

Report No.: EH/2010/70003-02

Issue Date: Jul. 20, 2010

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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: GSM 850/1900 Terminal Device

Brand Name: Bess

Model Name: VZ219

Model difference: N/A

FCC ID: YMB-VZ219

Report No.: EH/2010/70003-02

Issue Date: Jul. 20, 2010

FCC Rule Part: §15.247, Cat: DSS

Prepared for: Bess Mobile Holding S.A.

LA CONCEPCION 177, 5TO PISO, PROVIDENCIA REGION METROPOLITANA, SANTIAGO,

CHILE Postal Code 7500010

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei

County, Taiwan.





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VERIFICATION OF COMPLIANCE

Applicant: Bess Mobile Holding S.A.

LA CONCEPCION 177, 5TO PISO, PROVIDENCIA REGION ME-

TROPOLITANA, SANTIAGO, CHILE Postal Code 7500010

Product Name: GSM 850/1900 Terminal Device

Brand Name: Bess
Model Name: VZ219
Model difference: N/A

FCC ID: YMB-VZ219

File Number: EH/2010/70003-02

Date of test: Jul. 05, 2010~ Jul, 19, 2010

Date of EUT Received: Jul. 05, 2010

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:	Bondi Jin	Date:	Jul. 20, 2010
Prepared By:	Bondi Liu / Engineer	Date:	Jul. 20, 2010
Approved By:	Alex Chen / Project Engineer Alex Chen / Project Engineer Alex Chen / Project Engineer Asst. Superviser	Date:	Jul. 20, 2010

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Version

Version No.	Date	Description
00	Jul. 20, 2010	Initial creation of document

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	GSM 850/1900 Terminal Device		
Brand Name:	Bess		
Model Name:	VZ219		
Model difference:	N/A		
Simple Hands-Free:	Model No.: 91ZW003601, Supplier: Meeyon		
LCM:	Model No.: FL240QVC50-A0, Supplier: Foxlink		
	3.7Vdc Li-Ion ba	attery or 5Vdc from AC/DC adapter	
Power Supply	Battery: Model: BL-54, Supplier: B&K		
	Adapter: Model No.: LSD-D05140, Supplier: LSD		

GSM:

Cellular Phone Standards	GSM / GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33 dBm
Frequency Range:	GSM / GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30 dBm
IMEI	353907039998967		
Hardware Version	TV31US-0G		
Software Version	TV31BM.B0.00.M01.00.03		

Bluetooth:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	$V2.1 + EDR (GFSK + \pi/4DQPSK + 8DPSK)$
Channel number:	79 channels
Transmit Power:	8.81 dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum
Antenna Designation:	Print Antenna / antenna gain: -2.17dBi

The EUT is compliance with Bluetooth 2.1 with EDR

This 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: <u>YMB-VZ219</u> filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

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.

Tested in accordance with FCC Public Notice DA 00-705

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. Electronics & Communication Laboratory 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. Electronics & Communication Laboratory 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 operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes 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 and Subclause 8.3.1.2 of ANSI C63.4: 2003 and DA 00-705.

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2.4. Configuration of Tested System

Fig. 2-1 AC Power line and Radiated Emission Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model	Series No.	Data Cable	Power Cord
1	Bluetooth Test Set	Anritsu	MT8852B	N/A	N/A	Un-shielding

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	Conducted Emission	N/A
§15.247(b)(1)	Peak Output Power	Compliant
§15.247(a)	20dB Bandwidth	No Limit
§15.247I	100 KHz Bandwidth Of Fre-	Compliant
	quency Band Edges	
§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,	Antenna Requirement	Compliant
§15.247(b)(4)(i)		

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 $(2402 MHz) \cdot mid (2441 MHz)$ and high (2480 MHz) with highest data rate are chosen for full testing with BDR and EDR and to contrast with X, Y, Z axis, X axis which has Worst Case.

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5. CONDUCTED EMISSION TEST

5.1. Standard Applicable

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

Frequency range	Limits dB(uV)		
MHz			
	,	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 120Vac/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	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2009	09/15/2010
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2010	02/01/2011
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2010	02/01/2011
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2009	10/29/2010

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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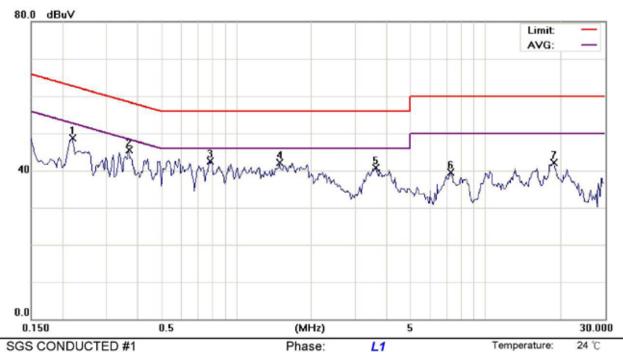
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Bluetooth Mode	Test Date:	Jul. 12, 2010
		Test By:	Bondi



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: GSM 850/1900 Terminal Device

M/N: VZ219 Note: BT Continuous Mode

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2200	48.55	0.12	48.67	62.82	-14.15	peak	
2	*	0.3700	45.37	0.12	45.49	58.50	-13.01	peak	
3		0.7800	42.45	0.12	42.57	56.00	-13.43	peak	
4		1.4900	41.90	0.14	42.04	56.00	-13.96	peak	
5		3.6400	40.48	0.19	40.67	56.00	-15.33	peak	
6		7.2800	39.18	0.34	39.52	60.00	-20.48	peak	
7		18.8800	41.52	0.51	42.03	60.00	-17.97	peak	

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Humidity:

Air Pressure:

hpa

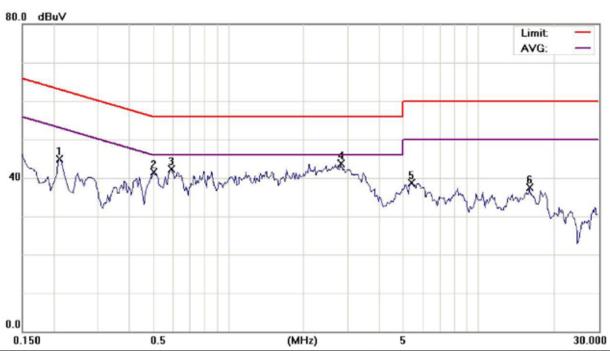


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24 °C

Temperature:

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Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

M/N:

Note: BT Continuous Mode

Power: AC 120V/60Hz Humidity: 58 % Air Pressure: EUT: GSM 850/1900 Terminal Device Distance: hpa

Phase:

N

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2100	44.87	0.13	45.00	63.21	-18.21	peak	
2		0.5000	41.35	0.12	41.47	56.00	-14.53	peak	
3		0.5900	42.24	0.12	42.36	56.00	-13.64	peak	
4	*	2.8100	43.50	0.18	43.68	56.00	-12.32	peak	
5		5.3800	38.44	0.24	38.68	60.00	-21.32	peak	
6		16.0200	36.94	0.49	37.43	60.00	-22.57	peak	

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6. PEAK OUTPUT POWER MEASUREMENT

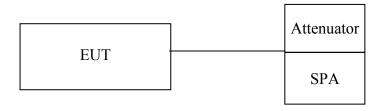
6.1. Standard Applicable

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

6.2. Measurement Equipment Used

	Conducted Emission Test Site											
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.							
ТҮРЕ		NUMBER	NUMBER	CAL.								
Power Sensor	Anritsu	MA2411B	917032	01/21/2010	01/20/2012							
Power Meter	Anritsu	ML2495A	1005007	02/17/2010	02/16/2012							
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012							
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2010	01/24/2011							
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011							
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2010	01/04/2011							
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011							
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011							
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011							
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011							

6.3. Test Set-up:



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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, >20dB bandwidth, >=RBW)
- 3. Record the max. reading.
- 4. Repeat above procedures until all frequency measured were complete.

6.5. Measurement Result

BDR mode:

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	8.81	0.00	8.81	0.00760	1
2441.00	8.10	0.00	8.10	0.00646	1
2480.00	6.87	0.00	6.87	0.00486	1

*Note: offset 0.2dB

EDR mode:

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	6.87	0.00	6.87	0.00486	1
2441.00	6.29	0.00	6.29	0.00426	1
2480.00	5.00	0.00	5.00	0.00316	1

*Note: offset 7dB

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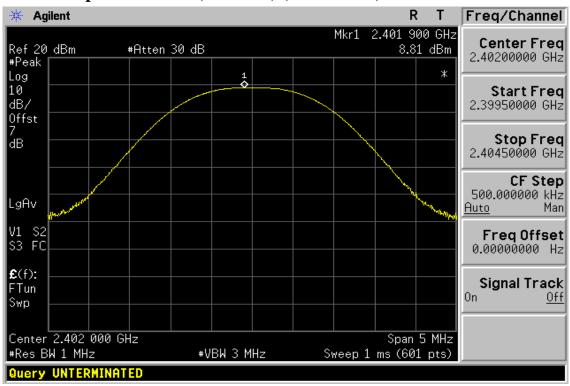


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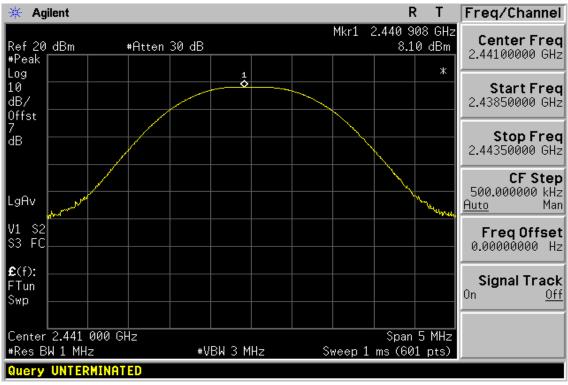
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Peak Power Output Data Plot (CH Low) (BDR mode)



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



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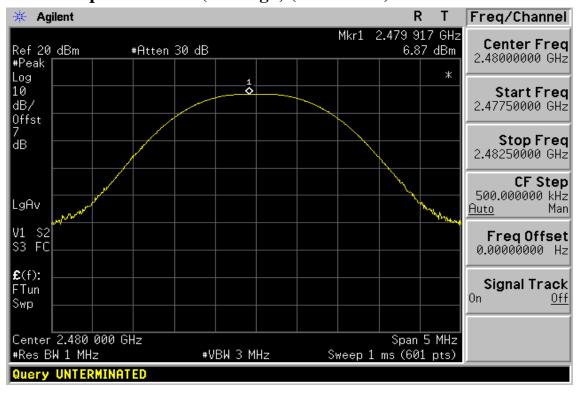


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Peak Power Output Data Plot (CH High) (BDR mode)



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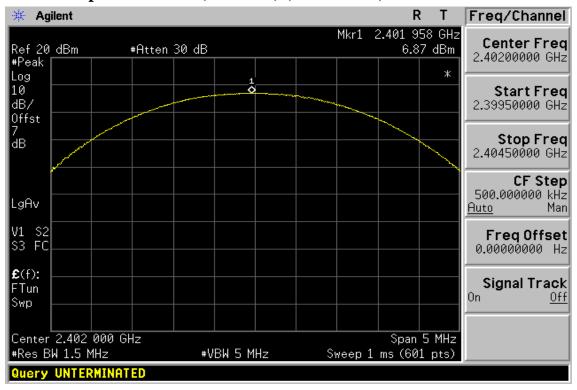


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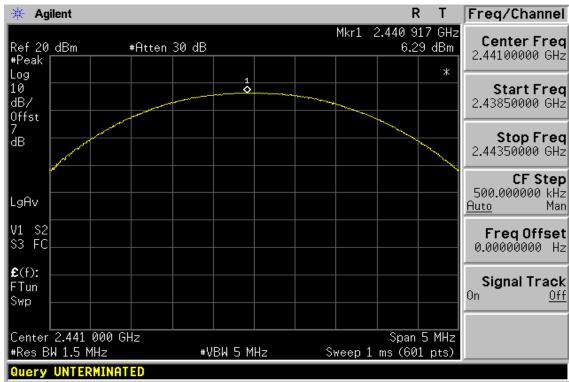
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Peak Power Output Data Plot (CH Low) (EDR mode)



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



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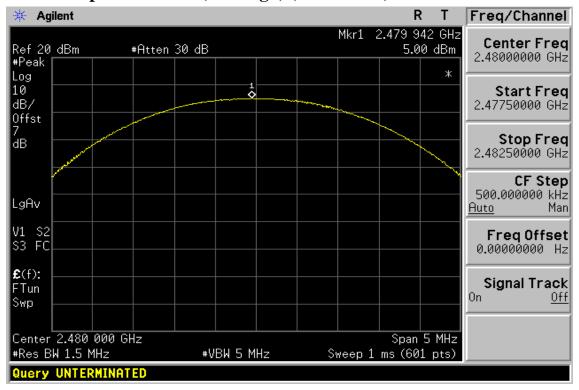


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Peak Power Output Data Plot (CH High) (EDR mode)



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7. 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 Equipment Used

Refer to section 6.2 for details.

7.3. Test Set-up

Refer to section 6.3 for details.

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 the spectrum analyzer as RBW=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.

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7.5. Measurement Result:

20dB Bandwidth: BDR mode

rac	
СН	Bandwidth
	(kHz)
Lower	926.963
Mid	926.931
Higher	980.742

20dB Bandwidth: EDR mode

СН	Bandwidth	2/3 Bandwidth
	(MHz)	(MHz)
Lower	1.299	0.866
Mid	1.26	0.840
Higher	1.253	0.835

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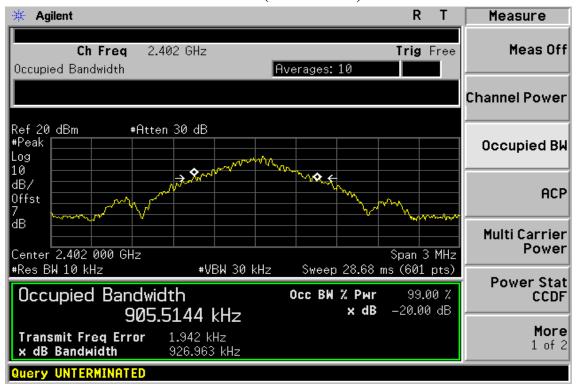


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20dB Band Width Test Data CH-Low (BDR mode)



20dB Band Width Test Data CH-Mid (BDR mode)



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20dB Band Width Test Data CH-High (BDR mode)



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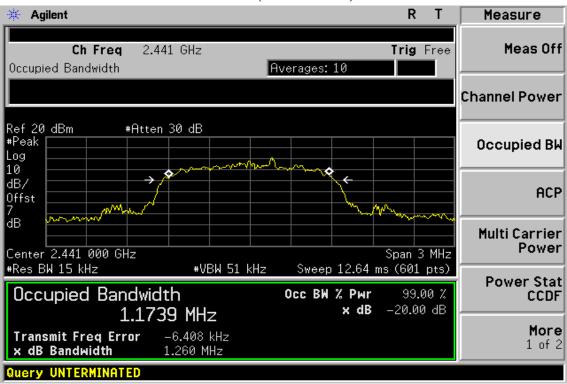
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20dB Band Width Test Data CH-Low (EDR mode)



20dB Band Width Test Data CH-Mid (EDR mode)



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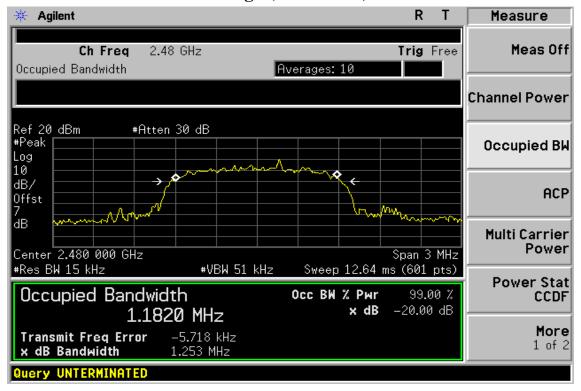


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20dB Band Width Test Data CH-High (EDR mode)



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8. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

8.1. Standard Applicable

According to §15.247(c), in any 100 KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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 Equipment Used

8.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

8.2.2. Radiated emission:

	9	66 Chamber			
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2009	11/18/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	03/09/2009	03/08/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/28/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
Radio Communication Analyzer	R & S	CMU200	102189	10/31/2008	10/30/2010
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
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	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

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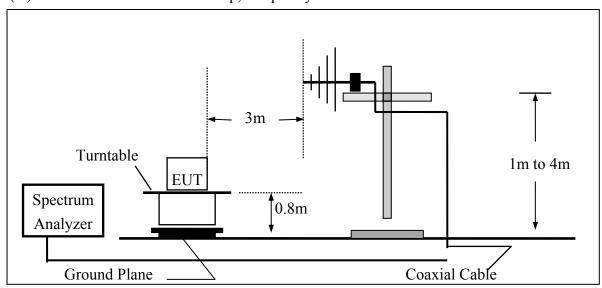
8.3. Test SET-UP:

8.3.1. Conducted Emission at antenna port:

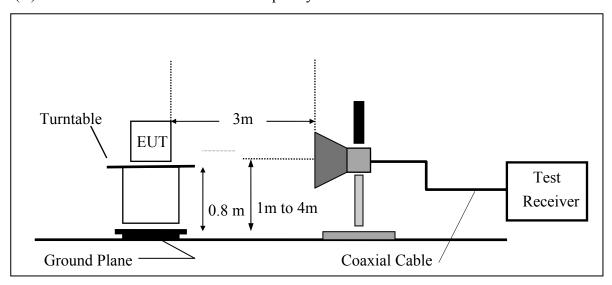
Refer to section 6.3 for details.

8.3.2. Radiated emission:

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



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



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8.4. 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. Radiated Emission refer to section 9.

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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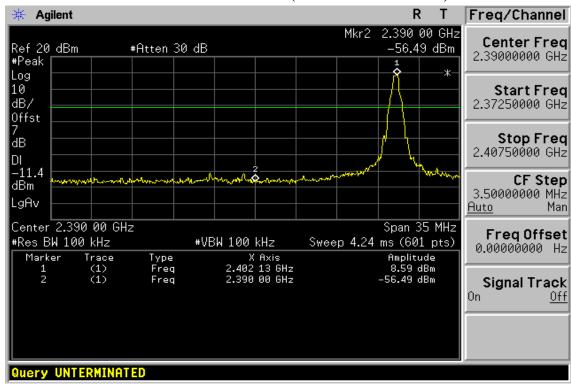


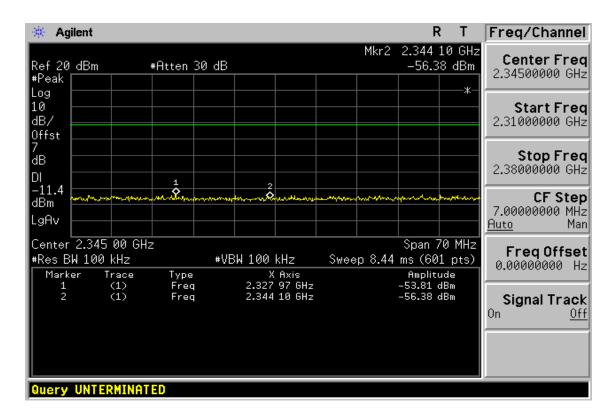
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Conducted Emission: Test Data CH-Low (Worst: BDR mode)





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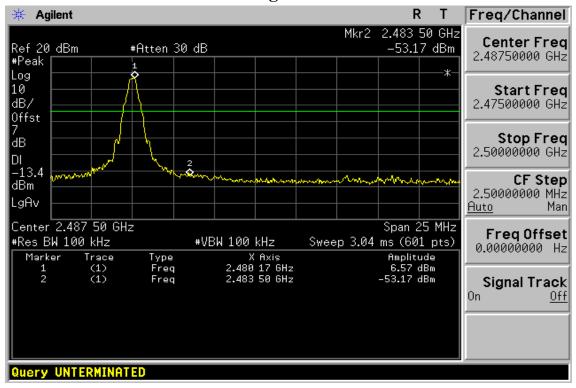


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Conducted Emission: Test Data CH-High



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Radiated Emission: (BDR mode)

Operation Mode TX CH Low Jul 07, 2010 Test Date

Fundamental Frequency 2402 MHz Test By Bondi Temperature 25 °C Pol Ver.

65 % Humidity

	Peak	$\mathbf{A}\mathbf{V}$		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	dBuV/m	(dB)	
2390.00	43.57		-1.39	42.18		74.00	54.00	-11.82	Peak
Operation	Mode	TX C	H Low			Test	Date .	Jul 07, 201	0
Fundamen	tal Freque	ncy 2402	MHz			Test	By 1	Bondi	
Temperatu	re	25				Pol]	Hor.	
Humidity		65 %							

	Peak	$\mathbf{A}\mathbf{V}$		Actu	ıal FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m	(dB)	_
2390.00	44.81		-1.39	43.42		74.00	54.00	-10.58	Peak

Remark:

- (1) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (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_o
- (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: (BDR mode)

Operation Mode TX CH High Jul 07, 2010 Test Date

Fundamental Frequency 2480 MHz Test By Bondi Temperature Pol Ver. 25

Humidity 65 %

	Peak	$\mathbf{A}\mathbf{V}$		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	dBuV/m	(dB)	
2483.50	44.77		-0.92	43.85		74.00	54.00	-10.15	Peak
Operation	Mode	TX C	H High			Test	Date	Jul 07, 201	0
Fundamen	tal Freque	ncy 2480	MHz			Test	By	Bondi	
Temperatu	re	25				Pol		Hor.	
Humidity		65 %							

	Peak	\mathbf{AV}		Actu	ıal FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m	(dB)	
2483.50	52.57	41.13	-0.92	51.65	40.21	74.00	54.00	-13.79	AV

Remark:

- (1) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (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_o
- (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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9. SPURIOUS RADIATED EMISSION TEST

9.1. Standard Applicable

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

9.2. Measurement Equipment Used:

9.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

9.2.2. Radiated emission:

Refer to section 8.2 for details.

9.3. Test **SET-UP**:

9.3.1. Conducted Emission at antenna port:

Refer to section 6.3 for details.

9.3.2. Radiated emission:

Refer to section 8.3 for details.

9.4. 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.

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9.5. 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				

9.6. Measurement Result:

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

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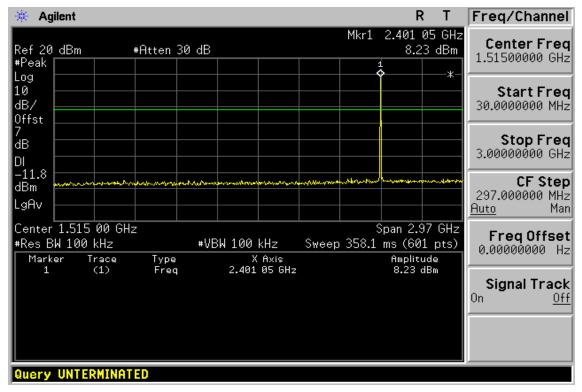


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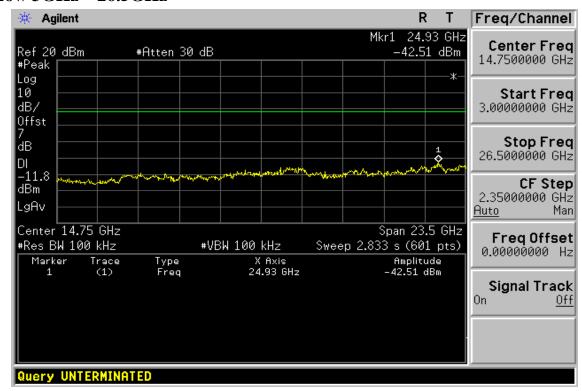
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Conducted Spurious Emission Measurement Result (Worst: BDR mode) Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz



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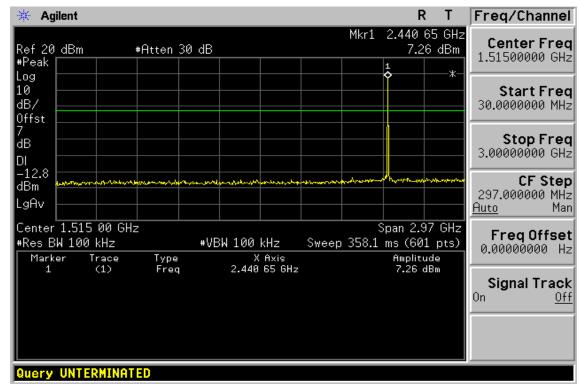


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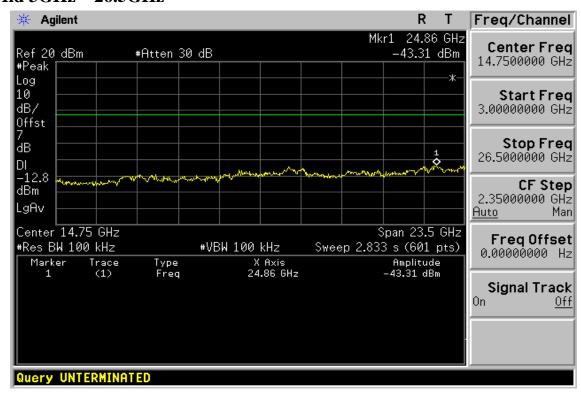
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Ch Mid 30MHz - 3GHz



Ch Mid 3GHz - 26.5GHz



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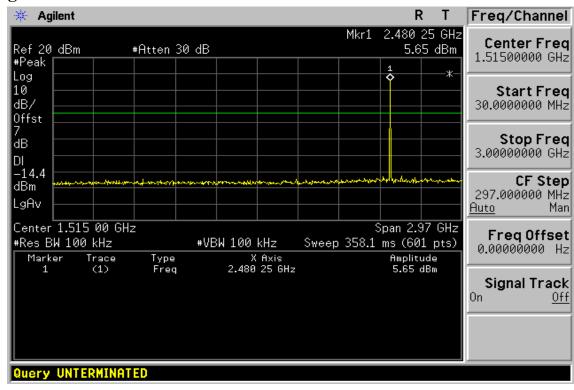


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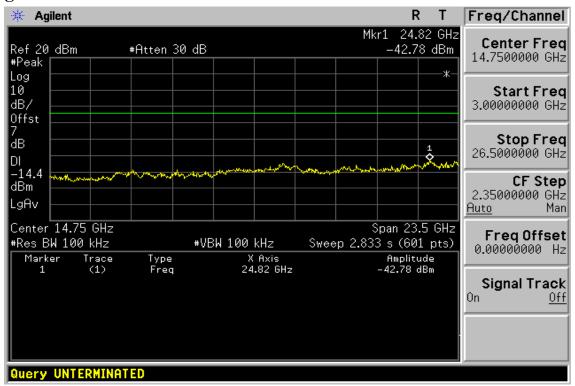
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Ch High 30MHz – 3GHz



Ch High 3GHz - 26.5GHz



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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH Low Jul. 07, 2010 Test Date Fundamental Frequency 2402MHz Bondi Test By Temperature Pol Ver./Hor. 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
60.07	V	Peak	48.69	-14.69	34.00	40.00	-6.00
100.81	V	Peak	49.34	-16.94	32.40	43.50	-11.10
152.22	V	Peak	31.12	-12.94	18.18	43.50	-25.32
445.16	V	Peak	29.99	-8.69	21.30	46.00	-24.70
616.85	V	Peak	29.80	-5.68	24.12	46.00	-21.88
789.51	V	Peak	28.47	-3.28	25.19	46.00	-20.81
54.25	Н	Peak	45.16	-14.51	30.65	40.00	-9.35
89.17	Н	Peak	44.02	-17.70	26.32	43.50	-17.18
147.37	Н	Peak	31.04	-12.98	18.06	43.50	-25.44
472.32	Н	Peak	29.60	-8.55	21.05	46.00	-24.95
619.76	Н	Peak	29.82	-5.63	24.19	46.00	-21.81
733.25	Н	Peak	29.09	-4.51	24.58	46.00	-21.42

Remark:

- 1 Measuring frequencies from 30 MHz to the 1GHz_o
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH Mid Jul. 07, 2010 Test Date Fundamental Frequency 2441MHz Bondi Test By Temperature Pol Ver./Hor. 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
60.07	V	Peak	49.07	-14.69	34.38	40.00	-5.62
100.81	V	Peak	49.44	-16.94	32.50	43.50	-11.00
152.22	V	Peak	31.87	-12.94	18.93	43.50	-24.57
482.02	V	Peak	28.99	-8.56	20.43	46.00	-25.57
614.91	V	Peak	29.14	-5.72	23.42	46.00	-22.58
779.81	V	Peak	29.03	-3.50	25.53	46.00	-20.47
54.25	Н	Peak	45.21	-14.51	30.70	40.00	-9.30
100.81	Н	Peak	43.62	-16.94	26.68	43.50	-16.82
147.37	Н	Peak	31.81	-12.98	18.83	43.50	-24.67
491.72	Н	Peak	30.06	-8.50	21.56	46.00	-24.44
607.15	Н	Peak	29.99	-5.86	24.13	46.00	-21.87
811.82	Н	Peak	28.83	-2.75	26.08	46.00	-19.92

Remark:

- 1 Measuring frequencies from 30 MHz to the 1GHz_o
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH High Jul. 07, 2010 Test Date Fundamental Frequency 2480MHz Bondi Test By Temperature Pol Ver./Hor. 25

Humidity 65 %

	Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
_	(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
	60.07	V	Peak	49.08	-14.69	34.39	40.00	-5.61
	100.81	V	Peak	50.24	-16.94	33.30	43.50	-10.20
	152.22	V	Peak	31.98	-12.94	19.04	43.50	-24.46
	483.96	V	Peak	29.16	-8.56	20.60	46.00	-25.40
	610.06	V	Peak	29.45	-5.81	23.64	46.00	-22.36
	734.22	V	Peak	29.39	-4.49	24.90	46.00	-21.10
	54.25	Н	Peak	45.83	-14.51	31.32	40.00	-8.68
	89.17	Н	Peak	44.00	-17.70	26.30	43.50	-17.20
	149.31	Н	Peak	30.32	-12.90	17.42	43.50	-26.08
	481.05	Н	Peak	29.08	-8.56	20.52	46.00	-25.48
	650.80	Н	Peak	28.92	-4.96	23.96	46.00	-22.04
	850.62	Н	Peak	29.39	-1.97	27.42	46.00	-18.58

Remark:

- 1 Measuring frequencies from 30 MHz to the 1GHz_o
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH Low Jul. 07, 2010 Test Date Fundamental Frequency 2402 MHz Test By Bondi **Temperature** Pol Ver. 25

65 % Humidity

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4804.0	34.06		6.02	40.08		74.00	54.00	-13.92	Peak
7206.0						74.00	54.00		
9608.0						74.00	54.00		
12010.0						74.00	54.00		
14412.0						74.00	54.00		
16814.0						74.00	54.00		
19216.0						74.00	54.00		
21618.0						74.00	54.00		
24020.0						74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 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 Jul. 07, 2010 Test Date Fundamental Frequency 2402 MHz Test By Bondi **Temperature** Pol Hor. 25

65 % Humidity

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4804.0	34.74		6.02	40.76		74.00	54.00	-13.24	Peak
7206.0						74.00	54.00		
9608.0						74.00	54.00		
12010.0						74.00	54.00		
14412.0						74.00	54.00		
16814.0						74.00	54.00		
19216.0						74.00	54.00		
21618.0						74.00	54.00		
24020.0						74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 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 Jul. 07, 2010 Test Date Fundamental Frequency 2441 MHz Test By Bondi **Temperature** Pol Ver. 25

65 % Humidity

		Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
	Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
_	(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
	4882.0						74.00	54.00		
	7323.0						74.00	54.00		
	9764.0						74.00	54.00		
	12205.0						74.00	54.00		
	14646.0						74.00	54.00		
	17087.0						74.00	54.00		
	19528.0						74.00	54.00		
	21969.0						74.00	54.00		
	24410.0						74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 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 Jul. 07, 2010 Test Date Fundamental Frequency 2441 MHz Test By Bondi **Temperature** Pol Hor. 25

65 % Humidity

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4882.0						74.00	54.00		
7323.0						74.00	54.00		
9764.0						74.00	54.00		
12205.0						74.00	54.00		
14646.0						74.00	54.00		
17087.0						74.00	54.00		
19528.0						74.00	54.00		
21969.0						74.00	54.00		
24410.0						74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 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 Jul. 07, 2010 Test Date Fundamental Frequency 2480 MHz Test By Bondi **Temperature** Pol Ver. 25

65 % Humidity

Remark

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 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 Jul. 07, 2010 Test Date Fundamental Frequency 2480 MHz Test By Bondi **Temperature** Pol Hor. 25

65 % Humidity

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4960.0						74.00	54.00		
7440.0						74.00	54.00		
9920.0						74.00	54.00		
12400.0						74.00	54.00		
14880.0						74.00	54.00		
17360.0						74.00	54.00		
19840.0						74.00	54.00		
22320.0						74.00	54.00		
24800.0						74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 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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10. FREQUENCY SEPARATION

10.1. Standard Applicable

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

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

10.5. Measurement Result:

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

Note: Refer to next page for plots.

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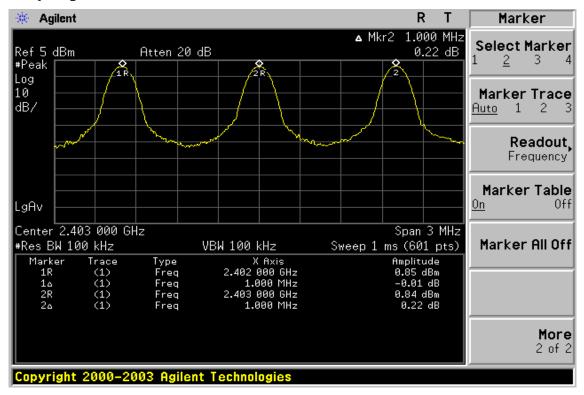


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Frequency Separation Test Data



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11. NUMBER OF HOPPING FREQUENCY

11.1. Standard Applicable

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

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 spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 4. Set the spectrum analyzer as RBW, VBW=430KHz/1.3MHz,
- 5. Max hold, view and count how many channel in the band.

11.5. Measurement Result:

Note: Refer to next page for plots.

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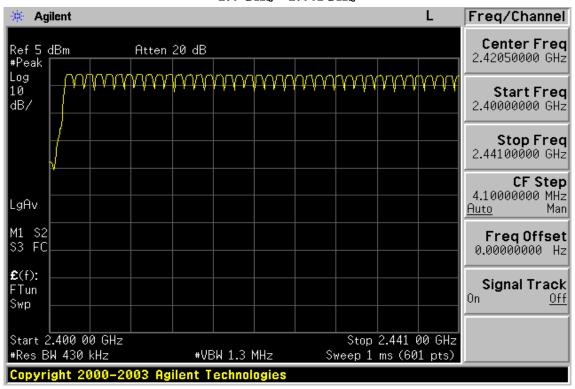
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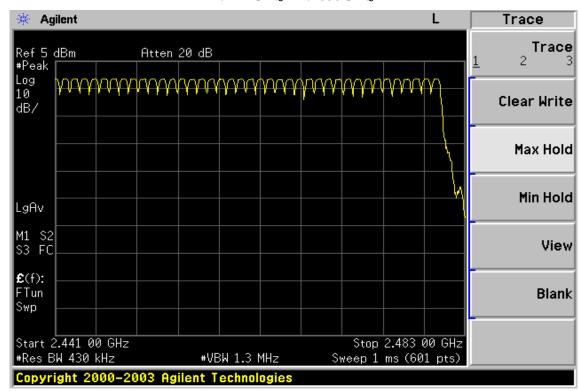
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Channel Number

2.4 GHz - 2.441GHz



2.441 GHz - 2.4835GHz



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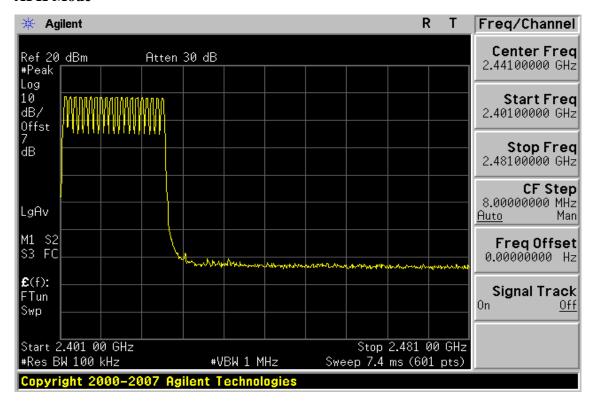


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AFH Mode



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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. Standard Applicable

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

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 center frequency of spectrum analyzer = operating frequency.
- 4. Set the spectrum analyzer as RBW, VBW=1MHz/1MHz, Span = 0Hz, Adjust Sweep = 2ms-5ms.
- 5. Repeat above procedures until all frequency measured were complete.

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12.5. Measurement Result

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

CH Low DH1 time slot = 0.327 (ms) * (1600/2/79) * 31.6 = 104.64 (ms)

DH3 time slot = 1.540 (ms) * (1600/4/79) * 31.6 = 246.40 (ms)

DH5 time slot = 2.892 (ms) * (1600/6/79) * 31.6 = 308.48 (ms)

CH Mid DH1 time slot = 0.327 (ms) * (1600/2/79) * 31.6 = 104.64 (ms)

DH3 time slot = 1.540 (ms) * (1600/4/79) * 31.6 = 246.40 (ms)

DH5 time slot = 2.892 (ms) * (1600/6/79) * 31.6 = 308.48 (ms)

DH1 time slot = 0.327 (ms) * (1600/2/79) * 31.6 = 104.64 (ms)CH High

DH3 time slot = 1.540 (ms) * (1600/4/79) * 31.6 = 246.40 (ms)

DH5 time slot = 2.892 (ms) * (1600/6/79) * 31.6 = 308.48 (ms)

Note: Refer to next page for plots.

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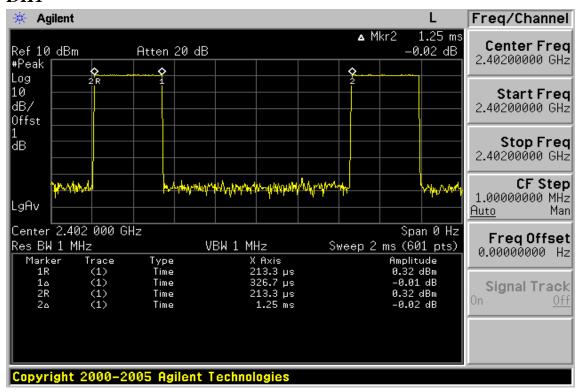
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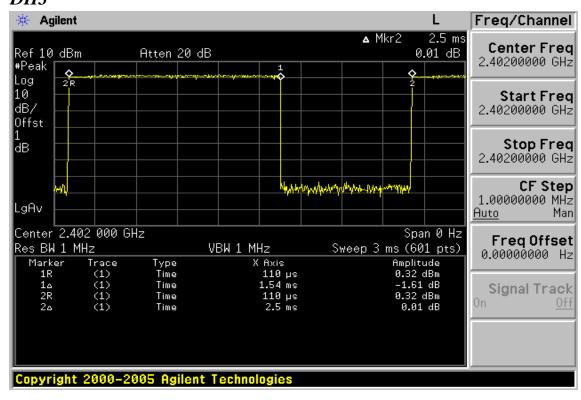
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CH-Low

DH1



DH3



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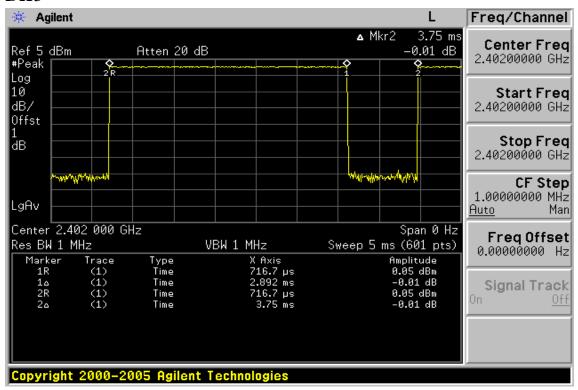


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DH5



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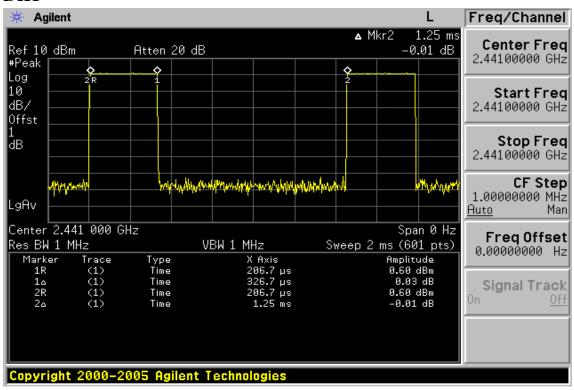
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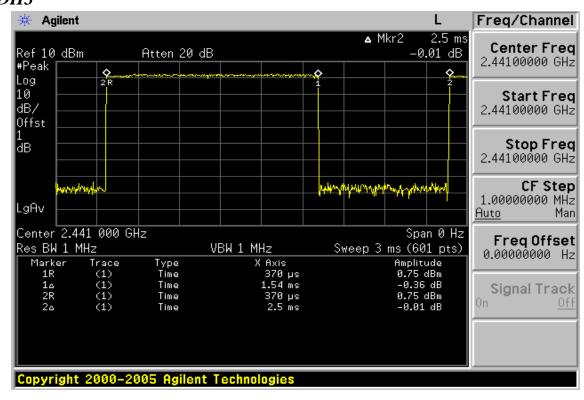
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CH-Mid

DH1



DH3



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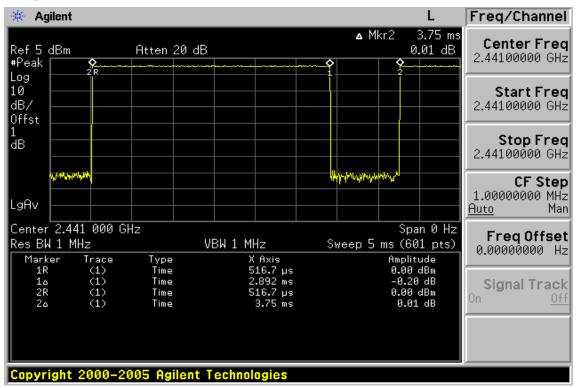


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DH5



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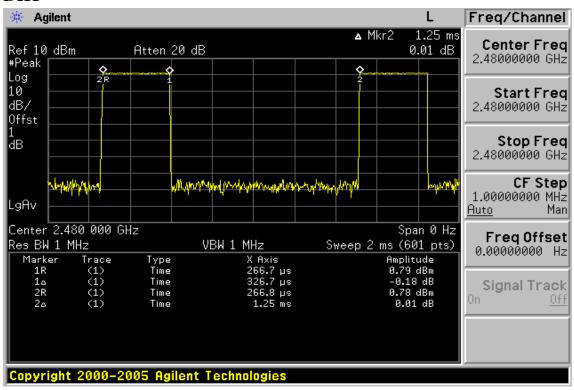
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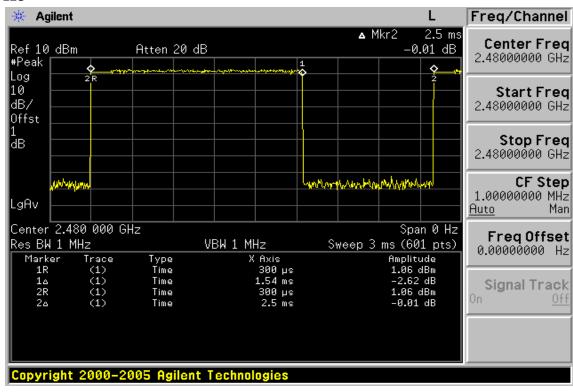
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CH-High

DH1



DH3



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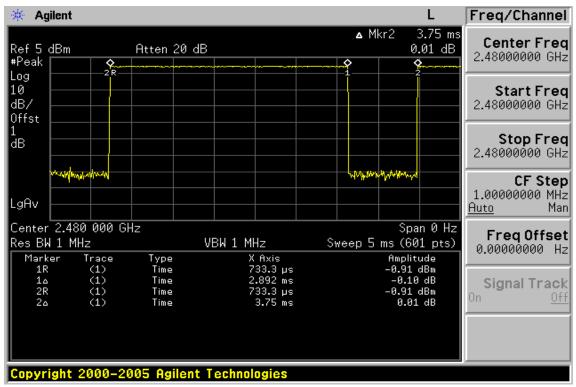


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DH5



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13. ANTENNA REQUIREMENT

13.1. 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.

13.2. Antenna Connected Construction

The directional gains of antenna used for transmitting is -2.17dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

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