



卓時檢測
TIMEWAY TESTING LABORATORY



NO.L2292

ISO/IEC17025 Accredited Lab.

Report No: FCC 1007245
File reference No: 2010-08-25

Applicant: Guangzhou Chiyuan Electronic Co.,Ltd.

Product: 3CH Radio Control

Model No: CY310

Trademark: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

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 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung
Manager

Dated: August 25,2010

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.

Tel (755) 83448688

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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 meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 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 IC No.: 5205A-01.

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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: Guangzhou Chiyuan Electronic Co., Ltd
Address: 2/F, No.1Bled., Boyi Industrial Garden, 4th Gongye RD. Zhicun Dashi Street, Panyu Dis.,
Guangzhou, China
Telephone: +86-20-34796226/34797226
Fax: +86-20-34796116

1.3 Description of EUT

Product: 3CH Radio Control
Manufacturer: Guangzhou Chiyuan Electronic Co., Ltd
Brand Name: N/A
Model Number: CY310
Additional Model Name: CY3S,CY320,N-4Q,8181
Rating: DC9.6V (8 pcs AA Batteries)
Power Supply: N/A
Type of Modulation: GFSK
Frequency range: 2403-2477MHz
Number of Channel: 75
Air Data Rate: 250kbps
Antenna type: Dipole antenna

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2010-07-20 to 2010-08-25

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer & verify Engineer

Test Engineer

Brown Lu

The sample(s) tested by _____

Print Name: Brown Lu/ Engineer

Verify Engineer

Terry Tang

The report verified by _____

Print Name: Terry Tang/ EMC Manager

2.0	Test Equipments				
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2009-12-05	2010-12-04
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2009-12-05	2010-12-04
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2010-03-29	2011-03-28
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2010-02-17	2011-02-16
System Controller	CT	SC100	-	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
3m OATS	--	--	N/A	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
LISN	AFJ	LS16C	10010947251	2010-5-14	2011-05-13

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LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2010-5-14	2011-05-13
9*6*6 Anechoic	--	--	N/A	2010-5-14	2011-05-13

3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	N/A
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(c)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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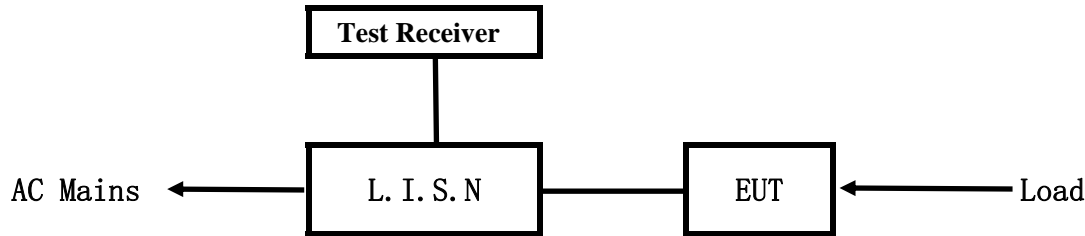
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TEST REPORT

5. Power Line Conducted Emission Test

5.1 Schematics of the test

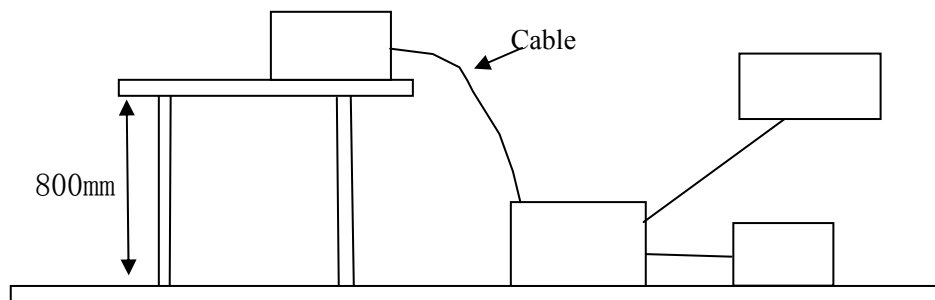


EUT: Equipment Under Test

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.

A. EUT

Device	Manufacturer	Model	FCC ID
3CH Radio Control	Guangzhou Chiyuan Electronic Co., Ltd	CY310	V6K300L

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

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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 15.207

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: Owing to DC operation of EUT, this test item is not performed

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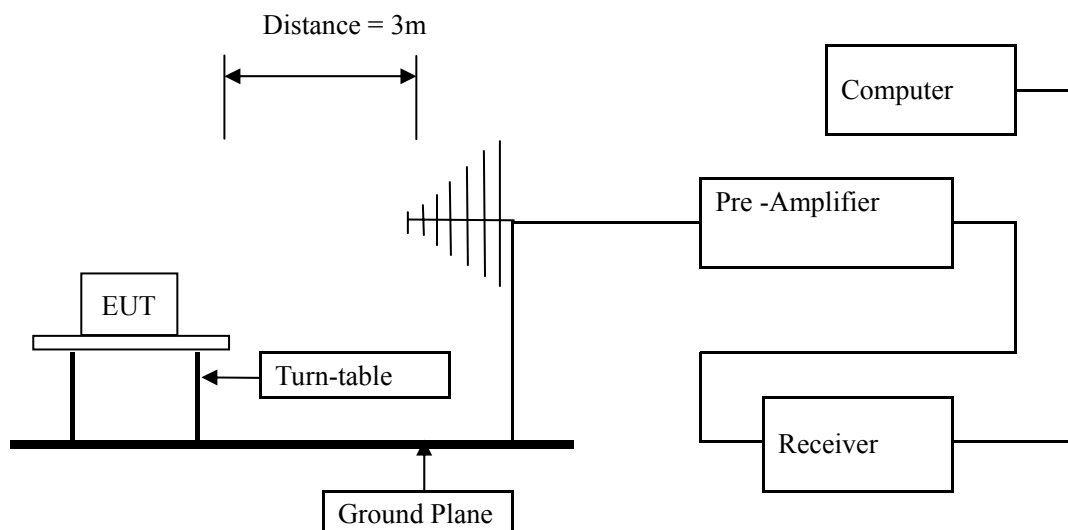


6 Radiated Emission Test

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 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. 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:

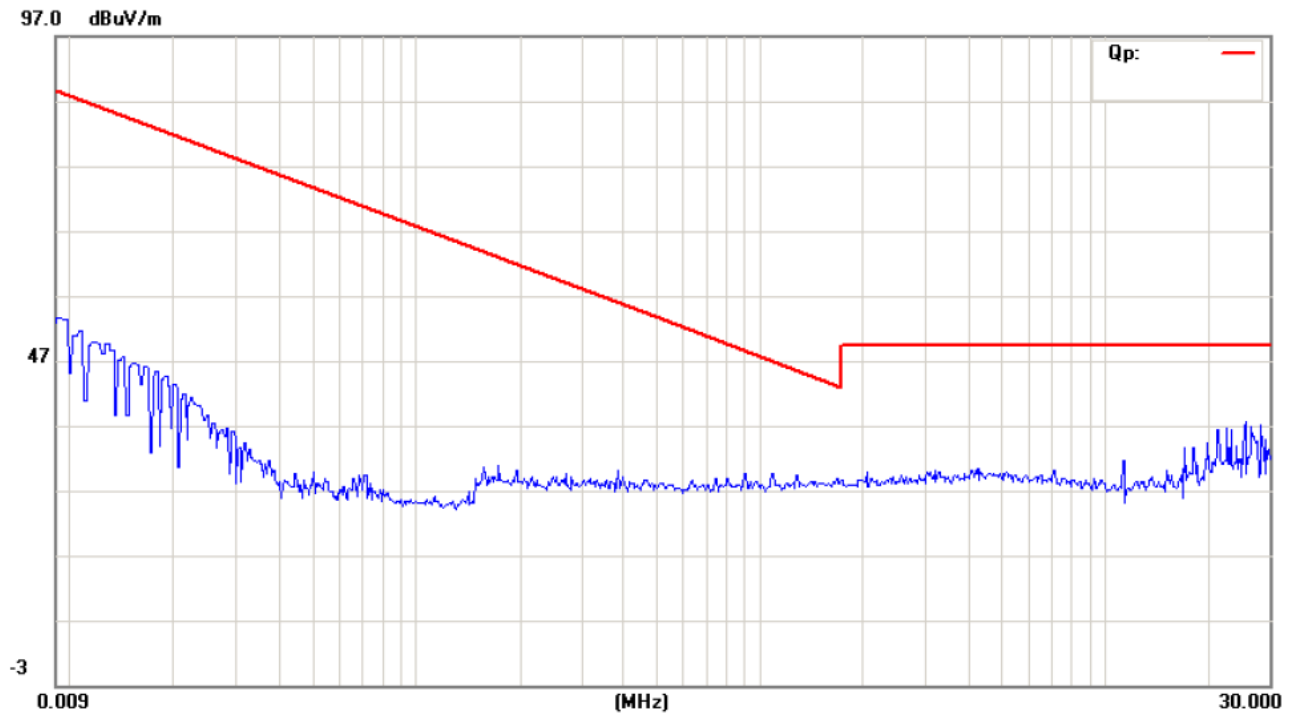
Frequencies in restricted band are complied to limit on Paragraph 15.209 and RSS-210

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	300	2400/F(KHz)
0.490-1.705	30	24000/F(KHz)
1.705-30	30	30
30-88	3	100
88-216	3	150
216-960	3	200
Above 960	3	500

- 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



Low Channel



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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Tx under transmitting mode

Results: Pass

Model: Low Channel

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
31.981	36.97	V	40.00
175.999	37.08	V	43.50
191.995	32.31	V	43.50
207.996	30.87	V	43.50
527.998	42.01	V	46.00
634.425	42.48	V	46.00
175.995	36.65	H	43.50
192.003	37.04	H	43.50
208.000	38.00	H	43.50
223.993	37.83	H	46.00
240.005	39.00	H	46.00
512.001	36.88	H	46.00

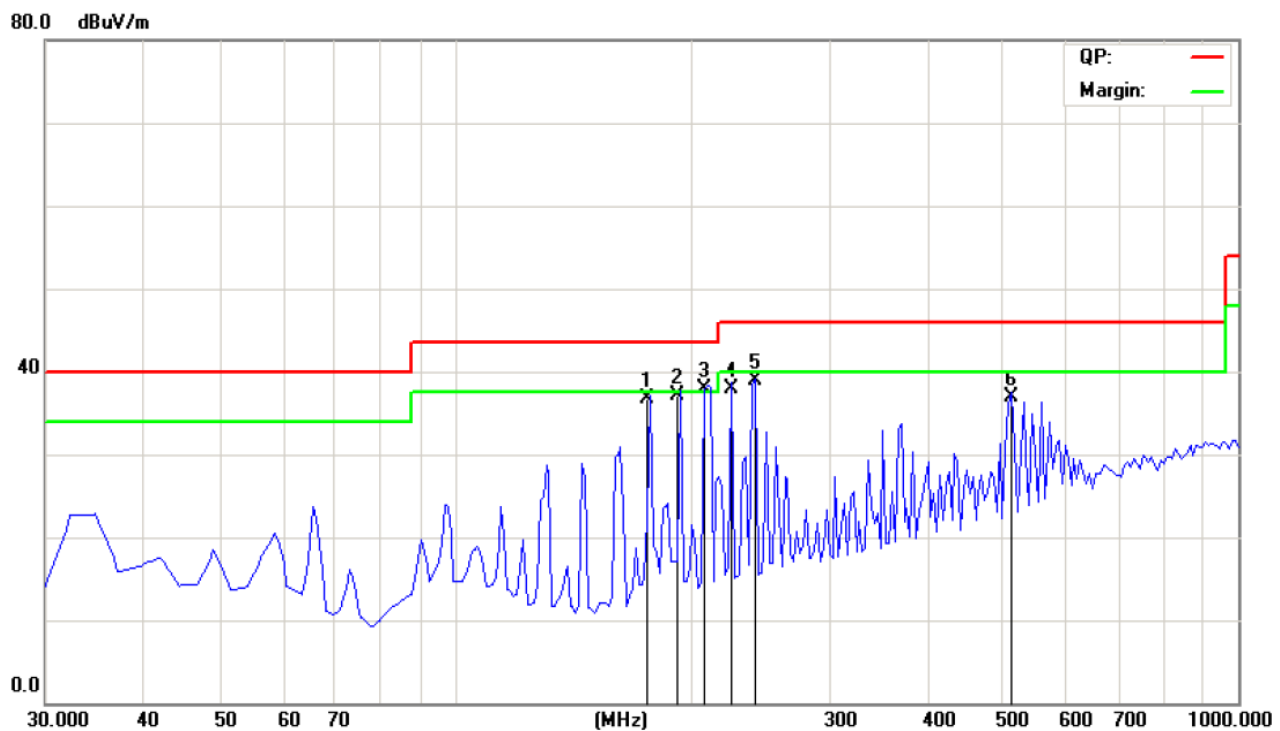
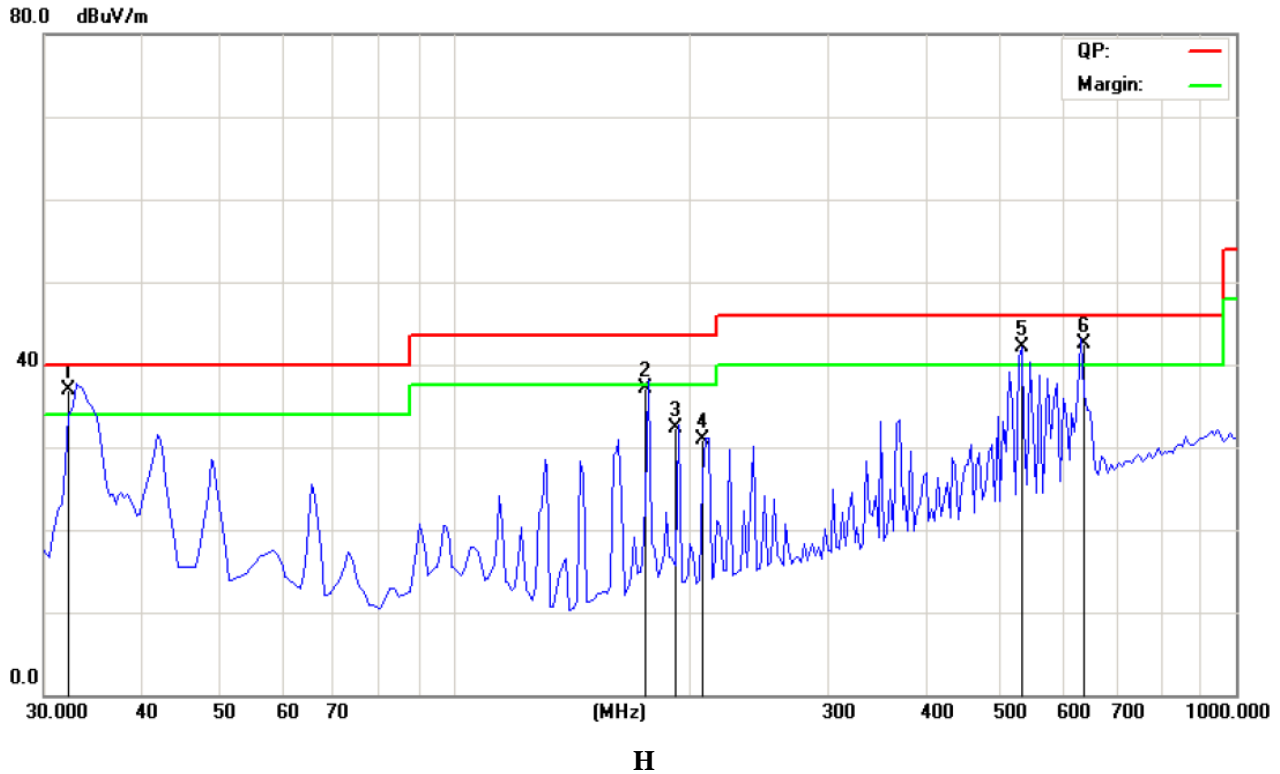
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Test Figure: transmitting mode



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

EUT set Condition: Tx under transmitting mode

Results: Pass

Model: Middle Channel

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
159.994	30.19	H	43.50
207.984	37.16	H	43.50
224.003	39.28	H	46.00
239.999	39.64	H	46.00
634.468	40.78	H	46.00
194.900	34.21	H	43.50
143.998	29.19	V	43.50
160.000	30.32	V	43.50
208.013	31.53	V	43.50
224.004	31.98	V	46.00
536.012	40.81	V	46.00
634.385	41.82	V	46.00

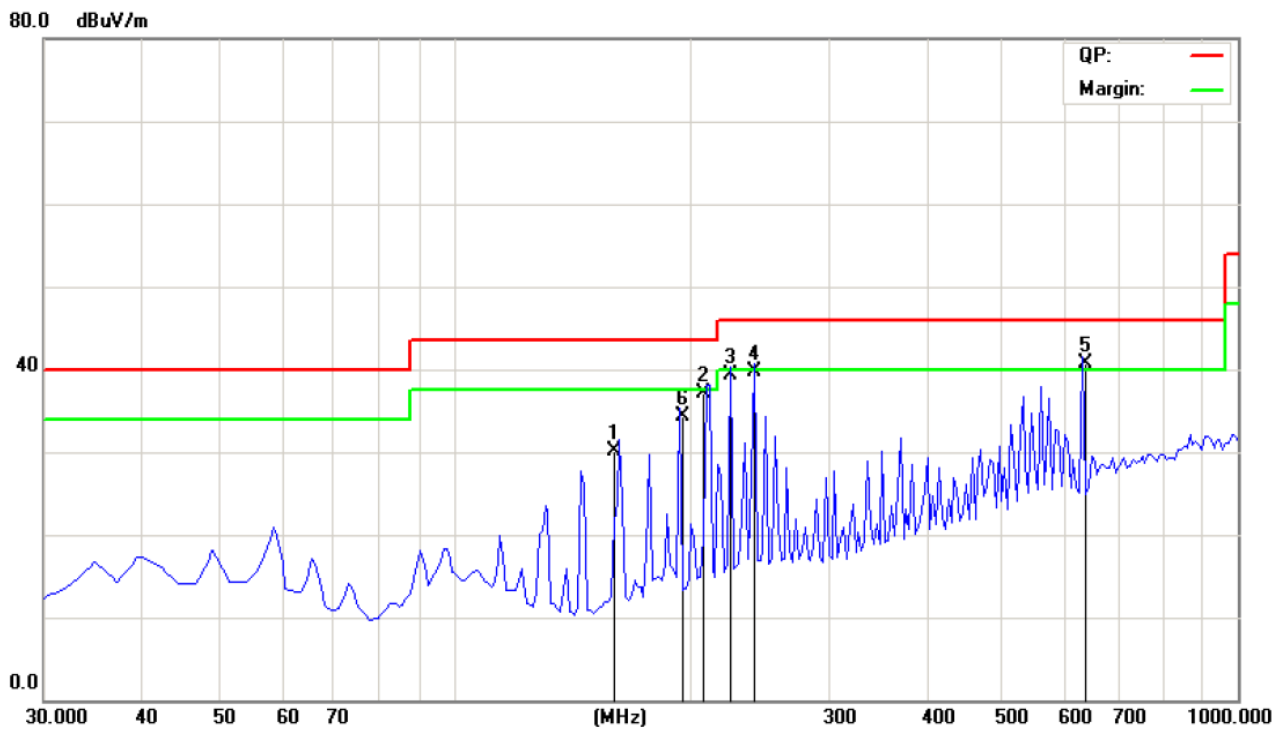
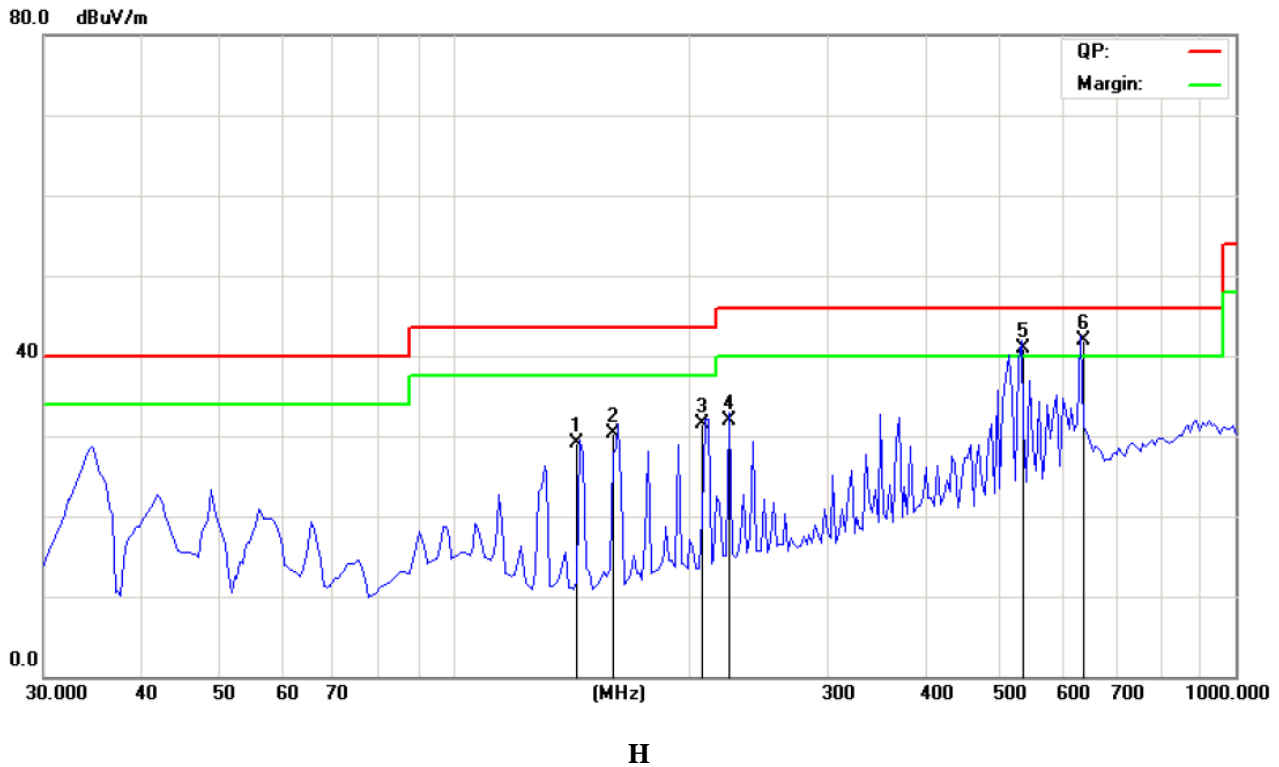
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Test Figure: transmitting mode



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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Tx under transmitting mode

Results: Pass

Model: High Channel

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
143.997	28.77	V	43.50
160.004	30.88	V	43.50
208.027	31.46	V	43.50
223.222	32.47	V	46.00
535.115	41.04	V	46.00
634.412	41.88	V	46.00
159.987	30.90	H	43.50
192.005	33.91	H	43.50
208.012	37.44	H	43.50
223.994	39.04	H	46.00
240.011	38.94	H	46.00
634.391	41.60	H	46.00

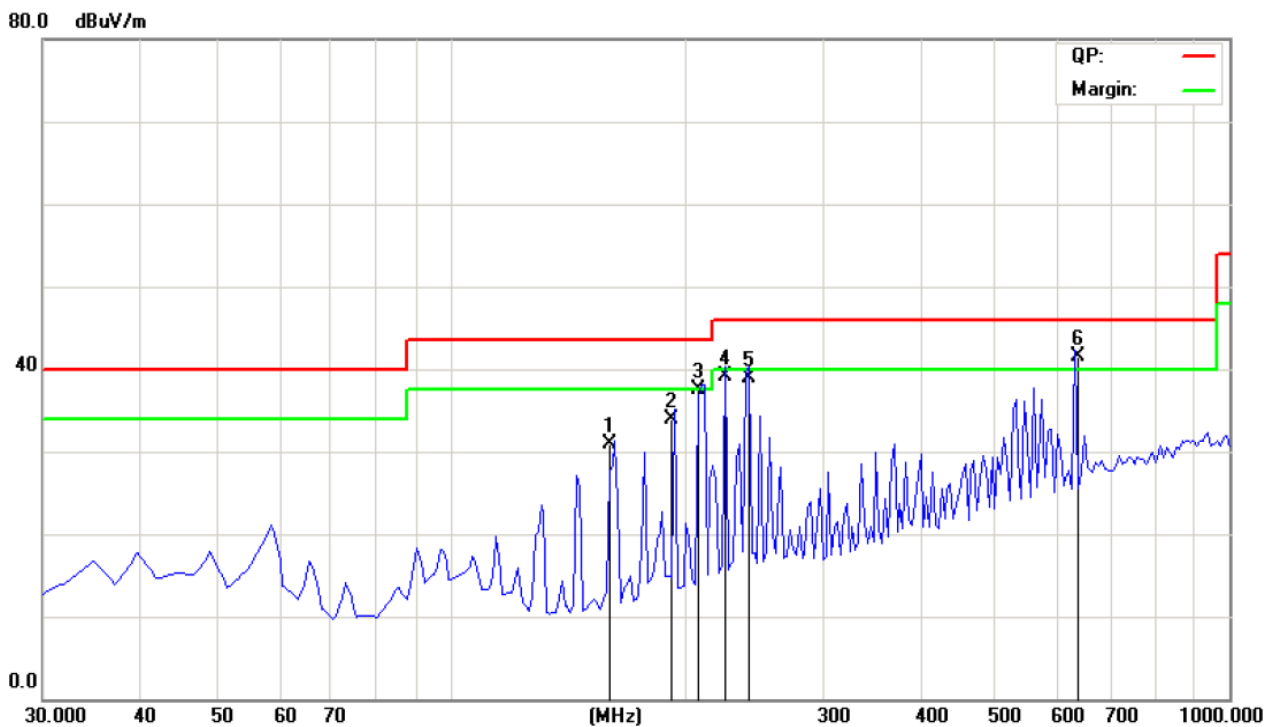
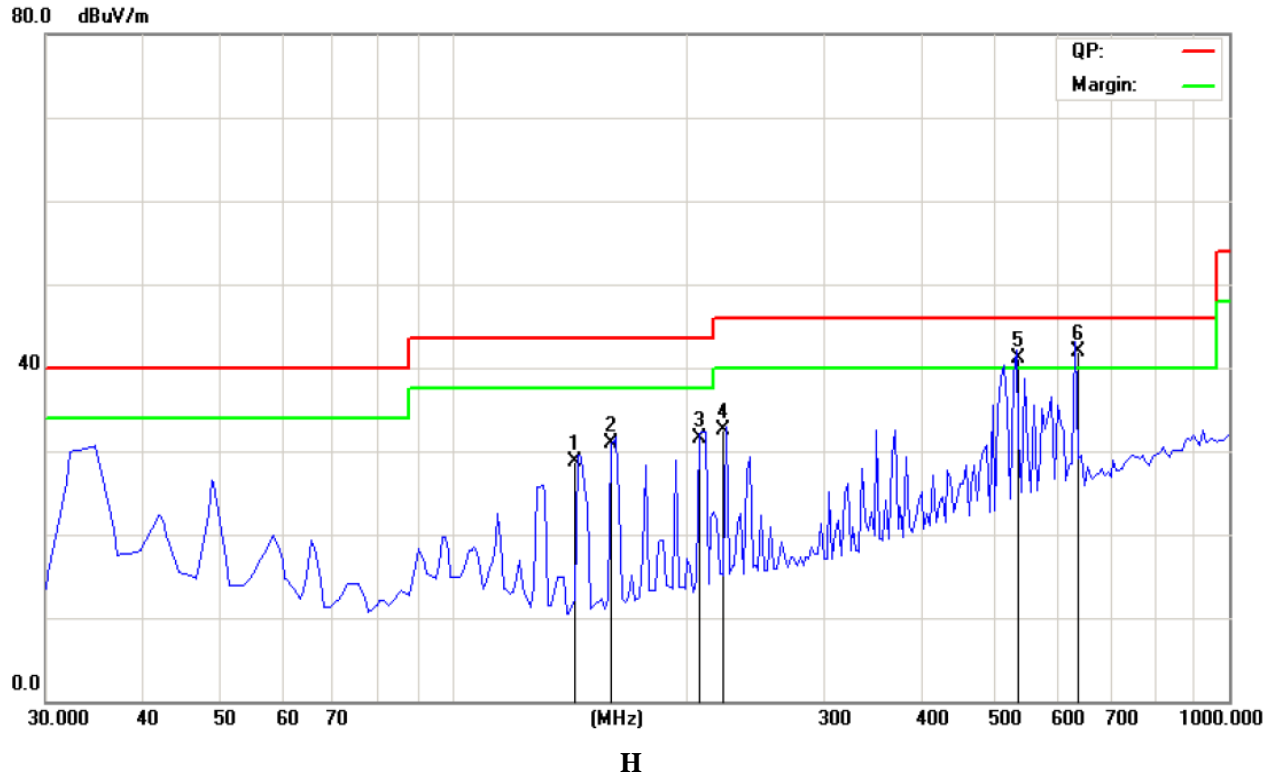
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Test Figure: transmitting mode



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Operation Mode: Transmitting under Low Channel

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2403	105.7 (PK) /93.8 (AV)	H	Fundamental Frequency
2403	108.6 (PK) /95.8 (AV)	V	
4806	53.6 (PK) /41.3 (AV)	H	74(Peak)/ 54(AV)
4806	55.2 (PK) /44.5 (AV)	V	74(Peak)/ 54(AV)
7209	54.4 (PK) /41.4 (AV)	H	74(Peak)/ 54(AV)
7209	55.6 (PK) /42.8 (AV)	V	74(Peak)/ 54(AV)
9612	--	H/V	74(Peak)/ 54(AV)
12015	--	H/V	74(Peak)/ 54(AV)
14418	--	H/V	74(Peak)/ 54(AV)
16821	--	H/V	74(Peak)/ 54(AV)
19224	--	H/V	74(Peak)/ 54(AV)
21627	--	H/V	74(Peak)/ 54(AV)
24030	--	H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting under CH Mid

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2440	104.6 (PK) /91.0 (AV)	H	Fundamental Frequency
2440	110.5 (PK) /96.7 (AV)	V	
4880	54.8(PK)/42.5 (AV)	H	74(Peak)/ 54(AV)
4880	57.2(PK) /43.8 (AV)	V	74(Peak)/ 54(AV)
7320	53.3(PK) /41.9 (AV)	H	74(Peak)/ 54(AV)
7320	56.2(PK) /43.6 (AV)	V	74(Peak)/ 54(AV)
9760	--	H/V	74(Peak)/ 54(AV)
12200	--	H/V	74(Peak)/ 54(AV)
14640	--	H/V	74(Peak)/ 54(AV)
17080	--	H/V	74(Peak)/ 54(AV)
19520	--	H/V	74(Peak)/ 54(AV)
21960	--	H/V	74(Peak)/ 54(AV)
24400	--	H/V	74(Peak)/ 54(AV)

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Operation Mode: Transmitting under CH High

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2477	103.7 (PK) /90.5 (AV)	H	Fundamental Frequency
2477	109.2 (PK) /94.2 (AV)	V	
4854	54.2(PK) /42.2(AV)	H	74(Peak)/ 54(AV)
4854	58.6 (PK) /45.7 (AV)	V	74(Peak)/ 54(AV)
7431	52.5(PK) /38.8(PK)	H	74(Peak)/ 54(AV)
7431	56.7(PK) /42.7 (AV)	V	74(Peak)/ 54(AV)
9908	--	H/V	74(Peak)/ 54(AV)
12385	--	H/V	74(Peak)/ 54(AV)
14862	--	H/V	74(Peak)/ 54(AV)
17339	--	H/V	74(Peak)/ 54(AV)
19816	--	H/V	74(Peak)/ 54(AV)
22293	--	H/V	74(Peak)/ 54(AV)
24770	--	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
 3. Margin=Emission-Limits
 4. According to section 15.35(b), the peak limit is 20dB higher than the average limit

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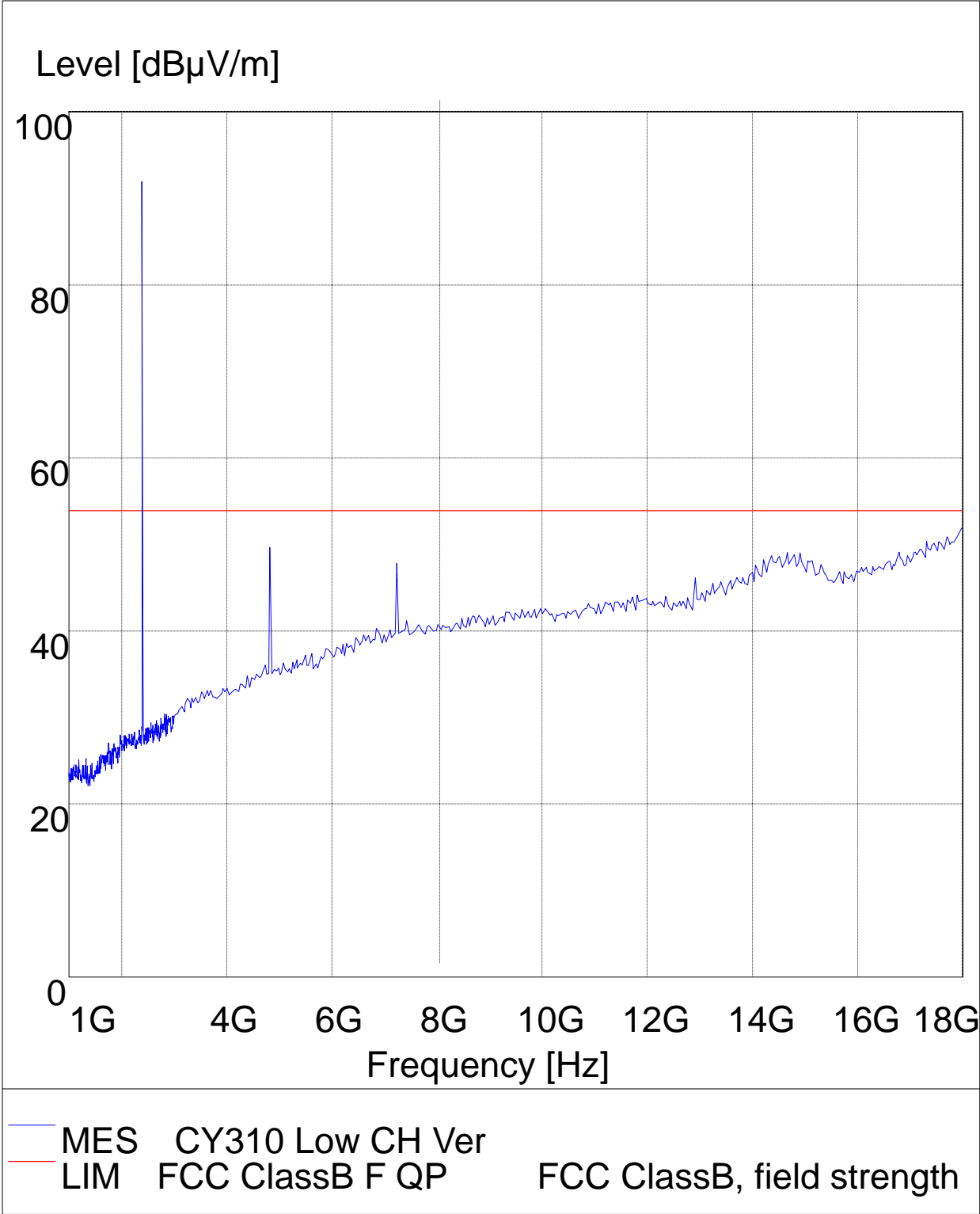
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Please refer to the following test plots for details:

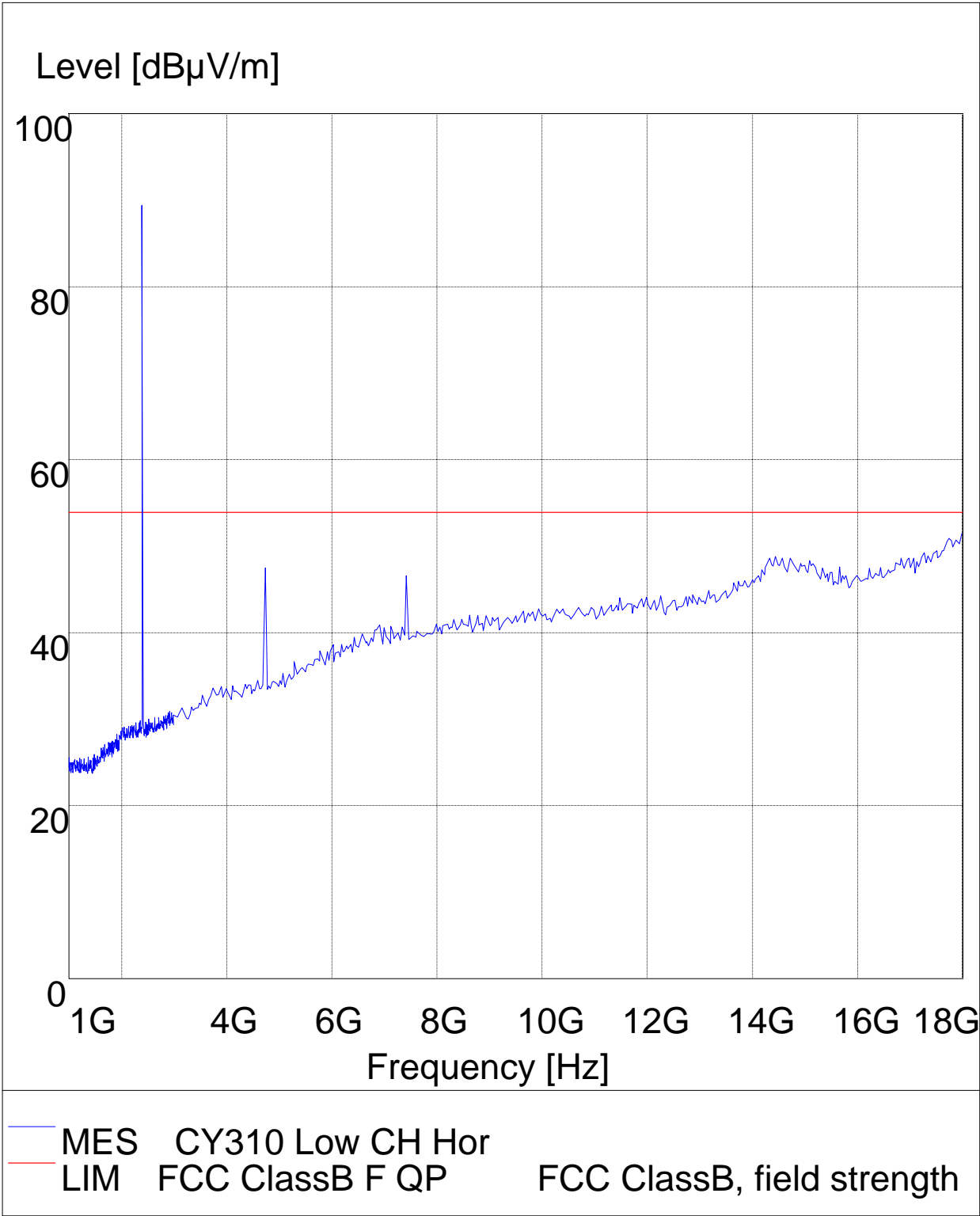
Low Channel: Vertical



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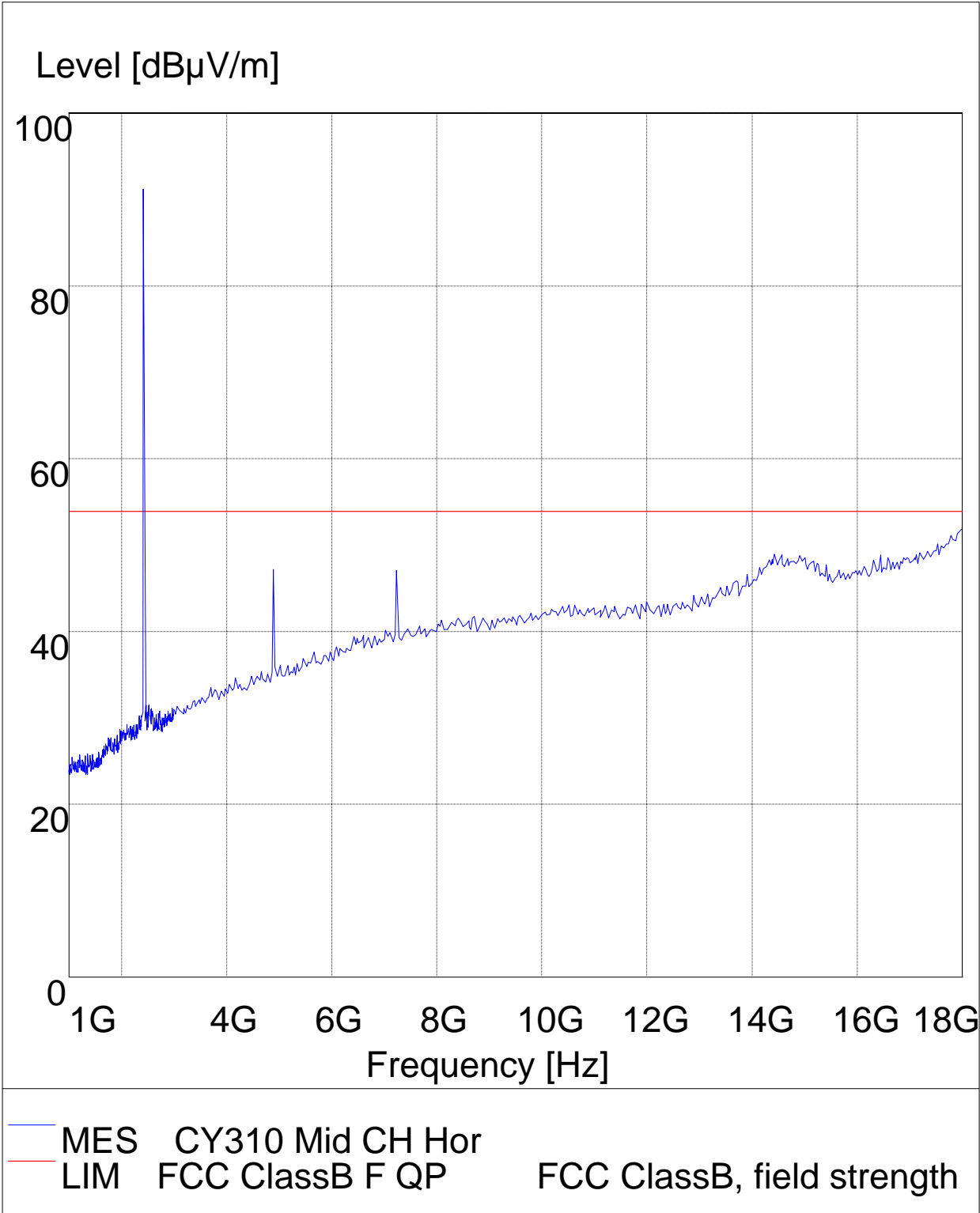
Low Channel : Horizontal



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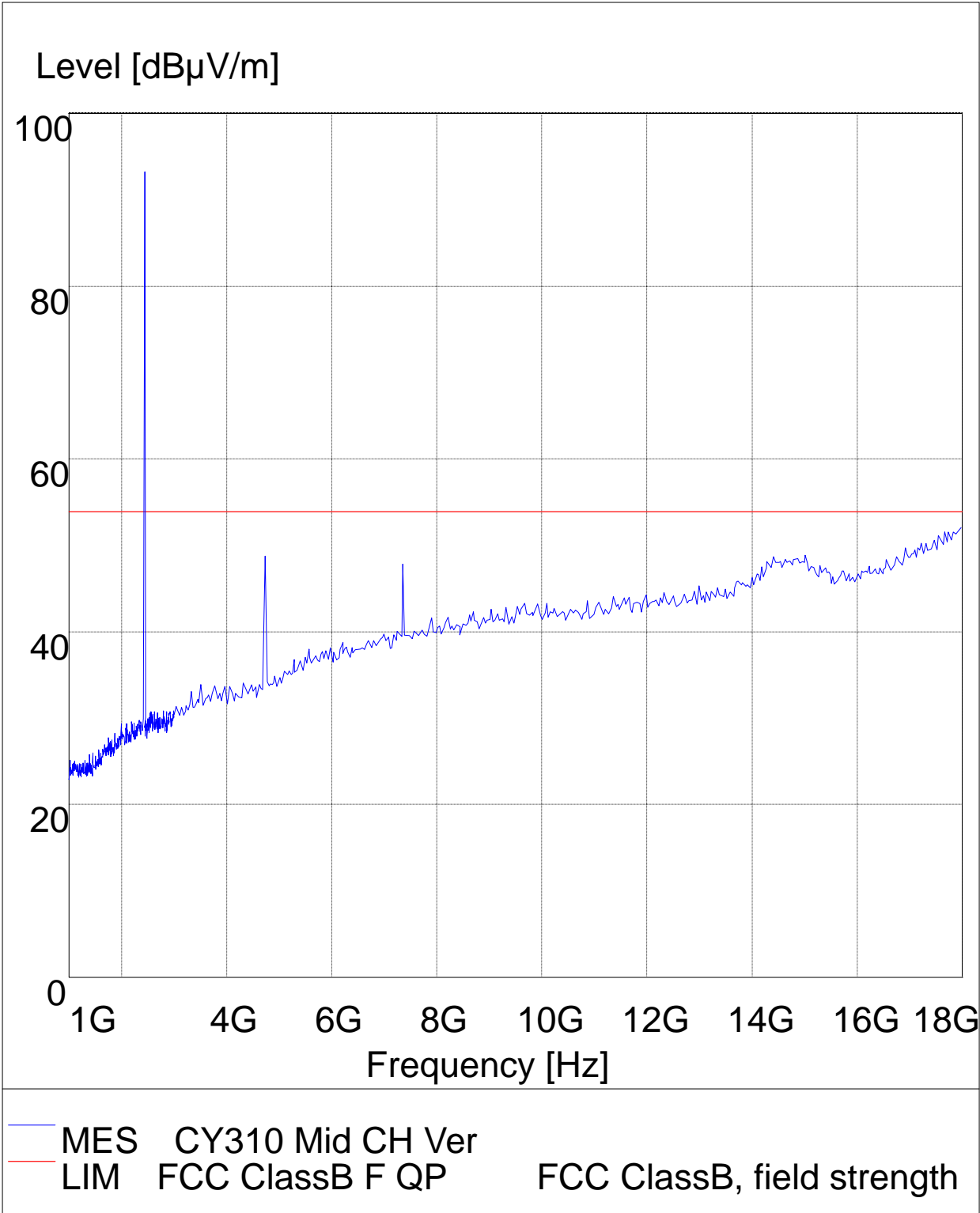
Middle Channel : Horizontal



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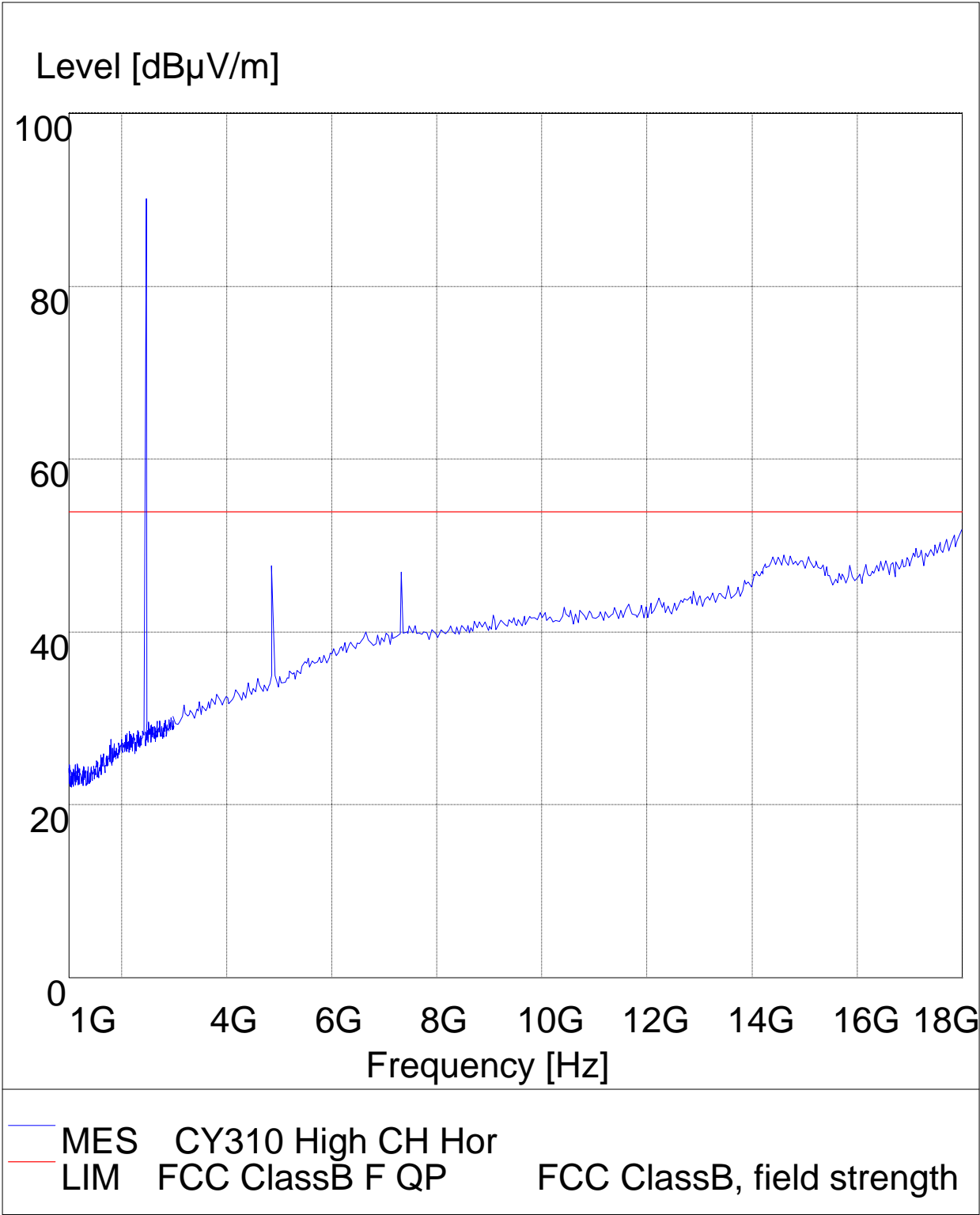
Middle Channel : Vertical



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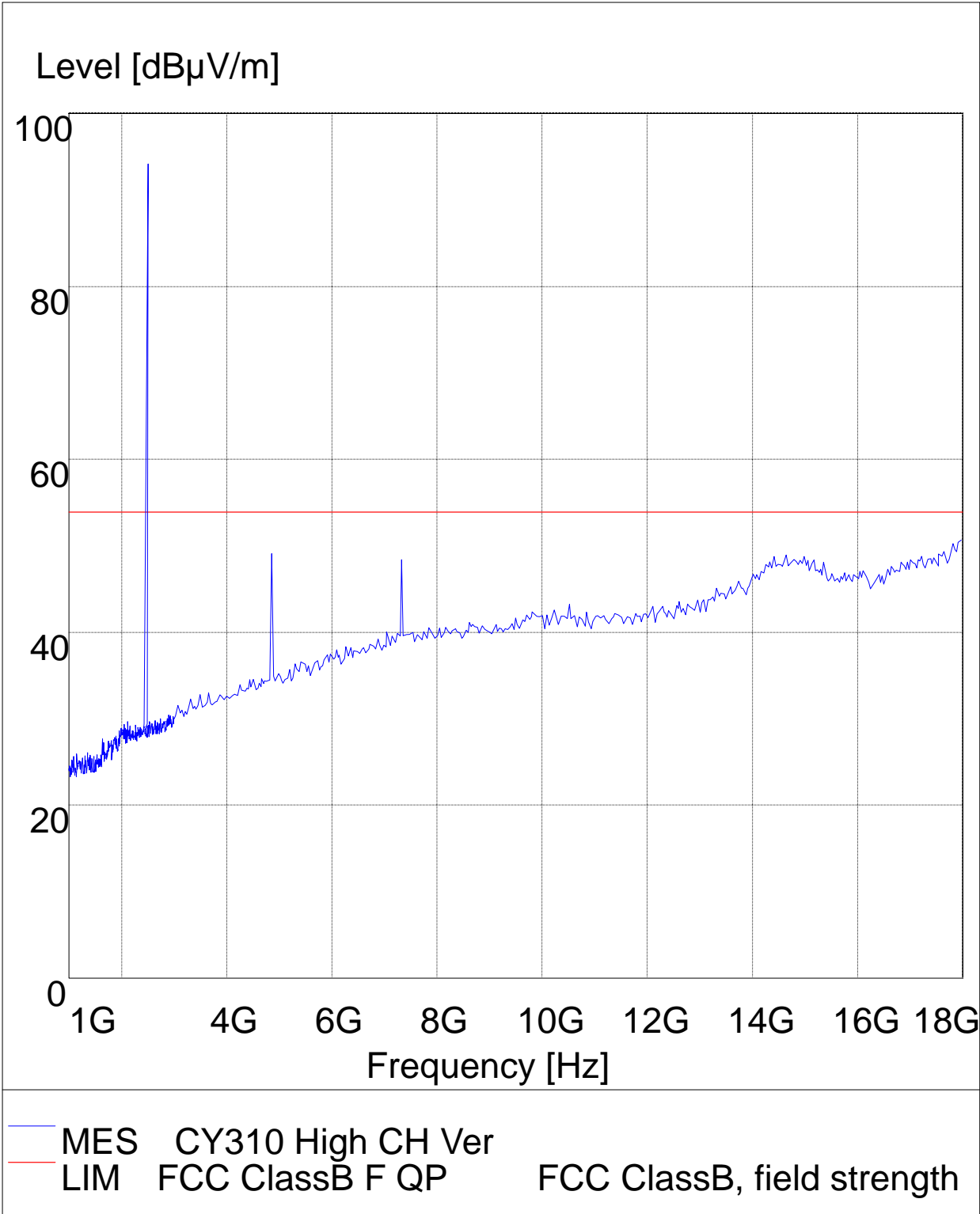
High Channel : Horizontal



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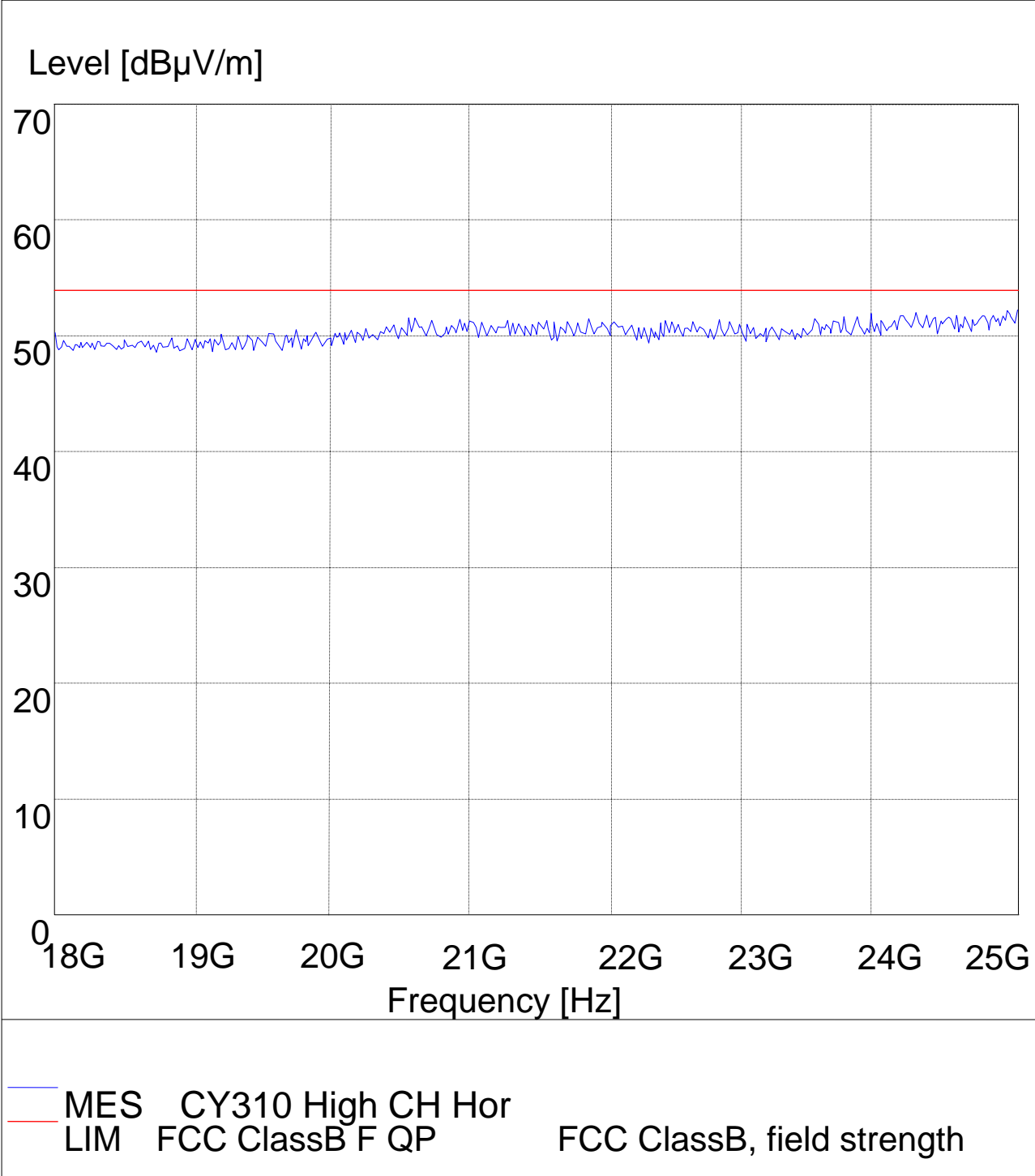
High Channel : Vertical



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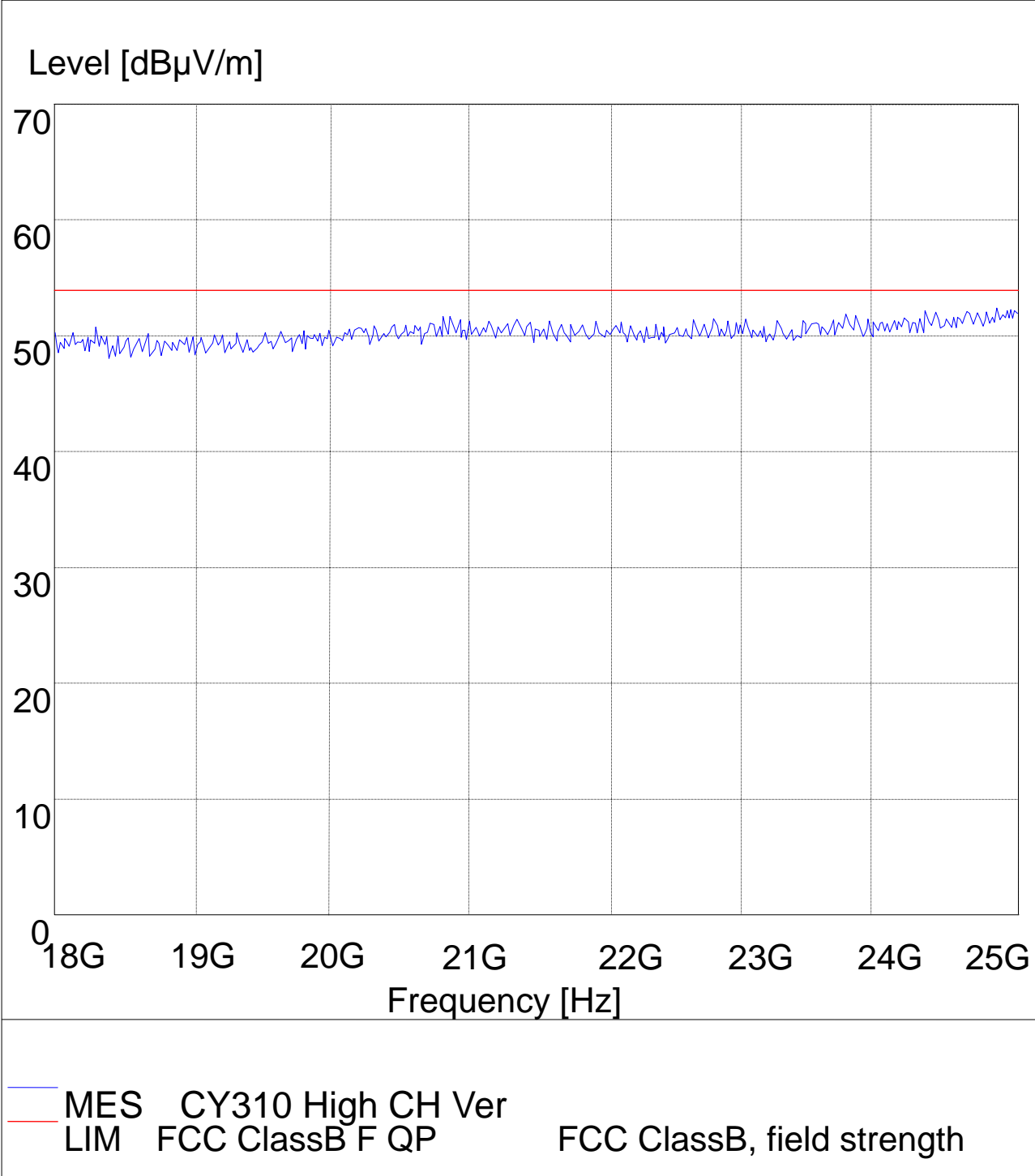
18-25G
CH High Horizontal



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18-25G
CH High Vertical

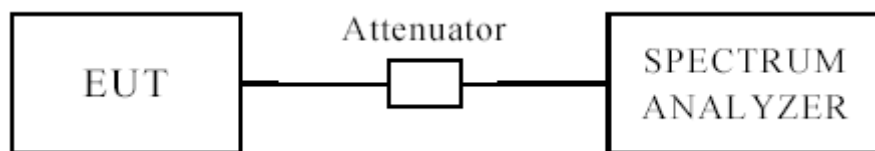


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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500KHz

7.3 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 100 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4 Test Result

EUT	3CH Radio Control		Model	CY310	
Mode	Keep Transmitting		Input Voltage	DC 9.6V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass/ Fail
Low	2403	0.501		0.5	Pass
Mid	2440	0.601		0.5	Pass
High	2477	0.511		0.5	Pass

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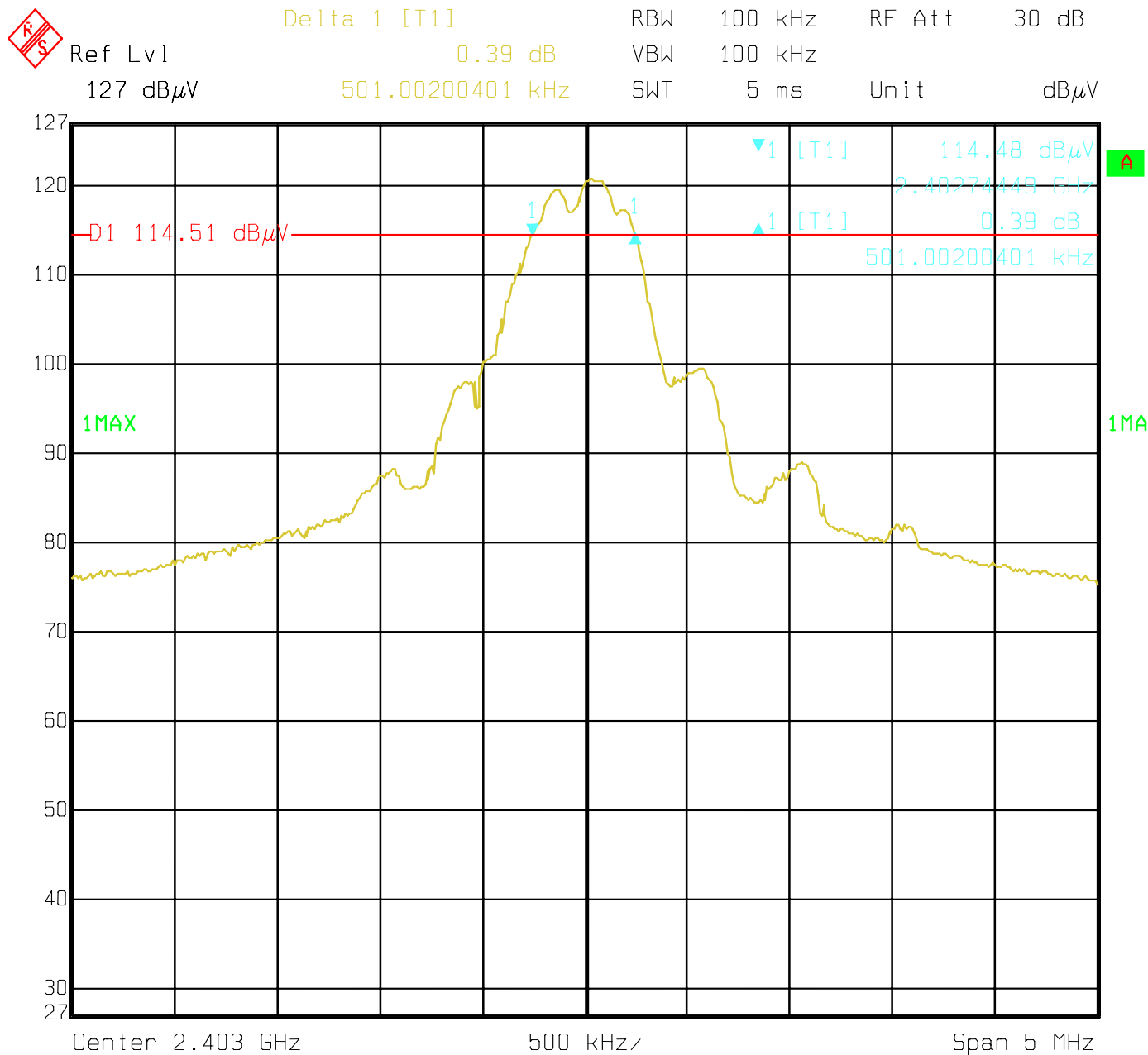
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Test Plots:

1. CH Low



Date: 08.AUG.2010 11:37:47

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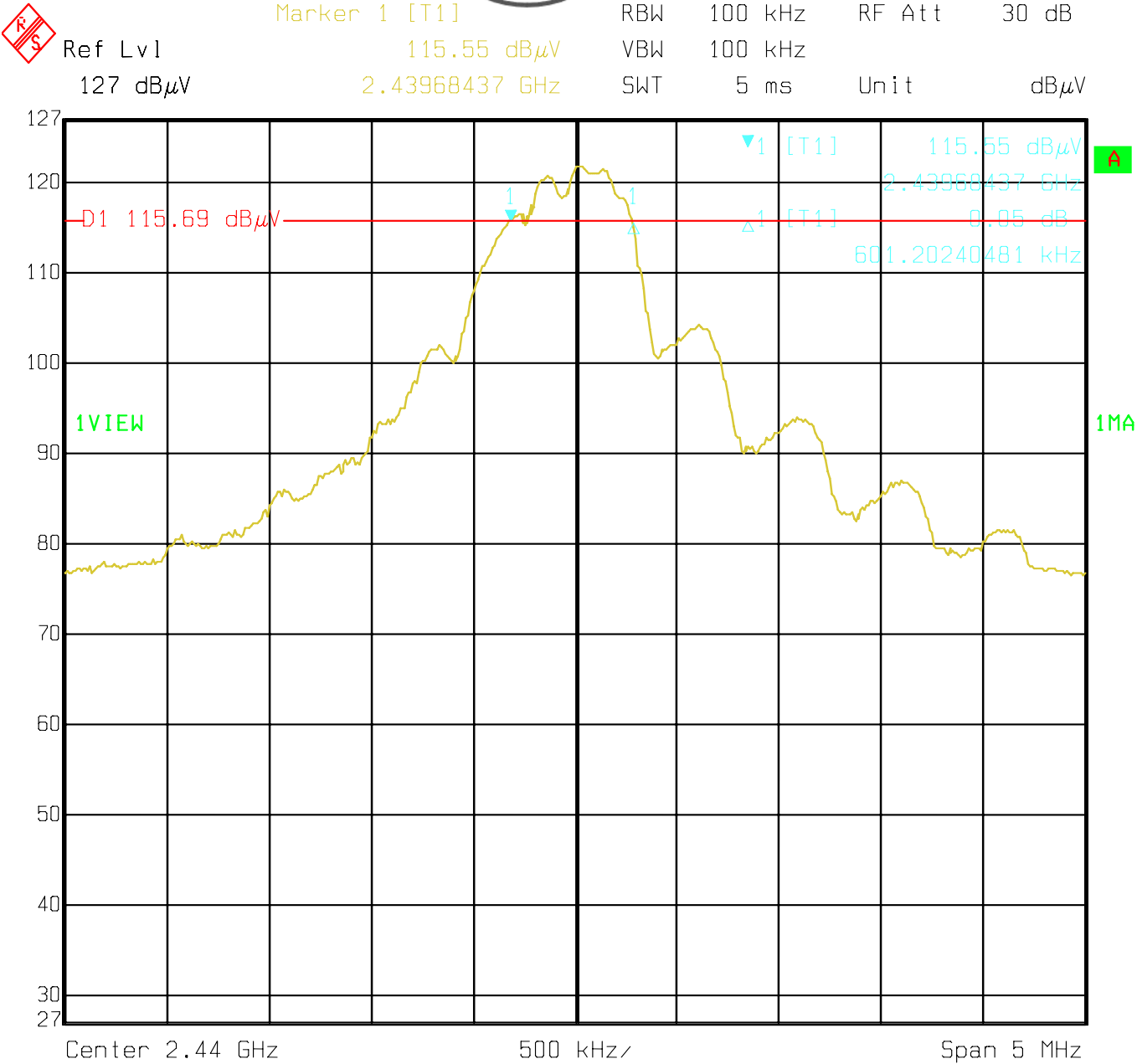
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TEST REPORT

2. CH Mid

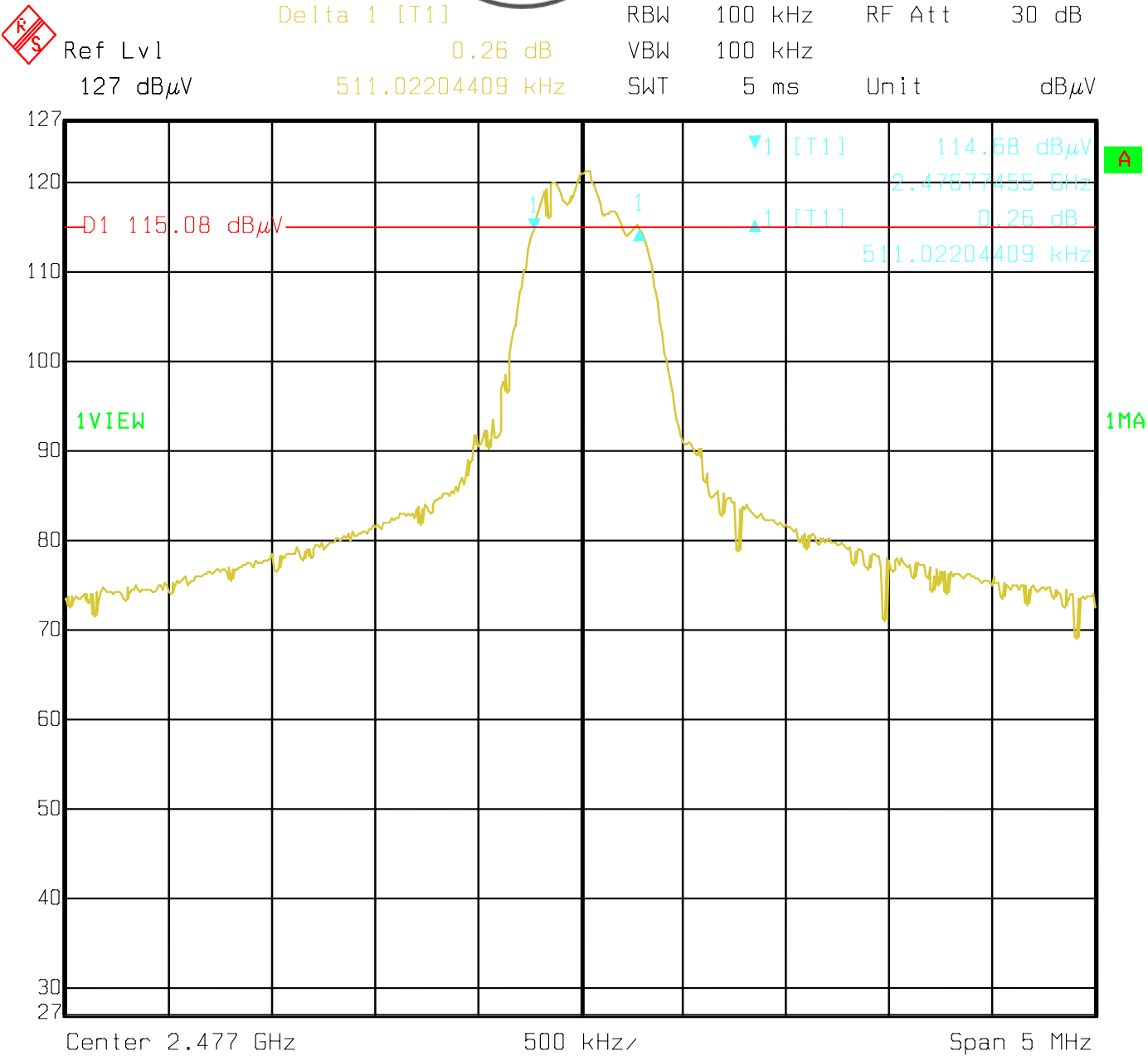


Date: 08.AUG.2010 11:05:12

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3. CH High



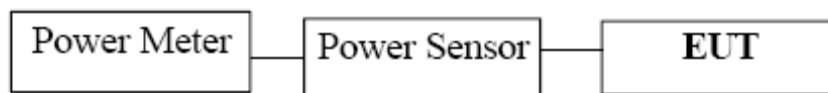
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8. Maximum Peak Output Power

8.1 Test Setup



8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

8.4Test Results

EUT	3CH Radio Control		Model	CY310
Mode	Keep Transmitting		Input Voltage	DC 9.6V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Low	2403	13.64	30	Pass
Mid	2440	14.80	30	Pass
High	2477	14.26	30	Pass

Note: 1. At final test to get the worst-case emission for CH Low, CH Mid and CH High

2. The result basic equation calculation as follow:

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

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

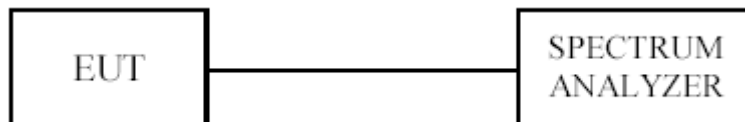
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3KHz RBW and 10kHz VBW, set sweep time=500s

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.

9.4 Test Result

EUT		3CH Radio Control		Model		CY310	
Mode		Keep Transmitting		Input Voltage		DC 9.6V	
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	2403		4.33		8		Pass
Mid	2440		5.11		8		Pass
High	2477		6.56		8		Pass

Note: At final test to get the worst-case emission for CH Low, CH Mid and CH High

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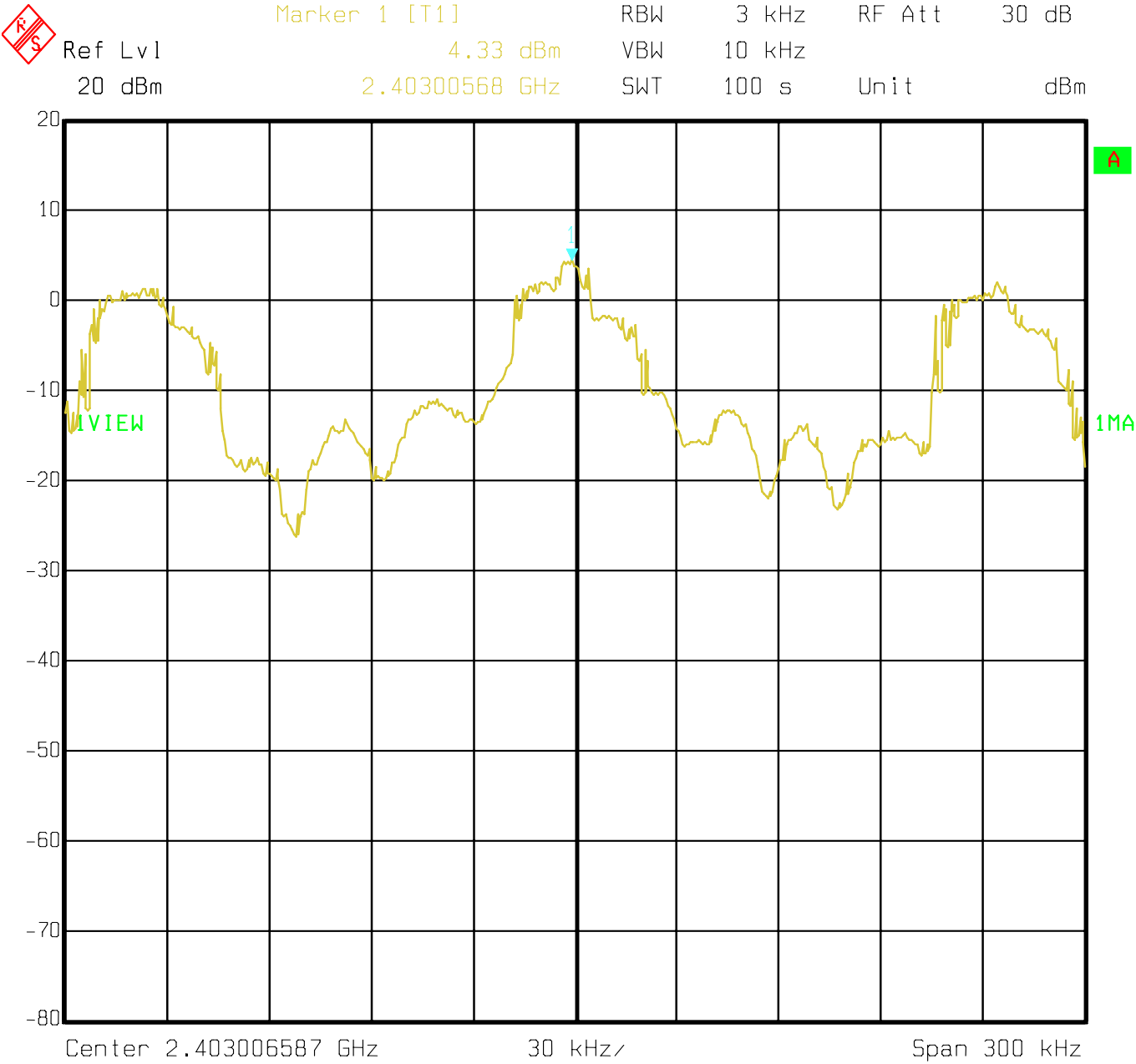
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TEST REPORT

9.5Photo of Power Spectral Density Measurement

1.CH Low




Date: 08.AUG.2010 16:25:22

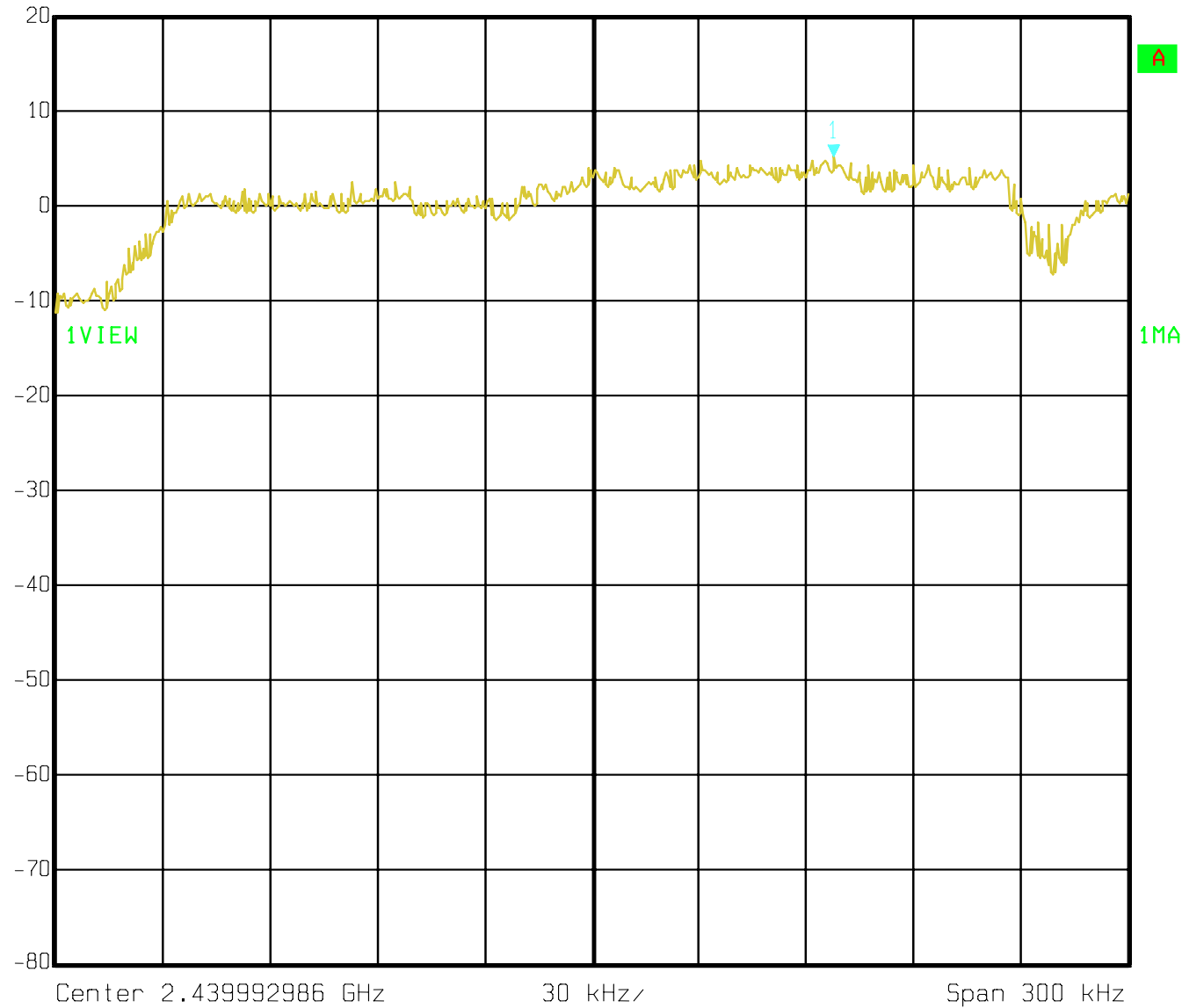
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TEST REPORT

2. CH Mid

 Ref Lvl 20 dBm Marker 1 [T1] 5.11 dBm RBW 3 kHz RF Att 30 dB
2.44006062 GHz VBW 10 kHz Unit dBm
SWT 100 s



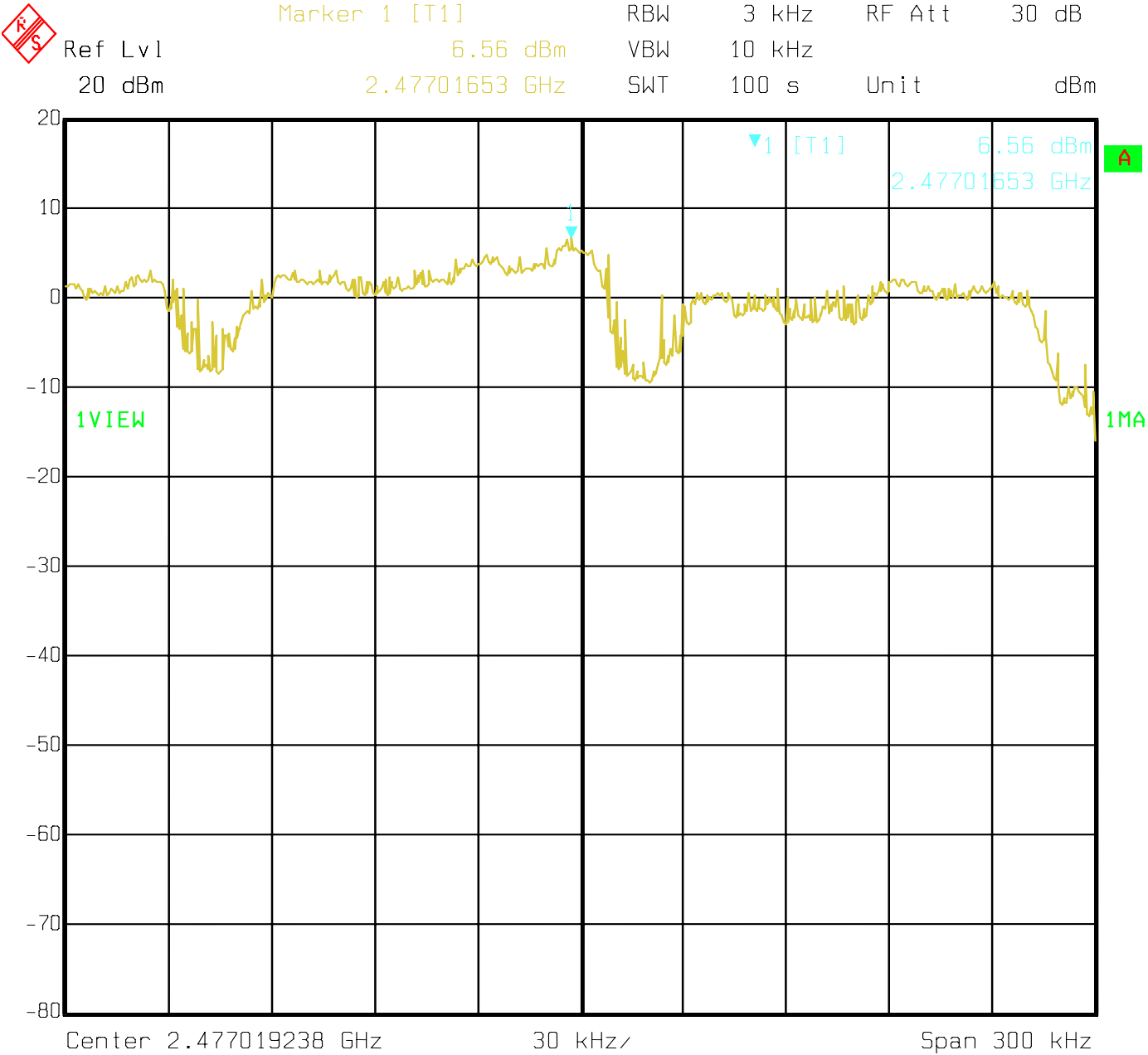
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TEST REPORT

3. CH High



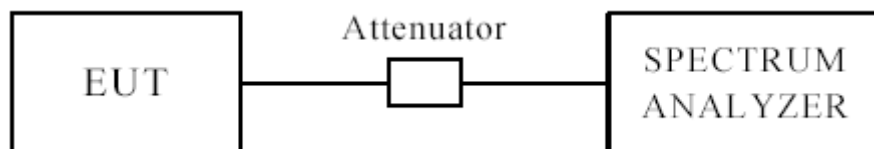
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10 Out of Band Measurement

10.1 Test Setup



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

10.2 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

10.3 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 RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

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

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TEST REPORT

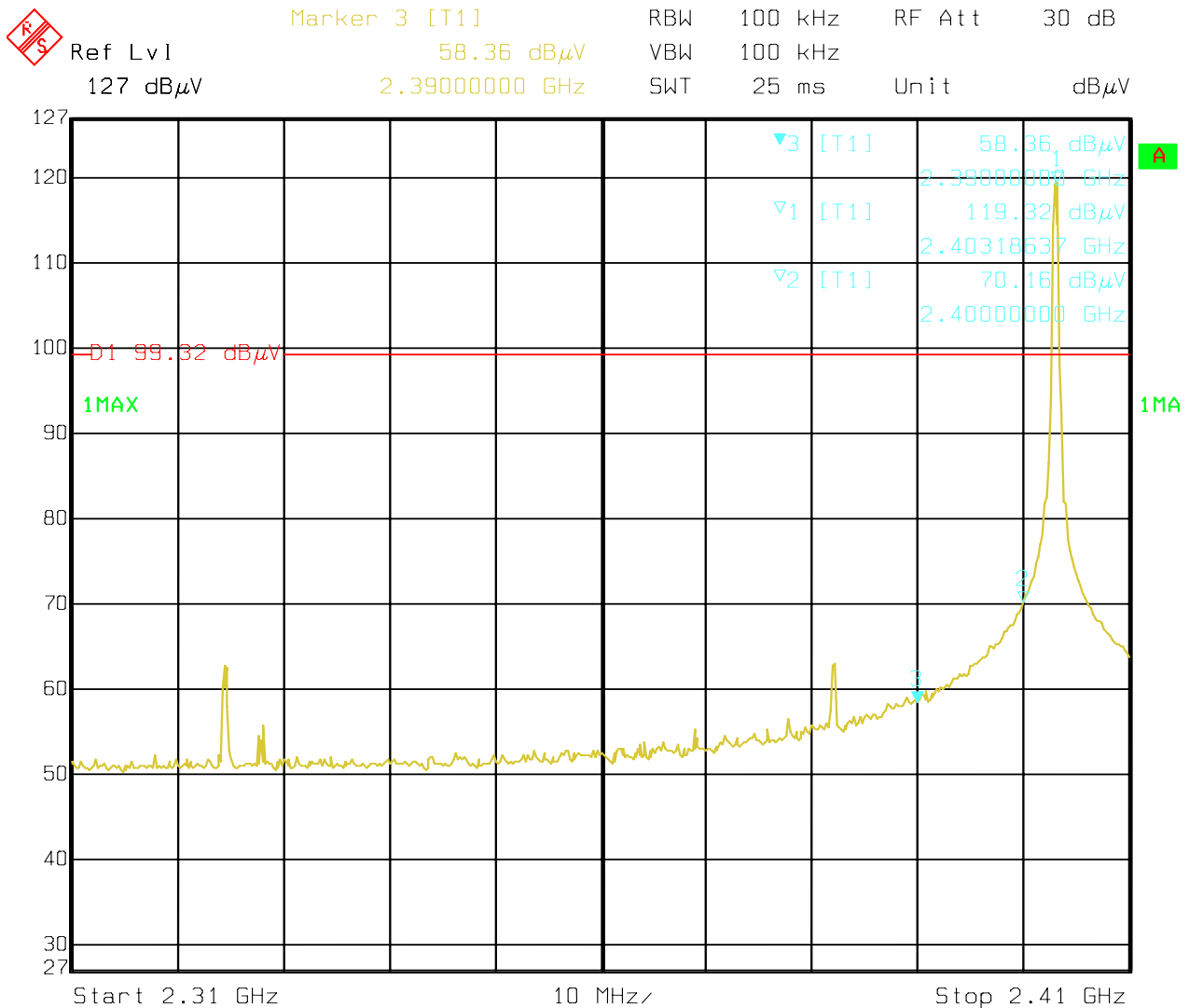
10.4 Test Result

CH Low

10.4 Out of Band Test Result

EUT	3CH Radio Control		Model	CY310
Mode	Keep Transmitting		Input Voltage	DC 9.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	54.6(V)/50.2(H)	Limit	74(dBμV/m)
	AV(dBμV/m)	39.2(V)/36.5(H)		54(dBμV/m)

Test Figure:



Date: 08.AUG.2010 13:32:31

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

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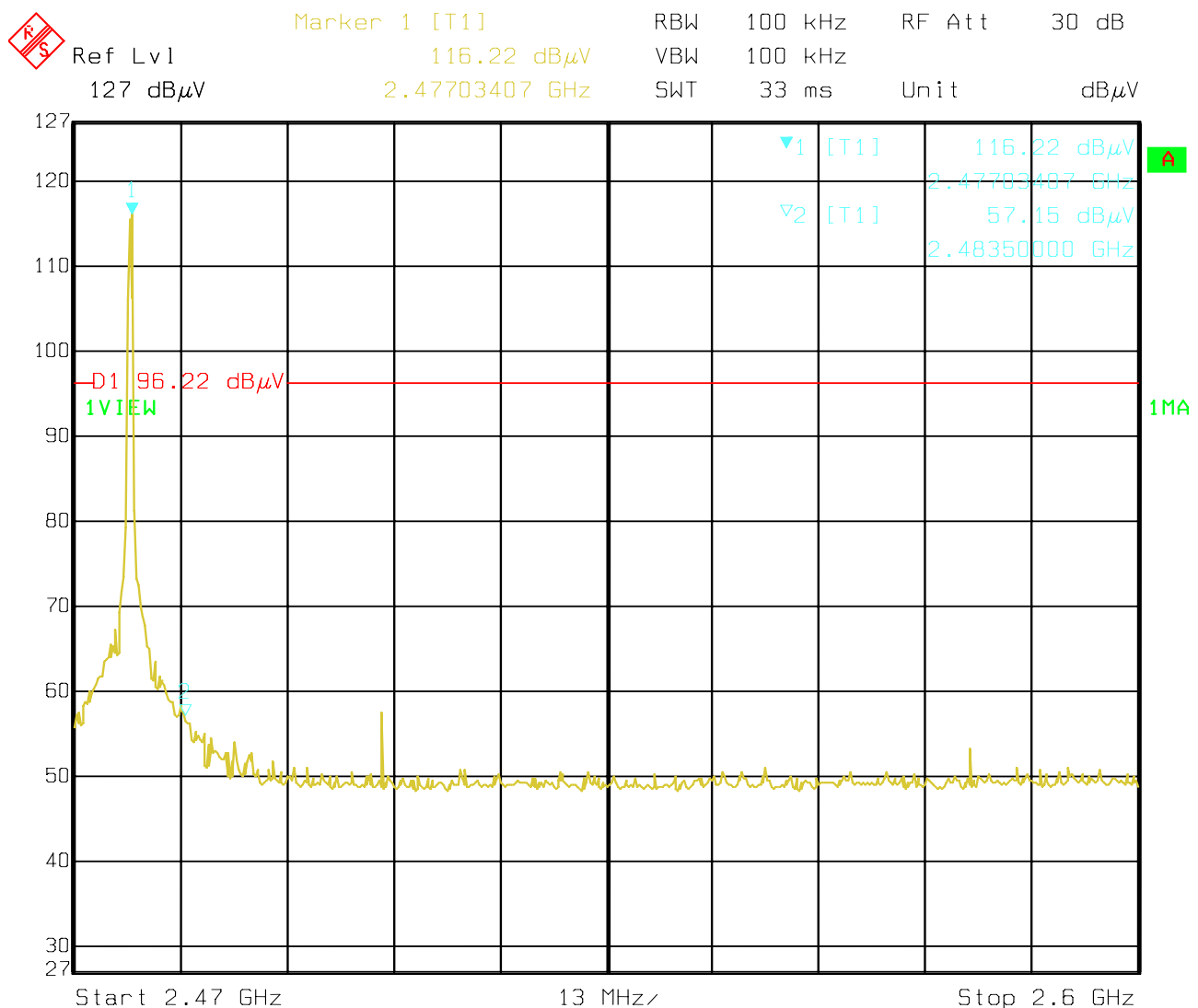


CH High

10.4 Out of Band Test Result

EUT	3CH Radio Control		Model	CY310
Mode	Keep Transmitting		Input Voltage	DC 9.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dBμV/m)	65.7(V)/60.6(H)	Limit	74(dBμV/m)
	AV(dBμV/m)	50.4(V)/46.6(H)		54(dBμV/m)

Test Figure:



Date: 08.AUG.2010 13:41:30

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

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11.0 Antenna Requirement

11.1 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.

11.2 Antenna Connected construction

The antenna is Dipole antenna. The maximum Gain of this antenna is 2.5dBi

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12.0 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.

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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
1.778	14.80	30.1995	0.01068	1	Compiles

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13.0 FCC ID Label

FCC ID: V6K300L

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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14.0 Photo of testing

14.1 Emission Radiated test View--



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14.2 Photo for the EUT

Outside View



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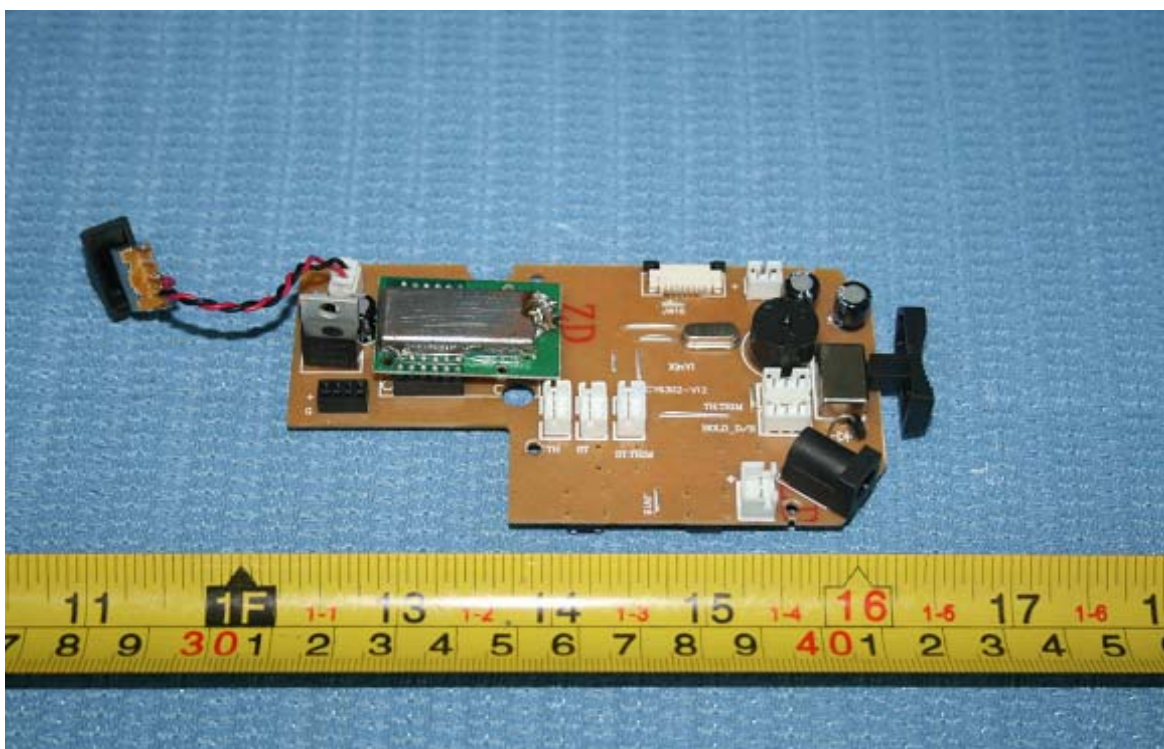
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TEST REPORT

Interior View



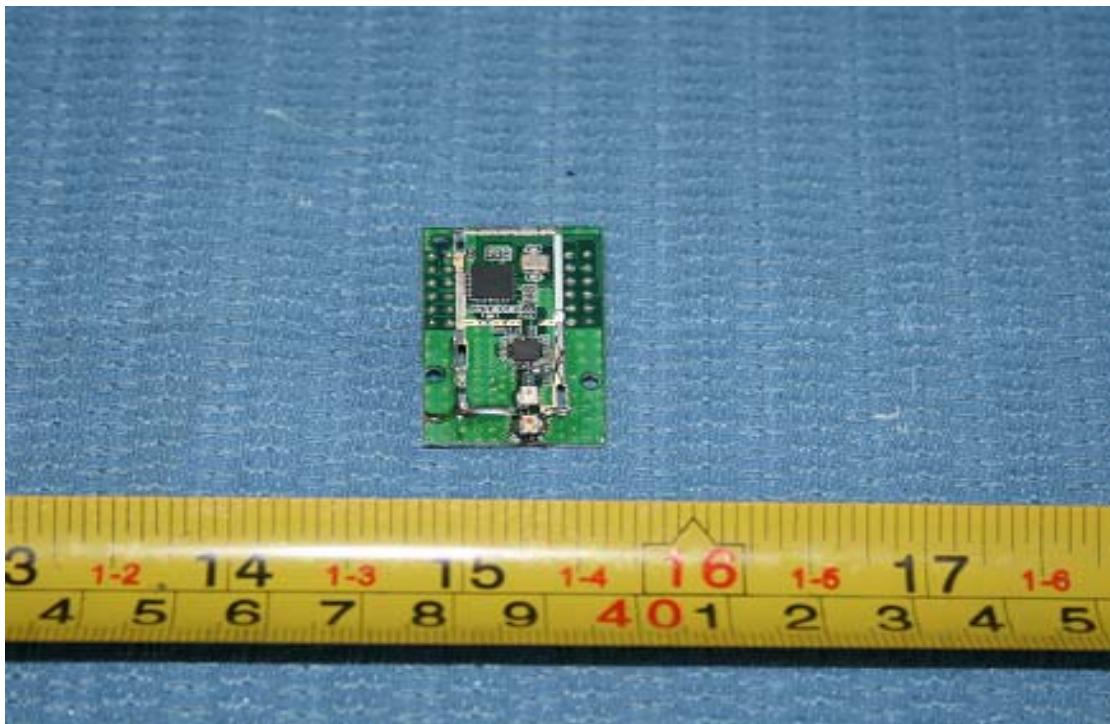
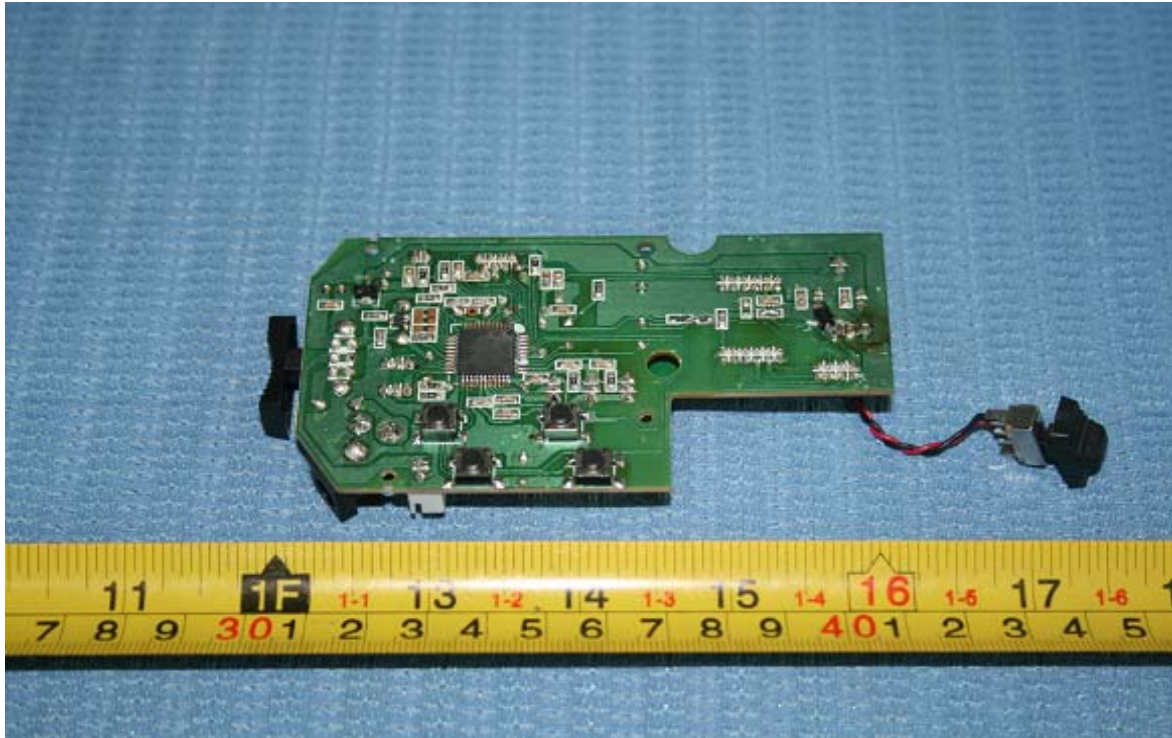
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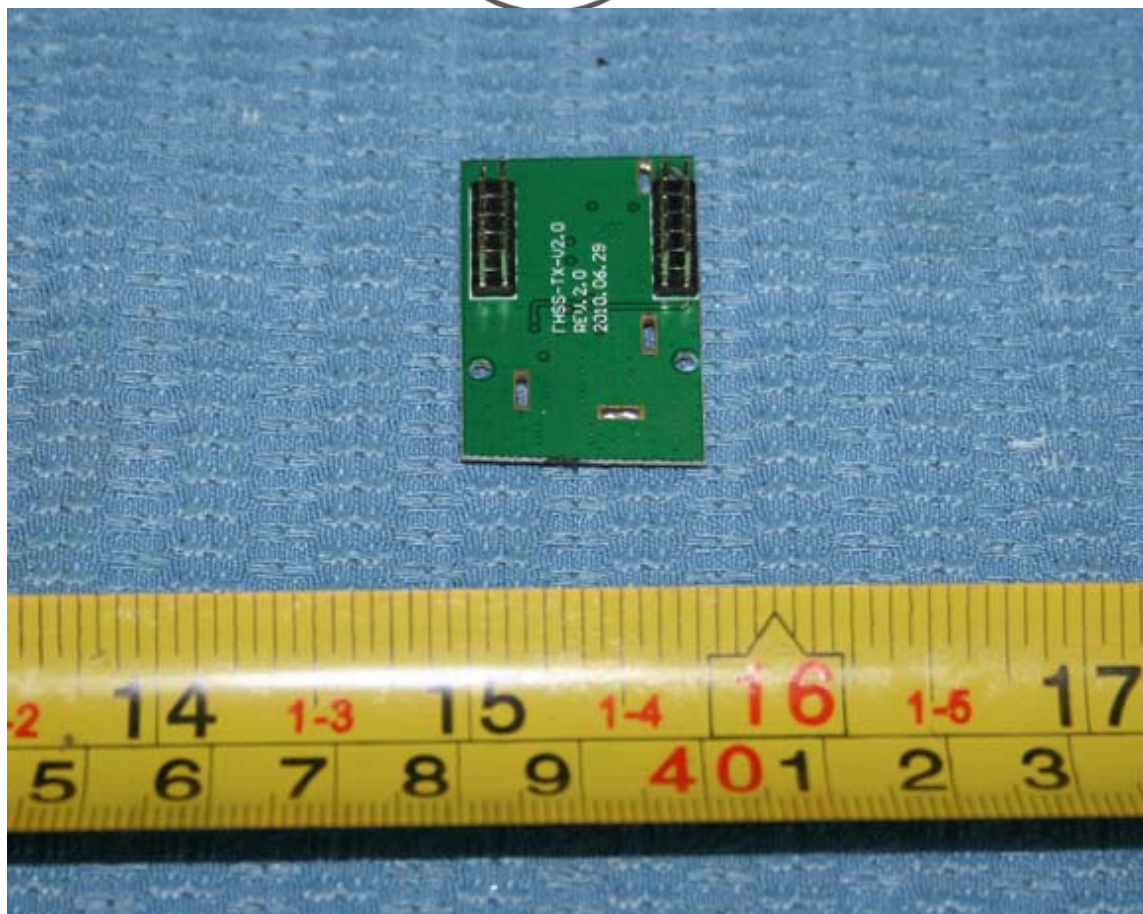
Interior View



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End of the report

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