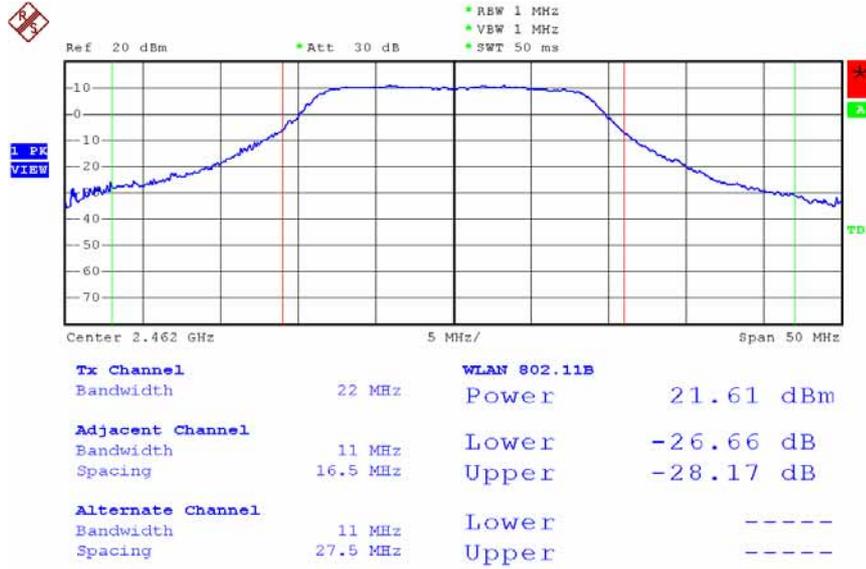
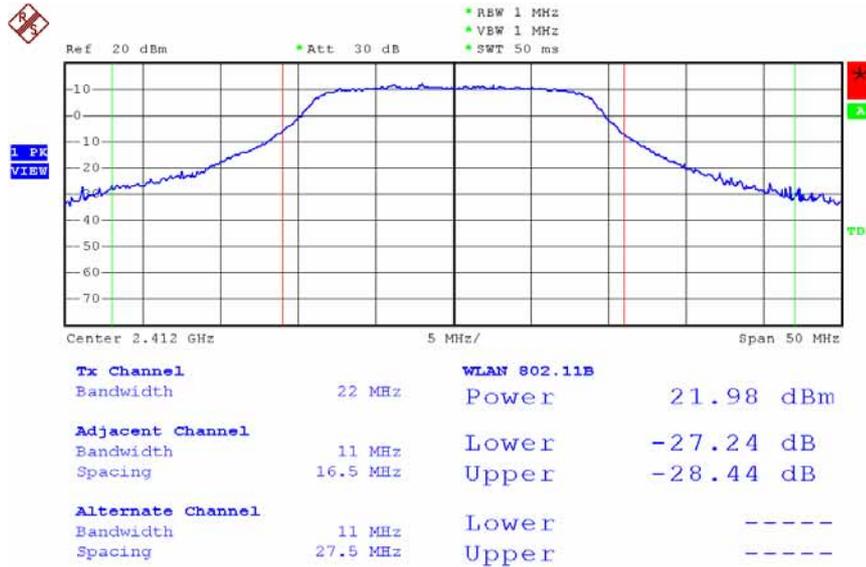


Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-L)
 Channel: 11



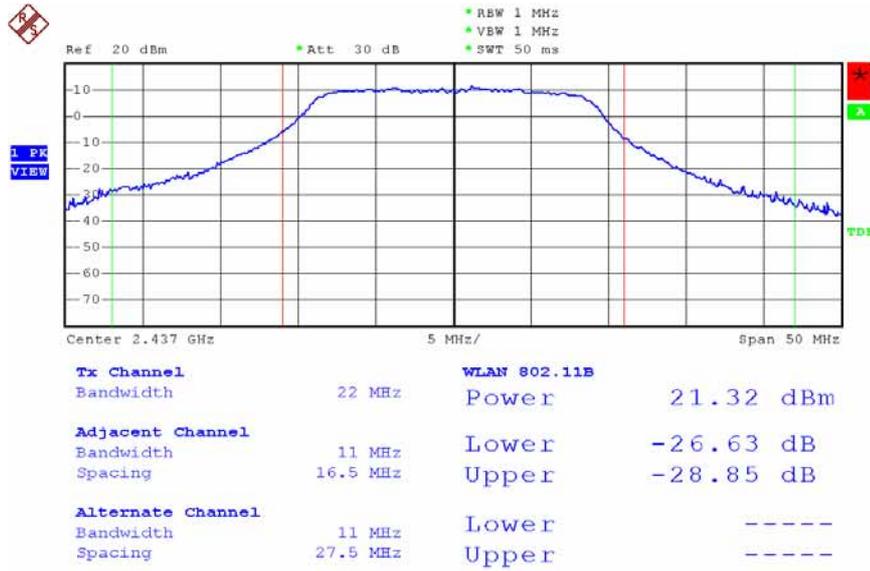
Date: 5.MAY.2008 11:59:43

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-M)
 Channel: 01



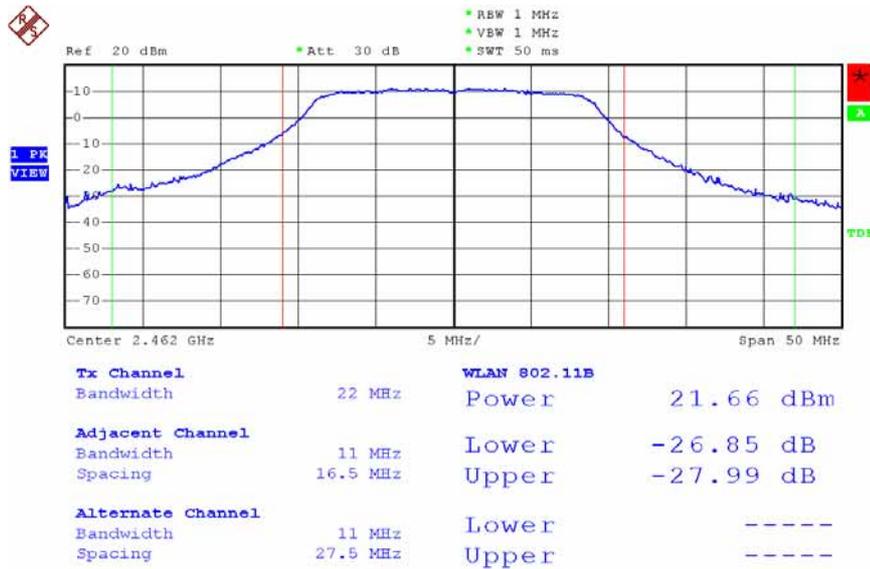
Date: 5.MAY.2008 12:00:53

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-M)
 Channel: 06



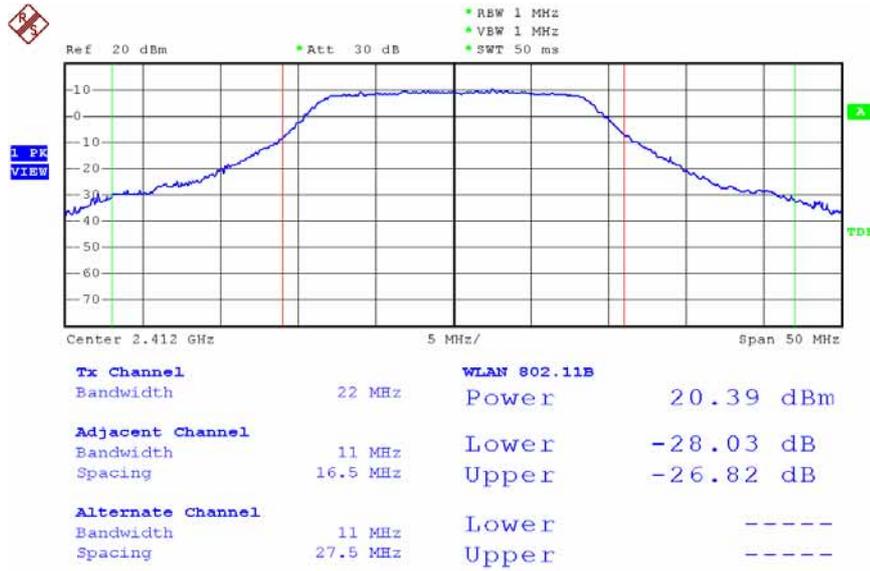
Date: 5.MAY.2008 12:01:40

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-M)
 Channel: 11



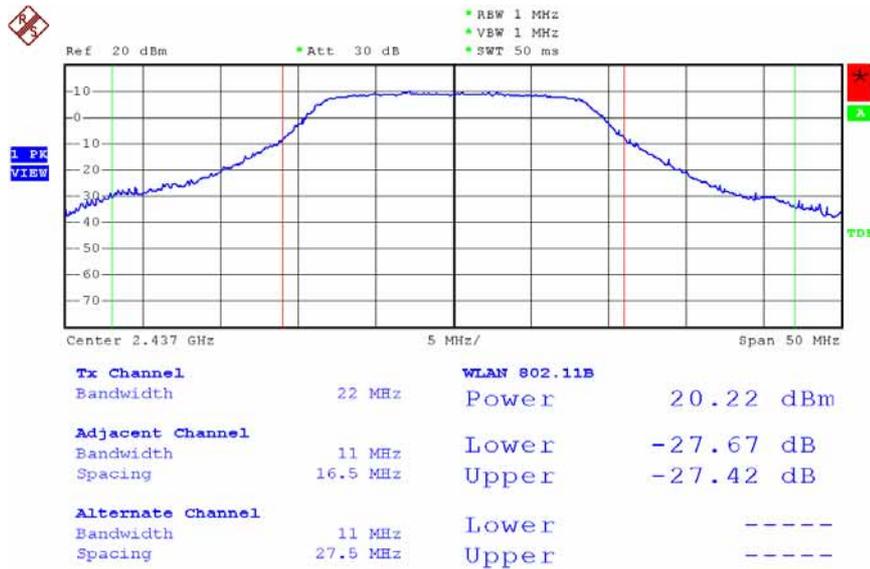
Date: 5.MAY.2008 12:02:44

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-R)
 Channel: 01



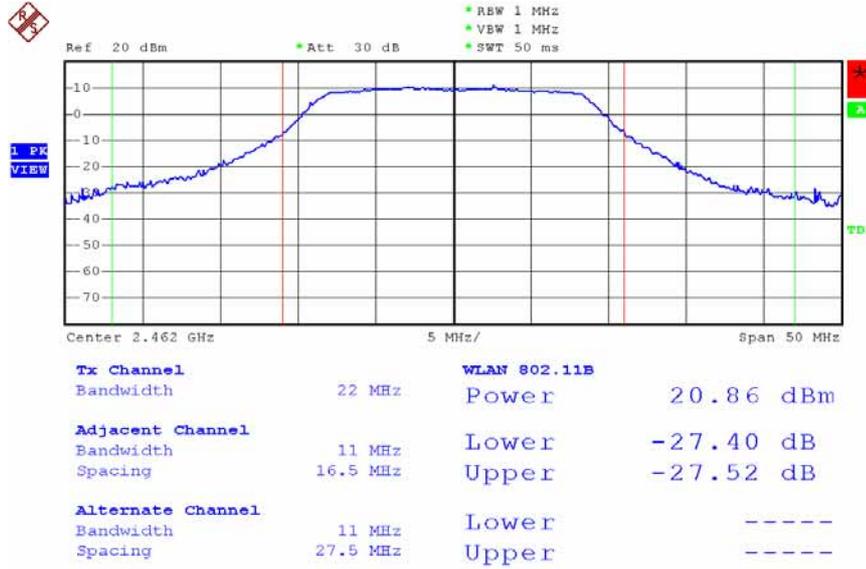
Date: 5.MAY.2008 12:04:13

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-R)
 Channel: 06



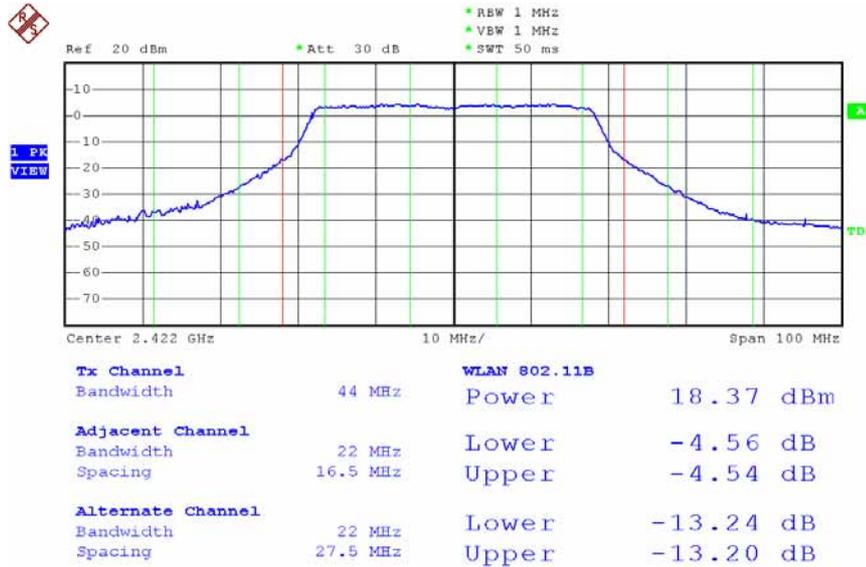
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Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-R)
 Channel: 11



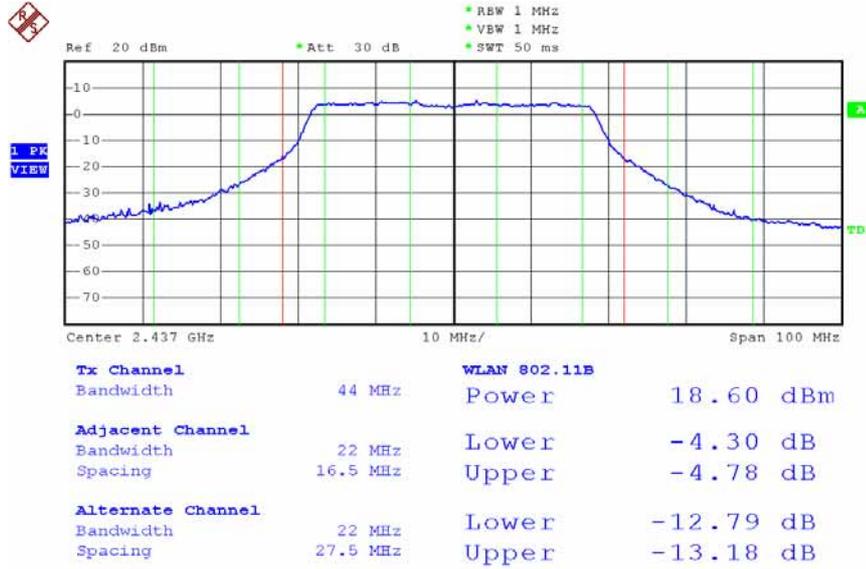
Date: 5.MAY.2008 12:05:37

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-L)
 Channel: 03



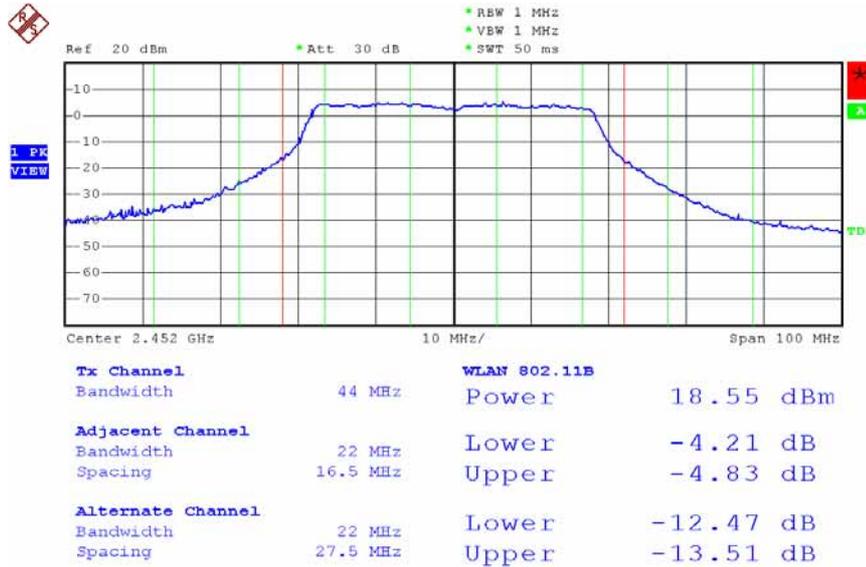
Date: 5.MAY.2008 12:14:36

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-L)
 Channel: 06



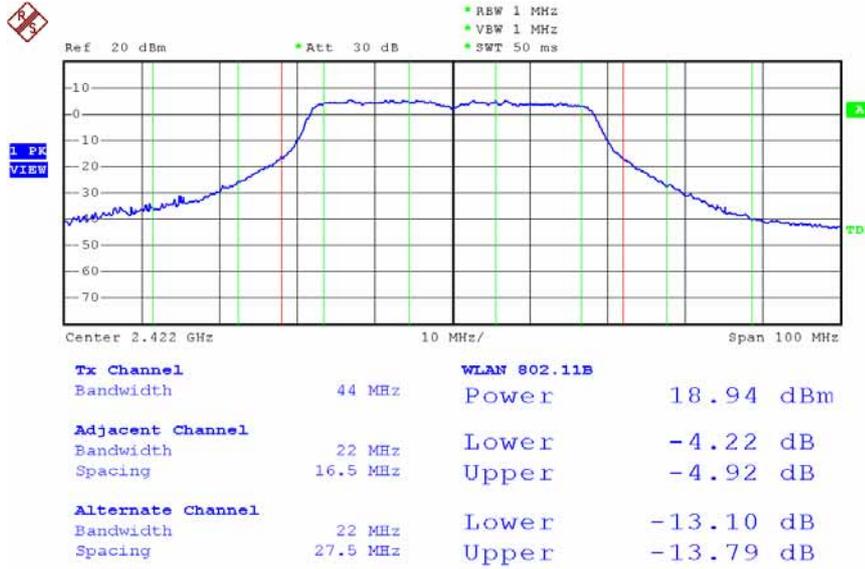
Date: 5.MAY.2008 12:16:10

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-L)
 Channel: 09



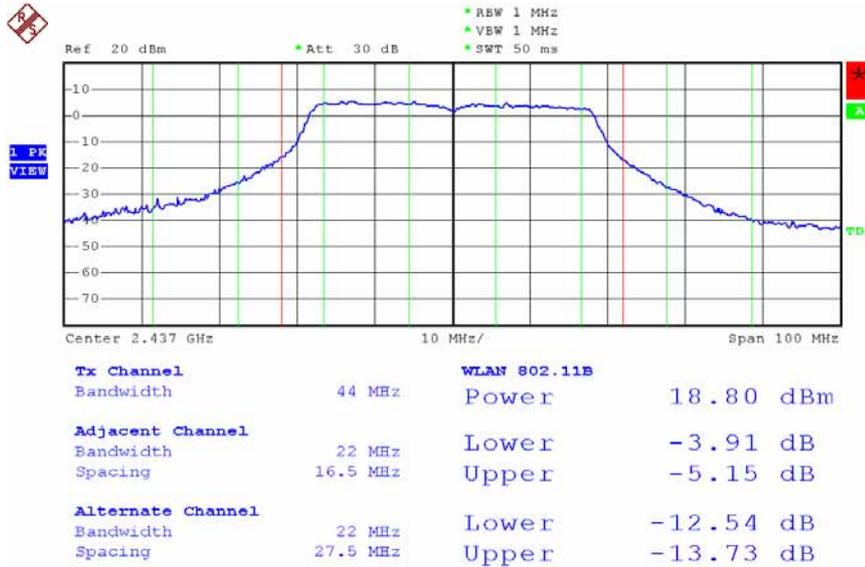
Date: 5.MAY.2008 12:17:01

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-M)
 Channel: 03



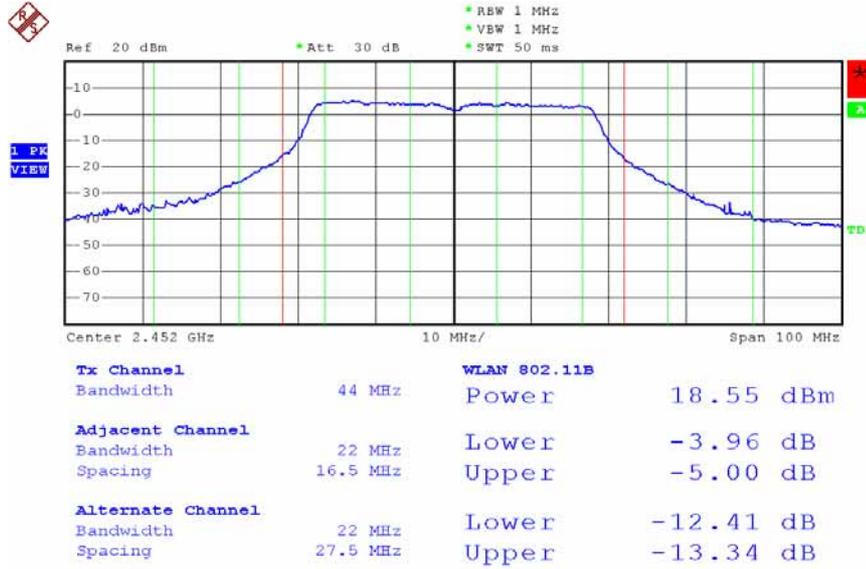
Date: 5.MAY.2008 12:11:48

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-M)
 Channel: 06



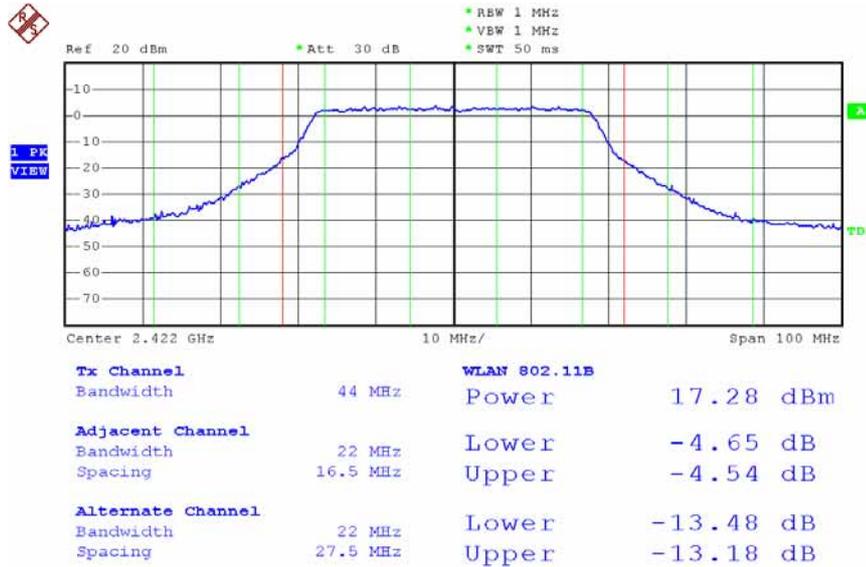
Date: 5.MAY.2008 12:12:52

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-M)
 Channel: 09



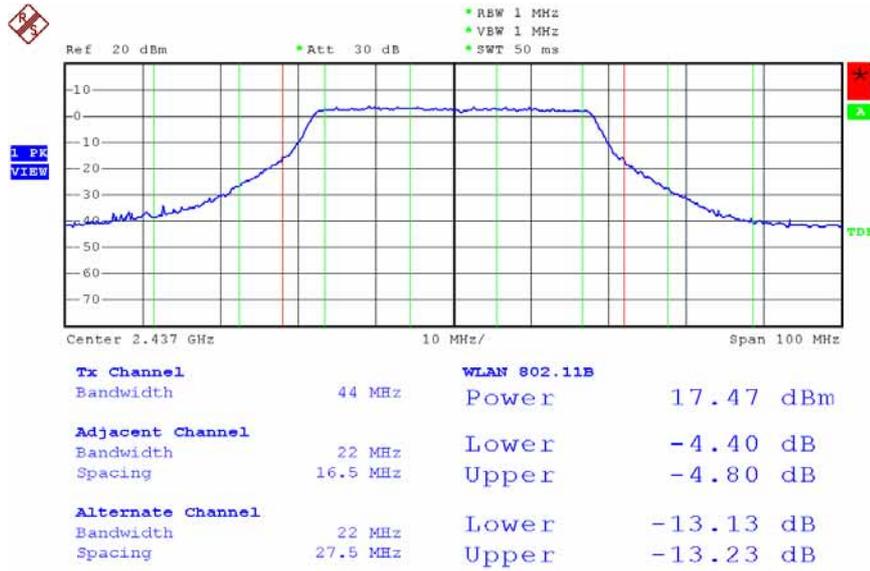
Date: 5.MAY.2008 12:13:32

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-R)
 Channel: 03



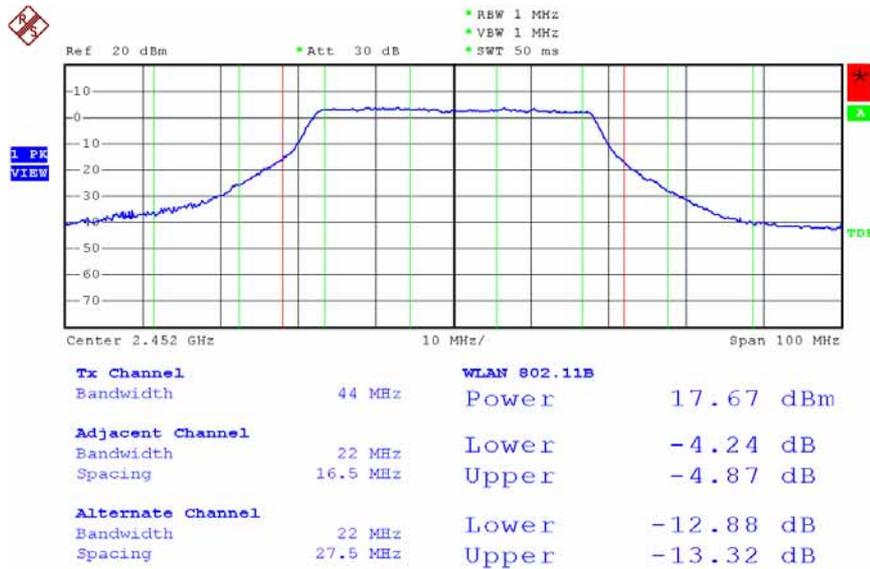
Date: 5.MAY.2008 12:07:33

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-R)
 Channel: 06



Date: 5.MAY.2008 12:08:29

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-R)
 Channel: 09



Date: 5.MAY.2008 12:10:29

8. Band Edges Measurement (For 802.11b/g device)

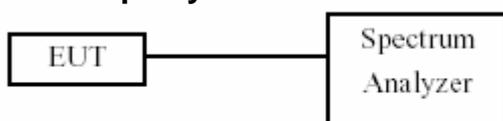
8.1 Test Limit

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

8.2 Test Procedure :

- The transmitter output was connected to the spectrum analyzer via a low lose cable.
- Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- The band edges was measured and recorded.

8.3 Test Setup Layout



8.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2008/02/22	2009/02/21

8.5 Test Result and Data

- (1) Modulation Standard: IEEE 802.11b (11Mbps), ANT-L

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.80	-45.91
11	2462	2502.90	-57.07

- (2) Modulation Standard: IEEE 802.11g (6Mbps), ANT-L

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.60	-40.08
11	2462	14065.00	-53.65

- (3) Modulation Standard: IEEE 802.11b (11Mbps), ANT-M

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.80	-45.23
11	2462	2508.50	-56.48

- (4) Modulation Standard: IEEE 802.11g (6Mbps), ANT-M

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.80	-39.19
11	2462	2513.70	-55.47

- (5) Modulation Standard: IEEE 802.11b (11Mbps), ANT-R

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.80	-45.26
11	2462	2492.50	-55.72

- (6) Modulation Standard: IEEE 802.11g (6Mbps), ANT-R

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.20	-35.91
11	2462	2514.90	-54.29

- (7) Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel Frequency		maximum value in frequency and measurement value			
		ANT-L		ANT-R	
		MHz	dBm	MHz	dBm
01	2412	2399.60	-35.80	2399.60	-35.93
11	2462	2484.50	-53.45	2484.50	-55.08

- (8) Modulation Standard: IEEE 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel Frequency		maximum value in frequency and measurement value			
		TX0		TX1	
		MHz	dBm	MHz	dBm
03	2422	2399.80	-38.85	2399.80	-38.88
09	2452	2484.90	-52.34	2485.90	-55.34

- (9) Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps), ANT-ALL

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

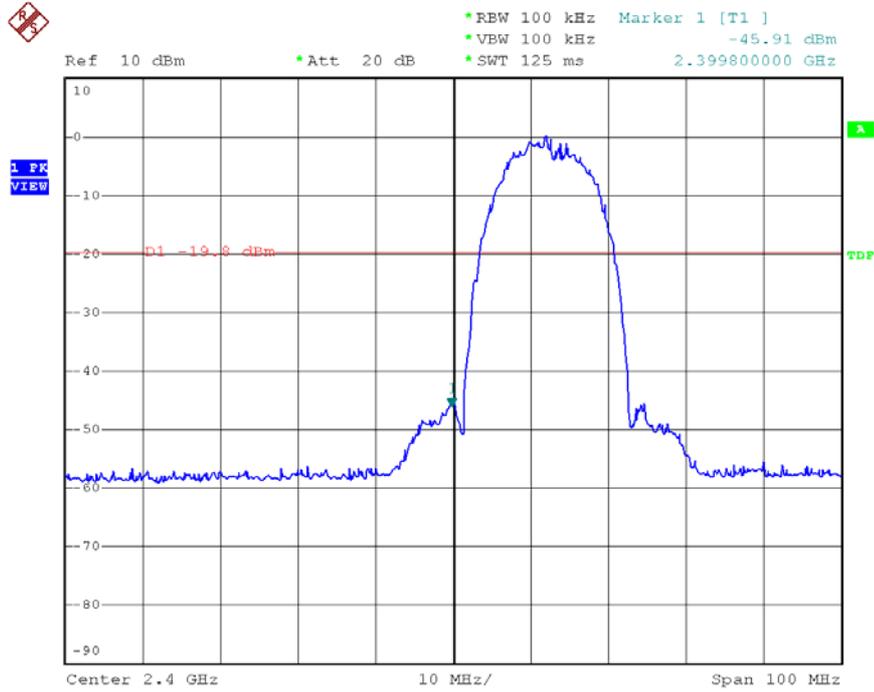
Channel Frequency		maximum value in frequency and measurement value					
		ANT-L		ANT-M		ANT-R	
		MHz	dBm	MHz	dBm	MHz	dBm
01	2412	2399.60	-34.25	2399.60	-33.67	2399.60	-34.68
11	2462	2483.90	-53.35	2484.30	-52.35	2483.93	-52.01

- (10) Modulation Standard: IEEE 802.11gn, HT40 (13.5Mbps), ANT-ALL

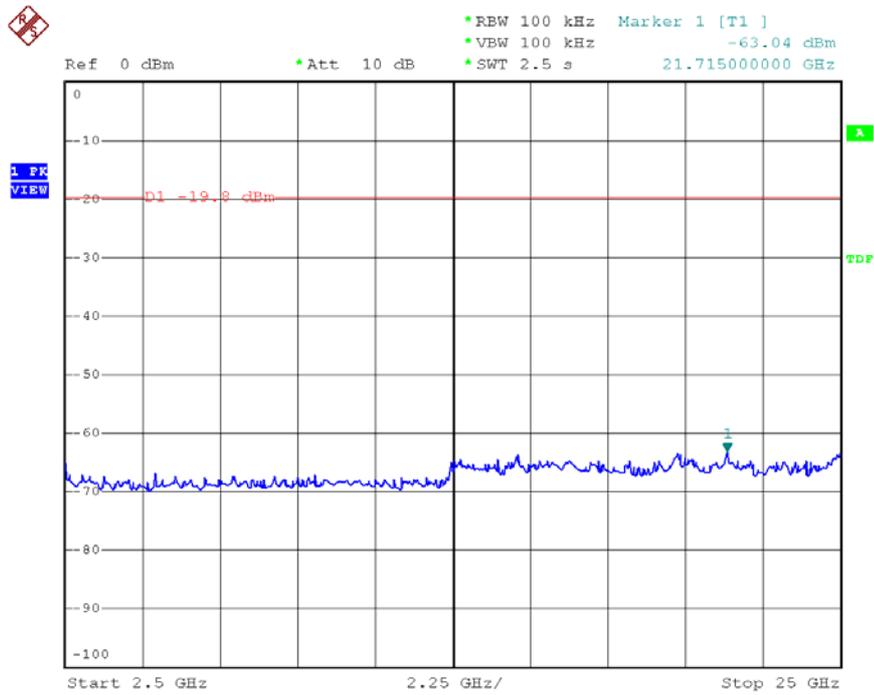
Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel Frequency		maximum value in frequency and measurement value					
		ANT-L		ANT-M		ANT-R	
		MHz	dBm	MHz	dBm	MHz	dBm
03	2422	2399.60	-37.30	2399.20	-36.82	2398.60	-38.55
09	2452	2483.70	-49.77	2485.70	-50.04	2492.10	-50.39

Modulation Standard: 802.11b (11Mbps), ANT-L
 Channel: 01

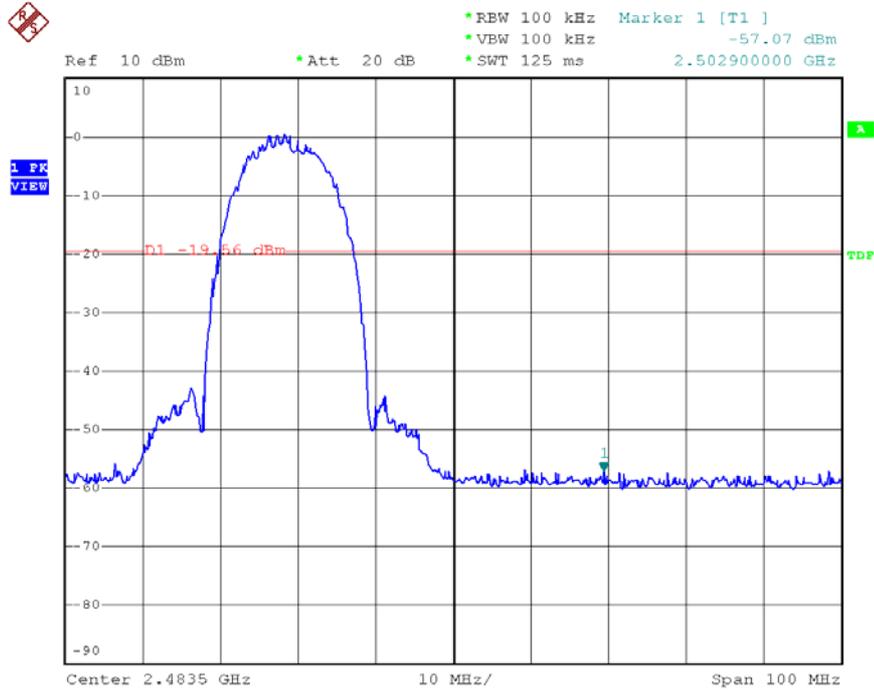


Date: 25.MAR.2008 17:55:49

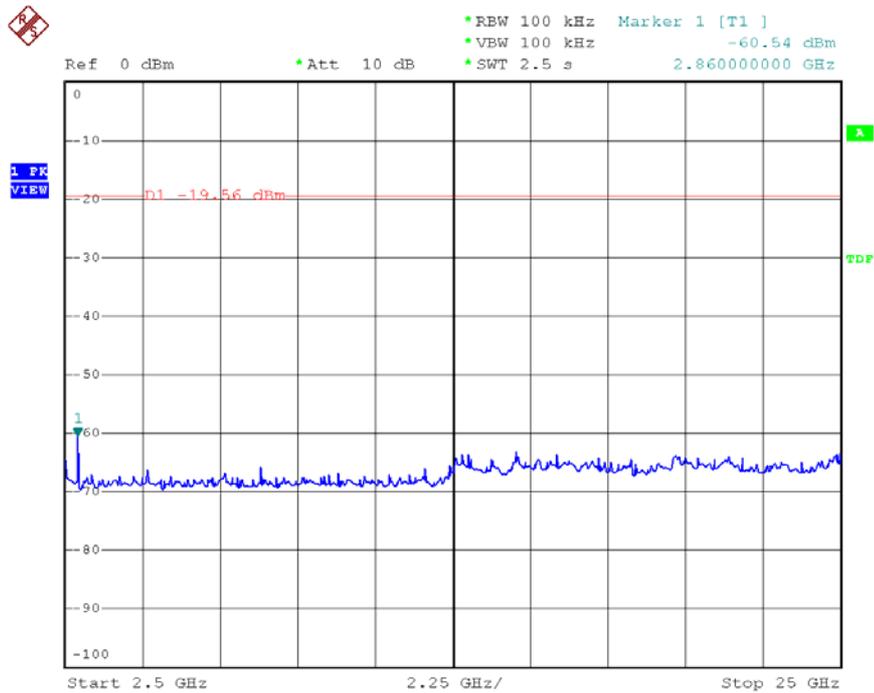


Date: 25.MAR.2008 17:56:37

Modulation Standard: 802.11b (11Mbps), ANT-L
 Channel: 11

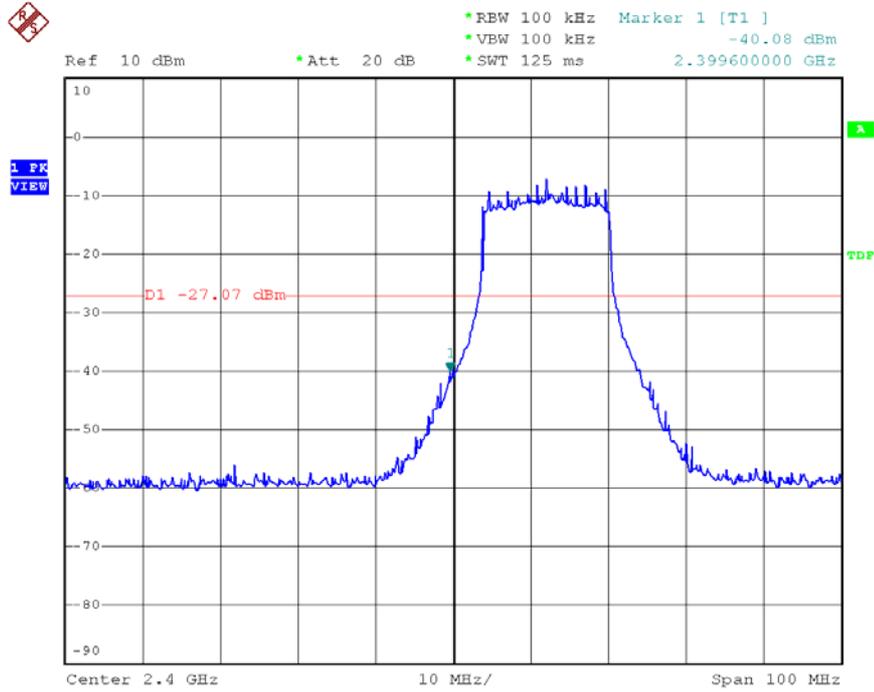


Date: 25.MAR.2008 17:52:32

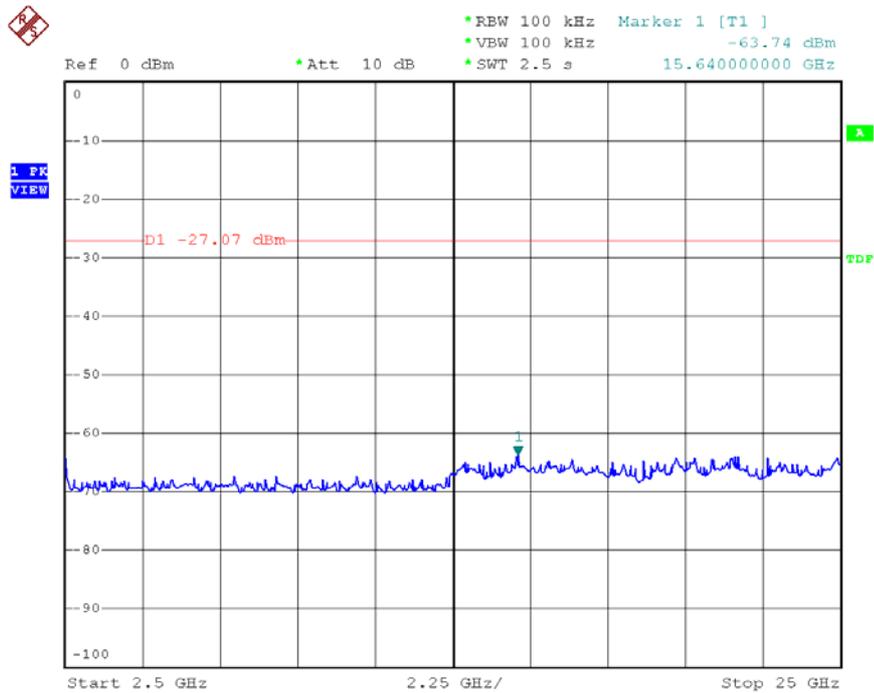


Date: 25.MAR.2008 17:53:38

Modulation Standard: 802.11g (6Mbps), ANT-L
 Channel: 01

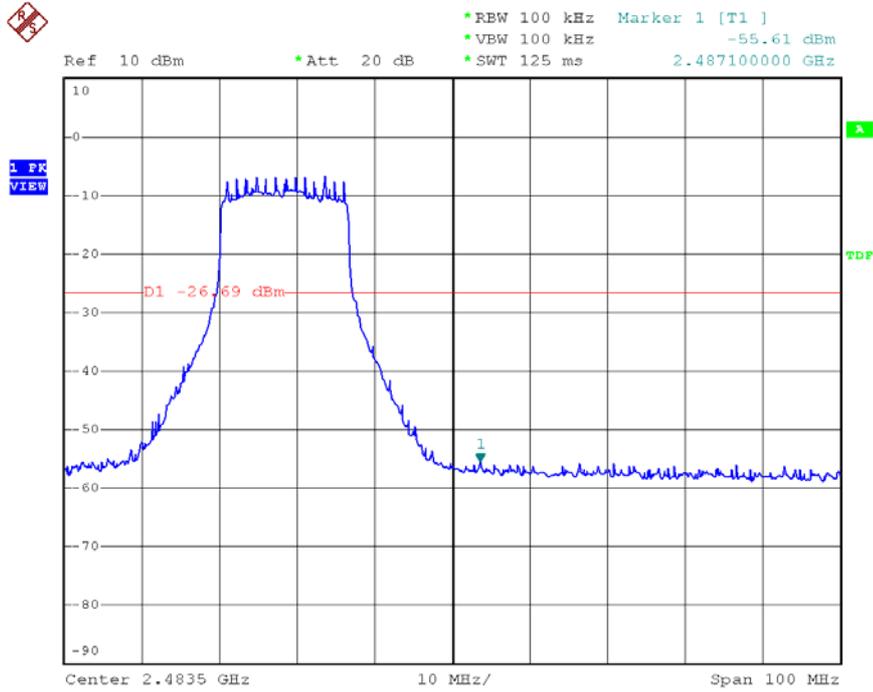


Date: 25.MAR.2008 17:57:58

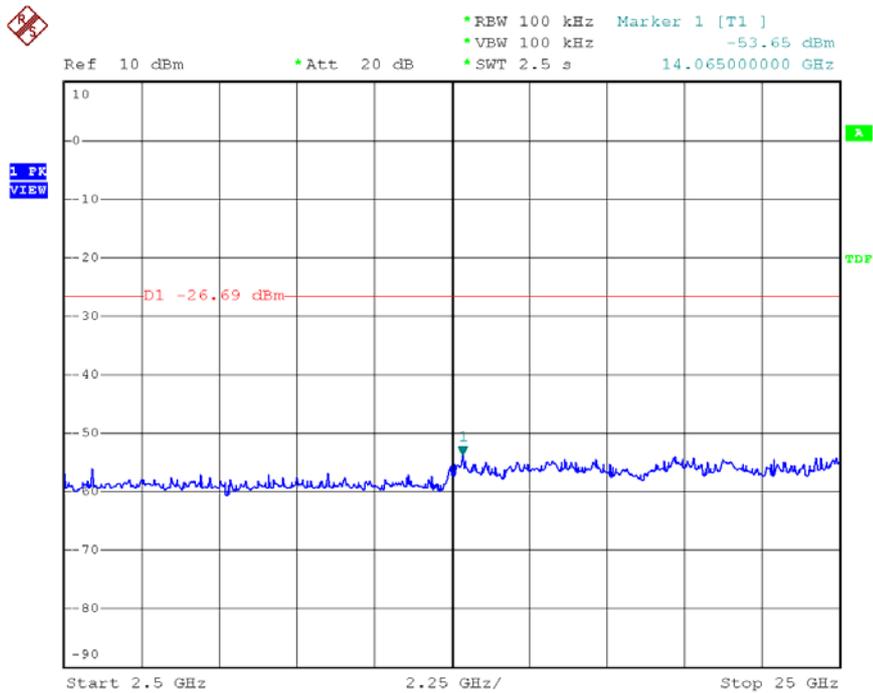


Date: 25.MAR.2008 17:58:28

Modulation Standard: 802.11g (6Mbps), ANT-L
 Channel: 11

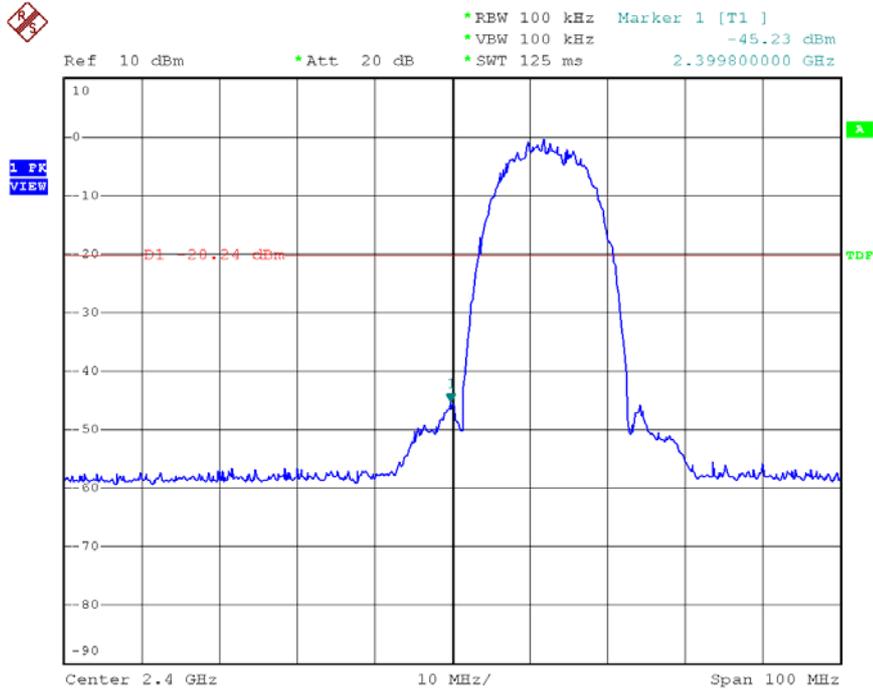


Date: 25.MAR.2008 18:00:11

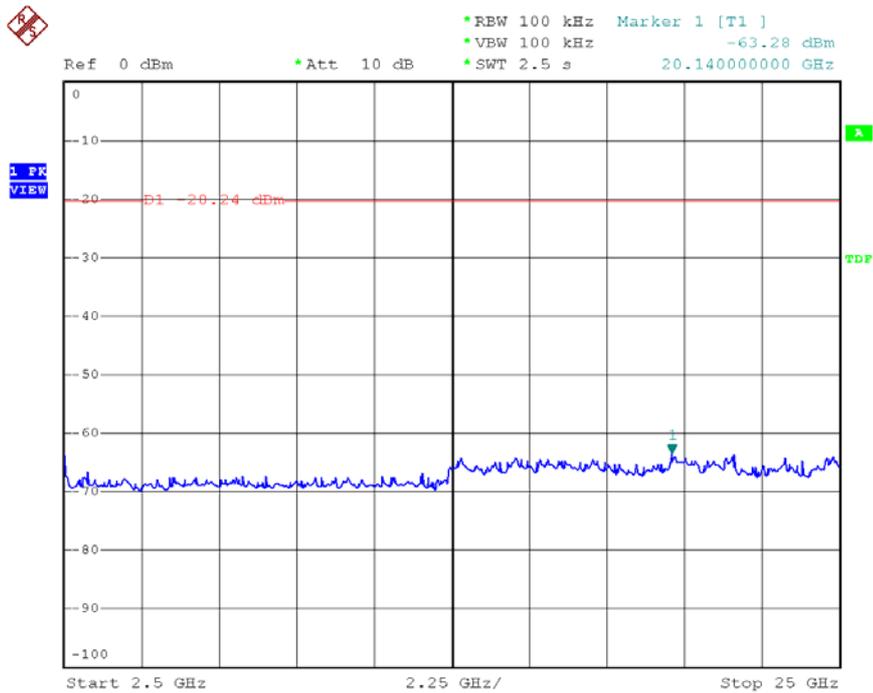


Date: 25.MAR.2008 18:00:49

Modulation Standard: 802.11b (11Mbps), ANT-M
 Channel: 01

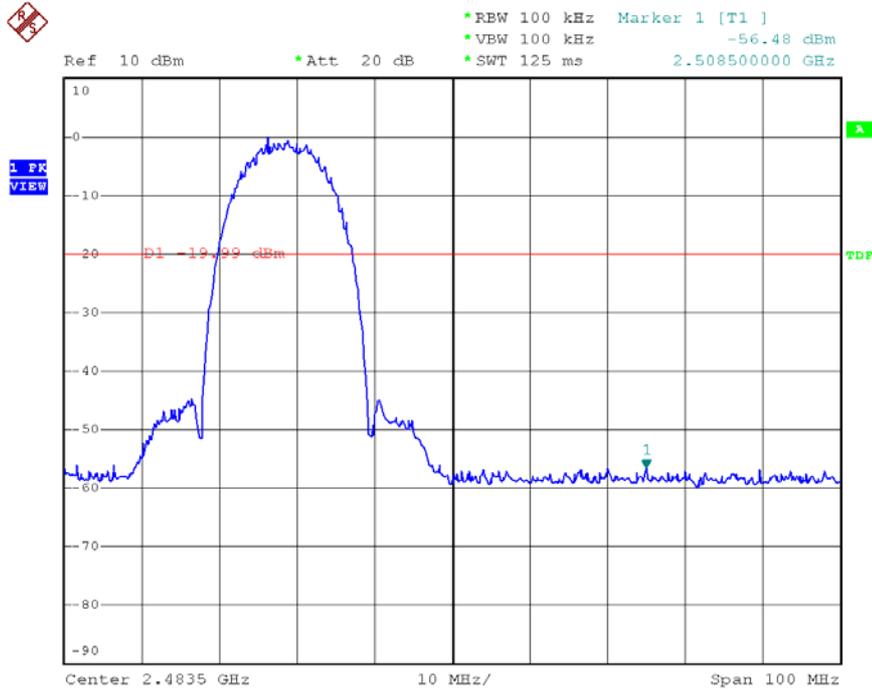


Date: 25.MAR.2008 15:38:42

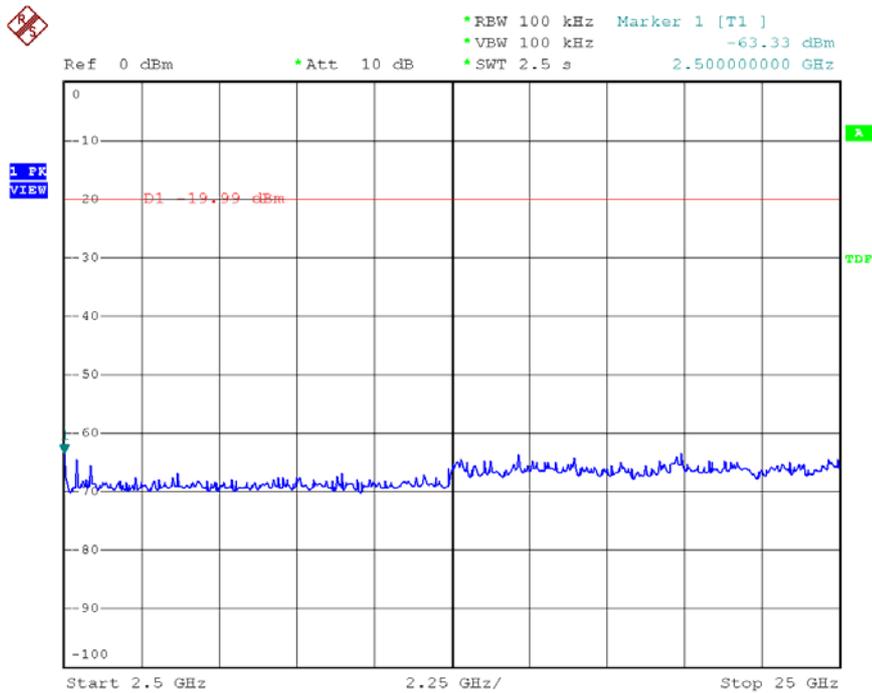


Date: 25.MAR.2008 15:39:25

Modulation Standard: 802.11b (11Mbps), ANT-M
 Channel: 11

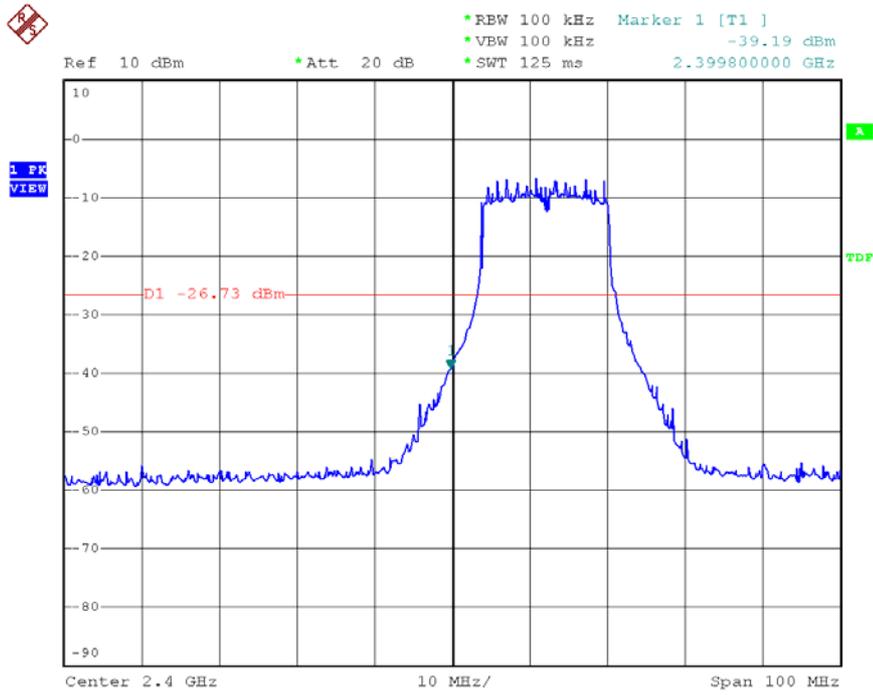


Date: 25.MAR.2008 15:35:46

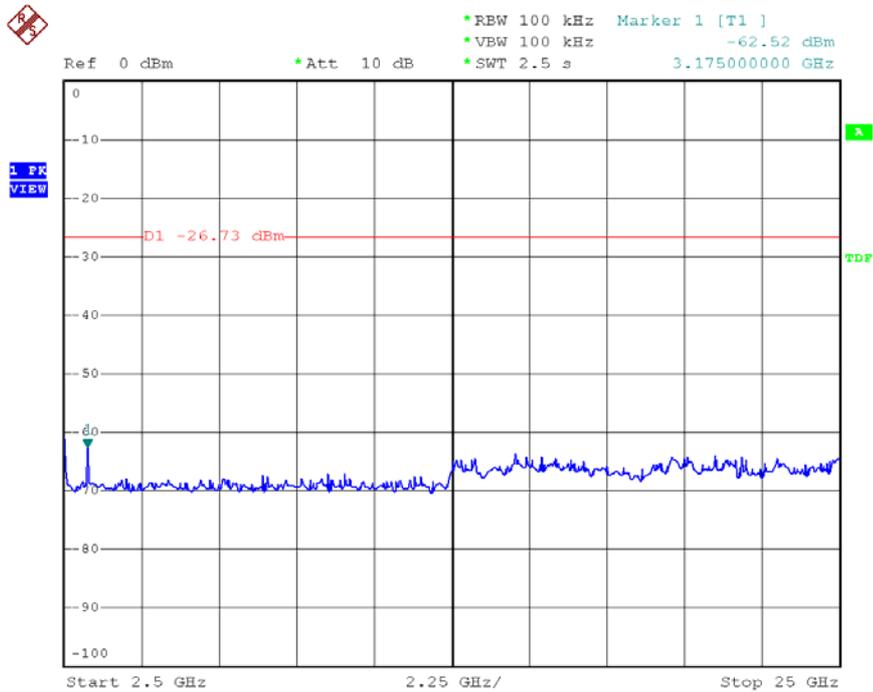


Date: 25.MAR.2008 15:36:16

Modulation Standard: 802.11g (6Mbps), ANT-M
 Channel: 01

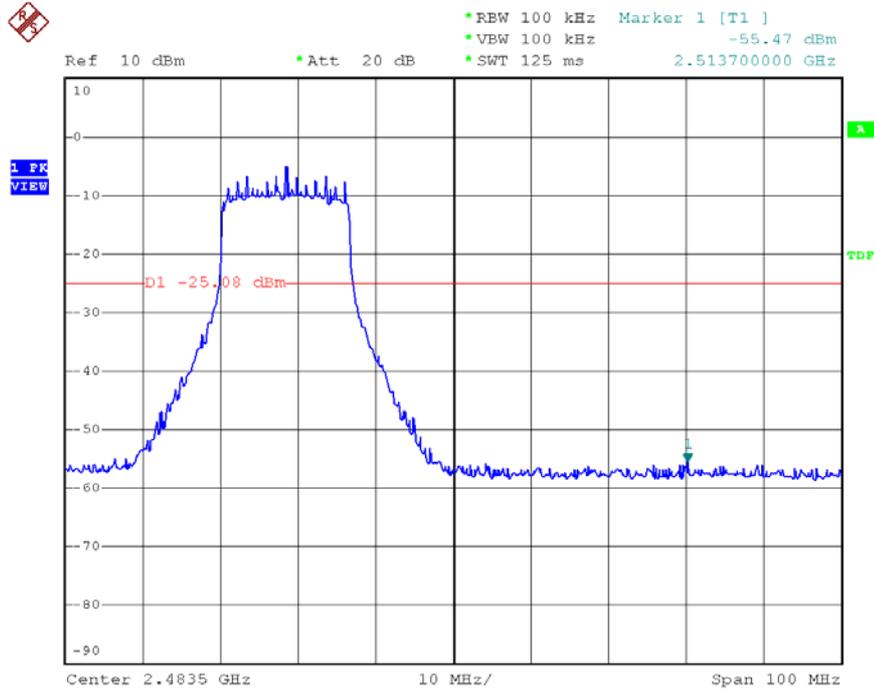


Date: 25.MAR.2008 15:40:22

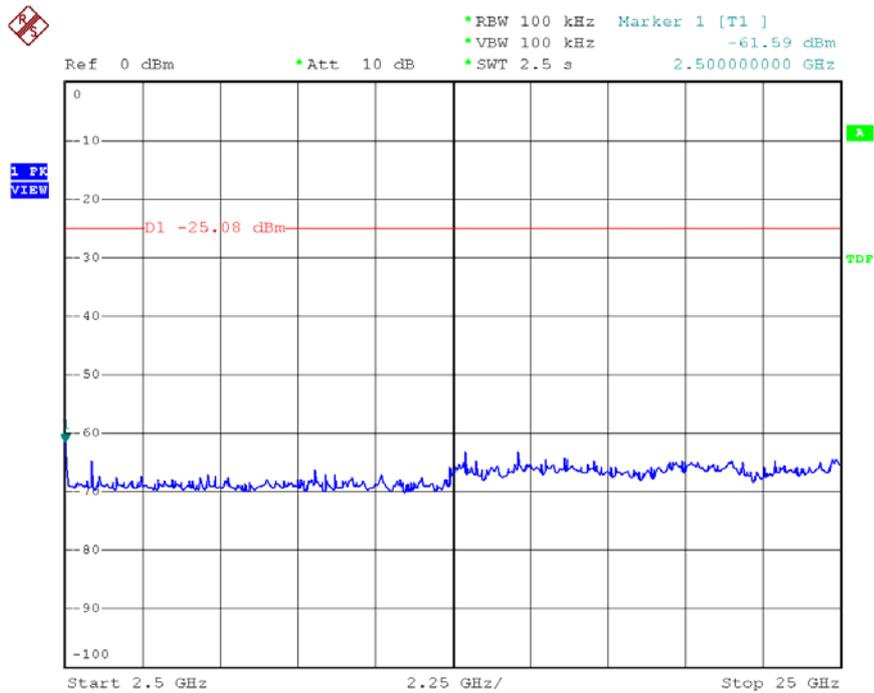


Date: 25.MAR.2008 15:40:50

Modulation Standard: 802.11g (6Mbps), ANT-M
 Channel: 11

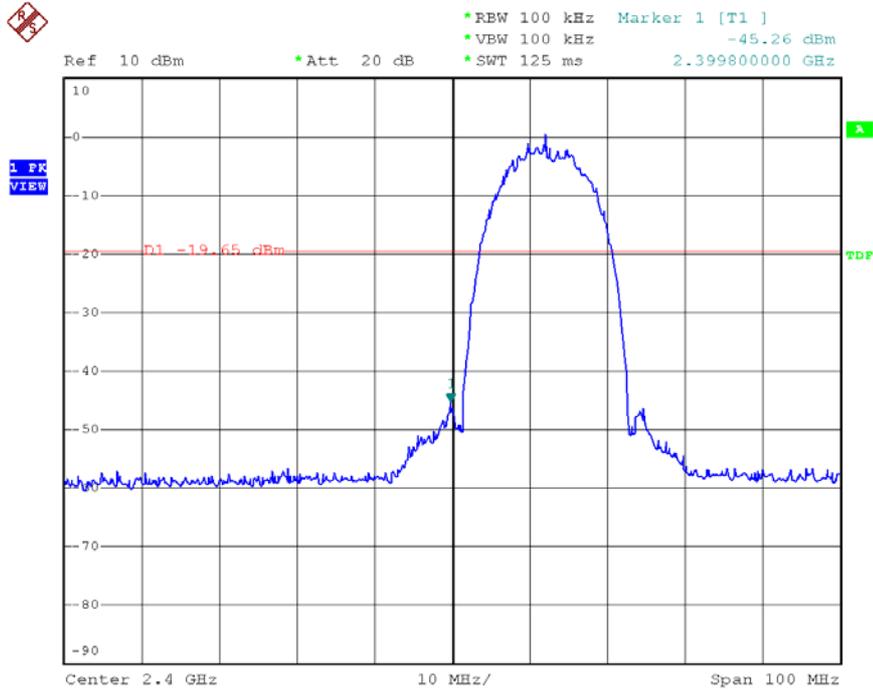


Date: 25.MAR.2008 15:41:58

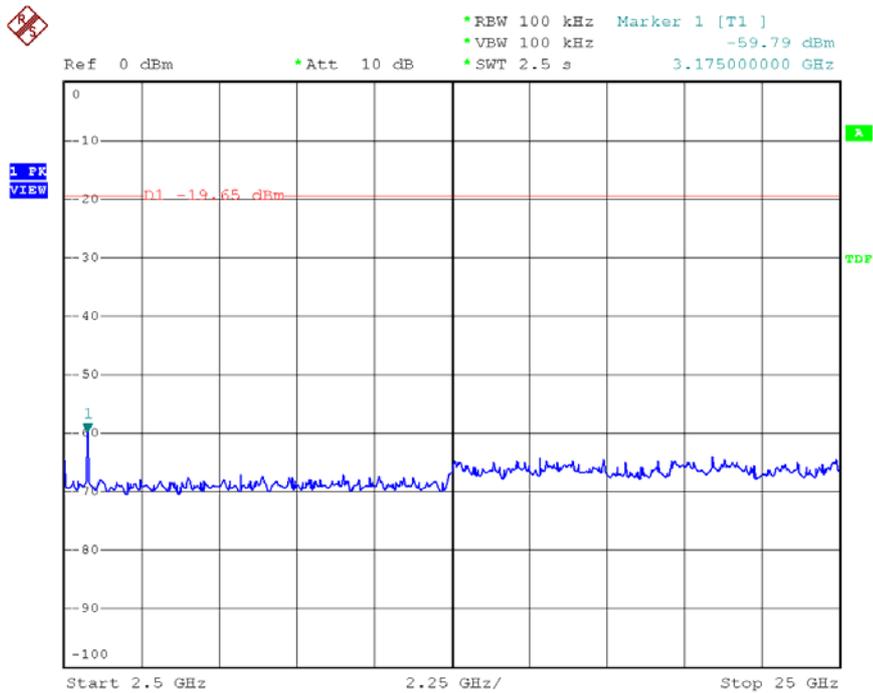


Date: 25.MAR.2008 15:42:26

Modulation Standard: 802.11b (11Mbps), ANT-R
 Channel: 01

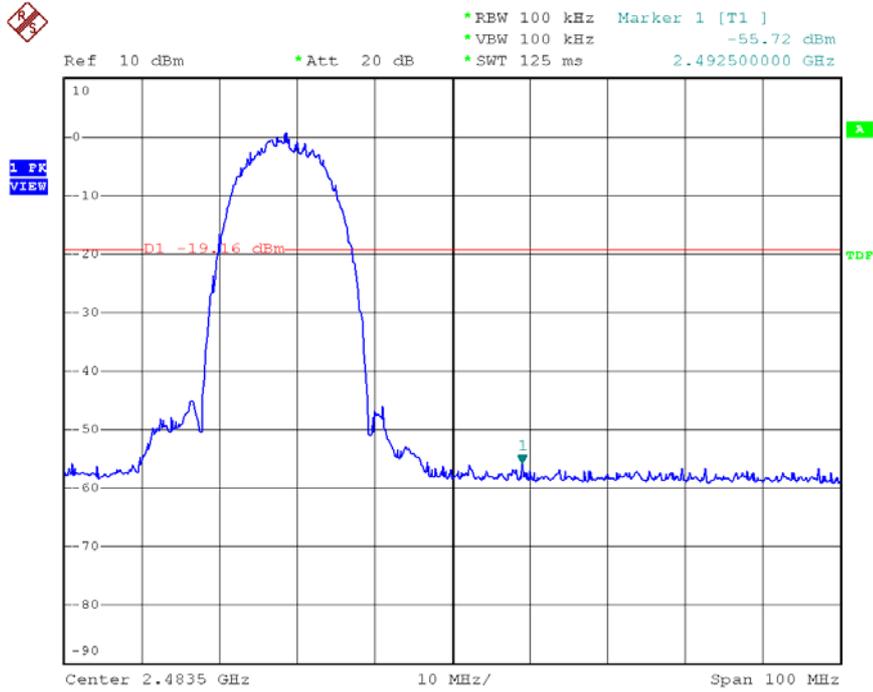


Date: 25.MAR.2008 13:24:23

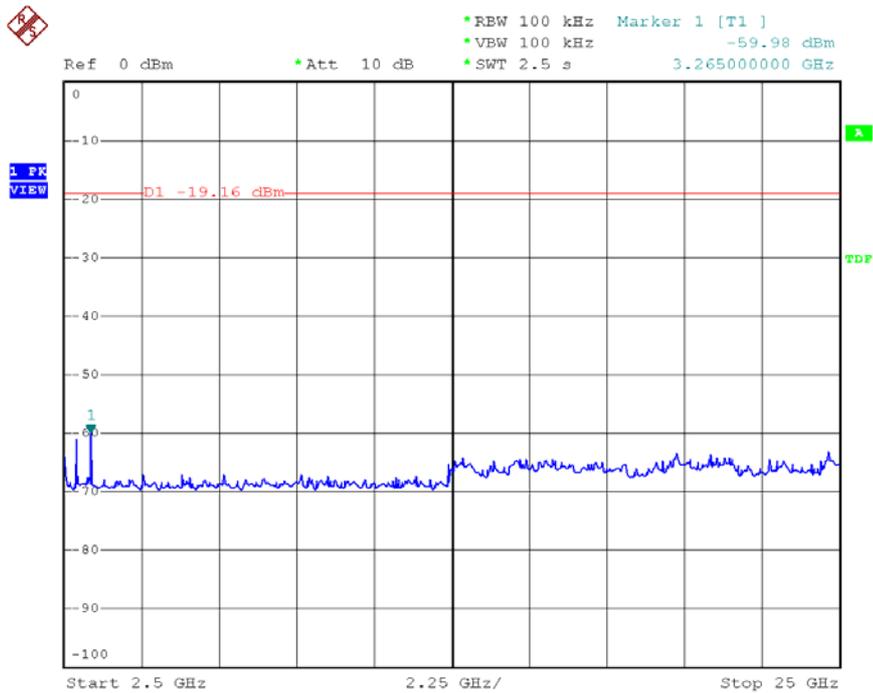


Date: 25.MAR.2008 13:24:51

Modulation Standard: 802.11b (11Mbps), ANT-R
 Channel: 11

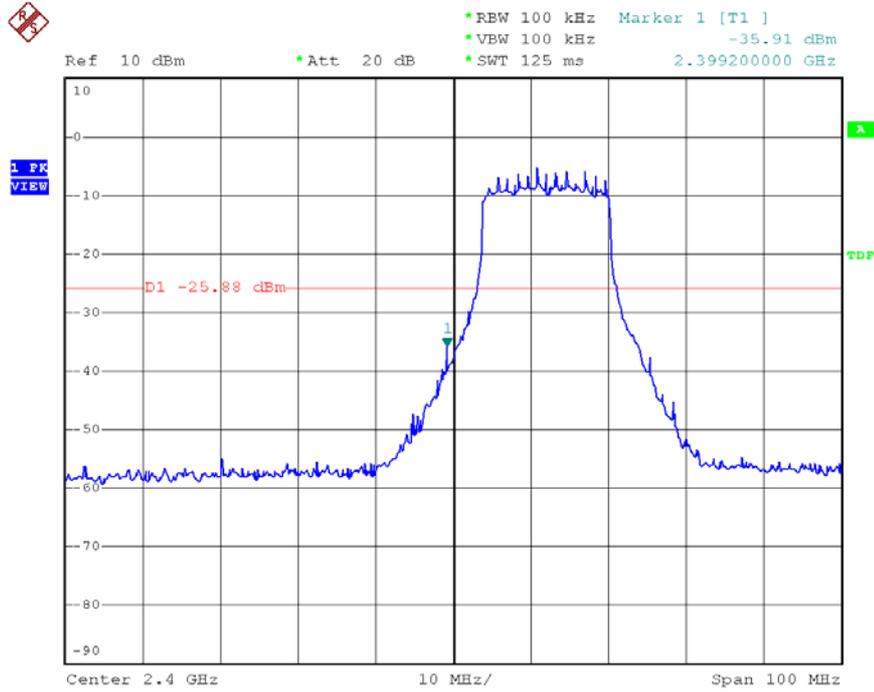


Date: 25.MAR.2008 13:28:25

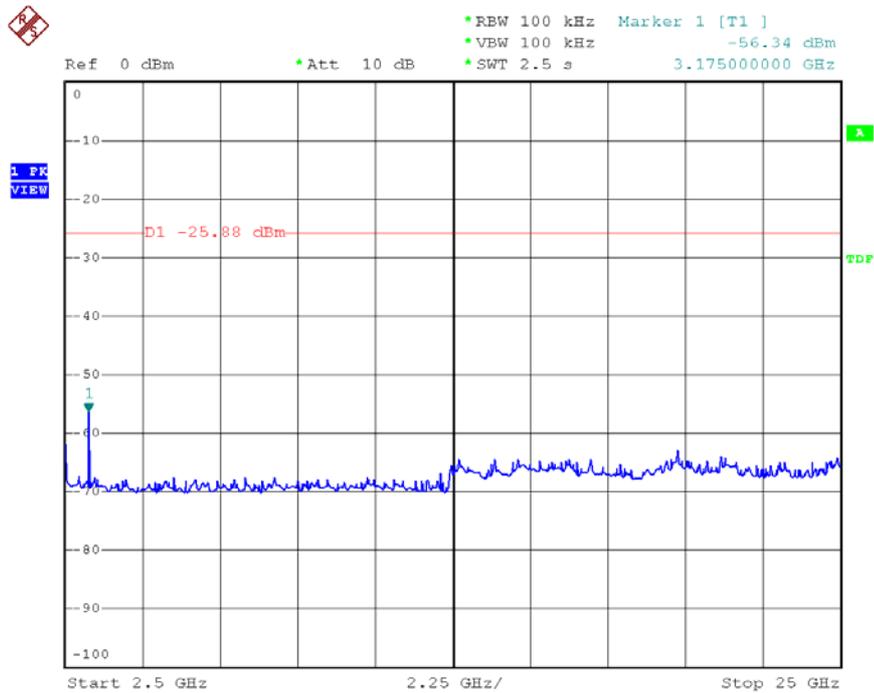


Date: 25.MAR.2008 13:26:41

Modulation Standard: 802.11g (6Mbps), ANT-R
 Channel: 01

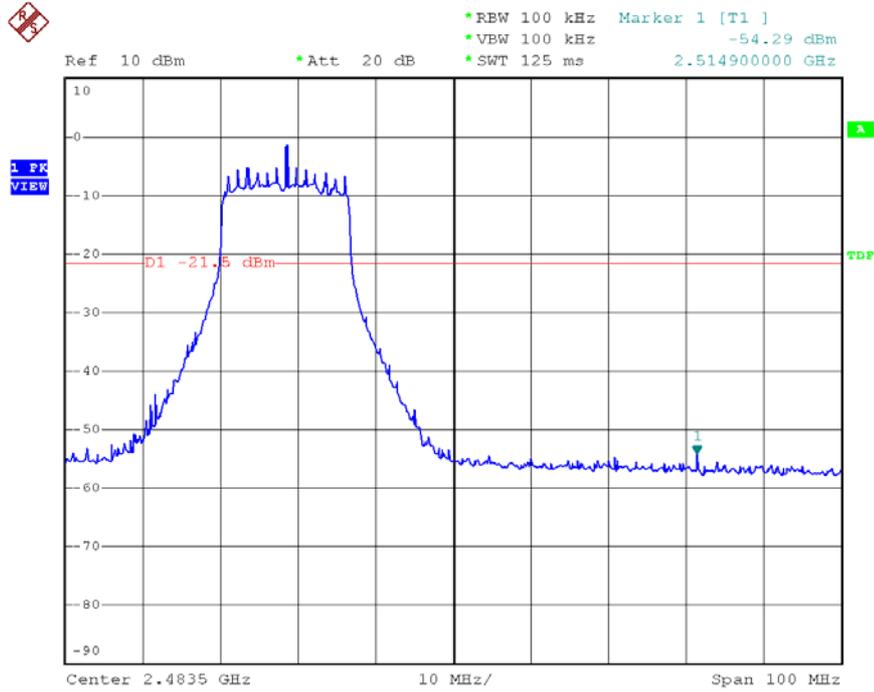


Date: 25.MAR.2008 13:29:31

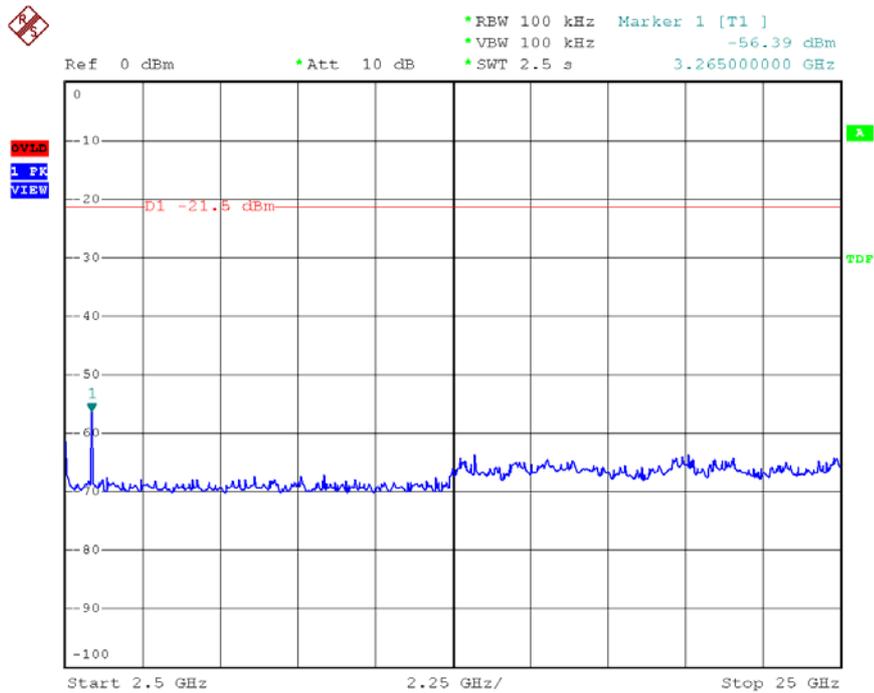


Date: 25.MAR.2008 13:30:06

Modulation Standard: 802.11g (6Mbps), ANT-R
 Channel: 11

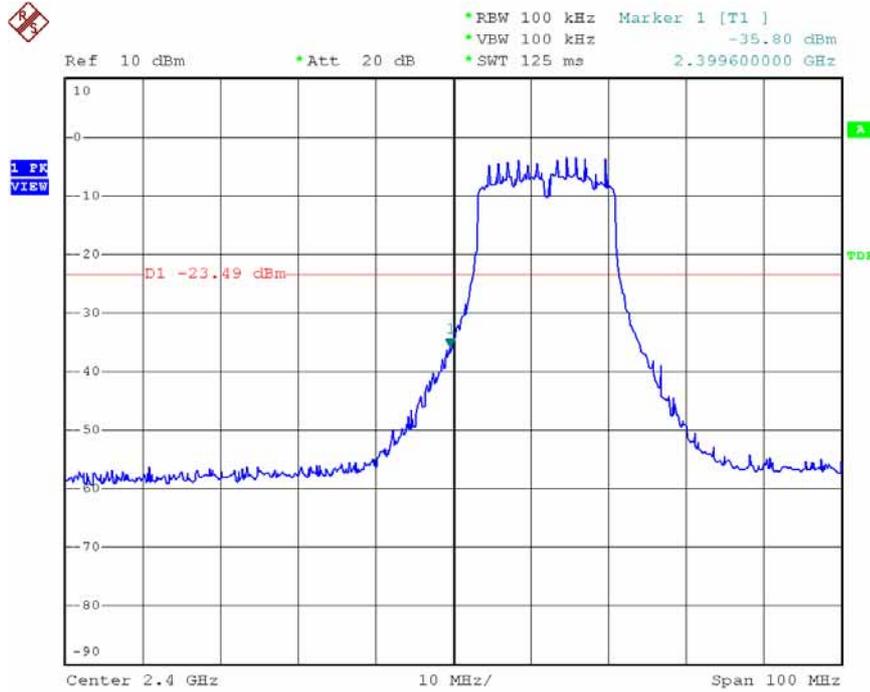


Date: 25.MAR.2008 13:31:37

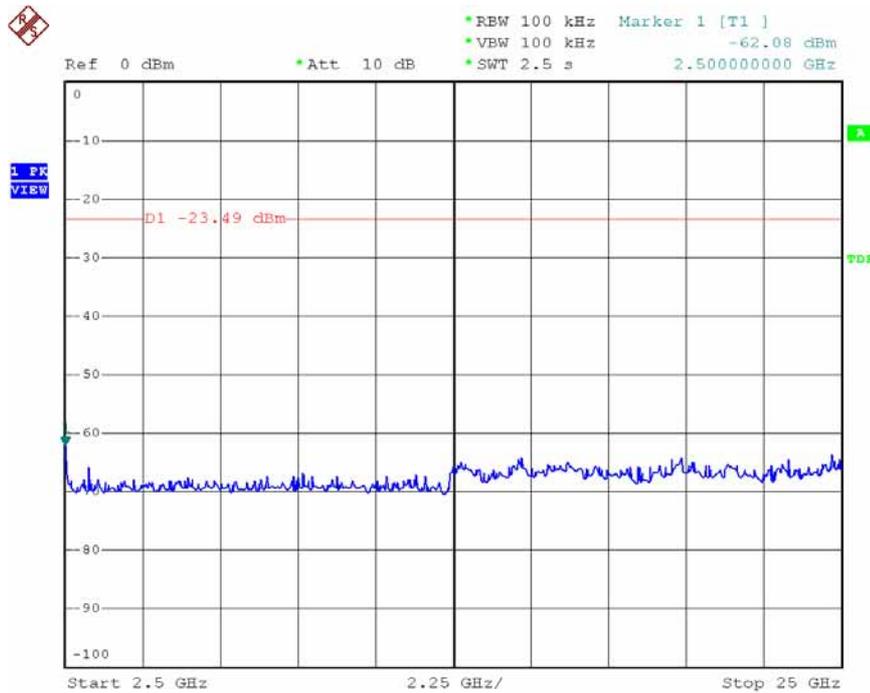


Date: 25.MAR.2008 13:32:02

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R (ANT-L)
 Channel: 01

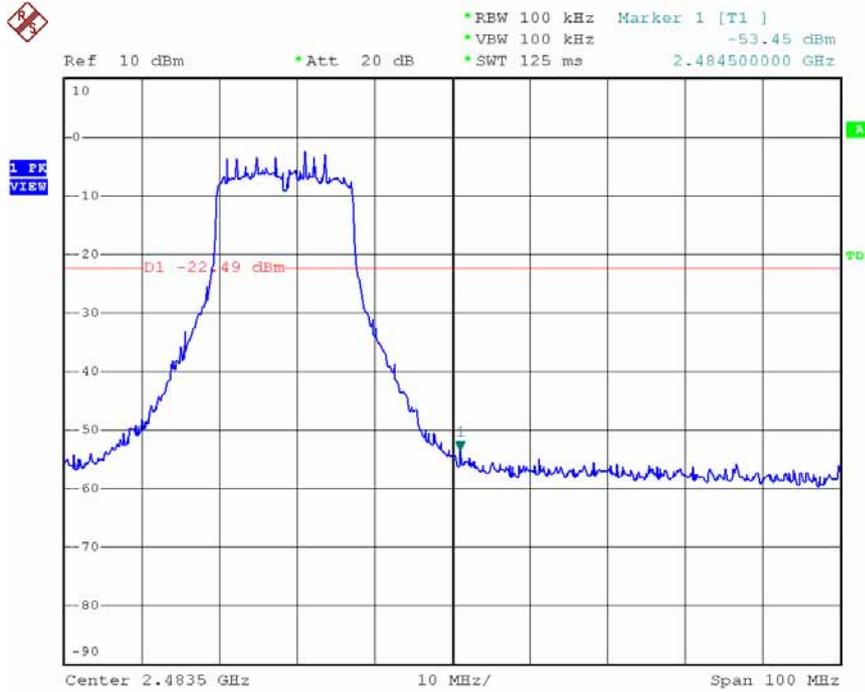


Date: 29.APR.2008 17:01:56

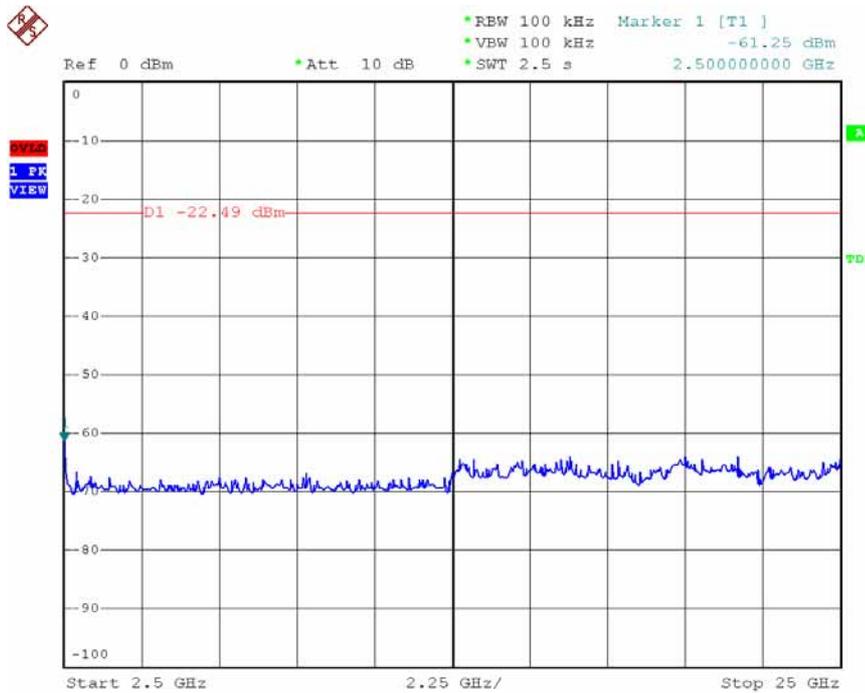


Date: 29.APR.2008 17:02:21

Modulation Standard: 802.11gn, HT20, HT20 (6.5Mbps), ANT-L + ANT-R (ANT-L)
 Channel: 11

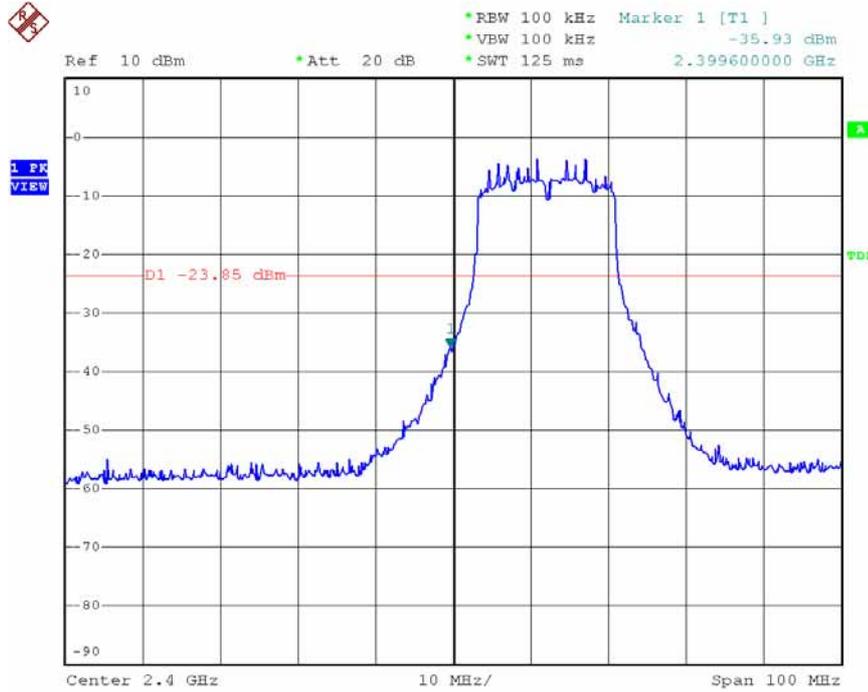


Date: 29.APR.2008 16:56:52

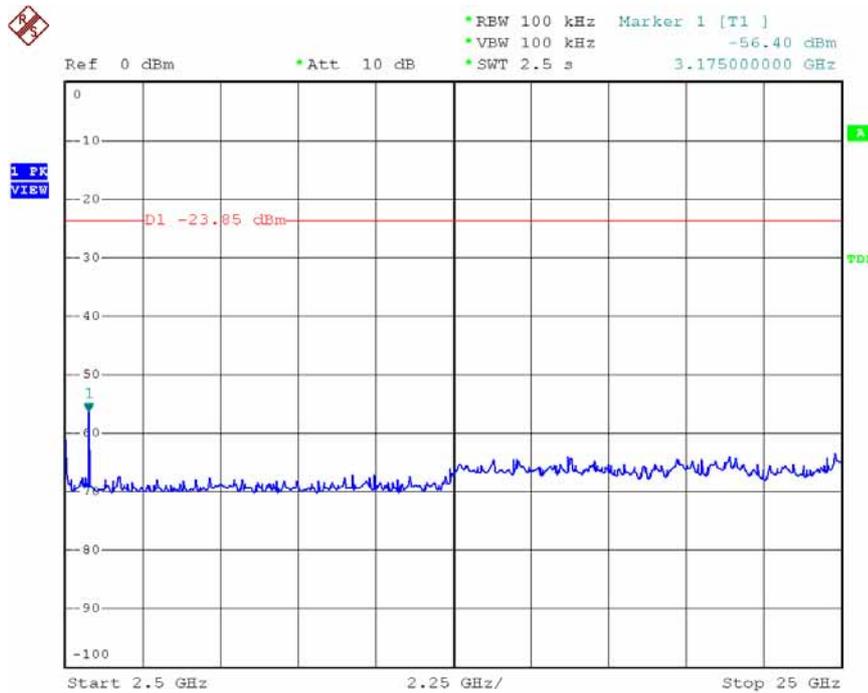


Date: 29.APR.2008 16:57:20

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R (ANT-R)
 Channel: 01

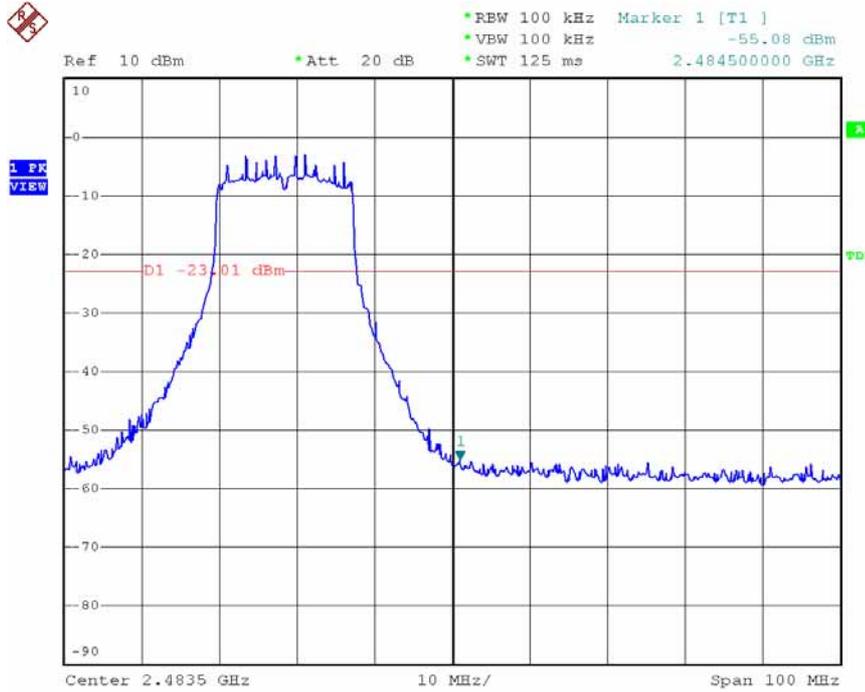


Date: 29.APR.2008 19:38:13

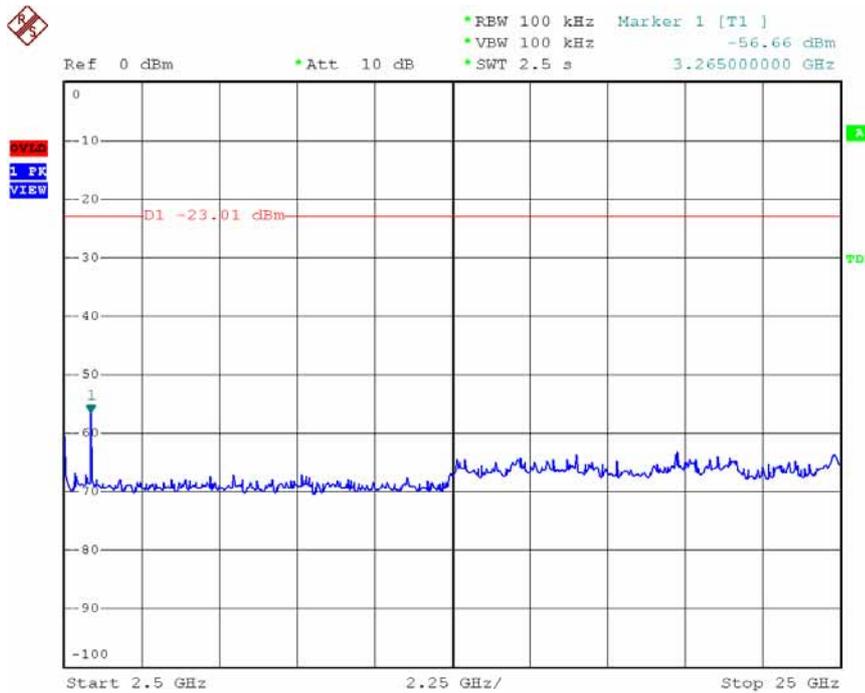


Date: 29.APR.2008 19:38:44

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R (ANT-R)
 Channel: 11

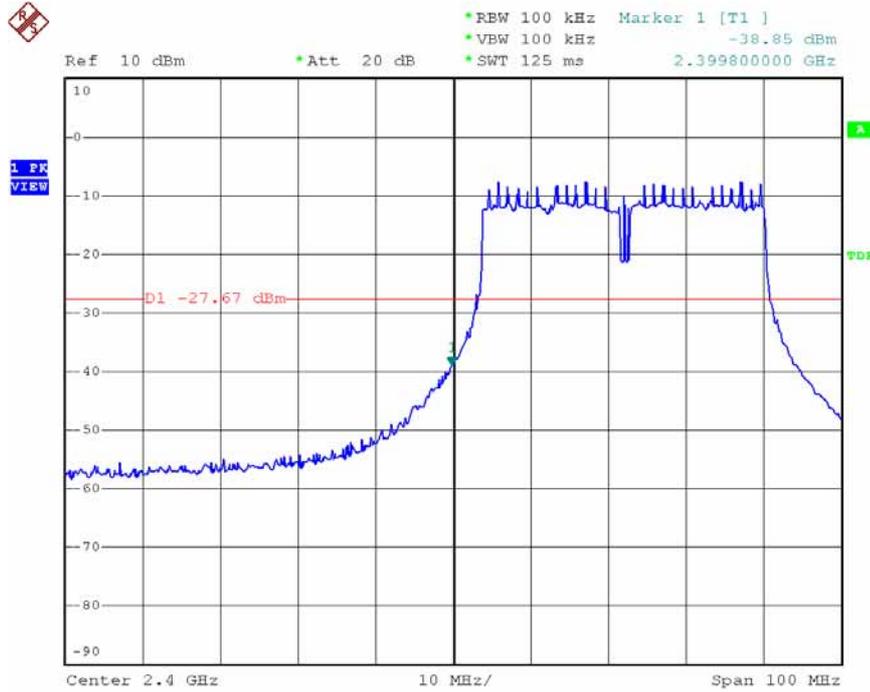


Date: 29.APR.2008 16:59:00

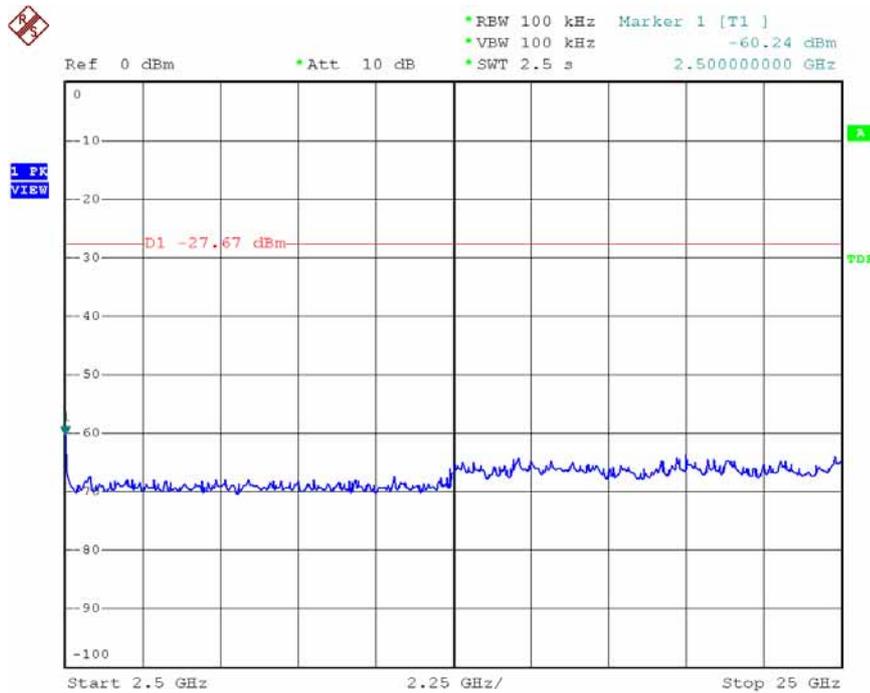


Date: 29.APR.2008 16:59:29

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R (ANT-L)
 Channel: 03

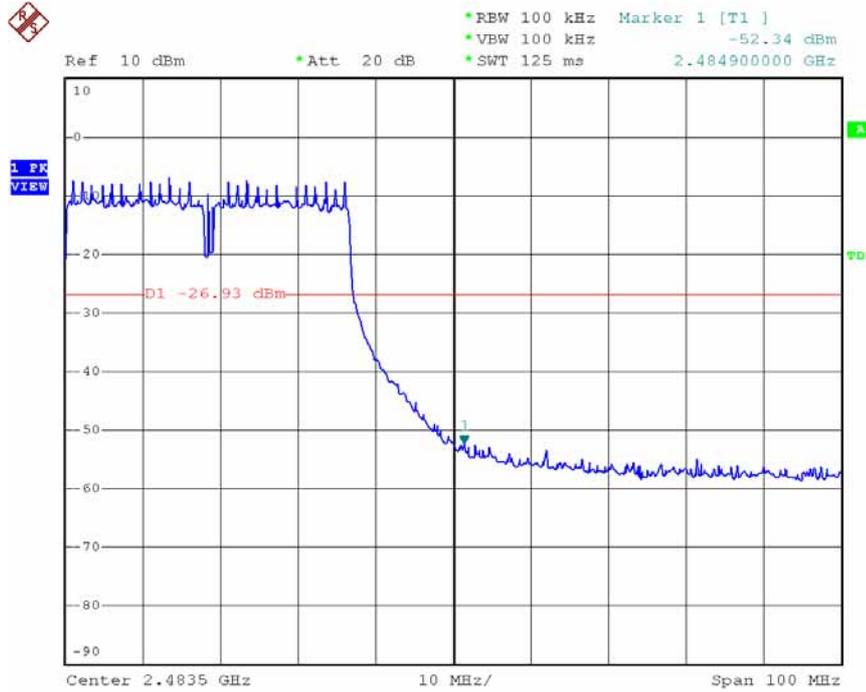


Date: 30.APR.2008 11:39:27

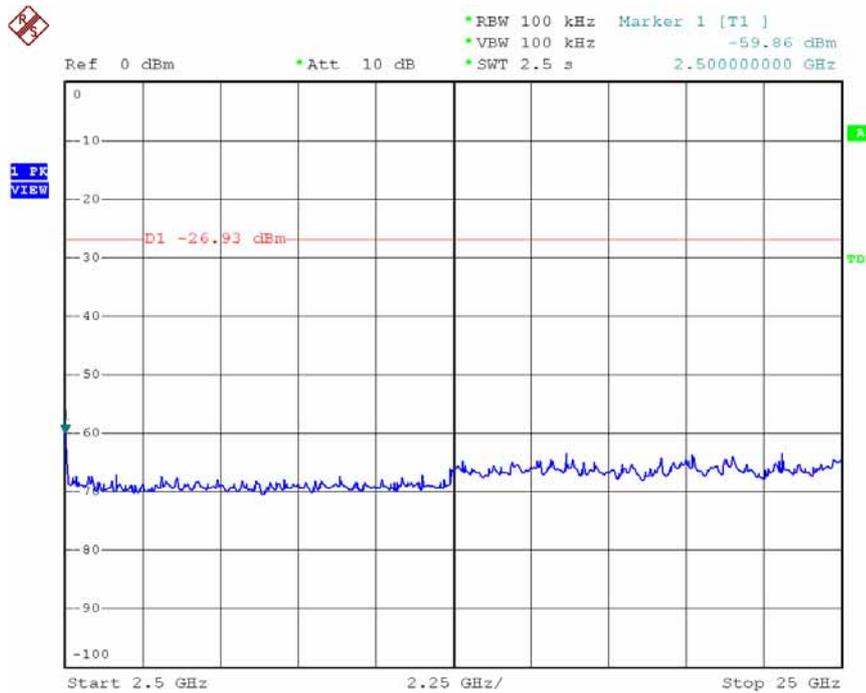


Date: 30.APR.2008 11:40:46

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R (ANT-L)
 Channel: 09

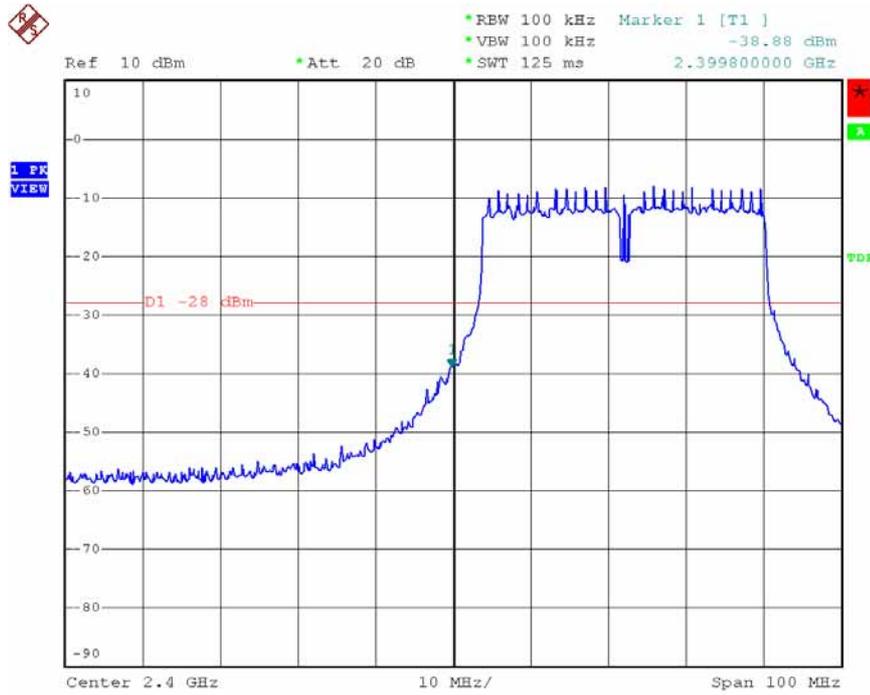


Date: 30.APR.2008 11:30:36

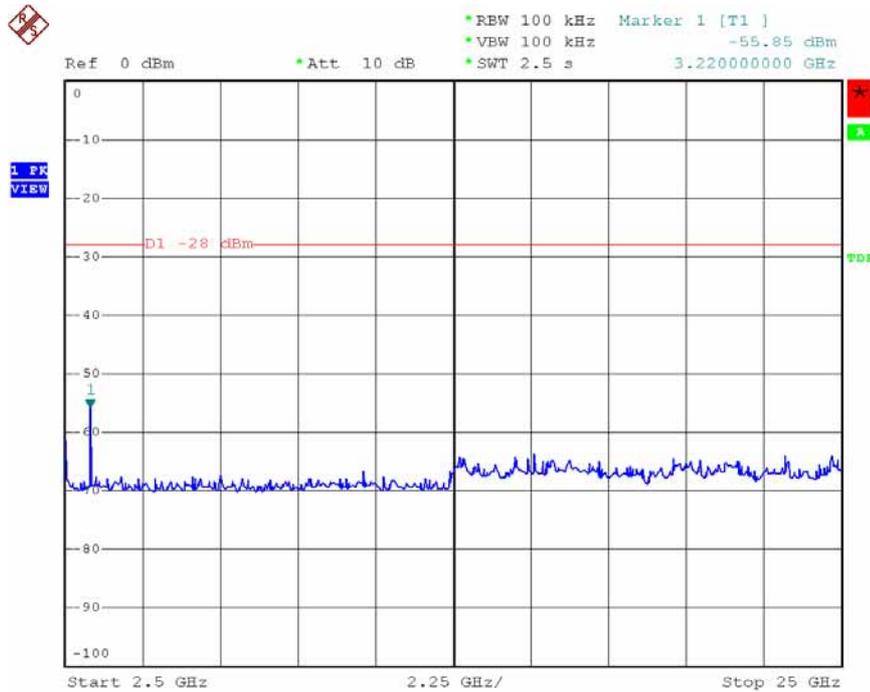


Date: 30.APR.2008 11:31:03

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R (ANT-R)
 Channel: 03

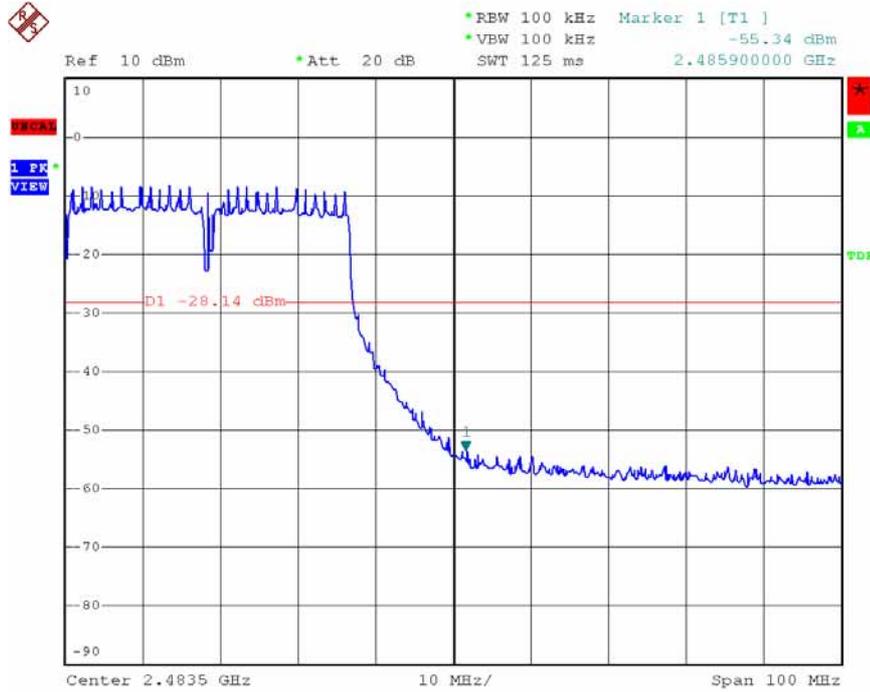


Date: 30.APR.2008 11:36:46

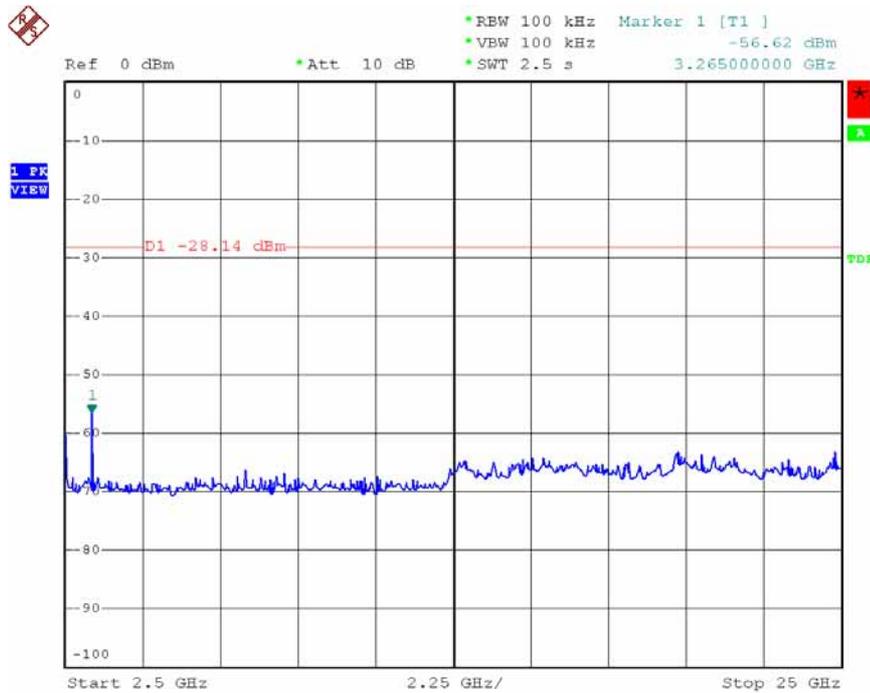


Date: 30.APR.2008 11:37:40

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R (ANT-R)
 Channel: 09

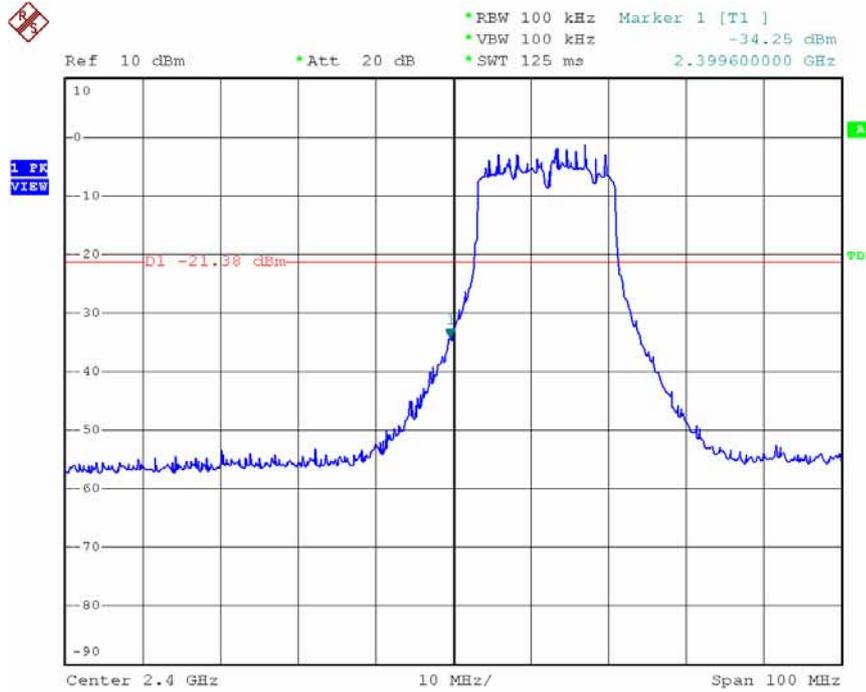


Date: 30.APR.2008 11:34:37

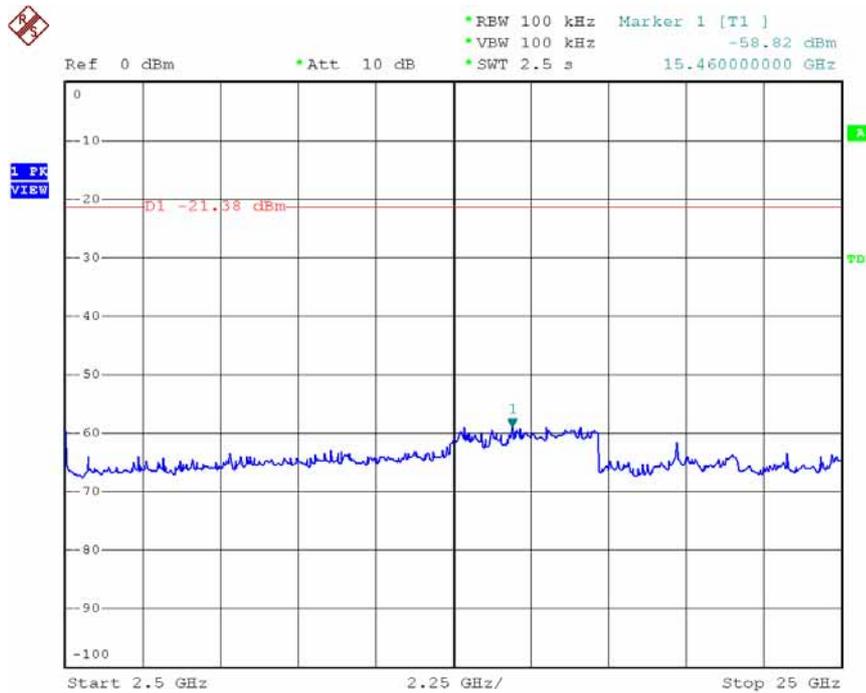


Date: 30.APR.2008 11:35:17

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-L)
 Channel: 01

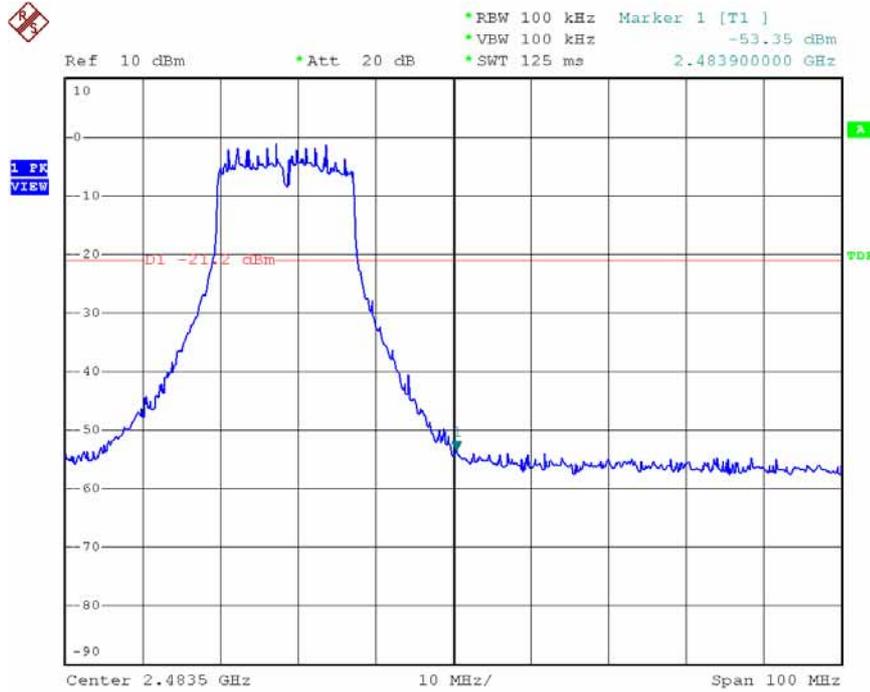


Date: 1.MAY.2008 16:22:15

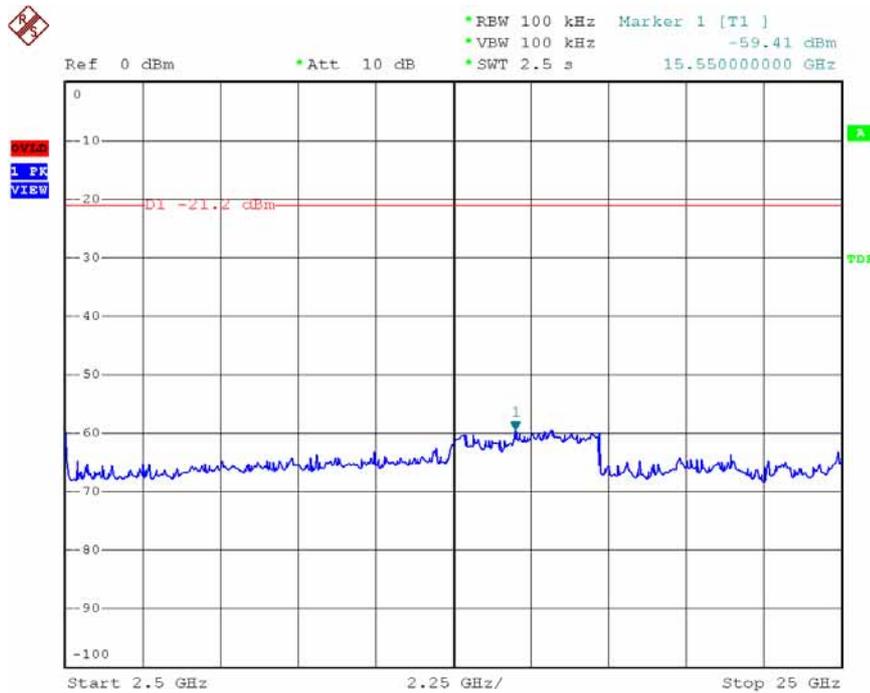


Date: 1.MAY.2008 16:23:03

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-L)
 Channel: 11

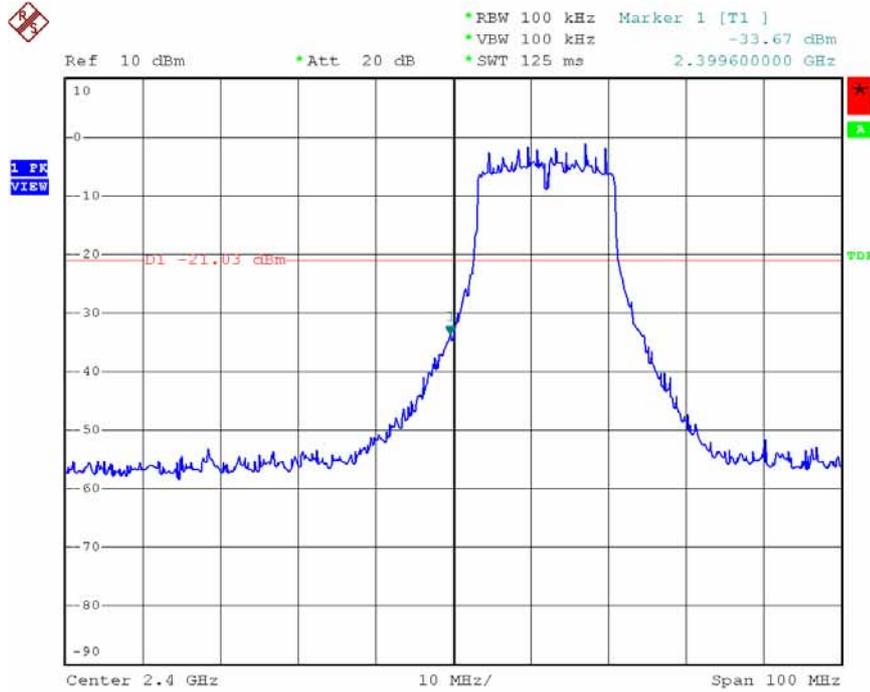


Date: 1.MAY.2008 16:31:48

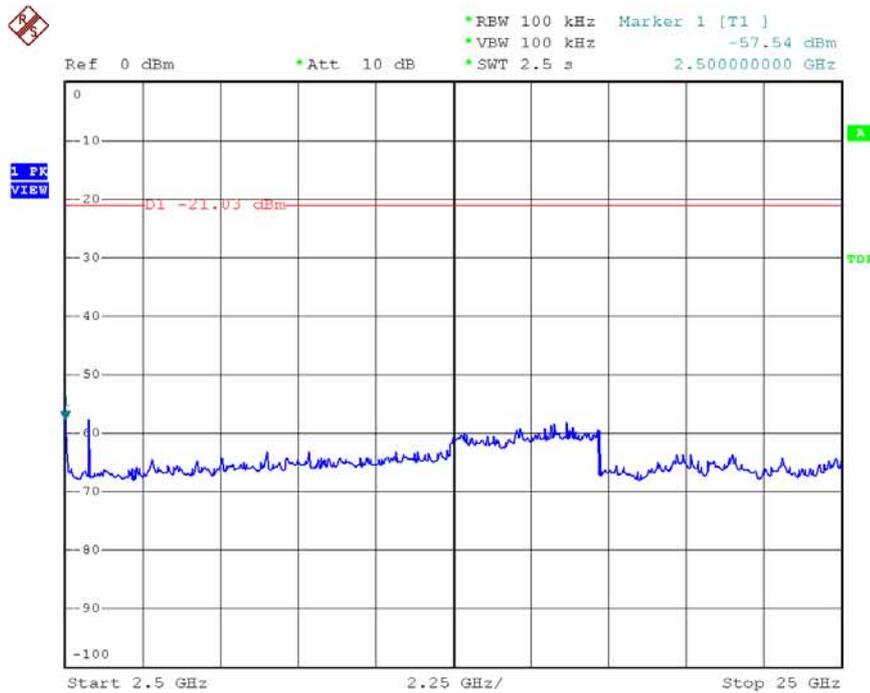


Date: 1.MAY.2008 16:32:18

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-M)
Channel: 01

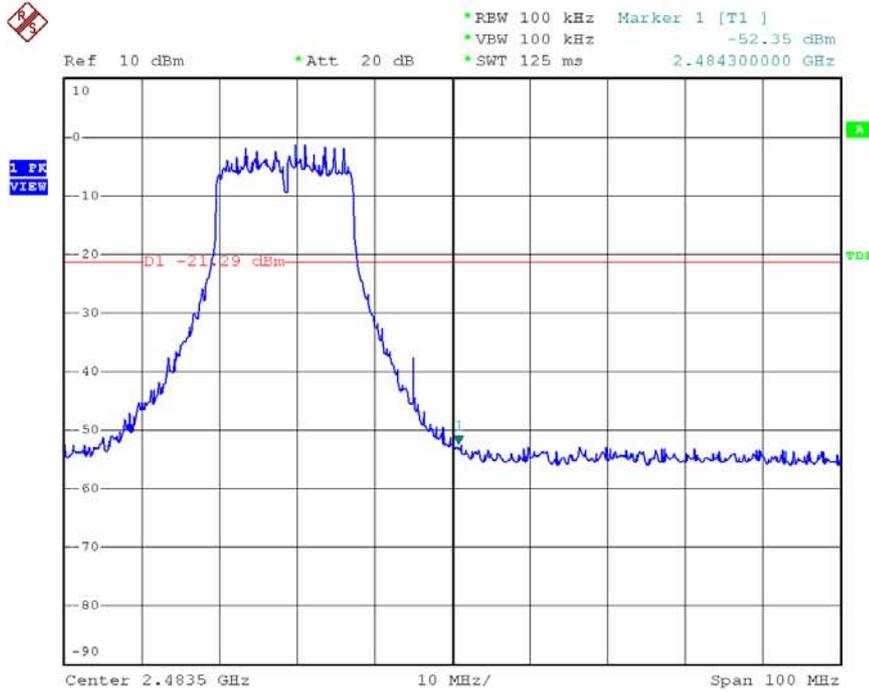


Date: 1.MAY.2008 16:24:04

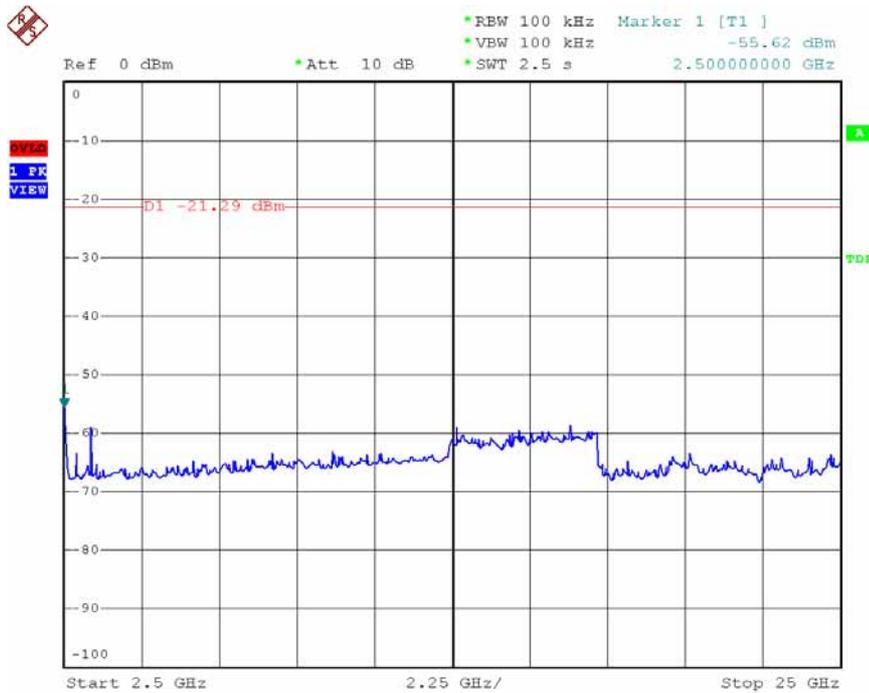


Date: 1.MAY.2008 16:24:41

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-M)
 Channel: 11

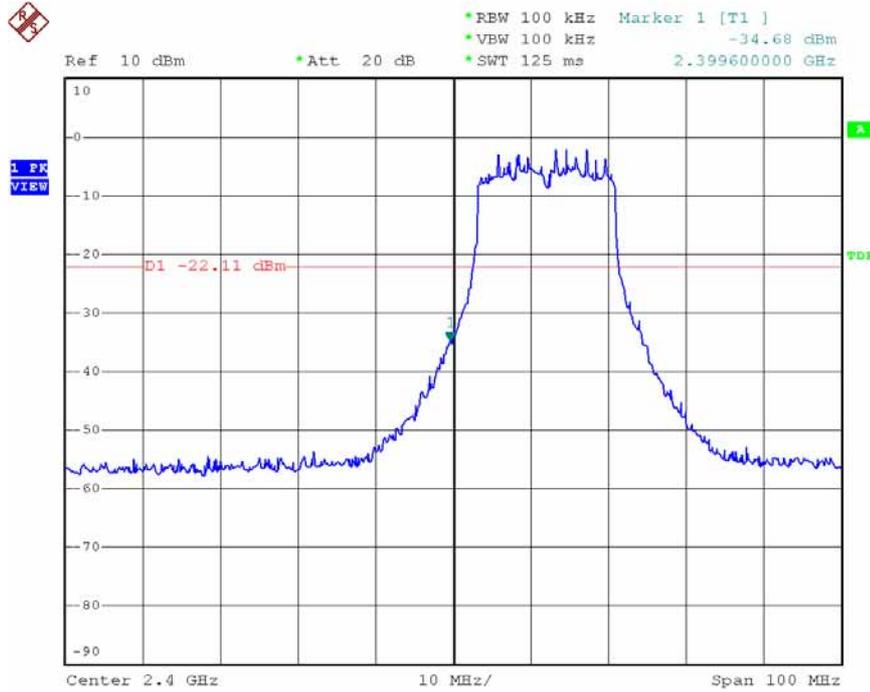


Date: 1.MAY.2008 16:29:19

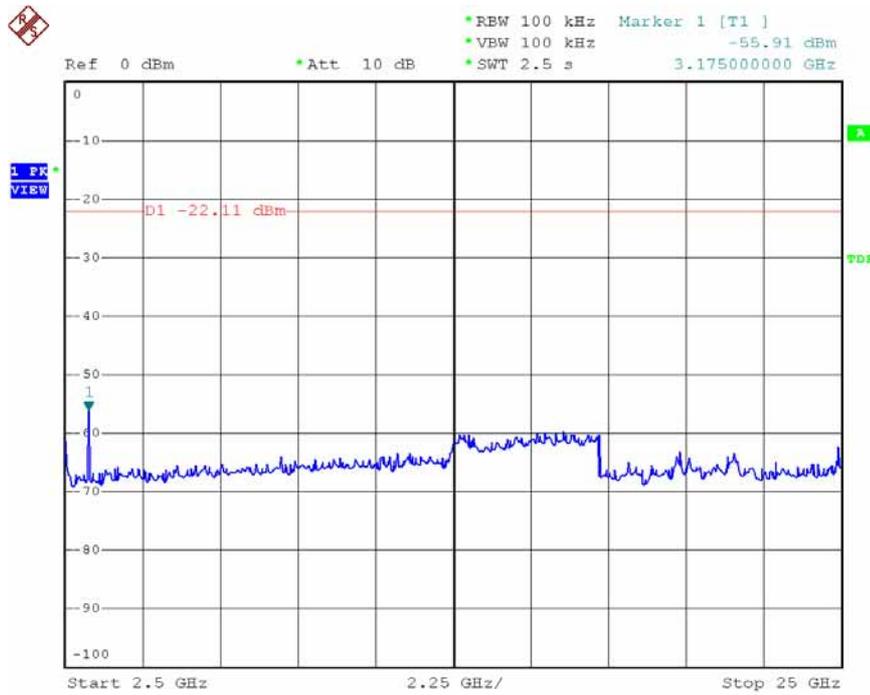


Date: 1.MAY.2008 16:29:57

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-R)
 Channel: 01

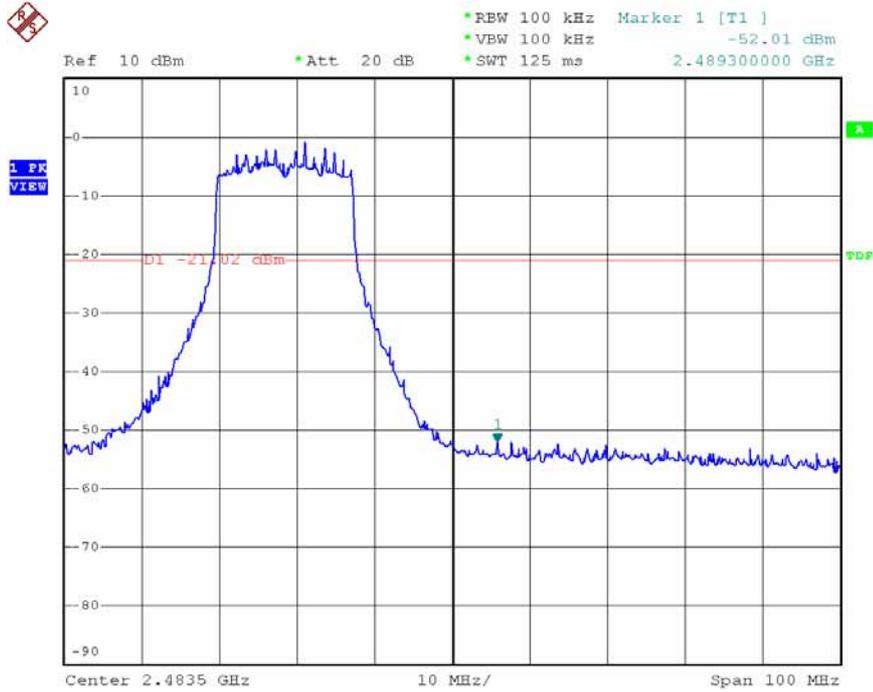


Date: 1.MAY.2008 16:26:02

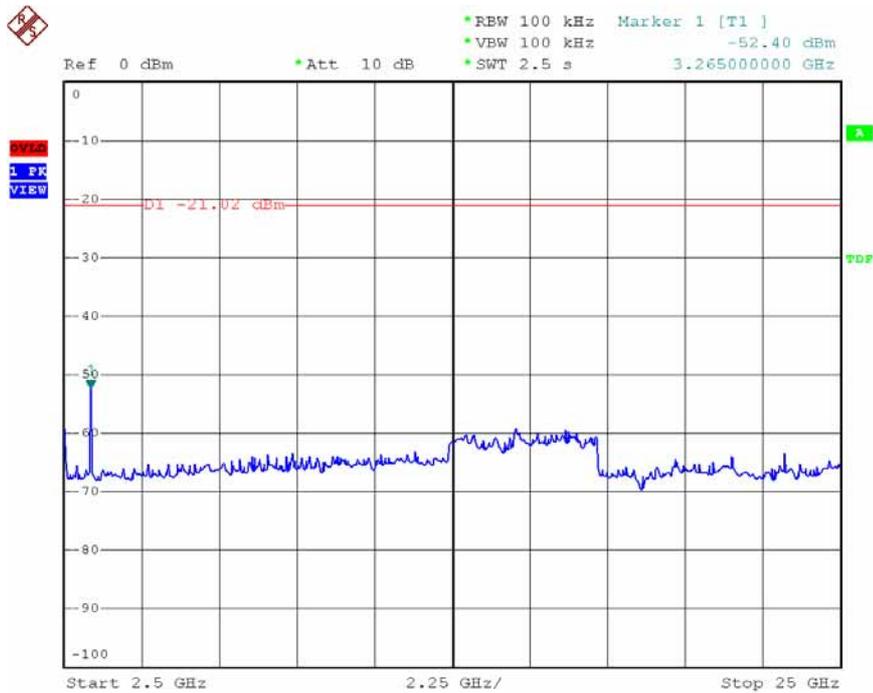


Date: 1.MAY.2008 16:26:32

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-R)
 Channel: 11

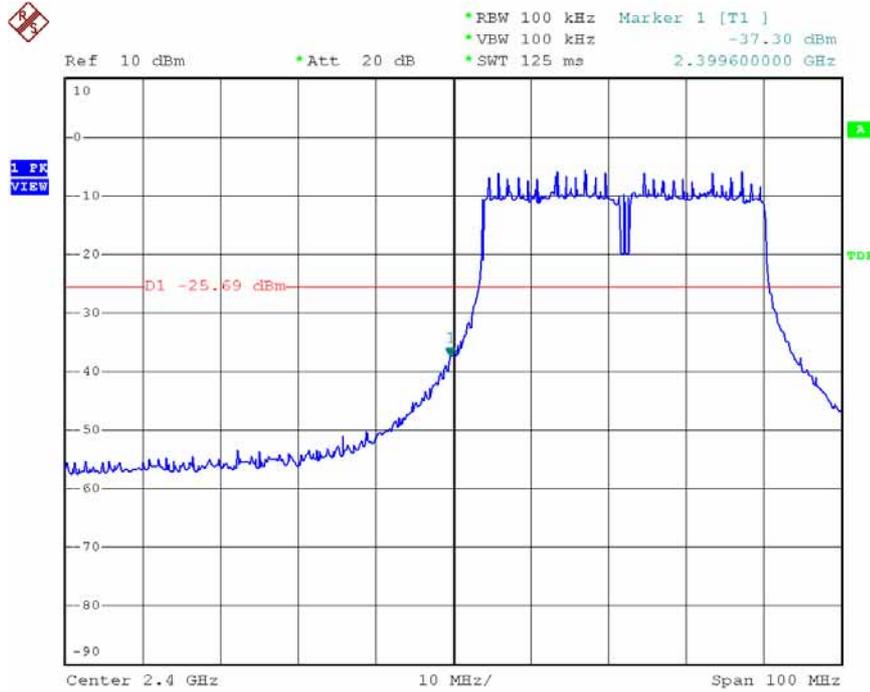


Date: 1.MAY.2008 16:27:35

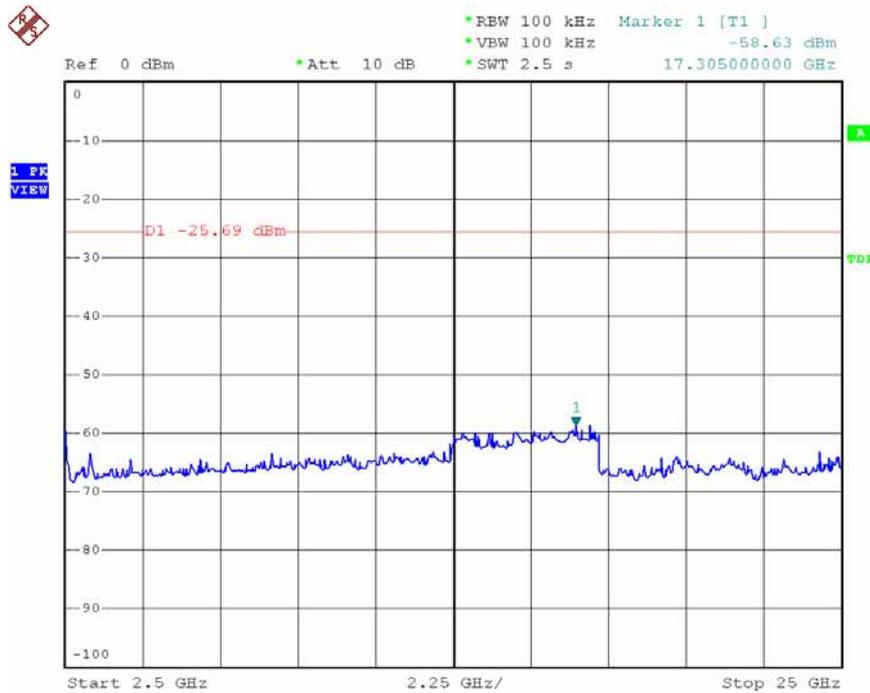


Date: 1.MAY.2008 16:28:08

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-L)
 Channel: 03

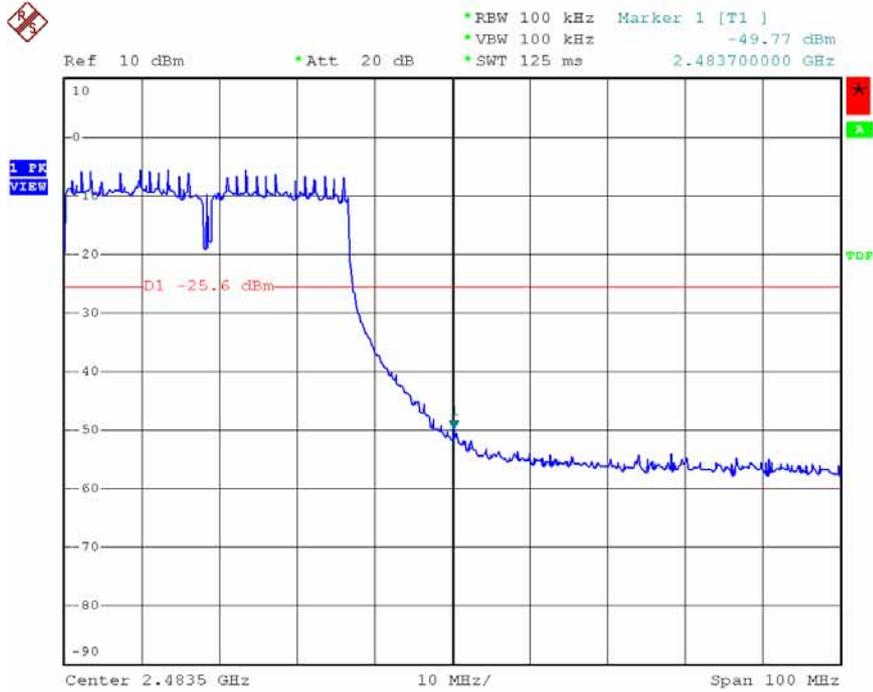


Date: 1.MAY.2008 18:01:08

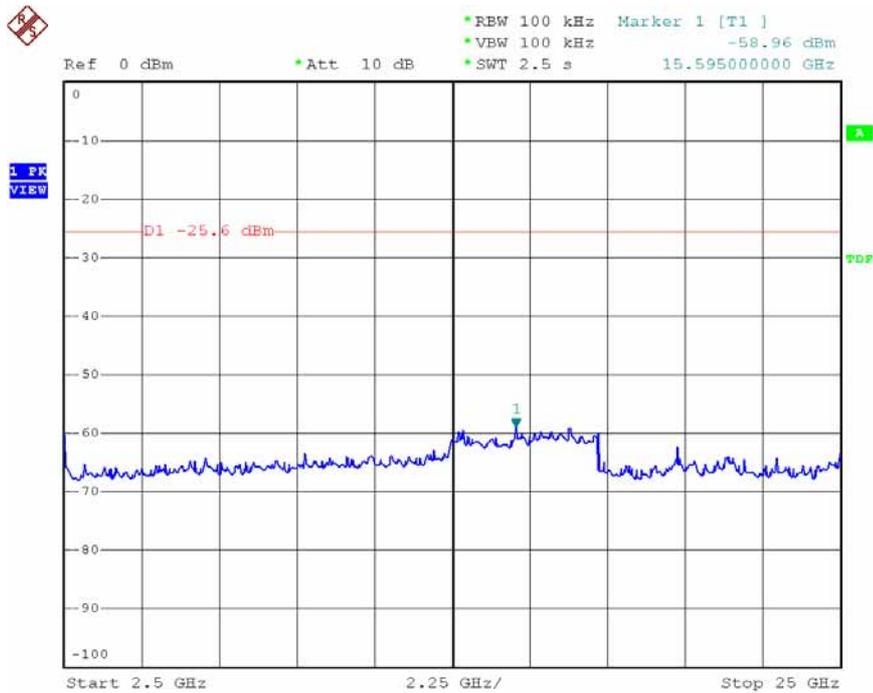


Date: 1.MAY.2008 18:01:43

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-L)
 Channel: 09

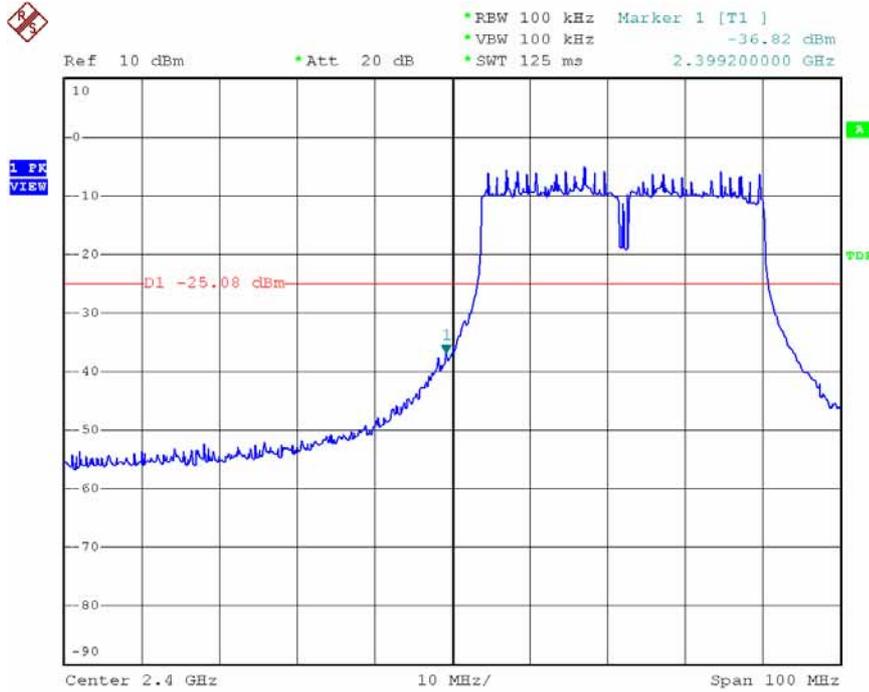


Date: 1.MAY.2008 17:59:15

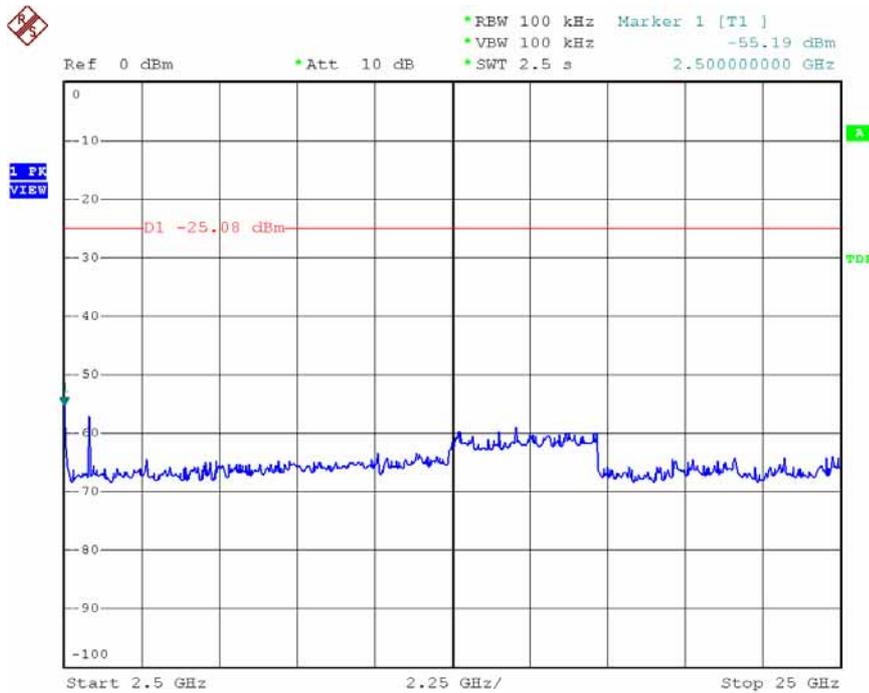


Date: 1.MAY.2008 17:59:55

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-M)
 Channel: 03

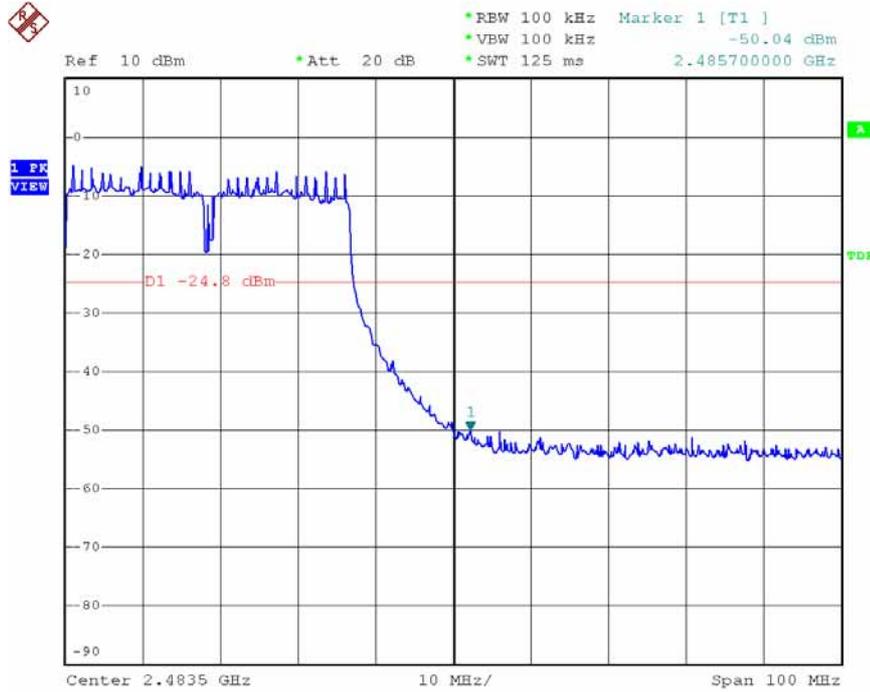


Date: 1.MAY.2008 18:02:42

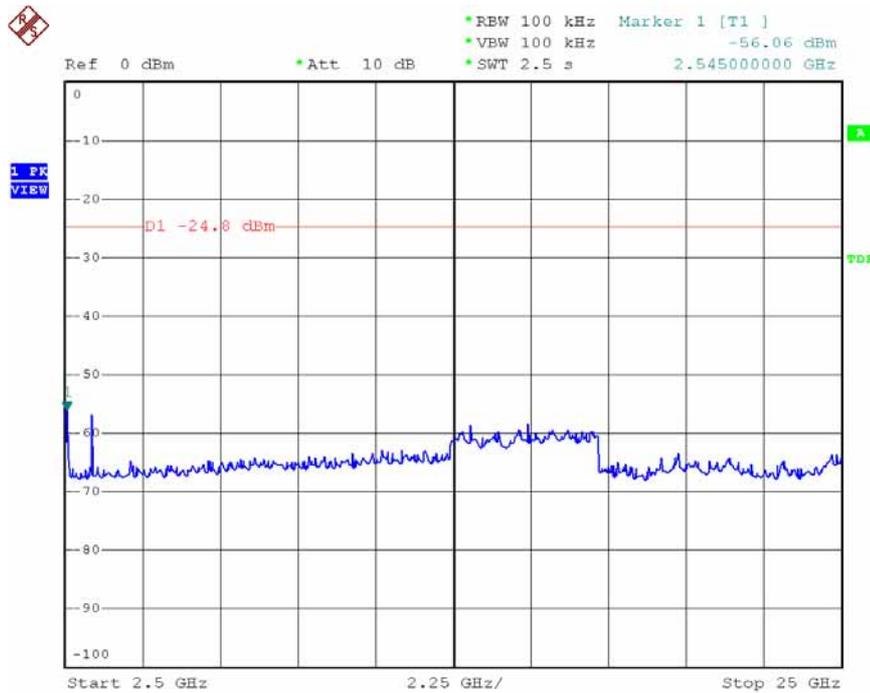


Date: 1.MAY.2008 18:03:08

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-M)
 Channel: 09

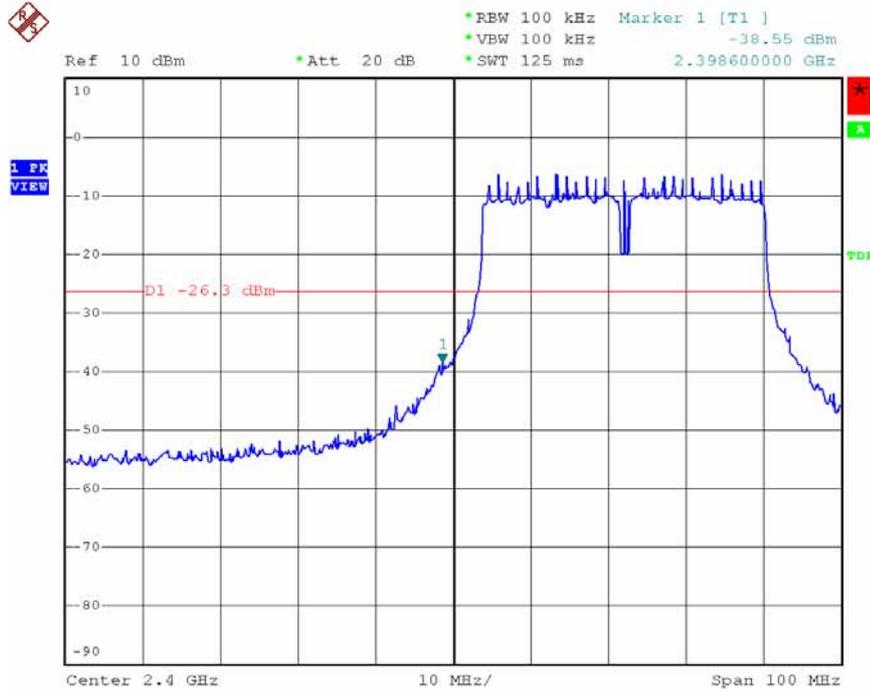


Date: 1.MAY.2008 17:57:31

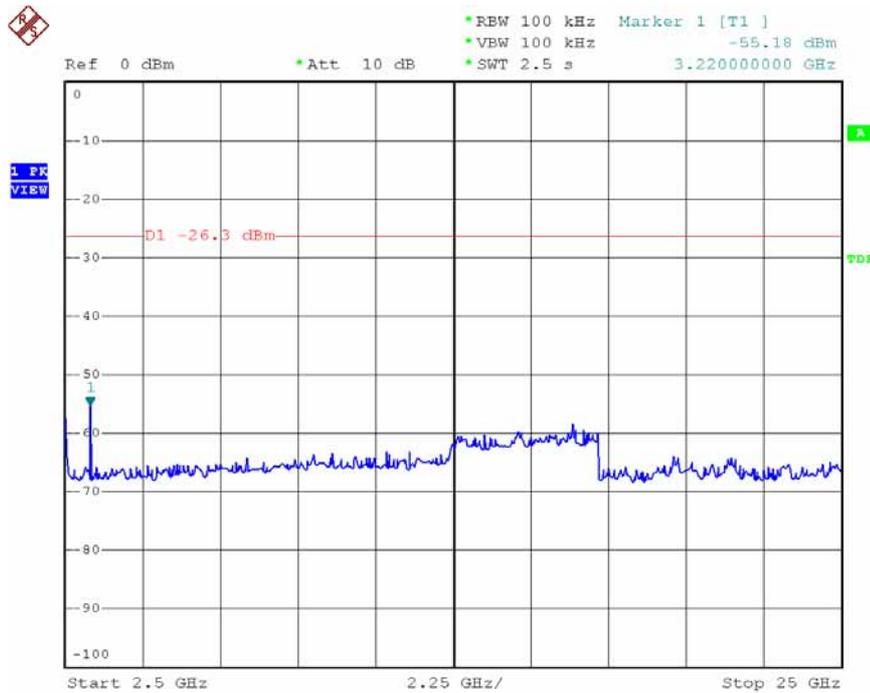


Date: 1.MAY.2008 17:58:06

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-R)
 Channel: 03

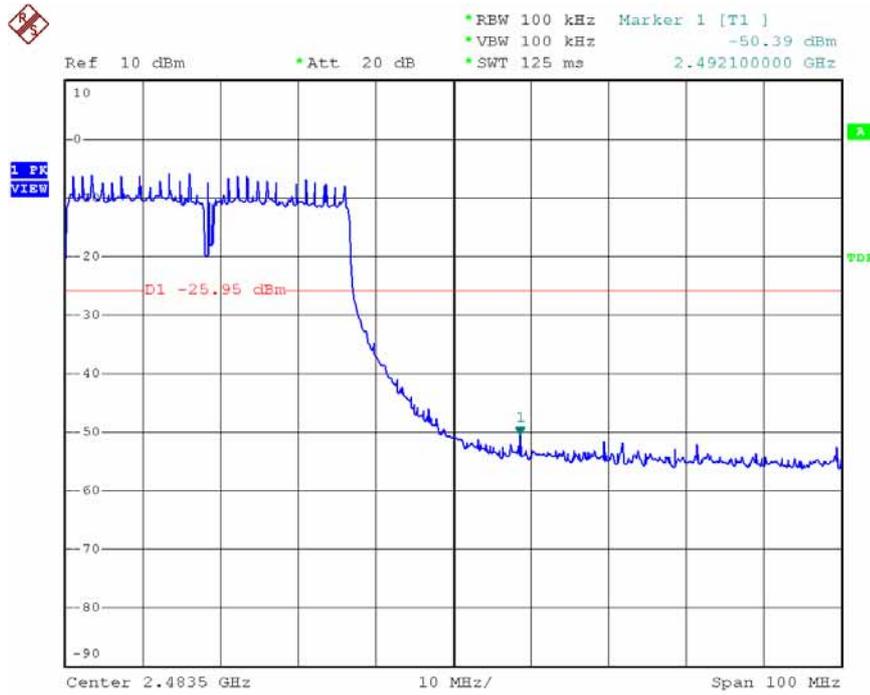


Date: 1.MAY.2008 18:04:14

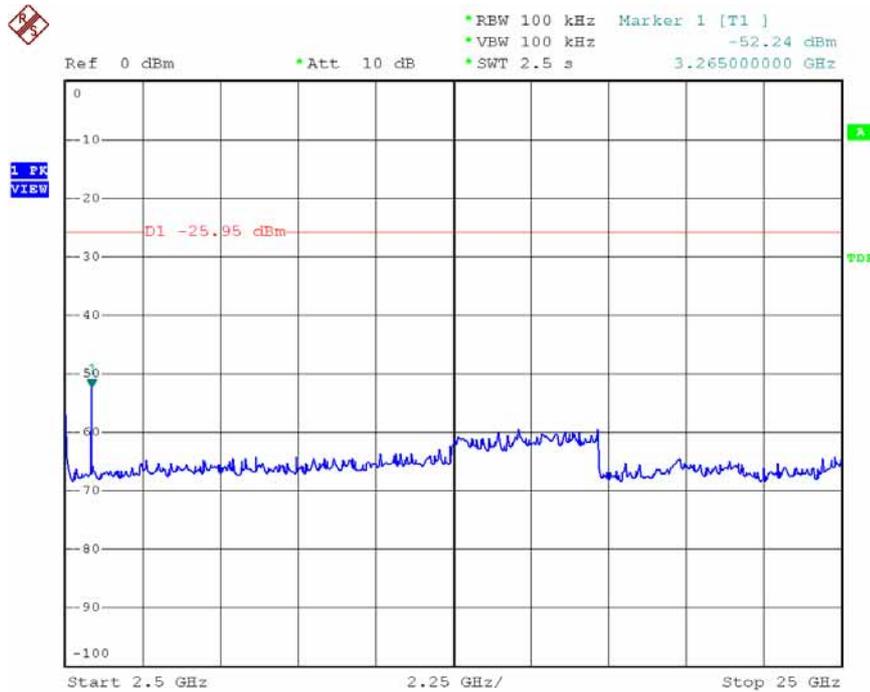


Date: 1.MAY.2008 18:04:38

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-R)
 Channel: 09



Date: 1.MAY.2008 17:55:29



Date: 1.MAY.2008 17:56:27

8.6 Restrict band emission Measurement Data

Test Mode 1:

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2353.04	H	49.82	-3.43	46.39	Peak	74	54	-27.61	192	1.27
2389.87	H	37.90	-3.30	34.60	Ave	74	54	-19.40	192	1.27
2360.18	V	54.62	-3.40	51.22	Peak	74	54	-22.78	166	1.15
2389.87	V	42.33	-3.30	39.03	Ave	74	54	-14.97	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2488.11	H	61.90	-2.74	59.16	Peak	74	54	-14.84	192	1.27
2487.80	H	49.72	-2.74	46.98	Ave	74	54	-7.02	192	1.27
2494.19	V	58.62	-2.72	55.90	Peak	74	54	-18.10	166	1.15
2487.61	V	47.41	-2.74	44.67	Ave	74	54	-9.33	166	1.15

Modulation Standard: 802.11g (6Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.87	H	54.50	-3.30	51.20	Peak	74	54	-22.80	192	1.27
2389.87	H	42.39	-3.30	39.09	Ave	74	54	-14.91	192	1.27
2388.95	V	65.72	-3.30	62.42	Peak	74	54	-11.58	166	1.15
2389.46	V	53.50	-3.30	50.20	Ave	74	54	-3.80	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.55	H	55.40	-2.96	52.44	Peak	74	54	-21.56	192	1.27
2483.81	H	43.90	-2.96	40.94	Ave	74	54	-13.06	192	1.27
2483.51	V	66.59	-2.96	63.63	Peak	74	54	-10.37	166	1.15
2483.74	V	53.60	-2.96	50.64	Ave	74	54	-3.36	166	1.15

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 Mode 2:

Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.46	H	55.73	-3.30	52.43	Peak	74	54	-21.57	192	1.27
2389.87	H	43.64	-3.30	40.34	Ave	74	54	-13.66	192	1.27
2388.95	V	65.39	-3.30	62.09	Peak	74	54	-11.91	166	1.15
2389.97	V	52.18	-3.30	48.88	Ave	74	54	-5.12	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.55	H	57.32	-2.96	54.36	Peak	74	54	-19.64	192	1.27
2483.81	H	46.52	-2.96	43.56	Ave	74	54	-10.44	192	1.27
2483.51	V	64.89	-2.96	61.93	Peak	74	54	-12.07	166	1.15
2483.55	V	53.33	-2.96	50.37	Ave	74	54	-3.63	166	1.15

Test Mode 3:

Modulation Standard: 802.11gn, HT40 (13.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 3

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.97	H	56.48	-3.30	53.18	Peak	74	54	-20.82	192	1.27
2389.76	H	45.39	-3.30	42.09	Ave	74	54	-11.91	192	1.27
2388.23	V	67.32	-3.30	64.02	Peak	74	54	-9.98	166	1.15
2389.97	V	53.88	-3.30	50.58	Ave	74	54	-3.42	166	1.15

b) Channel 9

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2485.07	H	56.13	-2.95	53.18	Peak	74	54	-20.82	192	1.27
2484.12	H	44.81	-2.96	41.85	Ave	74	54	-12.15	192	1.27
2484.19	V	64.93	-2.96	61.97	Peak	74	54	-12.03	166	1.15
2483.74	V	52.88	-2.96	49.92	Ave	74	54	-4.08	166	1.15

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 Mode 4:

Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.46	H	55.82	-3.30	52.52	Peak	74	54	-21.48	192	1.27
2389.87	H	43.73	-3.30	40.43	Ave	74	54	-13.57	192	1.27
2388.95	V	65.42	-3.30	62.12	Peak	74	54	-11.88	166	1.15
2389.97	V	52.28	-3.30	48.98	Ave	74	54	-5.02	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.55	H	57.32	-2.96	54.36	Peak	74	54	-19.64	192	1.27
2483.81	H	46.87	-2.96	43.91	Ave	74	54	-10.09	192	1.27
2483.51	V	64.64	-2.96	61.68	Peak	74	54	-12.32	166	1.15
2483.55	V	52.39	-2.96	49.43	Ave	74	54	-4.57	166	1.15

Test Mode 5:

Modulation Standard: 802.11gn, HT40 (13.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.97	H	56.53	-3.30	53.23	Peak	74	54	-20.77	192	1.27
2389.76	H	45.87	-3.30	42.57	Ave	74	54	-11.43	192	1.27
2388.23	V	66.82	-3.30	63.52	Peak	74	54	-10.48	166	1.15
2389.97	V	52.74	-3.30	49.44	Ave	74	54	-4.56	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2485.07	H	56.18	-2.95	53.23	Peak	74	54	-20.77	192	1.27
2484.12	H	44.93	-2.96	41.97	Ave	74	54	-12.03	192	1.27
2484.19	V	65.74	-2.96	62.78	Peak	74	54	-11.22	166	1.15
2483.74	V	52.68	-2.96	49.72	Ave	74	54	-4.28	166	1.15

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 Mode 6:

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2353.04	H	49.60	-3.43	53.03	Peak	74	54	-20.97	192	1.27
2389.87	H	37.99	-3.30	34.69	Ave	74	54	-19.31	192	1.27
2360.18	V	54.93	-3.40	51.53	Peak	74	54	-22.47	166	1.15
2389.87	V	42.26	-3.30	38.96	Ave	74	54	-15.03	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2494.45	H	51.43	-2.92	48.51	Peak	74	54	-25.49	192	1.27
2486.02	H	39.14	-2.95	36.19	Ave	74	54	-17.81	192	1.27
2486.09	V	55.70	-2.95	52.75	Peak	74	54	-21.25	166	1.15
2486.47	V	43.75	-2.95	40.80	Ave	74	54	-13.20	166	1.15

Modulation Standard: 802.11g (6Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.87	H	54.41	-3.30	51.11	Peak	74	54	-22.89	192	1.27
2389.87	H	42.11	-3.30	38.81	Ave	74	54	-15.19	192	1.27
2388.95	V	65.67	-3.30	62.37	Peak	74	54	-11.63	166	1.15
2389.46	V	53.36	-3.30	50.06	Ave	74	54	-3.94	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.55	H	55.32	-2.96	52.36	Peak	74	54	-21.64	192	1.27
2483.81	H	43.85	-2.96	40.89	Ave	74	54	-13.11	192	1.27
2483.51	V	66.45	-2.96	63.49	Peak	74	54	-10.51	166	1.15
2483.74	V	53.50	-2.96	50.54	Ave	74	54	-3.46	166	1.15

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 Mode 7:

Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.46	H	55.80	-3.30	52.50	Peak	74	54	-21.50	192	1.27
2389.87	H	43.61	-3.30	40.31	Ave	74	54	-13.69	192	1.27
2388.95	V	65.65	-3.30	62.35	Peak	74	54	-11.65	166	1.15
2389.97	V	53.55	-3.30	50.25	Ave	74	54	-3.75	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.55	H	57.82	-2.96	54.86	Peak	74	54	-19.14	192	1.27
2483.81	H	47.31	-2.96	44.35	Ave	74	54	-9.65	192	1.27
2483.51	V	65.74	-2.96	62.78	Peak	74	54	-11.22	166	1.15
2483.55	V	52.87	-2.96	49.91	Ave	74	54	-4.09	166	1.15

Test Mode 8:

Modulation Standard: 802.11gn, HT40 (13.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 3

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.97	H	56.49	-3.30	53.19	Peak	74	54	-20.81	192	1.27
2389.97	H	44.28	-3.30	40.98	Ave	74	54	-13.02	192	1.27
2388.23	V	66.31	-3.30	63.01	Peak	74	54	-10.99	166	1.15
2389.97	V	52.97	-3.30	49.67	Ave	74	54	-4.33	166	1.15

b) Channel 9

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2485.07	H	56.13	-2.95	53.18	Peak	74	54	-20.83	192	1.27
2484.12	H	43.94	-2.96	40.98	Ave	74	54	-13.02	192	1.27
2484.19	V	65.89	-2.96	62.93	Peak	74	54	-11.07	166	1.15
2483.74	V	52.88	-2.96	49.92	Ave	74	54	-4.08	166	1.15

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 Mode 9:

Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.46	H	55.80	-3.30	52.50	Peak	74	54	-21.50	192	1.27
2389.87	H	43.61	-3.30	40.31	Ave	74	54	-13.69	192	1.27
2388.95	V	65.60	-3.30	62.30	Peak	74	54	-11.70	166	1.15
2389.97	V	53.41	-3.30	50.11	Ave	74	54	-3.89	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.55	H	57.72	-2.96	54.76	Peak	74	54	-19.24	192	1.27
2483.81	H	46.35	-2.96	43.39	Ave	74	54	-10.61	192	1.27
2483.51	V	65.80	-2.96	62.84	Peak	74	54	-11.16	166	1.15
2483.55	V	53.10	-2.96	50.14	Ave	74	54	-3.86	166	1.15

Test Mode 10

Modulation Standard: 802.11gn, HT40 (13.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 3

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.97	H	56.70	-3.30	53.40	Peak	74	54	-20.60	192	1.27
2389.76	H	44.26	-3.30	40.96	Ave	74	54	-13.04	192	1.27
2388.23	V	66.30	-3.30	63.00	Peak	74	54	-11.00	166	1.15
2389.97	V	53.74	-3.30	50.44	Ave	74	54	-3.56	166	1.15

b) Channel 9

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2485.07	H	56.15	-2.95	53.20	Peak	74	54	-20.80	192.	1.27
2484.12	H	43.84	-2.96	40.88	Ave	74	54	-13.12	192	1.27
2484.19	V	65.74	-2.96	62.78	Peak	74	54	-11.22	166	1.15
2483.74	V	53.88	-2.96	50.92	Ave	74	54	-3.08	166	1.15

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 Mode 11:

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2353.04	H	49.39	-3.43	45.96	Peak	74	54	-28.04	192	1.27
2389.87	H	37.82	-3.30	34.52	Ave	74	54	-19.48	192	1.27
2360.18	V	54.70	-3.40	51.30	Peak	74	54	-22.70	166	1.15
2389.87	V	42.30	-3.30	39.00	Ave	74	54	-15.00	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2494.45	H	51.66	-2.92	48.74	Peak	74	54	-25.26	192	1.27
2486.02	H	39.20	-2.95	36.25	Ave	74	54	-17.75	192	1.27
2486.09	V	55.84	-2.95	52.89	Peak	74	54	-21.11	166	1.15
2486.47	V	43.90	-2.95	40.95	Ave	74	54	-13.05	166	1.15

Modulation Standard: 802.11g (6Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.87	H	54.62	-3.30	51.32	Peak	74	54	-22.68	192	1.27
2389.87	H	42.33	-3.30	39.03	Ave	74	54	-14.97	192	1.27
2388.95	V	65.80	-3.30	62.50	Peak	74	54	-11.50	166	1.15
2389.46	V	53.90	-3.30	50.60	Ave	74	54	-3.40	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.55	H	55.30	-2.96	52.34	Peak	74	54	-21.66	192	1.27
2483.81	H	43.70	-2.96	40.74	Ave	74	54	-13.26	192	1.27
2483.51	V	66.84	-2.96	63.88	Peak	74	54	-10.12	166	1.15
2483.74	V	53.60	-2.96	50.64	Ave	74	54	-3.36	166	1.15

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 Mode 12:

Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.46	H	56.10	-3.30	52.80	Peak	74	54	-21.20	192	1.27
2389.87	H	43.52	-3.30	40.22	Ave	74	54	-13.78	192	1.27
2388.95	V	65.73	-3.30	62.43	Peak	74	54	-11.57	166	1.15
2389.97	V	53.88	-3.30	50.58	Ave	74	54	-3.42	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.55	H	57.82	-2.96	54.86	Peak	74	54	-19.14	192	1.27
2483.81	H	47.31	-2.96	44.35	Ave	74	54	-9.65	192	1.27
2483.51	V	64.74	-2.96	62.78	Peak	74	54	-11.22	166	1.15
2483.55	V	52.87	-2.96	49.91	Ave	74	54	-4.09	166	1.15

Test Mode 13:

Modulation Standard: 802.11gn, HT40 (13.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 3

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.97	H	56.49	-3.30	53.19	Peak	74	54	-20.81	192	1.27
2389.97	H	44.28	-3.30	40.98	Ave	74	54	-13.02	192	1.27
2388.23	V	66.31	-3.30	63.01	Peak	74	54	-10.99	166	1.15
2389.97	V	52.97	-3.30	49.67	Ave	74	54	-4.33	166	1.15

b) Channel 9

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2485.07	H	56.13	-2.95	53.18	Peak	74	54	-20.83	192	1.27
2484.12	H	43.94	-2.96	40.98	Ave	74	54	-13.02	192	1.27
2484.19	V	65.89	-2.96	62.93	Peak	74	54	-11.07	166	1.15
2483.74	V	52.88	-2.96	49.92	Ave	74	54	-4.08	166	1.15

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 Mode 14:

Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.46	H	55.74	-3.30	52.44	Peak	74	54	-21.56	192	1.27
2389.87	H	44.83	-3.30	41.53	Ave	74	54	-12.47	192	1.27
2388.95	V	65.39	-3.30	62.09	Peak	74	54	-11.91	166	1.15
2389.97	V	52.81	-3.30	49.51	Ave	74	54	-4.49	166	1.15

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.55	H	57.33	-2.96	54.37	Peak	74	54	-19.63	192	1.27
2483.81	H	47.89	-2.96	44.93	Ave	74	54	-9.07	192	1.27
2483.51	V	64.66	-2.96	61.70	Peak	74	54	-12.30	166	1.15
2483.55	V	52.81	-2.96	49.85	Ave	74	54	-4.15	166	1.15

Test Mode 15

Modulation Standard: 802.11gn, HT40 (13.5Mbps)

Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa

a) Channel 3

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.97	H	56.49	-3.30	53.19	Peak	74	54	-20.81	192	1.27
2389.76	H	45.73	-3.30	42.43	Ave	74	54	-11.57	192	1.27
2388.23	V	67.92	-3.30	64.62	Peak	74	54	-9.38	166	1.15
2389.97	V	52.10	-3.30	48.80	Ave	74	54	-5.20	166	1.15

b) Channel 9

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBu V/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2485.07	H	56.18	-2.95	53.23	Peak	74	54	-20.77	192	1.27
2484.12	H	44.83	-2.96	41.87	Ave	74	54	-12.13	192	1.27
2484.19	V	64.88	-2.96	61.92	Peak	74	54	-12.08	166	1.15
2483.74	V	51.93	-2.96	48.97	Ave	74	54	-5.03	166	1.15

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 (For 802.11b/g device)

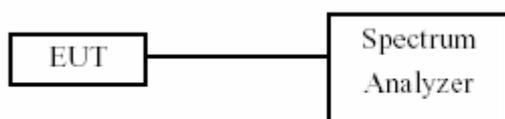
9.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

9.2 Test Procedures

- The transmitter output was connected to spectrum analyzer.
- 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.
- The power spectral density was measured and recorded.
- The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

9.3 Test Setup Layout :



9.4 List of Measuring Equipment Used

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

- (1) Modulation Standard: IEEE 802.11b (11Mbps), ANT-L

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-6.88
06	2437	-7.35
11	2462	-7.83

- (2) Modulation Standard: IEEE 802.11g (6Mbps), ANT-L

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-8.75
06	2437	-8.51
11	2462	-8.95

- (3) Modulation Standard: IEEE 802.11b (11Mbps), ANT-M

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-10.06
06	2437	-10.69
11	2462	-10.94

- (4) Modulation Standard: IEEE 802.11g (6Mbps), ANT-M

Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-11.08
06	2437	-5.29
11	2462	-6.34

- (5) Modulation Standard: IEEE 802.11b (11Mbps), ANT-R
 Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-7.63
06	2437	-8.10
11	2462	-8.21

- (6) Modulation Standard: IEEE 802.11g (6Mbps), ANT-R
 Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-3.04
06	2437	-2.71
11	2462	-2.73

- (7) Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R
 Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)		
		ANT-L	ANT-R	Total
01	2412	-19.26	-18.90	-16.07
06	2437	-18.96	-18.82	-15.88
11	2462	-16.37	-18.63	-14.34

- (8) Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R
 Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)		
		ANT-L	ANT-R	Total
03	2422	-11.36	-10.81	-8.07
06	2437	-11.37	-10.77	-8.05
09	2452	-11.62	-11.09	-8.34

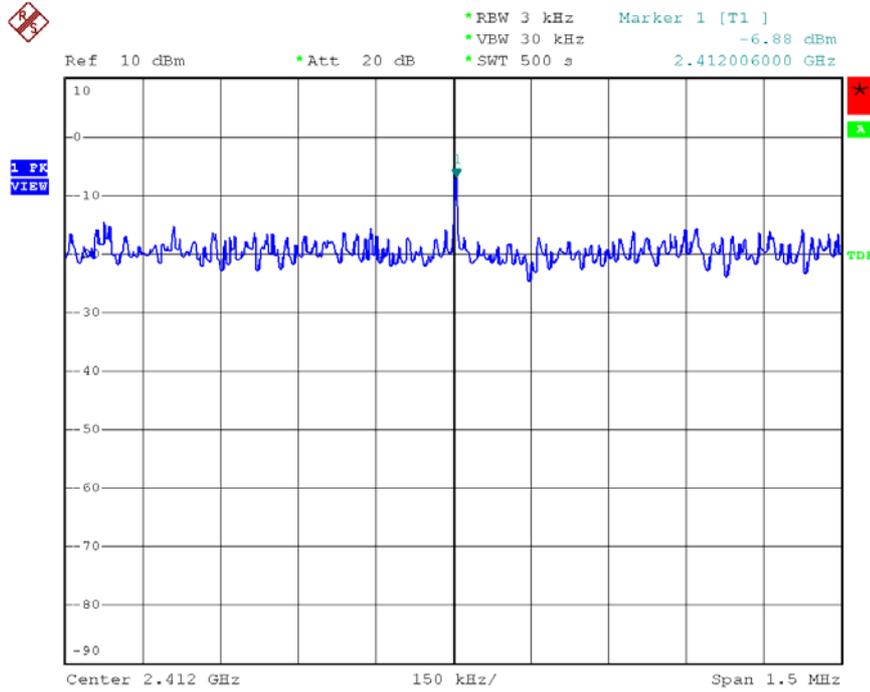
- (9) Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps), ANT-ALL
 Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)			
		ANT-L	ANT-M	ANT-R	Total
01	2412	-10.84	-12.51	-10.98	
06	2437	-10.41	-12.88	-10.83	
11	2462	-11.16	-14.67	-11.80	

- (10) Modulation Standard: IEEE 802.11gn, HT20 (6.5Mbps), ANT-ALL
 Test Date: May. 05, 2008 Temperature: 20 Humidity: 60% Atmospheric pressure: 1008 hPa

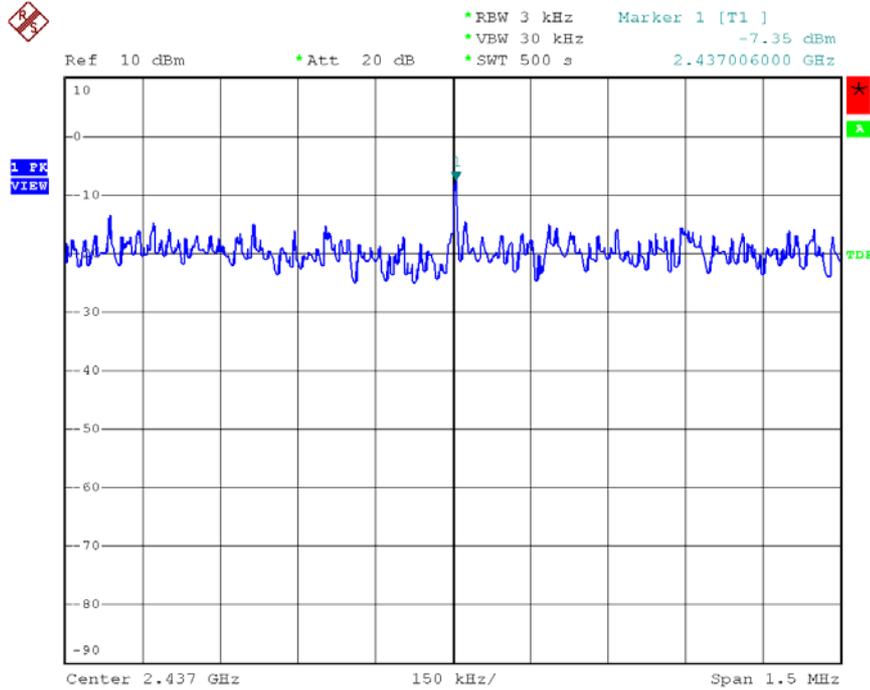
Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)			
		ANT-L	ANT-M	ANT-R	Total
03	2422	-8.35	-14.45	-11.19	
06	2437	-8.58	-15.35	-11.16	
09	2452	-8.59	-14.90	-11.48	

Modulation Standard: 802.11b (11Mbps), ANT-L
 Channel: 01



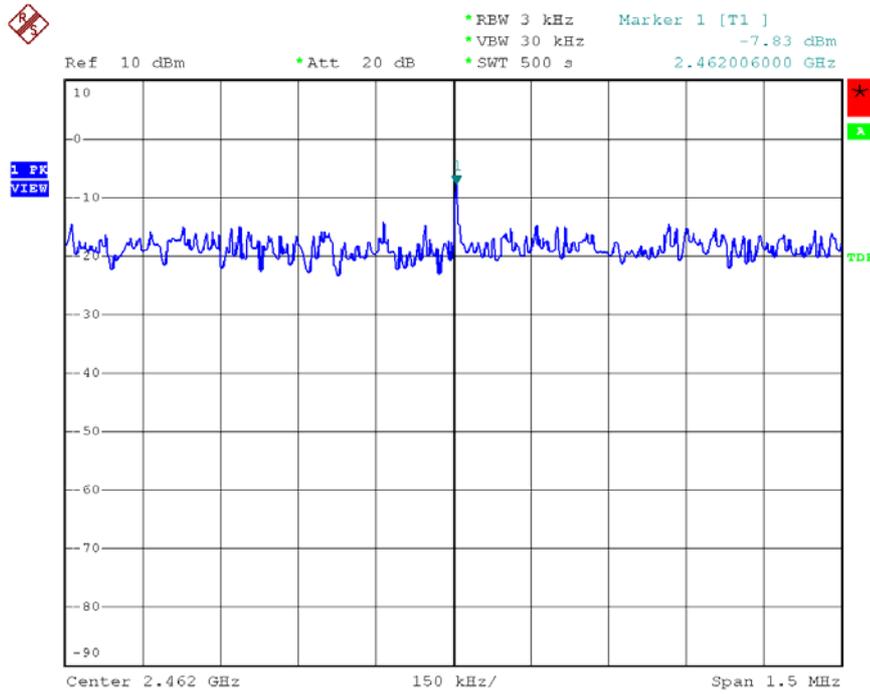
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Modulation Standard: 802.11b (11Mbps), ANT-L
 Channel: 06



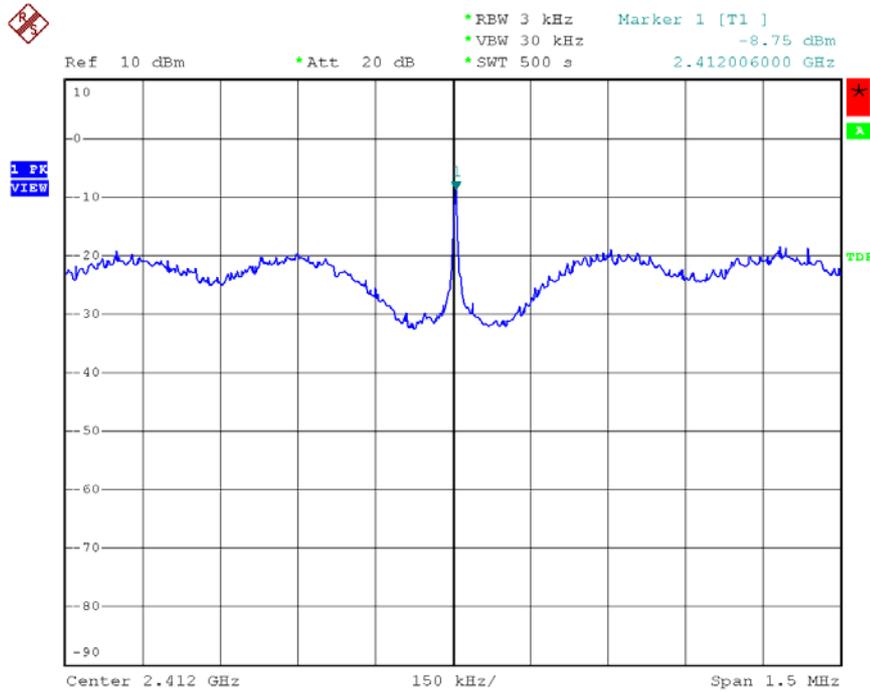
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Modulation Standard: 802.11b (11Mbps), ANT-L
 Channel: 11



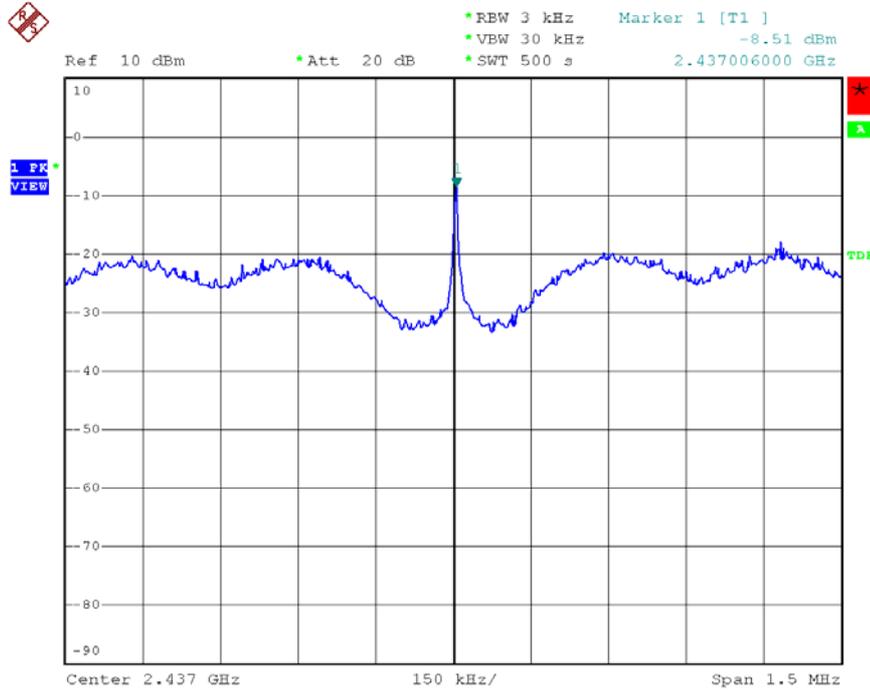
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Modulation Standard: 802.11g (6Mbps), ANT-L
 Channel: 01



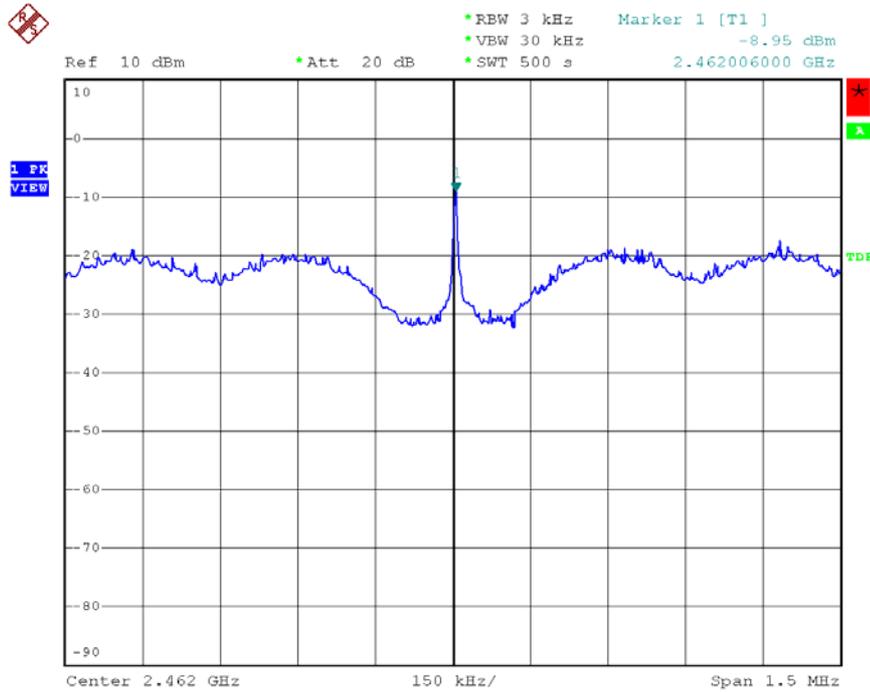
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Modulation Standard: 802.11g (6Mbps), ANT-L
Channel: 06



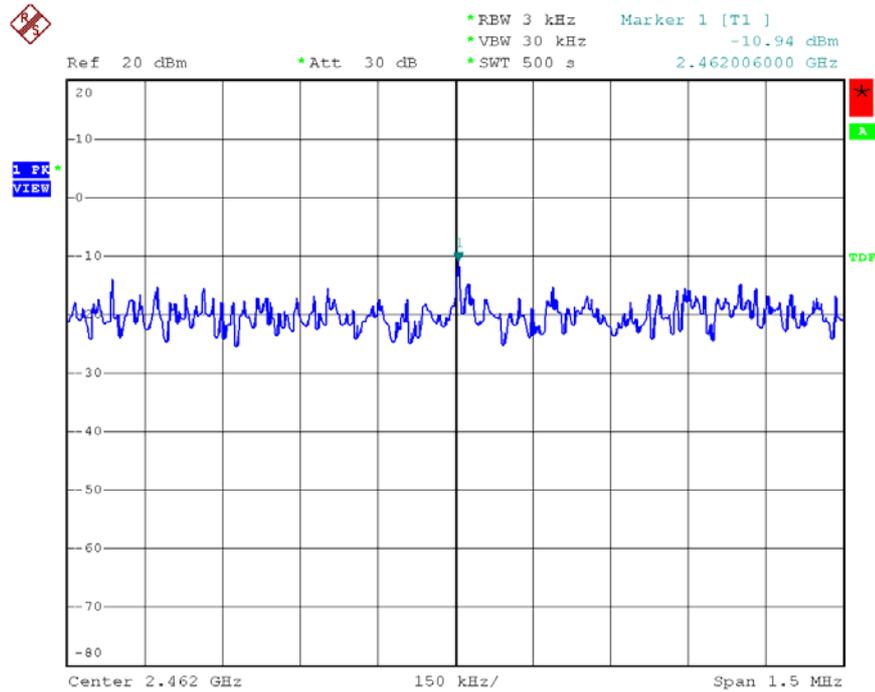
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Channel: 11



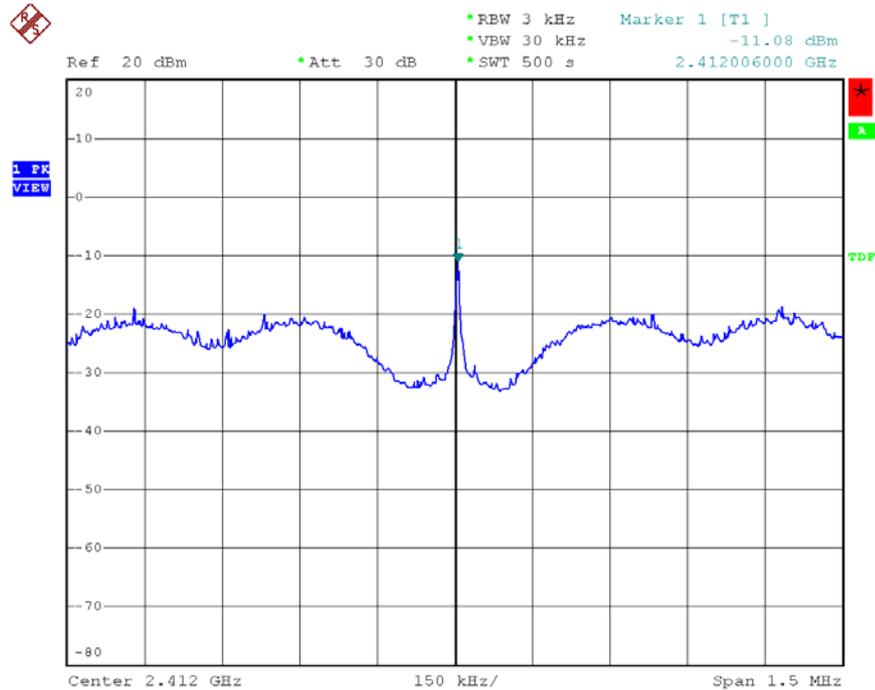
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Modulation Standard: 802.11b (11Mbps), ANT-M
 Channel: 11



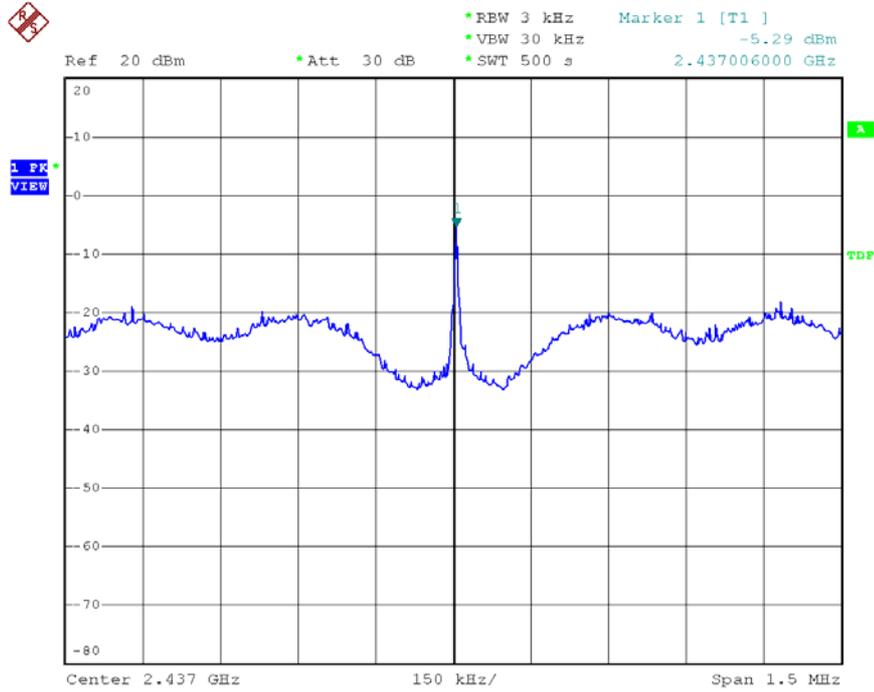
Date: 25.MAR.2008 17:02:21

Modulation Standard: 802.11g (6Mbps), ANT-M
 Channel: 01



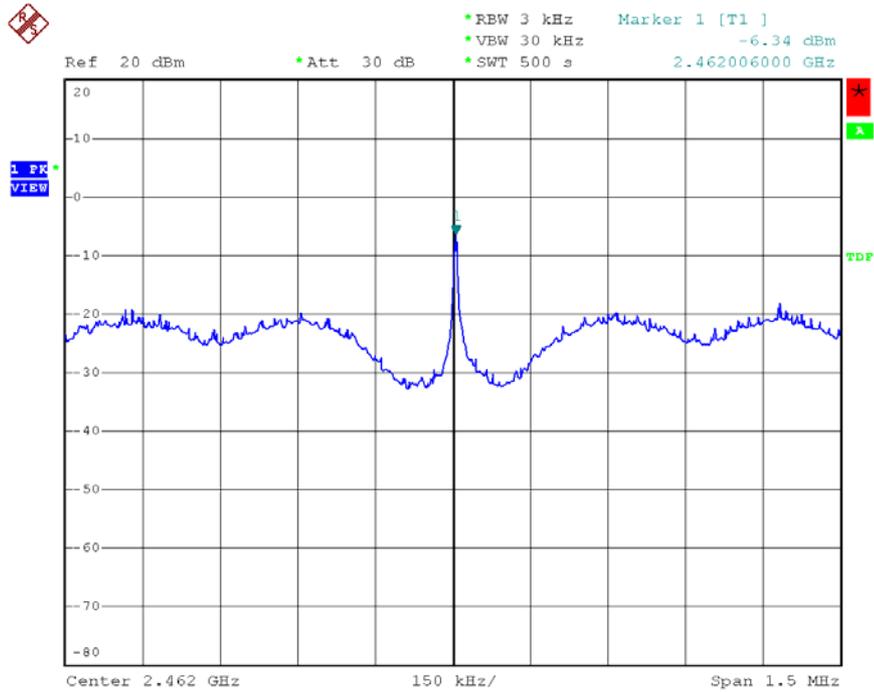
Date: 25.MAR.2008 16:26:27

Modulation Standard: 802.11g (6Mbps), ANT-M
Channel: 06



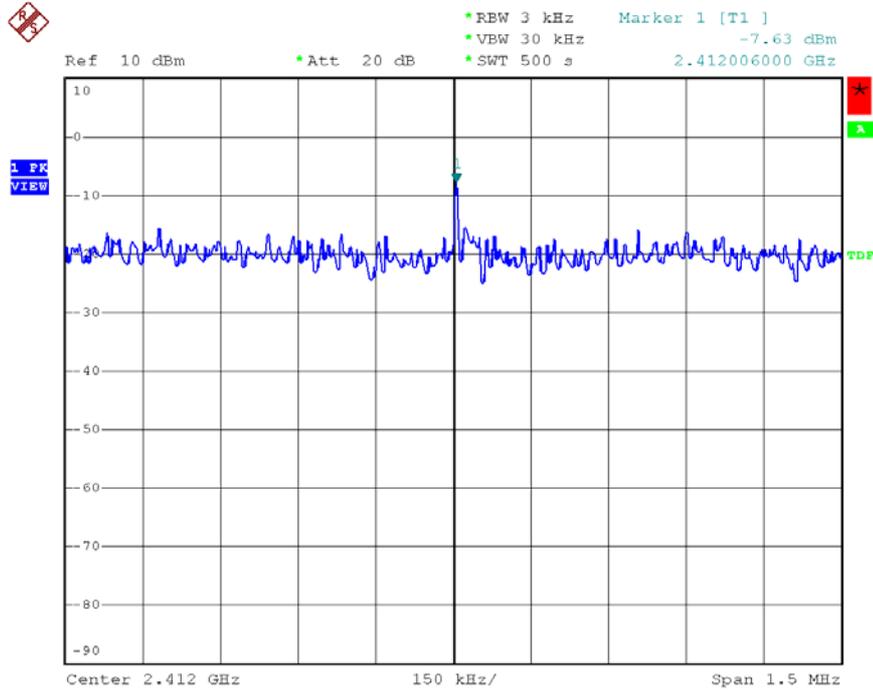
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Modulation Standard: 802.11g (6Mbps), ANT-M
Channel: 11



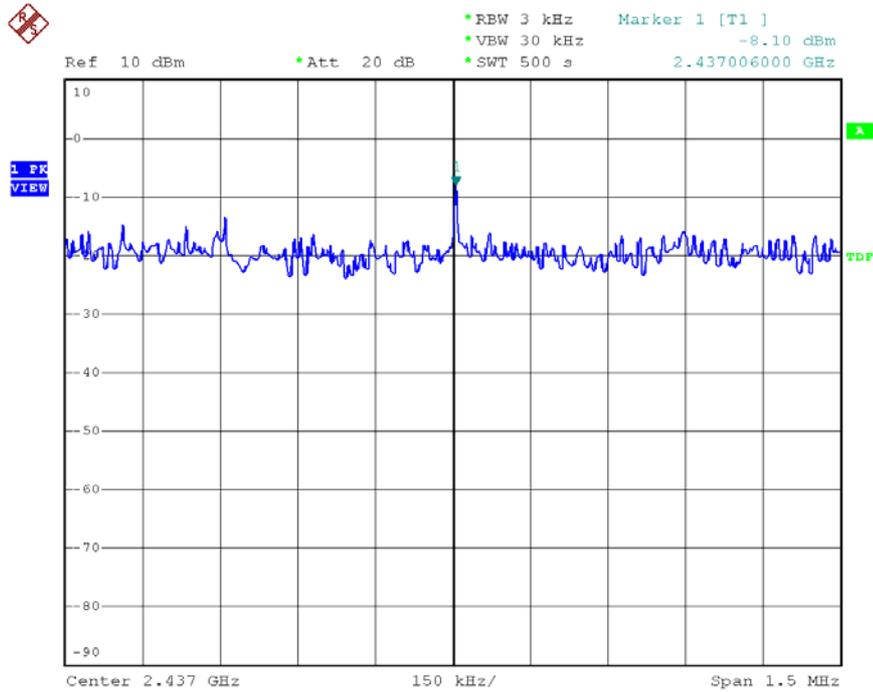
Date: 25.MAR.2008 15:52:52

Modulation Standard: 802.11b (11Mbps), ANT-R
Channel: 01



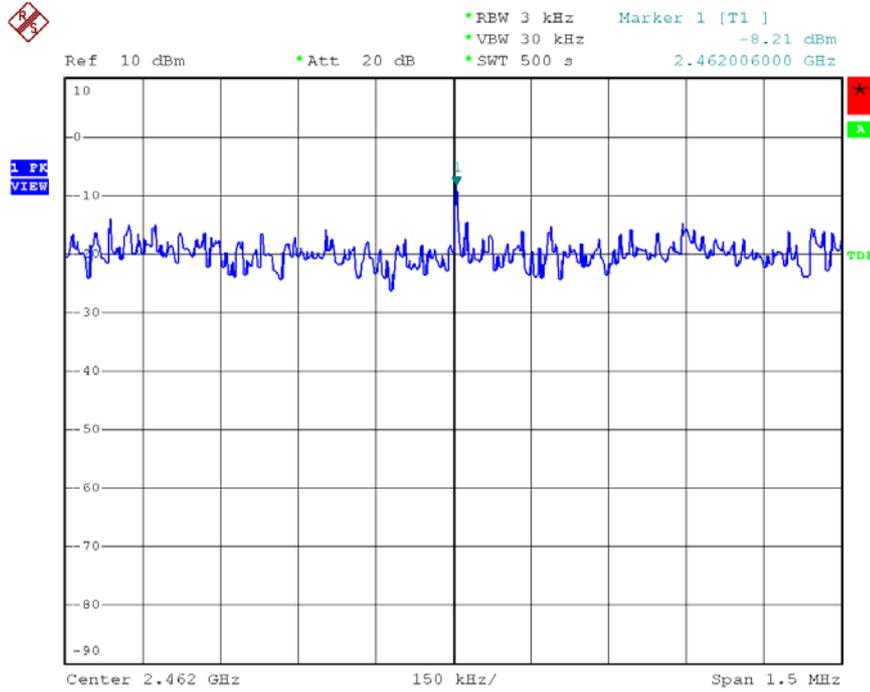
Date: 25.MAR.2008 14:10:49

Modulation Standard: 802.11b (11Mbps), ANT-R
Channel: 06



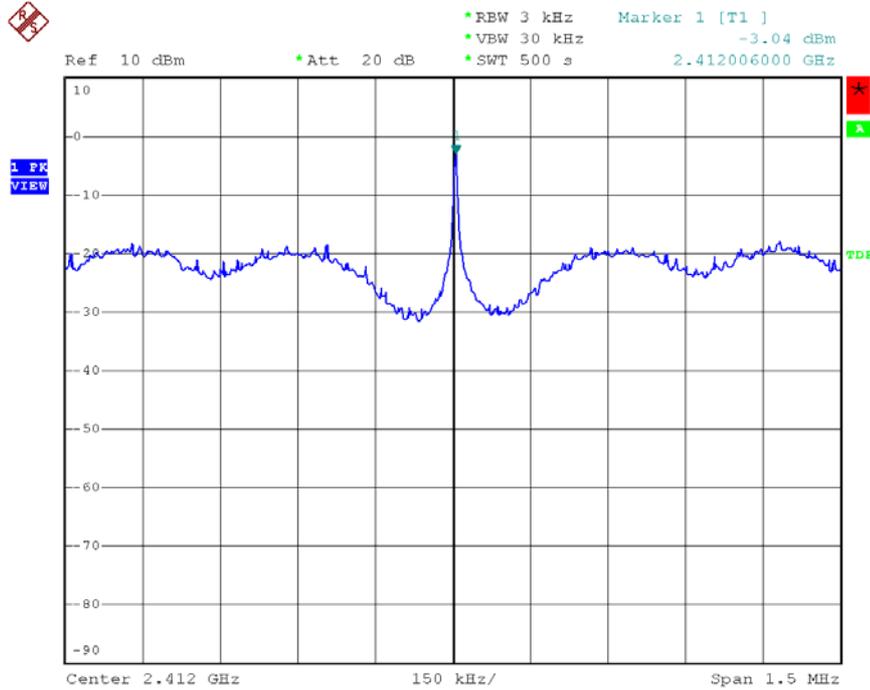
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Modulation Standard: 802.11b (11Mbps), ANT-R
Channel: 11



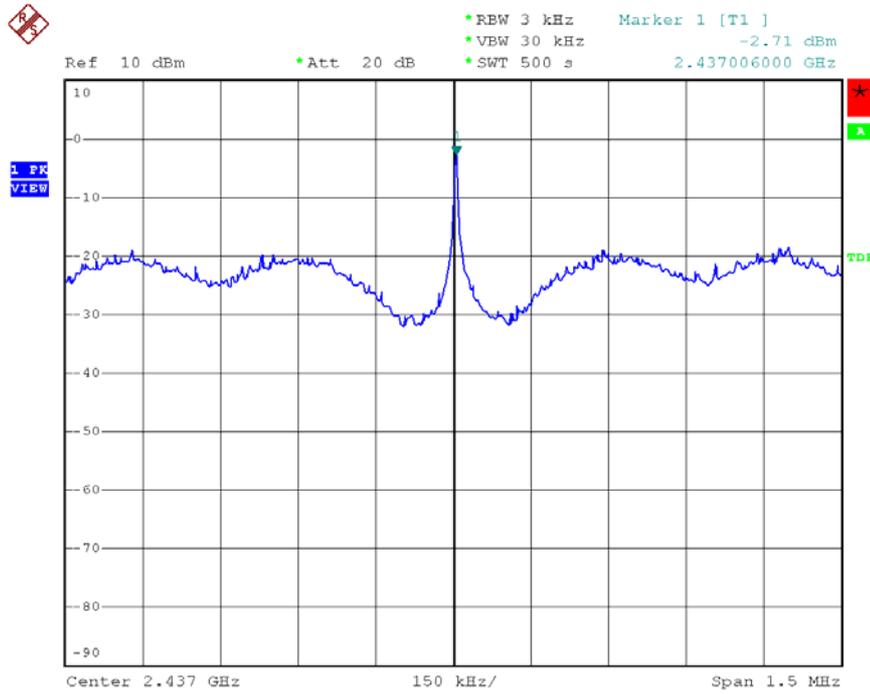
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Modulation Standard: 802.11g (6Mbps), ANT-R
Channel: 01



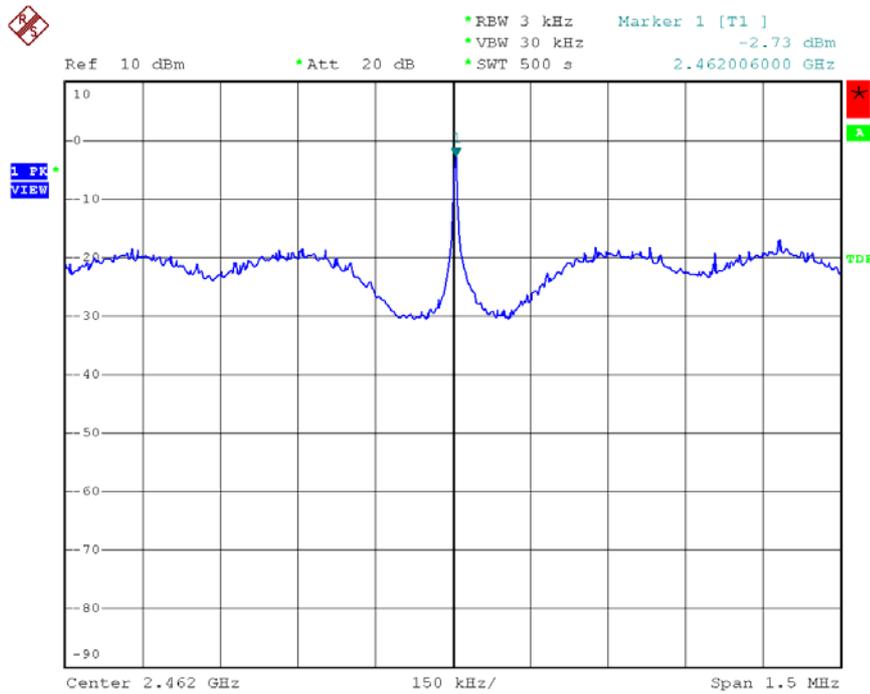
Date: 25.MAR.2008 14:00:07

Modulation Standard: 802.11g (6Mbps), ANT-R
Channel: 06



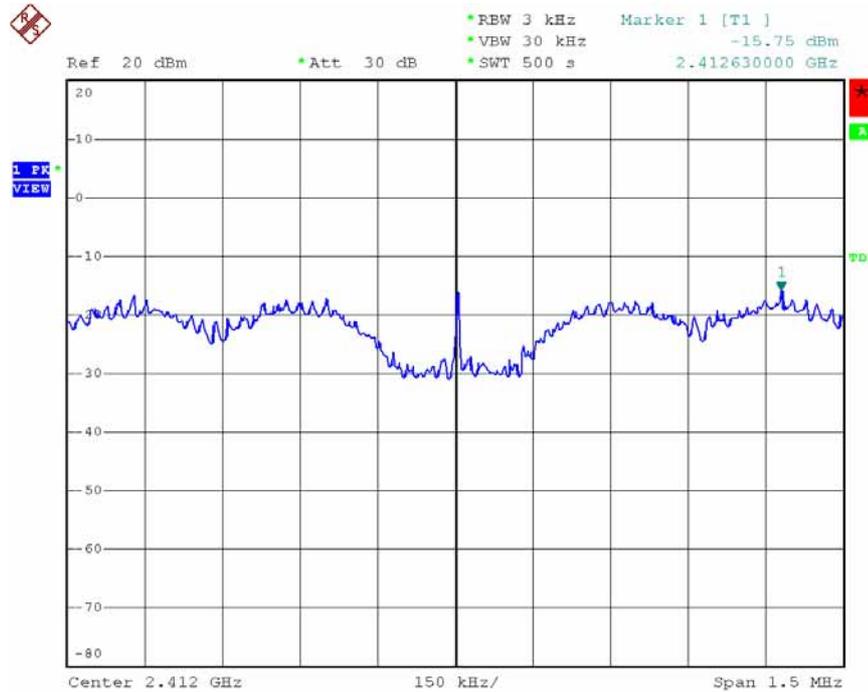
Date: 25.MAR.2008 13:50:23

Modulation Standard: 802.11g (6Mbps), ANT-R
Channel: 11



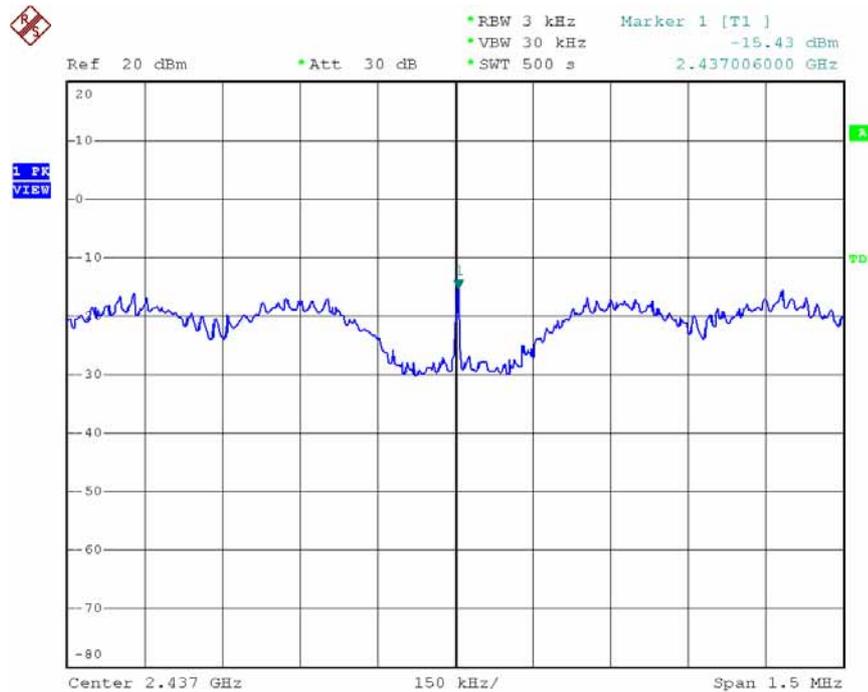
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Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R (ANT-L)
 Channel: 01



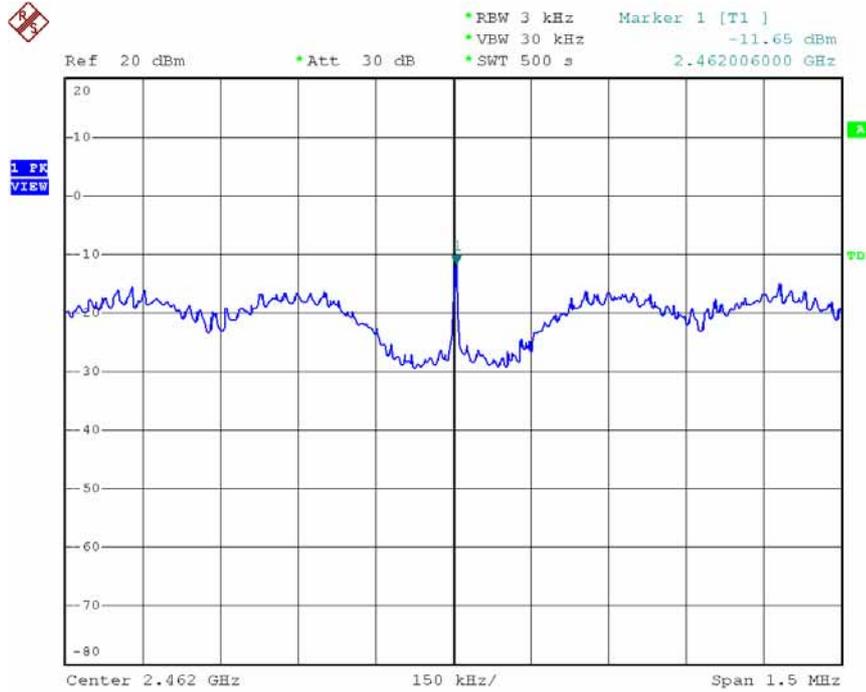
Date: 29.APR.2008 17:21:06

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R (ANT-L)
 Channel: 06



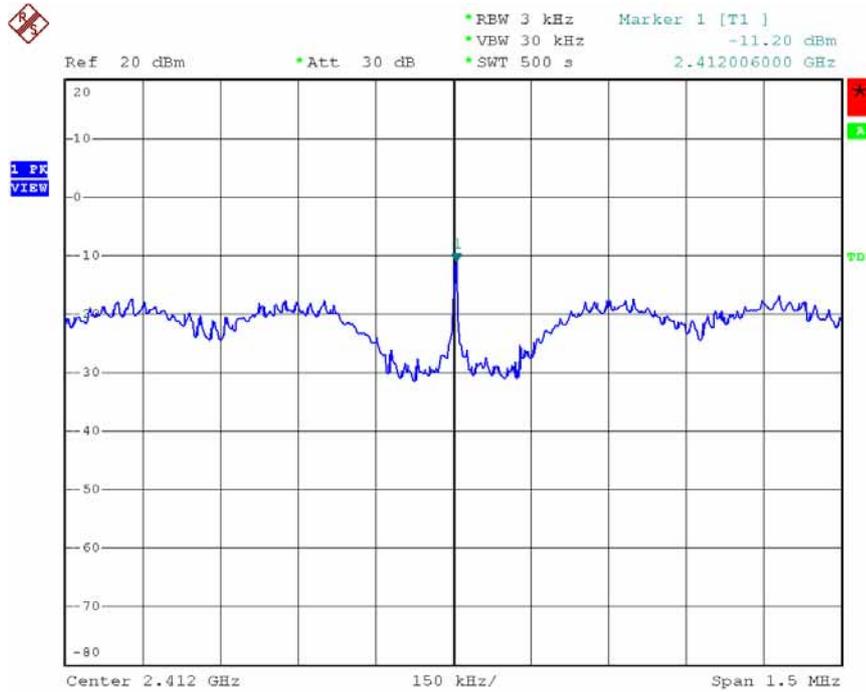
Date: 29.APR.2008 18:12:33

Modulation Standard: 802.11gn, HT20, HT20 (6.5Mbps), ANT-L + ANT-R (ANT-L)
 Channel: 11



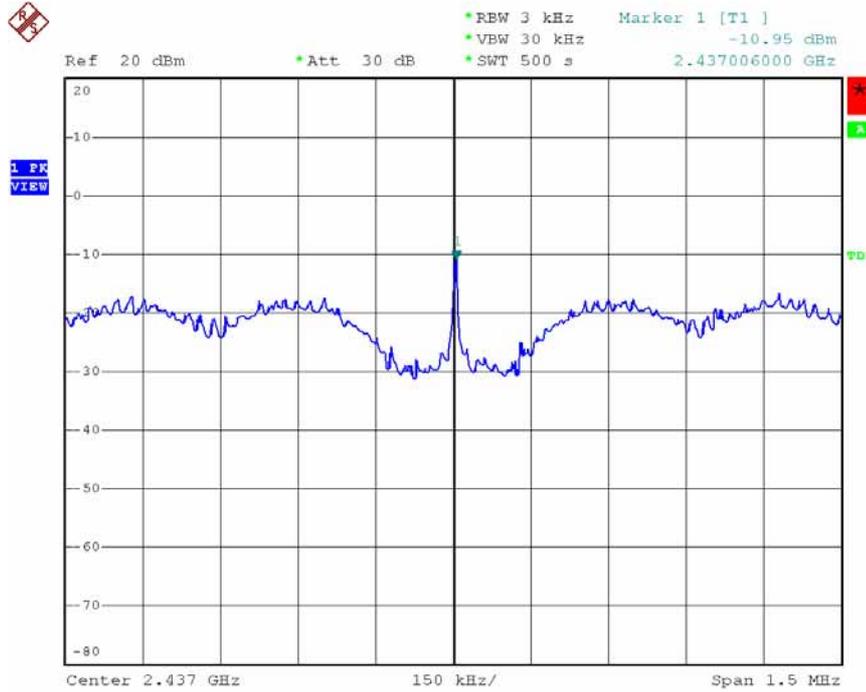
Date: 29.APR.2008 18:56:03

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R (ANT-R)
 Channel: 01



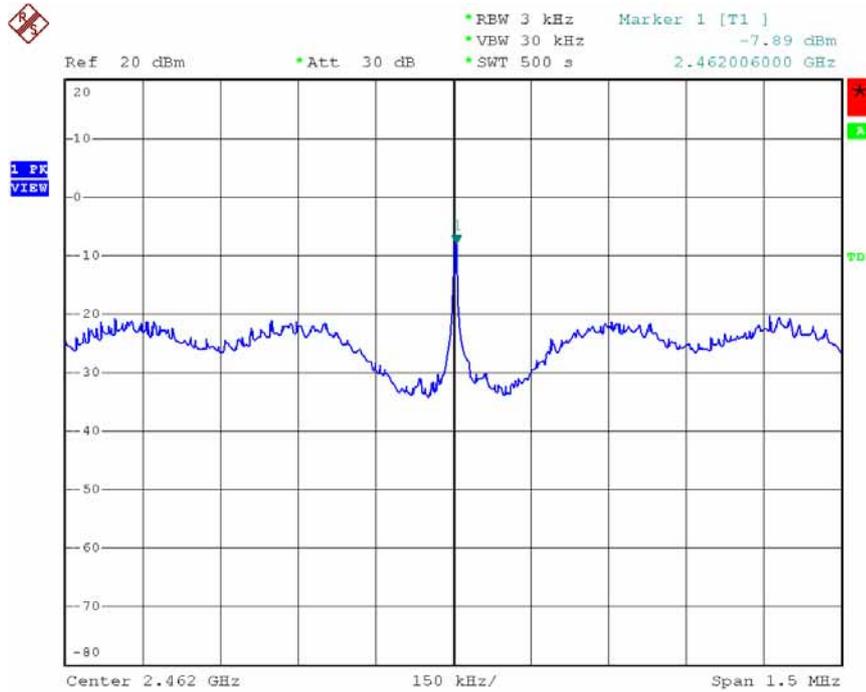
Date: 29.APR.2008 17:30:23

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R (ANT-R)
 Channel: 06



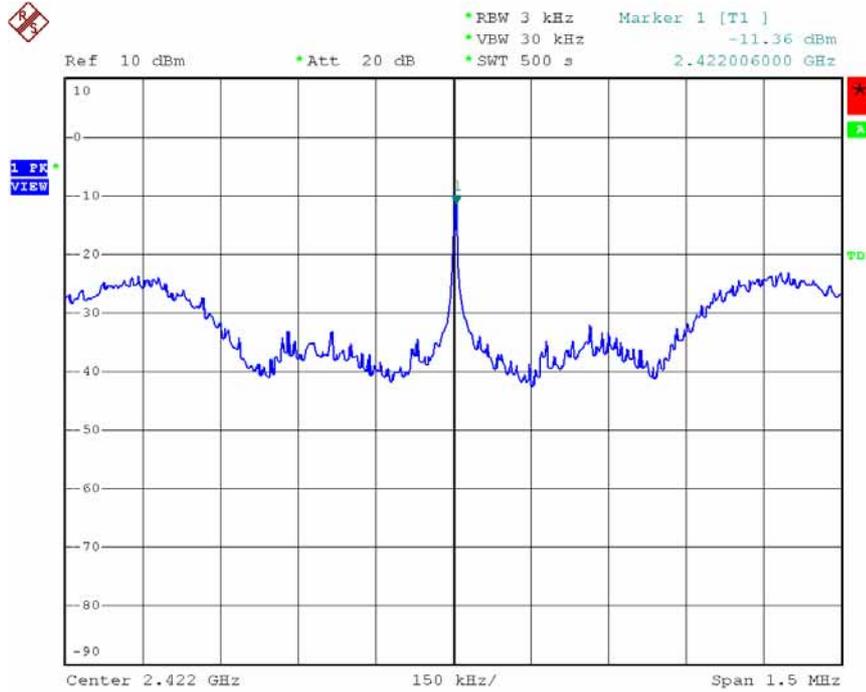
Date: 29.APR.2008 17:42:13

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-L + ANT-R (ANT-R)
 Channel: 11



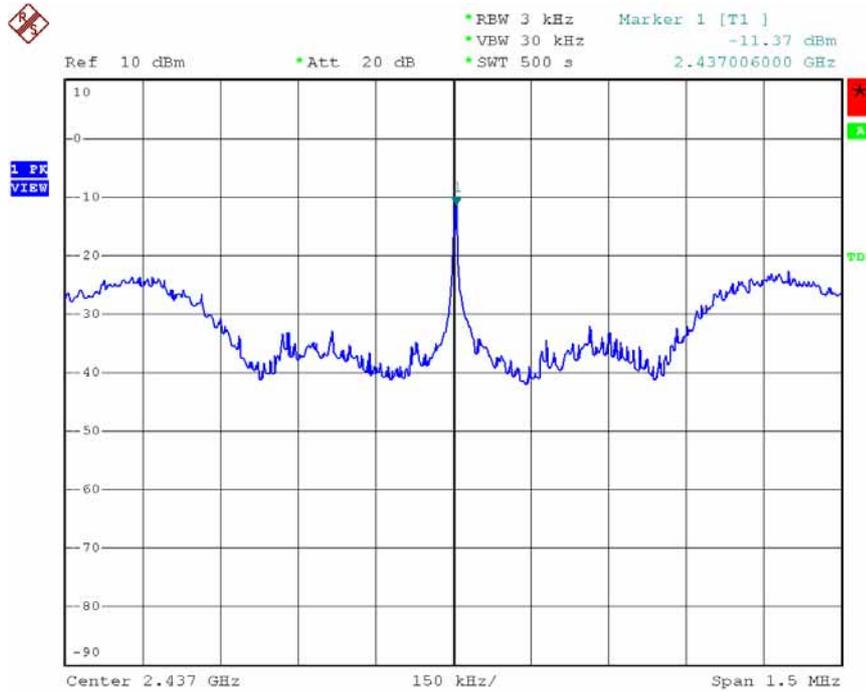
Date: 28.MAR.2008 16:17:02

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R (ANT-L)
Channel: 03



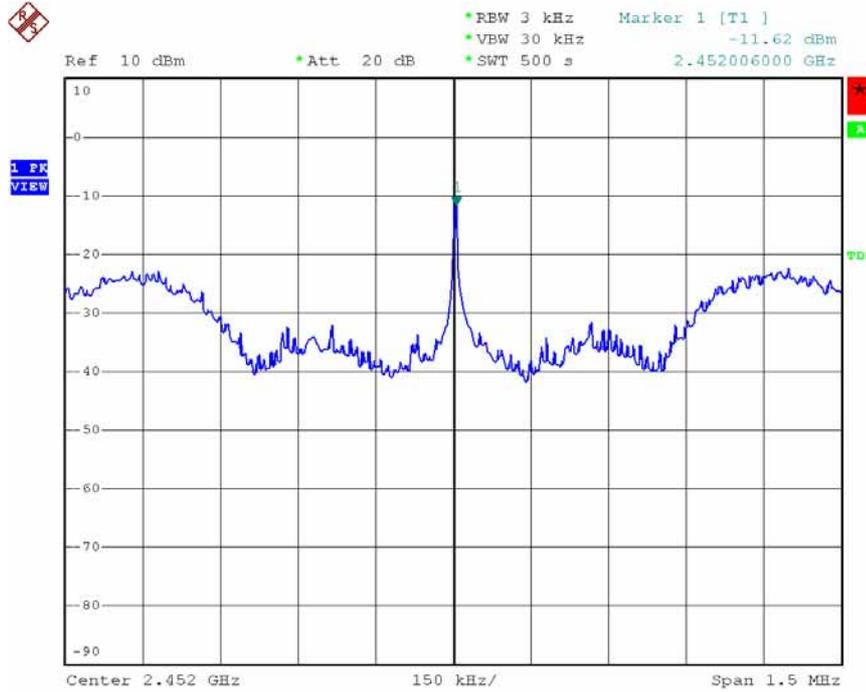
Date: 30.APR.2008 11:53:53

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R (ANT-L)
Channel: 06



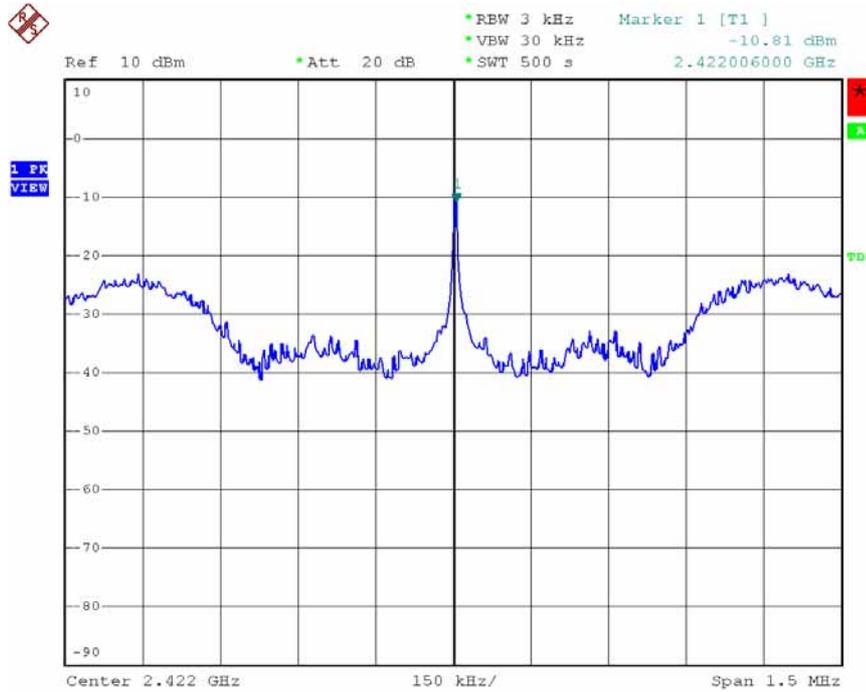
Date: 30.APR.2008 12:05:06

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R (ANT-L)
Channel: 09



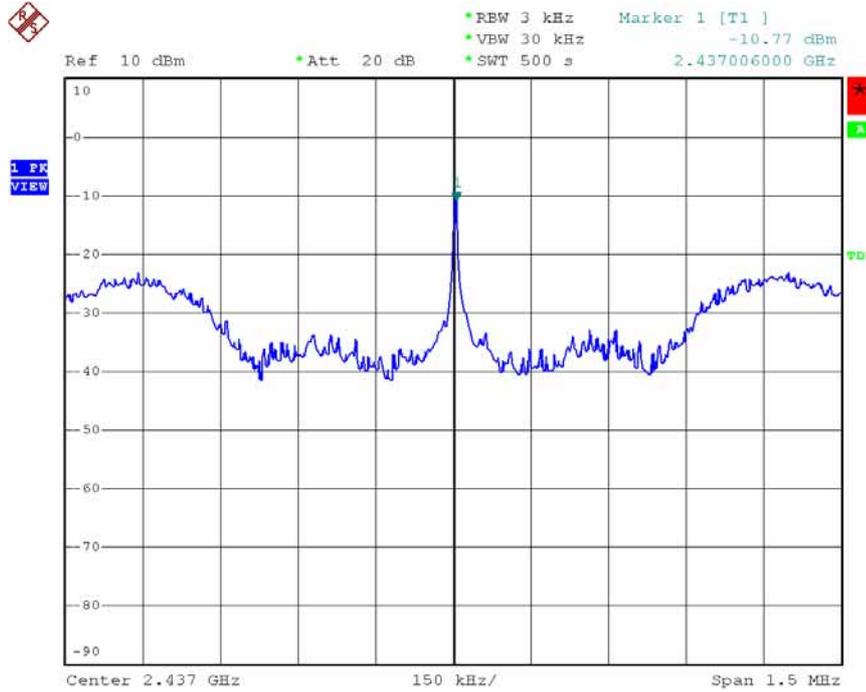
Date: 30.APR.2008 12:14:26

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R (ANT-R)
Channel: 03



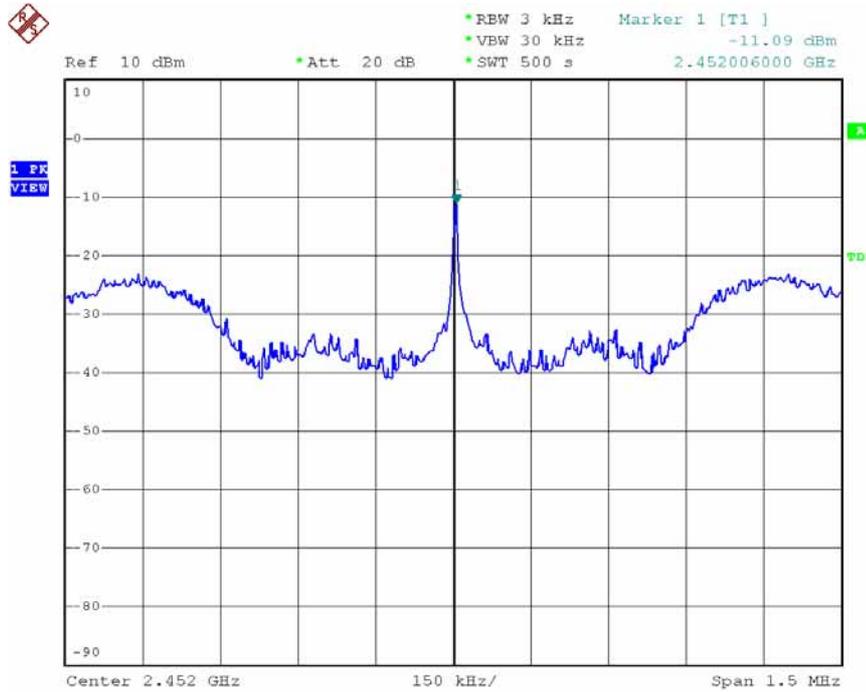
Date: 30.APR.2008 13:47:20

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R (ANT-R)
Channel: 06



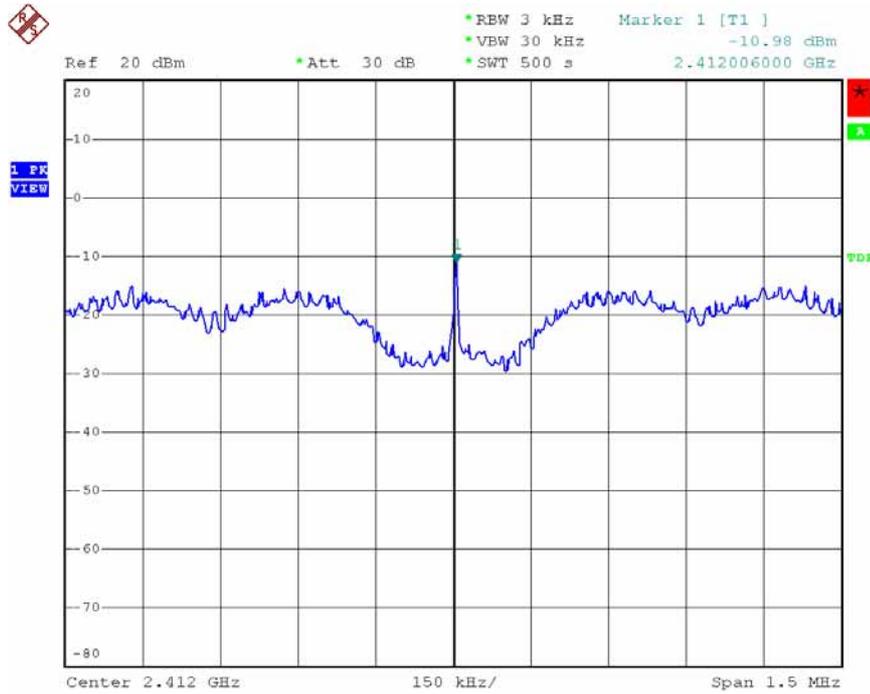
Date: 30.APR.2008 13:31:54

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-L + ANT-R (ANT-R)
Channel: 09



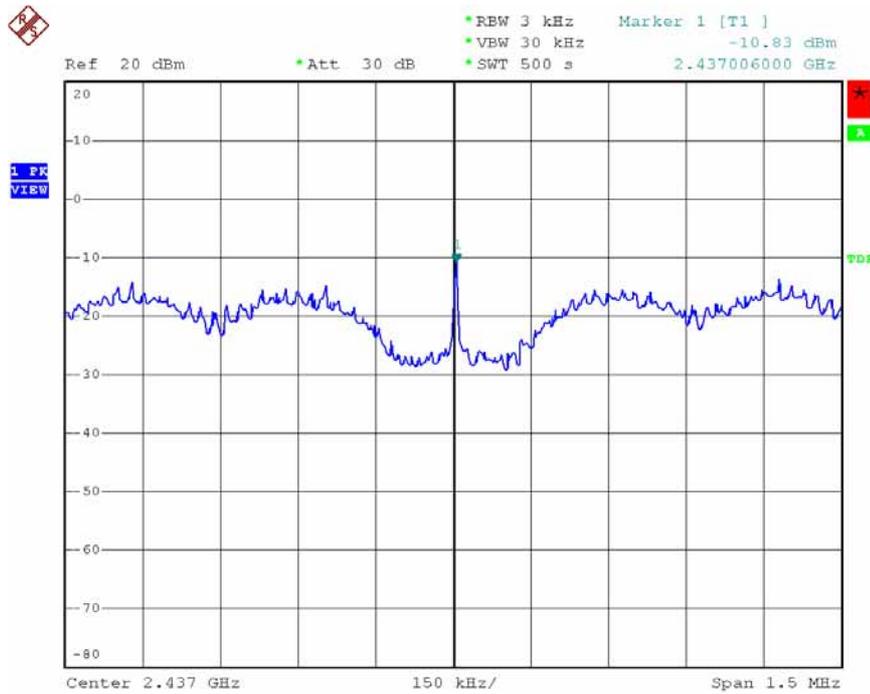
Date: 30.APR.2008 13:17:45

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-L)
 Channel: 01



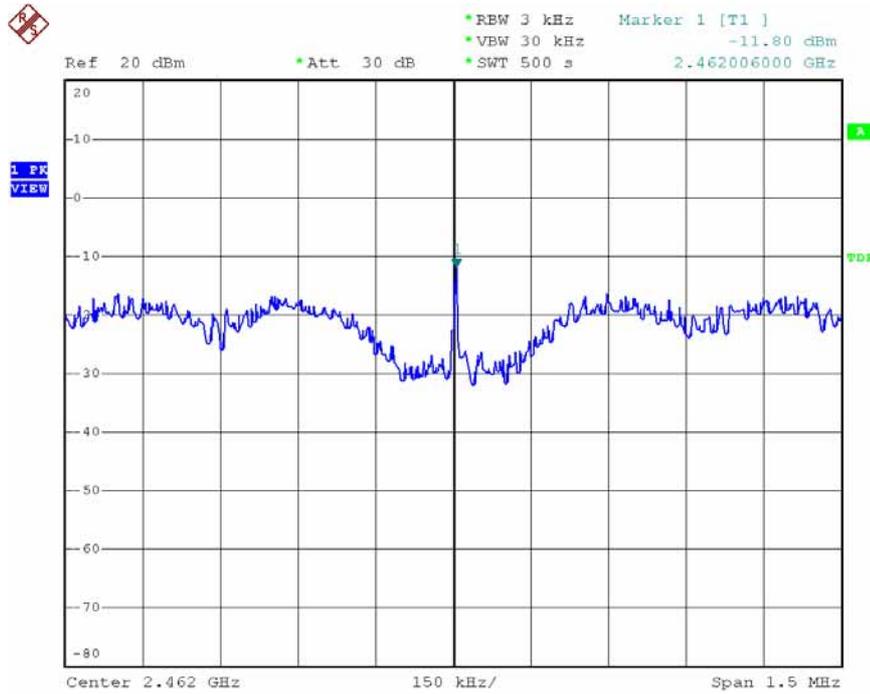
Date: 1.MAY.2008 17:07:07

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-L)
 Channel: 06



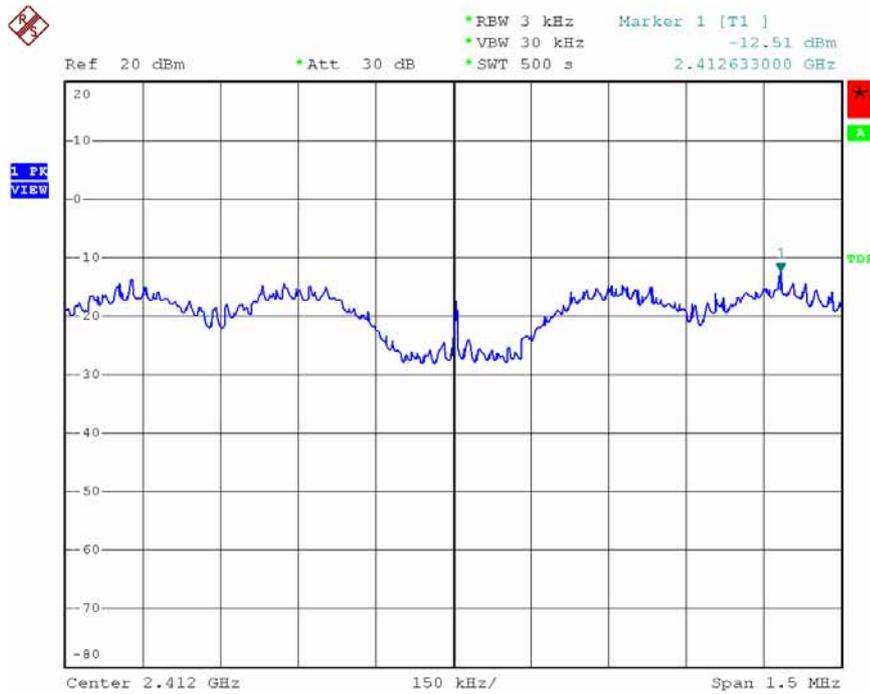
Date: 1.MAY.2008 17:17:15

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-L)
 Channel: 11



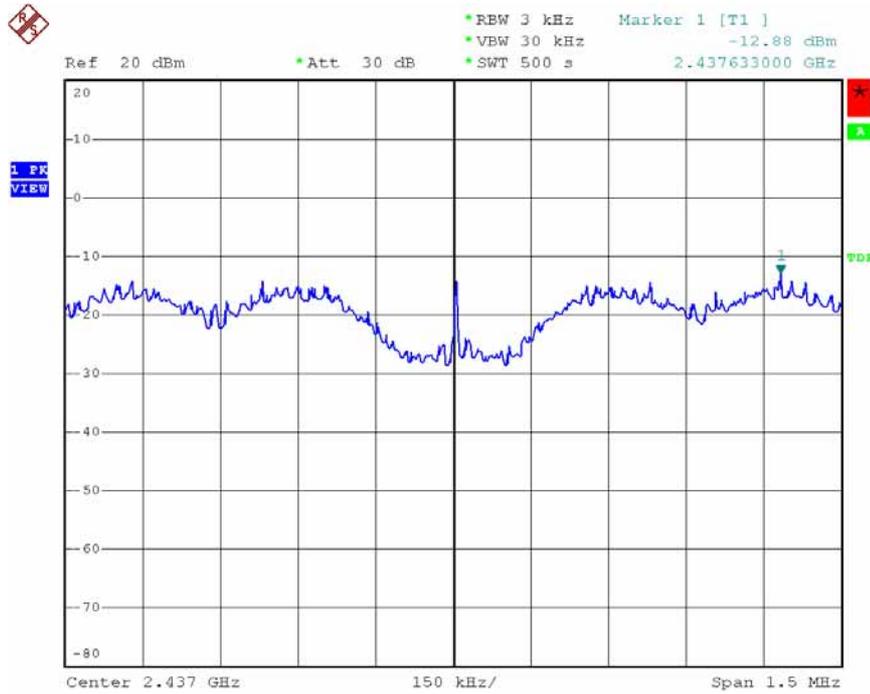
Date: 1.MAY.2008 17:38:48

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-M)
 Channel: 01



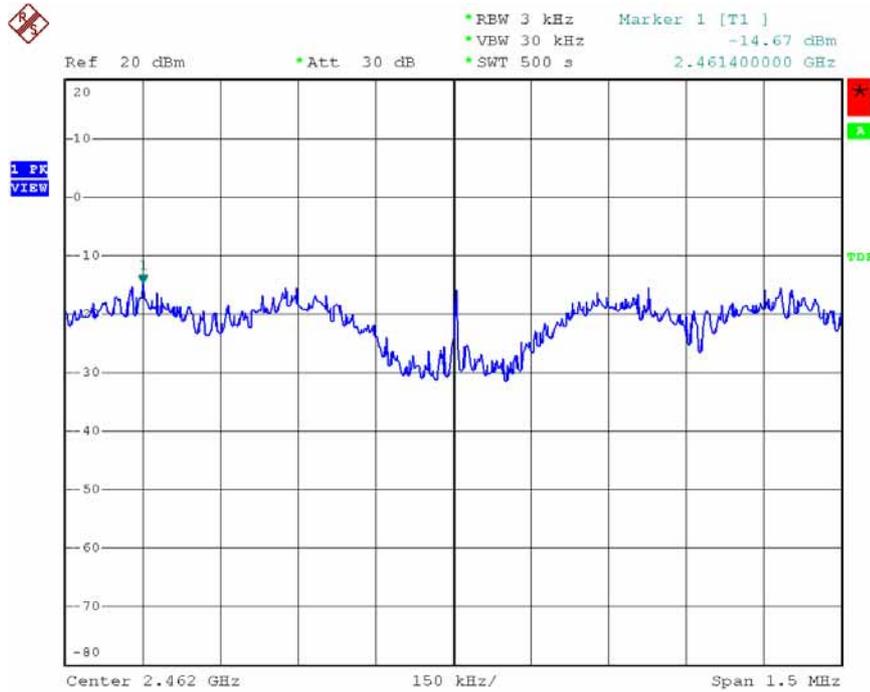
Date: 1.MAY.2008 16:52:20

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-M)
 Channel: 06



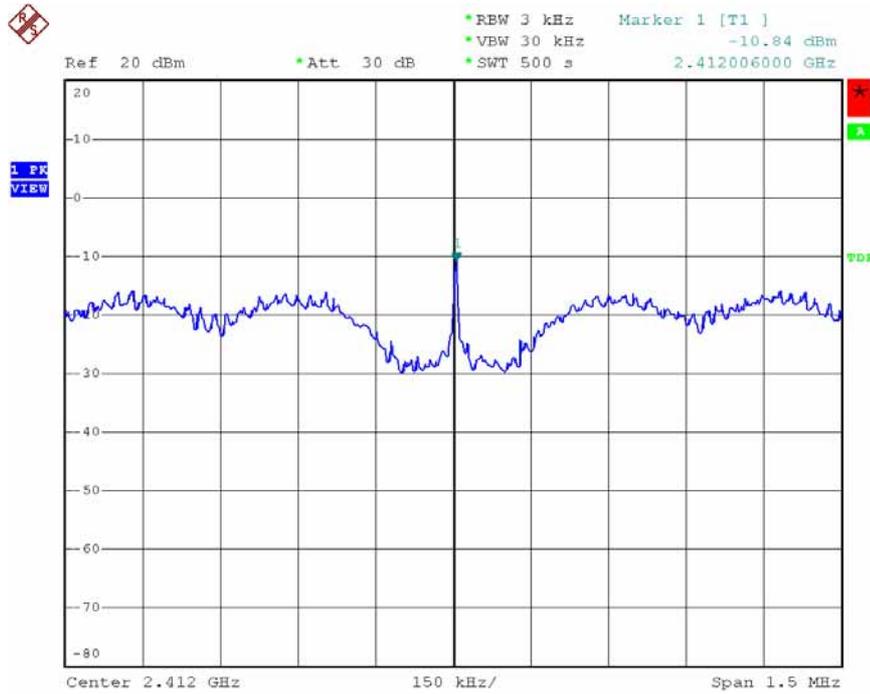
Date: 1.MAY.2008 17:27:07

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-M)
 Channel: 11



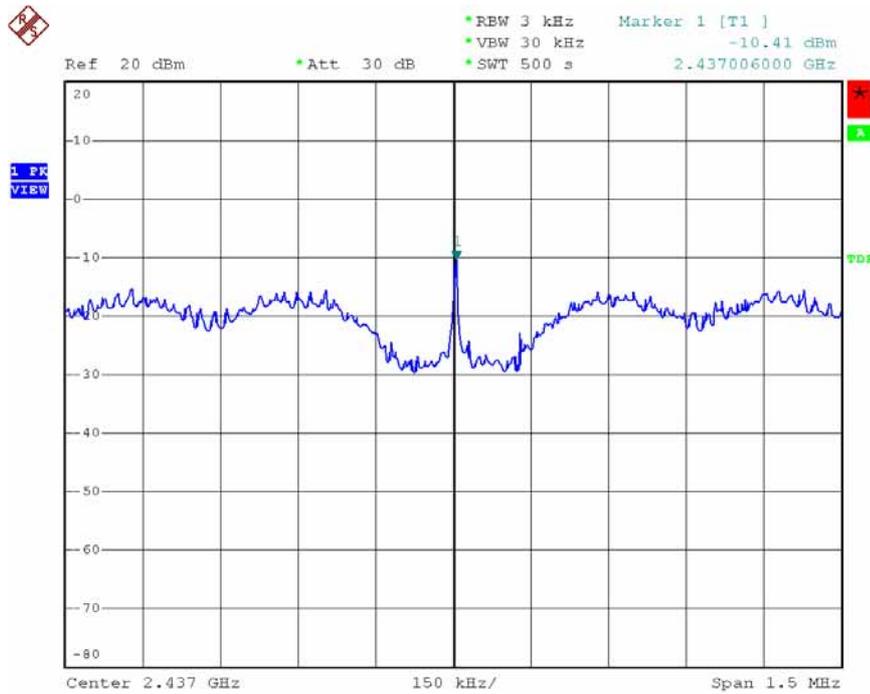
Date: 1.MAY.2008 17:38:02

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-R)
 Channel: 01



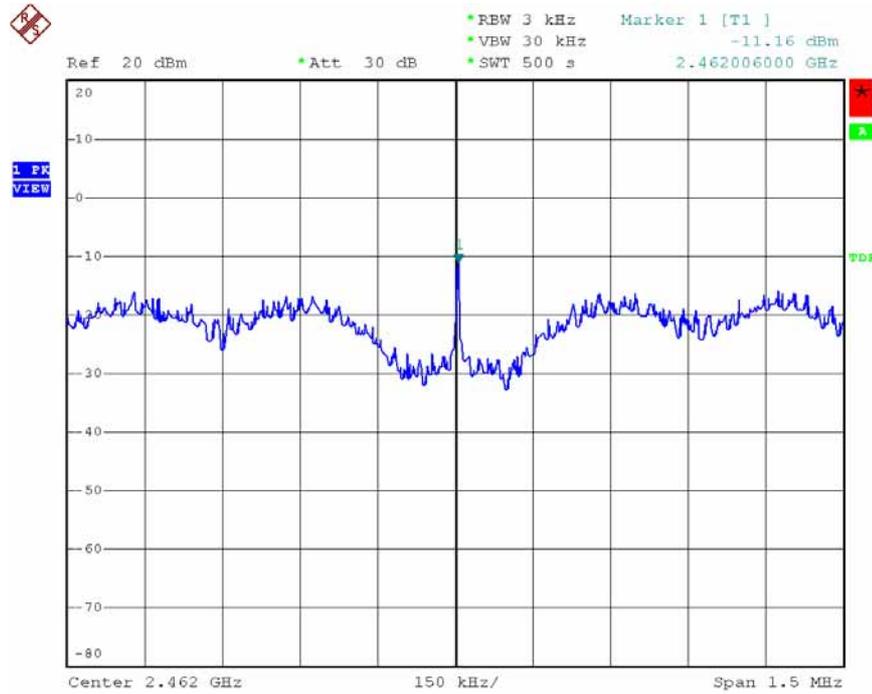
Date: 1.MAY.2008 16:43:19

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-R)
 Channel: 06



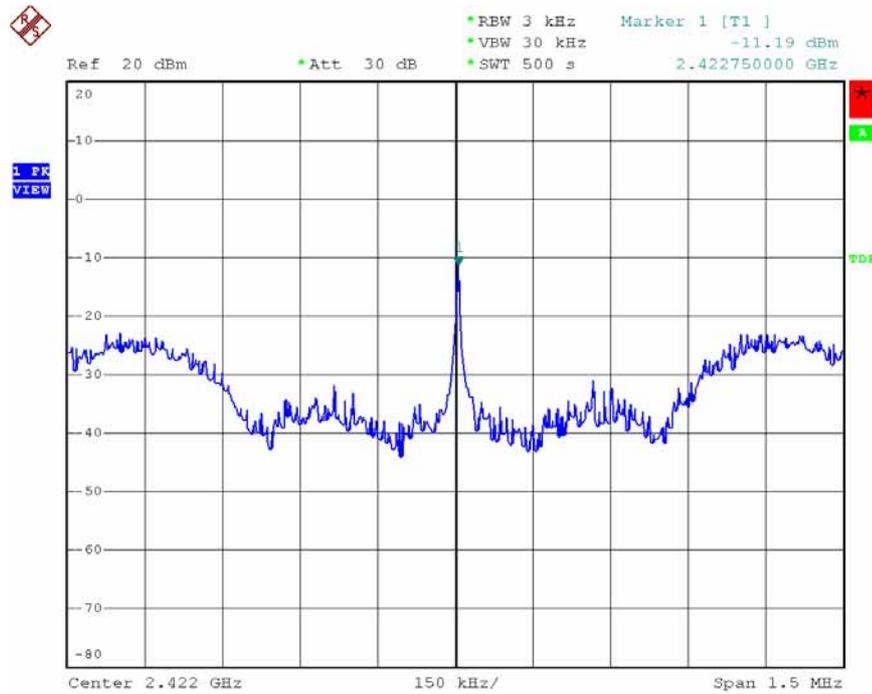
Date: 1.MAY.2008 17:36:15

Modulation Standard: 802.11gn, HT20 (6.5Mbps), ANT-ALL (ANT-R)
 Channel: 11



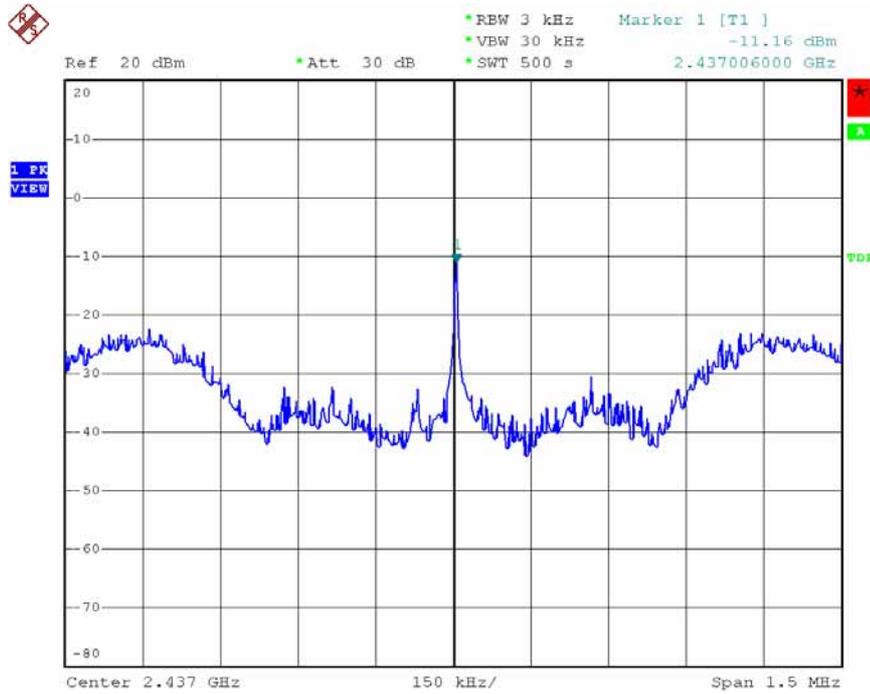
Date: 1.MAY.2008 17:37:24

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-L)
 Channel: 03



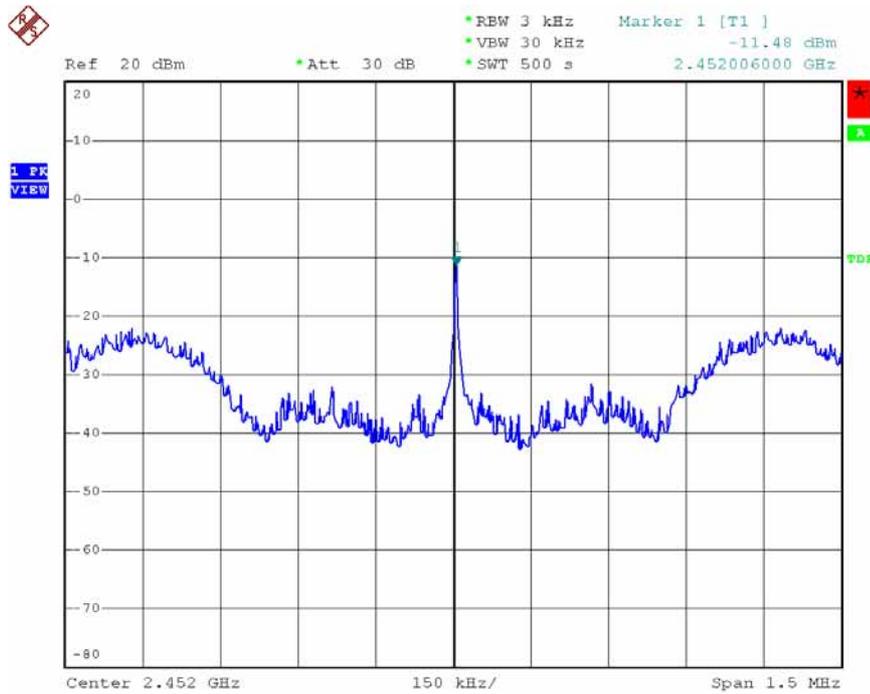
Date: 1.MAY.2008 18:11:42

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-L)
 Channel: 06



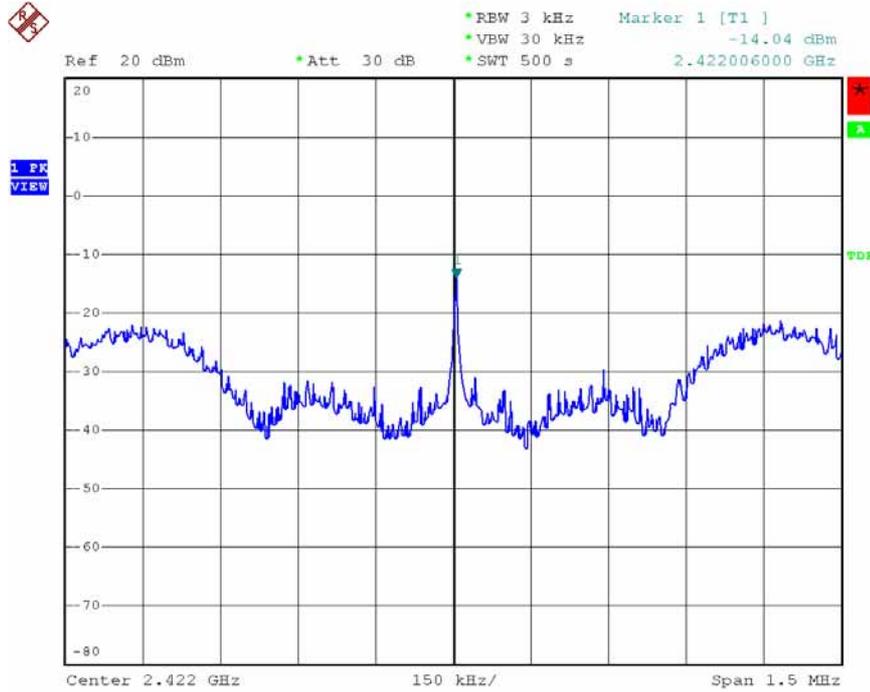
Date: 1.MAY.2008 18:12:21

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-L)
 Channel: 09



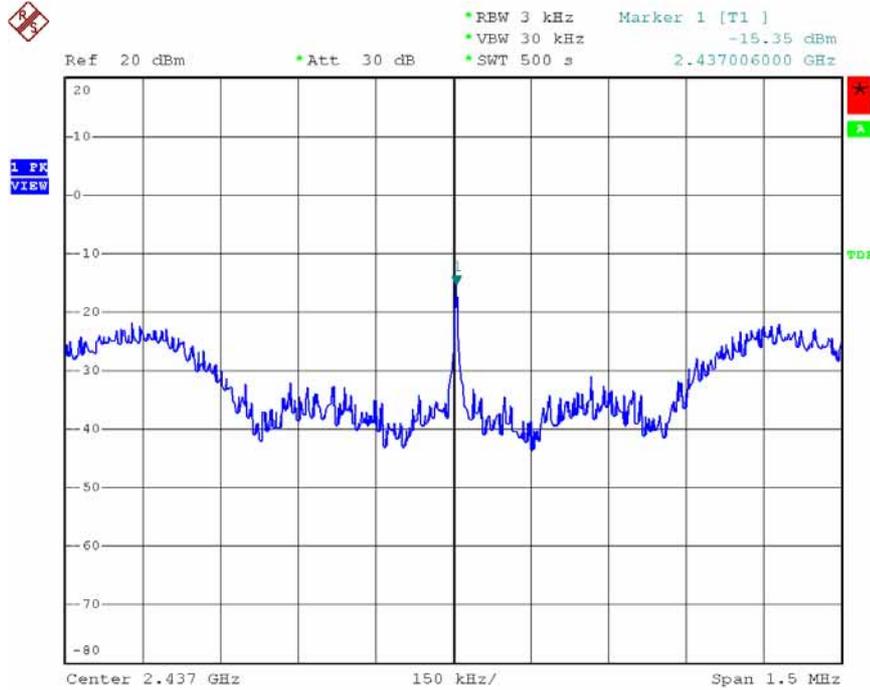
Date: 1.MAY.2008 18:13:09

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-M)
Channel: 03



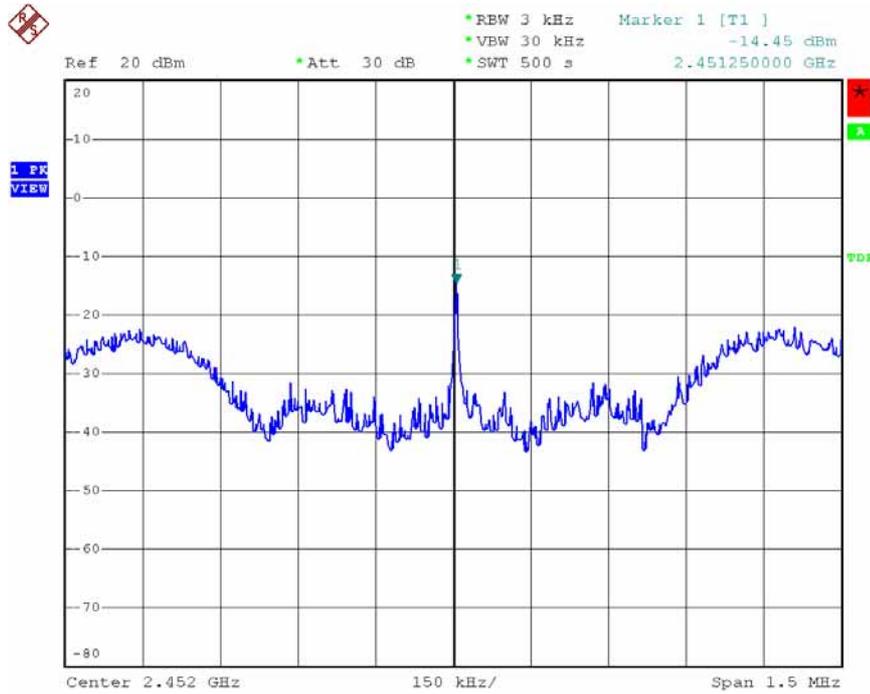
Date: 1.MAY.2008 18:10:32

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-M)
Channel: 06



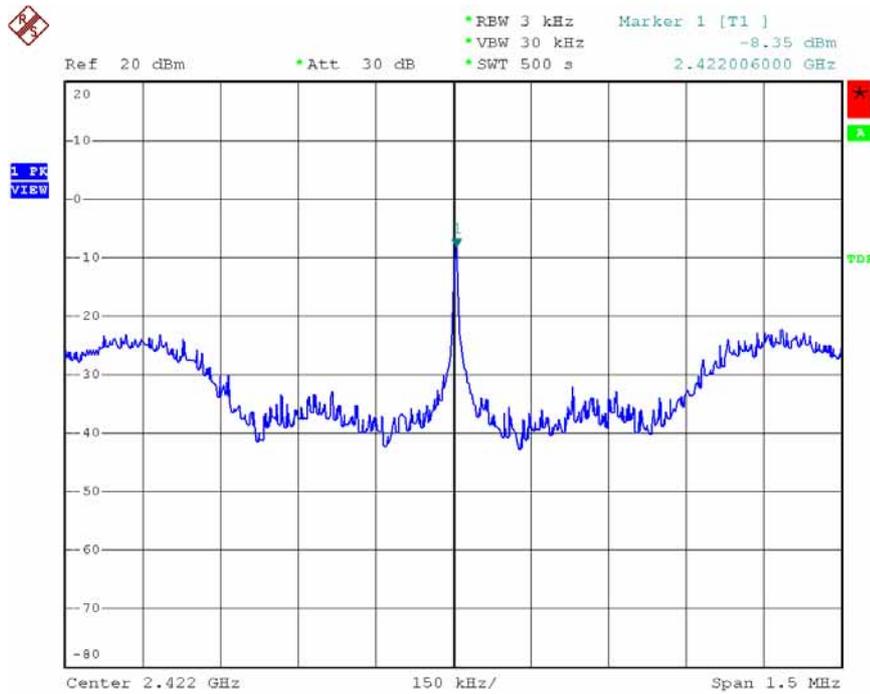
Date: 1.MAY.2008 18:09:37

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-M)
 Channel: 09



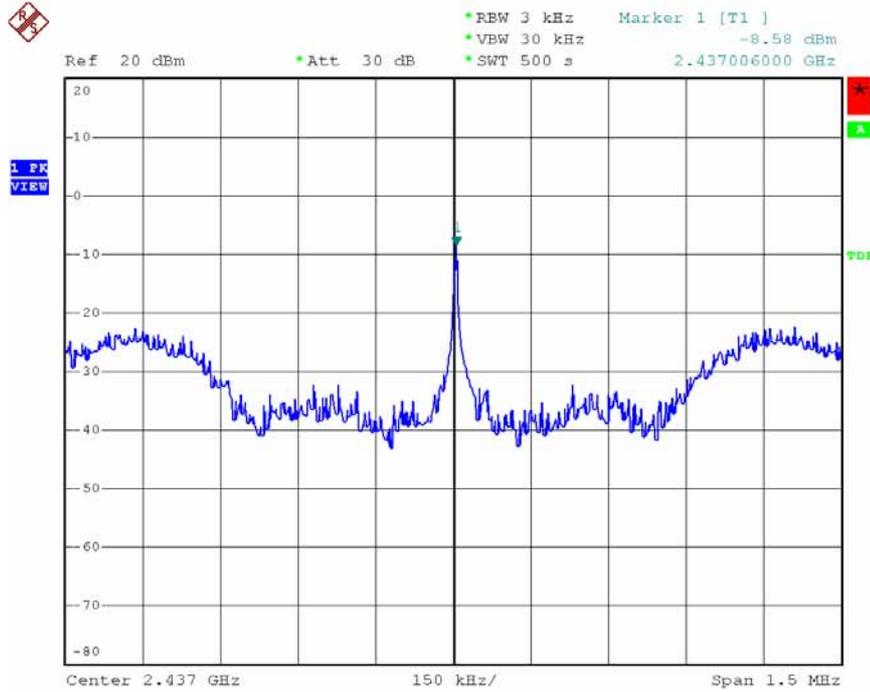
Date: 1.MAY.2008 18:09:06

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-R)
 Channel: 03



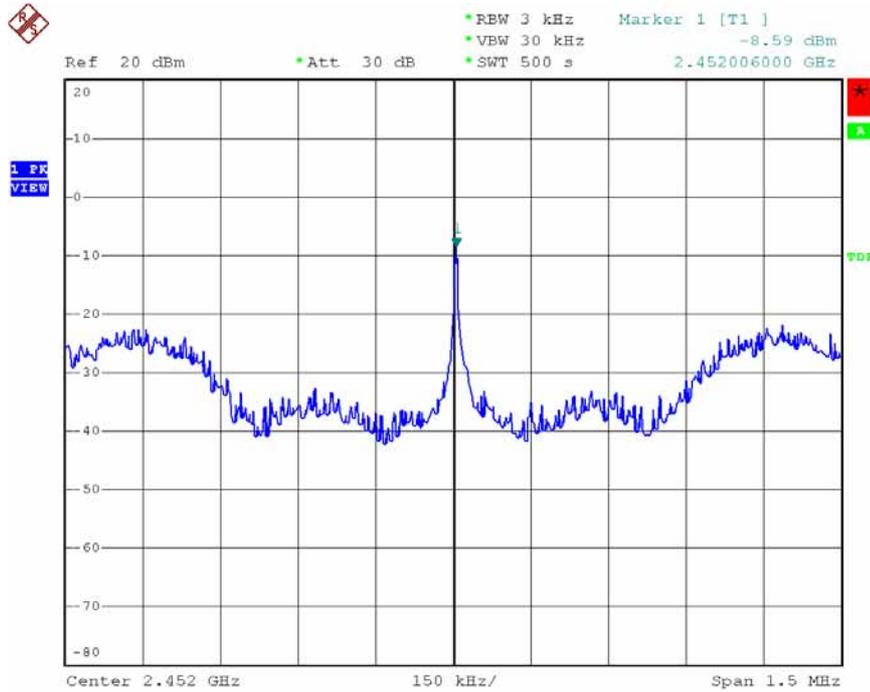
Date: 1.MAY.2008 18:06:18

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-R)
Channel: 06



Date: 1.MAY.2008 18:07:15

Modulation Standard: 802.11gn, HT40 (13.5Mbps), ANT-ALL (ANT-R)
Channel: 09



Date: 1.MAY.2008 18:07:53

10. Test of Conducted Emission (For 802.11a device)

10.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

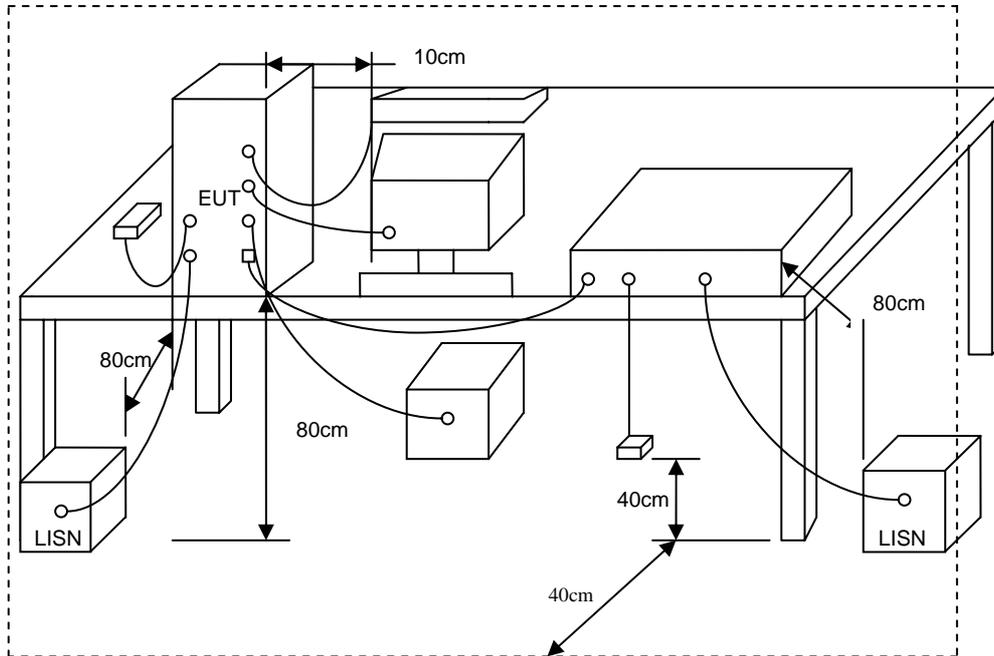
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

10.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

10.3 Typical Test Setup

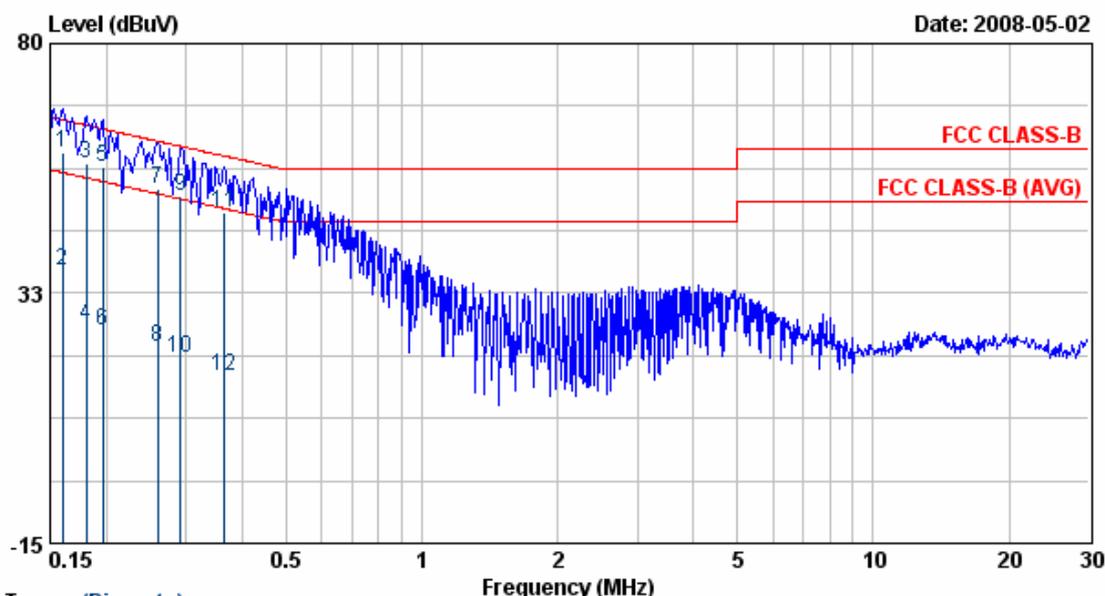


10.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Receiver	R&S	ESCI	100443	2007/09/27	2008/09/26
LISN	NNB-2/16Z	MESS TEC	02/10191	2008/05/14	2009/05/13
LISN	NNB-2/16Z	ROLF HEINE	03/10058	2008/04/19	2009/04/18

10.5 Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11a CH149	Temperature	: 24 °C
Memo	: DSA-20P-10 US 12018	Humidity	: 56 %

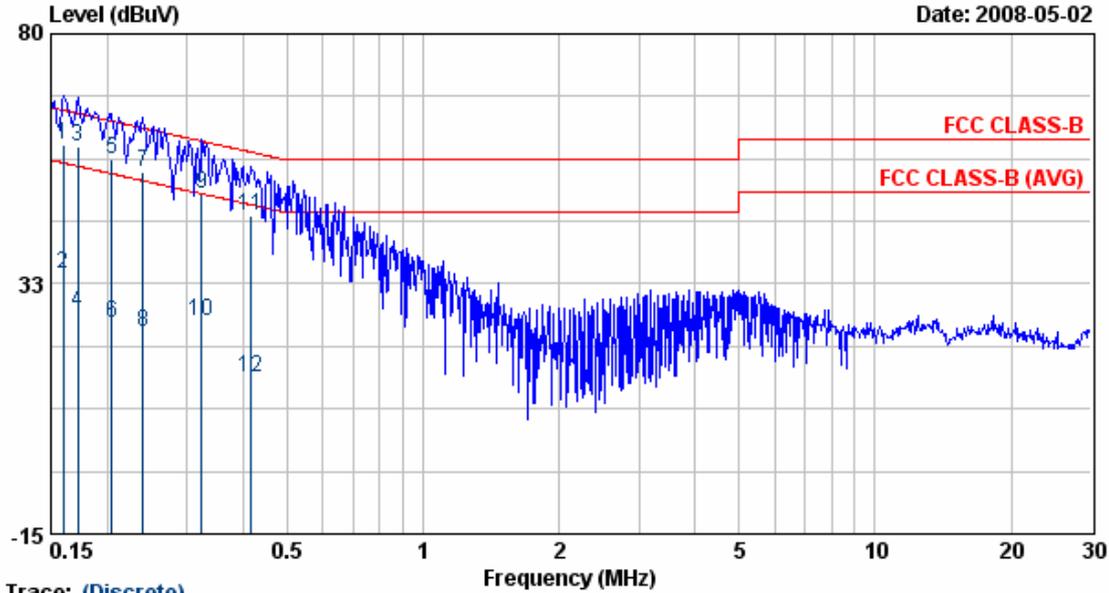


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	59.24	0.10	59.34	65.47	-6.13	QP
2	0.16	36.68	0.10	36.78	55.47	-18.69	AVERAGE
3	0.18	57.08	0.10	57.19	64.46	-7.27	QP
4	0.18	26.20	0.10	26.30	54.46	-28.16	AVERAGE
5	0.20	56.25	0.10	56.36	63.76	-7.40	QP
6	0.20	25.25	0.10	25.35	53.76	-28.41	AVERAGE
7	0.26	52.35	0.11	52.46	61.42	-8.97	QP
8	0.26	22.22	0.11	22.33	51.42	-29.09	AVERAGE
9	0.29	50.70	0.12	50.81	60.46	-9.64	QP
10	0.29	20.09	0.12	20.21	50.46	-30.25	AVERAGE
11	0.36	47.76	0.11	47.87	58.65	-10.78	QP
12	0.36	16.59	0.11	16.70	48.65	-31.95	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11a CH149	Temperature	: 24 °C
Memo	: DSA-20P-10 US 12018	Humidity	: 56 %

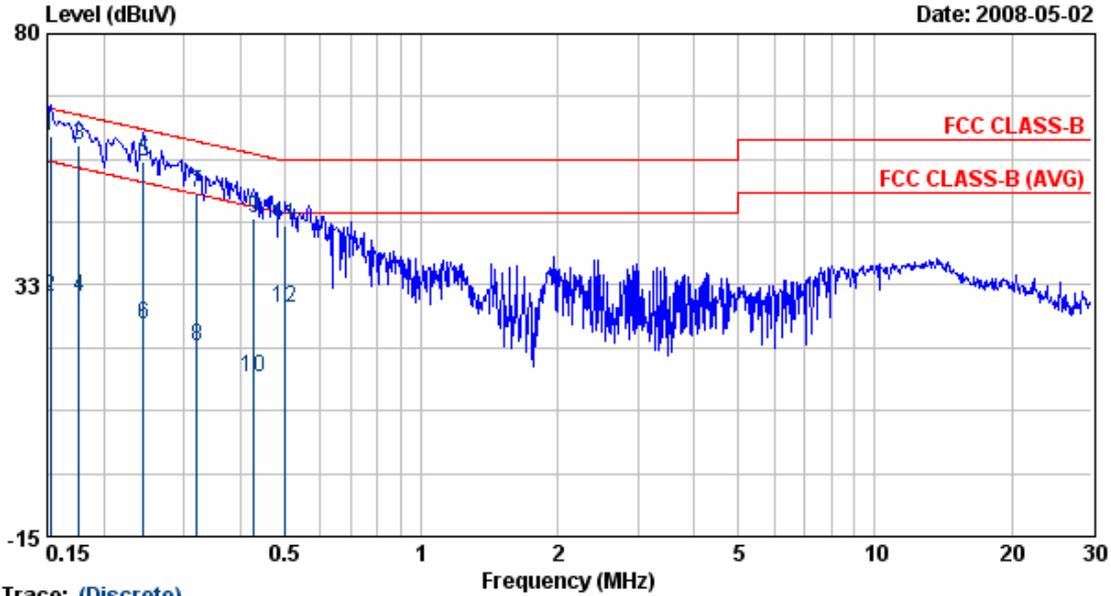


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	58.95	0.09	59.04	65.47	-6.43	QP
2	0.16	34.45	0.09	34.54	55.47	-20.93	AVERAGE
3	0.17	58.41	0.09	58.50	64.86	-6.36	QP
4	0.17	27.12	0.09	27.21	54.86	-27.64	AVERAGE
5	0.21	56.00	0.09	56.09	63.40	-7.31	QP
6	0.21	24.89	0.09	24.98	53.40	-28.43	AVERAGE
7	0.24	53.59	0.09	53.68	62.08	-8.40	QP
8	0.24	23.31	0.09	23.40	52.08	-28.68	AVERAGE
9	0.32	49.52	0.10	49.62	59.62	-10.00	QP
10	0.32	25.22	0.10	25.32	49.62	-24.30	AVERAGE
11	0.42	45.21	0.10	45.31	57.51	-12.20	QP
12	0.42	14.56	0.10	14.67	47.51	-32.84	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 2	: 802.11an, HT20 CH149	Temperature	: 24 °C
Memo	: DSA-20P-10 US 12018	Humidity	: 56 %

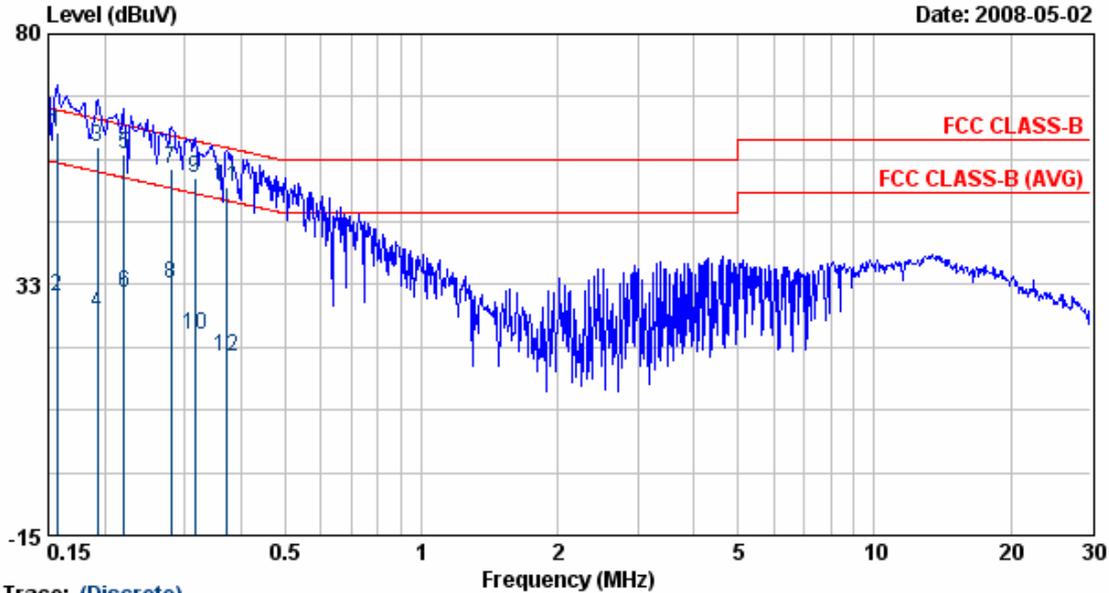


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	60.72	0.10	60.82	65.87	-5.05	QP
2	0.15	30.30	0.10	30.40	55.87	-25.47	AVERAGE
3	0.18	58.90	0.10	59.00	64.68	-5.68	QP
4	0.18	30.31	0.10	30.41	54.68	-24.27	AVERAGE
5	0.24	55.87	0.11	55.98	61.95	-5.97	QP
6	0.24	25.06	0.11	25.17	51.95	-26.79	AVERAGE
7	0.32	49.94	0.11	50.05	59.71	-9.65	QP
8	0.32	20.72	0.11	20.84	49.71	-28.87	AVERAGE
9	0.43	45.02	0.11	45.13	57.29	-12.15	QP
10	0.43	14.99	0.11	15.10	47.29	-32.19	AVERAGE
11	0.50	43.75	0.12	43.86	56.00	-12.14	QP
12	0.50	28.12	0.12	28.24	46.00	-17.76	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149, 157, 165 are almost the same below 1GHz, so that channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11an, HT20 CH149	Temperature	: 24 °C
Memo	: DSA-20P-10 US 12018	Humidity	: 56 %

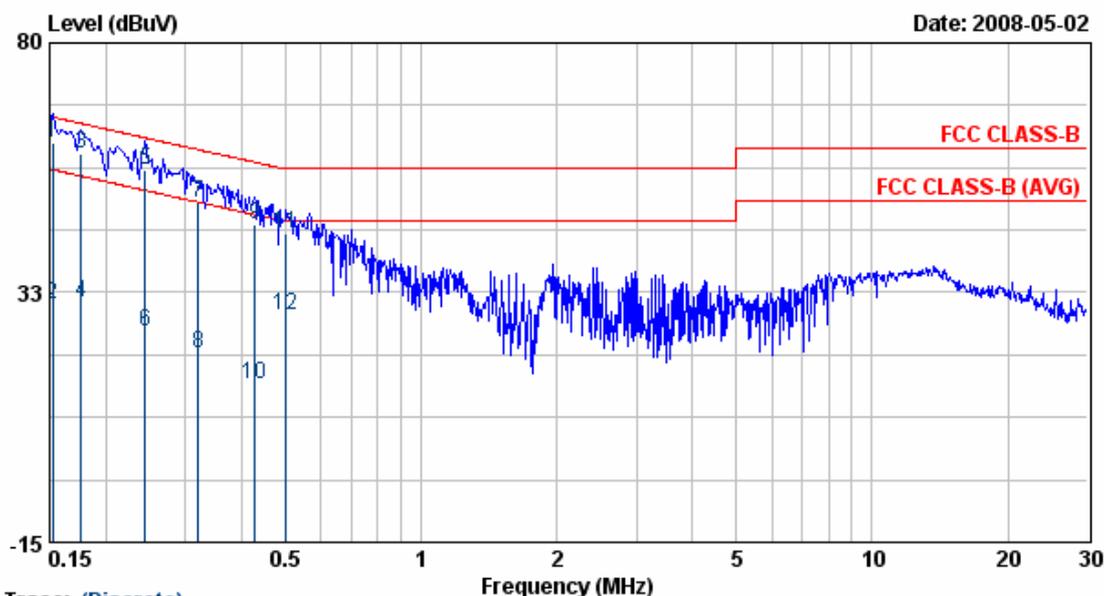


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	61.23	0.09	61.32	65.65	-4.33	QP
2	0.16	30.23	0.09	30.32	55.65	-25.33	AVERAGE
3	0.19	58.45	0.09	58.54	63.93	-5.39	QP
4	0.19	26.98	0.09	27.07	53.93	-26.86	AVERAGE
5	0.22	57.14	0.09	57.23	62.79	-5.55	QP
6	0.22	30.85	0.09	30.94	52.79	-21.84	AVERAGE
7	0.28	54.48	0.09	54.57	60.81	-6.23	QP
8	0.28	32.43	0.09	32.52	50.81	-18.29	AVERAGE
9	0.32	52.52	0.10	52.62	59.80	-7.18	QP
10	0.32	22.92	0.10	23.01	49.80	-26.78	AVERAGE
11	0.37	50.92	0.10	51.02	58.47	-7.45	QP
12	0.37	18.92	0.10	19.02	48.47	-29.45	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149, 157, 165 are almost the same below 1GHz, so that channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 3	: 802.11an, HT40 CH151	Temperature	: 24 °C
Memo	: DSA-20P-10 US 12018	Humidity	: 56 %

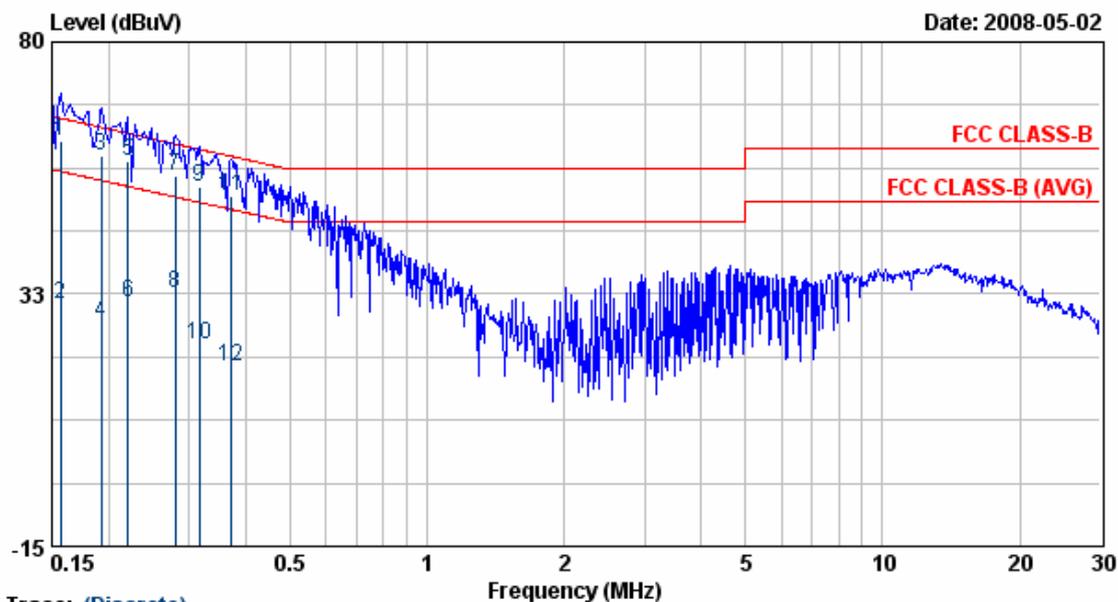


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	60.74	0.10	60.84	65.87	-5.03	QP
2	0.15	30.24	0.10	30.34	55.87	-25.53	AVERAGE
3	0.18	58.92	0.10	59.02	64.68	-5.66	QP
4	0.18	30.34	0.10	30.44	54.68	-24.24	AVERAGE
5	0.24	55.82	0.11	55.93	61.95	-6.02	QP
6	0.24	25.03	0.11	25.14	51.95	-26.82	AVERAGE
7	0.32	49.38	0.11	49.50	59.71	-10.21	QP
8	0.32	20.74	0.11	20.85	49.71	-28.85	AVERAGE
9	0.43	45.22	0.11	45.33	57.29	-11.95	QP
10	0.43	14.99	0.11	15.11	47.29	-32.18	AVERAGE
11	0.50	43.47	0.12	43.59	56.00	-12.41	QP
12	0.50	28.19	0.12	28.31	46.00	-17.69	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an mode at channel 151, 155, 159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 3	: 802.11an, HT40 CH151	Temperature	: 24 °C
Memo	: DSA-20P-10 US 12018	Humidity	: 56 %

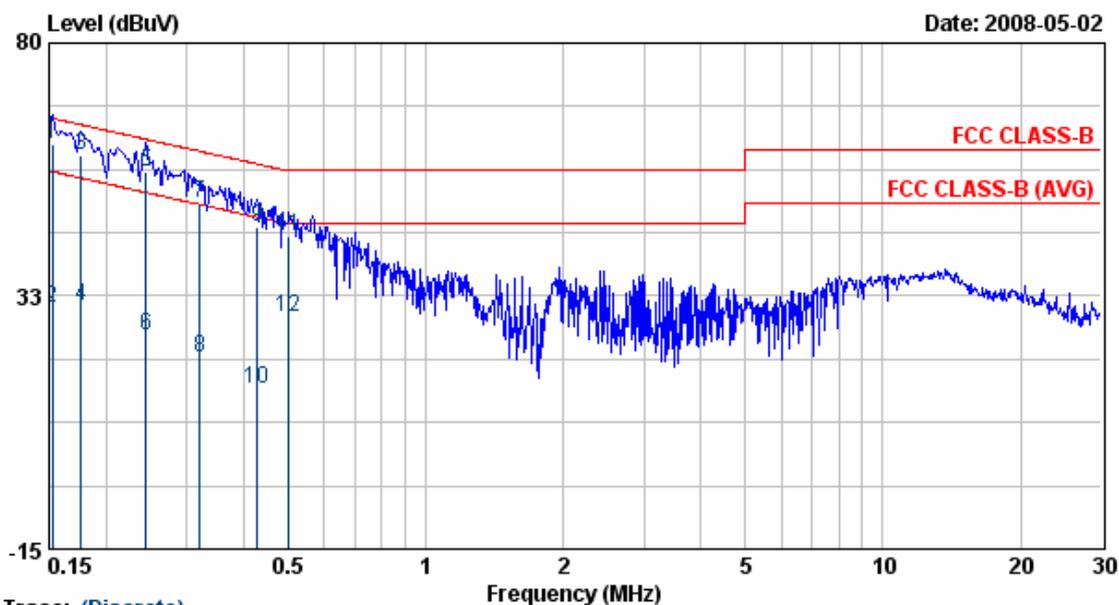


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	61.21	0.09	61.30	65.65	-4.34	QP
2	0.16	30.53	0.09	30.62	55.65	-25.03	AVERAGE
3	0.19	58.49	0.09	58.58	63.93	-5.35	QP
4	0.19	26.92	0.09	27.01	53.93	-26.92	AVERAGE
5	0.22	57.42	0.09	57.51	62.79	-5.28	QP
6	0.22	30.82	0.09	30.91	52.79	-21.87	AVERAGE
7	0.28	54.78	0.09	54.87	60.81	-5.93	QP
8	0.28	32.45	0.09	32.55	50.81	-18.26	AVERAGE
9	0.32	52.53	0.10	52.63	59.80	-7.17	QP
10	0.32	22.97	0.10	23.07	49.80	-26.73	AVERAGE
11	0.37	50.93	0.10	51.03	58.47	-7.44	QP
12	0.37	18.92	0.10	19.02	48.47	-29.45	AVERAGE

- Remarks:
- Level = Read Level + Factor
 - Factor = LISN(ISN) Factor + Cable Loss
 - According to technical experiences, all spurious emission of 802.11an mode at channel 151, 155, 159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
 - The data is worse case.

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 4	: 802.11an, HT20 CH149	Temperature	: 24 °C
Memo	: DSA-20P-10 US 12018	Humidity	: 56 %

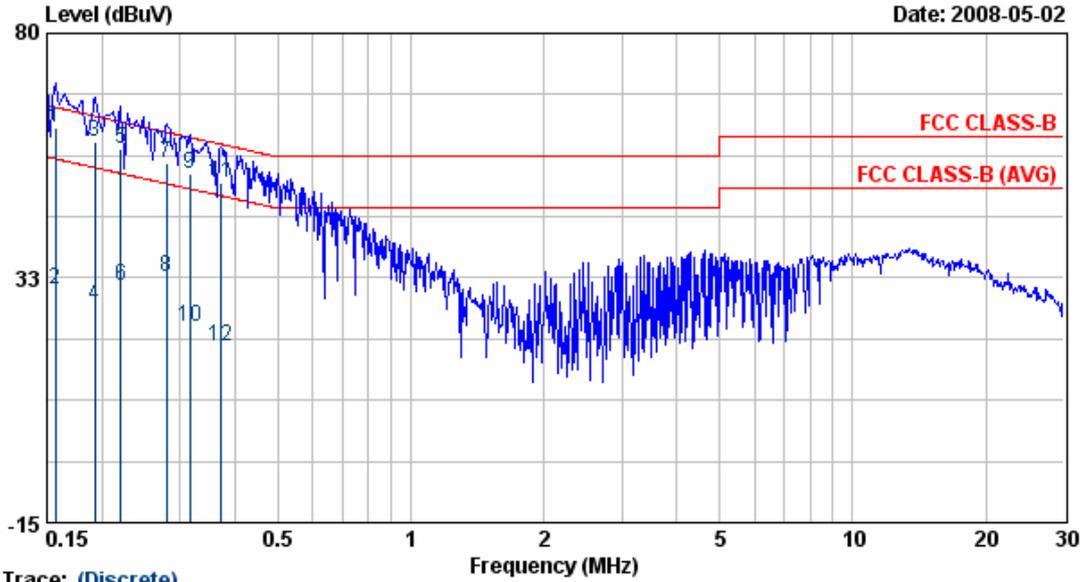


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	60.74	0.10	60.84	65.87	-5.03	QP
2	0.15	30.26	0.10	30.36	55.87	-25.51	AVERAGE
3	0.18	58.93	0.10	59.03	64.68	-5.65	QP
4	0.18	30.56	0.10	30.66	54.68	-24.02	AVERAGE
5	0.24	55.82	0.11	55.93	61.95	-6.02	QP
6	0.24	25.06	0.11	25.17	51.95	-26.78	AVERAGE
7	0.32	49.93	0.11	50.04	59.71	-9.66	QP
8	0.32	20.65	0.11	20.77	49.71	-28.94	AVERAGE
9	0.43	45.22	0.11	45.33	57.29	-11.95	QP
10	0.43	14.99	0.11	15.11	47.29	-32.18	AVERAGE
11	0.50	43.47	0.12	43.59	56.00	-12.41	QP
12	0.50	28.39	0.12	28.51	46.00	-17.49	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 4	: 802.11an, HT20 CH149	Temperature	: 24 °C
Memo	: DSA-20P-10 US 12018	Humidity	: 56 %

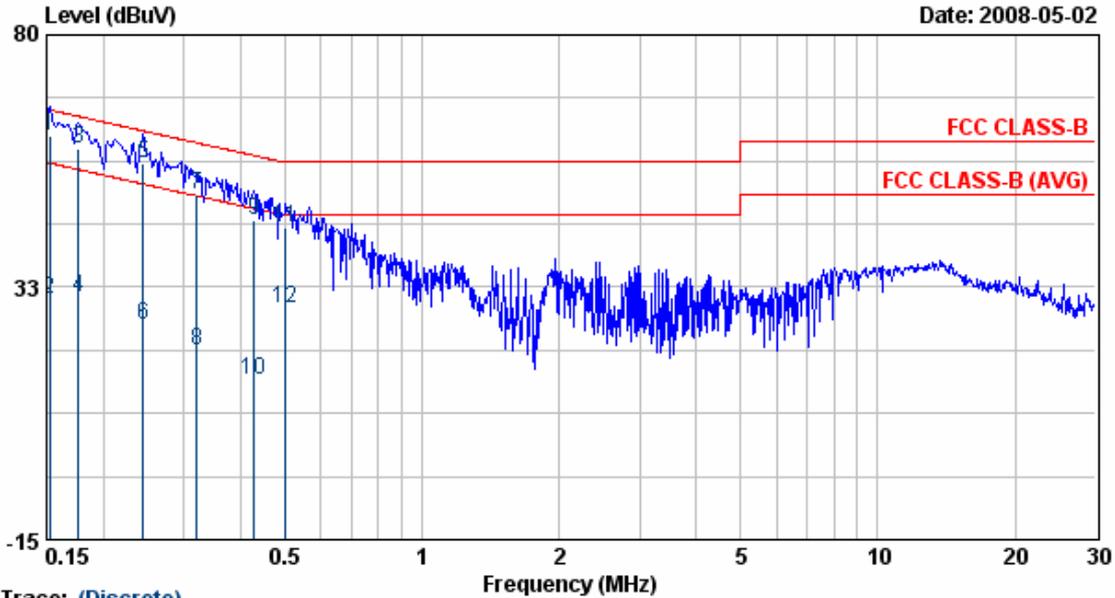


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	61.55	0.09	61.64	65.65	-4.01	QP
2	0.16	30.32	0.09	30.41	55.65	-25.24	AVERAGE
3	0.19	58.69	0.09	58.78	63.93	-5.15	QP
4	0.19	26.92	0.09	27.01	53.93	-26.92	AVERAGE
5	0.22	57.42	0.09	57.51	62.79	-5.28	QP
6	0.22	30.82	0.09	30.91	52.79	-21.87	AVERAGE
7	0.28	54.78	0.09	54.87	60.81	-5.93	QP
8	0.28	32.45	0.09	32.55	50.81	-18.26	AVERAGE
9	0.32	52.53	0.10	52.63	59.80	-7.17	QP
10	0.32	22.97	0.10	23.07	49.80	-26.73	AVERAGE
11	0.37	50.93	0.10	51.03	58.47	-7.44	QP
12	0.37	18.93	0.10	19.03	48.47	-29.44	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 5	: 802.11an, HT40 CH151	Temperature	: 24 °C
Memo	: DSA-20P-10 US 12018	Humidity	: 56 %

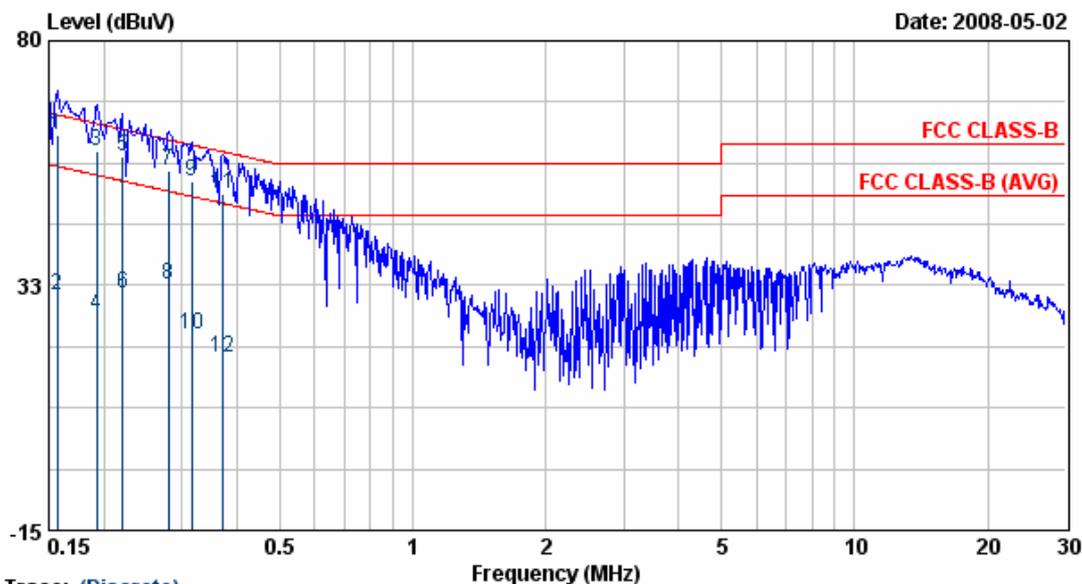


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	60.79	0.10	60.89	65.87	-4.98	QP
2	0.15	30.27	0.10	30.37	55.87	-25.50	AVERAGE
3	0.18	58.53	0.10	58.63	64.68	-6.05	QP
4	0.18	30.36	0.10	30.46	54.68	-24.22	AVERAGE
5	0.24	55.55	0.11	55.66	61.95	-6.29	QP
6	0.24	25.43	0.11	25.54	51.95	-26.42	AVERAGE
7	0.32	49.98	0.11	50.10	59.71	-9.61	QP
8	0.32	20.54	0.11	20.65	49.71	-29.05	AVERAGE
9	0.43	45.02	0.11	45.13	57.29	-12.15	QP
10	0.43	14.93	0.11	15.04	47.29	-32.24	AVERAGE
11	0.50	43.57	0.12	43.69	56.00	-12.31	QP
12	0.50	28.37	0.12	28.49	46.00	-17.51	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an mode at channel 151, 155, 159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 5	: 802.11an, HT40 CH151	Temperature	: 24 °C
Memo	: DSA-20P-10 US 12018	Humidity	: 56 %

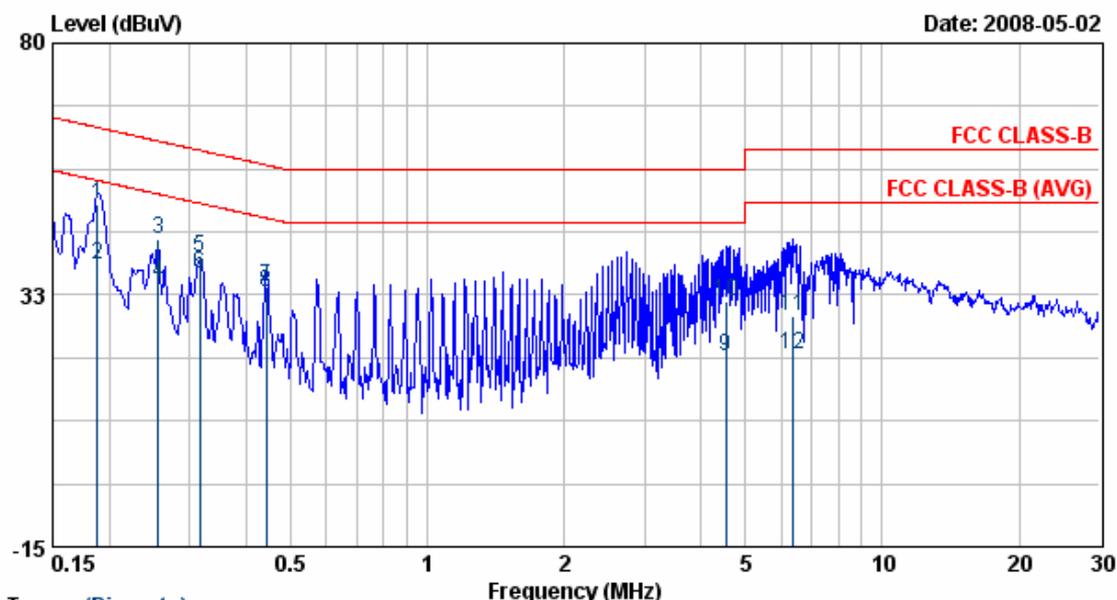


Trace: (Discrete)

Item	Freq MHz	Read Value dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dBuV	Remark
1	0.16	61.44	0.09	61.53	65.65	-4.12	QP
2	0.16	30.56	0.09	30.65	55.65	-25.00	AVERAGE
3	0.19	58.49	0.09	58.58	63.93	-5.35	QP
4	0.19	26.66	0.09	26.75	53.93	-27.18	AVERAGE
5	0.22	57.55	0.09	57.64	62.79	-5.15	QP
6	0.22	30.82	0.09	30.91	52.79	-21.87	AVERAGE
7	0.28	54.78	0.09	54.87	60.81	-5.93	QP
8	0.28	32.56	0.09	32.65	50.81	-18.16	AVERAGE
9	0.32	52.54	0.10	52.64	59.80	-7.16	QP
10	0.32	22.88	0.10	22.97	49.80	-26.82	AVERAGE
11	0.37	50.32	0.10	50.42	58.47	-8.05	QP
12	0.37	18.42	0.10	18.52	48.47	-29.95	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an mode at channel 151, 155, 159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 6	: 802.11a CH149	Temperature	: 24 °C
Memo	: MU18-2120150-A1	Humidity	: 56 %

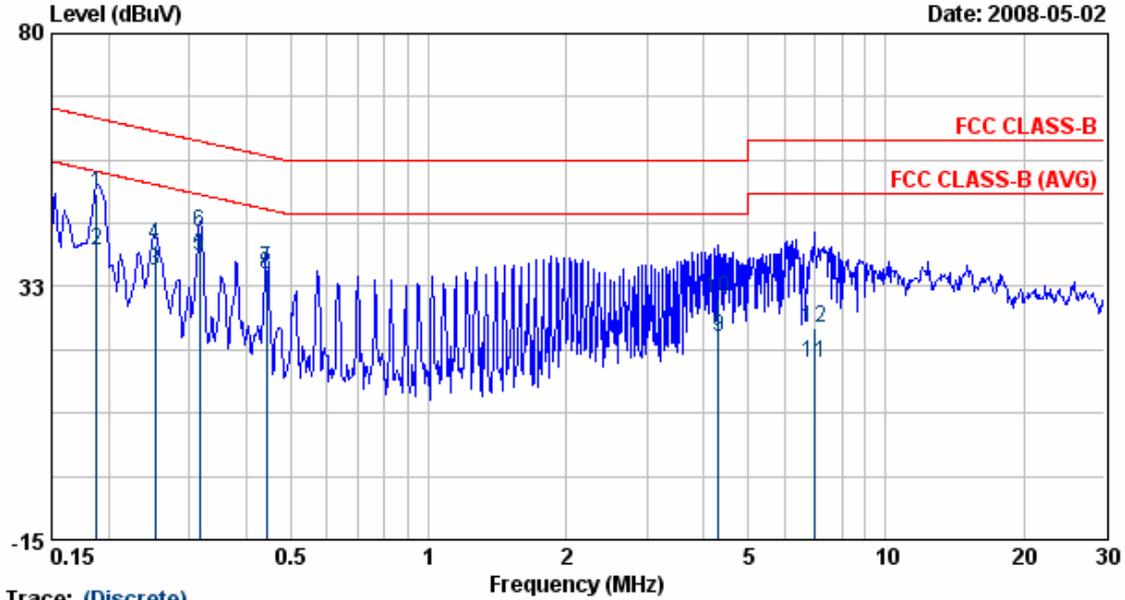


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.19	49.33	0.10	49.44	64.11	-14.67	QP
2	0.19	38.05	0.10	38.15	54.11	-15.96	AVERAGE
3	0.26	42.80	0.11	42.91	61.56	-18.64	QP
4	0.26	34.65	0.11	34.76	51.56	-16.79	AVERAGE
5	0.32	39.46	0.11	39.58	59.80	-20.22	QP
6	0.32	36.31	0.11	36.42	49.80	-13.37	AVERAGE
7	0.44	33.91	0.11	34.02	57.02	-23.00	QP
8	0.44	33.06	0.11	33.17	47.02	-13.85	AVERAGE
9	4.53	20.56	0.24	20.81	46.00	-25.19	AVERAGE
10	4.53	31.06	0.24	31.31	56.00	-24.69	QP
11	6.39	28.16	0.29	28.44	60.00	-31.56	QP
12	6.39	21.11	0.29	21.40	50.00	-28.60	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN (ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11a mode at channel 149, 157, 165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 6	: 802.11a CH149	Temperature	: 24 °C
Memo	: MU18-2120150-A1	Humidity	: 56 %

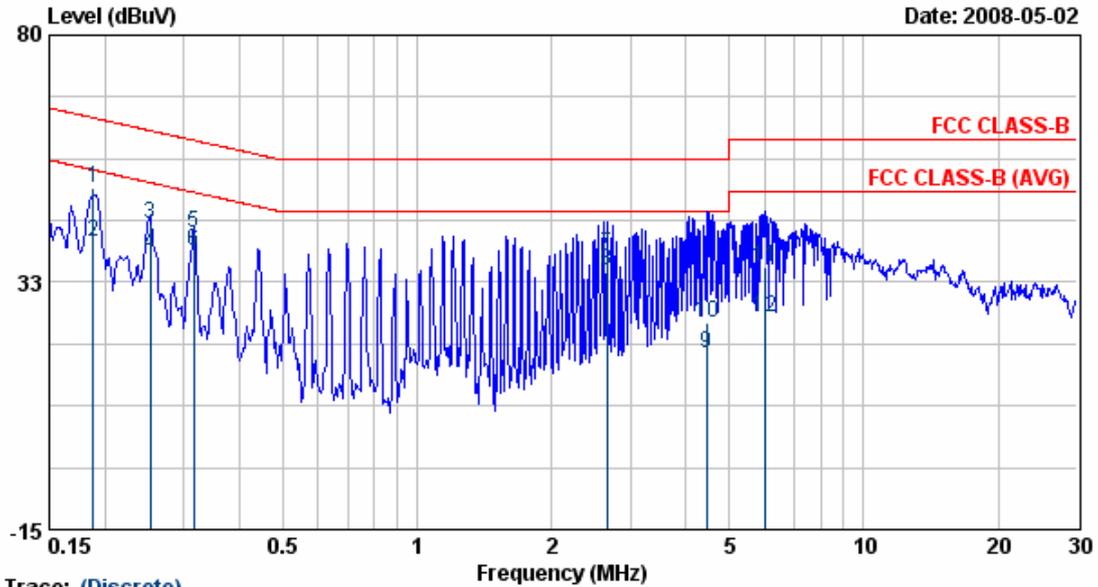


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.19	49.99	0.09	50.08	64.11	-14.03	QP
2	0.19	39.30	0.09	39.39	54.11	-14.71	AVERAGE
3	0.25	35.51	0.09	35.61	51.69	-16.08	AVERAGE
4	0.25	40.31	0.09	40.40	61.69	-21.28	QP
5	0.32	38.15	0.10	38.24	49.80	-11.55	AVERAGE
6	0.32	42.75	0.10	42.85	59.80	-16.95	QP
7	0.44	35.55	0.10	35.66	57.02	-21.37	QP
8	0.44	34.58	0.10	34.69	47.02	-12.34	AVERAGE
9	4.31	22.70	0.26	22.96	46.00	-23.04	AVERAGE
10	4.31	30.05	0.26	30.32	56.00	-25.68	QP
11	6.95	17.70	0.33	18.03	50.00	-31.97	AVERAGE
12	6.95	24.25	0.33	24.58	60.00	-35.42	QP

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 7	: 802.11an, HT20 CH149	Temperature	: 24 °C
Memo	: MU18-2120150-A1	Humidity	: 56 %

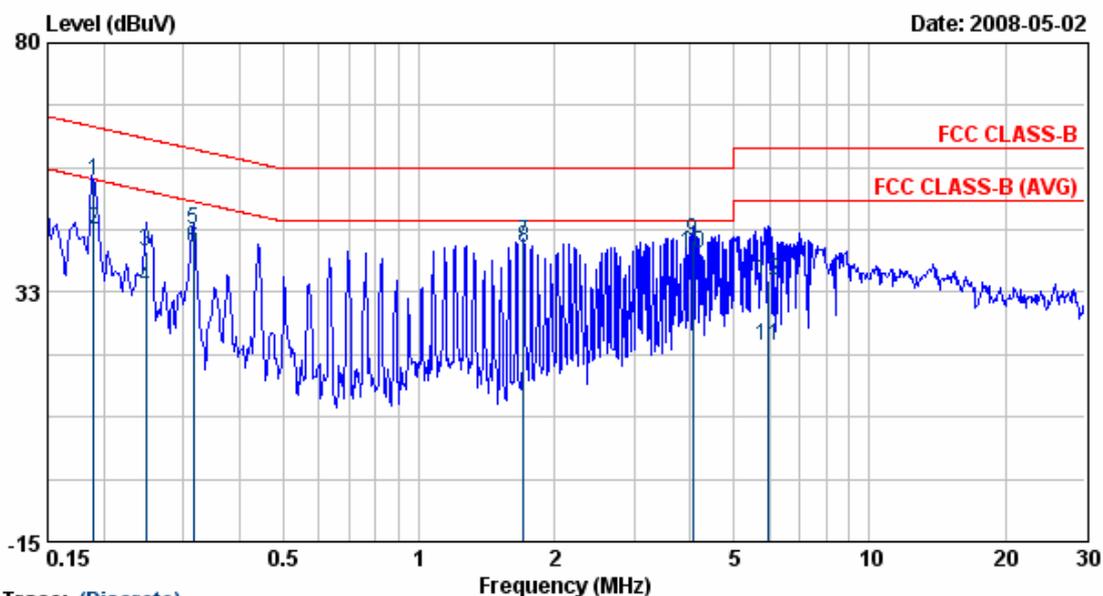


Trace: (Discrete)

Item	Freq MHz	Read Value dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dBuV	Remark
1	0.19	50.46	0.10	50.56	64.11	-13.55	QP
2	0.19	40.23	0.10	40.33	54.11	-13.78	AVERAGE
3	0.25	43.77	0.11	43.88	61.69	-17.81	QP
4	0.25	37.67	0.11	37.78	51.69	-13.90	AVERAGE
5	0.32	41.90	0.11	42.02	59.80	-17.78	QP
6	0.32	38.32	0.11	38.44	49.80	-11.36	AVERAGE
7	2.66	37.80	0.21	38.01	56.00	-17.99	QP
8	2.66	34.55	0.21	34.76	46.00	-11.24	AVERAGE
9	4.45	18.51	0.24	18.76	46.00	-27.24	AVERAGE
10	4.45	24.65	0.24	24.90	56.00	-31.10	QP
11	6.02	35.20	0.28	35.47	60.00	-24.53	QP
12	6.02	25.55	0.28	25.83	50.00	-24.17	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 7	: 802.11an, HT20 CH149	Temperature	: 24 °C
Memo	: MU18-2120150-A1	Humidity	: 56 %

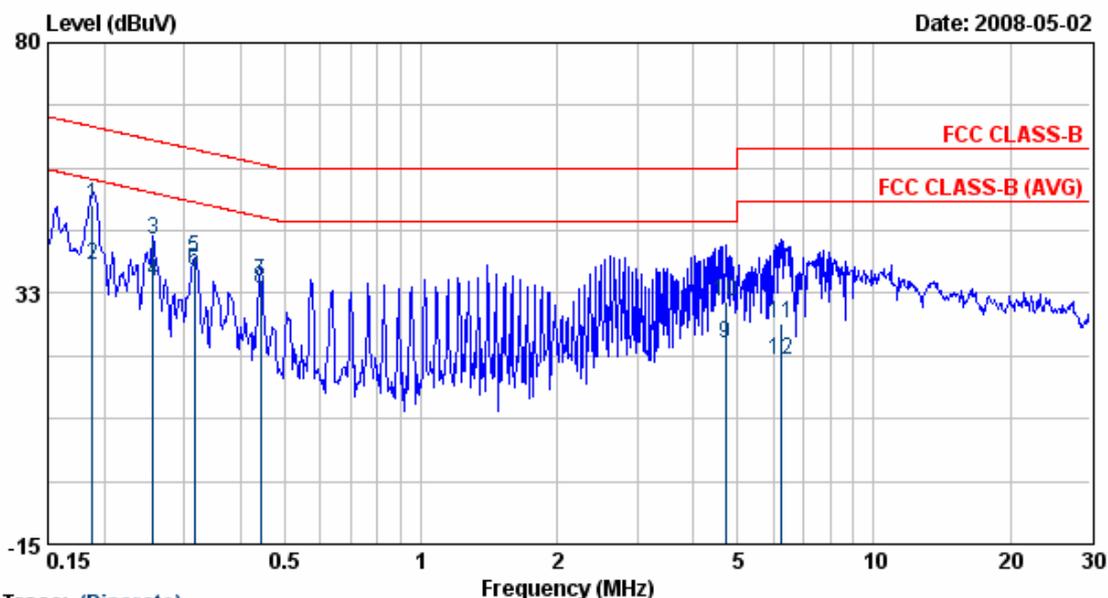


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.19	53.52	0.09	53.61	64.05	-10.45	QP
2	0.19	44.20	0.09	44.29	54.05	-9.77	AVERAGE
3	0.25	40.03	0.09	40.12	61.82	-21.70	QP
4	0.25	33.22	0.09	33.31	51.82	-18.51	AVERAGE
5	0.32	44.49	0.10	44.58	59.80	-15.21	QP
6	0.32	40.86	0.10	40.96	49.80	-8.83	AVERAGE
7	1.71	41.67	0.18	41.85	56.00	-14.15	QP
8	1.71	40.74	0.18	40.92	46.00	-5.08	AVERAGE
9	4.05	42.00	0.25	42.25	56.00	-13.75	QP
10	4.05	39.60	0.25	39.85	46.00	-6.15	AVERAGE
11	5.96	21.97	0.31	22.28	50.00	-27.72	AVERAGE
12	5.96	34.34	0.31	34.65	60.00	-25.35	QP

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 8	: 802.11an, HT40 CH151	Temperature	: 24 °C
Memo	: MU18-2120150-A1	Humidity	: 56 %

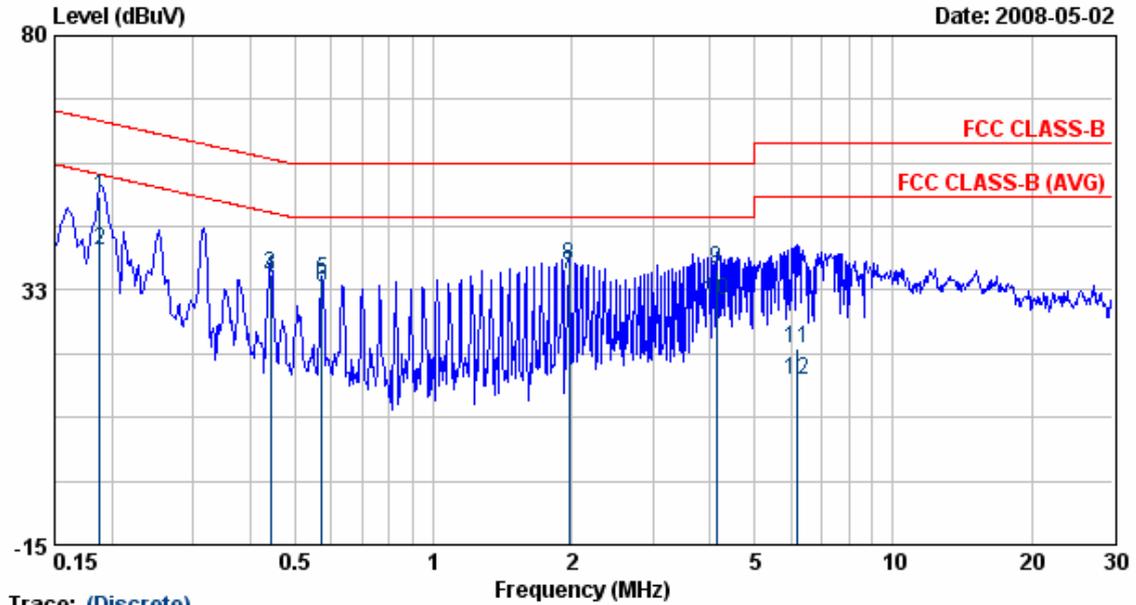


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.19	49.16	0.10	49.27	64.11	-14.84	QP
2	0.19	37.82	0.10	37.93	54.11	-16.18	AVERAGE
3	0.26	42.68	0.11	42.80	61.56	-18.76	QP
4	0.26	34.58	0.11	34.69	51.56	-16.86	AVERAGE
5	0.32	39.26	0.11	39.38	59.80	-20.42	QP
6	0.32	36.54	0.11	36.65	49.80	-13.15	AVERAGE
7	0.44	34.69	0.11	34.81	57.02	-22.22	QP
8	0.44	33.10	0.11	33.22	47.02	-13.81	AVERAGE
9	4.70	22.68	0.25	22.93	46.00	-23.07	AVERAGE
10	4.70	30.65	0.25	30.90	56.00	-25.10	QP
11	6.25	26.60	0.28	26.88	60.00	-33.12	QP
12	6.25	19.62	0.28	19.90	50.00	-30.10	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 8	: 802.11an, HT40 CH151	Temperature	: 24 °C
Memo	: MU18-2120150-A1	Humidity	: 56 %

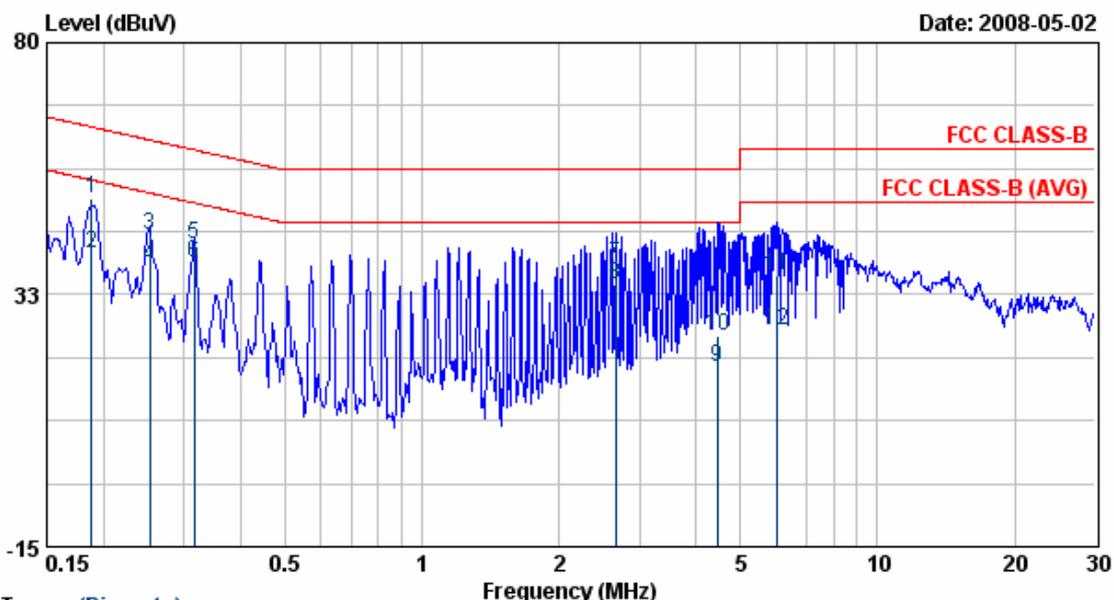


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.19	49.92	0.09	50.01	64.11	-14.10	QP
2	0.19	39.82	0.09	39.91	54.11	-14.20	AVERAGE
3	0.44	35.34	0.10	35.44	57.02	-21.58	QP
4	0.44	34.65	0.10	34.75	47.02	-12.27	AVERAGE
5	0.57	34.27	0.12	34.38	56.00	-21.62	QP
6	0.57	32.82	0.12	32.94	46.00	-13.06	AVERAGE
7	1.97	35.18	0.19	35.37	46.00	-10.63	AVERAGE
8	1.97	36.83	0.19	37.02	56.00	-18.98	QP
9	4.14	36.09	0.25	36.35	56.00	-19.65	QP
10	4.14	30.20	0.25	30.46	46.00	-15.54	AVERAGE
11	6.19	21.27	0.31	21.59	60.00	-38.41	QP
12	6.19	15.55	0.31	15.87	50.00	-34.13	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 9	: 802.11an, HT20 CH149	Temperature	: 24 °C
Memo	: MU18-2120150-A1	Humidity	: 56 %

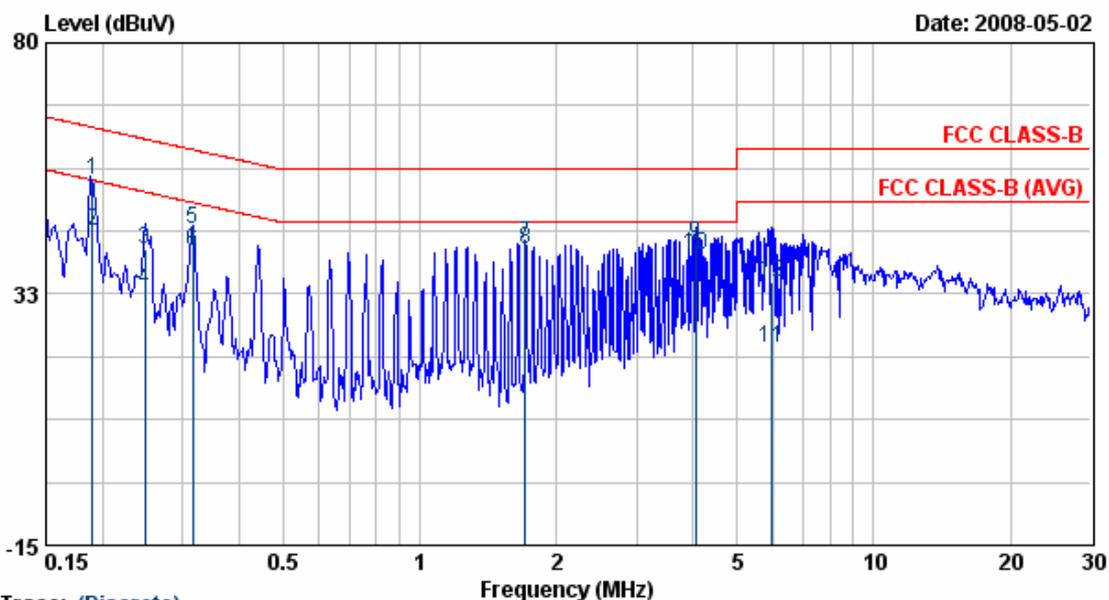


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.19	50.48	0.10	50.58	64.11	-13.53	QP
2	0.19	40.23	0.10	40.33	54.11	-13.78	AVERAGE
3	0.25	43.70	0.11	43.81	61.69	-17.87	QP
4	0.25	37.67	0.11	37.78	51.69	-13.90	AVERAGE
5	0.32	41.90	0.11	42.02	59.80	-17.78	QP
6	0.32	38.32	0.11	38.44	49.80	-11.36	AVERAGE
7	2.66	37.88	0.21	38.09	56.00	-17.91	QP
8	2.66	34.25	0.21	34.46	46.00	-11.54	AVERAGE
9	4.45	18.58	0.24	18.83	46.00	-27.17	AVERAGE
10	4.45	24.64	0.24	24.88	56.00	-31.12	QP
11	6.02	35.72	0.28	35.99	60.00	-24.01	QP
12	6.02	25.51	0.28	25.79	50.00	-24.21	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149, 157, 165 are almost the same below 1GHz, so that channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 9	: 802.11an, HT20 CH149	Temperature	: 24 °C
Memo	: MU18-2120150-A1	Humidity	: 56 %

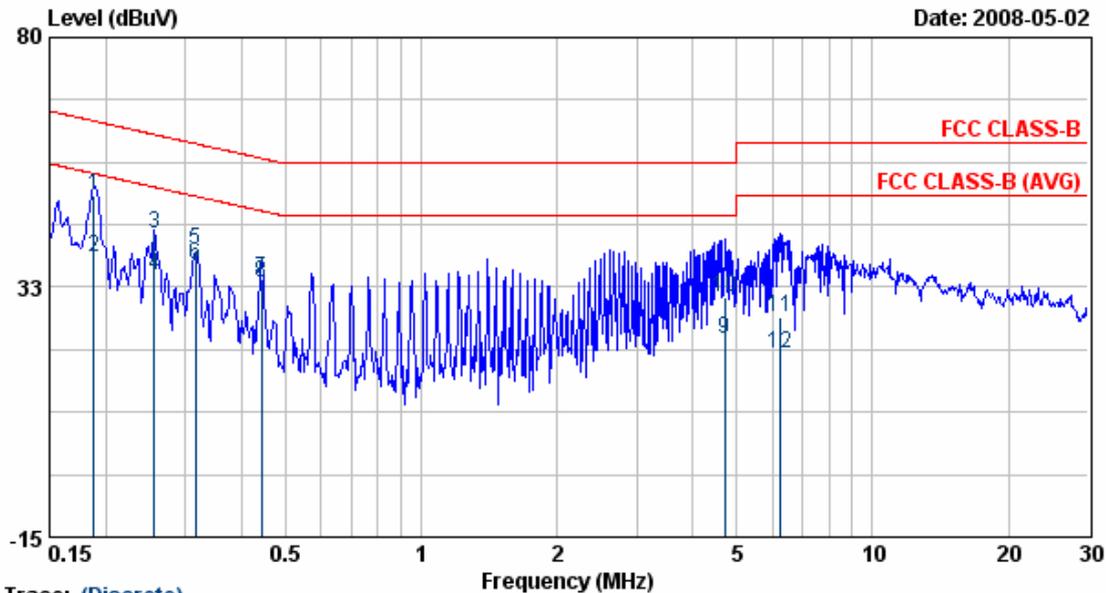


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.19	53.97	0.09	54.06	64.05	-9.99	QP
2	0.19	44.30	0.09	44.39	54.05	-9.67	AVERAGE
3	0.25	40.79	0.09	40.88	61.82	-20.94	QP
4	0.25	33.32	0.09	33.41	51.82	-18.41	AVERAGE
5	0.32	44.50	0.10	44.59	59.80	-15.20	QP
6	0.32	40.55	0.10	40.65	49.80	-9.15	AVERAGE
7	1.71	41.91	0.18	42.09	56.00	-13.91	QP
8	1.71	40.94	0.18	41.12	46.00	-4.88	AVERAGE
9	4.05	41.59	0.25	41.84	56.00	-14.16	QP
10	4.05	39.70	0.25	39.95	46.00	-6.05	AVERAGE
11	5.96	21.92	0.31	22.23	50.00	-27.77	AVERAGE
12	5.96	34.34	0.31	34.65	60.00	-25.35	QP

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz, so that channel 149 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 10	: 802.11an, HT40 CH151	Temperature	: 24 °C
Memo	: MU18-2120150-A1	Humidity	: 56 %

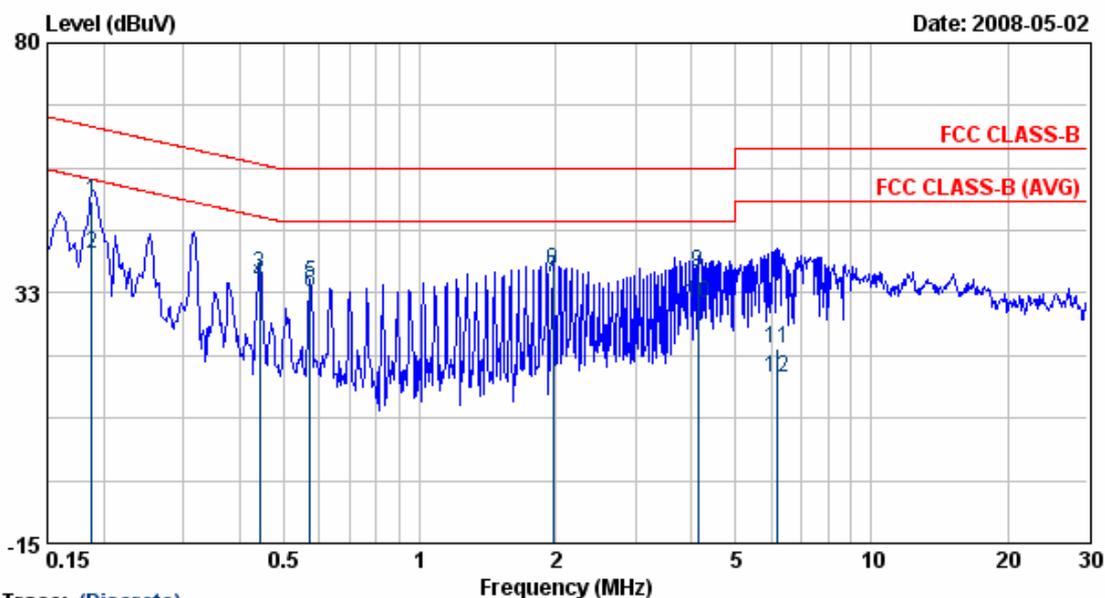


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.19	49.68	0.10	49.78	64.11	-14.33	QP
2	0.19	37.93	0.10	38.04	54.11	-16.07	AVERAGE
3	0.26	42.63	0.11	42.75	61.56	-18.81	QP
4	0.26	34.58	0.11	34.69	51.56	-16.86	AVERAGE
5	0.32	39.52	0.11	39.64	59.80	-20.16	QP
6	0.32	36.53	0.11	36.65	49.80	-13.15	AVERAGE
7	0.44	34.05	0.11	34.16	57.02	-22.86	QP
8	0.44	33.13	0.11	33.24	47.02	-13.78	AVERAGE
9	4.70	22.44	0.25	22.69	46.00	-23.31	AVERAGE
10	4.70	30.25	0.25	30.50	56.00	-25.50	QP
11	6.25	26.66	0.28	26.94	60.00	-33.06	QP
12	6.25	19.63	0.28	19.92	50.00	-30.08	AVERAGE

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
 4. The data is worse case.

Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 10	: 802.11an, HT40 CH151	Temperature	: 24 °C
Memo	: MU18-2120150-A1	Humidity	: 56 %



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.19	49.99	0.09	50.08	64.11	-14.03	QP
2	0.19	39.82	0.09	39.91	54.11	-14.20	AVERAGE
3	0.44	35.97	0.10	36.08	57.02	-20.94	QP
4	0.44	34.33	0.10	34.44	47.02	-12.58	AVERAGE
5	0.57	34.25	0.12	34.37	56.00	-21.63	QP
6	0.57	32.44	0.12	32.56	46.00	-13.44	AVERAGE
7	1.97	35.14	0.19	35.33	46.00	-10.67	AVERAGE
8	1.97	36.53	0.19	36.72	56.00	-19.28	QP
9	4.14	36.05	0.25	36.30	56.00	-19.70	QP
10	4.14	30.50	0.25	30.76	46.00	-15.24	AVERAGE
11	6.19	21.52	0.31	21.84	60.00	-38.16	QP
12	6.19	16.00	0.31	16.31	50.00	-33.69	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
 4. The data is worse case.

11. Test of Radiated Emission (For 802.11a device)

11.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated (μ V / M)	Radiated (dB μ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

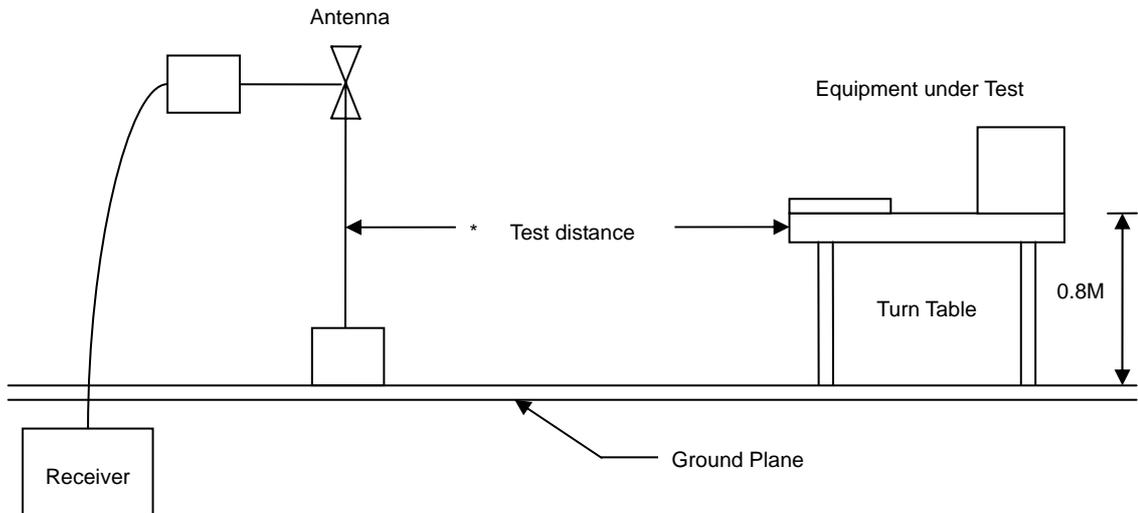
For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

Frequency (MHz)	Distance Meters	Radiated (dB μ V/ M)
30-230	10	30
230-1000	10	37

11.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

11.3 Typical Test Setup



11.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	85460A	HP	3807A00454	2007/06/05	2008/06/04
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21
Horn Antenna	3115	EMCO	31589	2008/03/28	2009/03/27
Horn Antenna	3116	EMCO	31970	2008/04/08	2009/04/07
Bilog Antenna	CBL6112B	Schaffner	2840	2008/04/26	2009/04/25
Amplifier	8449B	Agilent	3008A01954	2008/01/24	2009/01/23
Amplifier	8447D	Agilent	2944A10531	2007/09/26	2008/09/25
Amplifier	PA-840	Com-Power	711885	2007/08/28	2008/08/27