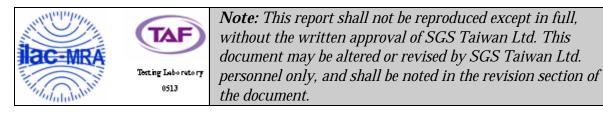


ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

	OF
Product Name:	BTF4XT
Marketing Name:	BTF4XT
Brand Name:	INTERPHONE
Model No.:	BTF4XT
Model Difference:	N/A
IC:	7717A-BTF4XT
FCC ID:	QVNBTF4XT
Report No.:	EF/2013/50014
Issue Date:	Jun. 14, 2013
Rule Part:	§15.247, Cat: DSS
	RSS-210 issue 8:2010, Annex 8
Prepared for:	Euro Communication Equipements SAS
	Route de Foix 11500 Nebias, Quillan, France
Prepared by:	SGS Taiwan Ltd.
	Electronics & Communication Laboratory
	No.134, Wu Kung Road, New Taipei Industrial
	Park, Wuku District, New Taipei City, Taiwan
	24803



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Report No.: EF/2013/50014 Issue Date: Jun. 14, 2013 Page: 2 of 57

CERTIFICATION OF COMPLIANCE

Applicant for :	Euro Communication Equipements SAS	
	Route de Foix 11500 Nebias, Quillan, France	
Product Name:	BTF4XT	
Marketing Name:	BTF4XT	
Brand Name:	INTERPHONE	
IC:	7717A-BTF4XT	
FCC ID:	QVNBTF4XT	
Model No.:	BTF4XT	
Model Difference:	N/A	
File Number:	EF/2013/50014	
Date of test:	May. 17, 2013 ~ May. 31, 2013	
Date of EUT Received:	May. 17, 2013	

We hereby certify that:

台

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 (2009) 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:	Nick Lin	Date:	Jun. 14, 2013
Prepared By:	Nick Lin / Engineer Vroletta Tang	Date:	Jun. 14, 2013
Approved By:	Violetta Tang / Clerk Jim Chang Jim Chang / Supervisor	Date:	Jun. 14, 2013

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Version

Version No.	Date	Description
00Jun. 14, 2013Initial creation o		Initial creation of document

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	BTF4XT				
Marketing Name:	BTF4XT				
Brand Name:	INTERPHON	Έ			
Model No.:	BTF4XT				
Model Difference:	N/A				
Hardware Version:	V1				
Software Version:	R1				
	3.7Vdc from a	rechargeable battery or 5Vdc from adapter			
Power Supply: Battery:		Model: 402060P Supplier: SHENZHEN BAK			
	Adapter :	Model: P6050070 EU, Supplier: Something High Electric (Xiamen) Co., Ltd.			

Bluetooth:

Bluetooth Version:	V3.0
Frequency Range:	2402 – 2480MHz
Channel number:	79 channels max.
Rated Power:	7.34 dBm (Peak)
Modulation type:	GFSK
Antenna Designation:	Printed PCB Antenna, Gain: 2.5dBi

The EUT is compliance with Bluetooth V3.0 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:** <u>**OVNBTF4XT**</u> filing to comply with Section 15.247 of the FCC Part 15C, Subpart C Rules. And **IC:** <u>**7717A-BTF4XT**</u> 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: 2009 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

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: 2009. FCC Registration Number is: 990257, 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 7.3.1 of ANSI C63.4-2009 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 C63.4-2009 and DA 00-705.

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2.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULTS

FCC / IC 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
<pre>§15.247(a)(1)(iii)/ RSS-210 issue 8,§A8.1(d)</pre>	Number of hopping frequency	Compliant
<pre>\$15.247(a)(1)(ii)/ RSS-210 issue 8,\$A8.1(d)</pre>	Time of Occupancy	Compliant
§15.247(a)(1) RSS210 issue 8,§A8.1(b)	20dB Bandwidth & 99% Power Bandwidth	Compliant
<pre>§15.203, §15.247(c)/ RSS-GEN 7.1.2, RSS-210 issue 8,§A8.4</pre>	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 BDR mode and DH5 highest data rate are chosen for full testing.

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MEASUREMENT UNCERTAINTY 5

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 1.55 dB
20dB Bandwidth & 99% Power Bandwidth	+/- 123.36 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 1.55 dB
Frequency Separation	+/- 123.36 Hz
Number of hopping frequency	+/- 123.36 Hz
Time of Occupancy	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the

95% confidence level using a coverage factor of k=2.

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6. AC POWER LINE CONDUCTED EMISSION TEST

6.1. 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.

Eroquonou rongo	Limits dB(uV)						
Frequency range	(UD)	(u v)					
MHz	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.

6.2. Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	EQUIPMENT MFR MODEL SERIAL							
ТҮРЕ		NUMBER	NUMBER	CAL.				
EMI Test Receiver	R&S	ESCI7	100759	02/08/2013	02/07/2014			
EMI Receiver	R&S	ESCS 30	828985/004	09/23/2012	09/22/2013			
LISN	Rolf-Heine	NNB-2/16Z	99012	03/23/2013	03/22/2014			
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/23/2013	03/22/2014			
Coaxial Cables	N/A	WK CE Cable	N/A	01/05/2013	01/04/2014			

6.3. EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2009.
- 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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6.4. 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.

6.5. 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.

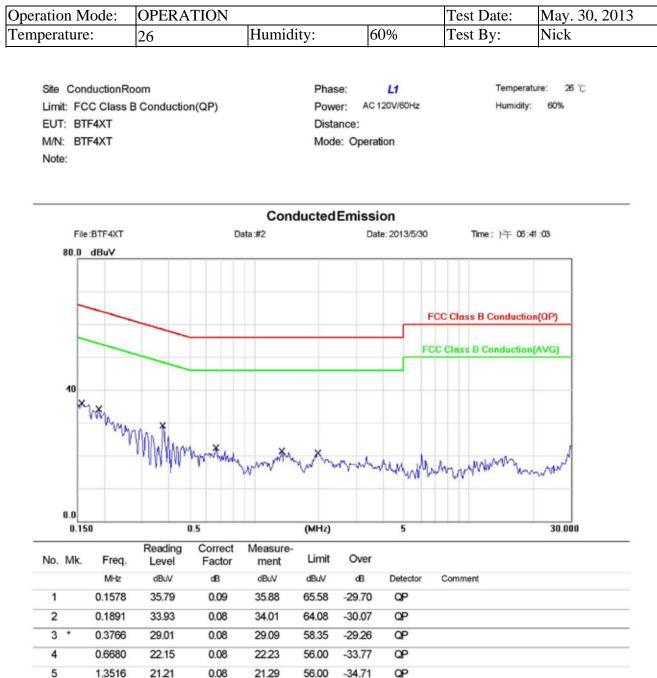
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AC POWER LINE CONDUCTED EMISSION TEST DATA



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0.10

20.72

56.00

-35.28

QP

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1.9883

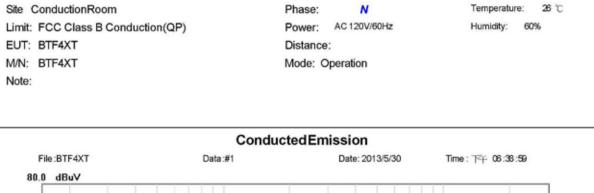
20.62

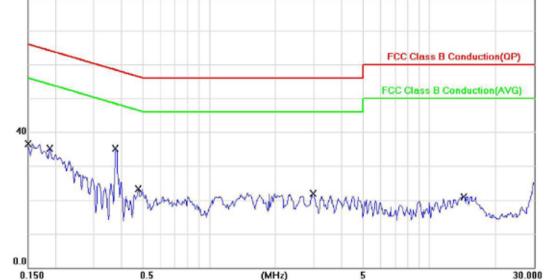
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1500	36.40	0.15	36.55	66.00	-29.45	QP		
2		0.1891	35.06	0.14	35.20	64.08	-28.88	QP		
3	*	0.3766	35.03	0.13	35.16	58.35	-23.19	QP		
4		0.4781	23.11	0.12	23.23	56.37	-33.14	QP		
5		2.9648	21.76	0.17	21.93	56.00	-34.07	QP		
6		14.4375	20.73	0.25	20.98	60.00	-39.02	QP		

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7. PEAK OUTPUT POWER MEASUREMENT

7.1. 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.

7.2. Measurement Equipment Used:

Conducted Emission Test Site										
EQUIPMENT	EQUIPMENT MFR			LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
Power Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014					
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014					
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014					
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/15/2013	03/14/2014					
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2013	02/27/2014					
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2013	01/04/2014					
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014					
Splitter	Agilent	11636B	N/A	02/28/2013	02/27/2014					

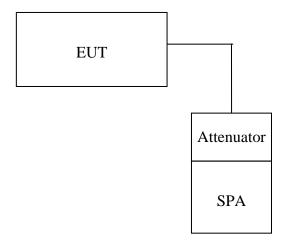
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7.3. Test Set-up:



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 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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7.5. Measurement Result:

BDR mode (GFSK):

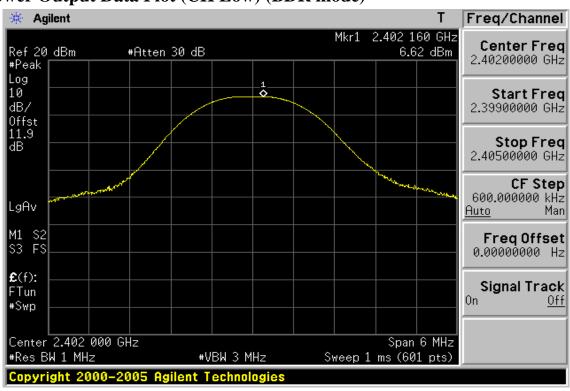
Frequency (MHz)	Reading Power (dBm)	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	6.62	6.62	0.00459	1
2441.00	6.79	6.79	0.00478	1
2480.00	7.34	7.34	0.00542	1

*Offset: 11.9dB Note: Refer to next page for plots.

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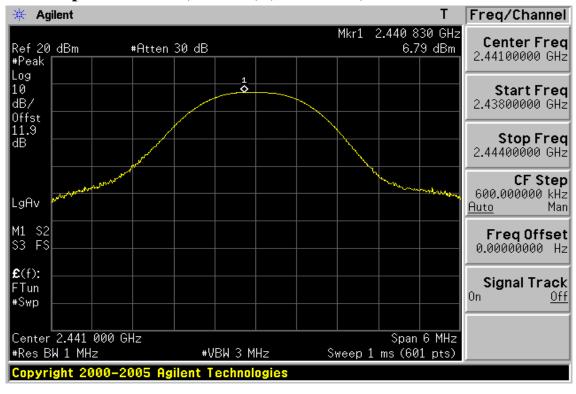
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Peak Power Output Data Plot (CH Low) (BDR mode)

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

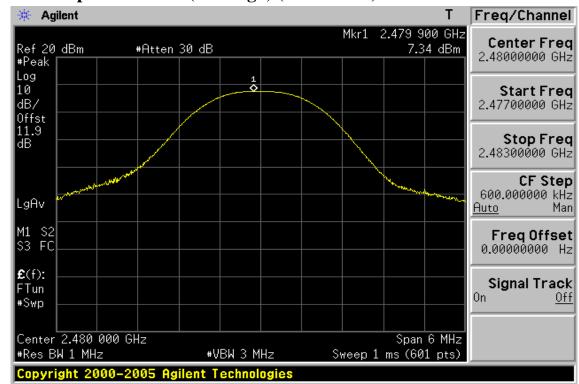


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Peak Power Output Data Plot (CH High) (BDR mode)

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8. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

8.1. Standard Applicable:

According to \$15.247(d), 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 in15.209(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.

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8.2. Measurement Equipment Used:

8.2.1. Conducted Emission at antenna port:

Refer to section 7.2 for details.

8.2.2. Radiated emission:

966 Chamber									
EQUIPMENT	EQUIPMENT MFR MODEL SERIAL								
ТҮРЕ		NUMBER	NUMBER	CAL.					
EMI Test Receiver	R&S	ESCI7	100759	02/08/2013	02/07/2014				
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014				
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/06/2013	02/07/2014				
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013				
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014				
Horn antenna	ETS.LINDGREN	3117	123995	05/31/2013	05/30/2014				
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013				
Pre-Amplifier	Agilent	8447D	2944A07676	01/04/2013	01/03/2014				
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2013	01/03/2014				
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M2	02/28/2013	02/28/2014				
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2013	02/27/2014				
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	966_Rx	9	01/04/2013	01/03/2014				
3m Site NSA	SGS	966 chamber	N/A	07/15/2012	07/14/2013				

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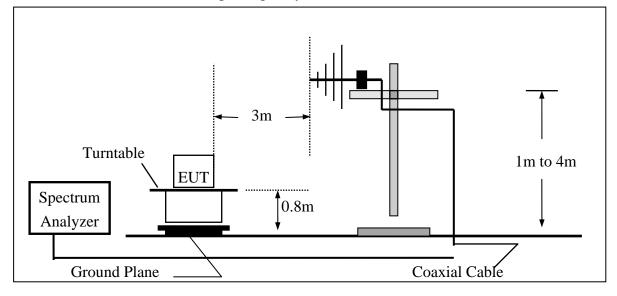
8.3. Test SET-UP:

8.3.1. Conducted Emission at antenna port:

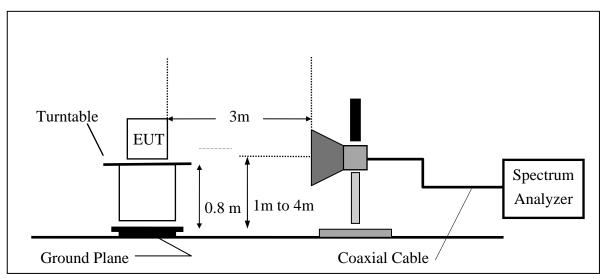
Refer to section 7.3 for details.

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.

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:

$\mathbf{FS} = \mathbf{RA} + \mathbf{AF} + \mathbf{CL} - \mathbf{AG}$

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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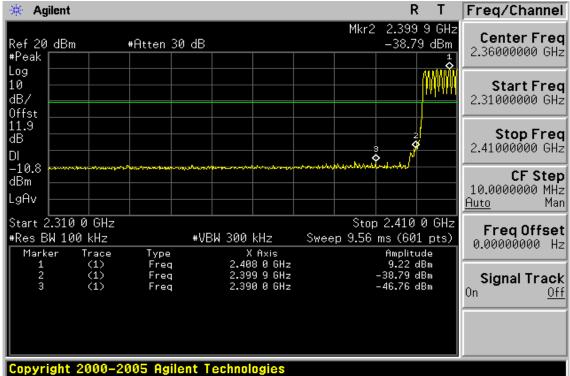
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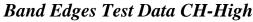
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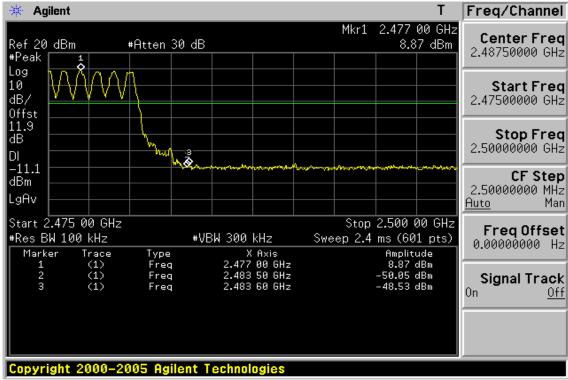


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BDR Mode Band Edges Test Data CH-Low







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Radiated En Operation Ba Fundamental Operation M EUT Pol.	nd Frequency	R mode) :BDR :2402 MHz :Bandedge I :E2 Plan	LOW	Test Date Temp./Humi. Engineer Measurement A	Antenna Pol.	:2013-05-28 :23deg_C/52 :JJ :VERTICAL	
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Lev	/el	FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Е	Average	38.31	2.12	40.43	54.00	-13.57
2390.00	E	Peak	45.69	2.12	47.81	74.00	-26.19
Operation Band:BDRFundamental Frequency:2402 MHzOperation Mode:Bandedge LOWEUT Pol.:E2 Plan		LOW	Test Date Temp./Humi. Engineer Measurement A	Antenna Pol.	:2013-05-28 :23deg_C/52 :JJ :HORIZONT		
Freq.	Note	Detector Mode	Spectrum Reading Lev		Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	E	Average	38.89	2.74	41.63	54.00	-12.37
2390.00	Е	Peak	47.42	2.74	50.16	74.00	-23.84

Actual FS($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB)

 $Factor(dB) = Antenna Factor(dB\mu V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)$

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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Operation Ba Fundamental Operation Me EUT Pol.	Frequency	:BDR :2480 MHz :Bandedge I :E2 Plan		Test Date Temp./Humi. Engineer Measurement A	ntenna Pol.	:2013-05-28 :23deg_C/52 :JJ :VERTICAL	
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Lev	vel	FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Average	39.34	2.53	41.87	54.00	-12.13
2483.50	E	Peak	48.52	2.53	51.05	74.00	-22.95
Operation Mode :Bando		:BDR :2480 MHz :Bandedge I :E2 Plan		Test Date Temp./Humi. Engineer Measurement A	ntenna Pol.	:2013-05-28 :23deg_C/52 :JJ :HORIZONT	
Freq.	Note	Detector Mode	Spectrum Reading Lev		Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Average	40.88	3.56	44.44	54.00	-9.56

Actual FS($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB)

 $Factor(dB) = Antenna Factor(dB\mu V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)$

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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9. SPURIOUS EMISSION TEST

9.1. Standard Applicable:

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

According to RSS-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.

9.2. Measurement Equipment Used:

9.2.1. Conducted Emission at antenna port:

Refer to section 7.2 for details.

9.2.2. Radiated emission:

Refer to section 8.2.2 for details.

9.3. Test SET-UP:

9.3.1. Conducted Emission at antenna port:

Refer to section 7.3 for details.

9.3.2. Radiated emission:

Refer to section 8.3.2 for details.

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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.

Conducted Emission:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 100K & VBW = 300K 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.

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:

$\mathbf{FS} = \mathbf{RA} + \mathbf{AF} + \mathbf{CL} - \mathbf{AG}$

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.

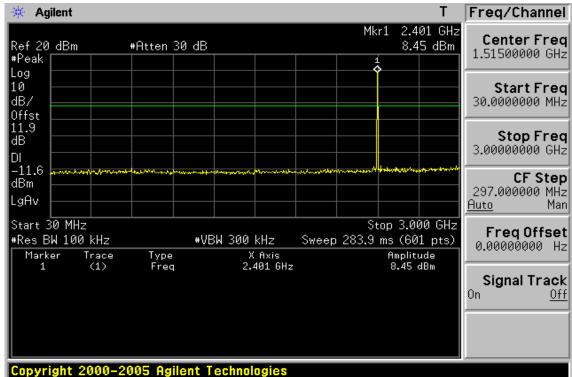
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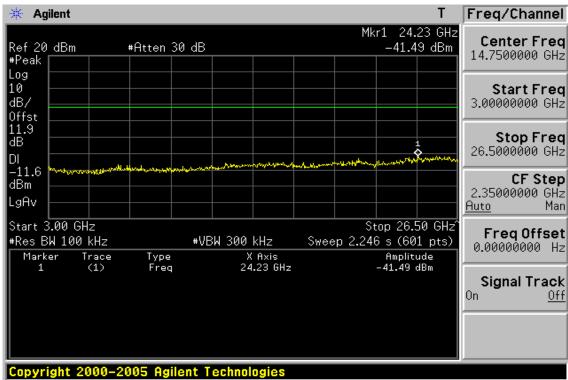


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Conducted Spurious Emission Measurement Result (BDR mode) Ch Low 30MHz – 3GHz

Ch Low 3GHz – 26.5GHz



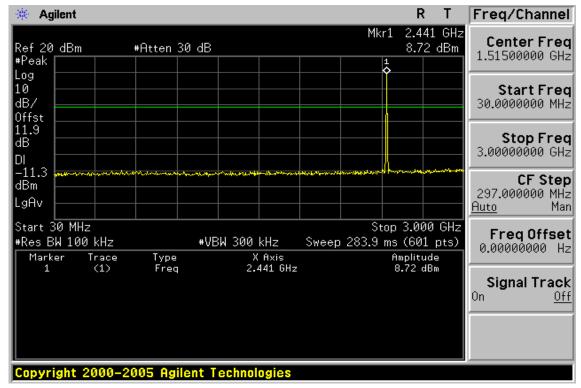
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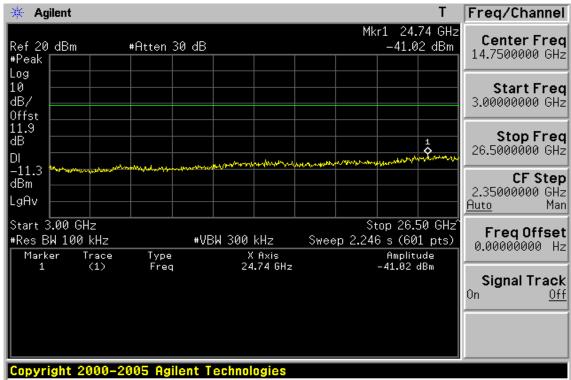
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Ch Mid 30MHz - 3GHz



Ch Mid 3GHz – 26.5GHz



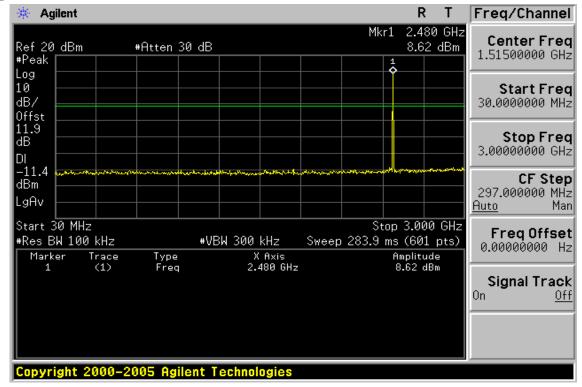
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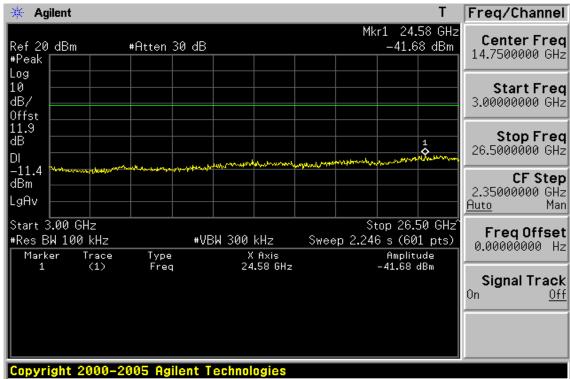
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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Radiated Spurious Emission Measurement Result Operation Band :BDR Test Date :2013-05-29 Fundamental Frequency :2402 MHz Temp./Humi. :23deg_C/52RH **Operation Mode** :TX LOW Engineer :JJ EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL Actual FS($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB)

 $Factor(dB) = Antenna Factor(dB\mu V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)$

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
71.71	S	Peak	30.11	-16.69	13.42	40.00	-26.58
99.84	S	Peak	31.42	-16.84	14.58	43.50	-28.92
128.94	S	Peak	29.85	-13.97	15.88	43.50	-27.62
352.04	S	Peak	34.02	-11.66	22.36	46.00	-23.64
583.87	S	Peak	32.68	-7.90	24.78	46.00	-21.22
907.85	S	Peak	27.97	-2.66	25.31	46.00	-20.69
1602.00	S	Average	48.87	-2.28	46.59	54.00	-7.41
1602.00	S	Peak	48.52	-2.28	46.24	74.00	-27.76
4804.00	Н	Average	41.02	6.99	48.01	54.00	-5.99
4804.00	Н	Peak	43.87	6.99	50.86	74.00	-23.14
7206.00	Н						
9608.00	Н						
12010.00	Н						
14412.00	Н						
16814.00	Н						
19216.00	Н						
21618.00	Н						

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FCC ID: QVNBTF4XT **IC: 7717A-BTF4XT**

Operation N EUT Pol.	ll Frequency Iode	:BDR :2402 MHz :TX LOW :E2 Plan	,]]	Test Date Temp./Humi. Engineer Measurement Antenna Pol.		:2013-05-29 :23deg_C/52RH :JJ :HORIZONTAL	
	•	PA. Reading le	· • /				
		• •		(dB) – Pre_Am	•		
			1	": denotes Harm	1	cy.	
		0 1	$1 \text{ ency.}; \mathbf{S}'': \mathbf{d}$	lenotes Spuriou	s Frequency.		
	" : denotes]		~	_		- · · ·	
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Leve		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
211.39	S	Peak	37.06	-15.76	21.30	43.50	-22.20
299.66	S	Peak	35.00	-12.58	22.42	46.00	-23.58
320.03	S	Peak	40.21	-12.09	28.12	46.00	-17.88
350.10	S	Peak	44.56	-11.69	32.87	46.00	-13.13
623.64	S	Peak	35.31	-7.05	28.26	46.00	-17.74
669.23	S	Peak	33.92	-6.21	27.71	46.00	-18.29
1602.00	S	Average	54.31	-1.69	52.62	54.00	-1.38
1602.00	S	Peak	55.37	-1.69	53.68	74.00	-20.32
4804.00	Н	Average	35.98	7.03	43.01	54.00	-10.99
4804.00	Н	Peak	40.66	7.03	47.69	74.00	-26.31
7206.00	Н						
9608.00	Н						
12010.00	Н						
14412.00	Н						
16814.00	Н						
19216.00	Н						

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Operation Band	:BDR	Test Date	:2013-05-29
Fundamental Frequency	:2441 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB)

 $Factor(dB) = Antenna Factor(dB\mu V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)$

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
114.39	S	Peak	31.05	-15.22	15.83	43.50	-27.67
160.95	S	Peak	26.90	-12.36	14.54	43.50	-28.96
349.13	S	Peak	32.14	-11.71	20.43	46.00	-25.57
404.42	S	Peak	30.20	-10.96	19.24	46.00	-26.76
600.36	S	Peak	32.36	-7.55	24.81	46.00	-21.19
704.15	S	Peak	29.15	-5.68	23.47	46.00	-22.53
1630.00	S	Average	31.54	-1.91	29.63	54.00	-24.37
1630.00	S	Peak	49.84	-1.91	47.93	74.00	-26.07
4882.00	Н	Average	33.89	7.16	41.05	54.00	-12.95
4882.00	Н	Peak	40.64	7.16	47.80	74.00	-26.20
7323.00	Н						
9764.00	Н						
12205.00	Н						
14646.00	Н						
17087.00	Н						
19528.00	Н						
21969.00	Н						

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24410.00

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Report No.: EF/2013/50014 **Issue Date: Jun. 14, 2013** Page: 37 of 57

Operation Band	:BDR	Test Date	:2013-05-29
Fundamental Frequency	:2441 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB)

 $Factor(dB) = Antenna Factor(dB\mu V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)$

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
191.99	S	Peak	41.48	-15.76	25.72	43.50	-17.78
330.70	S	Peak	42.35	-11.92	30.43	46.00	-15.57
346.22	S	Peak	54.83	-11.73	43.10	46.00	-2.90
401.51	S	Peak	41.18	-11.02	30.16	46.00	-15.84
514.03	S	Peak	32.71	-9.32	23.39	46.00	-22.61
612.97	S	Peak	35.11	-7.28	27.83	46.00	-18.17
1630.00	S	Average	53.08	-1.25	51.83	54.00	-2.17
1630.00	S	Peak	56.66	-1.25	55.41	74.00	-18.59
4882.00	Н	Average	32.59	7.10	39.69	54.00	-14.31
4882.00	Н	Peak	40.29	7.10	47.39	74.00	-26.61
7323.00	Н						
9764.00	Н						
12205.00	Н						
14646.00	Н						
17087.00	Н						
19528.00	Н						
21969.00	Н						

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Operation Band	:BDR	Test Date	:2013-05-29
Fundamental Frequency	:2480 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB)

 $Factor(dB) = Antenna Factor(dB\mu V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)$

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
128.94	S	Peak	29.81	-13.97	15.84	43.50	-27.66
162.89	S	Peak	27.30	-12.52	14.78	43.50	-28.72
344.28	S	Peak	34.59	-11.76	22.83	46.00	-23.17
584.84	S	Peak	32.74	-7.88	24.86	46.00	-21.14
653.71	S	Peak	31.70	-6.51	25.19	46.00	-20.81
788.54	S	Peak	27.90	-4.35	23.55	46.00	-22.45
1651.00	S	Average	51.22	-1.65	49.57	54.00	-4.43
1651.00	S	Peak	51.99	-1.65	50.34	74.00	-23.66
4960.00	Н	Average	34.80	7.17	41.97	54.00	-12.03
4960.00	Н	Peak	39.59	7.17	46.76	74.00	-27.24
7440.00	Н						
9920.00	Н						
12400.00	Н						
14880.00	Н						
17360.00	Н						
19840.00	Н						
22320.00	Н						

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Operation Band	:BDR	Test Date	:2013-05-29
Fundamental Frequency	:2480 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB)

 $Factor(dB) = Antenna Factor(dB\mu V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)$

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
			•		•	•	
181.32	S	Peak	39.76	-14.68	25.08	43.50	-18.42
191.99	S	Peak	41.12	-15.76	25.36	43.50	-18.14
343.31	S	Peak	47.40	-11.76	35.64	46.00	-10.36
352.04	S	Peak	51.02	-11.66	39.36	46.00	-6.64
612.97	S	Peak	34.79	-7.28	27.51	46.00	-18.49
669.23	S	Peak	33.39	-6.21	27.18	46.00	-18.82
1651.00	S	Average	53.61	-0.93	52.68	54.00	-1.32
1651.00	S	Peak	55.79	-0.93	54.86	74.00	-19.14
4960.00	Н	Average	32.06	7.02	39.08	54.00	-14.92
4960.00	Н	Peak	37.87	7.02	44.89	74.00	-29.11
7440.00	Н						
9920.00	Н						
12400.00	Н						
14880.00	Н						
17360.00	Н						
19840.00	Н						
22320.00	Н						

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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.

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.

10.2. Measurement Equipment Used:

Refer to section 7.2 for details.

10.3. Test Set-up:

Refer to section 7.3 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, Adjust Span to 5.0 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 2/3 times 20dB bandwidth	PASS

Note: Refer to next page for plots.

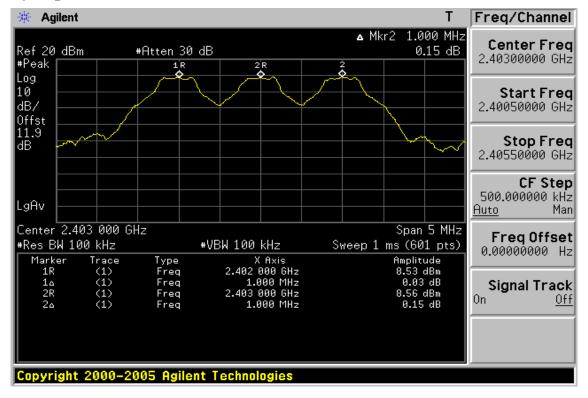
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Frequency Separation Test Data



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11. NUMBER OF HOPPING FREQUENCY

11.1. Standard Applicable:

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

According to RSS-210 issue 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.

11.2. Measurement Equipment Used:

Refer to section 7.2 for details.

11.3. Test Set-up:

Refer to section 7.3 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=430KHz, VBW=1.5MHz,
- 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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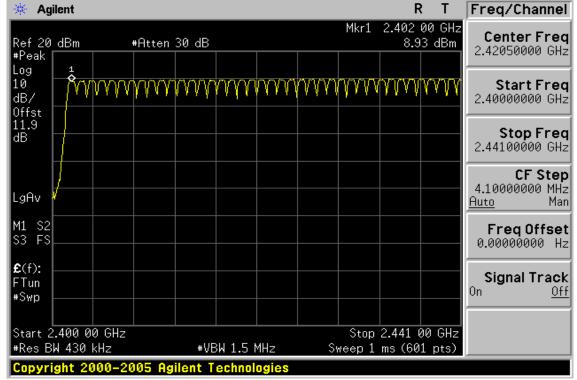
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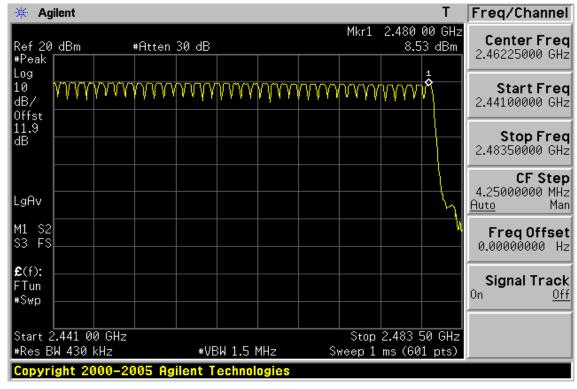


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Channel Number 2.4 GHz – 2.441GHz



2.441 GHz - 2.4835GHz



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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. Standard Applicable:

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

According to RSS-210 issue 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.

12.2. Measurement Equipment Used:

Refer to section 7.2 for details.

12.3. Test Set-up:

Refer to section 7.3 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=1MHz, VBW=3MHz, Span = 0Hz, Adjust Sweep = $2 \sim 7$ ms.
- 5. Repeat above procedures until all frequency measured were complete.

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12.5. Measurement Result:

A period time	e = 0.4 (ms) * 79 = 31.6 (s)
CH Low:	DH1 time slot = $0.390 \text{ (ms)} * (1600/(2*79)) * 31.6 = 124.8 \text{ (ms)}$
	DH3 time slot = $1.650 \text{ (ms)} * (1600/(4*79)) * 31.6 = 264.0 \text{ (ms)}$
	DH5 time slot = $2.895 \text{ (ms)} * (1600/(6*79)) * 31.6 = 308.8 \text{ (ms)}$
CH Mid:	DH1 time slot = $0.390 \text{ (ms)} * (1600/(2*79)) * 31.6 = 124.8 \text{ (ms)}$
	DH3 time slot = $1.650 \text{ (ms)} * (1600/(4*79)) * 31.6 = 264.0 \text{ (ms)}$
	DH5 time slot = $2.895 \text{ (ms)} * (1600/(6*79)) * 31.6 = 308.8 \text{ (ms)}$
CH High:	DH1 time slot = $0.390 \text{ (ms)} * (1600/(2*79)) * 31.6 = 124.8 \text{ (ms)}$
	DH3 time slot = $1.650 \text{ (ms)} * (1600/(4*79)) * 31.6 = 264.0 \text{ (ms)}$
	DH5 time slot = 2.895 (ms) * (1600/(6*79)) * 31.6 = 308.8 (ms)

Note: Refer to next page for plots.

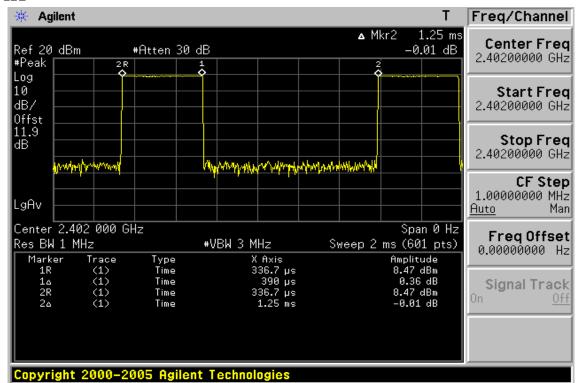
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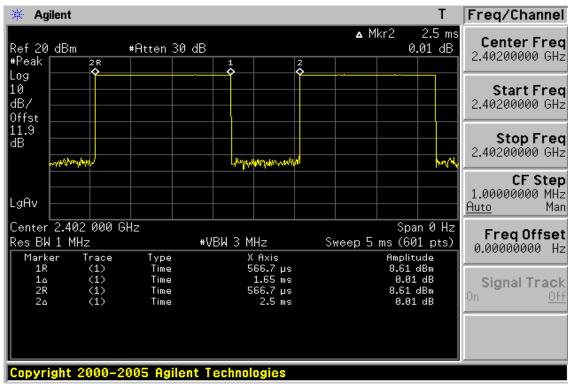


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CH-Low DH1



DH3



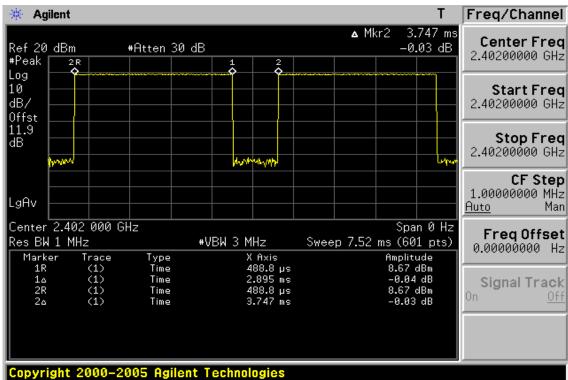
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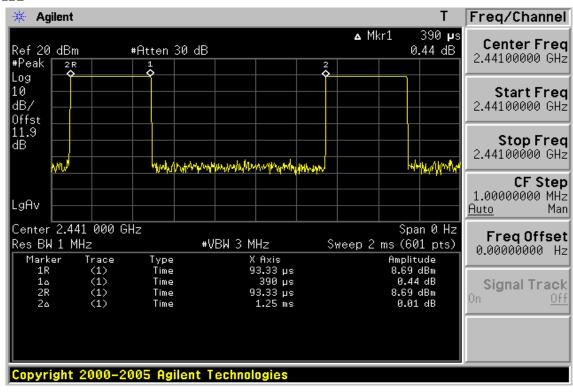
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DH5



CH-Mid DH1



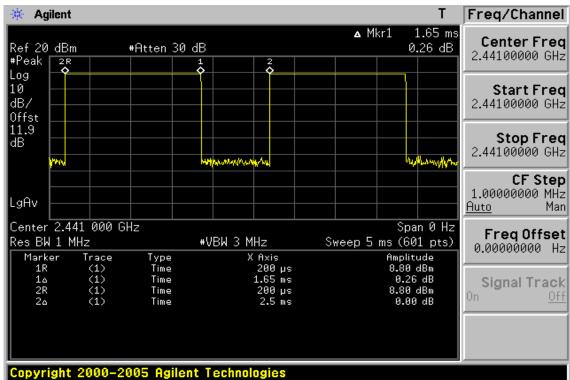
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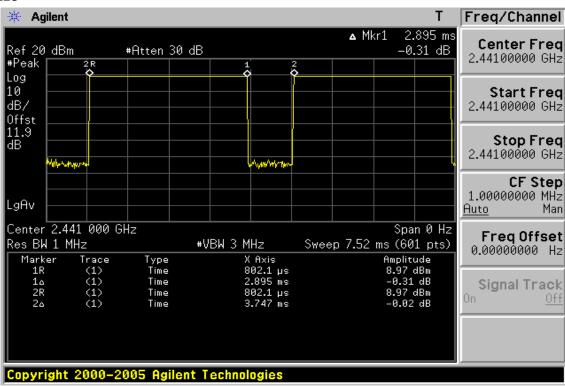
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DH3



DH5



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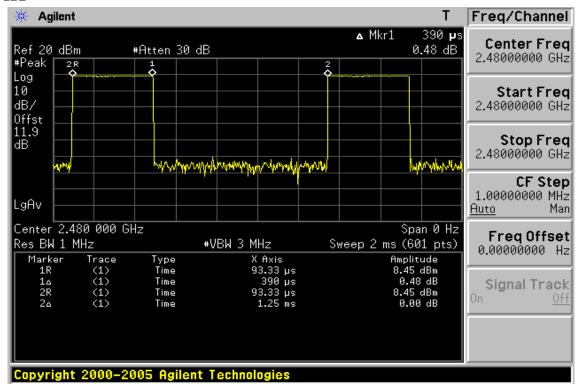
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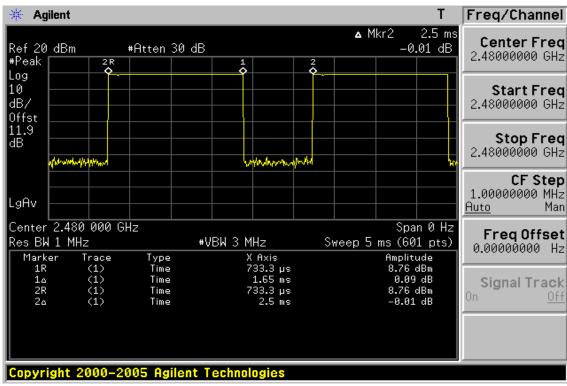


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CH-High DH1



DH3



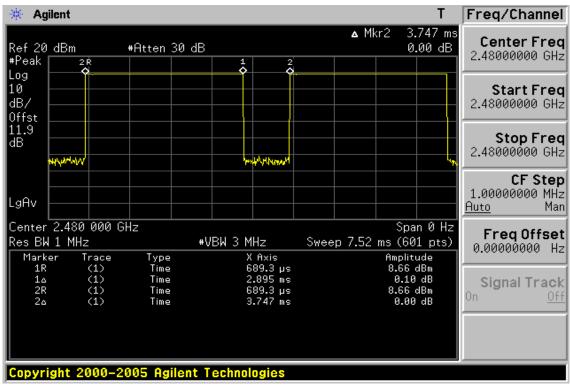
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DH5



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13. 20DB BANDWIDTH & 99% BANDWIDTH

13.1. Standard Applicable:

For 20 dB Bandwidth

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.

For 99% Bandwidth

RSS-Gen §4.6.1, the transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

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

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

13.2. Measurement Equipment Used:

Refer to section 7.2 for details.

13.3. Test Set-up:

Refer to section 7.3 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=10KHz (1 % of Bandwidth.), Span= 3MHz, Sweep=auto for 20dB Bandwidth test.

4. Mark the peak frequency and –20dB (upper and lower) frequency and Turn on the 99% bandwidth function, max reading.

5. Repeat above procedures until all frequency measured were complete.

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13.5. Measurement Result:

20dB Bandwidth: BDR Mode (GFSK)

СН	Bandwidth (kHz)
Lower	927.036
Mid	927.568
Higher	927.948

99% Bandwidth: BDR Mode (GFSK)

СН	Bandwidth (kHz)
Lower	850.3846
Mid	849.1164
Higher	858.1088

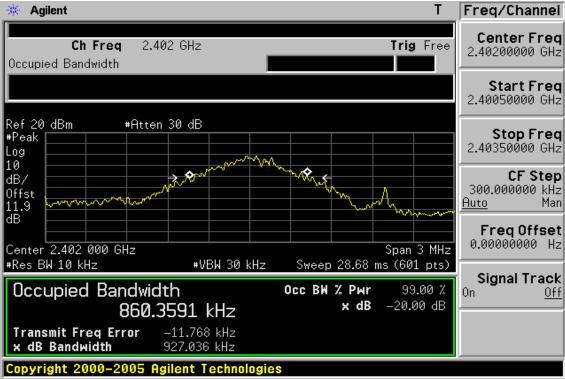
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BDR Mode 20dB Bandwidth Test Data CH-Low



20dB Bandwidth Test Data CH-Mid



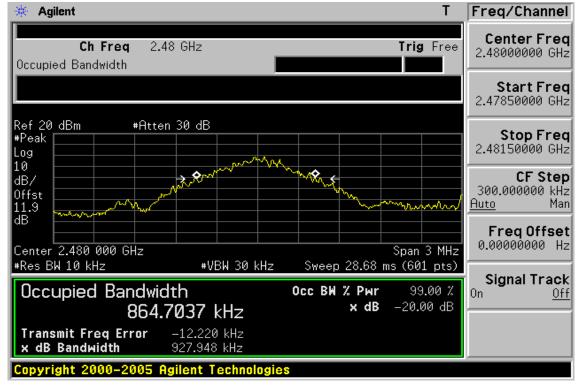
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20dB Bandwidth Test Data CH-High

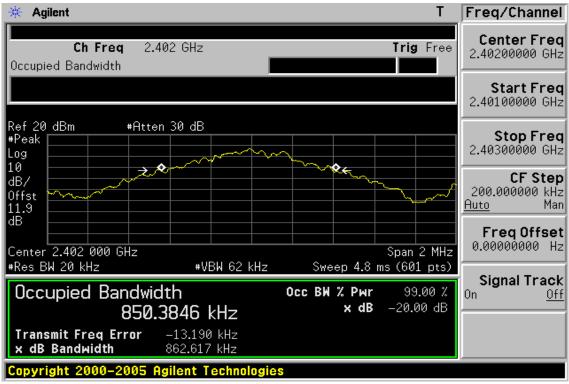


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BDR Mode 99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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99% Band Width Test Data CH-High



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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 2.5dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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