



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC/IC 1009244-02
File reference No: 2010-12-16

Applicant: Group Sense Mobile-Tech Limited

Product: PDA with WiFi 802.11b/g

Model No: DT430

Trademark: Xplore

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247 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: Dec. 16.2010

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.

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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-02

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

1.0	General Details	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
2.0	List of Measurement Equipment	4
3.0	Technical Details	7
3.1	Summary of Test Results.....	7
3.2	Test Standards.....	7
4.0	EUT Modification	7
5.0	Power Line Conducted Emission Test	8
5.1	Schematics of the Test.....	8
5.2	Test Method and Test Procedure.....	8
5.3	Configuration of the EUT.....	8
5.4	EUT Operating Condition	9
5.5	Conducted Emission Limit	9
5.6	Test Result	9
6.0	Radiated Emission test	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	FCC and IC ID Label.....	72
17.0	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
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Site on File with the Federal Communications Commission – United Sates
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 th Floor, Building 9, No.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: Xplore
Model Number: DT430
Additional Model Name X-430
Additional Trade Name Pointex
Rating: Input: DC 5V; 1.5A
Power Supply S040EM1500230
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 -0.8dBi

1.4 Submitted Sample: 2 Sample

1.5 Test Duration

2010-09-20 to 2010-12-15

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

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	2010-12-04	2011-12-03
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2010-12-04	2011-12-03
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2010-12-04	2011-12-03
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2010-12-04	2011-12-03
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2010-12-04	2011-12-03
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2010-03-29	2011-03-28
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2010-02-17	2011-02-16
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2010-02-17	2011-02-16
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2010-02-17	2011-02-16
System Controller	CT	SC100	-	2010-02-17	2011-02-16
Printer	EPSON	PHOTO EX3	CFNH234850	2010-02-17	2011-02-16
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2010-02-17	2011-02-16
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2010-02-17	2011-02-16
Computer	IBM	8434	1S8434KCE99BLXL O*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2010-02-17	2011-02-16
Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-

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5K VA AC Power Source	California Instruments	5001HX	56060	2010-02-17	2011-02-16
CDN	EM TEST	CDN M2/M3	-	2010-02-17	2011-02-16
Attenuation	EM TEST	ATT6/75	-	2010-02-17	2011-02-16
Resistance	EM TEST	R100	-	2010-02-17	2011-02-16
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2010-02-17	2011-02-16
Inductive Components	EM TEST	MC2630	-	2010-02-17	2011-02-16
Antenna	EM TEST	MS100	-	2010-02-17	2011-02-16
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2010-02-17	2011-02-16
Power Amplifier	AR	150W1000	300999	2010-02-17	2011-02-16
Field probe	Holaday	HI-6005	105152	2010-02-17	2011-02-16
Bilog Antenna	Chase	CBL6111C	2576	2010-02-17	2011-02-16
Loop Antenna	EMCO	6502	00042960	2010-02-17	2011-02-16
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2010-02-17	2011-02-16
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2010-08-14	2011-08-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2010-07-03	2011-07-02
Power meter	Anritsu	ML2487A	6K00003613	2010-02-17	2011-02-16
Power sensor	Anritsu	MA2491A	32263	2010-02-17	2011-02-16
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2010-05-14	2011-05-13
3m OATS	--	--	N/A	2010-02-17	2011-02-16

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3.0 Technical Details

3.1 Summary of test results

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

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247 and Part15B

4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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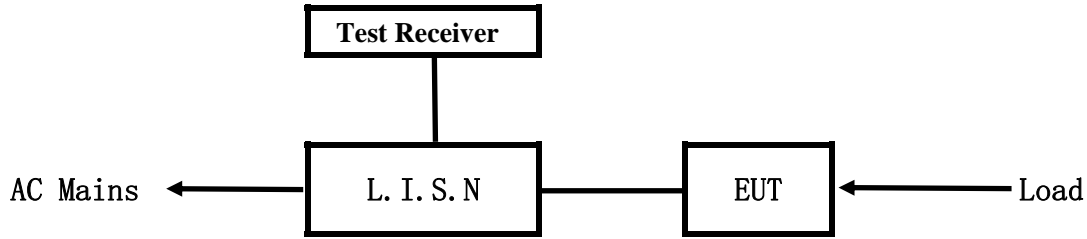
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

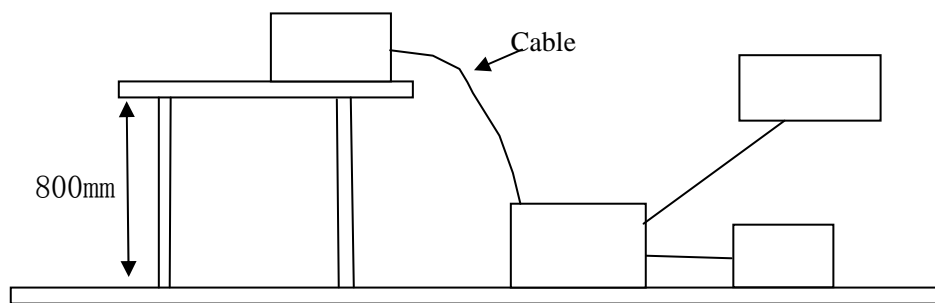


EUT: Equipment Under Test

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	DT430	VRI-B134

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 μ V)		Class B Limits (dB μ 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.

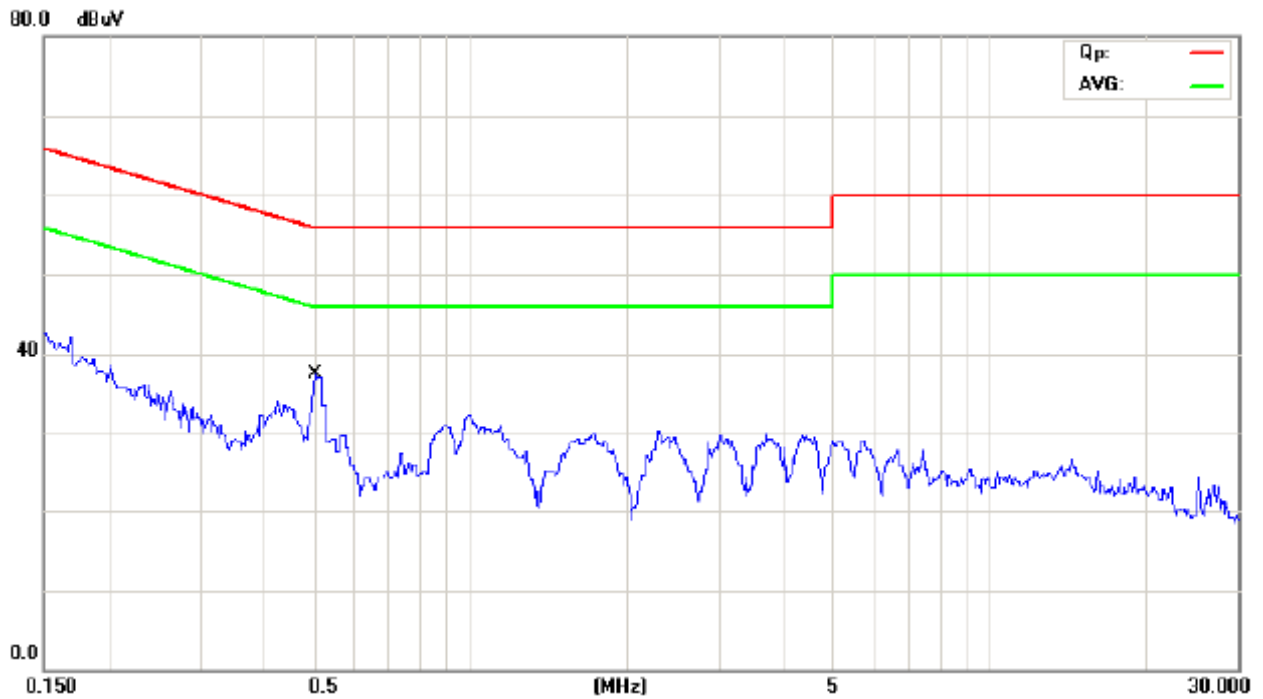
Note: the worse cases was selected to conducted the test



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

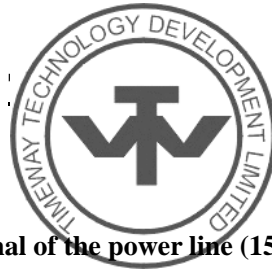
EUT set Condition: Keep EUT Transmitting under Bluetooth mode
 Power supply model: S040EM1500230
 Test Voltage: 230V~, 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB µ V)				Limit (dB µ V)	
	Neutral		Line		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.4980	35.75	30.07	--	--	56.03	46.03

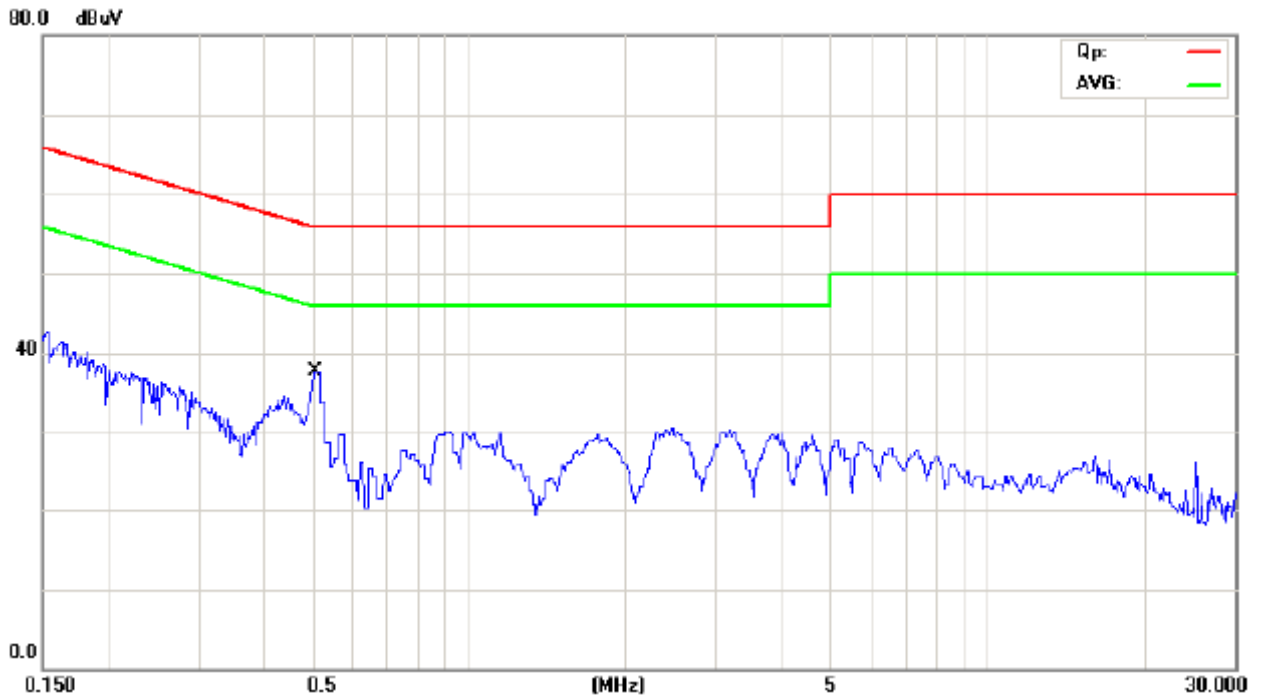
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D Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

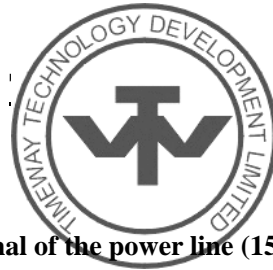
EUT set Condition: Keep EUT Transmitting under Bluetooth mode
 Power supply model S040EM1500230
 Test Voltage: 230V~, 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Neutral		Line		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.5091	--	--	37.98	32.78	56.00	46.00

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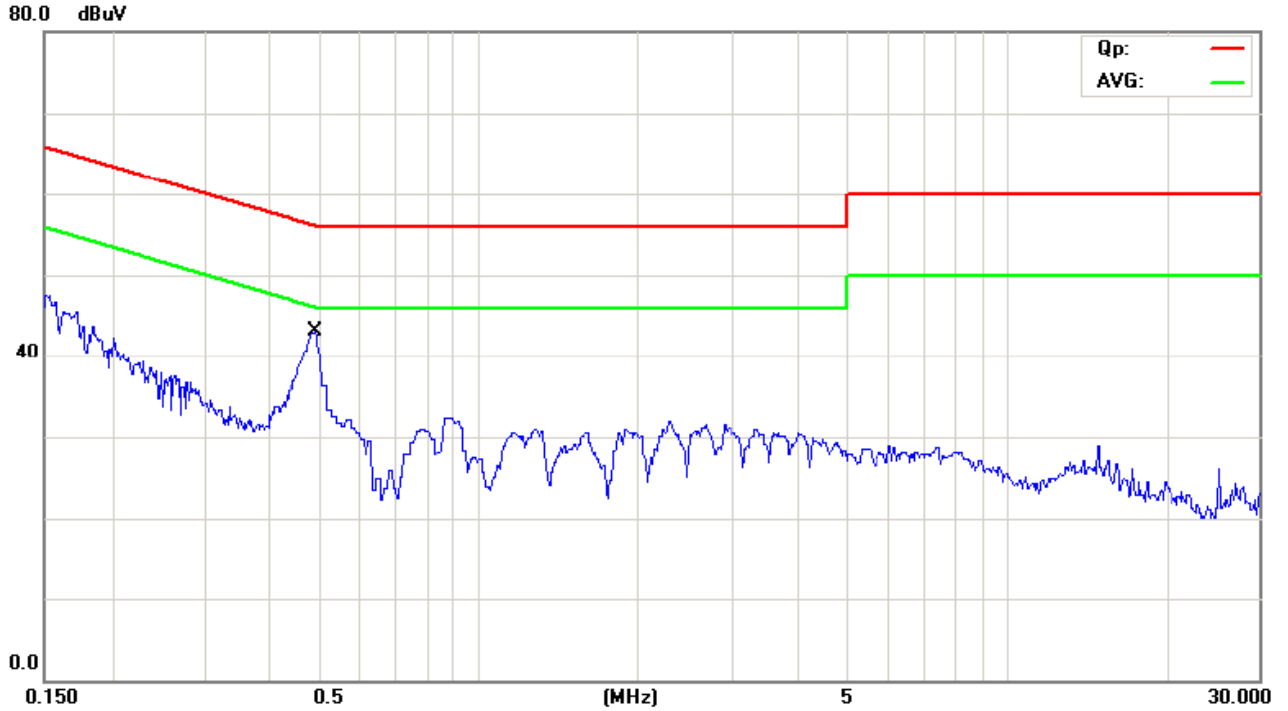


C Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral		Quasi-peak Average	
	Quasi-peak	Average	Quasi-peak	Average		
0.4842	43.75	38.52	--	--	56.27	46.27

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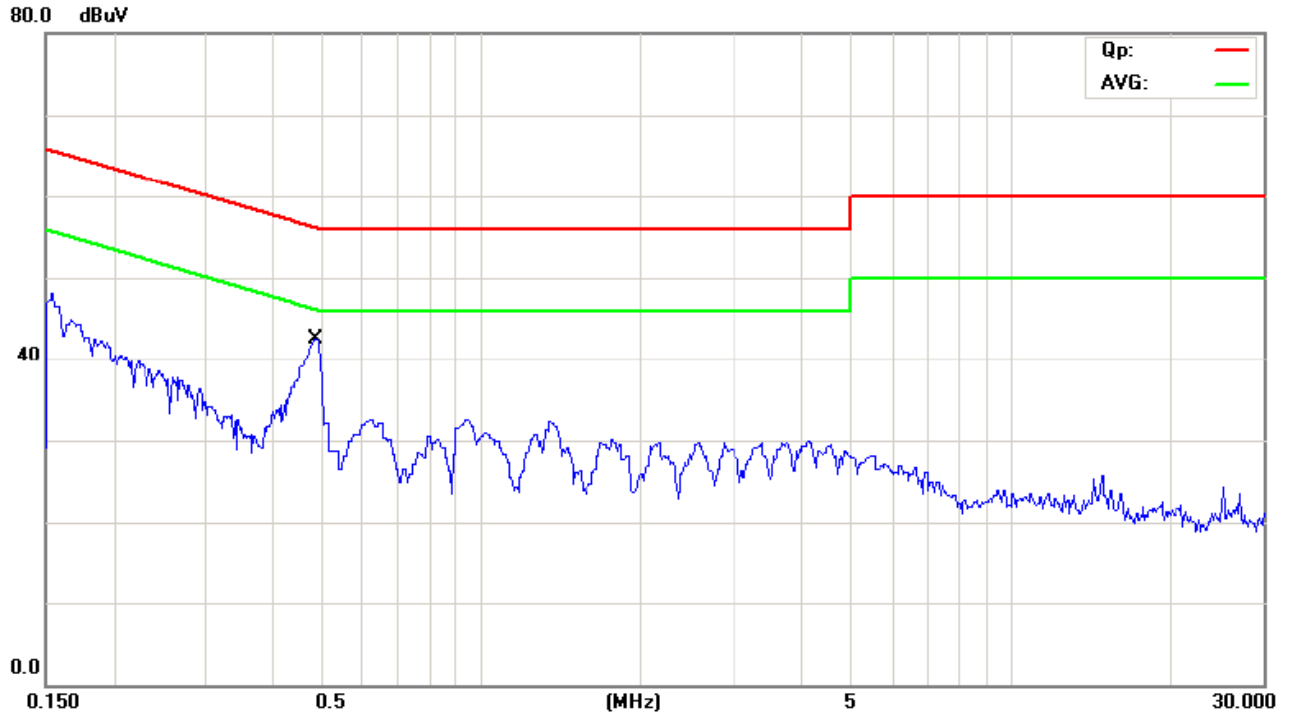


D Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB µ V)				Limit (dB µ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.4850	--	--	42.85	35.95	56.25	46.25

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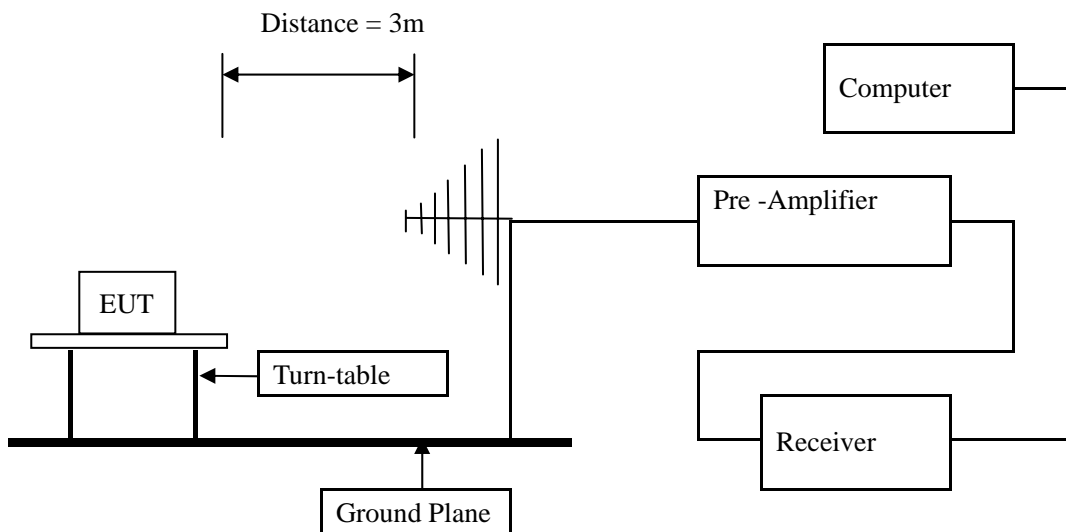


6 Radiated Emission Test

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 μ 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 (μ 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



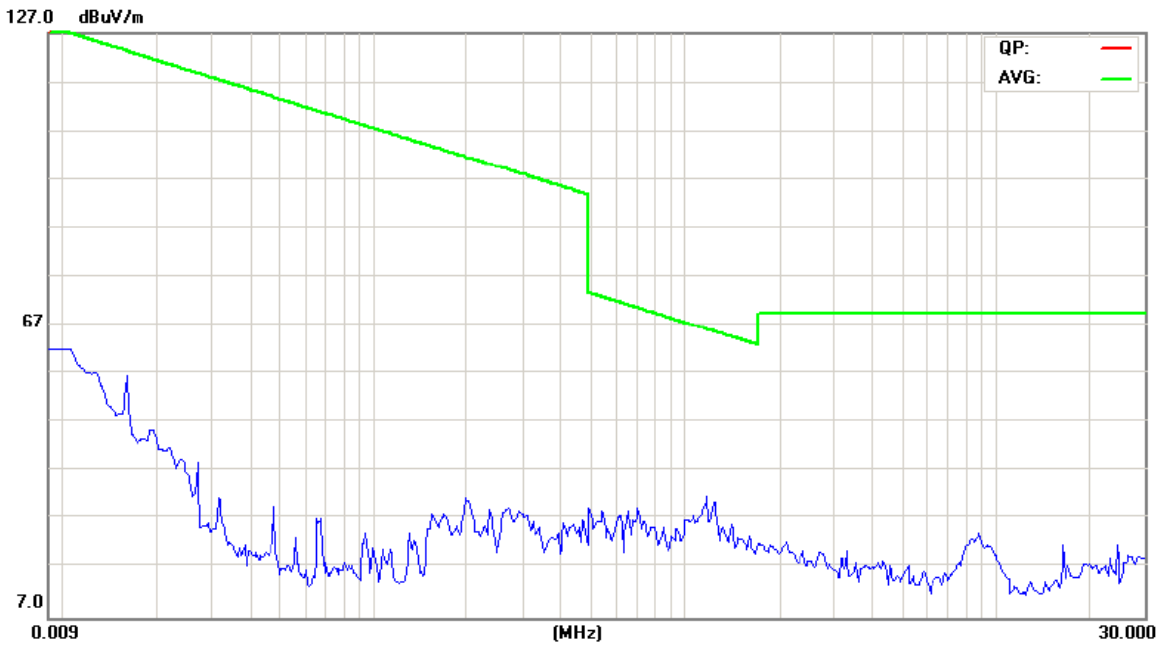
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (0.009MHz----30MHz)

EUT set Condition: Transmitting (Low CH)

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
--	--	--

-The test data shows much less than the limit, no necessary take down the records.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Transmitting mode

Results: Pass

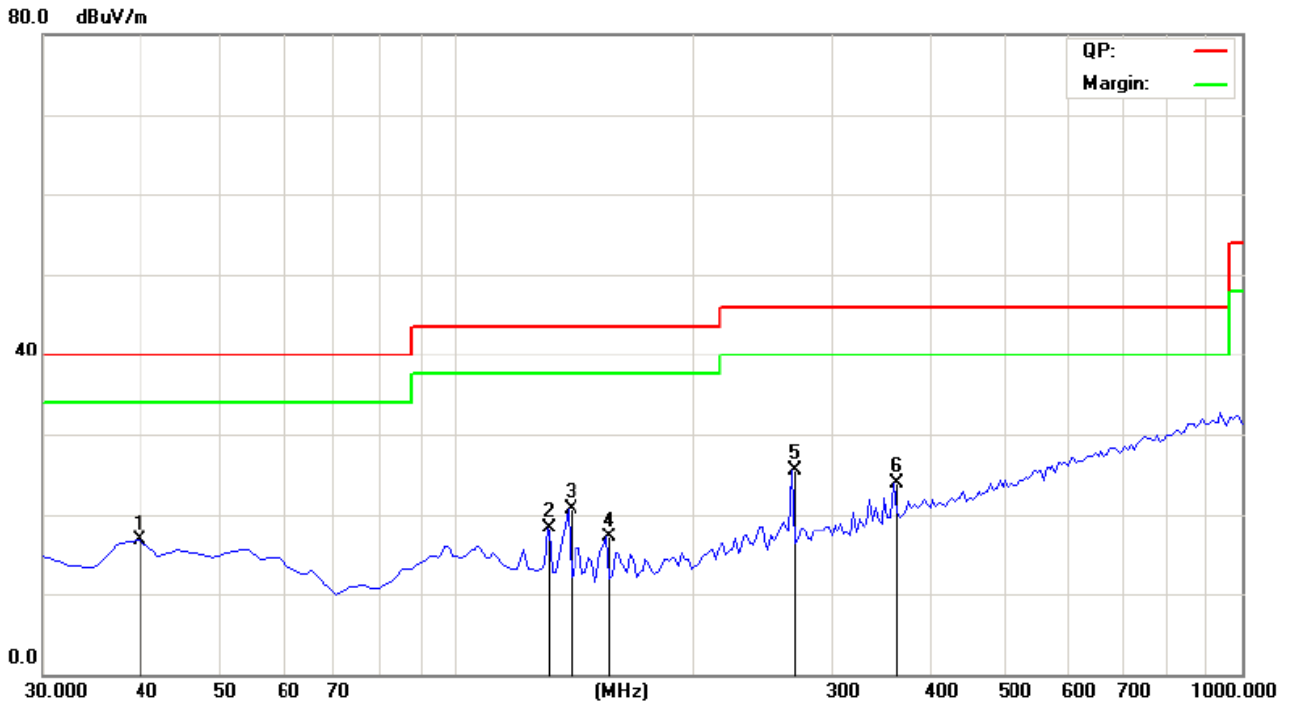
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
131.8500	25.71Ver	V	43.50
139.1250	26.75Ver	V	43.50
153.6750	23.29Ver	V	43.50
270.0750	26.58Ver	V	46.00
413.1500	28.87Ver	V	46.00
536.8250	31.73Ver	V	46.00
39.7164	16.70Hor	H	40.00
131.8500	18.30Hor	H	43.50
139.1250	20.77Hor	H	43.50
156.1000	17.13Hor	H	43.50
270.0750	25.50Hor	H	46.00
362.2250	23.99Hor	H	46.00

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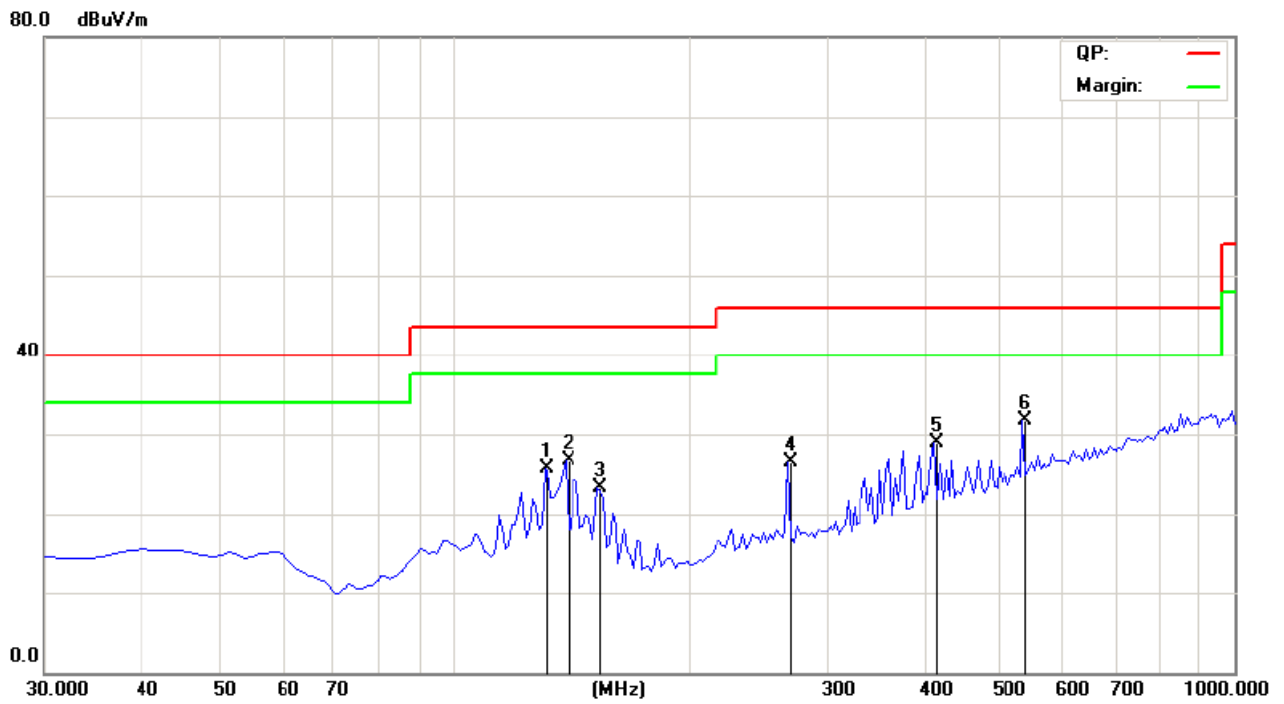


Test Figure: Transmitting mode

H



V



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EUT set Condition: PC Mode

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
68.8000	24.66	H	40.00
131.8500	31.33	H	43.50
270.0750	36.20	H	46.00
291.9000	37.15	H	46.00
340.4000	34.30	H	46.00
434.9750	35.95	H	46.00
66.3750	22.25	V	40.00
139.1250	27.46	V	43.50
153.6750	27.18	V	43.50
270.0750	31.39	V	46.00
396.1750	28.13	V	46.00
536.8250	31.41	V	46.00

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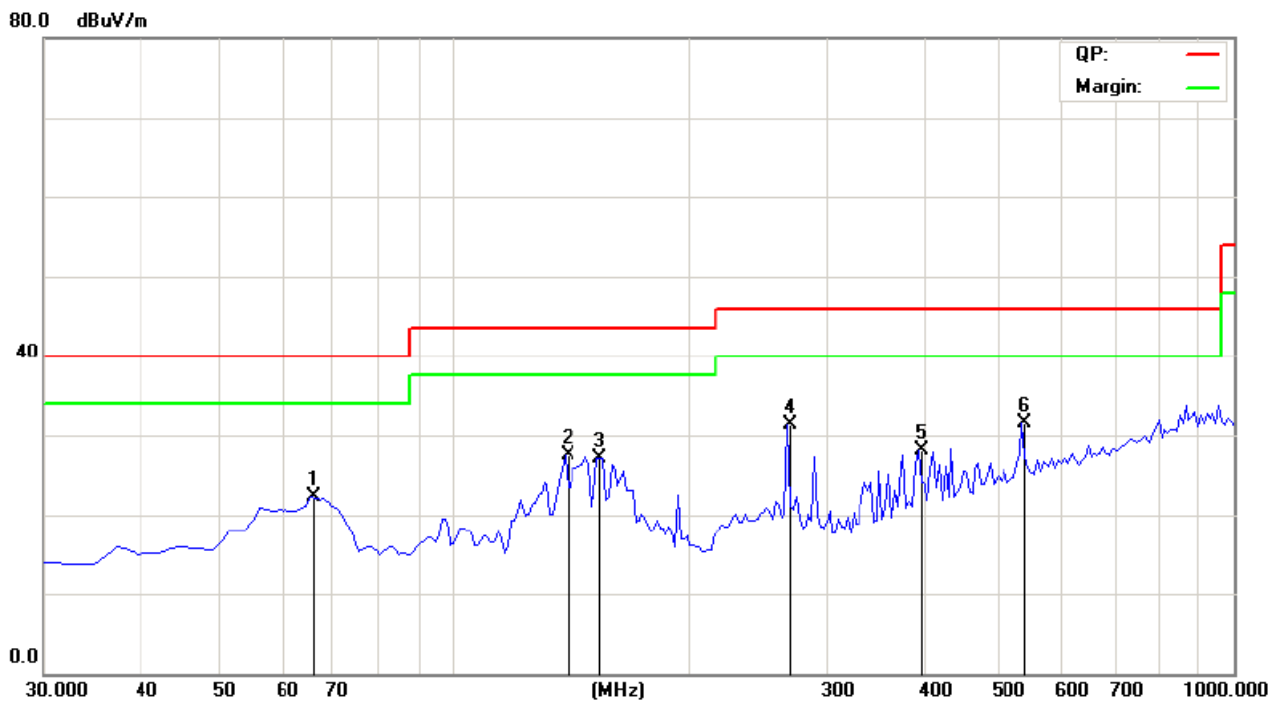
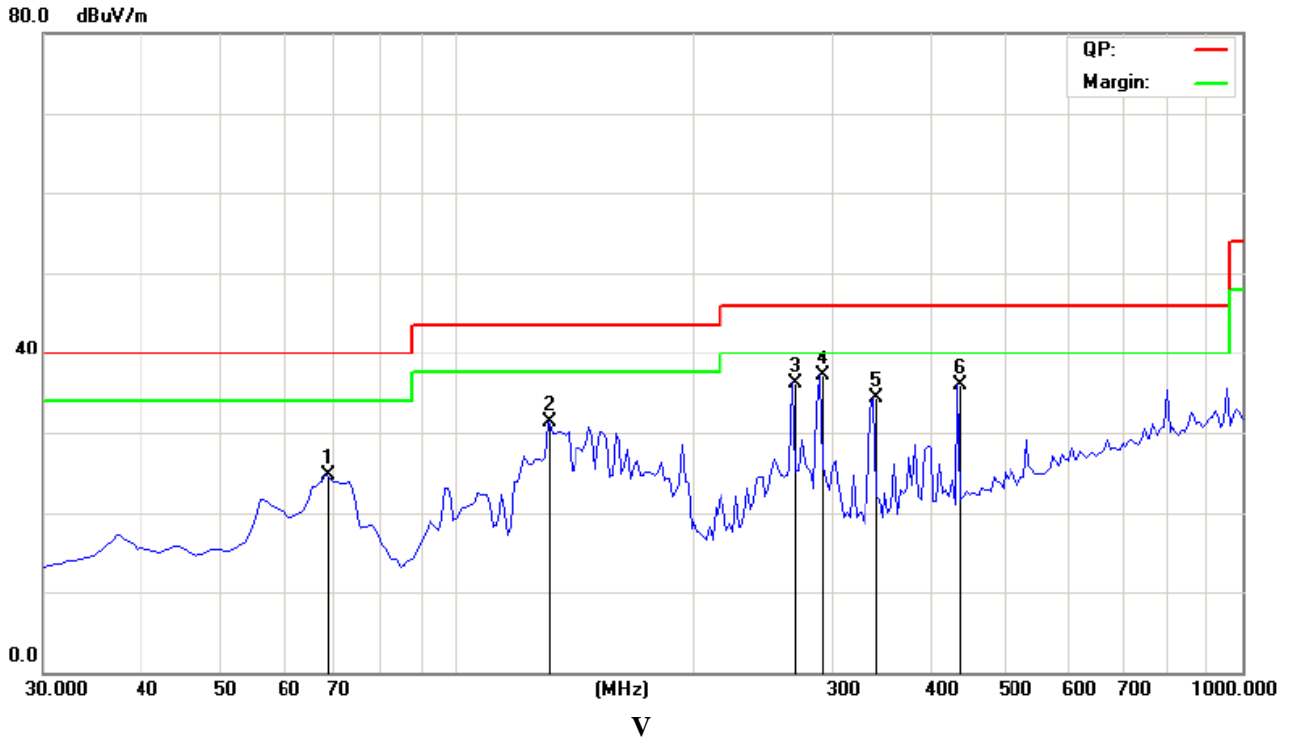
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Test Figure: Receiving mode

H



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Operation Mode: Transmitting under Low Channel (2402MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2402	83.1 (PK)	H	Fundamental Frequency
2402	87.8 (PK)	V	
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 μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2441	88.2 (PK)	V	Fundamental Frequency
2441	83.6 (PK)	H	
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 μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2480	89.4 (PK)	V	Fundamental Frequency
2480	84.2 (PK)	H	
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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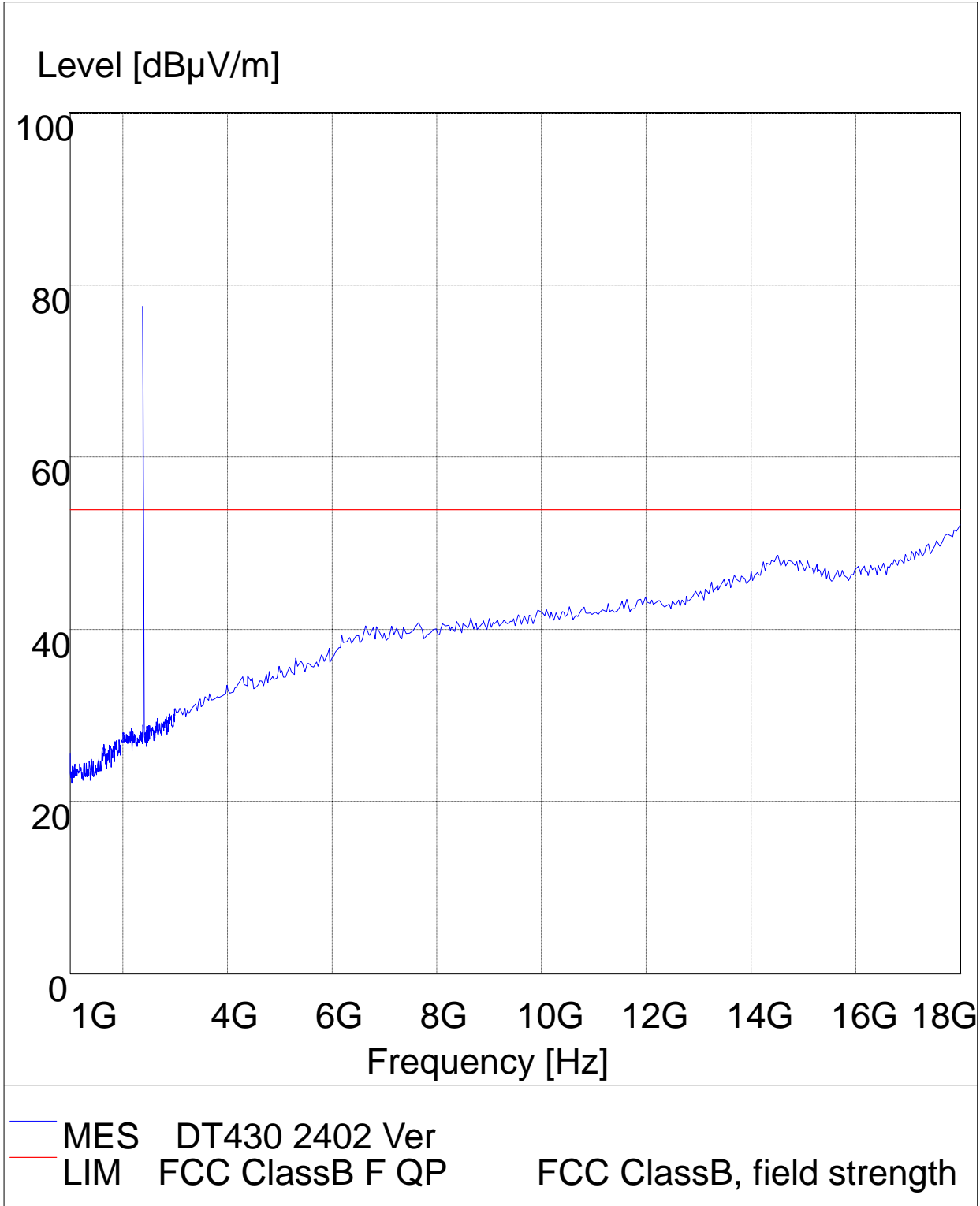
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Please refer to the following test plots for details:

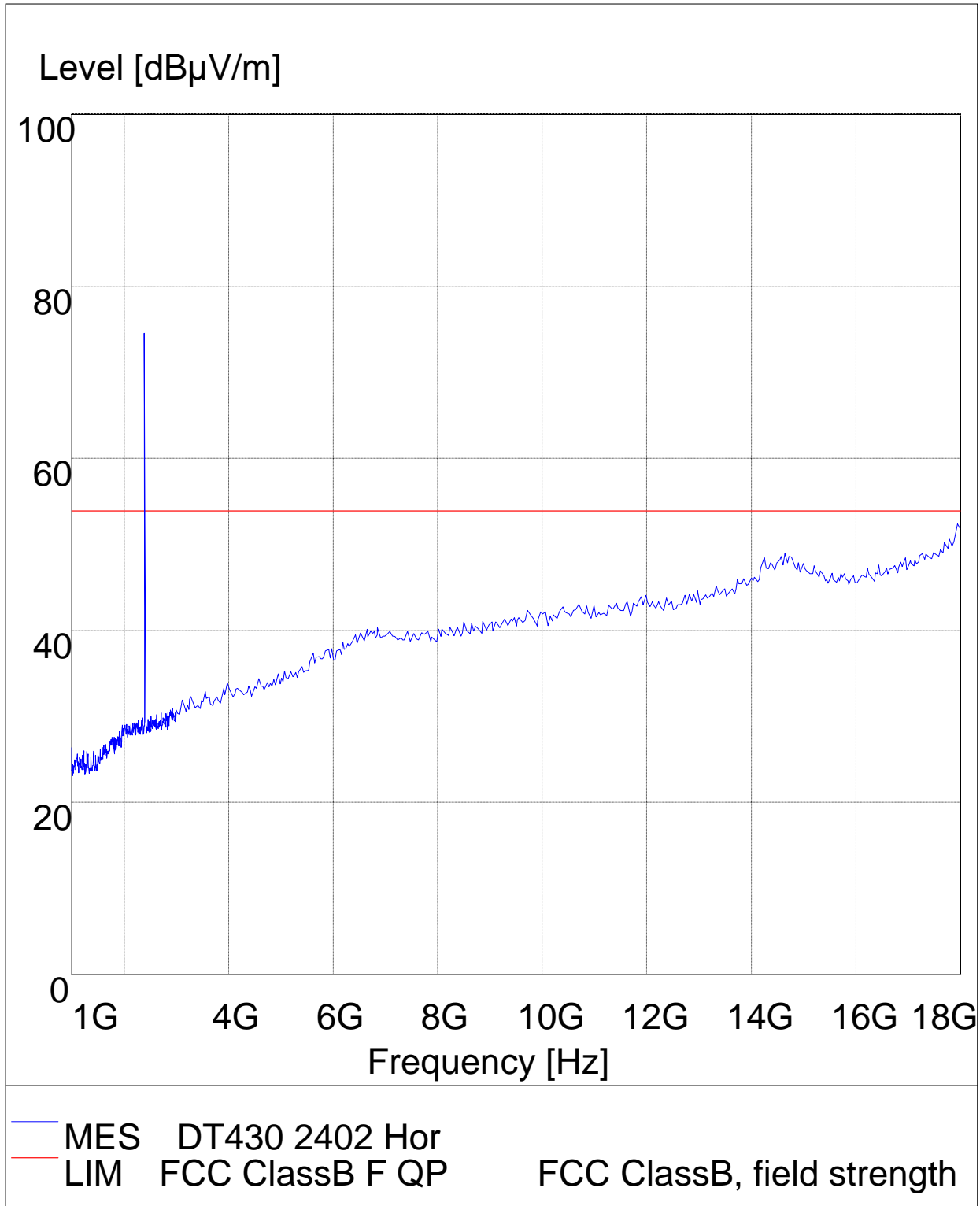
Low Channel: Vertical



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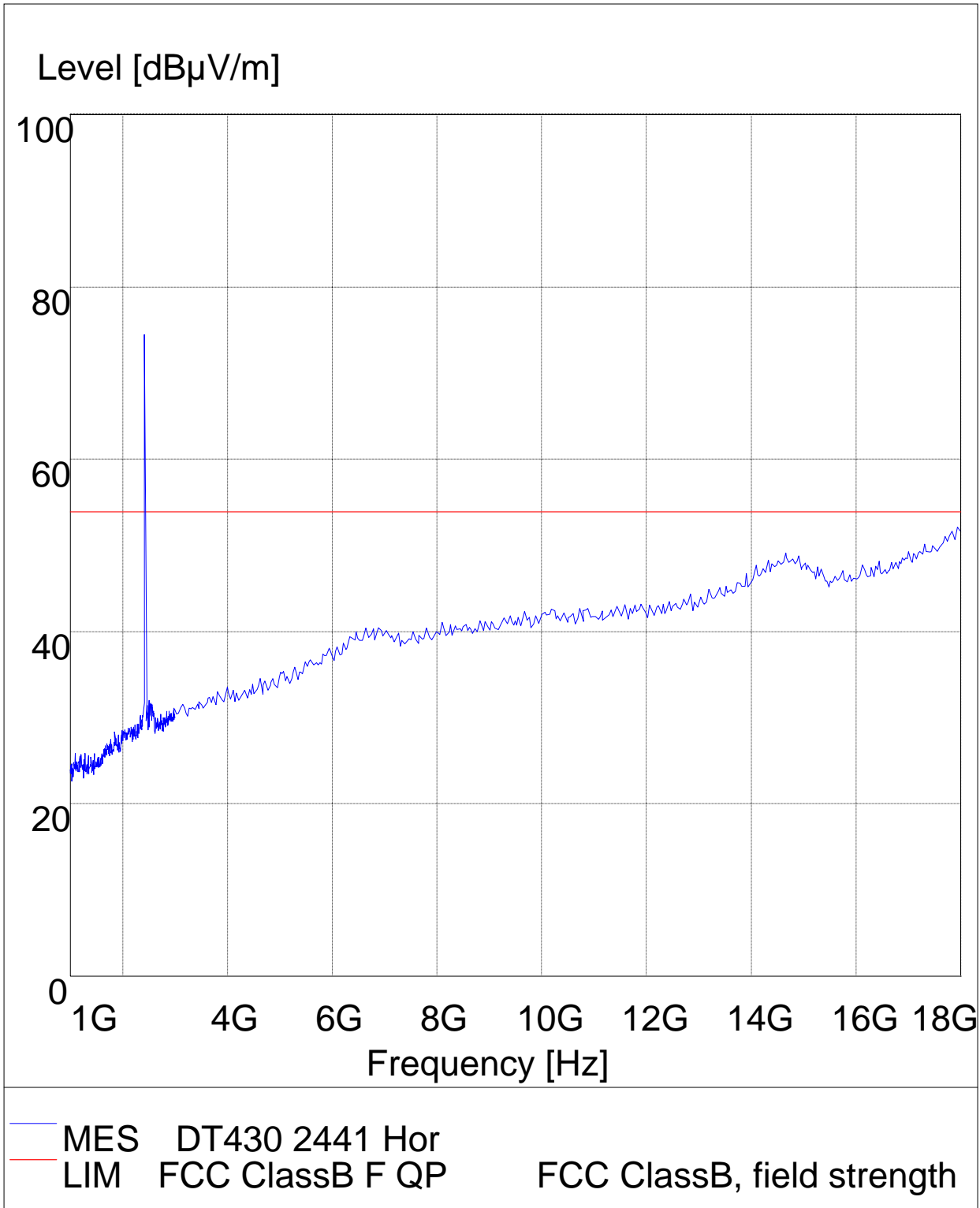
Low Channel : Horizontal



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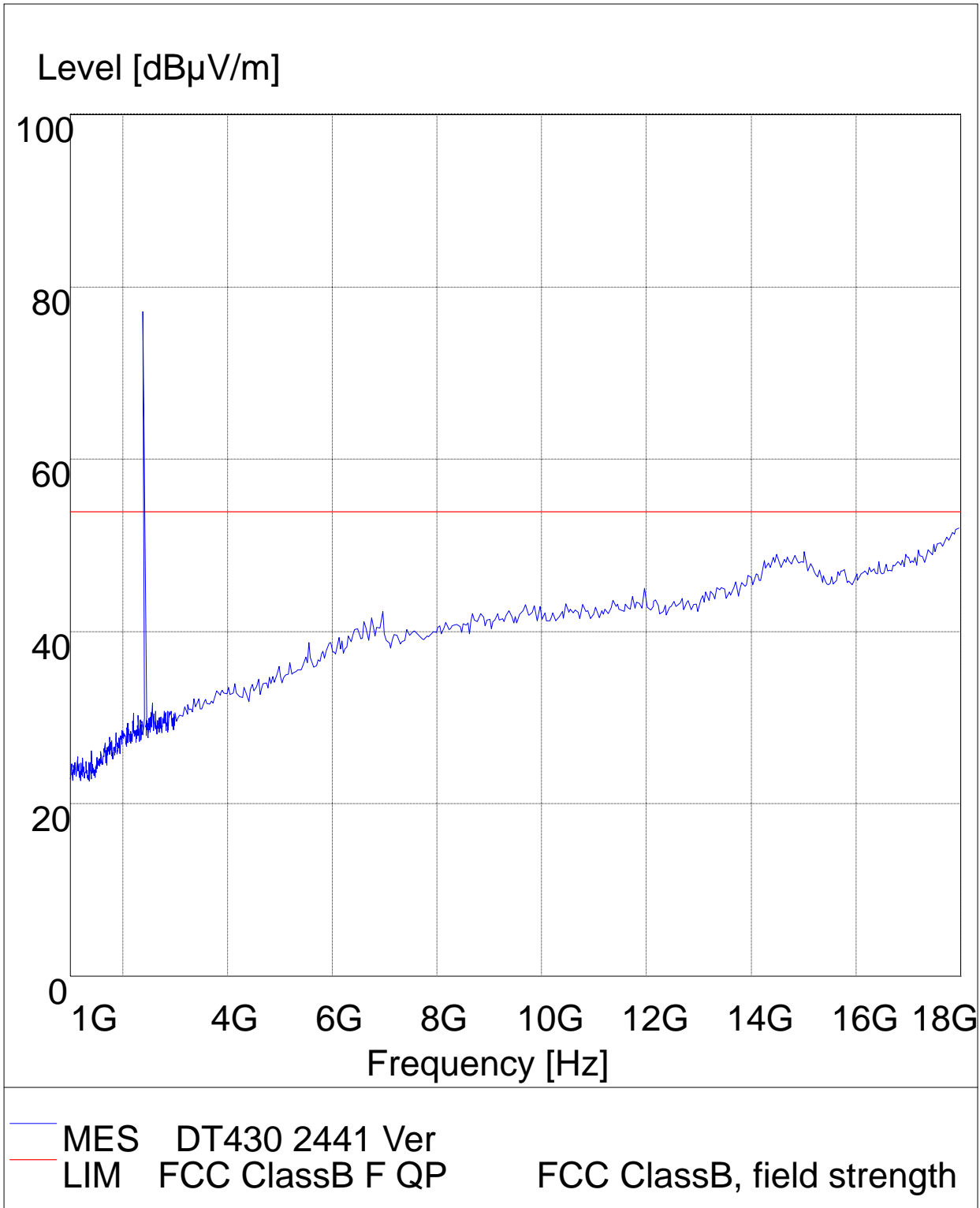
Middle Channel : Horizontal



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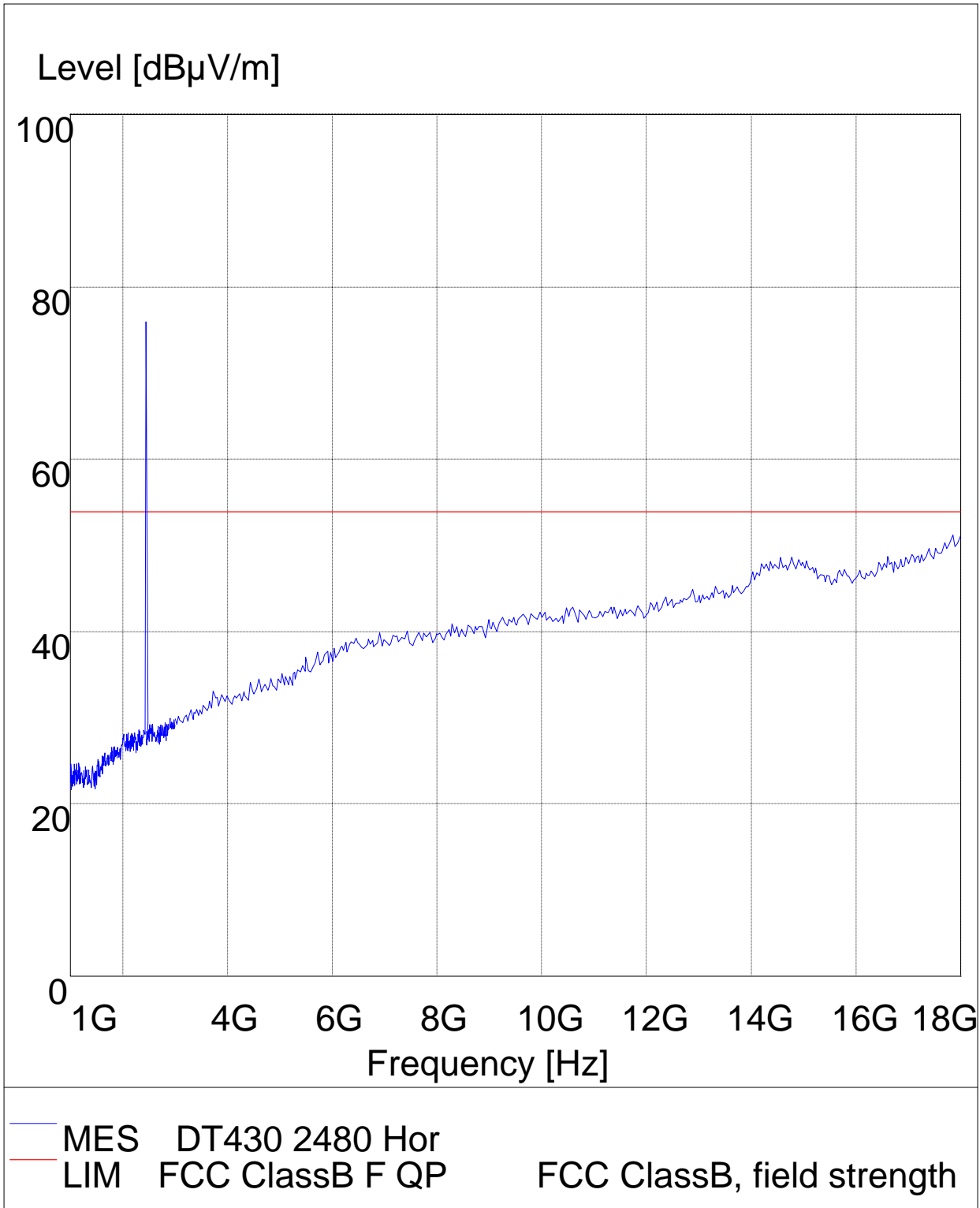
Middle Channel :: Vertical



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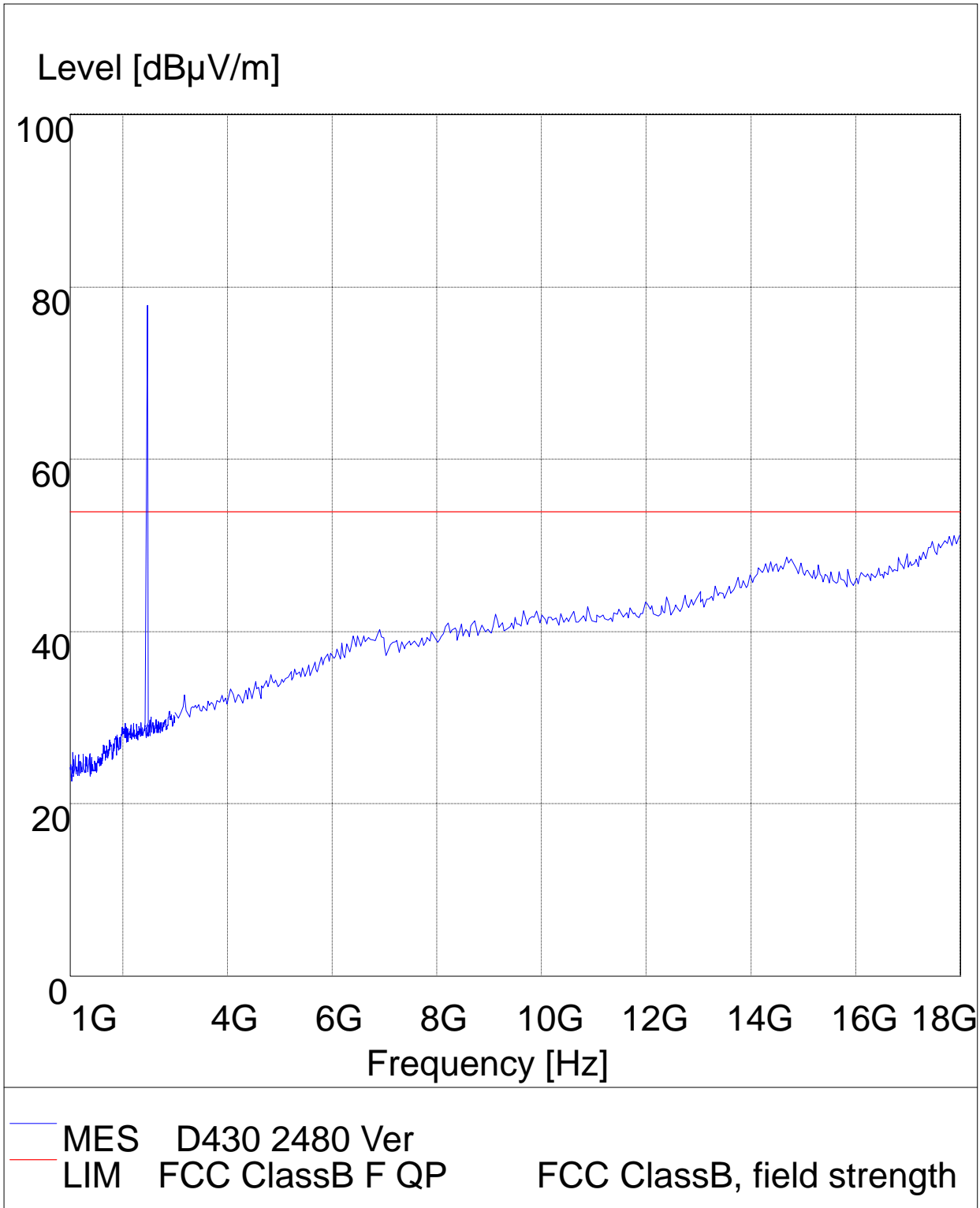
High Channel : Horizontal



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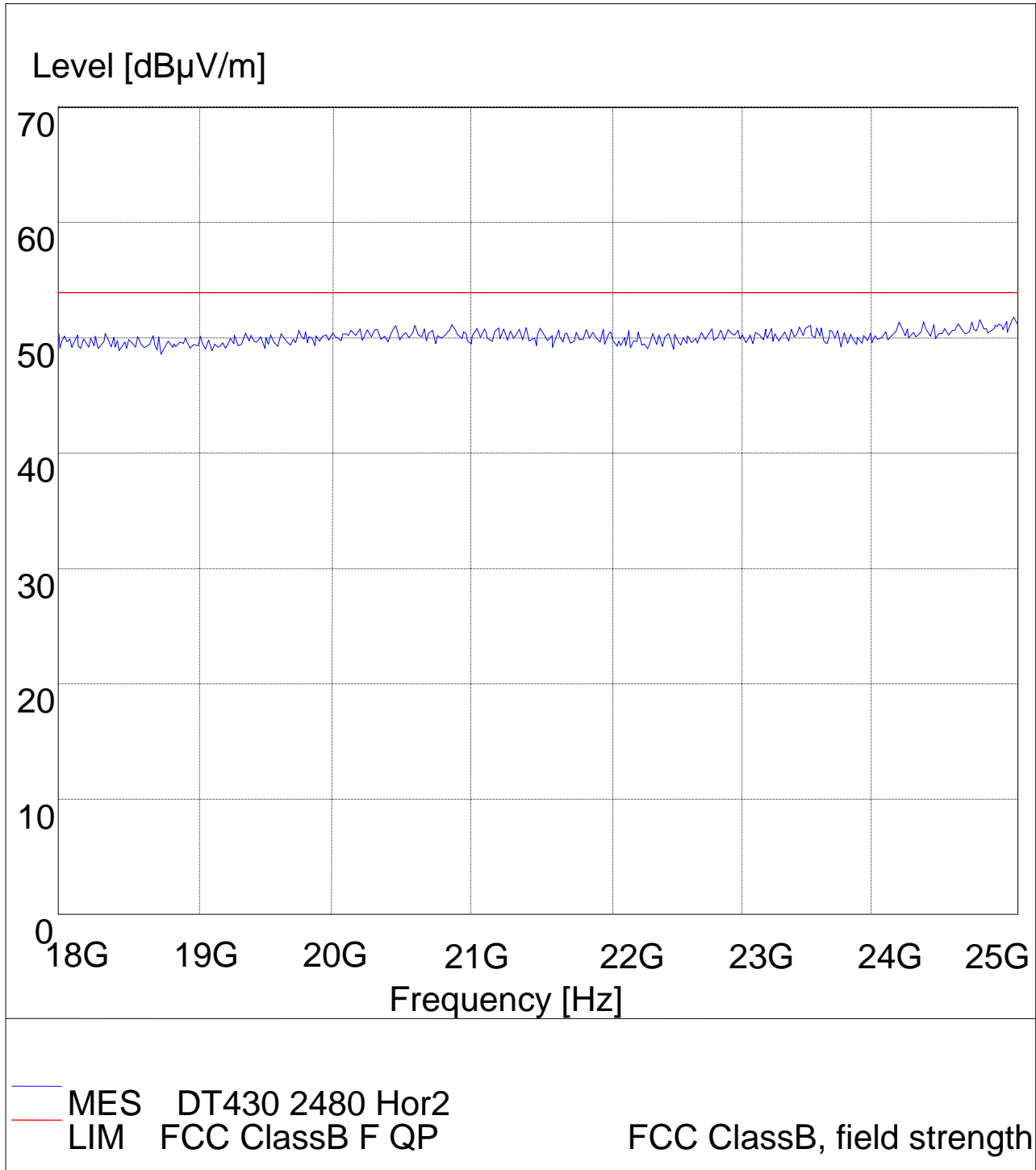
High Channel : Vertical



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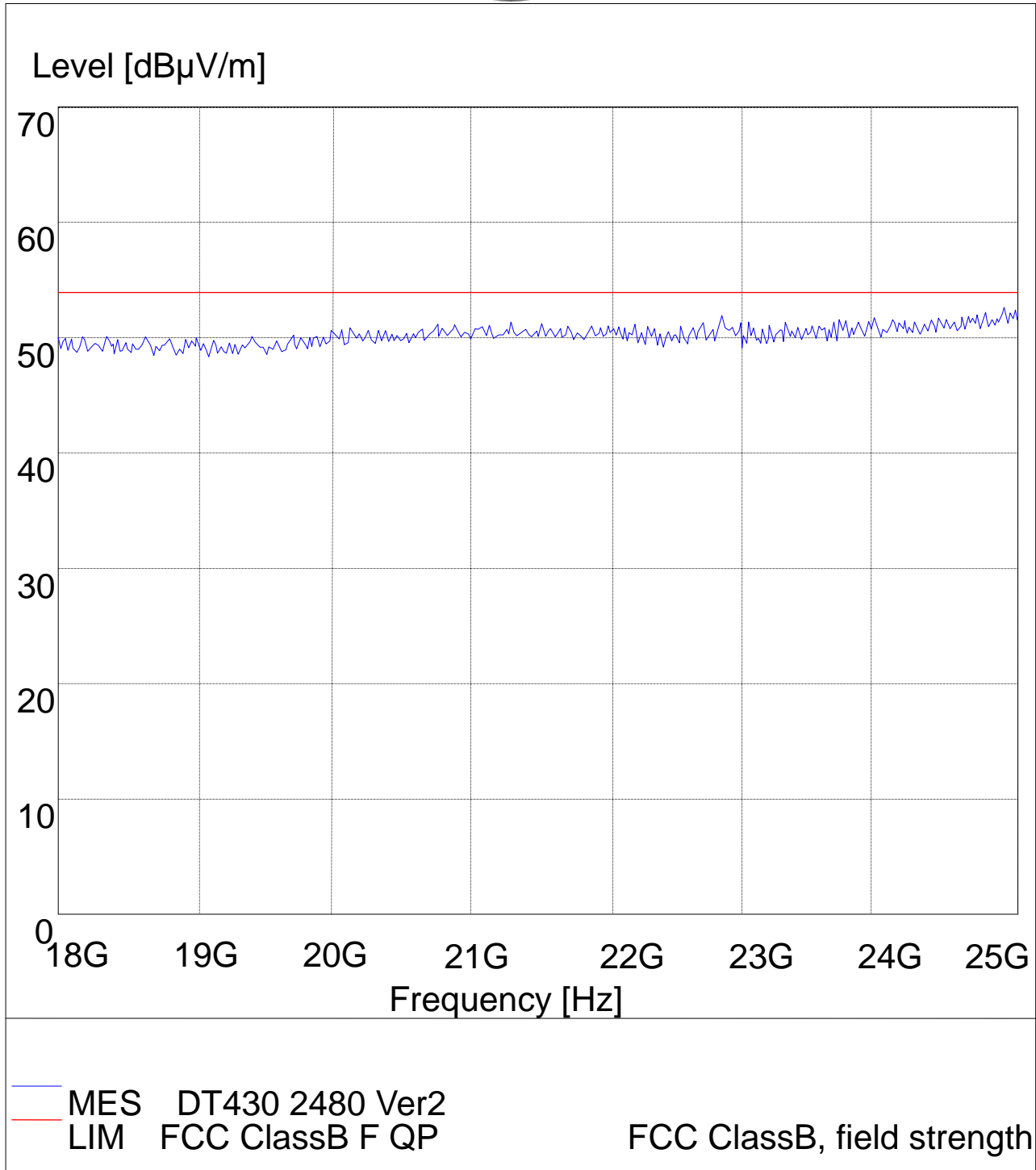
18-25G Horizontal High Channel



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18-25G Vertical High Channel



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7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

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 =5MHz, VBW = RBW=100kHz, 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	DT430	
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	1132.26	--	Pass	
Middle	2441	1132.26	--	Pass	
High	2480	1132.26	--	Pass	

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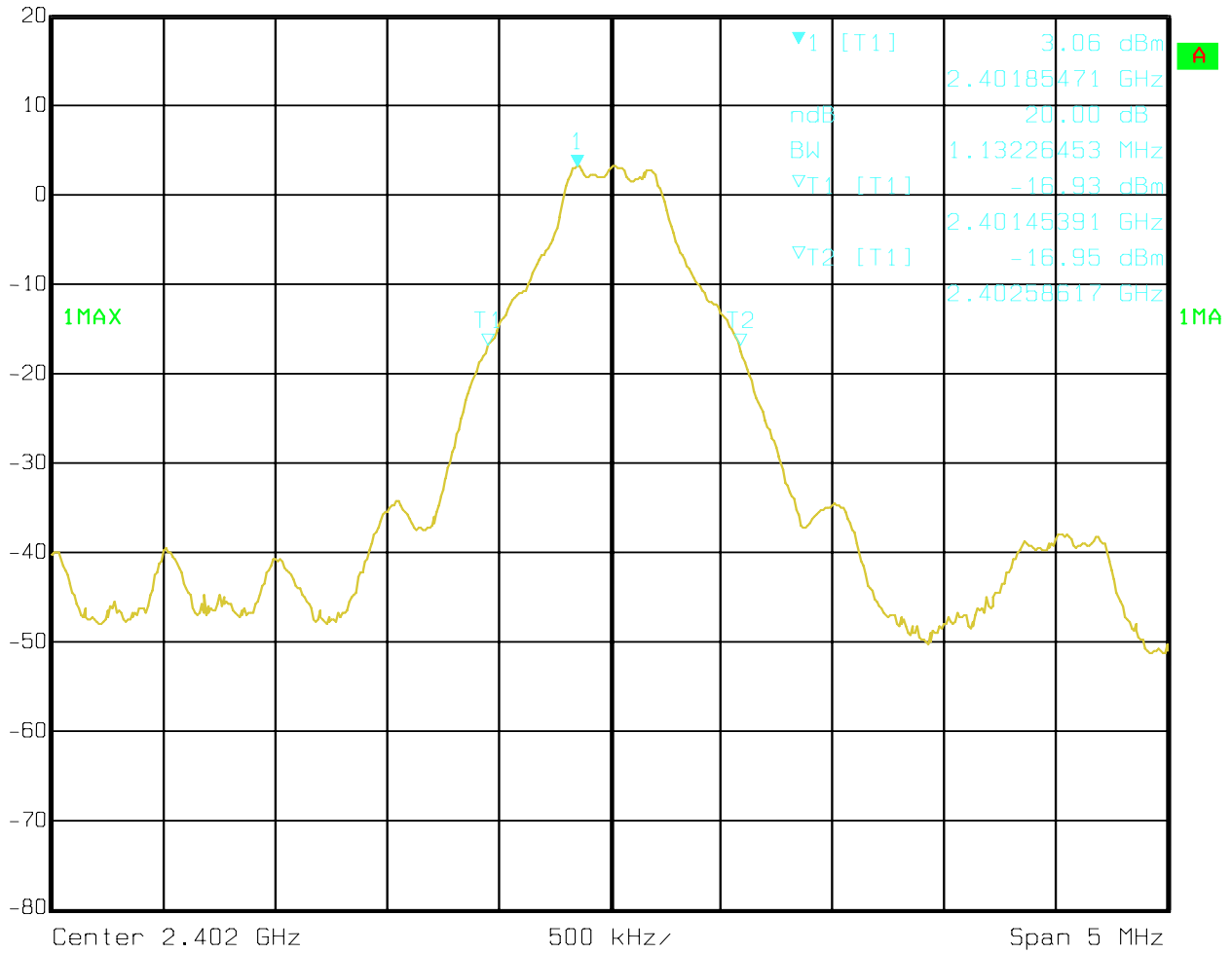
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Test Figure:

1. Condition: Low Channel

	Marker 1 [T1 ndB]	RBW	100 kHz	RF Att	30 dB
	Ref Lvl	ndB	20.00 dB	VBW	100 kHz
	20 dBm	BW	1.13226453 MHz	SWT	5 ms
				Unit	dBm



Date: 09.SEP.2010 13:38:25

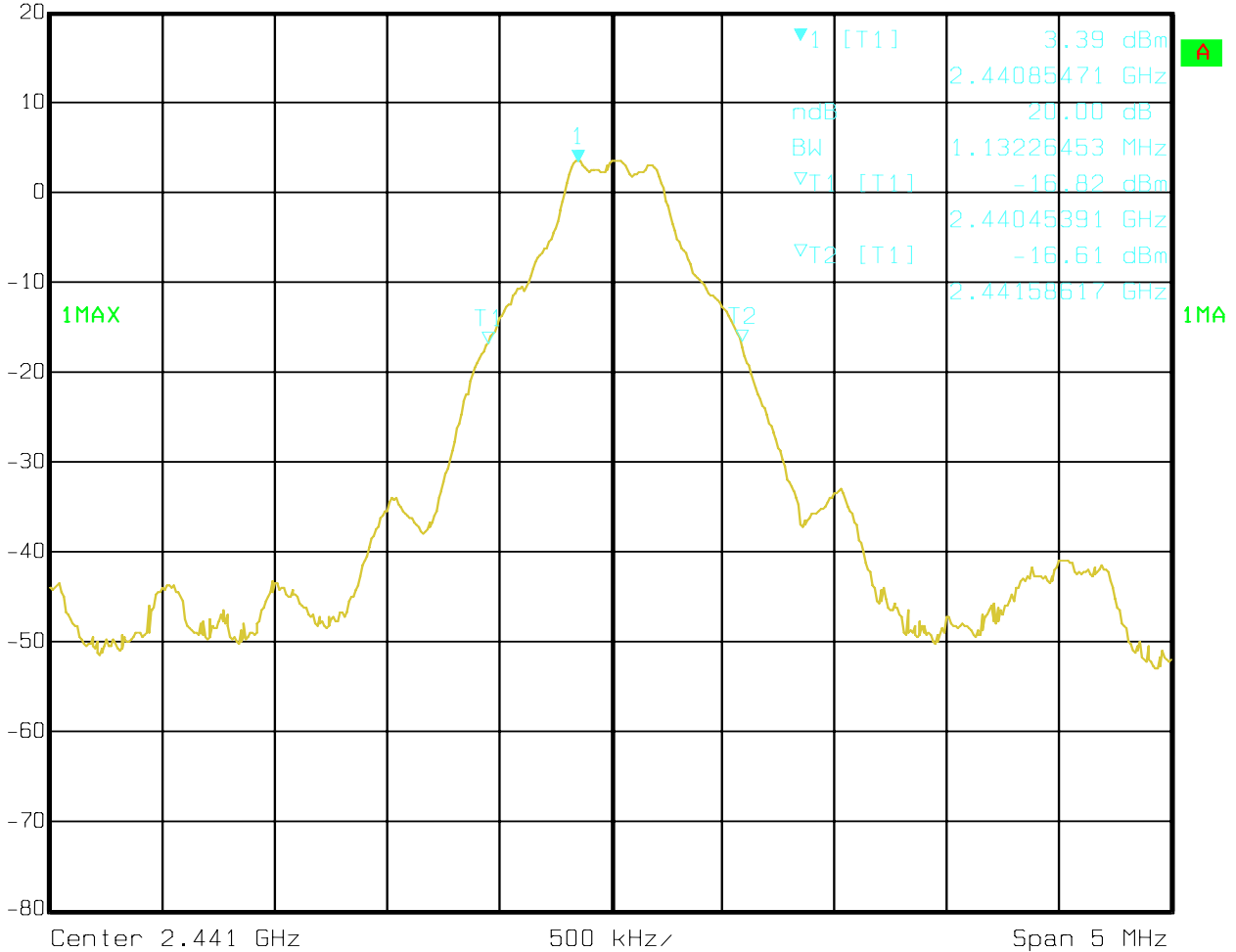
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2. Condition: Middle Channel



Ref Lvl	Marker 1 [T1 ndB]	RBW	100 kHz	RF Att	30 dB
20 dBm	ndB 20.00 dB	VBW	100 kHz		
	BW 1.13226453 MHz	SWT	5 ms	Unit	dBm



Date: 09.SEP.2010 13:39:48

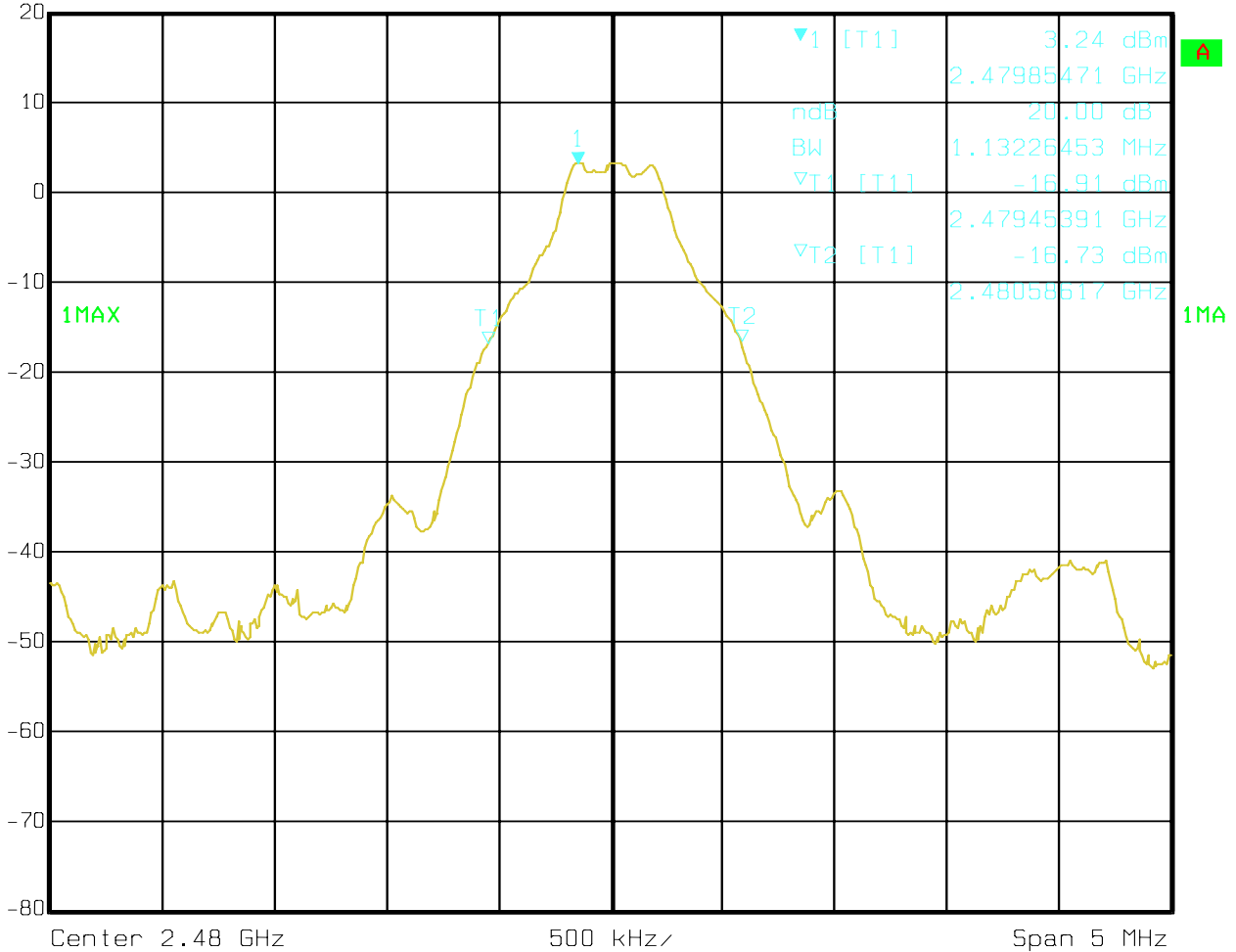
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3. High Channel



Ref Lvl 20 dBm
 Marker 1 [T1 ndB] 20.00 dB
 RBW 100 kHz
 RF Att 30 dB
 VBW 100 kHz
 BW 1.13226453 MHz
 SWT 5 ms
 Unit dBm



Date: 09.SEP.2010 13:41:11

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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	DT430	
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	2.94	30	Pass	
Middle	2441	3.21	30	Pass	
High	2480	3.02	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. Carrier Frequency Separation

9.1 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.

9.2 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.

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 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.

9.4 Test Result

EUT	PDA with WiFi 802.11b/g		Model	DT430
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

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

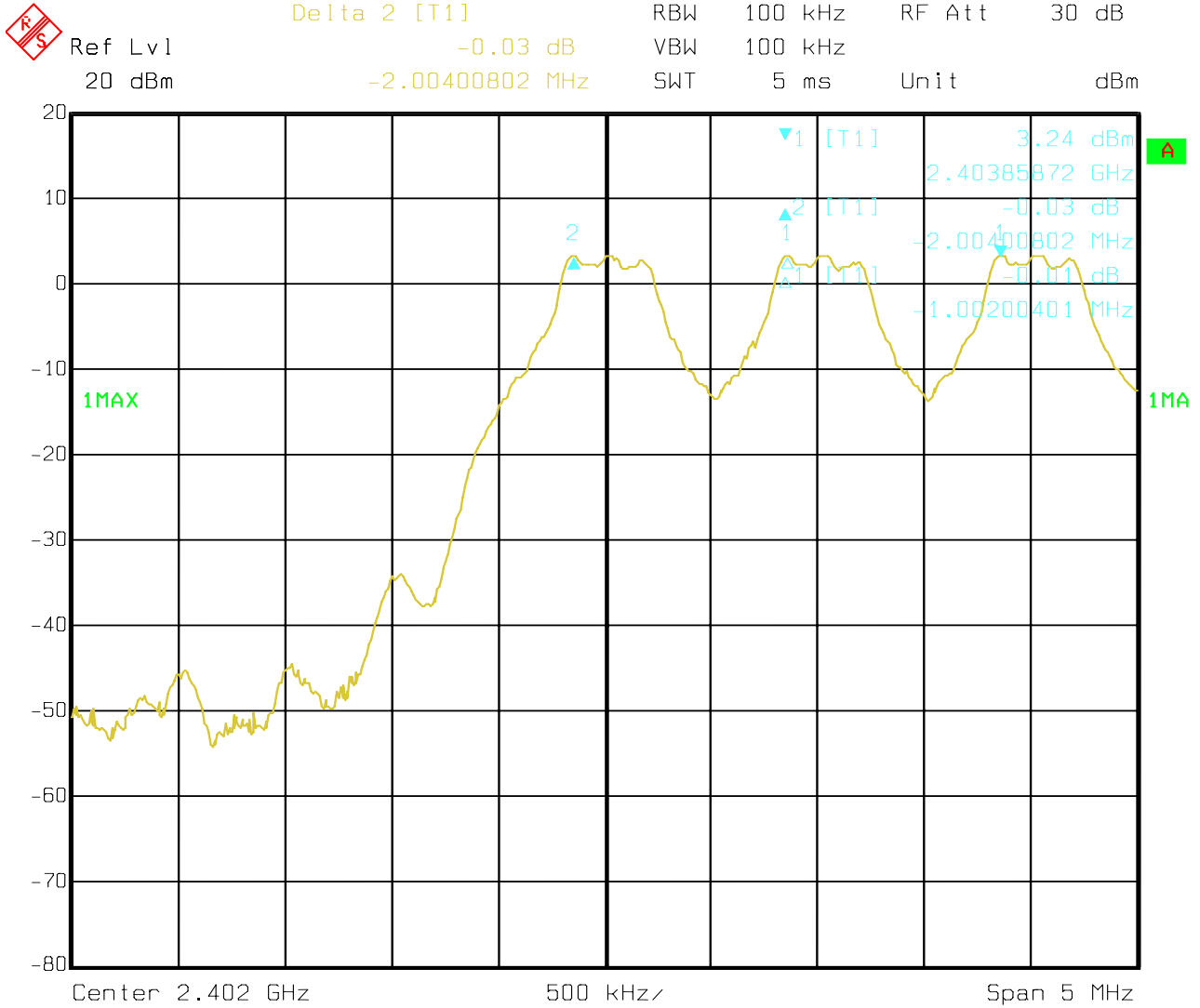
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Test Plots

Middle Channel



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10. Number of Hopping Channels

10.1 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.

10.2 Limits of Number of Hopping Channels

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

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 = 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.

10.4 Test Result

EUT	PDA with WiFi 802.11b/g	Model	DT430
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	≥ 15	Pass

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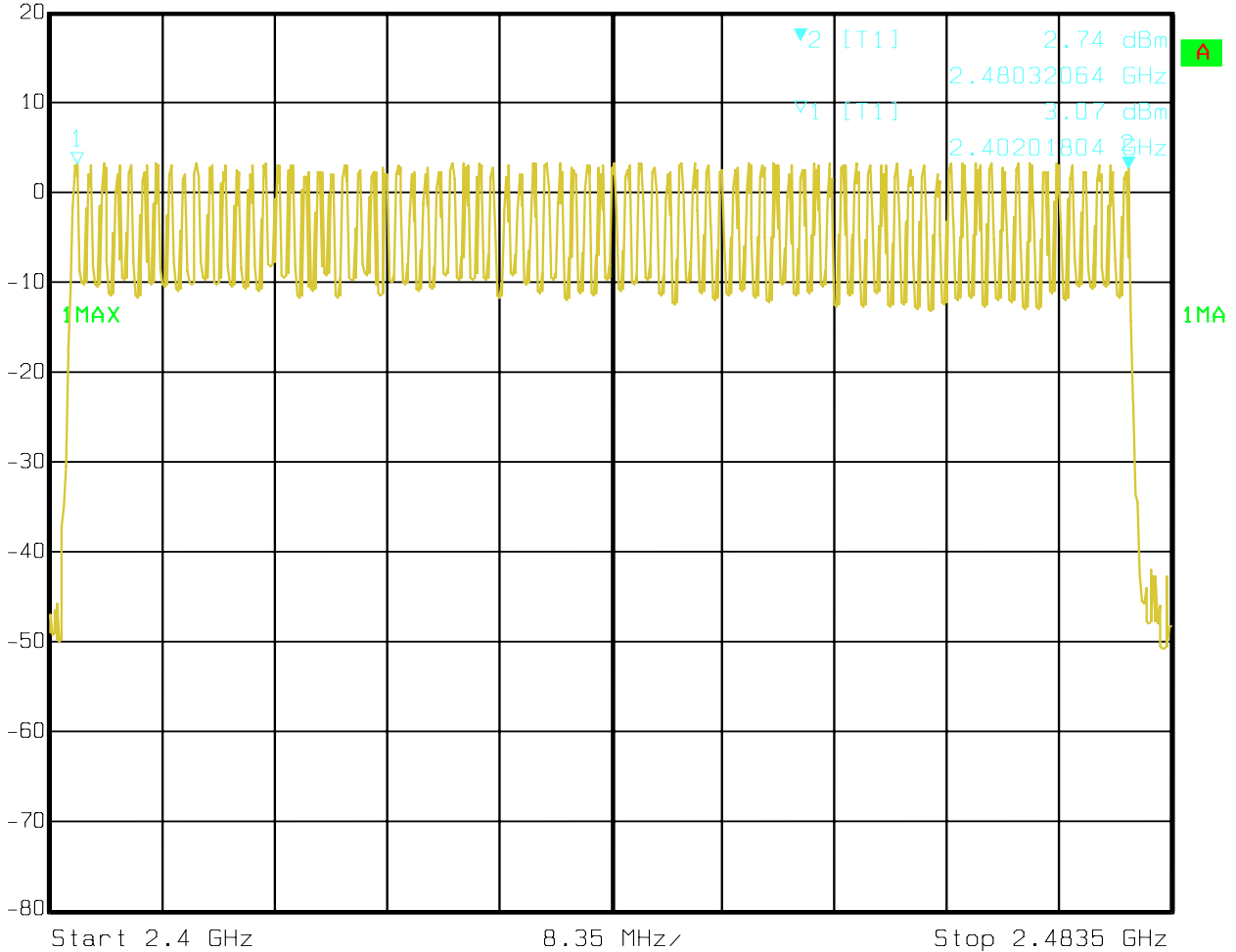
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Test Plot



Marker 2 [T1] RBW 100 kHz RF Att 30 dB
2.74 dBm VBW 100 kHz
20 dBm 2.48032064 GHz SWT 21 ms Unit dBm



Date: 09.SEP.2010 11:49:17

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11. Time of Occupancy (Dwell Time)

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.

11.2 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

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 = 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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11.4 Test Result

EUT	PDA with WiFi 802.11b/g		Model	DT430
Mode	Keeping Transmitting		Input Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Reading	Hopping Rate	Actual	Limit
Low	2.9659	266.667 hop/s	0.32	0.4s
Middle	2.9198	266.667 hop/s	0.31	0.4s
High	2.9579	266.667 hop/s	0.32	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.

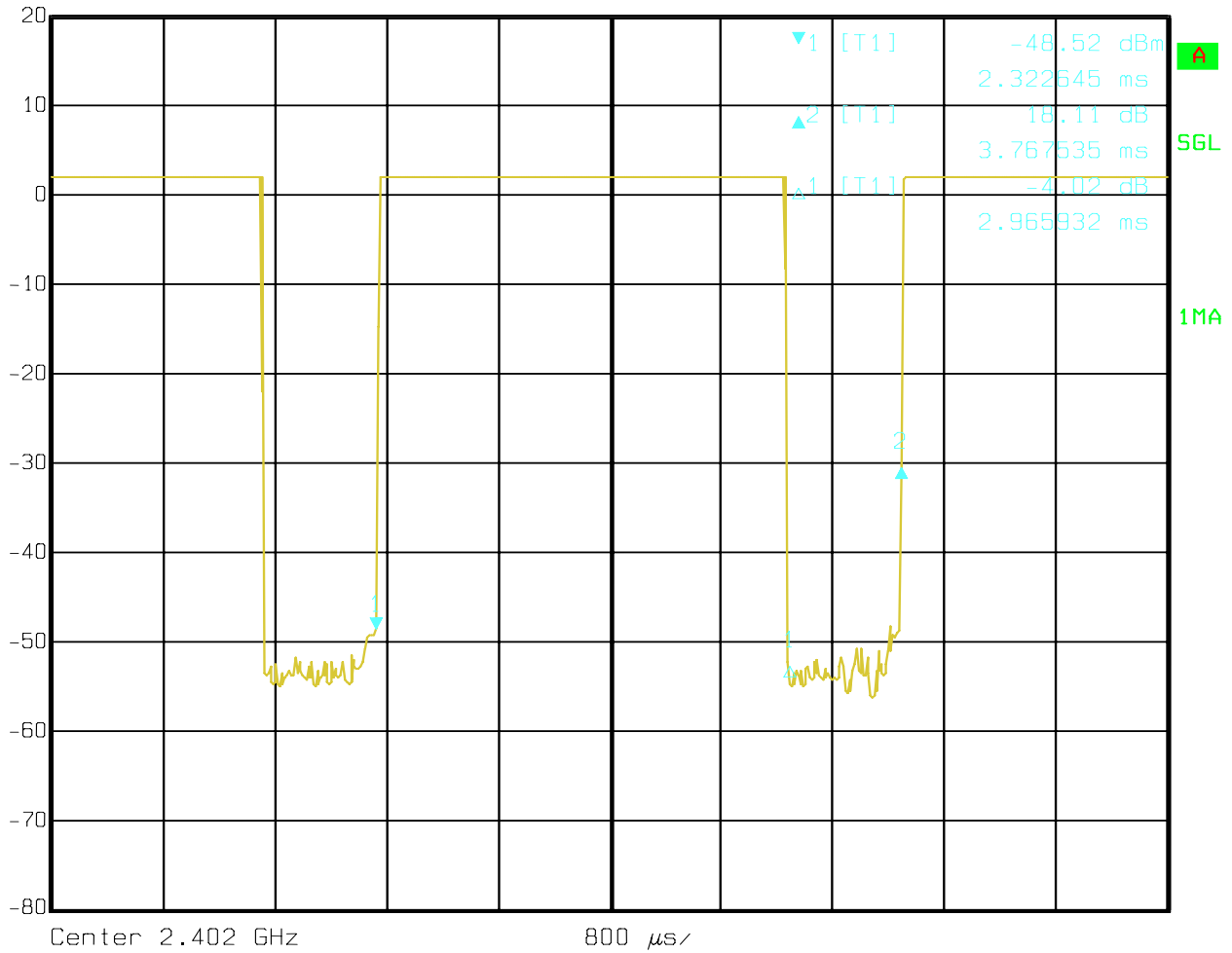
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Test Plots:

Low Channel: DH5 (Under test mode)

RS	Delta 2 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	18.11 dB	VBW	1 MHz	
	20 dBm	3.767535 ms	SWT	8 ms	Unit dBm



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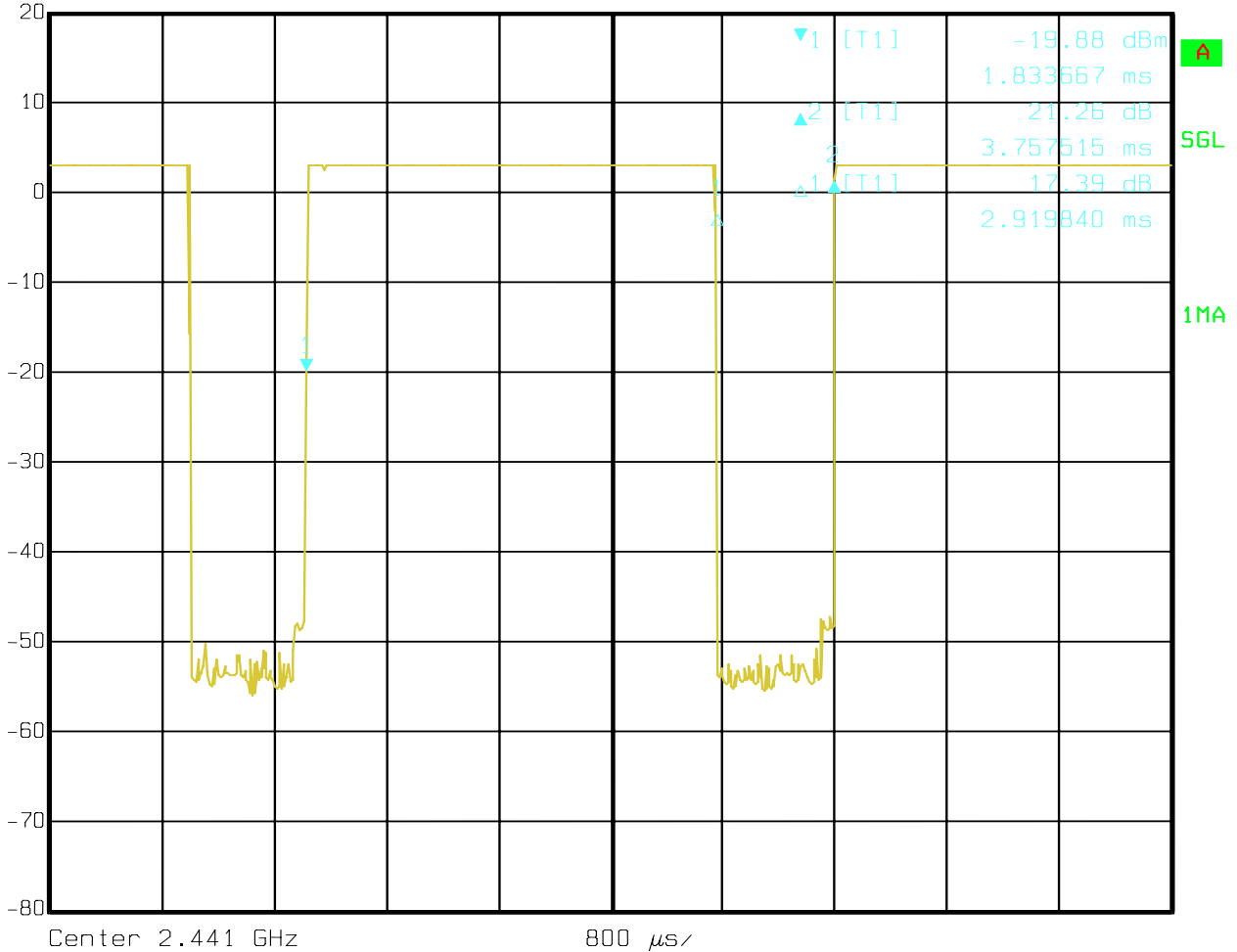
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Middle Channel: DH5 (Under test mode)



Delta 2 [T1] RBW 1 MHz RF Att 30 dB
 Ref Lvl 21.26 dB VBW 1 MHz
 20 dBm 3.757515 ms SWT 8 ms Unit dBm

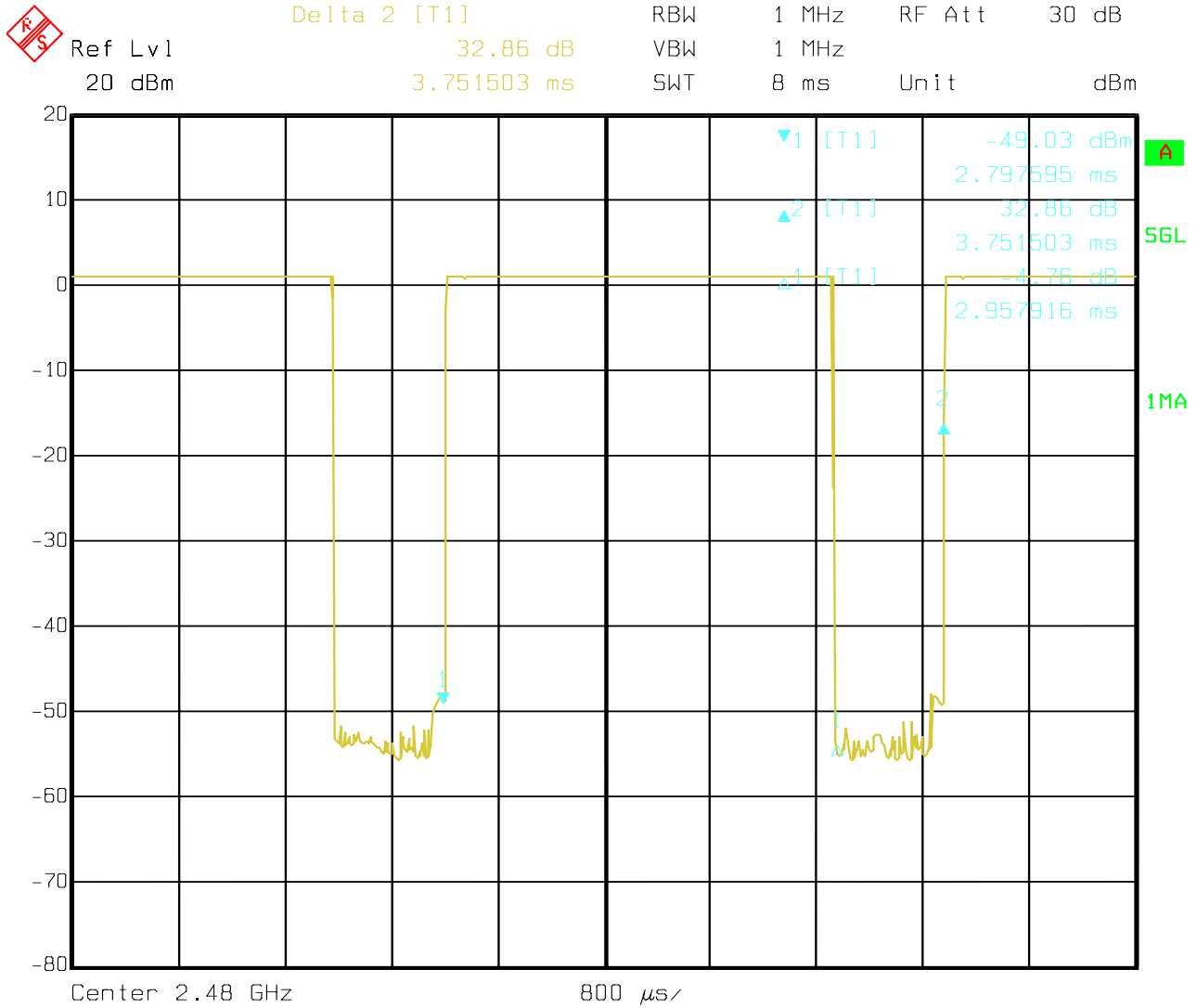


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High Channel: DH5 (Under test mode)



Date: 09.SEP.2010 14:26:26

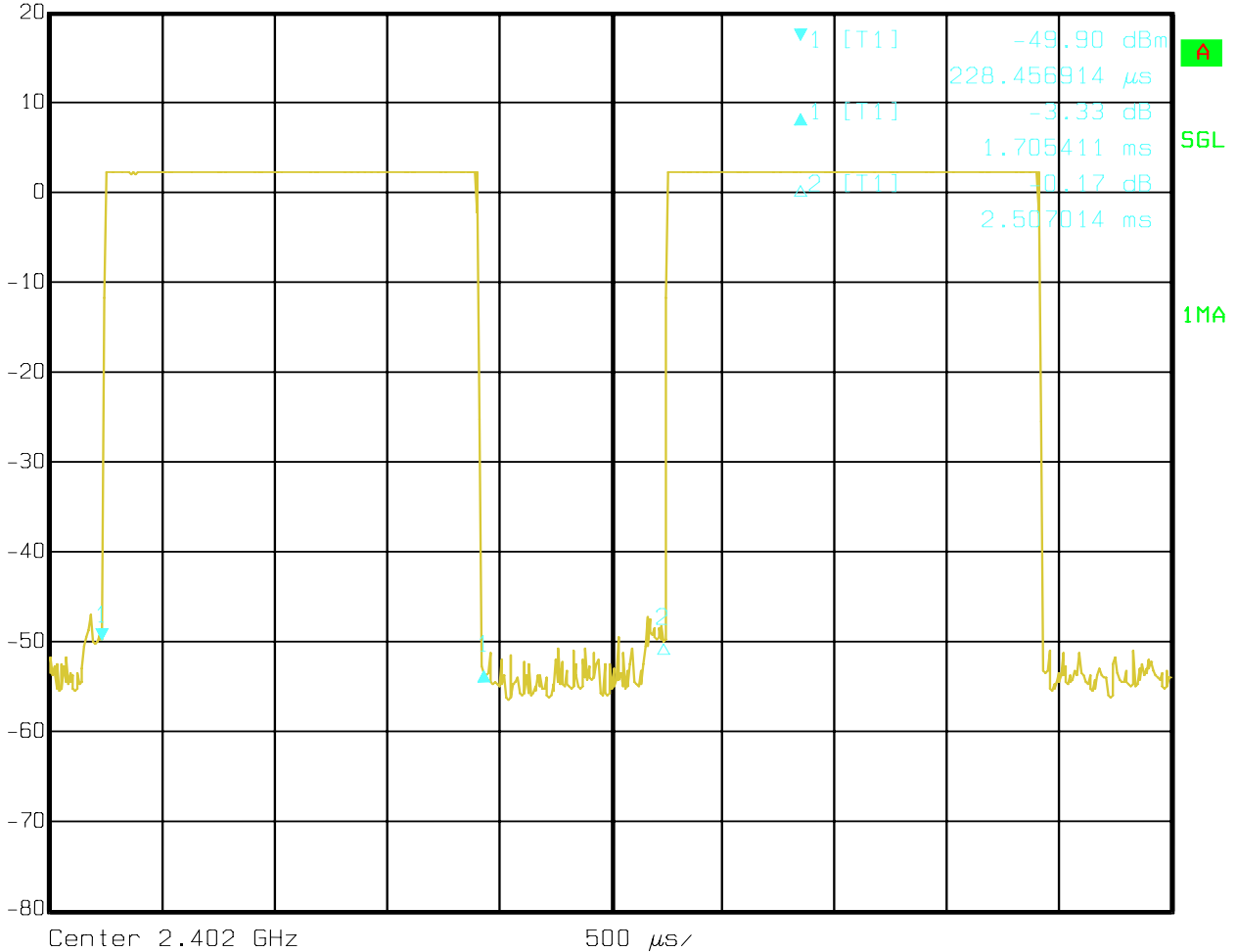
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Low Channel: DH3 (Under test Mode)



Ref Lvl	Delta 1 [T1]	RBW	1 MHz	RF Att	30 dB
20 dBm	-3.33 dB	VBW	1 MHz		
	1.705411 ms	SWT	5 ms	Unit	dBm



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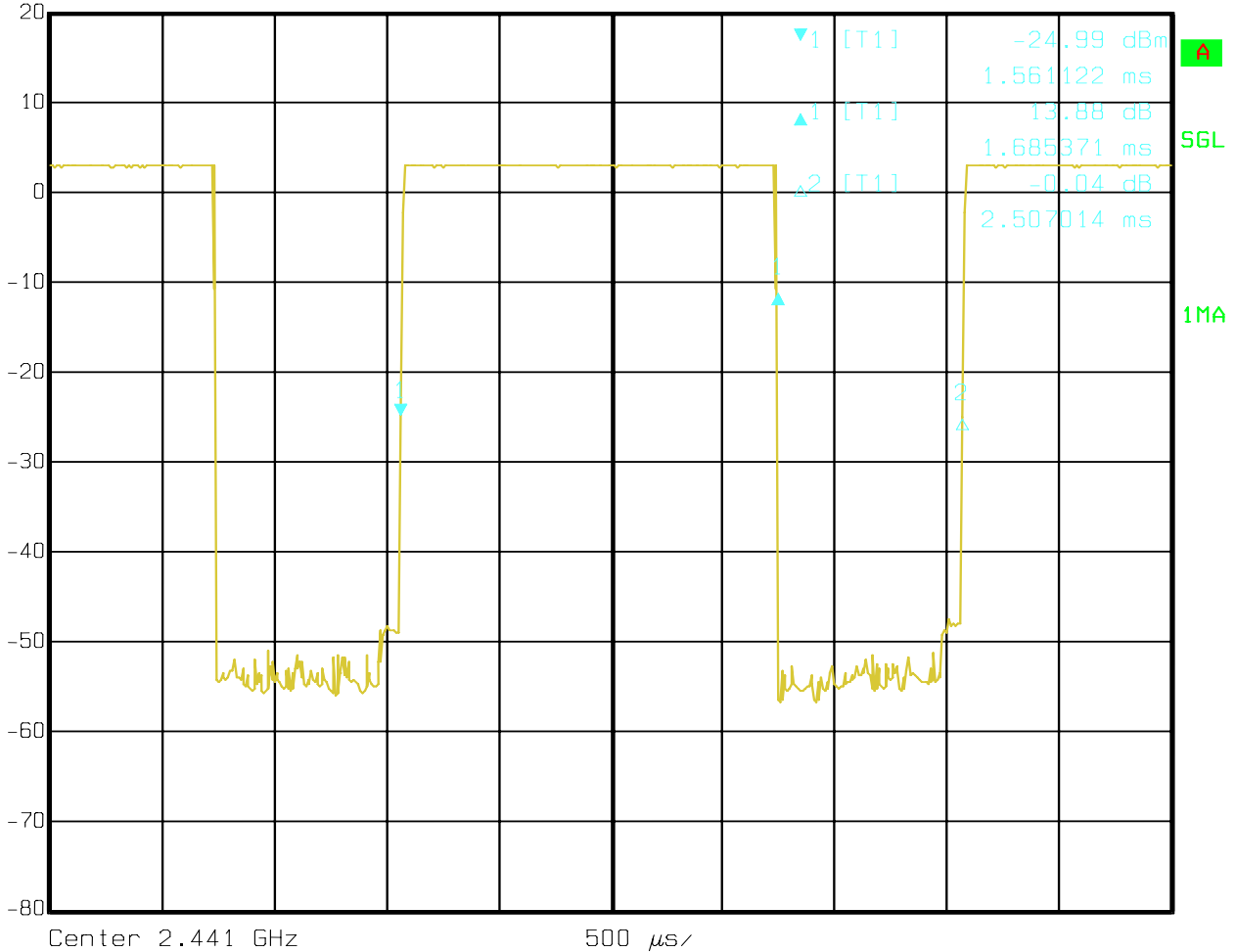
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Middle Channel: **DH3** (Under test Mode)



Delta 1 [T1] RBW 1 MHz RF Att 30 dB
 Ref Lvl 13.88 dB VBW 1 MHz
 20 dBm 1.685371 ms SWT 5 ms Unit dBm



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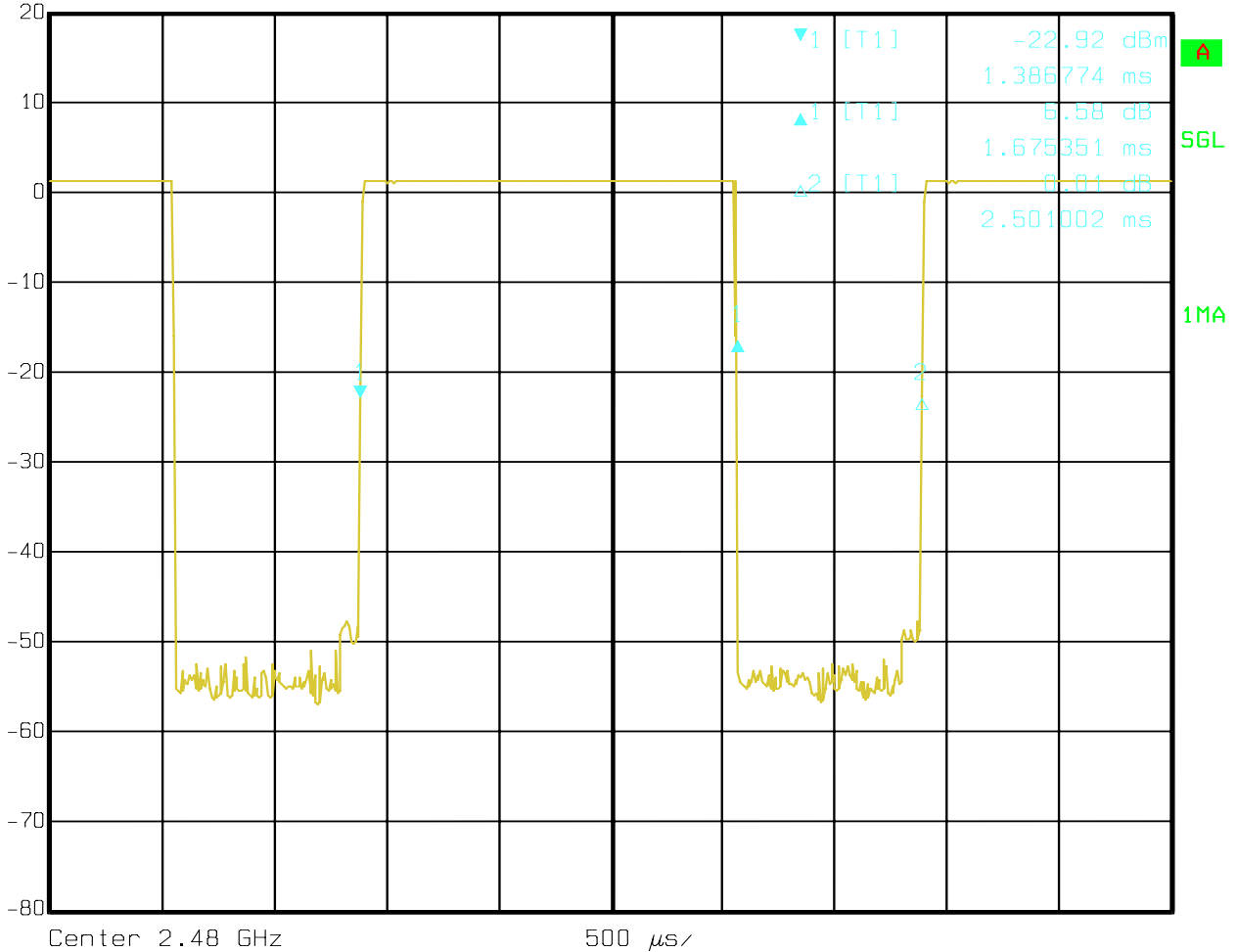
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High Channel: DH3 (Under test mode)



Delta 1 [T1] RBW 1 MHz RF Att 30 dB
 Ref Lvl 6.58 dB VBW 1 MHz
 20 dBm 1.675351 ms SWT 5 ms Unit dBm



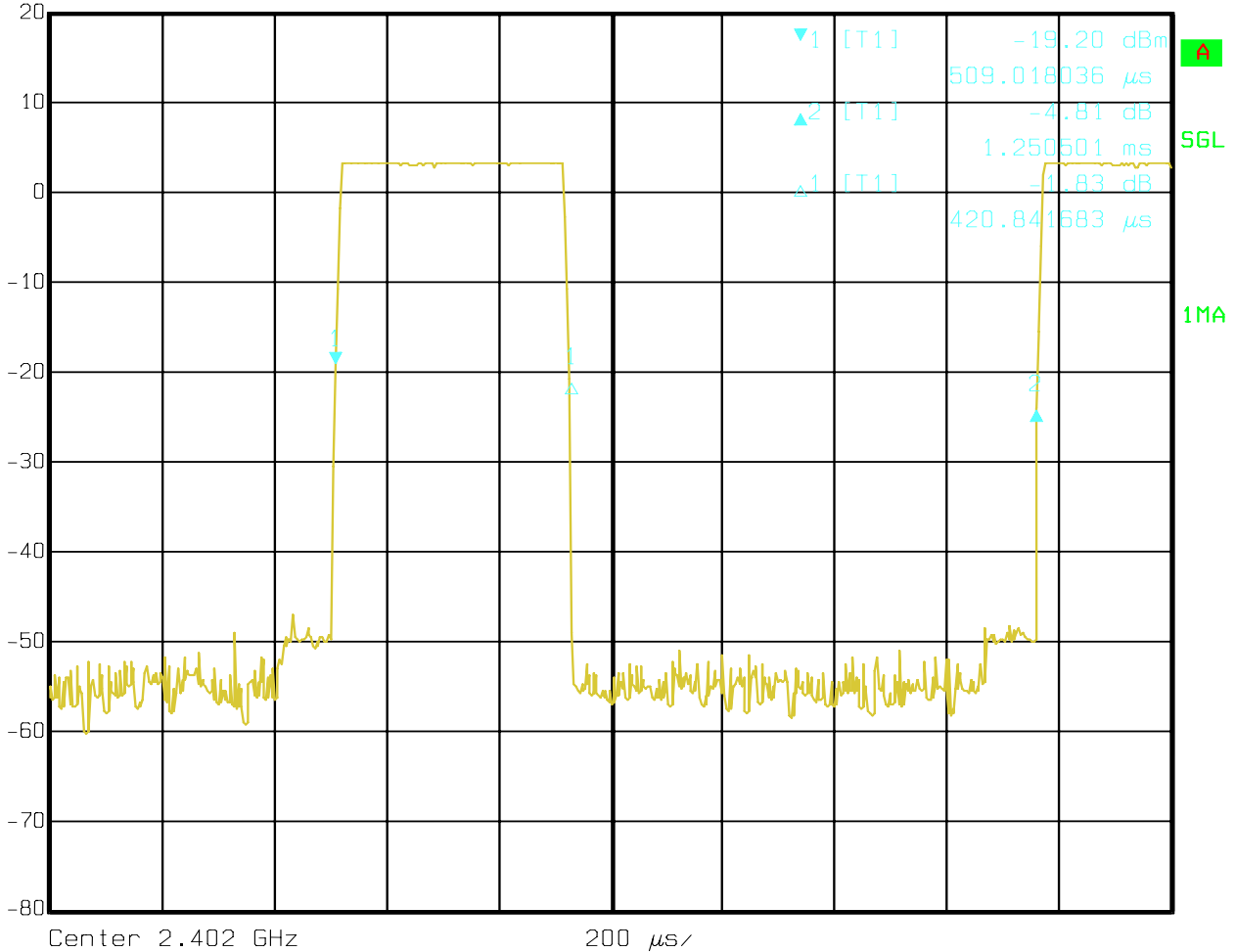
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Low Channel: DH1 (Under test mode)

RS	Delta 2 [T1]	RBW	1 MHz	RF Att	30 dB
	Ref Lvl	-4.81 dB	VBW	1 MHz	
	20 dBm	1.250501 ms	SWT	2 ms	Unit dBm



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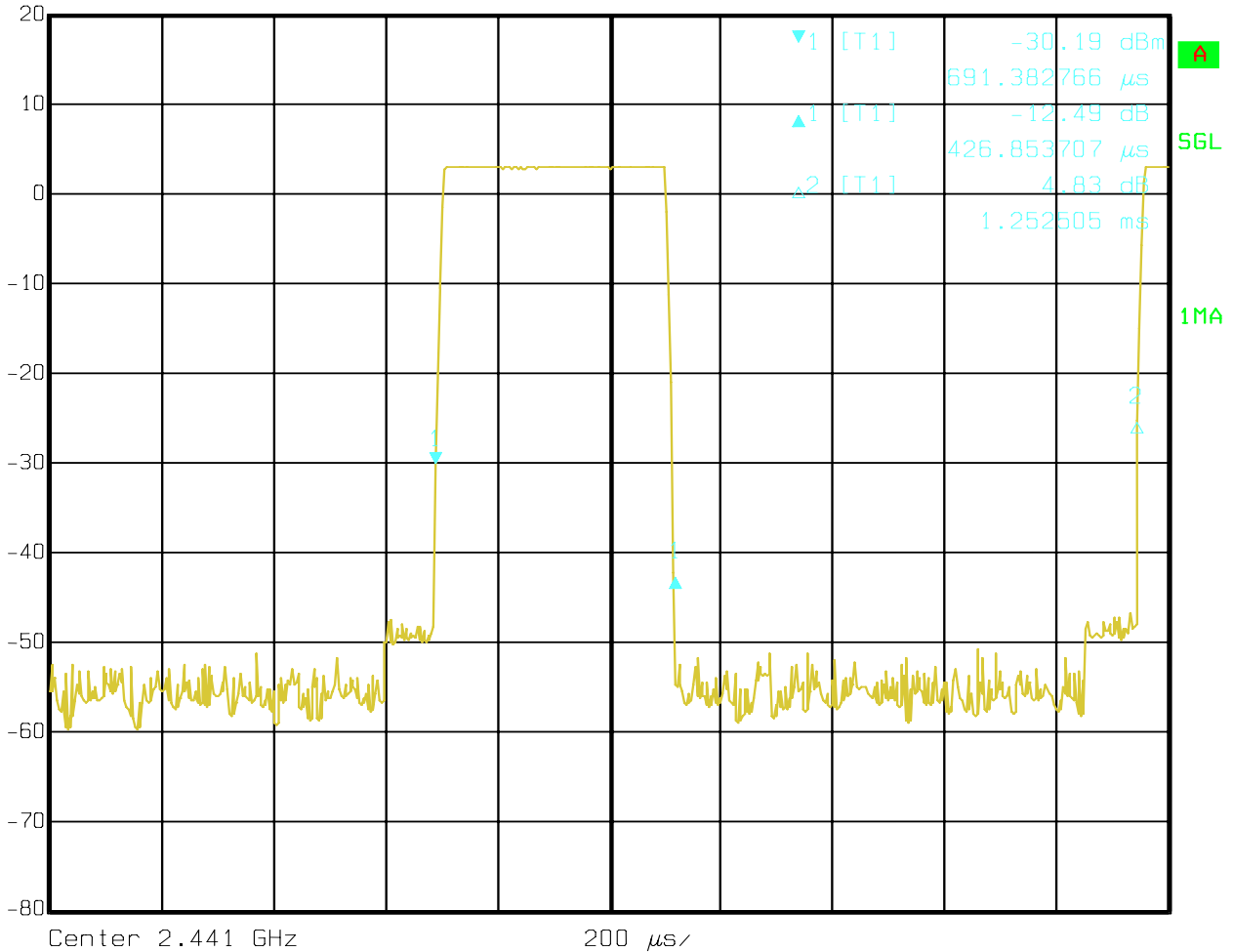
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Middle Channel: DH1 (Under test mode)



Ref Lvl	Delta 1 [T1]	RBW	1 MHz	RF Att	30 dB
20 dBm	-12.49 dB	VBW	1 MHz		
	426.853707 μ s	SWT	2 ms	Unit	dBm



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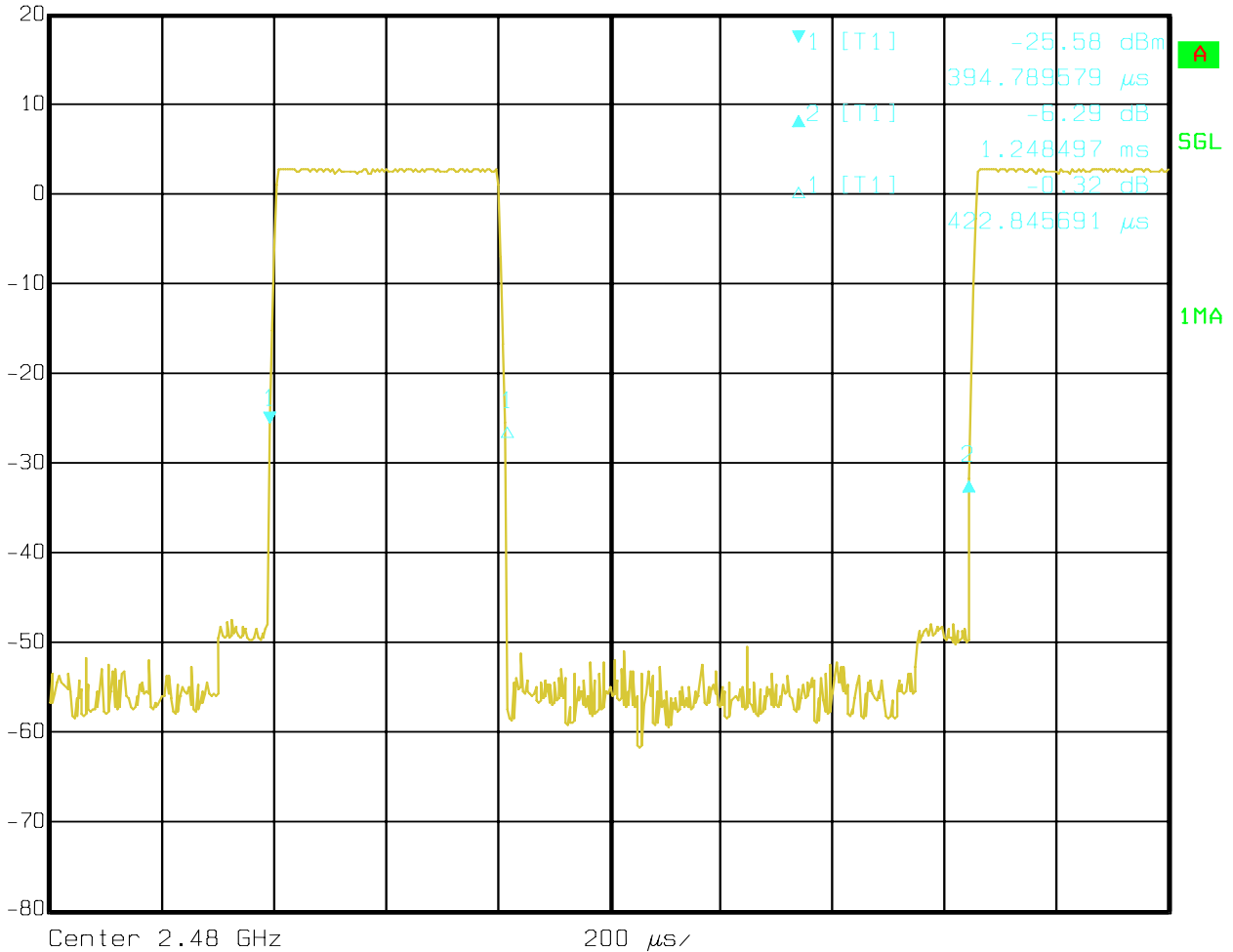
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High Channel: DH1: (Under test mode)



Ref Lvl	Delta 2 [T1]	RBW	1 MHz	RF Att	30 dB
20 dBm	-6.29 dB	VBW	1 MHz		
	1.248497 ms	SWT	2 ms	Unit	dBm



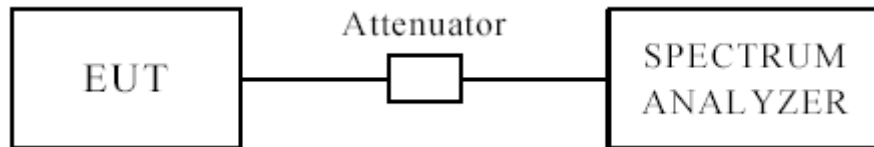
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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz 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

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.(Peak values with $\text{RBW}=\text{VBW}=1\text{MHz}$ and PK detector. AV value with $\text{RBW}=1\text{MHz}$, $\text{VBW}=10\text{Hz}$ and PK detector)

For bandage test, the spectrum set as follows: $\text{RBW}=\text{VBW}=100\text{ kHz}$. A conducted measurement used

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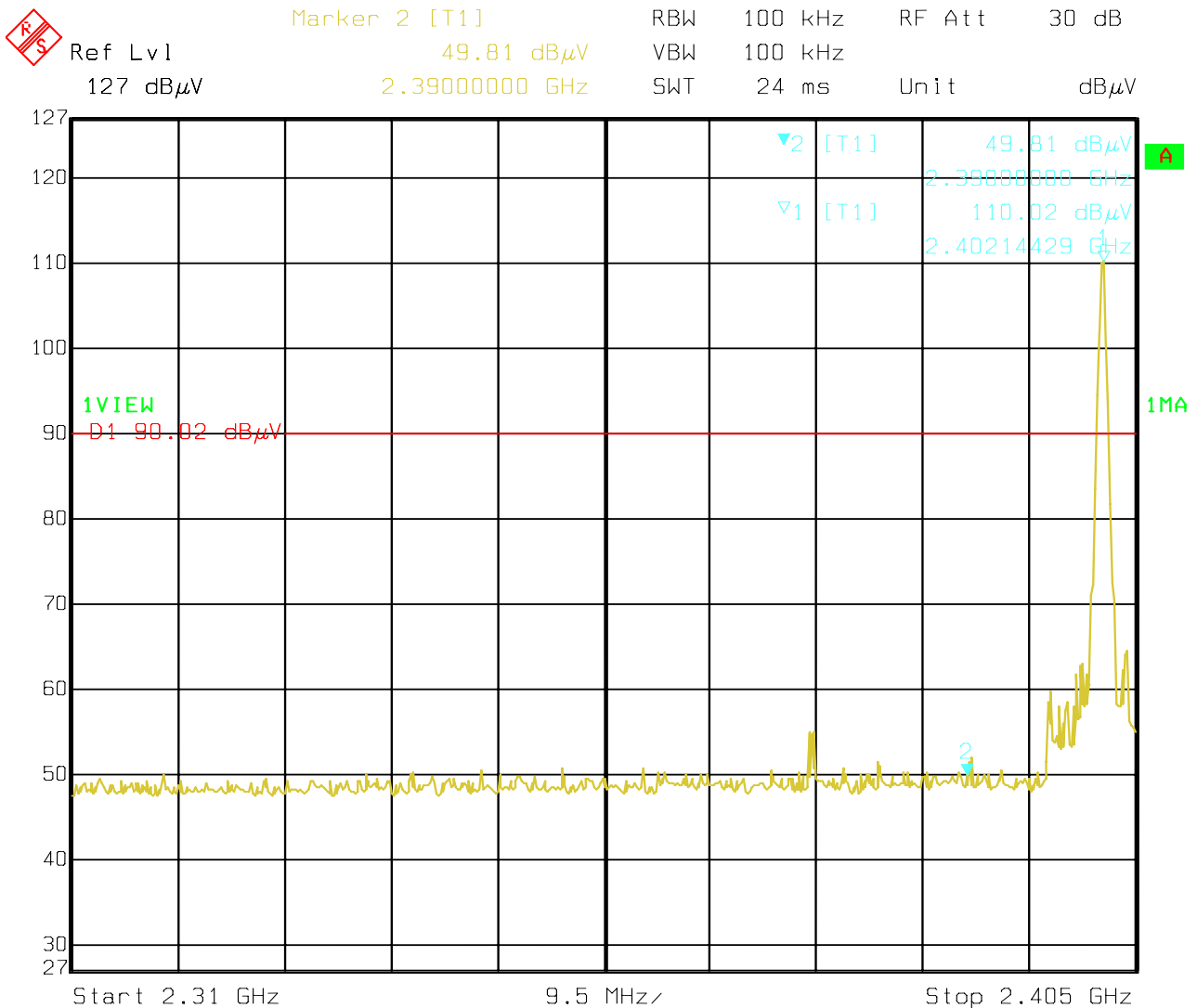
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12.4 Out of Band Test Result

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 (dBμV/m)	48.3	Limit	74(dBμV/m)
	AV(dBμV/m)	33.6		54(dBμV/m)

Test Figure:



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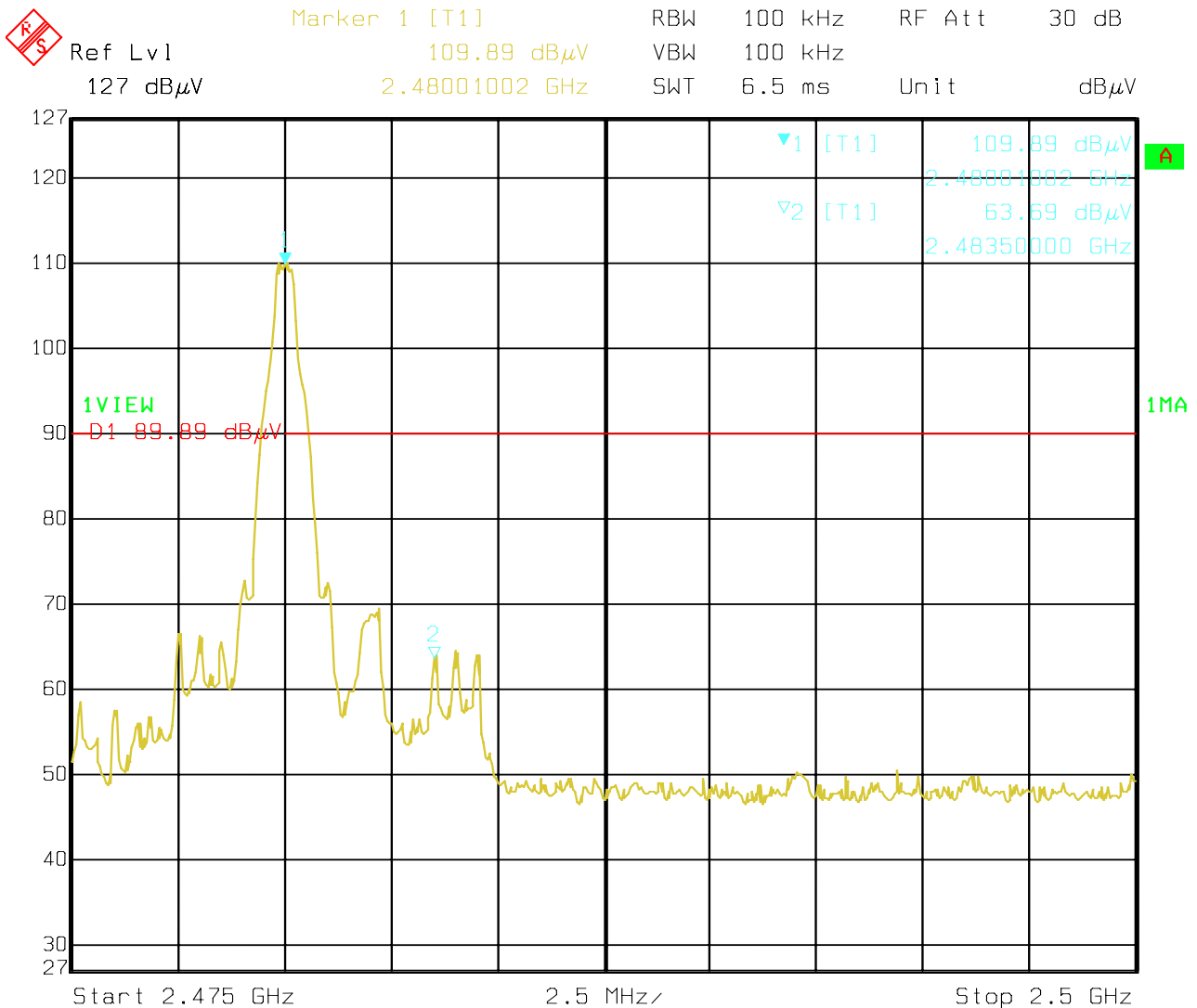
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12.4 Out of Band Test Result

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 (dBμV/m)	55.6	Limit	74(dBμV/m)
	AV(dBμV/m)	41.2		54(dBμV/m)

Test Figure:



Date: 09.SEP.2010 14:48:41

Note: 1. The Max. FS in Restrict Band are measured in conventional method.

2. Final Level = Reading + AF + Cable - Preamp

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13.0 Antenna Requirement

13.1 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.

13.2 Antenna Connected construction

The antenna is chip dielectric antenna. The maximum Gain of this antenna is -0.8dBi

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14.0 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 ²)	Averaging Times E ² , H ² 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 ²)	Averaging Times E ² , H ² 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.

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

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Calculated Result and Limit

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
0.832	3.21	2.094	0.0003	1	Compiles

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15.0 FCC and IC ID Label

FCC ID: VRI-B134

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

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Report No: 1009244-02
Date: 2010-12-16



Page 59 of 59

18.0 Photo of testing

See test report 1009244-01

18.1 Photo for the EUT

See test report 1009244-02

End of the report

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