

FCC TEST REPORT

for

SANHO ELECTRONICS TECHNOLOGY CO., LTD

Wireless Camera Controller

Model Number: CameraMator

FCC ID: AXD602130108

Prepared for : SANHO ELECTRONICS TECHNOLOGY CO., LTD
Address : 1/F, BLOCK 1, #1177 LINGYUN ROAD, NINGBO, CHINA

Prepared by : Keyway Testing Technology Co., Ltd.
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Report No. : 13KWE01407F
Date of Test : Dec. 18~30, 2012
Date of Report : Dec. 30, 2012

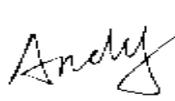
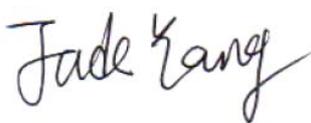


TABLE OF CONTENTS

Test Report Declaration	Page
1. GENERAL PRODUCT INFORMATION	4
1.1. Product Function.....	4
1.2. Description of Device (EUT)	4
1.3. Independent Operation Modes.....	4
2. TEST SITES	5
2.1. Test Facilities	5
2.2. List of Test and Measurement Instruments	6
3. TEST SET-UP AND OPERATION MODES	7
3.1. Principle of Configuration Selection.....	7
3.2. Block Diagram of Test Set-up.....	7
3.3. Test Operation Mode and Test Software.....	7
3.4. Special Accessories and Auxiliary Equipment.....	7
3.5. Countermeasures to Achieve EMC Compliance	7
4. EMISSION TEST RESULTS.....	8
4.1. Conducted Emission at the Mains Terminals Test.....	8
4.2. Radiated Emission Test.....	11
5. 6 OCCUPY BANDWIDTH	52
5.1. Limits	52
6. BAND EDGE COMPLIANCE TEST	55
6.1. Limits	55
6.2. Test setup.....	55
7. OUTPUT POWER TEST	60
7.1. Limits	60
7.2. Test setup.....	60
7.3. Test result.....	60
8. POWER SPECTRAL DENSITY TEST	61
8.1. Limits	61
8.2. Test setup.....	61
8.3. Test result.....	61
9. ANTENNA REQUIREMENTS.....	68
9.1. Limits	68
9.2. Result	68
10. PHOTOGRAPHS OF TEST SET-UP	69
10.1. Set-up for Radiated Emission Test.....	69
10.2. Set-up for Radiated Emission Test.....	70
11. PHOTOGRAPHS OF THE EUT	71



Keyway Testing Technology Co., Ltd.

Applicant:	SANHO ELECTRONICS TECHNOLOGY CO., LTD		
Address:	1/F, Block 1, #1177 Lingyun Road, Ningbo, China		
Manufacturer:	SANHO ELECTRONICS TECHNOLOGY CO., LTD		
Address:	1/F, Block 1, #1177 Lingyun Road, Ningbo, China		
E.U.T:	Wireless Camera Controller		
Model Number:	CameraMator		
Trade Name:	-----	Serial No.:	-----
Date of Receipt:	Dec. 17, 2012	Date of Test:	Dec. 18~30, 2012
Test Specification:	FCC Part 15, Subpart C: Oct. 1, 2010 ANSI C63.4:2003 KDB558074		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
		Issue Date: Dec.30, 2012	
Tested by:	Reviewed by:	Approved by:	
 <hr/>	 <hr/>	 <hr/>	
Andy Gao / Engineer	Jade Yang/ Supervisor	Chris Du / Manager	
Other Aspects:	None.		
<i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i>			
<i>This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Keyway Testing Technology Co., Ltd.</i>			

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

Product Name:	Wireless Camera Controller
Model No.:	CameraMator
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11n(H20) ,7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Integral
Antenna gain:	2dBi (declare by Applicant)
Power supply:	DC 5V from USB Port

1.3. Independent Operation Modes

The basic operation modes are:

1.3.1. EUT work continues TX mode and frequency as below:

	Channel	Frequency
802.11b	Low	2412MHz
	Middle	2437MHz
	High	2462MHz
802.11g	Low	2412MHz
	Middle	2437MHz
	High	2462MHz
802.11n(HT20)	Low	2412MHz
	Middle	2437MHz
	High	2462MHz
802.11 n(HT40)	Low	2422MHz
	Middle	2437MHz
	High	2452MHz

Remark: According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup" 1MHz for 802.11b,54MHz for 802.11g,6.5Mbps for 802.11n(H20), 13Mbps for 802.11n(H40).

2. TEST SITES

2.1. Test Facilities

Lab Qualifications : 944 Shielded Room built by ETS-Lindgren, USA
Date of completion: March 28, 2011

966 Chamber built by ETS-Lindgren, USA
Date of completion: March 28, 2011

Certificated by TUV Rheinland, Germany.
Registration No.: UA 50207153
Date of registration: July 13, 2011

Certificated by UL, USA
Registration No.: 100567-237
Date of registration: September 1, 2011

Certificated by Intertek
Registration No.: 2011-RTL-L1-31
Date of registration: October 11, 2011

Certificated by Industry Canada
Registration No.: 9868A
Date of registration: December 8, 2011

Certificated by FCC, USA
Registration No.: 370994
Date of registration: February 21, 2012

Certificated by CNAS China
Registration No.: CNAS L5783
Date of registration: August 8, 2012

Name of Firm : Keyway Testing Technology Co., Ltd.

Site Location : Baishun Industrial Zone, Zhangmutou Town,
Dongguan, Guangdong, China

2.2. List of Test and Measurement Instruments

2.2.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Jul. 7,12	Jul. 7,13
Artificial Mains Network	Rohde&Schwarz	ENV216	101315	Jul. 2,12	Jul. 2,13
Artificial Mains Network (AUX)	Rohde&Schwarz	ENV216	101314	Jul. 2,12	Jul. 2,13
RF Cable	FUJIKURA	3D-2W	944 Cable	Jul. 2,12	Jul. 2,13

2.2.2. For radiated emission test (Below 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Jul. 7,12	Jul. 7,13
Bilog Antenna	ETS-LINDGREEN	3142D	135452	Jun. 28,12	Jun. 28,13
Spectrum Analyzer	Agilent	E4411B	MY4511304	Jul. 11,12	Jul. 11,13
3m Semi-anechoic Chamber	ETS-LINDGREEN	966	KW01	Aug.29,12	Aug.29,13
Signal Amplifier	SONOMA	310	187016	Jul. 7,12	Jul. 7,13
Signal Amplifier	Agilent	8449B	3008A00251	Jul. 7,12	Jul. 7,13
RF Cable	IMRO	IMRO-400	966 Cable 1#	Jul. 7,11	Jul. 7,13
MULTI-DEVICE Controller	ETS-LINDGREEN	2090	126913	N/A	N/A

2.2.3. For above 1GHz radiated emission, output power,band edge, 6dB bandwidth test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	DAZE	ZN30701	11003	Jul. 11,12	Jul. 11,13
Horn Antenna	SCHWARZBECK	BBHA9170	9170-068	Jul. 11,12	Jul. 11,13
Spectrum Analyzer	Agilent	8593E	3911A04271	Jul. 7,12	Jul. 7,13
Spectrum Analyzer	Agilent	E4408B	MY44211125	Jul. 7,12	Jul. 7,13
3m Semi-anechoic Chamber	ETS-LINDGREN	966	KW01	Jul. 7,12	Jul. 7,13
Signal Amplifier	DAZE	ZN3380C	11001	Jul. 7,12	Jul. 7,13
Signal Amplifier	Agilent	8449B	3008A00251	Jul. 7,12	Jul. 7,13
High Pass filter	Micro	HPM50111	324216	Jul. 7,12	Jul. 7,13
Power Meter	R&S	NRVS	101824	Jul. 7,12	Jul. 7,13
Peak and Avg Power Sensor	Rohde&Schwarz	URV5-Z7	100655	Jul. 7,12	Jul. 7,13
RF Cable	IMRO	IMRO-400	966 Cable 1#	Jul. 7,12	Jul. 7,13
MULTI-DEVICE Controller	ETS-LINDGREN	2090	126913	N/A	N/A
Antenna Holder	ETS-LINDGREN	2070B	00109601	N/A	N/A

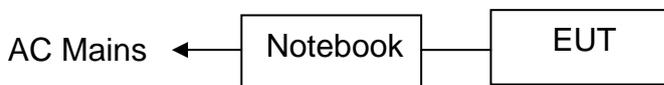
3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators



(EUT: Wireless Camera Controller)

Note: the notebook only use to control the EUT's transmit and charging.

3.3. Test Operation Mode and Test Software

None.

3.4. Special Accessories and Auxiliary Equipment

Notebook:

Manufacturer:	LENOVO
Model Number:	Lenovo G475
Serial Number:	CB14477457
Adapter:	
Manufacturer:	Lenovo
Model Number:	LN-A0403A3C
Serial Number:	36001672
Input: 100-240V/2.5A,50-60Hz; Output: 20V/2A	
AC Line: Unshielded, Detachable 1.0m	
DC Line: Unshielded, Undetachable 1.8m	

3.5. Countermeasures to Achieve EMC Compliance

None.

4. EMISSION TEST RESULTS

4.1. Conducted Emission at the Mains Terminals Test

4.1.1. Limit 15.209 limits

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

4.1.2. Test Setup

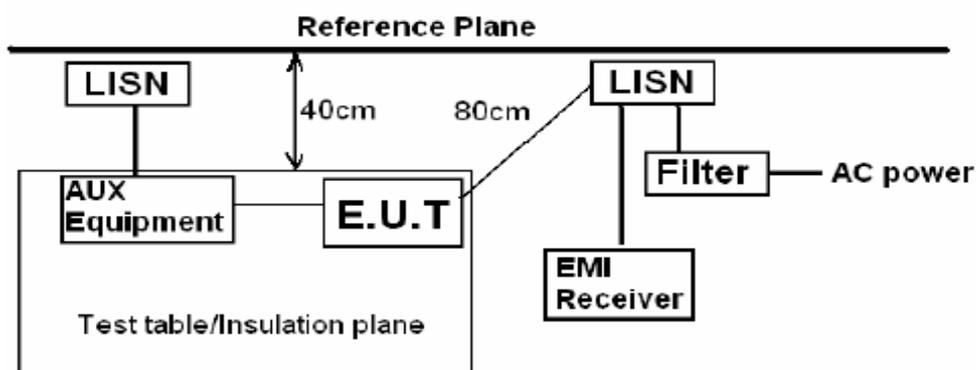
The EUT was put on a wooden table which was 0.8 m high above the ground and connected to the AC mains through the Artificial Mains Network (AMN). Where the mains cable supplied by the manufacture was longer than 0.8 m, the excess was folded back and forth parallel to the cable at the centre so as to form a bundle no longer than 0.4 m.

The EUT was kept 0.4 m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during the conducted emission test.

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

Pretest for all mode, The test data of the worst case condition(s) was reported on the following page.



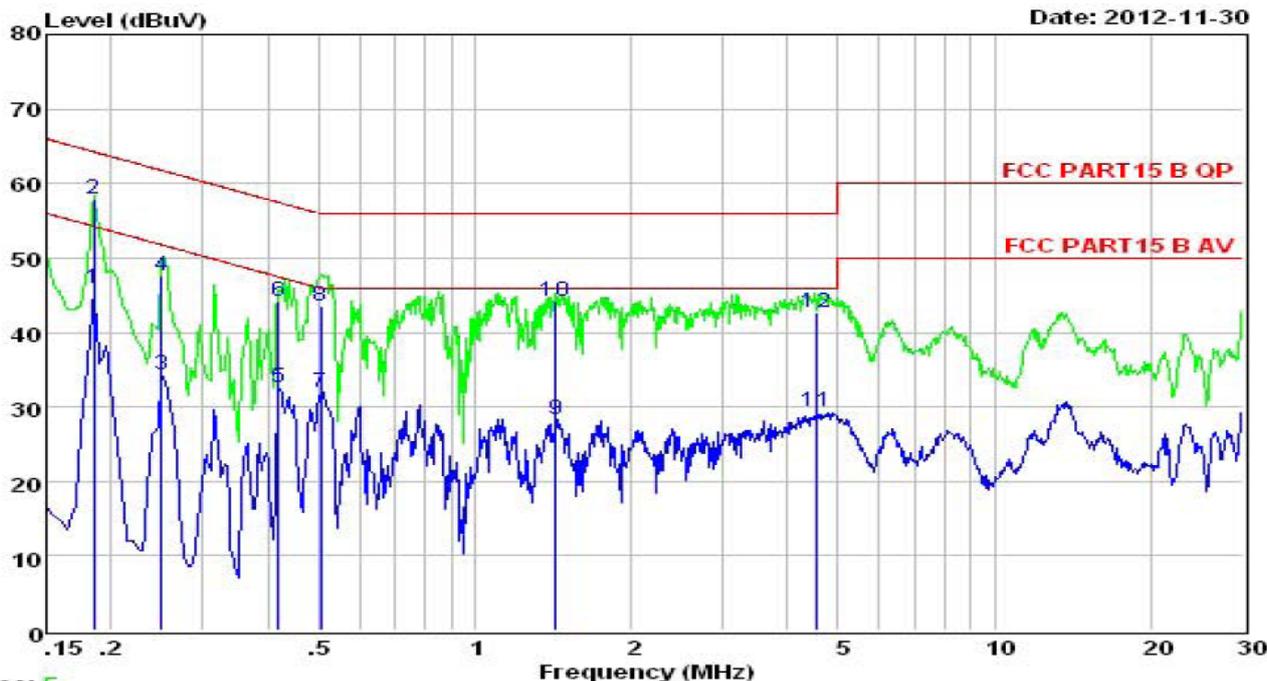
Remark:
 E.U.T: Equipment Under Test
 LISN: Line Impedance Stabilization Network
 Test table height=0.8m

4.1.3. Test Mode

Set EUT in TX mode.

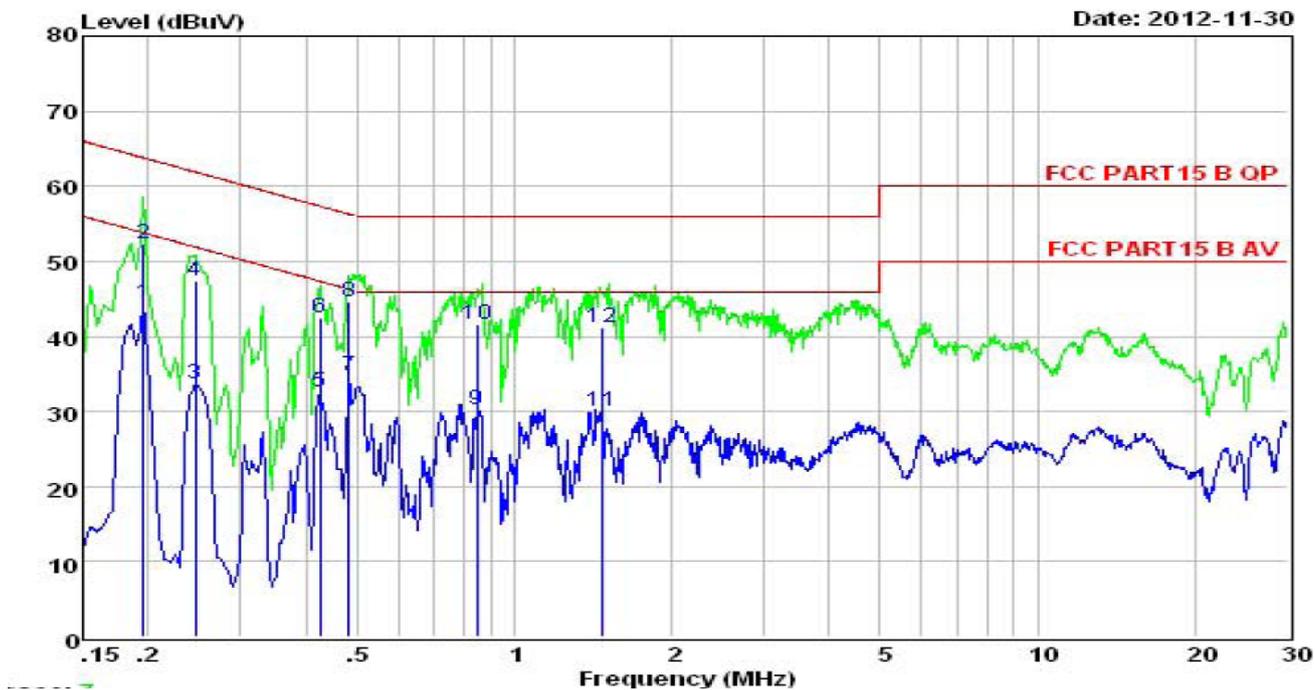
Test Data
Test Line: Line

Date: 2012-11-30



	Freq	Level	Limit	Over	Remark
	MHz	dBuV	dBuV	dB	
1	0.19	45.90	54.26	-8.36	Average
2	0.19	57.90	64.26	-6.36	QP
3	0.25	34.24	51.78	-17.54	Average
4	0.25	47.69	61.78	-14.09	QP
5	0.42	32.54	47.46	-14.92	Average
6	0.42	44.21	57.46	-13.25	QP
7	0.50	32.06	46.00	-13.94	Average
8	0.50	43.58	56.00	-12.42	QP
9	1.43	28.34	46.00	-17.66	Average
10	1.43	44.18	56.00	-11.82	QP
11	4.53	29.29	46.00	-16.71	Average
12	4.53	42.72	56.00	-13.28	QP

Test Line: Neutral



	Freq	Level	Limit	Over	Remark
	MHz	dBuV	dBuV	dB	
1	0.20	44.40	53.80	-9.40	Average
2	0.20	52.31	63.80	-11.49	QP
3	0.25	33.70	51.91	-18.21	Average
4	0.25	47.34	61.91	-14.57	QP
5	0.43	32.68	47.33	-14.65	Average
6	0.43	42.37	57.33	-14.96	QP
7	0.48	34.71	46.27	-11.56	Average
8	0.48	44.65	56.27	-11.62	QP
9	0.85	30.34	46.00	-15.66	Average
10	0.85	41.54	56.00	-14.46	QP
11	1.47	30.06	46.00	-15.94	Average
12	1.47	41.26	56.00	-14.74	QP

4.2. Radiated Emission Test

4.2.1. Limit 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

4.2.2. Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.2.3. Test setup

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz.

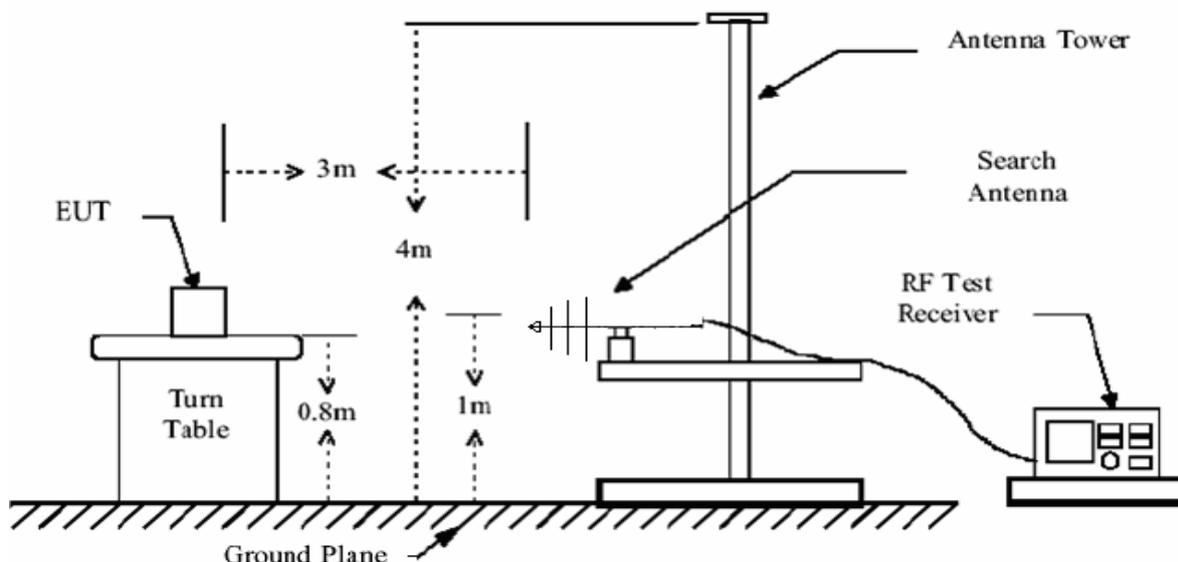
The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

Notes: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.

2. Measurement Uncertainty: ±3.2 dB at a level of confidence of 95%.

3. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

4. For emissions below 1GHz, pretest for all mode, The test data of the worst case condition(s) was reported on the following pages.



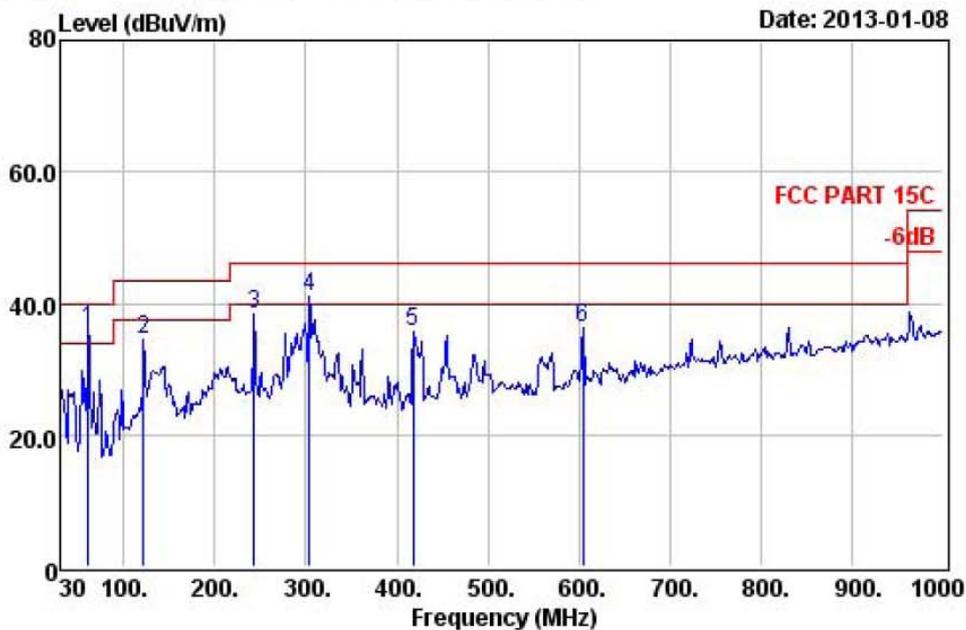
Test Data



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Data: 59 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART 15C 3m 3142D VERTICAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:25.3'C Humi:58% Press:101.27kPa
 Test Mode: TX Mode

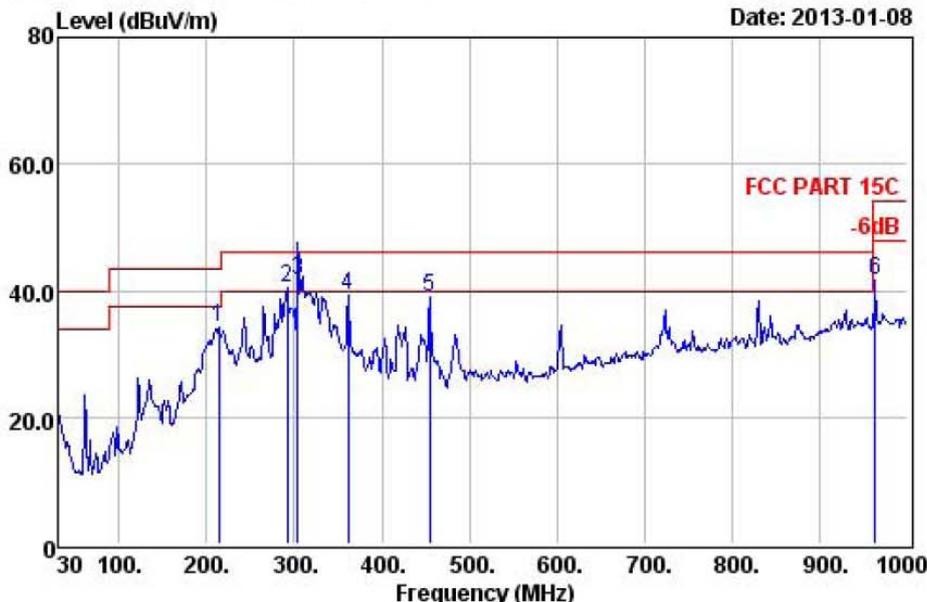
	Preamp	Read	CableAntenna	Limit	Over				
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1 !	61.04	31.34	59.24	0.75	7.32	35.97	40.00	-4.03	QP
2	122.15	31.23	56.07	1.12	8.46	34.42	43.50	-9.08	QP
3	243.40	30.95	55.04	1.61	12.72	38.42	46.00	-7.58	QP
4 !	303.54	30.92	56.10	1.94	13.90	41.02	46.00	-4.98	QP
5	418.00	30.63	47.06	2.48	16.88	35.79	46.00	-10.21	QP
6	604.24	30.60	42.73	3.29	20.72	36.14	46.00	-9.86	QP





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Data: 60 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART 15C 3m 3142D HORIZONTAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:25.3'C Humi:58% Press:101.27kPa
 Test Mode: TX Mode

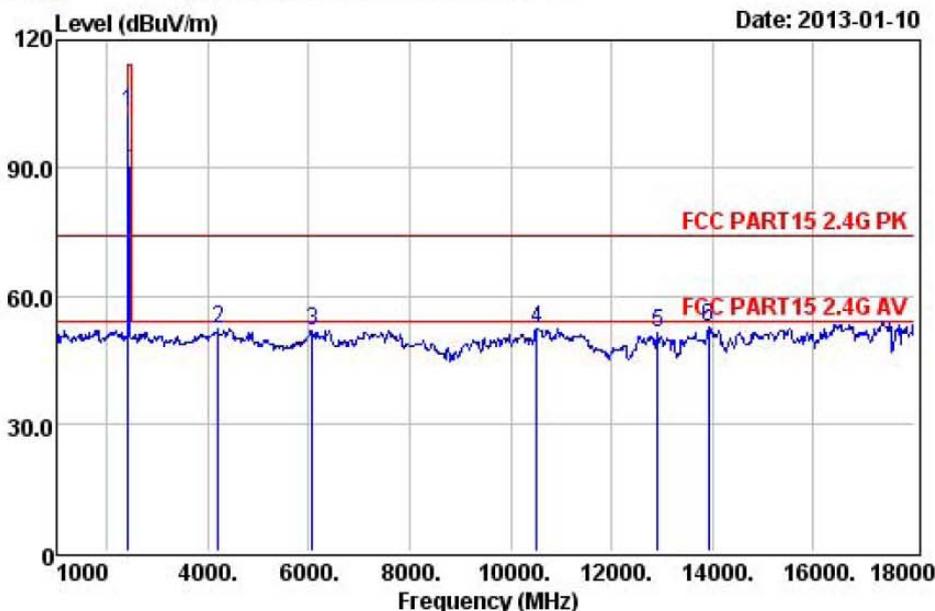
	Preamp	Read	Cable&Antenna		Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	214.30	31.04	51.88	1.53	11.69	34.06	43.50	-9.44	QP
2 !	291.90	30.93	55.82	1.87	13.54	40.30	46.00	-5.70	QP
3 !	303.54	30.92	56.80	1.94	13.90	41.72	46.00	-4.28	QP
4	361.74	30.61	51.51	2.18	16.12	39.20	46.00	-6.80	QP
5	454.86	30.61	49.35	2.62	17.74	39.10	46.00	-6.90	QP
6	963.14	29.50	41.56	4.92	24.71	41.69	54.00	-12.31	QP





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Data: 35 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:54% Press:101.29kPa
 Test Mode: 802.11b 2412MHz

	Preamp	Read	Cable	Antenna	Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2412.00	26.32	93.46	7.39	28.73	103.26	114.00	-10.74	Peak
2	4196.00	27.12	36.71	10.76	31.78	52.13	74.00	-21.87	Peak
3	6066.00	27.71	27.67	16.60	35.29	51.85	74.00	-22.15	Peak
4	10520.00	28.85	24.83	17.07	39.21	52.26	74.00	-21.74	Peak
5	12917.00	29.18	21.75	18.14	40.50	51.21	74.00	-22.79	Peak
6	13920.00	29.38	19.23	19.27	43.42	52.54	74.00	-21.46	Peak

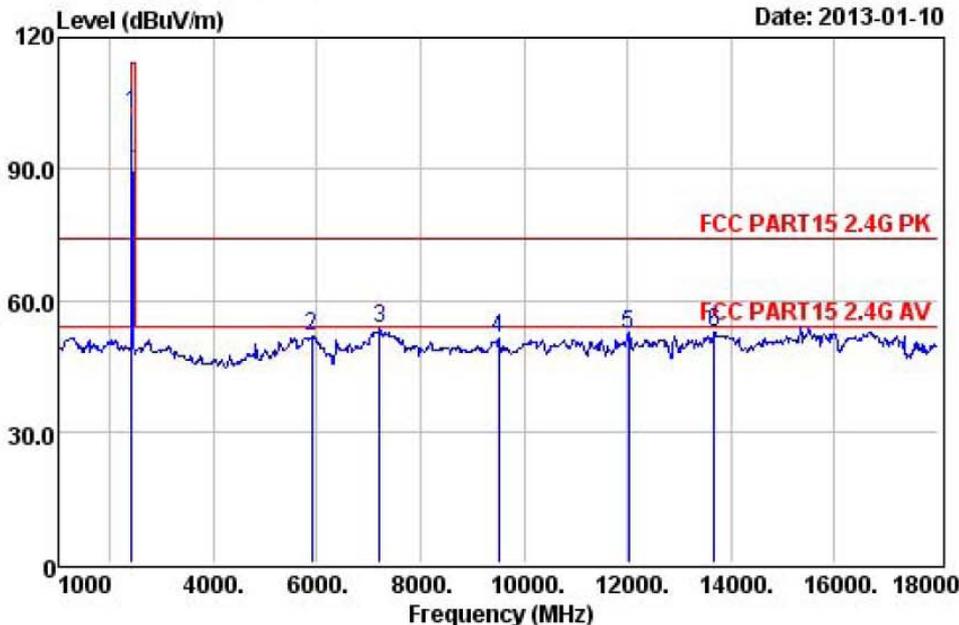




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Data: 36 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: 802.11b 2412MHz

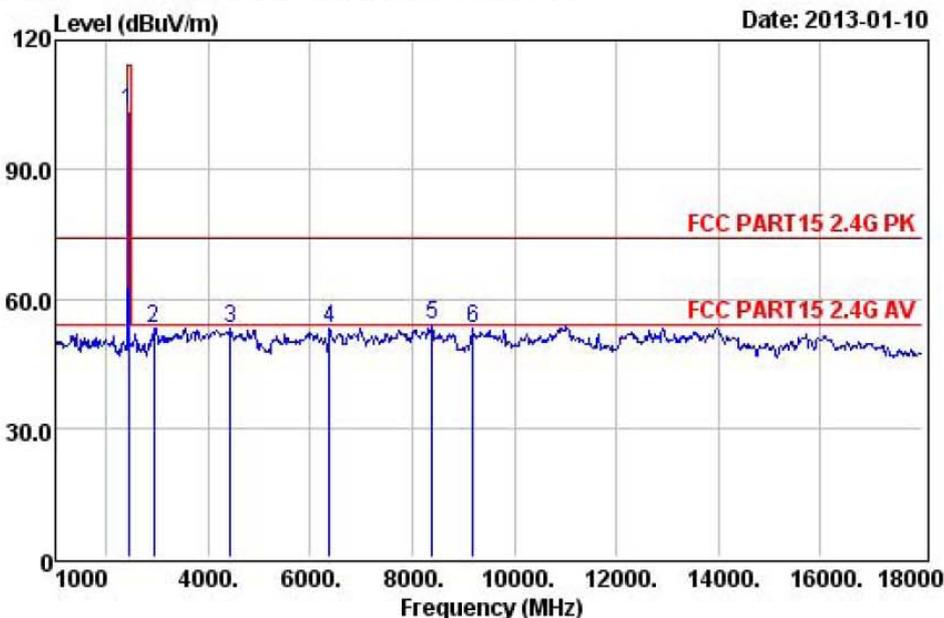
		Preamp	Read	CableAntenna		Limit	Over	
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	2412.00	26.32	92.81	7.39	28.73	102.61	114.00	-11.39 Peak
2	5896.00	27.69	28.57	16.04	34.97	51.89	74.00	-22.11 Peak
3	7205.00	27.94	27.46	16.61	37.28	53.41	74.00	-20.59 Peak
4	9517.00	28.61	24.93	16.92	38.01	51.25	74.00	-22.75 Peak
5	12016.00	29.00	24.60	17.38	39.40	52.38	74.00	-21.62 Peak
6	13665.00	29.33	19.90	18.98	43.17	52.72	74.00	-21.28 Peak





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Data: 37 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: 802.11b 2437MHz

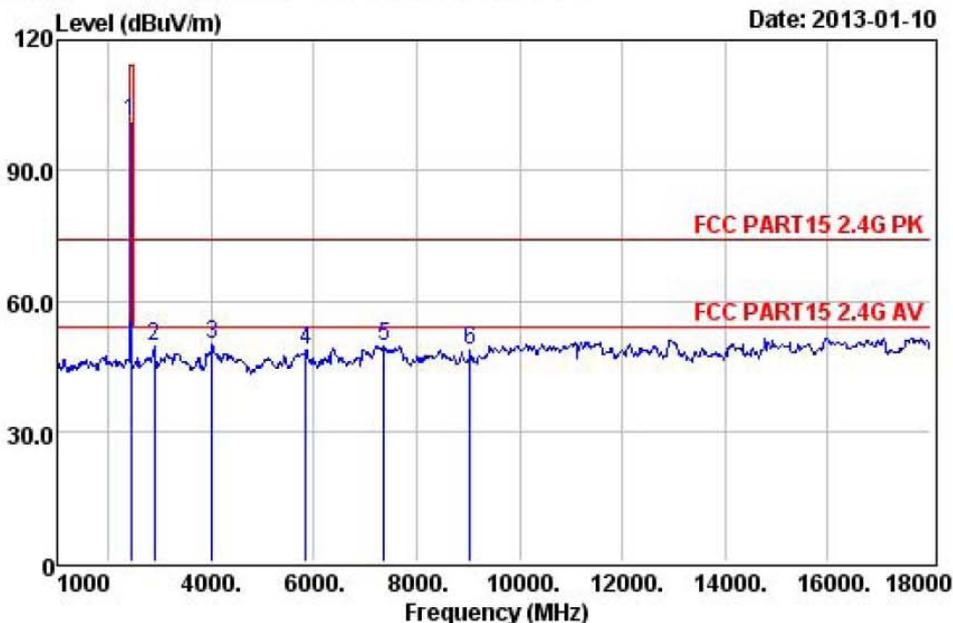
	Preamp	Read	Cable	Antenna	Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2437.00	26.33	93.45	7.43	28.76	103.31	114.00	-10.69	Peak
2	2921.00	26.47	40.31	9.56	29.80	53.20	74.00	-20.80	Peak
3	4434.00	27.26	37.11	11.16	32.11	53.12	74.00	-20.88	Peak
4	6372.00	27.77	28.69	16.60	35.71	53.23	74.00	-20.77	Peak
5	8395.00	28.22	28.54	16.75	36.72	53.79	74.00	-20.21	Peak
6	9177.00	28.47	26.94	16.89	37.61	52.97	74.00	-21.03	Peak





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Data: 38 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: 802.11b 2437MHz

	Preamp	Read	CableAntenna	Limit	Over				
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2437.00	26.33	91.36	7.43	28.76	101.22	114.00	-12.78	Peak
2	2887.00	26.46	37.09	9.38	29.72	49.73	74.00	-24.27	Peak
3	4009.00	27.01	34.76	10.50	31.52	49.77	74.00	-24.23	Peak
4	5845.00	27.68	25.88	15.75	34.86	48.81	74.00	-25.19	Peak
5	7358.00	27.97	23.57	16.62	37.34	49.56	74.00	-24.44	Peak
6	9041.00	28.41	22.81	16.88	37.44	48.72	74.00	-25.28	Peak



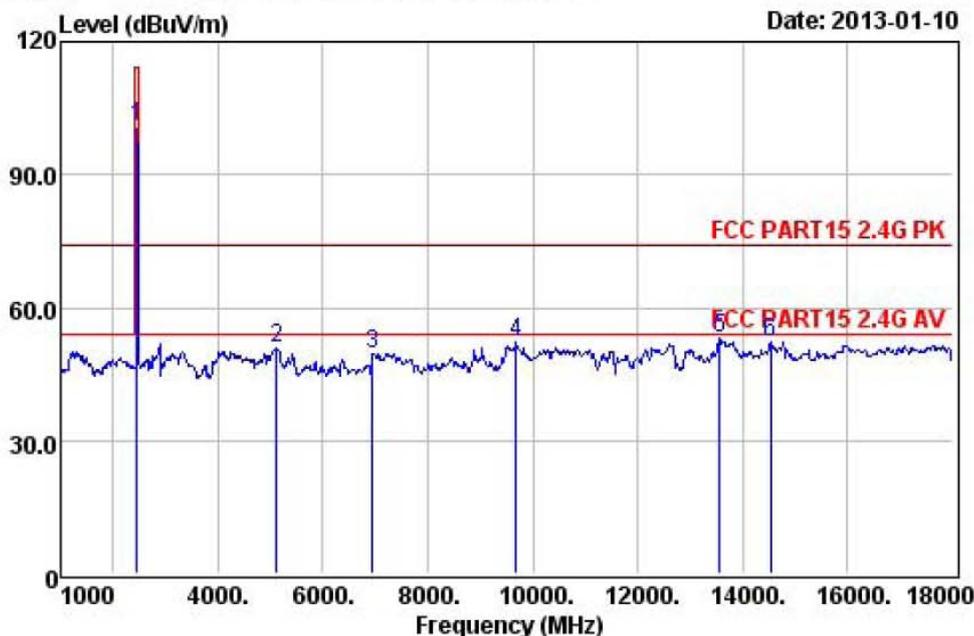


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Data: 39 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:56% Press:101.52kPa
Test Mode: 802.11b 2462MHz

	Preamp	Read	CableAntenna		Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2462.00	26.34	90.72	7.52	28.77	100.67	114.00	-13.33	Peak
2	5114.00	27.61	32.21	12.72	33.56	50.88	74.00	-23.12	Peak
3	6950.00	27.89	23.94	16.60	37.07	49.72	74.00	-24.28	Peak
4	9687.00	28.68	25.97	16.94	38.15	52.38	74.00	-21.62	Peak
5	13563.00	29.31	20.47	18.85	43.07	53.08	74.00	-20.92	Peak
6	14532.00	29.48	21.53	19.70	40.46	52.21	74.00	-21.79	Peak

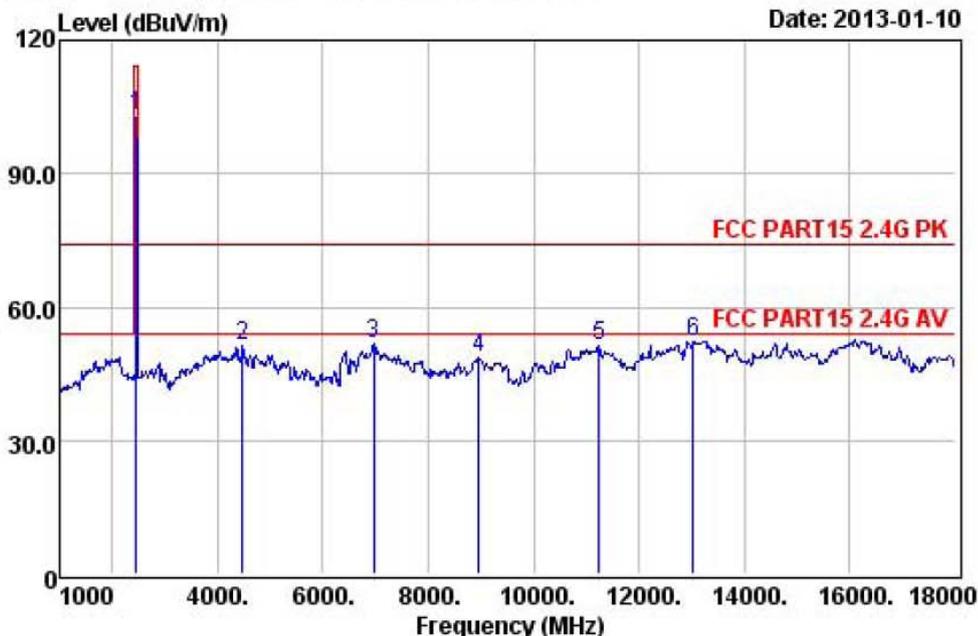




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Data: 40 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: 802.11b 2462MHz

	Preamp	Read	CableAntenna		Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2462.00	26.34	93.17	7.52	28.77	103.12	114.00	-10.88	Peak
2	4468.00	27.28	35.29	11.24	32.15	51.40	74.00	-22.60	Peak
3	6967.00	27.89	25.77	16.60	37.11	51.59	74.00	-22.41	Peak
4	8956.00	28.38	22.97	16.87	37.34	48.80	74.00	-25.20	Peak
5	11234.00	28.92	23.15	17.21	39.69	51.13	74.00	-22.87	Peak
6	13019.00	29.20	22.55	18.24	40.78	52.37	74.00	-21.63	Peak

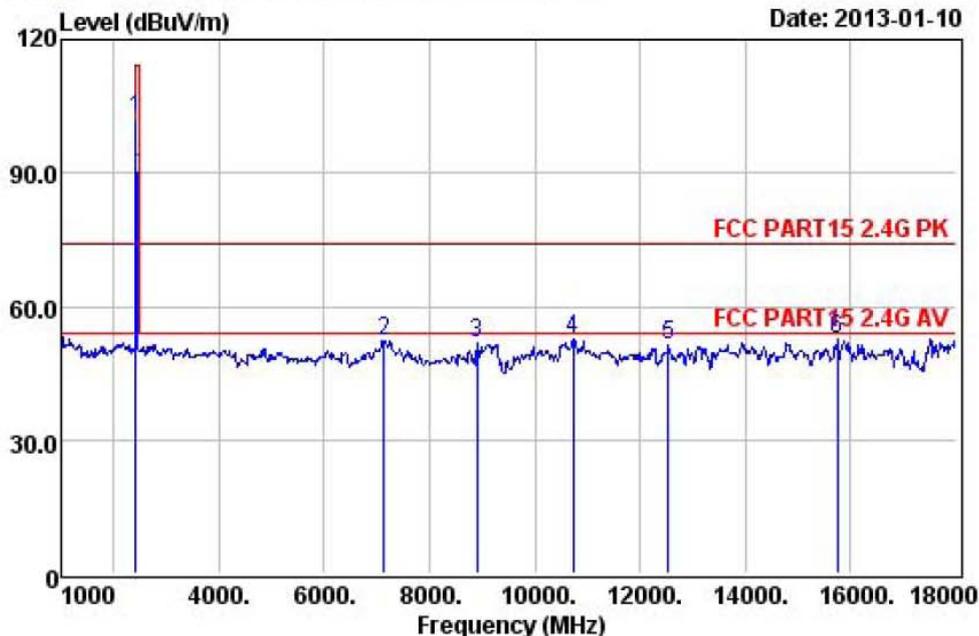




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Data: 41 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:54% Press:101.29kPa
 Test Mode: 802.11g 2412MHz

	Preamp	Read	CableAntenna	Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	2412.00	26.32	92.17	7.39	28.73	101.97	114.00	-12.03
2	7137.00	27.93	26.26	16.60	37.26	52.19	74.00	-21.81
3	8905.00	28.37	25.91	16.86	37.28	51.68	74.00	-22.32
4	10724.00	28.87	25.00	17.11	39.33	52.57	74.00	-21.43
5	12526.00	29.11	23.00	17.82	39.58	51.29	74.00	-22.71
6	15739.00	29.66	22.32	20.47	39.32	52.45	74.00	-21.55

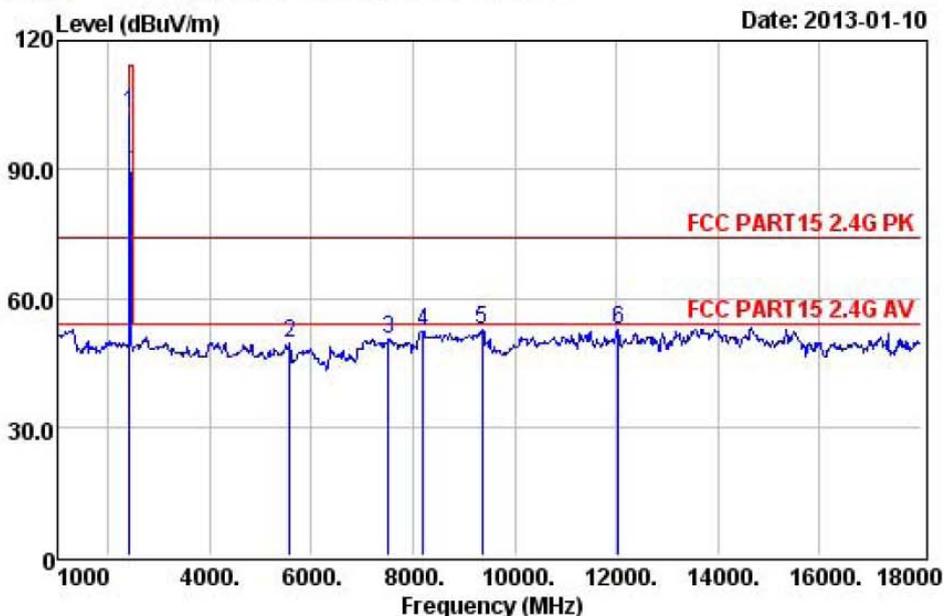




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Data: 42 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:56% Press:101.52kPa
Test Mode: 802.11g 2412MHz

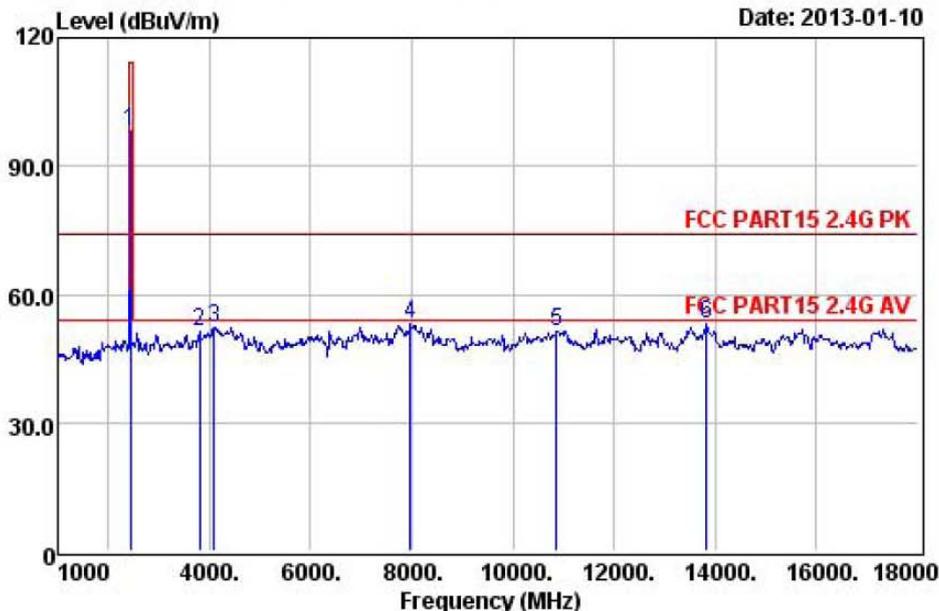
		Preamp	Read	Cable&Antenna		Limit	Over		
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2412.00	26.32	93.08	7.39	28.73	102.88	114.00	-11.12	Peak
2	5573.00	27.66	28.50	14.25	34.25	49.34	74.00	-24.66	Peak
3	7511.00	28.00	24.49	16.63	37.37	50.49	74.00	-23.51	Peak
4	8191.00	28.16	27.11	16.70	36.55	52.20	74.00	-21.80	Peak
5	9364.00	28.54	26.54	16.91	37.83	52.74	74.00	-21.26	Peak
6	12033.00	29.01	24.71	17.40	39.41	52.51	74.00	-21.49	Peak





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Data: 43 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: 802.11g 2437MHz

	Preamp	Read	Cable	Antenna	Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2437.00	26.33	88.35	7.43	28.76	98.21	114.00	-15.79	Peak
2	3805.00	26.91	36.75	10.26	31.12	51.22	74.00	-22.78	Peak
3	4094.00	27.06	37.14	10.61	31.64	52.33	74.00	-21.67	Peak
4	7970.00	28.09	27.90	16.65	36.47	52.93	74.00	-21.07	Peak
5	10860.00	28.89	23.76	17.14	39.42	51.43	74.00	-22.57	Peak
6	13818.00	29.36	19.77	19.14	43.32	52.87	74.00	-21.13	Peak



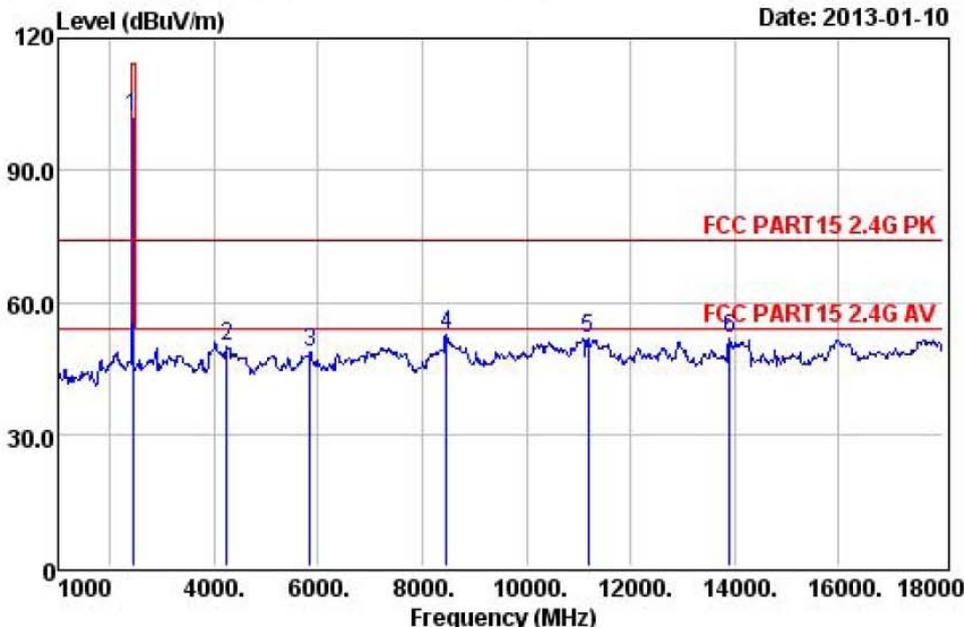


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Data: 44 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:56% Press:101.52kPa
Test Mode: 802.11g 2437MHz

		Preamp	Read	CableAntenna		Limit	Over		
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2437.00	26.33	92.08	7.43	28.76	101.94	114.00	-12.06	Peak
2	4247.00	27.15	34.24	10.85	31.85	49.79	74.00	-24.21	Peak
3	5845.00	27.68	25.88	15.75	34.86	48.81	74.00	-25.19	Peak
4	8463.00	28.24	27.34	16.76	36.77	52.63	74.00	-21.37	Peak
5	11183.00	28.92	23.65	17.20	39.65	51.58	74.00	-22.42	Peak
6	13903.00	29.38	18.33	19.24	43.40	51.59	74.00	-22.41	Peak

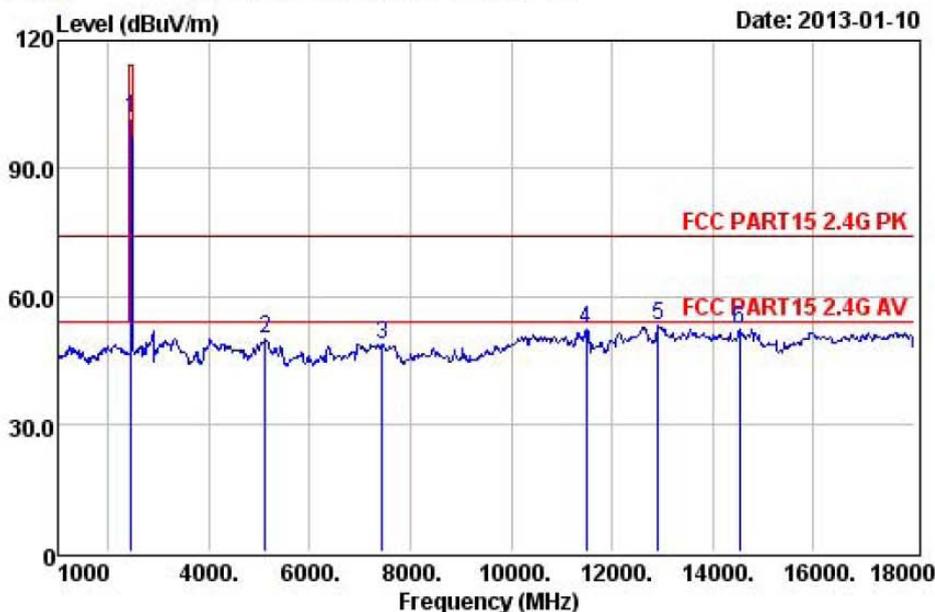




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Data: 45 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:56% Press:101.52kPa
Test Mode: 802.11g 2462MHz

	Preamp	Read	CableAntenna	Limit	Over				
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2462.00	26.34	91.62	7.52	28.77	101.57	114.00	-12.43	Peak
2	5114.00	27.61	31.21	12.72	33.56	49.88	74.00	-24.12	Peak
3	7443.00	27.99	22.61	16.62	37.38	48.62	74.00	-25.38	Peak
4	11489.00	28.95	23.78	17.26	39.89	51.98	74.00	-22.02	Peak
5	12917.00	29.18	23.56	18.14	40.50	53.02	74.00	-20.98	Peak
6	14532.00	29.48	21.53	19.70	40.46	52.21	74.00	-21.79	Peak



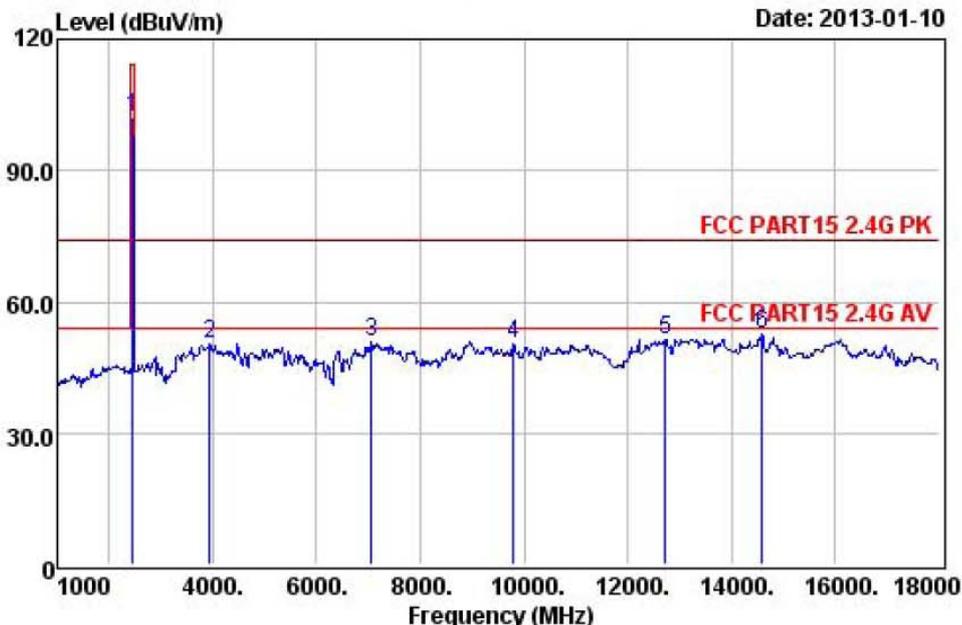


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Data: 46 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:56% Press:101.52kPa
Test Mode: 802.11g 2462MHz

		Preamp	Read	CableAntenna		Limit	Over		
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2462.00	26.34	92.20	7.52	28.77	102.15	114.00	-11.85	Peak
2	3941.00	26.97	35.35	10.41	31.40	50.19	74.00	-23.81	Peak
3	7052.00	27.91	24.91	16.60	37.22	50.82	74.00	-23.18	Peak
4	9789.00	28.72	23.94	16.95	38.23	50.40	74.00	-23.60	Peak
5	12730.00	29.15	22.60	17.99	40.06	51.50	74.00	-22.50	Peak
6	14583.00	29.49	22.10	19.73	40.25	52.59	74.00	-21.41	Peak





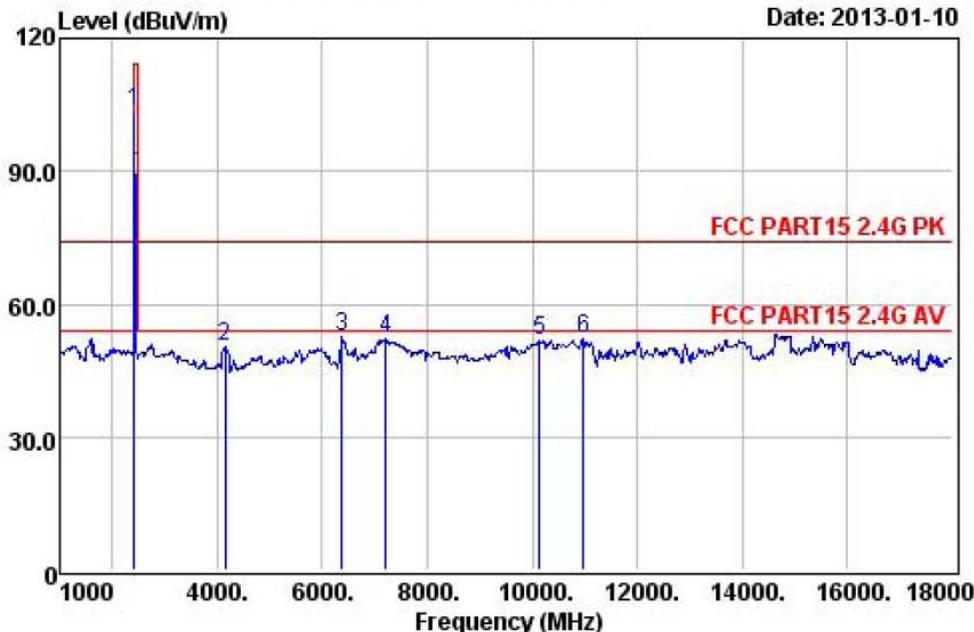
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Data: 47

File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:56% Press:101.52kPa
Test Mode: 802.11n(HT20) 2412MHz

	Preamp	Read	CableAntenna	Limit	Over				
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz		dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2412.00	26.32	93.51	7.39	28.73	103.31	114.00	-10.69	Peak
2	4145.00	27.09	35.20	10.67	31.71	50.49	74.00	-23.51	Peak
3	6372.00	27.77	28.21	16.60	35.71	52.75	74.00	-21.25	Peak
4	7205.00	27.94	26.46	16.61	37.28	52.41	74.00	-21.59	Peak
5	10129.00	28.81	24.90	16.99	38.61	51.69	74.00	-22.31	Peak
6	10979.00	28.90	24.26	17.16	39.49	52.01	74.00	-21.99	Peak

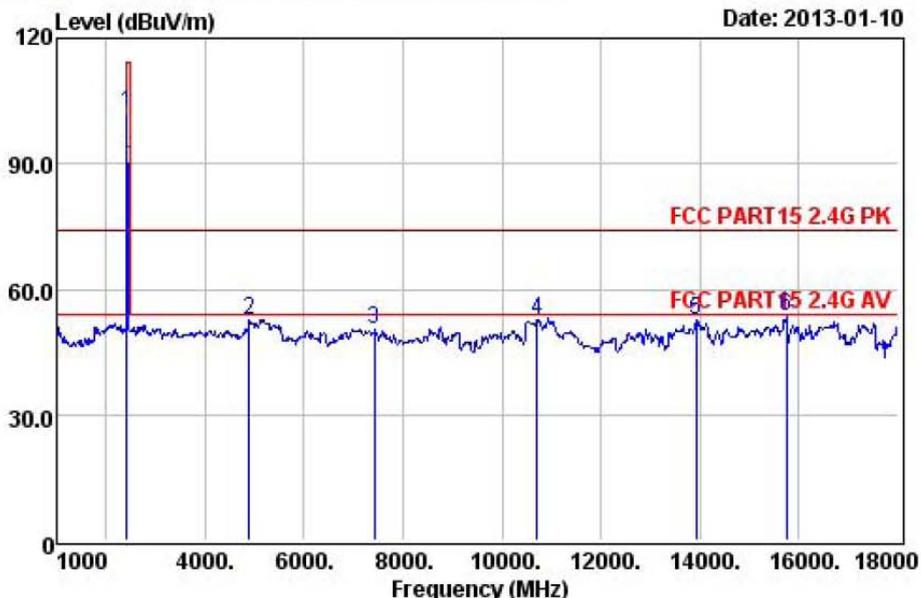




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Data: 48 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:54% Press:101.29kPa
Test Mode: 802.11n(HT20) 2412MHz

	Preamp	Read	Cable	Antenna		Limit	Over	
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	2412.00	26.32	92.43	7.39	28.73	102.23	114.00	-11.77
2	4893.00	27.54	34.94	12.19	33.15	52.74	74.00	-21.26
3	7426.00	27.98	24.36	16.62	37.37	50.37	74.00	-23.63
4	10707.00	28.87	25.26	17.11	39.32	52.82	74.00	-21.18
5	13920.00	29.38	19.23	19.27	43.42	52.54	74.00	-21.46
6	15739.00	29.66	23.32	20.47	39.32	53.45	74.00	-20.55





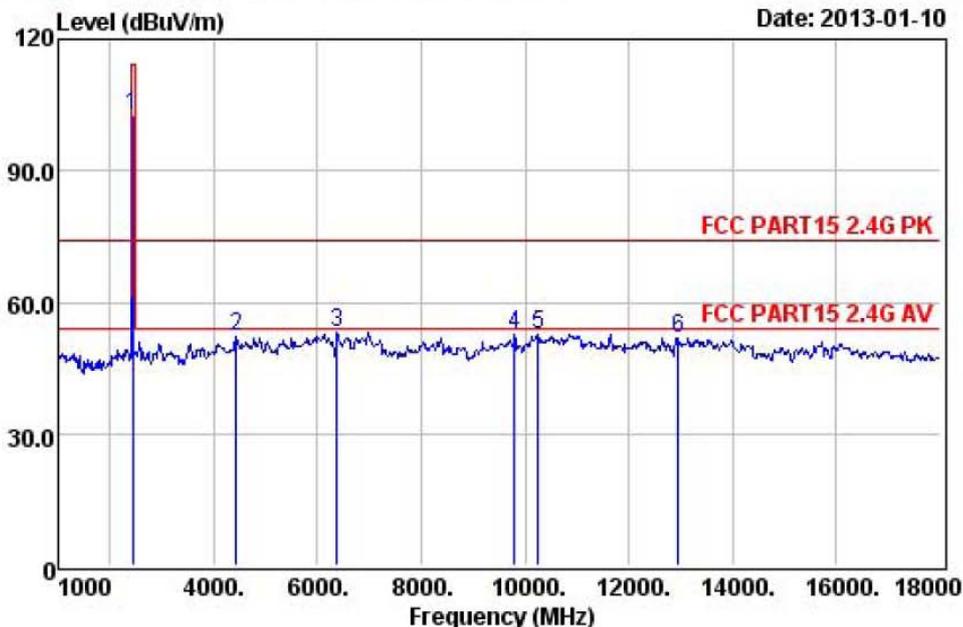
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Data: 49

File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:56% Press:101.52kPa
Test Mode: 802.11n(HT20) 2437MHz

	Preamp	Read	Cable	Antenna		Limit	Over		
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2437.00	26.33	92.71	7.43	28.76	102.57	114.00	-11.43	Peak
2	4434.00	27.26	36.11	11.16	32.11	52.12	74.00	-21.88	Peak
3	6372.00	27.77	28.69	16.60	35.71	53.23	74.00	-20.77	Peak
4	9789.00	28.72	26.10	16.95	38.23	52.56	74.00	-21.44	Peak
5	10248.00	28.83	25.73	17.02	38.80	52.72	74.00	-21.28	Peak
6	12951.00	29.19	22.14	18.17	40.58	51.70	74.00	-22.30	Peak



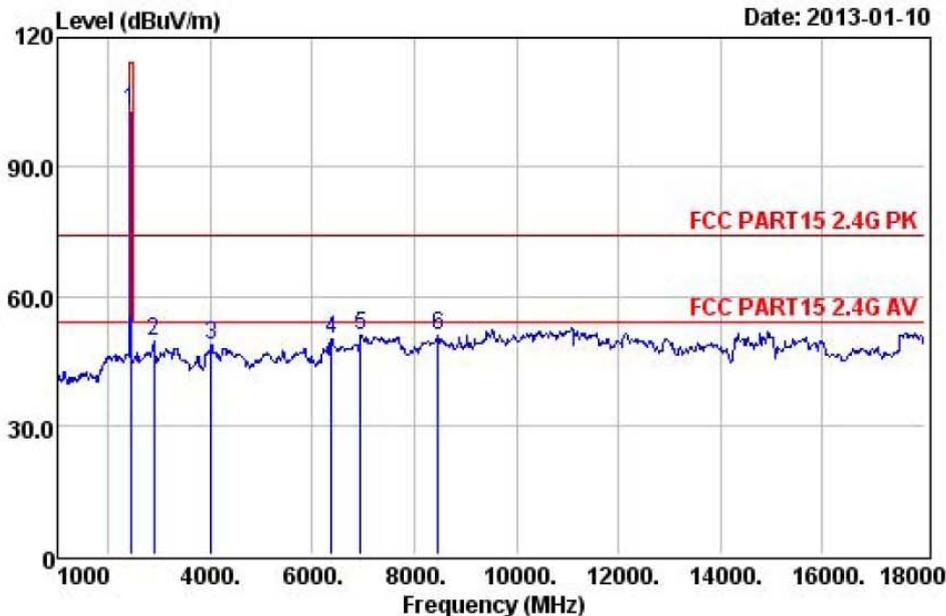


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Data: 50 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:56% Press:101.52kPa
Test Mode: 802.11n(HT20) 2437MHz

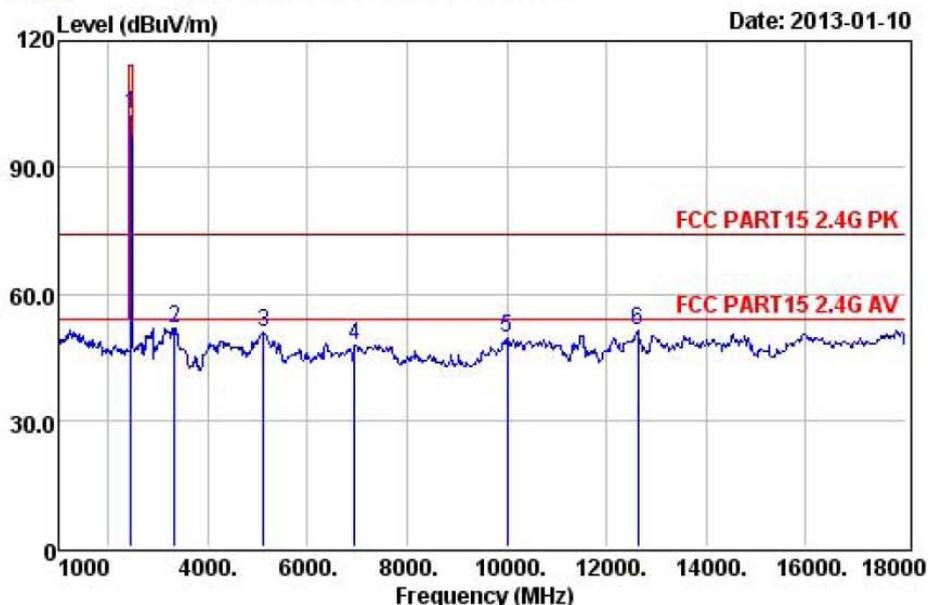
	Preamp	Read	Cable	Antenna	Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2437.00	26.33	93.30	7.43	28.76	103.16	114.00	-10.84	Peak
2	2887.00	26.46	37.09	9.38	29.72	49.73	74.00	-24.27	Peak
3	4009.00	27.01	33.76	10.50	31.52	48.77	74.00	-25.23	Peak
4	6372.00	27.77	25.44	16.60	35.71	49.98	74.00	-24.02	Peak
5	6933.00	27.89	25.05	16.60	37.02	50.78	74.00	-23.22	Peak
6	8463.00	28.24	25.34	16.76	36.77	50.63	74.00	-23.37	Peak





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Data: 51 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: 802.11n(HT20) 2462MHz

	Preamp	Read	Cable	Antenna	Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2462.00	26.34	92.53	7.52	28.77	102.48	114.00	-11.52	Peak
2	3329.00	26.66	38.32	9.96	30.33	51.95	74.00	-22.05	Peak
3	5114.00	27.61	32.21	12.72	33.56	50.88	74.00	-23.12	Peak
4	6933.00	27.89	22.05	16.60	37.02	47.78	74.00	-26.22	Peak
5	10010.00	28.80	22.90	16.97	38.43	49.50	74.00	-24.50	Peak
6	12628.00	29.13	22.92	17.90	39.82	51.51	74.00	-22.49	Peak

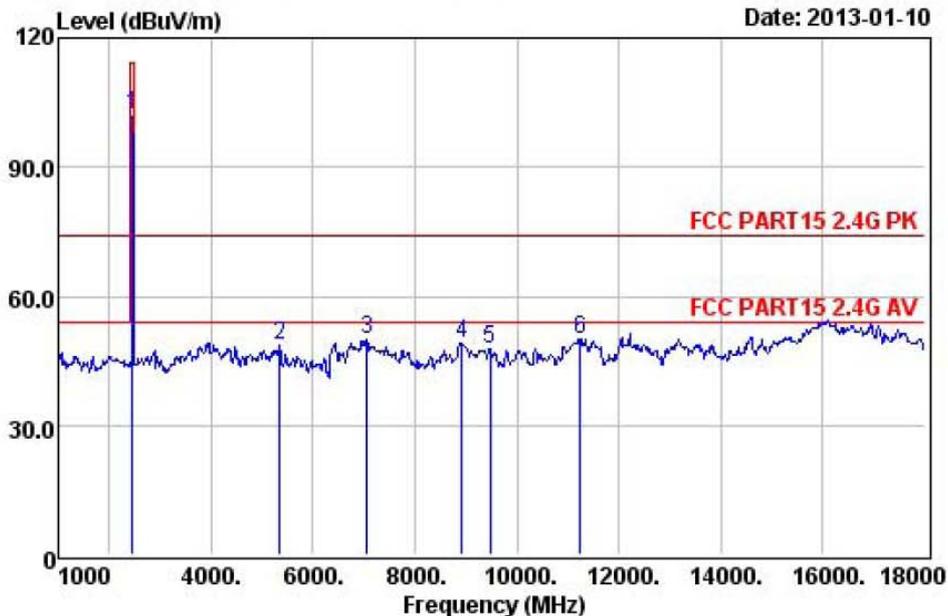




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Data: 52 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: 802.11n(HT20) 2462MHz

		Preamp	Read	Cable	Antenna		Limit	Over	
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2462.00	26.34	92.34	7.52	28.77	102.29	114.00	-11.71	Peak
2	5352.00	27.64	28.92	13.49	33.89	48.66	74.00	-25.34	Peak
3	7052.00	27.91	23.91	16.60	37.22	49.82	74.00	-24.18	Peak
4	8922.00	28.37	23.34	16.86	37.30	49.13	74.00	-24.87	Peak
5	9466.00	28.59	21.64	16.92	37.96	47.93	74.00	-26.07	Peak
6	11234.00	28.92	22.15	17.21	39.69	50.13	74.00	-23.87	Peak

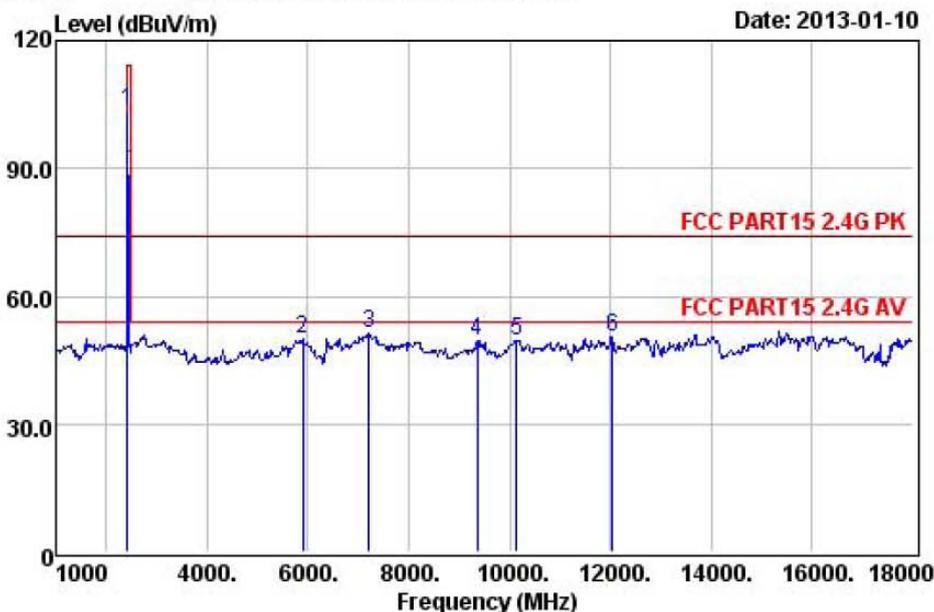




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Data: 53 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:56% Press:101.52kPa
Test Mode: 802.11n(HT40) 2422MHz

	Preamp	Read	Cable	Antenna	Limit	Over		
Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2422.00	26.33	93.65	7.43	28.74	103.49	114.00	-10.51 Peak
2	5896.00	27.69	26.57	16.04	34.97	49.89	74.00	-24.11 Peak
3	7205.00	27.94	25.46	16.61	37.28	51.41	74.00	-22.59 Peak
4	9364.00	28.54	23.54	16.91	37.83	49.74	74.00	-24.26 Peak
5	10129.00	28.81	22.90	16.99	38.61	49.69	74.00	-24.31 Peak
6	12033.00	29.01	22.71	17.40	39.41	50.51	74.00	-23.49 Peak

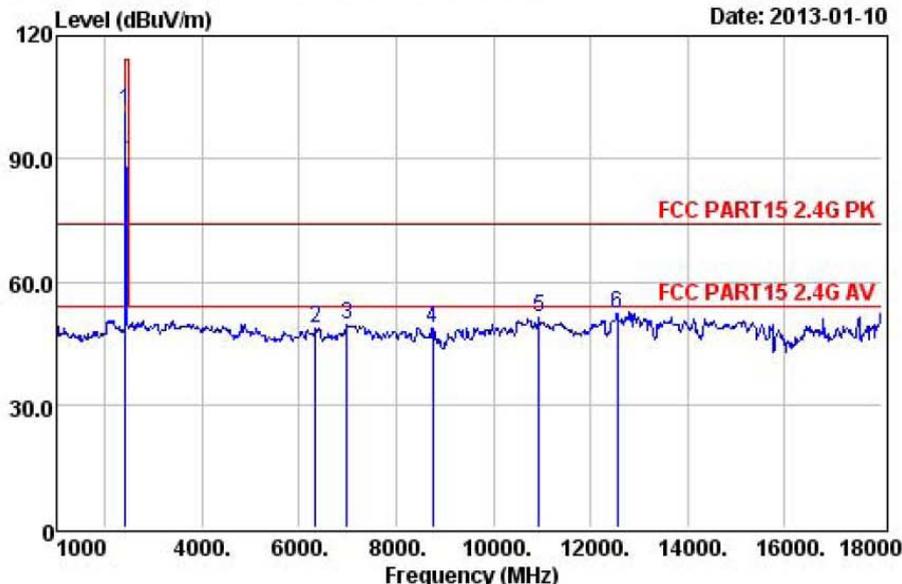




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Data: 54 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:54% Press:101.29kPa
 Test Mode: 802.11n(HT40) 2422MHz

	Preamp	Read	Cable	Antenna	Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line		
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m		
1	2422.00	26.33	91.83	7.43	28.74	101.67	114.00	-12.33	Peak
2	6338.00	27.77	24.16	16.60	35.67	48.66	74.00	-25.34	Peak
3	6984.00	27.90	23.45	16.60	37.16	49.31	74.00	-24.69	Peak
4	8752.00	28.32	23.22	16.83	37.10	48.83	74.00	-25.17	Peak
5	10928.00	28.89	23.44	17.15	39.46	51.16	74.00	-22.84	Peak
6	12560.00	29.11	23.96	17.84	39.66	52.35	74.00	-21.65	Peak

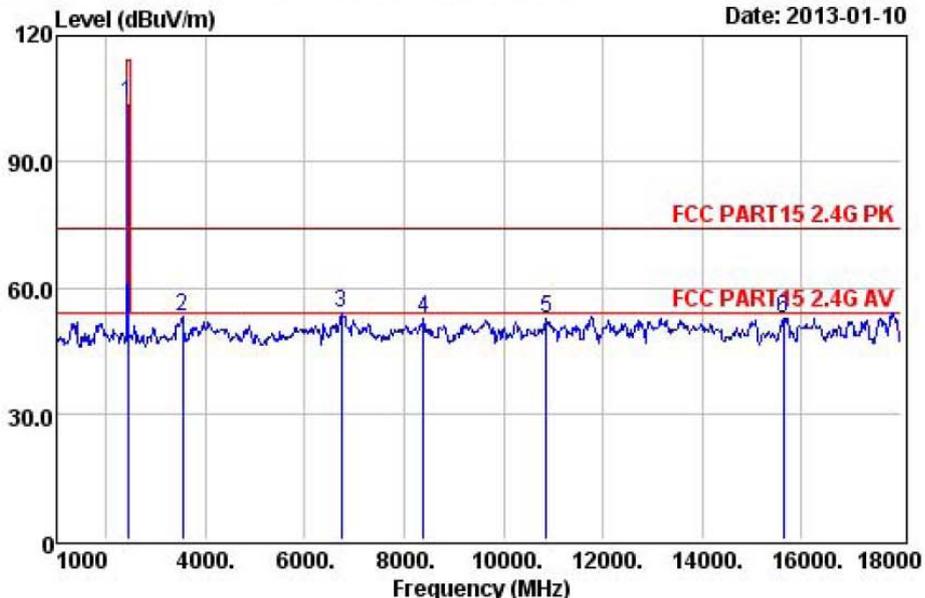




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Data: 55 File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: 802.11n(HT40) 2437MHz

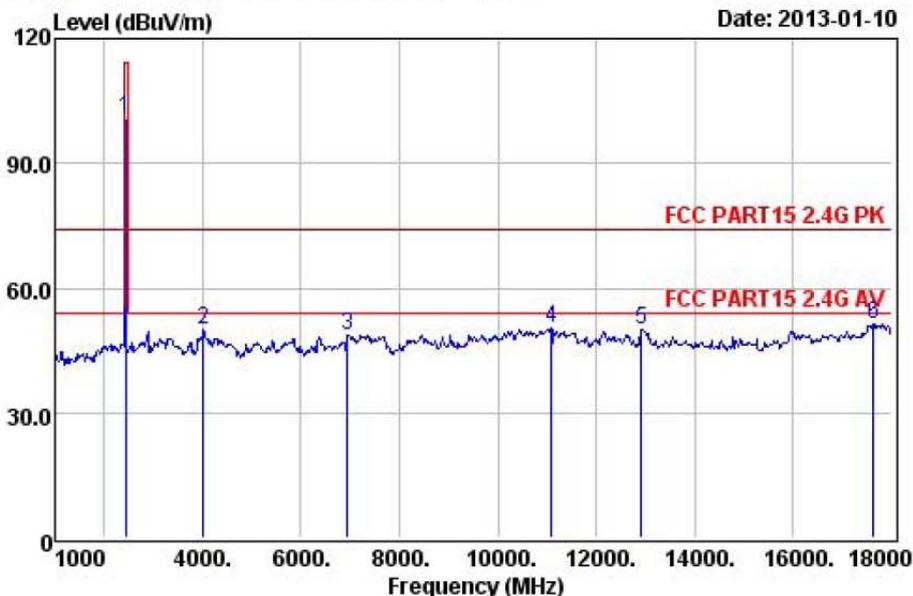
	Preamp	Read	Cable	Antenna	Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz		dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2437.00	26.33	94.29	7.43	28.76	104.15	114.00	-9.85	Peak
2	3533.00	26.77	39.48	9.99	30.57	53.27	74.00	-20.73	Peak
3	6729.00	27.85	28.60	16.60	36.48	53.83	74.00	-20.17	Peak
4	8395.00	28.22	27.54	16.75	36.72	52.79	74.00	-21.21	Peak
5	10860.00	28.89	24.76	17.14	39.42	52.43	74.00	-21.57	Peak
6	15637.00	29.65	23.17	20.41	38.92	52.85	74.00	-21.15	Peak





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Data: 56 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: 802.11n(HT40) 2437MHz

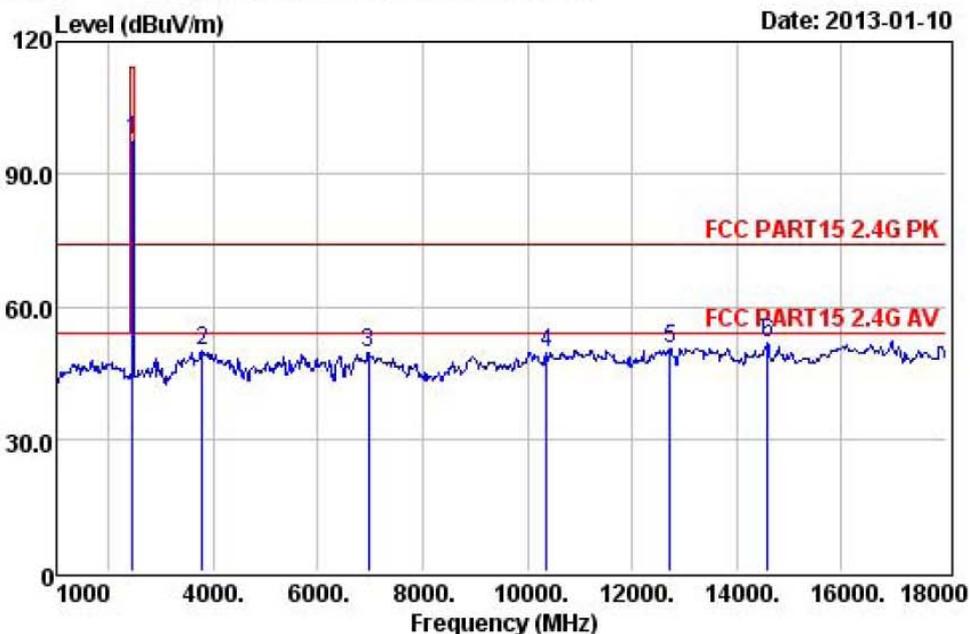
	Preamp	Read	Cable	Antenna	Limit	Over		
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit
	MHz		dBuV	dB	dB/m	dBuV/m	dBuV/m	dB
1	2437.00	26.33	90.83	7.43	28.76	100.69	114.00	-13.31 Peak
2	4009.00	27.01	34.76	10.50	31.52	49.77	74.00	-24.23 Peak
3	6933.00	27.89	23.05	16.60	37.02	48.78	74.00	-25.22 Peak
4	11081.00	28.91	22.70	17.18	39.57	50.54	74.00	-23.46 Peak
5	12917.00	29.18	20.56	18.14	40.50	50.02	74.00	-23.98 Peak
6	17626.00	30.35	14.58	21.91	45.33	51.47	74.00	-22.53 Peak





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Data: 57 File: D:\966 data\report\RF.EM6 (103)



Site : 966 Chamber
 Condition: FCC PART15 2.4G PK 3m ZN30701 HORIZONTAL
 EUT : Wireless Camera Controller
 M/N : CameraMator
 Power : DC 5V from PC input AC 120V/60Hz
 Test By : Andy
 Comment : Temp:24.8'C Humi:56% Press:101.52kPa
 Test Mode: 802.11n(HT40) 2452MHz

	Preamp	Read	Cable&Antenna		Limit	Over			
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2452.00	26.33	87.95	7.48	28.76	97.86	114.00	-16.14	Peak
2	3788.00	26.90	35.53	10.24	31.09	49.96	74.00	-24.04	Peak
3	6967.00	27.89	23.77	16.60	37.11	49.59	74.00	-24.41	Peak
4	10367.00	28.84	22.53	17.04	38.99	49.72	74.00	-24.28	Peak
5	12730.00	29.15	21.60	17.99	40.06	50.50	74.00	-23.50	Peak
6	14583.00	29.49	21.10	19.73	40.25	51.59	74.00	-22.41	Peak





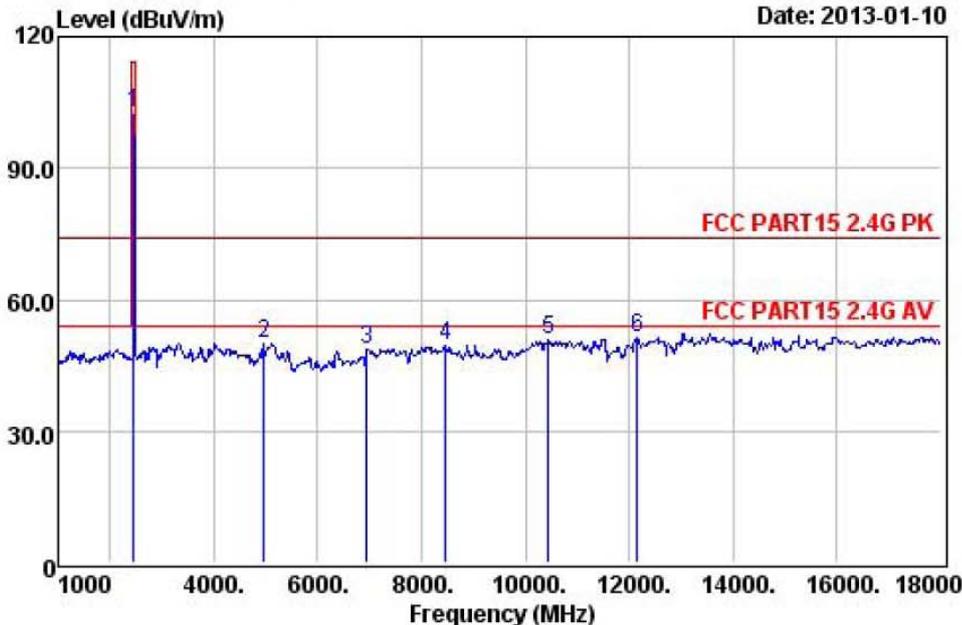
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Data: 58

File: D:\966 data\report\RF.EM6 (103)

Date: 2013-01-10



Site : 966 Chamber
Condition: FCC PART15 2.4G PK 3m ZN30701 VERTICAL
EUT : Wireless Camera Controller
M/N : CameraMator
Power : DC 5V from PC input AC 120V/60Hz
Test By : Andy
Comment : Temp:24.8'C Humi:56% Press:101.52kPa
Test Mode: 802.11n(HT40) 2452MHz

		Preamp	Read	Cable	Antenna	Limit	Over		
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2452.00	26.33	92.72	7.48	28.76	102.63	114.00	-11.37	Peak
2	4961.00	27.58	31.99	12.36	33.32	50.09	74.00	-23.91	Peak
3	6933.00	27.89	23.05	16.60	37.02	48.78	74.00	-25.22	Peak
4	8463.00	28.24	24.34	16.76	36.77	49.63	74.00	-24.37	Peak
5	10435.00	28.84	23.50	17.05	39.09	50.80	74.00	-23.20	Peak
6	12152.00	29.03	23.57	17.50	39.43	51.47	74.00	-22.53	Peak



**For conducted test
80.211b 2412MHz**

