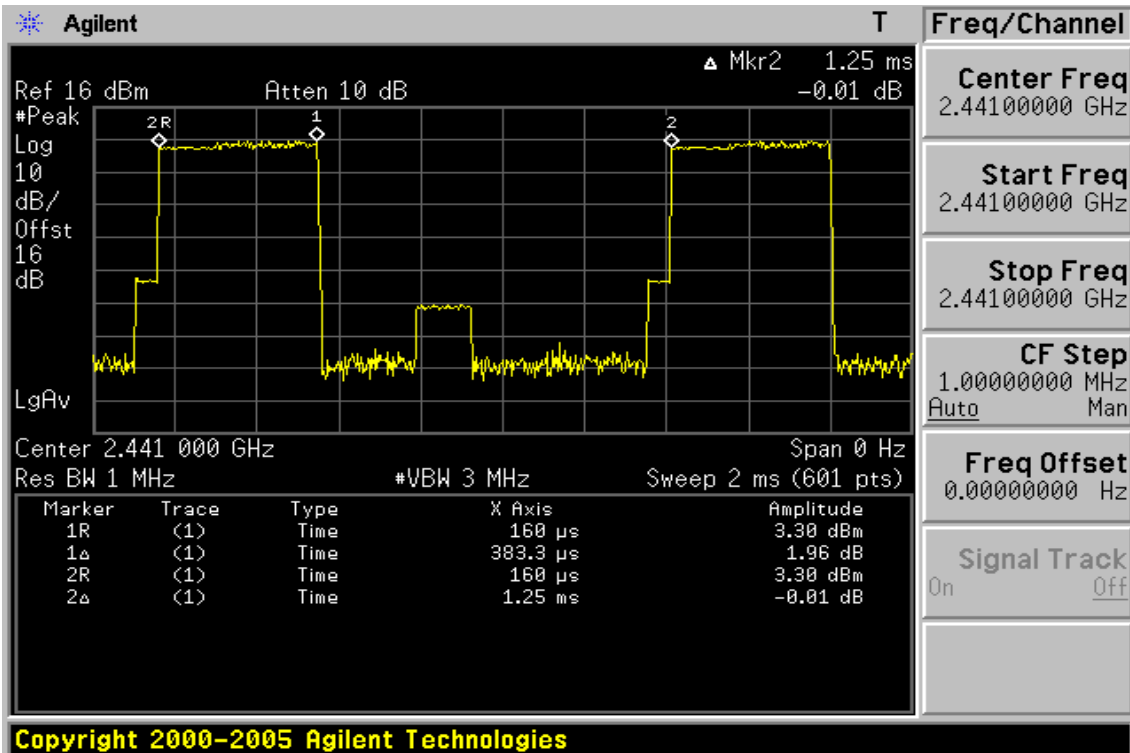
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DH5



CH-Mid
DH1

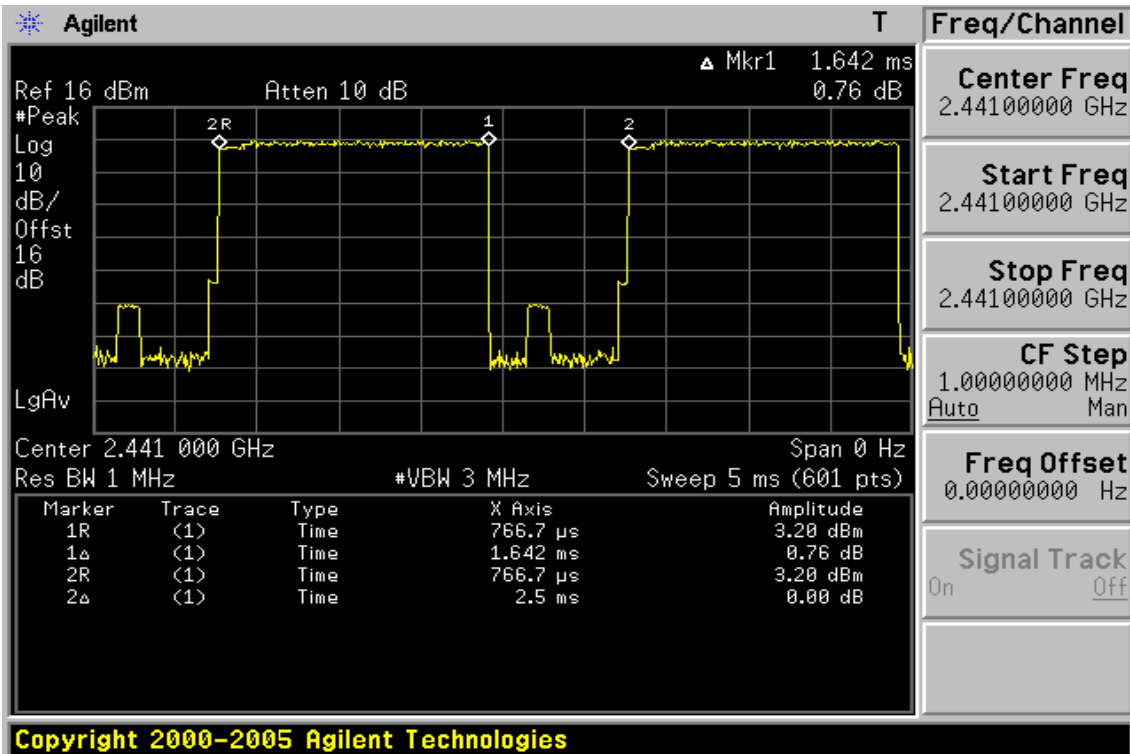


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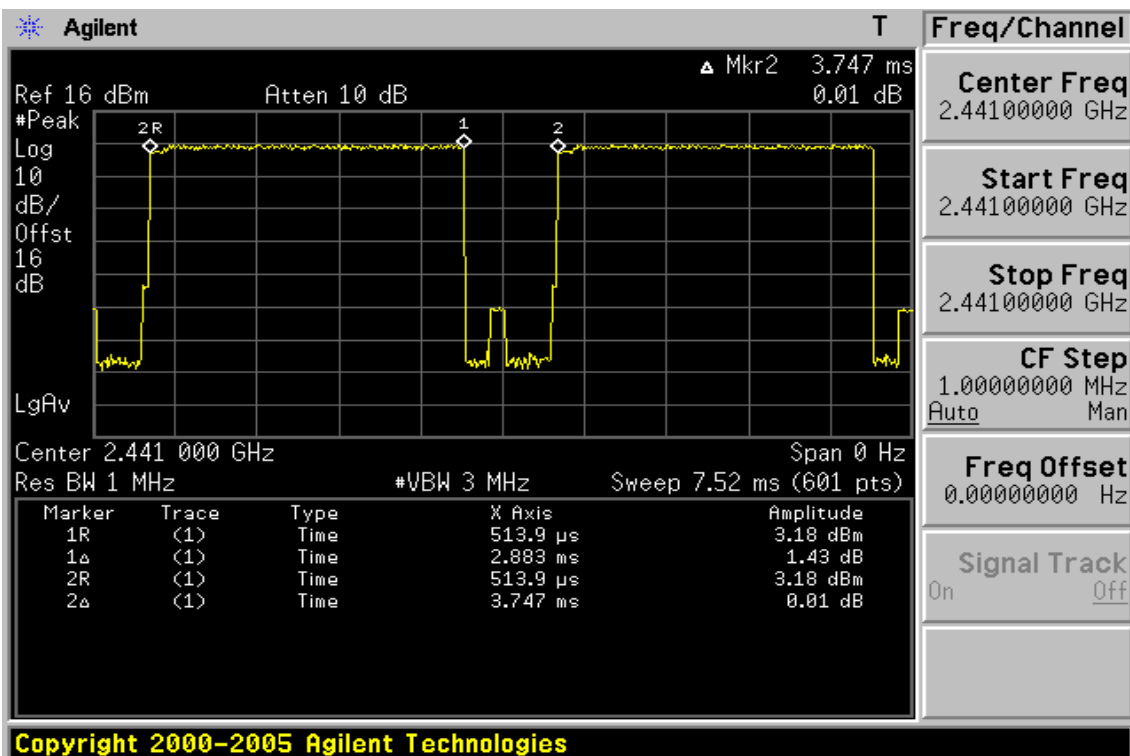
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DH3



DH5



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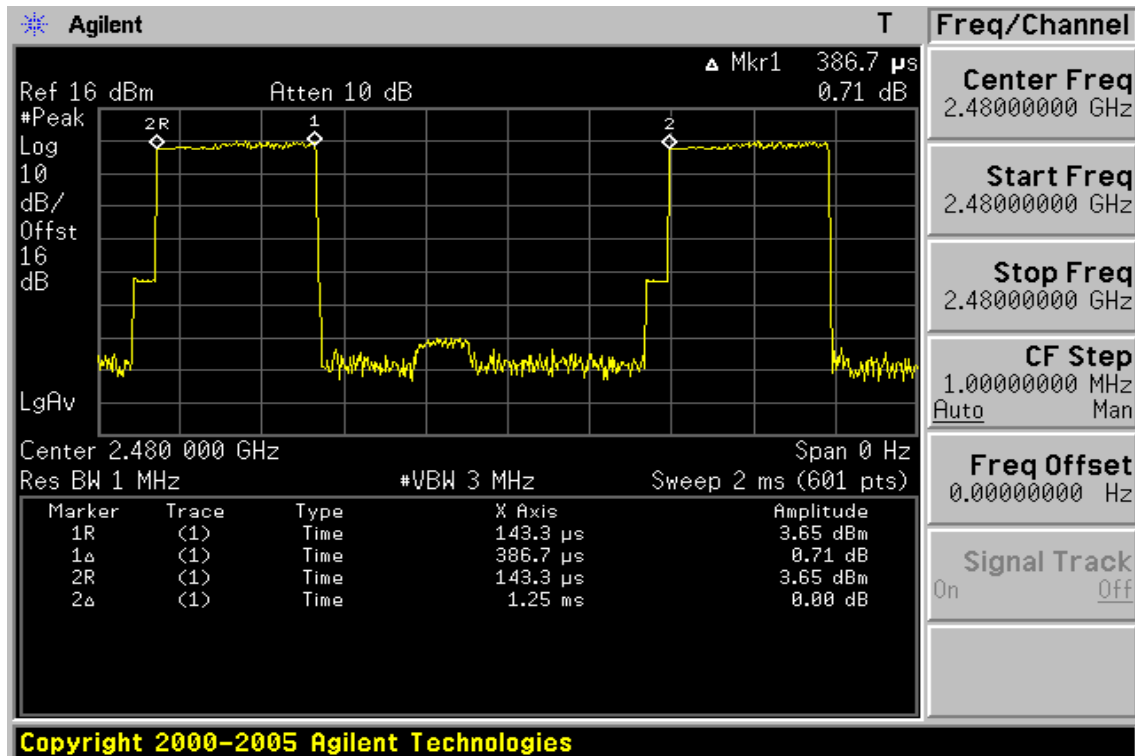
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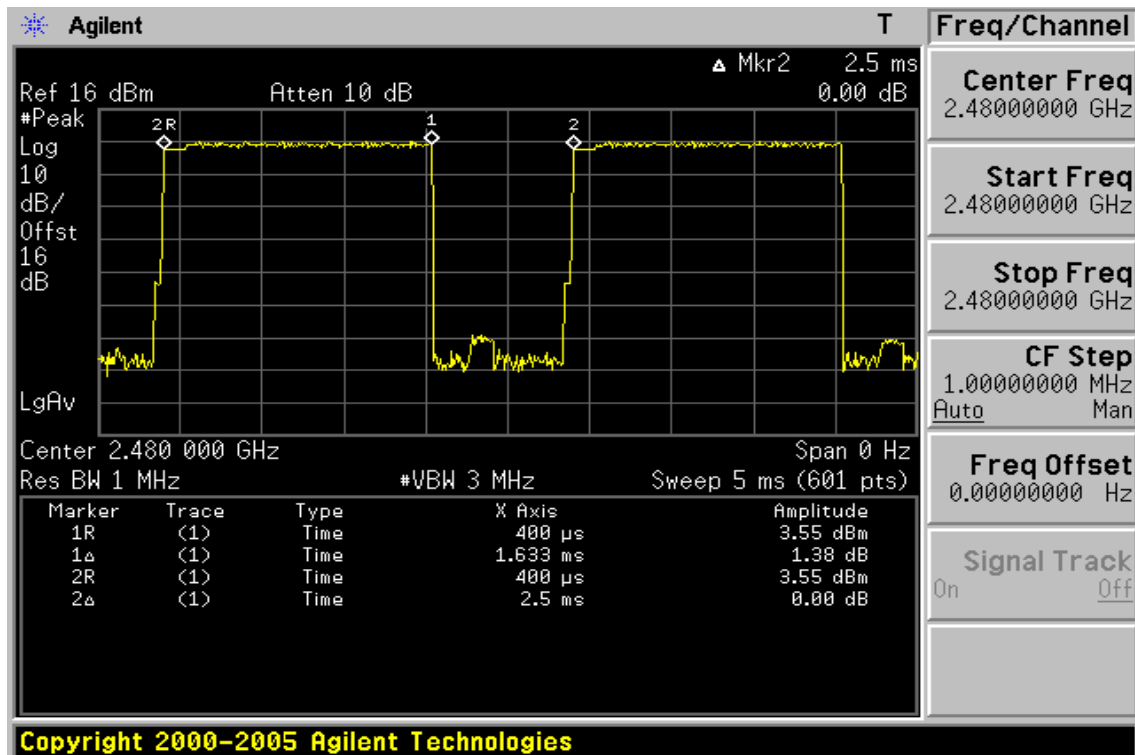
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CH-High
DH1



DH3

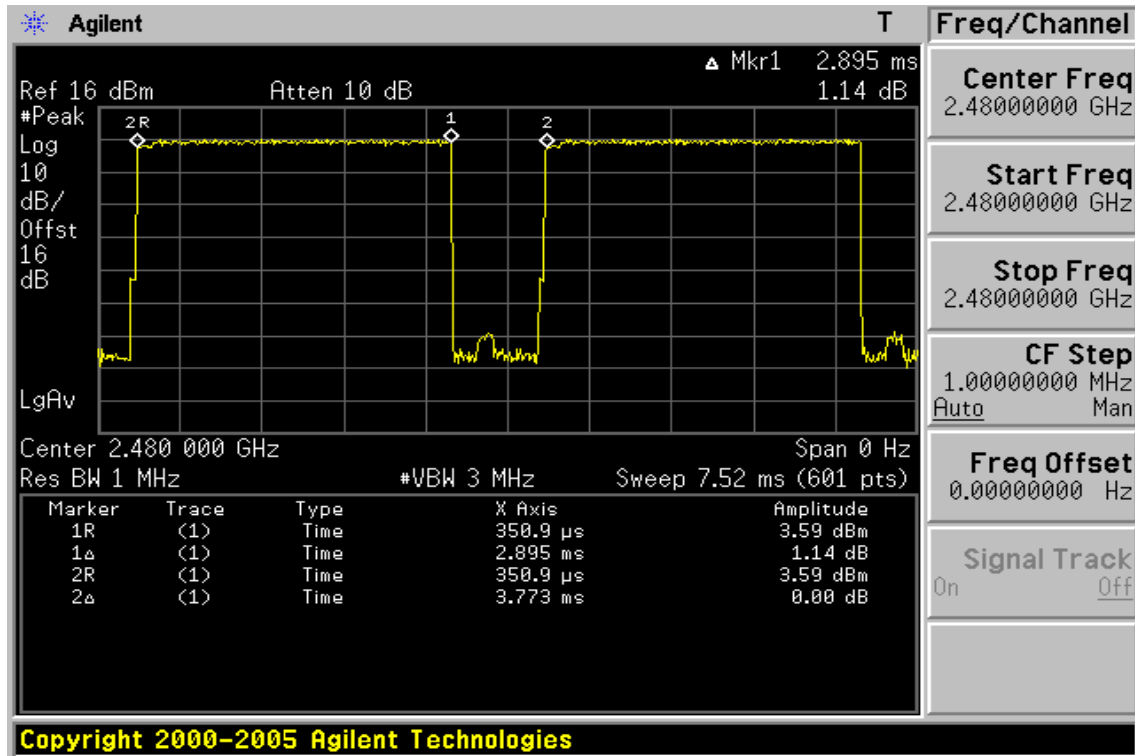


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DH5



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12. Peak Power Spectral Density

12.1. 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 8, §A8.2(b) 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.

12.2. Measurement Equipment Used:

Refer to section 6.2 for details.

12.3. Test Set-up:

Refer to section 6.3 for details.

12.4. 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 = 3KHz, VBW = 10KHz, Span = 1.5MHz, Sweep=100s
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

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12.5. Measurement Result:

BDR Mode

CH	RF Power Density Reading (dBm)	RF Power Density Level (dBm)	Maximum Limit (dBm)	Result
Low	-8.18	-8.18	8	PASS
Mid	-7.82	-7.82	8	PASS
High	-7.44	-7.44	8	PASS

EDR Mode

CH	RF Power Density Reading (dBm)	RF Power Density Level (dBm)	Maximum Limit (dBm)	Result
Low	-11.46	-11.46	8	PASS
Mid	-11.08	-11.08	8	PASS
High	-10.72	-10.72	8	PASS

Note: Offset: 16dB

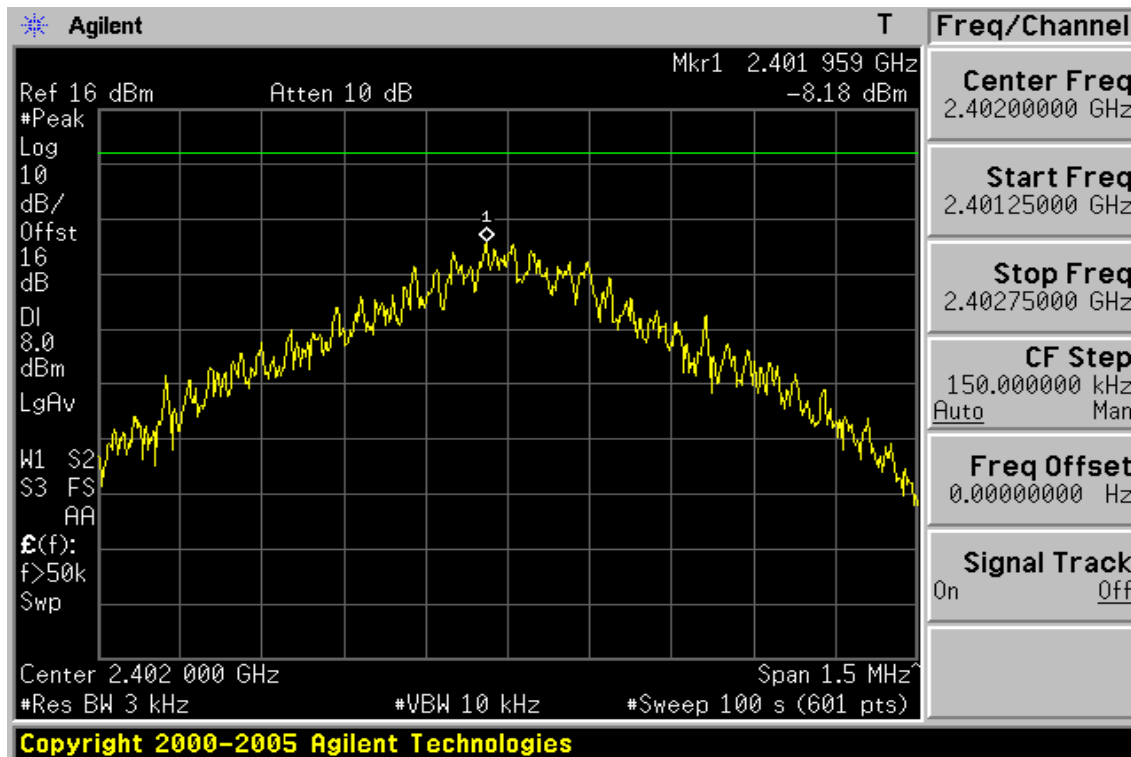
Refer to next page for plots.

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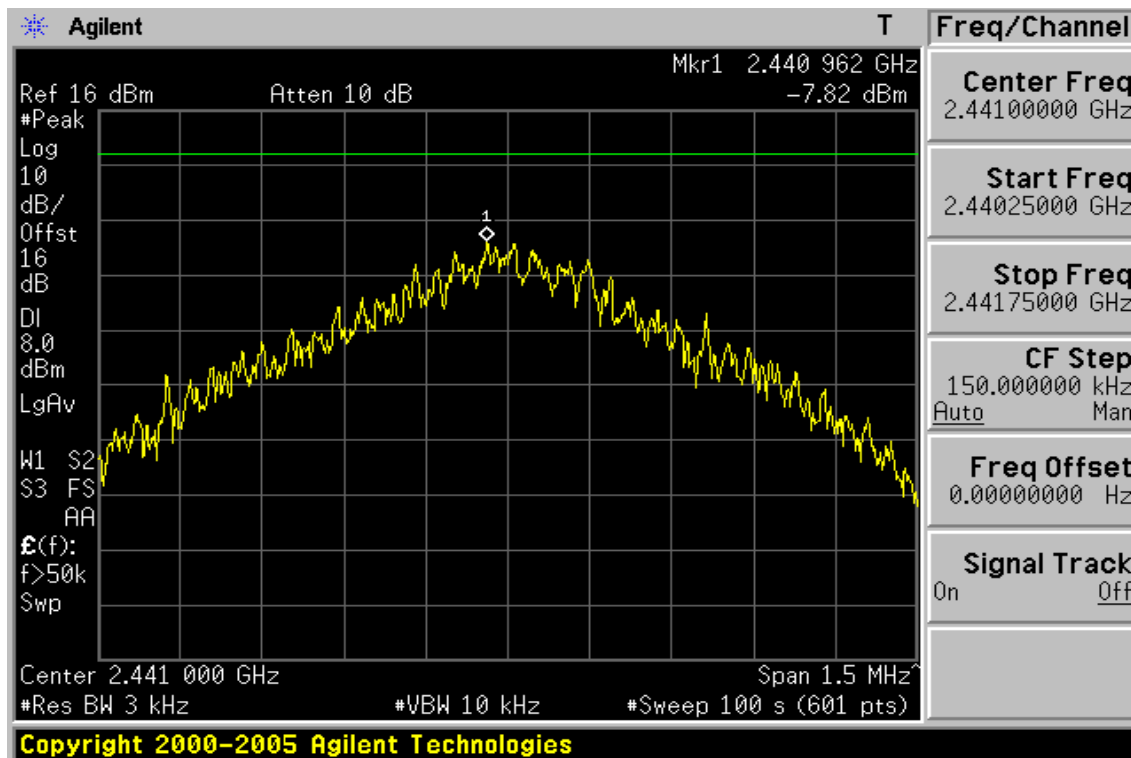
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Power Spectral Density Test Plot (CH-Low) (BDR Mode)



Power Spectral Density Test Plot (CH-Mid) (BDR Mode)



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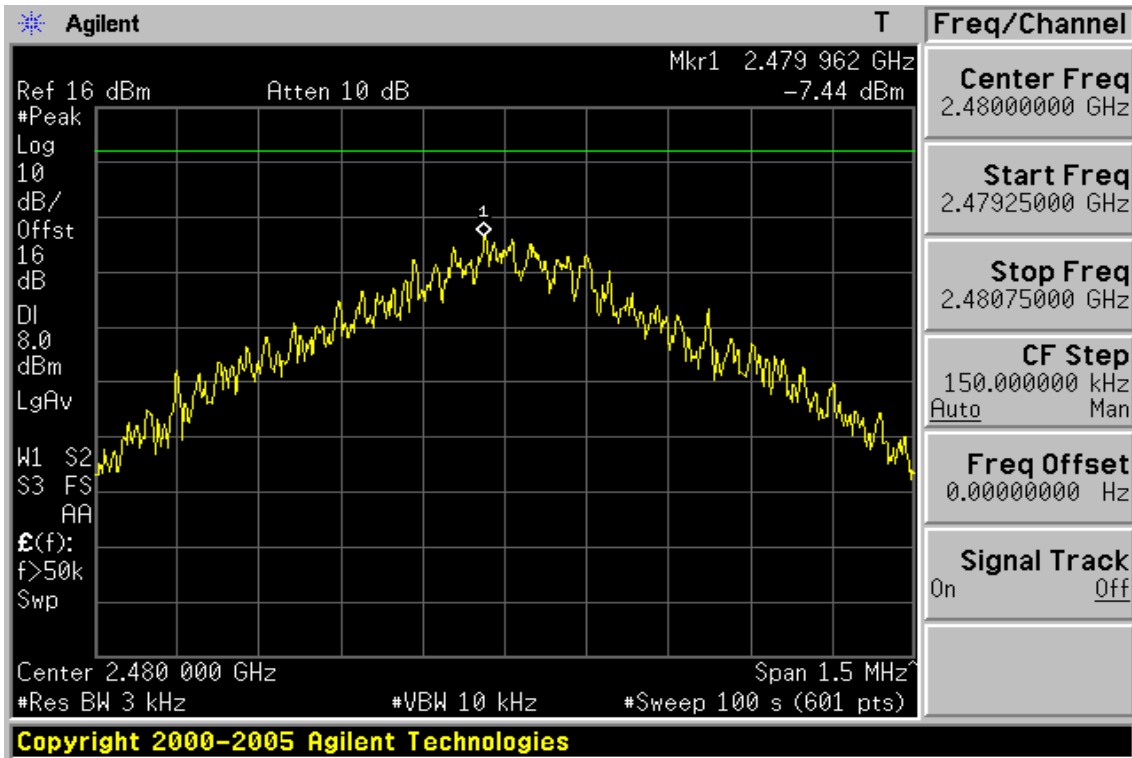
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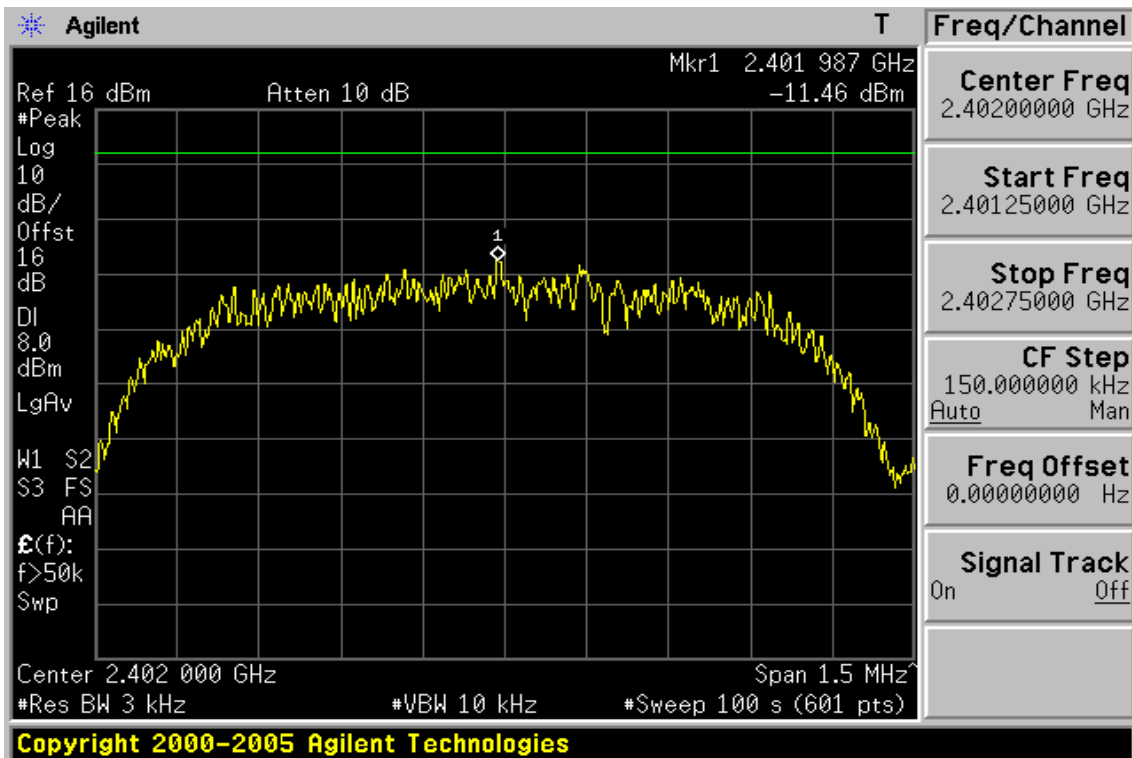
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Power Spectral Density Test Plot (CH-High) (BDR Mode)



Power Spectral Density Test Plot (CH-Low) (EDR Mode)

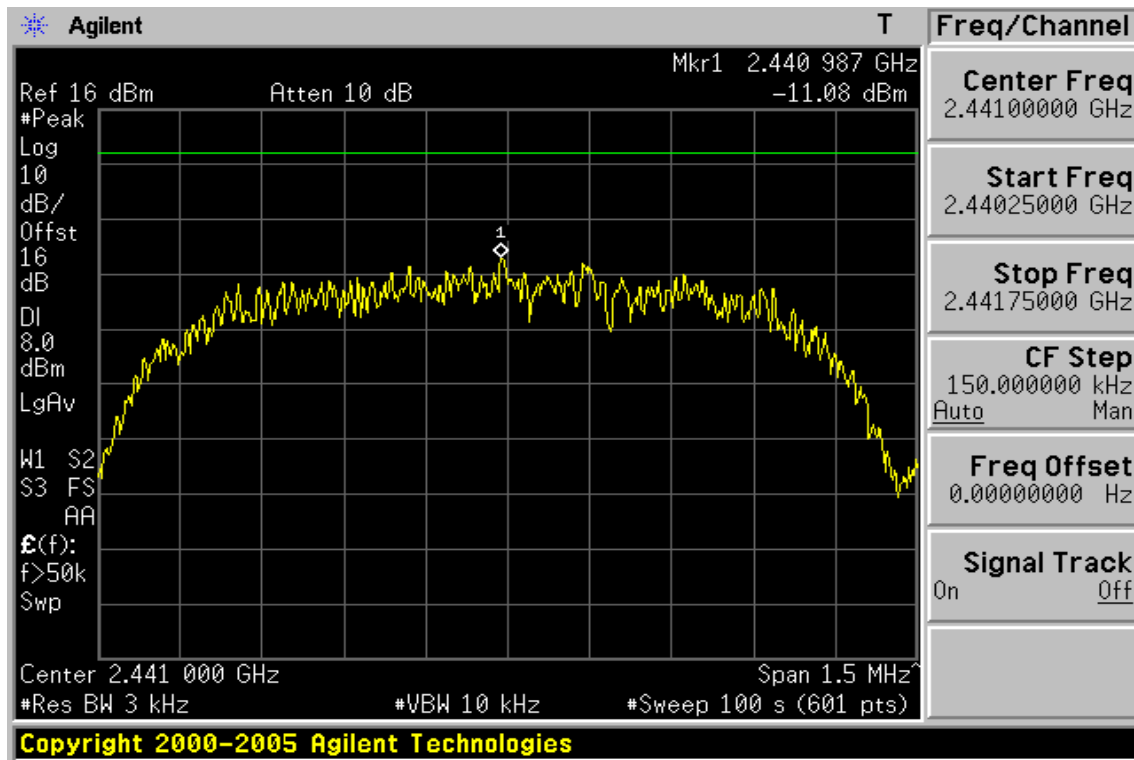


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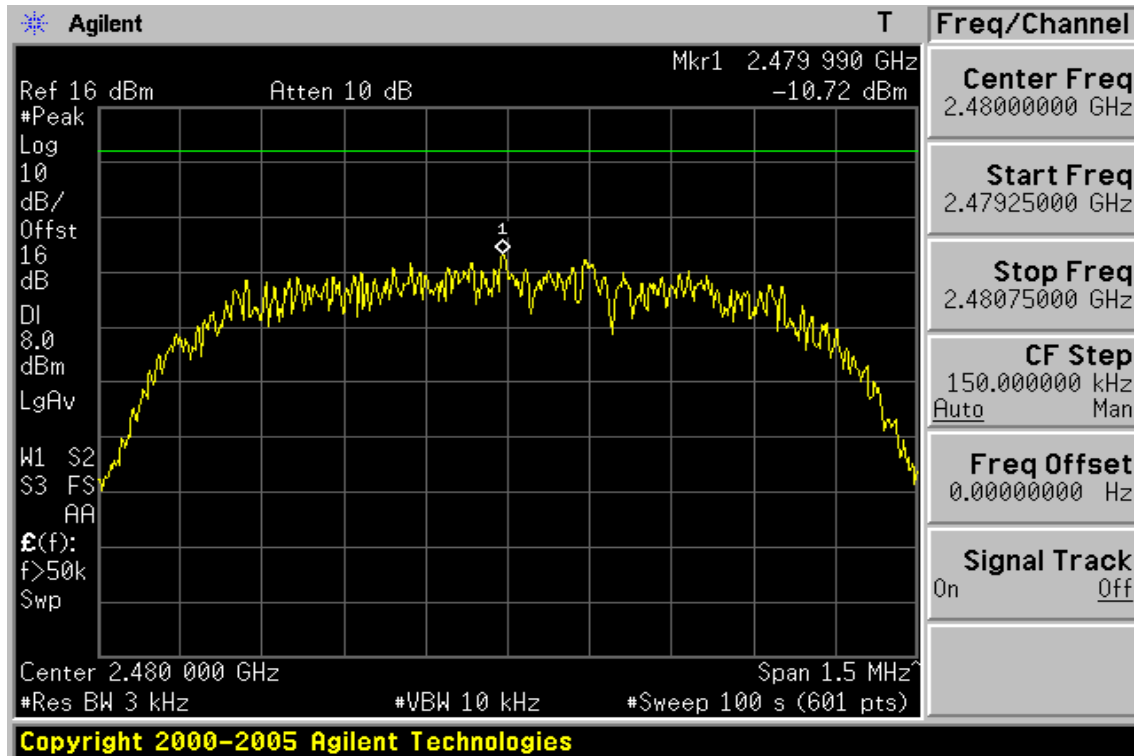
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Power Spectral Density Test Plot (CH-Mid) (EDR Mode)



Power Spectral Density Test Plot (CH-High) (EDR Mode)



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13. 20dB Bandwidth & 99% Bandwidth

13.1. Standard Applicable:

According to §15.247(a)(1), and RSS210 A8.1(b) for frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

13.2. Measurement Equipment Used:

Refer to section 6.2 for details.

13.3. Test Set-up:

Refer to section 6.3 for details.

13.4. 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 $RBW \geq 1\%$ of Bandwidth. $VBW \geq RBW$, 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.

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13.5. Measurement Result:

20dB Bandwidth : BDR Mode

CH	Bandwidth (kHz)
Lower	920.477
Mid	919.782
Higher	922.922

20dB Bandwidth : EDR Mode

CH	Bandwidth (MHz)	2/3 Bandwidth (MHz)
Lower	1.288	0.859
Mid	1.332	0.888
Higher	1.287	0.858

99% Bandwidth: BDR Mode

CH	Bandwidth (kHz)
Lower	862.765
Mid	879.223
Higher	867.240

99% Bandwidth: EDR Mode

CH	Bandwidth (MHz)
Lower	1.1828
Mid	1.1830
Higher	1.1871

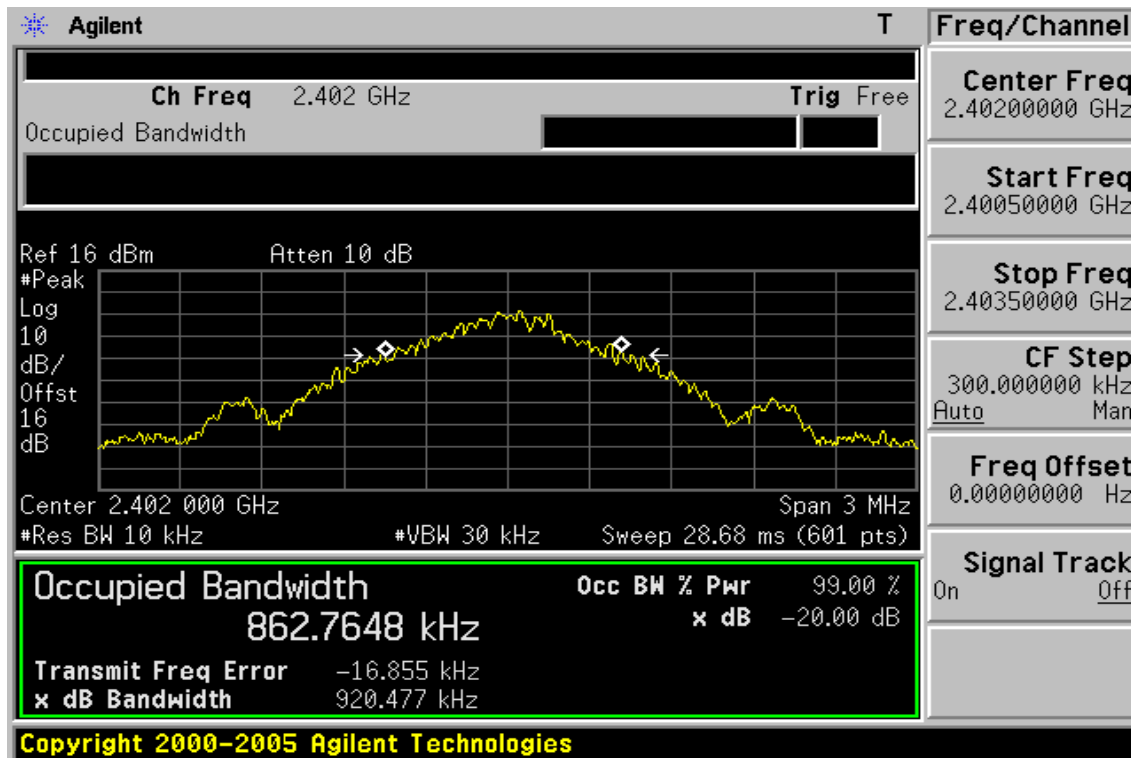
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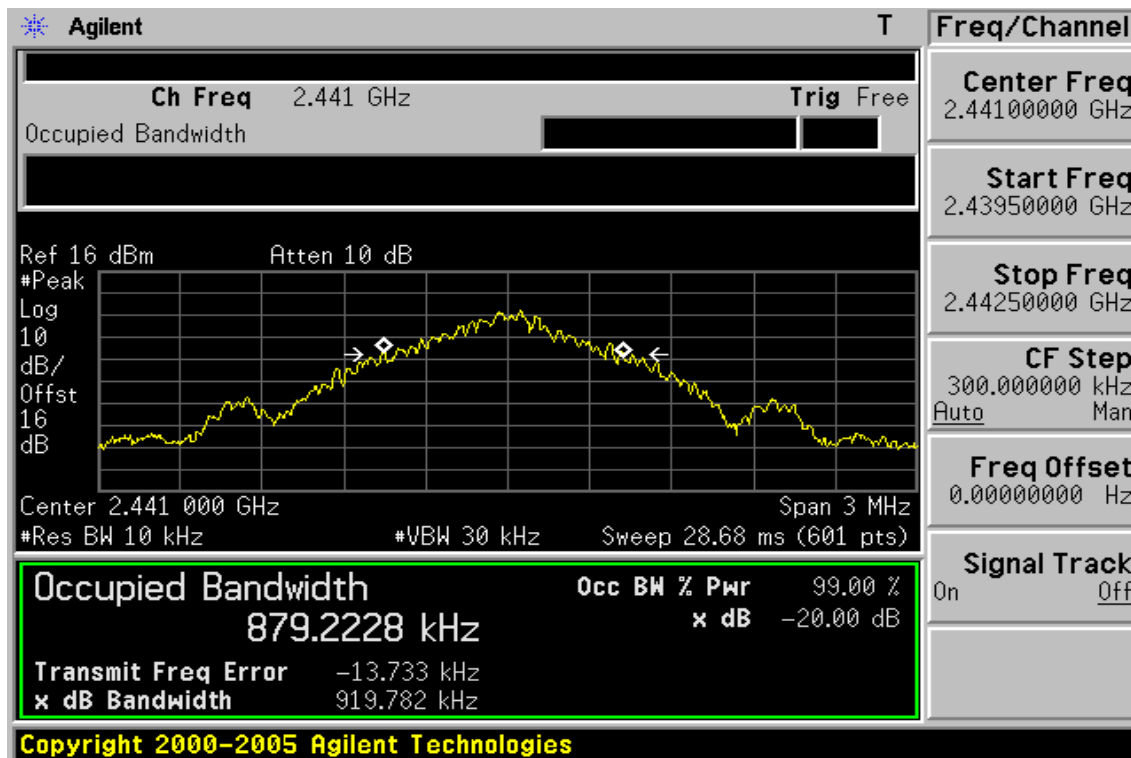
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BDR Mode

20dB Bandwidth & 99% Bandwidth Test Data CH-Low



20dB Bandwidth & 99% Bandwidth Test Data CH-Mid



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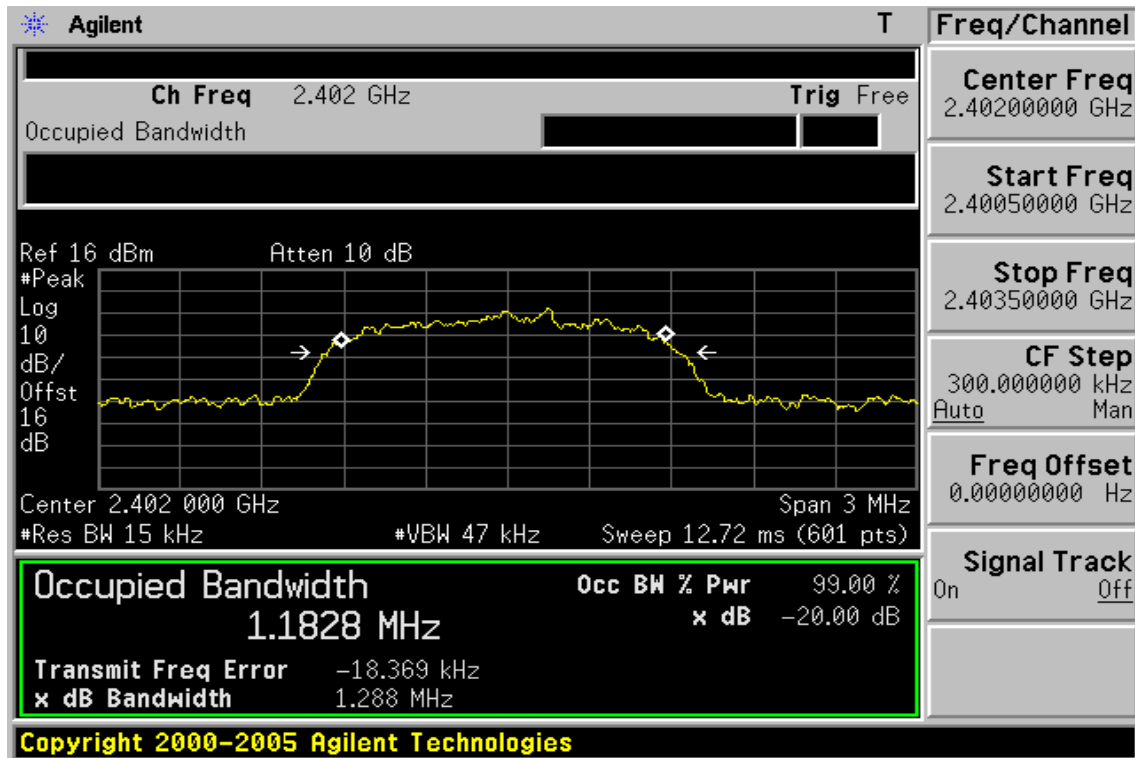
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20dB Bandwidth & 99% Bandwidth Test Data CH-High



EDR Mode

20dB Bandwidth & 99% Bandwidth Test Data CH-Low

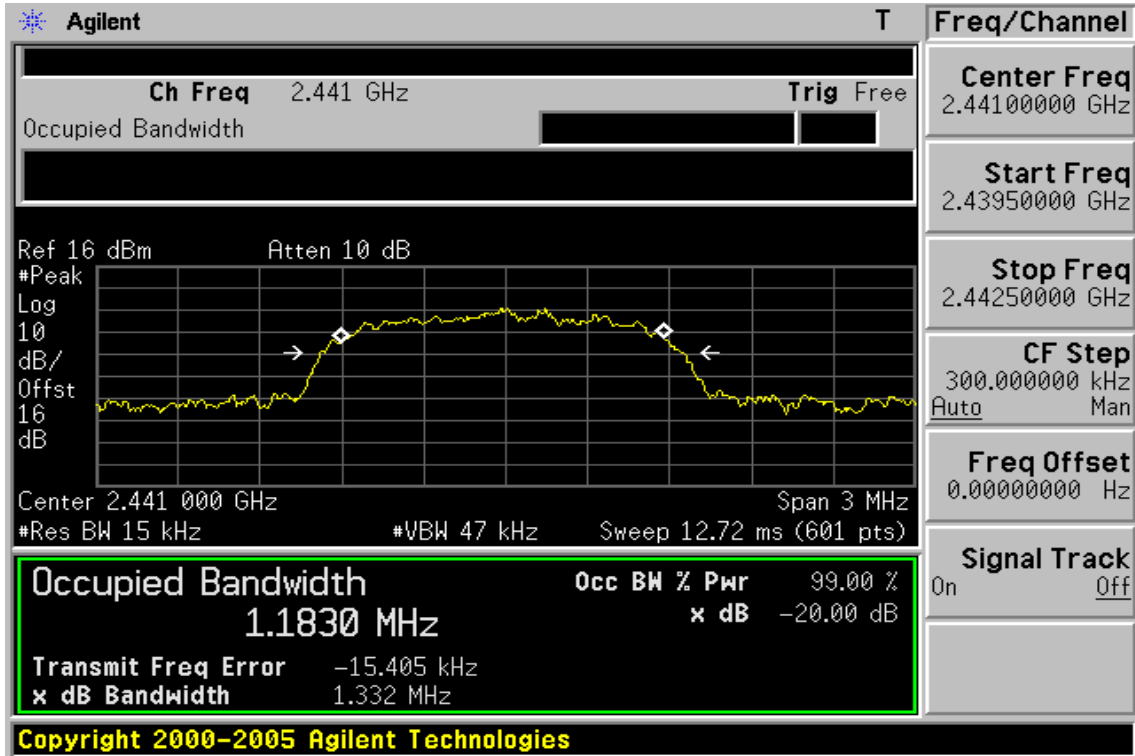


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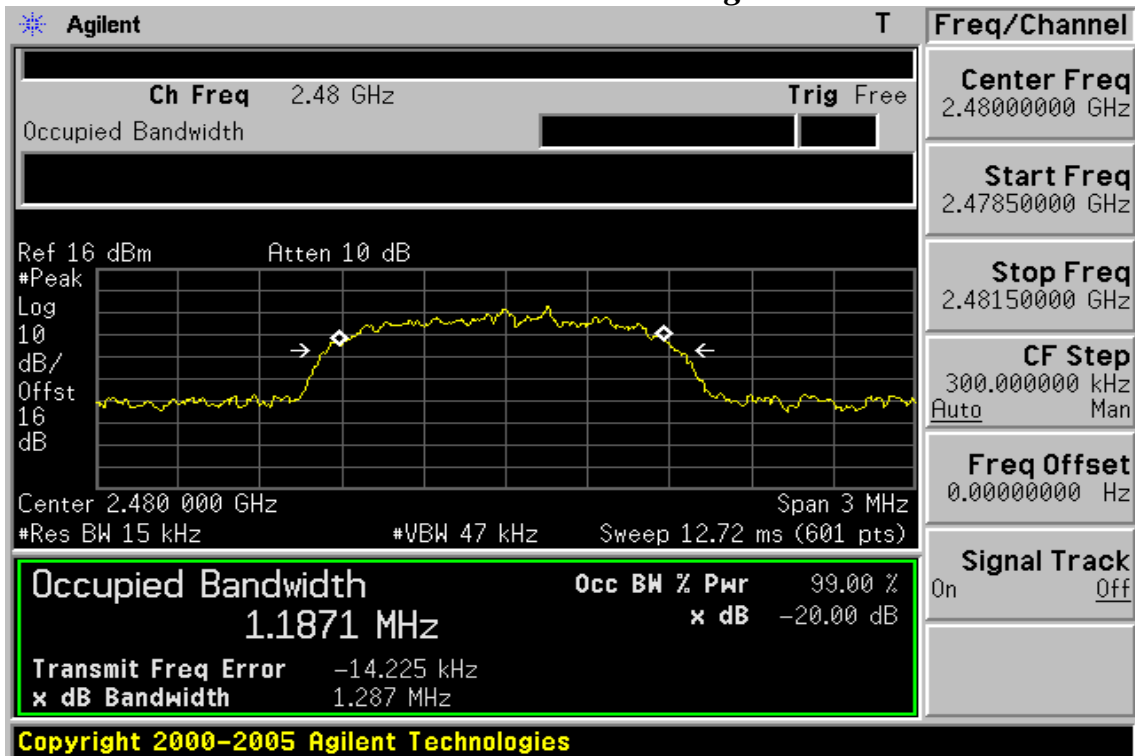
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20dB Bandwidth & 99% Bandwidth Test Data CH-Mid



20dB Bandwidth & 99% Bandwidth Test Data CH-High



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14. ANTENNA REQUIREMENT

14.1. 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 7.1.2, 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.

14.2. Antenna Connected Construction:

The directional gains of antenna used for transmitting is -1.4dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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15. RF EXPOSURE

15.1. Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a portable device.

15.2. Measurement Result:

This is a portable device and the Max peak output power is 5.99 dBm (0.00397W) lower than low threshold 60/fGHz mW (24.48mW), $d < 2.5\text{cm}$ in general population category ;

The SAR measurement is not necessary.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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