

## **FCC Test Report**

FCC Part 15.247 for FHSS systems / CANADA RSS-210

FOR:

Handheld PC with BT

MODEL #: D7900LUPE, D7900BUPE

Hand Held Products, Inc. 700 Vision Drive Skaneateles Falls, NY 13153 U.S.A

FCC ID: HD57900LUPE, HD57900BUPE IC-ID: 1693B-79E

Test report no.: EMC\_HANDH\_015\_06002\_FCC15.247\_BT











FCC listed# 101450

IC recognized # 3925

#### CETECOM Inc.

411 Dixon Landing Road • Milpitas, CA 95035 • U.S.A.



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#### 1 General information

#### 1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

## **1.2** Testing laboratory

**CETECOM Inc.** 

411 Dixon Landing Road, Milpitas, CA-95035, USA Phone: +1 408 586 6200 Fax: +1 408 586 6299

E-mail: lothar.schmidt@cetecomusa.com

**Internet: www.cetecom.com** 



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### 1.3 Details of applicant

Name : Hand Held Products, Inc.

Street : 700 Vision Drive

City / Zip Code : Skaneateles Falls, NY 13153

Country : U.S.A

 Contact
 :
 Naveen Velagapudi

 Telephone
 :
 +1 315 685 2931

 Tele-fax
 :
 +1 315 685 1210

e-mail : velagapudin@hhp.com

1.4 Application details

Date of receipt test item : 2004-12-15 Date of test : 2004-12-15/16

1.5 Test item

Manufacturer : Applicant Marketing Name : Dolphin 7900

Model No. : **D7900LUPE. D7900BUPE** 

Description : Dolphin 7900 is a ruggedized handheld computer which can

read barcodes and other auto ID codes. It contains three different transmitters (BT, WLAN and GSM) to send and

receive data.

FCC-ID HD57900LUPE, HD57900BUPE

IC-ID : 1693B-79E

**Additional information** 

Test Sample for BT : s/n 0046785, 0046792 (used only for 30M-1GHz)

Frequency : 2402MHz - 2480MHz for BT

Type of modulation : GFSK
Number of channels : 79
Antenna : Internal

Power supply : Battery or Charger (AC Adaptor)

Output power : -11.4dBm (0.00007W) max. conducted peak power



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1.6 Test standards: FCC Part 15 §15.247 (DA00-705) / RSS 210

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

#### **PROJECT OVERVIEW:**

NOTE: This test report covers all radiated measurements as per FCC15.247 for BT module in HHP handheld computer model#D7900LUPE. For all conducted measurements please refer to test report# BT\_cond\_Socket.



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### 2 Technical test

## 2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests  Performed		
Final Verdict: (only "passed" if all single measurements are "passed")	Passed	

Technical responsibility for area of testing:

Michael Grings 2006-07-28 EMC & Radio (Deputy Manager) Midael Sp

Date Section Name Signature



2.2 Test report
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## **TEST REPORT**

Test report no.:  $EMC\_HANDH\_015\_06002\_FCC15.247\_BT$ 



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## TEST REPORT REFERENCE

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# MAXIMUM PEAK OUTPUT POWER (CONDUCTED)

§ 15.247 (b) (1)

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)			
Frequency (MHz)		2402 2441 2480			
T <sub>nom</sub> (23)°C	$\mathbf{V}_{ ext{nom}}$	-13.6	-12.7	-11.4	
Measurement uncertainty			±0.5dBm		

RBW/VBW: 3 MHz

### **LIMIT**

## **SUBCLAUSE § 15.247 (b) (1)**

Frequency range	RF power output
2400-2483.5 MHz	1.0 Watt conducted



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# MAXIMUM PEAK OUTPUT POWER (RADIATED)

§ 15.247 (b) (1)

EIRP:

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)			
Frequency (MHz)		2402 2441 2480			
T <sub>nom</sub> (23)°C	$\mathbf{V}_{ ext{nom}}$	-19.99	-21.63	-22.65	
Measurement uncertainty			±0.5dBm		

RBW/VBW: 3 MHz

#### **LIMIT**

### **SUBCLAUSE § 15.247 (b) (1)**

Frequency range	RF power output
2400-2483.5 MHz	1.0 Watt conducted



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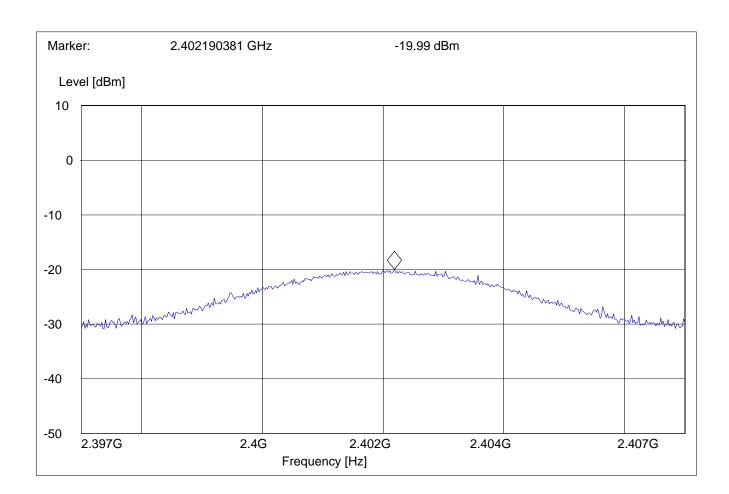
#### PEAK OUTPUT POWER (RADIATED)

§15.247 (b) (1)

#### **Lowest Channel: 2402MHz**

SWEEP TABLE: "EIRP BT low channel"

Short Description: EIRP Bluetooth channel-2402MHz Start Stop Detector Meas. IF BWFrequency Frequency Time 2.397GHz 2.407GHz Coupled 3 MHz MaxPeak





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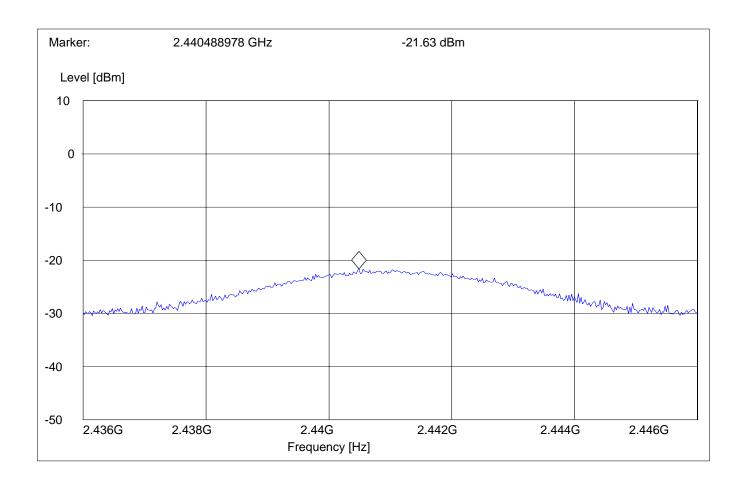
### PEAK OUTPUT POWER (RADIATED)

§15.247 (b) (1)

Mid Channel: 2441MHz

SWEEP TABLE: "EIRP BT Mid channel"

EIRP Bluetooth channel-2441MHz Short Description: Detector Meas. Start Stop ΙF Frequency Frequency Time BW2.436GHz 2.446GHz MaxPeak Coupled 3 MHz





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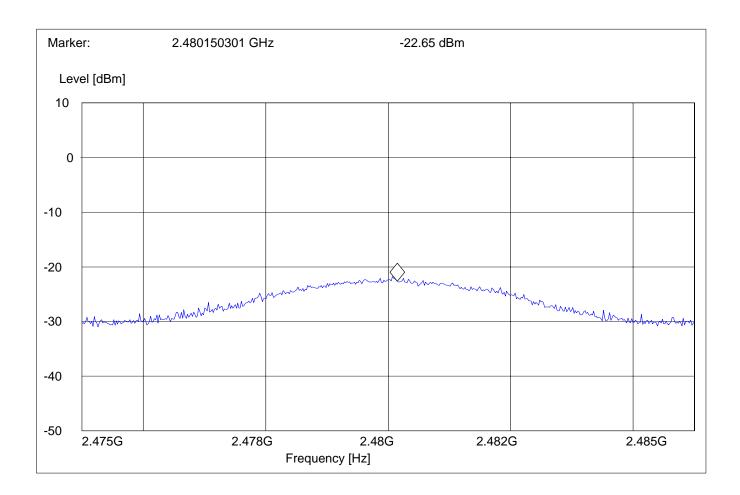
### PEAK OUTPUT POWER (RADIATED)

§15.247 (b) (1)

**Highest Channel: 2480MHz** 

SWEEP TABLE: "EIRP BT High channel"

Short Description: EIRP Bluetooth channel-2480MHz Detector Meas. IF Start Stop Frequency Frequency Time BW 2.475GHz 2.485GHz MaxPeak Coupled 3 MHz





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#### BAND EDGE COMPLIANCE

§15.247 (c)

## Low frequency section (spurious in the restricted band $2310-2390\ MHz)$ Average Measurement

#### (This plot is valid for both Hopping ON & OFF)

Operating condition : Tx at 2402MHz

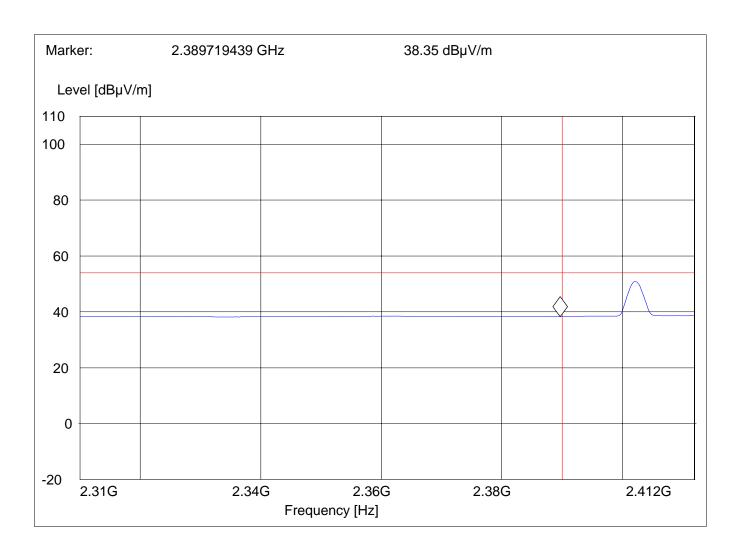
SWEEP TABLE : "FCC15.247 LBE\_AVG"
Short Description : FCC15.247 BT Low-band-edge

Limit Line :  $54dB\mu V$ 

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.31 GHz 2.412 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





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#### BAND EDGE COMPLIANCE

§15.247 (c)

## Low frequency section (spurious in the restricted band $2310-2390\ MHz)$ Peak Measurement

#### (This plot is valid for both Hopping ON & OFF)

Operating condition : Tx at 2402MHz

SWEEP TABLE : "FCC15.247 LBE\_Pk"

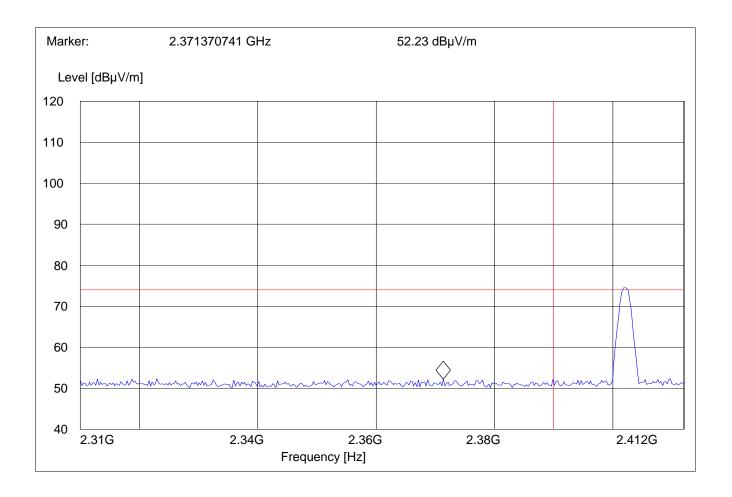
Short Description : FCC15.247 BT Low-band-edge

Limit Line : 74dBµV

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.31 GHz 2.412 GHz MaxPeak Coupled 1 MHz 1MHz #326 horn (dBi)





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#### BAND EDGE COMPLIANCE

§15.247 (c)

## High frequency section (spurious in the restricted band $2483.5-2500\ MHz)$ Average Measurement

#### (This plot is valid for both Hopping ON & OFF)

Operating condition : Tx at 2480MHz

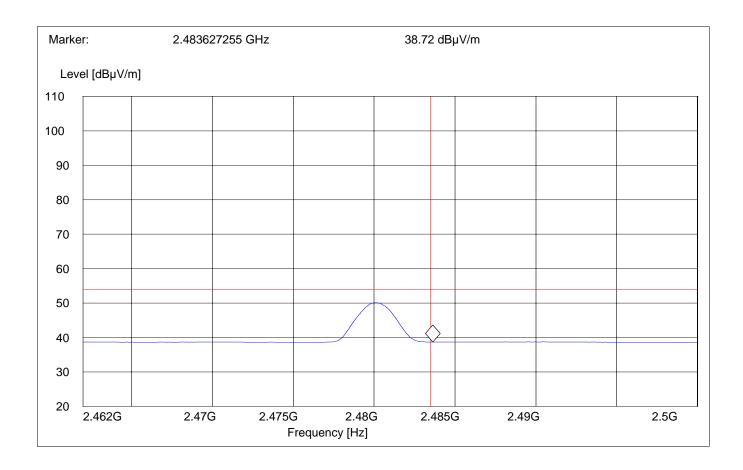
SWEEP TABLE : "FCC15.247 HBE\_AVG"
Short Description : FCC15.247 BT High-band-edge

Limit Line : 54dBµV

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.462 GHz 2.5 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





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#### BAND EDGE COMPLIANCE

§15.247 (c)

## High frequency section (spurious in the restricted band $2483.5 - 2500 \; MHz$ ) Peak Measurement

#### (This plot is valid for both Hopping ON & OFF)

Operating condition : Tx at 2480MHz

SWEEP TABLE : "FCC15.247 HBE\_PK"

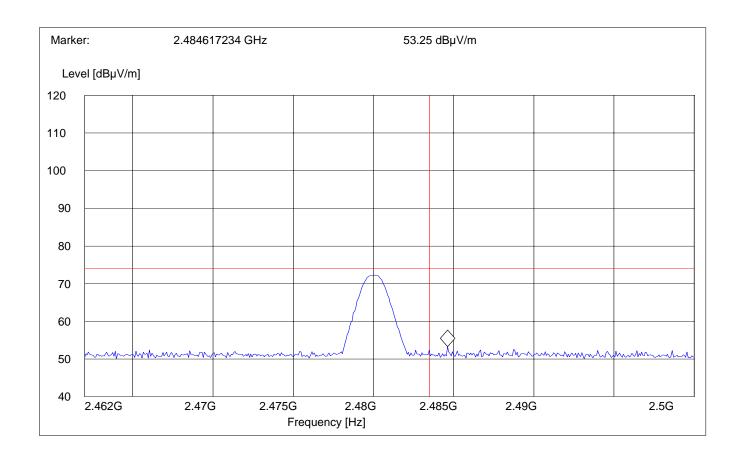
Short Description : FCC15.247 BT High-band-edge

Limit Line : 74dBµV

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.462 GHz 2.5 GHz MaxPeak Coupled 1 MHz 1MHz #326 horn (dBi)





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#### **EMISSION LIMITATIONS**

§ 15.247 (c) (1)

**Transmitter (Radiated)** 

#### **LIMITS**

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions that fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

#### **NOTE:**

- 1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 26.5 GHz very short cable connections to the antenna was used to minimize the noise level.
- 2. Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.
- 3. All measurements are done in peak mode unless specified with plots.

#### Results for the radiated measurements below 30MHz according § 15.33

Frequency	Measured values	Remarks
9KHz – 30MHz	No emissions found, caused by the EUT	This is valid for all the tested channels



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## **EMISSION LIMITATIONS - Radiated (Transmitter)**

§ 15.247 (c) (1)

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

Transmit at	Lowest channel	Frequency 2402MHz		
Frequency (MHz)	Level (dBµV/m)			
	Peak	Quasi-Peak	Average	
	SEE PLO	TS		
Transmit at	Middle channel	Frequency 2441MHz		
Frequency (MHz)	Level (dBµV/m)			
	Peak Quasi-Peak		Average	
	SEE PLO	ΤS		
Transmit at	Highest channel	Frequency 2480MHz	1	
Frequency (MHz)	Level (dBµV/m)			
	Peak	Quasi-Peak	Average	
	SEE PLO	TS		



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#### **EMISSION LIMITATIONS - Radiated (Transmitter)**

§ 15.247 (c) (1)

30MHz – 1GHz Antenna: vertical

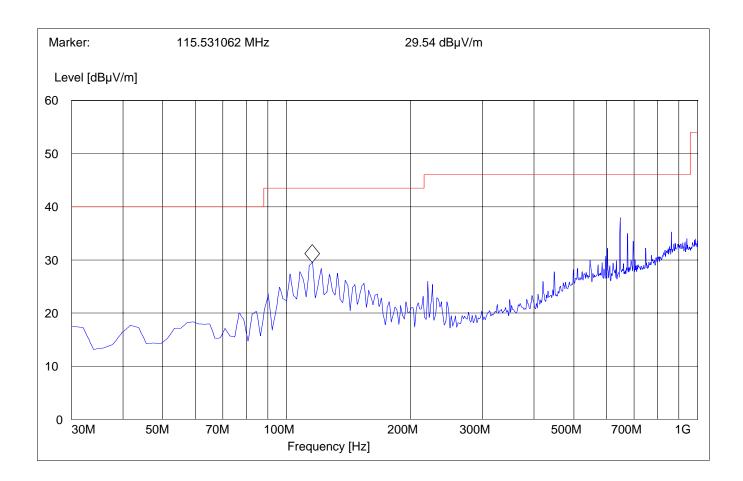
Note: This plot is valid for low, mid & high channels (worst-case plot)

SWEEP TABLE: "BT Spuri hi 30-1G"
Short Description: Bluetooth 30MHz-1GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 3141-#1186





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#### **EMISSION LIMITATIONS - Radiated (Transmitter)**

§ 15.247 (c) (1)

30MHz – 1GHz Antenna: horizontal

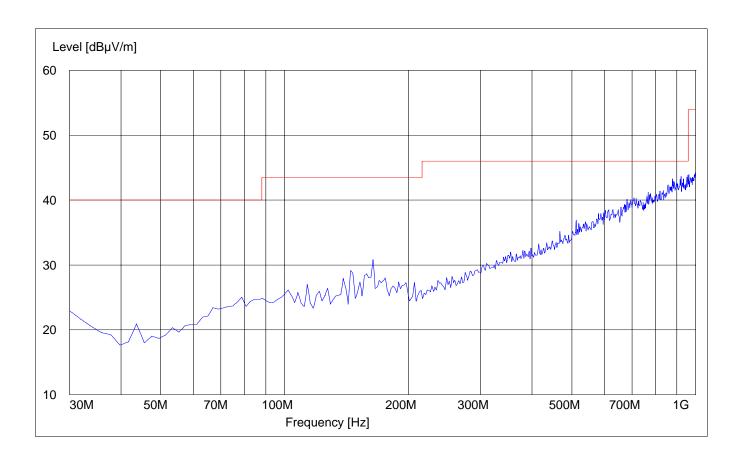
Note: This plot is valid for low, mid & high channels (worst-case plot)

SWEEP TABLE: "BT Spuri hi 30-1G"
Short Description: Bluetooth 30MHz-1GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 3141-#1186





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### **EMISSION LIMITATIONS - Radiated (Transmitter)**

§ 15.247 (c) (1)

**Lowest Channel (2402MHz): 1GHz – 3GHz** 

NOTE: The peak is the carrier frequency.

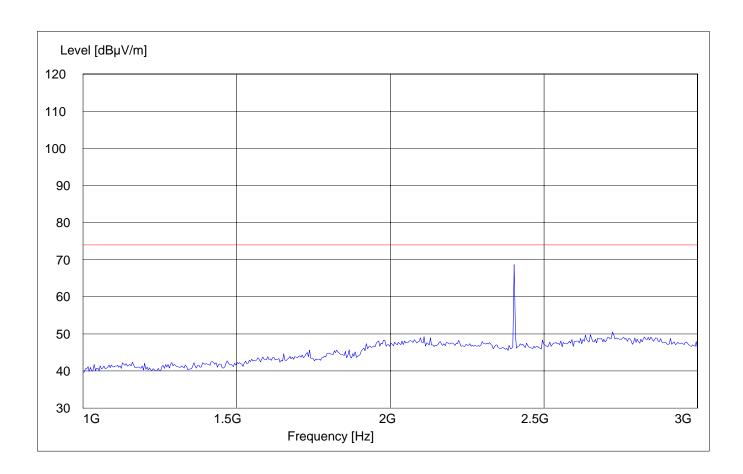
SWEEP TABLE: "BT Spuri hi 1-3G"

Short Description: Bluetooth Spurious 1-3GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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### **EMISSION LIMITATIONS - Radiated (Transmitter)**

§ 15.247 (c) (1)

Lowest Channel (2402MHz): 3GHz - 18GHz

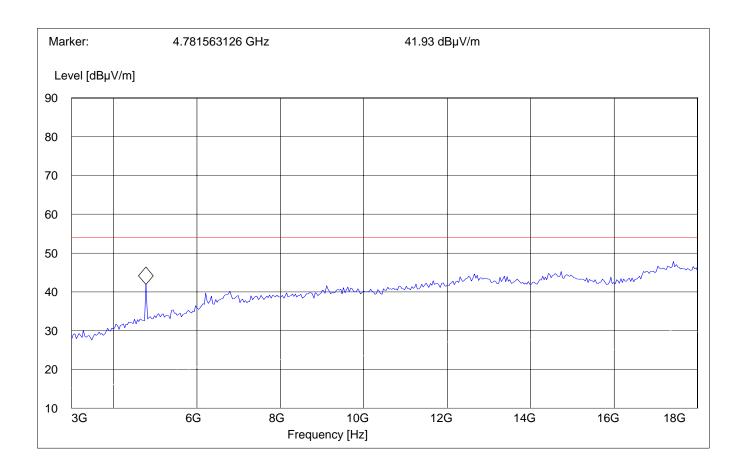
SWEEP TABLE: "BT Spuri hi 3-18G"

Short Description: Bluetooth Spurious 3-18 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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## ${\bf EMISSION\; LIMITATIONS\; -\; Radiated\; (Transmitter)}$

§ 15.247 (c) (1)

Middle Channel (2441MHz): 1GHz – 3GHz

NOTE: The peak is the carrier frequency.

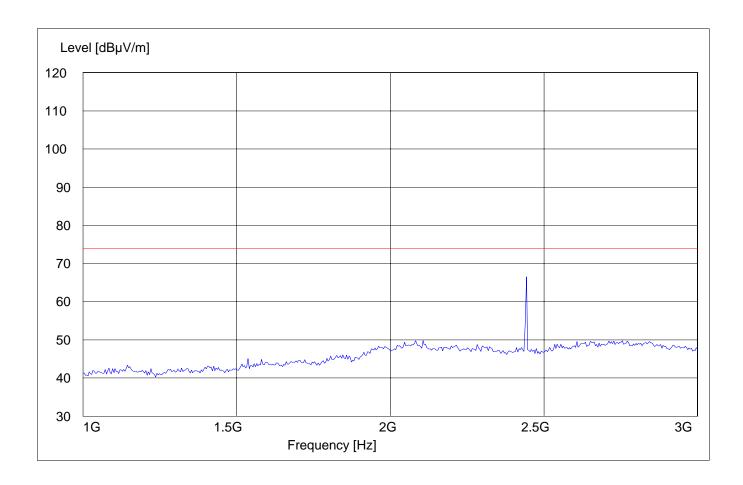
SWEEP TABLE: "BT Spuri hi 1-3G"

Short Description: Bluetooth Spurious 1-3GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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### **EMISSION LIMITATIONS - Radiated (Transmitter)**

§ 15.247 (c) (1)

Middle Channel (2441MHz): 3GHz - 18GHz

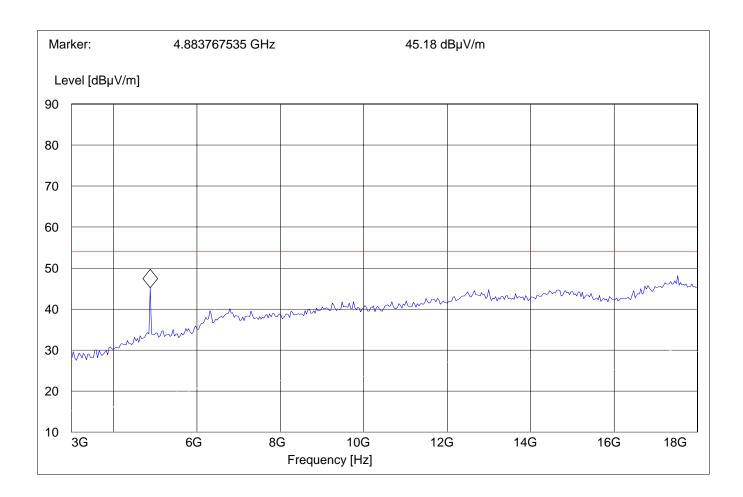
SWEEP TABLE: "BT Spuri hi 3-18G"

Short Description: Bluetooth Spurious 3-18GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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**EMISSION LIMITATIONS - Radiated (Transmitter)** 

§ 15.247 (c) (1)

**Highest Channel (2480MHz): 1GHz – 3GHz** 

#### NOTE: The peak is the carrier frequency.

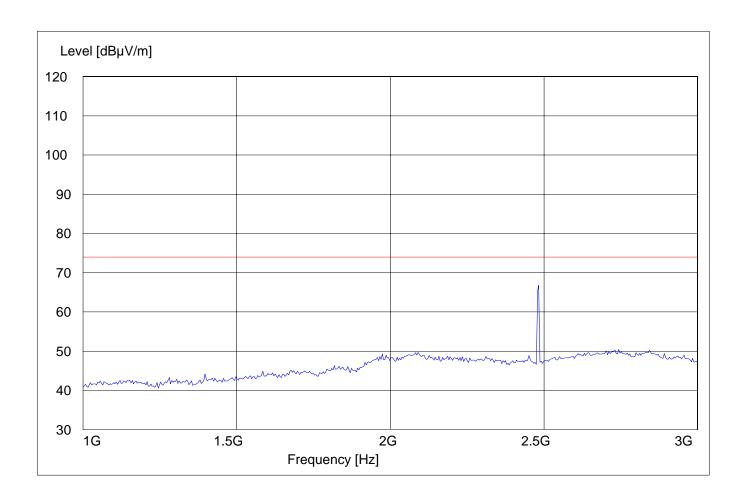
SWEEP TABLE: "BT Spuri hi 1-3G"

Short Description: Bluetooth Spurious 1-3GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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## EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1) Highest Channel (2480MHz): 3GHz – 18GHz

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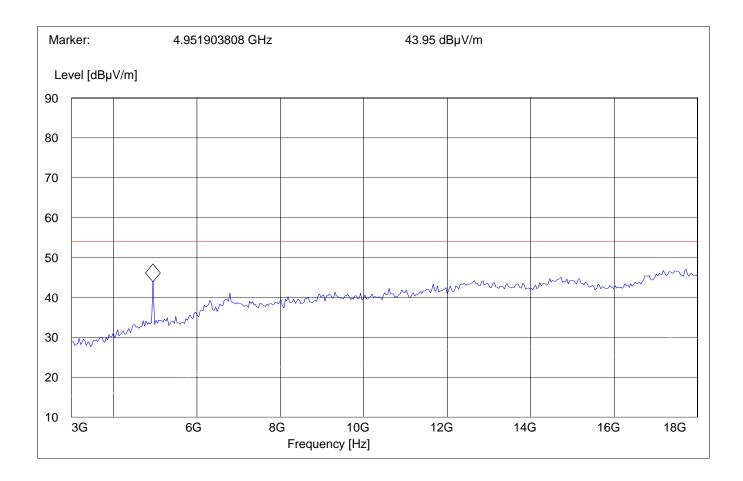
SWEEP TABLE: "BT Spuri hi 3-18G"

Short Description: Bluetooth Spurious 3-18GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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### **EMISSION LIMITATIONS - Radiated (Transmitter)**

§ 15.247 (c) (1)

18GHz - 26.5GHz

Note: This plot is valid for low, mid & high channels (worst-case plot)

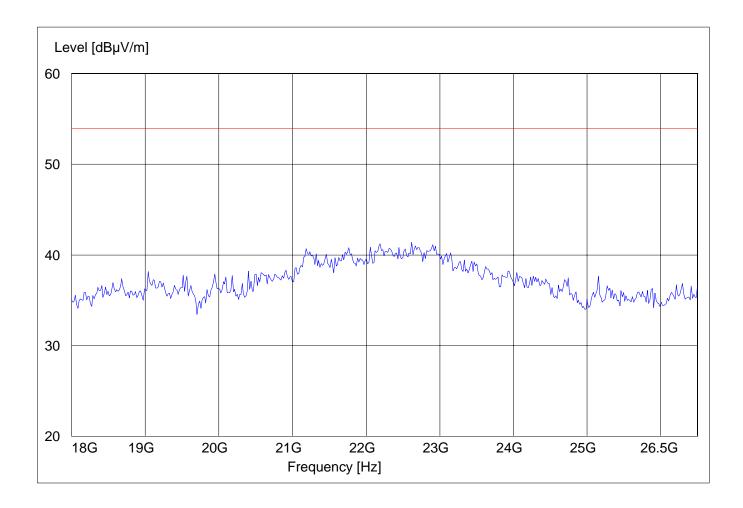
SWEEP TABLE: "BT Spuri hi 18-26.5G"

Short Description: Bluetooth Spurious 18-26.5GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

18 GHz 26.5 GHz MaxPeak Coupled 1 MHz #141 horn (dBi)





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#### CONDUCTED EMISSIONS

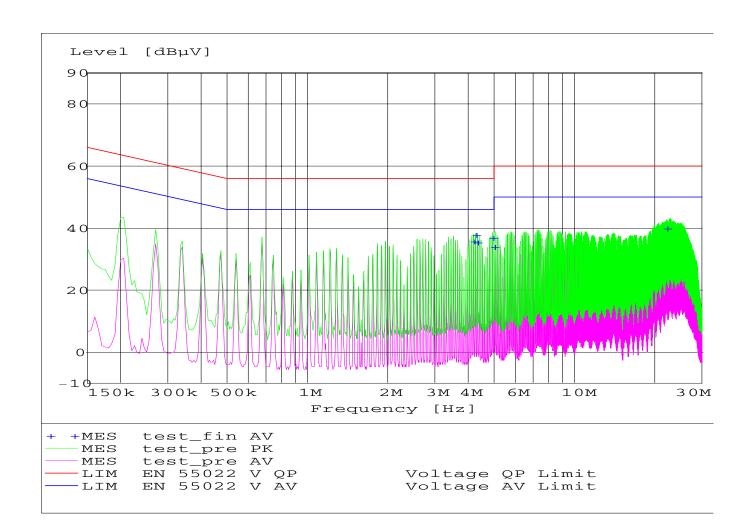
§ 15.107/207

## Technical specification: 15.107 / 15.207 (Revised as of August 20, 2002) Limit

Frequency of Emission (MHz)	Conducted Limit (dBµV)			
	Quasi-Peak Average			
0.15 - 0.5	66 to 56*	56 to 46*		
0.5 - 5	56	46		
5 – 30	60	50		
* Decreases with logarithm of the frequency				

**ANALYZER SETTINGS: RBW = 10KHz** 

VBW = 10KHz





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MEASUREMENT RESULT: "test_fin AV"						
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	đΒμV	đВ	đΒμV	đВ		
4.190000	35.80	0.0	46	10.2	N	GND
4.260000	37.90	0.0	46	8.1	N	GND
4.325000	35.40	0.0	46	10.6	N	GND
4.935000	36.90	0.0	46	9.1	N	GND
5.000000	34.00	0.0	46	12.0	N	GND
22.110000	39.90	0.0	50	10.1	N	GND



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#### RECEIVER SPURIOUS RADIATION

§ 15.209

#### Limits

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)	
0.009 - 0.490	2400/F(kHz)	300	
0.490 - 1.705	24000/F(kHz)	30	
1.705 - 30.0	30	30	
30 - 88	100	3	
88 - 216	150	3	
216 - 960	200	3	
above 960	500	3	

#### **NOTE**:

- 1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 26.5 GHz very short cable connections to the antenna was used to minimize the noise level.
- 2. All measurements are done in peak mode unless specified with the plots.



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#### RECEIVER SPURIOUS RADIATION

§ 15.209

**30MHz – 1GHz** 

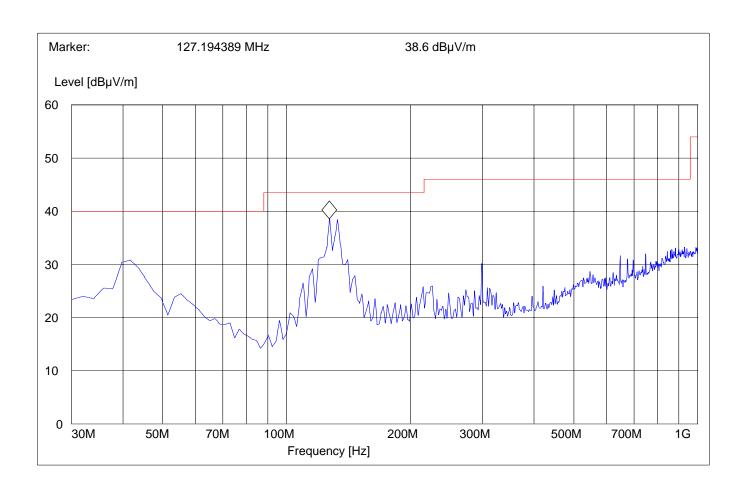
**Antenna: vertical (worst-case plot)** 

SWEEP TABLE: "BT Spuri hi 30-1G"
Short Description: Bluetooth 30MHz-1GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 3141-#1186





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## RECEIVER SPURIOUS RADIATION 1GHz – 3GHz

§ 15.209

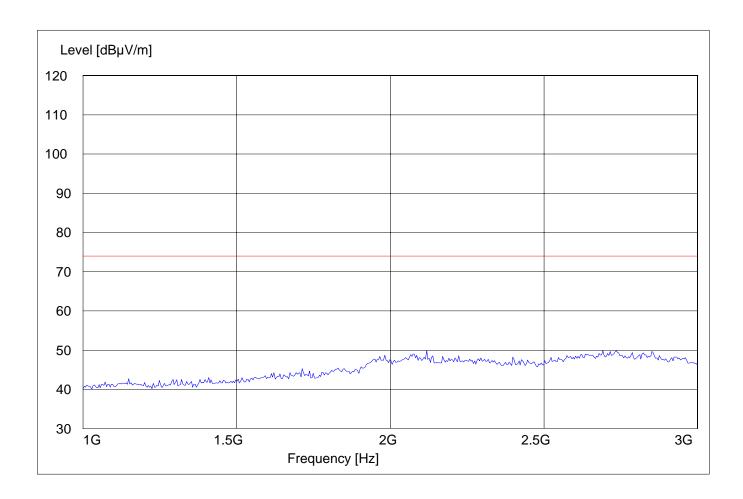
SWEEP TABLE: "BT Spuri hi 1-3G"

Short Description: Bluetooth Spurious 1-3GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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## RECEIVER SPURIOUS RADIATION 3GHz – 18GHz

§ 15.209

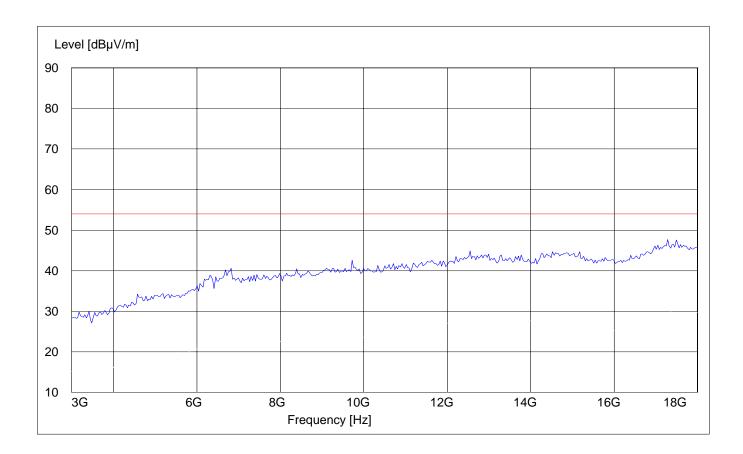
SWEEP TABLE: "BT Spuri hi 3-18G"

Short Description: Bluetooth Spurious 3-18 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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## RECEIVER SPURIOUS RADIATION 18GHz – 26.5GHz

§ 15.209

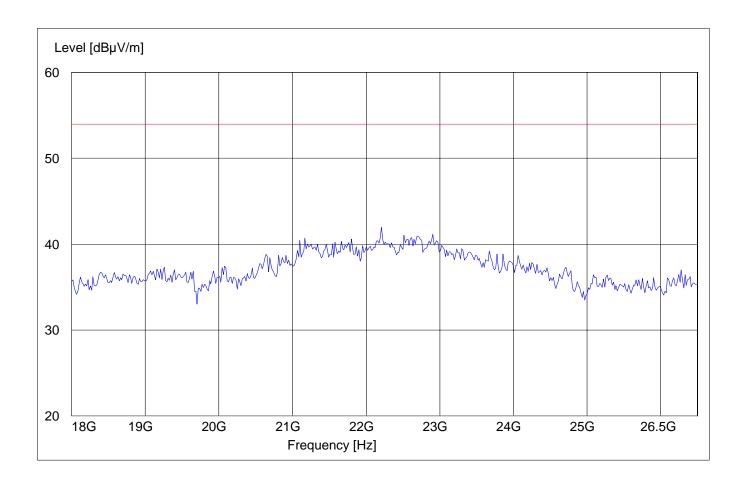
SWEEP TABLE: "BT Spuri hi 18-26.5G"

Short Description: Bluetooth Spurious 18-26.5GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

18.0 GHz 26.5 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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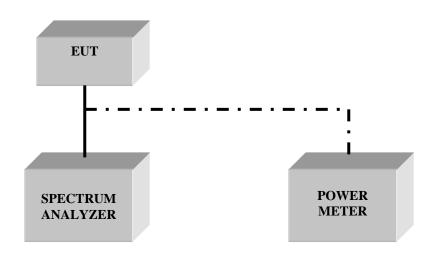
## TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No	Instrument/Ancillary	Туре	Manufacturer	Serial No.
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	826880/010
03	Biconilog Antenna	3141	EMCO	0005-1186
04	Horn Antenna (700M-18GHz)	SAS-200/571	AH Systems	325
05	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240
06	2-3GHz Band reject filter	BRM50701	Microtronics	6
07	Pre-Amplifier	TS-ANA	Rohde & Schwarz	
08	Pre-Amplifier	JS4-00102600	Miteq	00616



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# **BLOCK DIAGRAMS Conducted Testing**





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## **Radiated Testing**

#### ANECHOIC CHAMBER

