



Prüfbericht - Nr.: 17016854 001		Seite 1 von 201	
<i>Test Report No.:</i>		<i>Page 1 of 201</i>	
Auftraggeber: <i>Client:</i>		Eastman Kodak Company 343 State Street, Rochester, NY 14650-0124, United States	
Gegenstand der Prüfung: Kodak PULSE Digital Frame <i>Test item:</i>			
Bezeichnung: <i>Identification:</i>	W1030	Serien-Nr.: <i>Serial No.:</i>	n.a.
Wareneingangs-Nr.: <i>Receipt No.:</i>	163065110	Eingangsdatum: <i>Date of receipt:</i>	2010-06-24
Prüfört: <i>Testing location:</i>	Shenzhen Timeway Technology Consulting Co., Ltd. Audix Technology (Shenzhen) Co., Ltd. Refer to Clause 2.1 for details		
Prüfgrundlage: <i>Test specification:</i>	FCC CFR47 Part 15: Subpart C Section 15.247 FCC CFR47 Part 15: Subpart C Section 15.207 FCC CFR47 Part 15: Subpart C Section 15.209 FCC CFR47 Part 15: Subpart B Section 15.107 FCC CFR47 Part 15: Subpart B Section 15.109		
Prüfergebnis: <i>Test Result:</i>	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>		
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.		
geprüft/ tested by:		kontrolliert/ reviewed by:	
			
2010-08-10	Owen Tian/Project Manager	2010-08-11	Sam Lin/Technical Certifier
<i>Datum</i> <i>Date</i>	<i>Name/Stellung</i> <i>Name/Position</i>	<i>Unterschrift</i> <i>Signature</i>	<i>Datum</i> <i>Date</i>
	<i>Name/Stellung</i> <i>Name/Position</i>	<i>Unterschrift</i> <i>Signature</i>	
Sonstiges/ Other Aspects:			
Abkürzungen:	P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	Abbreviations:	P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Passed***5.1.2 PEAK OUTPUT POWER***RESULT: Passed***5.1.3 6dB BANDWIDTH***RESULT: Passed***5.1.4 100KHZ BANDWIDTH OF FREQUENCY BAND EDGE***RESULT: Passed***5.1.5 POWER SPECTRAL DENSITY***RESULT: Passed***5.1.6 SPURIOUS EMISSION***RESULT: Passed***5.1.7 RESTRICTED BANDS***RESULT: Passed***5.1.8 RADIATED EMISSIONS***RESULT: Passed***5.1.9 CONDUCTED EMISSIONS***RESULT: Passed*

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

2. Test Sites

2.1 Test Facilities

Shenzhen Timeway Technology Consulting Co., Ltd.

(FCC Registration No.: 899988)

East 5/F Block 4, Anhua Industrial park, No.8,
Tai Ran Rd. CheGongMiao, Futian District, Shenzhen,
Guangdong 518040, P.R. China

AUDIX Technology (Shenzhen) Co., Ltd.

(FCC Registration No.: 90454)

No. 6, Ke Feng Road, Block 52
Shenzhen Science & Industry Park
Nantou, Shenzhen
Guangdong, P.R. China

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions & Receiver spurious emissions test (9kHz - 1GHz) (AUDIX)				
3#Chamber	AUDIX	N/A	N/A	2010-12-05
EMI Spectrum	Agilent	E4407B	MY41440292	2011-05-08
Test Receiver	Rohde & Schwarz	ESVS10	834468/011	2011-05-08
Amplifier	HP	8447D	2648A04738	2011-05-08
Bilog Antenna	Schaffner	CBL6111C	2598	2010-12-09
RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	2011-05-08
Coaxial Switch	Anritsu	MP59B	M73989	2011-05-08
Triple-loop Antenna	Rohde & Schwarz	HM020	843885/002	2011-05-10
Transmitter spurious emissions & Receiver spurious emissions test (above 1GHz) (AUDIX)				
Spectrum Analyzer	Agilent	E4446A	US44300459	2011-05-08
Horn Antenna	EMCO	3115	9510-4580	2010-11-19
Horn Antenna	EMCO	3116	00060088	2010-11-09
Amplifier	Agilent	8449B	3008A00863	2011-05-08
RF Cable	Hubersuhner	SUCOFLEX102	28620/2	2011-05-08
RF Cable	Hubersuhner	SUCOFLEX102	28618/2	2011-05-08
RF Cable	Hubersuhner	SUCOFLEX102	28610/2	2011-05-08
Radio spectrum test (Timeway)				
Spectrum Analyzer	Rohde & Schwarz	FSEM	848597/001	2011-04-21
Temperature and Humidity Cabinet	ESPEC	GZ-ESPEC/EL-02AGP	0205082	2011-08-06
Power Supply	LRTEAC	TDGC2-10	0205086	N/A
Conducted Emission (Timeway)				
Receiver	R&S	EH 3	860905/006	2011-04-24
Artificial Mains Network	R&S	ESH3-Z5	100294	2011-04-24
Radiated Emission (3m Chamber) (30MHz - 2GHz) (Timeway)				
Receiver	R&S	ESPI 3	100379	2011-04-24
Ultra Broadband ANT	R&S	HL562	100157	2011-04-24

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Shenzhen Timeway Technology Consulting Co., Ltd. test facility located at East 5/F Block 4, Anhua Industrial park, No.8, Tai Ran Rd. CheGongMiao, Futian District, Shenzhen, Guangdong 518040, P.R. China and AUDIX Technology (Shenzhen) Co., Ltd. test facility located at No. 6, Ke Feng Road, Block 52, Shenzhen Science & Industry Park, Nantou, Shenzhen, Guangdong, P.R. China are listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

Kodak PULSE Digital Frame – W1030 is a display product with Wi-Fi system. The Wi-Fi is designed for IEEE802.11b/g wireless local area networks (WLANs) applications. It supports data rate 6, 9, 12, 18, 24, 36, 48 and 54Mbps/s in OFDM mode, 5.5 and 11Mbps/s in CCK mode, 1Mbps/s in DBPSK mode, 2Mbps/s in DQPSK mode. This product will provide the basic value proposition of viewing user pictures & video on a screen larger than the back of the camera without having to sit in front of the PC.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	Kodak PULSE Digital Frame
Type Designation:	W1030
FCC ID	PA4PUL1030
IC ID	1016B-PUL1030
Rated Input Power	DC 5V (via AC/DC adapter)
Rated input Current	2A

Table 3: Technical Specification of WiFi module (802.11b/g)

Item	Description	
	IEEE 802.11b	IEEE 802.11g
Operating Frequency band	2400 – 2483.5 MHz	
Channel Number	11	
Channel Bandwidth (MHz)	20	
Modulation	DBPSK, DQPSK, CCK	OFDM
Data Rate (Mbps)	1/2/5.5/11	6/9/12/18/24/36/48/54
Antenna	Integrated Antenna	
Antenna Gain (dBi)	2.0	

Table 4: Technical Specification of Carrier Frequency

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400 – 2483.5 MHz	1	2412MHz	7	2437MHz
	2	2417MHz	8	2447MHz
	3	2422MHz	9	2452MHz
	4	2427MHz	10	2457MHz
	5	2432MHz	11	2462MHz
	6	2437MHz		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Wi-Fi mode
 - a. transmitting
 - b. receiving
 - 2. Inter-memory mode
 - 3. USB mode
 - 4. Memory card mode
- B. Stand by
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

4.3 Special Accessories and Auxiliary Equipment

Table 5: Interfaces and Cables

Description	Specification	Length
USB port	USB Host interface, 4 cores, shielded	--
SD/SDHC/MMC/MS/XD Card slot	Memory card interface	--
MS/MS Pro Duo Card slot	Memory card interface	--

Table 6: Test Auxiliary Equipments

Description	Manufacturer	Model	Specification
AC/DC Adaptor	WANLIDA Group Co., Ltd.	MPA-520	Input: AC 100-240V, 50/60Hz Output: DC 5V, 2A

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

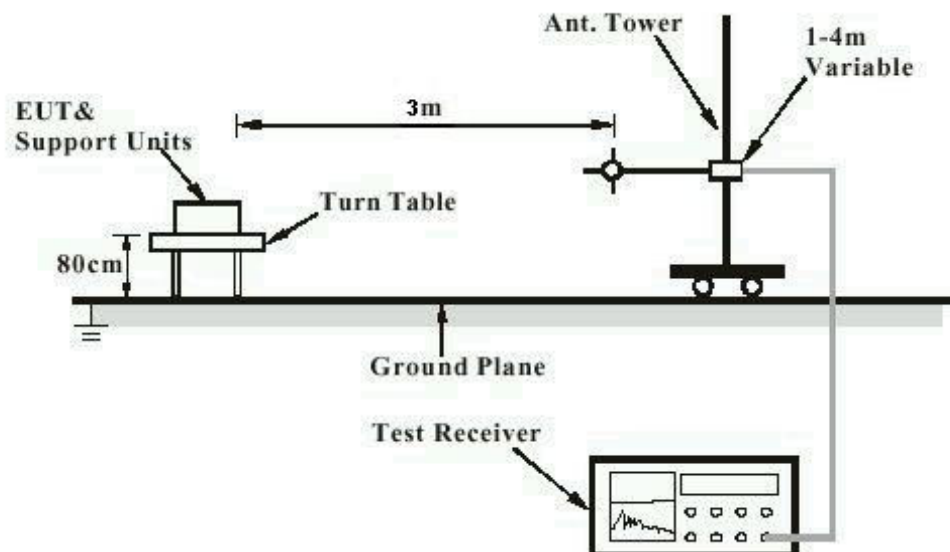


Diagram of Measurement Equipment Configuration for Conduction Measurement

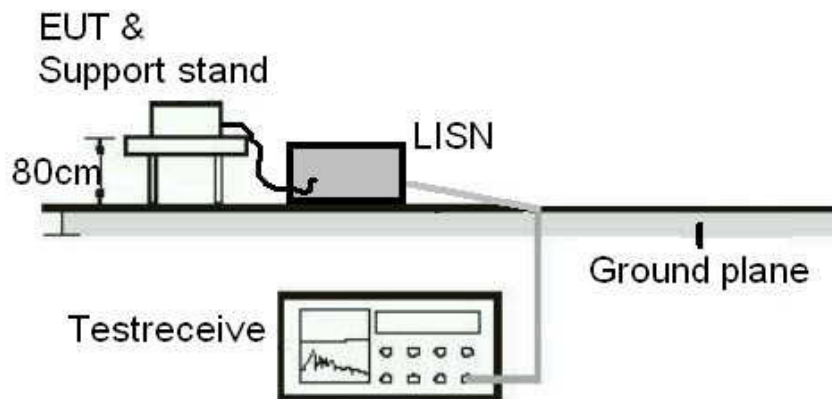
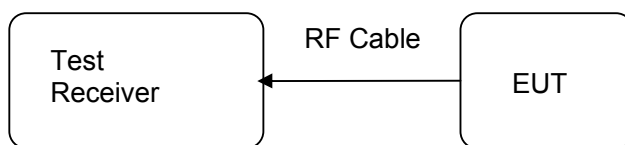


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Passed**

Test standard : FCC Part 15.247(b)(4) and Part 15.203
Limit : the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 2.0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

5.1.2 Peak Output Power

RESULT:
Passed

Test date : 2010-06-20
 Test standard : FCC Part 15.247(b)(1)
 Basic standard : ANSI C63.4: 2003
 Limit : 1 Watt
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 7: Test result of Peak Output Power, 802.11b 1Mbps

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2412	14.75	0.029854	1
Middle Channel	2437	19.26	0.084333	1
High Channel	2462	19.03	0.079983	1

Table 8: Test result of Peak Output Power, 802.11b 5.5Mbps

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2412	15.89	0.038815	1
Middle Channel	2437	20.35	0.108393	1
High Channel	2462	20.03	0.100693	1

Table 9: Test result of Peak Output Power, 802.11b 11Mbps

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2412	17.16	0.052000	1
Middle Channel	2437	21.59	0.144212	1
High Channel	2462	21.34	0.136144	1

Table 10: Test result of Peak Output Power, 802.11g 6Mbps

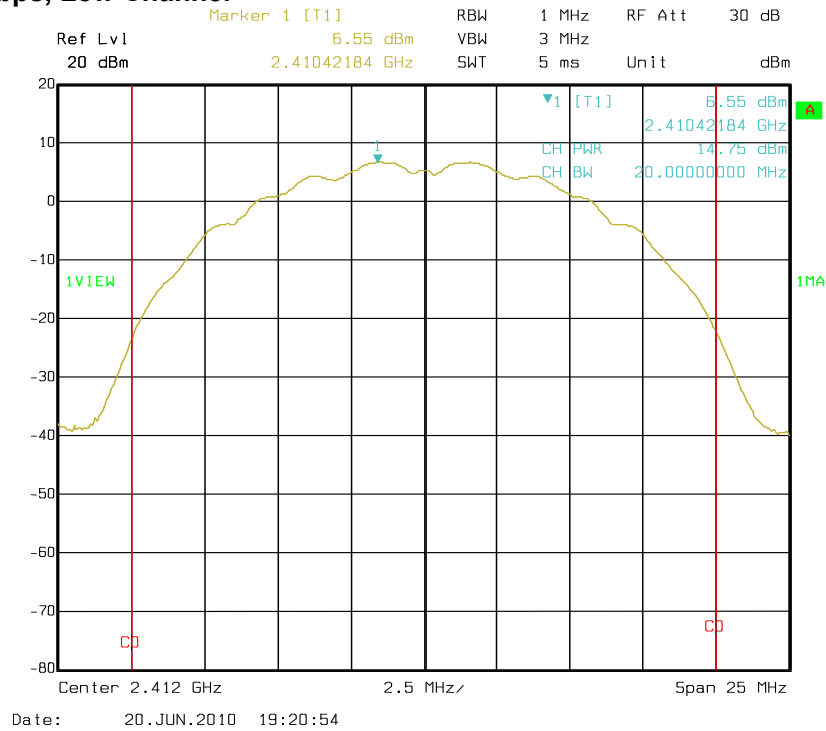
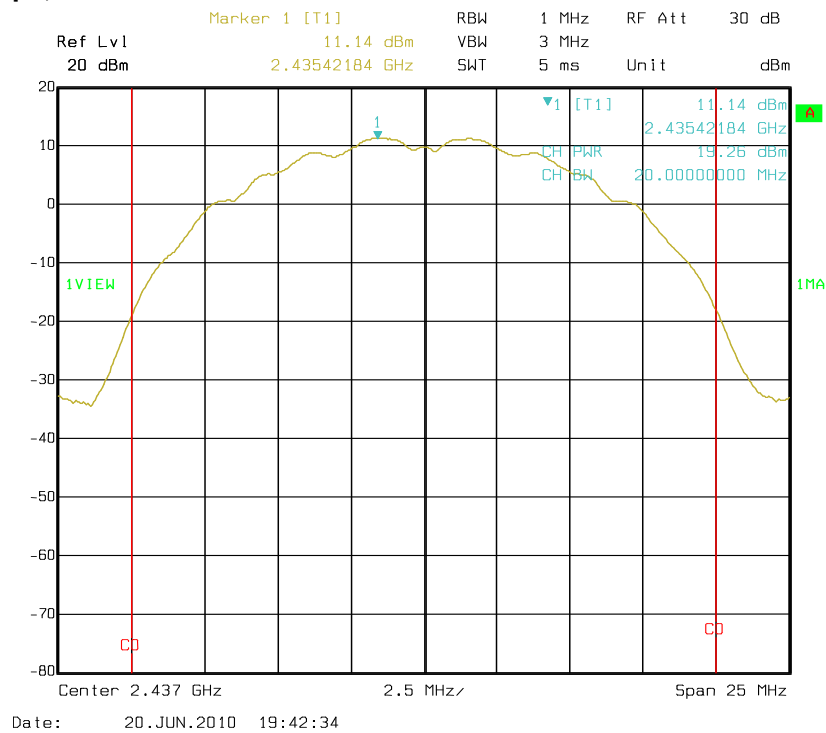
Channel	Channel Frequency (MHz)	Peak Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2412	17.82	0.060534	1
Middle Channel	2437	22.15	0.164059	1
High Channel	2462	21.92	0.155597	1

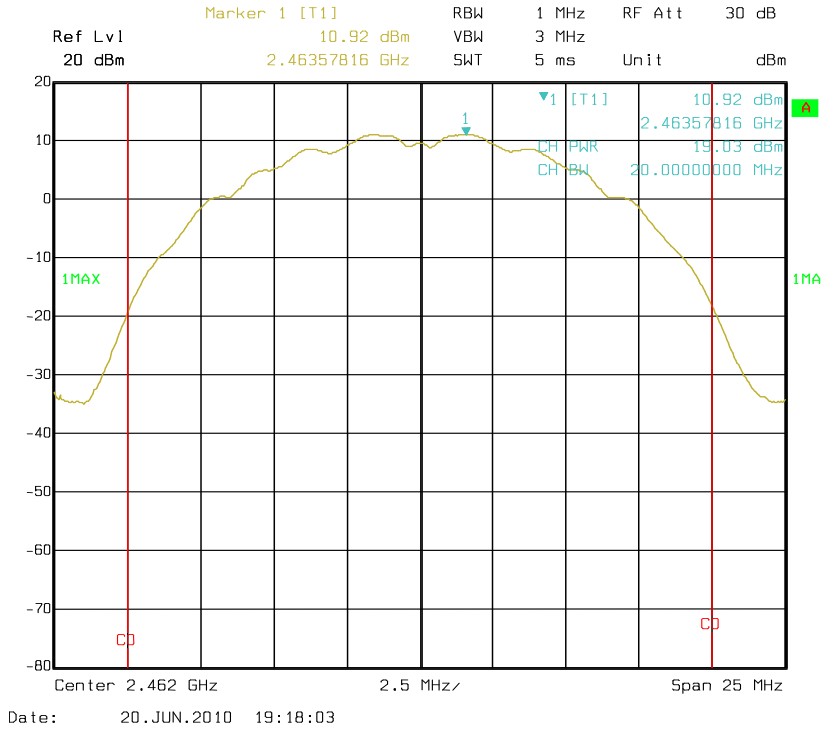
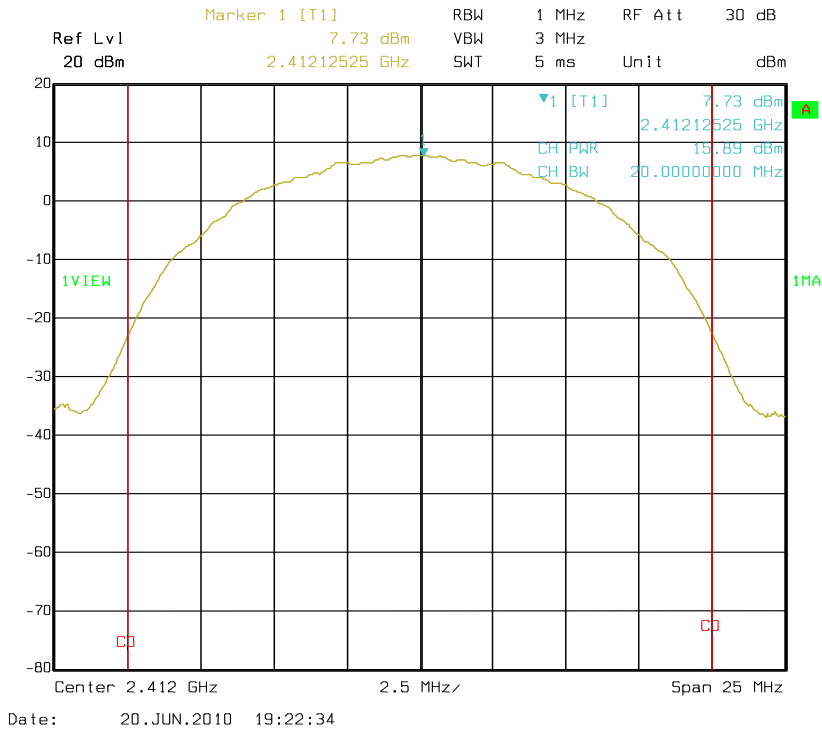
Table 11: Test result of Peak Output Power, 802.11g 24Mbps

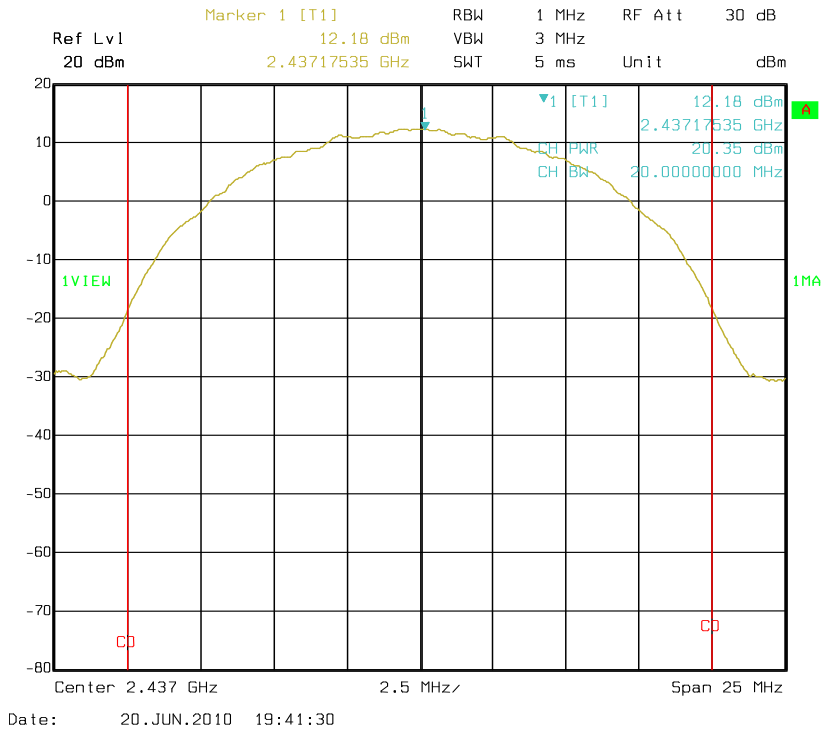
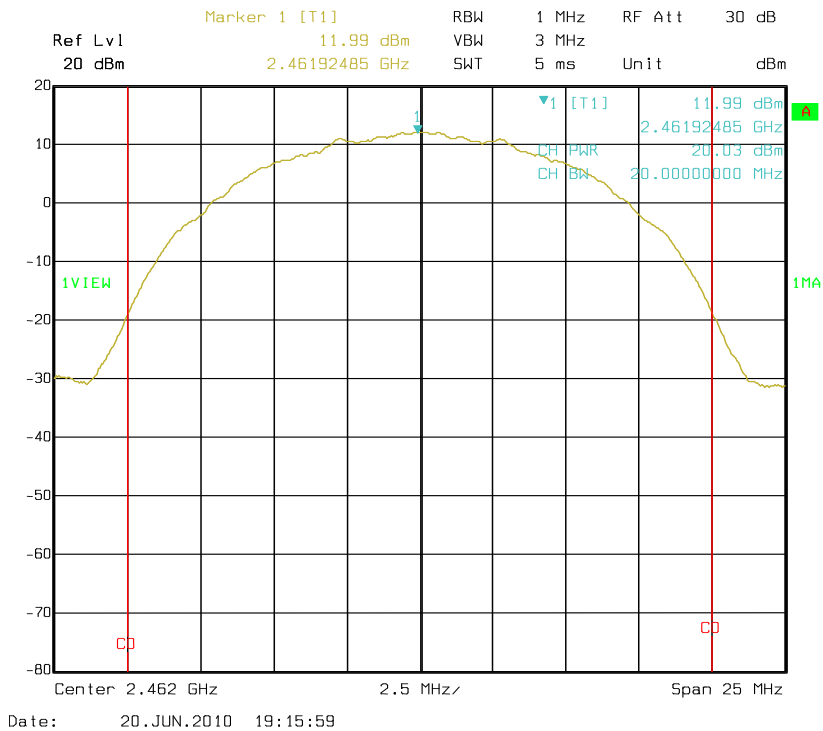
Channel	Channel Frequency (MHz)	Peak Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2412	18.55	0.071614	1
Middle Channel	2437	21.01	0.12618	1
High Channel	2462	22.56	0.180302	1

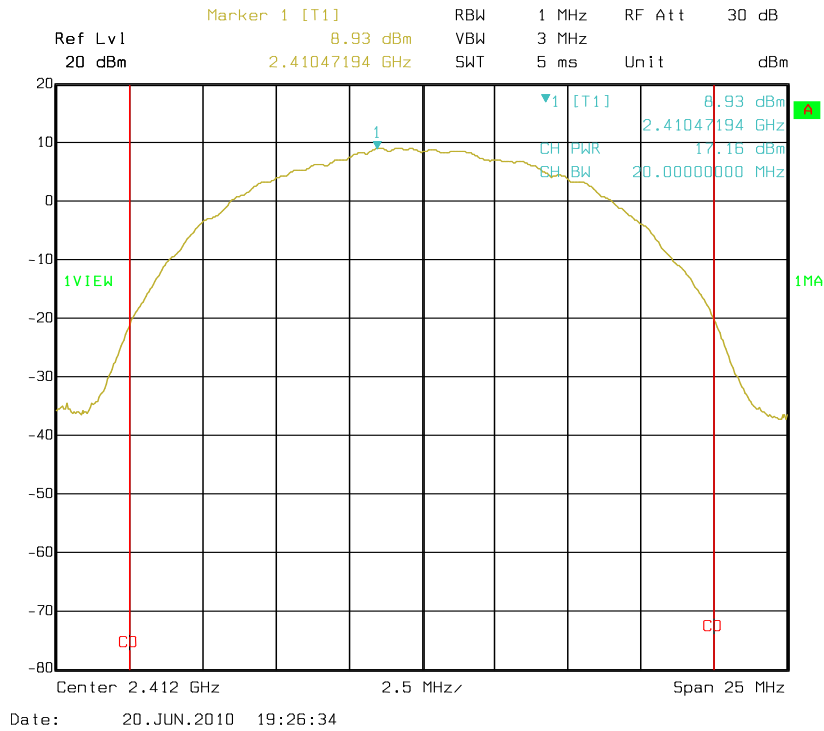
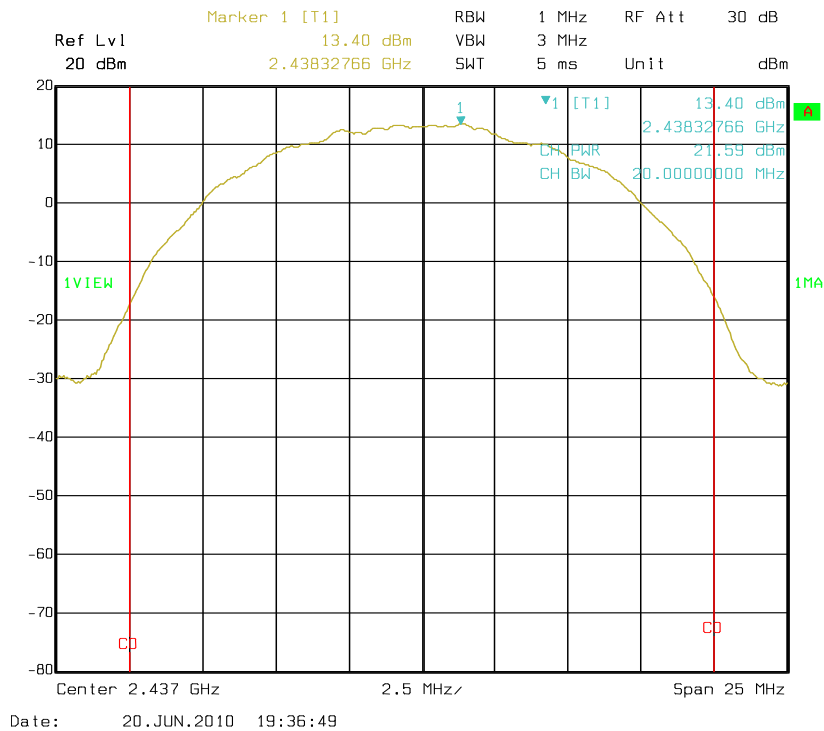
Table 12: Test result of Peak Output Power, 802.11g 54Mbps

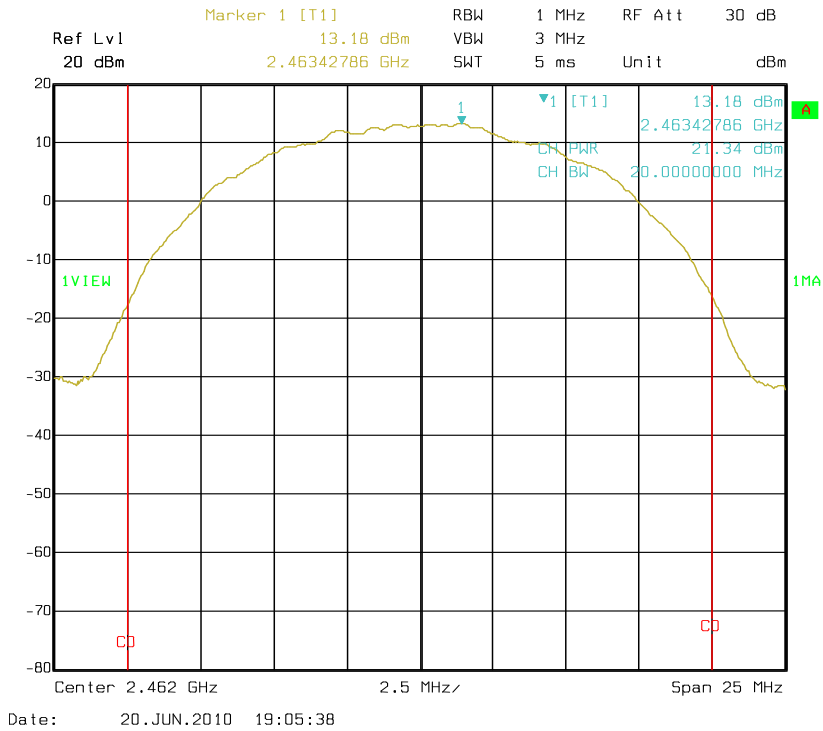
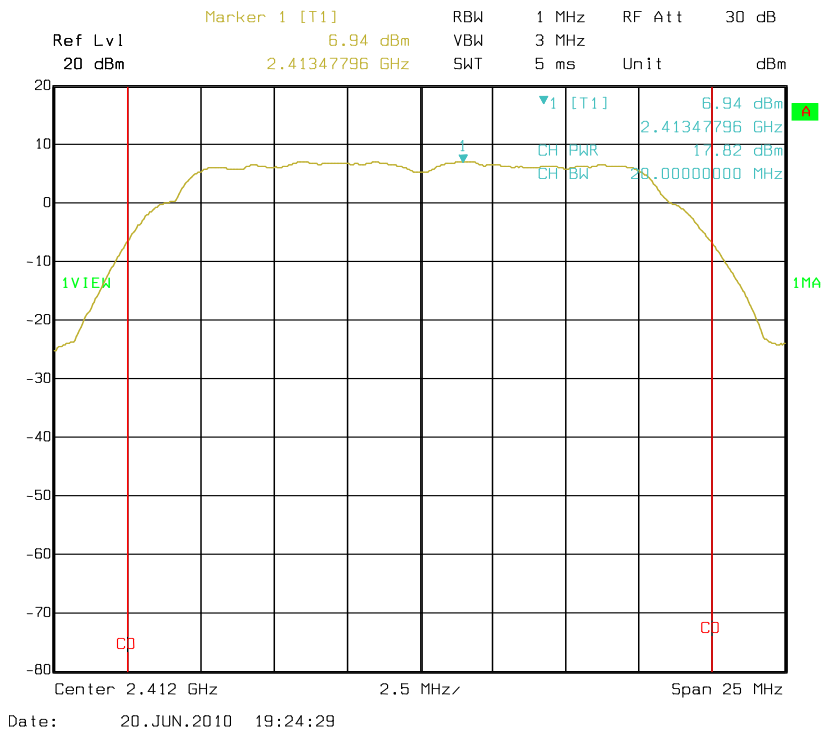
Channel	Channel Frequency (MHz)	Peak Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2412	16.59	0.045604	1
Middle Channel	2437	21.11	0.129122	1
High Channel	2462	20.65	0.116145	1

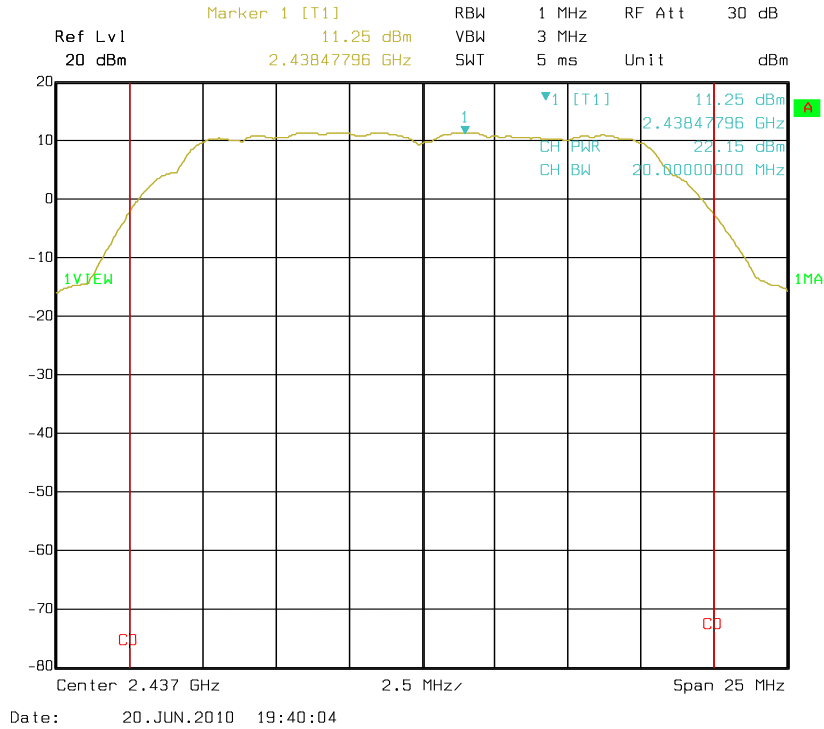
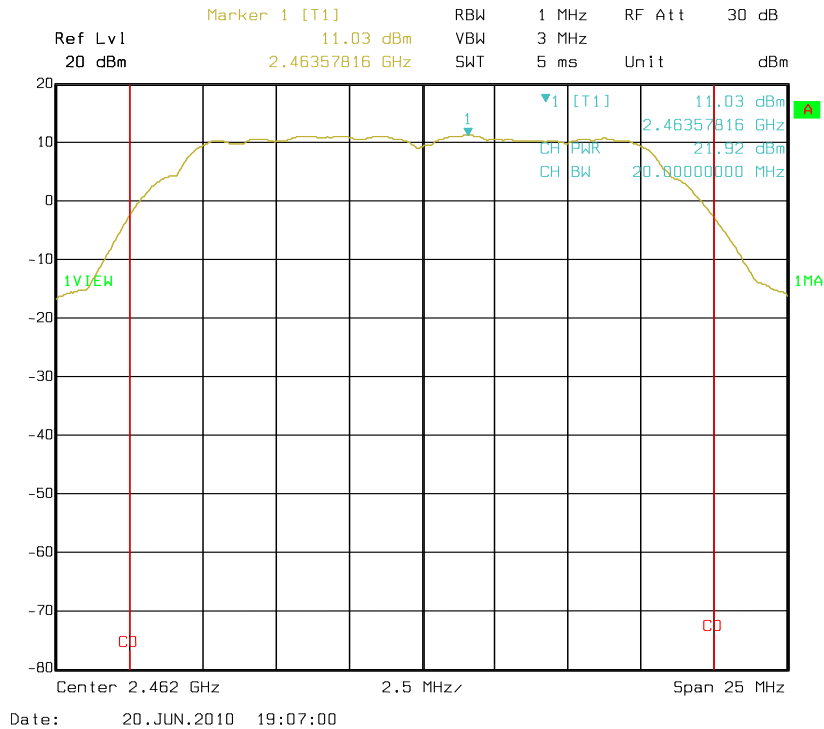
Test Plot of Peak Output Power
802.11b 1Mbps, Low Channel

802.11b 1Mbps, Middle Channel


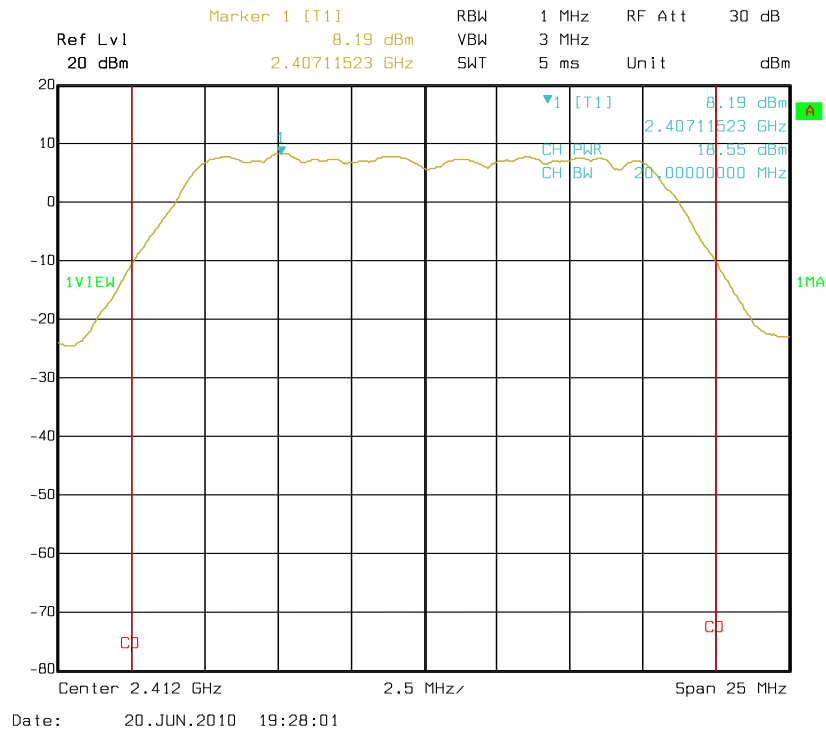
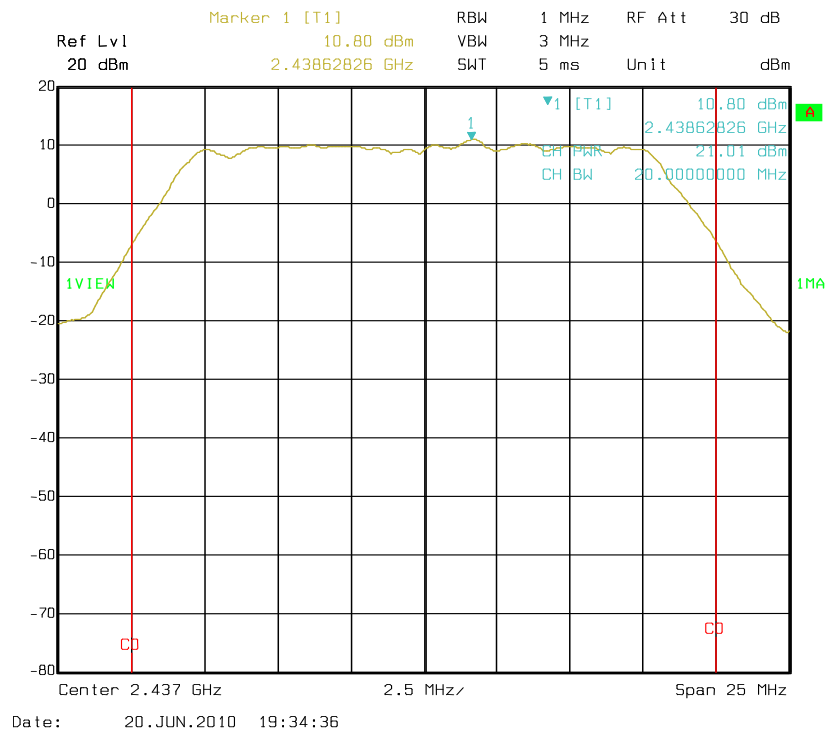
802.11b 1Mbps, High Channel

802.11b 5.5Mbps, Low Channel


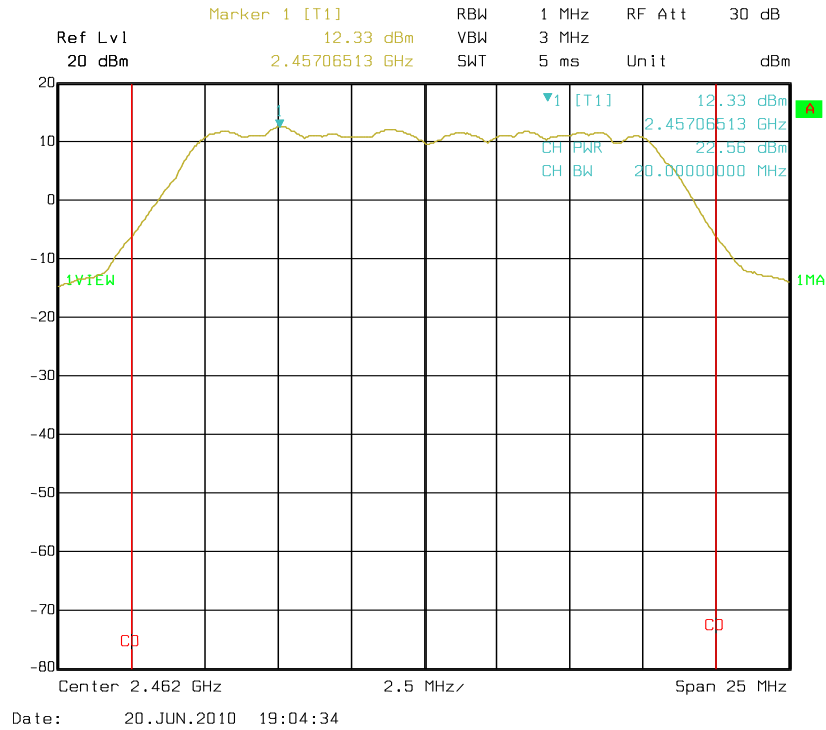
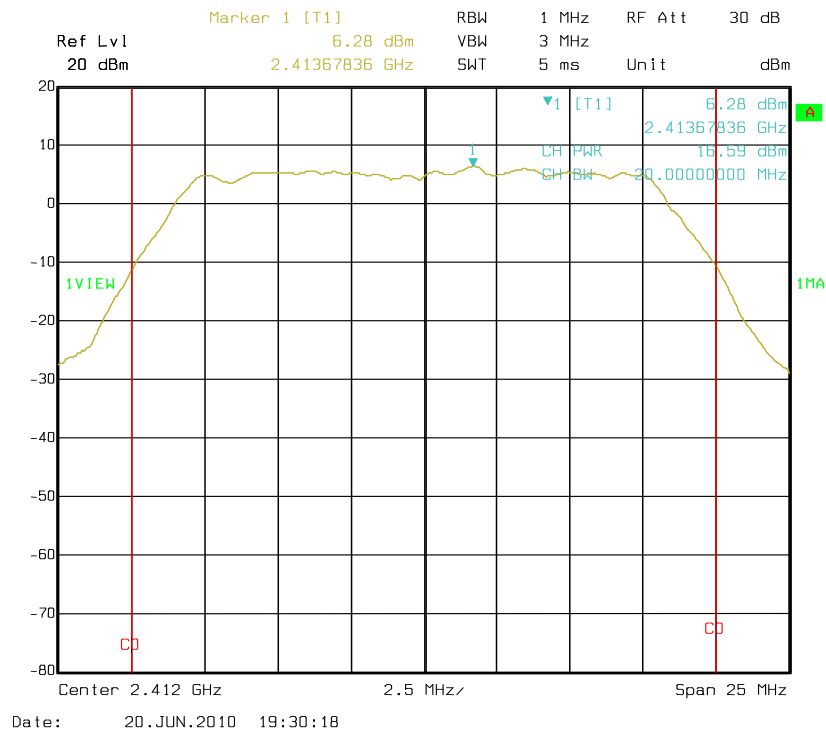
802.11b 5.5Mbps, Middle Channel

802.11b 5.5Mbps, High Channel


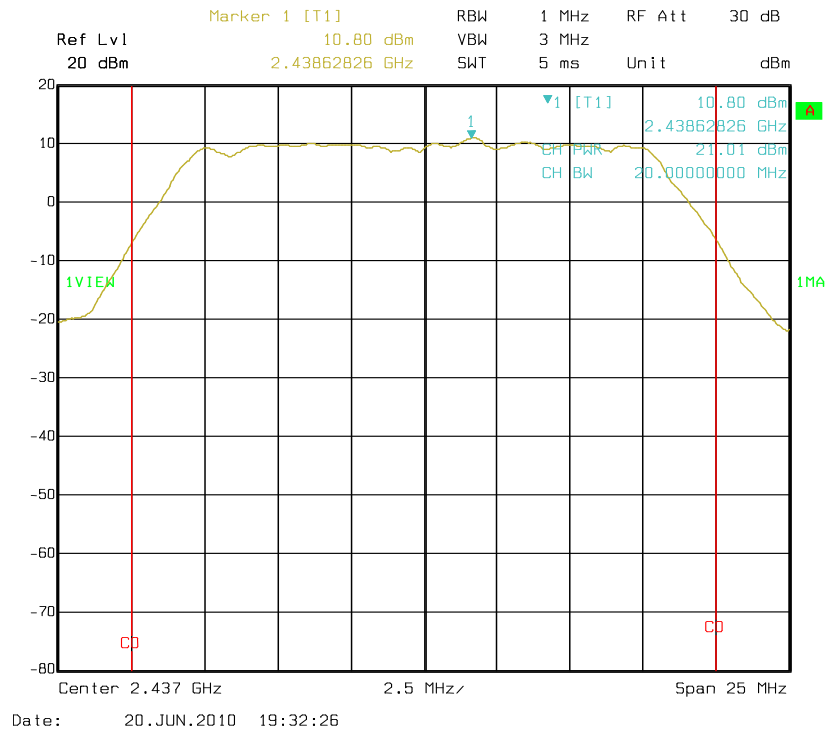
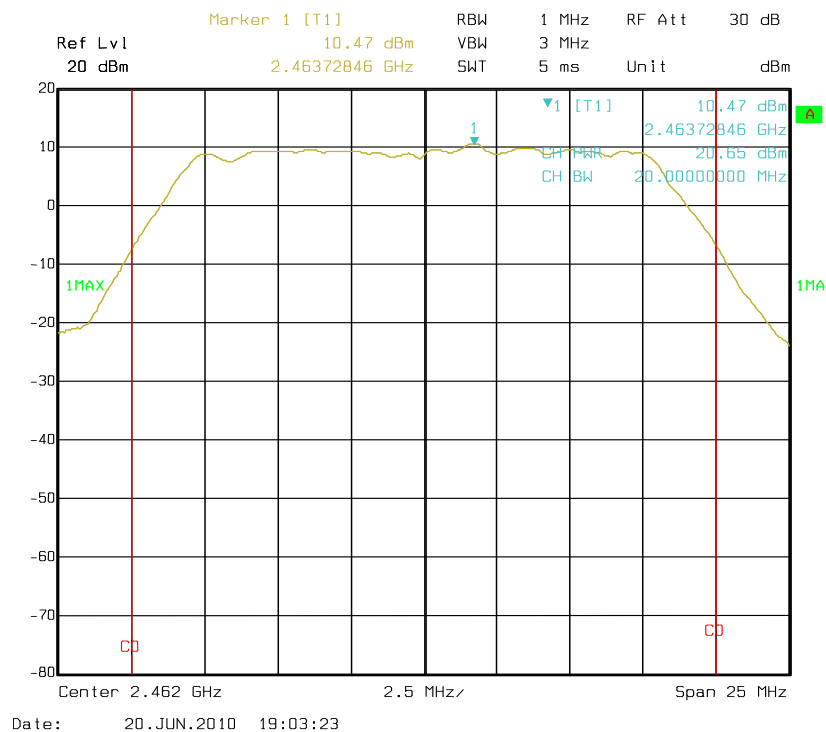
802.11b 11Mbps, Low Channel

802.11b 11Mbps, Middle Channel


802.11b 11Mbps, High Channel

802.11g 6Mbps, Low Channel


802.11g 6Mbps, Middle Channel

802.11g 6Mbps, High Channel


802.11g 24Mbps, Low Channel

802.11g 24Mbps, Middle Channel


802.11g 24Mbps, High Channel

802.11g 54Mbps, Low Channel


802.11g 54Mbps, Middle Channel

802.11g 54Mbps, High Channel


5.1.3 6dB Bandwidth

RESULT:
Passed

Date of testing : 2010-06-20
 Test standard : FCC Part 15.247(a)(1)
 Basic standard : ANSI C63.4: 2003
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 13: Test result of 6dB Bandwidth, 802.11b 1Mbps

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit
Low Channel	2412	10.10	500kHz
Mid Channel	2437	9.82	500kHz
High Channel	2462	10.02	500kHz

Table 14: Test result of 6dB Bandwidth, 802.11b 5.5Mbps

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit
Low Channel	2412	11.02	500kHz
Mid Channel	2437	10.50	500kHz
High Channel	2462	10.50	500kHz

Table 15: Test result of 6dB Bandwidth, 802.11b 11Mbps

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit
Low Channel	2412	11.14	500kHz
Mid Channel	2437	9.65	500kHz
High Channel	2462	10.10	500kHz

Table 16: Test result of 6dB Bandwidth, 802.11g 6Mbps

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit
Low Channel	2412	16.59	500kHz
Mid Channel	2437	16.59	500kHz
High Channel	2462	16.63	500kHz

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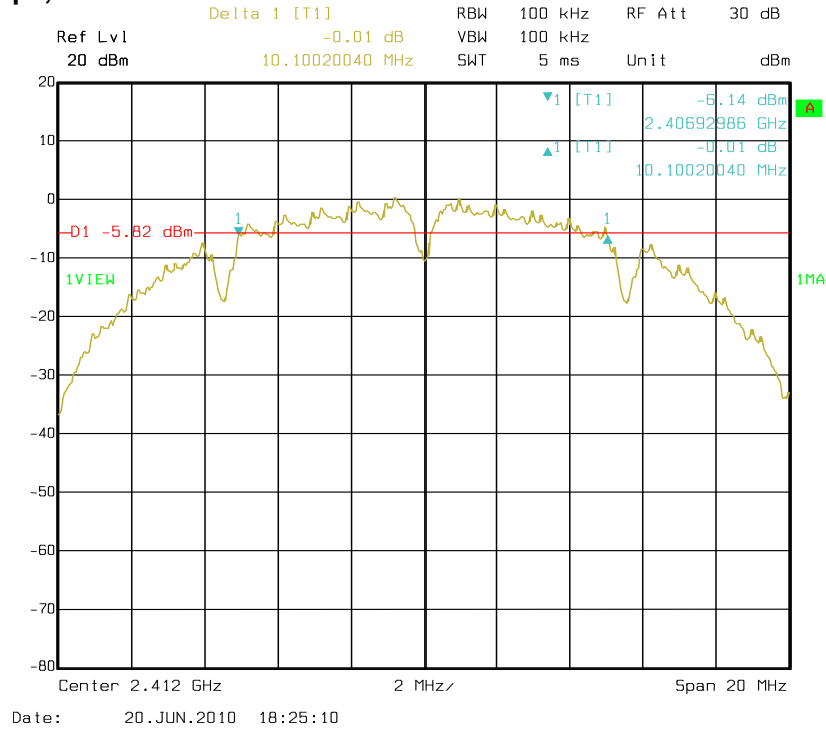
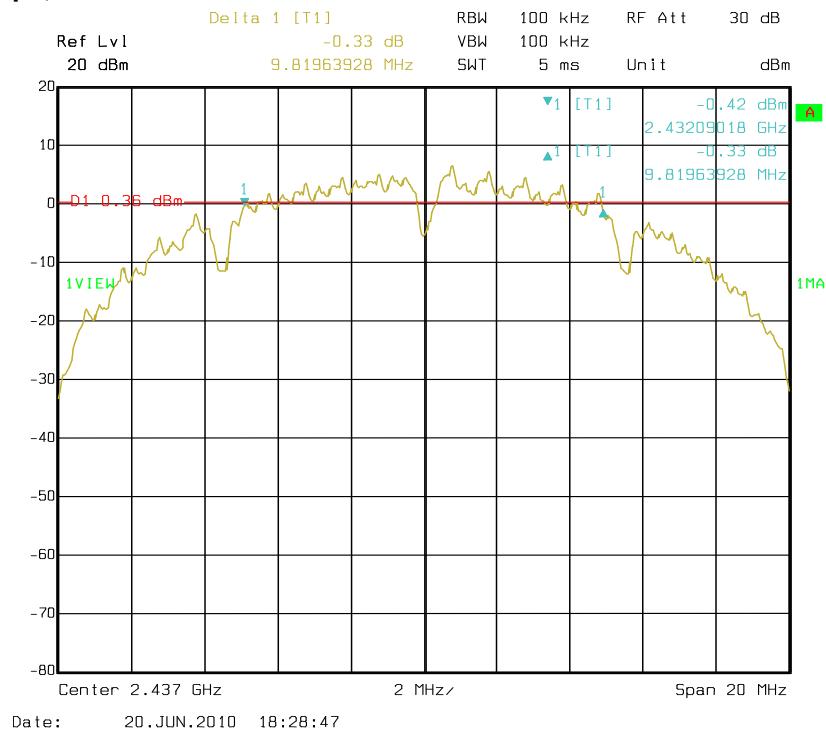
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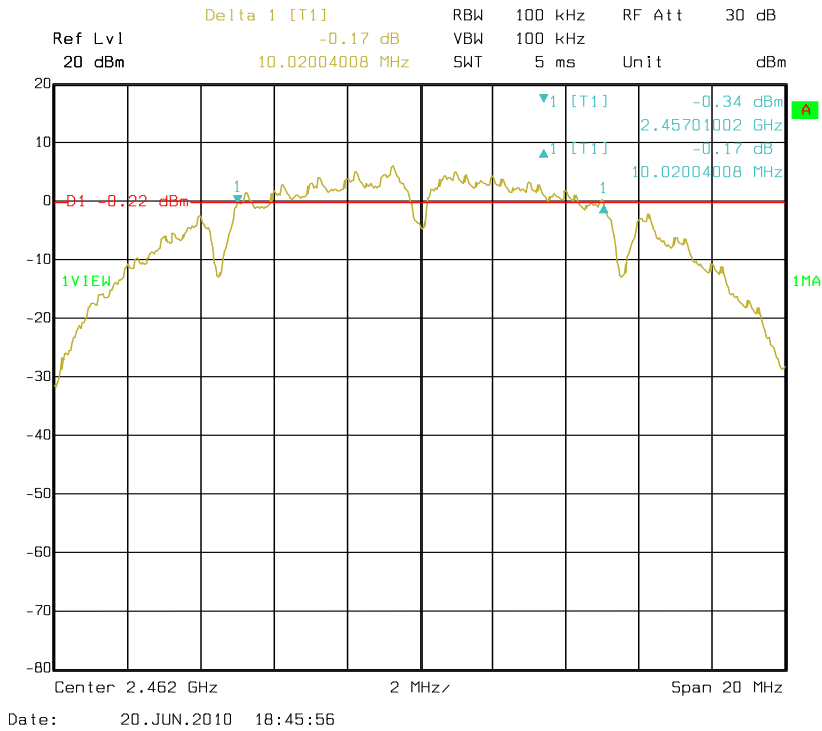
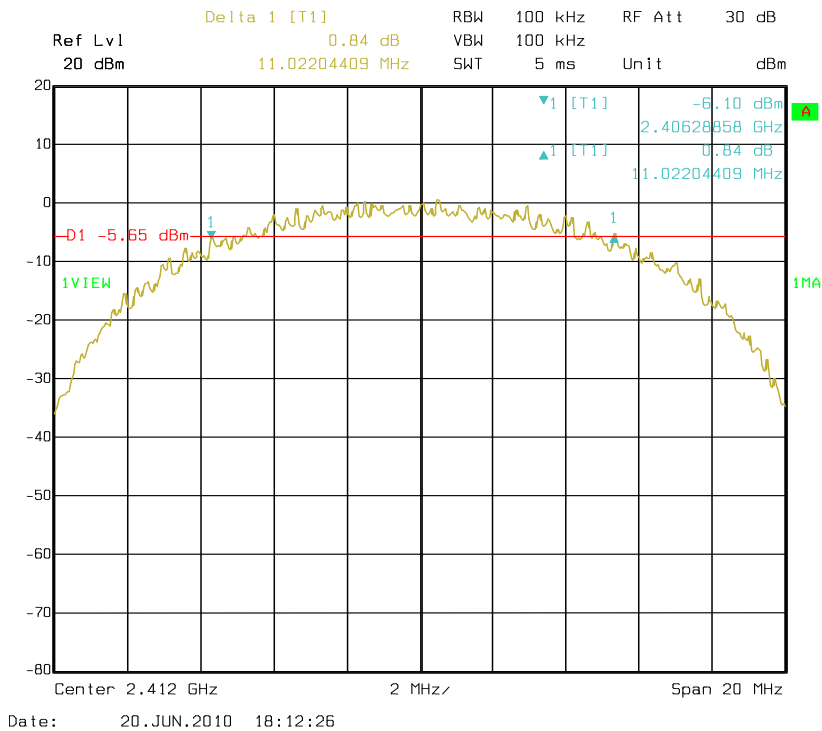
Table 17: Test result of 6dB Bandwidth, 802.11g 24Mbps

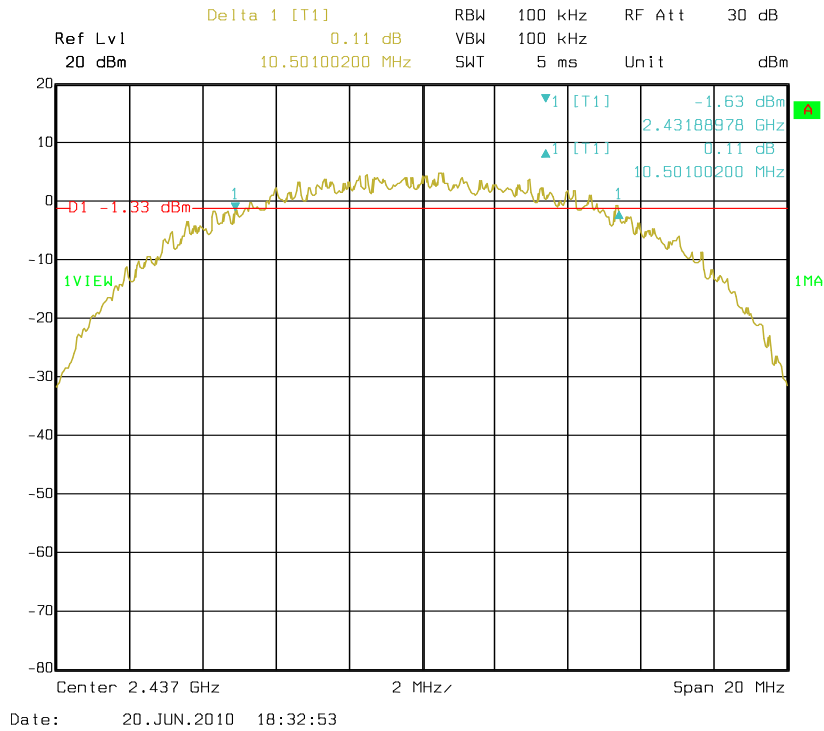
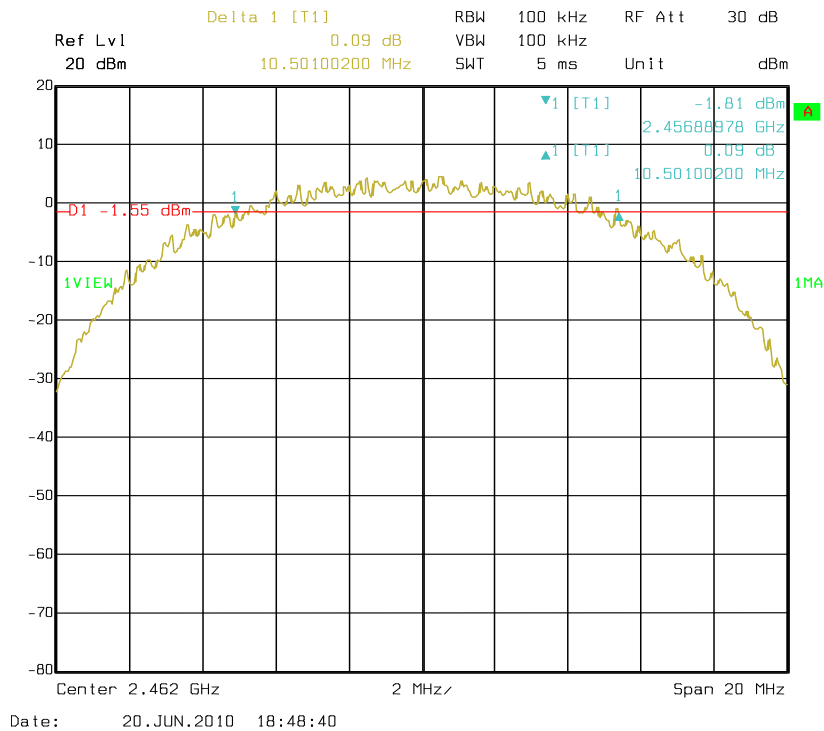
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit
Low Channel	2412	16.59	500kHz
Mid Channel	2437	16.59	500kHz
High Channel	2462	16.50	500kHz

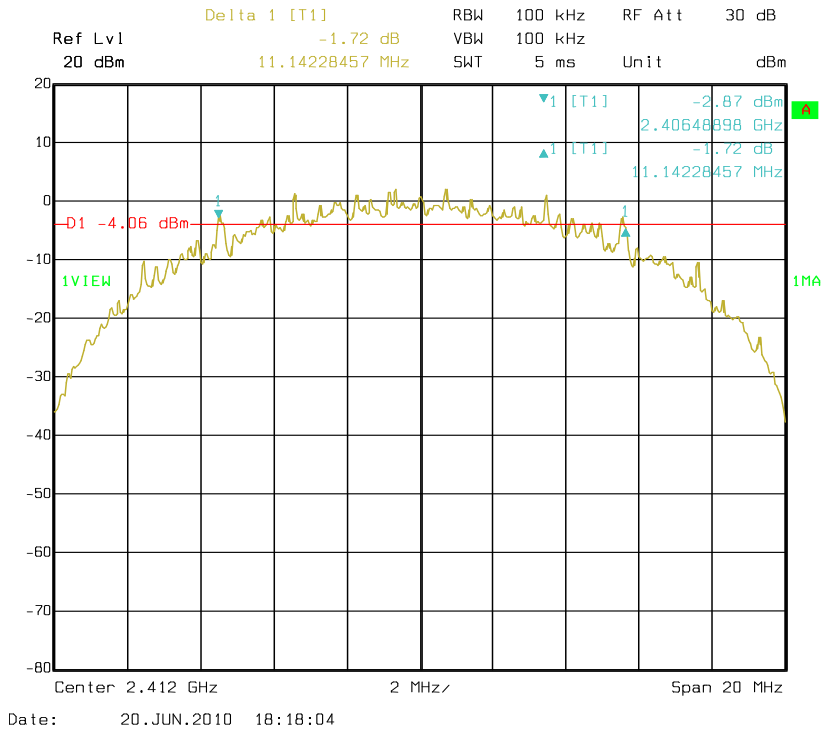
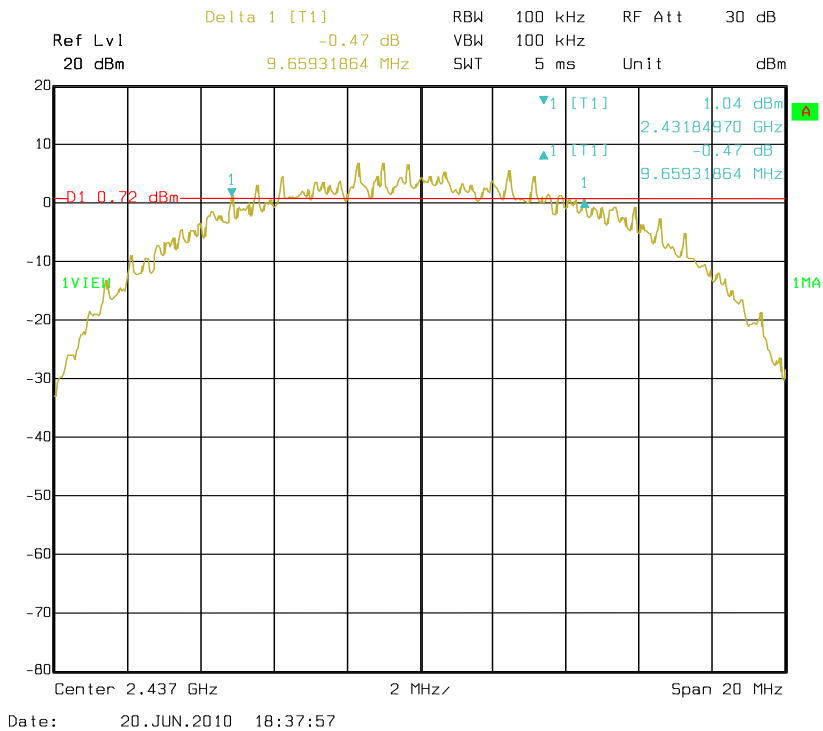
Table 18: Test result of 6dB Bandwidth, 802.11g 54Mbps

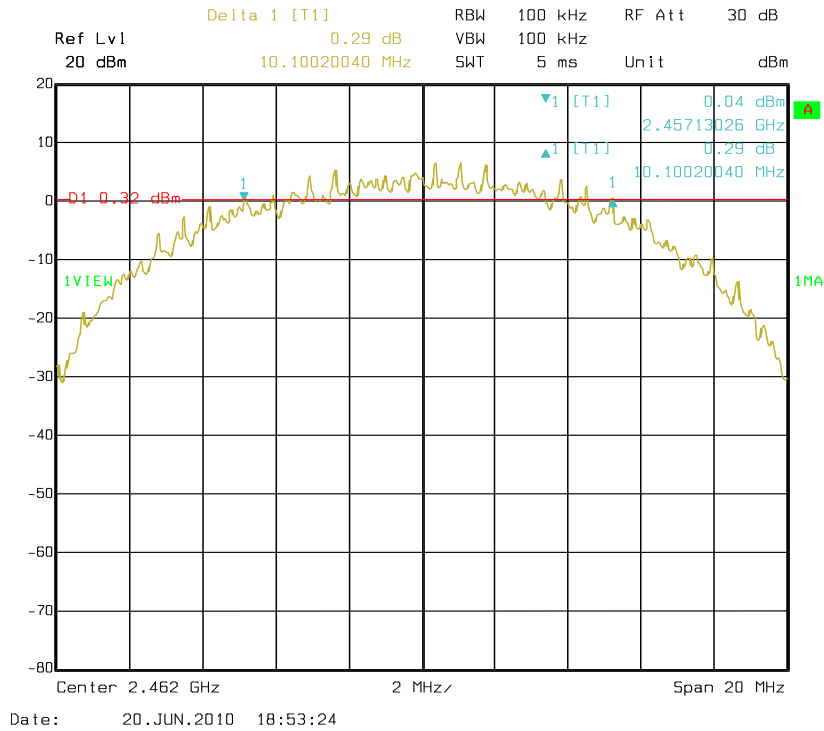
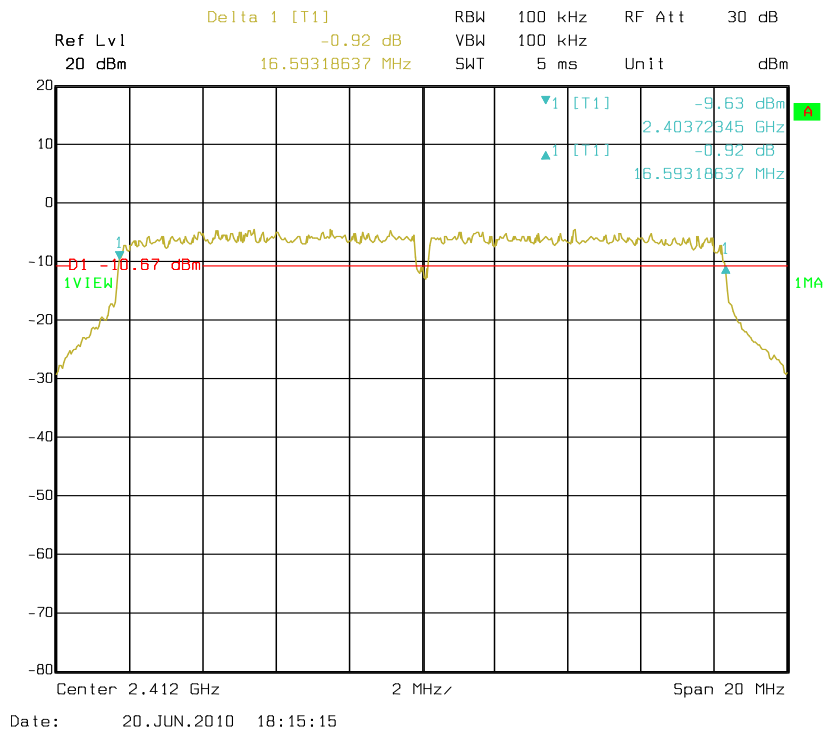
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit
Low Channel	2412	16.59	500kHz
Mid Channel	2437	16.59	500kHz
High Channel	2462	16.59	500kHz

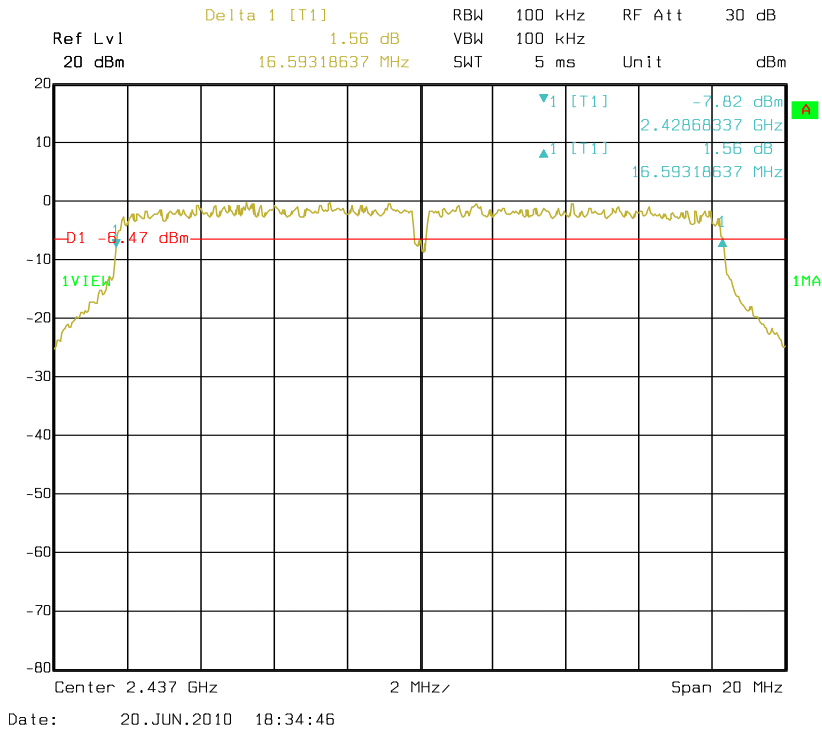
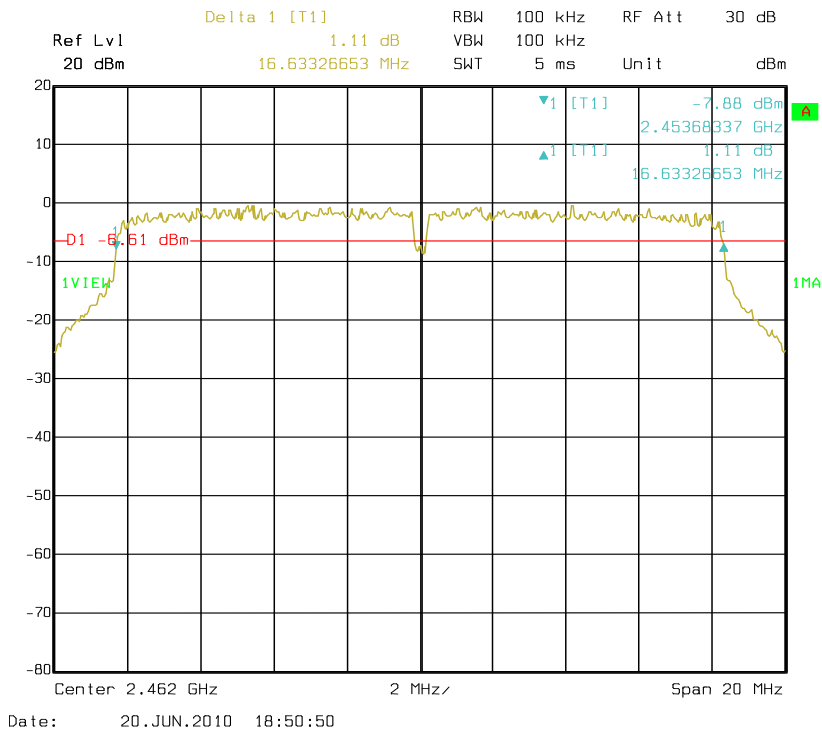
Test Plot of 6dB Bandwidth
802.11b 1Mbps, Low Channel

802.11b 1Mbps, Middle Channel


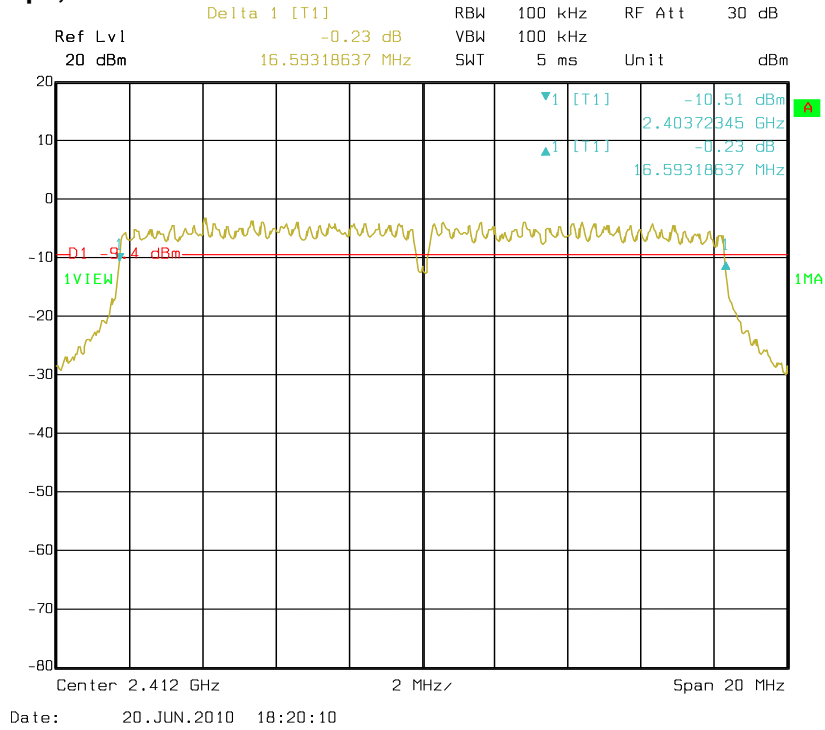
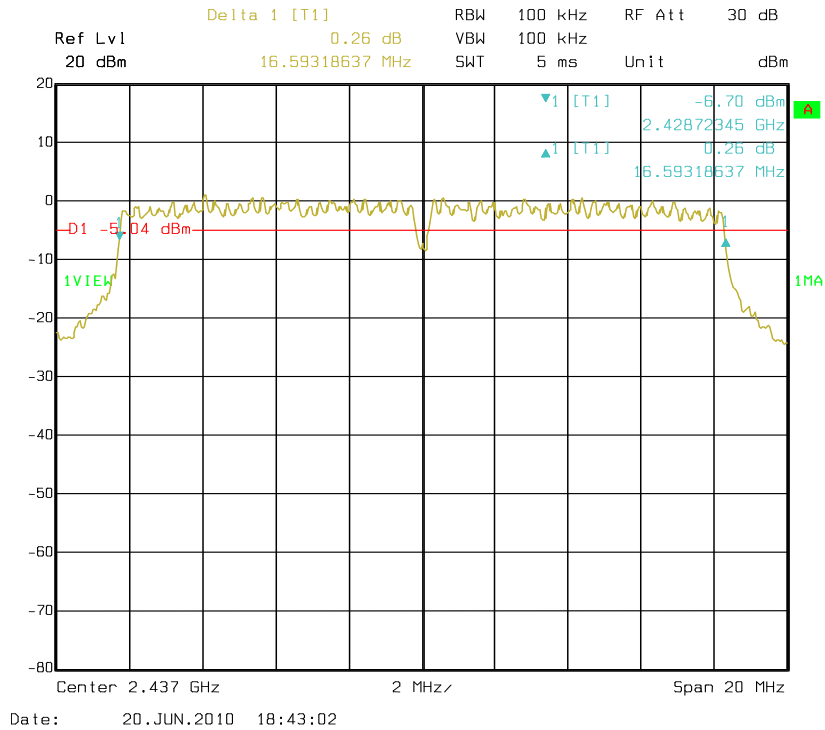
802.11b 1Mbps, High Channel

802.11b 5.5Mbps, Low Channel


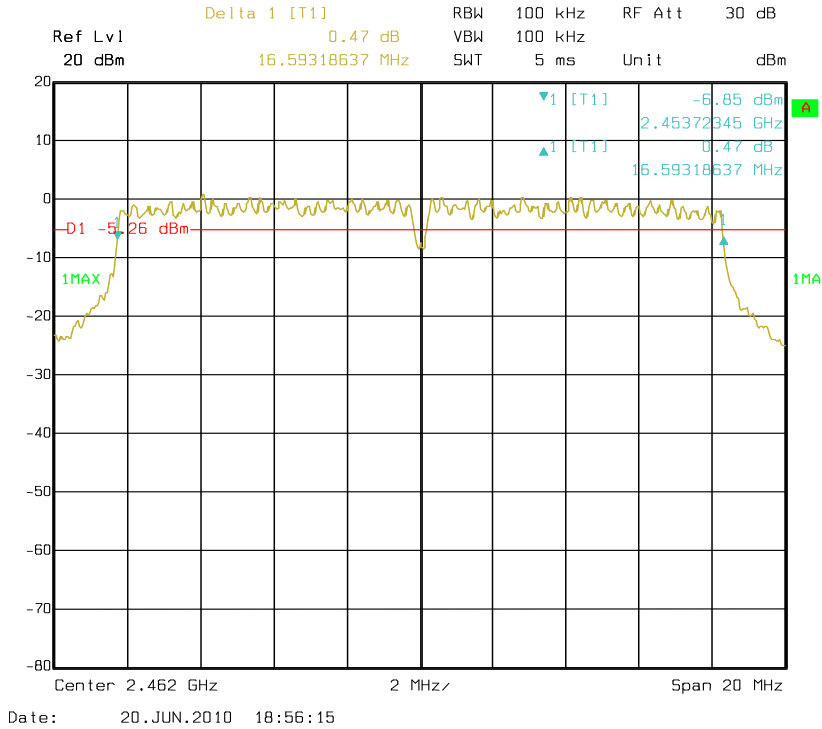
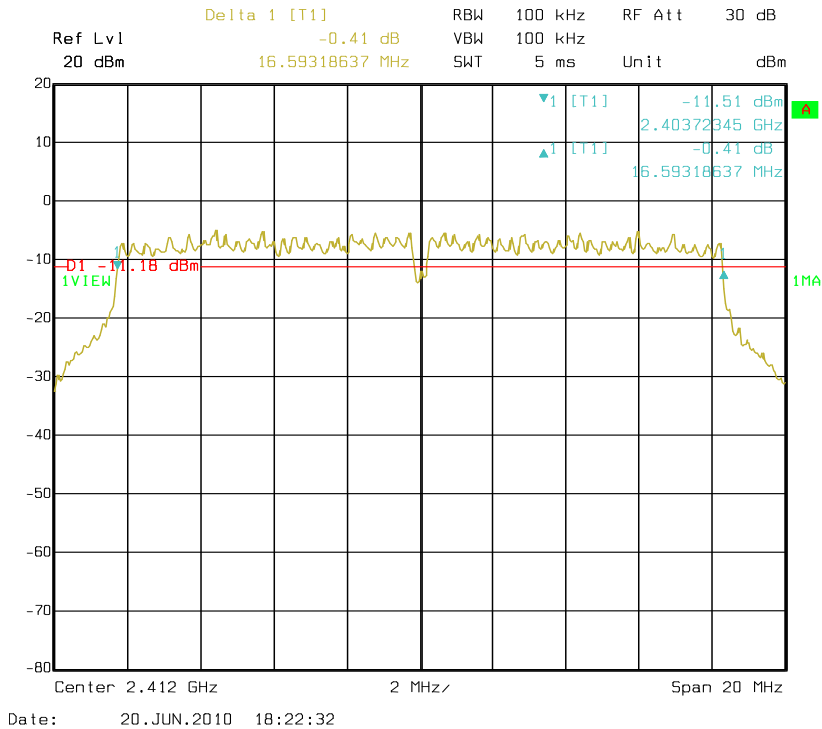
802.11b 5.5Mbps, Middle Channel

802.11b 5.5Mbps, High Channel


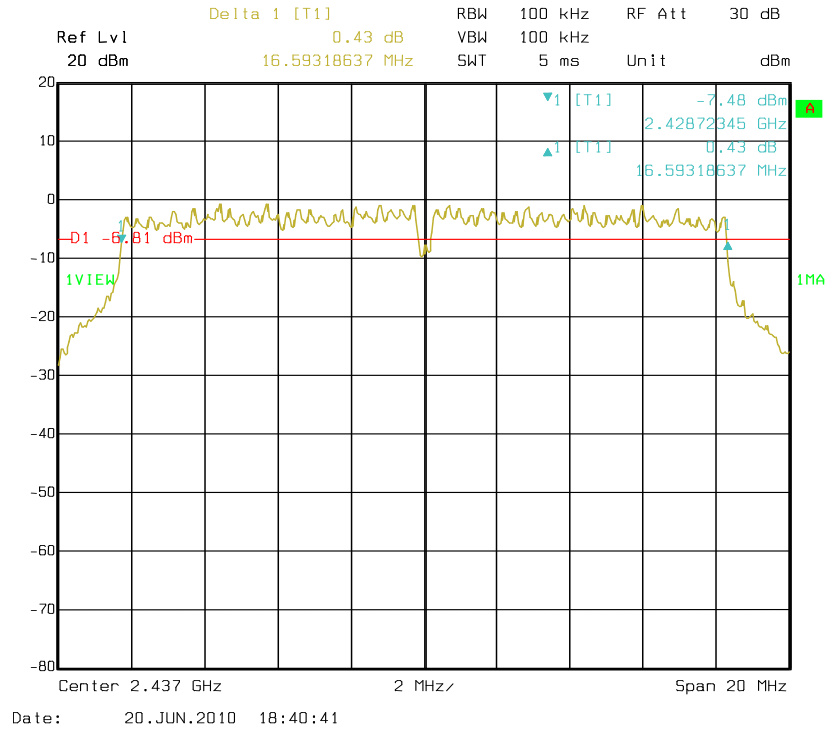
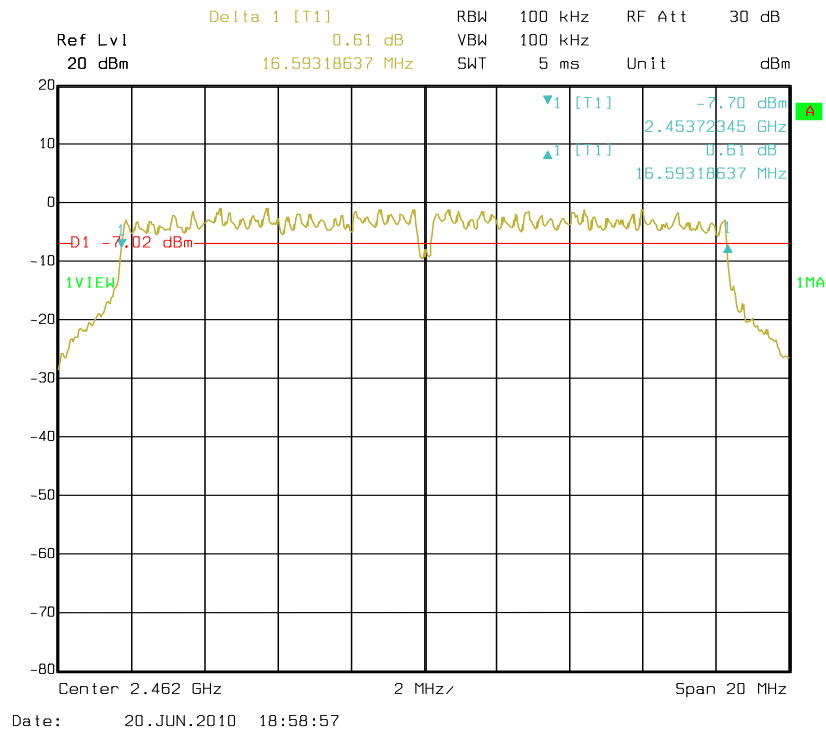
802.11b 11Mbps, Low Channel

802.11b 11Mbps, Middle Channel


802.11b 11Mbps, High Channel

802.11g 6Mbps, Low Channel


802.11g 6Mbps, Middle Channel

802.11g 6Mbps, High Channel


802.11g 24Mbps, Low Channel

802.11g 24Mbps, Middle Channel


802.11g 24Mbps, High Channel

802.11g 54Mbps, Low Channel


802.11g 54Mbps, Middle Channel

802.11g 54Mbps, High Channel


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5.1.4 100kHz Bandwidth of Frequency Band Edge**RESULT:****Passed**

Date of testing : 2010-06-20
Test standard : FCC part 15.247(d)
Basic standard : ANSI C63.4: 2003
Limit : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site : Shield room

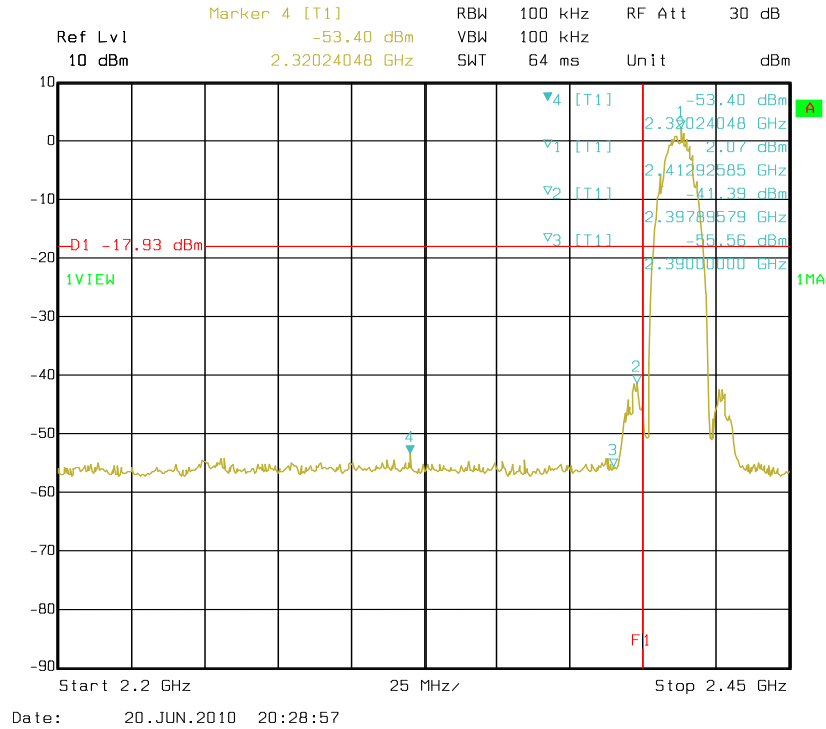
Test setup

Test Channel : Low/ High
Operation mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

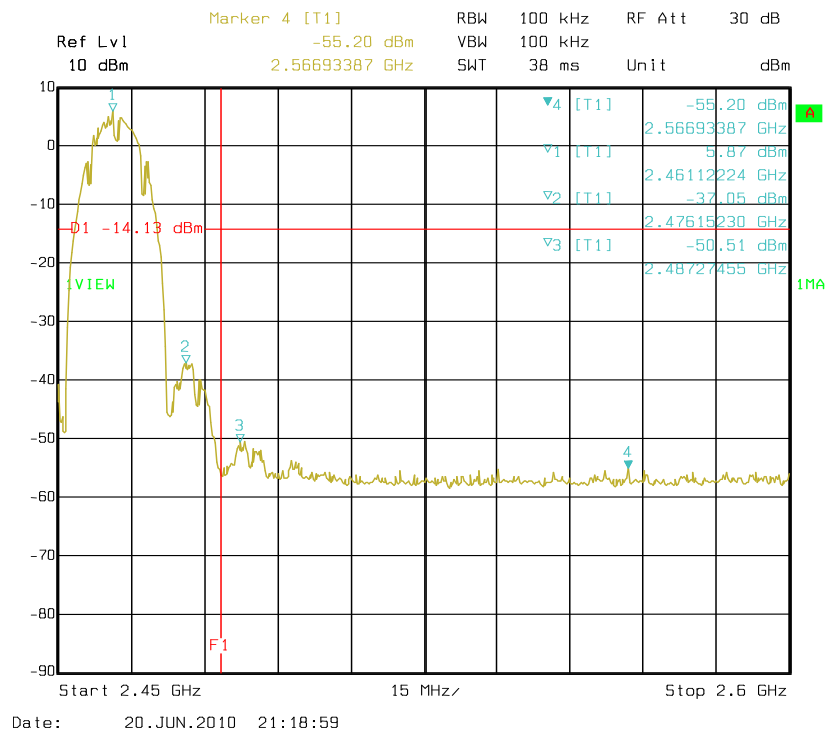
All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

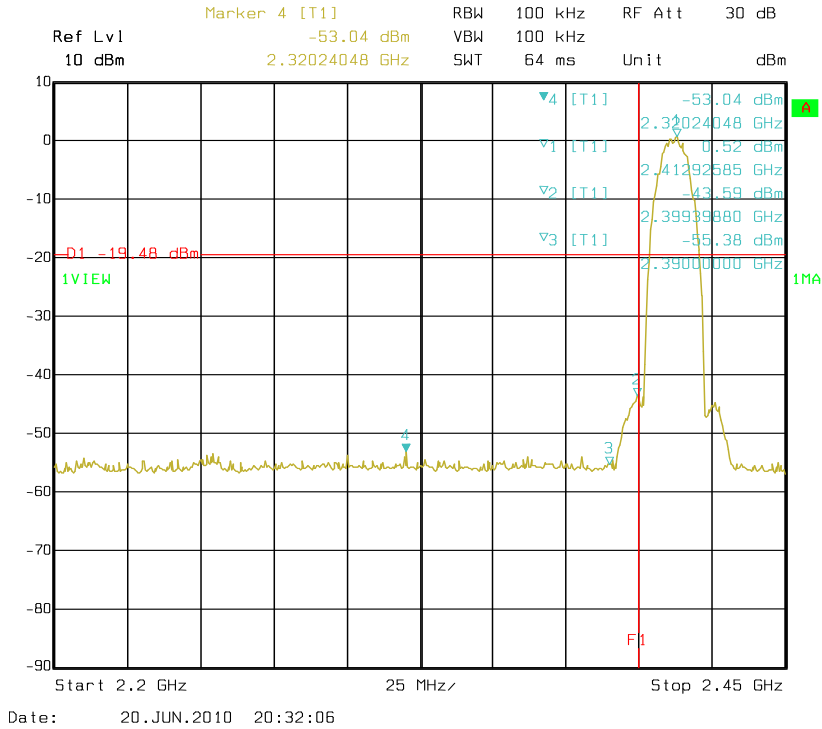
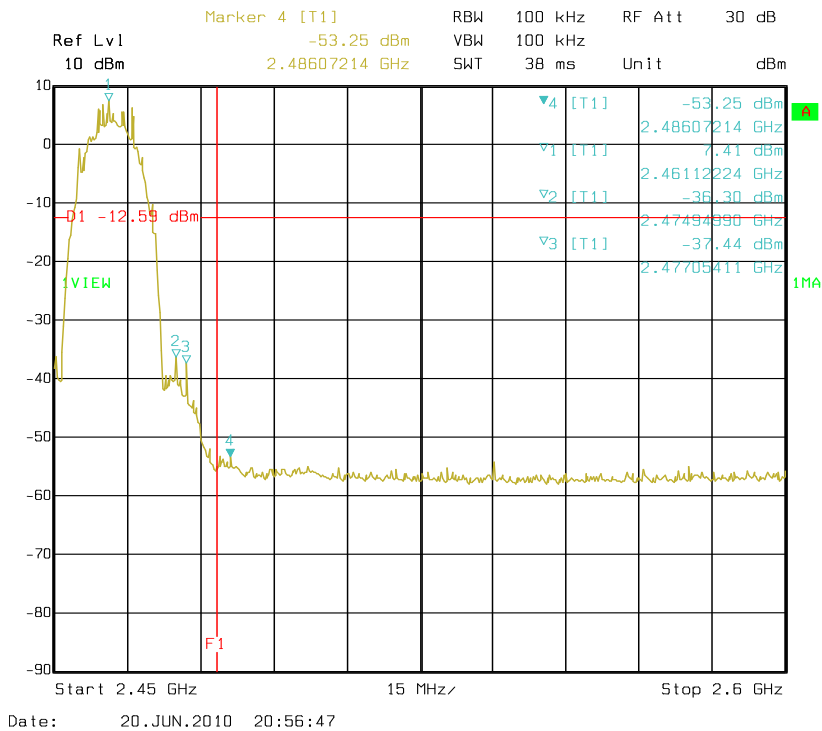
Test Plot of 100kHz Bandwidth of Frequency Band Edge

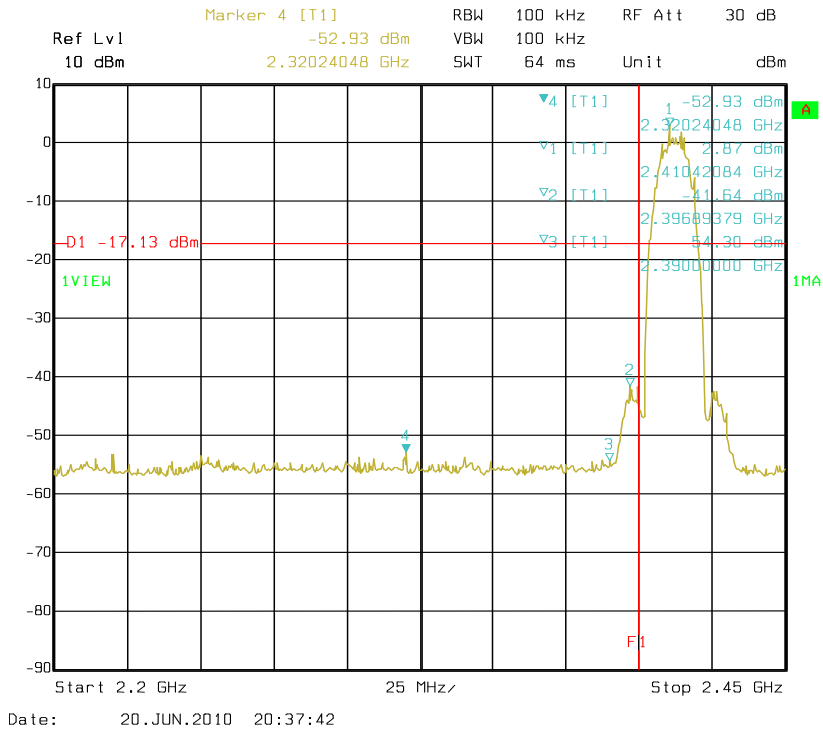
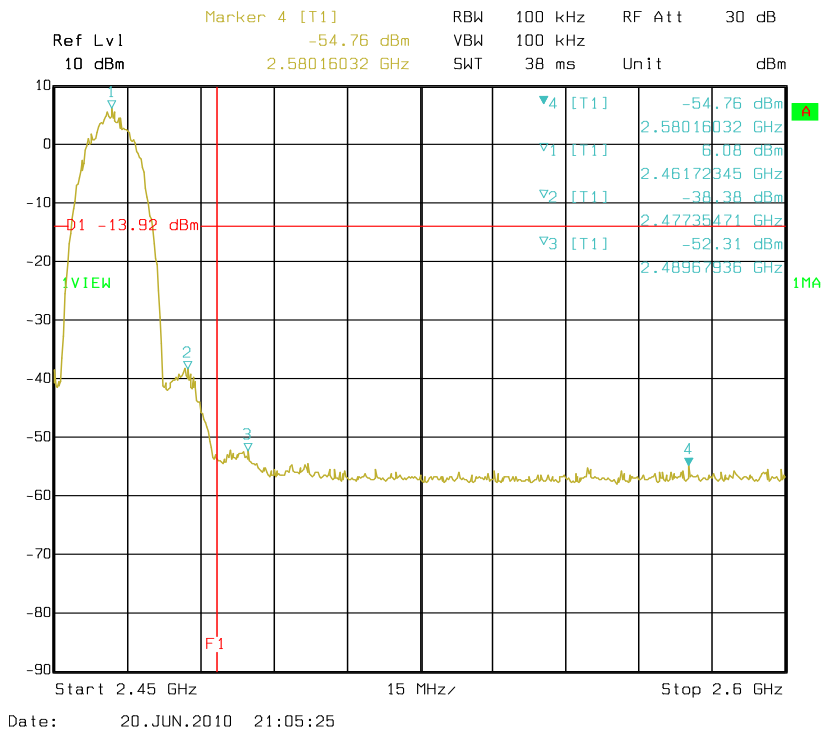
802.11b 1Mbps, Low Channel

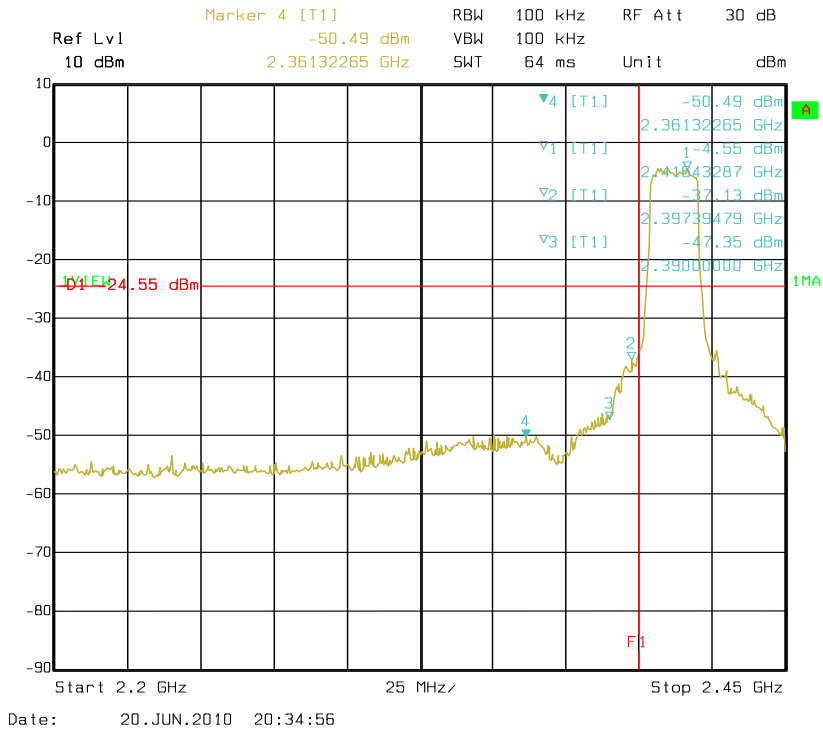
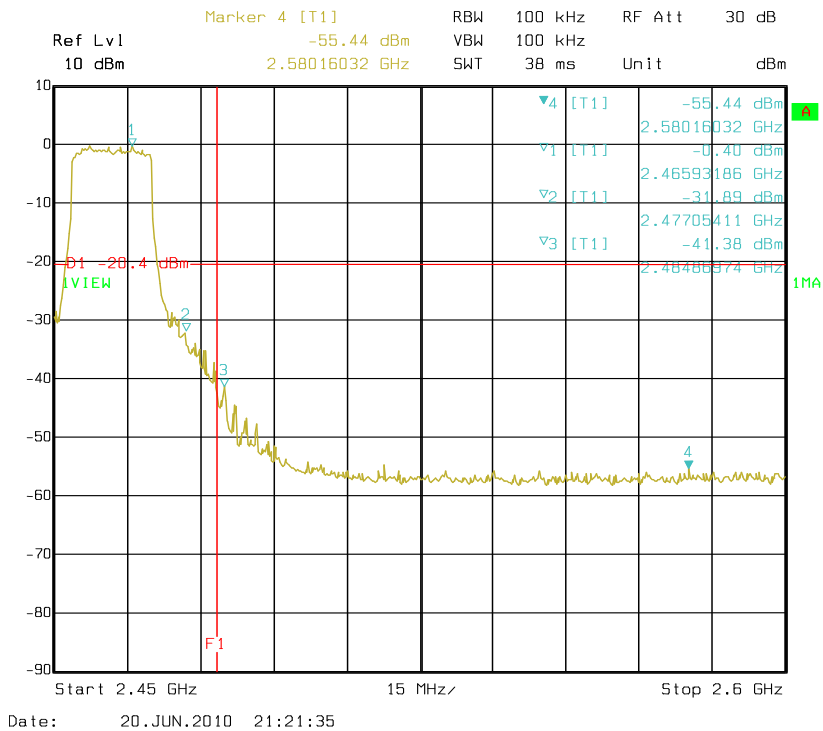


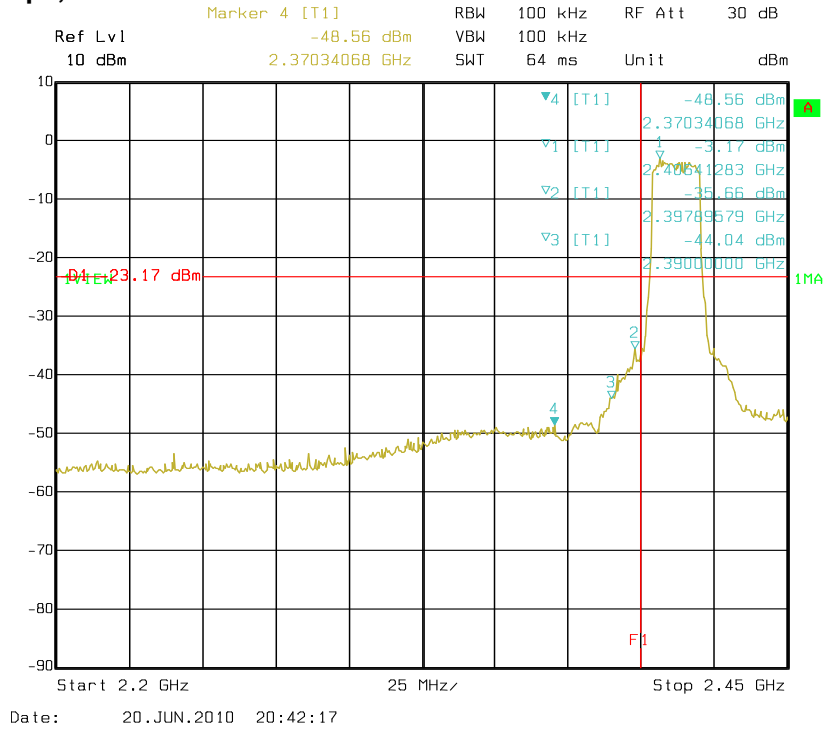
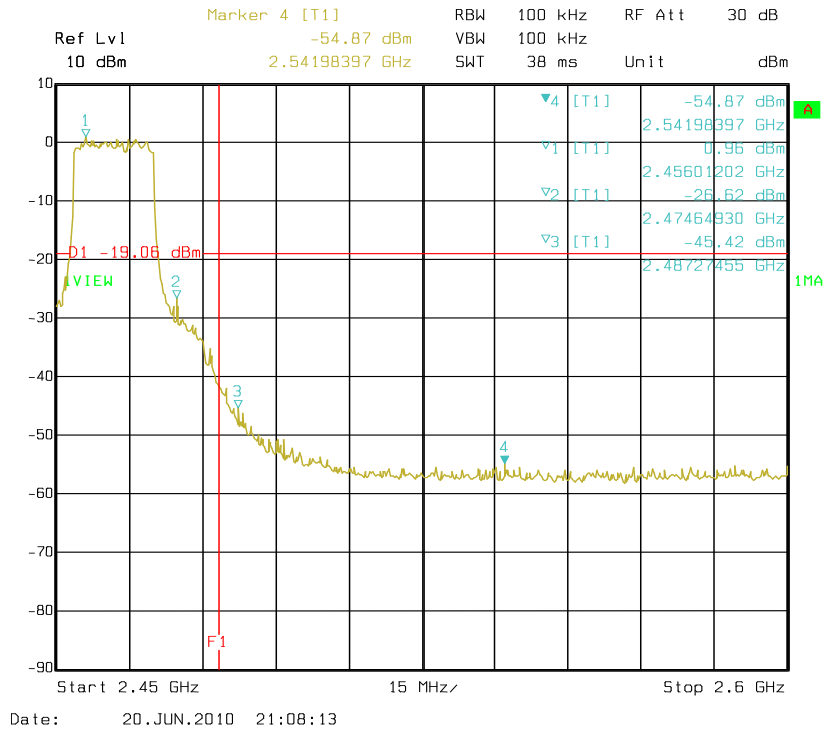
802.11b 1Mbps, High Channel

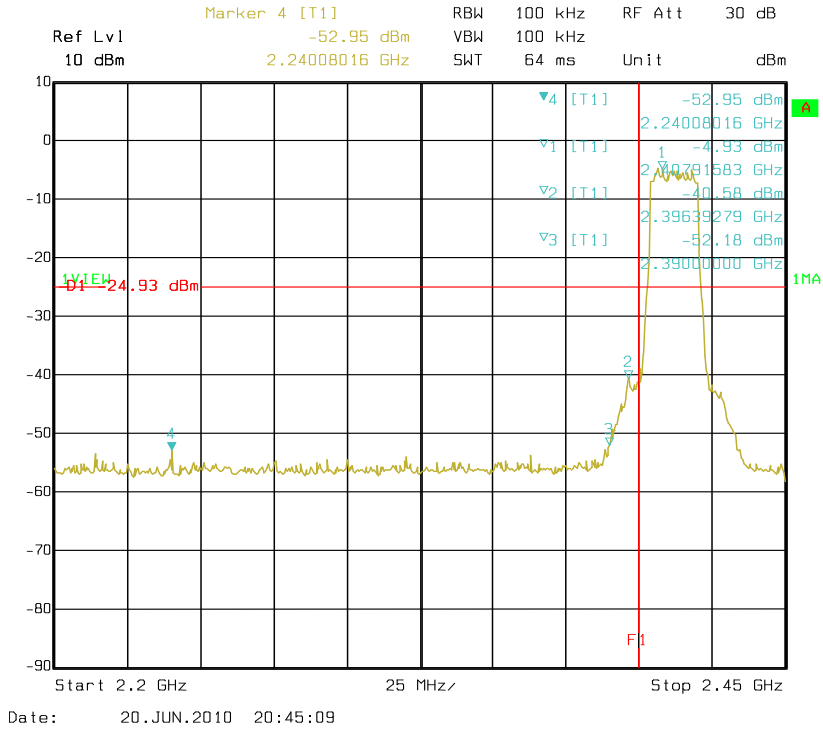
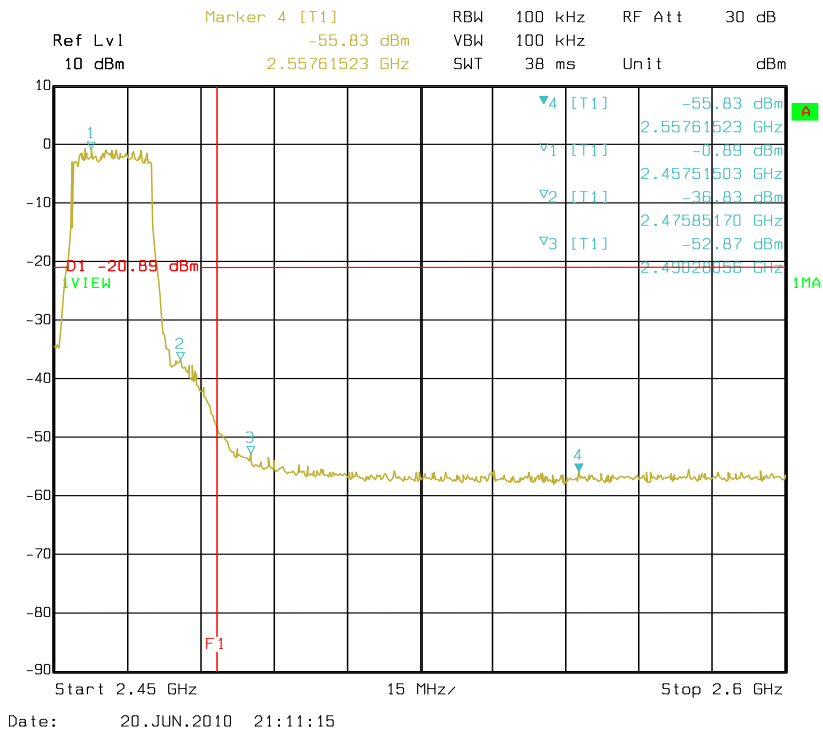


802.11b 5.5Mbps, Low Channel

802.11b 5.5Mbps, High Channel


802.11b 11Mbps, Low Channel

802.11b 11Mbps, High Channel


802.11g 6Mbps, Low Channel

802.11g 6Mbps, High Channel


802.11g 24Mbps, Low Channel

802.11g 24Mbps, High Channel


802.11g 54Mbps, Low Channel

802.11g 54Mbps, High Channel


5.1.5 Power Spectral Density

RESULT:
Passed

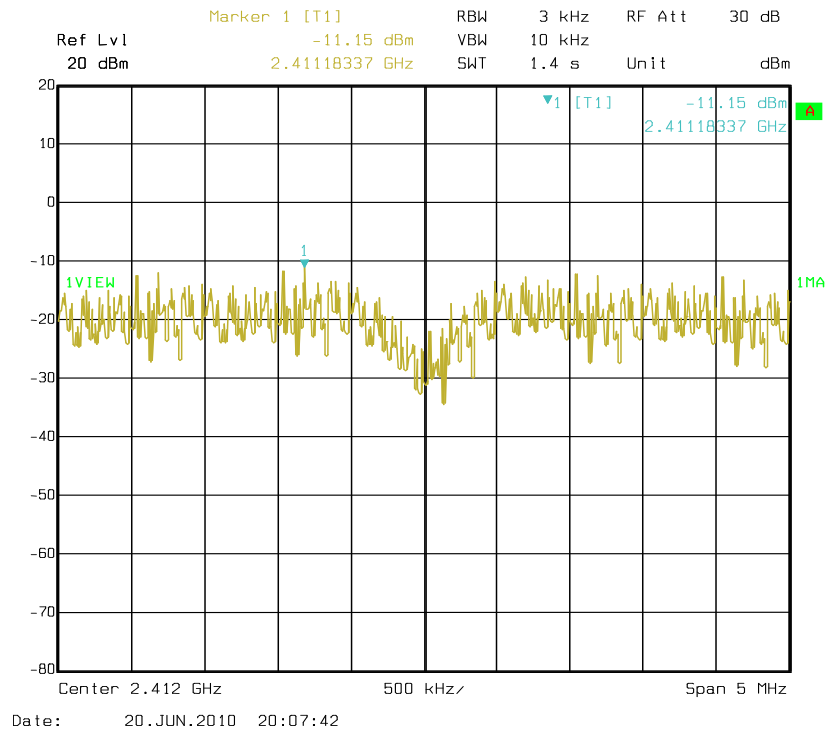
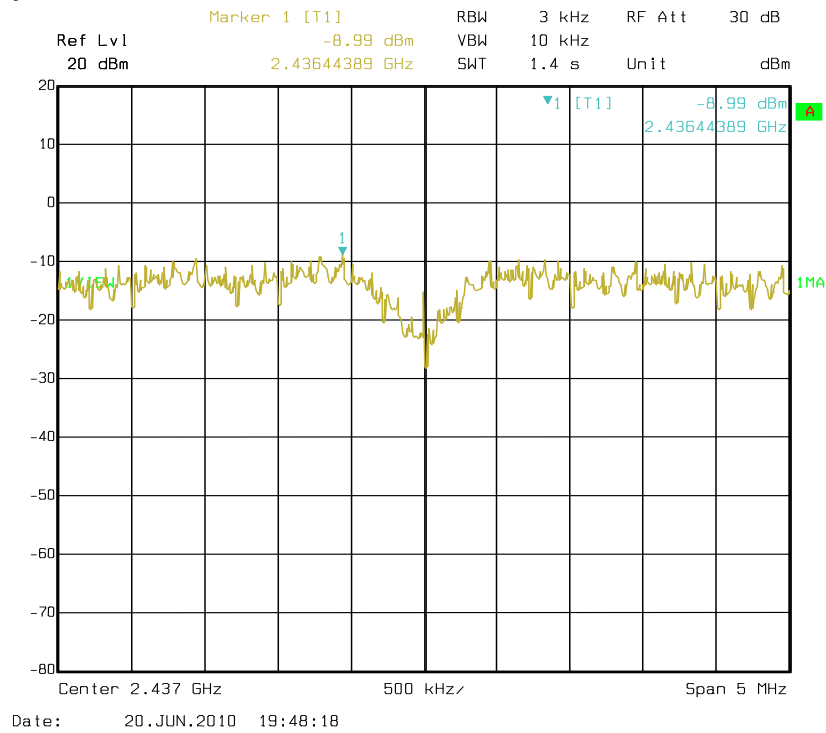
Date of testing : 2010-06-20
 Test standard : FCC part 15.247(e)
 Basic standard : ANSI C63.4: 2003
 Limits : 8.0 dBm (in any 3kHz band)
 Kind of test site : Shield room

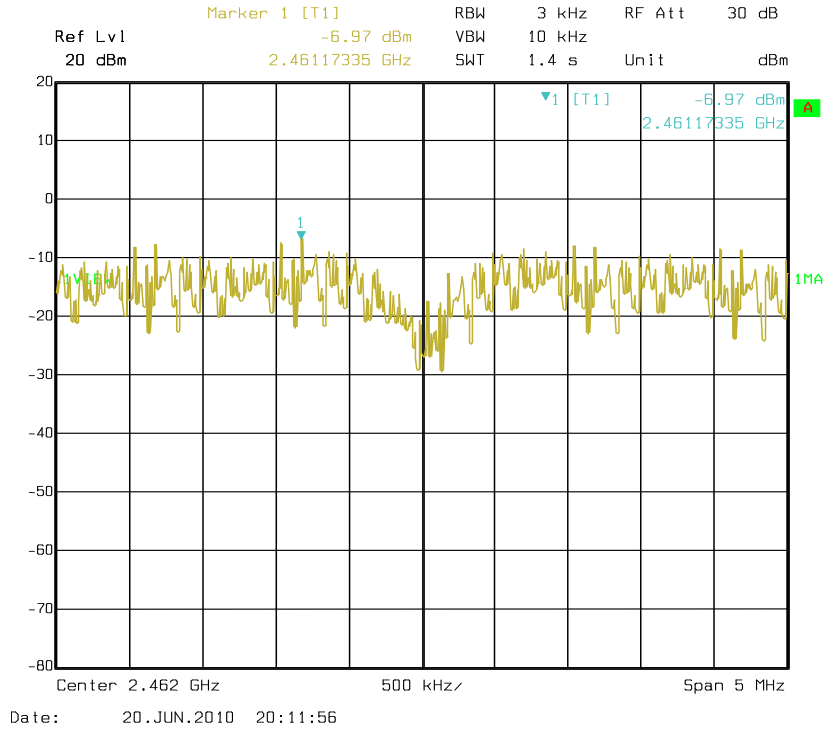
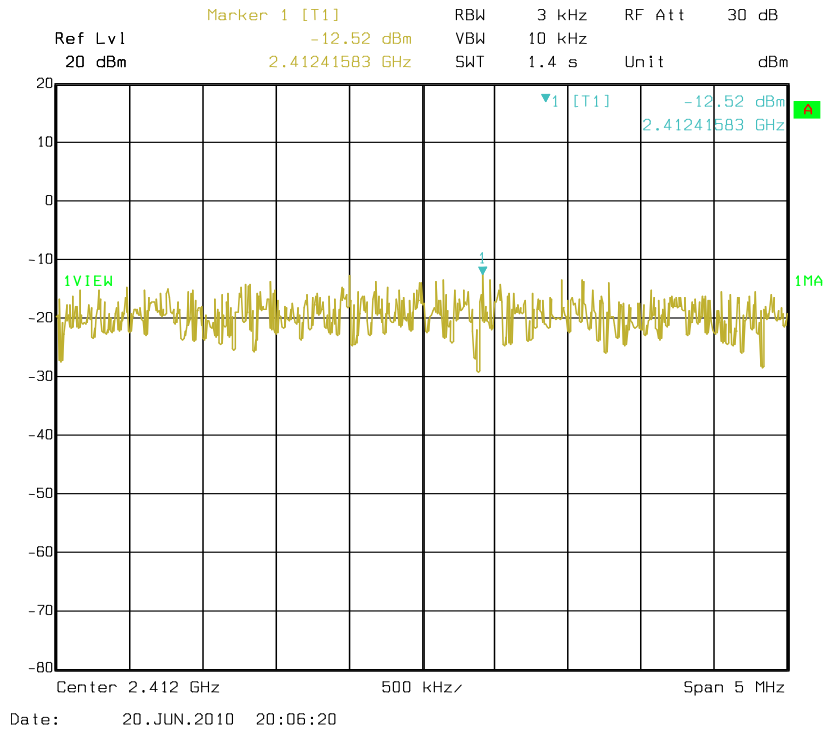
Test Setup

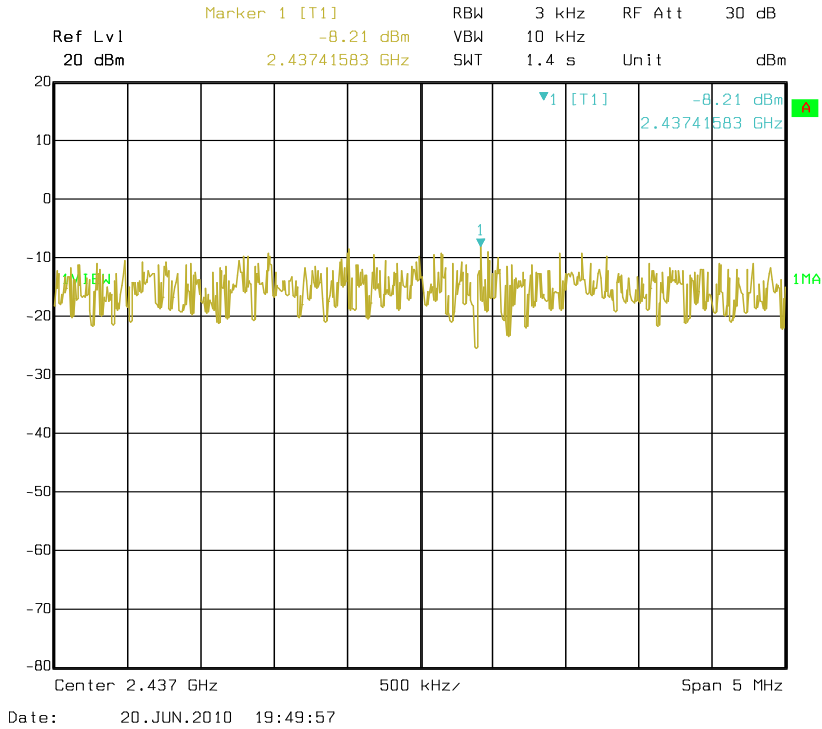
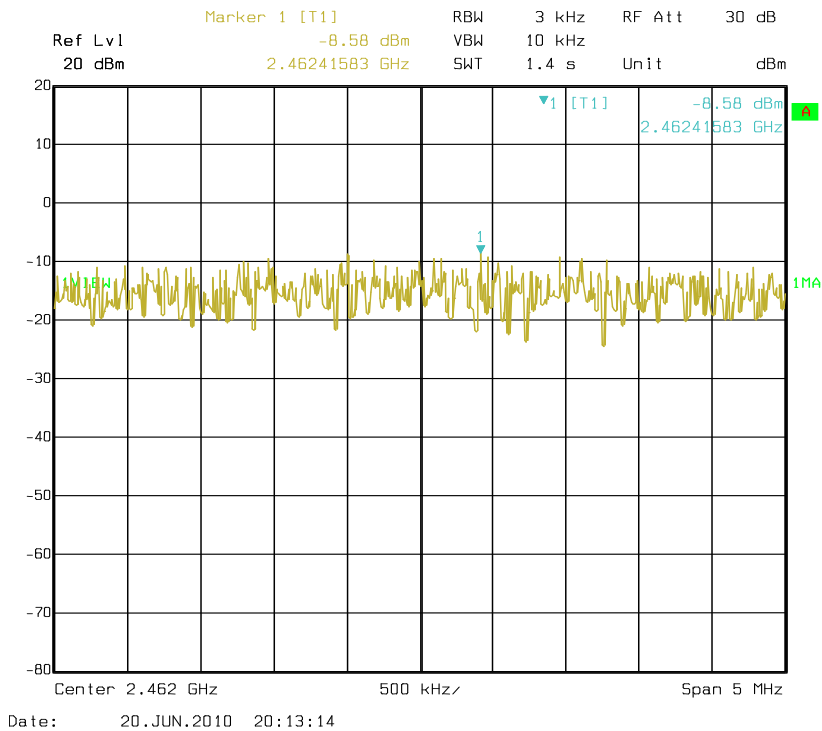
Test Channel : Low/ Middle/ High
 Operation mode : A.1.a
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

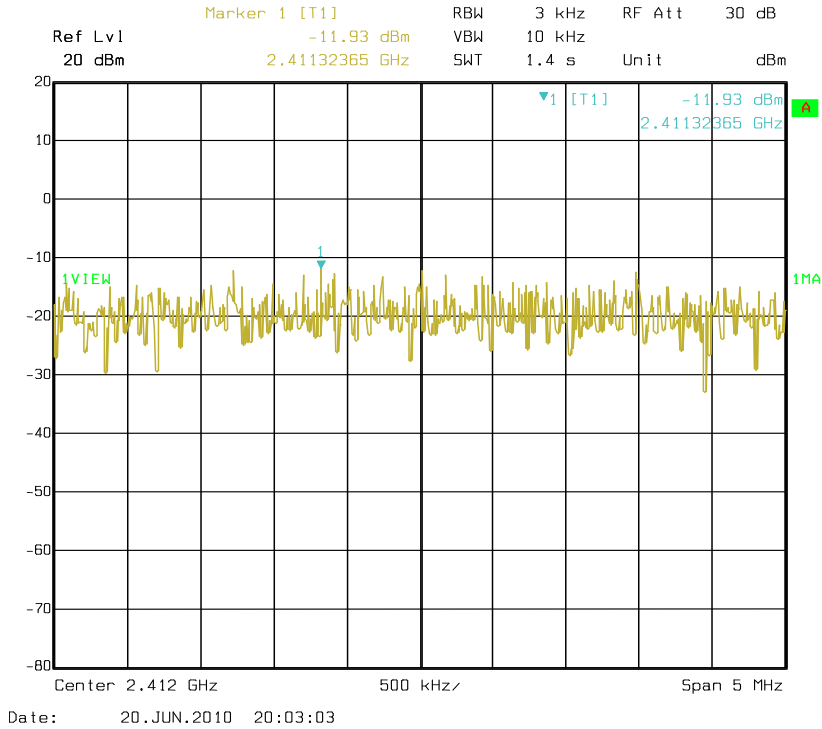
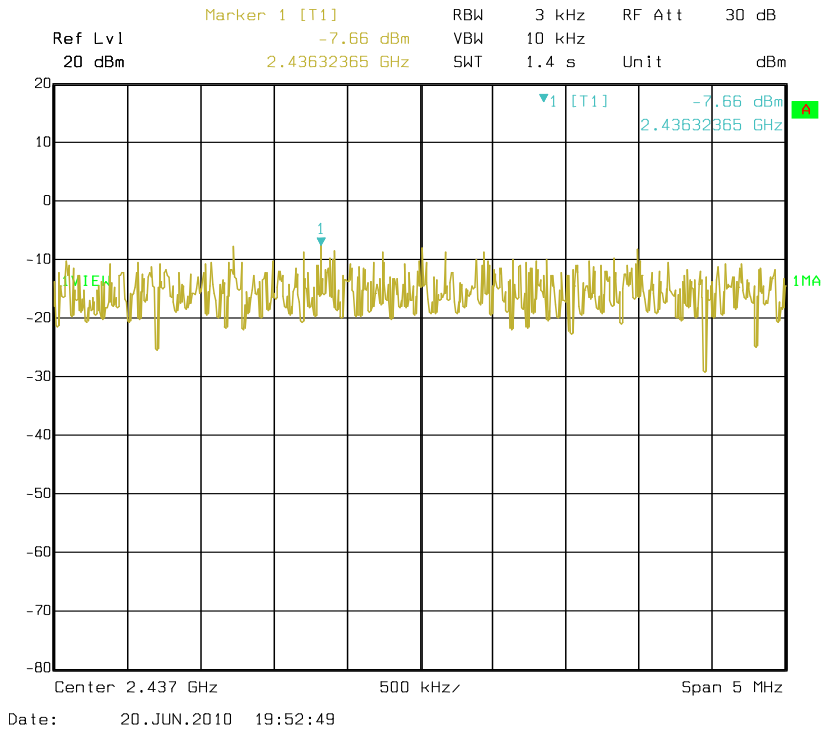
Table 19: Test result of power spectral density

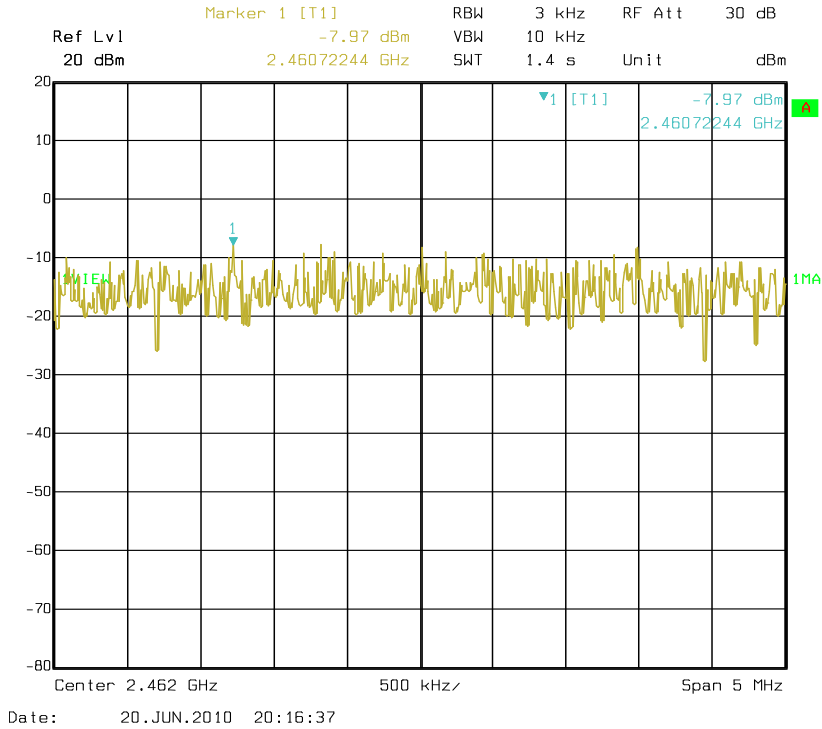
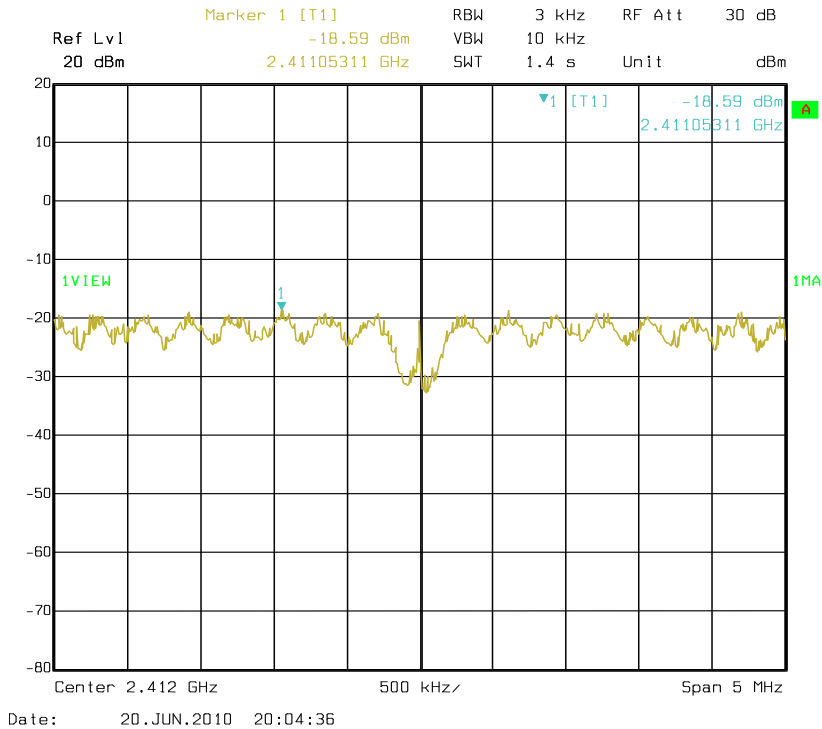
Maximum e.i.r.p. spectral density			
Low Channel (dBm/1MHz)	Middle Channel (dBm/1MHz)	High Channel (dBm/1MHz)	Limit (dBm/3kHz)
802.11b 1Mbps			
-11.15	-8.99	-6.97	8
802.11b 5.5Mbps			
-12.52	-8.21	-8.58	8
802.11g 11Mbps			
-18.59	-11.85	-7.97	8
802.11g 6Mbps			
-11.93	-14.31	-14.42	8
802.11g 24Mbps			
-15.90	-14.33	-12.03	8
802.11g 54Mbps			
-18.73	-6.97	-14.49	8

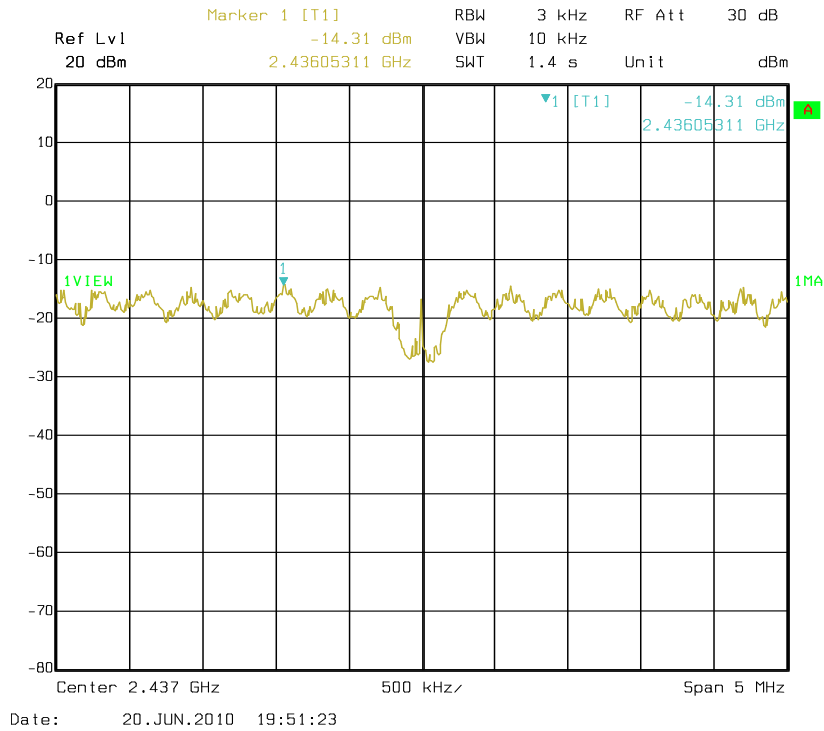
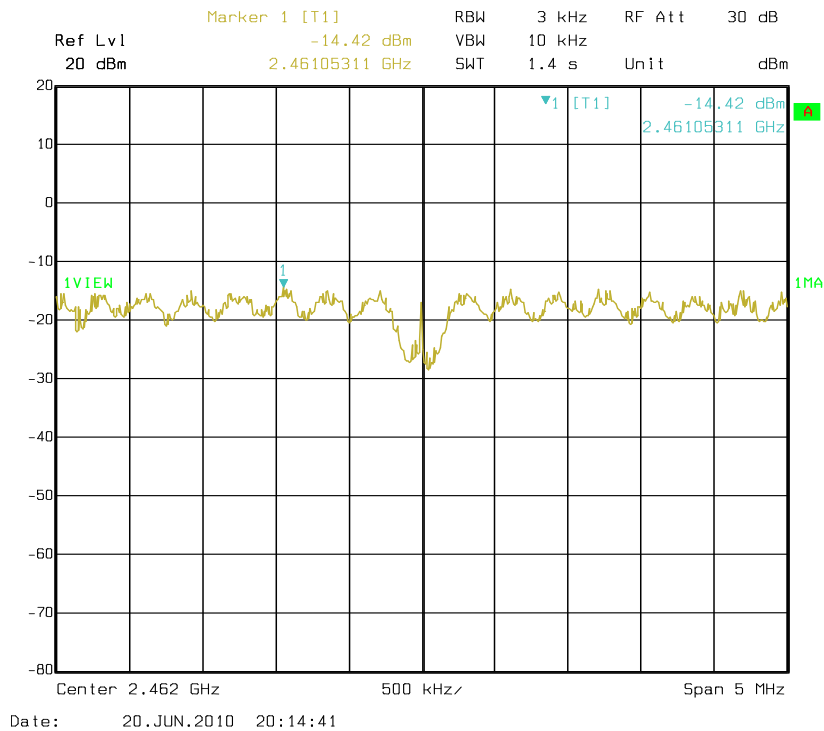
Test Plot of Power Spectral Density
802.11b 1Mbps, Low Channel

802.11b 1Mbps, Middle Channel


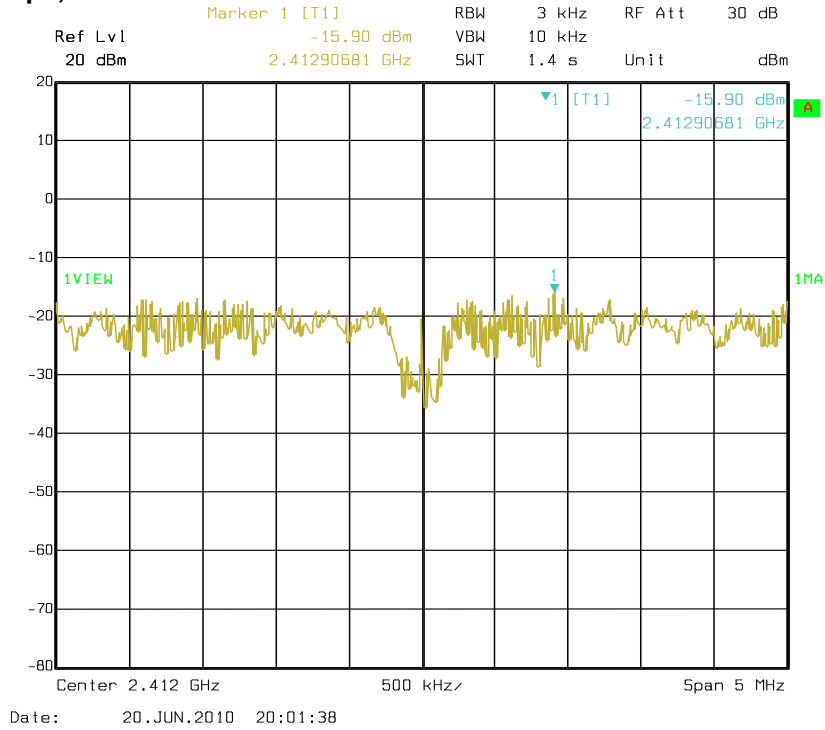
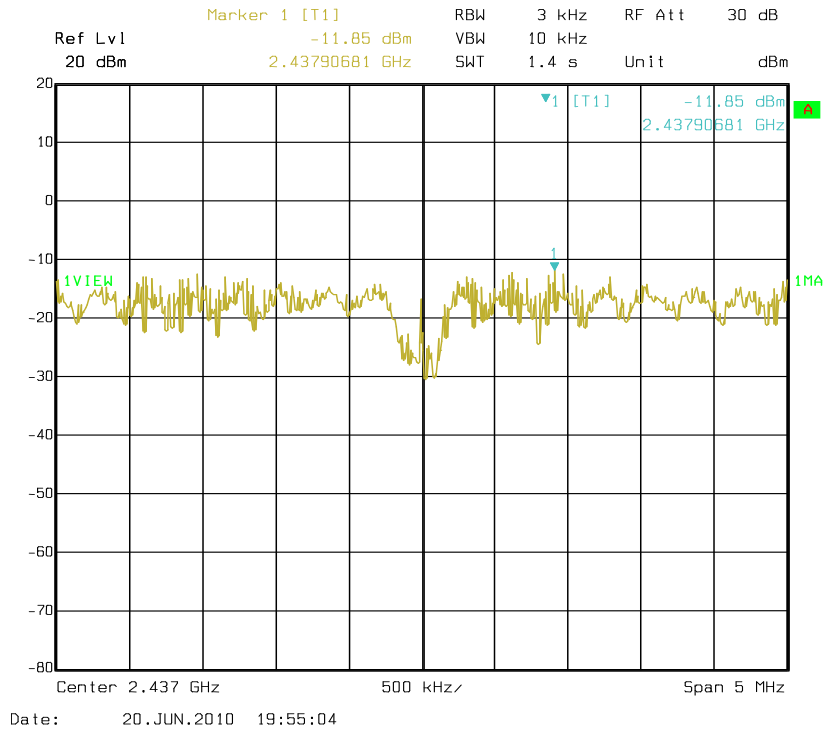
802.11b 1Mbps, High Channel

802.11b 5.5Mbps, Low Channel


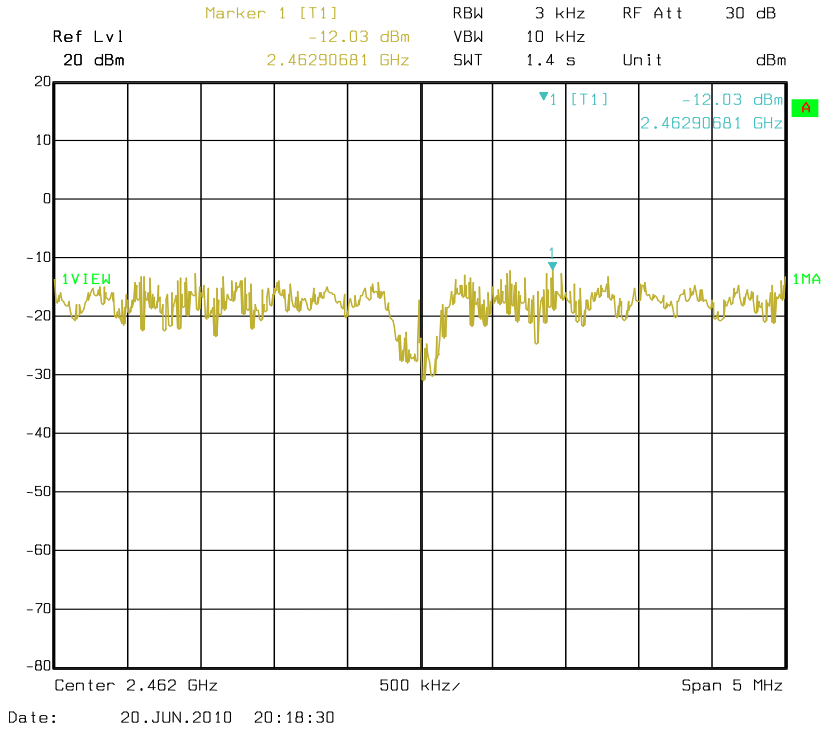
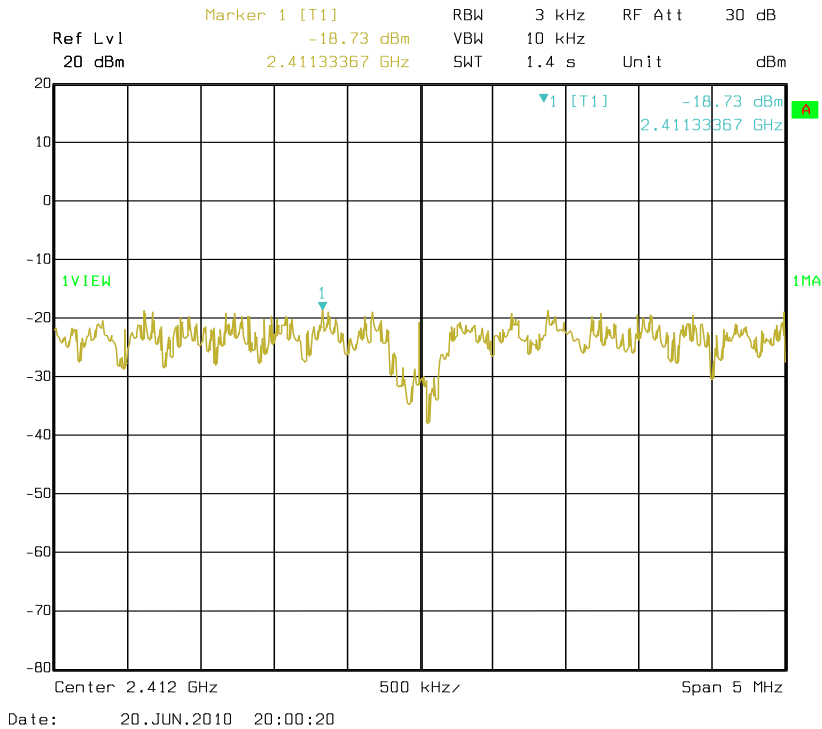
802.11b 5.5Mbps, Middle Channel

802.11b 5.5Mbps, High Channel


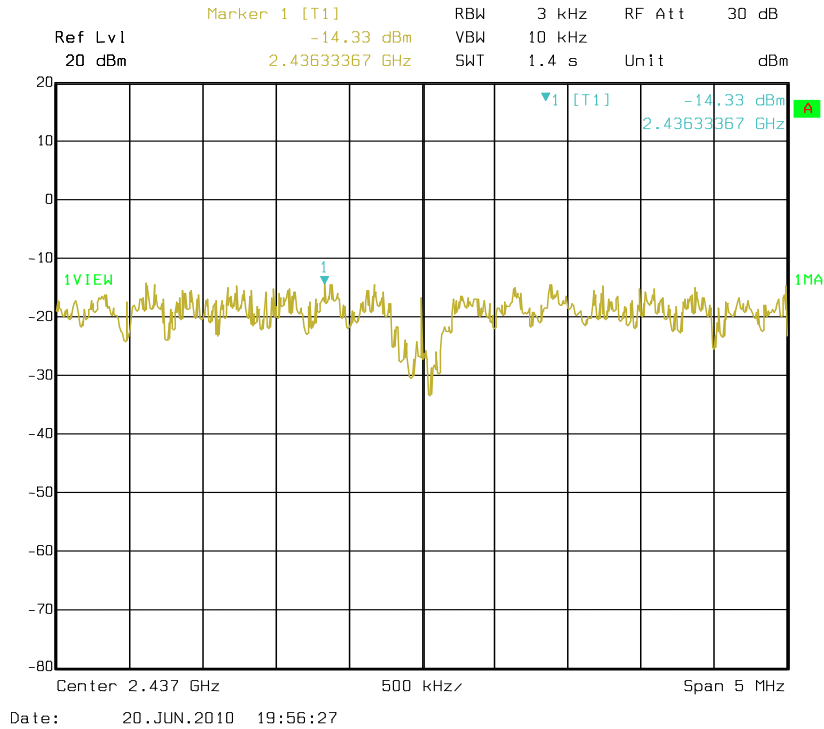
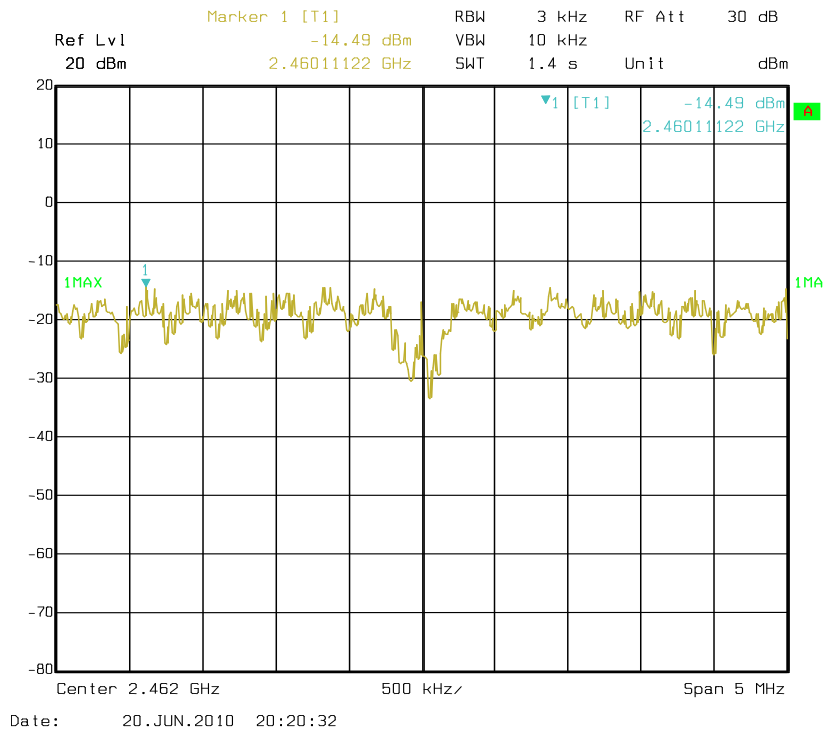
802.11b 11Mbps, Low Channel

802.11b 11Mbps, Middle Channel


802.11b 11Mbps, High Channel

802.11g 6Mbps, Low Channel


802.11g 6Mbps, Middle Channel

802.11g 6Mbps, High Channel


802.11g 24Mbps, Low Channel

802.11g 24Mbps, Middle Channel


802.11g 24Mbps, High Channel

802.11g 54Mbps, Low Channel


802.11g 54Mbps, Middle Channel

802.11g 54Mbps, High Channel


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5.1.6 Spurious Emission

RESULT:**Passed**

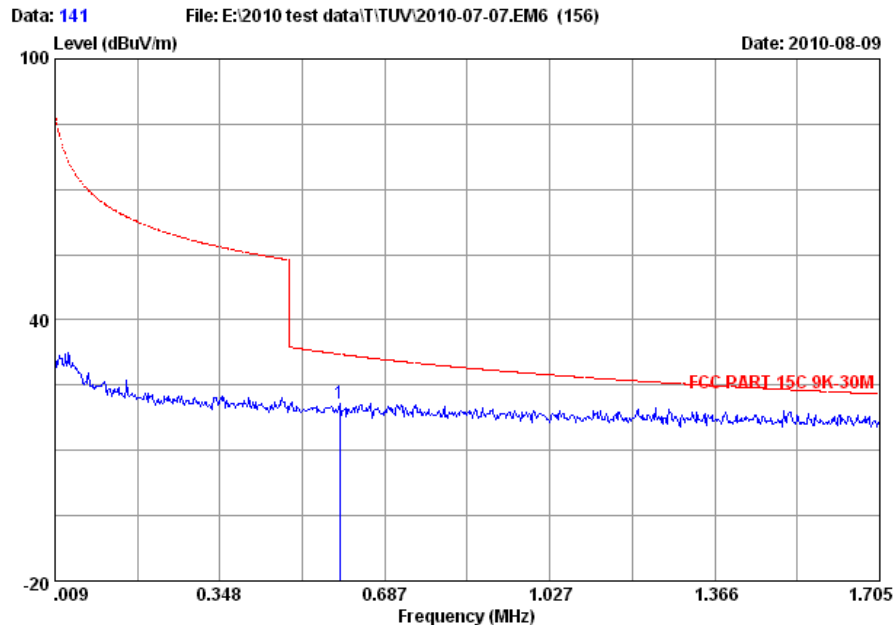
Date of testing : 2010-07-20
Test standard : FCC part 15.247(d)
Basic standard : ANSI C63.4: 2003
Limits : Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.1.a & A.1.b
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Test Plot of Radiated emissions, Mode A.1.a, 9kHz - 30MHz


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 Postcode:518057



Site no. : RF Chamber Data no. : 141
 Dis. / Ant. : 3m 9K-30M ANT Ant. pol. : VERTICAL
 Limit : FCC PART 15C 9K-30M
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b
 M/N : W1030

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	0.59412	25.48	0.35	0.00	-4.89	20.94	32.12	11.18	Peak

Remarks:

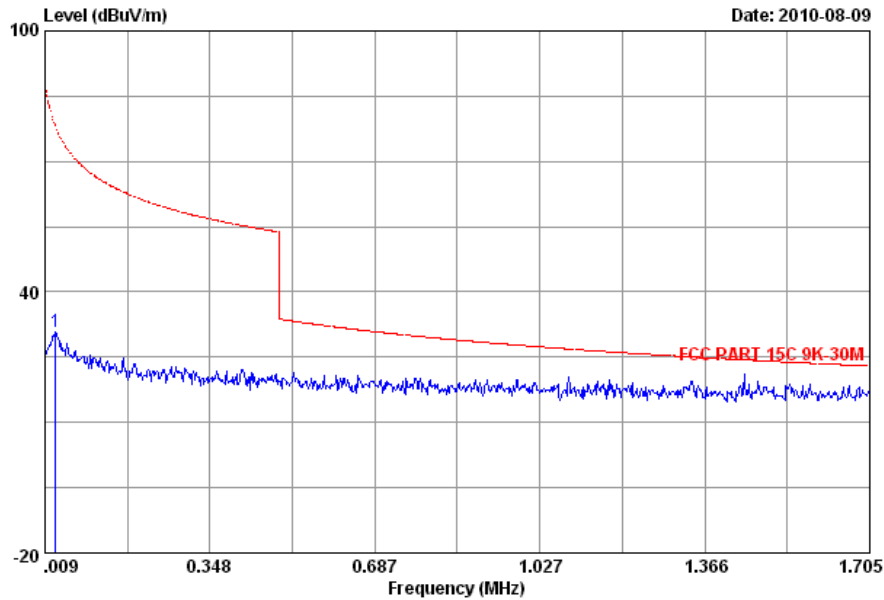
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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 Postcode:518057

Data: 142 File: E:\2010 test data\TITUV\2010-07-07.EM6 (156)

Date: 2010-08-09



Site no. : RF Chamber Data no. : 142
 Dis. / Ant. : 3m 9K-30M ANT Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C 9K-30M
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b
 M/N : W1030

	Ant.	Cable	Amp.	Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	0.03105-500.00	0.35	0.00	530.52	30.87	78.09	47.22	Peak	

Remarks:

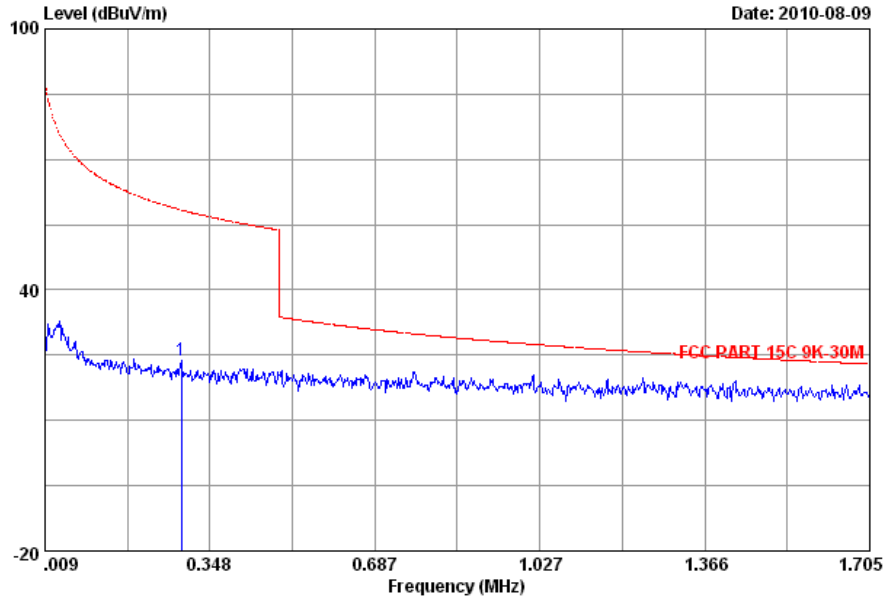
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 143 File: E:\2010 test data\TUV\2010-07-07.EM6 (156)

Date: 2010-08-09



Site no. : RF Chamber Data no. : 143
 Dis. / Ant. : 3m 9K-30M ANT Ant. pol. : VERTICAL
 Limit : FCC PART 15C 9K-30M
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g
 M/N : W1030

	Ant.	Cable	Amp.	Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	0.28884	25.59	0.35	0.00	-2.29	23.65	58.39	34.74	Peak

Remarks:

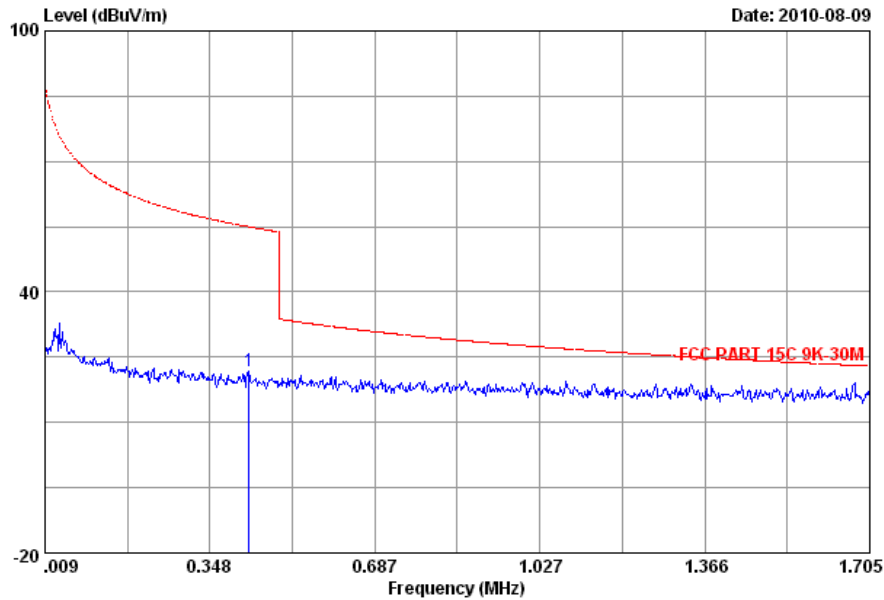
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 Postcode:518057

Data: 144 File: E:\2010 test data\TUV\2010-07-07.EM6 (156)

Date: 2010-08-09



Site no. : RF Chamber Data no. : 144
 Dis. / Ant. : 3m 9K-30M ANT Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C 9K-30M
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g
 M/N : W1030

	Ant.	Cable	Amp.	Emission					
	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dB)		
1	0.42791	38.77	0.35	0.00	-17.27	21.85	54.98	33.13	Peak

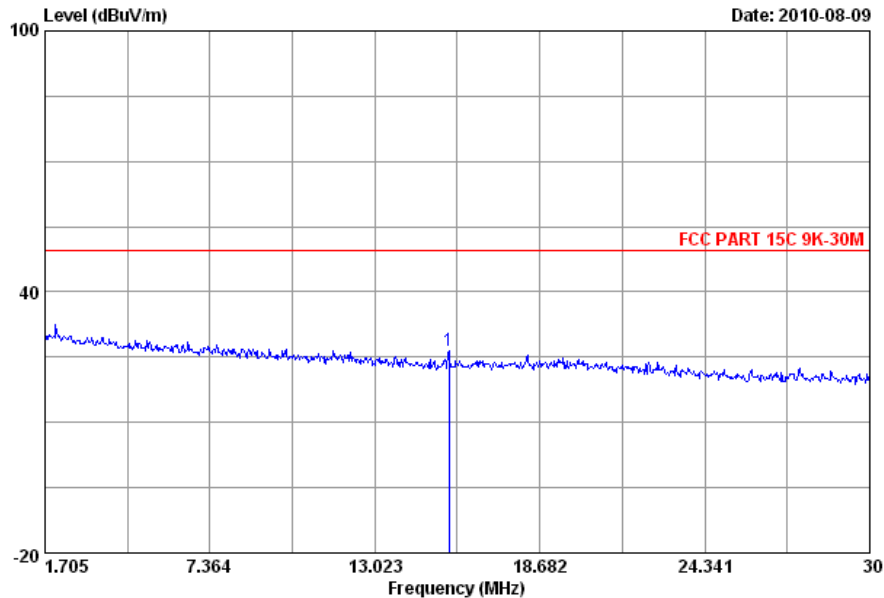
Remarks:

1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 Postcode:518057

Data: 153 File: E:\2010 test data\T\TUV\2010-07-07.EM6 (156)



Site no.	: RF Chamber	Data no.	: 153
Dis. / Ant.	: 3m 9K-30M ANT	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C 9K-30M		
Env. / Ins.	: 23°C/54%	Engineer	: Paul Tian
EUT	: Digital Photo Frame with WIFI		
Power	: 120V/60Hz		
Test mode	: Tx 11b		
M/N	: W1030		

	Ant.	Cable	Amp.	Emission					
	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	15.570	19.80	0.35	0.00	6.47	26.62	49.54	22.92	Peak

Remarks:

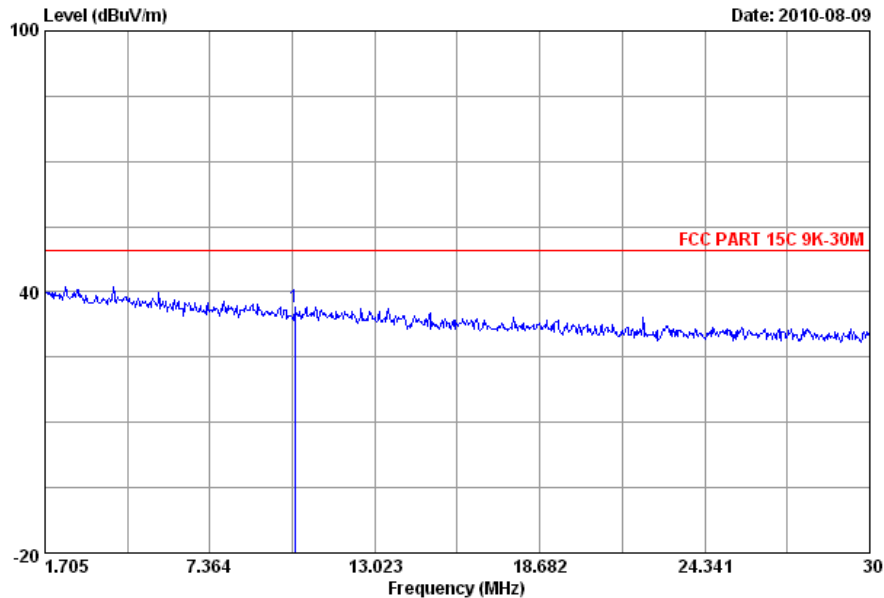
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 Postcode:518057

Data: 154 File: E:\2010 test data\T\TUV\2010-07-07.EM6 (156)

Date: 2010-08-09



Site no. : RF Chamber Data no. : 154
 Dis. / Ant. : 3m 9K-30M ANT Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C 9K-30M
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b
 M/N : W1030

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	10.278	34.50	0.35	0.00	1.79	36.64	49.54	12.90	Peak

Remarks:

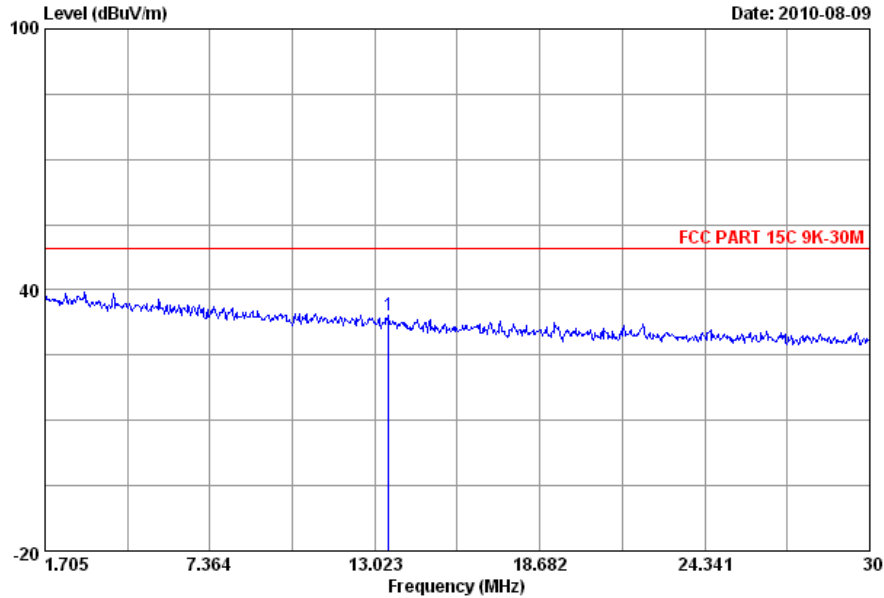
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 Postcode:518057

Data: 155 File: E:\2010 test data\TUV\2010-07-07.EM6 (156)

Date: 2010-08-09



Site no. : RF Chamber Data no. : 155
 Dis. / Ant. : 3m 9K-30M ANT Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C 9K-30M
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g
 M/N : W1030

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	13.504	33.34	0.35	0.00	0.58	34.27	49.54	15.27	Peak

Remarks:

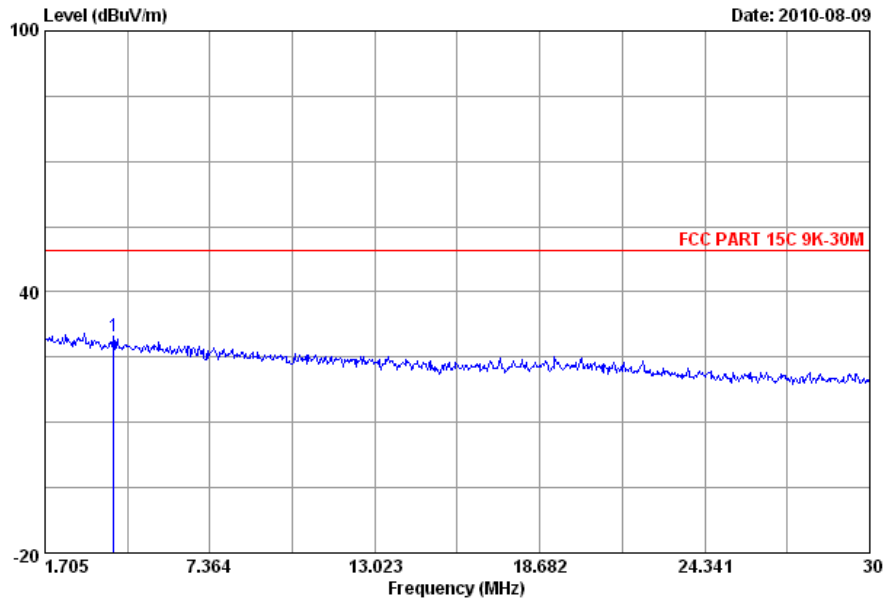
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 156 File: E:\2010 test data\TITUV\2010-07-07.EM6 (156)

Date: 2010-08-09



Site no. : RF Chamber Data no. : 156
 Dis. / Ant. : 3m 9K-30M ANT Ant. pol. : VERTICAL
 Limit : FCC PART 15C 9K-30M
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g
 M/N : W1030

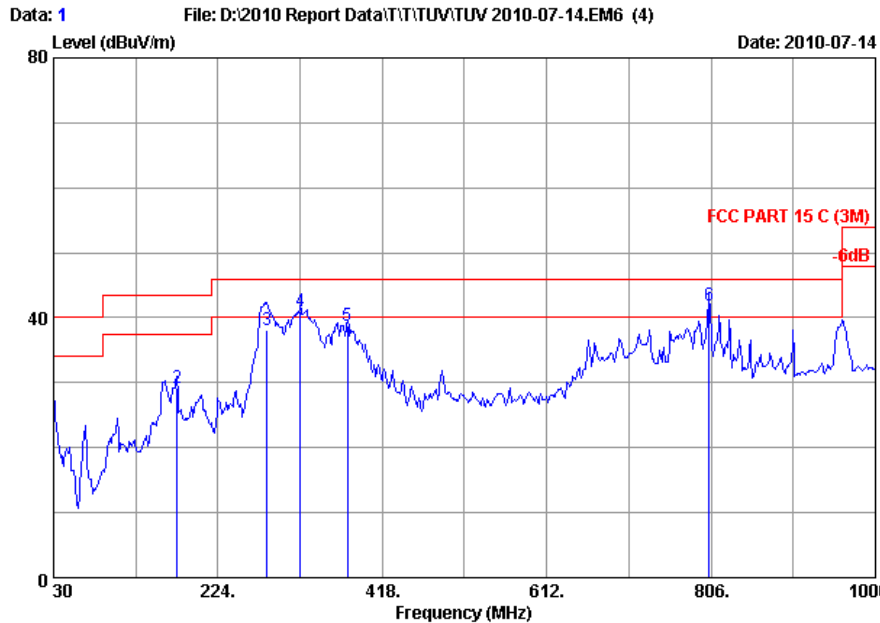
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	4.053	24.16	0.35	0.00	5.44	29.95	49.54	19.59	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Test Plot of Radiated emissions, Mode A.1.a, 30MHz - 1GHz


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Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b
 M/N : W1030

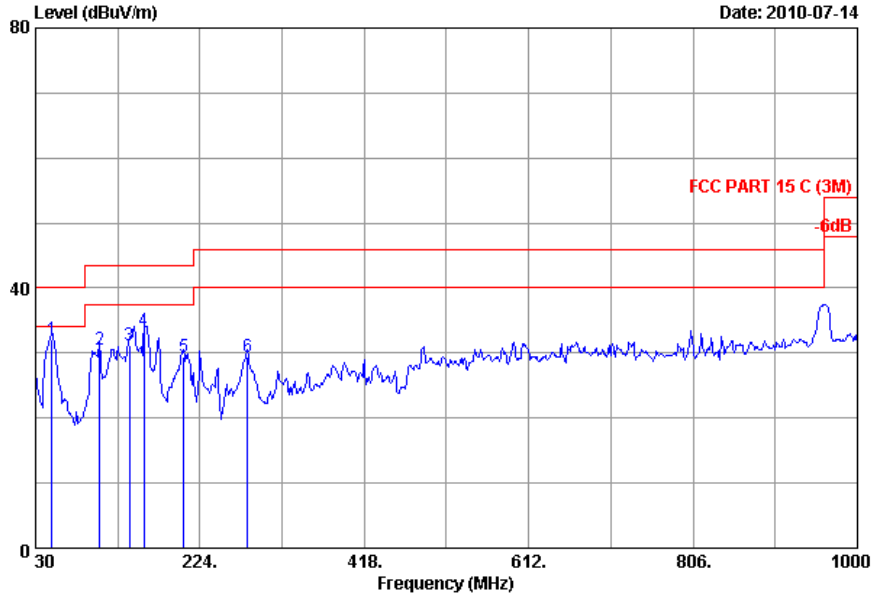
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.00	0.61	7.65	28.26	40.00	11.74	QP
2	175.500	9.65	1.44	17.99	29.08	43.50	14.42	QP
3	282.200	13.28	2.37	22.50	38.15	46.00	7.85	QP
4	321.000	14.22	2.57	24.14	40.93	46.00	5.07	QP
5	377.260	15.64	2.81	20.30	38.75	46.00	7.25	QP
6	804.060	22.00	4.91	14.88	41.79	46.00	4.21	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 2 File: D:\2010 Report Data\TIT\TUV\TUV 2010-07-14.EM6 (4) Date: 2010-07-14



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b
 M/N : W1030

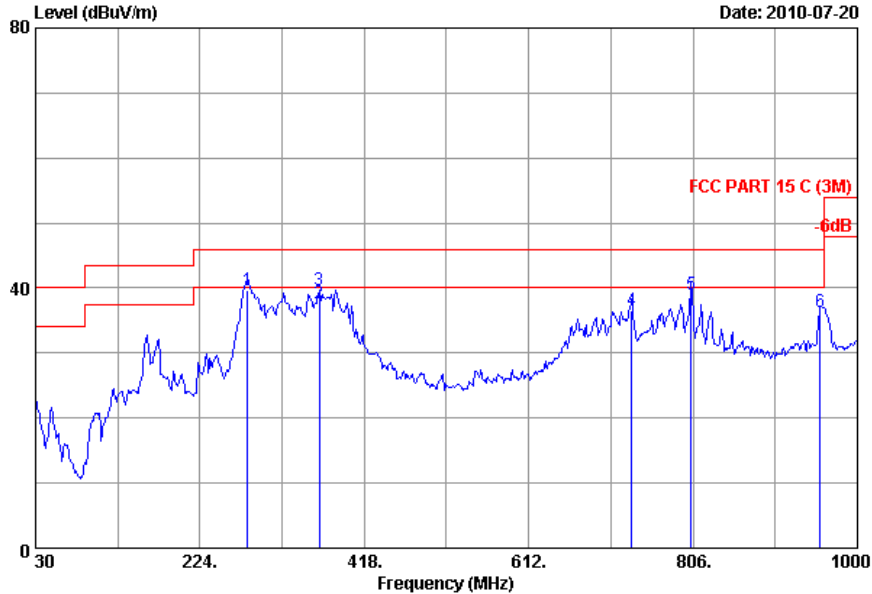
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	49.400	9.72	0.77	21.60	32.09	40.00	7.91	QP
2	105.660	11.00	1.12	18.47	30.59	43.50	12.91	QP
3	140.580	11.98	1.14	18.09	31.21	43.50	12.29	QP
4	158.040	11.18	1.23	20.95	33.36	43.50	10.14	QP
5	204.600	10.10	1.76	17.66	29.52	43.50	13.98	QP
6	280.260	13.20	2.36	13.91	29.47	46.00	16.53	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 3 File: D:\2010 Report Data\TIT\TUV\TUV 2010-07-14.EM6 (4) Date: 2010-07-20



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g
 M/N : W1030

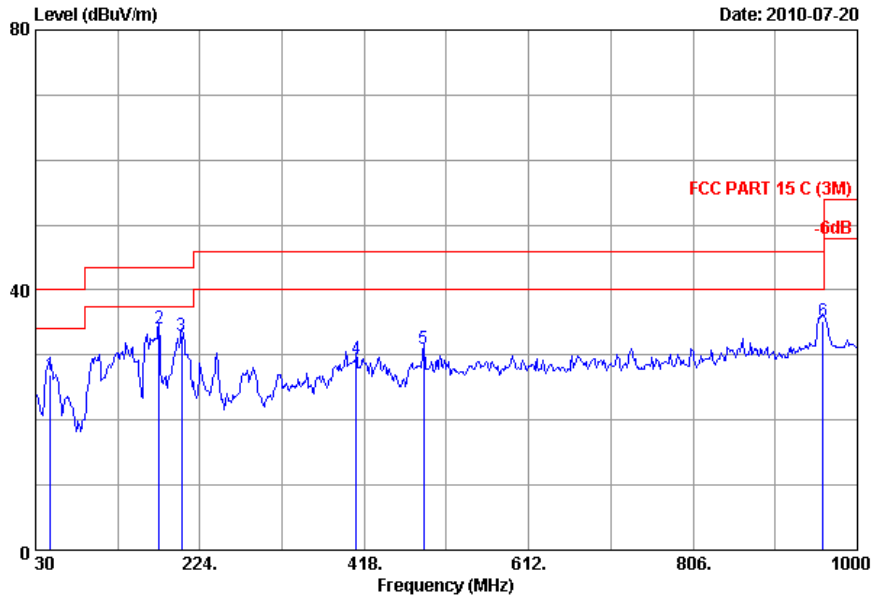
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	280.260	13.20	2.36	24.05	39.61	46.00	6.39	QP
2	364.650	15.55	2.76	19.38	37.69	46.00	8.31	QP
3	364.650	15.55	2.76	21.38	39.69	46.00	6.31	QP
4	733.250	21.45	4.63	10.36	36.44	46.00	9.56	QP
5	804.060	22.00	4.91	12.16	39.07	46.00	6.93	QP
6	956.350	24.29	5.41	6.58	36.28	46.00	9.72	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 4 File: D:\2010 Report Data\TIT\TUV\TUV 2010-07-14.EM6 (4) Date: 2010-07-20



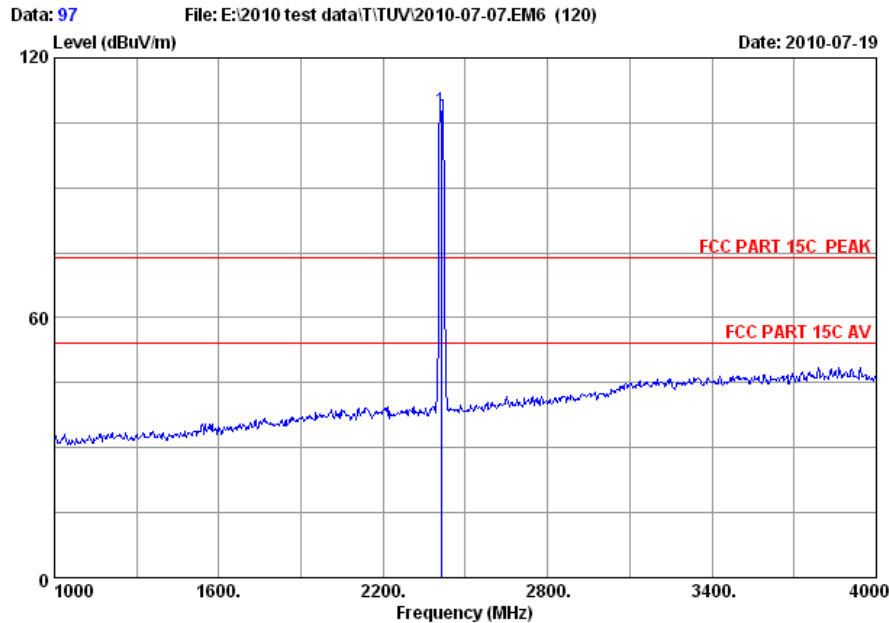
Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g
 M/N : W1030

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	47.460	10.55	0.76	15.74	27.05	40.00	12.95	QP
2	175.500	9.65	1.44	23.00	34.09	43.50	9.41	QP
3	202.660	10.06	1.75	21.28	33.09	43.50	10.41	QP
4	408.300	16.48	2.97	9.94	29.39	46.00	16.61	QP
5	487.840	18.18	3.47	9.27	30.92	46.00	15.08	QP
6	959.260	24.37	5.43	5.50	35.30	46.00	10.70	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Test Plot of Radiated emissions, Mode A.1.a, 1 - 4GHZ


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Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH1 2412MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2412.000	29.45	7.43	36.62	107.67	107.93	74.00	-33.93	Peak

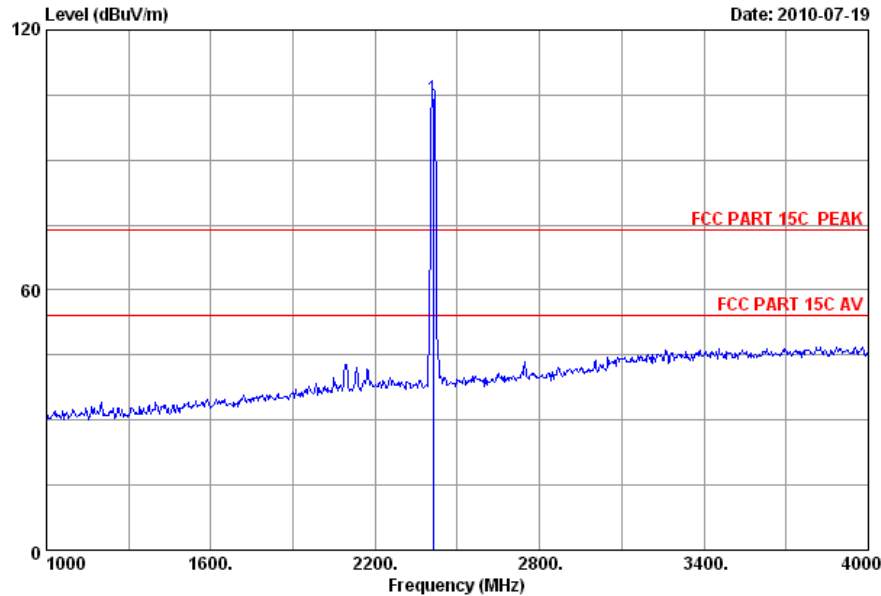
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 98 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH1 2412MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2412.000	29.45	7.43	36.62	103.95	104.21	74.00	-30.21	Peak

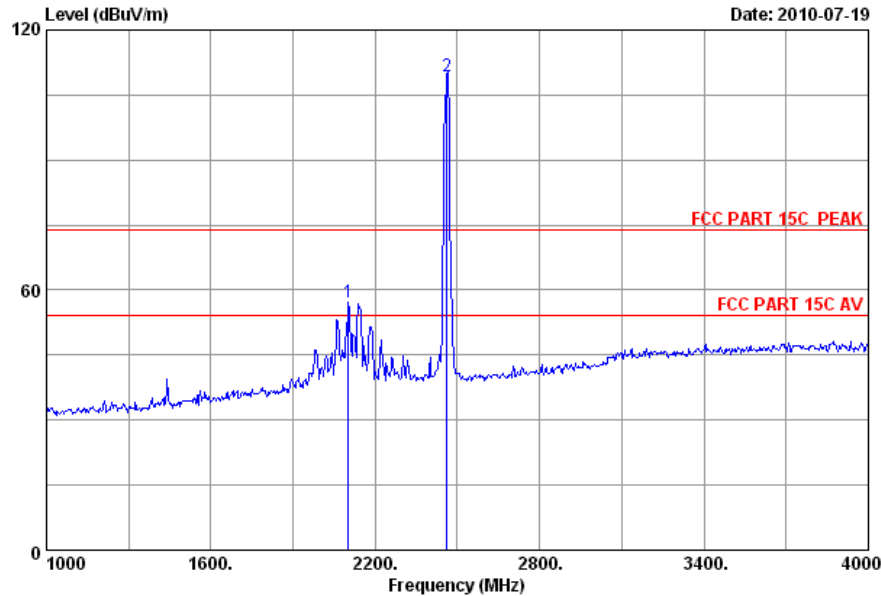
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 99 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH11 2462MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2101.000	29.26	6.86	36.68	57.78	57.22	74.00	16.78	Peak
2 2462.000	29.48	7.54	36.61	108.93	109.34	74.00	-35.34	Peak

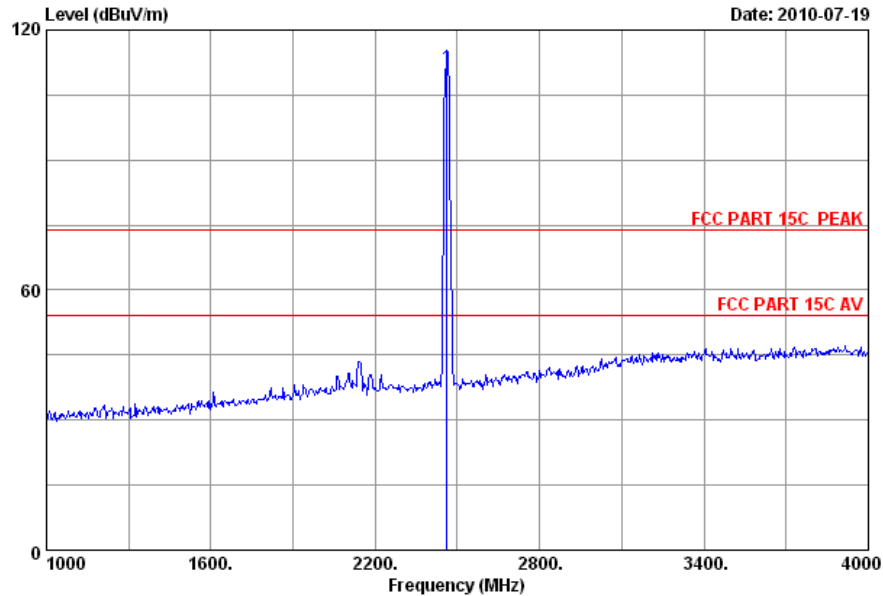
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 100 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH11 2462MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2462.000	29.48	7.54	36.61	111.04	111.45	74.00	-37.45	Peak

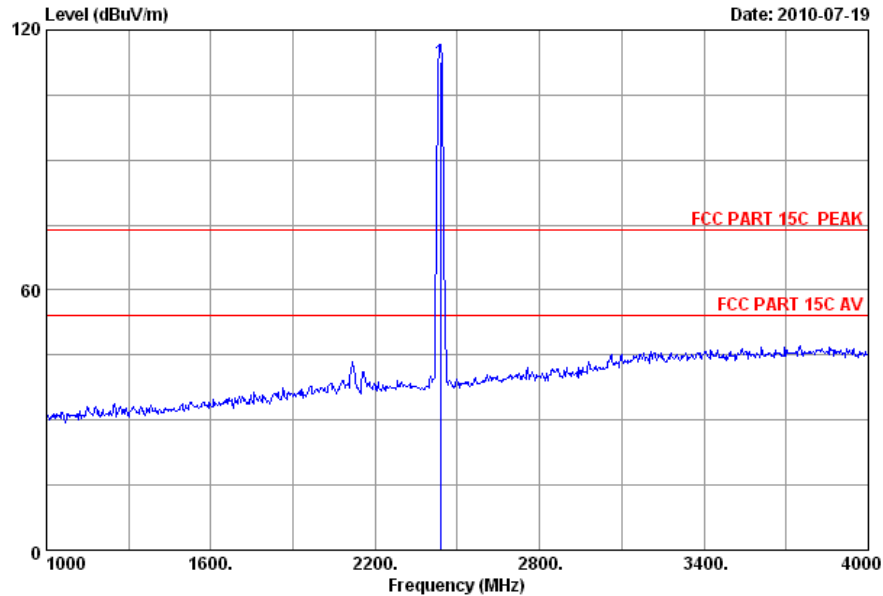
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 101 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH6 2437MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2437.000	29.47	7.46	36.61	112.20	112.52	74.00	-38.52	Peak

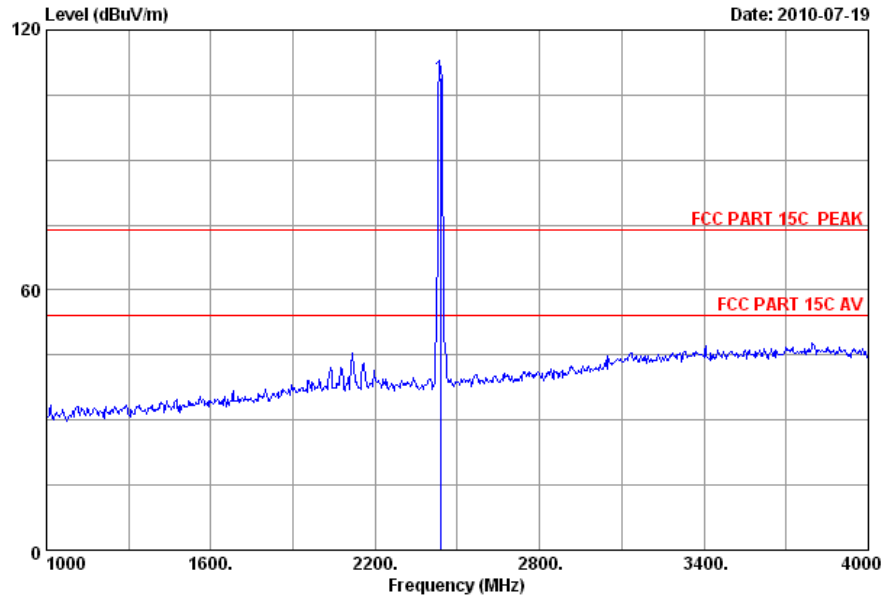
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 102 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH6 2437MHz
 M/N : W1030

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2437.000	29.47	7.46	36.61	108.69	109.01	74.00	-35.01	Peak

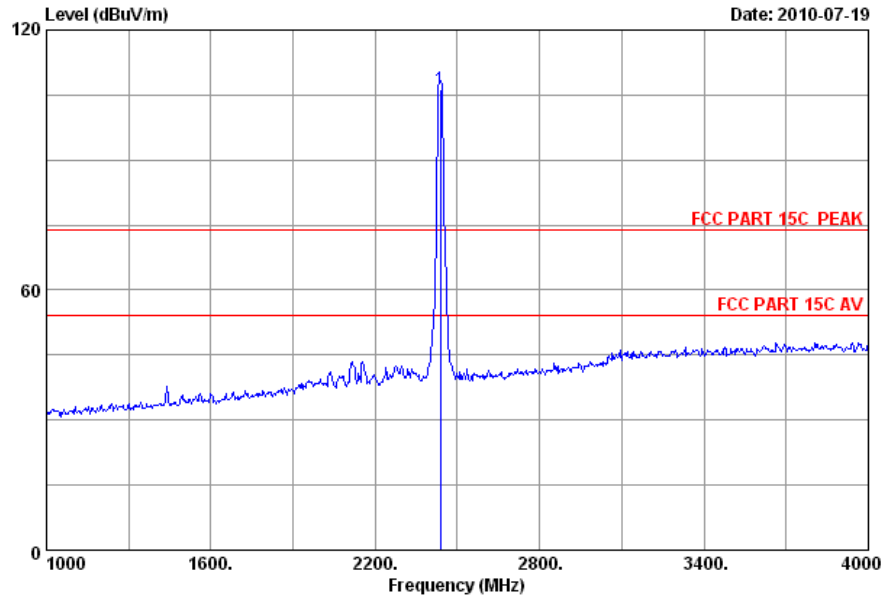
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 103 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no.	: 3m Chamber	Data no.	: 103
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	M/N	: W1030
Test mode	: Tx 11g CH6 2437MHz		

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2437.000	29.47	7.46	36.61	106.10	106.42	74.00	-32.42	Peak

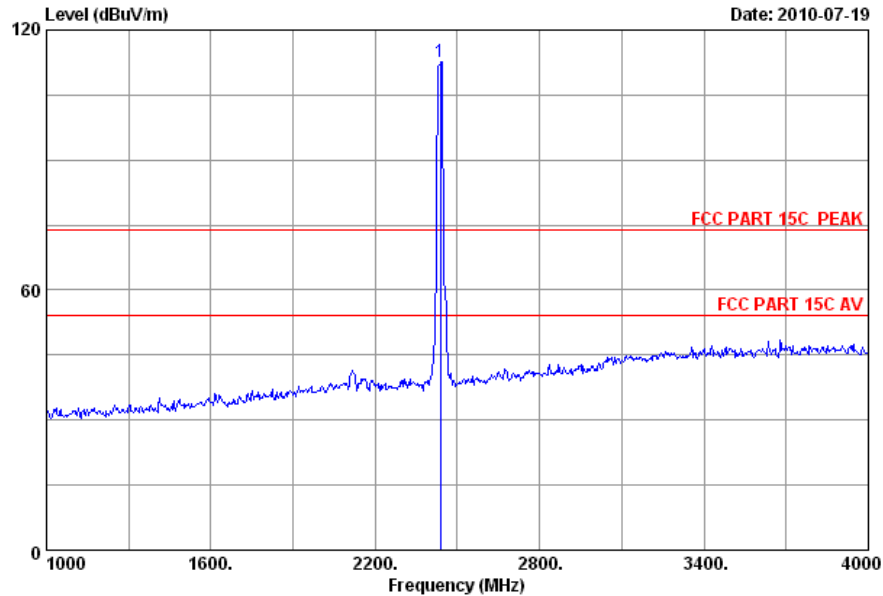
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 104 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g CH6 2437MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2437.000	29.47	7.46	36.61	112.35	112.67	74.00	-38.67	Peak

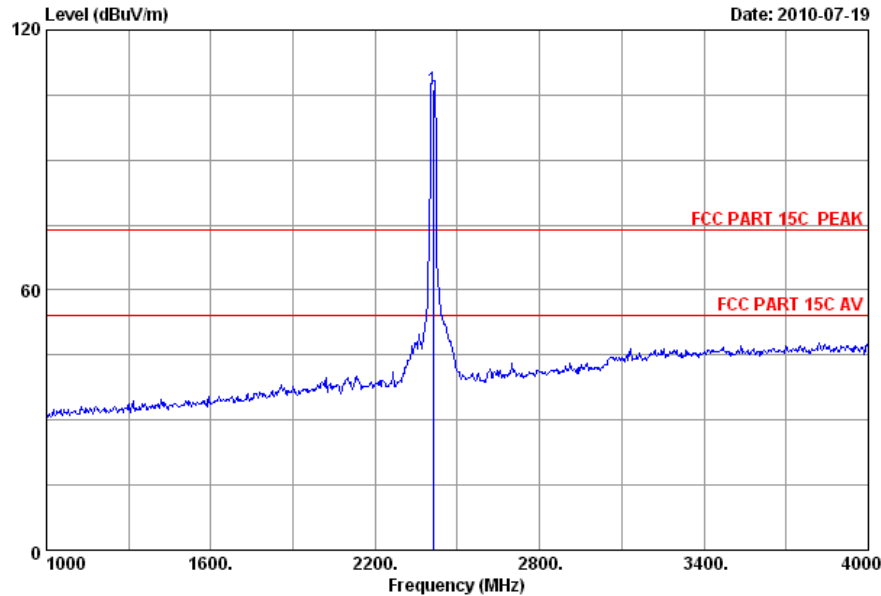
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 105 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 105
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g CH1 2412MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2412.000	29.45	7.43	36.62	105.92	106.18	74.00	-32.18	Peak

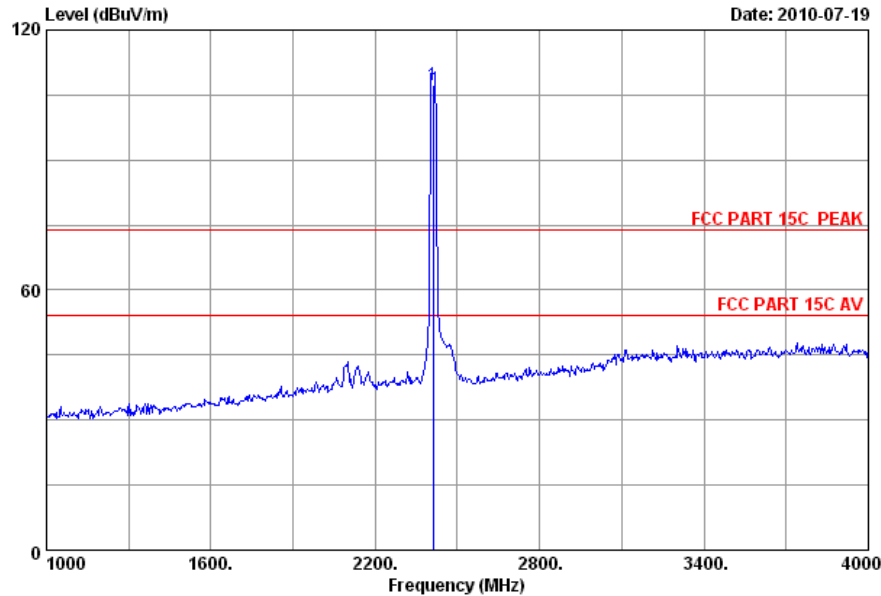
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 106 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no.	: 3m Chamber	Data no.	: 106
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	M/N	: W1030
Test mode	: Tx 11g CH1 2412MHz		

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2412.000	29.45	7.43	36.62	106.89	107.15	74.00	-33.15	Peak

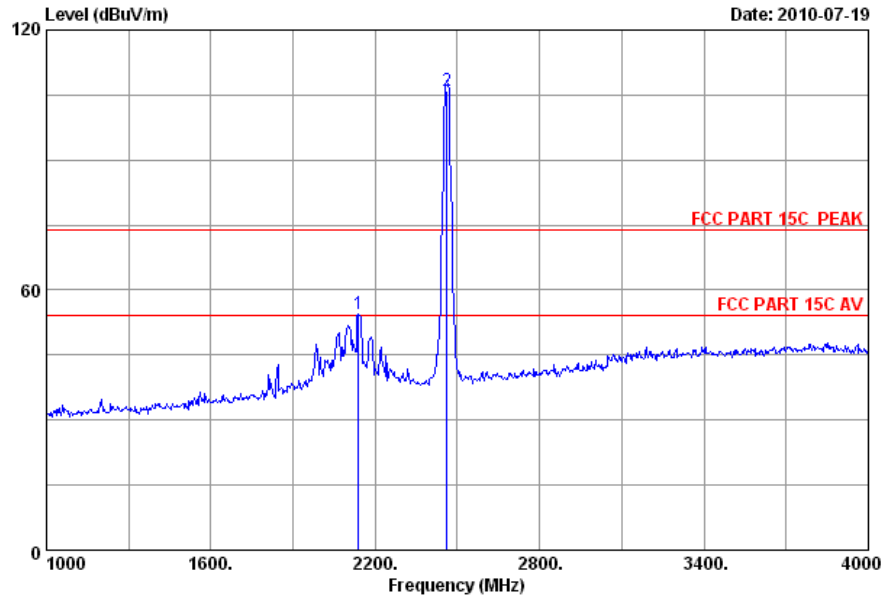
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 107 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 107
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g CH11 2462MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2140.000	29.28	6.93	36.67	55.08	54.62	74.00	19.38	Peak
2 2462.000	29.48	7.54	36.61	105.39	105.80	74.00	-31.80	Peak

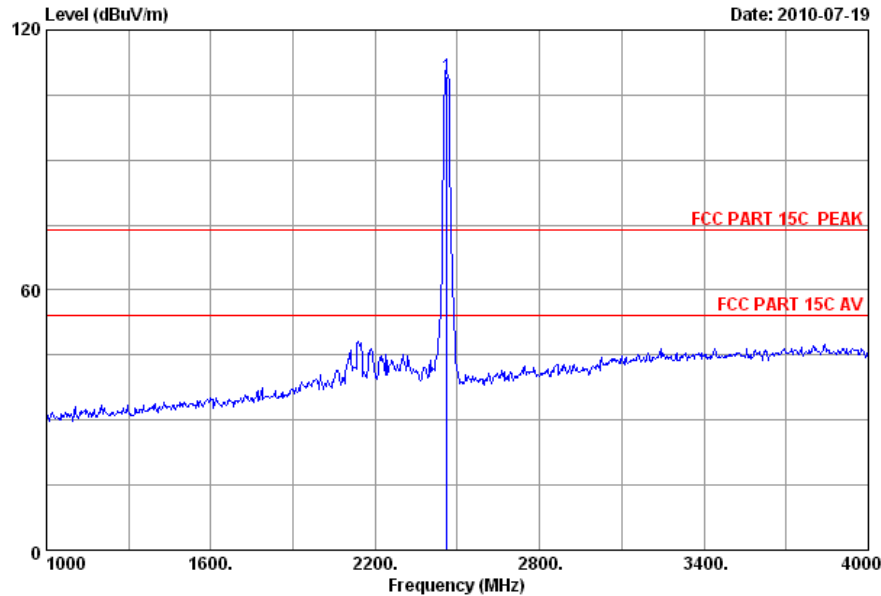
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 108 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 108
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g CH11 2462MHz
 M/N : W1030

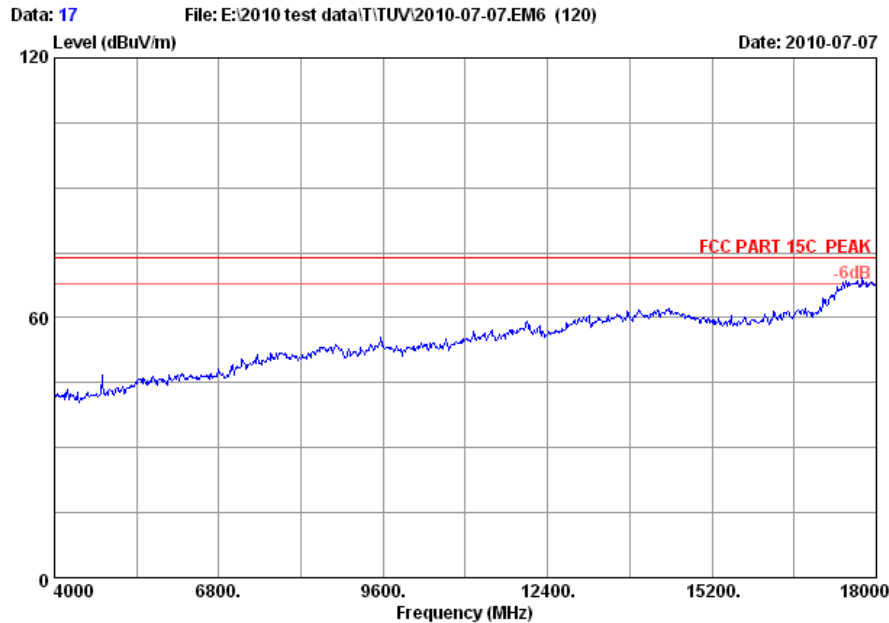
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2462.000	29.48	7.54	36.61	108.98	109.39	74.00	-35.39	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Test Plot of Radiated emissions, Mode A.1.a, 4 - 18GHz


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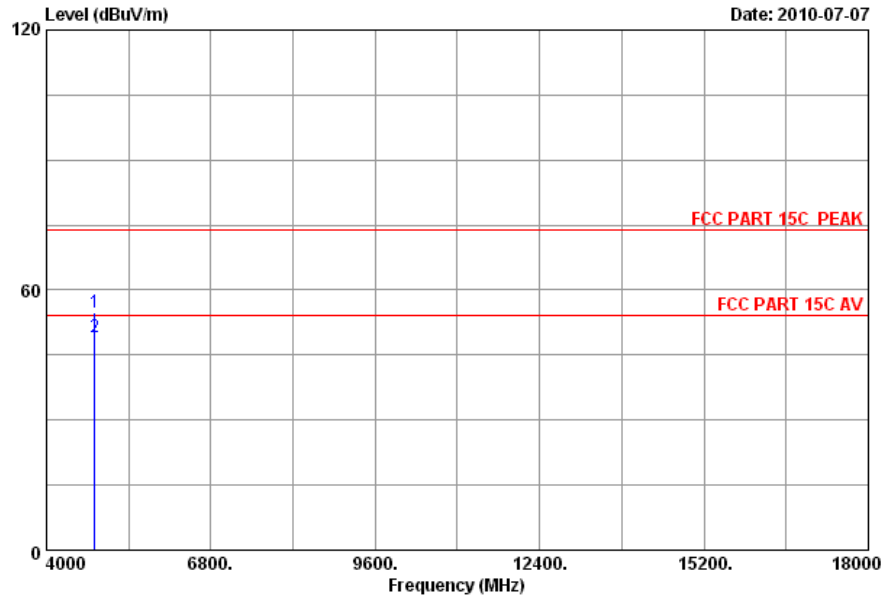
Site no.	: 3m Chamber	Data no.	: 17
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	Test mode	: Tx 11b CH1 2412MHz
M/N	: W1030		



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Data: 18 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH1 2412MHz
 M/N : W1030

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4824.000	34.32	10.64	35.08	44.99	54.87	74.00	19.13	Peak
2	4824.000	34.32	10.64	35.08	39.37	49.25	54.00	4.75	Average

Remarks:

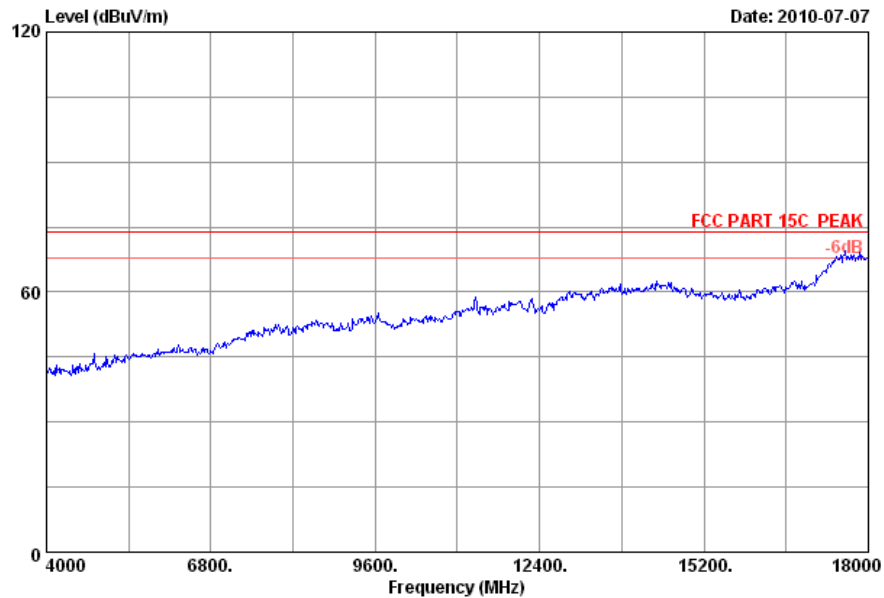
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 19 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07

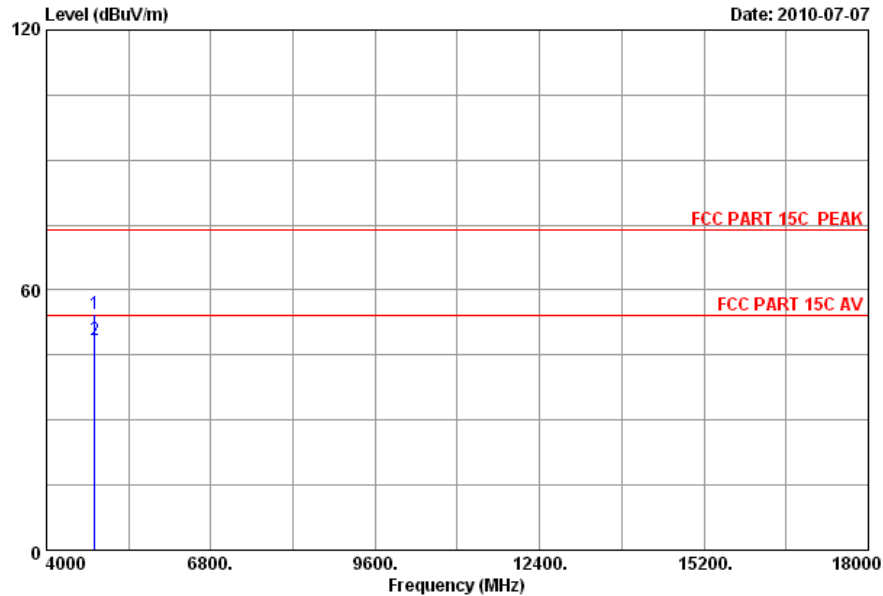


Site no.	: 3m Chamber	Data no.	: 19
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul Tian
EUT	: Digital Photo Frame with WIFI		
Power	: 120V/60Hz		
Test mode	: Tx 11b CH1 2412MHz		
M/N	: W1030		



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Data: 20 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH1 2412MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 4824.000	34.32	10.64	35.08	44.69	54.57	74.00	19.43	Peak
2 4824.000	34.32	10.64	35.08	38.65	48.53	54.00	5.47	Average

Remarks:

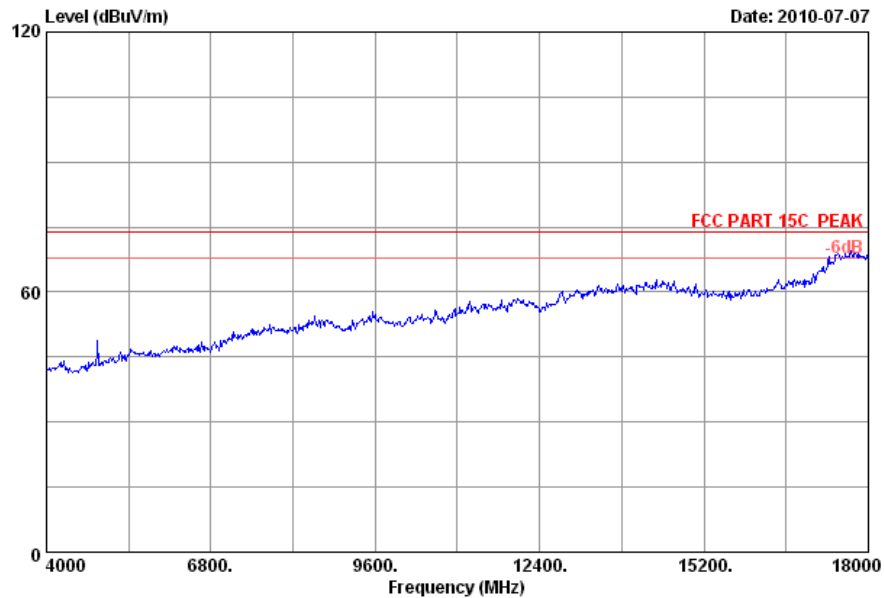
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 21 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07

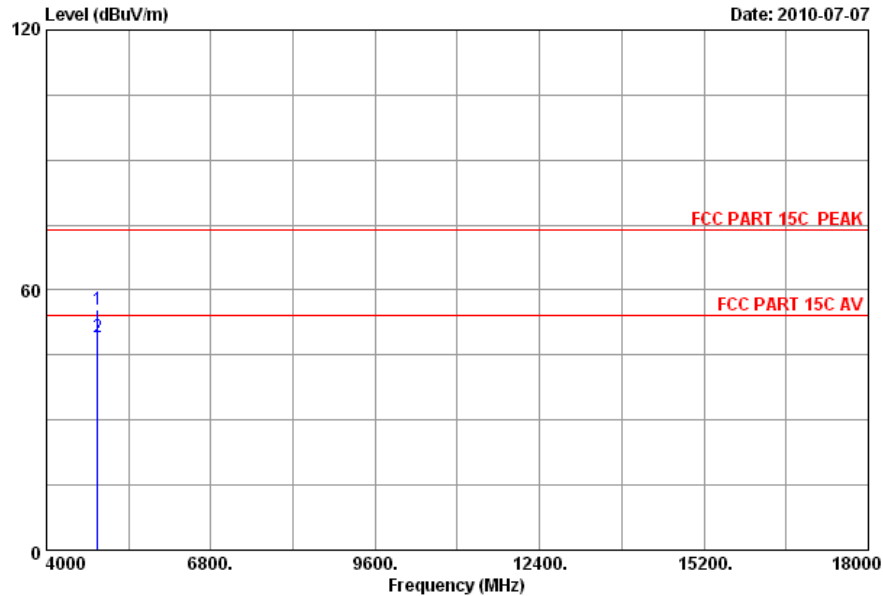


Site no.	: 3m Chamber	Data no.	: 21
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	M/N	: W1030
Test mode	: Tx 11b CH6 2437MHz		



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Data: 22 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH6 2437MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1 4874.000	34.41	10.69	35.03	45.26	55.33	74.00	18.67	Peak
2 4874.000	34.41	10.69	35.03	39.17	49.24	54.00	4.76	Average

Remarks:

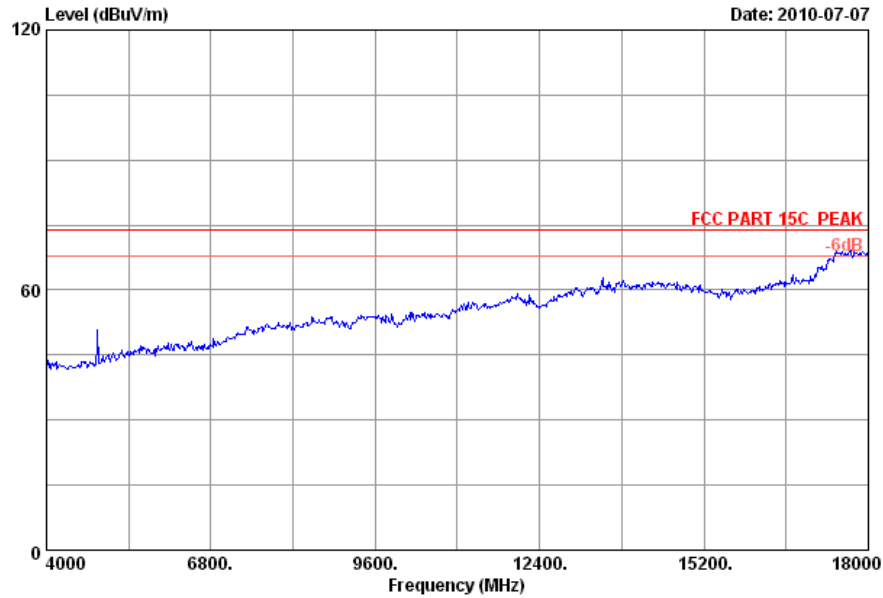
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 23 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



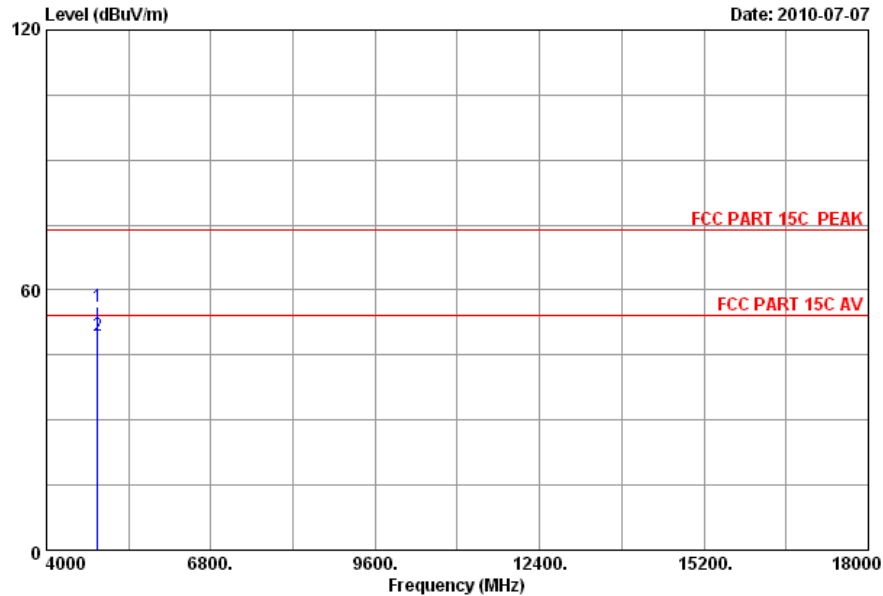
Site no.	: 3m Chamber	Data no.	: 23
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	M/N	: W1030
Test mode	: Tx 11b CH6 2437MHz		



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Data: 24 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH6 2437MHz
 M/N : W1030

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	46.13	56.20	74.00	17.80	Peak
2	4874.000	34.41	10.69	35.03	39.39	49.46	54.00	4.54	Average

Remarks:

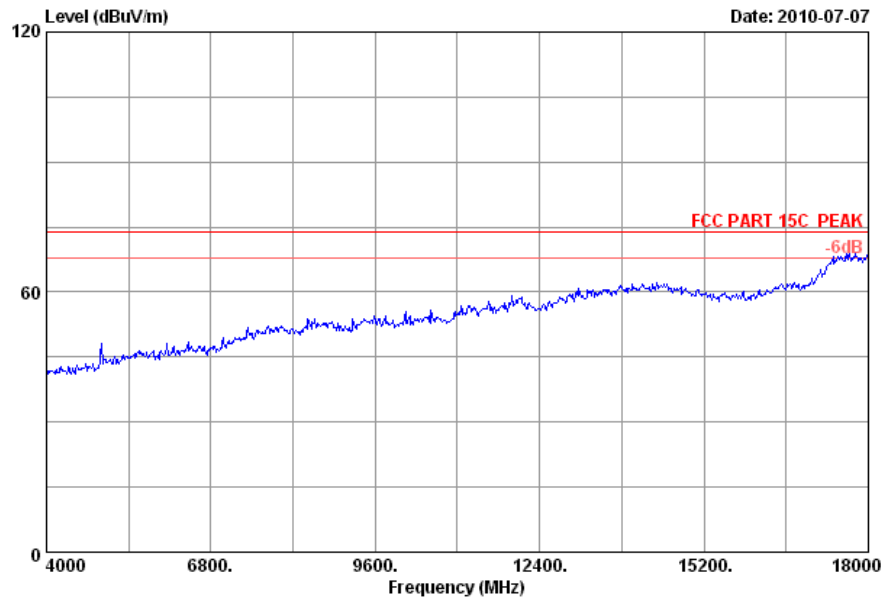
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 25 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



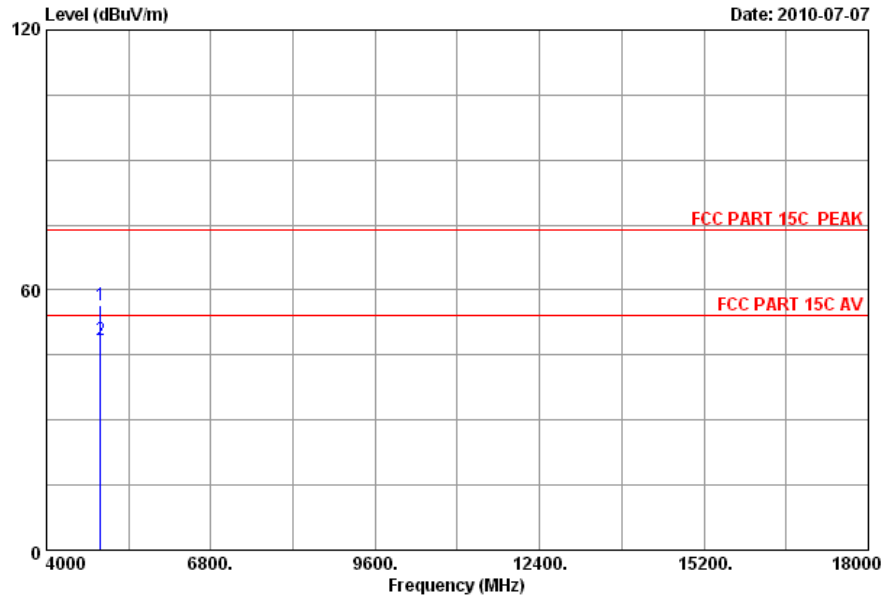
Site no.	: 3m Chamber	Data no.	: 25
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	M/N	: W1030
Test mode	: Tx 11b CH11 2462MHz		



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Data: 26 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH11 2462MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 4924.000	34.49	10.76	34.98	46.33	56.60	74.00	17.40	Peak
2 4924.000	34.49	10.76	34.98	38.07	48.34	54.00	5.66	Average

Remarks:

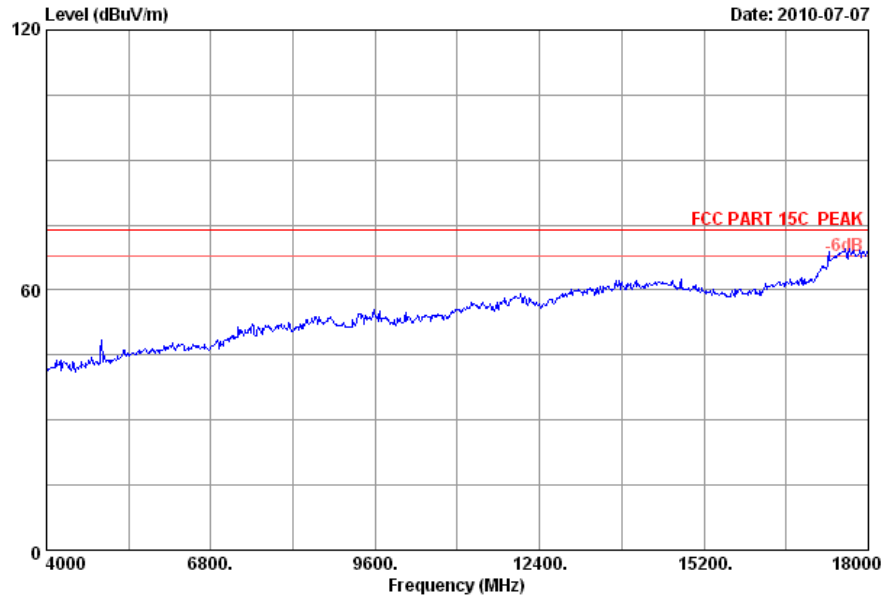
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 27 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



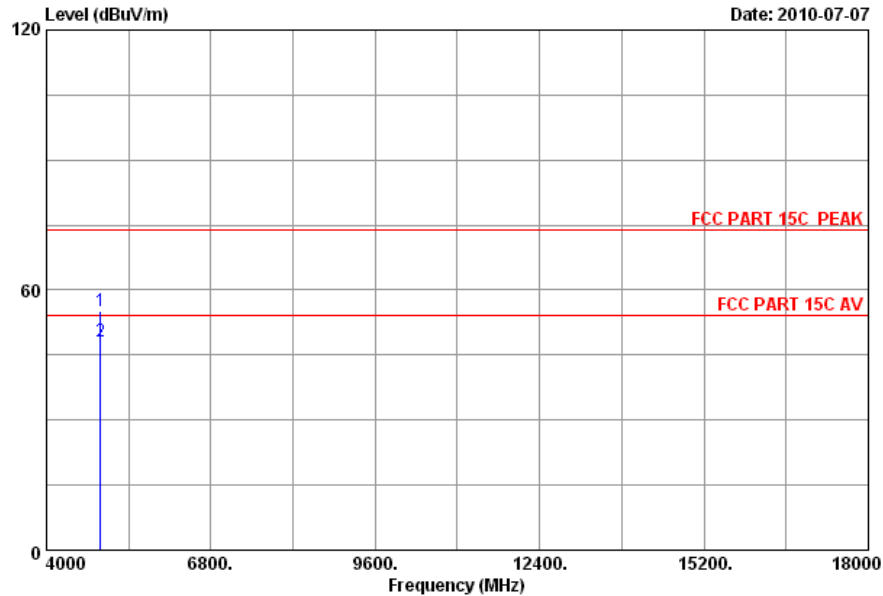
Site no.	: 3m Chamber	Data no.	: 27
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	Test mode	: Tx 11b CH11 2462MHz
M/N	: W1030		



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Data: 28 File: E:\2010 test data\TITUV\2010-07-07.EM6 (120)

Date: 2010-07-07



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11b CH11 2462MHz
 M/N : W1030

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.49	10.76	34.98	44.76	55.03	74.00	18.97	Peak
2	4924.000	34.49	10.76	34.98	37.80	48.07	54.00	5.93	Average

Remarks:

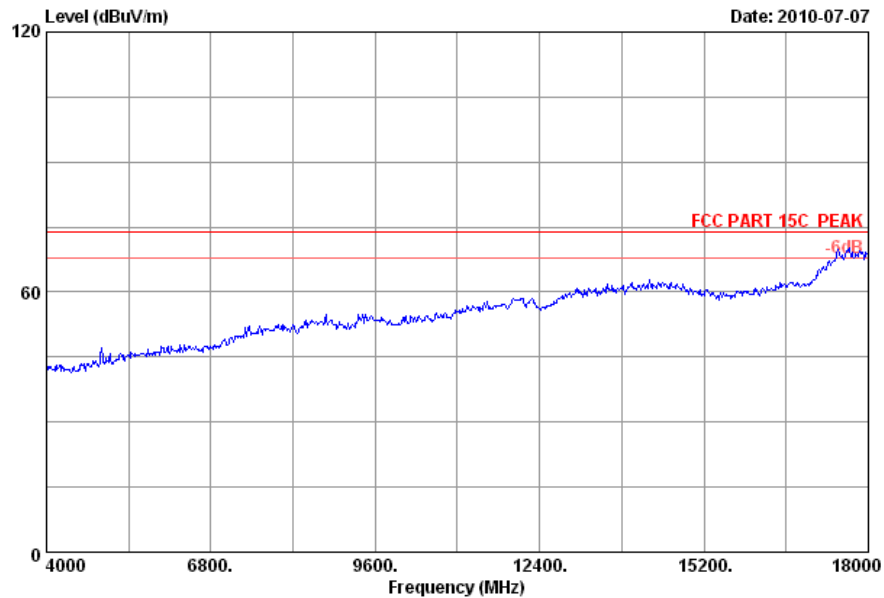
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 29 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



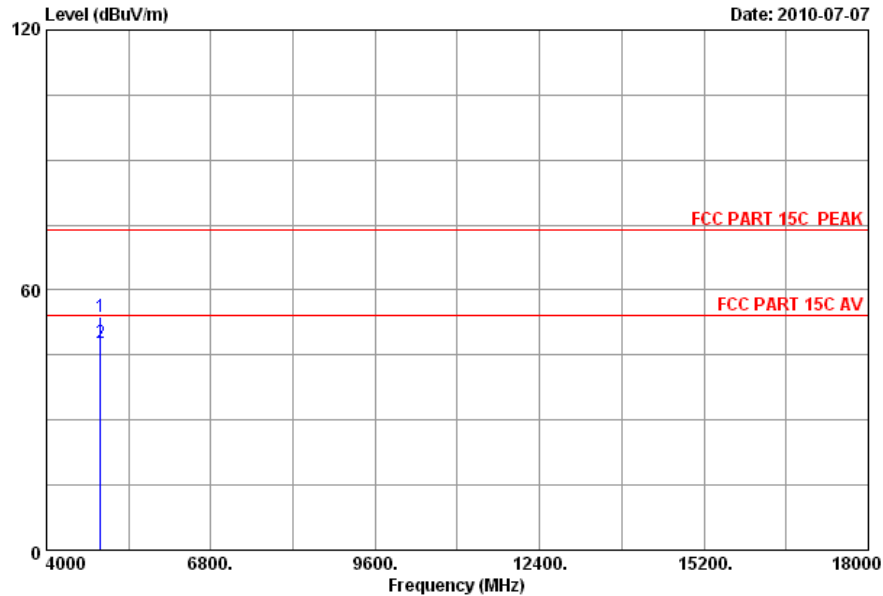
Site no.	: 3m Chamber	Data no.	: 29
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul Tian
EUT	: Digital Photo Frame with WIFI		
Power	: 120V/60Hz		
Test mode	: Tx 11g CH11 2462MHz		
M/N	: W1030		



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Data: 30 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g CH11 2462MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 4924.000	34.49	10.76	34.98	43.65	53.92	74.00	20.08	Peak
2 4924.000	34.49	10.76	34.98	37.57	47.84	54.00	6.16	Average

Remarks:

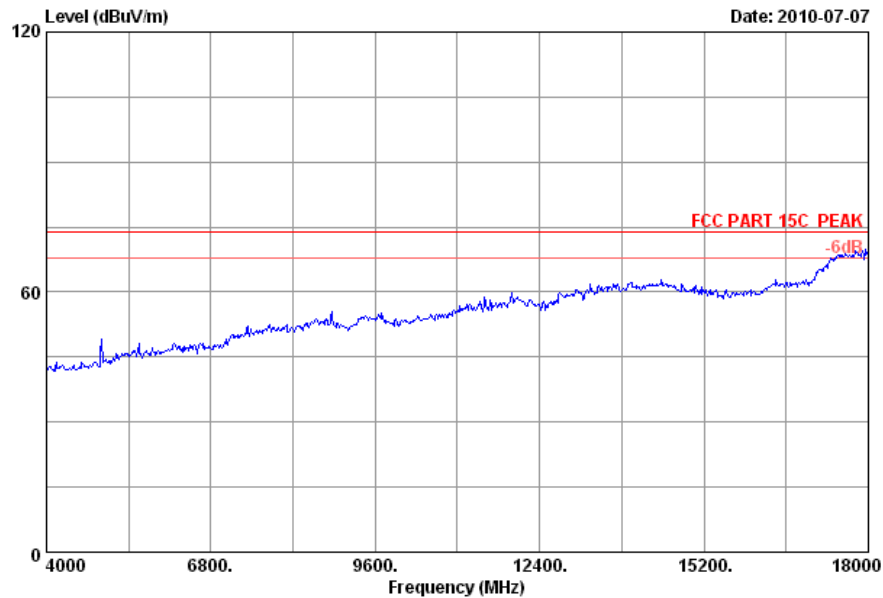
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 31 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07

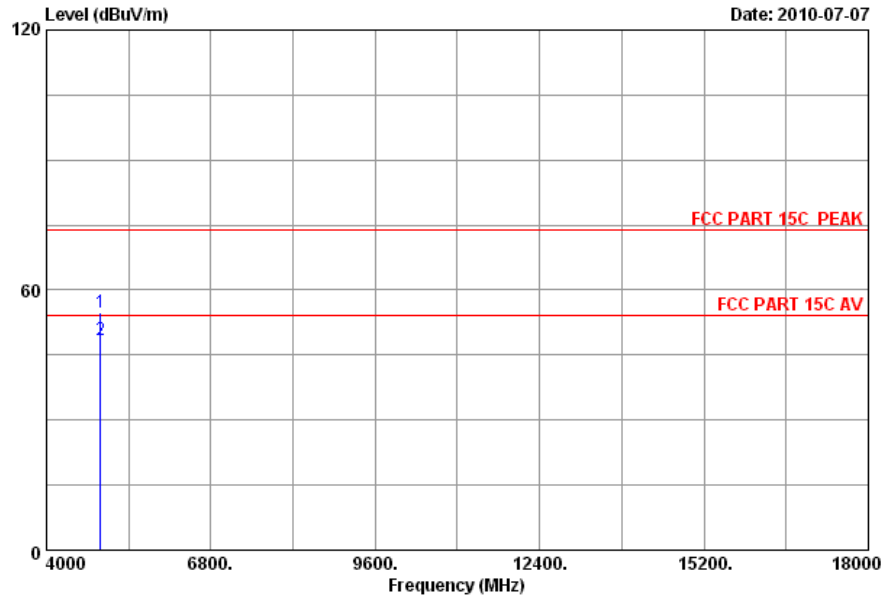


Site no.	: 3m Chamber	Data no.	: 31
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	M/N	: W1030
Test mode	: Tx 11g CH11 2462MHz		



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Data: 32 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g CH11 2462MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 4924.000	34.49	10.76	34.98	44.61	54.88	74.00	19.12	Peak
2 4924.000	34.49	10.76	34.98	38.05	48.32	54.00	5.68	Average

Remarks:

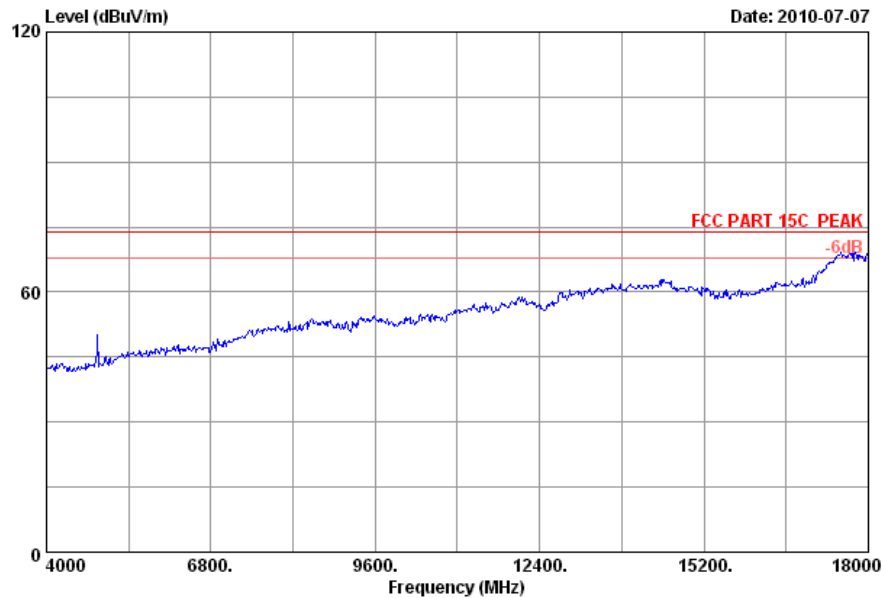
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 33 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



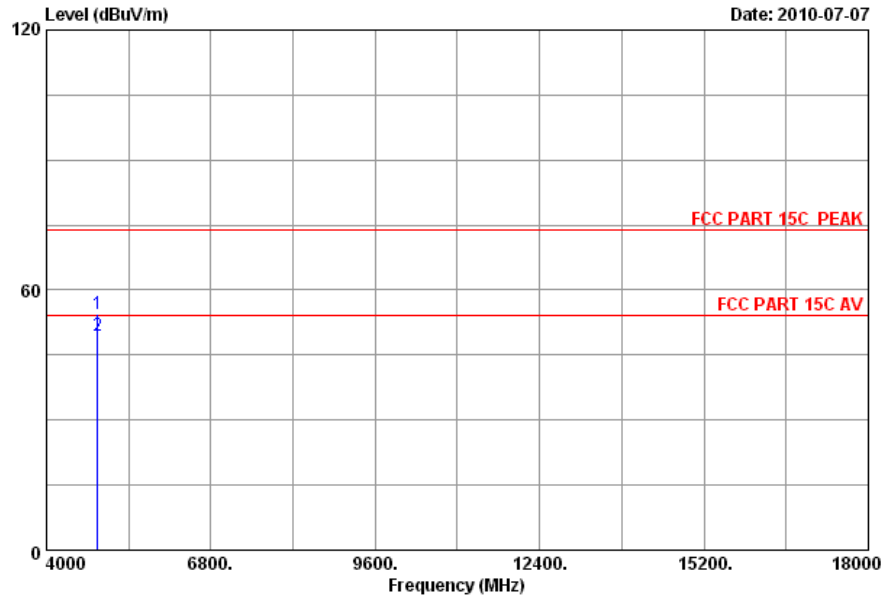
Site no.	: 3m Chamber	Data no.	: 33
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Paul Tian
EUT	: Digital Photo Frame with WIFI		
Power	: 120V/60Hz		
Test mode	: Tx 11g CH6 2437MHz		
M/N	: W1030		



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Data: 34 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g CH6 2437MHz
 M/N : W1030

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	44.55	54.62	74.00	19.38	Peak
2	4874.000	34.41	10.69	35.03	39.33	49.40	54.00	4.60	Average

Remarks:

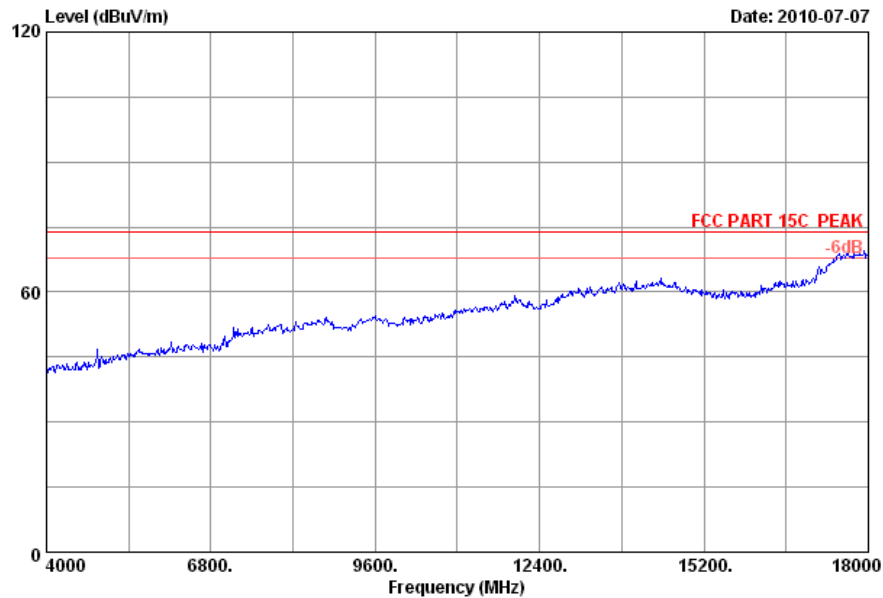
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 35 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



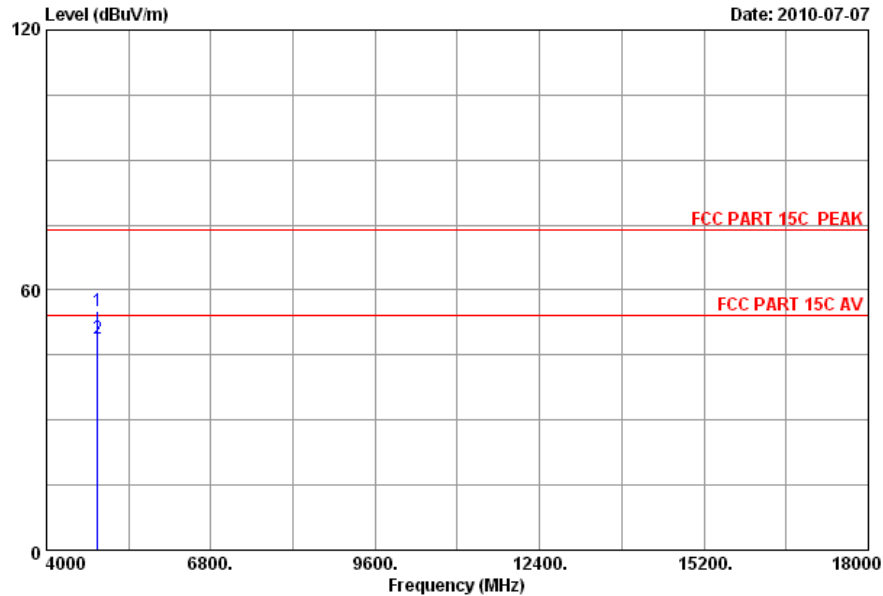
Site no.	: 3m Chamber	Data no.	: 35
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	Test mode	: Tx 11g CH6 2437MHz
M/N	: W1030		



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Data: 36 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07



Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g CH6 2437MHz
 M/N : W1030

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 4874.000	34.41	10.69	35.03	45.03	55.10	74.00	18.90	Peak
2 4874.000	34.41	10.69	35.03	38.68	48.75	54.00	5.25	Average

Remarks:

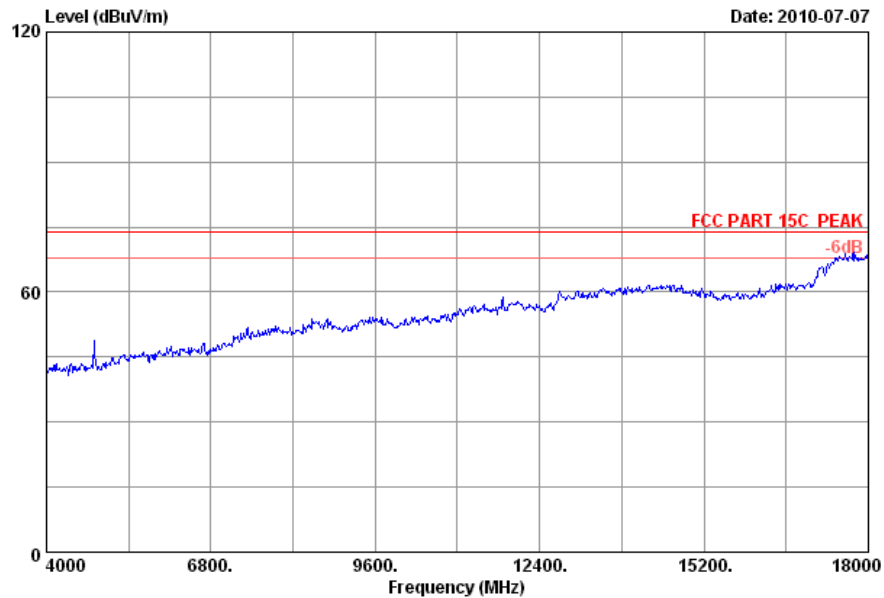
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 37 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07

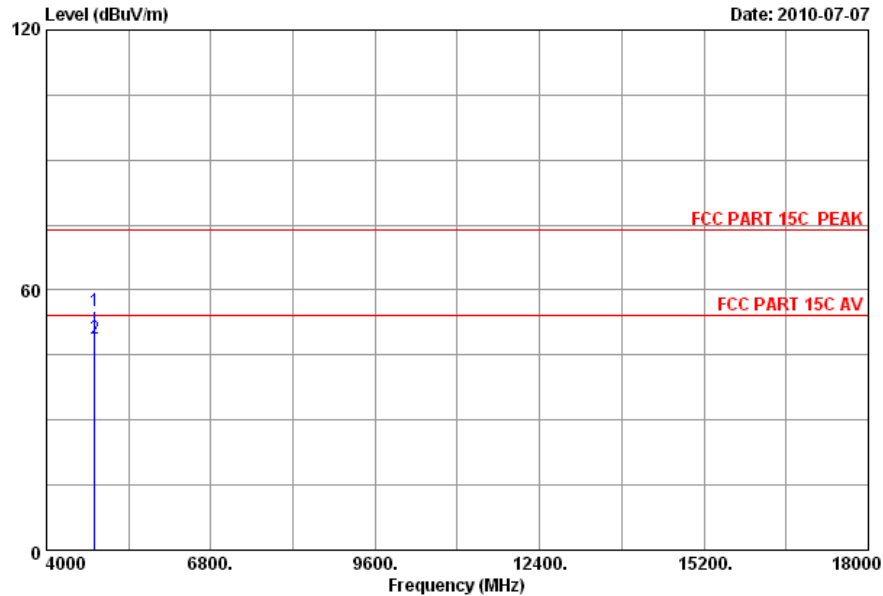


Site no.	: 3m Chamber	Data no.	: 37
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	M/N	: W1030
Test mode	: Tx 11g CH1 2412MHz		



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Data: 38 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : Digital Photo Frame with WIFI
 Power : 120V/60Hz
 Test mode : Tx 11g CH1 2412MHz
 M/N : W1030

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	10.64	35.08	45.28	55.16	74.00	18.84	Peak
2	4824.000	34.32	10.64	35.08	38.96	48.84	54.00	5.16	Average

Remarks:

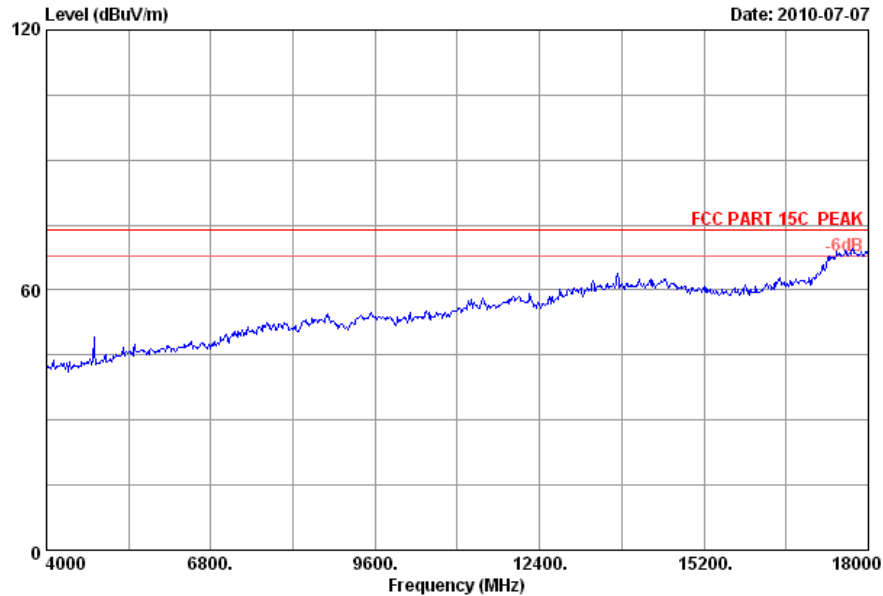
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 39 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)

Date: 2010-07-07

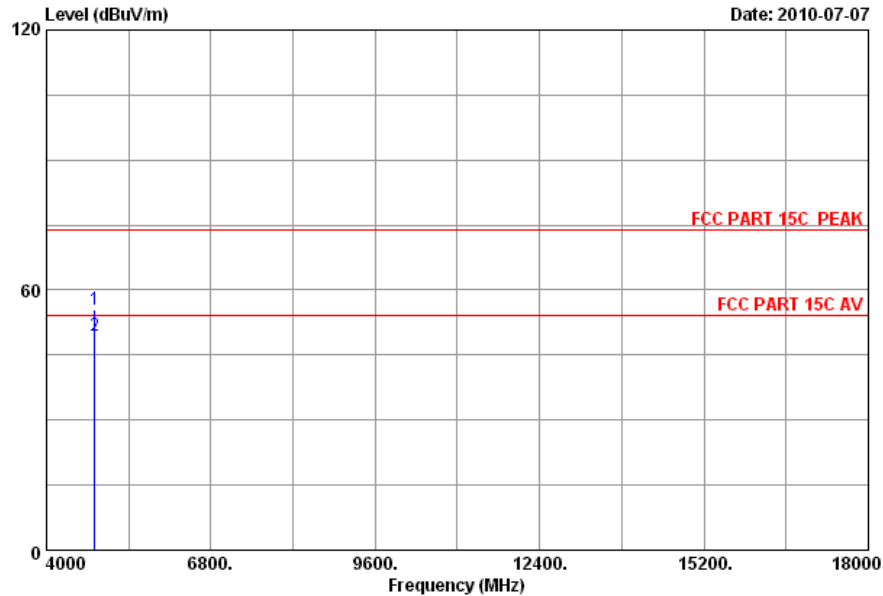


Site no.	: 3m Chamber	Data no.	: 39
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	M/N	: W1030
Test mode	: Tx 11g CH1 2412MHz		



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Data: 40 File: E:\2010 test data\TUV\2010-07-07.EM6 (120)



Site no.	: 3m Chamber	Data no.	: 40
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Paul Tian
Env. / Ins.	: 23°C/54%	EUT	: Digital Photo Frame with WIFI
Power	: 120V/60Hz	M/N	: W1030
Test mode	: Tx 11g CH1 2412MHz		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	10.64	35.08	45.68	55.56	74.00	18.44	Peak
2	4824.000	34.32	10.64	35.08	39.52	49.40	54.00	4.60	Average

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.