



卓時檢測  
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC/IC 0808057-02  
File reference No: 2008-10-16

Applicant: Group Sense Mobile-Tech Limited

Product: PDA with WiFi 802.11b/g

Model No: WF35

Trademark: Widely

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247, RSS-210 and FCC Part 15 Subpart B

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.247 regulations and RSS-210 for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung  
Manager

Dated: Oct. 16.2008

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD**

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.

Tel (755) 83448688

Fax (755) 83442996



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.:899988.

#### **IC- Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration No.: IC 5205A-01.

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Test Report Conclusion  
Content

<b>1.0</b>	<b>General Details</b> .....	3
1.1	Test Lab Details.....	3
1.2	Applicant Details.....	3
1.3	Description of EUT .....	3
1.4	Submitted Sample.....	3
1.5	Test Duration.....	4
1.6	Test Uncertainty.....	4
1.7	Test By.....	4
<b>2.0</b>	<b>List of Measurement Equipment</b> .....	4
<b>3.0</b>	<b>Technical Details</b> .....	7
3.1	Summary of Test Results.....	7
3.2	Test Standards.....	7
<b>4.0</b>	<b>EUT Modification</b> .....	7
<b>5.0</b>	<b>Power Line Conducted Emission Test</b> .....	8
5.1	Schematics of the Test.....	8
5.2	Test Method and Test Procedure.....	8
5.3	Configuration of the EUT.....	8
<b>5.4</b>	<b>EUT Operating Condition</b> .....	9
<b>5.5</b>	<b>Conducted Emission Limit</b> .....	9
<b>5.6</b>	<b>Test Result</b> .....	9
<b>6.0</b>	<b>Radiated Emission test</b> .....	16
6.1	Test Method and Test Procedure.....	16
6.2	Configuration of the EUT.....	16
6.3	EUT Operation Condition.....	16
6.4	Radiated Emission Limit.....	17
7.0	20dB Bandwidth Measurement.....	36
8.0	Maximum Peak Output Power.....	40
9.0	Power Spectral Density Measurement.....	42
10.0	Carrier Frequency Separation.....	46
11.0	Number of Hopping Channel.....	48
12.0	Time of Occupancy (Dwell Time).....	51
13.0	Out of Band Measurement.....	62
14.0	Antenna Requirement.....	65
15.0	Maximum Permissible Exposure.....	66
16.0	99% Occupied bandwidth.....	68
17.0	FCC and IC ID Label.....	72
18.0	Photo of Test Setup and EUT View.....	73

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD  
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,  
Shenzhen,CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-01  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Group Sense Mobile-Tech Limited  
Address: 6<sup>th</sup> Floor ,Blg.9,5 Science Park West Avenue, Hong Kong Science Park , Shatin, Hong Kong  
Telephone: 852-28328596  
Fax: 852-25912397

### 1.3 Description of EUT

Product: PDA with WiFi 802.11b/g  
Manufacturer: Group Sense Mobile-Tech Limited  
Brand Name: Widelfly  
Model Number: WF35  
Additional Model Name DT350  
Additional Trade Name Xplore  
Rating: Input: DC 5V; 1.5A  
Power Supply Model 1: SCP0501500P, Input: 100-240V~,50/60Hz, 0.3A, Output: DC5V, 1.5A  
Model 2:S010AU0500150, Input: 100-240V~, 0.35A, 50/60Hz; Output: DC5V,  
1.5A  
Type of Modulation FHSS  
Frequency range 2402-2480MHz  
Number of Channel 79  
Frequency Selection By software  
Antenna type chip dielectric antenna, the antenna gain is -3.0dBi

### 1.4 Submitted Sample: 2 Sample

### 1.5 Test Duration

2008-08-10 to 2008-10-15

### 1.6 Test Uncertainty

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Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

*Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2007-12-05	2008-12-04
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2007-12-05	2008-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2007-12-05	2008-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2007-12-05	2008-12-04
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2007-12-05	2008-12-04
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2008-04-26	2009-04-25
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2008-02-18	2009-02-17
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2008-02-18	2009-02-17
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2008-02-18	2009-02-17
System Controller	CT	SC100	-	2008-02-18	2009-02-17
Printer	EPSON	PHOTO EX3	CFNH234850	2008-02-18	2009-02-17
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2008-02-18	2009-02-17
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2008-02-18	2009-02-17
Computer	IBM	8434	1S8434KCE99BLX LO*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2008-02-18	2009-02-17

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Power meter	Anritsu	ML2487A	6K00003613	2008-02-18	2009-02-17
Power sensor	Anritsu	MA2491A	32263	2008-02-18	2009-02-17
Spectrum Analyzer	HAMEG	HM5012	-	2008-04-26	2009-04-25
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2008-02-18	2009-02-17
CDN	EM TEST	CDN M2/M3	-	2008-02-18	2009-02-17
Attenuation	EM TEST	ATT6/75	-	2008-02-18	2009-02-17
Resistance	EM TEST	R100	-	2008-02-18	2009-02-17
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2008-02-18	2009-02-17
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2008-02-18	2009-02-17
Power Amplifier	AR	150W1000	300999	2008-02-18	2009-02-17
Field probe	Holaday	HI-6005	105152	2008-02-18	2009-02-17
Bilog Antenna	Chase	CBL6111C	2576	2008-02-18	2009-02-17
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2008-02-18	2009-02-17
3m OATS	--	--	N/A	2008-02-18	2009-02-17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2008-08-18	2009-08-17
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2008-04-26	2009-04-25

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### 3.0 Technical Details

#### 3.1 Summary of test results

<b>The EUT has been tested according to the following specifications:</b>			
<b>Requirement</b>	<b>CFR 47 Section</b>	<b>Result</b>	<b>Notes</b>
<b>Antenna Requirement</b>	<b>15.203, 15.247(b)(4) and RSS-210</b>	<b>PASS</b>	<b>Complies</b>
<b>Maximum Peak Out Power</b>	<b>15.247 (b)(1), (4) and RSS-210</b>	<b>PASS</b>	<b>Complies</b>
<b>Carrier Frequency Separation</b>	<b>15.247(a)(1) And RSS-210</b>	<b>PASS</b>	<b>Complies</b>
<b>20dB Channel Bandwidth</b>	<b>15.247 (a)(1)</b>	<b>PASS</b>	<b>Complies</b>
<b>Number of Hopping Channels</b>	<b>15.247(a)(iii), 15.247(b)(1) and RSS-210</b>	<b>PASS</b>	<b>Complies</b>
<b>Time of Occupancy (Dwell Time)</b>	<b>15.247(a)(iii) and RSS-210</b>	<b>PASS</b>	<b>Complies</b>
<b>Spurious Emission, Band Edge, and Restricted bands</b>	<b>15.247(d),15.205(a), 15.209 (a),15.109 and RSS-210</b>	<b>PASS</b>	<b>Complies</b>
<b>Peak Power Spectral Density</b>	<b>15.247(e) and RSS-210</b>	<b>PASS</b>	<b>Complies</b>
<b>Conducted Emissions</b>	<b>15.207(a), 15.107 and RSS-210</b>	<b>PASS</b>	<b>Complies</b>
<b>RF Exposure</b>	<b>15.247(i), 1.1307(b)(1)</b>	<b>PASS</b>	<b>Complies</b>
<b>99% occupied bandwidth</b>	<b>RSS-210</b>	<b>PASS</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart & Subpart C, Paragraph 15.247,RSS-210 and Part15B**

#### 4.0 EUT Modification

**No modification by Shenzhen Timeway Technology Consulting Co.,Ltd**

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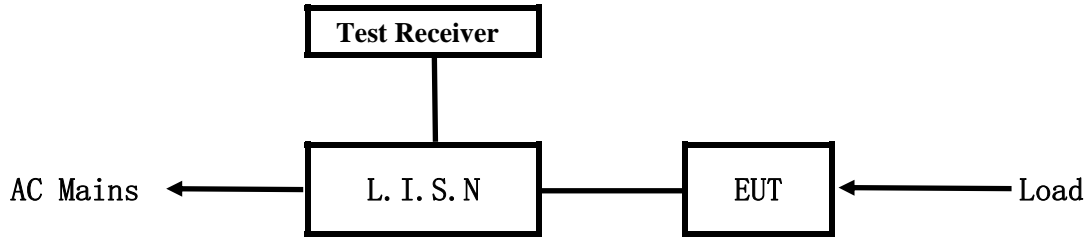
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

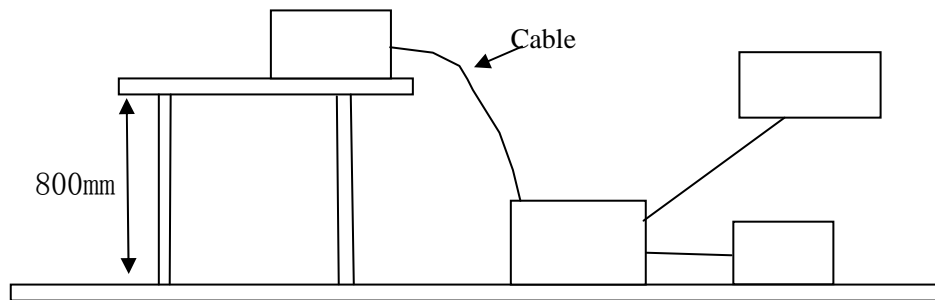


EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT





A. EUT

Device	Manufacturer	Model	FCC and IC ID
PDA with WiFi 802.11b/g	Group Sense Mobile-Tech Limited	WF35	VRI-B106 7039A-WFB106

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107 ,15.207and RSS-210

Frequency (MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

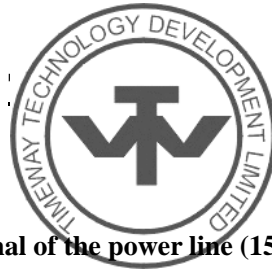
- Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: the worse cases was selected to conducted the test

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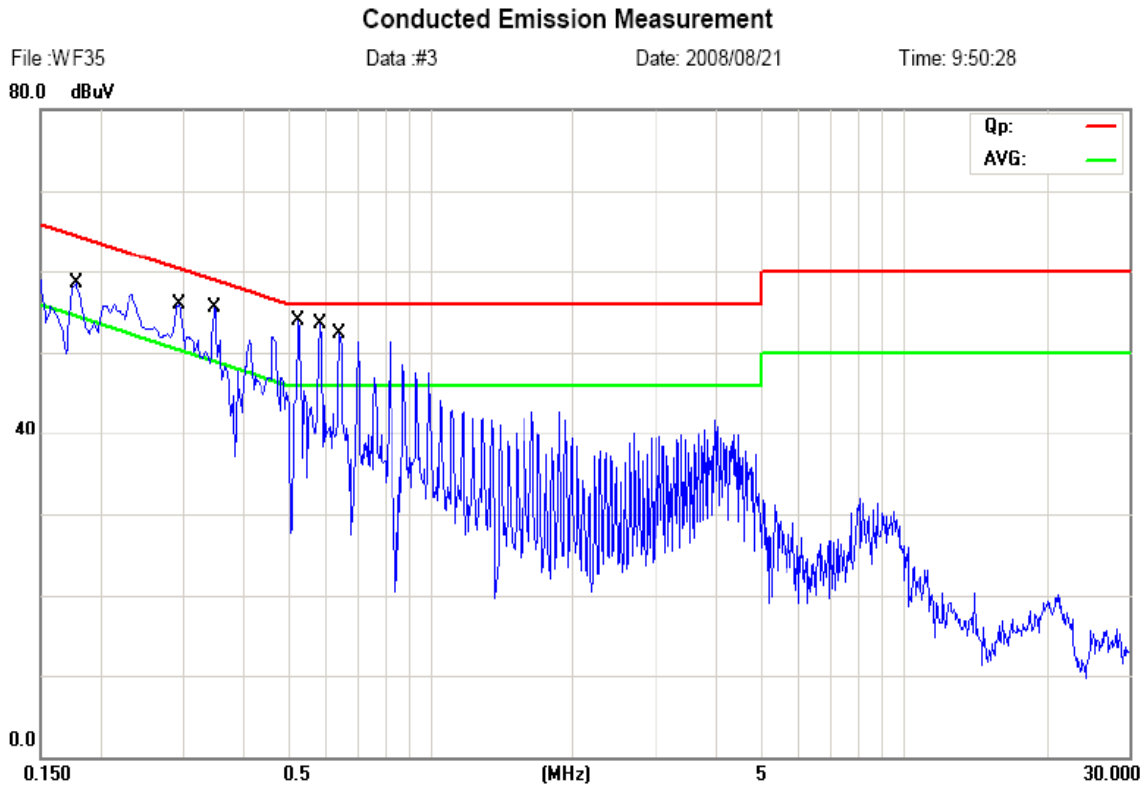


**A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Transmitting mode  
 Power supply model SCP0501500P

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Line		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1761	56.23	41.03	--	--	64.67	54.67
0.2934	54.55	31.25	--	--	60.43	50.43
0.3520	53.71	32.21	--	--	58.92	48.92
0.5277	52.40	32.50	--	--	56.00	46.00
0.5866	51.56	33.56	--	--	56.00	46.00
0.6454	49.12	30.82	--	--	56.00	46.00

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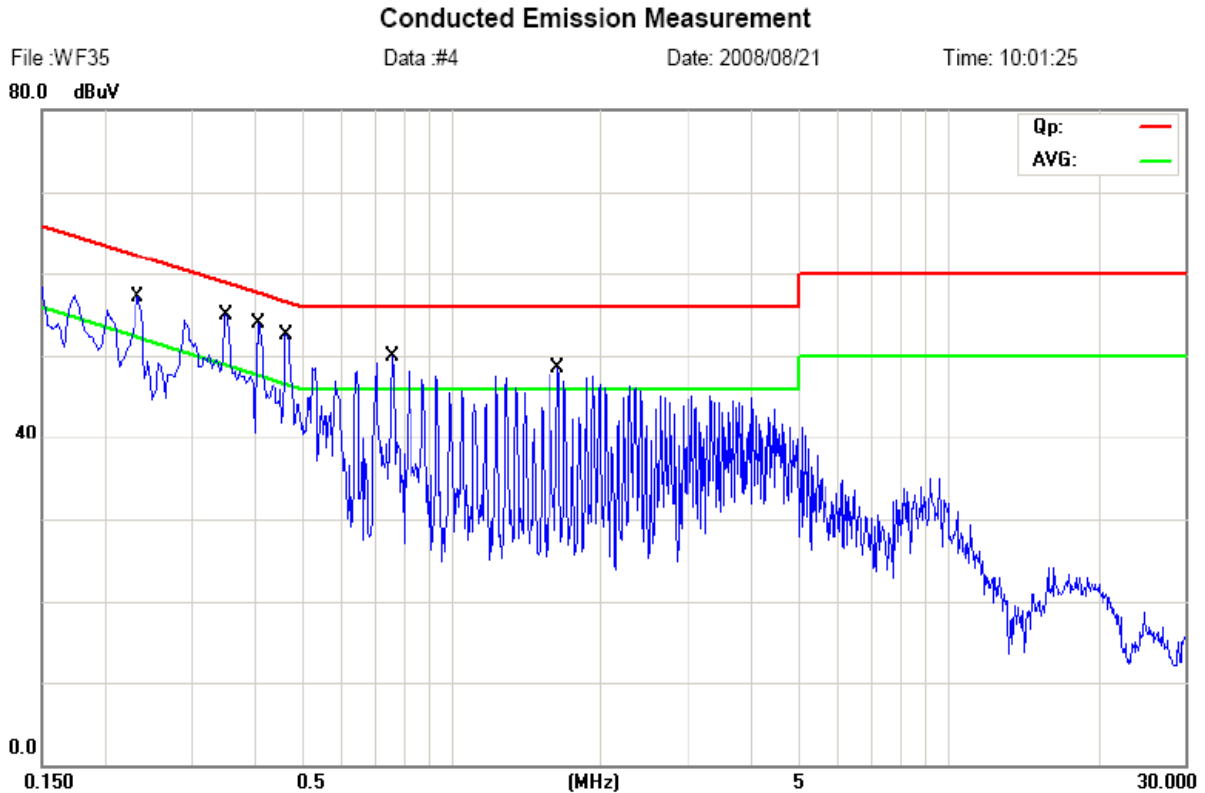


**B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Transmitting mode  
 Power supply model SCP0501500P

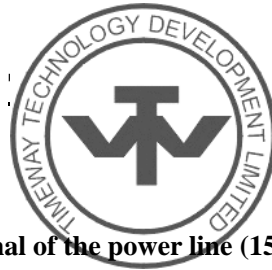
**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.2347	--	--	55.49	38.59	62.28	52.28
0.3522	--	--	53.51	44.91	58.91	48.91
0.4105	--	--	51.98	40.38	57.64	47.64
0.4693	--	--	50.74	44.34	56.53	46.53
0.7628	--	--	47.25	34.55	56.00	46.00
1.6434	--	--	45.86	42.36	56.00	46.00

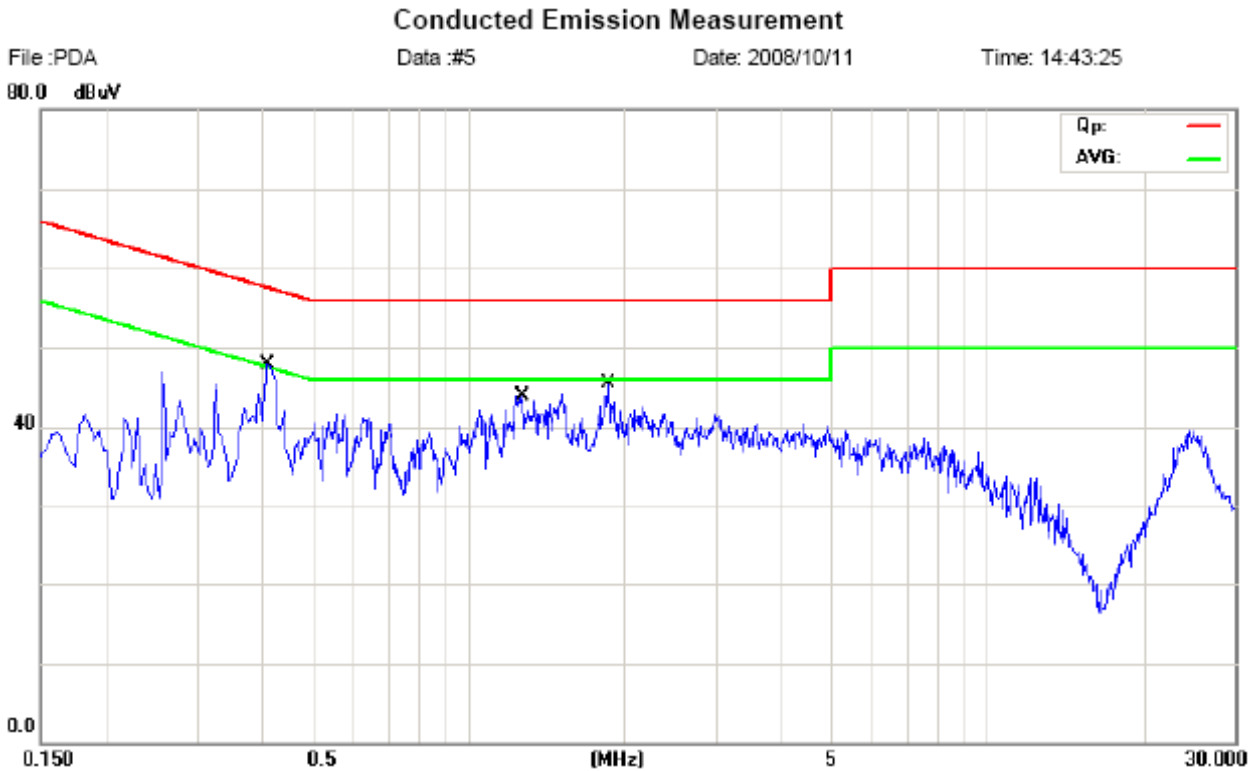
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**C Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Transmitting mode  
 Power supply model S010AU0500150  
**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Line		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.4132	43.68	32.58	--	--	57.58	47.58
1.2618	37.50	29.00	--	--	56.00	46.00
1.8640	36.85	27.75	--	--	56.00	46.00

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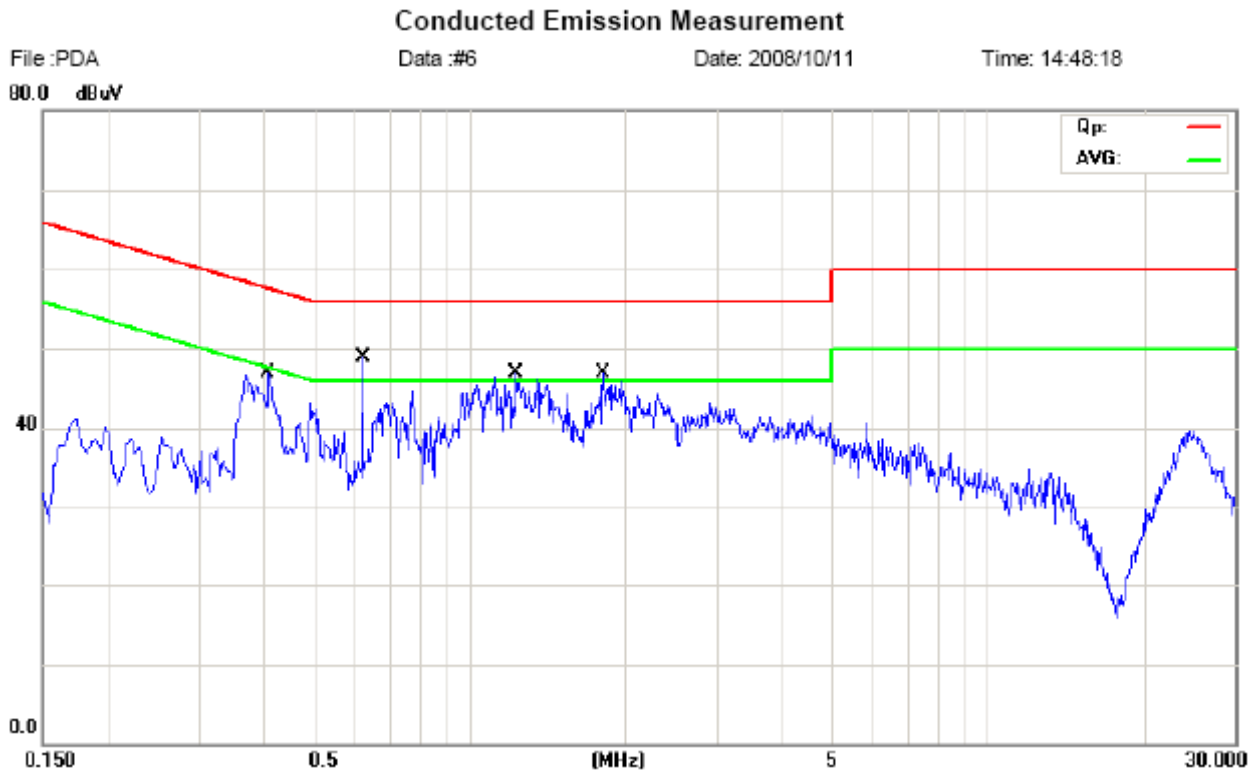


**D Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Transmitting mode  
 Power supply model S010AU0500150

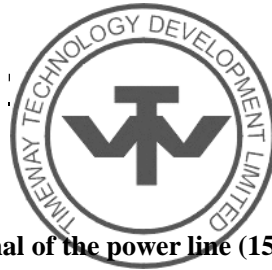
**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.4108	--	--	39.98	28.48	57.63	47.63
0.6233	--	--	30.60	19.30	56.00	46.00
1.2353	--	--	39.79	29.49	56.00	46.00
1.8176	--	--	38.33	27.73	56.00	46.00

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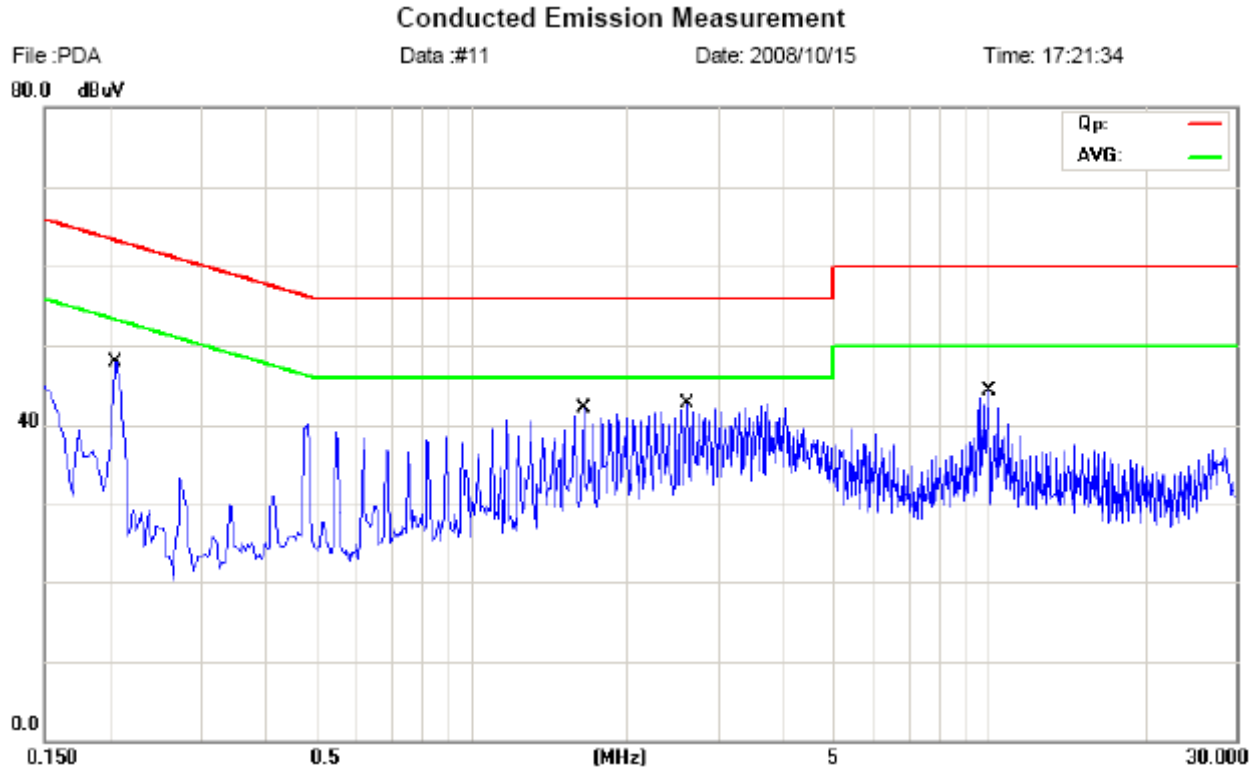


**E Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Connected to PC

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Line		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
.02054	42.56	32.46	--	--	63.39	53.39
2.6161	39.25	37.25	--	--	56.00	46.00
10.0520	34.70	26.00	--	--	56.00	46.00

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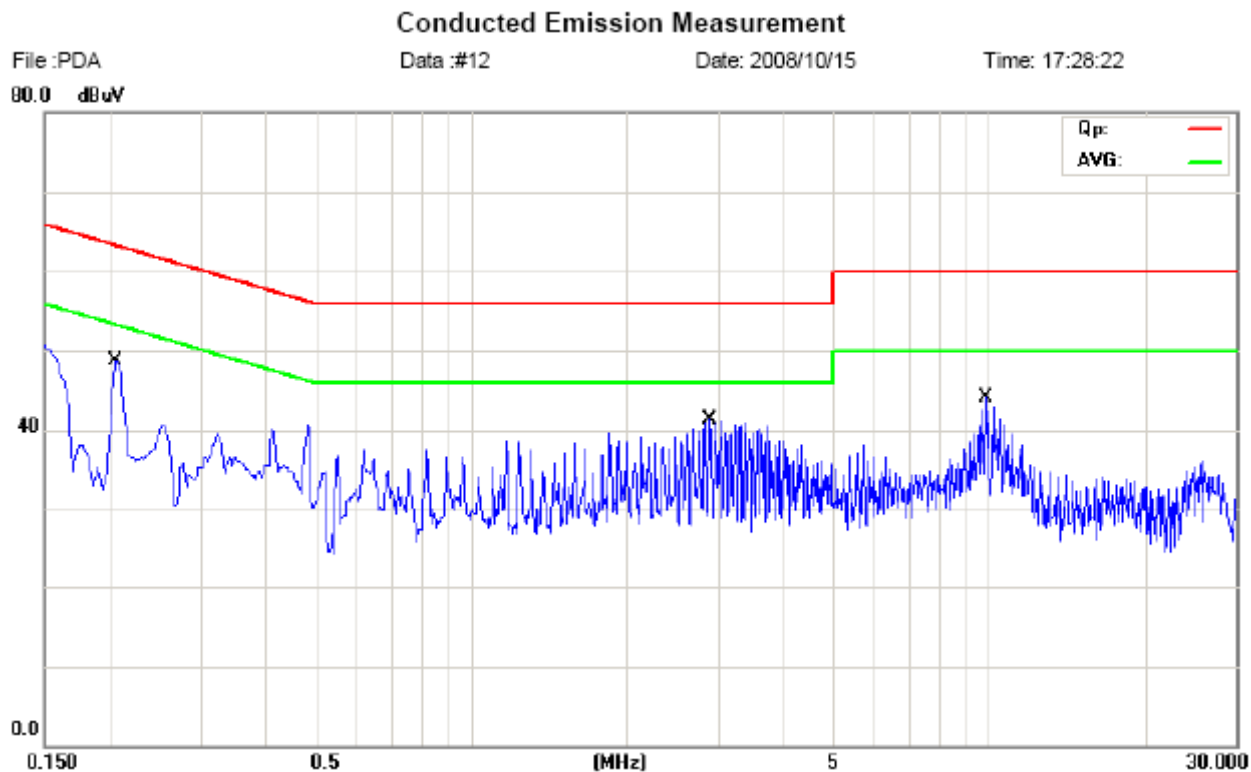


**F Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Connected to PC

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.2070	--	--	45.06	43.26	63.32	53.32
2.9027	--	--	40.76	31.76	56.00	46.00
9.8950	--	--	30.54	22.04	56.00	46.00

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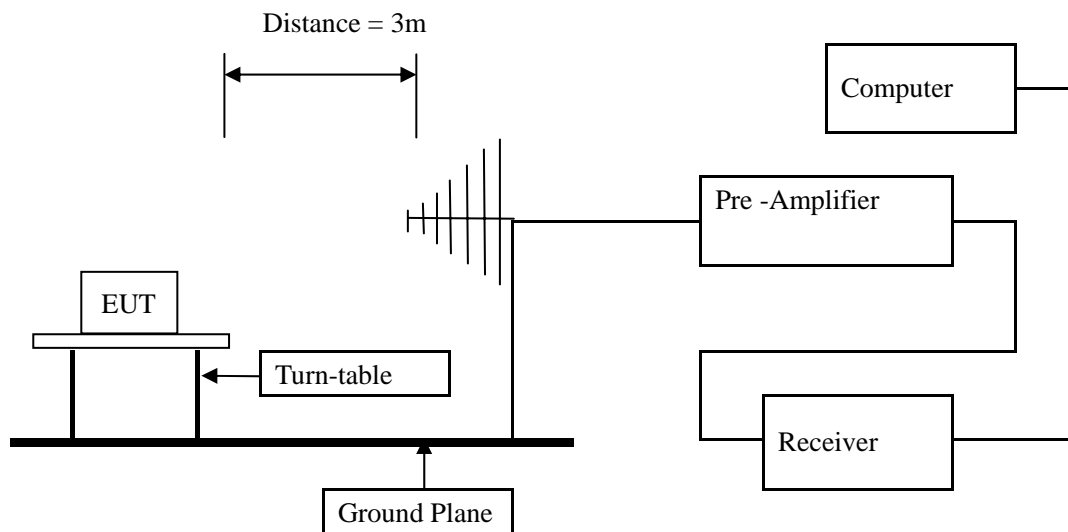


## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup



### 6.2 Configuration of The EUT

Same as section 5.3 of this report

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**Frequencies in restricted band are complied to limit on Paragraph 15.109, 15.209 and RSS-210**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage ( $\mu$ V)
  2. In the Above Table, the higher limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT



**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Transmitting mode

Power Supply SCP0501500P

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
54.25	32.71	V	40.00
224.000	26.04	V	46.00
175.500	25.08	H	43.50
221.575	26.36	H	46.00

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**Test Figure: Transmitting mode**

**H**

**Radiated Emission Measurement**

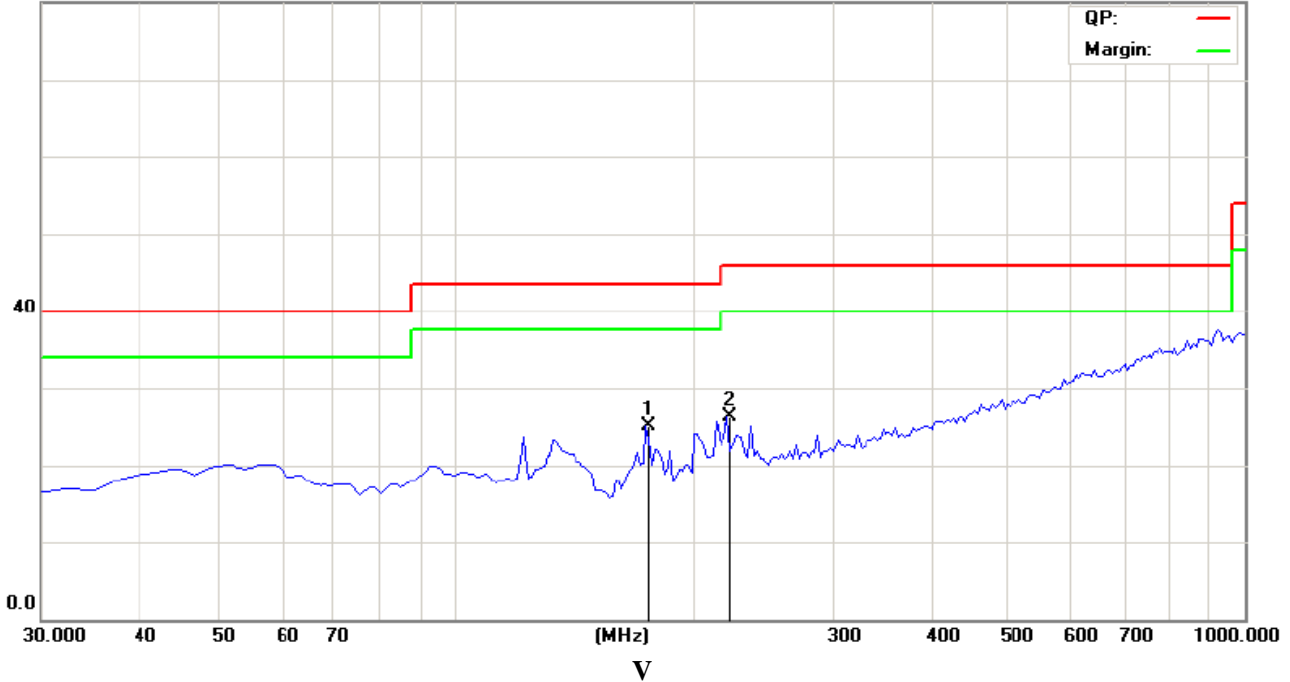
File :WF35

Data :#10

Date: 2008-8-14

Time: 17:10:54

80.0 dBuV/m



**Radiated Emission Measurement**

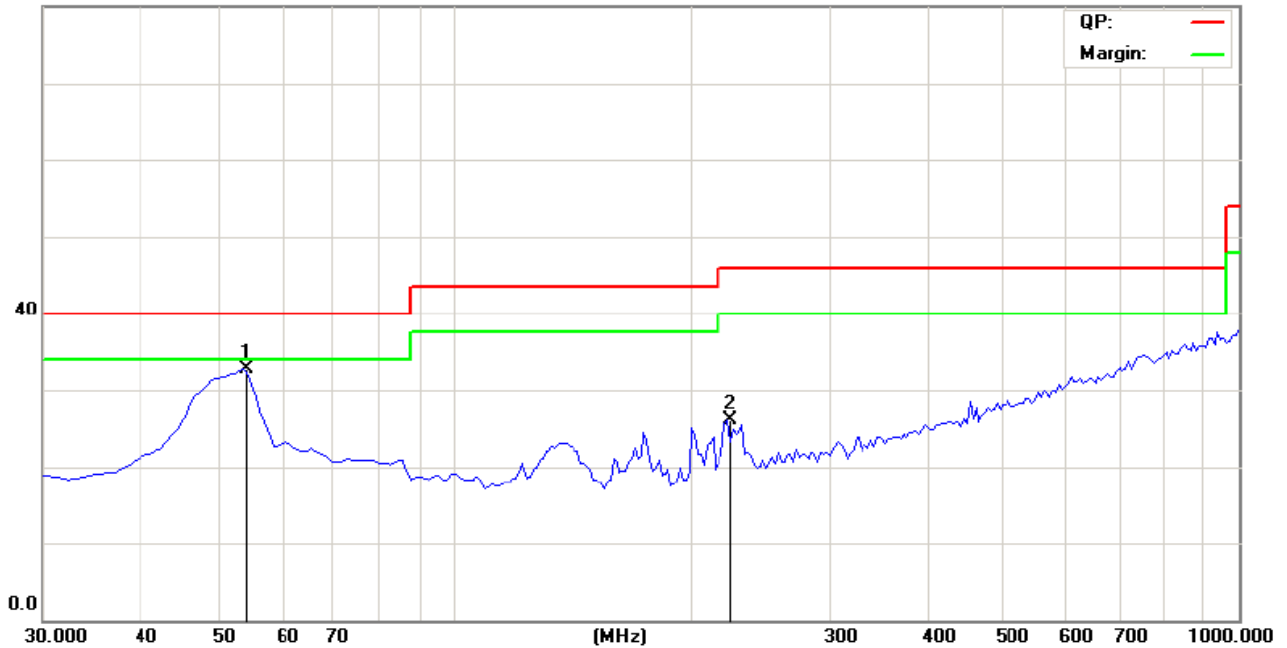
File :WF35

Data :#9

Date: 2008-8-14

Time: 17:09:29

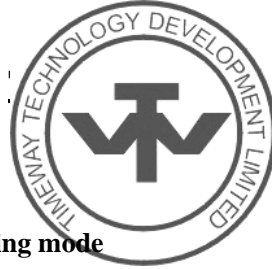
80.0 dBuV/m



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**EUT set Condition:**      **Receiving mode**  
Power Supply                SCP0501500P  
**Results:**                    **Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
175.500	24.34	H	43.50
221.575	25.37	H	43.50
54.25	31.47	V	40.00
175.500	25.44	V	43.50

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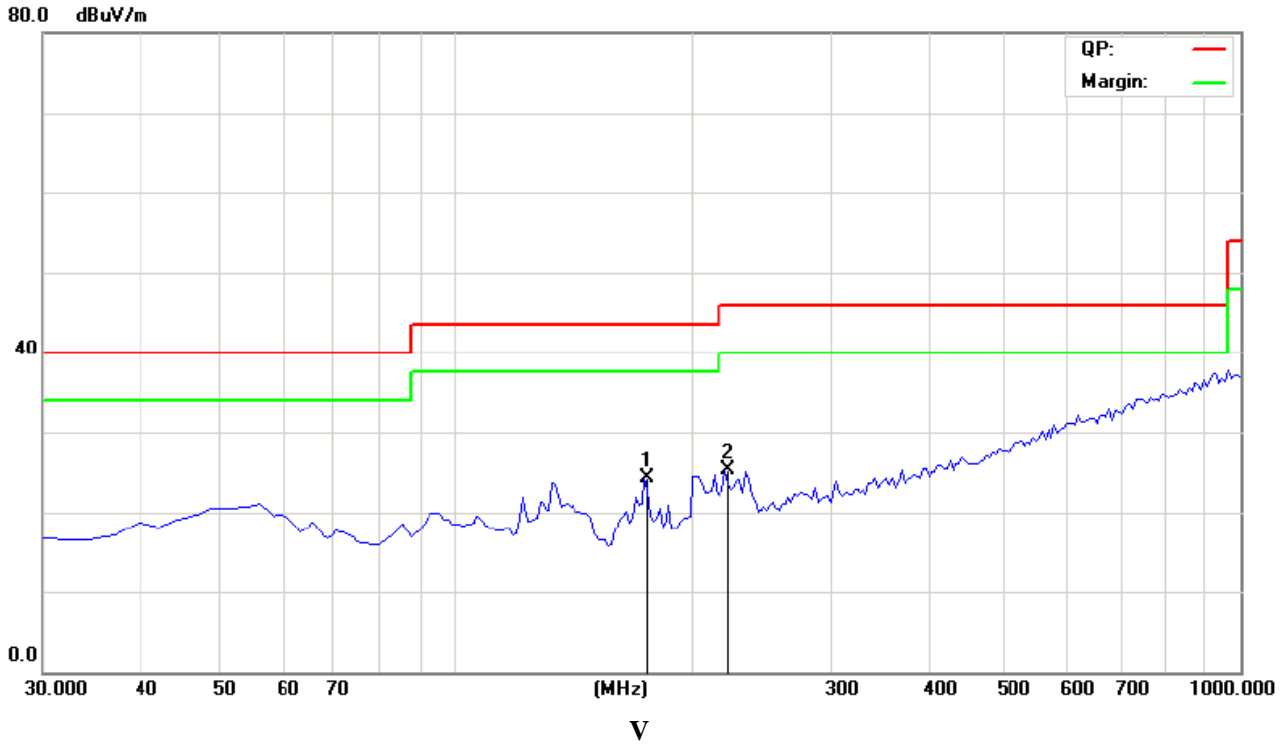


Test Figure: Receiving mode

H

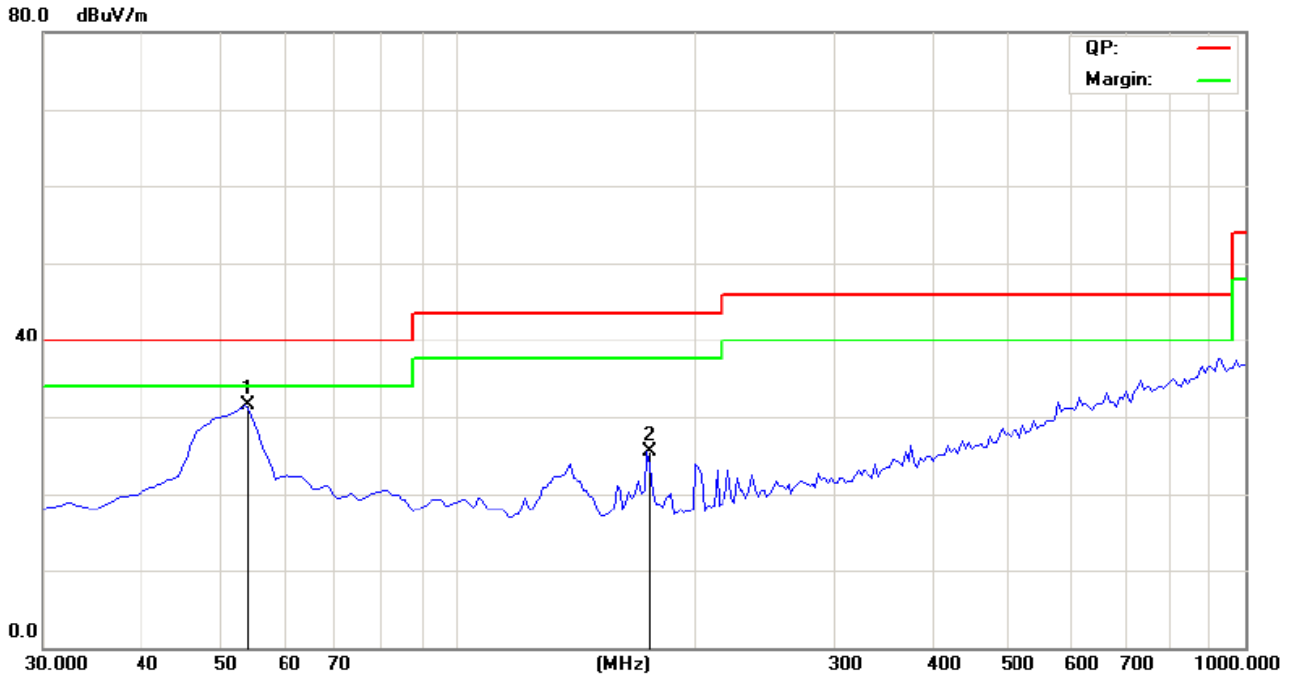
### Radiated Emission Measurement

File :WF35                      Data :#11                      Date: 2008-8-14                      Time: 17:12:30



### Radiated Emission Measurement

File :WF35                      Data :#12                      Date: 2008-8-14                      Time: 17:13:25



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**EUT set Condition:**      **Receiving mode**  
Power Supply                SA010AU0500150  
**Results:**                    **Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
56.675	20.84	H	40.00
100.325	21.20	H	43.50
42.125	30.76	V	40.00
63.950	27.42	V	40.00
80.925	28.49	V	40.00
185.200	25.03	V	43.50

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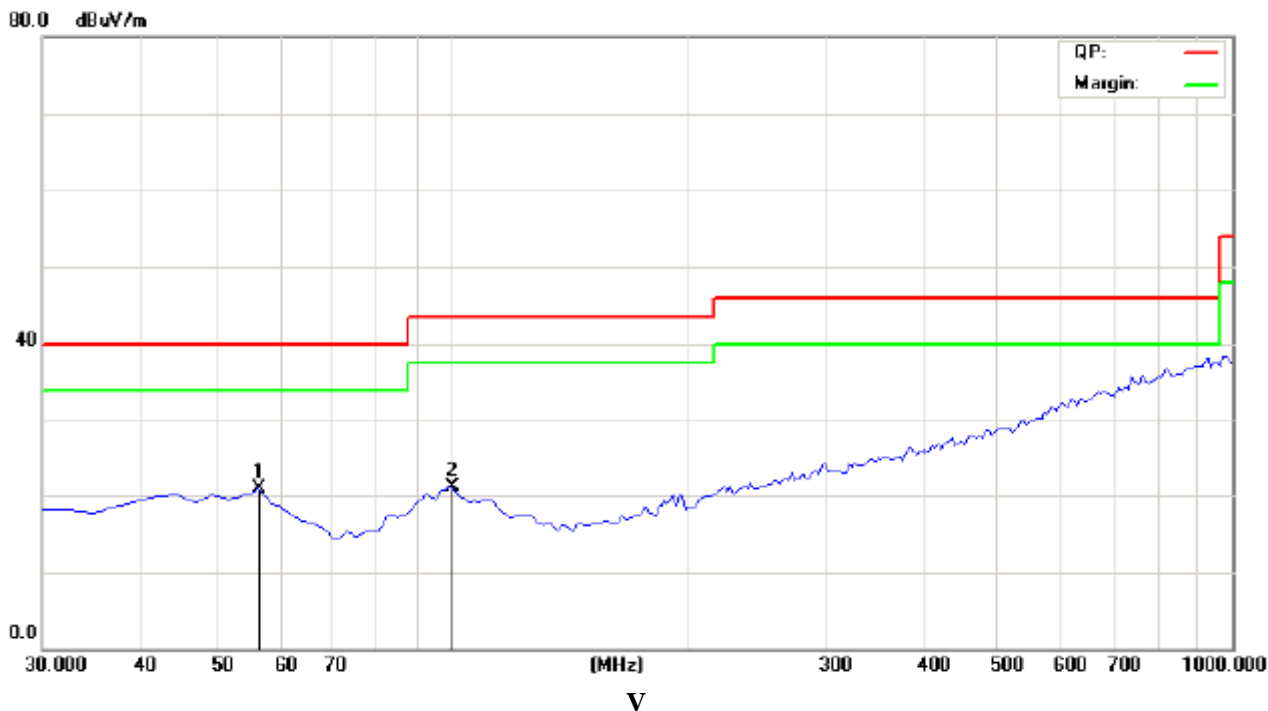


Test Figure: Receiving mode

H

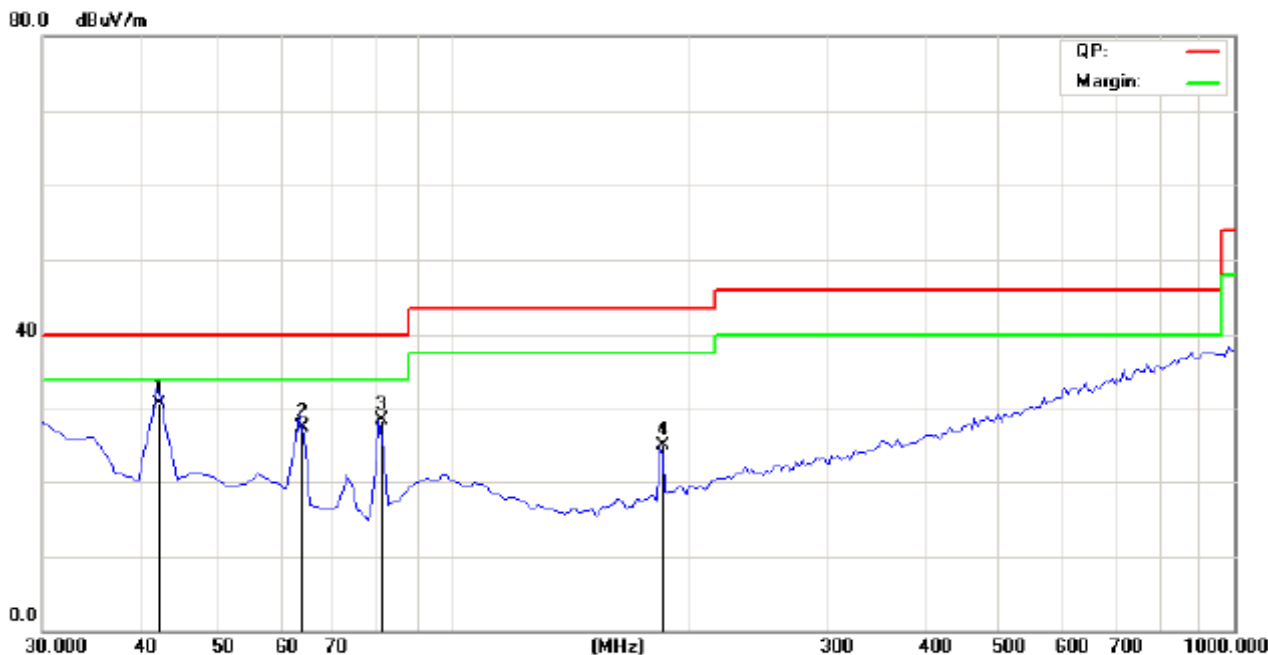
### Radiated Emission Measurement

File :WF35      Data :#13      Date: 2008/10/14      Time: 12:07:26



### Radiated Emission Measurement

File :WF35      Data :#12      Date: 2008/10/14      Time: 12:01:39



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**EUT set Condition:** Connected to PC

**Results:** Pass

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
84.076	34.32	H	40.00
664.685	37.94	H	46.00
359.800	36.98	H	46.00
500.450	33.45	H	46.00
798.725	38.41	H	46.00
81.393	32.91	V	40.00
665.583	36.99	V	46.00
357.375	33.58	V	46.00
500.450	33.66	V	46.00
849.650	40.07	V	46.00

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Test Figure: Connected to PC

H

### Radiated Emission Measurement

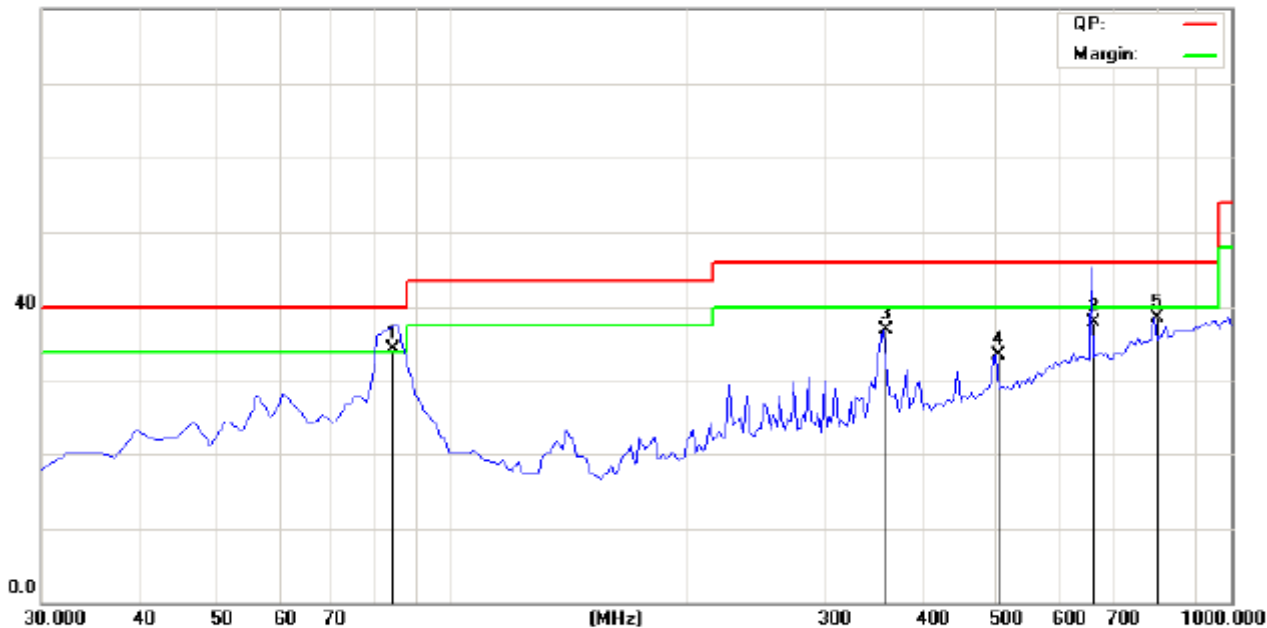
File :WF35

Data :#17

Date: 2008/10/15

Time: 11:41:58

80.0 dBuV/m



V

### Radiated Emission Measurement

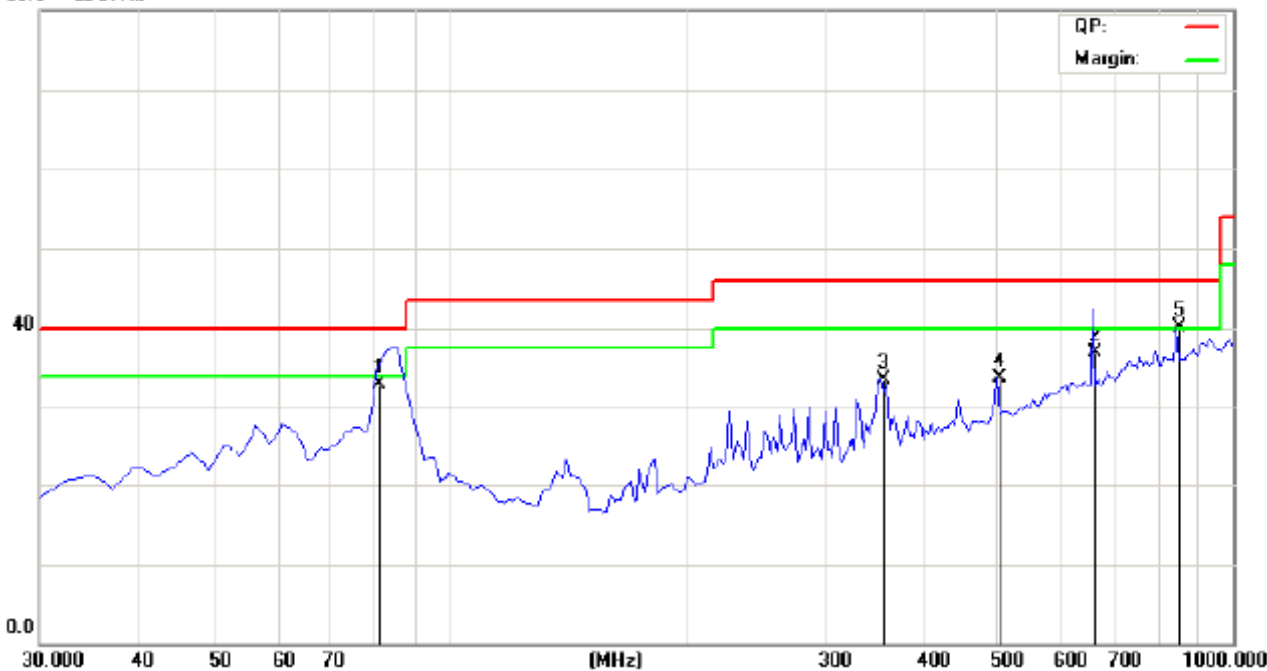
File :WF35

Data :#16

Date: 2008/10/15

Time: 11:23:54

80.0 dBuV/m



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**Operation Mode: Transmitting under Low Channel (2402MHz)**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2402	87.6 (PK) /76.6 (AV)	V	Fundamental Frequency
2402	90.8 (PK) /81.3 (AV)	H	
4804	--	H/V	74(Peak)/ 54(AV)
7206	--	H/V	74(Peak)/ 54(AV)
9608	--	H/V	74(Peak)/ 54(AV)
12010	--	H/V	74(Peak)/ 54(AV)
14412	--	H/V	74(Peak)/ 54(AV)
16814	--	H/V	74(Peak)/ 54(AV)
19216	--	H/V	74(Peak)/ 54(AV)
21618	--	H/V	74(Peak)/ 54(AV)
24020	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured

**Operation Mode: Transmitting g under Middle Channel (2441MHz)**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2441	85.3 (PK) /77.5 (AV)	H	Fundamental Frequency
2441	82.5 (PK) /73.6 (AV)	V	
4882.	--	H	74(Peak)/ 54(AV)
7323	--	H/V	74(Peak)/ 54(AV)
9764	--	H/V	74(Peak)/ 54(AV)
12205	--	H/V	74(Peak)/ 54(AV)
14646	--	H/V	74(Peak)/ 54(AV)
17087	--	H/V	74(Peak)/ 54(AV)
19528	--	H/V	74(Peak)/ 54(AV)
21969	--	H/V	74(Peak)/ 54(AV)
24410	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured

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**Operation Mode: Transmitting under High Channel**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2480	92.6 (PK) /82.8 (AV)	H	Fundamental Frequency
2480	88.9 (PK) /77.9 (AV)	V	
4960	--	H/V	74(Peak)/ 54(AV)
7440	--	H/V	74(Peak)/ 54(AV)
9920	--	H/V	74(Peak)/ 54(AV)
12400	--	H/V	74(Peak)/ 54(AV)
14880	--	H/V	74(Peak)/ 54(AV)
17360	--	H/V	74(Peak)/ 54(AV)
19840	--	H/V	74(Peak)/ 54(AV)
22320	--	H/V	74(Peak)/ 54(AV)
24800	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

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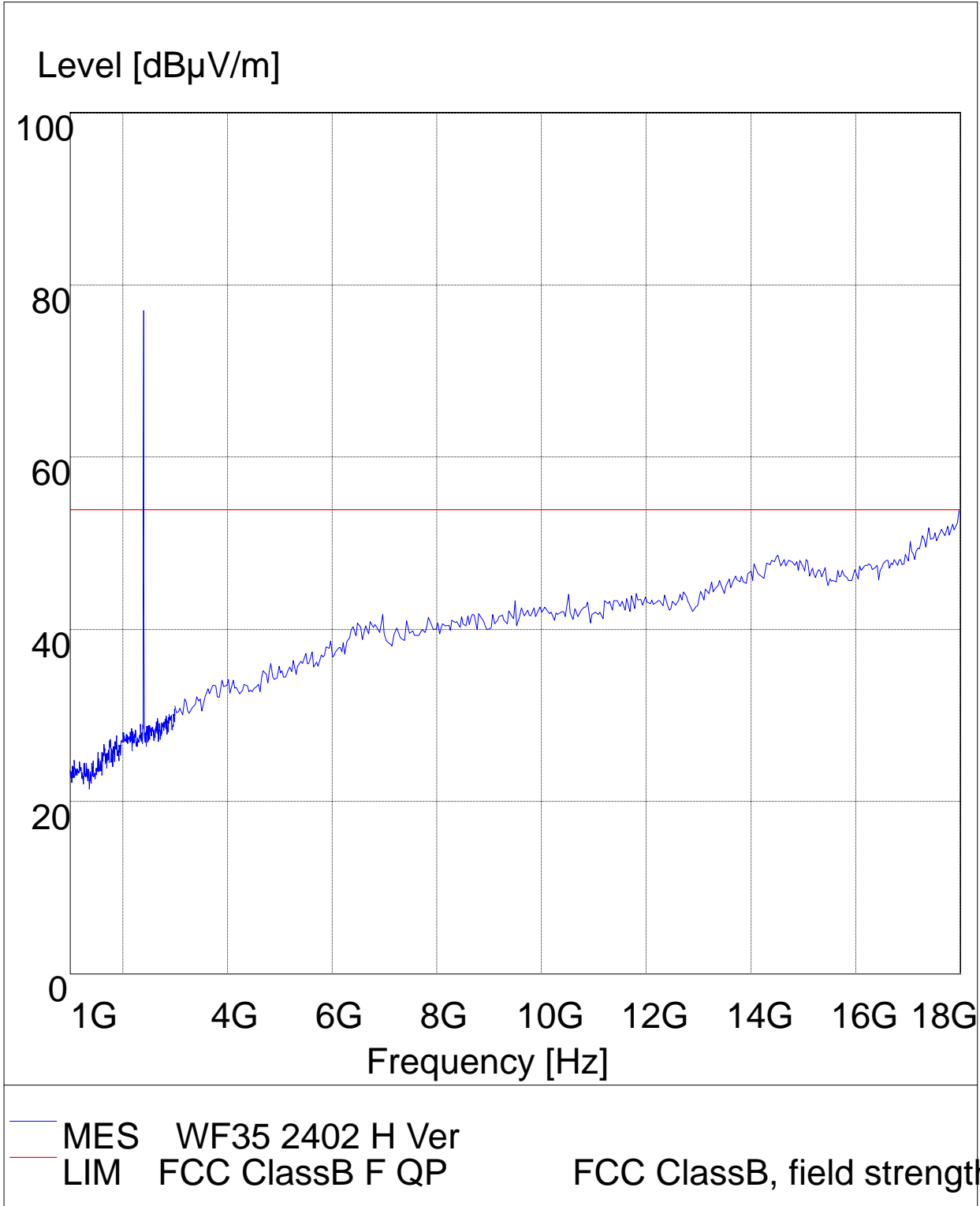
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Please refer to the following test plots for details:

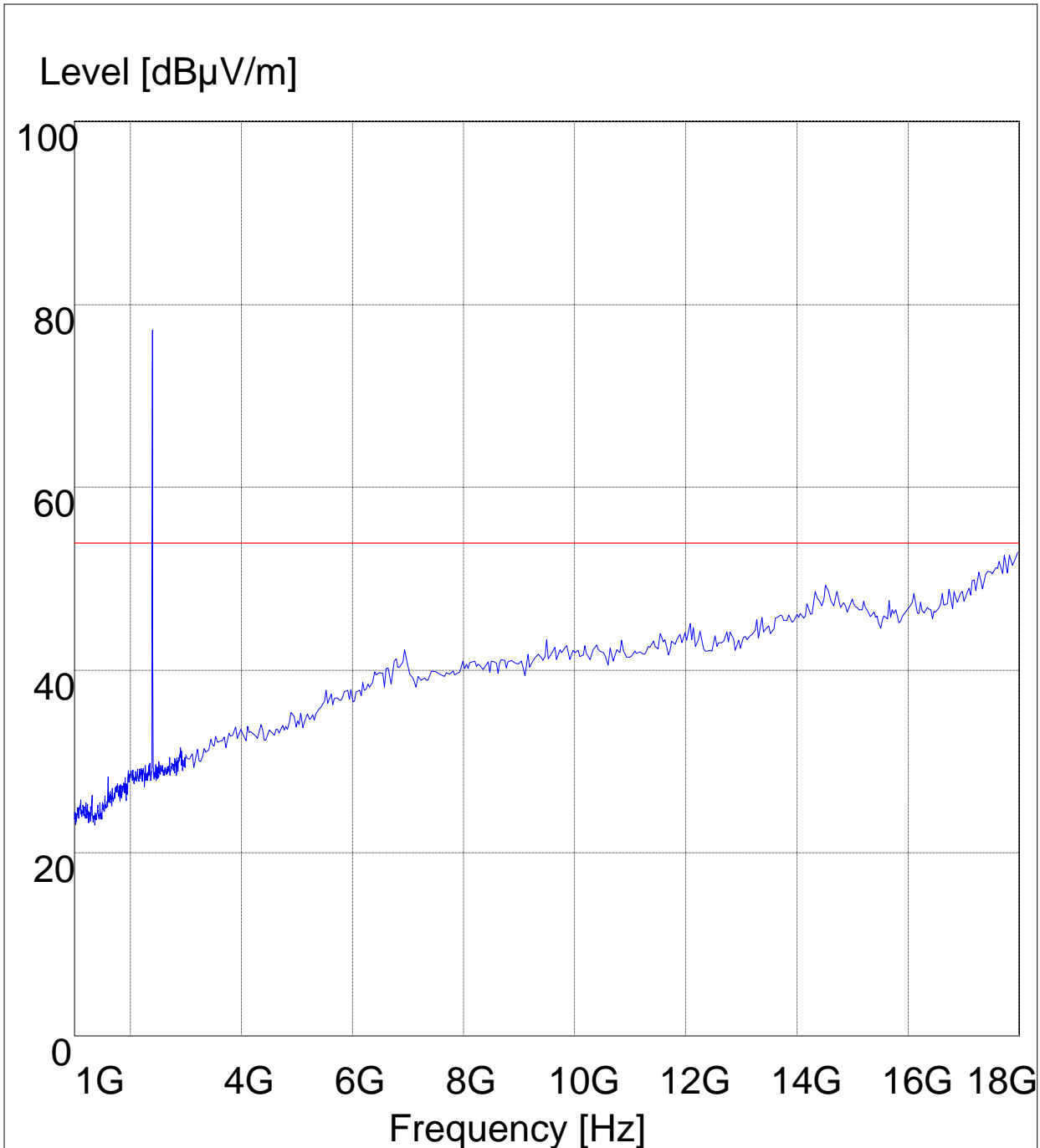
**Low Channel: Vertical**



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**Low Channel : Horizontal**

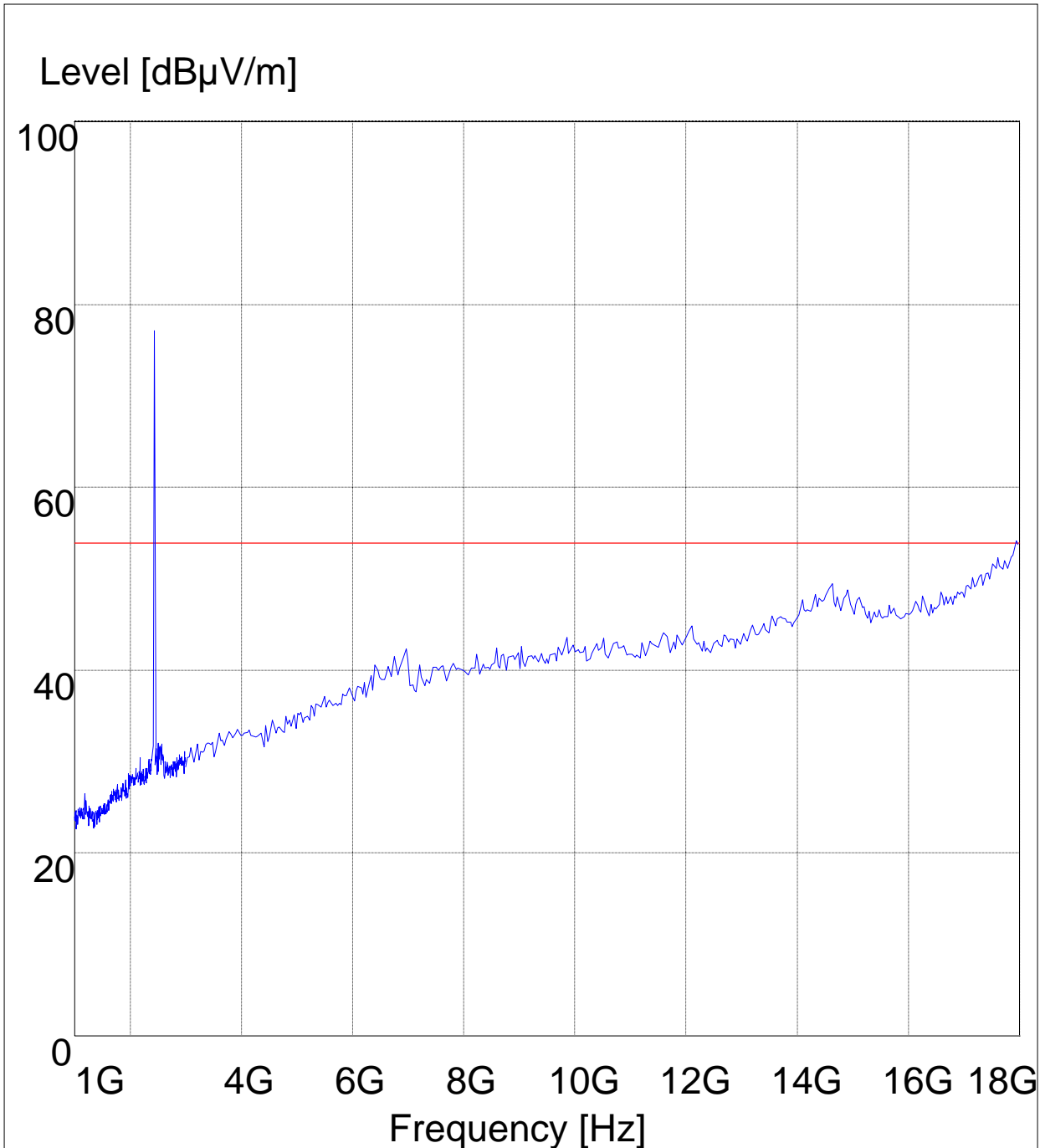


— MES WF35 2402 H Hor  
— LIM FCC ClassB F QP                      FCC ClassB, field strength

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**Middle Channel : Horizontal**

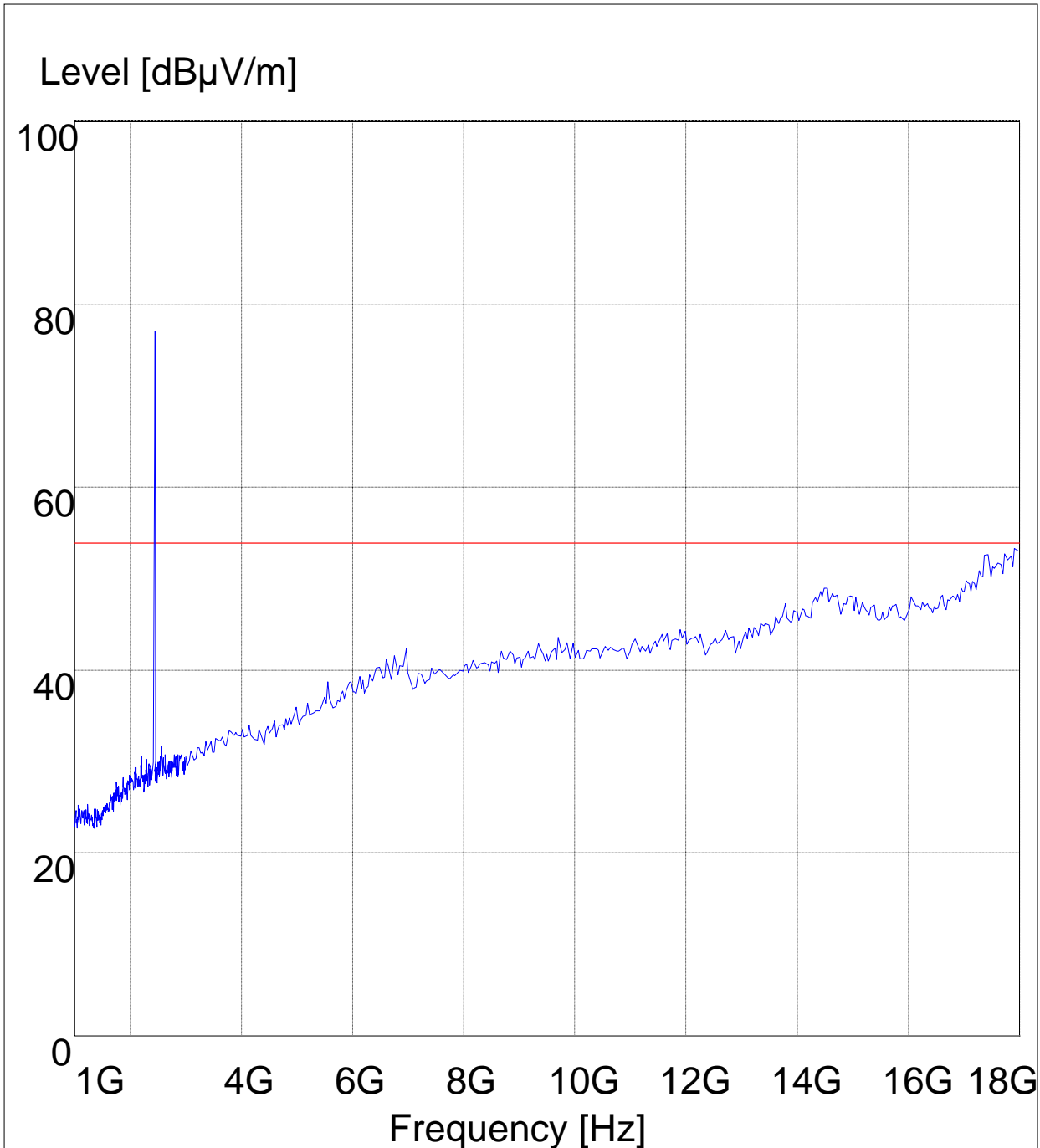


— MES WF35 2441 H Hor  
— LIM FCC ClassB F QP                      FCC ClassB, field strength

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**Middle Channel :: Vertical**

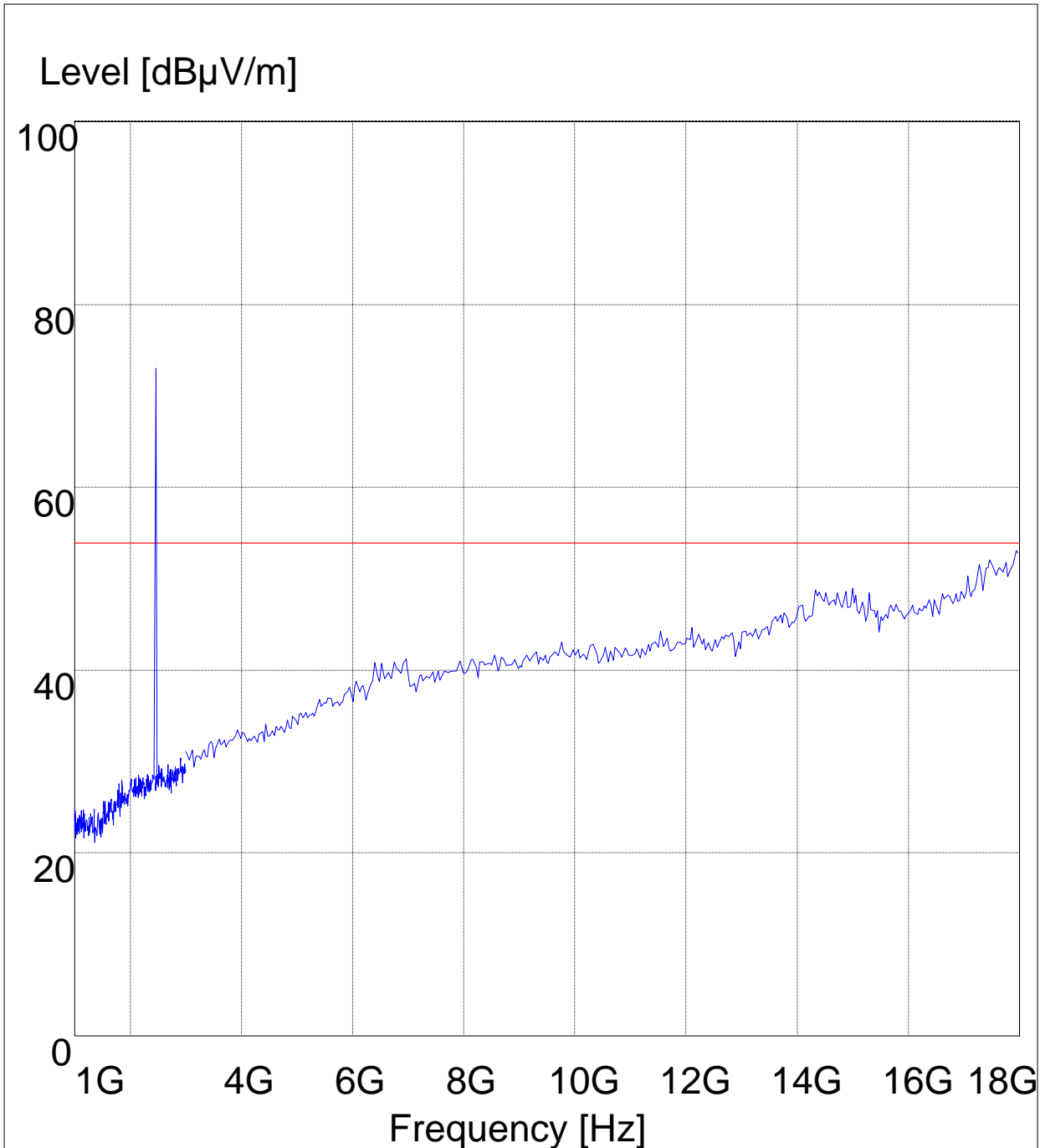


— MES WF35 2441 H Ver  
— LIM FCC ClassB F QP                      FCC ClassB, field strength

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**High Channel : Horizontal**



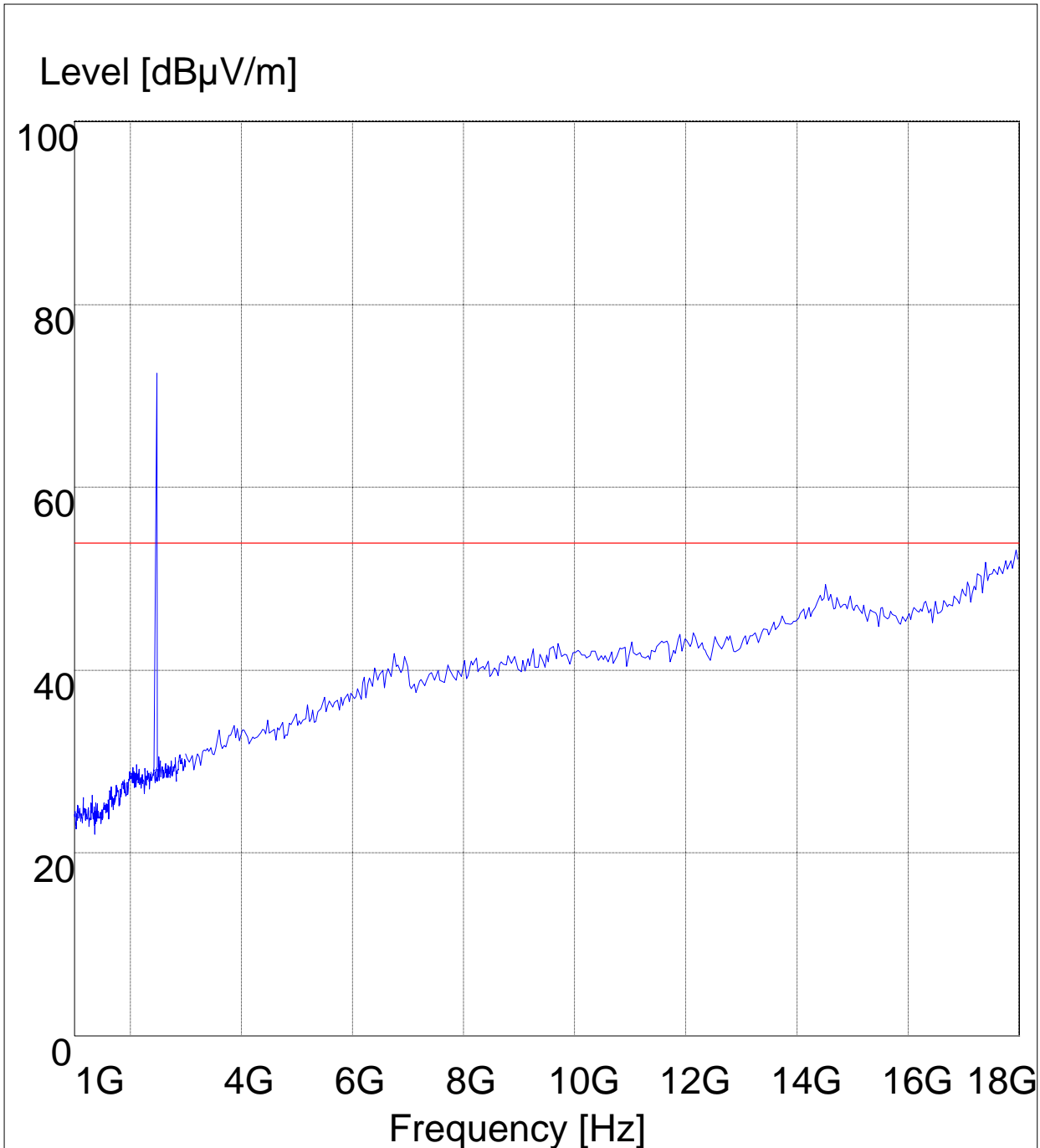
— MES WF35 2480 H Hor  
— LIM FCC ClassB F QP                      FCC ClassB, field strength

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**High Channel : Vertical**

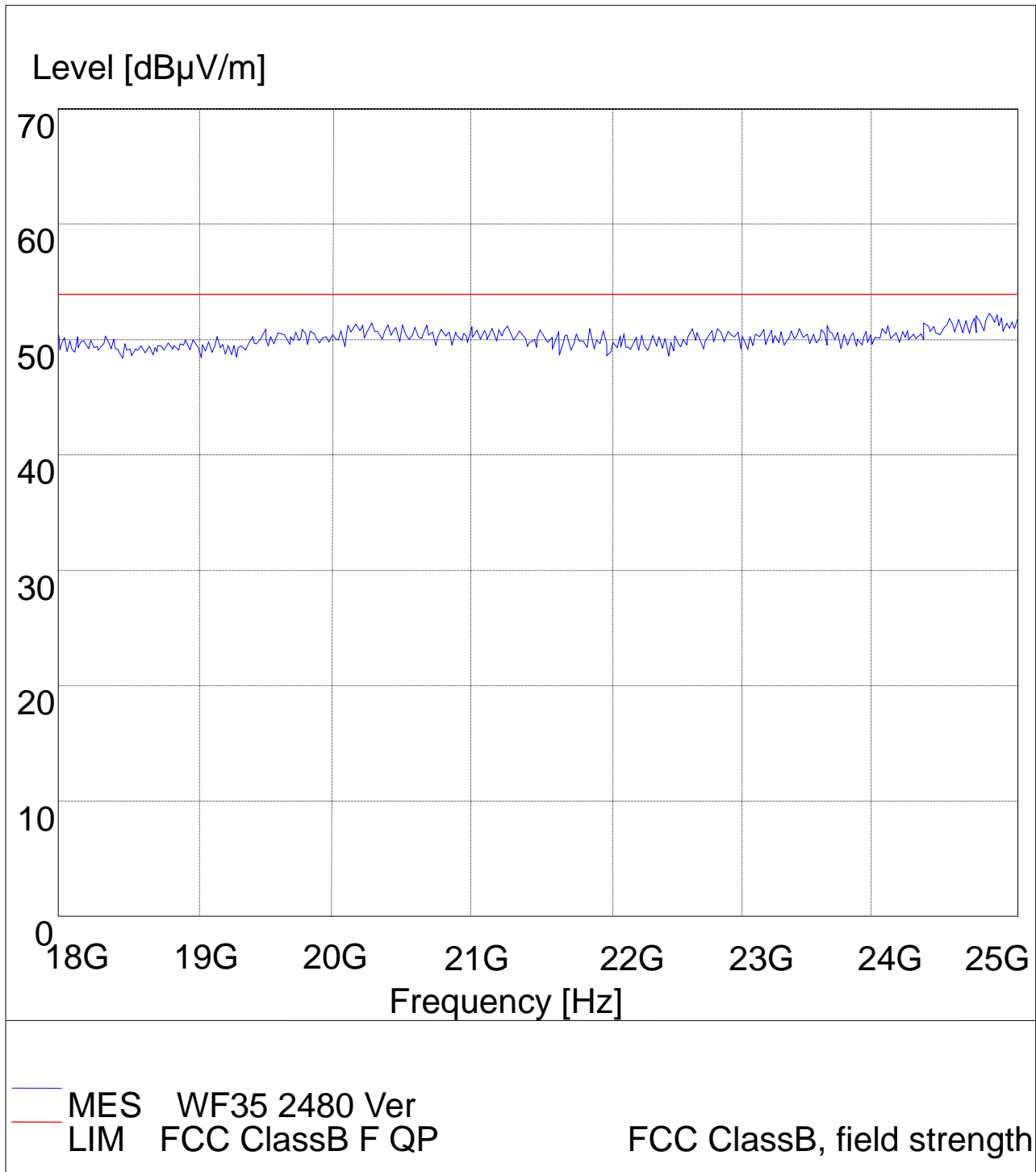


— MES WF35 2480 H Ver  
— LIM FCC ClassB F QP                      FCC ClassB, field strength

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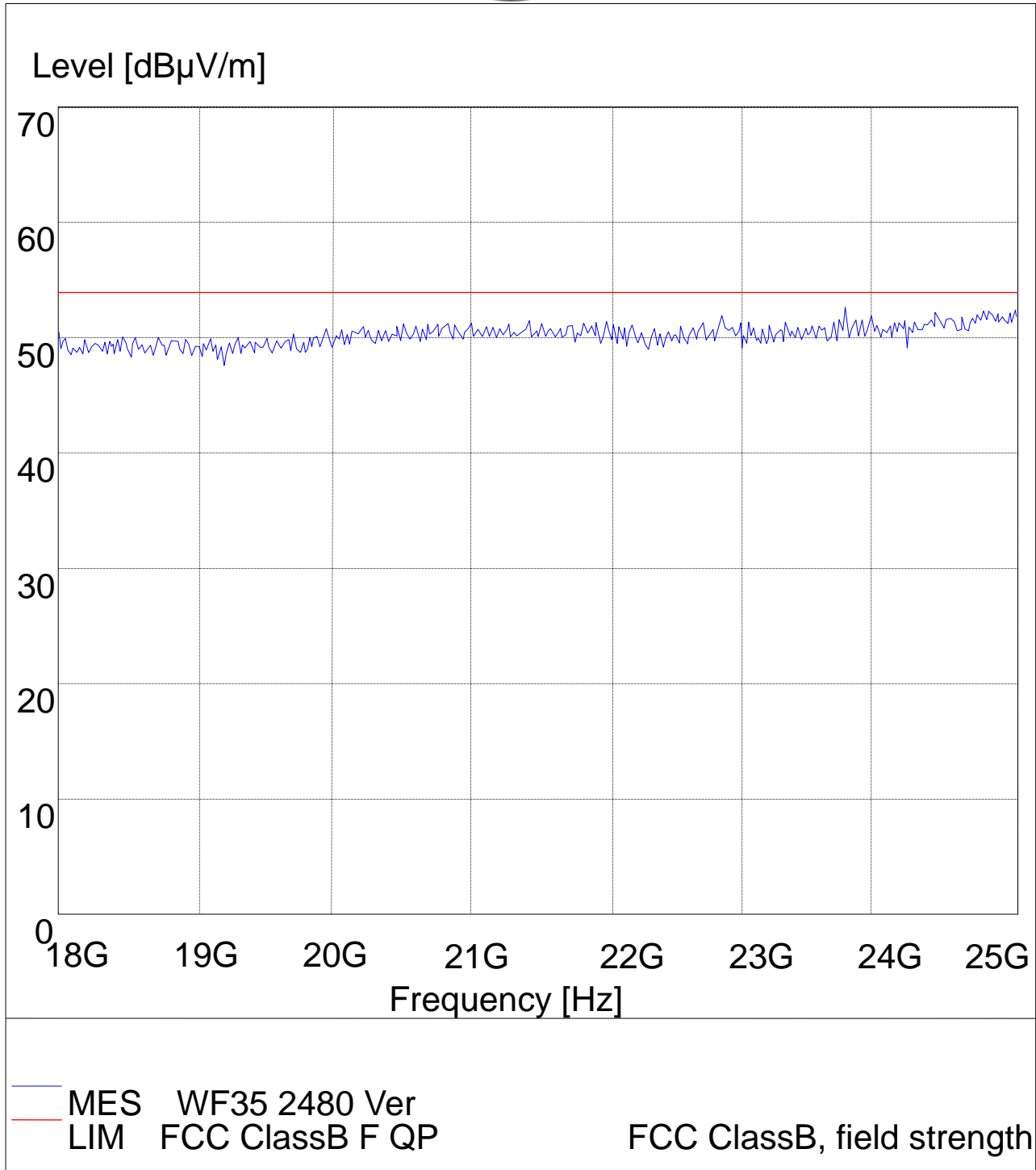
**18-25G Horizontal High Channel**



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**18-25G Vertical High Channel**



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## 7.0 20dB Bandwidth Measurement

### 7.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 7.2 Limits of 20dB Bandwidth Measurement

The minimum of 20dB Bandwidth Measurement is <1MHz

### 7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

### 7.4 Test Result

EUT	PDA with WiFi 802.11b/g		Model	WF35
Mode	Keep Transmitting		Input Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	846	<1000	Pass
Middle	2441	846	<1000	Pass
High	2480	850	<1000	Pass

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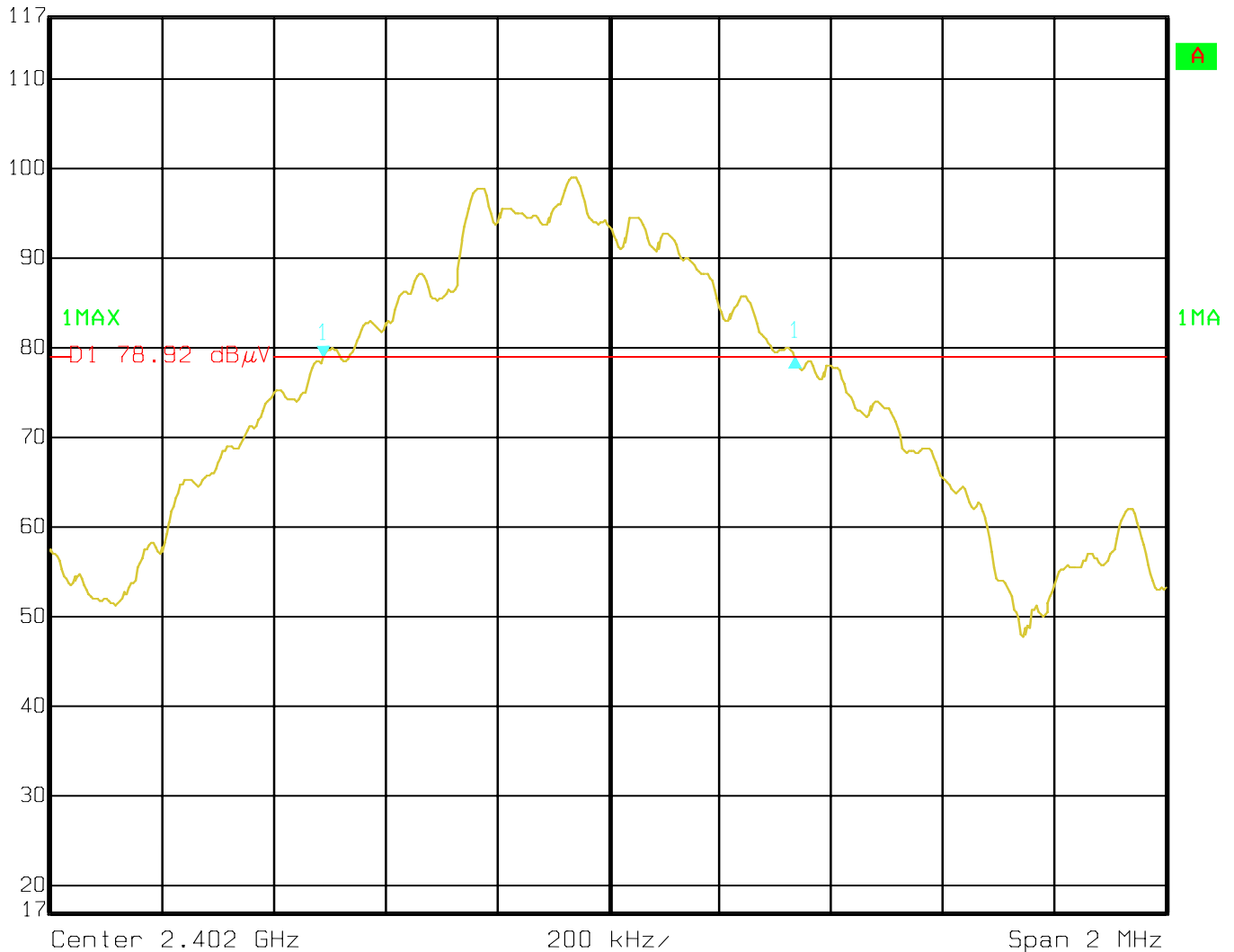
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Test Figure:

**1. Condition: Low Channel**

	Delta 1 [T1]	RBW	30 kHz	RF Att	20 dB
	Ref Lvl	0.11 dB	VBW	30 kHz	
	117 dB $\mu$ V	845.69138276 kHz	SWT	6 ms	Unit



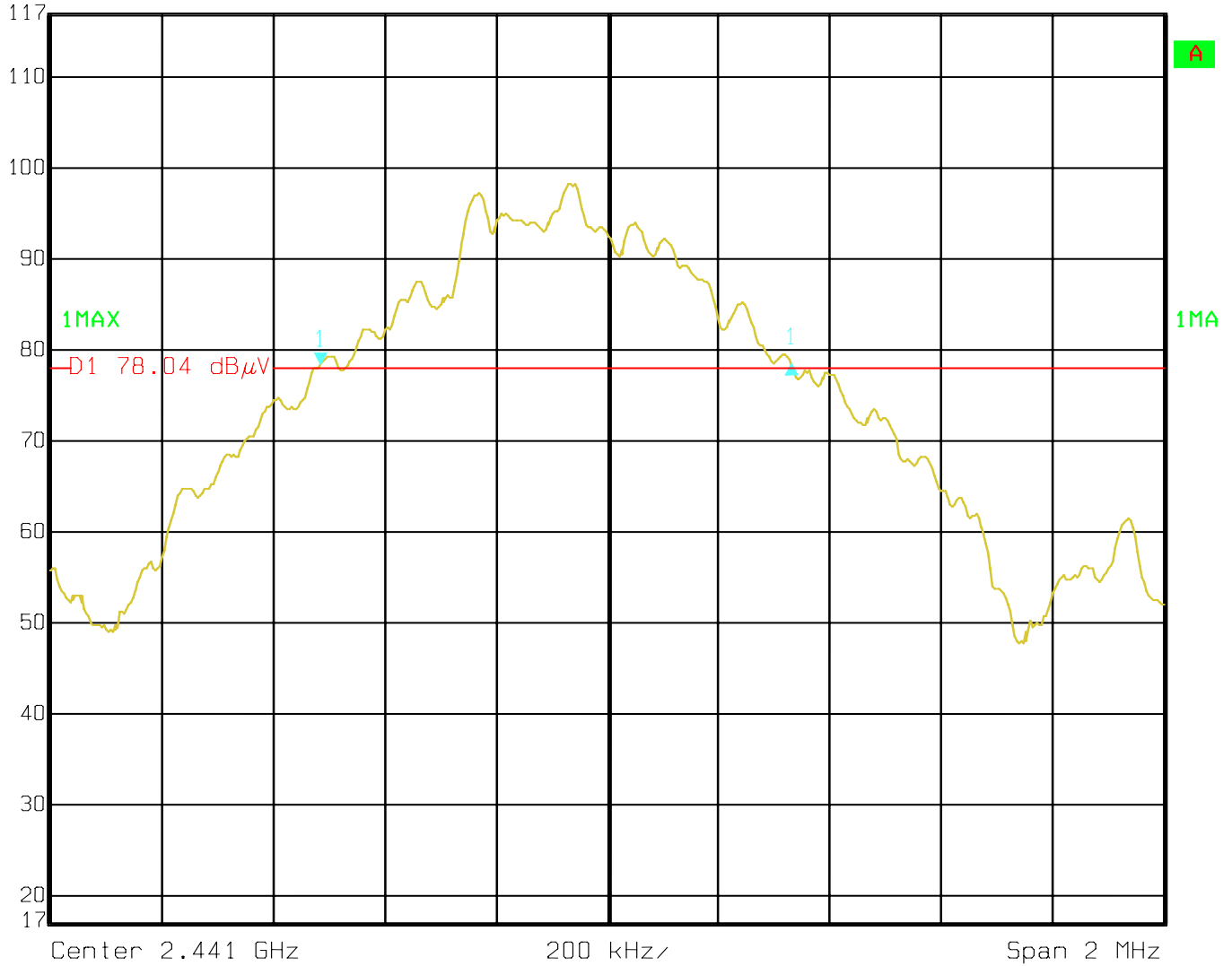
Date: 13.AUG.2008 11:56:24

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**2. Condition: Middle Channel**

	Delta 1 [T1]	RBW	30 kHz	RF Att	20 dB
	Ref Lvl	0.25 dB	VBW	30 kHz	
	117 dB $\mu$ V	845.69138277 kHz	SWT	6 ms	Unit



Date: 13.AUG.2008 11:58:28

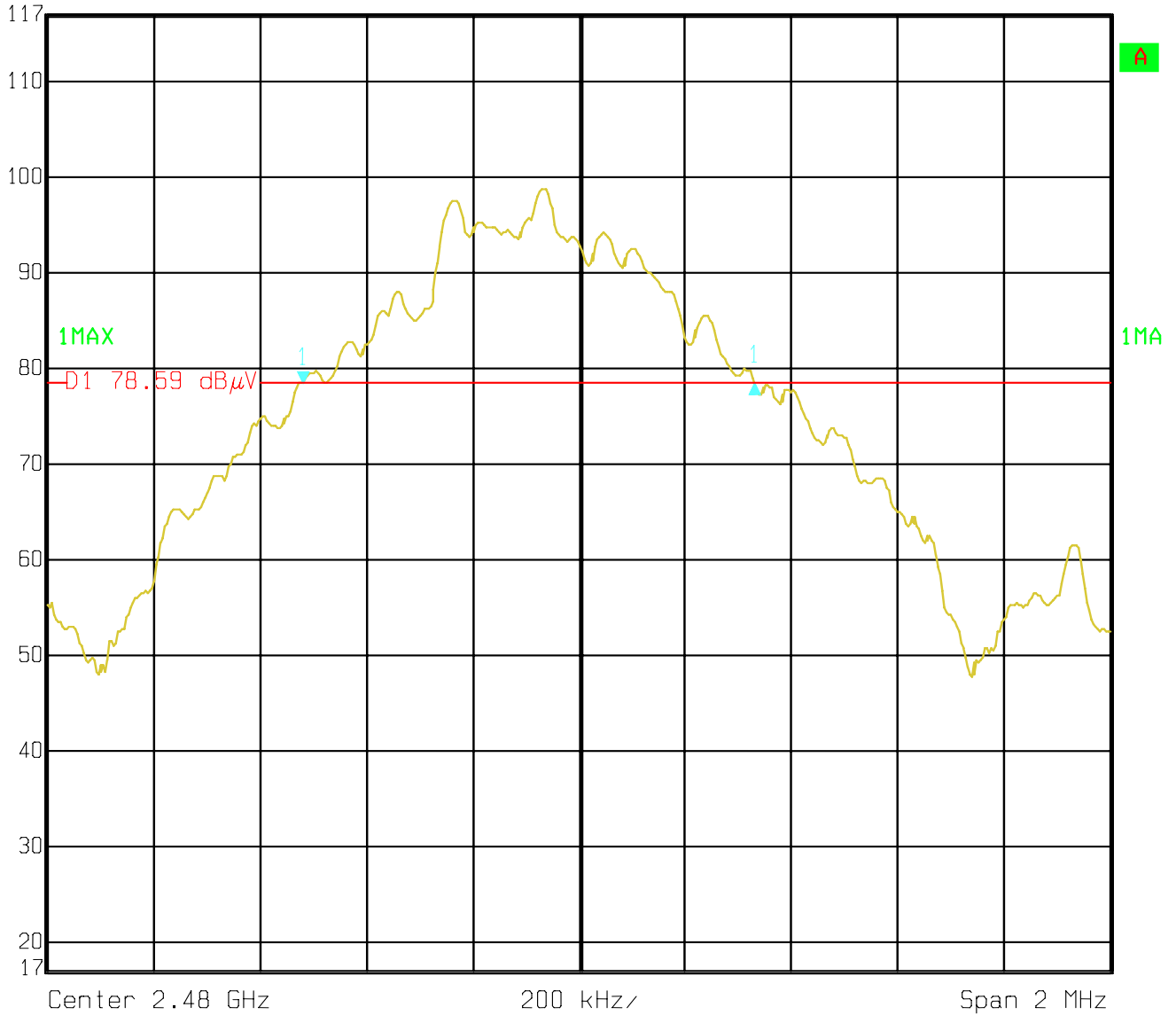
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**3. High Channel**



Delta 1 [T1]	RBW	30 kHz	RF Att	20 dB
0.37 dB	VBW	30 kHz		
849.69939879 kHz	SWT	6 ms	Unit	dB $\mu$ V
Ref Lvl				
117 dB $\mu$ V				



Date: 13.AUG.2008 12:02:45

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## **8. Maximum Peak Output Power**

### **8.1 Regulation**

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **8.2 Limits of Maximum Peak Output Power**

The Maximum Peak Output Power Measurement is 30dBm.

### **8.3 Test Procedure**

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

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**8.4 Test Results**

EUT	PDA with WiFi 802.11b/g		Model	WF35
Mode	Keeping Transmitting		Input Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Low	2402	-3.50	30	Pass
Middle	2441	-3.91	30	Pass
High	2480	-3.43	30	Pass

Note: 1. the result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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## 9. Power Spectral Density Measurement

### 9.1 Regulation

According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

### 9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer to MAX HOLD mode with RBW = 3 kHz.
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

### 9.4 Test Result

EUT	PDA with WiFi 802.11b/g		Model	WF35
Mode	Keeping Transmitting		Input Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
Low	2402	-18.88	8	Pass
Middle	2441	-19.46	8	Pass
High	2480	-19.29	8	Pass

The report refers only to the sample tested and does not apply to the bulk.

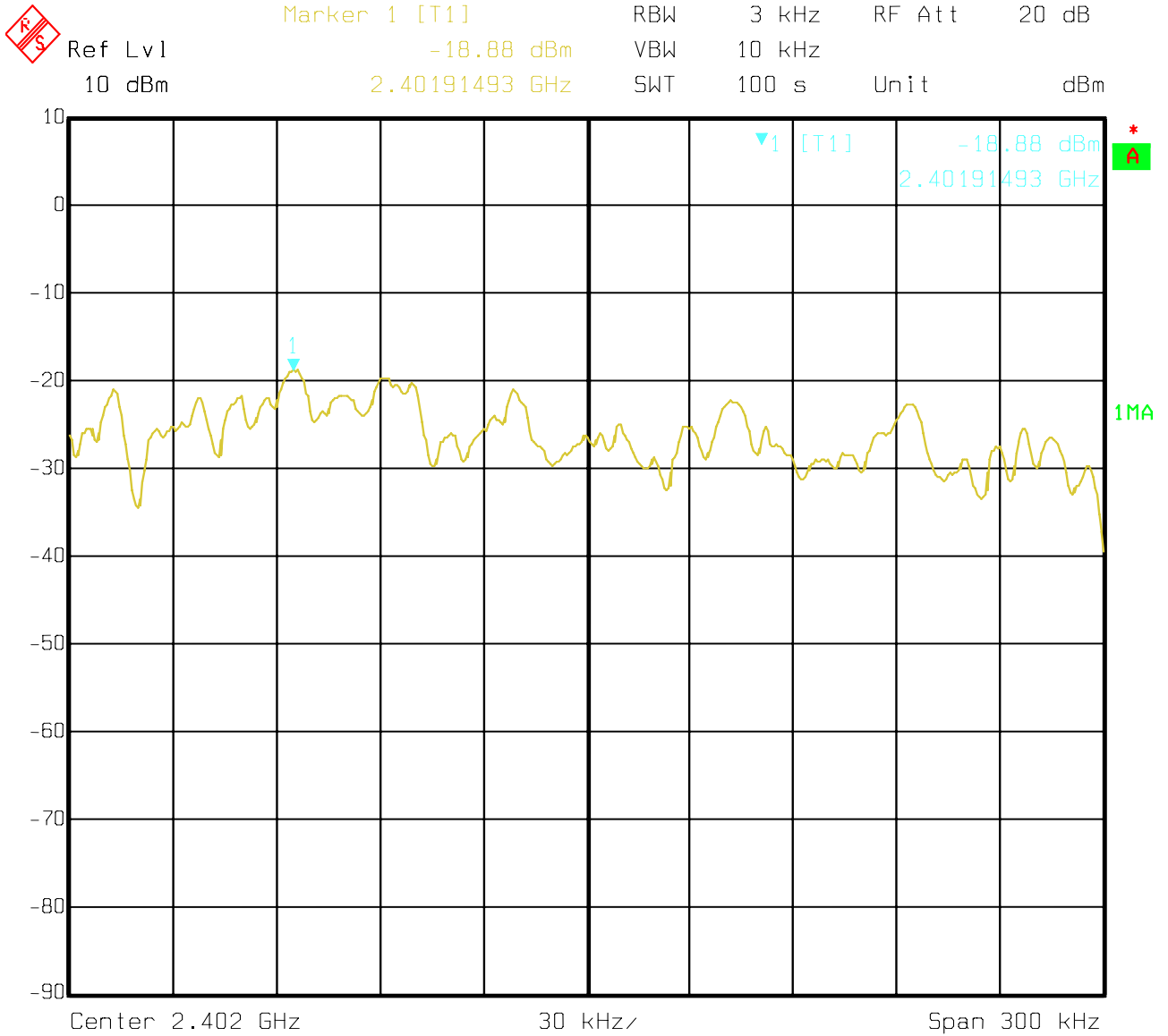
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### 9.5 Photo of Power Spectral Density Measurement

#### 1. Low Channel



Date: 13.AUG.2008 15:46:25

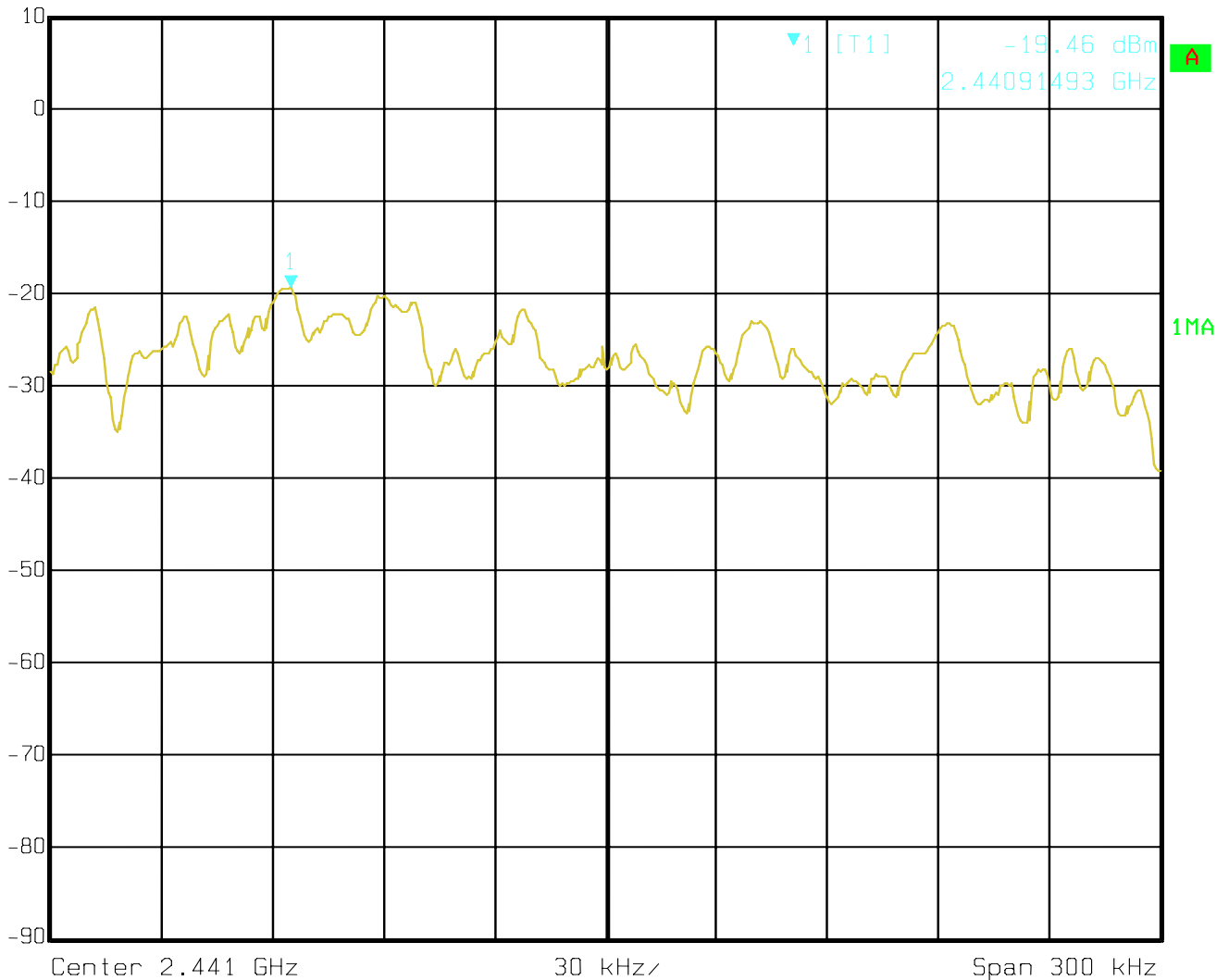
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2. Middle Channel



Ref Lvl 10 dBm  
 Marker 1 [T1] -19.46 dBm  
 2.44091493 GHz  
 RBW 3 kHz  
 VBW 10 kHz  
 SWT 100 s  
 RF Att 20 dB  
 Unit dBm



Date: 13.AUG.2008 15:50:51

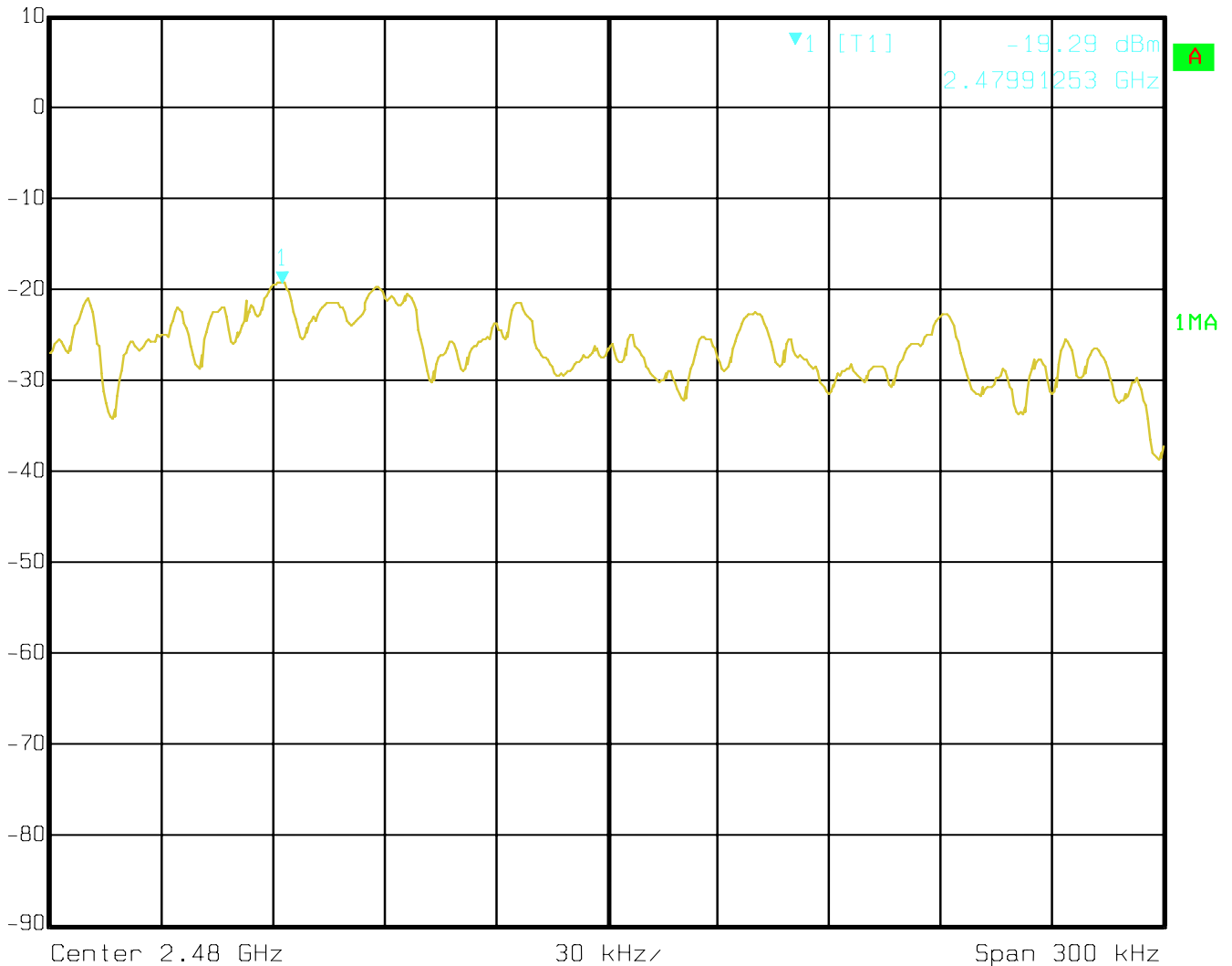
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3. High Channel



Ref Lvl	Marker 1 [T1]	RBW	3 kHz	RF Att	20 dB
10 dBm	-19.29 dBm	VBW	10 kHz		
	2.47991253 GHz	SWT	100 s	Unit	dBm



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## 10. Carrier Frequency Separation

### 10.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW.

### 10.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

### 10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW)  $\geq$  1% of the span; Video (or Average) Bandwidth (VBW)  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

### 10.4 Test Result

EUT	PDA with WiFi 802.11b/g		Model	WF35
Mode	Keeping Transmitting		Input Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Carrier Frequency Separation	Limit	Pass/ Fail
Middle	2441	1MHz	$\geq$ 25 kHz or 20 dB bandwidth	Pass

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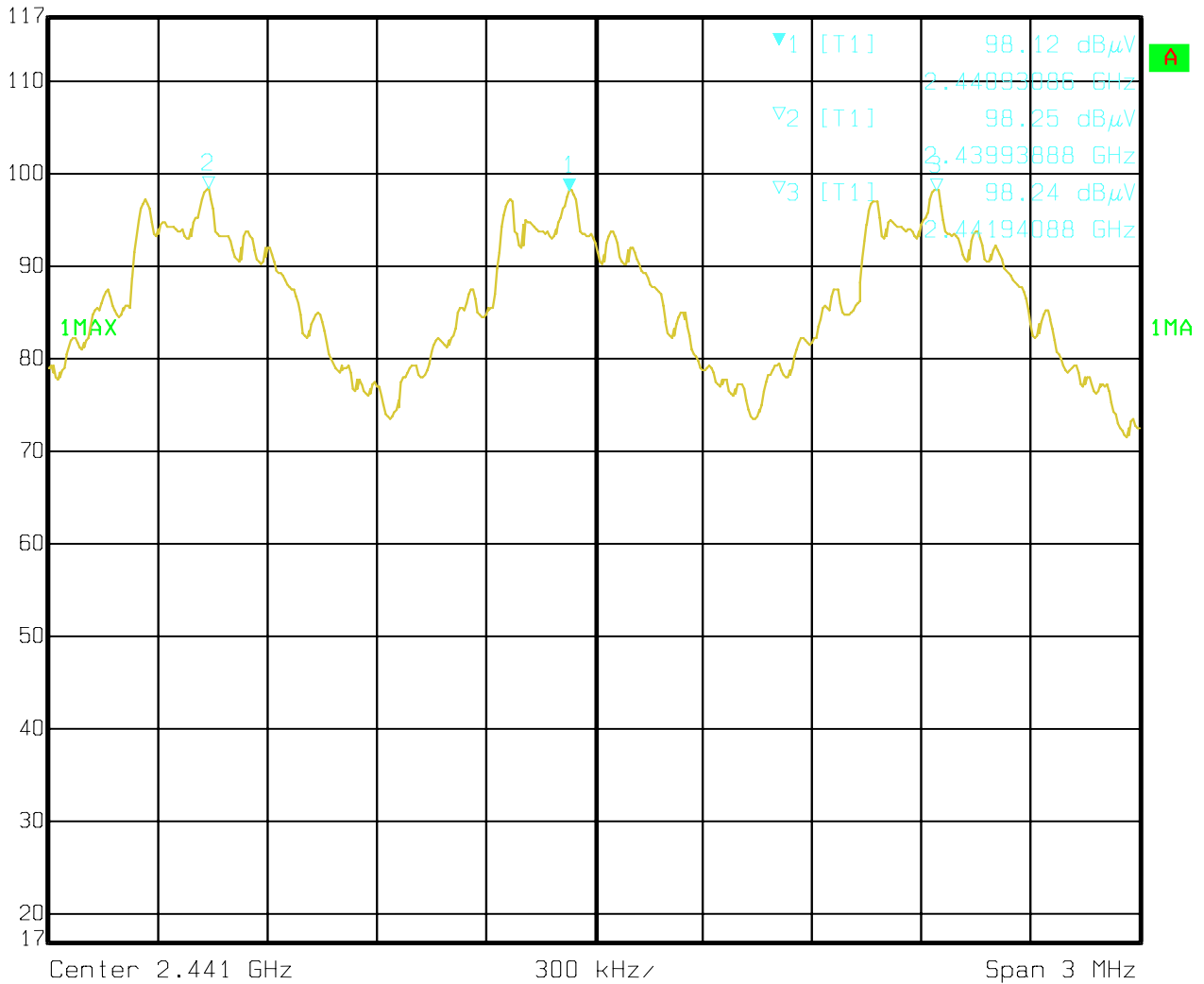
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**Test Plots**

Middle Channel

	Marker 1 [T1]	RBW	30 kHz	RF Att	20 dB
	Ref Lvl	98.12 dB $\mu$ V	VBW	30 kHz	
	117 dB $\mu$ V	2.44093086 GHz	SWT	8.5 ms	Unit dB $\mu$ V



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## 11. Number of Hopping Channels

### 11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

### 11.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

### 11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW  $\geq$  1% of the span; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Record the number of hopping channels.

### 11.4 Test Result

EUT	PDA with WiFi 802.11b/g	Model	WF35
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	$\geq 15$	Pass

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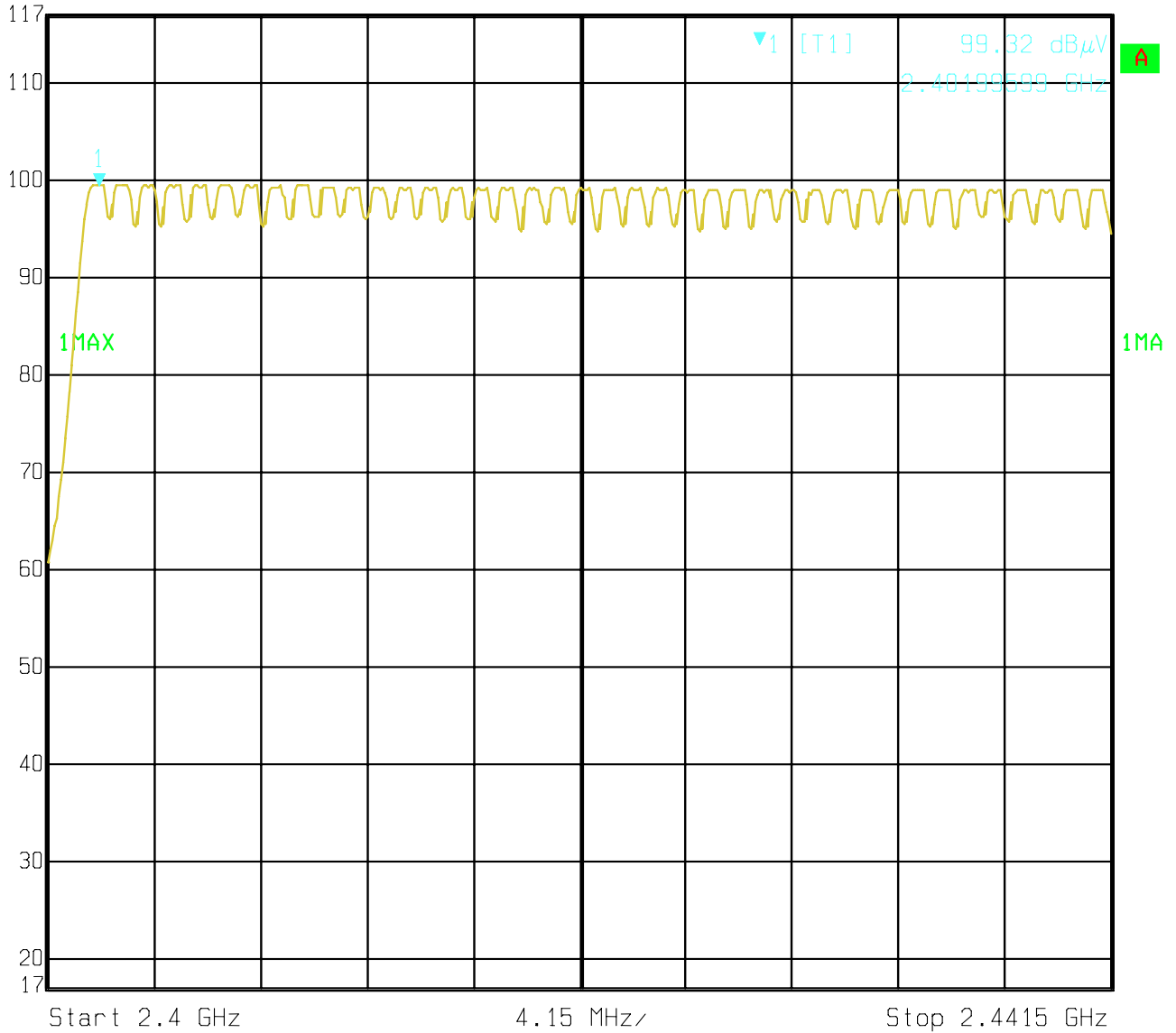




**Test Plot**



Marker 1 [T1] RBW 500 kHz RF Att 20 dB  
 Ref Lvl 99.32 dB $\mu$ V VBW 500 kHz  
 117 dB $\mu$ V 2.40199599 GHz SWT 5 ms Unit dB $\mu$ V



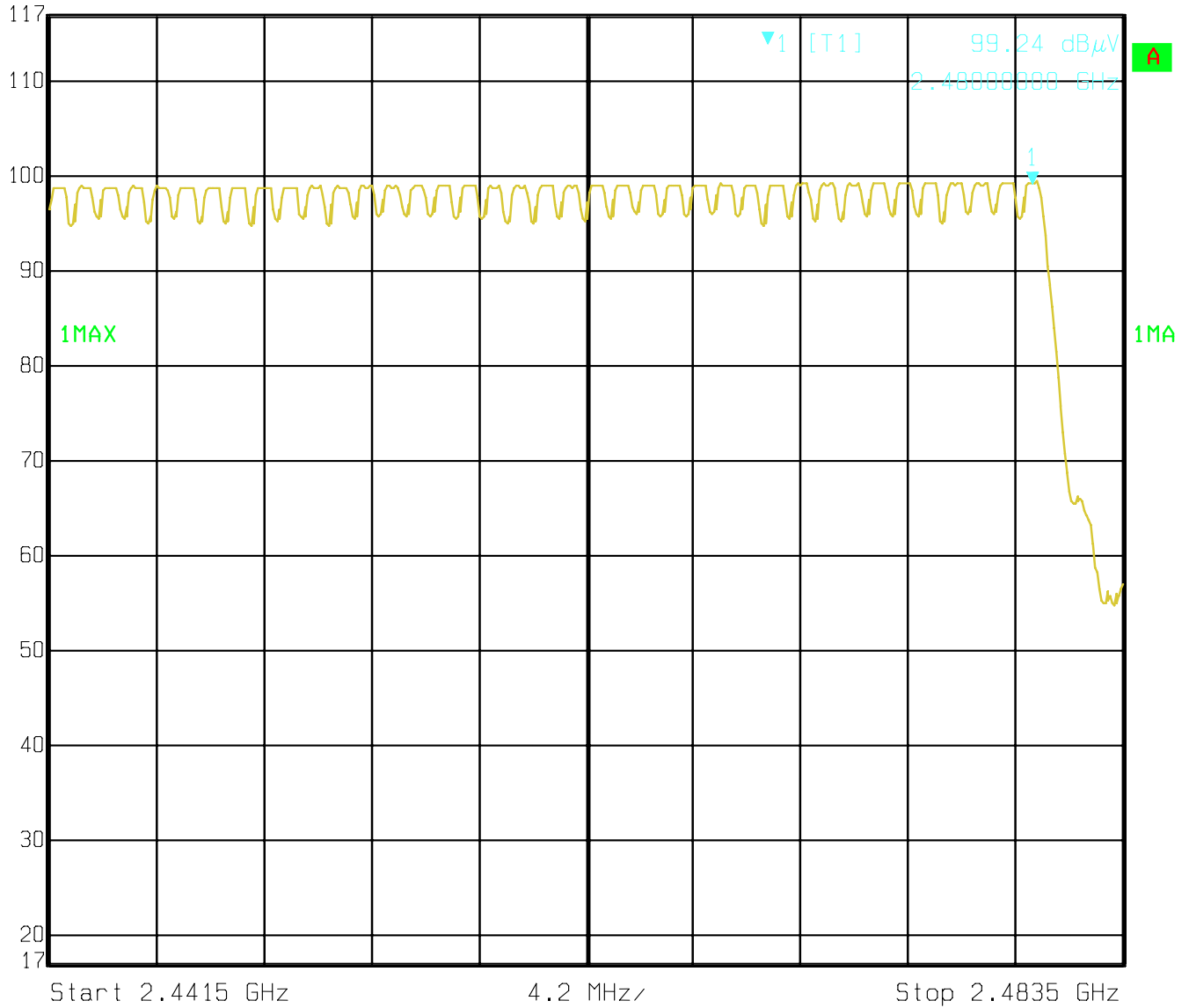
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Marker 1 [T1]

Ref Lvl	99.24 dB $\mu$ V	RBW	500 kHz	RF Att	20 dB
117 dB $\mu$ V	2.48000000 GHz	VBW	500 kHz	Unit	dB $\mu$ V
		SWT	5 ms		



Date: 13.AUG.2008 15:41:16

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## **12. Time of Occupancy (Dwell Time)**

### **12.1 Regulation**

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

### **12.2 Limits of Carrier Frequency Separation**

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

### **12.3 Test Procedure**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW  $\geq$  RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold
3. Measure the dwell time using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.
5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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**12.4 Test Result**

EUT	PDA with WiFi 802.11b/g		Model	WF35
Mode	Keeping Transmitting		Input Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Reading	Hopping Rate	Actual	Limit
Low	2.9058	266.667 hop/s	0.31	0.4s
Middle	2.8897	266.667 hop/s	0.31	0.4s
High	2.9058	266.667 hop/s	0.31	0.4s

Actual = Reading × (Hopping rate / Number of channels) × Test period  
 Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds]  
 NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels. A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels. And the DH5 is the worst case.

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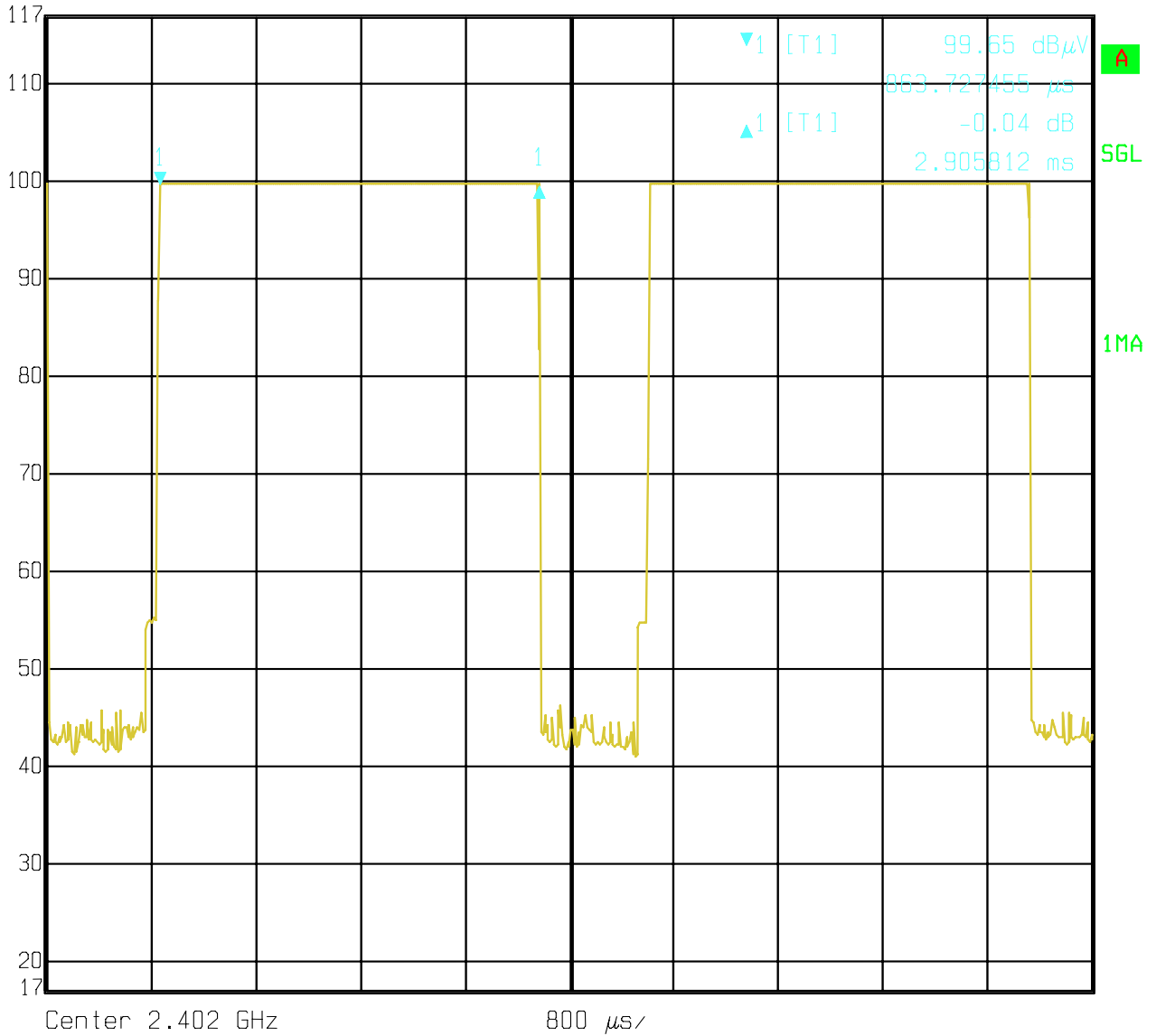


Test Plots:

Low Channel: **DH5**



Ref Lvl	Delta 1 [T1]	RBW	1 MHz	RF Att	20 dB
117 dB $\mu$ V	-0.04 dB	VBW	1 MHz		
	2.905812 ms	SWT	8 ms	Unit	dB $\mu$ V



Date: 13.AUG.2008 12:35:29

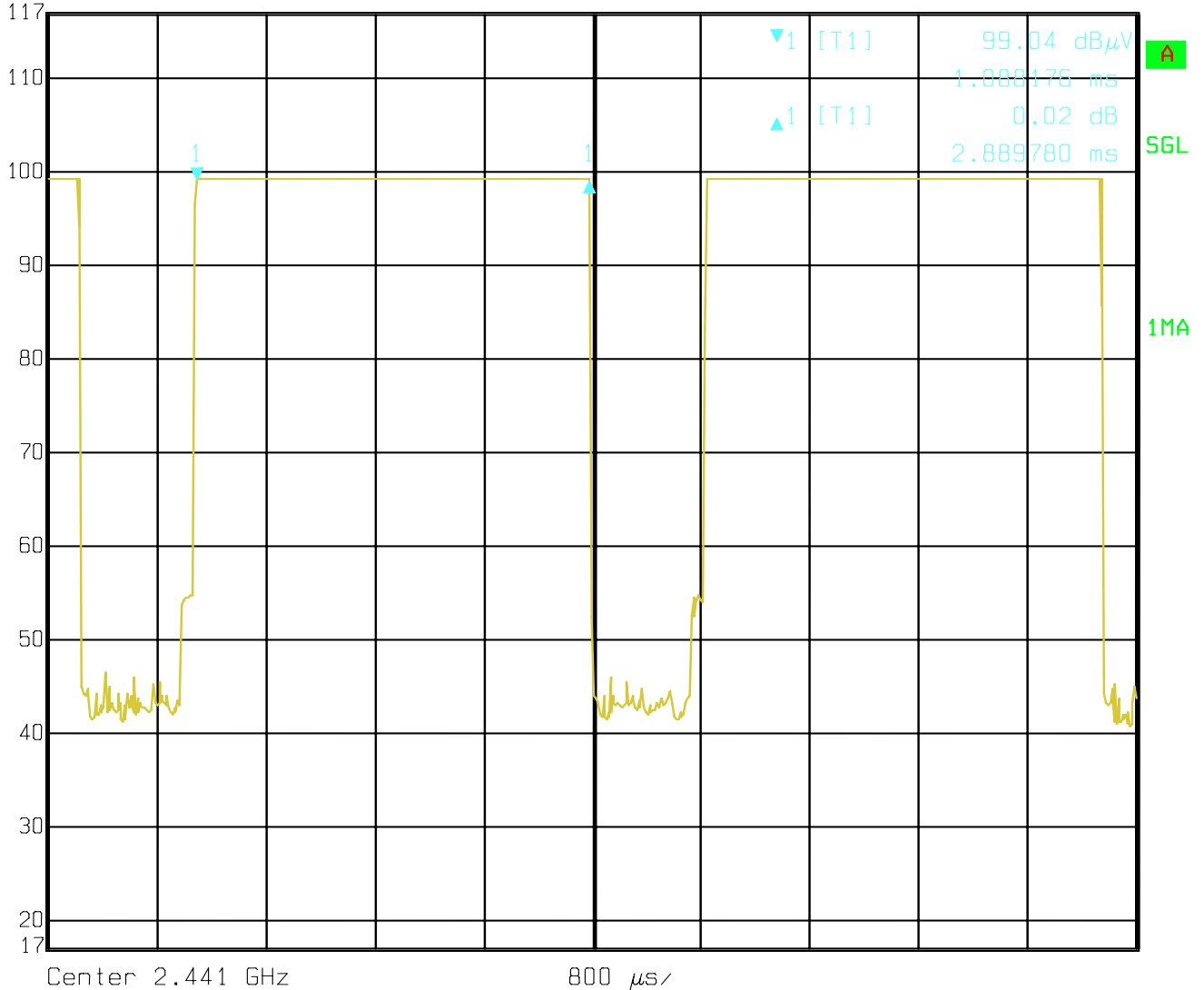
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Middle Channel: **DH5**



Ref Lvl	Delta 1 [T1]	RBW	1 MHz	RF Att	20 dB
117 dB $\mu$ V	0.02 dB	VBW	1 MHz		
	2.889780 ms	SWT	8 ms	Unit	dB $\mu$ V



Date: 13.AUG.2008 12:36:45

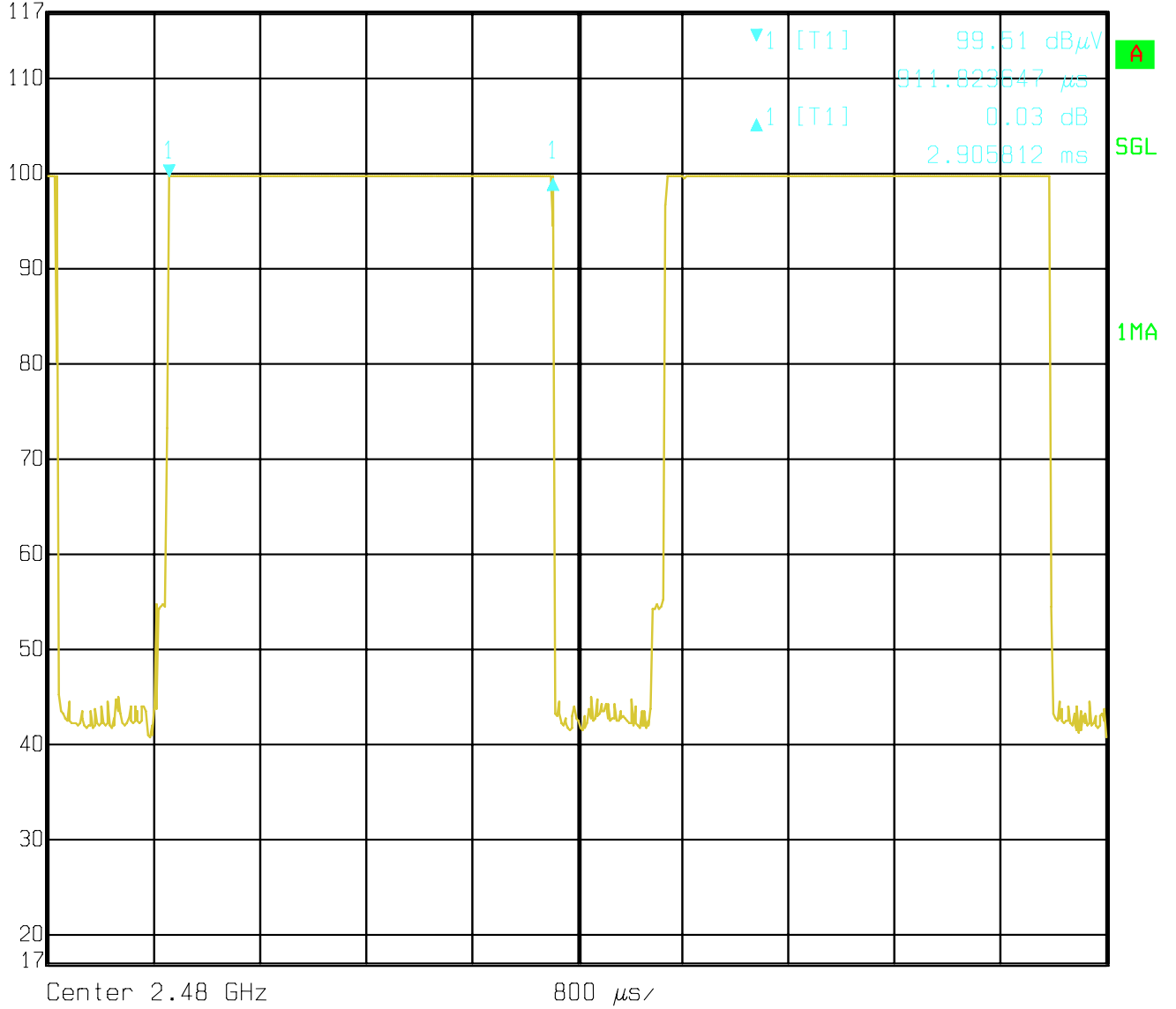
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High Channel: **DH5**



Ref Lvl	Delta 1 [T1]	RBW	1 MHz	RF Att	20 dB
117 dB $\mu$ V	0.03 dB	VBW	1 MHz		
	2.905812 ms	SWT	8 ms	Unit	dB $\mu$ V



Date: 13.AUG.2008 12:37:56

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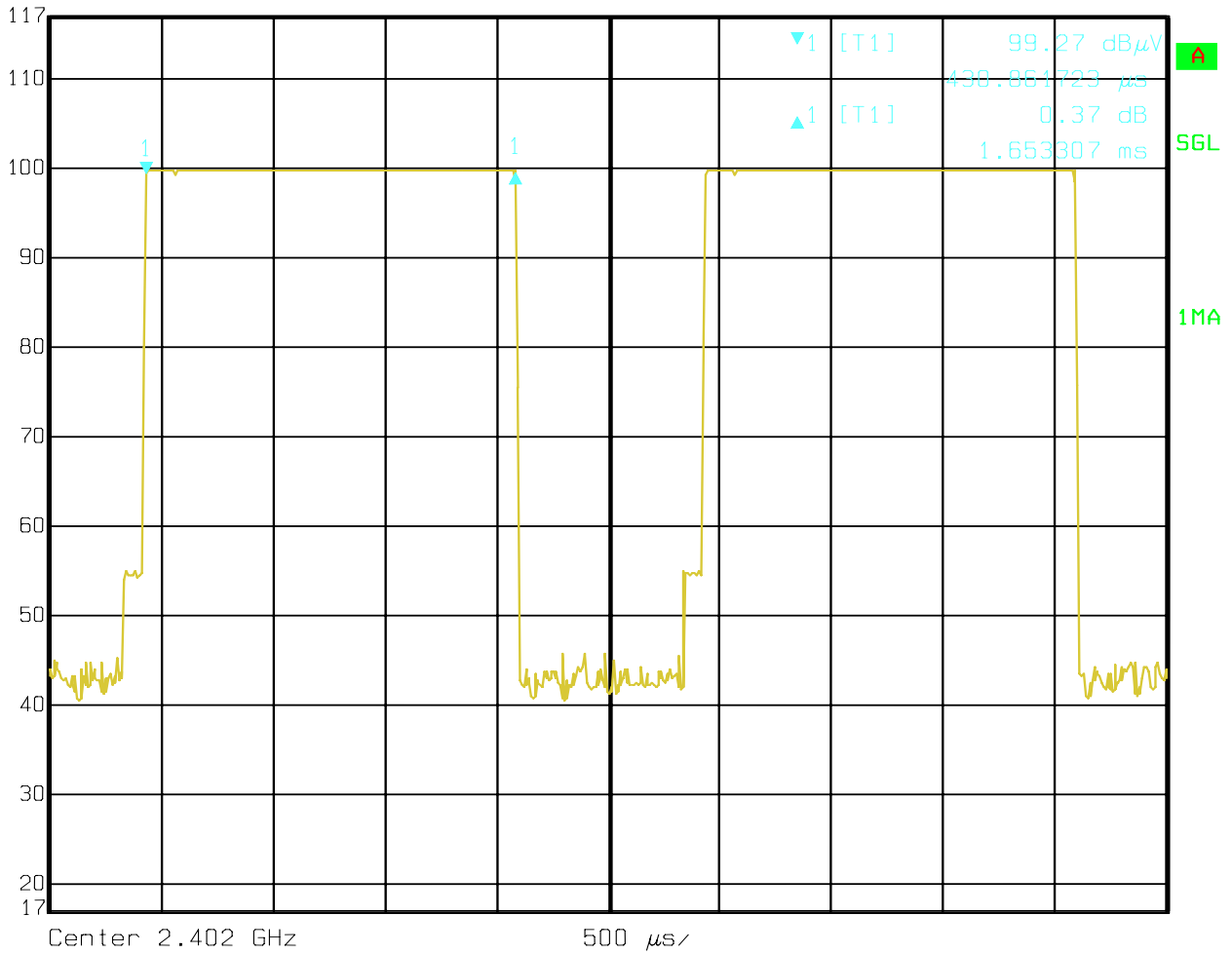


Low  
 DH3

Channel:



Ref Lvl	Delta 1 [T1]	RBW	1 MHz	RF Att	20 dB
117 dB $\mu$ V	0.37 dB	VBW	1 MHz		
	1.653307 ms	SWT	5 ms	Unit	dB $\mu$ V



Date: 13.AUG.2008 12:31:04

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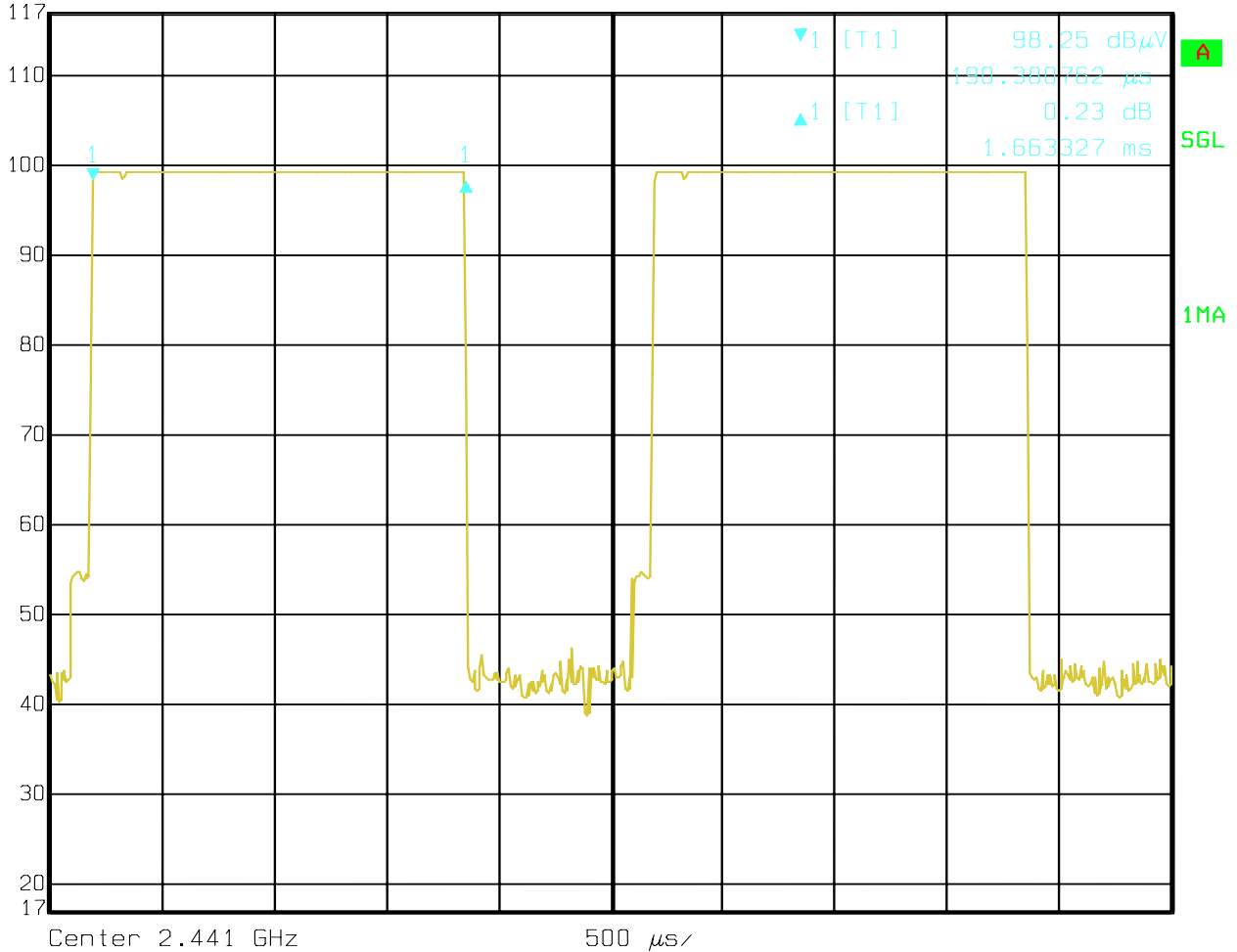




Middle Channel: **DH3**



Ref Lvl	Delta 1 [T1]	RBW	1 MHz	RF Att	20 dB
117 dB $\mu$ V	0.23 dB	VBW	1 MHz		
	1.663327 ms	SWT	5 ms	Unit	dB $\mu$ V



Date: 13.AUG.2008 12:29:58

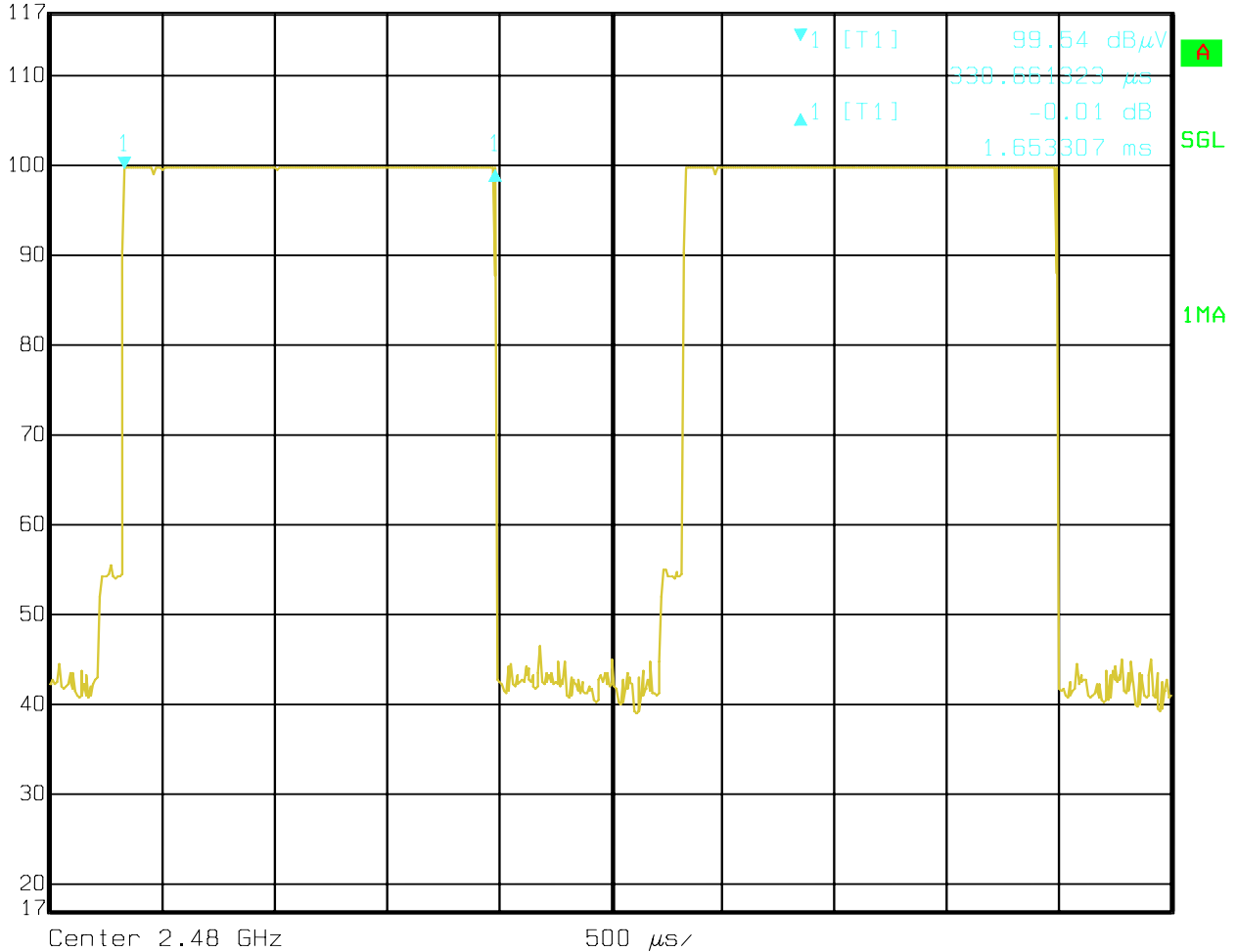
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High Channel: DH3



Ref Lvl	Delta 1 [T1]	RBW	1 MHz	RF Att	20 dB
117 dB $\mu$ V	-0.01 dB	VBW	1 MHz		
	1.653307 ms	SWT	5 ms	Unit	dB $\mu$ V



Date: 13.AUG.2008 12:28:21

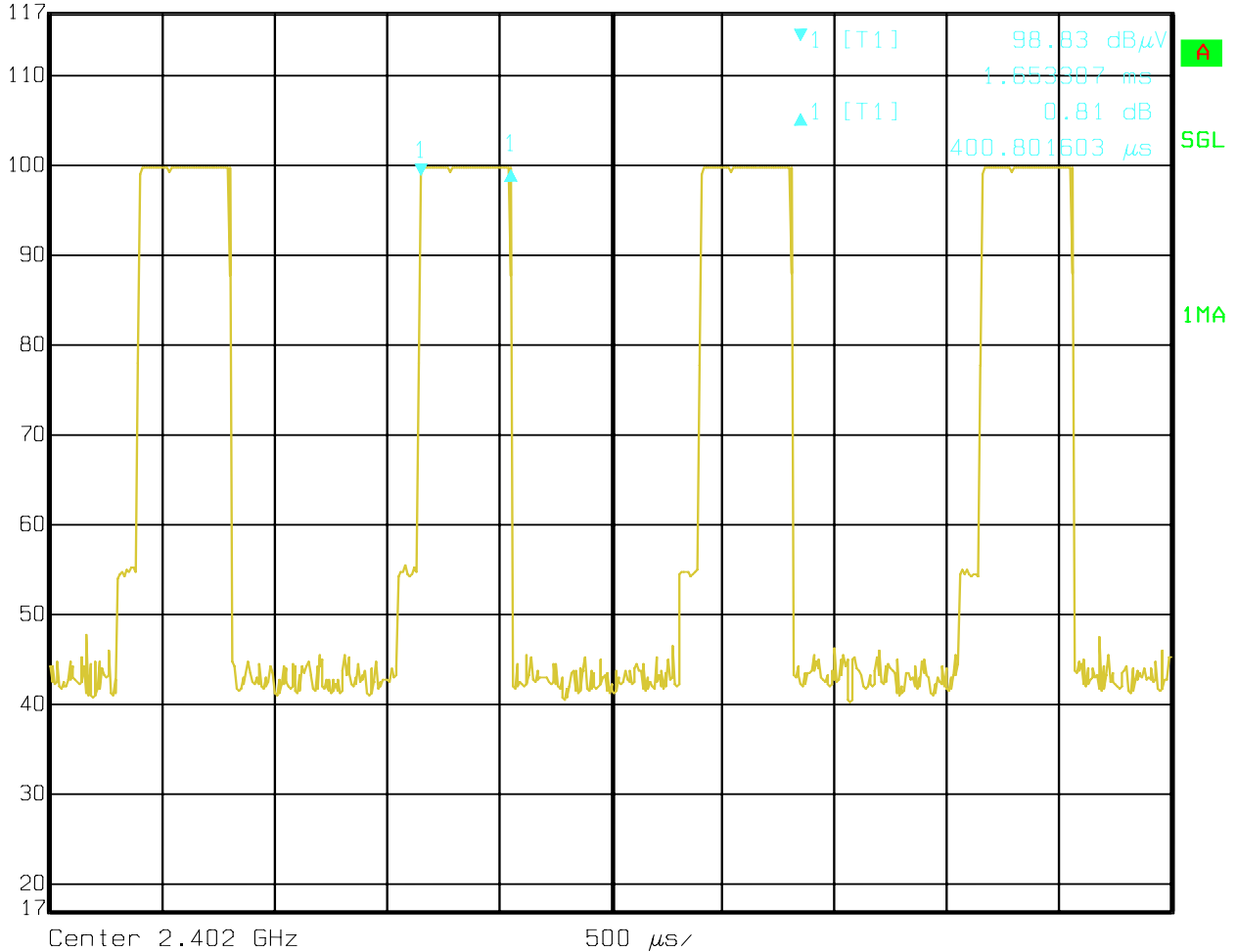
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Low Channel: DH1



Ref Lvl	Delta 1 [T1]	RBW	1 MHz	RF Att	20 dB
117 dB $\mu$ V	0.81 dB	VBW	1 MHz		
	400.801603 $\mu$ s	SWT	5 ms	Unit	dB $\mu$ V



Date: 13.AUG.2008 12:22:12

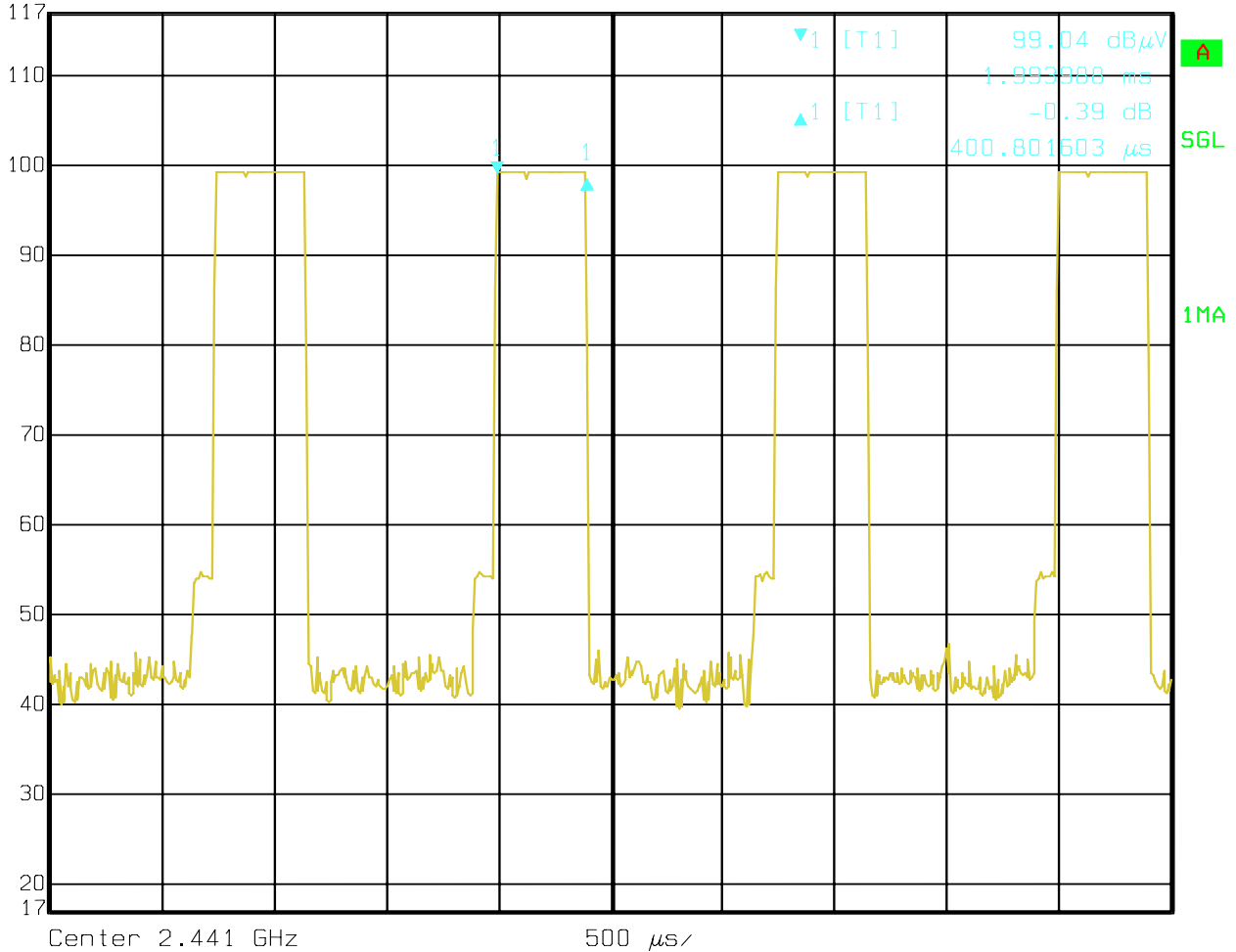
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Middle Channel: DH1



Ref Lvl	Delta 1 [T1]	RBW	1 MHz	RF Att	20 dB
117 dB $\mu$ V	-0.39 dB	VBW	1 MHz		
	400.801603 $\mu$ s	SWT	5 ms	Unit	dB $\mu$ V



Date: 13.AUG.2008 12:24:30

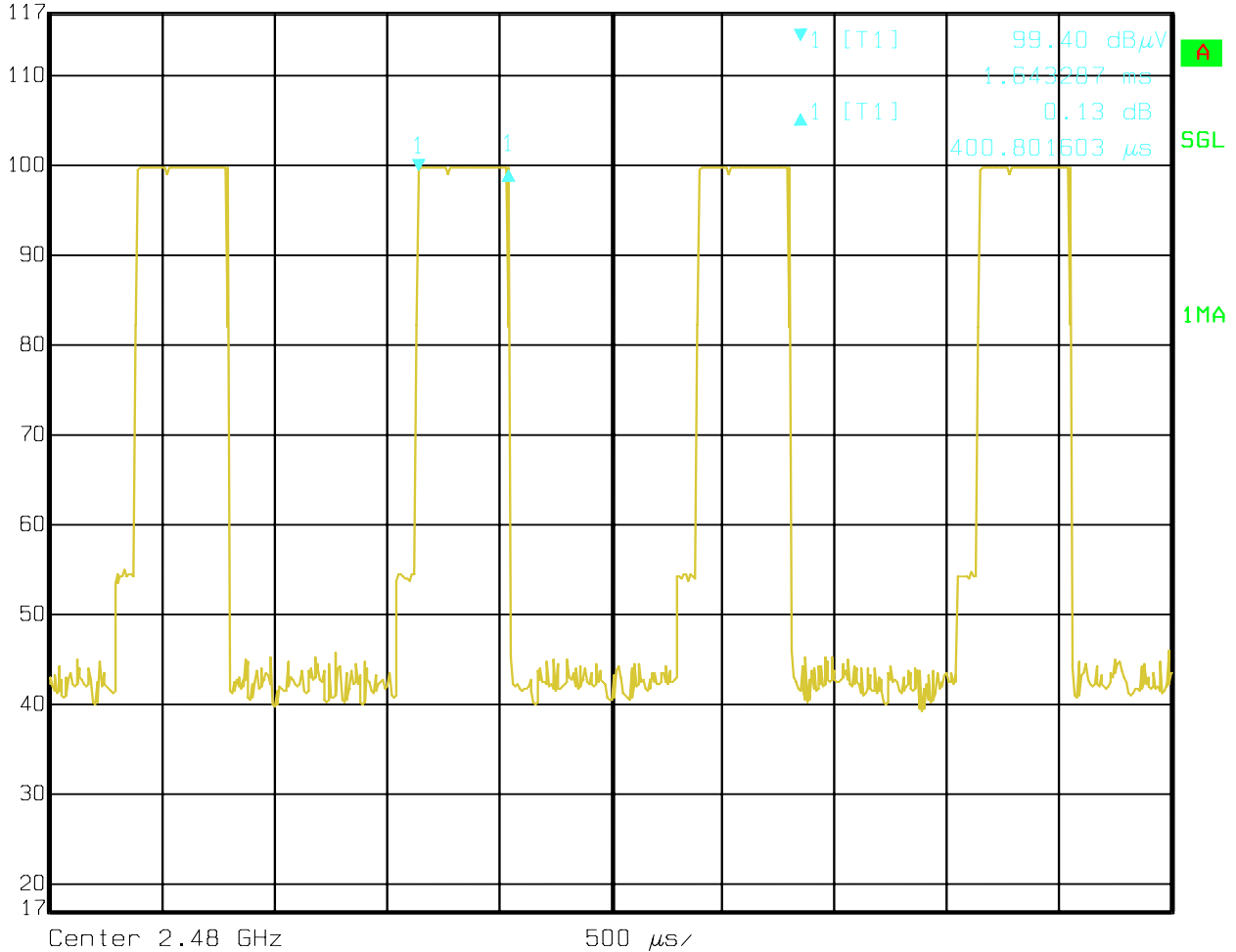
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High Channel: DH1:



Delta 1 [T1]	RBW	1 MHz	RF Att	20 dB
Ref Lvl	0.13 dB	VBW	1 MHz	
117 dB $\mu$ V	400.801603 $\mu$ s	SWT	5 ms	Unit dB $\mu$ V



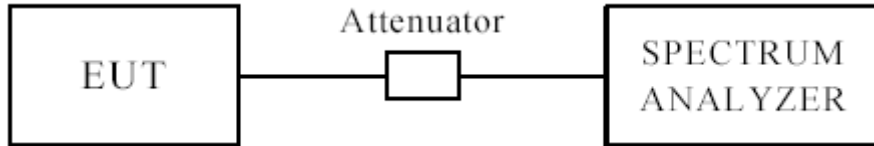
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## 13 Out of Band Measurement

### 10.1 Test Setup



### 13.2 Limits of Out of Band Emissions Measurement

1. Below  $-20\text{dB}$  of the highest emission level of operating band (in  $100\text{kHz}$  Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 13.3 Test Procedure

For signals in the restricted bands above and below the  $2.4\text{--}2.483\text{GHz}$  allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in  $\text{dBc}$ , was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak  $\text{RBW}=\text{VBW}=1\text{MHz}$ ; Average  $\text{RBW}=1\text{MHz}$ ,  $\text{VBW}=10\text{Hz}$ ) are attached on the following pages.

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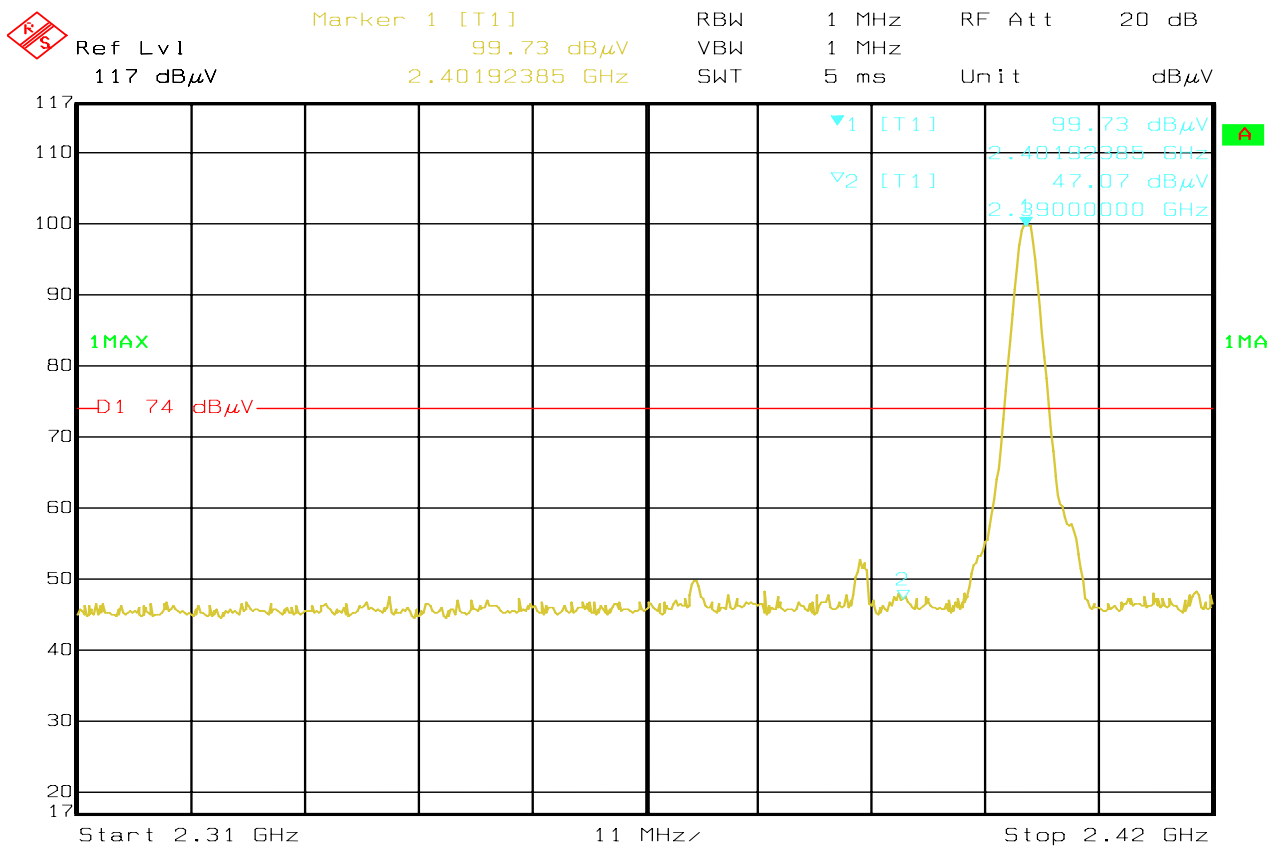
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13.4 Out of Band Test Result

Product:	PDA with WiFi 802.11b/g		Test Mode:	Low Channel
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dB $\mu$ V/m)	37.5	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	27.2		54(dB $\mu$ V/m)

Test Figure:



Date: 13.AUG.2008 12:19:30

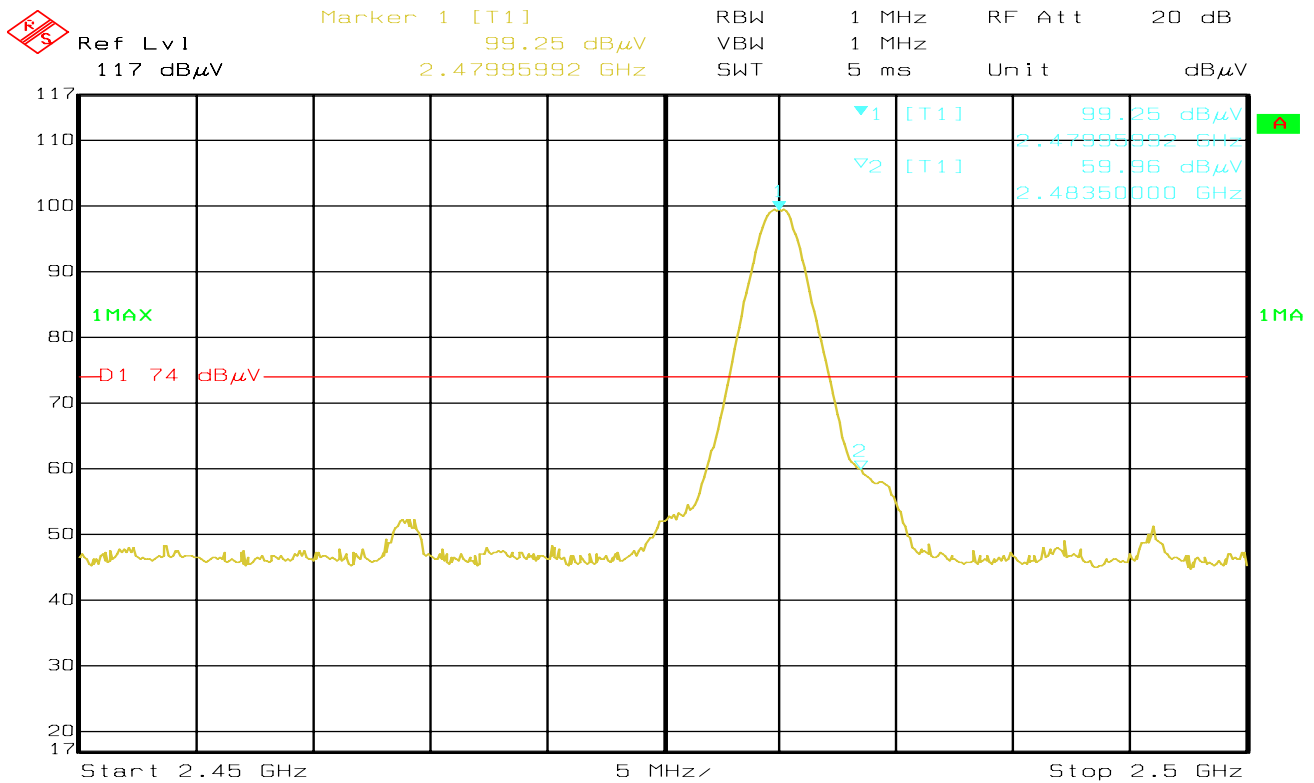
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13.4 Out of Band Test Result

Product:	PDA with WiFi 802.11b/g		Test Mode:	High Channel
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dB $\mu$ V/m)	48.6	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	35.8		54(dB $\mu$ V/m)

Test Figure:



Date: 13.AUG.2008 12:15:24

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## **14.0 Antenna Requirement**

### **14.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **14.2 Antenna Connected construction**

The antenna is chip dielectric antenna. The maximum Gain of this antenna is -3.0dBi

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## 15.0 Maximum Permissible Exposure

### Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

#### (a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

#### (b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; \*Plane-wave equivalent power density

### MPE Calculation Method

$$E \text{ (V/m)} = (30 \cdot P \cdot G)^{0.5} / d \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = E^2 / 377$$

**E** = Electric Field (V/m)

**P** = Peak RF output Power (W)

**G** = EUT Antenna numeric gain (numeric)

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = (30 \cdot P \cdot G) / (377 \cdot d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

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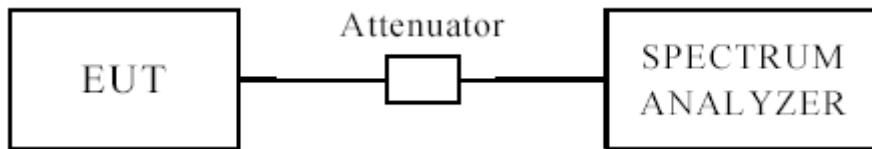
**Calculated Result and Limit**

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
0.501	-3.43	0.4539	0.000045	1	Compiles

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**16.0 99% Bandwidth Measurement Test Setup**



**Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 300 kHz VBW. Then use the 99% Occupied Bandwidth function of the analyzer to measure. The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

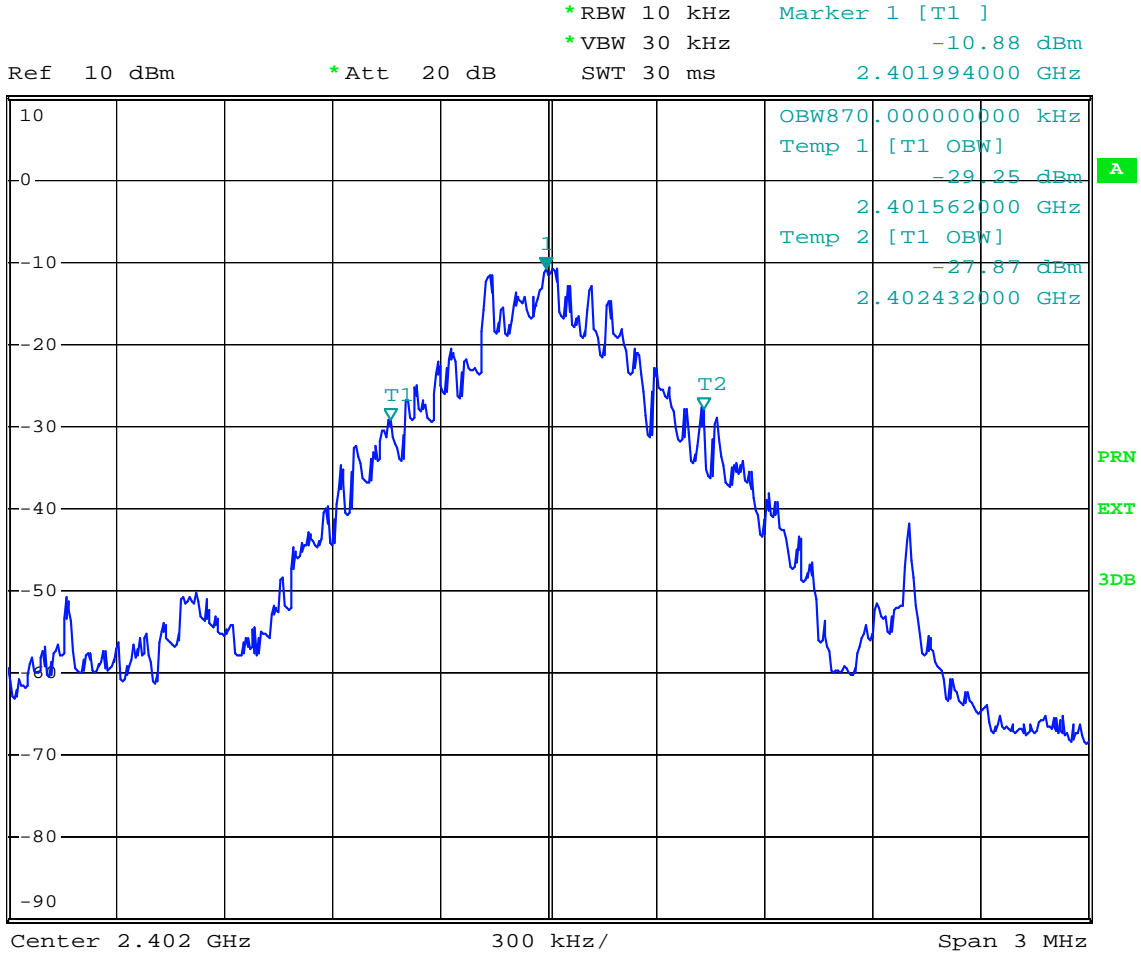
**Test Result**

EUT	PDA with WiFi 802.11b/g	Model	WF35
Mode	Bluetooth	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz) Data Transfer Rate (Mbps)	99% Bandwidth (kHz)	Pass/ Fail
1	2402	870	Pass
6	2441	870	Pass
11	2480	876	Pass

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Test Figure: Low Channel



Date: 13.AUG.2008 19:00:19

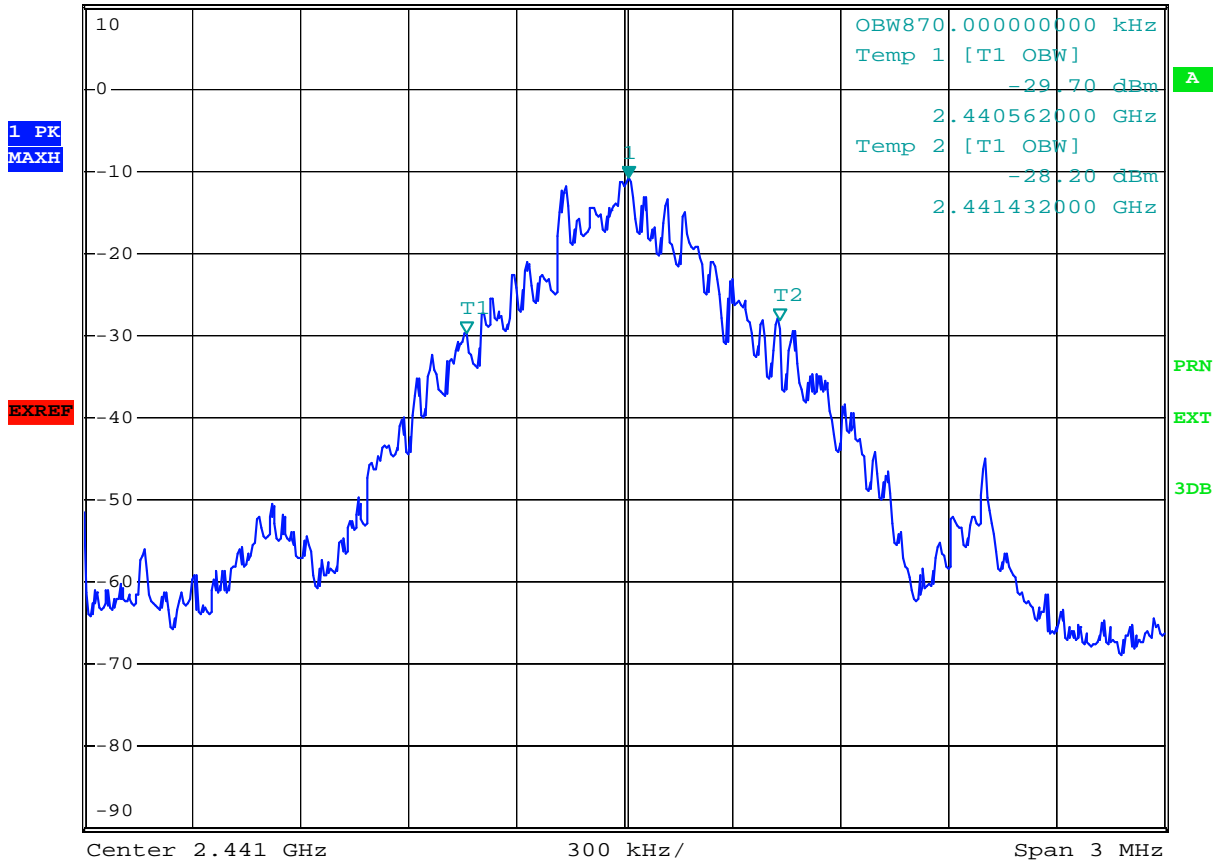
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Middle Channel



\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 30 kHz      -10.94 dBm  
 Ref 10 dBm      \*Att 20 dB      SWT 30 ms      2.441012000 GHz



Date: 13.AUG.2008 18:59:57

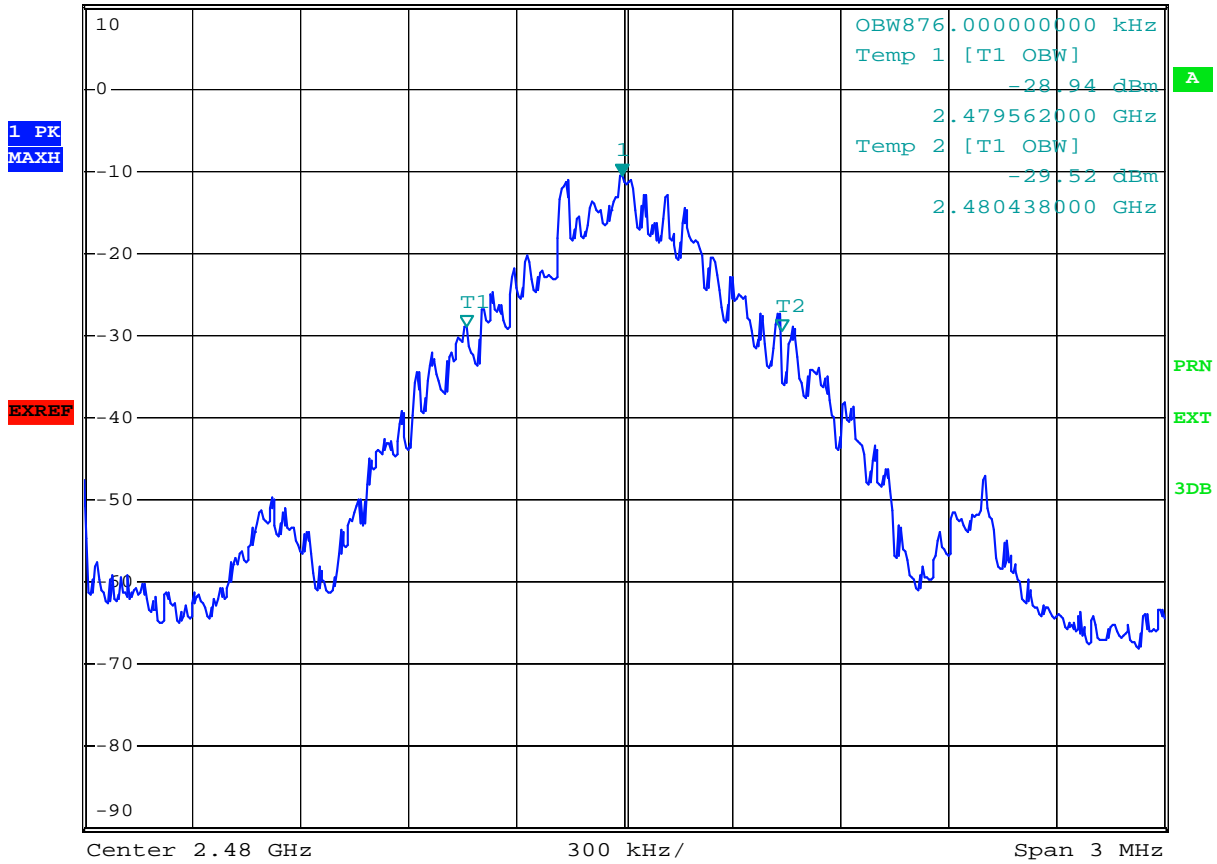
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High Channel



\*RBW 10 kHz      Marker 1 [T1 ]  
 \*VBW 30 kHz      -10.60 dBm  
 Ref 10 dBm      \*Att 20 dB      SWT 30 ms      2.47994000 GHz



Date: 13.AUG.2008 18:59:34

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### 17.0 FCC and IC ID Label

**FCC ID: VRI-B106**

**IC ID: 7039A-WFB106**

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



FCC ID Label Location

DSC-H10 F4.0 1/13s ISO400

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## 18.0 Photo of testing

### 18.1 Conducted test View—



DSC-H10 F3.5 1/15s ISO400

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18.2 Emission Radiated test View--



DSC-H10 F8.0 1/500s ISO125



DSC-H10 F8.0 1/400s ISO125

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18.3 Photo for the EUT

Outside View



DSC-H10 F4.0 1/8s ISO400



DSC-H10 F4.0 1/8s ISO400

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DSC-H10 F4.0 1/13s ISO400



DSC-H10 F3.5 1/10s ISO400

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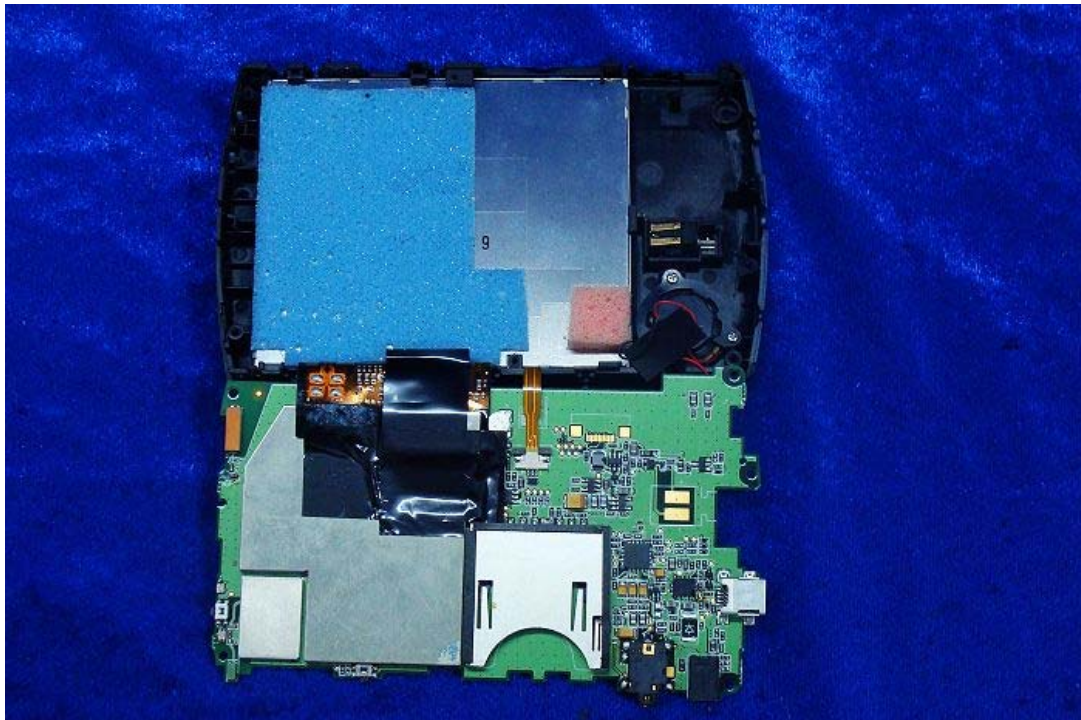




Interior View



DSC-H10 F3.5 1/40s ISO160

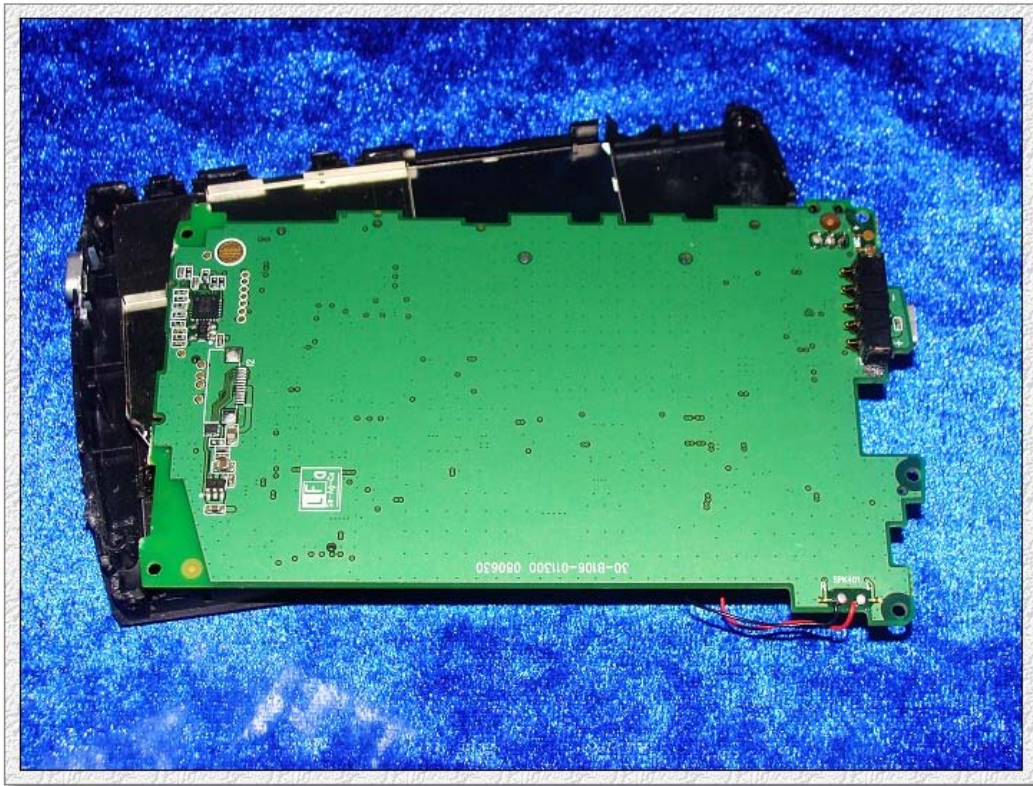


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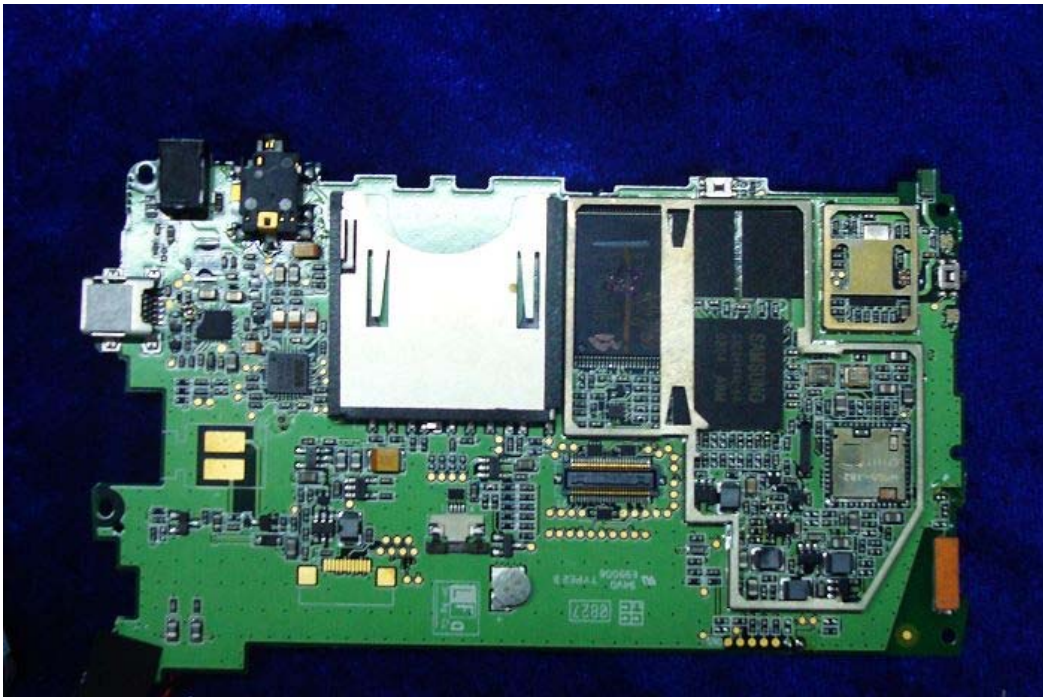




Interior View



DSC-H10 F4.0 1/50s ISO200



The report refers only to the sample tested and does not apply to the bulk.

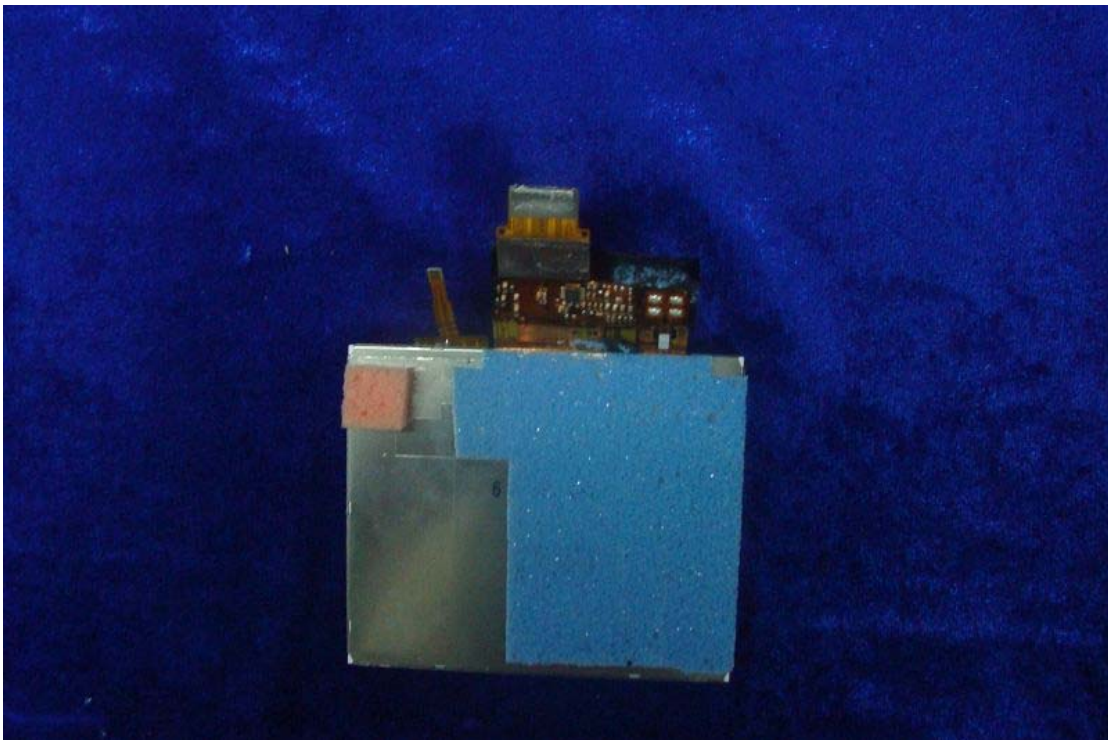
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Interior View

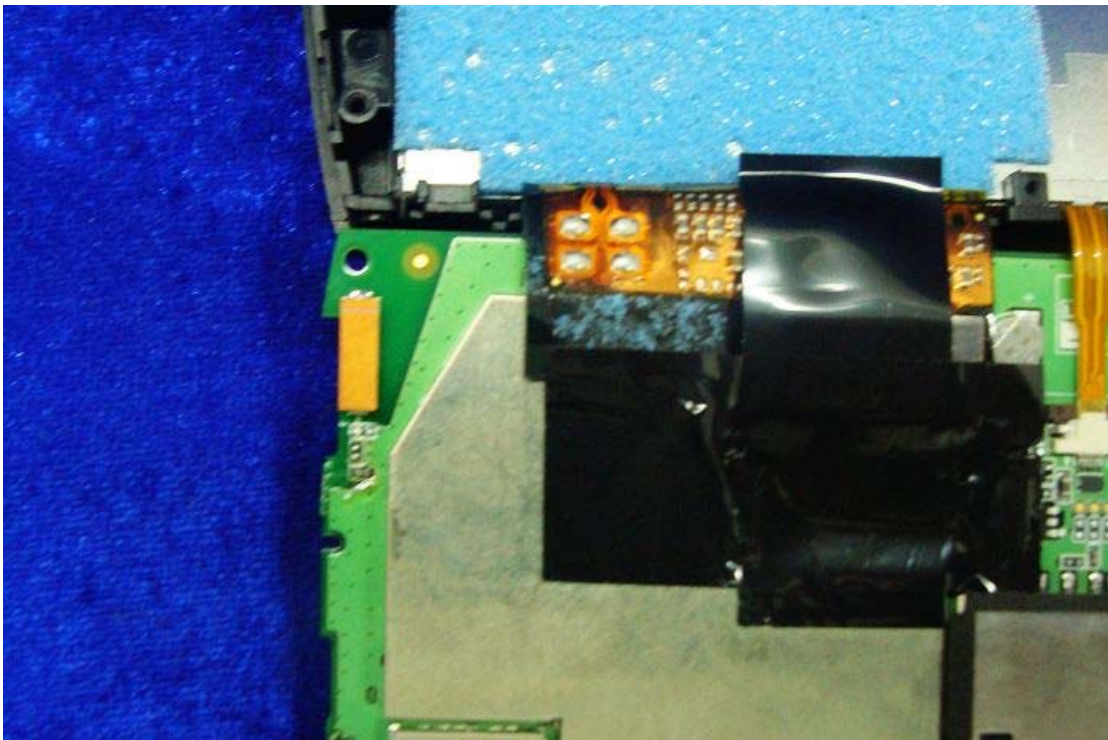


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Interior View

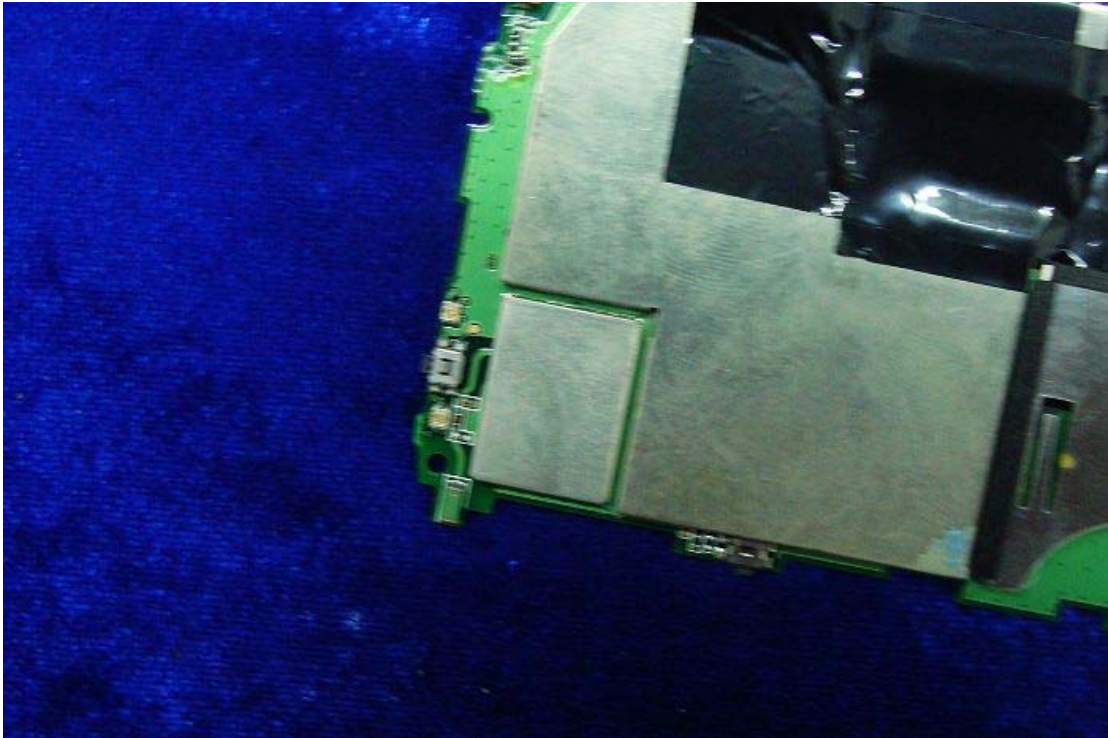


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Interior View



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Power supply: S010AU0500150



DSC-H10 F4.0 1/10s ISO400

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