



Test Date : Nov. 07, 2008
 Temperature : 26
 Humidity : 65%
 Atmospheric Pressure : 1007 hPa
 Test Mode : IP1006GB

Modulation Standard: IEEE 802.11n HT20 (130Mbps), Adapter: Leader \ MT12-Y120100-A1

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2326.22	H	58.73	-3.73	55.00	Peak	74	54	-19.00	240	1.26
2389.97	H	46.98	-3.50	43.48	Ave	74	54	-10.52	240	1.26
2333.15	V	59.54	-3.70	55.84	Peak	74	54	-18.16	206	1.00
2328.26	V	46.65	-3.72	42.93	Ave	74	54	-11.07	206	1.00
Channel 11						Fundamental Frequency: 2462 MHz				
2494.45	H	59.34	-3.12	55.61	Peak	74	54	-18.39	240	1.17
2499.32	H	46.83	-3.10	43.33	Ave	74	54	-10.67	240	1.17
2494.83	V	57.79	-3.12	54.09	Peak	74	54	-19.91	177	1.00
2499.58	V	46.68	-3.10	42.96	Ave	74	54	-11.04	177	1.00

Modulation Standard: IEEE 802.11n HT40 (270Mbps), Adapter: Leader \ MT12-Y120100-A1

Channel 3						Fundamental Frequency: 2422 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2356.31	H	59.37	-3.62	55.75	Peak	74	54	-18.25	240	1.16
2389.97	H	47.46	-3.50	43.96	Ave	74	54	-10.04	240	1.16
2384.87	V	61.30	-3.51	57.79	Peak	74	54	-16.21	160	1.00
2389.76	V	46.59	-3.50	43.09	Ave	74	54	-10.91	160	1.00
Channel 9						Fundamental Frequency: 2452 MHz				
2498.06	H	58.88	-3.11	55.77	Peak	74	54	-18.23	240	1.18
2499.77	H	47.00	-3.10	43.90	Ave	74	54	-10.10	240	1.18
2489.13	V	59.73	-3.14	56.59	Peak	74	54	-17.41	185	1.00
2485.45	V	46.64	-3.15	43.49	Ave	74	54	-10.51	185	1.00

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz



Test Date : Nov. 07, 2008
 Temperature : 26
 Humidity : 65%
 Atmospheric Pressure : 1007 hPa
 Test Mode : IP1006GB

Modulation Standard: IEEE 802.11b (11Mbps), Adapter: Sunny \ SYS1381-1212-W2

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.76	H	61.74	-3.50	58.24	Peak	74	54	-15.76	200	1.10
2334.38	H	48.16	-3.70	44.46	Ave	74	54	-9.54	200	1.10
2363.24	V	59.52	-3.59	55.93	Peak	74	54	-18.07	192	1.00
2389.97	V	46.94	-3.50	43.44	Ave	74	54	-10.56	192	1.00
Channel 11						Fundamental Frequency: 2462 MHz				
2483.81	H	58.81	-3.16	55.65	Peak	74	54	-18.35	231	1.15
2499.32	H	47.29	-3.10	44.19	Ave	74	54	-9.81	231	1.15
2483.51	V	60.74	-3.16	57.58	Peak	74	54	-16.42	173	1.00
2483.51	V	49.02	-3.16	45.86	Ave	74	54	-8.14	173	1.00

Modulation Standard: IEEE 802.11g (54Mbps), Adapter: Sunny \ SYS1381-1212-W2

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2371.91	H	58.40	-3.56	54.84	Peak	74	54	-19.16	226	1.15
2389.97	H	47.39	-3.50	43.89	Ave	74	54	-10.11	226	1.15
2389.46	V	57.87	-3.50	54.37	Peak	74	54	-19.63	190	1.00
2389.97	V	46.27	-3.50	42.77	Ave	74	54	-11.23	190	1.00
Channel 11						Fundamental Frequency: 2462 MHz				
2496.85	H	58.71	-3.11	55.60	Peak	74	54	-18.40	240	1.15
2495.40	H	47.78	-3.12	44.66	Ave	74	54	-9.34	240	1.15
2486.21	V	58.82	-3.15	55.67	Peak	74	54	-18.33	174	1.00
2483.51	V	46.89	-3.16	43.73	Ave	74	54	-10.27	174	1.00

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz



Test Date : Nov. 07, 2008
 Temperature : 26
 Humidity : 65%
 Atmospheric Pressure : 1007 hPa
 Test Mode : IP1006GB

Modulation Standard: IEEE 802.11n HT20 (130Mbps), Adapter: Sunny \ SYS1381-1212-W2

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2326.22	H	59.12	-3.73	55.39	Peak	74	54	-18.61	240	1.26
2389.97	H	46.80	-3.50	43.30	Ave	74	54	-10.70	240	1.26
2333.15	V	60.04	-3.70	56.34	Peak	74	54	-17.66	206	1.00
2328.26	V	46.37	-3.72	42.65	Ave	74	54	-11.35	206	1.00
Channel 11						Fundamental Frequency: 2462 MHz				
2494.45	H	58.89	-3.12	55.77	Peak	74	54	-18.23	240	1.17
2499.32	H	46.84	-3.10	43.74	Ave	74	54	-10.26	240	1.17
2494.83	V	57.94	-3.12	54.82	Peak	74	54	-19.18	177	1.00
2499.58	V	46.74	-3.10	43.64	Ave	74	54	-10.36	177	1.00

Modulation Standard: IEEE 802.11n HT40 (270Mbps), Adapter: Sunny \ SYS1381-1212-W2

Channel 3						Fundamental Frequency: 2422 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2356.31	H	59.31	-3.62	55.69	Peak	74	54	-18.31	240	1.16
2389.97	H	46.53	-3.50	43.03	Ave	74	54	-10.97	240	1.16
2384.87	V	61.24	-3.51	57.73	Peak	74	54	-16.27	160	1.00
2389.76	V	46.73	-3.50	43.23	Ave	74	54	-10.77	160	1.00
Channel 9						Fundamental Frequency: 2452 MHz				
2498.06	H	58.95	-3.11	55.84	Peak	74	54	-18.16	240	1.18
2499.77	H	47.77	-3.10	44.67	Ave	74	54	-9.33	240	1.18
2489.13	V	58.88	-3.14	55.74	Peak	74	54	-18.26	185	1.00
2485.45	V	46.18	-3.15	43.03	Ave	74	54	-10.97	185	1.00

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz



9. Power Spectral Density

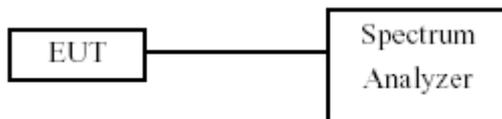
9.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

9.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=span/3KHz.
- c. The power spectral density was measured and recorded.
- d. The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

9.3 Test Setup Layout



9.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21



9.5 Test Result and Data

Test Date: Nov. 05, 2008

Temperature: 20

Atmospheric pressure: 1008 hPa

Humidity: 60%

Test Mode: IP1006GA

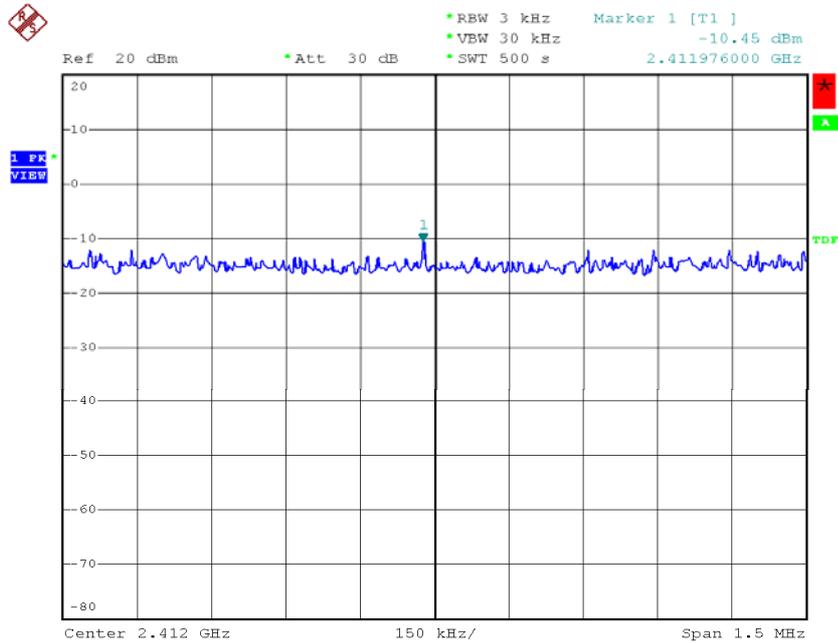
Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			TX0	TX1	
802.11b (11Mbps)	01	2412	-10.45	-12.01	
	06	2437	-10.53	-12.57	
	11	2462	-14.73	-12.39	
802.11g (54Mbps)	01	2412	-17.96	-17.68	
	06	2437	-17.84	-17.95	
	11	2462	-17.70	-18.47	
			TX0	TX1	ALL
802.11n HT20 (130Mbps)	01	2412	-16.82	-19.26	-14.86
	06	2437	-15.38	-18.46	-13.64
	11	2462	-17.43	-19.23	-15.23
802.11n HT40 (270Mbps)	03	2422	-23.06	-22.67	-19.85
	06	2437	-22.15	-27.42	-21.02
	09	2452	-27.92	-27.56	-24.73

Test Mode: IP1006GB

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			TX0	TX1	
802.11b (11Mbps)	01	2412	-9.93	-11.06	
	06	2437	-9.63	-12.04	
	11	2462	-10.36	-12.65	
802.11g (54Mbps)	01	2412	-17.94	-18.23	
	06	2437	-17.98	-17.59	
	11	2462	-18.39	-18.32	
			TX0	TX1	TX0
802.11n HT20 (130Mbps)	01	2412	-19.20	-19.34	-14.86
	06	2437	-16.59	-18.95	-13.64
	11	2462	-19.84	-18.93	-15.23
802.11n HT40 (270Mbps)	03	2422	-19.30	-23.99	-19.85
	06	2437	-19.82	-27.36	-21.02
	09	2452	-26.59	-27.63	-24.73

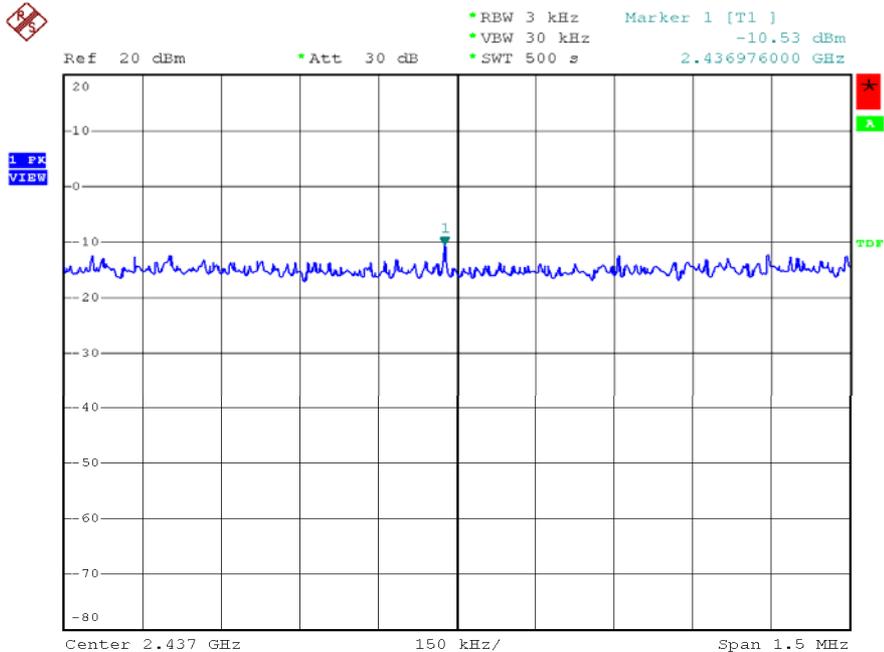


Model No.: IP1006GA, Modulation Standard: 802.11b (11Mbps), TX0
Channel: 01



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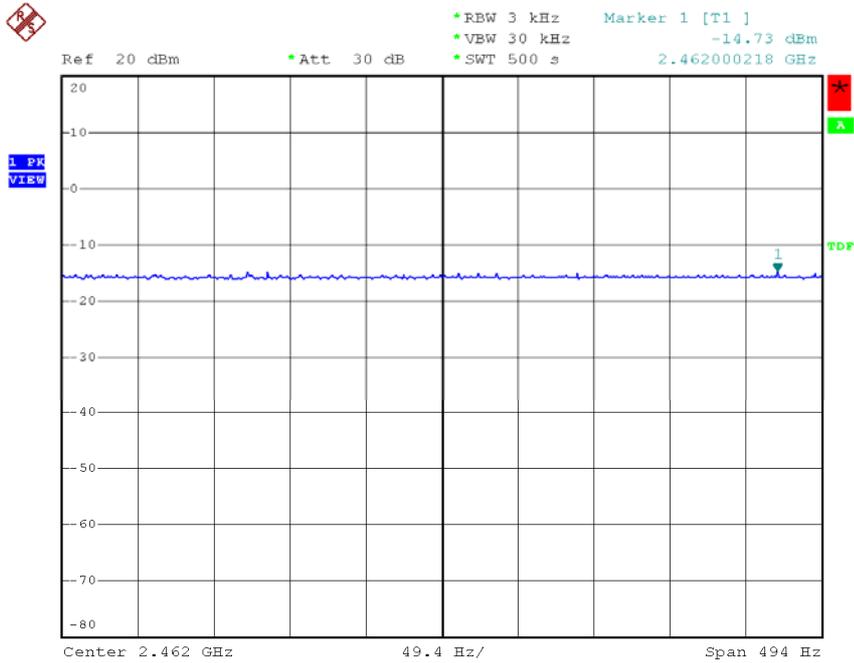
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Channel: 06



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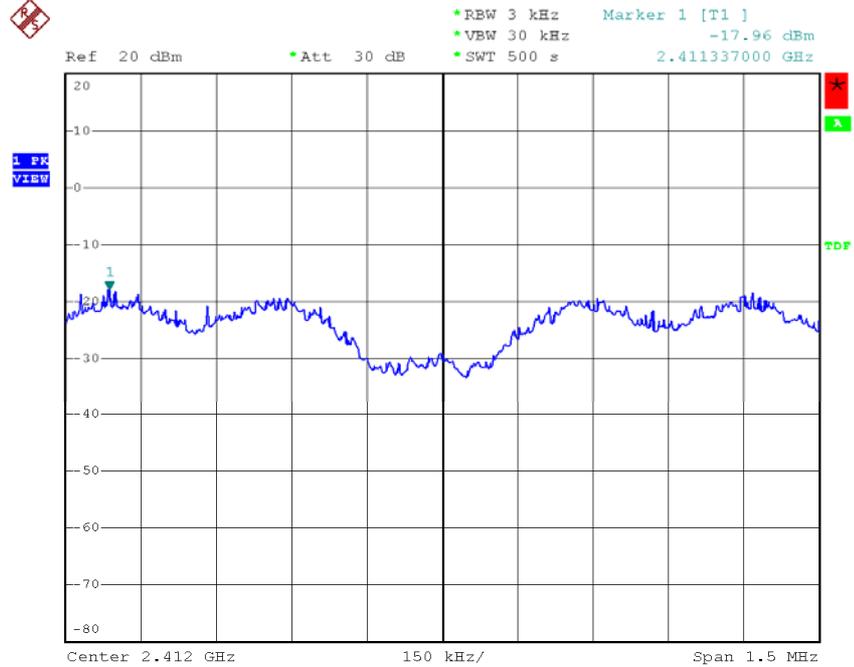


Model No.: IP1006GA, Modulation Standard: 802.11b (11Mbps), TX0
Channel: 11



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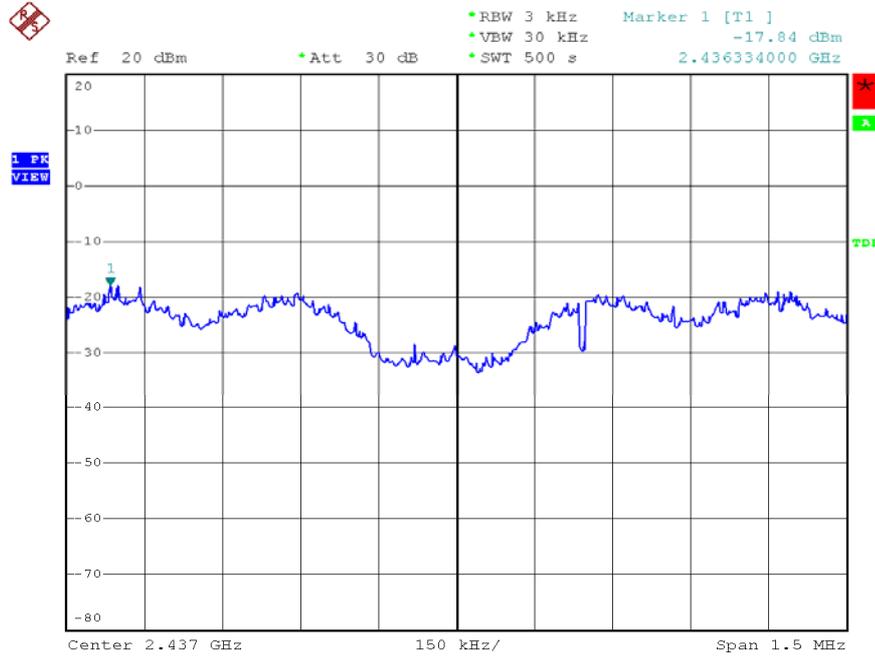
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Channel: 01



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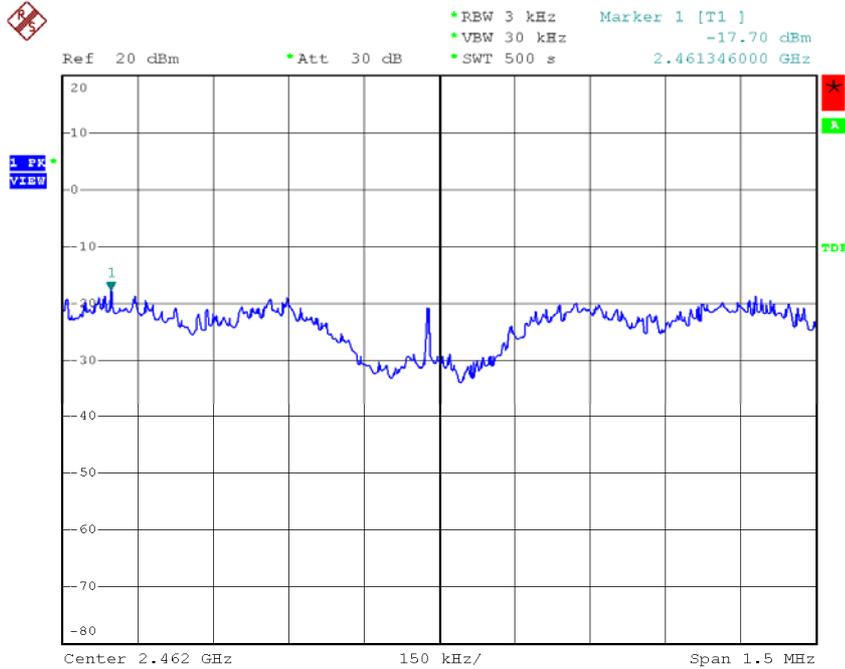


Model No.: IP1006GA, Modulation Standard: 802.11g (54Mbps), TX0
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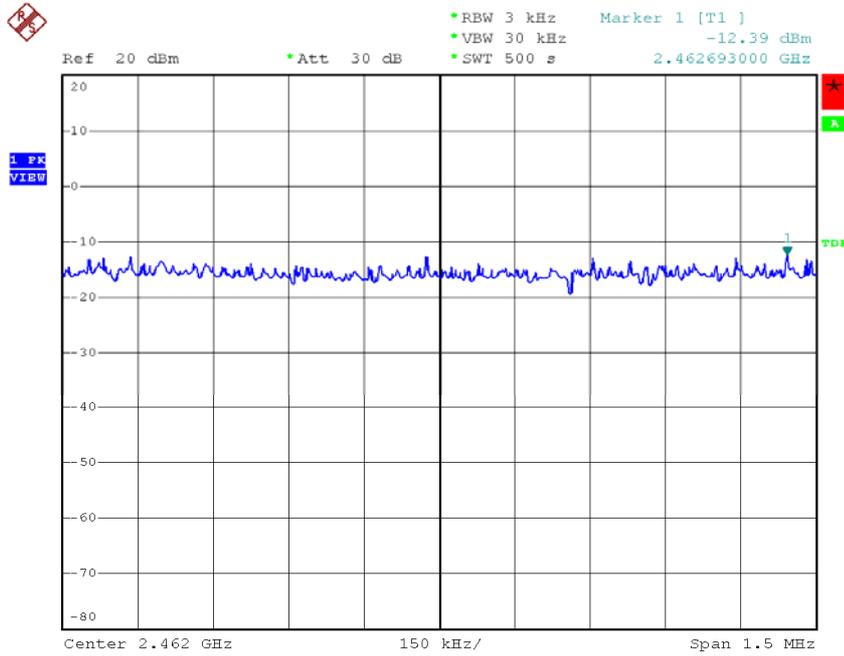
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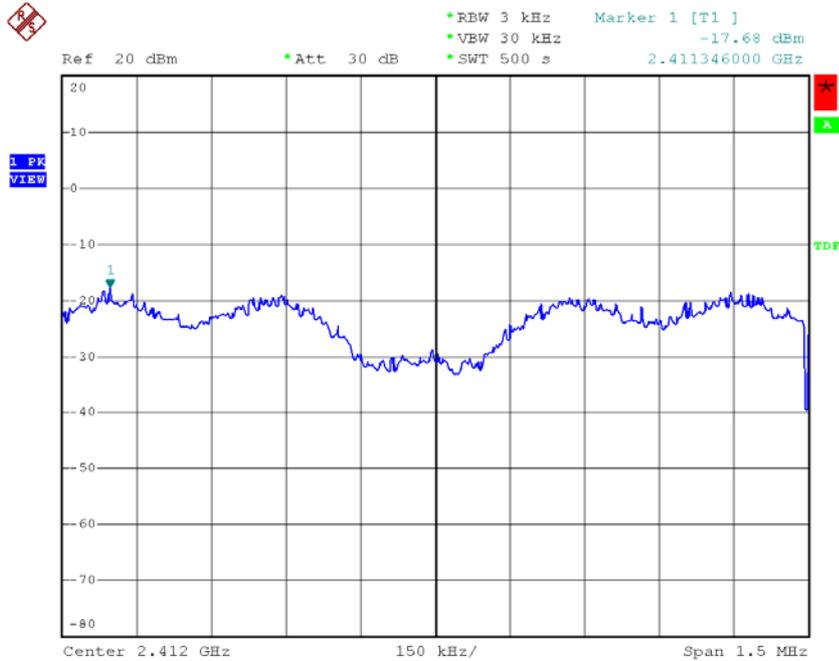


Model No.: IP1006GA, Modulation Standard: 802.11b (11Mbps), TX1
Channel: 11



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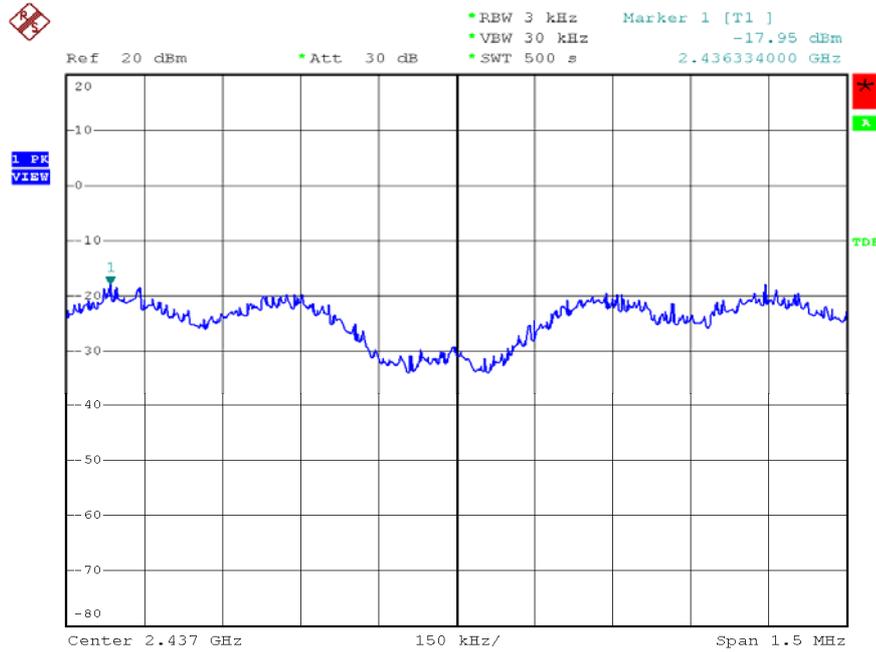
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Channel: 01



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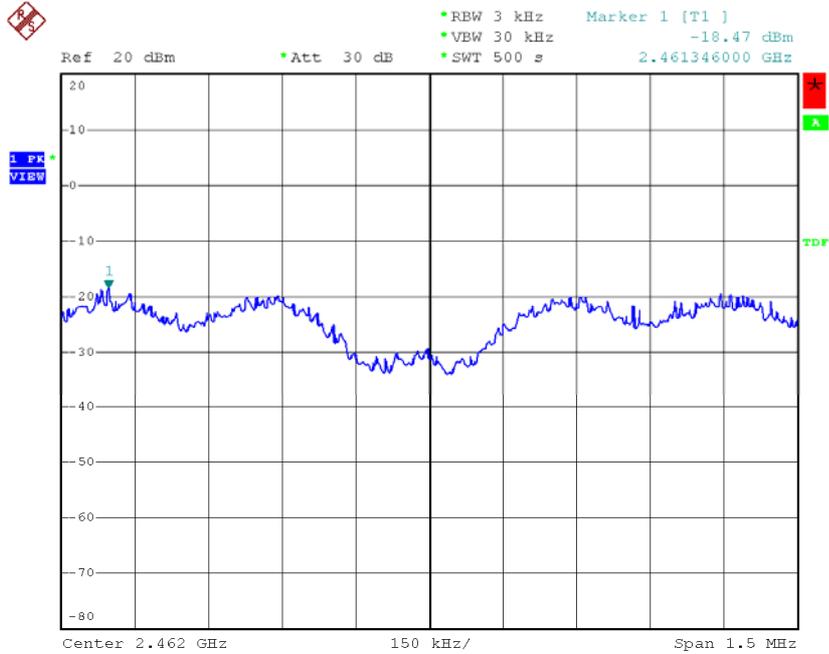


Model No.: IP1006GA, Modulation Standard: 802.11g (54Mbps), TX1
Channel: 06



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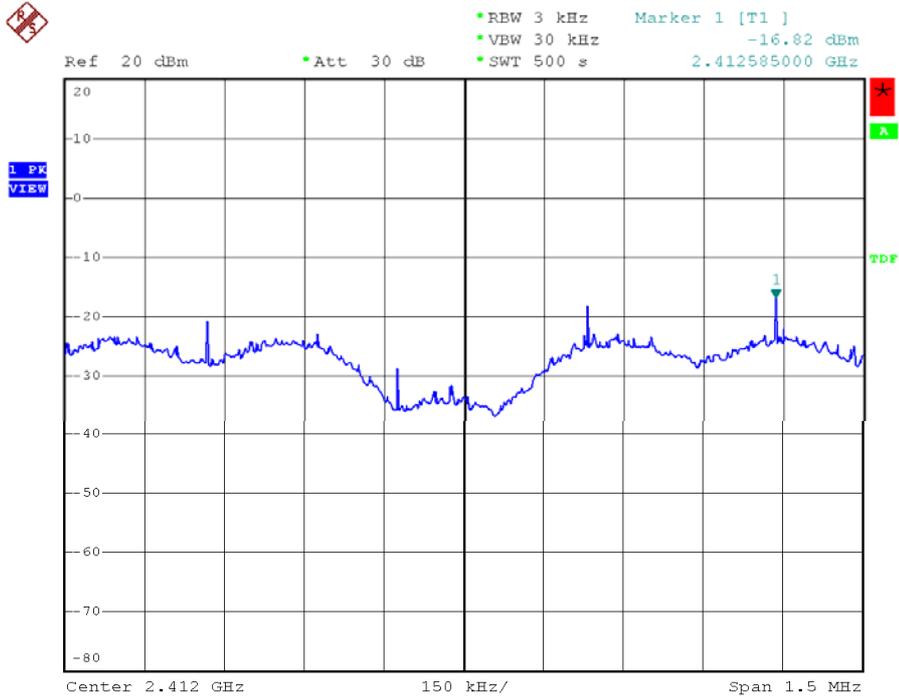
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Channel: 11



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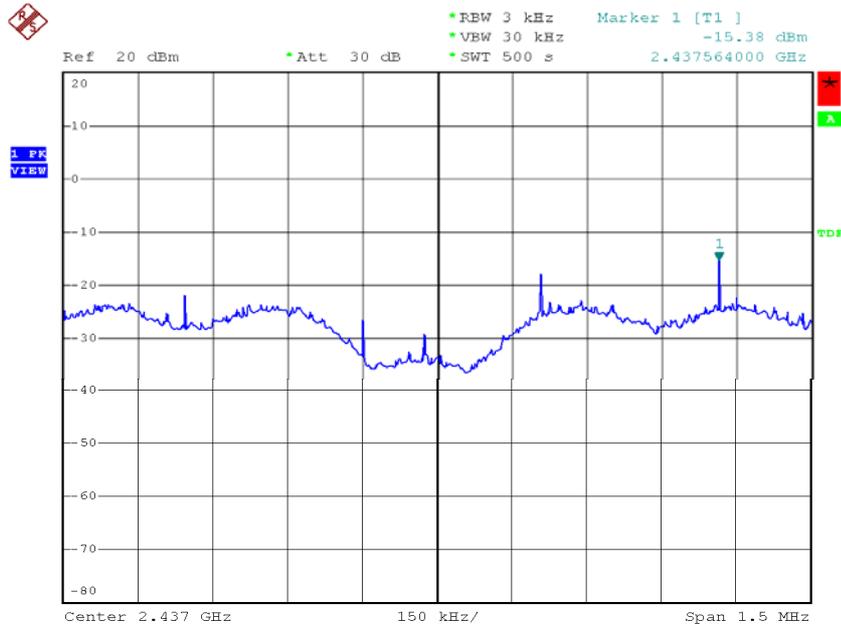


Model No.: IP1006GA, Modulation Standard: 802.11n HT20 (130Mbps), TX0
Channel: 01



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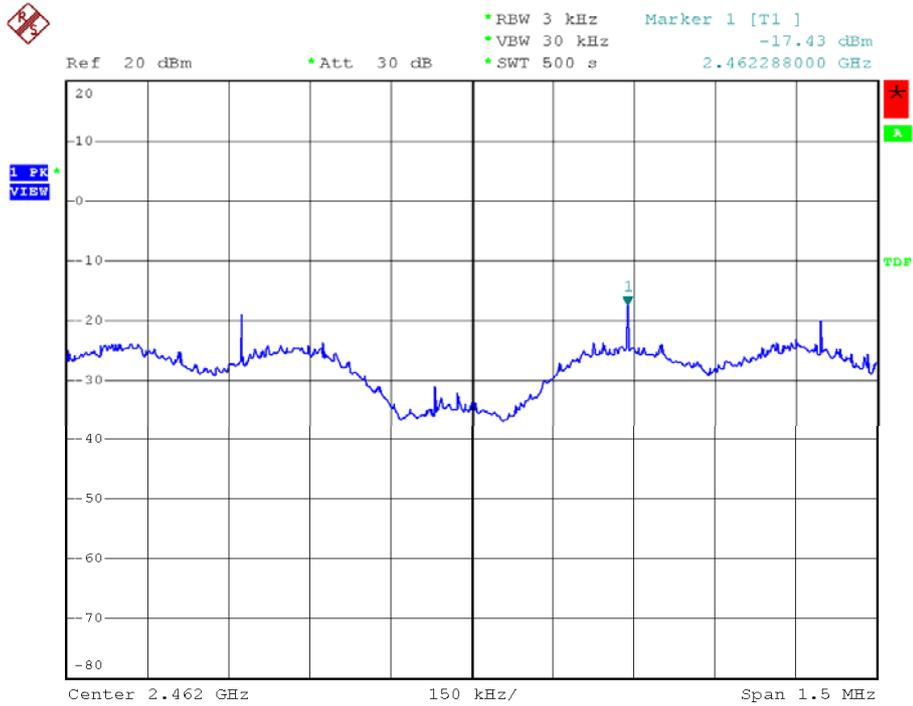
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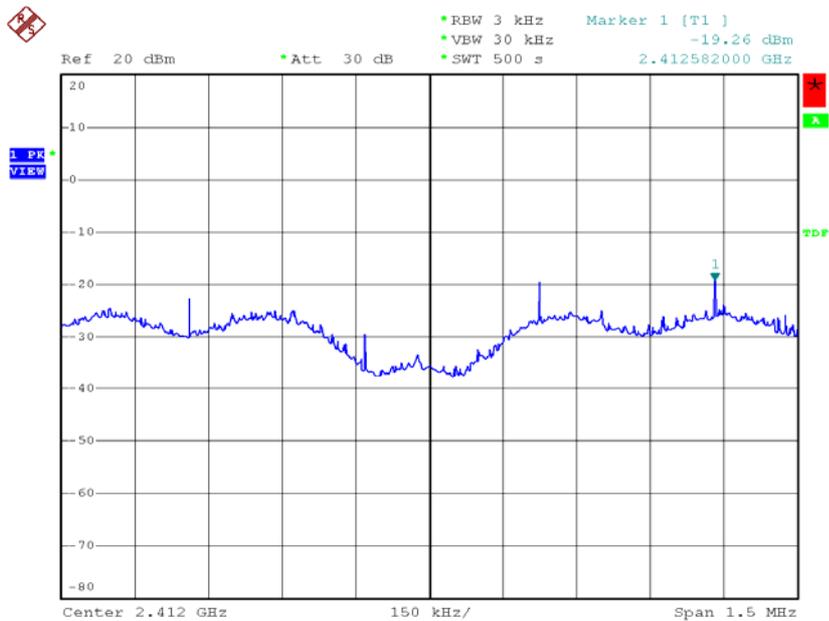


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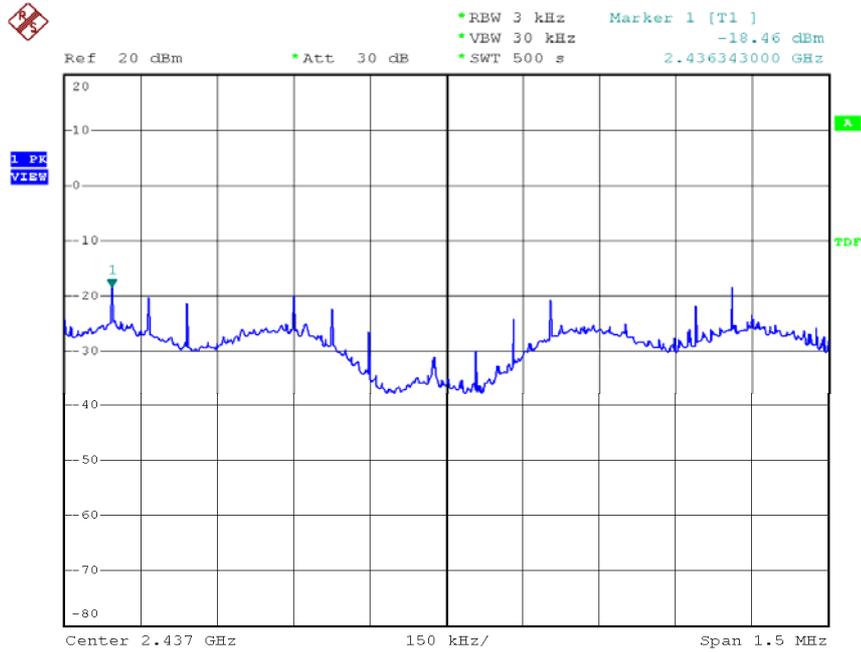
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Channel: 01



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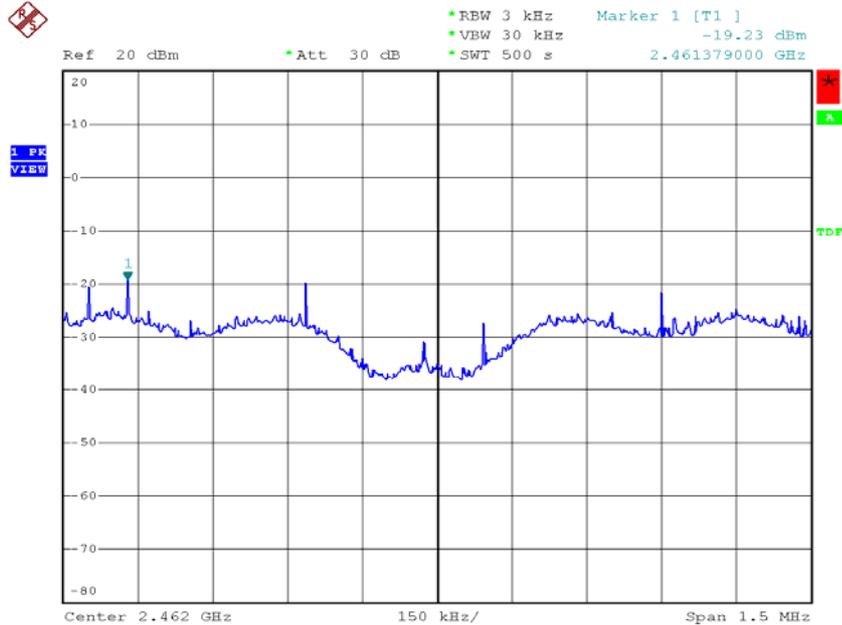


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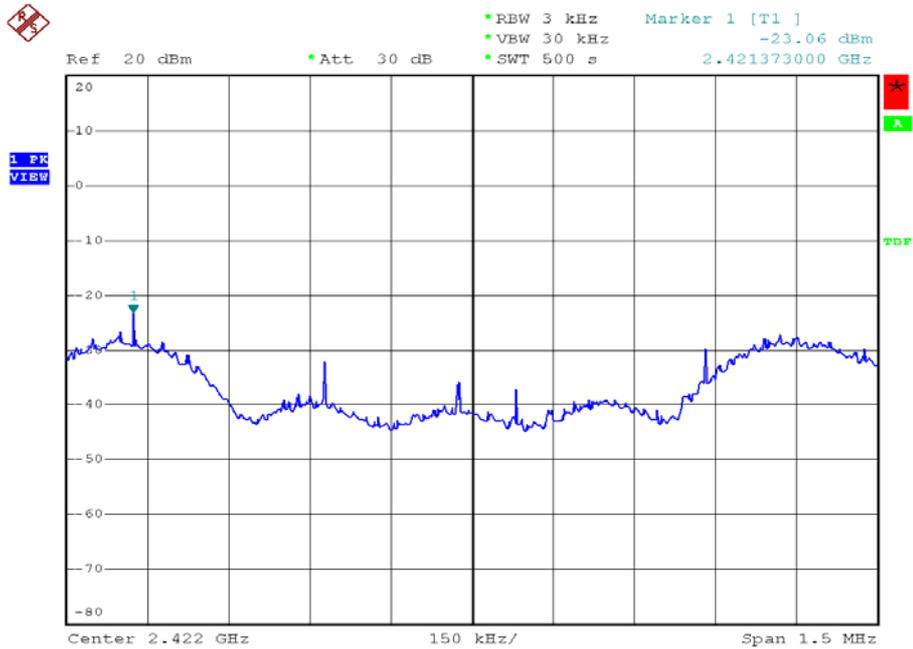
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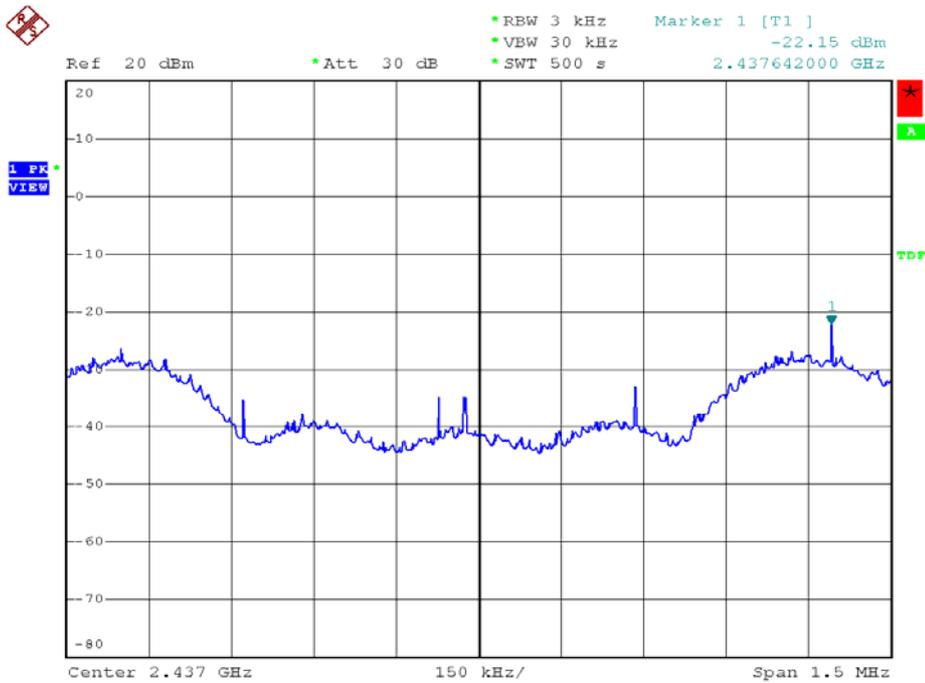


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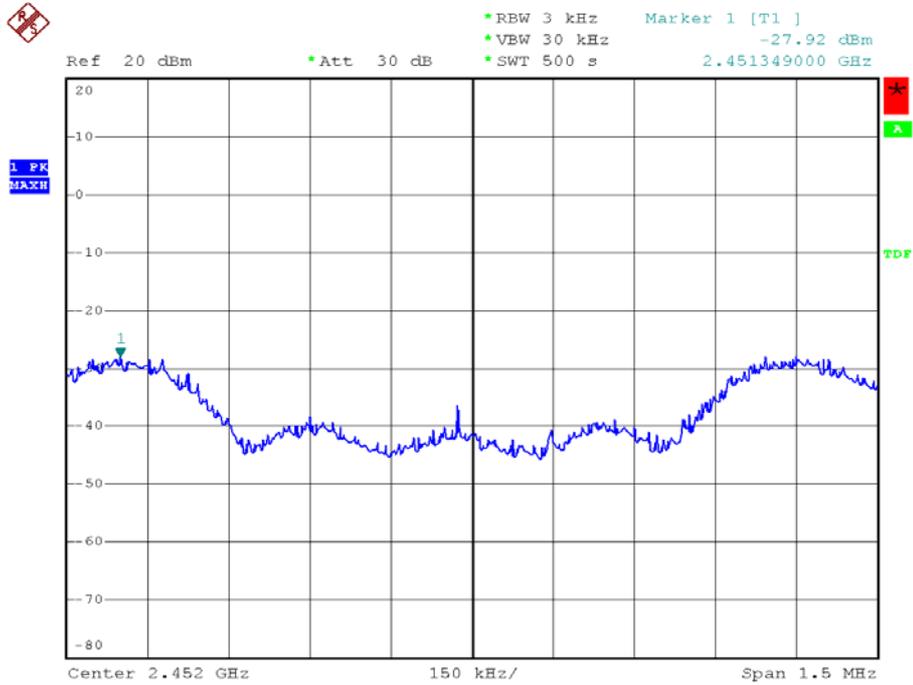
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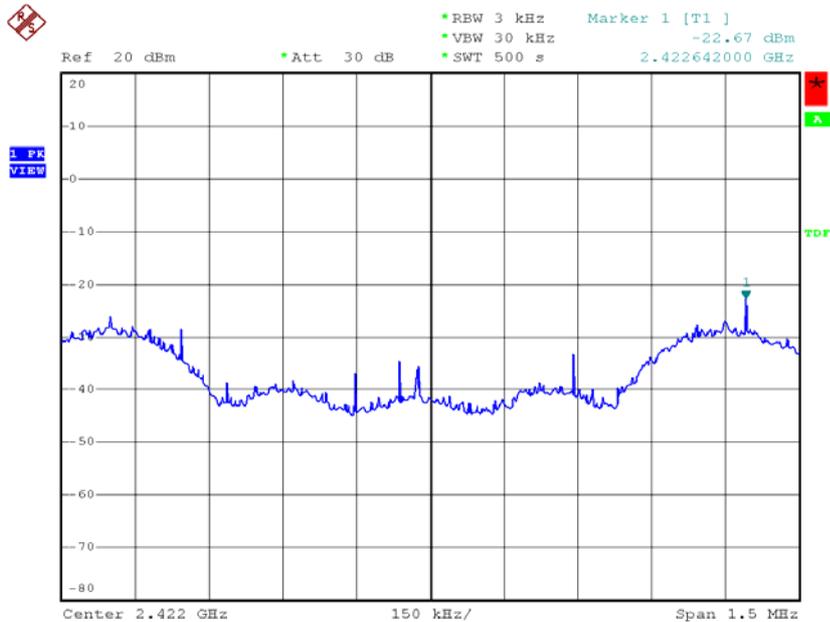


Model No.: IP1006GA, Modulation Standard: 802.11n HT40 (270Mbps), TX0
Channel: 09



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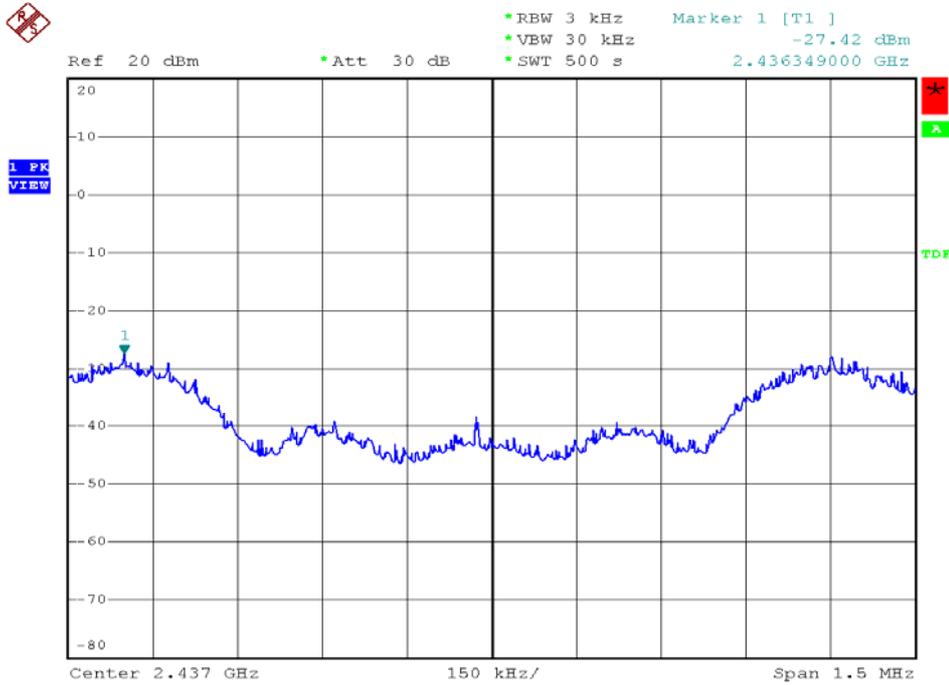
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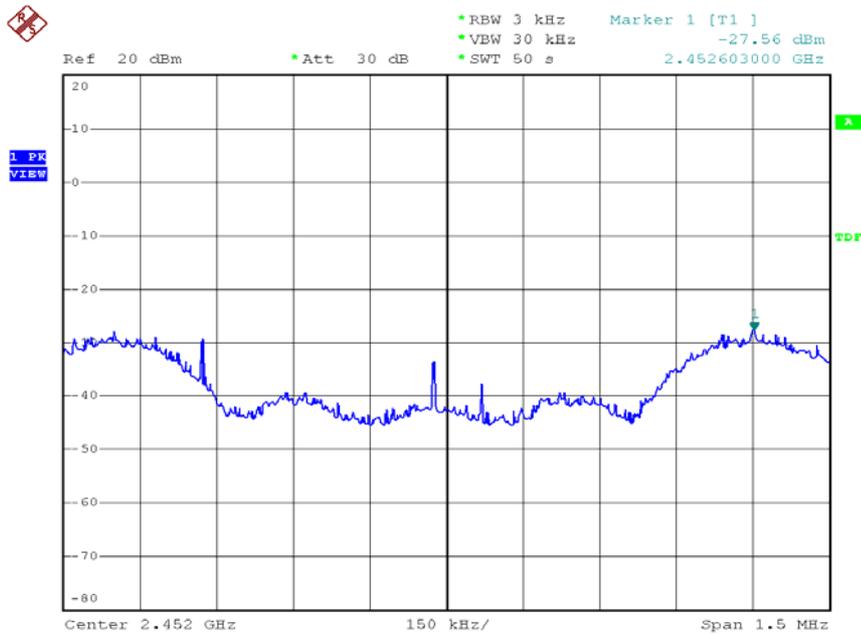


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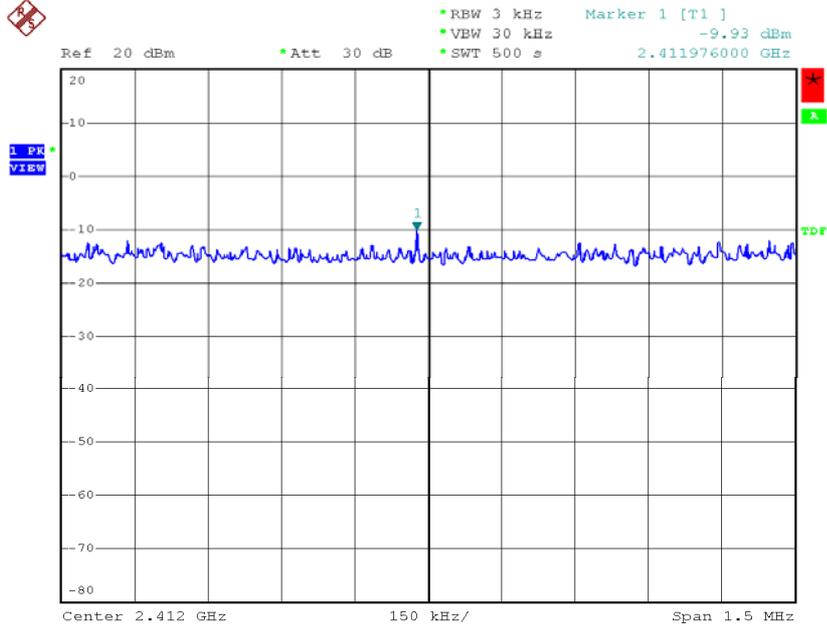
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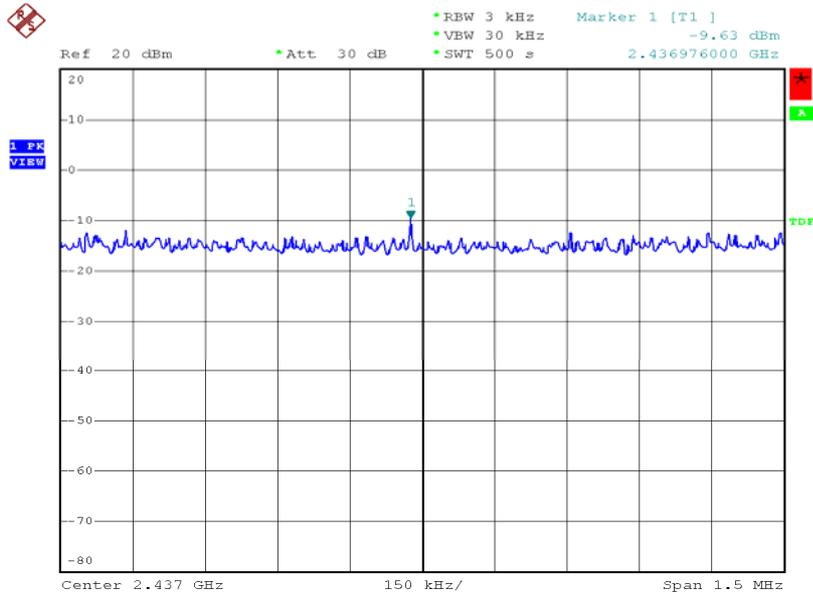


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Channel: 01



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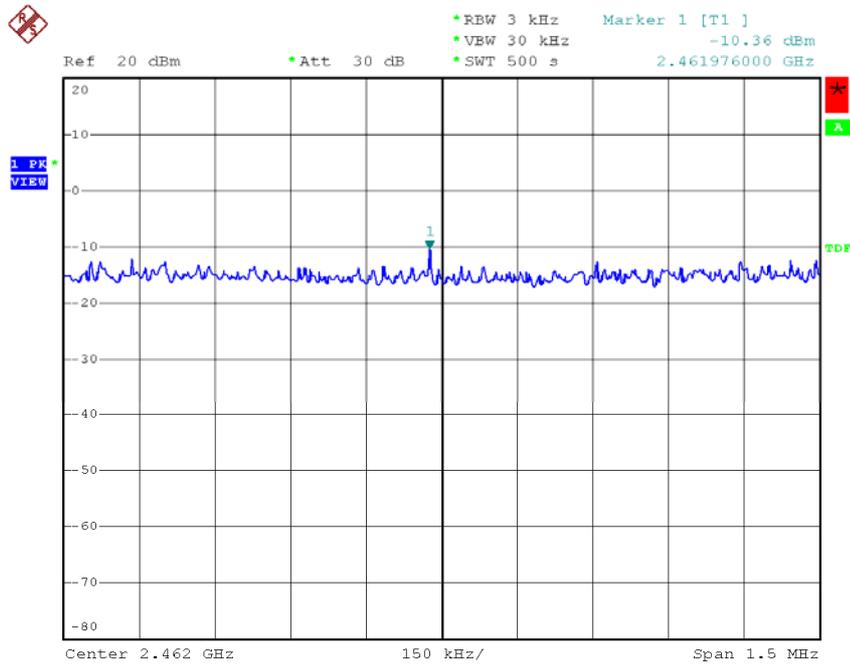
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Channel: 06



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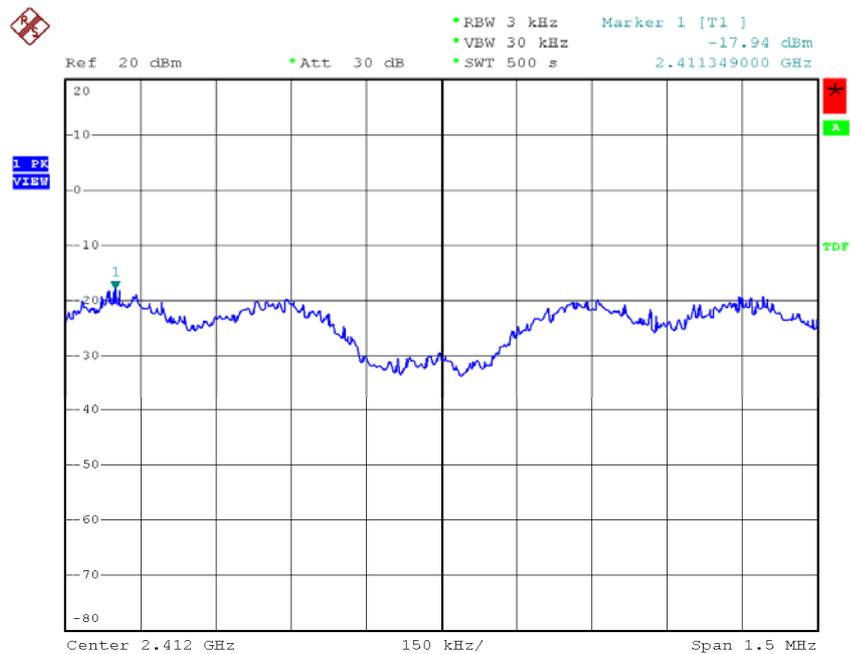


Model No.: IP1006GB, Modulation Standard: 802.11b (11Mbps), TX0
Channel: 11



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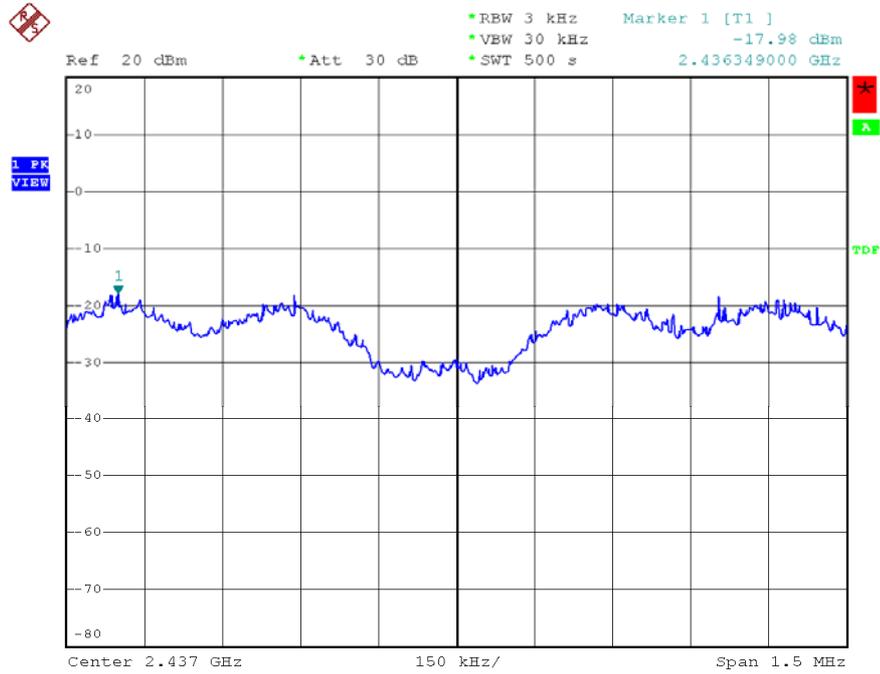
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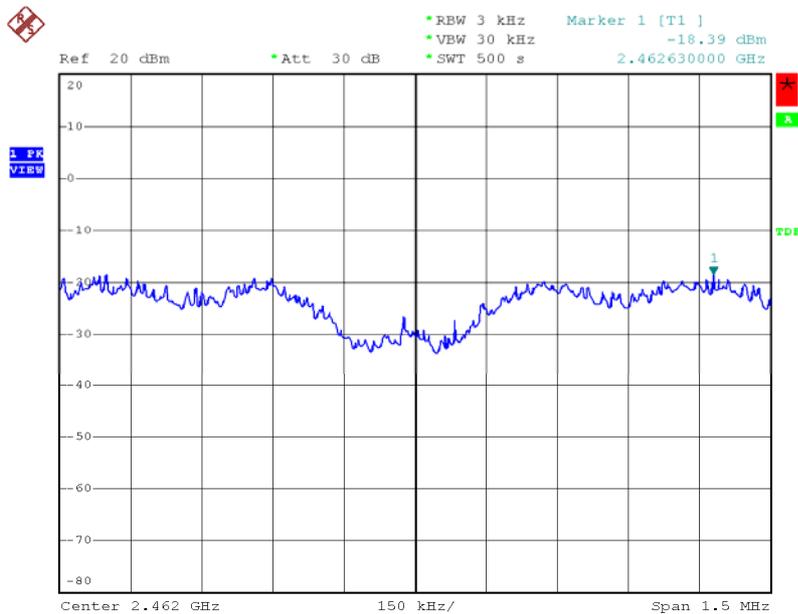


Model No.: IP1006GB, Modulation Standard: 802.11g (54Mbps), TX0
Channel: 06



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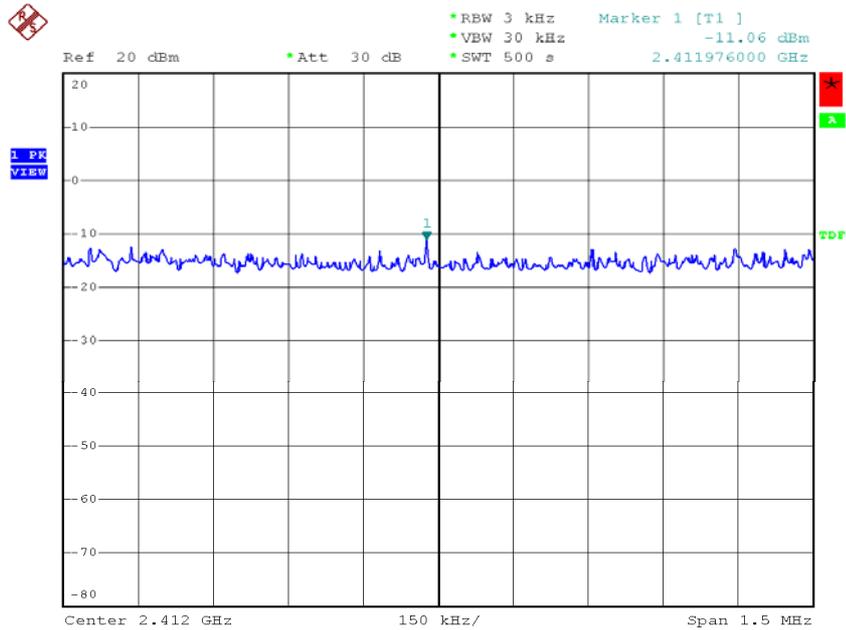
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Channel: 11



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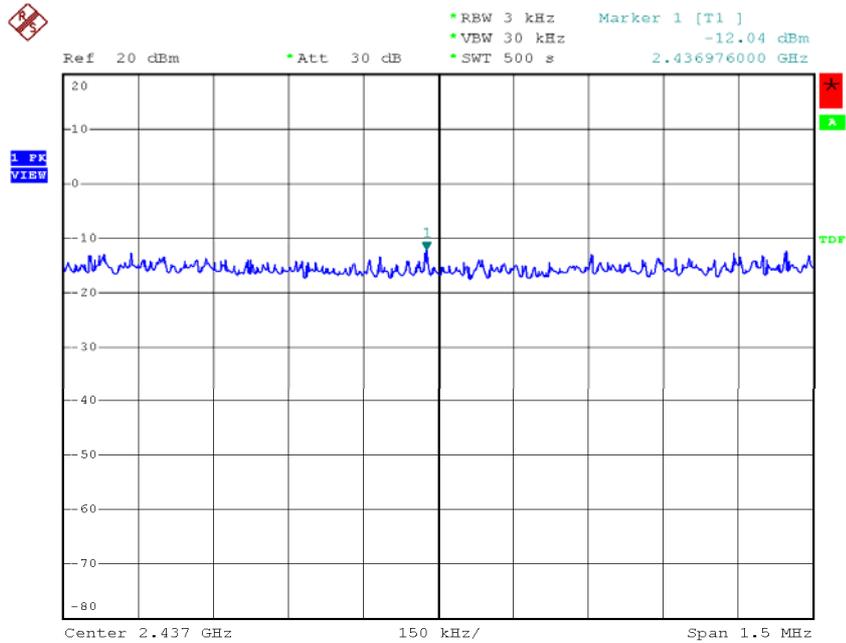


Model No.: IP1006GB, Modulation Standard: 802.11b (11Mbps), TX1
Channel: 01



Date: 5.NOV.2008 10:35:02

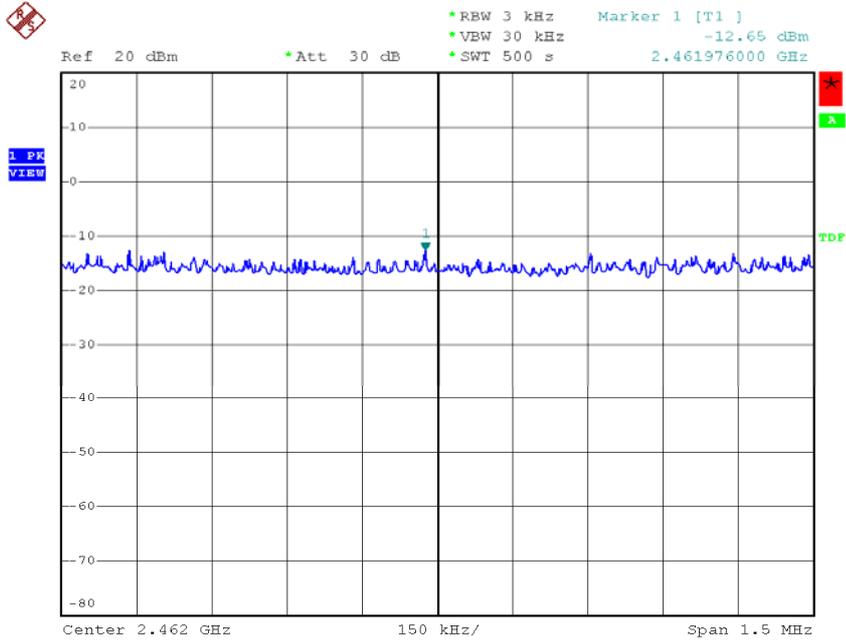
Model No.: IP1006GB, Modulation Standard: 802.11b (11Mbps), TX1
Channel: 06



Date: 5.NOV.2008 10:54:52

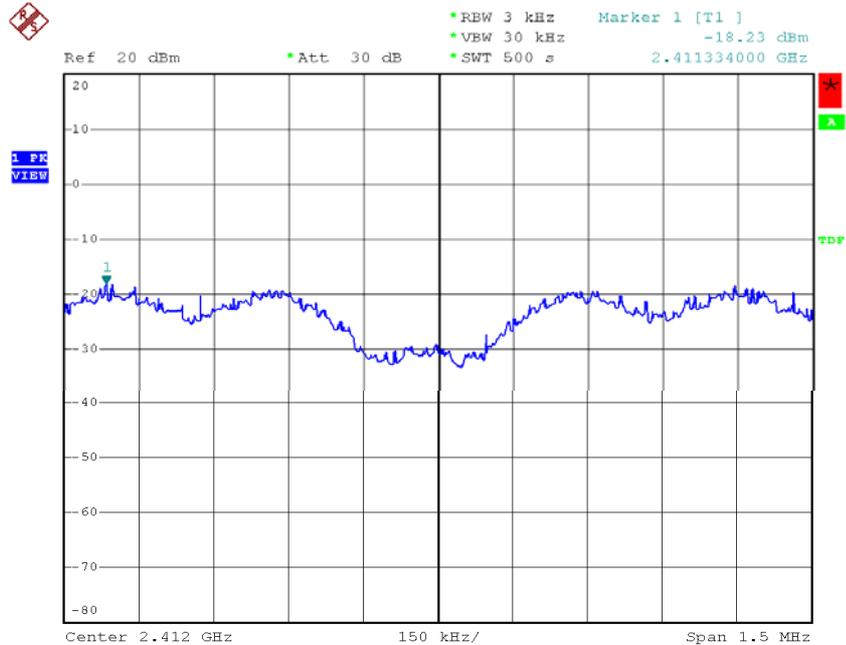


Model No.: IP1006GB, Modulation Standard: 802.11b (11Mbps), TX1
Channel: 11



Date: 5.NOV.2008 11:15:12

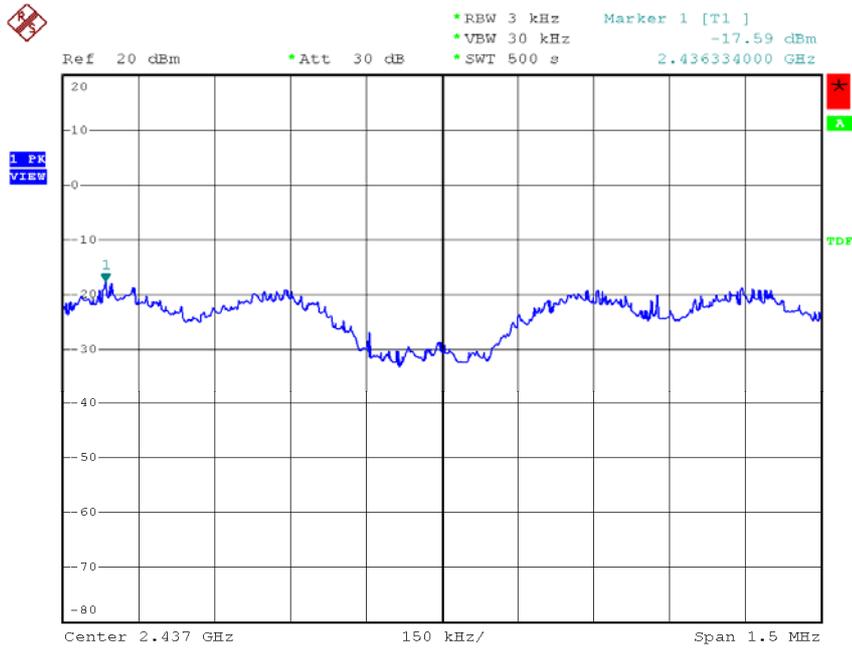
Model No.: IP1006GB, Modulation Standard: 802.11g (54Mbps), TX1
Channel: 01



Date: 5.NOV.2008 11:40:50

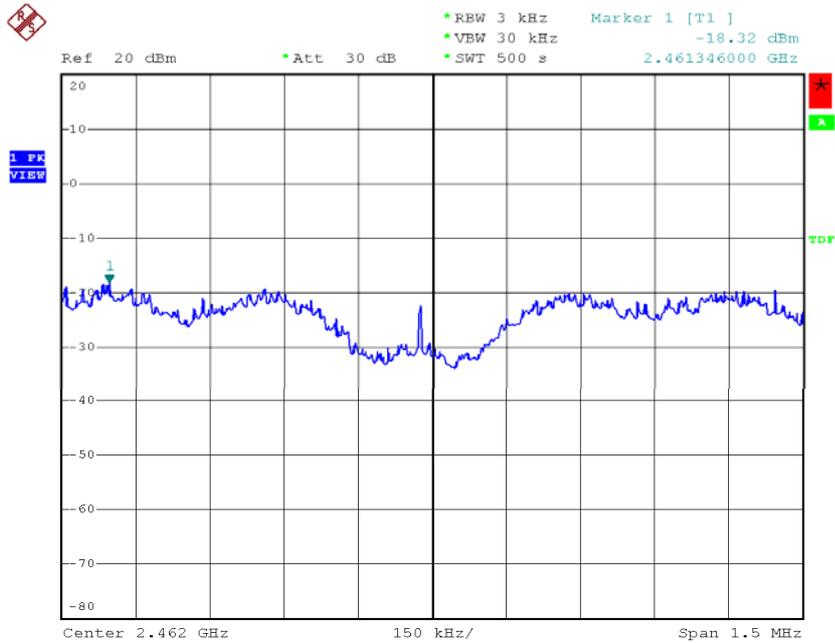


Model No.: IP1006GB, Modulation Standard: 802.11g (54Mbps), TX1
Channel: 06



Date: 5.NOV.2008 12:01:46

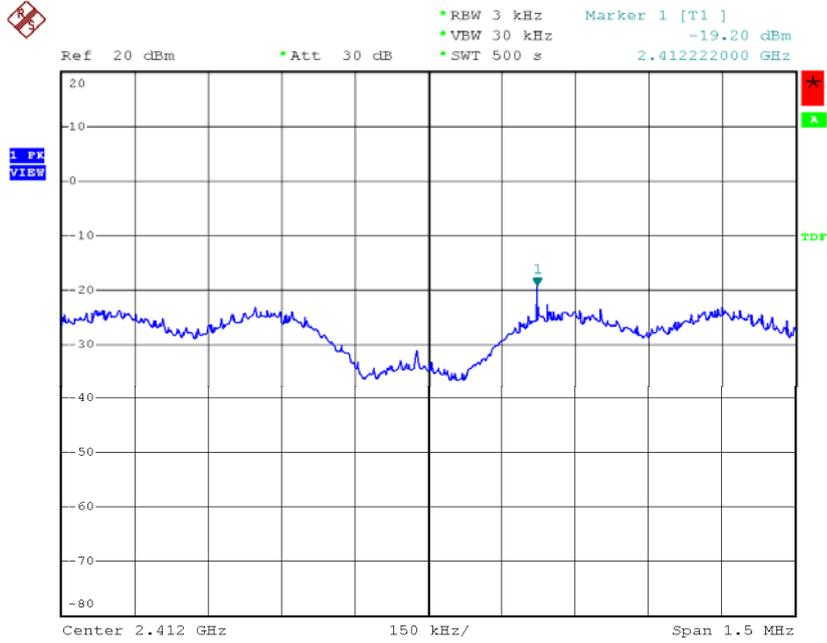
Model No.: IP1006GB, Modulation Standard: 802.11g (54Mbps), TX1
Channel: 11



Date: 5.NOV.2008 12:07:56

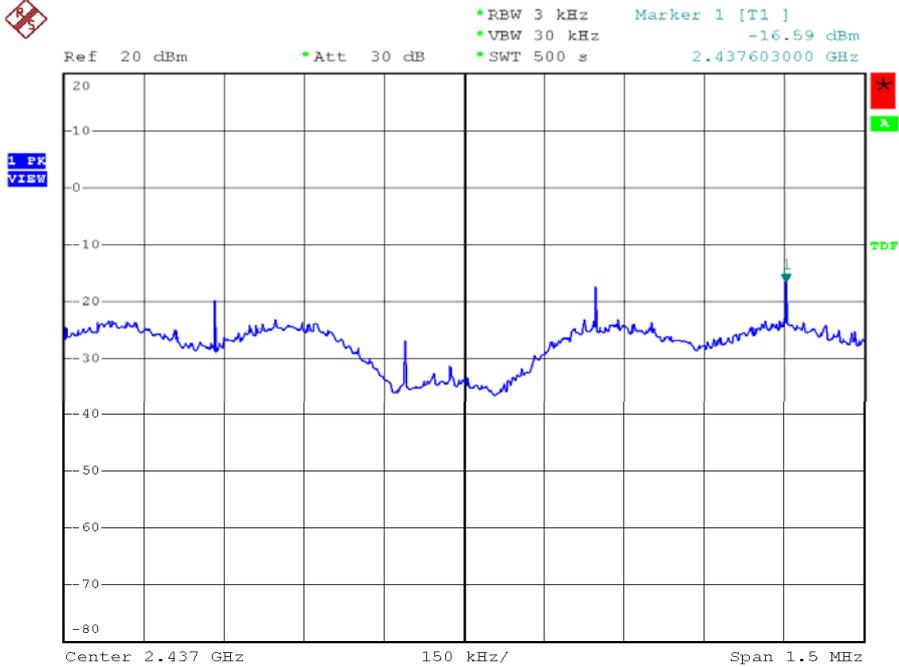


Model No.: IP1006GB, Modulation Standard: 802.11n HT20 (130Mbps), TX0
Channel: 01



Date: 5.NOV.2008 16:04:05

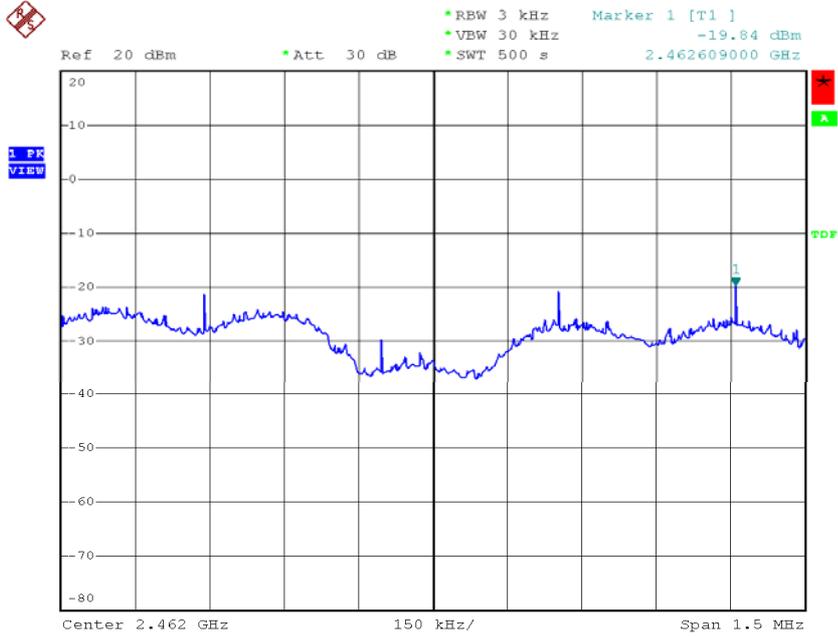
Model No.: IP1006GB, Modulation Standard: 802.11n HT20 (130Mbps), TX0
Channel: 06



Date: 5.NOV.2008 17:24:30

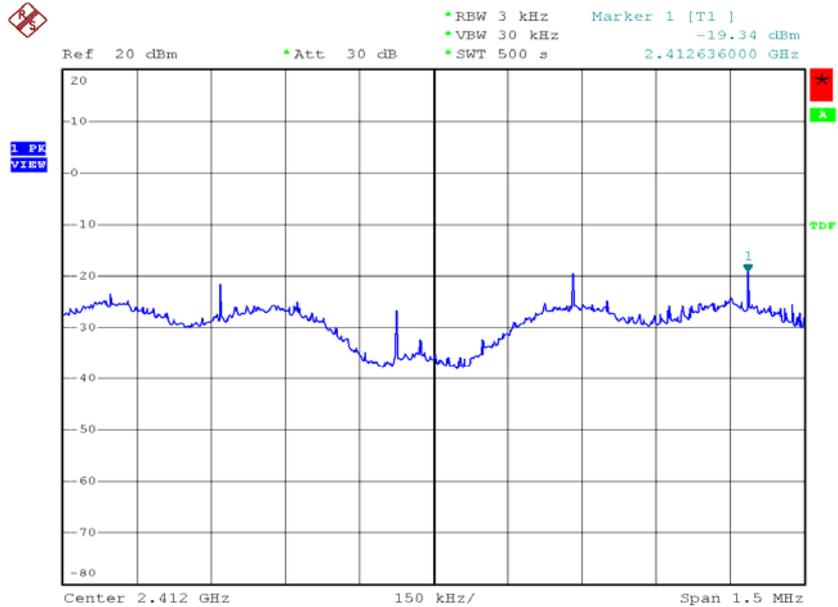


Model No.: IP1006GB, Modulation Standard: 802.11n HT20 (130Mbps), TX0
Channel: 11



Date: 5.NOV.2008 17:44:29

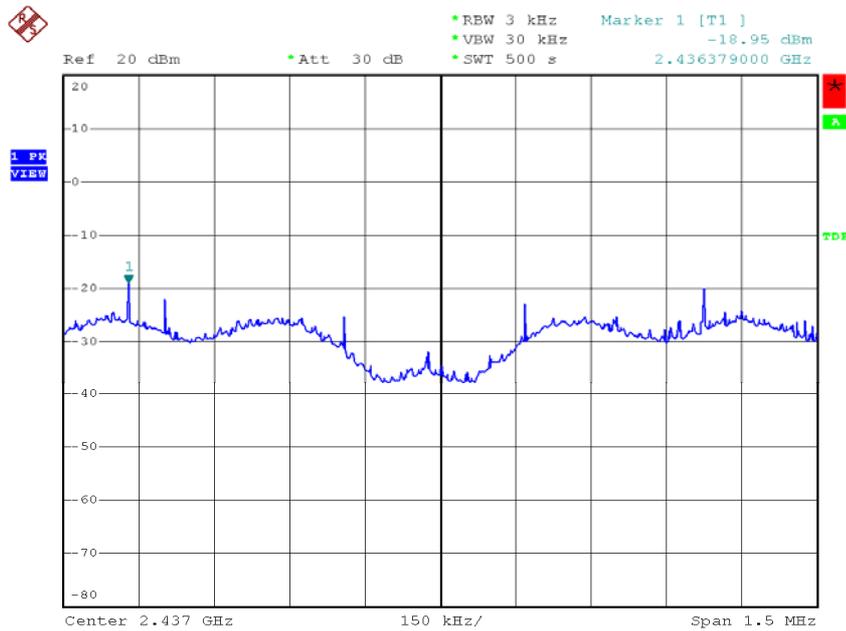
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Channel: 01



Date: 5.NOV.2008 16:29:18

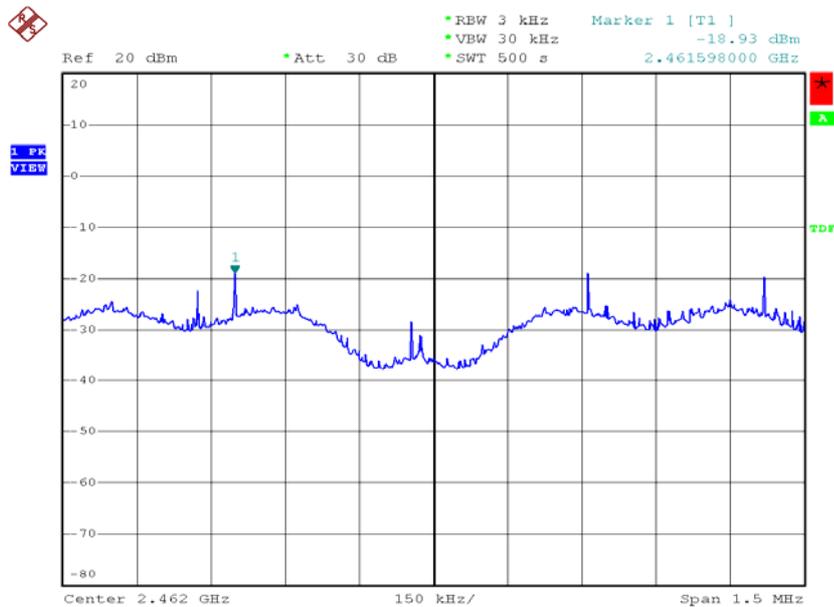


Model No.: IP1006GB, Modulation Standard: 802.11n HT20 (130Mbps), TX1
Channel: 06



Date: 5.NOV.2008 17:05:05

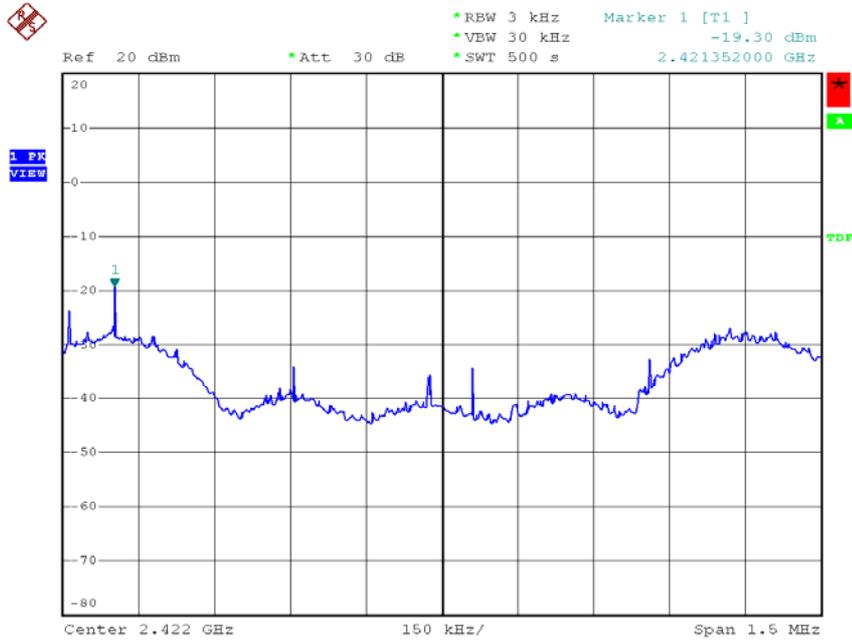
Model No.: IP1006GB, Modulation Standard: 802.11n HT20 (130Mbps), TX1
Channel: 11



Date: 5.NOV.2008 18:07:14

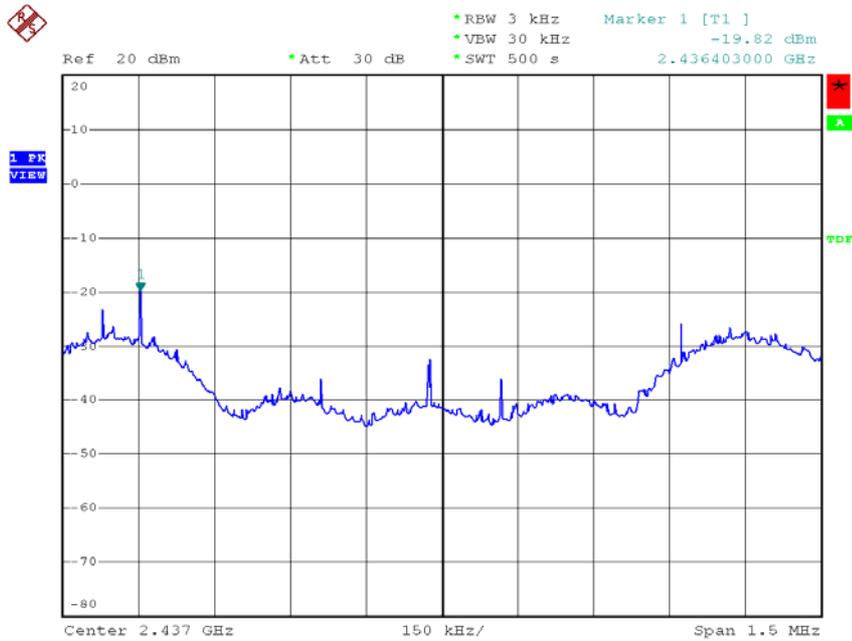


Model No.: IP1006GB, Modulation Standard: 802.11n HT40 (270Mbps), TX0
Channel: 03



Date: 5.NOV.2008 18:49:31

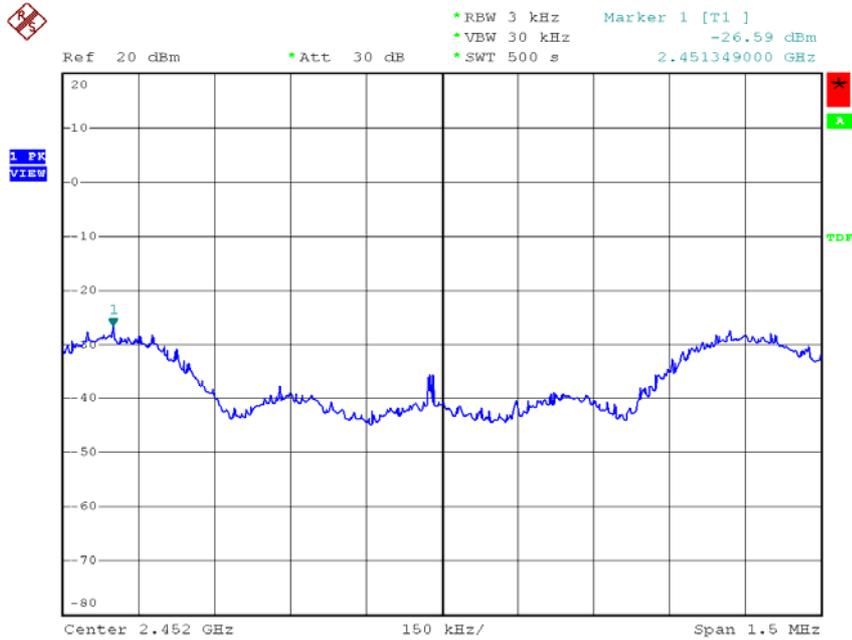
Model No.: IP1006GB, Modulation Standard: 802.11n HT40 (270Mbps), TX0
Channel: 06



Date: 5.NOV.2008 19:08:57

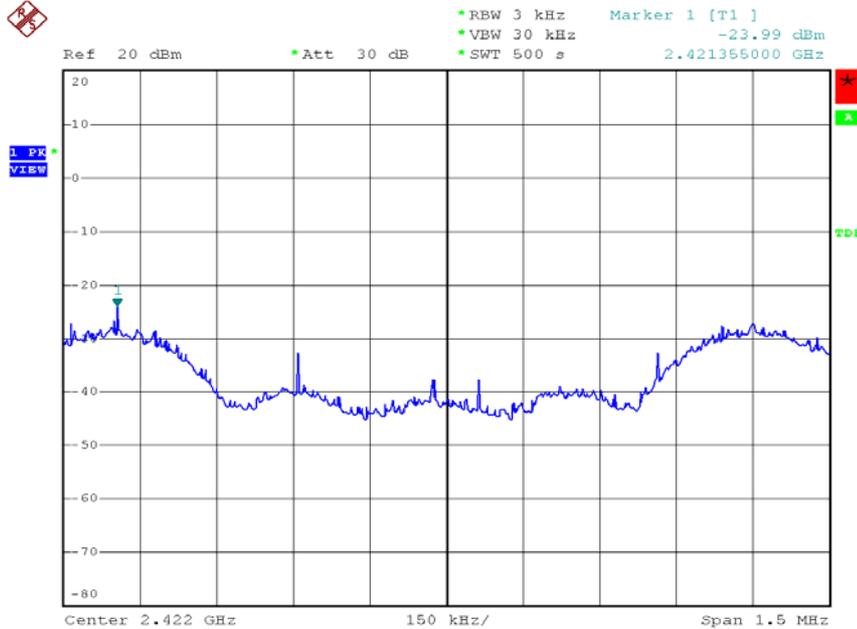


Model No.: IP1006GB, Modulation Standard: 802.11n HT40 (270Mbps), TX0
Channel: 09



Date: 5.NOV.2008 19:30:57

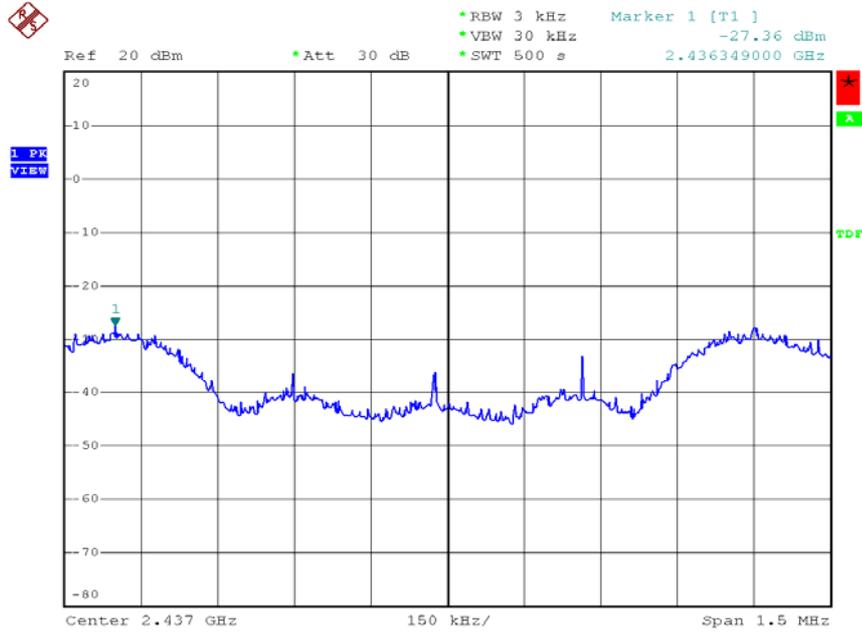
Model No.: IP1006GB, Modulation Standard: 802.11n HT40 (270Mbps), TX1
Channel: 03



Date: 5.NOV.2008 18:31:26

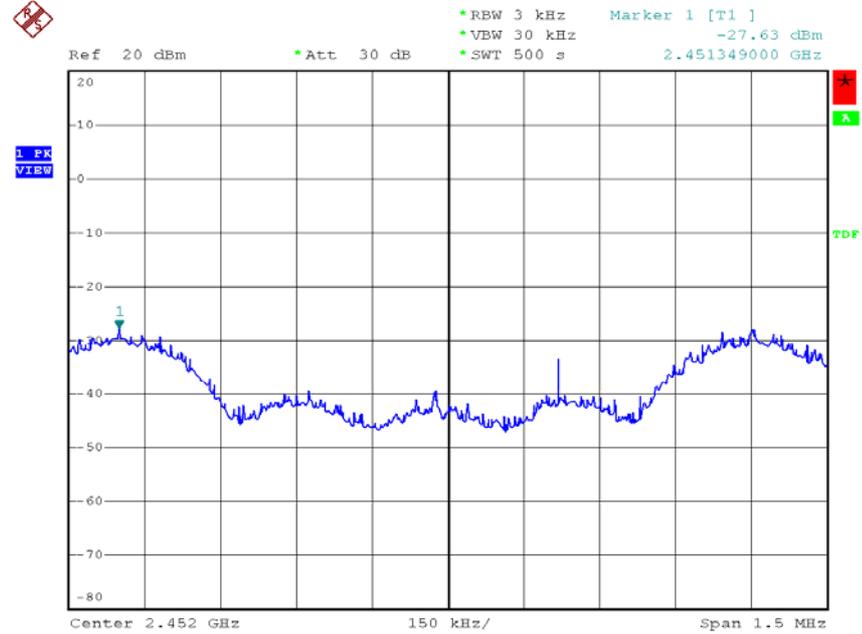


Model No.: IP1006GB, Modulation Standard: 802.11n HT40 (270Mbps), TX1
Channel: 06



Date: 5.NOV.2008 19:17:08

Model No.: IP1006GB, Modulation Standard: 802.11n HT40 (270Mbps), TX1
Channel: 09



Date: 5.NOV.2008 19:24:53



10. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

10.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

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