APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.247

Intel Corporation — Date: 07/23/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X

Model: WM3B2915ABG — Tested By: Ben Chavez

Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 1 - 802.11 b Mode **Transmit Mode**

Gain : 16.5 (99%) Pk. Pwr.: 19.37 dBm (100%) Pk. Pwr.: 19.64 dBm Avg. Power: 17.43 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	43.66	V	74	-30.34	Peak	1.5	135	
4824	35.99	V	54	-18.01	Avg	1.5	135	
7236	42.98	V	74	-31.02	Peak	2	90	
7236	29.75	V	54	-24.25	Avg	2	90	
9648	43.46	V	--	--	Peak	1.75	0	Not in Restricted Band
9648	32.62	V	--	--	Avg	1.75	0	Not in Restricted Band
12060	44.87	V	74	-29.13	Peak	2.25	180	
12060	31.4	V	54	-22.6	Avg	2.25	180	
14472	47.3	V	74	-26.7	Peak	2	225	
14472	33.51	V	54	-20.49	Avg	2	225	
16884	47.54	V	--	--	Peak	1.75	180	
16884	33.61	V	--	--	Avg	1.75	180	
19296	52.4	V	74	-21.6	Peak	2	180	
19296	38.74	V	54	-15.26	Avg	2	180	
21708		V	--	--	Peak			No Emissions
21708		V	--	--	Avg			Detected
24120		V	--	--	Peak			No Emissions
24120		V	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X

Model: WM3B2915ABG — Tested By: Ben Chavez

Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 1 - 802.11 b Mode **Transmit Mode**

Gain : 16.5 (99%) Pk. Pwr.: 19.37 dBm (100%) Pk. Pwr.: 19.64 dBm Avg. Power: 17.43 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	42.69	H	74	-31.31	Peak	2	225	
4824	33.3	H	54	-20.7	Avg	2	225	
7236	43.42	H	74	-30.58	Peak	2.25	270	
7236	29.74	H	54	-24.26	Avg	2.25	270	
9648	42.06	H	--	--	Peak	1.75	315	Not in Restricted Band
9648	29.35	H	--	--	Avg	1.75	315	Not in Restricted Band
12060	45.21	H	74	-28.79	Peak	2.5	225	
12060	31.35	H	54	-22.65	Avg	2.5	225	
14472	47.32	H	74	-26.68	Peak	1.75	225	
14472	33.39	H	54	-20.61	Avg	1.75	225	
16884	47.04	H	--	--	Peak	2	180	
16884	33.59	H	--	--	Avg	2	180	
19296	53.18	H	74	-20.82	Peak	2	225	
19296	38.73	H	54	-15.27	Avg	2	225	
21708		H	--	--	Peak			No Emissions
21708		H	--	--	Avg			Detected
24120		H	--	--	Peak			No Emissions
24120		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 6 - 802.11 b Mode **Transmit Mode**

Gain : 16.0 (99%) Pk. Pwr.: 19.33 dBm (100%) Pk. Pwr.: 19.73 dBm Avg. Power: 17.47 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	41.31	V	74	-32.69	Peak	2	135	
4874	31.48	V	54	-22.52	Avg	2	135	
7311	46.23	V	74	-27.77	Peak	1.25	180	
7311	36.65	V	54	-17.35	Avg	1.25	180	
9748	41.13	V	--	--	Peak	2.25	270	Not in Restricted Band
9748	26.74	V	--	--	Avg	2.25	270	Not in Restricted Band
12185	44.93	V	74	-29.07	Peak	2	180	
12185	31.32	V	54	-22.68	Avg	2	180	
14622	47.88	V	--	--	Peak	2	225	Not in Restricted Band
14622	34.51	V	--	--	Avg	2	225	Not in Restricted Band
17059	48.25	V	--	--	Peak	2	180	Not in Restricted Band
17059	34.87	V	--	--	Avg	2	180	Not in Restricted Band
19496	51.89	V	74	-22.11	Peak	2.25	180	
19496	38.45	V	54	-15.55	Avg	2.25	180	
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247
Intel Corporation Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: X
Model: WM3B2915ABG Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 6 - 802.11 b Mode Transmit Mode
Gain : 16.0 (99%) Pk. Pwr.: 19.33 dBm (100%) Pk. Pwr.: 19.73 dBm Avg. Power: 17.47 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	40.84	H	74	-33.16	Peak	2	225	
4874	30.69	H	54	-23.31	Avg	2	225	
7311	44.33	H	74	-29.67	Peak	1.5	135	
7311	31.33	H	54	-22.67	Avg	1.5	135	
9748	40.3	H	--	--	Peak	1.25	180	Not in Restricted Band
9748	26.92	H	--	--	Avg	1.25	180	Not in Restricted Band
12185	46.43	H	74	-27.57	Peak	1.5	135	
12185	31.52	H	54	-22.48	Avg	1.5	135	
14622	49.28	H	--	--	Peak	2	225	Not in Restricted Band
14622	35.18	H	--	--	Avg	2	225	Not in Restricted Band
17059	48.21	H	--	--	Peak	2	180	
17059	34.69	H	--	--	Avg	2	180	
19496	52.41	H	74	-21.59	Peak	2	180	
19496	38.43	H	54	-15.57	Avg	2	180	
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X

Model: WM3B2915ABG — Tested By: Ben Chavez

Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 11 - 802.11 b Mode **Transmit Mode**

Gain : 16.0 (99%) Pk. Pwr.: 19.28 dBm (100%) Pk. Pwr.: 19.62 dBm Avg. Power: 17.37 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	41.21	V	74	-32.79	Peak	3	135	
4924	30.96	V	54	-23.04	Avg	3	135	
7386	45.24	V	74	-28.76	Peak	2	180	
7386	33.49	V	54	-20.51	Avg	2	180	
9848	40	V	--	--	Peak	2	135	Not in Restricted Band
9848	26.32	V	--	--	Avg	2	135	Not in Restricted Band
12310	44.2	V	74	-29.8	Peak	1.75	225	
12310	30.87	V	54	-23.13	Avg	1.75	225	
14772	49.5	V	--	--	Peak	1.5	180	Not in Restricted Band
14772	35.54	V	--	--	Avg	1.5	180	Not in Restricted Band
17234	51.79	V	--	--	Peak	2	225	Not in Restricted Band
17234	37.13	V	--	--	Avg	2	225	Not in Restricted Band
19696	53.01	V	74	-20.99	Peak	2.25	225	
19696	39.33	V	54	-14.67	Avg	2.25	225	
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 11 - 802.11 b Mode **Transmit Mode**

Gain : 16.0 (99%) Pk. Pwr.: 19.28 dBm (100%) Pk. Pwr.: 19.62 dBm Avg. Power: 17.37 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	40.98	H	74	-33.02	Peak	1.75	225	
4924	29.91	H	54	-24.09	Avg	1.75	225	
7386	42.64	H	74	-31.36	Peak	2	315	
7386	28.53	H	54	-25.47	Avg	2	315	
9848	41.13	H	--	--	Peak	2	45	Not in Restricted Band
9848	26.75	H	--	--	Avg	2	45	Not in Restricted Band
12310	44.81	H	74	-29.19	Peak	2.25	180	
12310	30.88	H	54	-23.12	Avg	2.25	180	
14772	48.55	H	--	--	Peak	2	225	Not in Restricted Band
14772	35.29	H	--	--	Avg	2	225	Not in Restricted Band
17234	50.62	H	--	--	Peak	2	180	
17234	37.15	H	--	--	Avg	2	180	
19696	53.51	H	74	-20.49	Peak	2.25	180	
19696	39.32	H	54	-14.68	Avg	2.25	180	
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 1 - 802.11 b Mode **Transmit Mode**
Gain : 16.5 (99%) Pk. Pwr.: 19.37 dBm (100%) Pk. Pwr.: 19.64 dBm Avg. Power: 17.43 dBm
Channel 6 - 802.11 b Mode **Transmit Mode**
Gain : 16.0 (99%) Pk. Pwr.: 19.33 dBm (100%) Pk. Pwr.: 19.73 dBm Avg. Power: 17.47 dBm
Channel 11 - 802.11 b Mode **Transmit Mode**
Gain : 16.0 (99%) Pk. Pwr.: 19.28 dBm (100%) Pk. Pwr.: 19.62 dBm Avg. Power: 17.37 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2312	50.92	V	74	-23.08	Peak	2.25	270	103 MHz Below the Fundamental
2312	47.02	V	54	-6.98	Avg	2.25	270	of Channel 1
2512	48.34	V	74	-25.66	Peak	2.25	225	103 MHz Above the Fundamental
2512	42.82	V	54	-11.18	Avg	2.25	225	of Channel 1
2312	52.22	H	74	-21.78	Peak	1	0	103 MHz Below the Fundamental
2312	48.91	H	54	-5.09	Avg	1	0	of Channel 1
2512	47.26	H	74	-26.74	Peak	1.25	225	103 MHz Above the Fundamental
2512	42.01	H	54	-11.99	Avg	1.25	225	of Channel 1
2336	52.7	V	74	-21.3	Peak	2	315	103 MHz Below the Fundamental
2336	47.55	V	54	-6.45	Avg	2	315	of Channel 6
2538.7	49.39	V	74	-24.61	Peak	2	315	103 MHz Above the Fundamental
2538.7	44.29	V	54	-9.71	Avg	2	315	of Channel 6
2336	47.95	H	74	-26.05	Peak	2	315	103 MHz Below the Fundamental
2336	41.62	H	54	-12.38	Avg	2	315	of Channel 6
2538.7	51.23	H	74	-22.77	Peak	1.25	0	103 MHz Above the Fundamental
2538.7	45.99	H	54	-8.01	Avg	1.25	0	of Channel 6
2360	50.76	V	74	-23.24	Peak	2	315	103 MHz Below the Fundamental
2360	46.55	V	54	-7.45	Avg	2	315	of Channel 11
2565	47.56	V	74	-26.44	Peak	2	315	103 MHz Above the Fundamental
2565	38.6	V	54	-15.4	Avg	2	315	of Channel 11
2360	53.07	H	74	-20.93	Peak	1.5	225	103 MHz Below the Fundamental
2360	48.76	H	54	-5.24	Avg	1.5	225	of Channel 11
2564	49.56	H	74	-24.44	Peak	2	225	103 MHz Above the Fundamental
2564	41.83	H	54	-12.17	Peak	2	225	of Channel 11

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 1 - 802.11 b Mode **Transmit Mode**

Gain : 16.5 (99%) Pk. Pwr.: 19.37 dBm (100%) Pk. Pwr.: 19.64 dBm Avg. Power: 17.43 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	40.15	V	74	-33.85	Peak	1.75	315	Fundamental of LO for
3216	32.65	V	54	-21.35	Avg	1.75	315	Channel 1
6432	45.7	V	--	--	Peak	2.5	90	2nd Harmonic of LO for
6432	36.23	V	--	--	Avg	2.5	90	Channel 1
9648	43.46	V	--	--	Peak	1.75	0	3rd Harmonic of LO for
9648	32.62	V	--	--	Avg	1.75	0	Channel 1
12864	43.83	V	--	--	Peak	2	225	4th Harmonic of LO for
12864	30.5	V	--	--	Avg	2	225	Channel 1
3216	38.63	H	74	-35.37	Peak	2.5	315	Fundamental of LO for
3216	28.16	H	54	-25.84	Avg	2.5	315	Channel 1
6432	45.94	H	--	--	Peak	1.75	225	2nd Harmonic of LO for
6432	36.22	H	--	--	Avg	1.75	225	Channel 1
9648	42.06	H	--	--	Peak	1.75	315	3rd Harmonic of LO for
9648	29.35	H	--	--	Avg	1.75	315	Channel 1
12864	43.73	H	--	--	Peak	2	270	4th Harmonic of LO for
12864	30.5	H	--	--	Avg	2	270	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 6 - 802.11 b Mode **Transmit Mode**

Gain : 16.0 (99%) Pk. Pwr.: 19.33 dBm (100%) Pk. Pwr.: 19.73 dBm Avg. Power: 17.47 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	39.72	V	74	-34.28	Peak	1.5	315	Fundamental of LO for
3249.33	32.8	V	54	-21.2	Avg	1.5	315	Channel 6
6498.67	47.45	V	--	--	Peak	2.5	315	2nd Harmonic of LO for
6498.67	38.99	V	--	--	Avg	2.5	315	Channel 6
9748	41.13	V	--	--	Peak	2.25	270	3rd Harmonic of LO for
9748	26.74	V	--	--	Avg	2.25	270	Channel 6
12997.3	42.47	V	--	--	Peak	2	180	4th Harmonic of LO for
12997.3	28.91	V	--	--	Avg	2	180	Channel 6
		V						
3249.33	38.41	H	74	-35.59	Peak	1.75	270	Fundamental of LO for
3249.33	28.58	H	54	-25.42	Avg	1.75	270	Channel 6
6498.67	47.01	H	--	--	Peak	1.5	225	2nd Harmonic of LO for
6498.67	38.54	H	--	--	Avg	1.5	225	Channel 6
9748	40.3	H	--	--	Peak	1.25	180	3rd Harmonic of LO for
9748	26.92	H	--	--	Avg	1.25	180	Channel 6
12997.3	42.32	H	--	--	Peak	2.25	270	4th Harmonic of LO for
12997.3	29.05	H	--	--	Avg	2.25	270	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 11 - 802.11 b Mode **Transmit Mode**

Gain : 16.0 (99%) Pk. Pwr.: 19.28 dBm (100%) Pk. Pwr.: 19.62 dBm Avg. Power: 17.37 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	39.98	V	74	-34.02	Peak	2	315	Fundamental of LO for
3282.67	33.24	V	54	-20.76	Avg	2	315	Channel 11
6565.33	45.27	V	--	--	Peak	1.75	135	2nd Harmonic of LO for
6565.33	33.72	V	--	--	Avg	1.75	135	Channel 11
9848	40	V	--	--	Peak	2	135	3rd Harmonic of LO for
9848	26.32	V	--	--	Avg	2	135	Channel 11
13130.7	43.71	V	--	--	Peak	2	180	4th Harmonic of LO for
13130.7	29.41	V	--	--	Avg	2	180	of Channel 11
3282.67	38.83	H	74	-35.17	Peak	2.25	270	Fundamental of LO for
3282.67	29.01	H	54	-24.99	Avg	2.25	270	Channel 11
6565.33	44.97	H	--	--	Peak	2.25	315	2nd Harmonic of LO for
6565.33	33.19	H	--	--	Avg	2.25	315	Channel 11
9848	41.13	H	--	--	Peak	2	45	3rd Harmonic of LO for
9848	26.75	H	--	--	Avg	2	45	Channel 11
13130.7	44	H	--	--	Peak	2.25	180	4th Harmonic of LO for
13130.7	30.02	H	--	--	Avg	2.25	180	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation — Date: 07/23/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X

Model: WM3B2915ABG — Tested By: Ben Chavez

Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 6 - 802.11 b Mode

Receive Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	38.61	V	74	-35.39	Peak	2.82	315	Fundamental of LO for
3249.33	32.21	V	60	-27.79	Avg	2.82	315	Channel 6
6498.67	46.02	V	74	-27.98	Peak	120.5	180	2nd Harmonic of LO for
6498.67	35.9	V	60	-24.1	Avg	120.5	180	Channel 6
9748	40.16	V	74	-33.84	Peak	181.2	270	3rd Harmonic of LO for
9748	26.06	V	60	-33.94	Avg	181.2	270	Channel 6
3249.33	37.45	H	74	-36.55	Peak	277.8	0	Fundamental of LO for
3249.33	26.85	H	60	-33.15	Avg	277.8	0	Channel 6
6498.67	44.17	H	74	-29.83	Peak	2.95	270	2nd Harmonic of LO for
6498.67	30.91	H	60	-29.09	Avg	2.95	270	Channel 6
9748	40.34	H	74	-33.66	Peak	2.95	225	3rd Harmonic of LO for
9748	26.11	H	60	-33.89	Avg	2.95	225	Channel 6

FCC 15.247

Intel Corporation — Date: 07/25/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X

Model: WM3B2915ABG — Tested By: Arnold Gaffud

Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 1 - 802.11 g Mode **Transmit Mode**

Gain : 19.5 (99%) Pk. Pwr.: 24.25 dBm (100%) Pk. Pwr.: 25.68 dBm Avg. Power: 18.26 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	48.33	V	74	-25.67	Peak	1.25	90	
4824	33.2	V	54	-20.8	Avg	1.25	90	
7236	43.74	V	74	-30.26	Peak	1.5	90	
7236	30.97	V	54	-23.03	Avg	1.5	90	
9648	41.99	V	--	--	Peak	1.25	45	Not in Restricted Band
9648	27.47	V	--	--	Avg	1.25	45	Not in Restricted Band
12060	46.5	V	74	-27.5	Peak	1.5	135	
12060	31.47	V	54	-22.53	Avg	1.5	135	
14472	48.59	V	74	-25.41	Peak	1.75	90	
14472	34.32	V	54	-19.68	Avg	1.75	90	
16884	49.46	V	--	--	Peak	1.5	90	Not in Restricted Band
16884	33.92	V	--	--	Avg	1.5	90	Not in Restricted Band
19296		V	74	-74	Peak			No emissions
19296		V	54	-54	Avg			detected
21708		V	--	--	Peak			No emissions
21708		V	--	--	Avg			detected
24120		V	--	--	Peak			No emissions
24120		V	--	--	Avg			detected

FCC 15.247

Intel Corporation — Date: 07/25/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X

Model: WM3B2915ABG — Tested By: Arnold Gaffud

Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 1 - 802.11 g Mode **Transmit Mode**

Gain : 19.5 (99%) Pk. Pwr.: 24.25 dBm (100%) Pk. Pwr.: 25.68 dBm Avg. Power: 18.26 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	48.41	H	74	-25.59	Peak	2	180	
4824	32.81	H	54	-21.19	Avg	2	180	
7236	43.6	H	74	-30.4	Peak	2	180	
7236	32.67	H	54	-21.33	Avg	2	180	
9648	43.36	H	--	--	Peak	2	270	Not in Restricted Band
9648	29.47	H	--	--	Avg	2	270	Not in Restricted Band
12060	46.77	H	74	-27.23	Peak	2	135	
12060	31.54	H	54	-22.46	Avg	2	135	
14472	48.97	H	74	-25.03	Peak	2	180	
14472	34.14	H	54	-19.86	Avg	2	180	
16884	48.79	H	--	--	Peak	2	180	Not in Restricted Band
16884	33.87	H	--	--	Avg	2	180	Not in Restricted Band
19296		H	74	-74	Peak			No emissions
19296		H	54	-54	Avg			detected
21708		H	--	--	Peak			No emissions
21708		H	--	--	Avg			detected
24120		H	--	--	Peak			No emissions
24120		H	--	--	Avg			detected

FCC 15.247

Intel Corporation — Date: 07/25/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Arnold Gaffud
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 6 - 802.11 g Mode **Transmit Mode**

Gain : 19.0 (99%) Pk. Pwr.: 24.17 dBm (100%) Pk. Pwr.: 25.55 dBm Avg. Power: 18.26 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	42.54	V	74	-31.46	Peak	1.5	180	
4874	27.03	V	54	-26.97	Avg	1.5	180	
7311	45.09	V	74	-28.91	Peak	1.5	180	
7311	31.04	V	54	-22.96	Avg	1.5	180	
9748	42.39	V	--	--	Peak	1.25	180	Not in Restricted Band
9748	27.89	V	--	--	Avg	1.25	180	Not in Restricted Band
12185	47.31	V	74	-26.69	Peak	1.5	45	
12185	32.67	V	54	-21.33	Avg	1.5	45	
14622	49.97	V	--	--	Peak	1.5	315	Not in Restricted Band
14622	36.12	V	--	--	Avg	1.5	315	Not in Restricted Band
17059		V	--	--	Peak			No emissions
17059		V	--	--	Avg			detected
19496		V	74	-74	Peak			No emissions
19496		V	54	-54	Avg			detected
21933		V	--	--	Peak			No emissions
21933		V	--	--	Avg			detected
22001		V	74	-74	Peak			No emissions
22001		V	54	-54	Avg			detected
24370		V	--	--	Peak			No emissions
24370		V	--	--	Avg			detected

FCC 15.247
Intel Corporation Date: 07/25/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: X
Model: WM3B2915ABG Tested By: Arnold Gaffud
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 6 - 802.11 g Mode Transmit Mode
Gain : 19.0 (99%) Pk. Pwr.: 24.17 dBm (100%) Pk. Pwr.: 25.55 dBm Avg. Power: 18.26 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	41.78	H	74	-32.22	Peak	2	0	
4874	26.73	H	54	-27.27	Avg	2	0	
7311	45.01	H	74	-28.99	Peak	2	0	
7311	30.96	H	54	-23.04	Avg	2	0	
9748	43.85	H	--	--	Peak	2	180	Not in Restricted Band
9748	28.48	H	--	--	Avg	2	180	Not in Restricted Band
12185	47.51	H	74	-26.49	Peak	1.5	0	
12185	32.85	H	54	-21.15	Avg	1.5	0	
14622	51.37	H	--	--	Peak	2	0	Not in Restricted Band
14622	35.88	H	--	--	Avg	2	0	Not in Restricted Band
17059		H	--	--	Peak			No emissions
17059		H	--	--	Avg			detected
19496		H	74	-74	Peak			No emissions
19496		H	54	-54	Avg			detected
21933		H	--	--	Peak			No emissions
21933		H	--	--	Avg			detected
22001		H	74	-74	Peak			No emissions
22001		H	54	-54	Avg			detected
24370		H	--	--	Peak			No emissions
24370		H	--	--	Avg			detected

FCC 15.247

Intel Corporation — Date: 07/25/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X

Model: WM3B2915ABG — Tested By: Arnold Gaffud

Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 11 - 802.11 g Mode **Transmit Mode**

Gain : 20.0 (99%) Pk. Pwr.: 24.11 dBm (100%) Pk. Pwr.: 25.50 dBm Avg. Power: 18.31 dBm

Freq. (MHz)		Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	46.18	V	74	-27.82	Peak	1.25	135	
4924	30.53	V	54	-23.47	Avg	1.25	135	
7386	43.83	V	74	-30.17	Peak	1.25	135	
7386	30.52	V	54	-23.48	Avg	1.25	135	
9848	42.84	V	--	--	Peak	1.5	0	Not in Restricted Band
9848	29.94	V	--	--	Avg	1.5	0	Not in Restricted Band
12310	46.32	V	74	-27.68	Peak	1.25	0	
12310	32.2	V	54	-21.8	Avg	1.25	0	
14772	51.11	V	--	--	Peak	1.75	90	Not in Restricted Band
14772	36.92	V	--	--	Avg	1.75	90	Not in Restricted Band
17234		V	--	--	Peak			No emissions
17234		V	--	--	Avg			detected
19696		V	74	-74	Peak			No emissions
19696		V	54	-54	Avg			detected
22158		V	74	-74	Peak			No emissions
22158		V	54	-54	Avg			detected
24620		V	--	--	Peak			No emissions
24620		V	--	--	Avg			detected

FCC 15.247

Intel Corporation — Date: 07/25/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Arnold Gaffud
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 11 - 802.11 g Mode **Transmit Mode**

Gain : 20.0 (99%) Pk. Pwr.: 24.11 dBm (100%) Pk. Pwr.: 25.50 dBm Avg. Power: 18.31 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	45.31	H	74	-28.69	Peak	2	180	
4924	30.02	H	54	-23.98	Avg	2	180	
7386	44.57	H	74	-29.43	Peak	2	180	
7386	29.95	H	54	-24.05	Avg	2	180	
9848	42.89	H	--	--	Peak	2	315	Not in Restricted Band
9848	27.62	H	--	--	Avg	2	315	Not in Restricted Band
12310	46.02	H	74	-27.98	Peak	2	315	
12310	31.93	H	54	-22.07	Avg	2	315	
14772	51.85	H	--	--	Peak	2	270	Not in Restricted Band
14772	36.96	H	--	--	Avg	2	270	Not in Restricted Band
17234		H	--	--	Peak			No emissions
17234		H	--	--	Avg			detected
19696		H	74	-74	Peak			No emissions
19696		H	54	-54	Avg			detected
22158		H	74	-74	Peak			No emissions
22158		H	54	-54	Avg			detected
24620		H	--	--	Peak			No emissions
24620		H	--	--	Avg			detected

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 1 - 802.11 g Mode **Transmit Mode**
Gain : 19.5 (99%) Pk. Pwr.: 24.25 dBm (100%) Pk. Pwr.: 25.68 dBm Avg. Power: 18.26 dBm
Channel 6 - 802.11 g Mode **Transmit Mode**
Gain : 19.0 (99%) Pk. Pwr.: 24.17 dBm (100%) Pk. Pwr.: 25.55 dBm Avg. Power: 18.26 dBm
Channel 11 - 802.11 g Mode **Transmit Mode**
Gain : 20.0 (99%) Pk. Pwr.: 24.11 dBm (100%) Pk. Pwr.: 25.50 dBm Avg. Power: 18.31 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2312	61.14	V	83.5	-22.36	Peak	1.25	270	103 MHz Below the Fundamental
2312	53.32	V	63.5	-10.18	Avg	1.25	270	of Channel 1
2512	60.54	V	83.5	-22.96	Peak	1	270	103 MHz Above the Fundamental
2512	52.16	V	63.5	-11.34	Avg	1	270	of Channel 1
2312	63.04	H	83.5	-20.46	Peak	1.25	225	103 MHz Below the Fundamental
2312	55.32	H	63.5	-8.18	Avg	1.25	225	of Channel 1
2512	61.41	H	83.5	-22.09	Peak	1	225	103 MHz Above the Fundamental
2512	52.38	H	63.5	-11.12	Avg	1	225	of Channel 1
2336	61.06	V	83.5	-22.44	Peak	1.5	315	103 MHz Below the Fundamental
2336	55.9	V	63.5	-7.6	Avg	1.5	315	of Channel 6
2538.7	61.38	V	83.5	-22.12	Peak	1.25	270	103 MHz Above the Fundamental
2538.7	53.25	V	63.5	-10.25	Avg	1.25	270	of Channel 6
2336	62.03	H	83.5	-21.47	Peak	1	225	103 MHz Below the Fundamental
2336	56.44	H	63.5	-7.06	Avg	1	225	of Channel 6
2538.7	60.71	H	83.5	-22.79	Peak	1.25	225	103 MHz Above the Fundamental
2538.7	53.91	H	63.5	-9.59	Avg	1.25	225	of Channel 6
2360	61.66	V	83.5	-21.84	Peak	1.5	315	103 MHz Below the Fundamental
2360	54.93	V	63.5	-8.57	Avg	1.5	315	of Channel 11
2565	55.64	V	83.5	-27.86	Peak	1.25	270	103 MHz Above the Fundamental
2565	45.89	V	63.5	-17.61	Avg	1.25	270	of Channel 11
2360	61.97	H	83.5	-21.53	Peak	1	225	103 MHz Below the Fundamental
2360	54.92	H	63.5	-8.58	Avg	1	225	of Channel 11
2564	57.66	H	83.5	-25.84	Peak	1	225	103 MHz Above the Fundamental
2564	48.53	H	63.5	-14.97	Peak	1	225	of Channel 11

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 1 - 802.11 g Mode **Transmit Mode**

Gain : 19.5 (99%) Pk. Pwr.: 24.25 dBm (100%) Pk. Pwr.: 25.68 dBm Avg. Power: 18.26 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	37.57	V	74	-36.43	Peak	2	270	Fundamental of LO for
3216	28.04	V	54	-25.96	Avg	2	270	Channel 1
6432	46.19	V	--	--	Peak	2	180	2nd Harmonic of LO for
6432	38.22	V	--	--	Avg	2	180	Channel 1
9648	41.99	V	--	--	Peak	1.25	45	3rd Harmonic of LO
9648	27.47	V	--	--	Avg	1.25	45	Channel 1
12864	43.85	V	--	--	Peak	2	180	4th Harmonic of LO for
12864	29.81	V	--	--	Avg	2	180	Channel 1
3216	37.37	H	74	-36.63	Peak	2	315	Fundamental of LO for
3216	27.96	H	54	-26.04	Avg	2	315	Channel 1
6432	45.71	H	--	--	Peak	1.5	225	2nd Harmonic of LO for
6432	37.56	H	--	--	Avg	1.5	225	Channel 1
9648	43.36	H	--	--	Peak	2	270	3rd Harmonic of LO
9648	29.47	H	--	--	Avg	2	270	Channel 1
12864	44.7	H	--	--	Peak	1.75	180	4th Harmonic of LO for
12864	29.69	H	--	--	Avg	1.75	180	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 6 - 802.11 g Mode **Transmit Mode**

Gain : 19.0 (99%) Pk. Pwr.: 24.17 dBm (100%) Pk. Pwr.: 25.55 dBm Avg. Power: 18.26 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	39.17	V	74	-34.83	Peak	2	45	Fundamental of LO for
3249.33	31.22	V	54	-22.78	Avg	2	45	Channel 6
6498.67	50.01	V	--	--	Peak	1.25	135	2nd Harmonic of LO for
6498.67	44.7	V	--	--	Avg	1.25	135	Channel 6
9748	42.39	V	--	--	Peak	1.25	180	3rd Harmonic of LO
9748	27.89	V	--	--	Avg	1.25	180	Channel 6
12997.3	42.01	V	--	--	Peak	2	180	4th Harmonic of LO for
12997.3	28.84	V	--	--	Avg	2	180	Channel 6
3249.33	38.61	H	74	-35.39	Peak	3.5	225	Fundamental of LO for
3249.33	28.14	H	54	-25.86	Avg	3.5	225	Channel 6
6498.67	47.83	H	--	--	Peak	1	135	2nd Harmonic of LO for
6498.67	40.87	H	--	--	Avg	1	135	Channel 6
9748	43.85	H	--	--	Peak	2	180	3rd Harmonic of LO
9748	28.48	H	--	--	Avg	2	180	Channel 6
12997.3	42.4	H	--	--	Peak	2	135	4th Harmonic of LO for
12997.3	28.96	H	--	--	Avg	2	135	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 11 - 802.11 g Mode **Transmit Mode**

Gain : 20.0 (99%) Pk. Pwr.: 24.11 dBm (100%) Pk. Pwr.: 25.50 dBm Avg. Power: 18.31 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	39.79	V	74	-34.21	Peak	2.75	45	Fundamental of LO for
3282.67	31.03	V	54	-22.97	Avg	2.75	45	Channel 11
6565.33	47.14	V	--	--	Peak	2	135	2nd Harmonic of LO for
6565.33	39.55	V	--	--	Avg	2	135	Channel 11
9848	42.84	V	--	--	Peak	1.5	0	3rd Harmonic of LO
9848	29.94	V	--	--	Avg	1.5	0	Channel 11
13130.7	44.04	V	--	--	Peak	1.75	180	4th Harmonic of LO for
13130.7	29.9	V	--	--	Avg	1.75	180	of Channel 11
3282.67	39.27	H	74	-34.73	Peak	2	225	Fundamental of LO for
3282.67	30.91	H	54	-23.09	Avg	2	225	Channel 11
6565.33	45.57	H	--	--	Peak	2.25	225	2nd Harmonic of LO for
6565.33	35.58	H	--	--	Avg	2.25	225	Channel 11
9848	42.89	H	--	--	Peak	2	315	3rd Harmonic of LO
9848	27.62	H	--	--	Avg	2	315	Channel 11
13130.7	43.28	H	--	--	Peak	1.5	180	4th Harmonic of LO for
13130.7	29.94	H	--	--	Avg	1.5	180	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation — Date: 07/26/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X

Model: WM3B2915ABG — Tested By: Arnold Gaffud

Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 6 - 802.11 g Mode
Receive Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	38.17	V	74	-35.83	Peak	1.5	180	Fundamental of LO for
3249.33	23.28	V	60	-36.72	Avg	1.5	180	Channel 6
6498.67	45.54	V	74	-28.46	Peak	1.5	180	2nd Harmonic of LO for
6498.67	31.15	V	60	-28.85	Avg	1.5	180	Channel 6
9748	42.08	V	74	-31.92	Peak	2	225	3rd Harmonic of LO for
9748	27.02	V	60	-32.98	Avg	2	225	Channel 6
3249.33	37.58	H	74	-36.42	Peak	2	180	Fundamental of LO for
3249.33	23.01	H	60	-36.99	Avg	2	180	Channel 6
6498.67	44.19	H	74	-29.81	Peak	2	135	2nd Harmonic of LO for
6498.67	30.85	H	60	-29.15	Avg	2	135	Channel 6
9748	41.22	H	74	-32.78	Peak	2	180	3rd Harmonic of LO for
9748	26.22	H	60	-33.78	Avg	2	180	Channel 6

FCC 15.247

Intel Corporation | Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter | Lab: B
Model: WM3B2195ABG | Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 149 - 802.11 a Mode **Transmit Mode**
Gain : 17.0 (99%) Pk. Pwr.: 21.74 dBm (100%) Pk. Pwr.: 22.37 dBm Avg. Power: 17.21 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11490	59.99	V	74	-14.01	Peak	2.61	180	
11490	45.68	V	54	-8.32	Avg	2.61	180	
17235		V	--	--	Peak			No Emissions
17235		V	--	--	Avg			Detected
22980		V	74	-74	Peak			No Emissions
22980		V	54	-54	Avg			Detected
28725		V	--	--	Peak			No Emissions
28725		V	--	--	Avg			Detected
34470		V	--	--	Peak			No Emissions
34470		V	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: B

Model: WM3B2195ABG — Tested By: Ben Chavez

Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 149 - 802.11 a Mode **Transmit Mode**

Gain : 17.0 (99%) Pk. Pwr.: 21.74 dBm (100%) Pk. Pwr.: 22.37 dBm Avg. Power: 17.21 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11490	57.7	H	74	-16.3	Peak	2.33	180	
11490	44.65	H	54	-9.35	Avg	2.33	180	
17235		H	--	--	Peak			No Emissions
17235		H	--	--	Avg			Detected
22980		H	74	-74	Peak			No Emissions
22980		H	54	-54	Avg			Detected
28725		H	--	--	Peak			No Emissions
28725		H	--	--	Avg			Detected
34470		H	--	--	Peak			No Emissions
34470		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: B
Model: WM3B2195ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 157 - 802.11 a Mode **Transmit Mode**

Gain : 17.0 (99%) Pk. Pwr.: 21.79 dBm (100%) Pk. Pwr.: 22.41 dBm Avg. Power: 17.45 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11570	52.35	V	74	-21.65	Peak	2.56	90	
11570	41.26	V	54	-12.74	Avg	2.56	90	
17355		V	--	--	Peak			No Emissions
17355		V	--	--	Avg			Detected
23140		V	74	-74	Peak			No Emissions
23140		V	54	-54	Avg			Detected
28912.5		V	--	--	Peak			No Emissions
28912.5		V	--	--	Avg			Detected
34710		V	--	--	Peak			No Emissions
34710		V	--	--	Avg			Detected

FCC 15.247
Intel Corporation Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3B2195ABG Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 157 - 802.11 a Mode Transmit Mode
Gain : 17.0 (99%) Pk. Pwr.: 21.79 dBm (100%) Pk. Pwr.: 22.41 dBm Avg. Power: 17.45 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11570	56.35	H	74	-17.65	Peak	2.33	180	
11570	43.25	H	54	-10.75	Avg	2.33	180	
17355		H	--	--	Peak			No Emissions
17355		H	--	--	Avg			Detected
23140		H	74	-74	Peak			No Emissions
23140		H	54	-54	Avg			Detected
28912.5		H	--	--	Peak			No Emissions
28912.5		H	--	--	Avg			Detected
34710		H	--	--	Peak			No Emissions
34710		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: B
Model: WM3B2195ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 165 - 802.11 a Mode **Transmit Mode**

Gain : 18.0 (99%) Pk. Pwr.: 21.65 dBm (100%) Pk. Pwr.: 22.29 dBm Avg. Power: 17.25 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11650	59.67	V	74	-14.33	Peak	1.71	315	
11650	45.18	V	54	-8.82	Avg	1.71	315	
17475		V	--	--	Peak			No Emissions
17475		V	--	--	Avg			Detected
23300		V	--	--	Peak			No Emissions
23300		V	--	--	Avg			Detected
29125		V	--	--	Peak			No Emissions
29125		V	--	--	Avg			Detected
34950		V	--	--	Peak			No Emissions
34950		V	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: B
Model: WM3B2195ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 165 - 802.11 a Mode **Transmit Mode**

Gain : 18.0 (99%) Pk. Pwr.: 21.65 dBm (100%) Pk. Pwr.: 22.29 dBm Avg. Power: 17.25 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11650	57.7	H	74	-16.3	Peak	2.33	180	
11650	44.65	H	54	-9.35	Avg	2.33	180	
17475		H	--	--	Peak			No Emissions
17475		H	--	--	Avg			Detected
23300		H	--	--	Peak			No Emissions
23300		H	--	--	Avg			Detected
29125		H	--	--	Peak			No Emissions
29125		H	--	--	Avg			Detected
34950		H	--	--	Peak			No Emissions
34950		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: B
Model: WM3B2195ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 149 - 802.11 a Mode **Transmit Mode**

Gain : 17.0 (99%) Pk. Pwr.: 21.74 dBm (100%) Pk. Pwr.: 22.37 dBm Avg. Power: 17.21 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7660	53.87	V	74	-20.13	Peak	2.61	180	Fundamental of LO for
7660	41.21	V	54	-12.79	Avg	2.61	180	Channel 149
15320	54.25	V	74	-74	Peak	2.61	180	2nd Harmonic of LO for
15320	43.55	V	54	-54	Avg	2.61	180	Channel 149
22980		V	74	-74	Peak			No Emissions
22980		V	54	-54	Avg			Detected
30640		V	--	--	Peak			No Emissions
30640		V	--	--	Avg			Detected
38300		V	--	--	Peak			No Emissions
38300		V	--	--	Avg			Detected
7660	54.1	H	74	-19.9	Peak	2.21	225	Fundamental of LO for
7660	41.17	H	54	-12.83	Avg	2.21	225	Channel 149
15320	53.25	H	74	-20.75	Peak	2.21	225	2nd Harmonic of LO for
15320	43.66	H	54	-10.34	Avg	2.21	225	Channel 149
22980		H	74	-74	Peak			No Emissions
22980		H	54	-54	Avg			Detected
30640		H	--	--	Peak			No Emissions
30640		H	--	--	Avg			Detected
38300		H	--	--	Peak			No Emissions
38300		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: B
Model: WM3B2195ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 157 - 802.11 a Mode **Transmit Mode**

Gain : 17.0 (99%) Pk. Pwr.: 21.79 dBm (100%) Pk. Pwr.: 22.41 dBm Avg. Power: 17.45 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7713.33	55.46	V	74	-18.54	Peak	1.71	90	Fundamental of LO for
7713.3	41.55	V	54	-12.45	Avg	1.71	90	Channel 157
15246.7	64.79	V	--	--	Peak	1.71	0	2nd Harmonic of LO for
15246.7	51.68	V	--	--	Avg	1.71	0	Channel 157
23140		V	74	-74	Peak			No Emissions
23140		V	54	-54	Avg			Detected
30853		V	--	--	Peak			No Emissions
30853		V	--	--	Avg			Detected
38567		V	--	--	Peak			No Emissions
38567		V	--	--	Avg			Detected
7713.33	54.48	H	74	-19.52	Peak	2.33	180	Fundamental of LO for
7713.33	40.52	H	54	-13.48	Avg	2.33	180	Channel 157
15246.7	66.06	H	--	--	Peak	2.33	270	2nd Harmonic of LO for
15246.7	51.79	H	--	--	Avg	2.33	270	Channel 157
23140		H	74	-74	Peak			No Emissions
23140		H	54	-54	Avg			Detected
30853		H	--	--	Peak			No Emissions
30853		H	--	--	Avg			Detected
38567		H	--	--	Peak			No Emissions
38567		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: B
Model: WM3B2195ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 165 - 802.11 a Mode **Transmit Mode**

Gain : 18.0 (99%) Pk. Pwr.: 21.65 dBm (100%) Pk. Pwr.: 22.29 dBm Avg. Power: 17.25 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7766.67	53.55	V	--	--	Peak	2.44	180	Fundamental of LO for
7766.7	40.83	V	--	--	Avg	2.44	180	Channel 165
15533.3	62.94	V	74	-11.06	Peak	2.44	225	2nd Harmonic of LO for
15533	50.04	V	54	-3.96	Avg	2.44	225	Channel 165
23300		V	--	--	Peak			No Emissions
23300		V	--	--	Avg			Detected
31066		V	--	--	Peak			No Emissions
31066		V	--	--	Avg			Detected
38833		V	74	-74	Peak			No Emissions
38833		V	54	-54	Avg			Detected
7766.67	53.94	H	--	--	Peak	2.33	225	Fundamental of LO for
7766.7	40.85	H	--	--	Avg	2.33	225	Channel 165
15533.3	62.73	H	74	-11.27	Peak	2.33	315	2nd Harmonic of LO for
15533	50.05	H	54	-3.95	Avg	2.33	315	Channel 165
23300		H	--	--	Peak			No Emissions
23300		H	--	--	Avg			Detected
31066		H	--	--	Peak			No Emissions
31066		H	--	--	Avg			Detected
38833		H	74	-74	Peak			No Emissions
38833		H	54	-54	Avg			Detected

FCC 15.247

Intel Corporation — Date: 07/23/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: B

Model: WM3B2195ABG — Tested By: Ben Chavez

Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 157 - 802.11 a Mode
Receive Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7713.33	52.61	V	80	-27.39	Peak	2.14	225	Fundamental of LO for
7713.33	38.52	V	60	-21.48	Avg	2.14	225	Channel 157
15246.7	64.32	V	80	-15.68	Peak	2.14	45	2nd Harmonic of LO for
15246.7	51.81	V	60	-8.19	Avg	2.14	45	Channel 157
23140	55.38	V	80	-24.62	Peak	2	270	3rd Harmonic of LO for
23140	41.77	V	60	-18.23	Avg	2	270	Channel 157
7713.33	54.18	H	80	-25.82	Peak	1.57	225	Fundamental of LO for
7713.33	41.12	H	60	-18.88	Avg	1.57	225	Channel 157
15246.7	63.73	H	80	-16.27	Peak	1.57	225	2nd Harmonic of LO for
15246.7	51.82	H	60	-8.18	Avg	1.57	225	Channel 157
23140	55.1	H	80	-24.9	Peak	1.75	225	3rd Harmonic of LO for
23140	41.76	H	60	-18.24	Avg	1.75	225	Channel 157

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics — **Page** : 1/1
Customer : INTEL CORPORATION — **Date** : 7/28/2004
Manufacturer : INTEL CORPORATION — **Time** : 19:50:57
Eut name : Intel Mini PCI 802.11 ABG WLAN Adapter — **Lab** : D
Model : WM3B2915ABG — **Test Distance** : 3.0 Meters
Serial # :
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : TEST RANGE 10 kHz - 1000 MHz
VERTICAL AND HORIZONTAL POLARIZATIONS

TESTED BY: BENIGNO CHAVEZ

Pol	Freq	Rdng	Cable loss	Ant factor	Amp gain	Cor'd rdg = R	Limit = L	Delta R-L
	MHz	dBuV	dB	dB	dB	dBuV	dBuV/m	dB
1H	196.648	58.40	1.37	14.80	37.59	36.99	43.50	-6.51
2V	196.699	55.90	1.38	14.81	37.59	34.49	43.50	-9.01
3V	230.124	54.20	1.52	15.97	37.58	34.11	46.00	-11.89
4H	230.201	57.20	1.52	15.97	37.58	37.11	46.00	-8.89
5H	489.092	43.30	2.26	15.84	37.08	24.32	46.00	-21.68
6V	489.129	44.00	2.26	15.84	37.08	25.02	46.00	-20.98
7H	869.834	53.50	2.98	20.92	36.40	40.99	46.00	-5.01

FCC 15.247

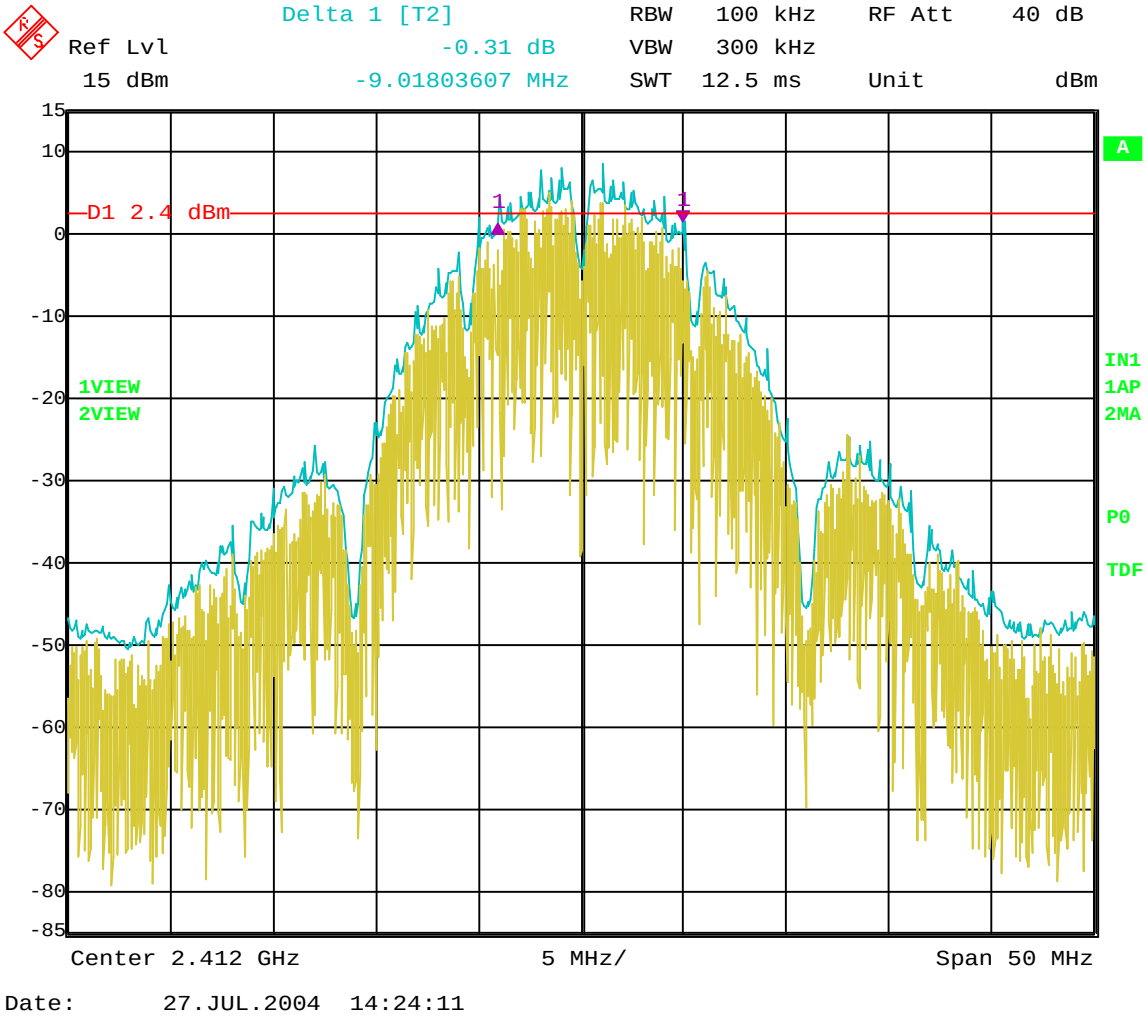
Intel Corporation — Date: 07/26/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Arnold Gaffud
Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Digital Portion

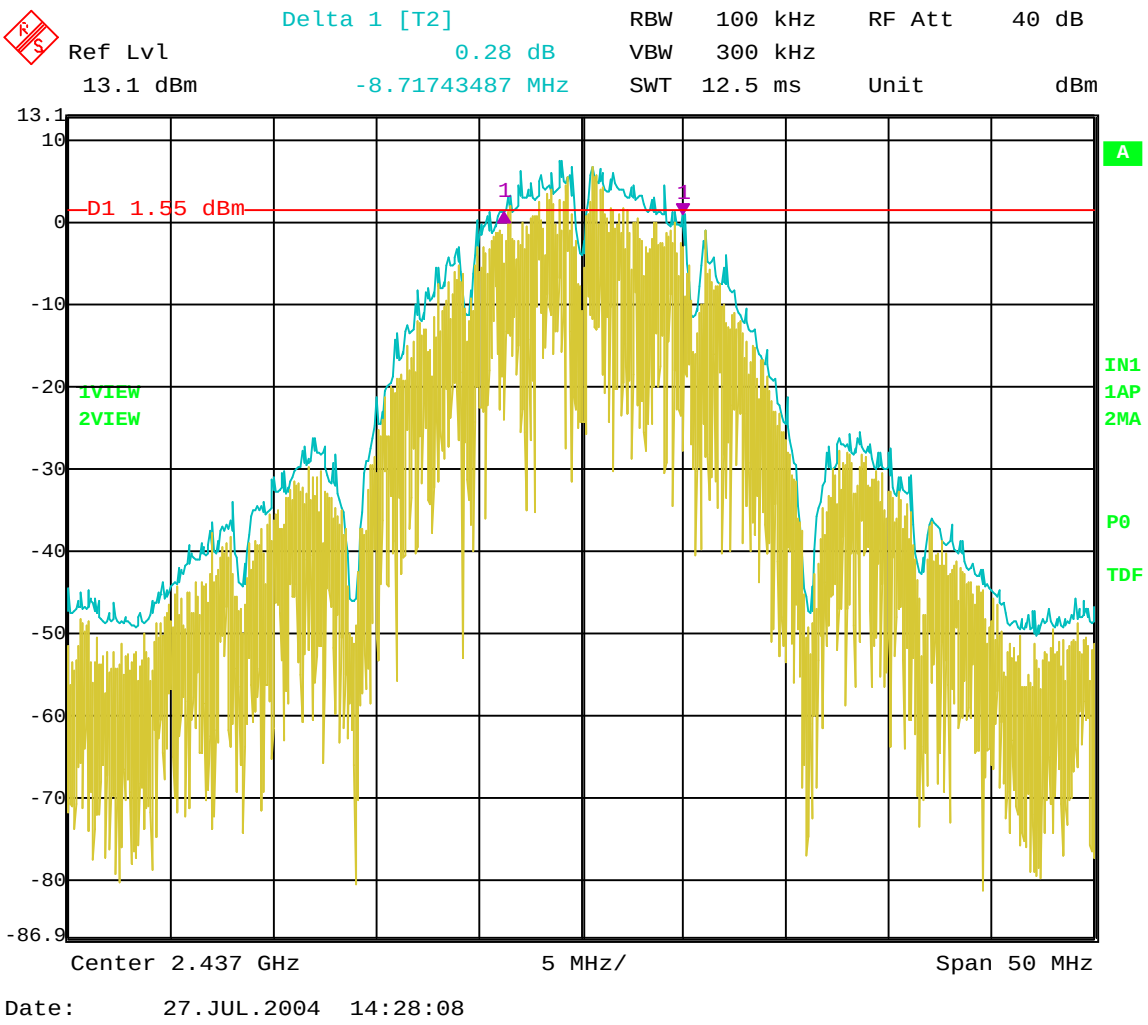
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1249.8	32.51	V	74	-41.49	Peak	1.25	135	
1249.8	21.7	V	54	-32.3	Avg	1.25	135	
1400.3	33.63	H	74	-40.37	Peak	2	225	
1400.3	18.89	H	54	-35.11	Avg	2	225	
2068.2	40.36	H	74	-33.64	Peak	2	270	
2068.2	24.59	H	54	-29.41	Avg	2	270	

-6 dB BANDWIDTH

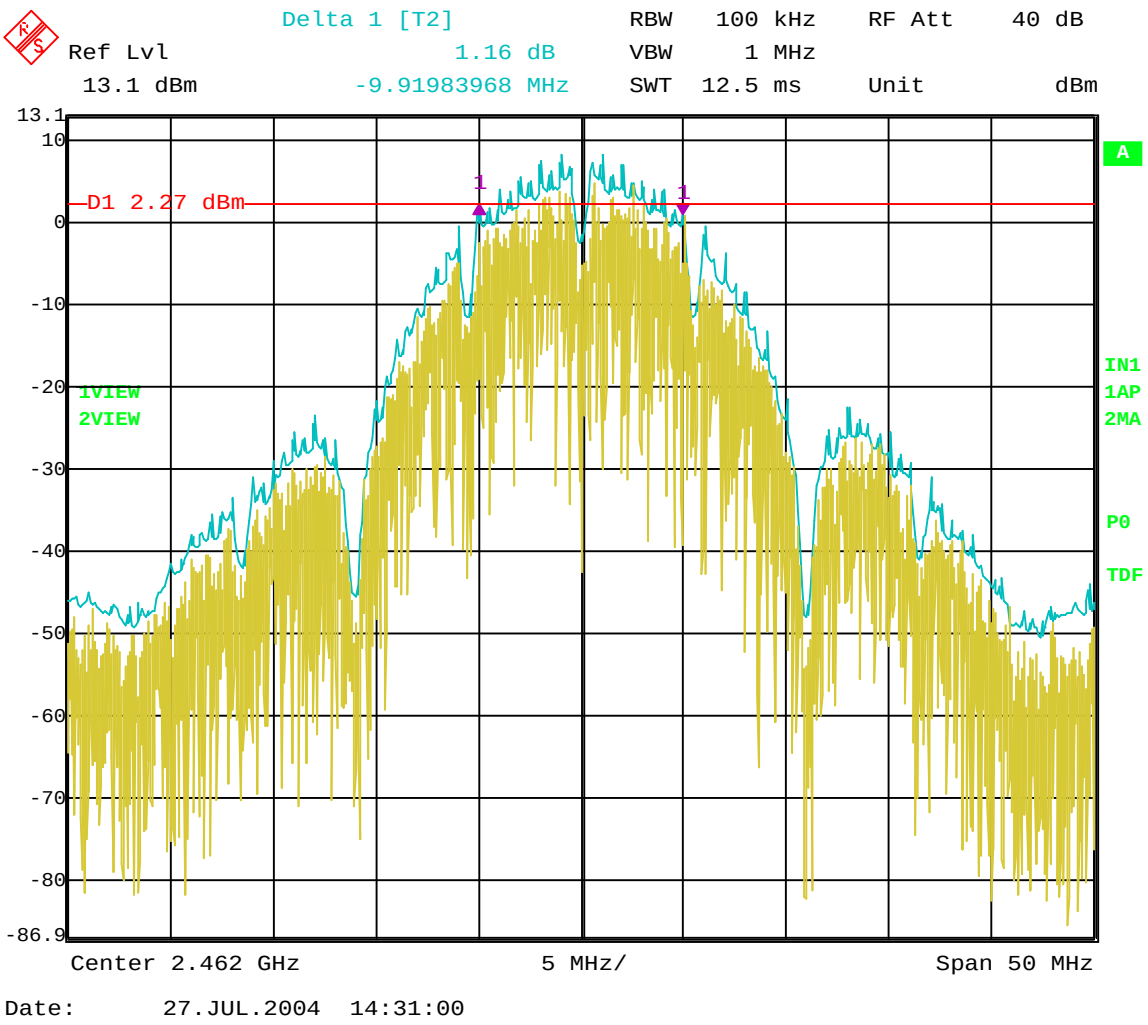
DATA SHEETS



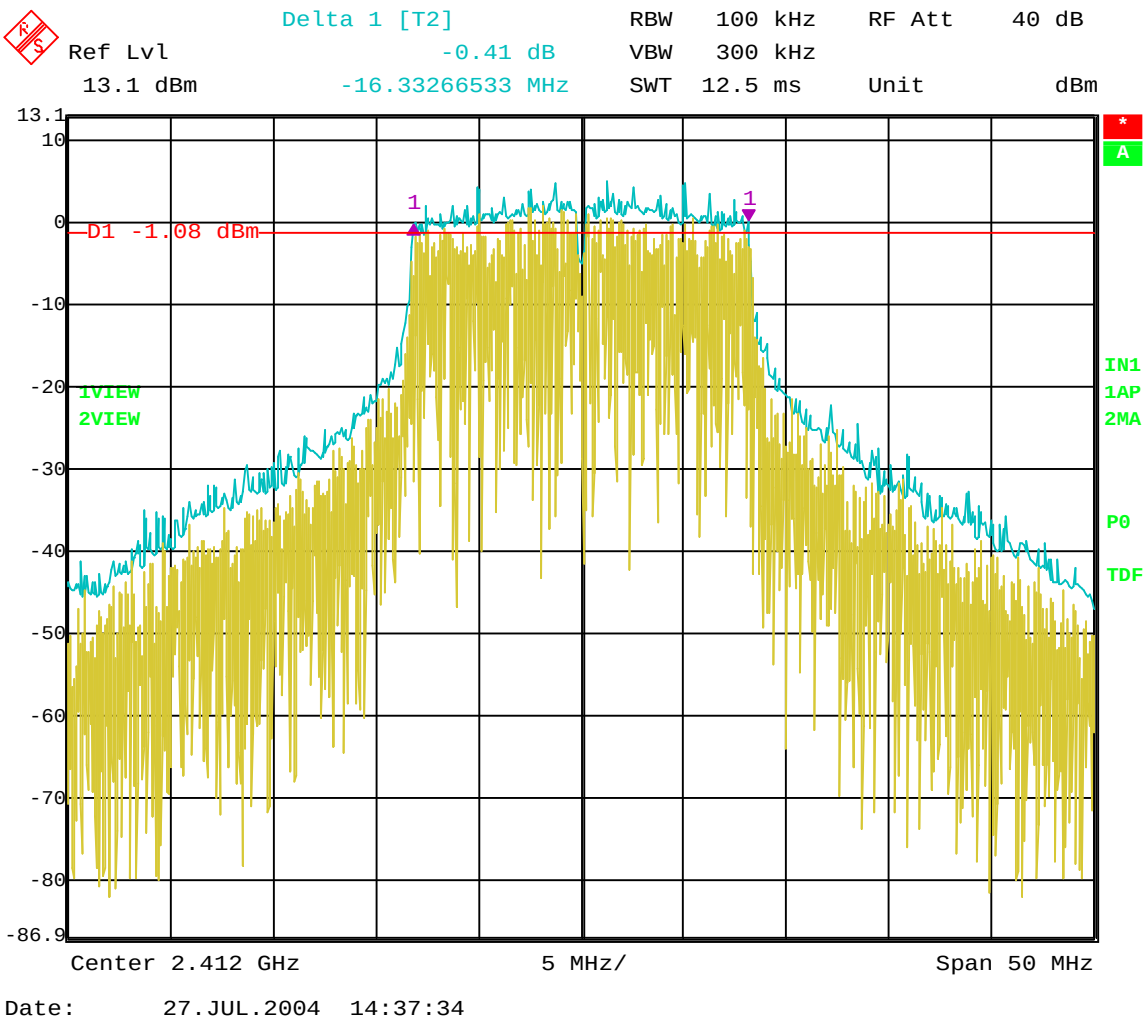
Bandwidth 6 dB – Channel 1 – 802.11 b Mode



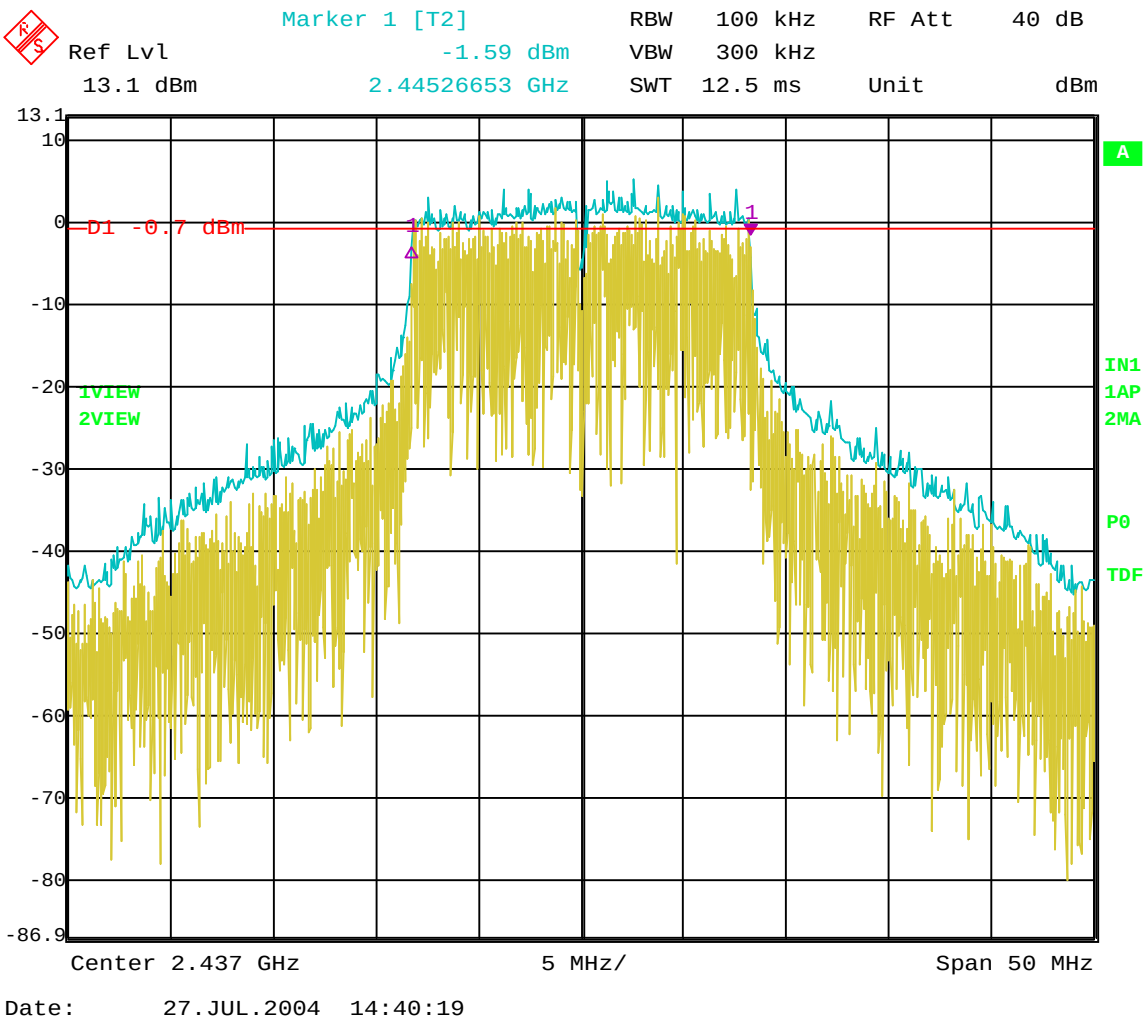
Bandwidth 6 dB – Channel 6 – 802.11 b Mode



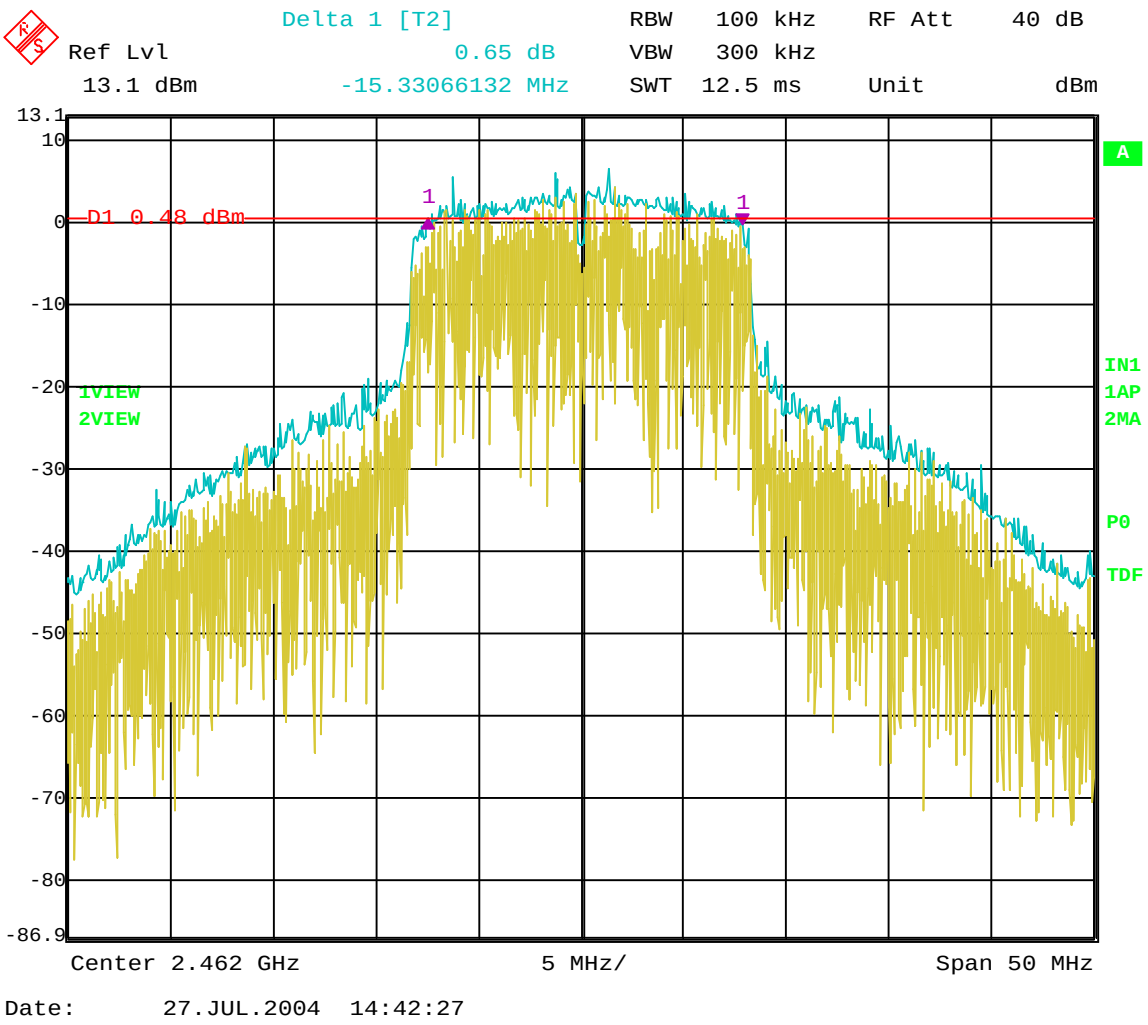
Bandwidth 6 dB – Channel 11 – 802.11 b Mode



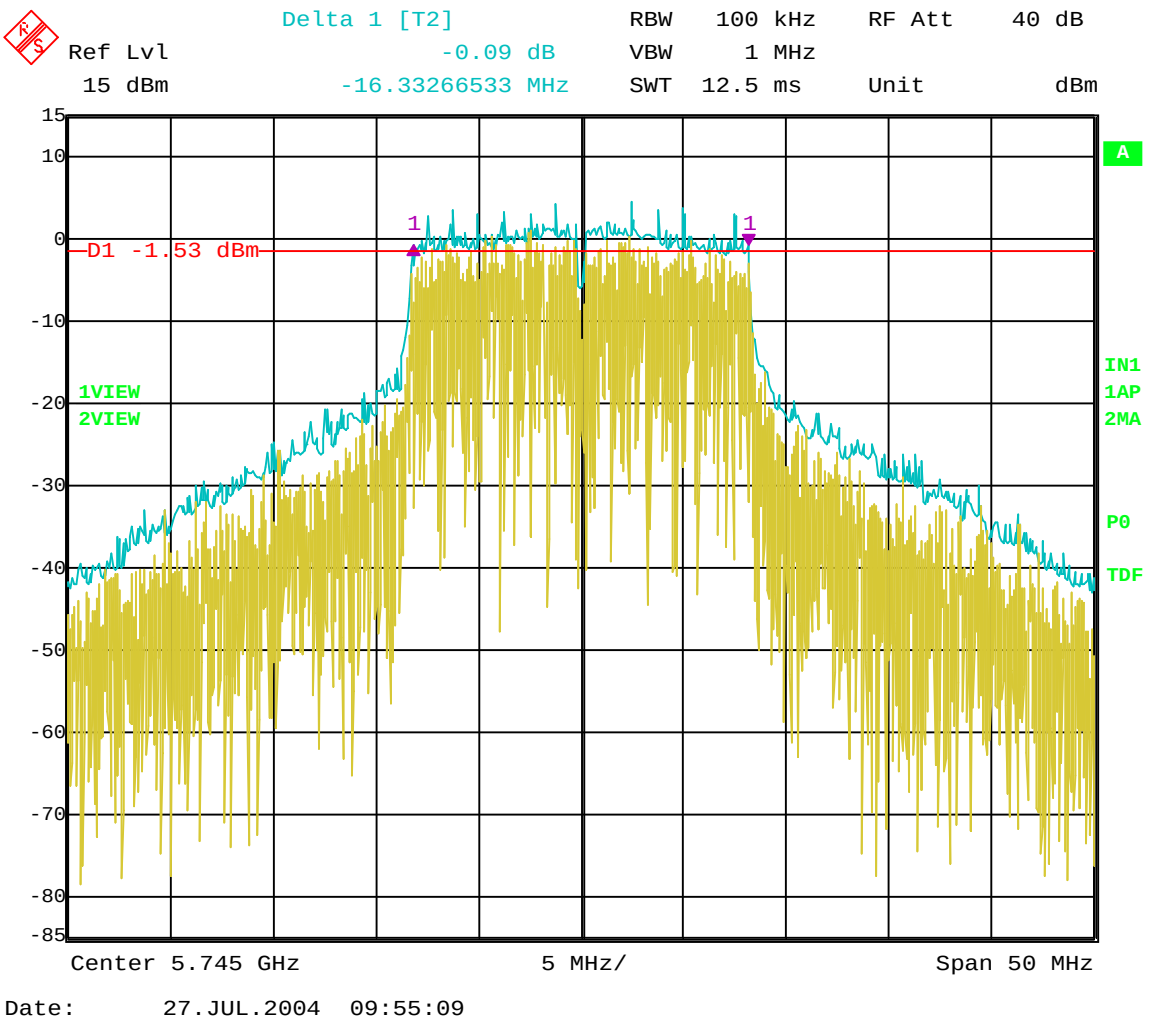
Bandwidth 6 dB – Channel 1 – 802.11 g Mode



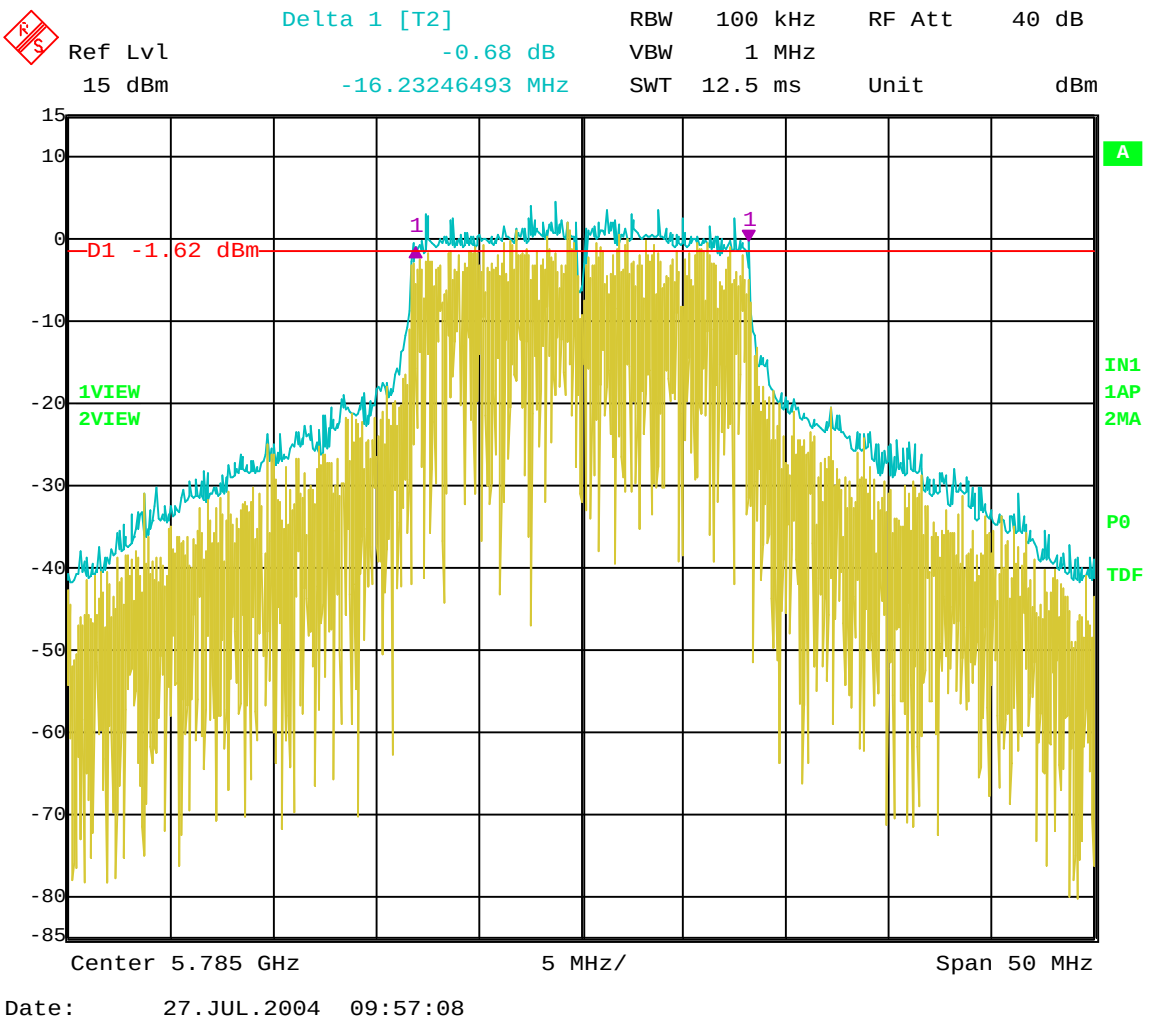
Bandwidth 6 dB – Channel 6 – 802.11 g Mode



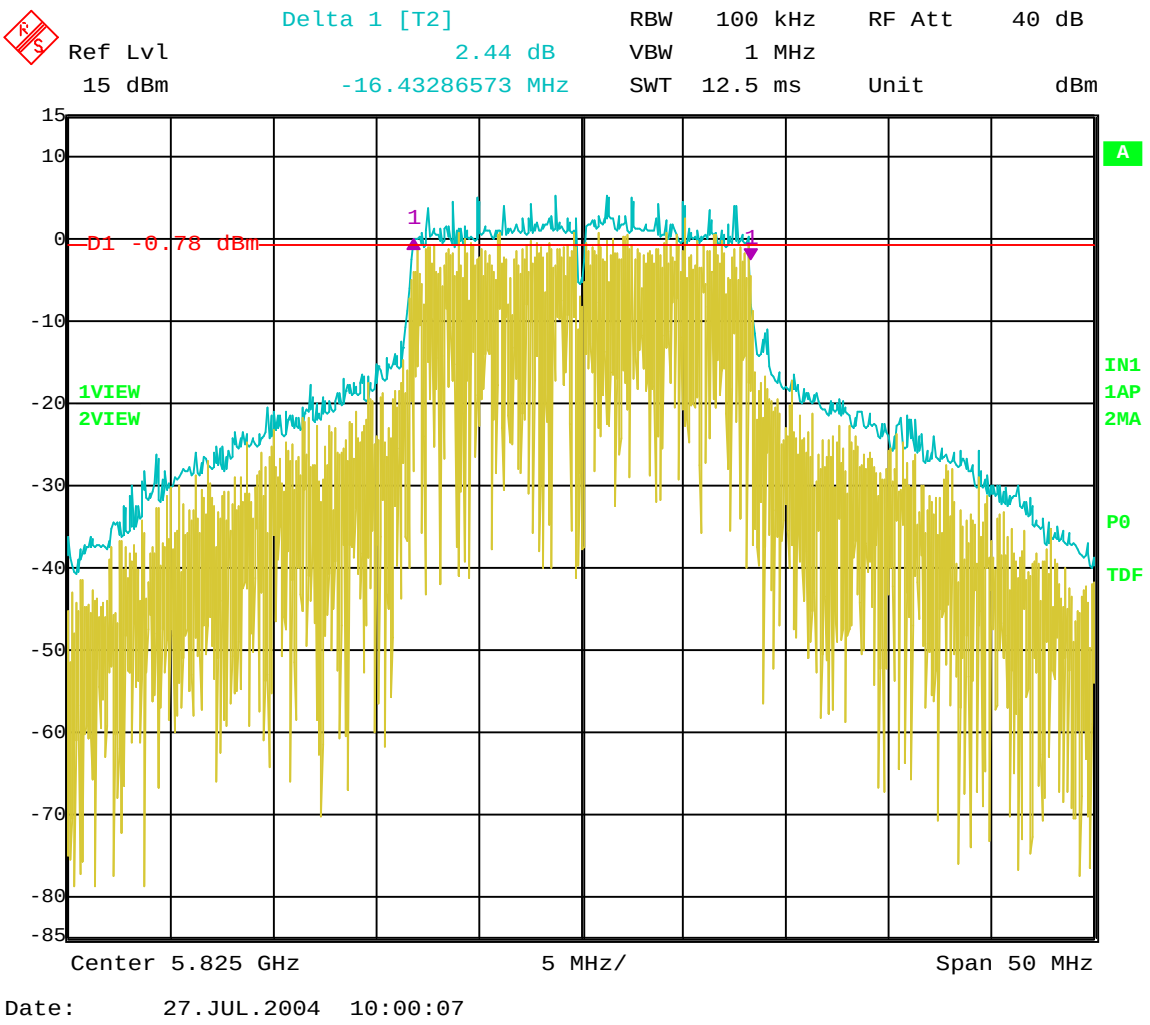
Bandwidth 6 dB – Channel 11 – 802.11 g Mode



Bandwidth 6 dB – Channel 149 – 802.11 a Mode



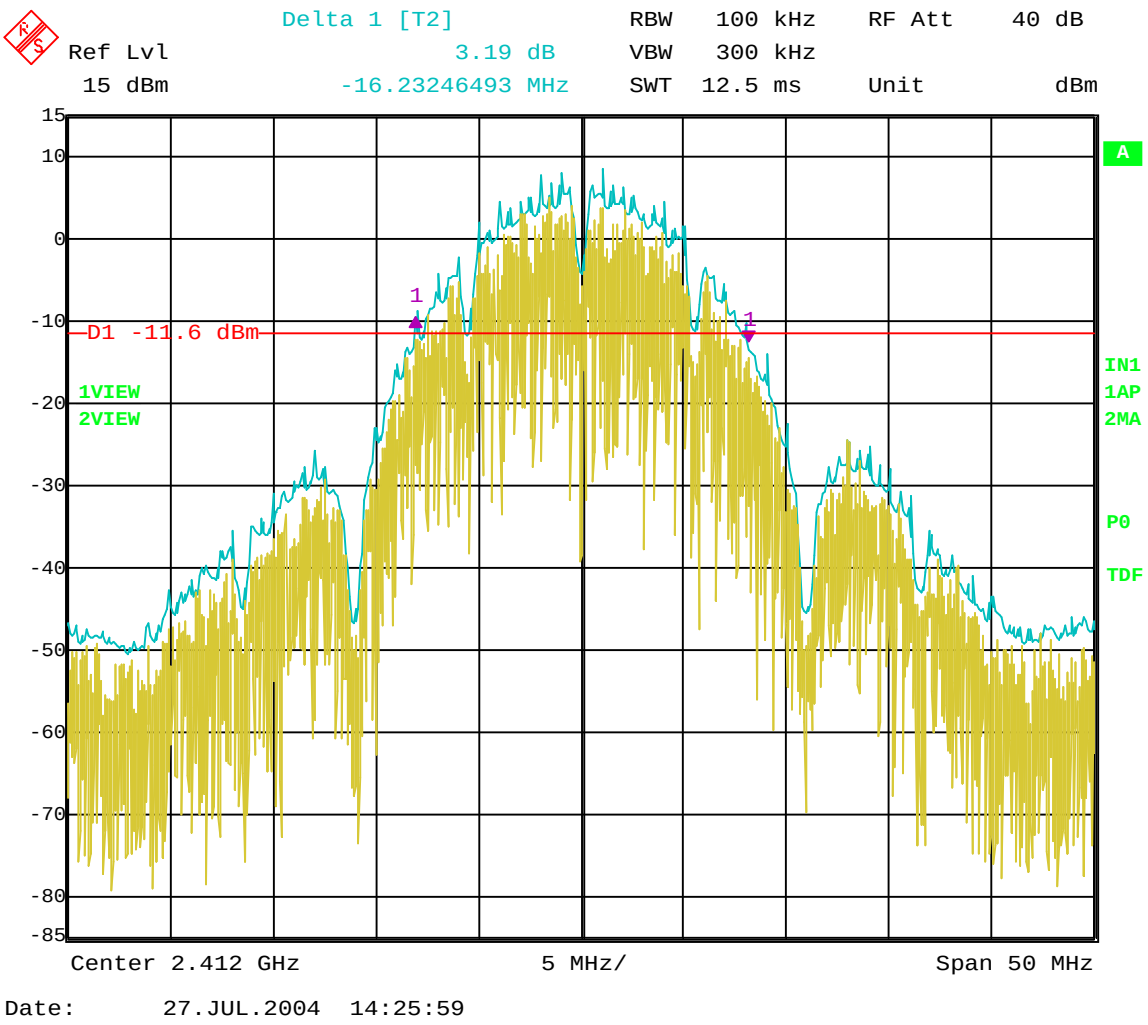
Bandwidth 6 dB – Channel 157 – 802.11 a Mode



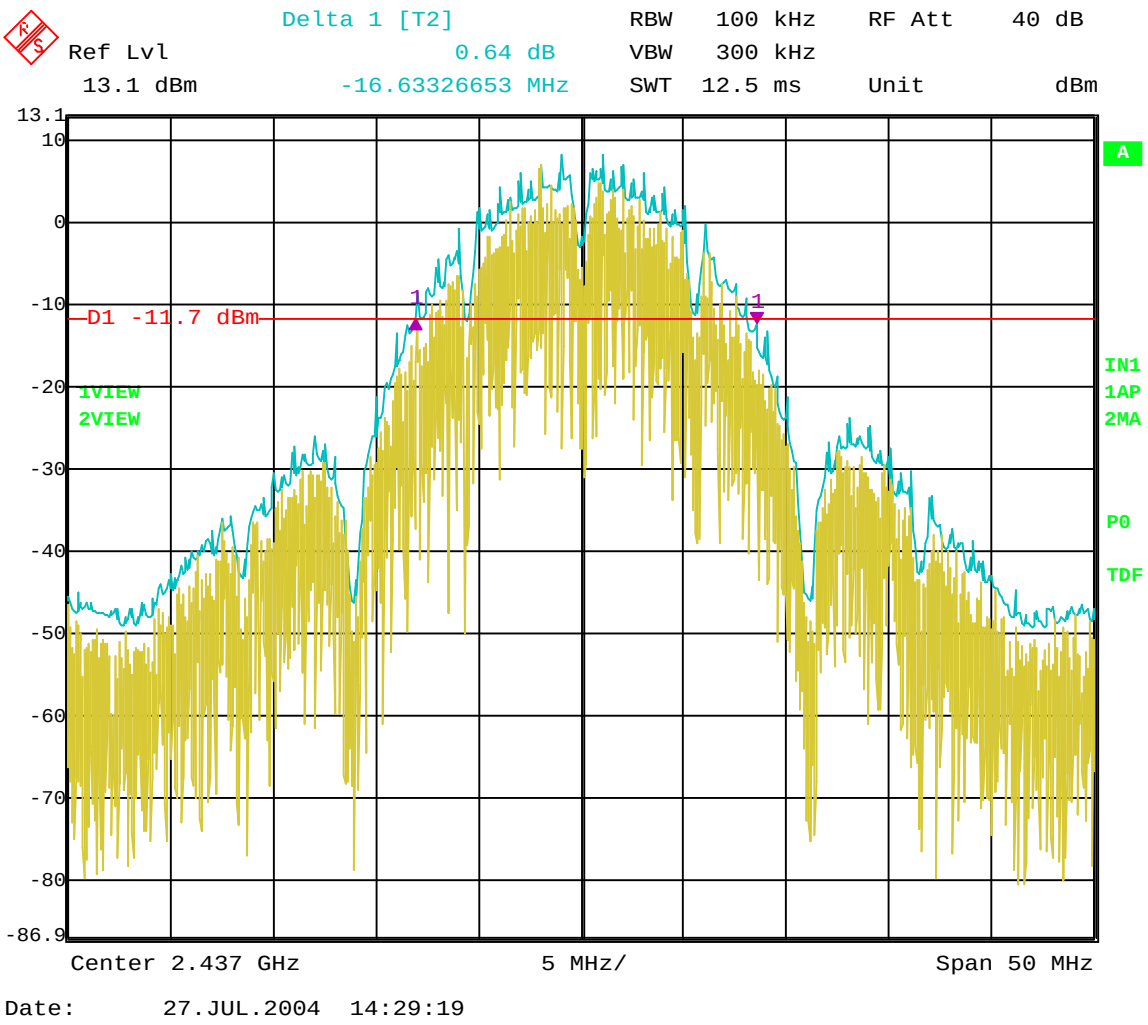
Bandwidth 6 dB – Channel 165 – 802.11 a Mode

-20 dB BANDWIDTH

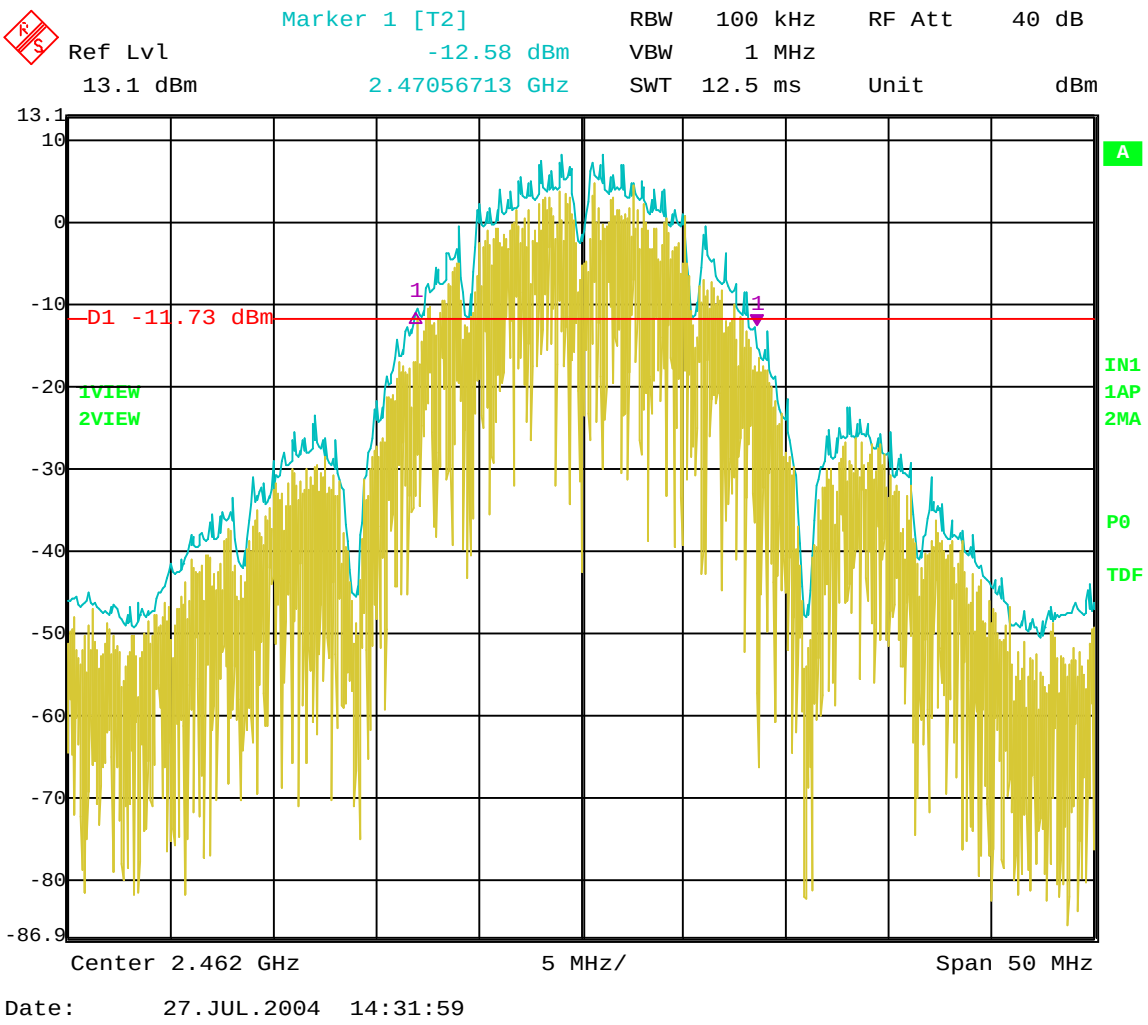
DATA SHEETS



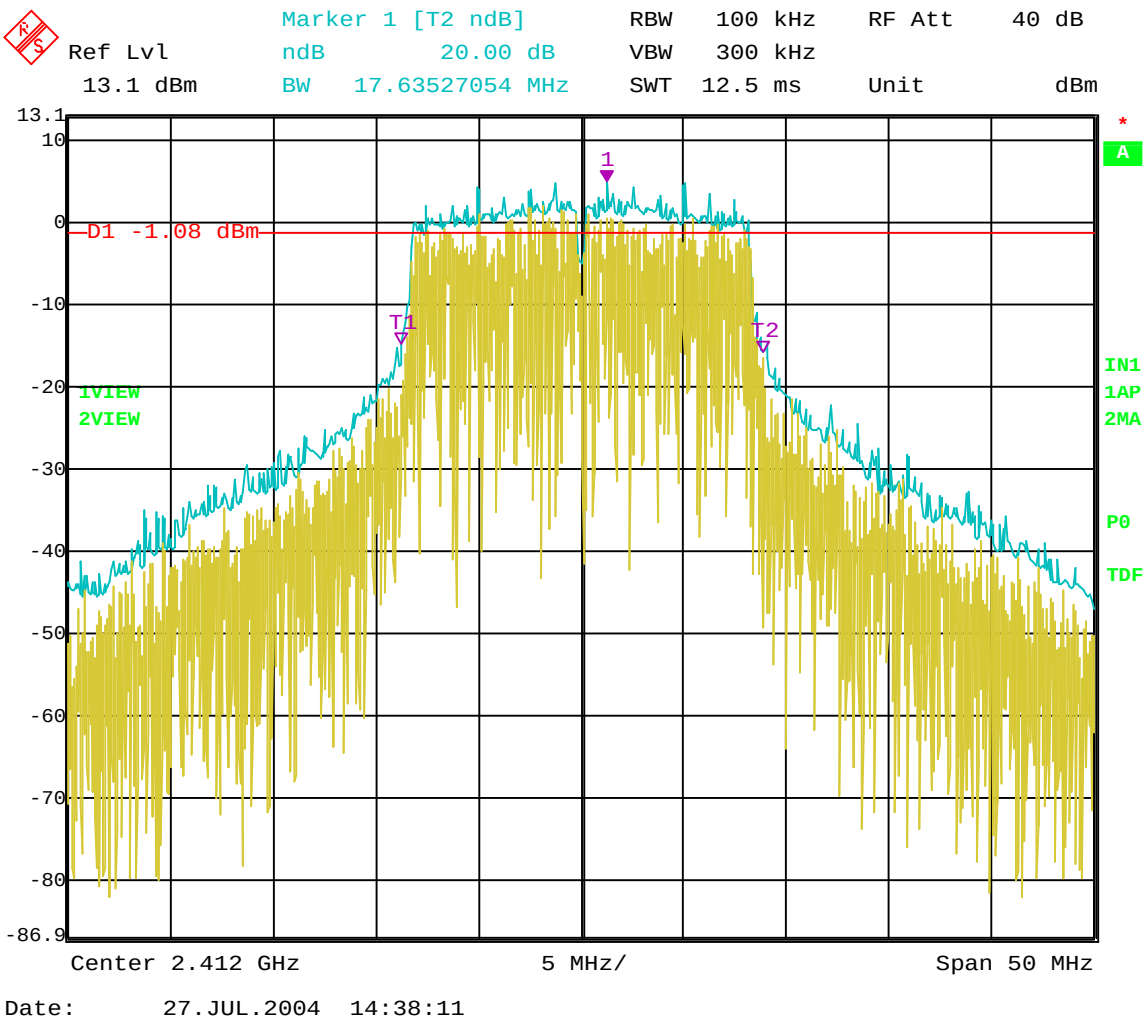
Bandwidth 20 dB – Channel 1 – 802.11 b Mode



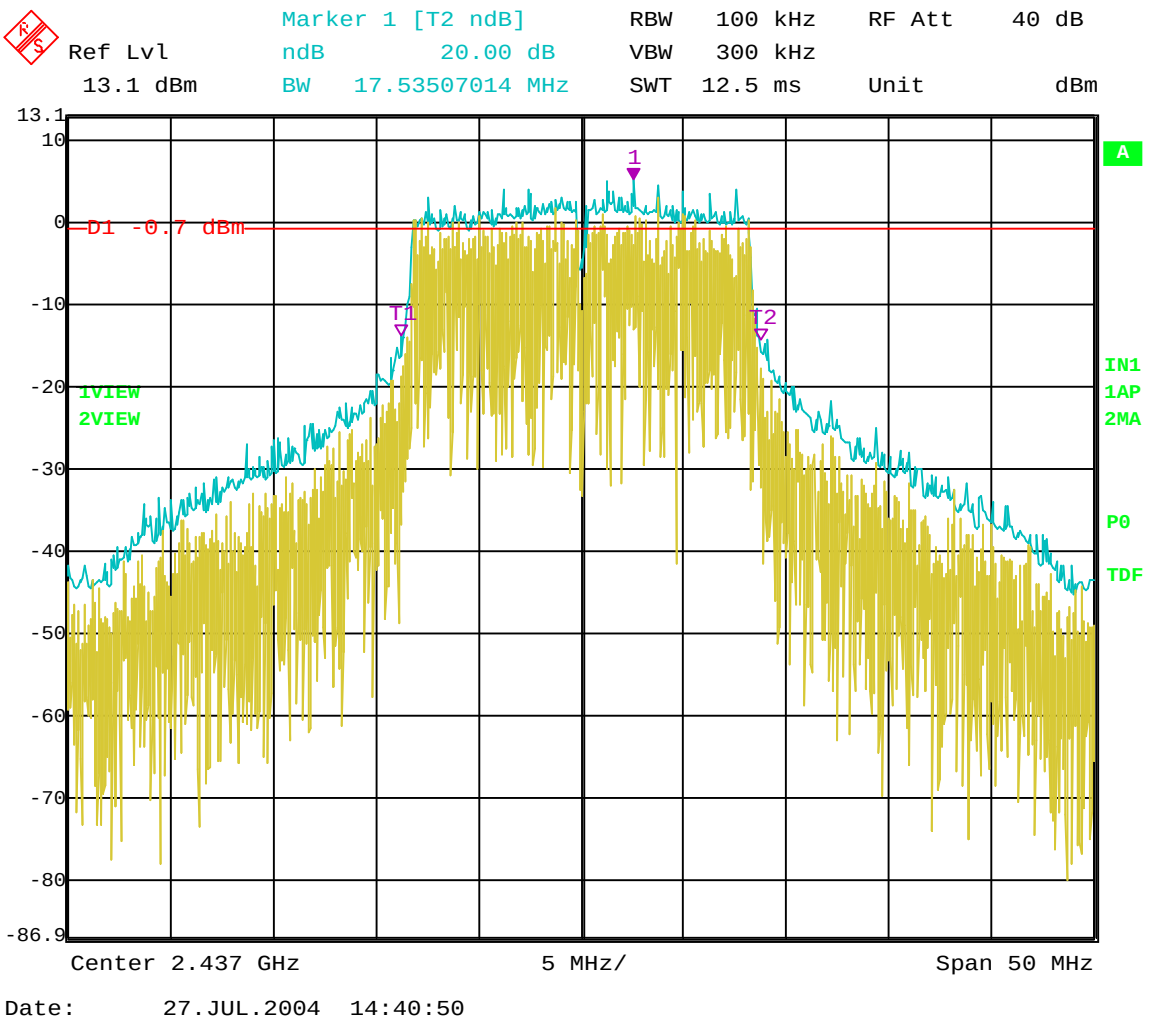
Bandwidth 20 dB – Channel 6 – 802.11 b Mode



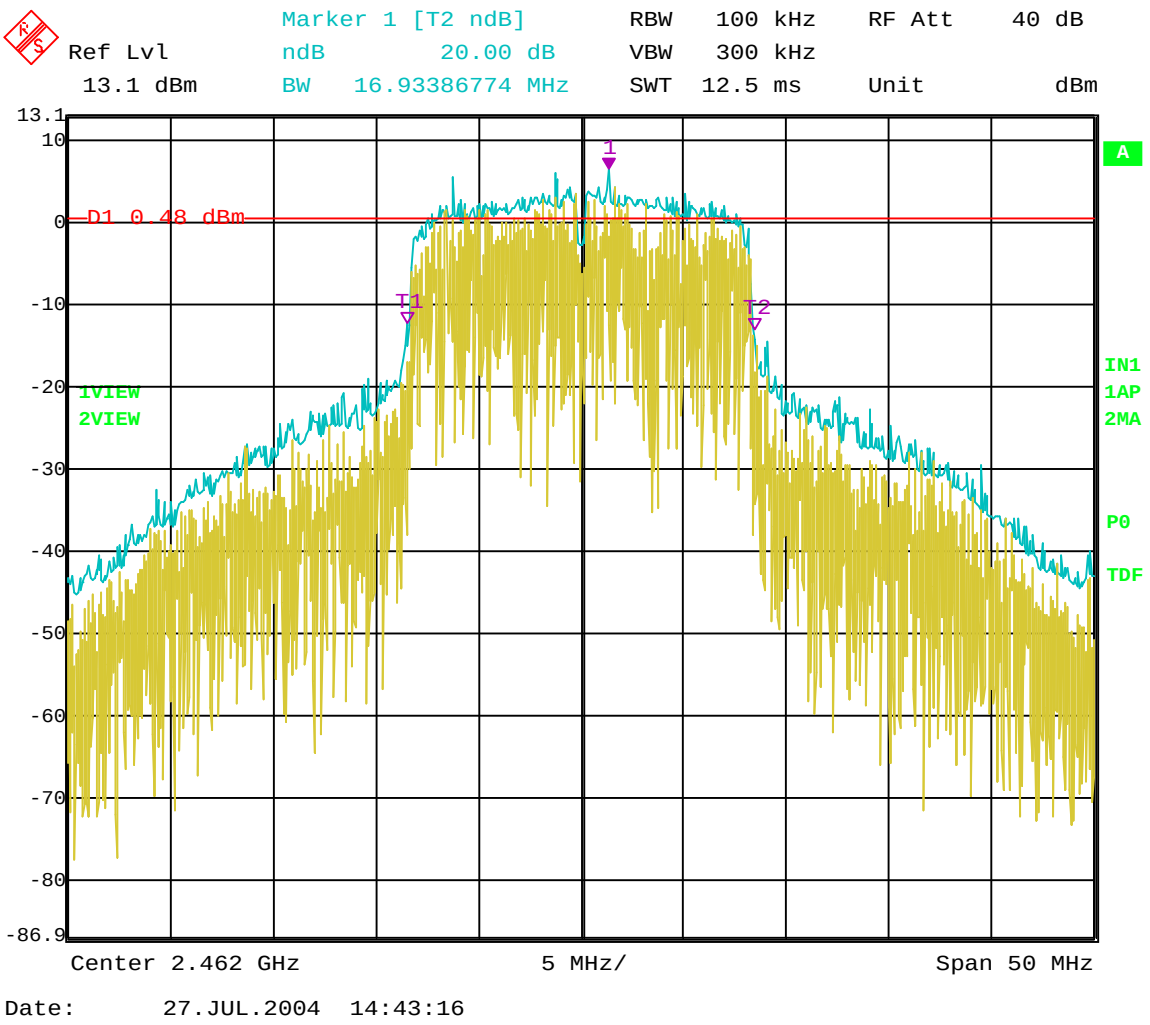
Bandwidth 20 dB – Channel 11 – 802.11 b Mode



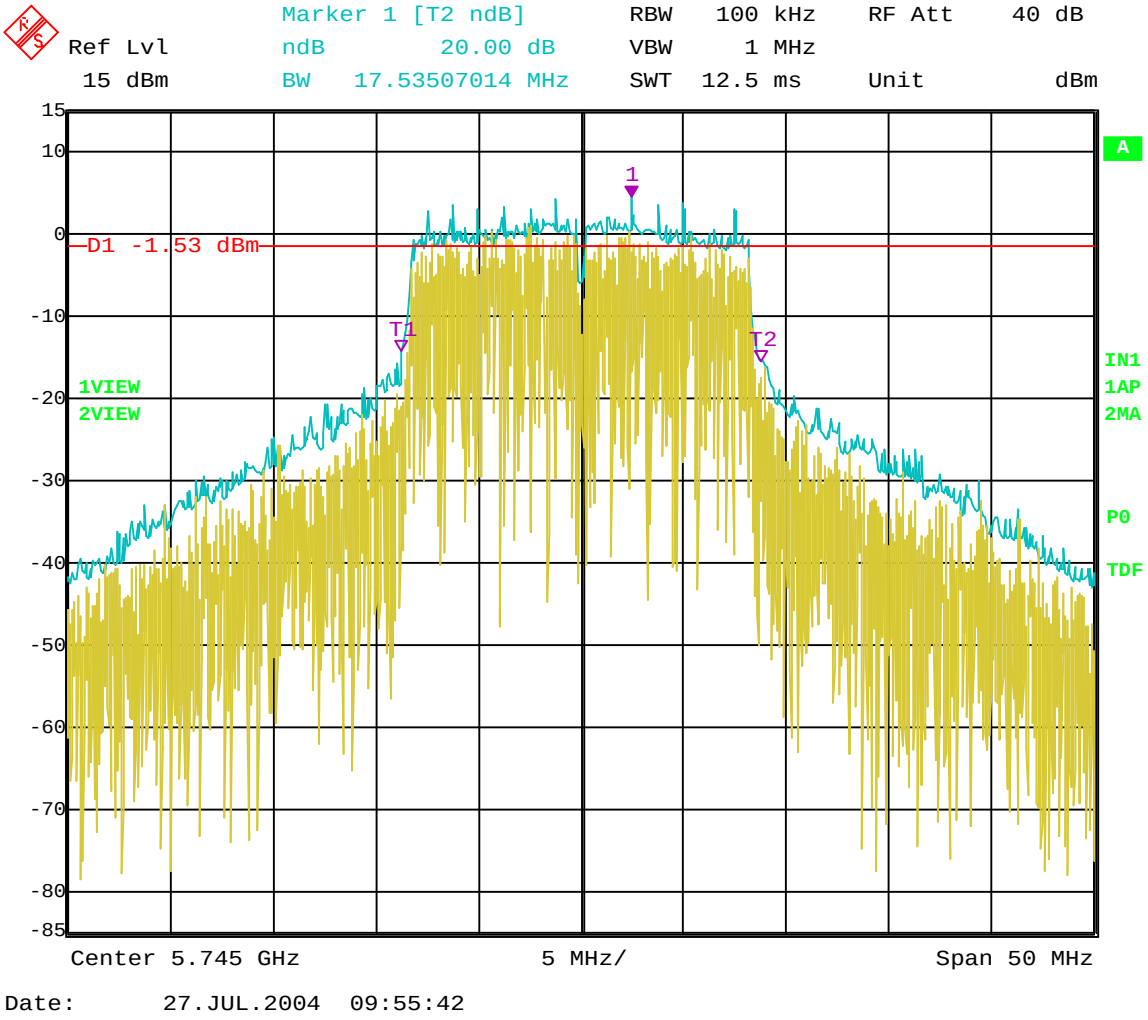
Bandwidth 20 dB – Channel 1 – 802.11 g Mode



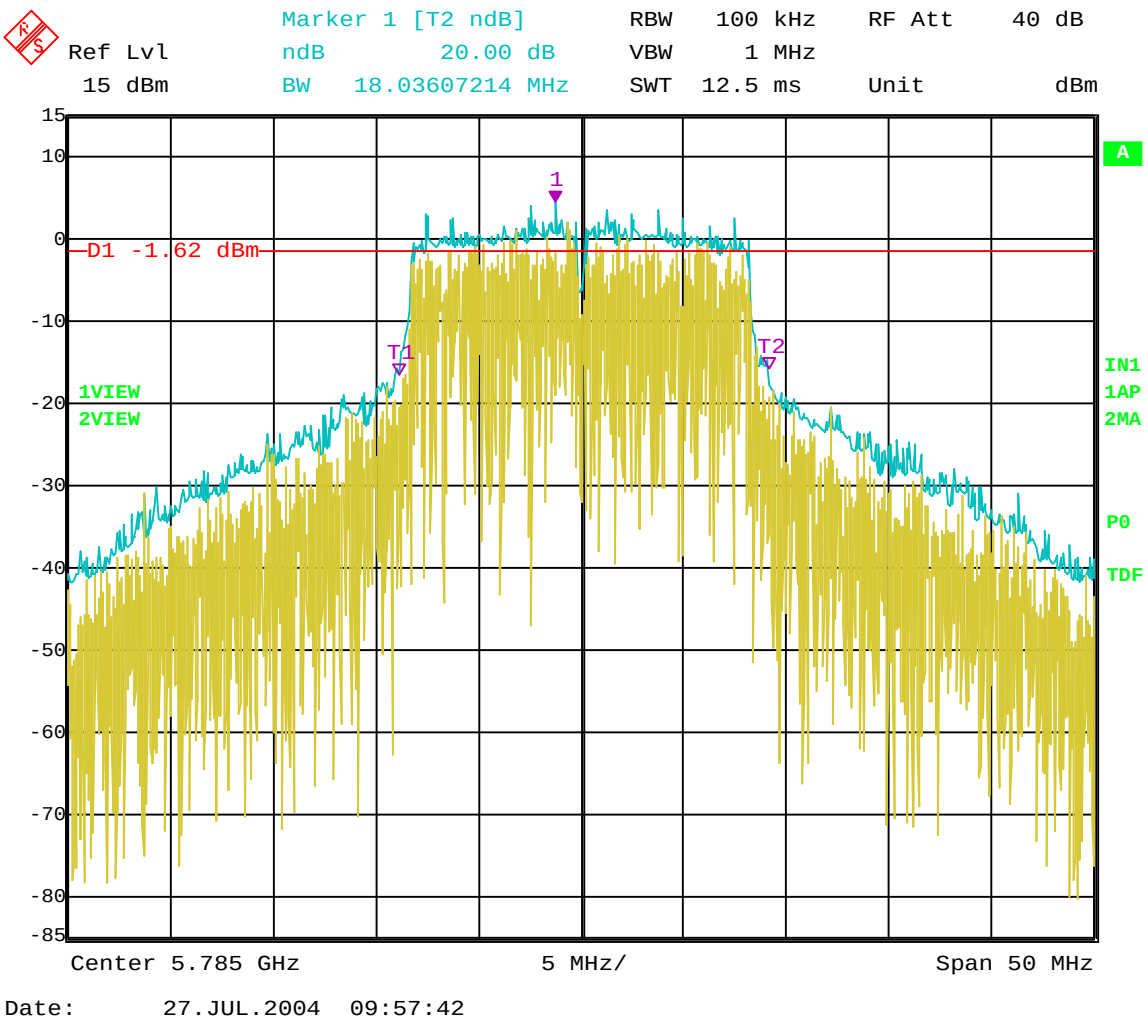
Bandwidth 20 dB – Channel 6 – 802.11 g Mode



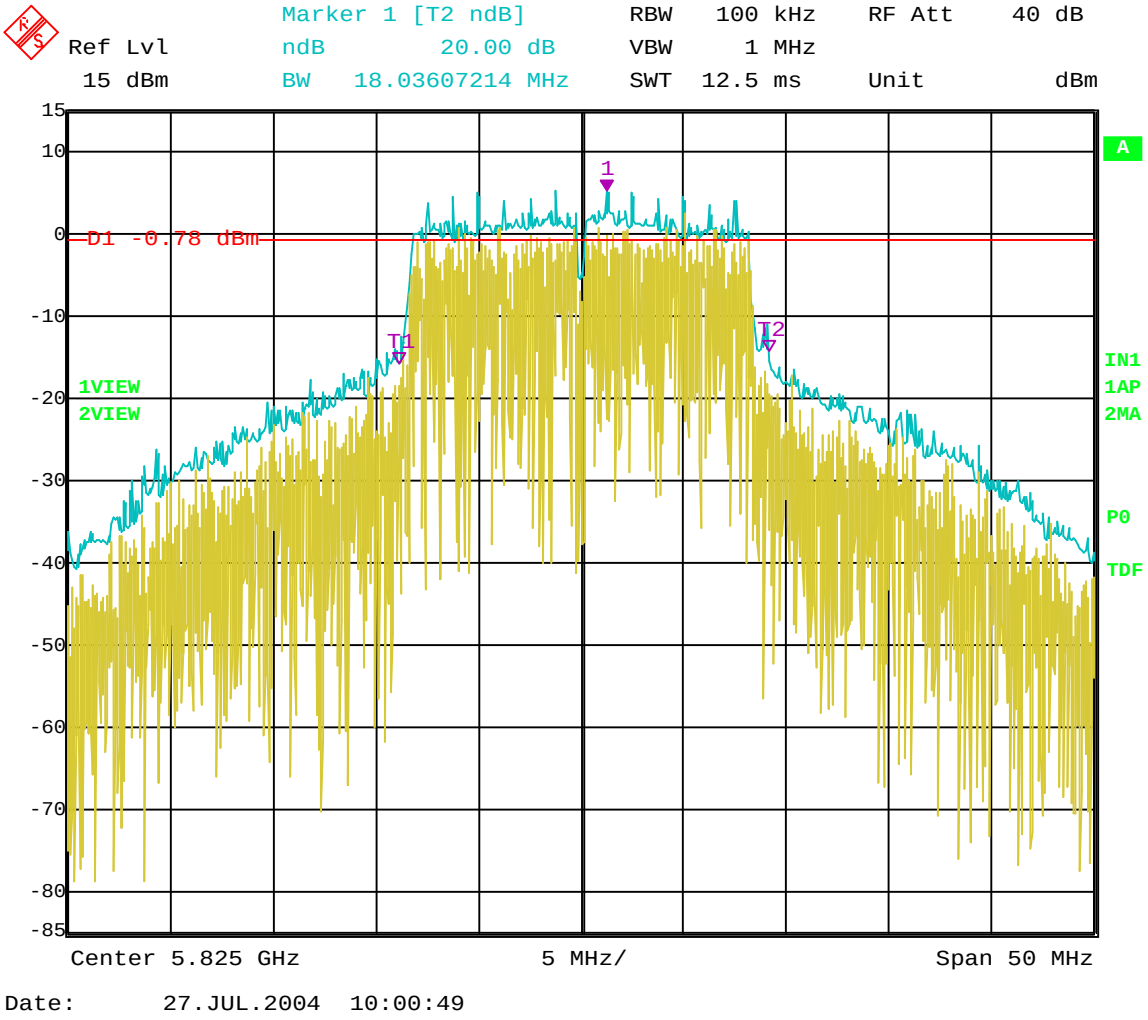
Bandwidth 20 dB – Channel 11 – 802.11 g Mode



Bandwidth 20 dB – Channel 149 – 802.11 a Mode



Bandwidth 20 dB – Channel 157 – 802.11 a Mode



Bandwidth 20 dB – Channel 165 – 802.11 a Mode

PEAK POWER OUTPUT

DATA SHEETS

PEAK OUTPUT POWER

Intel Corporation

Intel Mini PCI Type 802.11 ABG Wireless LAN Adapter

MODEL: WM3B2915ABG

For use in the HP Agency Series #: SI1

802.11 b Mode (Worst Case Rate is 1 Mbps)

CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	16.5	19.37
6 (2437 MHz)	16.0	19.33
11 (2462 MHz)	16.0	19.28

802.11 g Mode (Worst Case Rate is 6 Mbps)

CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	19.5	24.25
6 (2437 MHz)	19.0	24.17
11 (2462 MHz)	20.0	24.11

PEAK OUTPUT POWER

Intel Corporation

Intel Mini PCI Type 802.11 ABG Wireless LAN Adapter

MODEL: WM3B2915ABG

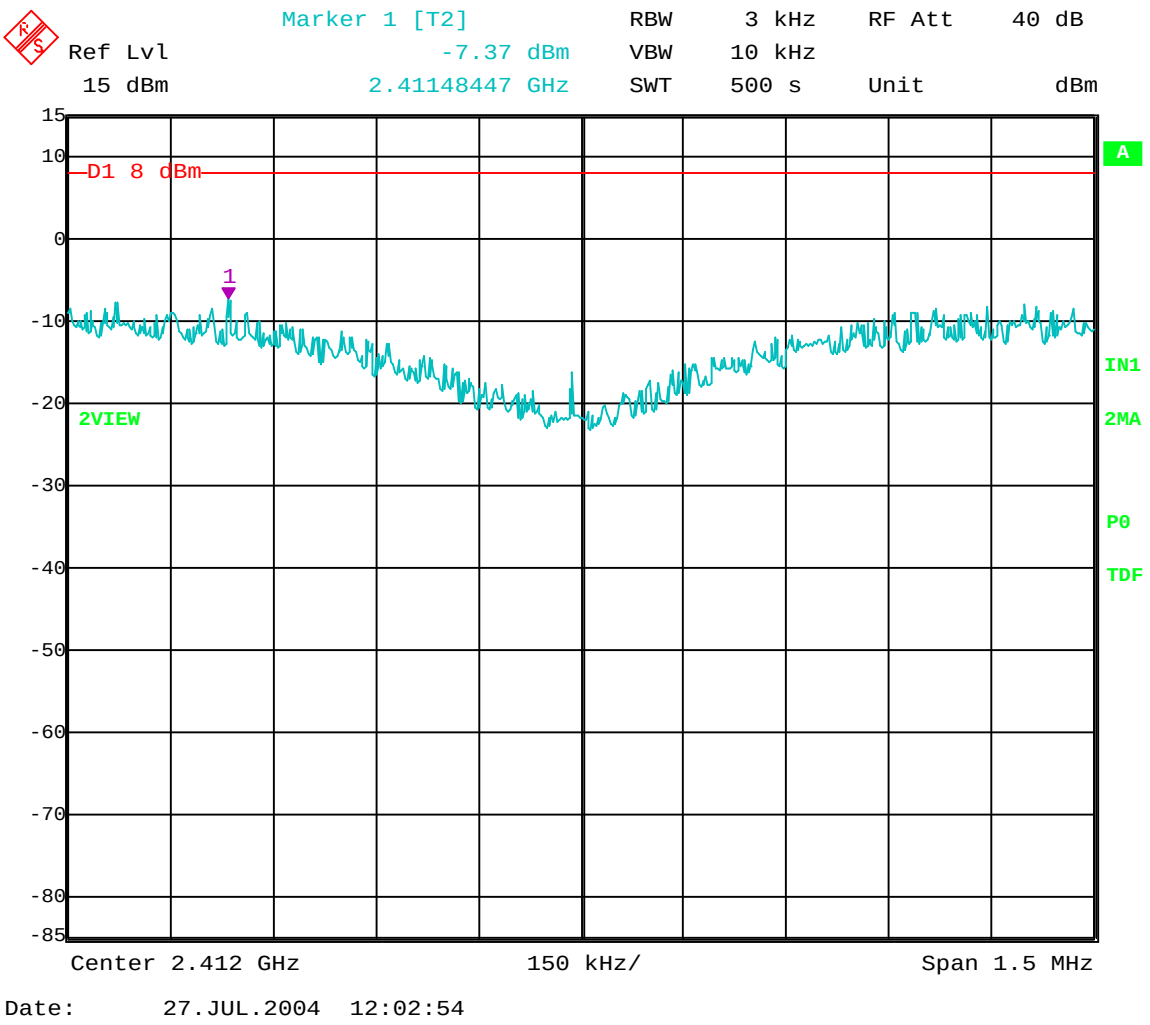
For use in the HP Agency Series #: SI1

802.11 a Mode (Worst Case Rate is 6 Mbps)

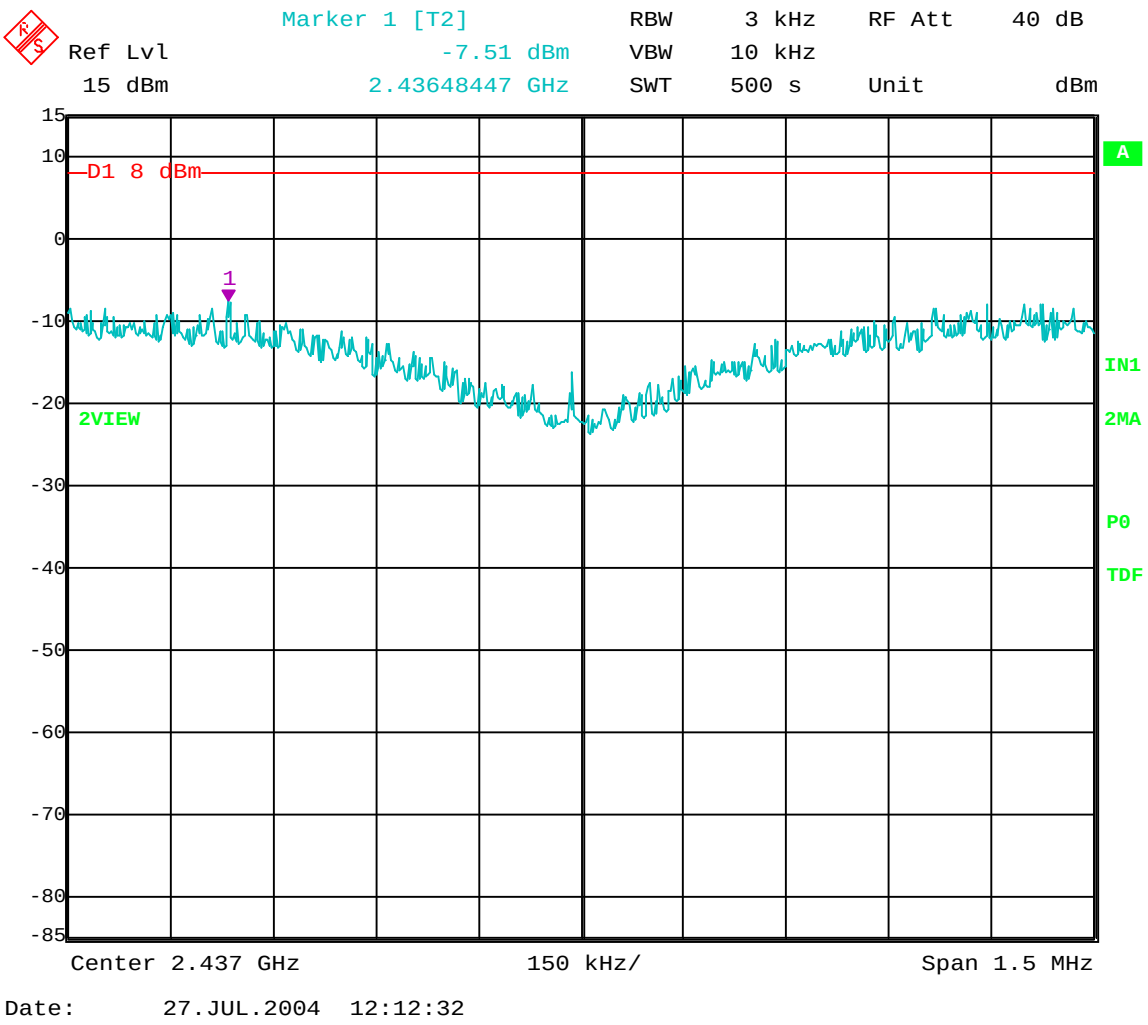
CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
149 (5745 MHz)	17.0	21.74
157 (5785 MHz)	17.0	21.79
165 (5825 MHz)	17.0	21.65

PEAK POWER SPECTRAL DENSITY

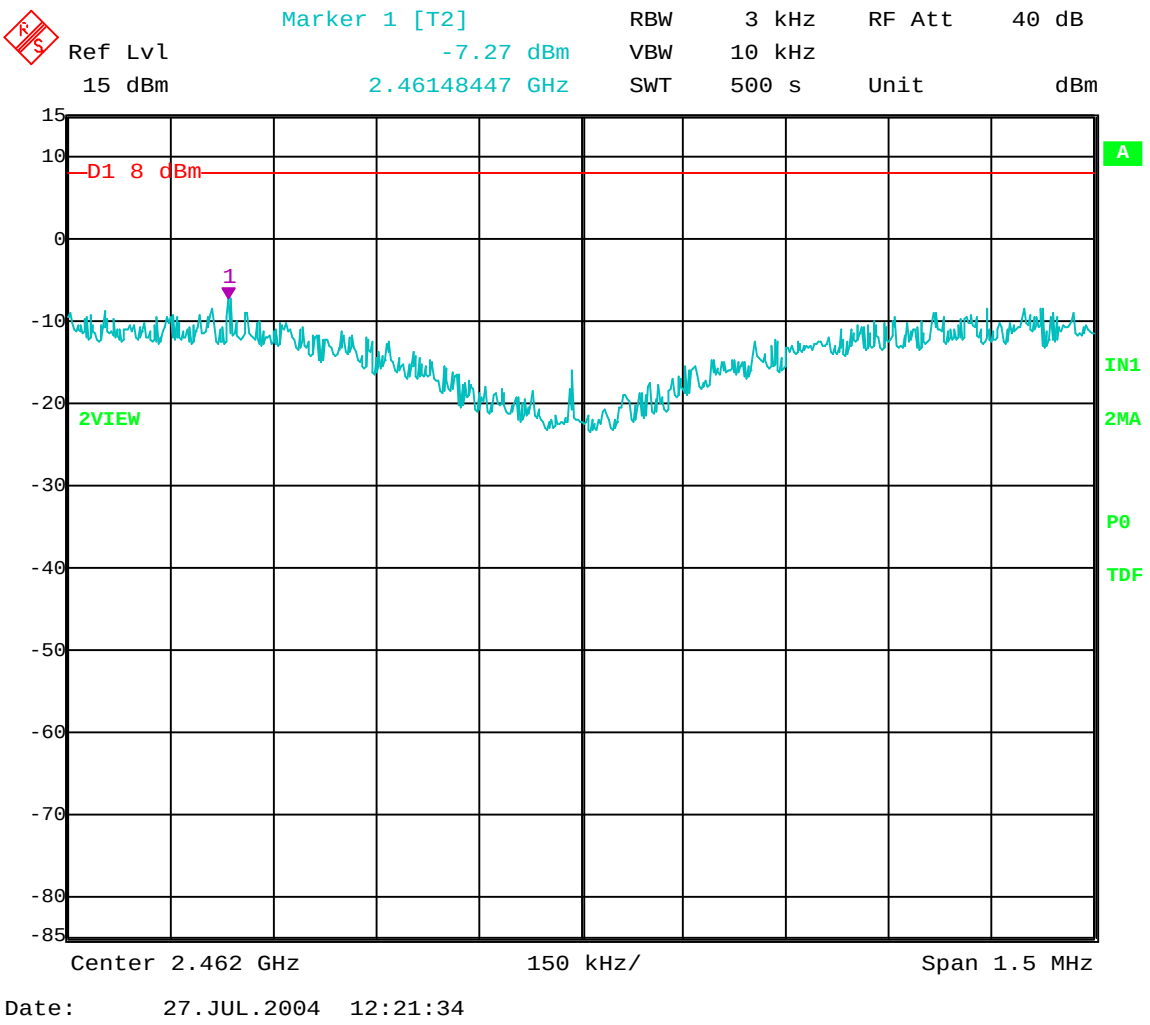
DATA SHEETS



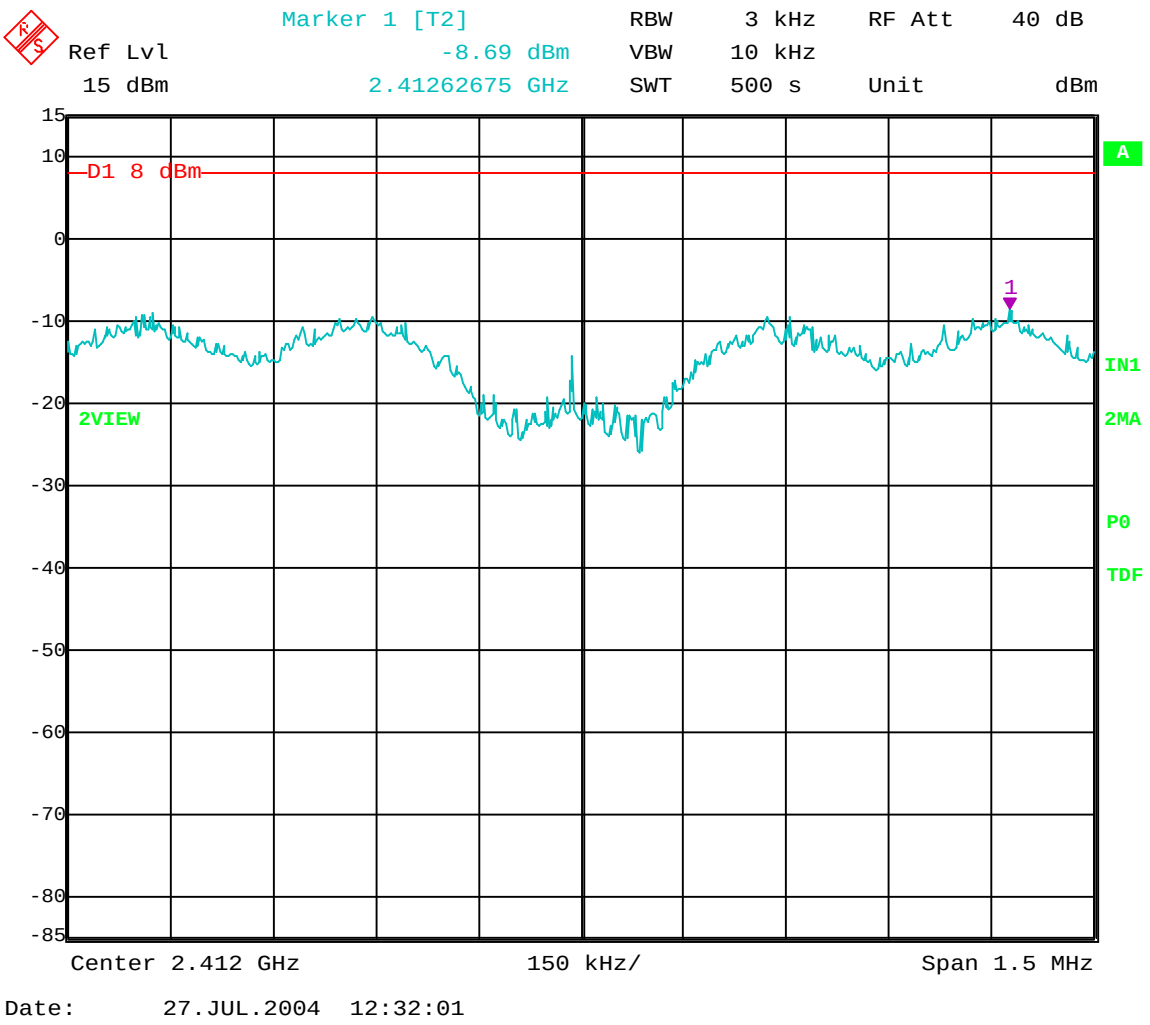
Peak Power Spectral Density – Channel 1 – 802.11 b Mode



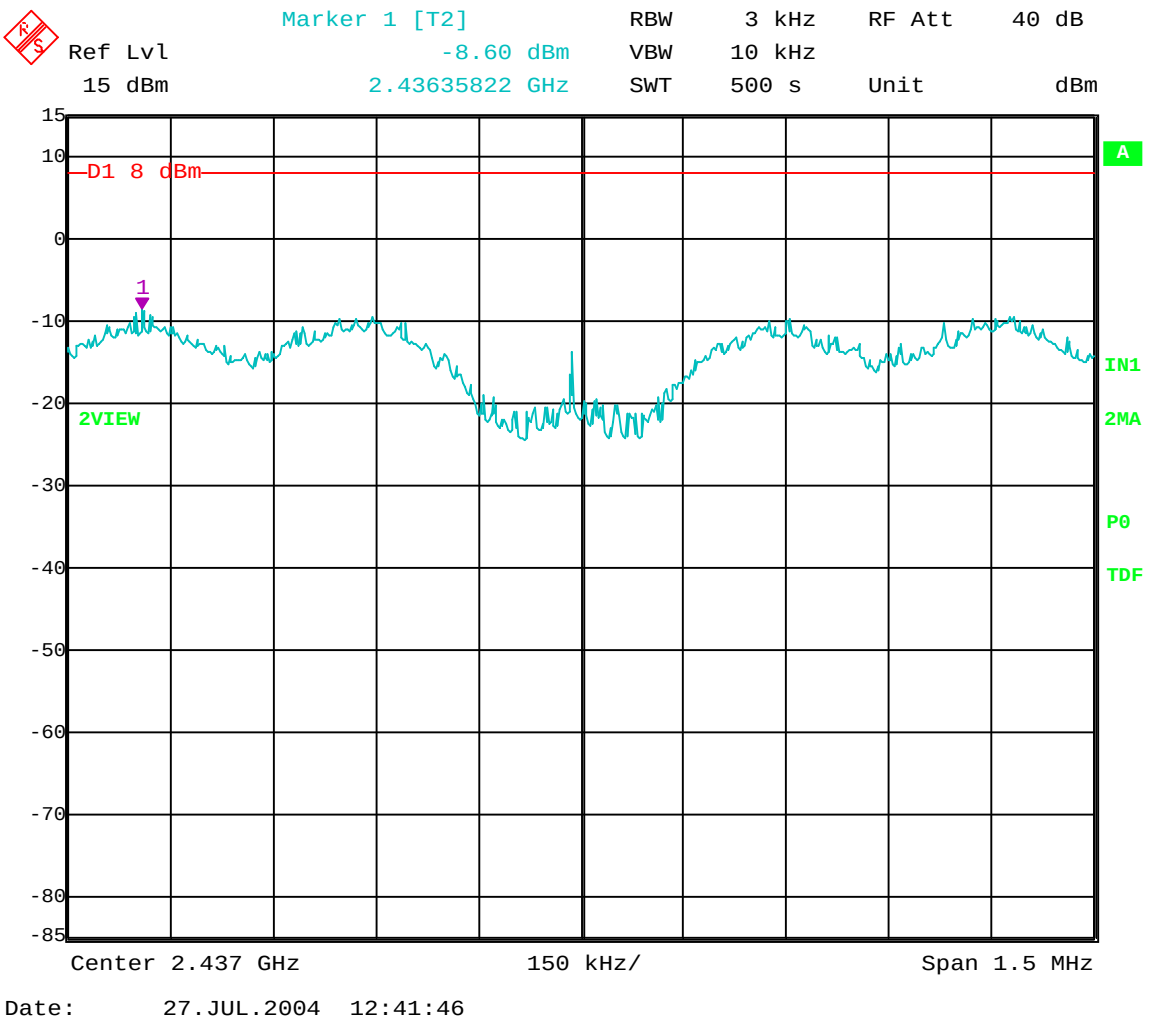
Peak Power Spectral Density – Channel 6 – 802.11 b Mode



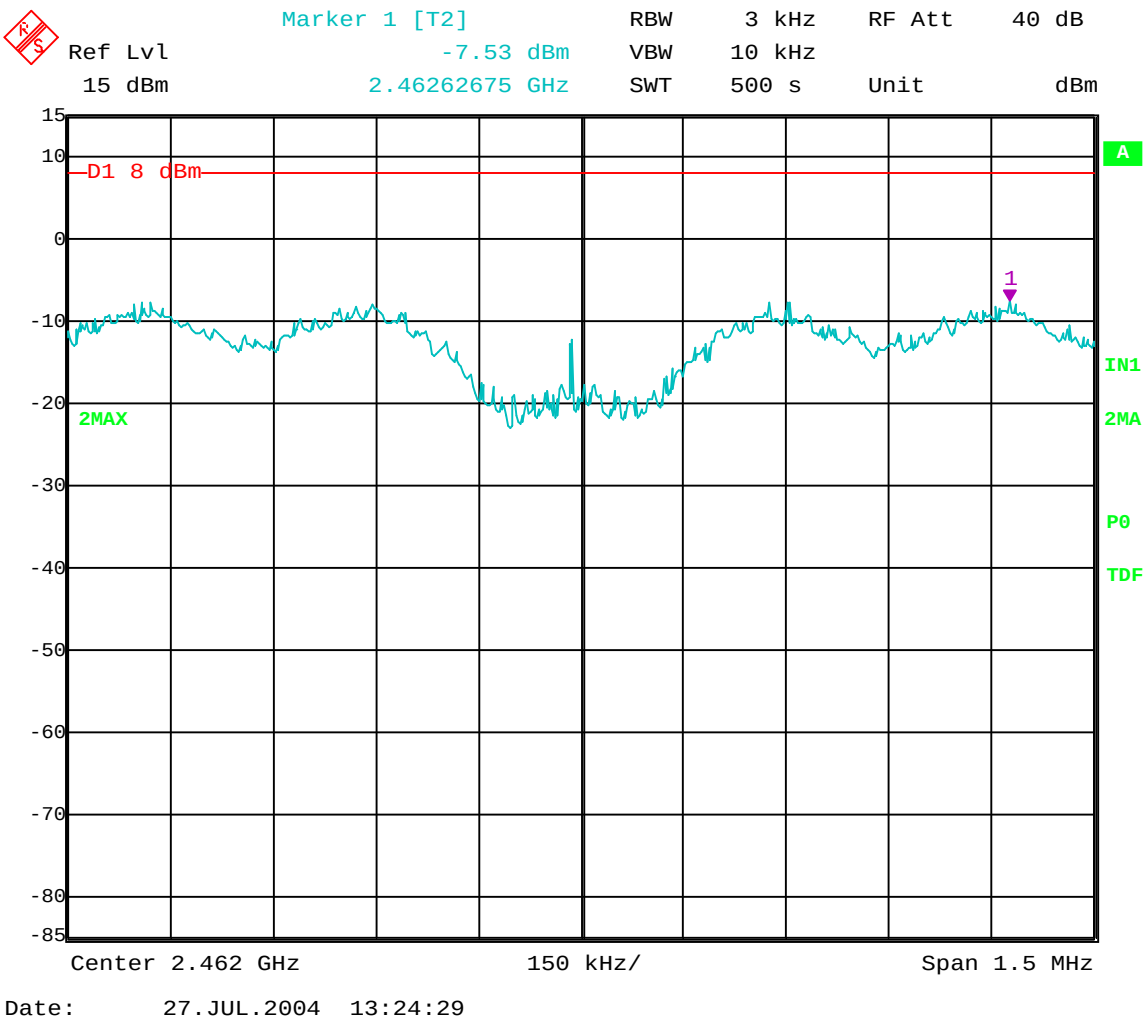
Peak Power Spectral Density – Channel 11 – 802.11 b Mode



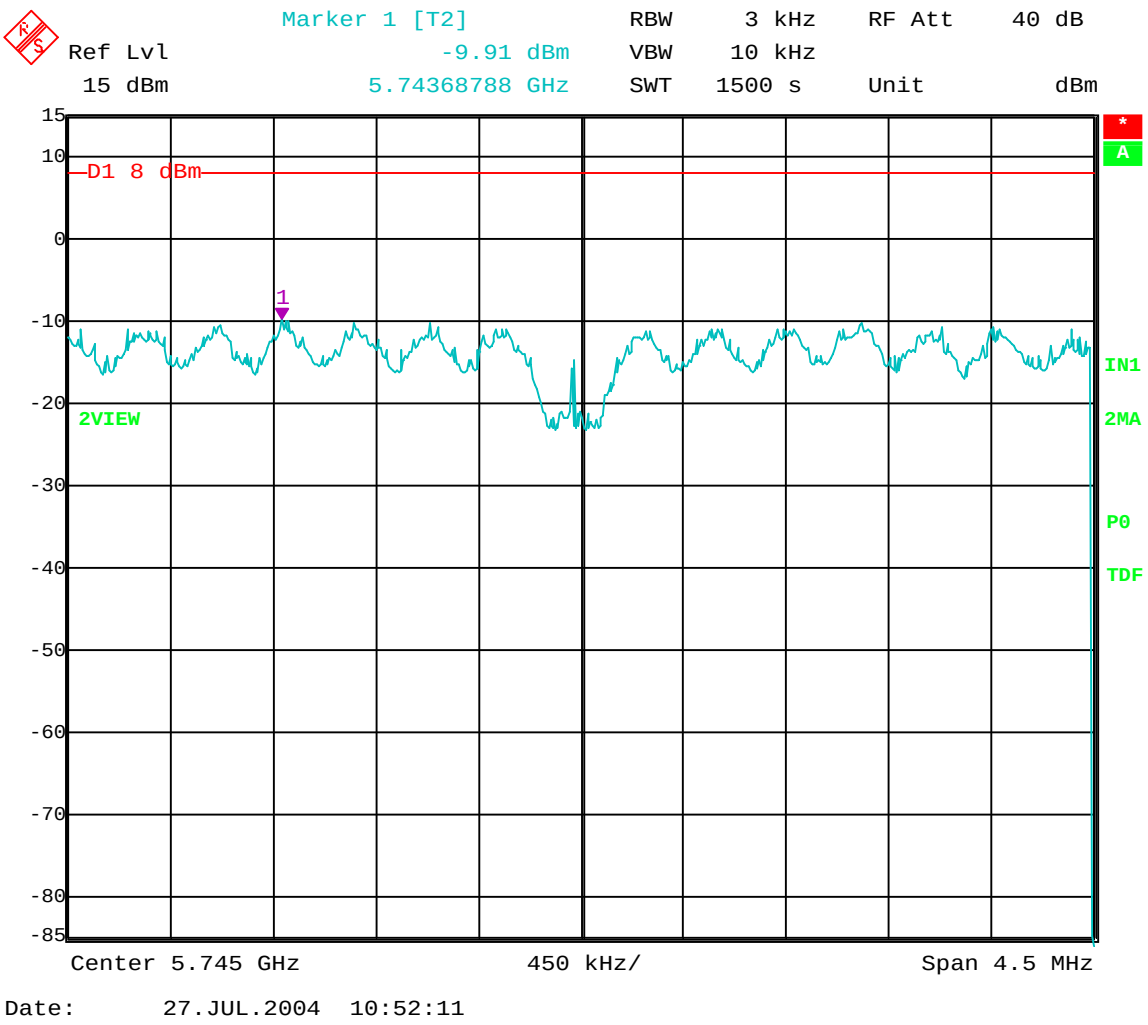
Peak Power Spectral Density – Channel 1 – 802.11 g Mode



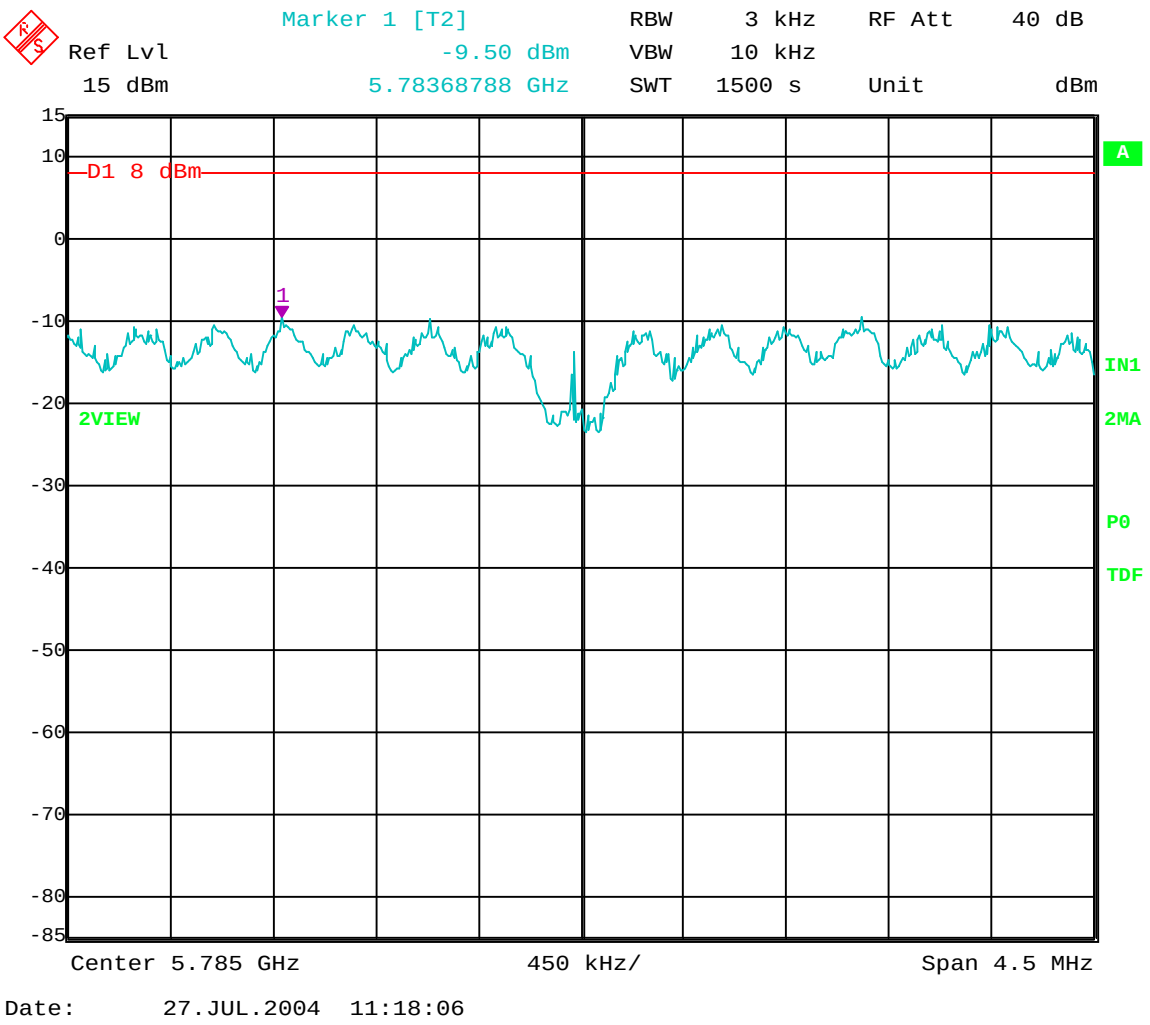
Peak Power Spectral Density – Channel 6 – 802.11 g Mode



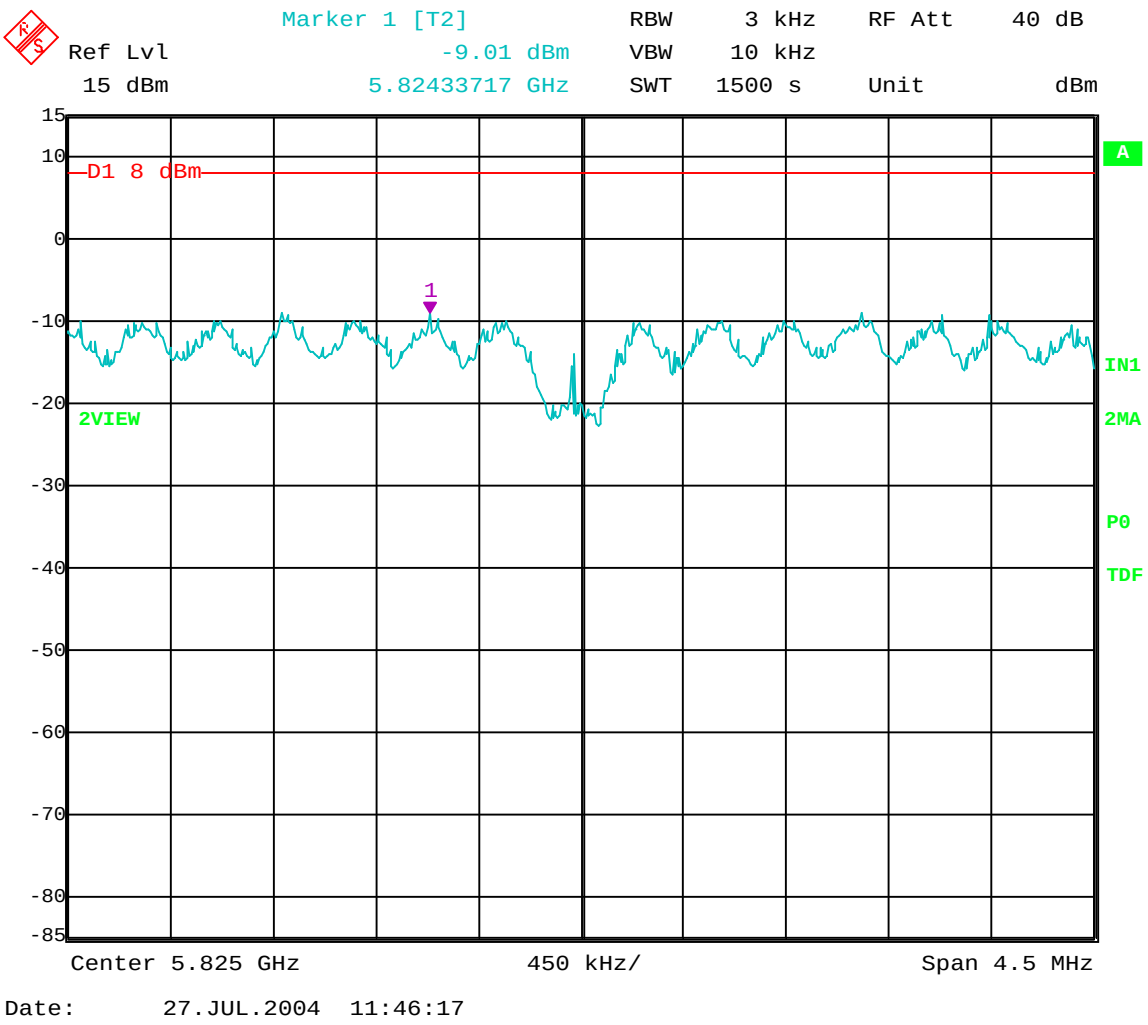
Peak Power Spectral Density – Channel 11 – 802.11 g Mode



Peak Power Spectral Density – Channel 149 – 802.11 a Mode



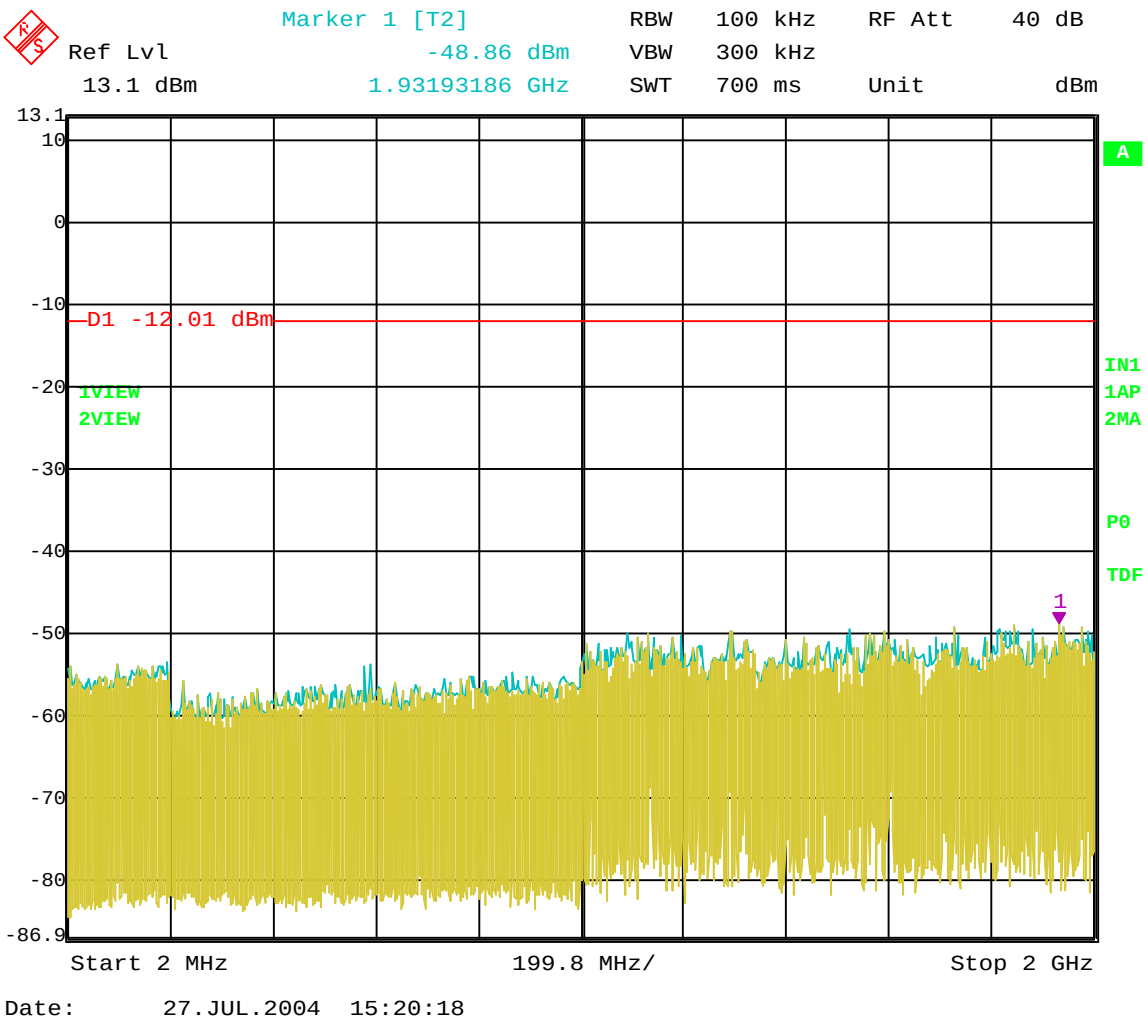
Peak Power Spectral Density – Channel 157 – 802.11 a Mode



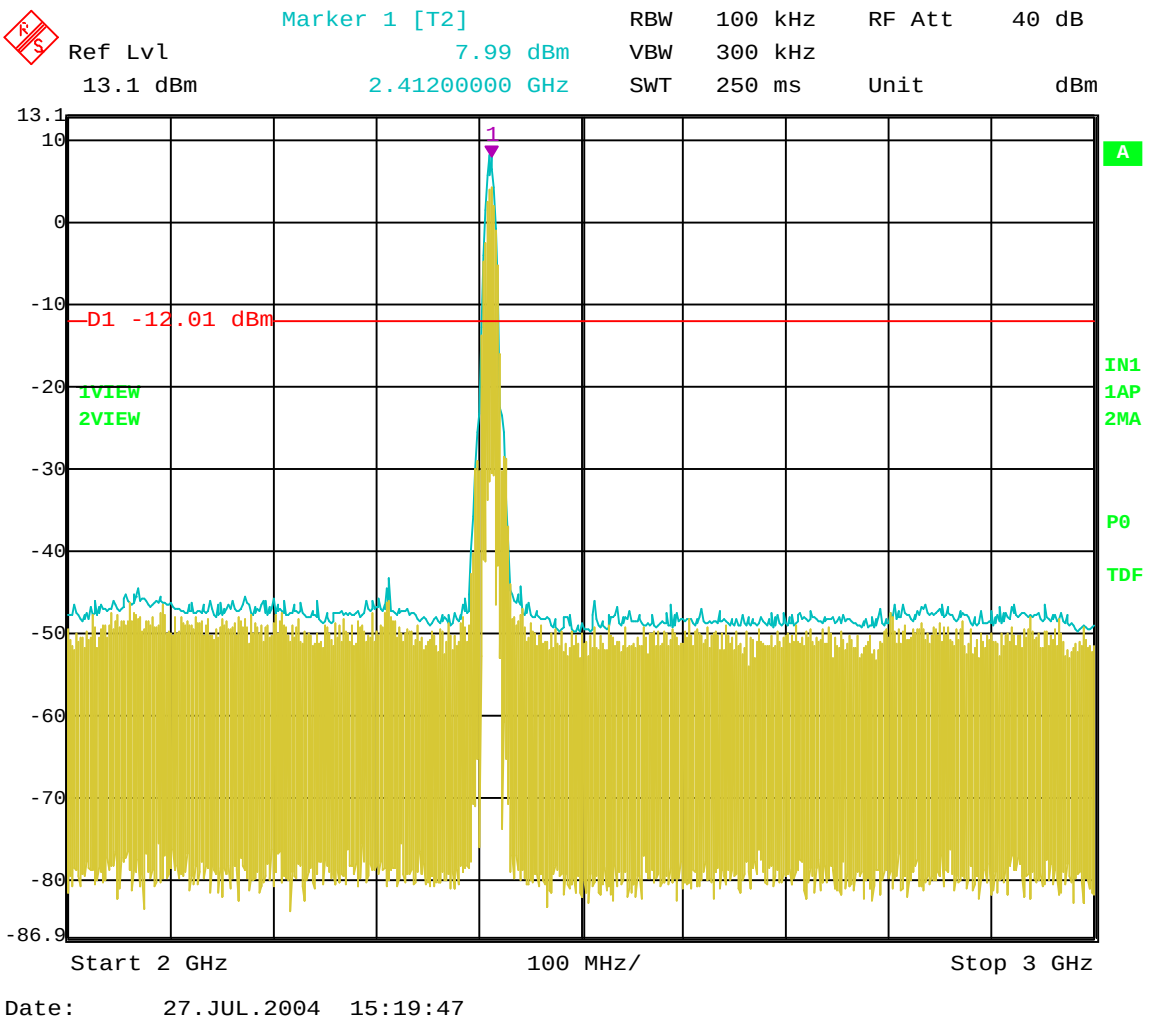
Peak Power Spectral Density – Channel 165 – 802.11 a Mode

RF ANTENNA CONDUCTED

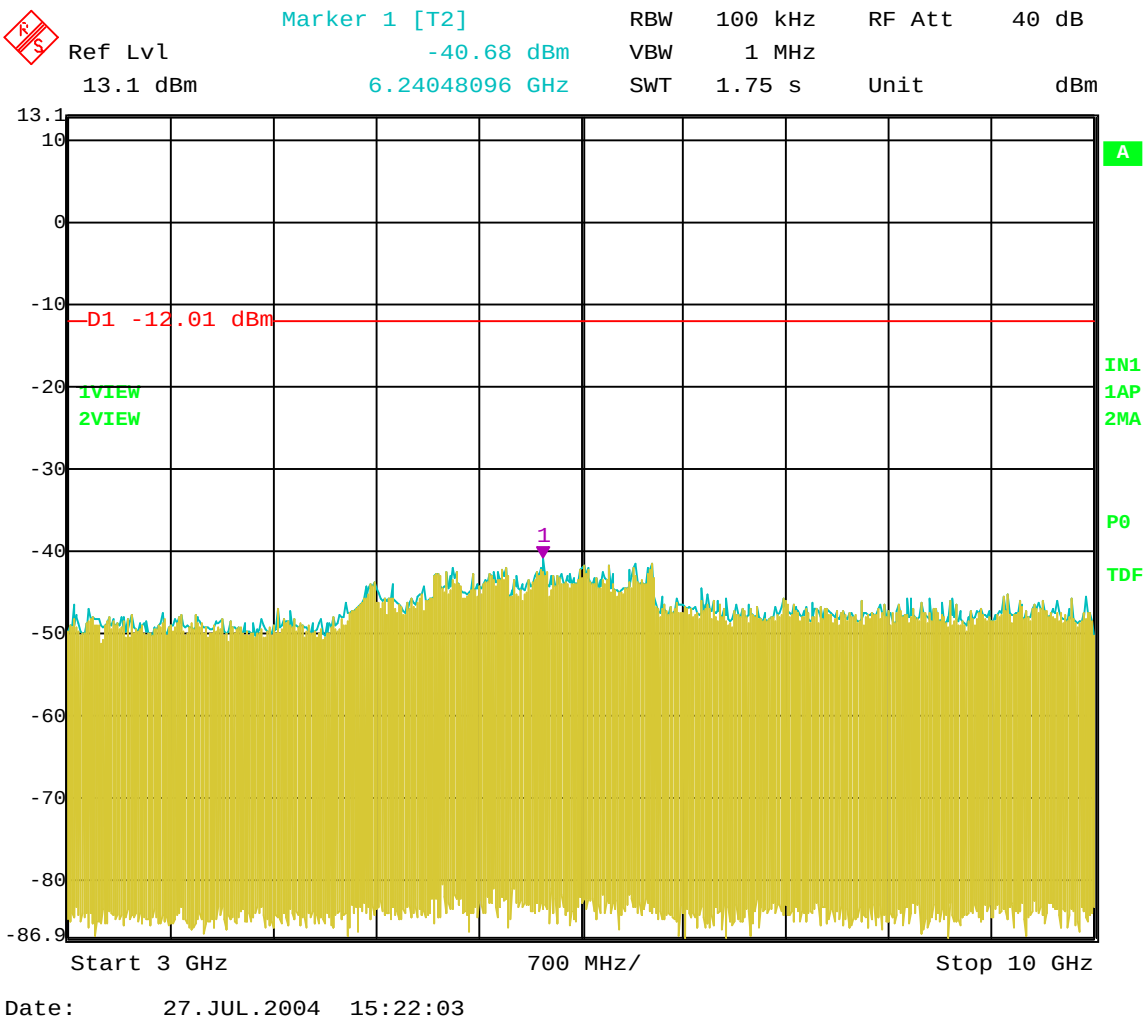
DATA SHEETS



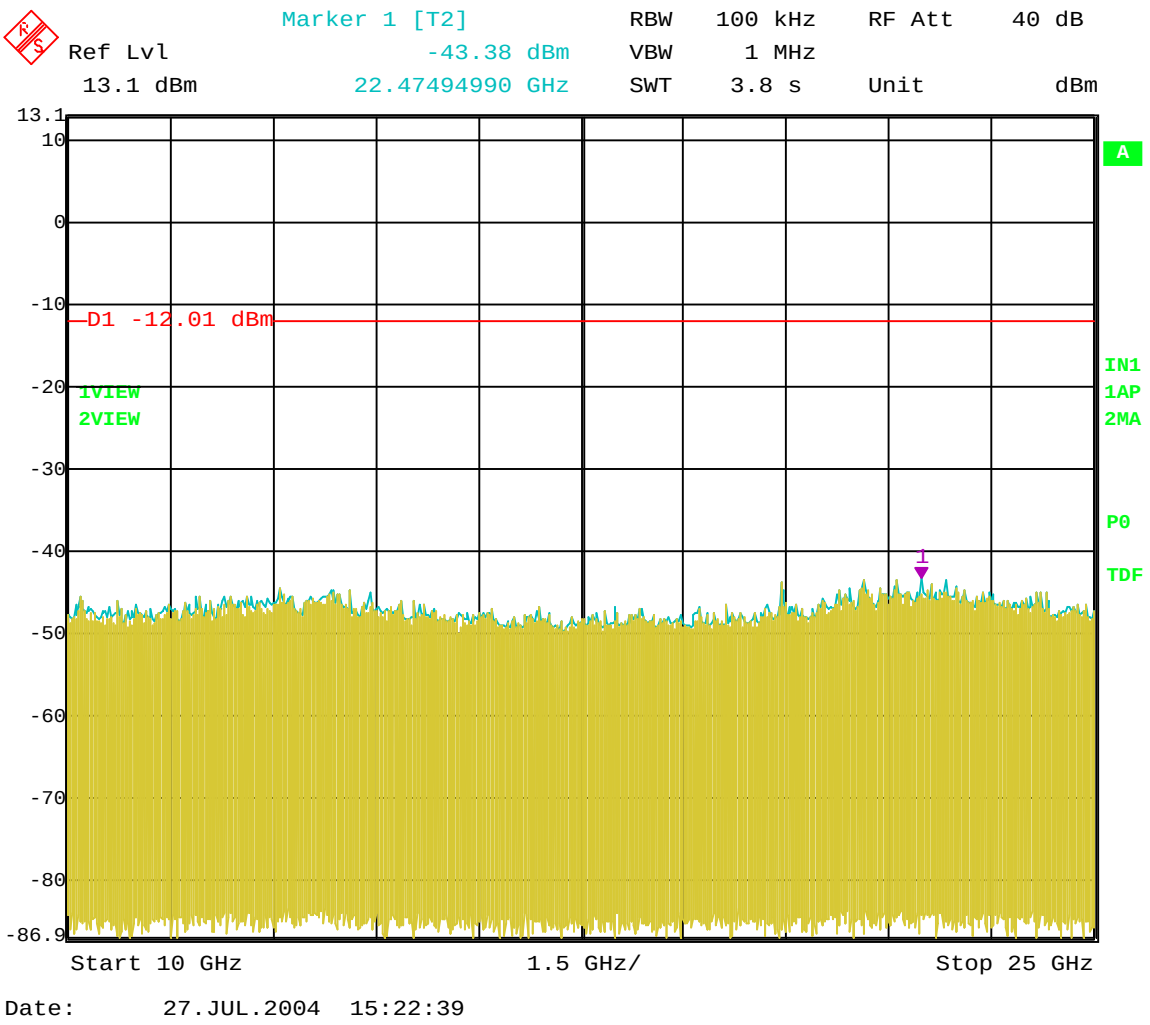
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – 2 MHz to 2 GHz



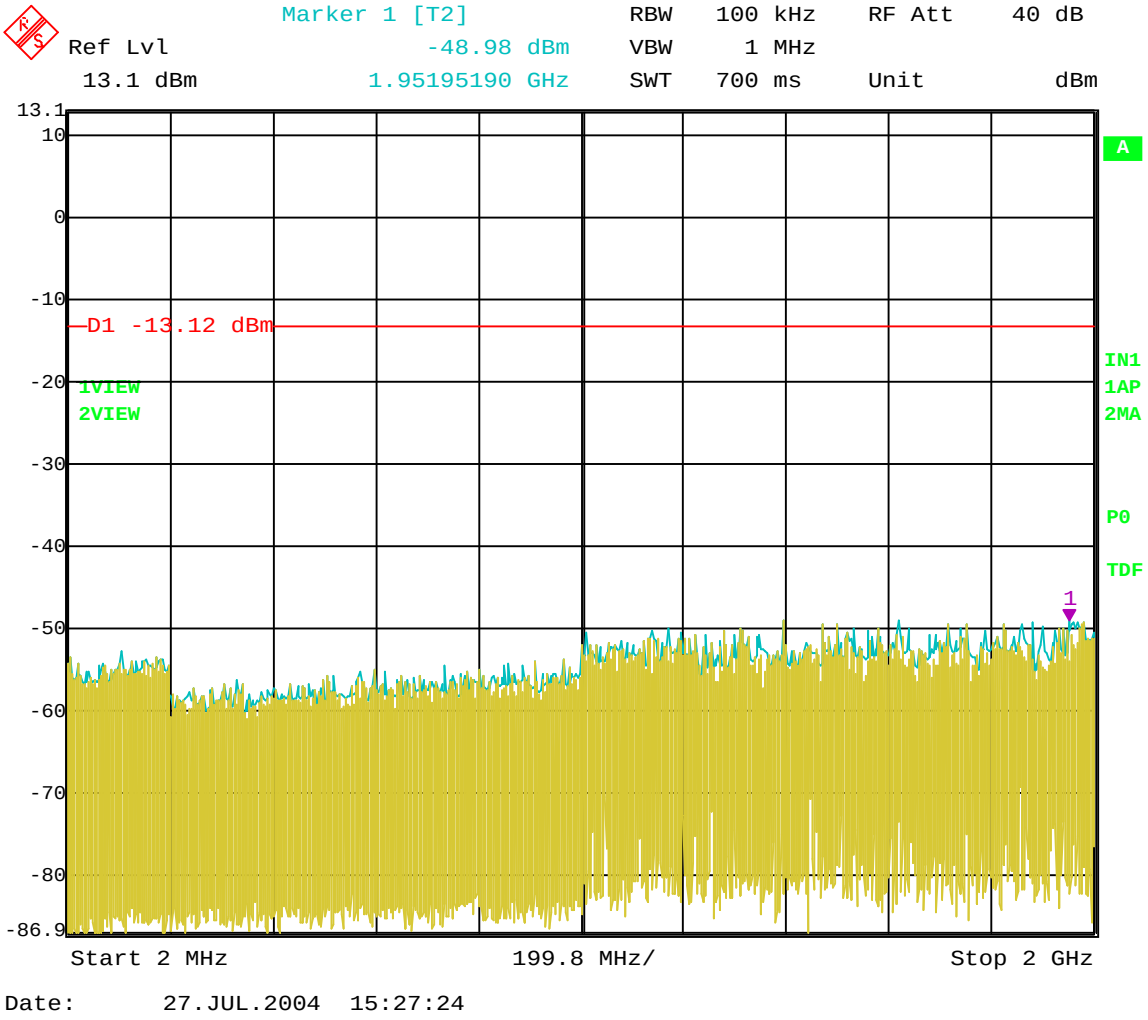
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – 2 GHz to 3 GHz



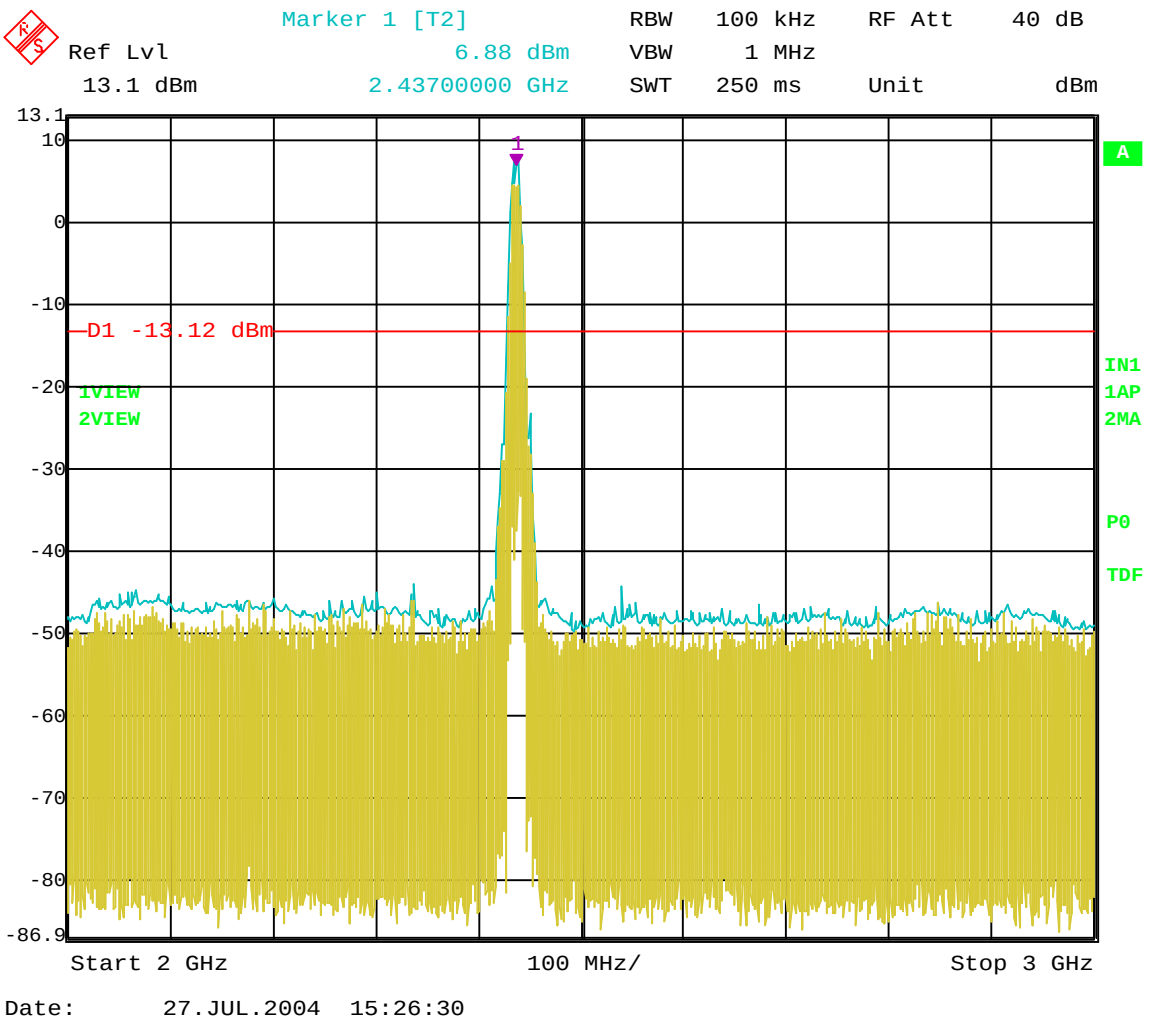
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – 3 GHz to 10 GHz



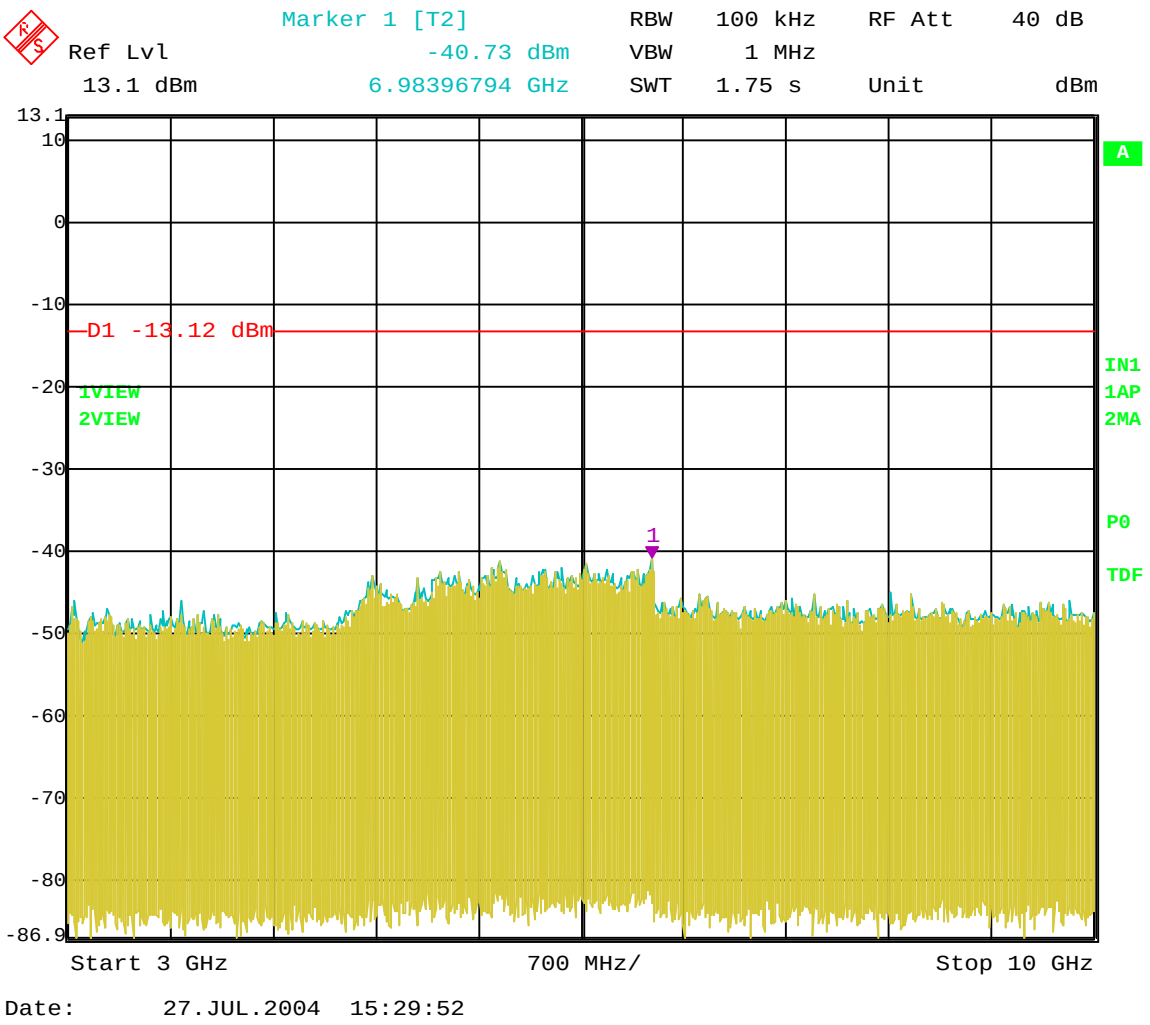
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – 10 GHz to 25 GHz



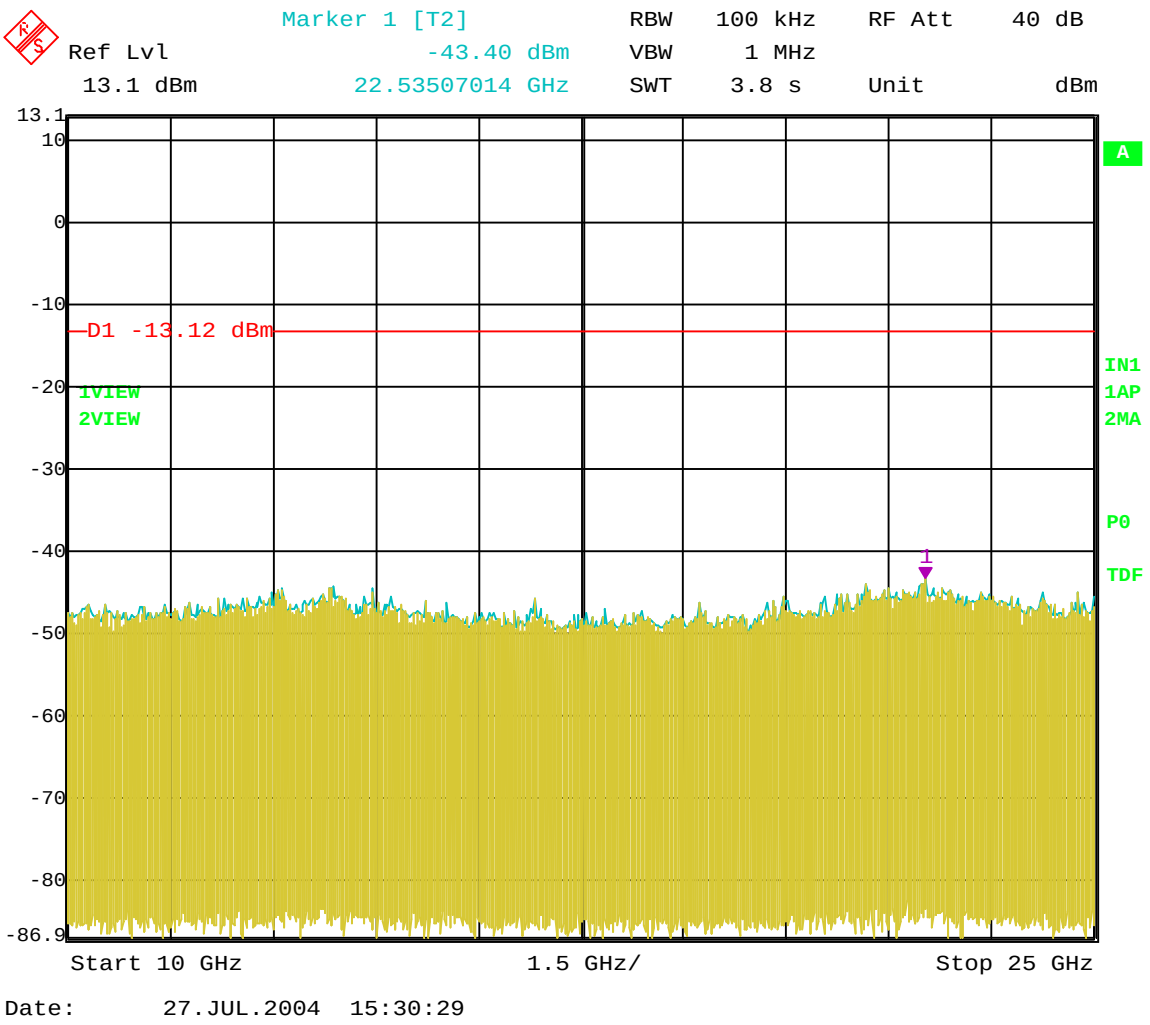
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – 2 MHz to 2 GHz



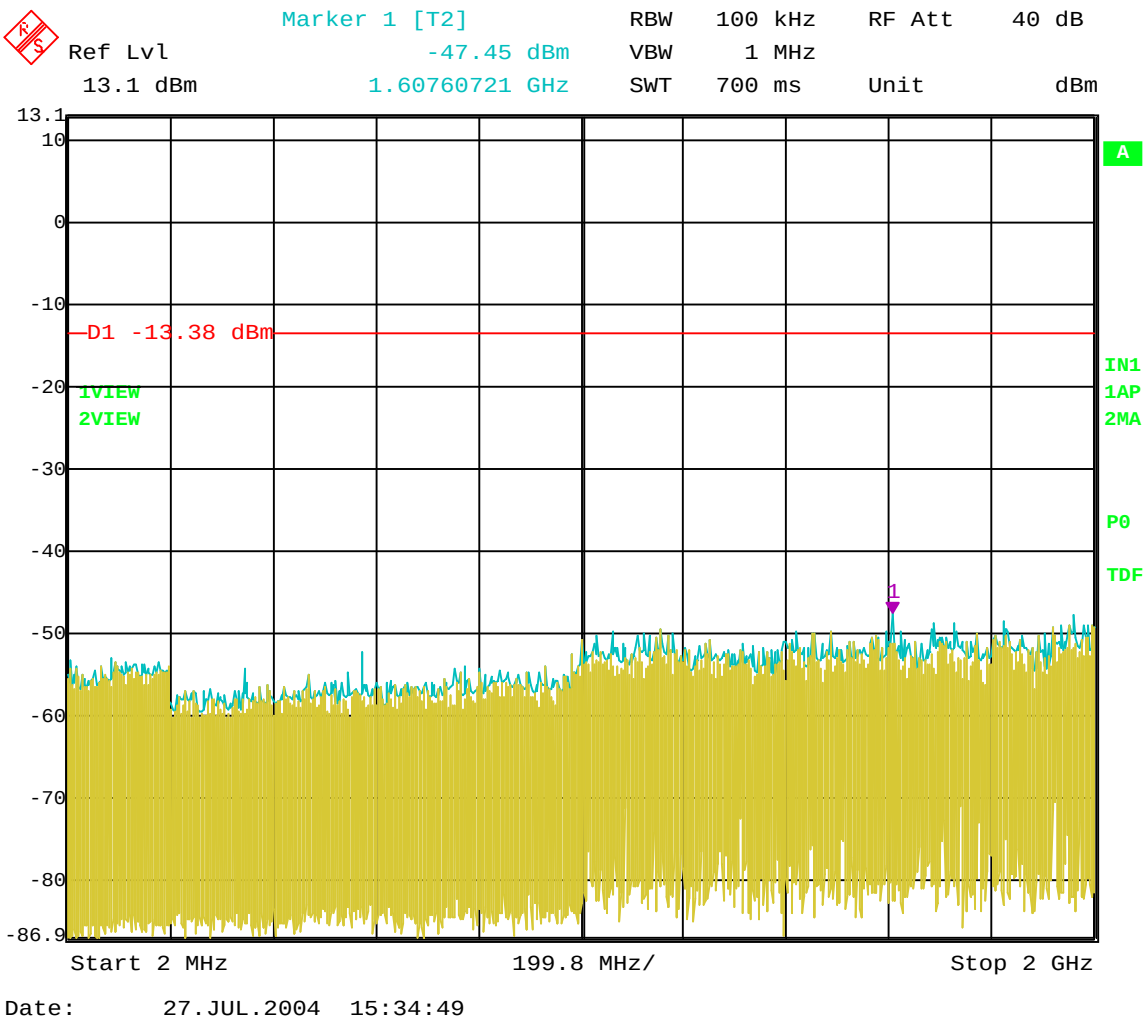
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – 2 GHz to 3 GHz



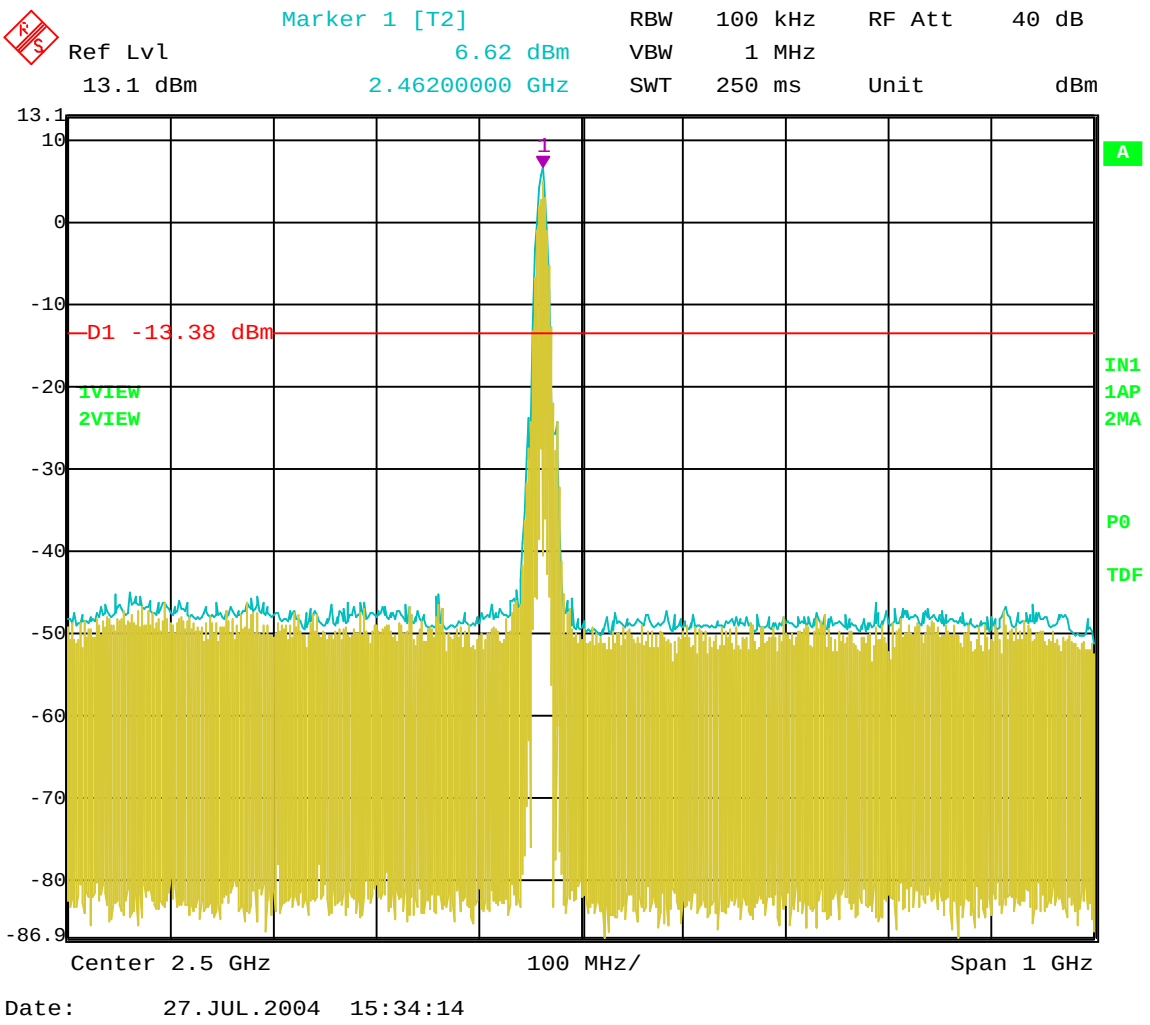
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – 3 GHz to 10 GHz



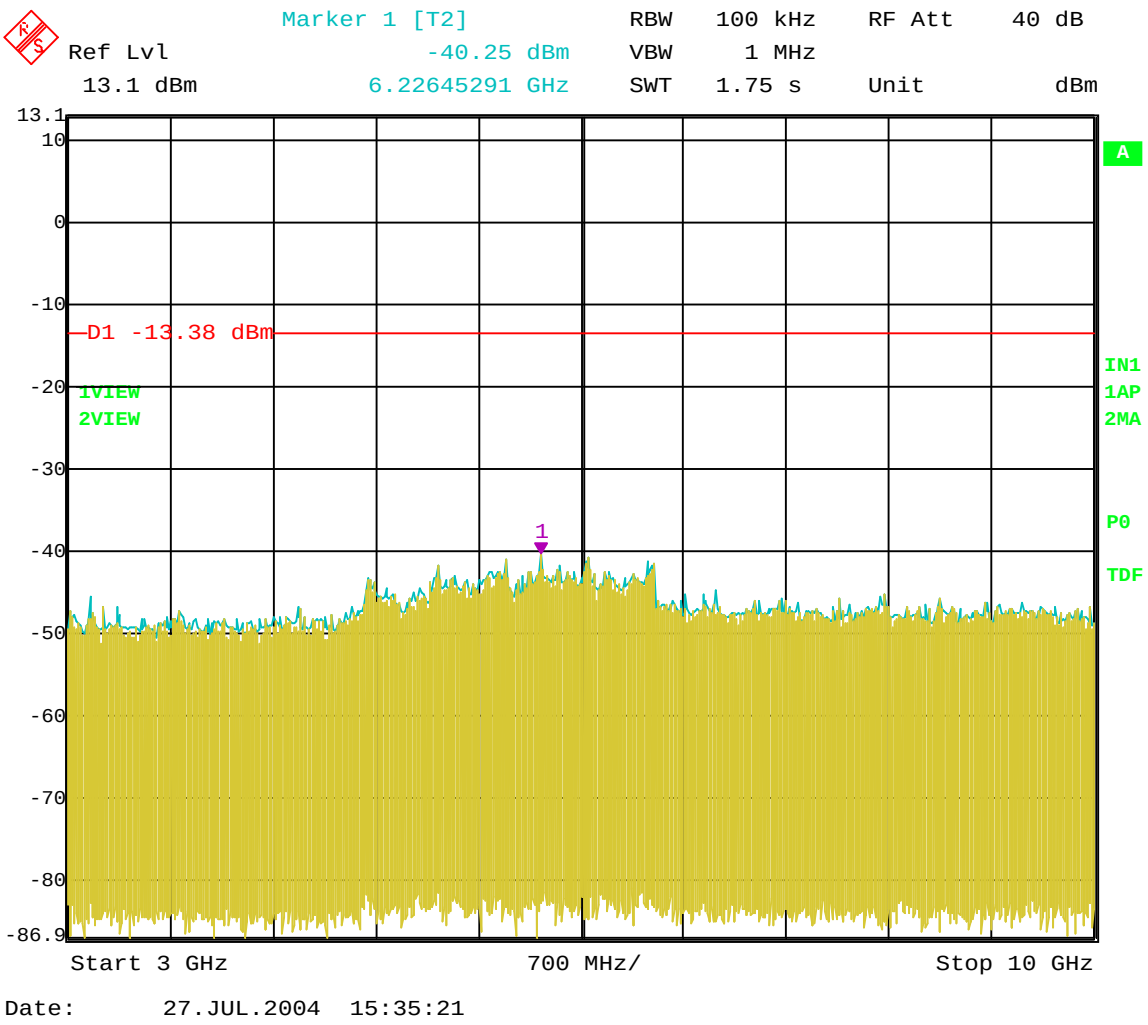
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – 10 GHz to 25 GHz



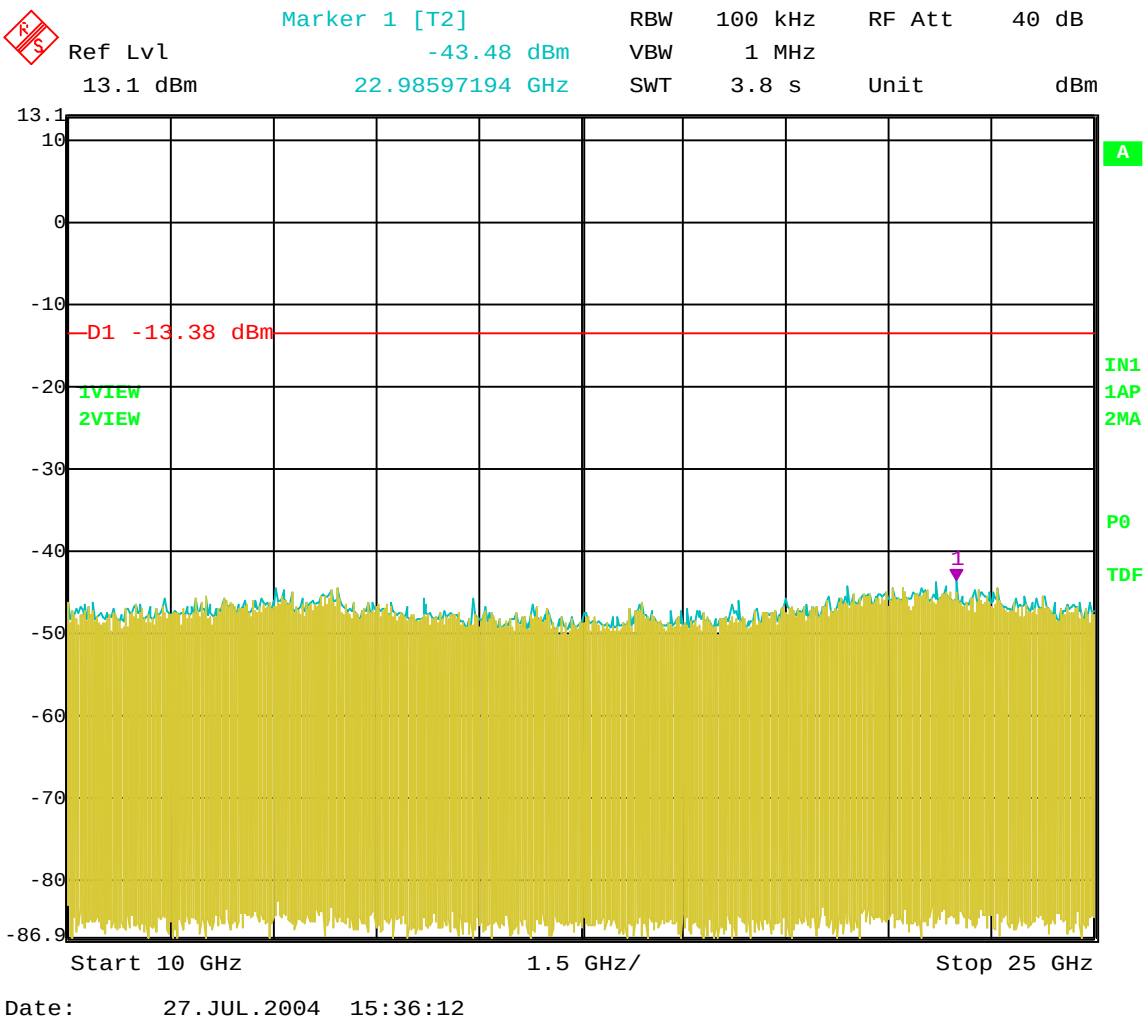
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – 2 MHz to 2 GHz



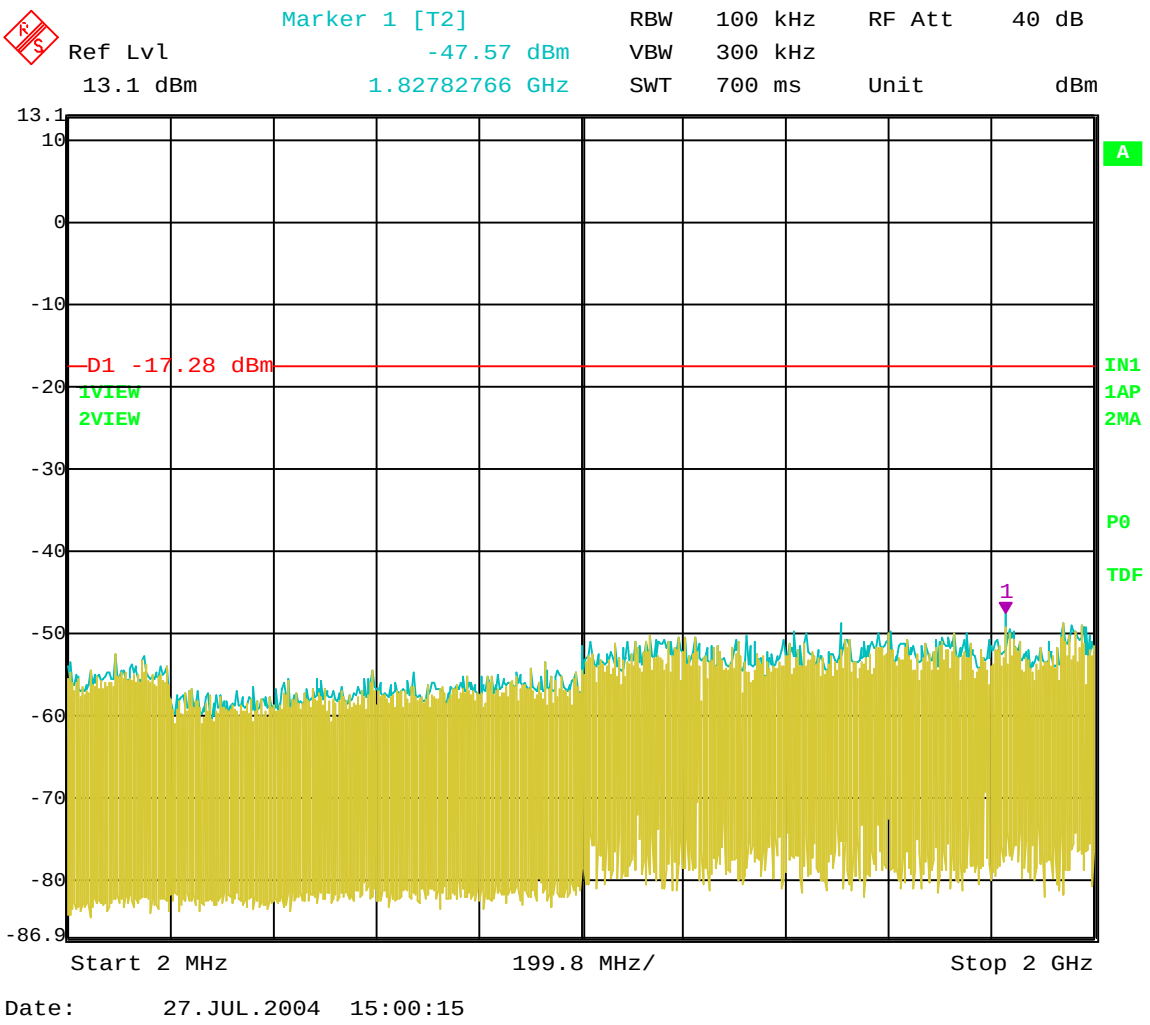
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – 2 GHz to 3 GHz



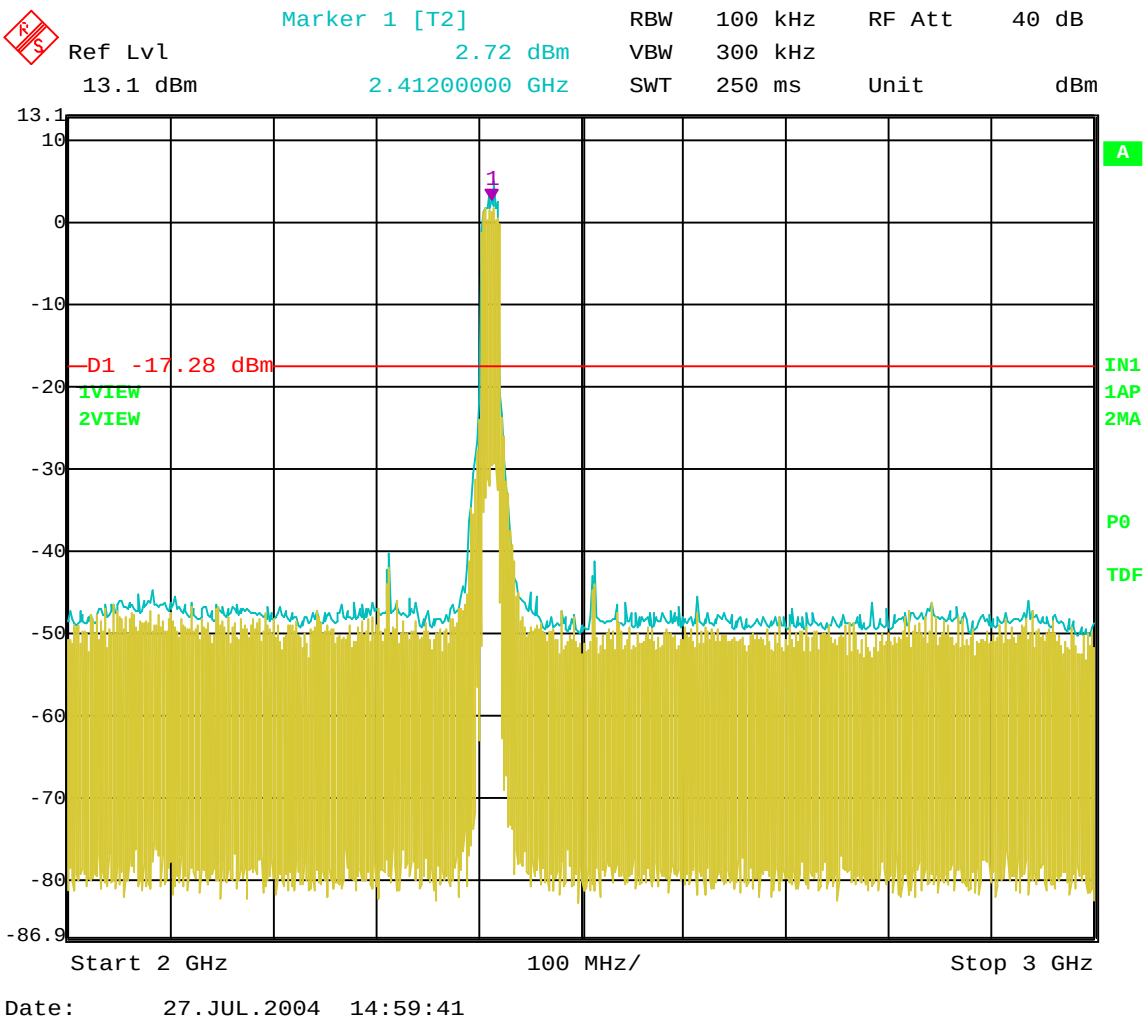
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – 3 GHz to 10 GHz



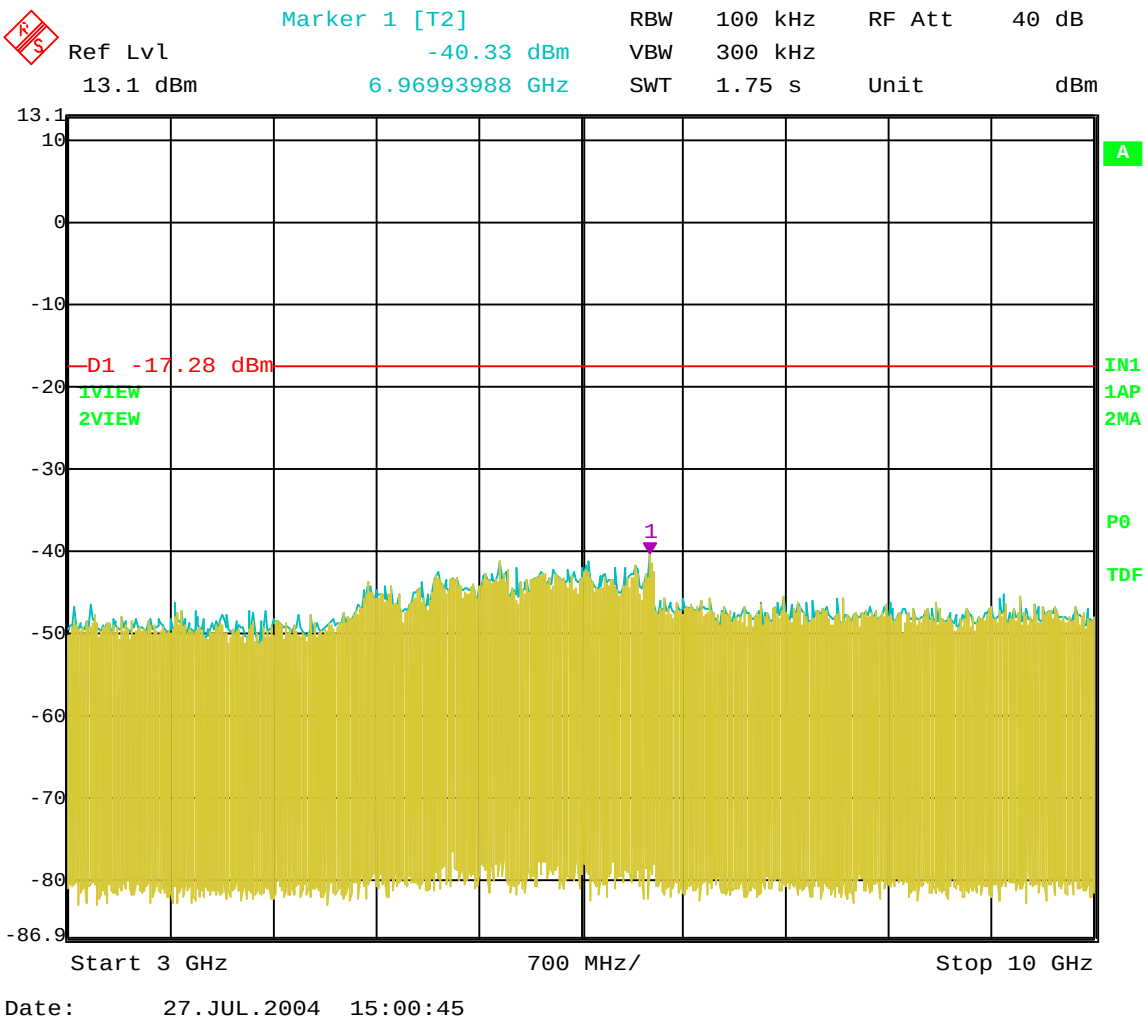
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – 10 GHz to 25 GHz



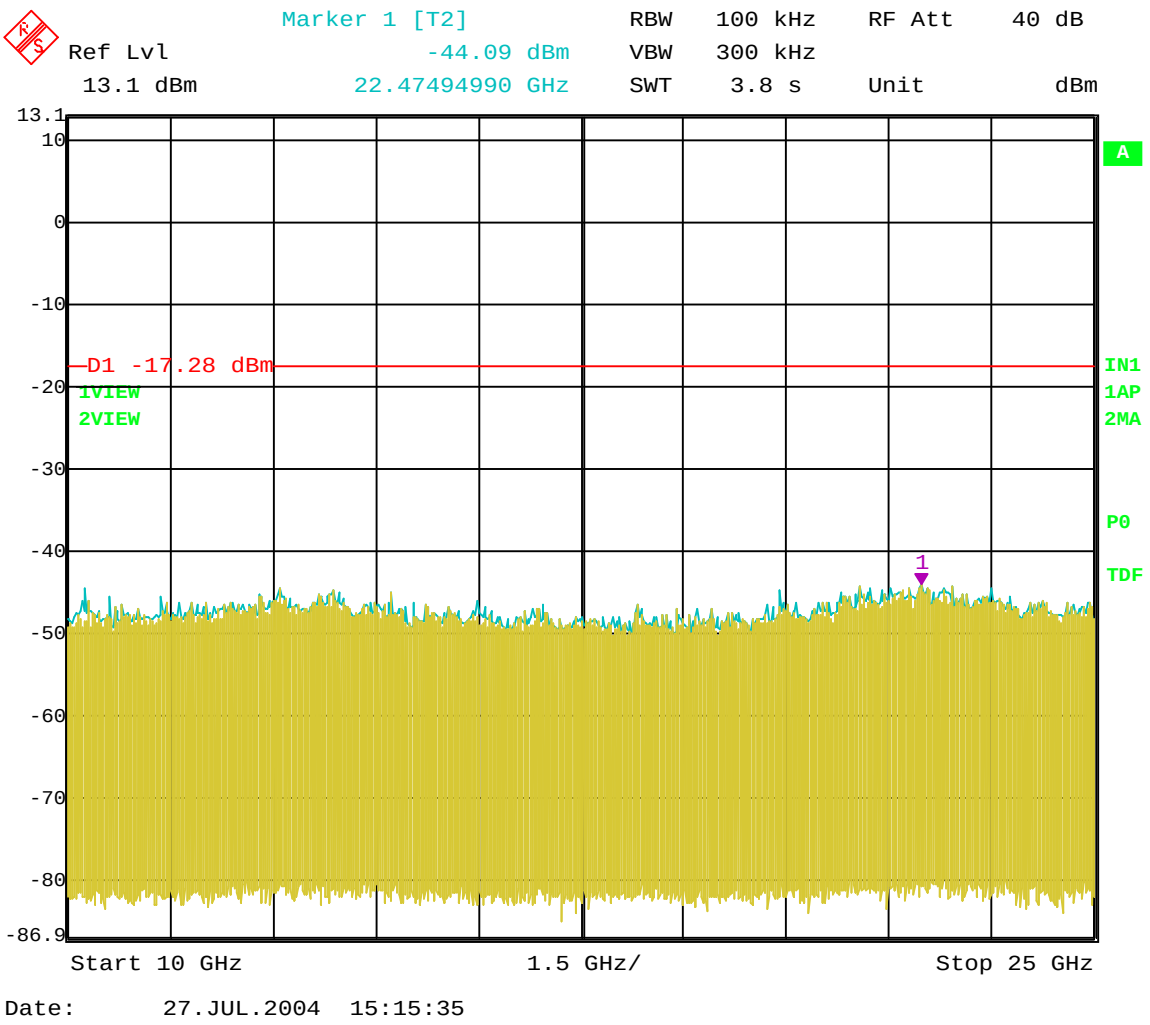
RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – 2 MHz to 2 GHz



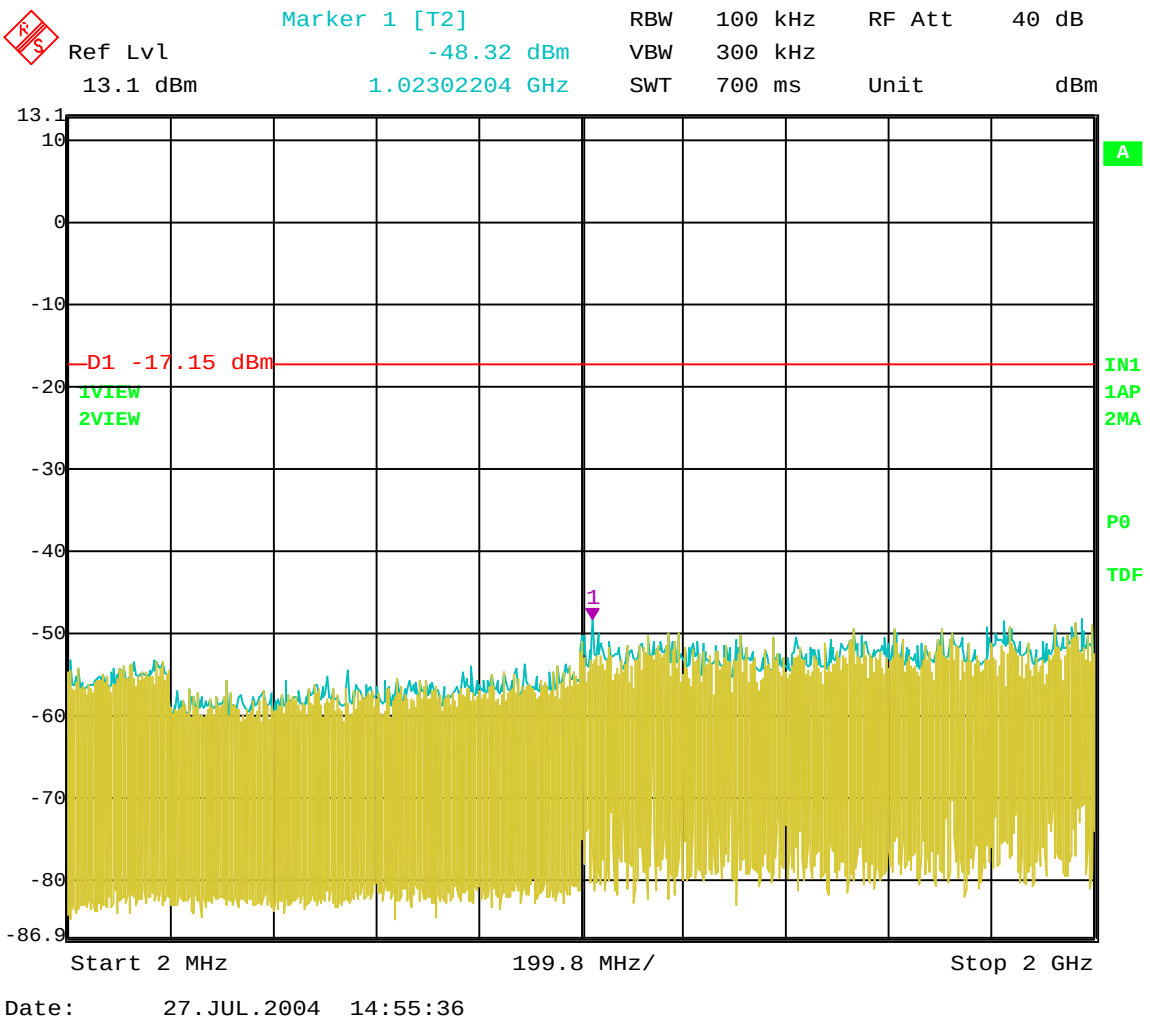
RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – 2 GHz to 3 GHz



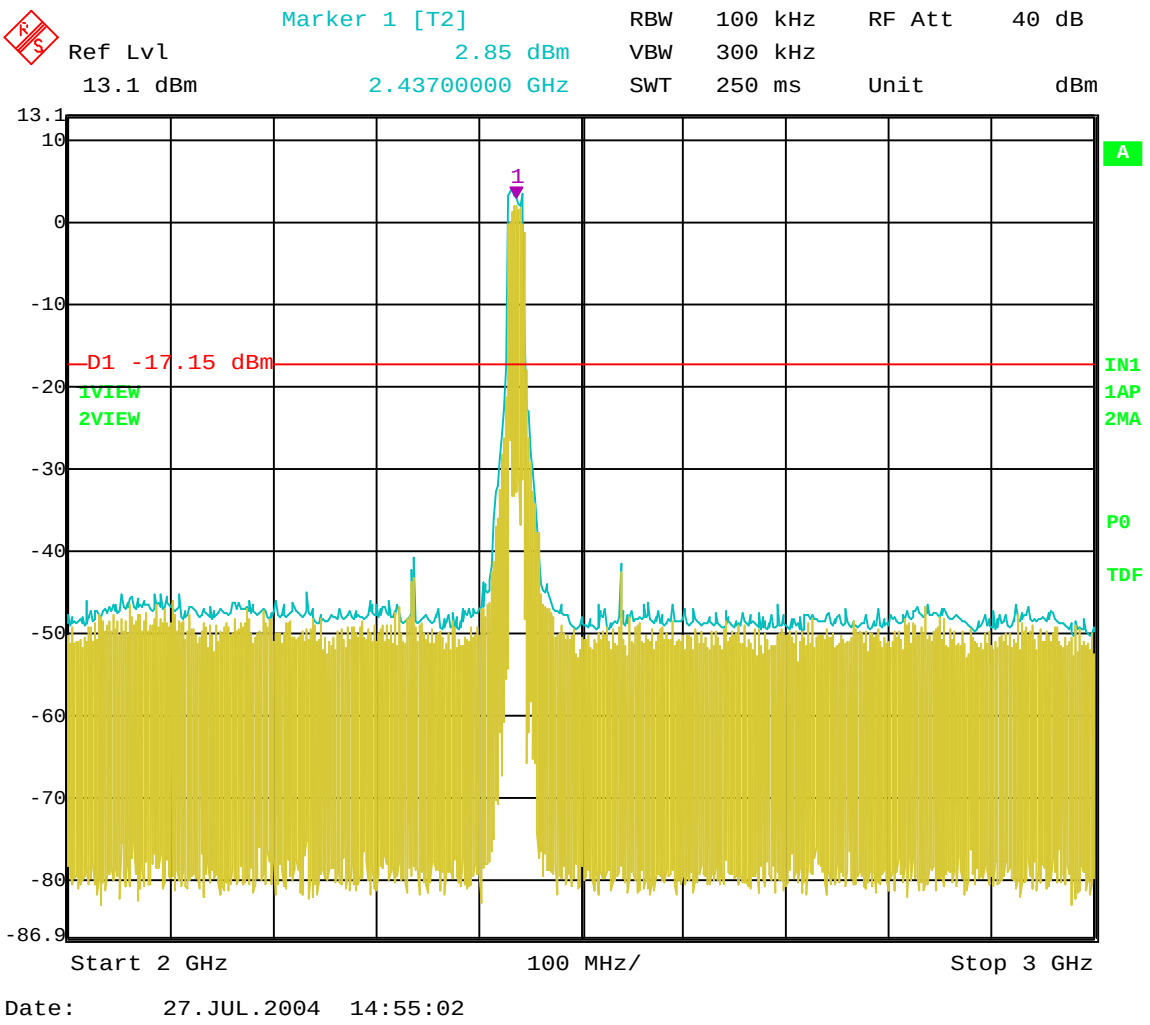
RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – 3 GHz to 10 GHz



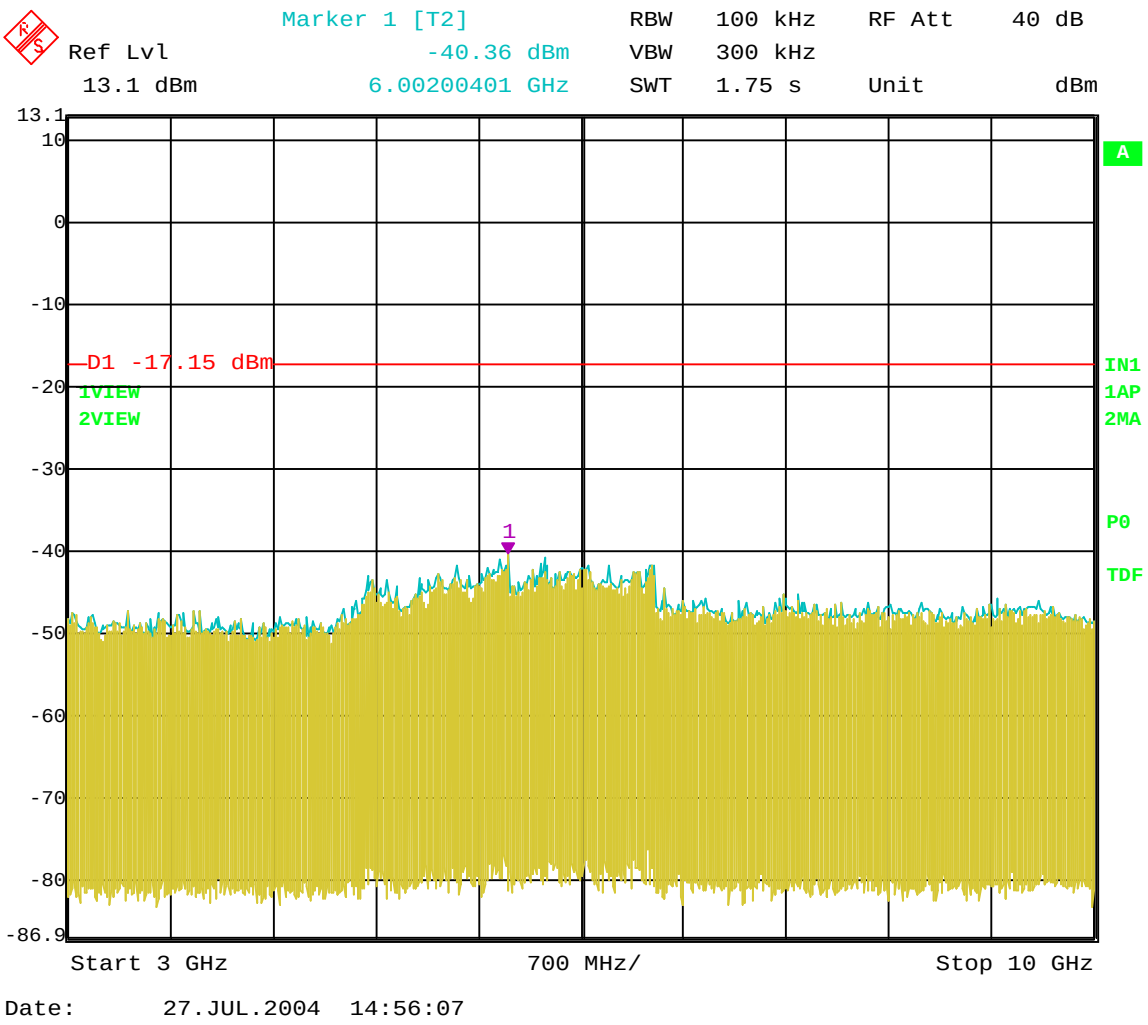
RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – 10 GHz to 25 GHz



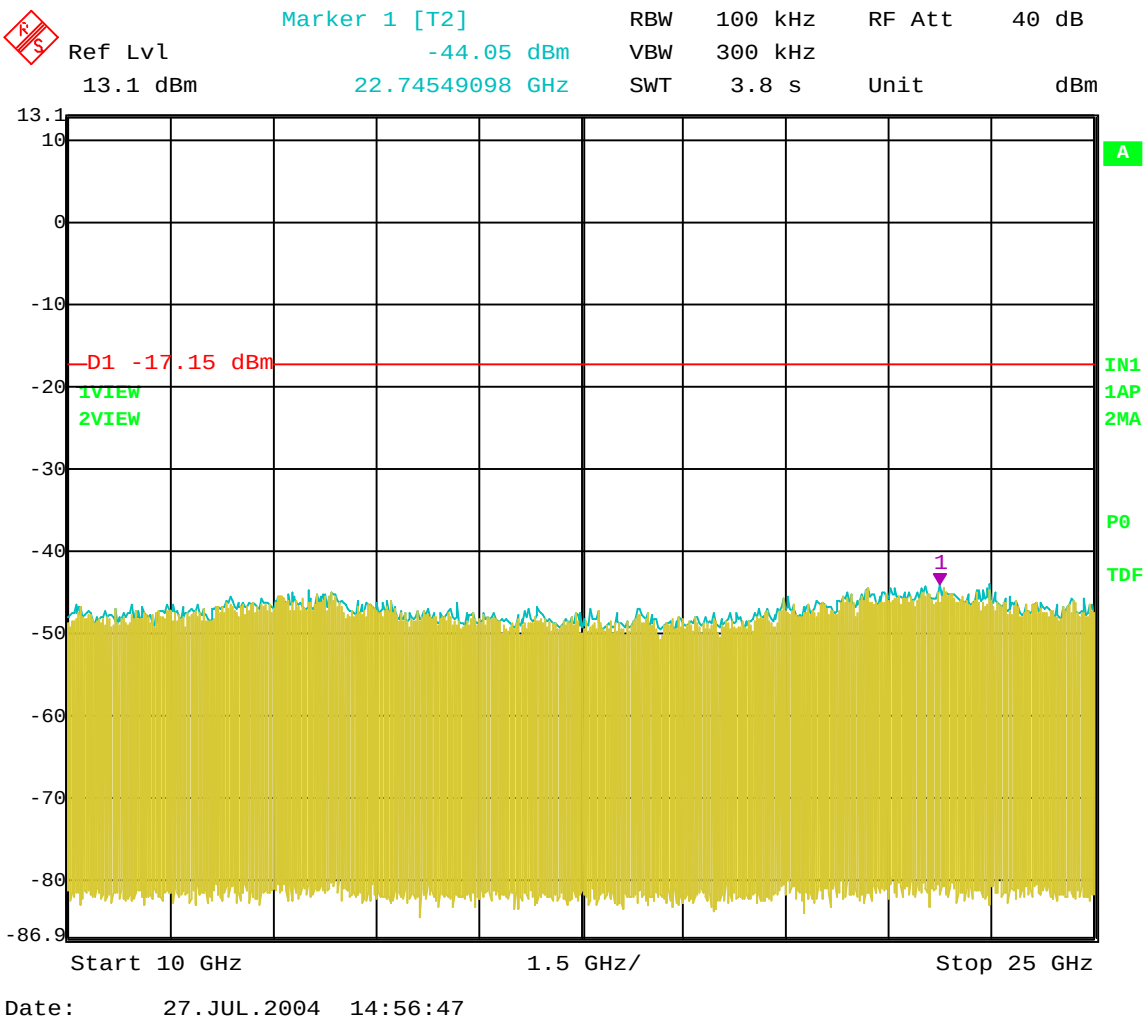
RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – 2 MHz to 2 GHz



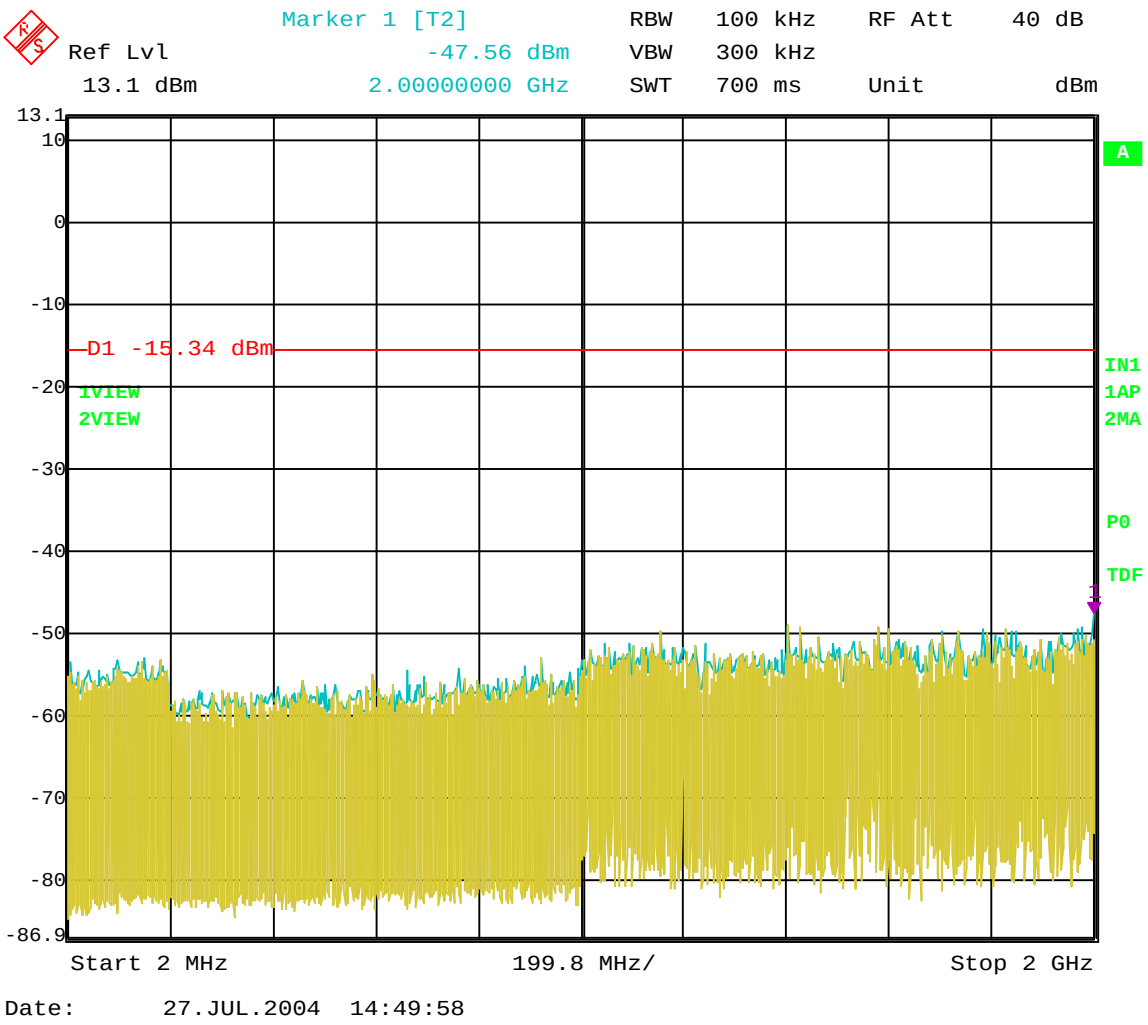
RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – 2 GHz to 3 GHz



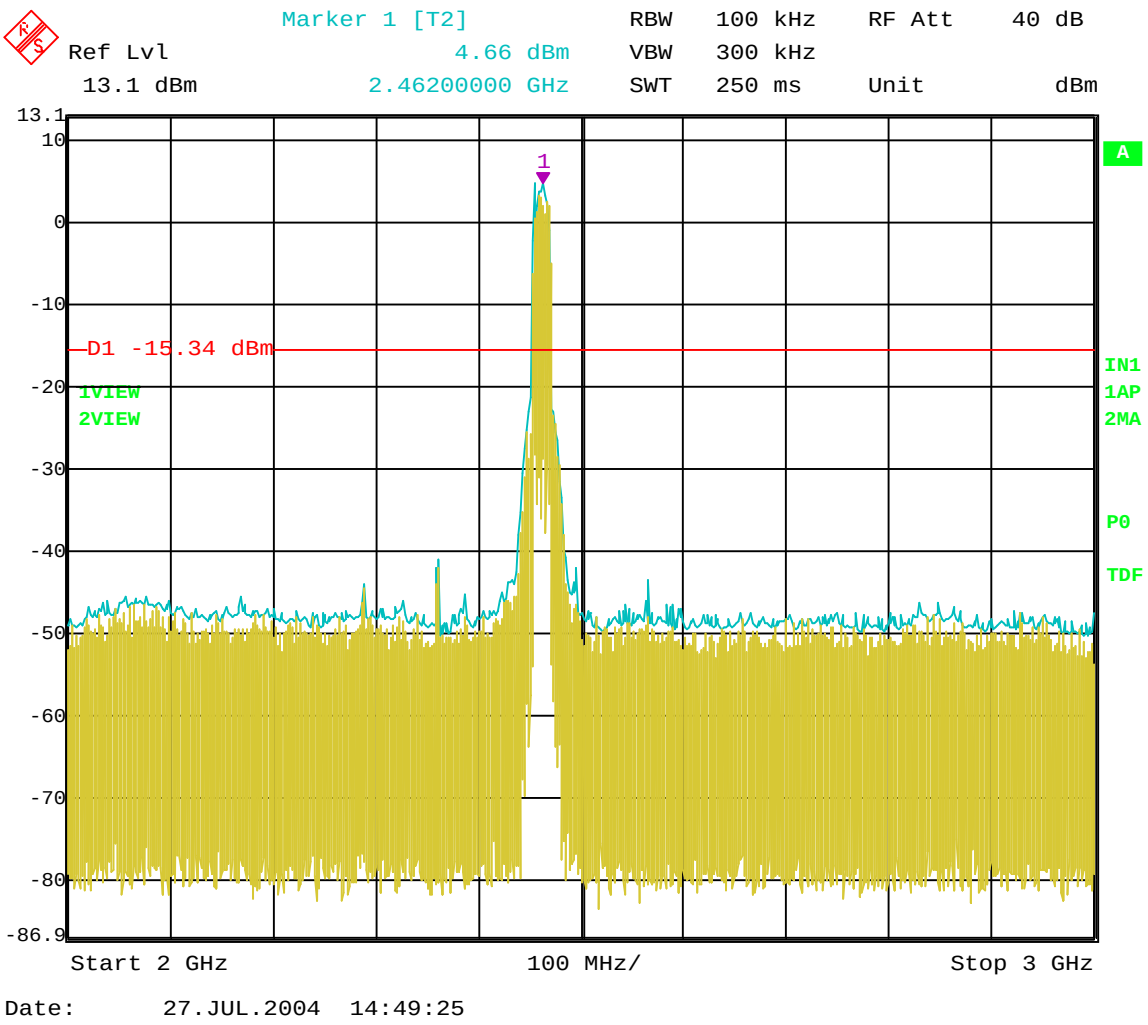
RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – 3 GHz to 10 GHz



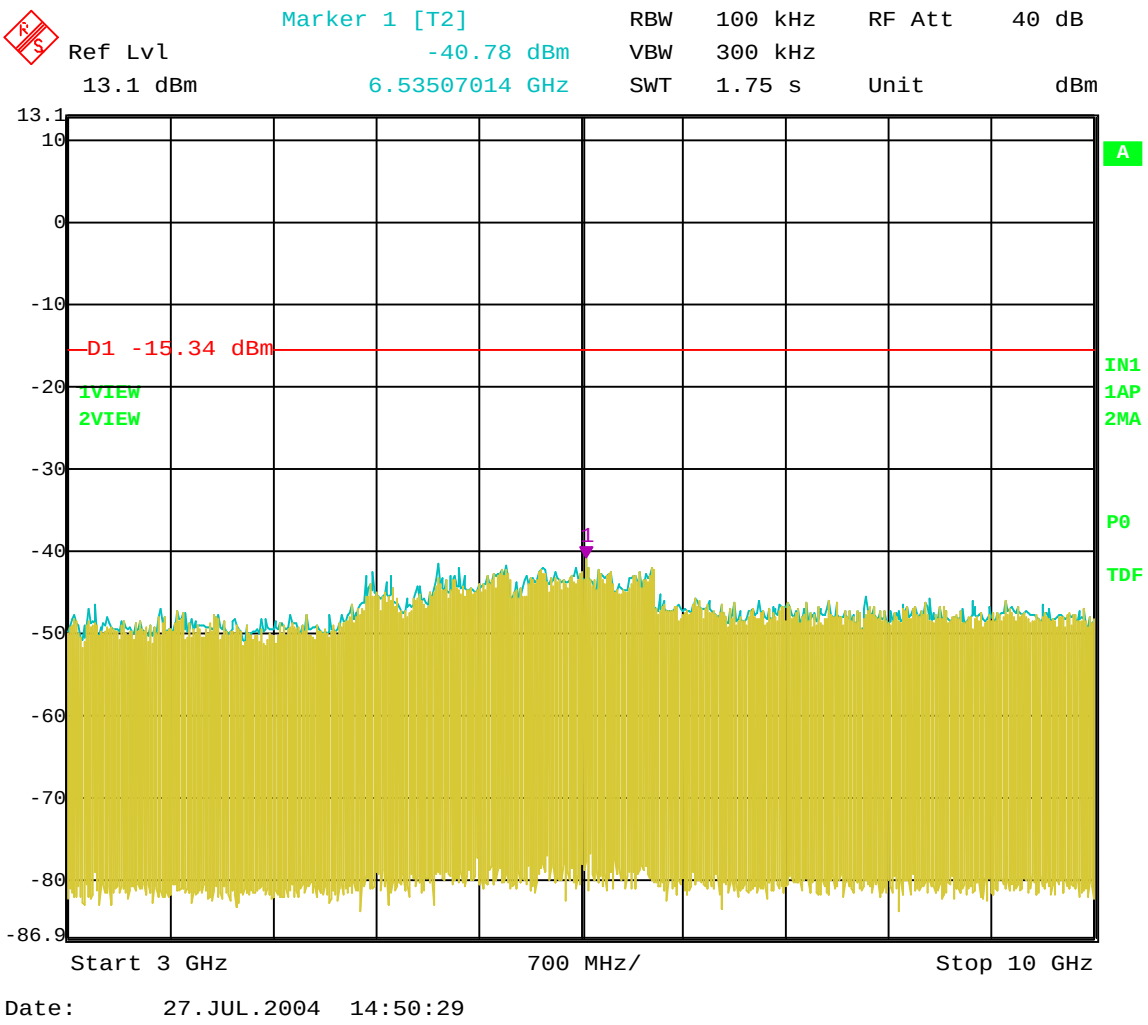
RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – 10 GHz to 25 GHz



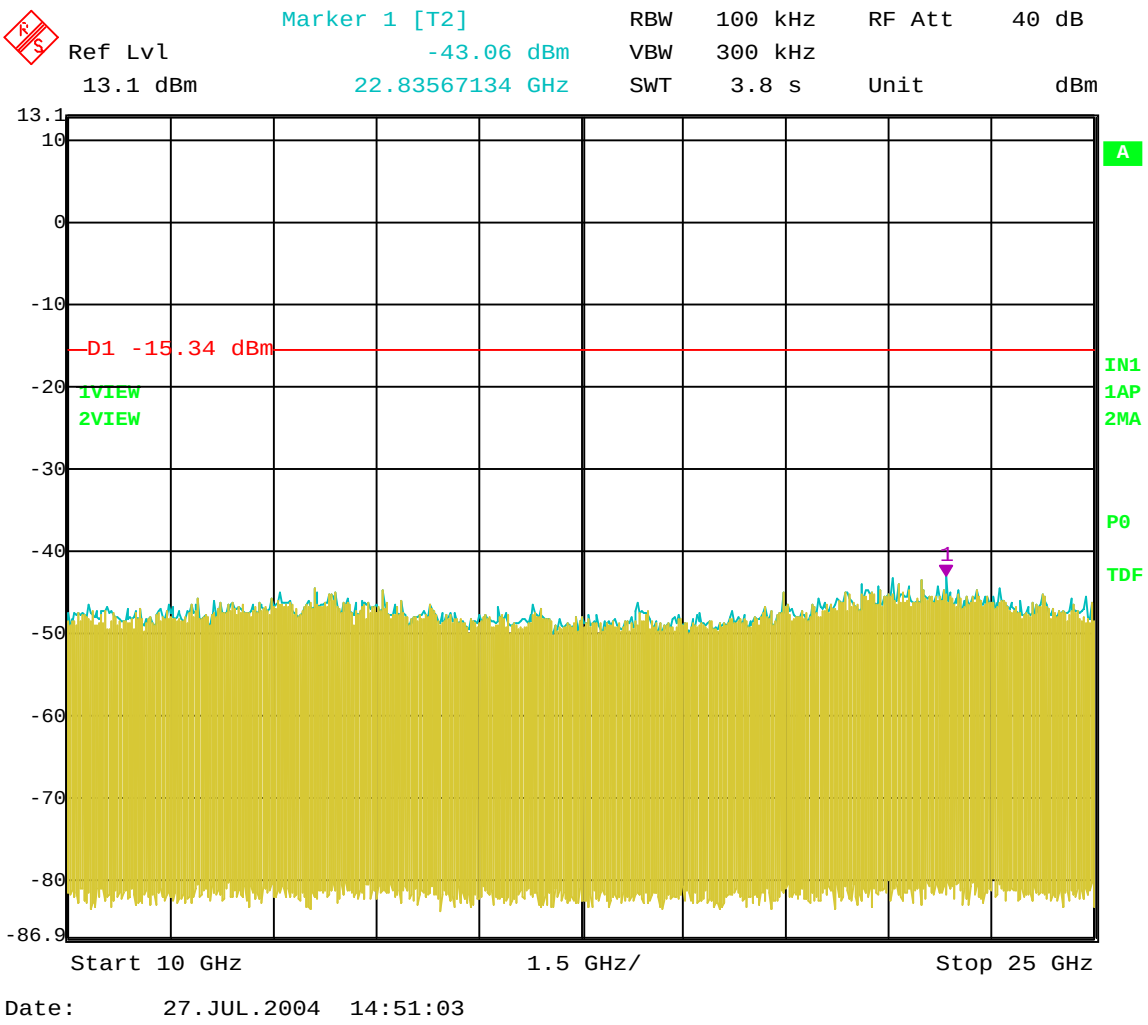
RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – 2 MHz to 2 GHz



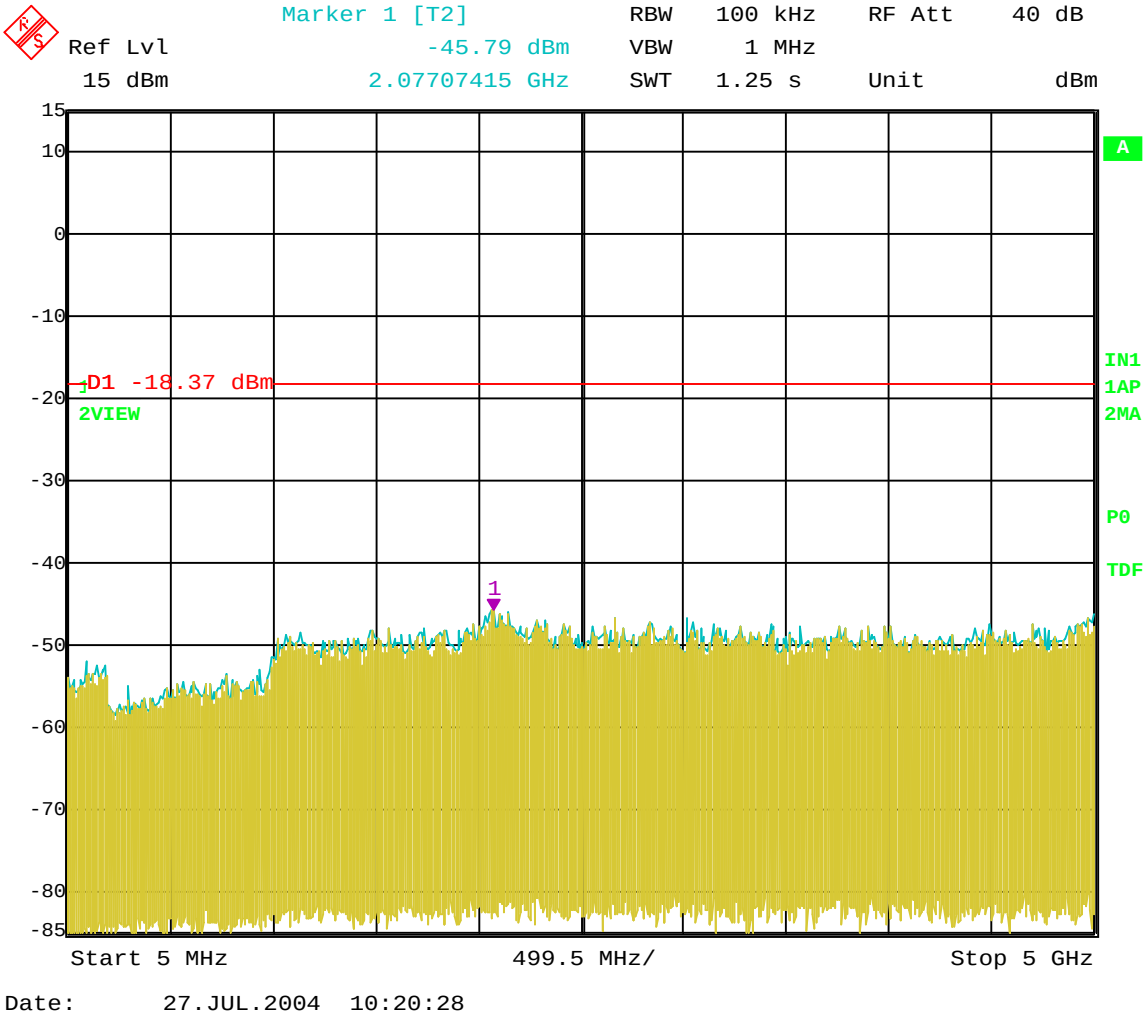
RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – 2 GHz to 3 GHz



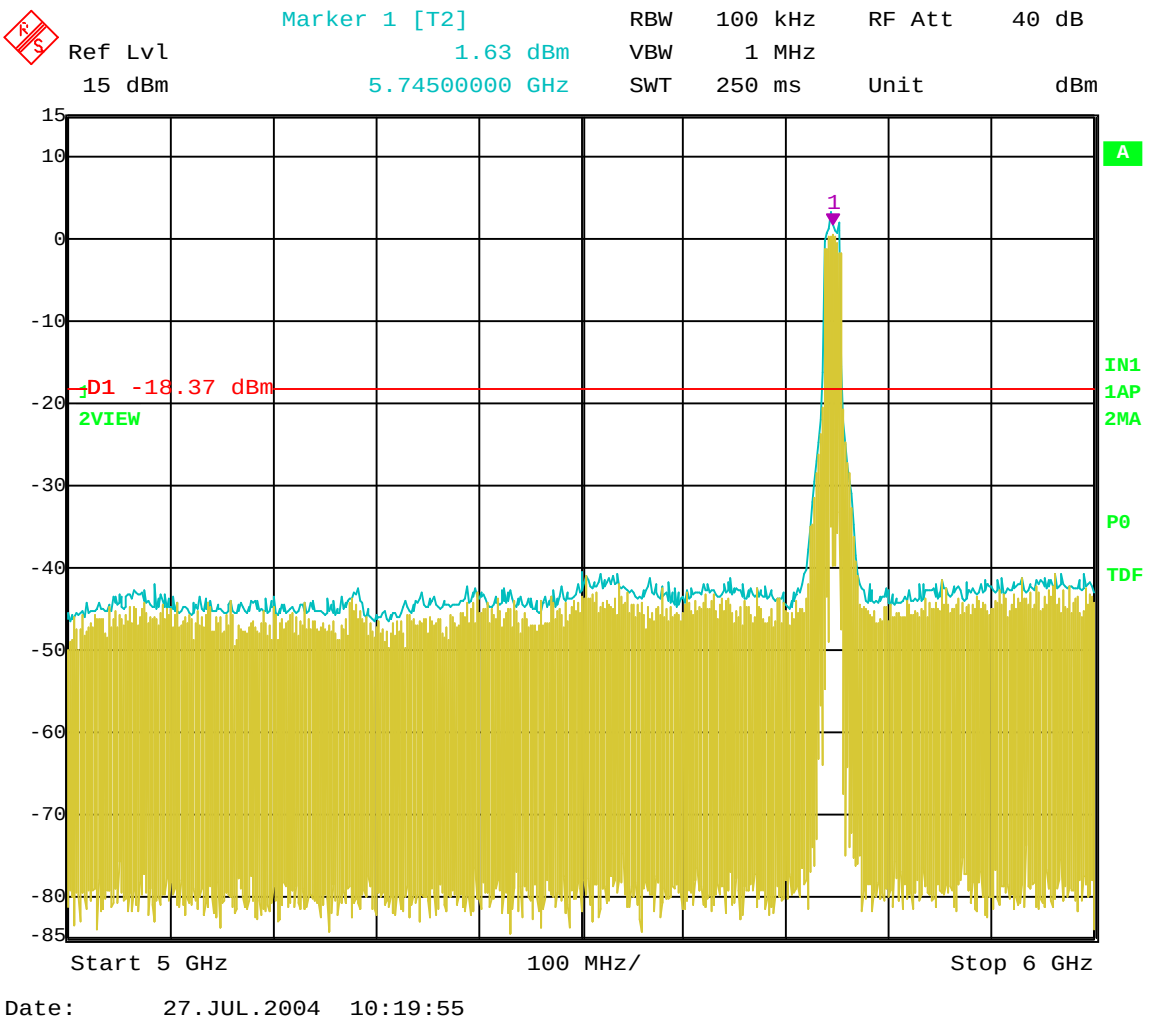
RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – 3 GHz to 10 GHz



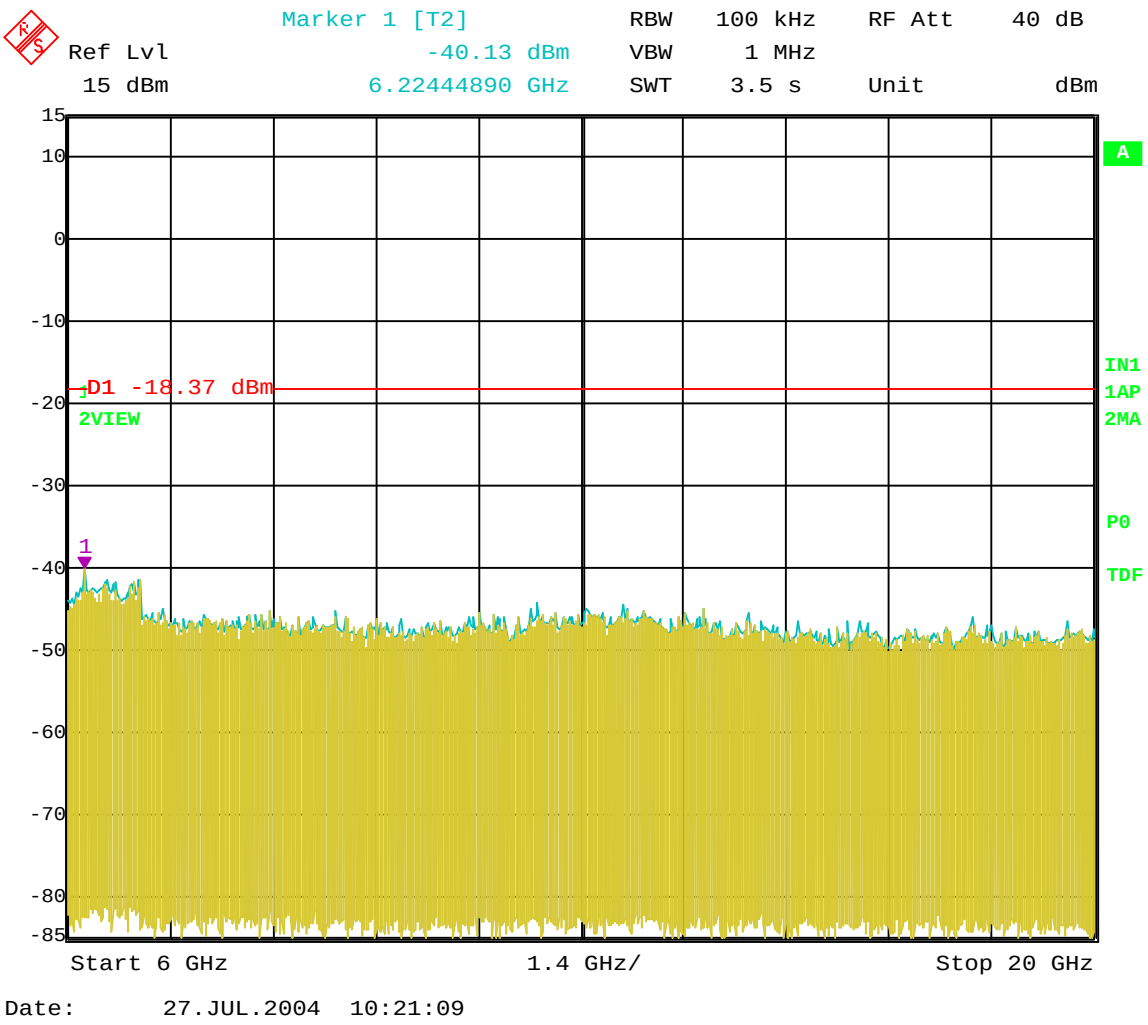
RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – 10 GHz to 25 GHz



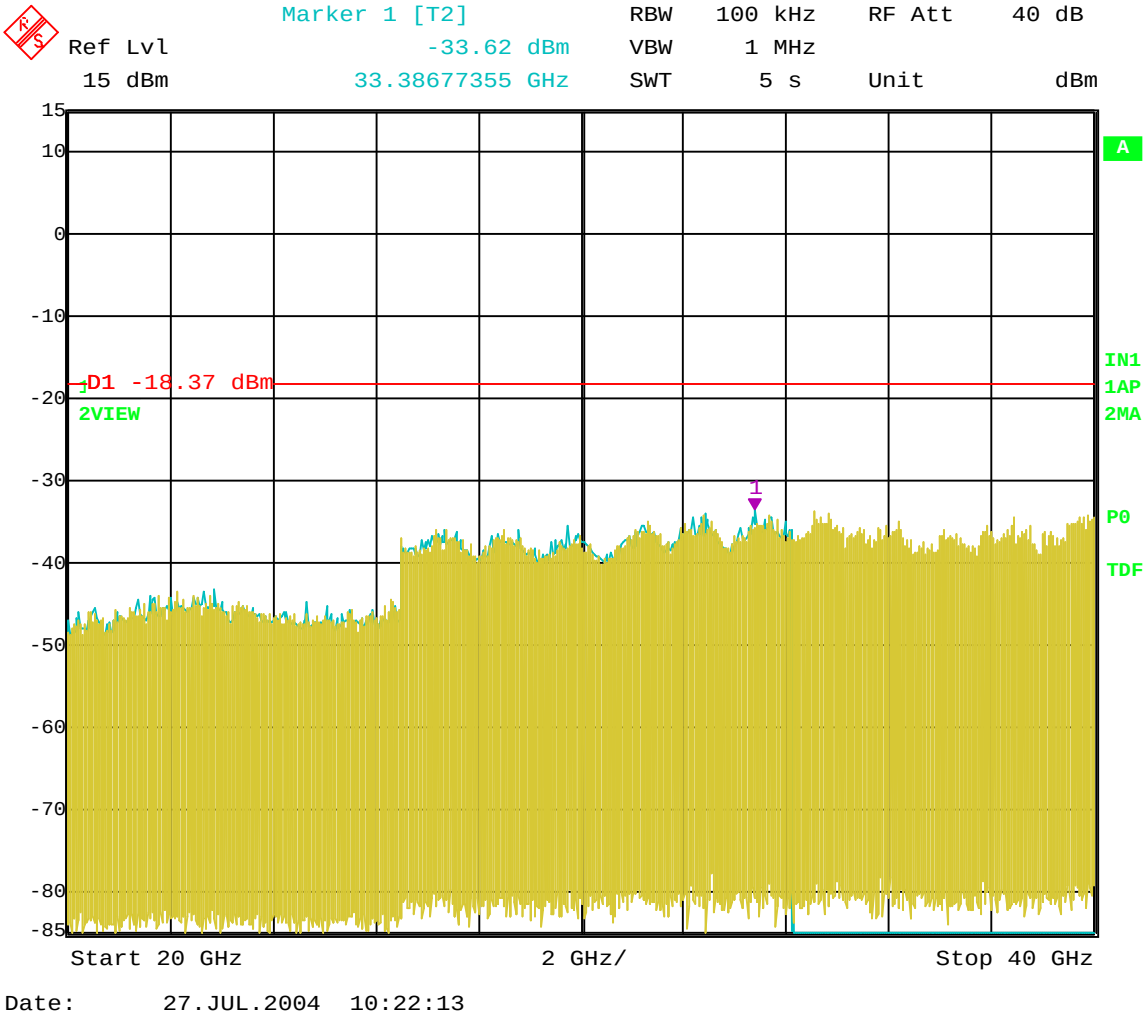
RF Antenna Conducted Test – Channel 149 – 802.11 a Mode – 5 MHz to 5 GHz



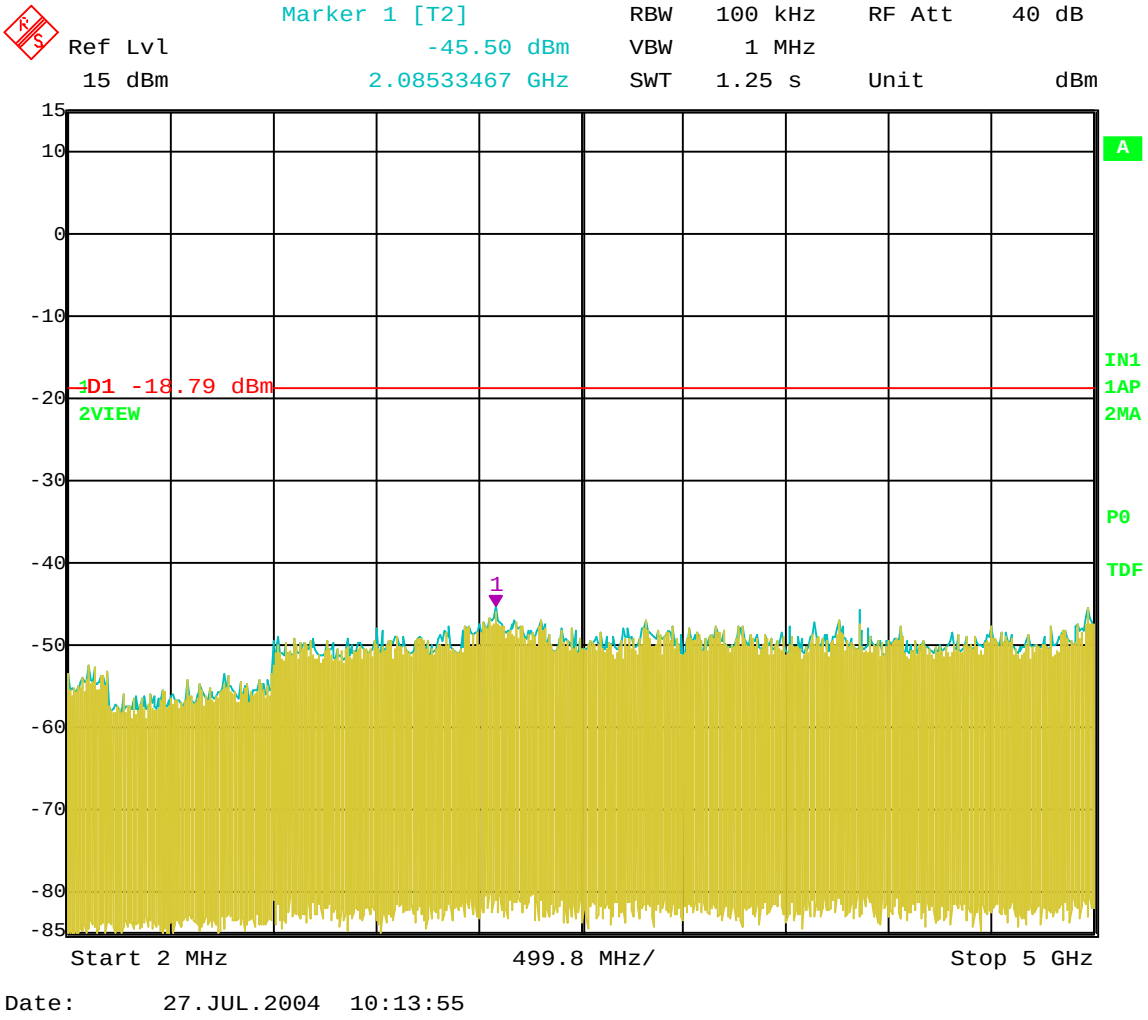
RF Antenna Conducted Test – Channel 149 – 802.11 a Mode – 5 GHz to 6 GHz



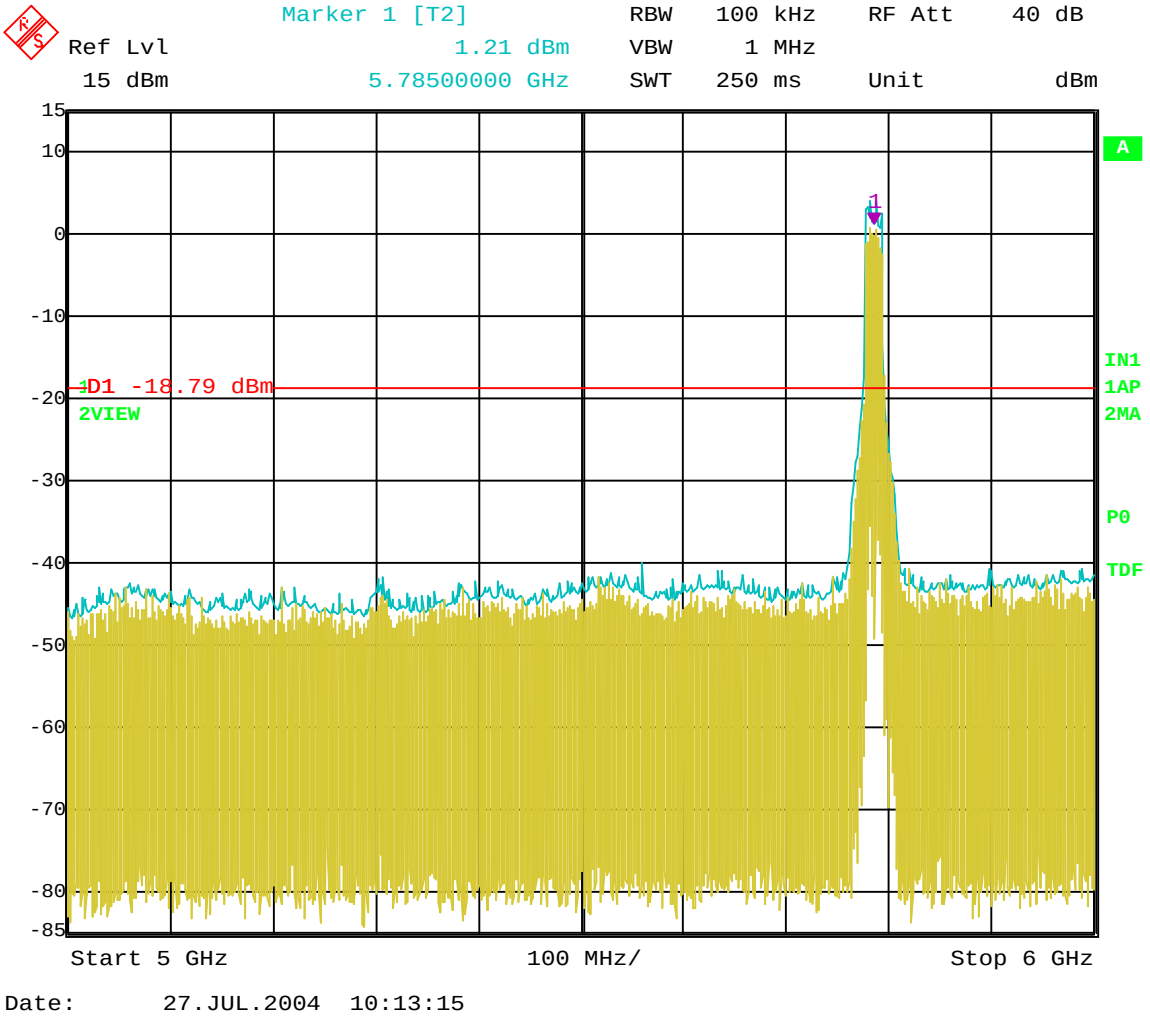
RF Antenna Conducted Test – Channel 149 – 802.11 a Mode – 6 GHz to 20 GHz



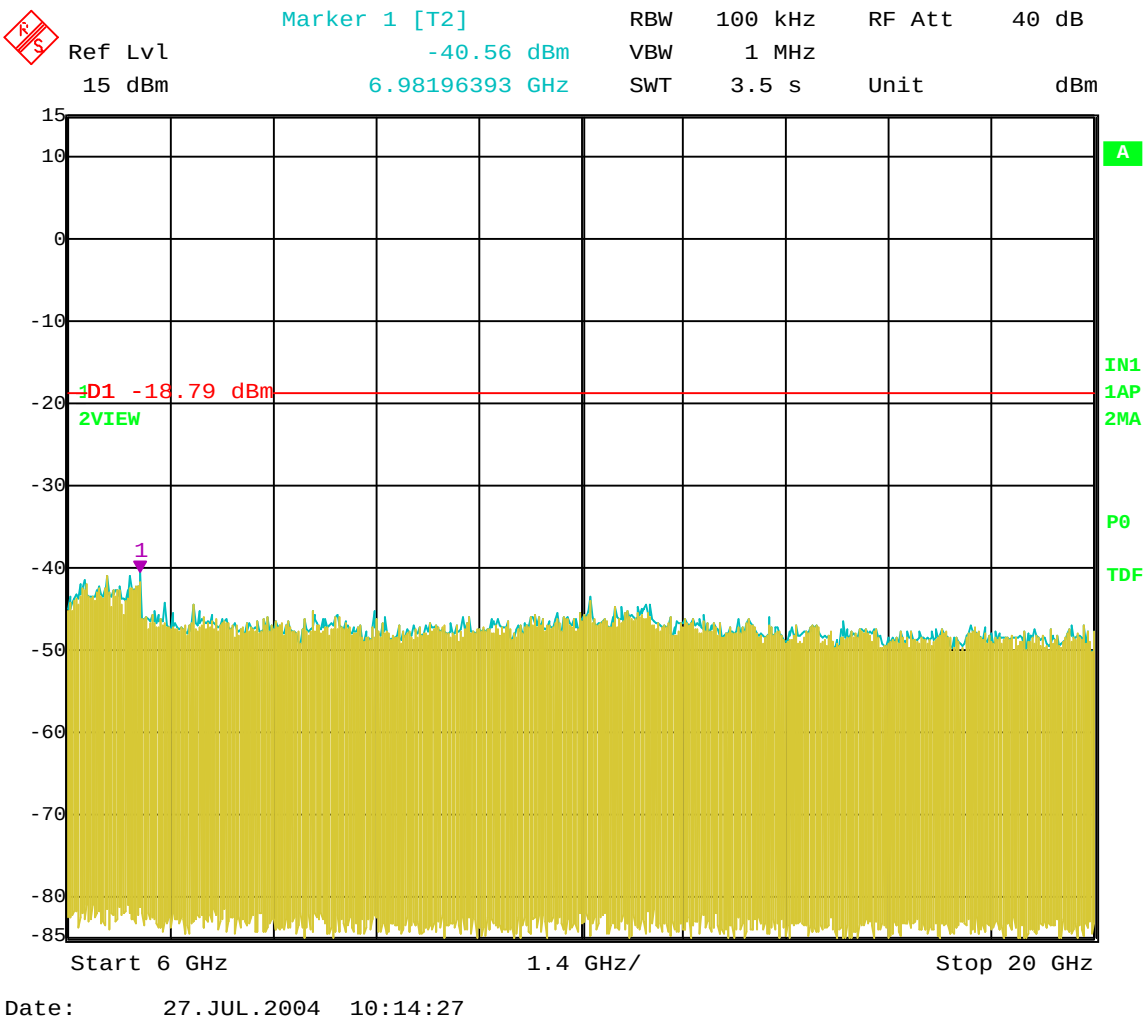
RF Antenna Conducted Test – Channel 149 – 802.11 a Mode – 20 GHz to 40 GHz



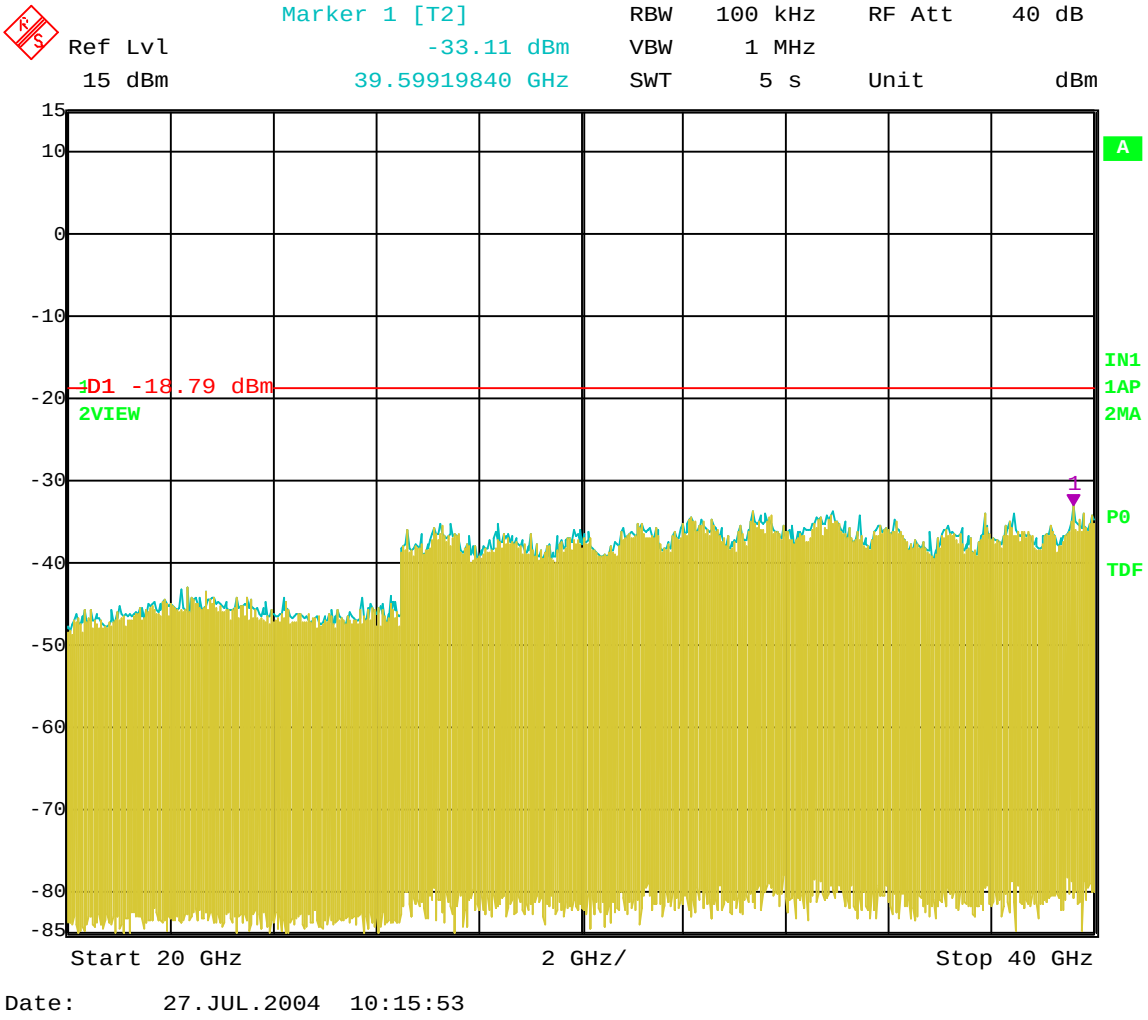
RF Antenna Conducted Test – Channel 157 – 802.11 a Mode – 2 MHz to 5 GHz



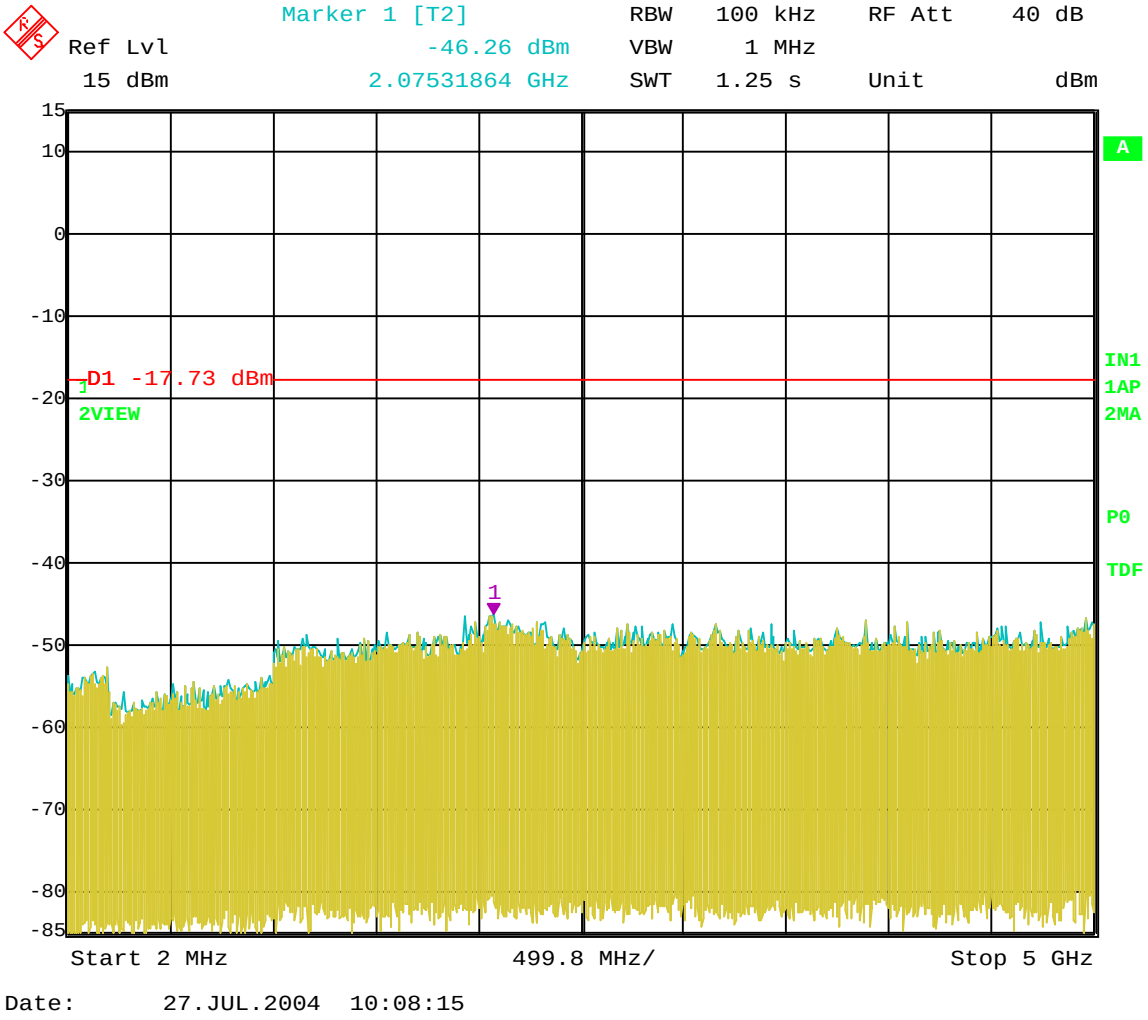
RF Antenna Conducted Test – Channel 157 – 802.11 a Mode – 5 GHz to 6 GHz



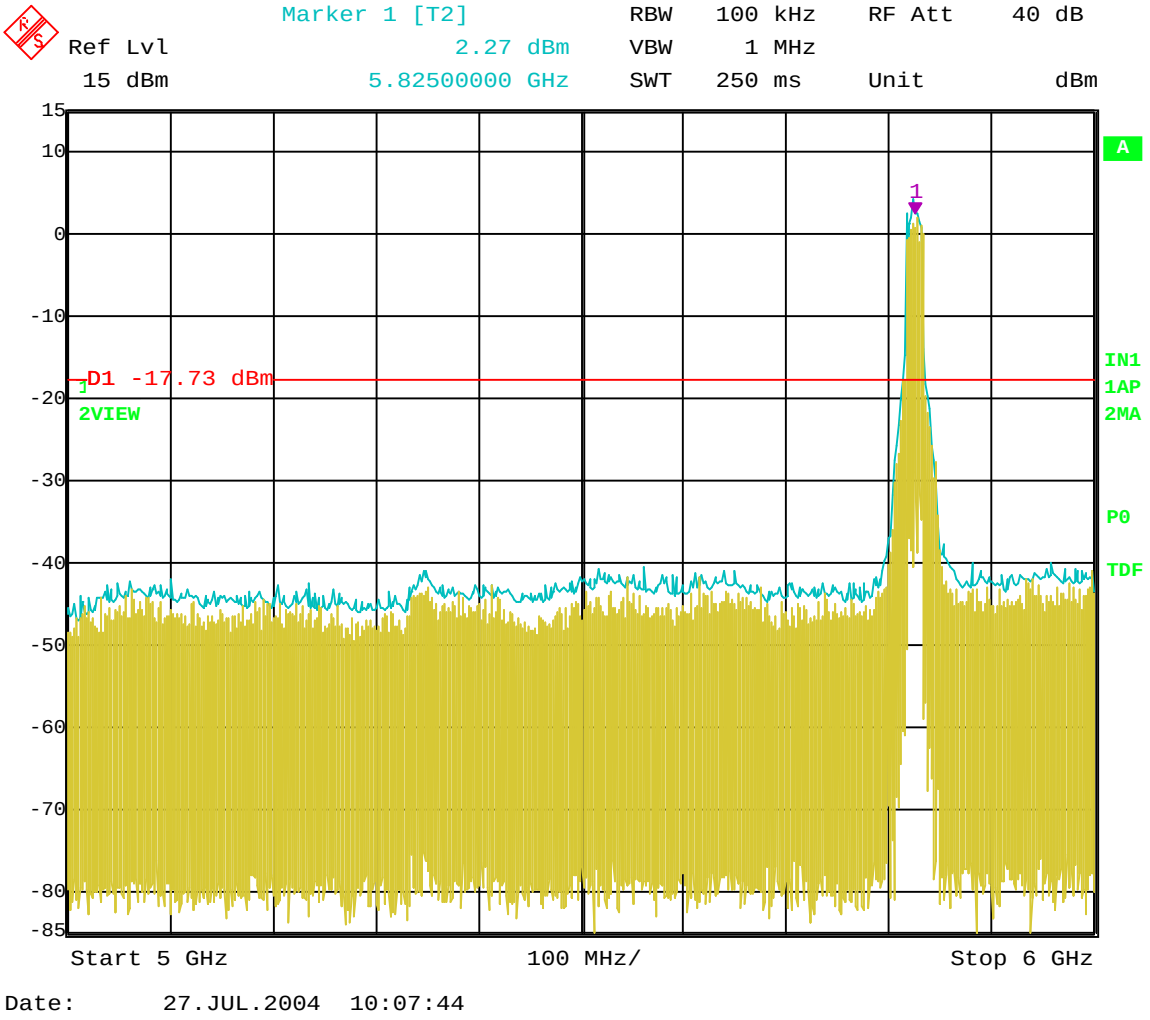
RF Antenna Conducted Test – Channel 157 – 802.11 a Mode – 6 GHz to 20 GHz



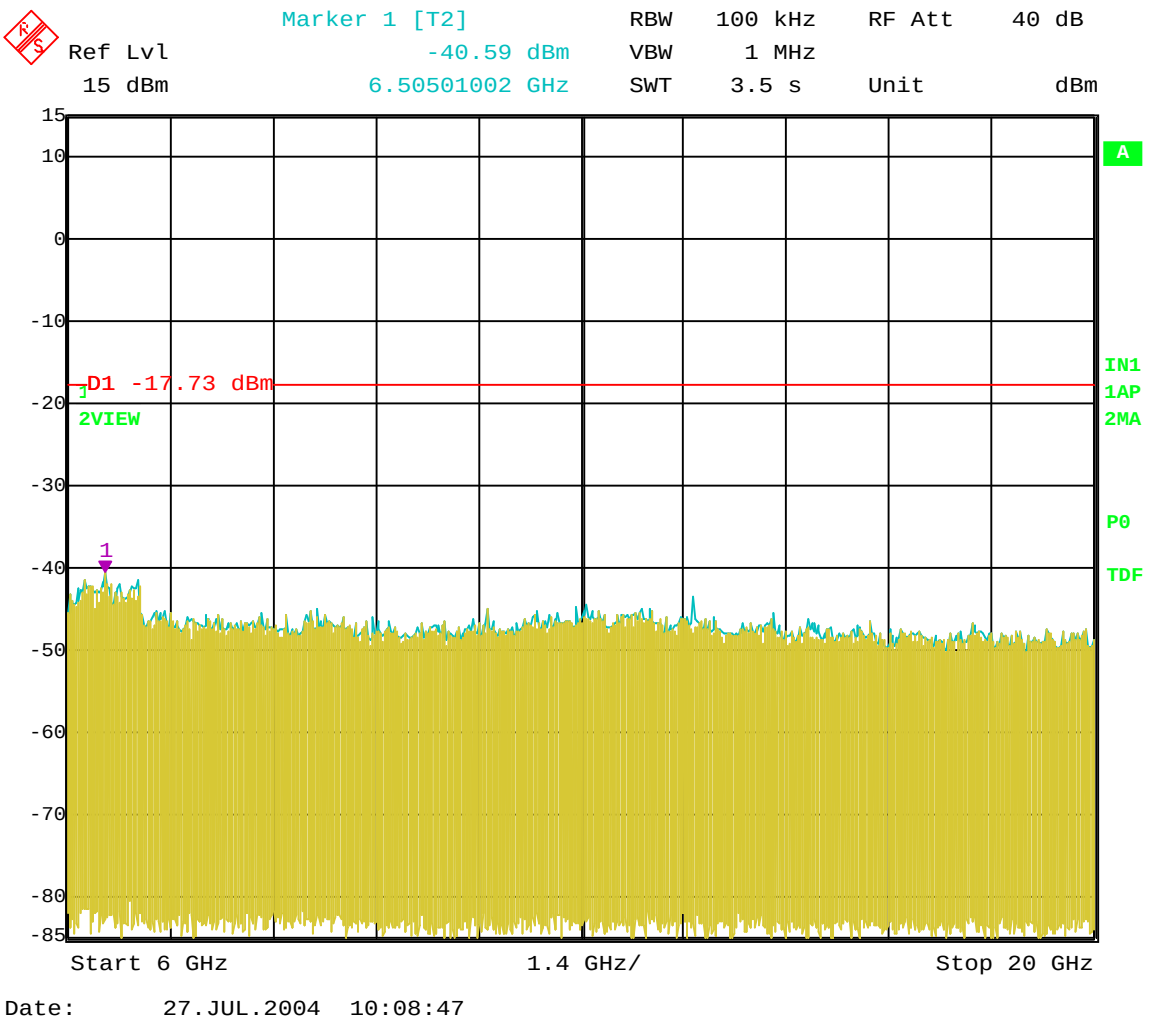
RF Antenna Conducted Test – Channel 157 – 802.11 a Mode – 20 GHz to 40 GHz



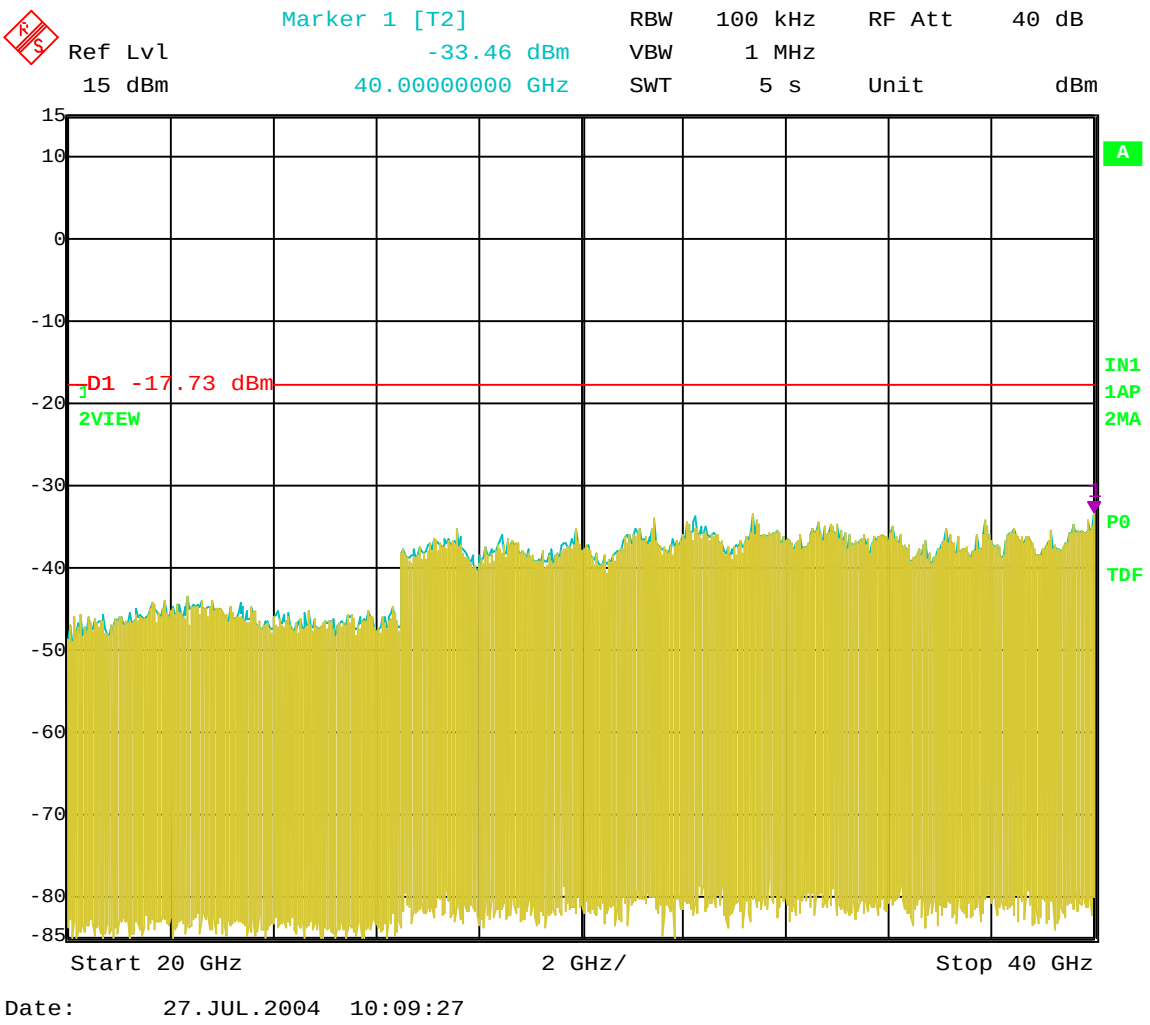
RF Antenna Conducted Test – Channel 165 – 802.11 a Mode – 2 MHz to 5 GHz



RF Antenna Conducted Test – Channel 165 – 802.11 a Mode – 5 GHz to 6 GHz



RF Antenna Conducted Test – Channel 165 – 802.11 a Mode – 6 GHz to 20 GHz



RF Antenna Conducted Test – Channel 165 – 802.11 a Mode – 20 GHz to 40 GHz

BAND EDGES

DATA SHEETS

FCC 15.247

Intel Corporation — Date: 07/24/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X

Model: WM3B2915ABG — Tested By: Ben Chavez

Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 1 - 802.11 b Mode **Transmit Mode**

Gain : 16.5 (99%) Pk. Pwr.: 19.37 dBm (100%) Pk. Pwr.: 19.64 dBm Avg. Power: 17.43 dBm

Channel 6 - 802.11 b Mode **Transmit Mode**

Gain : 16.0 (99%) Pk. Pwr.: 19.33 dBm (100%) Pk. Pwr.: 19.73 dBm Avg. Power: 17.47 dBm

Channel 11 - 802.11 b Mode **Transmit Mode**

Gain : 16.0 (99%) Pk. Pwr.: 19.28 dBm (100%) Pk. Pwr.: 19.62 dBm Avg. Power: 17.37 dBm

Transmit Mode

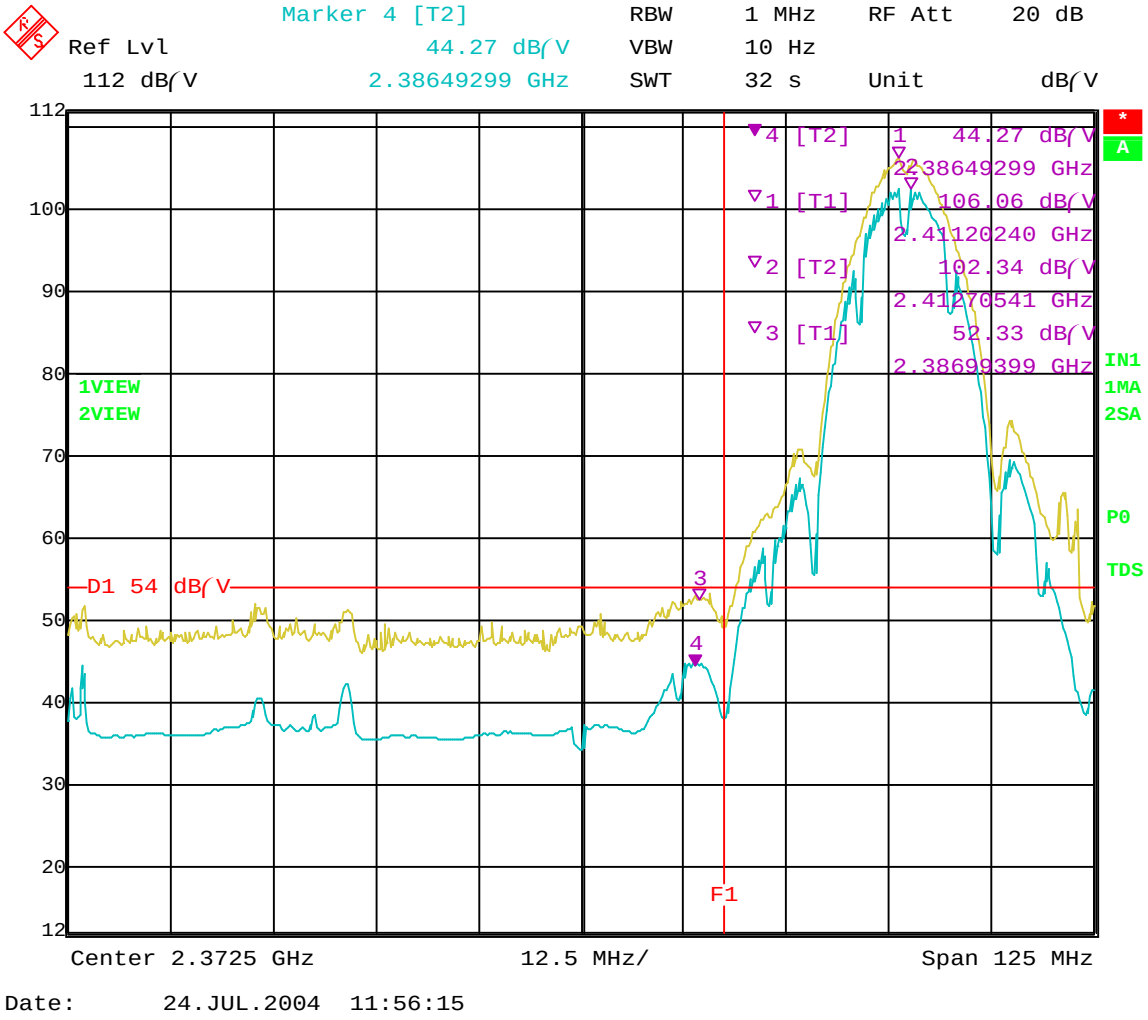
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	106.06	V	--	--	Peak	2.54	270	Fundamental of Channel 1
2412	102.34	V	--	--	Avg	2.54	270	@ 3 meters
2390	48.84	V	74	-25.16	Peak	2.54	270	**No** Marker Delta Method
2390	37.94	V	54	-16.06	Avg	2.54	270	Method Used
2387	52.33	V	74	-21.67	Peak	2.54	270	**No** Marker Delta Method
2387	44.27	V	54	-9.73	Avg	2.54	270	Method Used
2437	106.94	V	--	--	Peak	2.15	270	Fundamental of Channel 6
2437	103.33	V	--	--	Avg	2.15	270	@ 3 meters
2462	106.46	V	--	--	Peak	1.48	270	Fundamental of Channel 11
2462	102.88	V	--	--	Avg	1.48	270	@ 3 meters
2483.5	51.29	V	74	-22.71	Peak	1.48	270	**No** Marker Delta Method
2483.5	42.36	V	54	-11.64	Avg	1.48	270	Method Used
2488.8	53.18	V	74	-20.82	Peak	1.48	270	**No** Marker Delta Method
2488.8	45.49	V	54	-8.51	Avg	1.48	270	Method Used

FCC 15.247

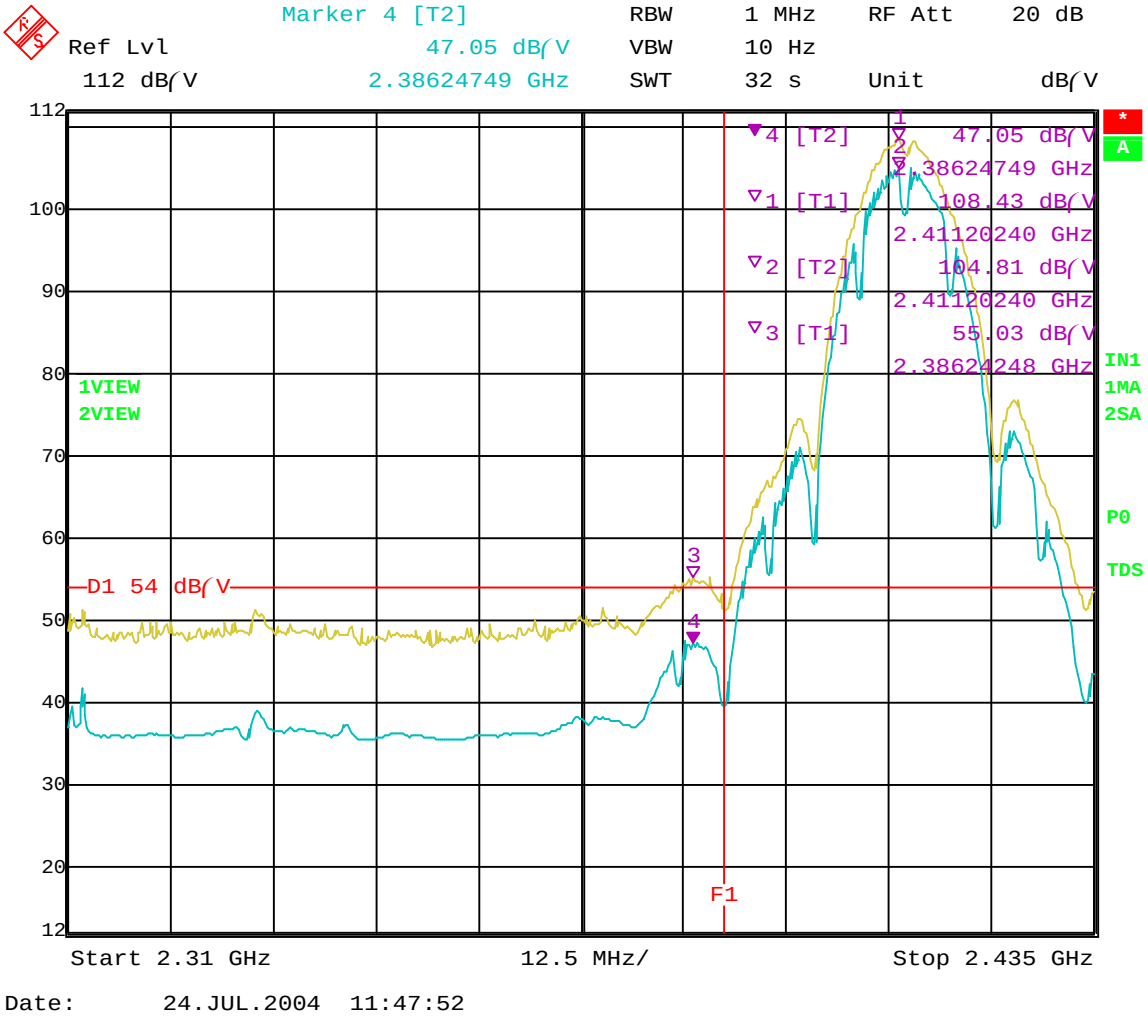
Intel Corporation — Date: 07/24/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Channel 1 - 802.11 b Mode **Transmit Mode**
Gain : 16.5 (99%) Pk. Pwr.: 19.37 dBm (100%) Pk. Pwr.: 19.64 dBm Avg. Power: 17.43 dBm
Channel 6 - 802.11 b Mode **Transmit Mode**
Gain : 16.0 (99%) Pk. Pwr.: 19.33 dBm (100%) Pk. Pwr.: 19.73 dBm Avg. Power: 17.47 dBm
Channel 11 - 802.11 b Mode **Transmit Mode**
Gain : 16.0 (99%) Pk. Pwr.: 19.28 dBm (100%) Pk. Pwr.: 19.62 dBm Avg. Power: 17.37 dBm
Transmit Mode

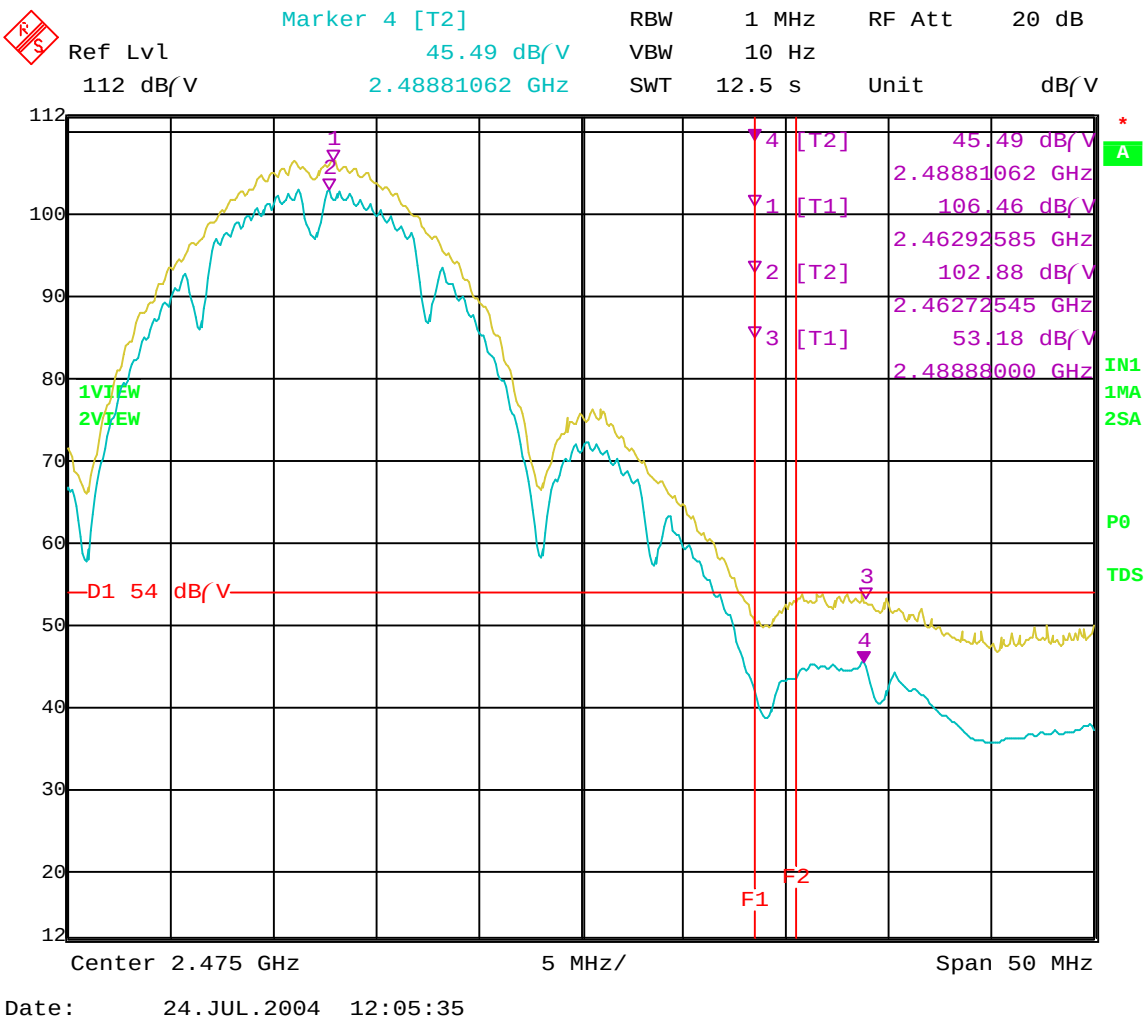
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	108.43	H	--	--	Peak	1.99	225	Fundamental of Channel 1
2412	104.41	H	--	--	Avg	1.99	225	@ 3 meters
2390	51.1	H	74	-22.9	Peak	1.99	225	**No** Marker Delta Method
2390	39.37	H	54	-14.63	Avg	1.99	225	Method Used
2386.2	55.03	H	74	-18.97	Peak	1.99	225	**No** Marker Delta Method
2386.2	47.05	H	54	-6.95	Avg	1.99	225	Method Used
2437	109.23	H	--	--	Peak	1.36	225	Fundamental of Channel 6
2437	105.31	H	--	--	Avg	1.36	225	@ 3 meters
2462	108.6	H	--	--	Peak	1.06	225	Fundamental of Channel 11
2462	105	H	--	--	Avg	1.06	225	@ 3 meters
2483.5	51.86	H	74	-22.14	Peak	1.06	225	**No** Marker Delta Method
2485.3	43	H	54	-11	Peak	1.06	225	Method Used
2488.8	53.44	H	74	-20.56	Peak	1.06	225	**No** Marker Delta Method
2488.8	45.54	H	54	-8.46	Peak	1.06	225	Method Used



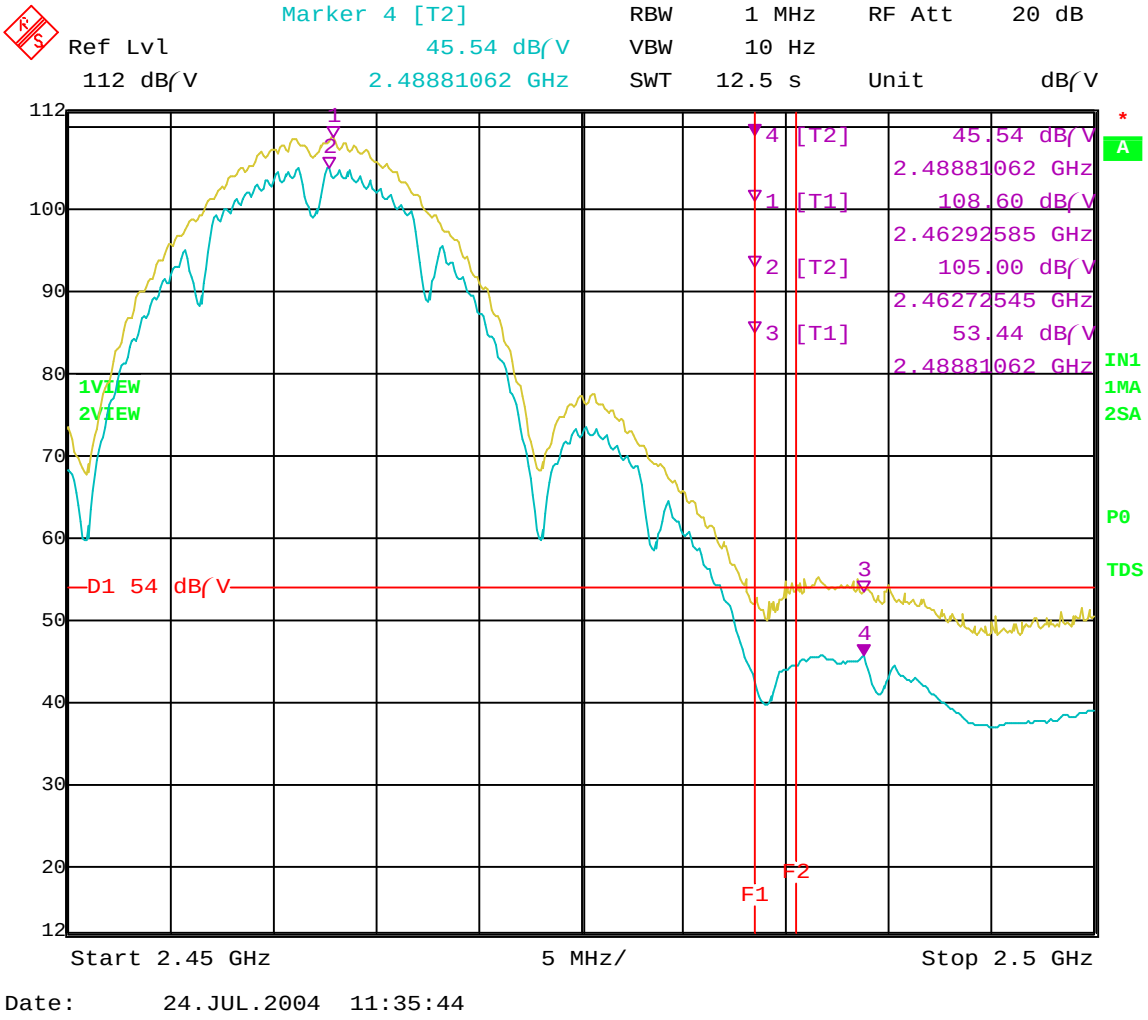
Band Edge – Channel 1 – Vertical Polarization – 802.11 b Mode



Band Edge – Channel 1 – Horizontal Polarization – 802.11 b Mode



Band Edge – Channel 11 – Vertical Polarization – 802.11 b Mode



Band Edge – Channel 11 – Horizontal Polarization – 802.11 b Mode

FCC 15.247

Intel Corporation — Date: 07/26/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X

Model: WM3B2915ABG — Tested By: Ben Chavez

Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 1 - 802.11 g Mode **Transmit Mode**

Gain : 19.5 (99%) Pk. Pwr.: 24.25 dBm (100%) Pk. Pwr.: 25.68 dBm Avg. Power: 18.26 dBm

Channel 6 - 802.11 g Mode **Transmit Mode**

Gain : 19.0 (99%) Pk. Pwr.: 24.17 dBm (100%) Pk. Pwr.: 25.55 dBm Avg. Power: 18.26 dBm

Channel 11 - 802.11 g Mode **Transmit Mode**

Gain : 20.0 (99%) Pk. Pwr.: 24.11 dBm (100%) Pk. Pwr.: 25.50 dBm Avg. Power: 18.31 dBm

Transmit Mode

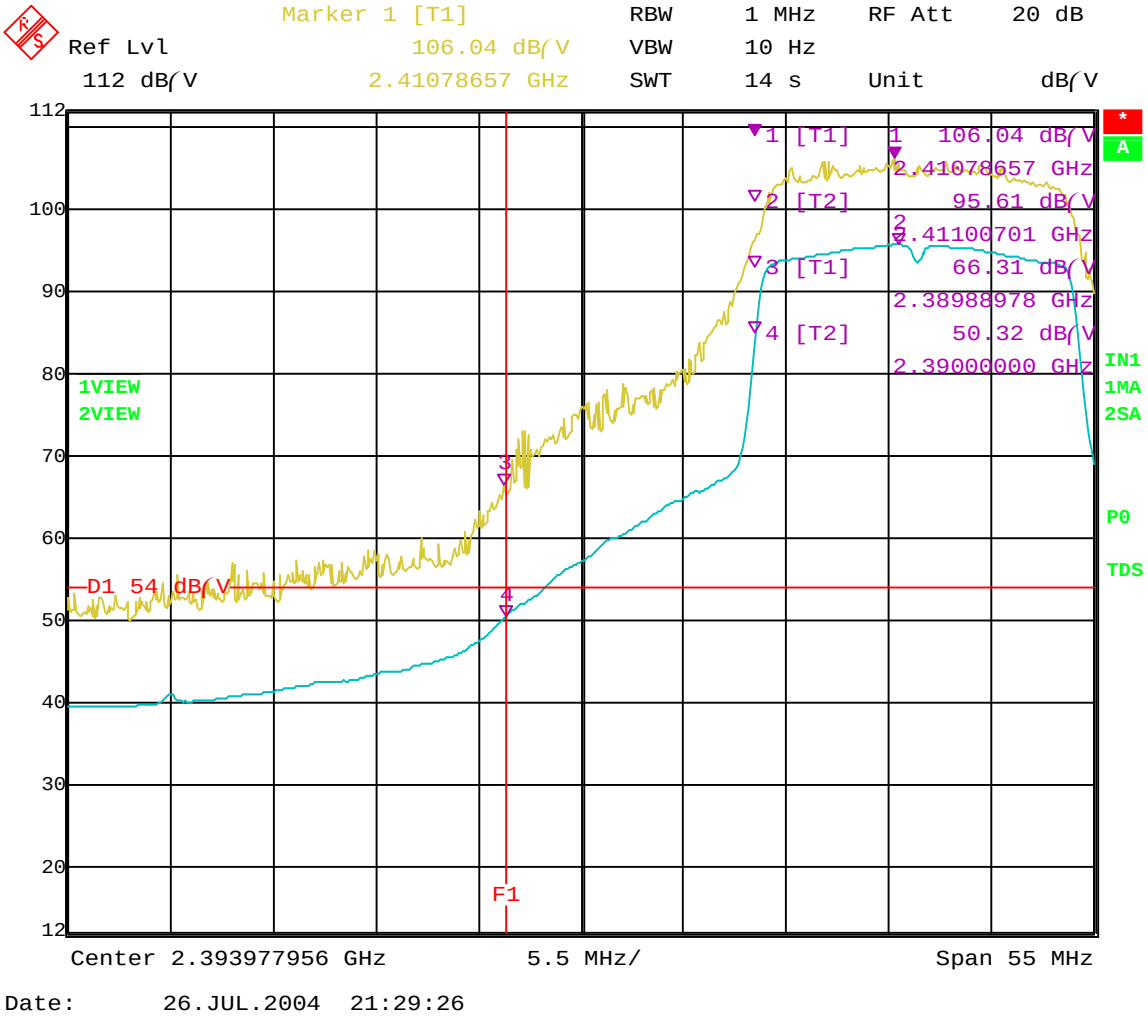
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	106.04	V	--	--	Peak	2.75	270	Fundamental of Channel 1
2412	95.61	V	--	--	Avg	2.75	270	@ 3 meters
2390	66.31	V	74	-7.69	Peak	2.75	270	
2390	50.32	V	54	-3.68	Avg	2.75	270	
2437	107.25	V	--	--	Peak	1.5	225	Fundamental of Channel 6
2437	96.89	V	--	--	Avg	1.5	225	@ 3 meters
2462	107.5	V	--	--	Peak	1.5	225	Fundamental of Channel 11
2462	97.12	V	--	--	Avg	1.5	225	@ 3 meters
2483.5	69.95	V	74	-4.05	Peak	1.5	225	
2483.5	52.05	V	54	-1.95	Avg	1.5	225	
2485.5	62.92	V	74	-11.08	Peak	1.5	225	
2485.5	47.4	V	54	-6.6	Avg	1.5	225	

FCC 15.247

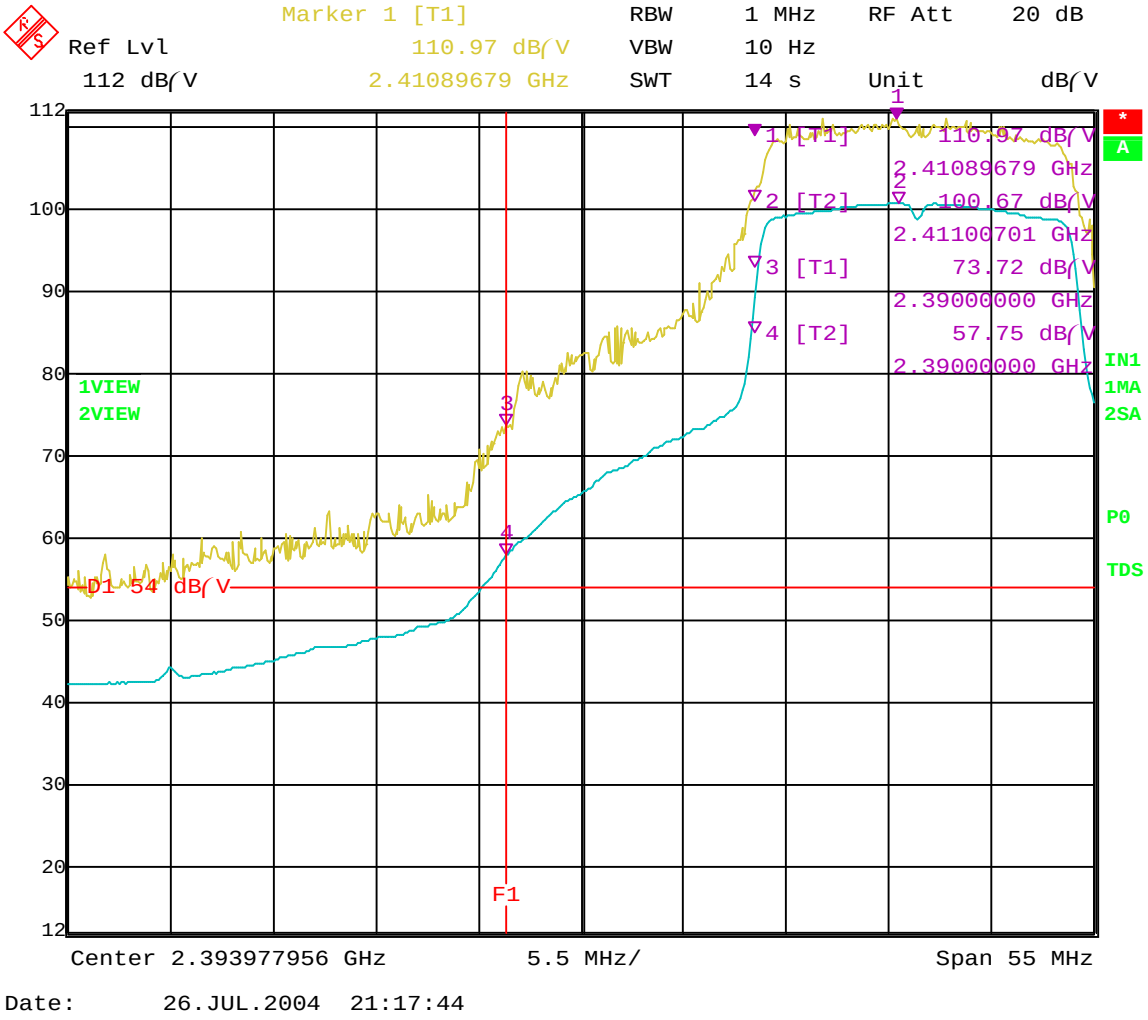
Intel Corporation — Date: 07/26/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: X
Model: WM3B2915ABG — Tested By: Ben Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 1 - 802.11 g Mode **Transmit Mode**
Gain : 19.5 (99%) Pk. Pwr.: 24.25 dBm (100%) Pk. Pwr.: 25.68 dBm Avg. Power: 18.26 dBm
Channel 6 - 802.11 g Mode **Transmit Mode**
Gain : 19.0 (99%) Pk. Pwr.: 24.17 dBm (100%) Pk. Pwr.: 25.55 dBm Avg. Power: 18.26 dBm
Channel 11 - 802.11 g Mode **Transmit Mode**
Gain : 20.0 (99%) Pk. Pwr.: 24.11 dBm (100%) Pk. Pwr.: 25.50 dBm Avg. Power: 18.31 dBm
Transmit Mode

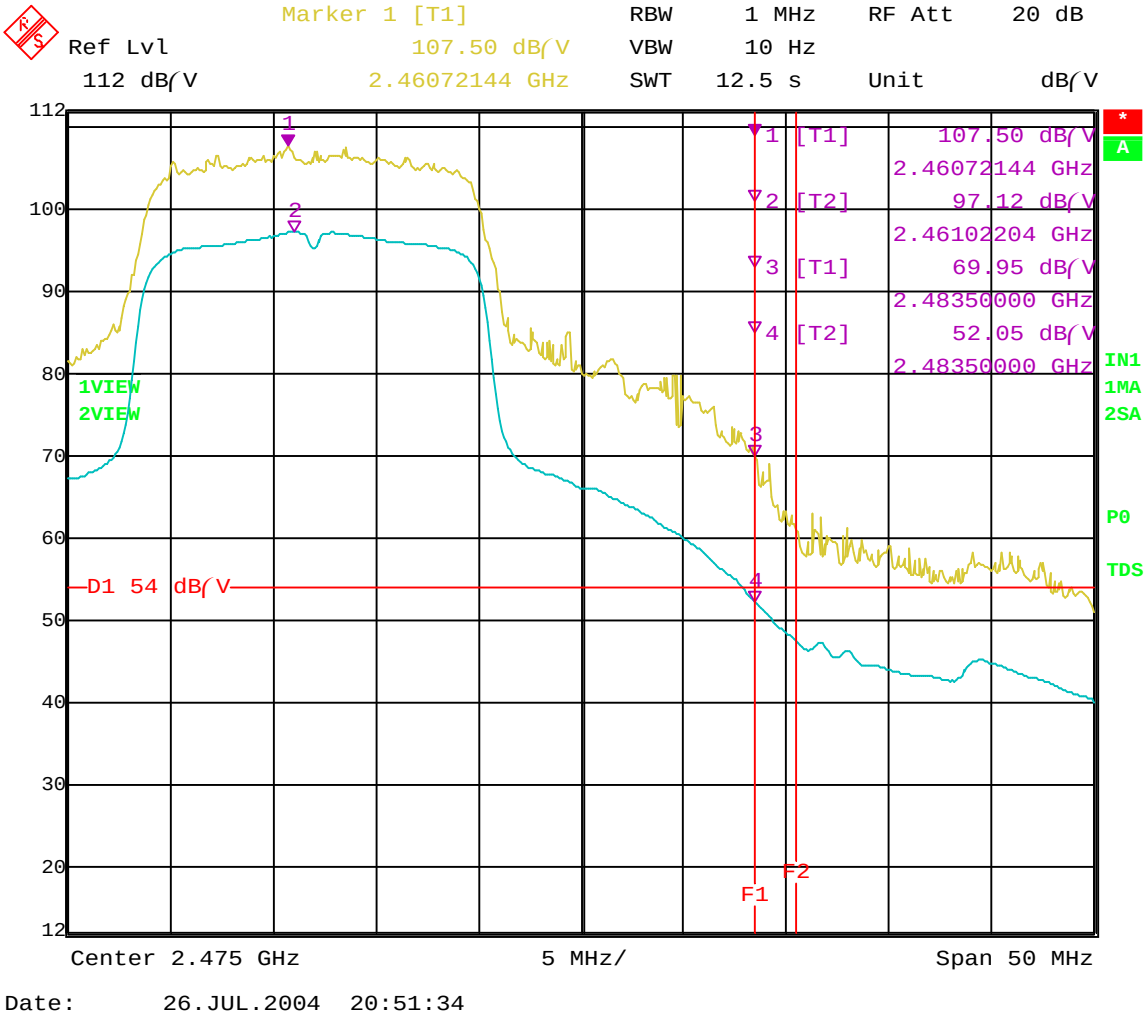
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	110.97	H	--	--	Peak	1.25	225	Fundamental of Channel 1
2412	100.67	H	--	--	Avg	1.25	225	@ 3 meters
2390	73.72	H	74	-0.28	Peak	1.25	225	**No** Marker Delta Method
2390	**57.75**	H	54	**3.75**	Avg	1.25	225	Method Used
2390	64.84	H	74	-9.16	Peak			**With** Marker Delta Method
2390	53.15	H	54	-0.85	Avg			Method Used
2437	109.17	H	--	--	Peak	1	225	Fundamental of Channel 6
2437	98.95	H	--	--	Avg	1	225	@ 3 meters
2462	107.77	H	--	--	Peak	2.25	0	Fundamental of Channel 11
2462	97.7	H	--	--	Avg	2.25	0	@ 3 meters
2483.5	70.01	H	74	-3.99	Peak	2.25	0	
2483.5	52.74	H	54	-1.26	Peak	2.25	0	
2485.5	63	H	74	-11	Peak	2.25	0	
2485.5	47.99	H	54	-6.01	Peak	2.25	0	



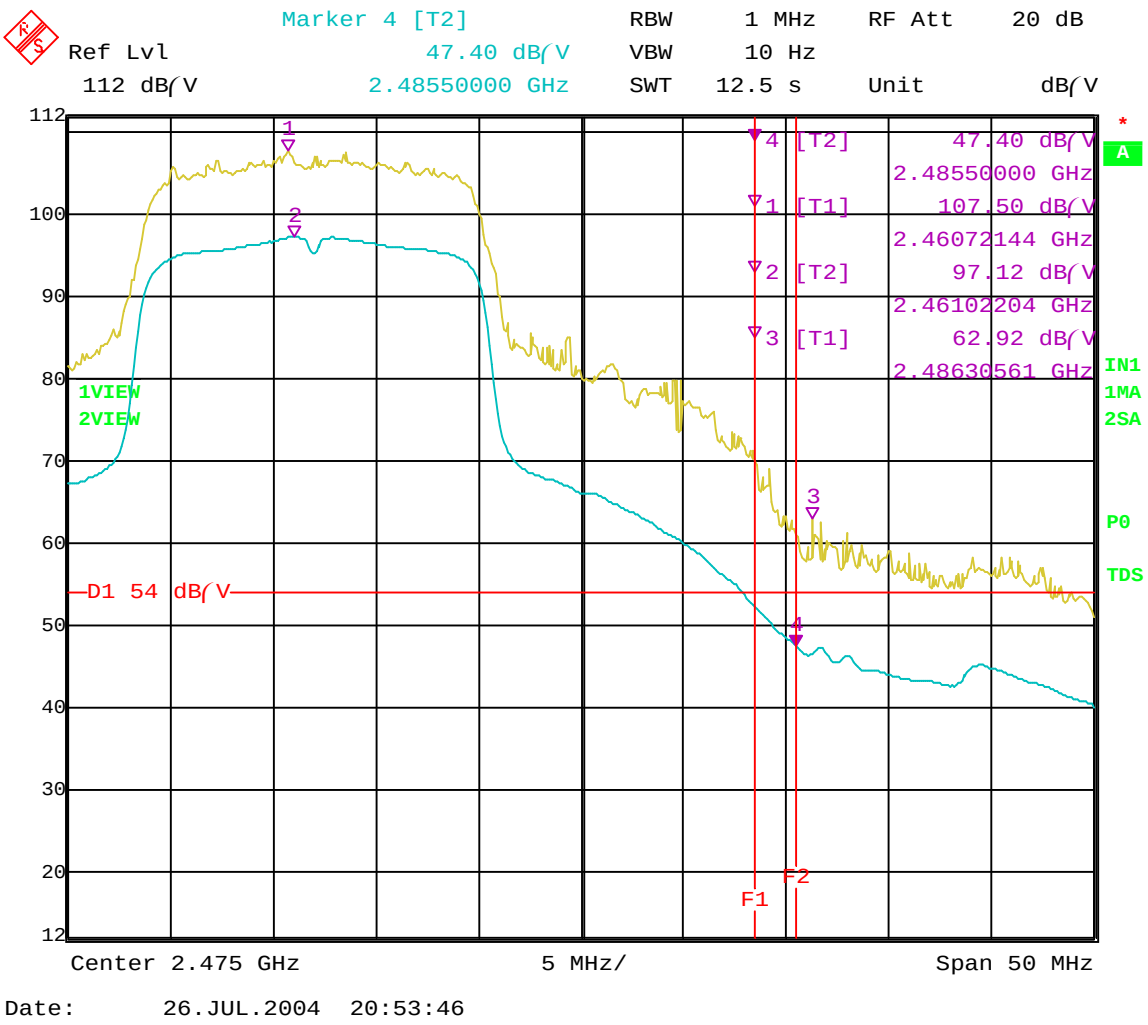
Band Edge – Channel 1 – Vertical Polarization – 802.11 g Mode



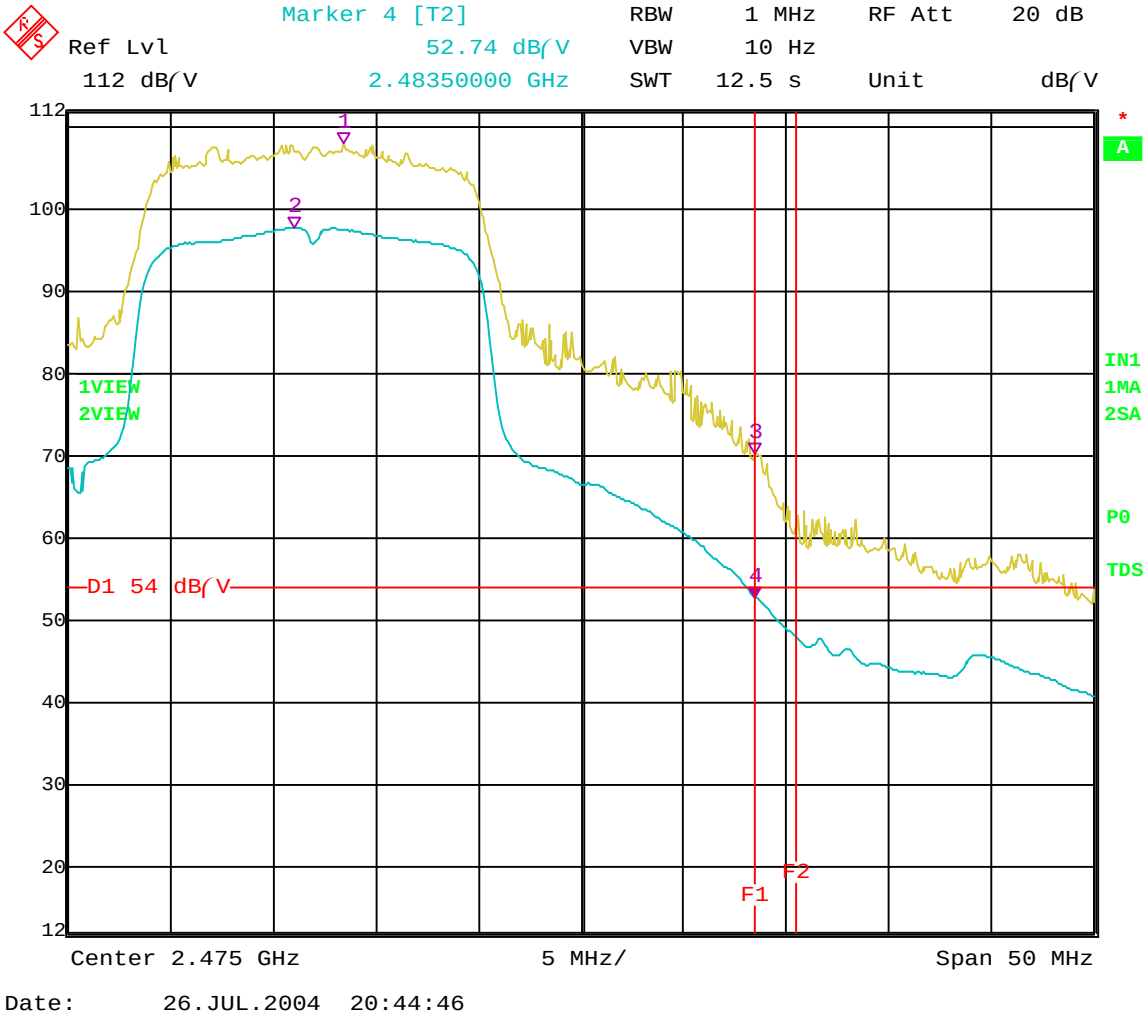
Band Edge – Channel 1 – Horizontal Polarization – 802.11 g Mode



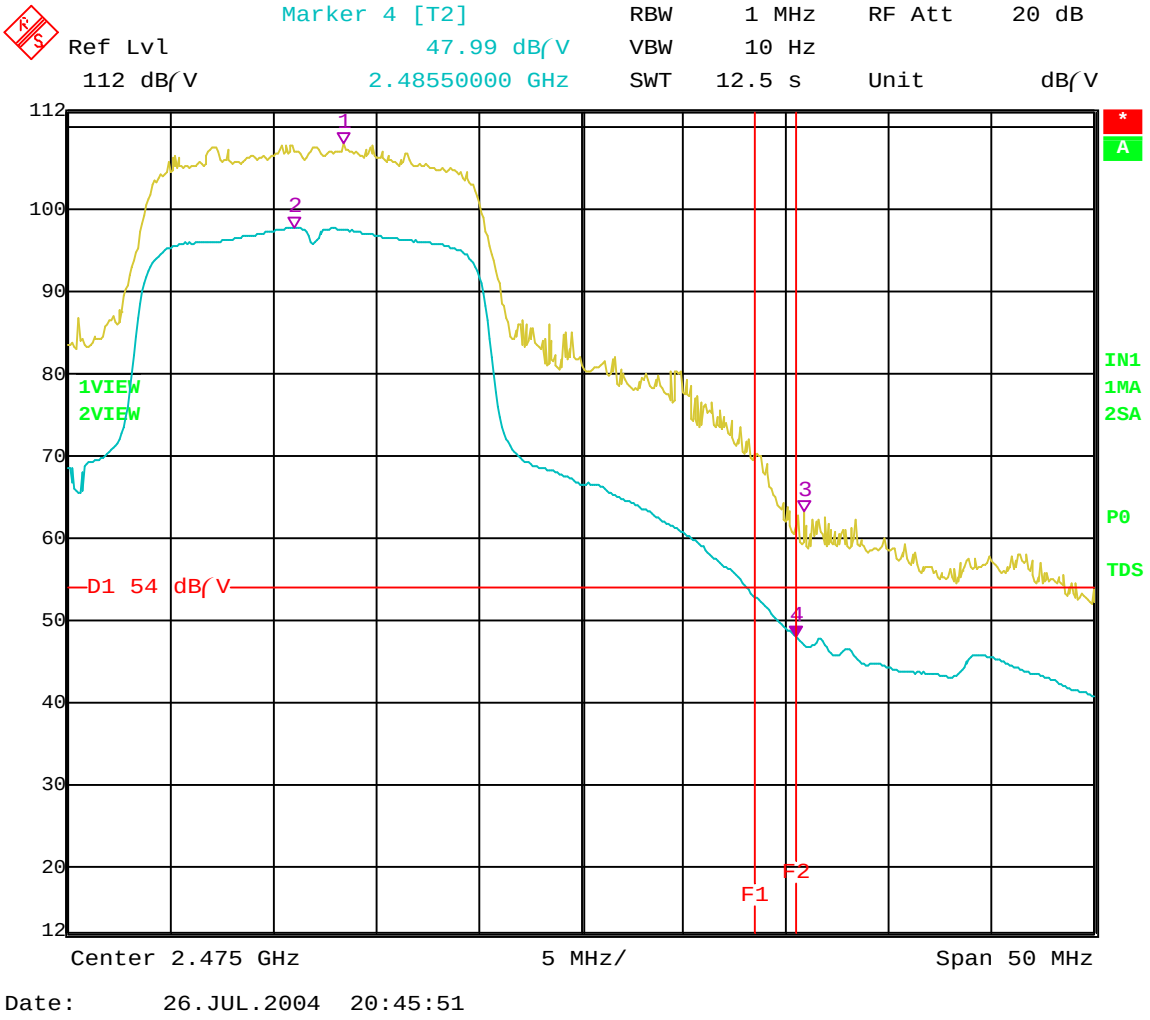
Band Edge – Channel 11 – Vertical Polarization – 802.11 g Mode Plot 1



Band Edge – Channel 11 – Vertical Polarization – 802.11 g Mode Plot 2



Band Edge – Channel 11 – Horizontal Polarization – 802.11 g Mode Plot 1



Band Edge – Channel 11 – Horizontal Polarization – 802.11 g Mode Plot 2

FCC 15.247

Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: B
Model: WM3B2195ABG — Tested By: Benigno Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 149 - 802.11 a Mode **Transmit Mode**
Gain : 17.0 (99%) Pk. Pwr.: 21.74 dBm (100%) Pk. Pwr.: 22.37 dBm Avg. Power: 17.21 dBm
Channel 157 - 802.11 a Mode **Transmit Mode**
Gain : 17.0 (99%) Pk. Pwr.: 21.79 dBm (100%) Pk. Pwr.: 22.41 dBm Avg. Power: 17.45 dBm
Channel 165 - 802.11 a Mode **Transmit Mode**
Gain : 18.0 (99%) Pk. Pwr.: 21.65 dBm (100%) Pk. Pwr.: 22.29 dBm Avg. Power: 17.25 dBm

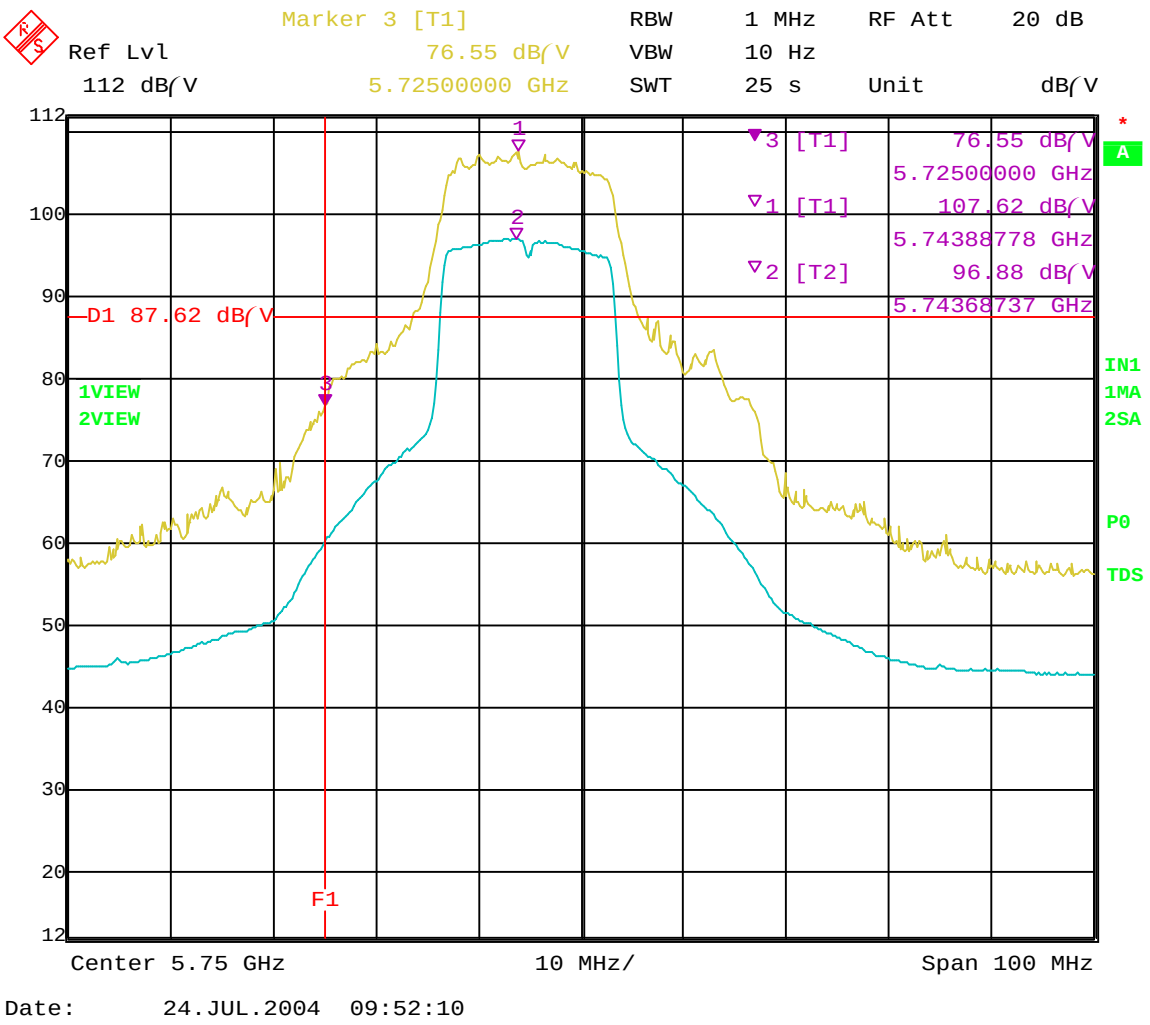
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5745	107.62	V	--	--	Peak	2.25	180	Fundamental of Channel 149
5745	96.88	V	--	--	Avg	2.25	180	@ 3 meters
5785	106.8	V	--	--	Peak	2.29	180	Fundamental of Channel 157
5785	96.27	V	--	--	Avg	2.29	180	@ 3 meters
5825	107.18	V	--	--	Peak	1.77	180	Fundamental of Channel 165
5825	97.04	V	--	--	Avg	1.77	180	@ 3 meters

FCC 15.247

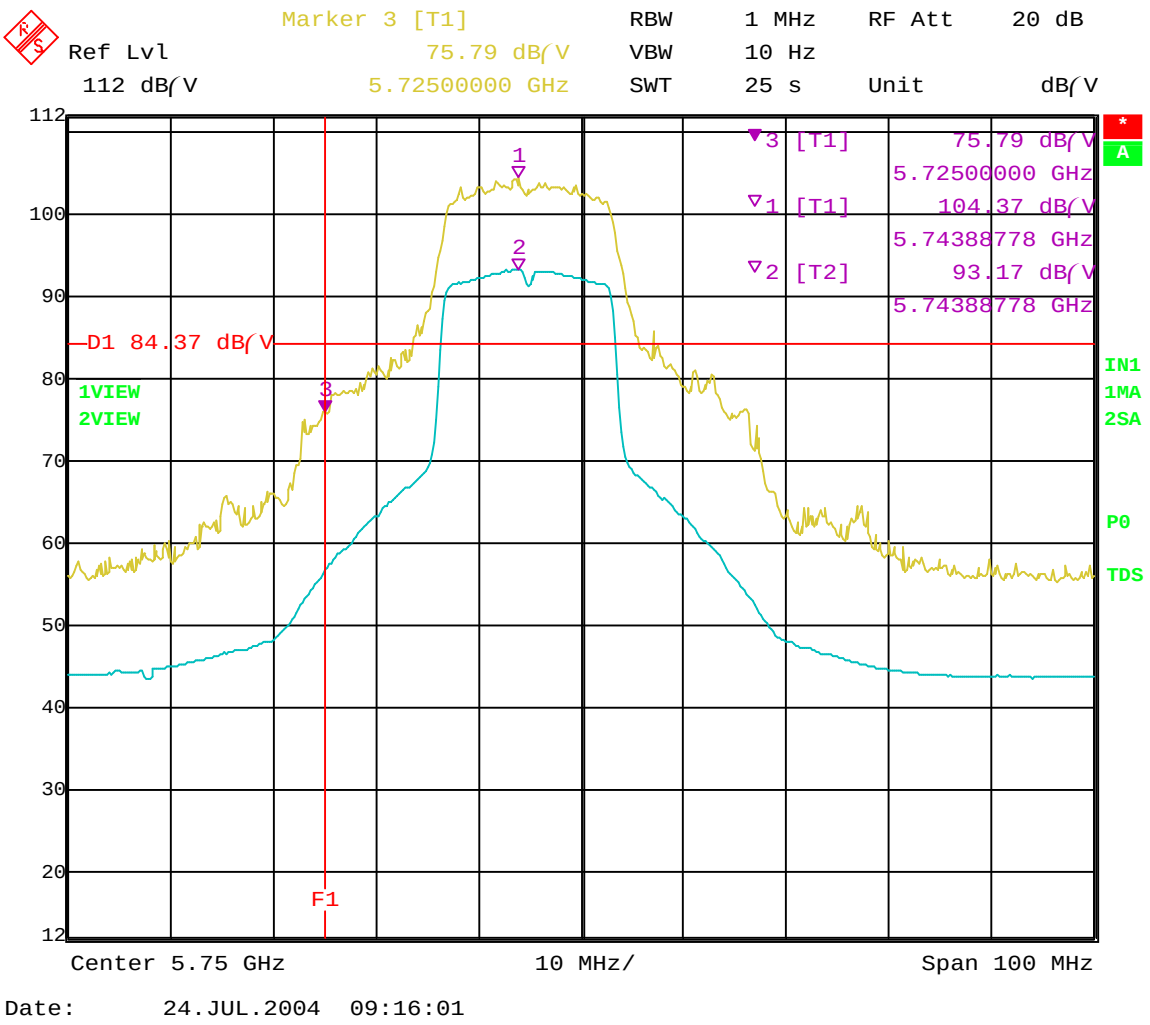
Intel Corporation — Date: 07/23/04
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter — Lab: B
Model: WM3B2195ABG — Tested By: Benigno Chavez
Configuration: Hewlett Packard Laptop Agency Series Number: SI1

Channel 149 - 802.11 a Mode **Transmit Mode**
Gain : 17.0 (99%) Pk. Pwr.: 21.74 dBm (100%) Pk. Pwr.: 22.37 dBm Avg. Power: 17.21 dBm
Channel 157 - 802.11 a Mode **Transmit Mode**
Gain : 17.0 (99%) Pk. Pwr.: 21.79 dBm (100%) Pk. Pwr.: 22.41 dBm Avg. Power: 17.45 dBm
Channel 165 - 802.11 a Mode **Transmit Mode**
Gain : 18.0 (99%) Pk. Pwr.: 21.65 dBm (100%) Pk. Pwr.: 22.29 dBm Avg. Power: 17.25 dBm

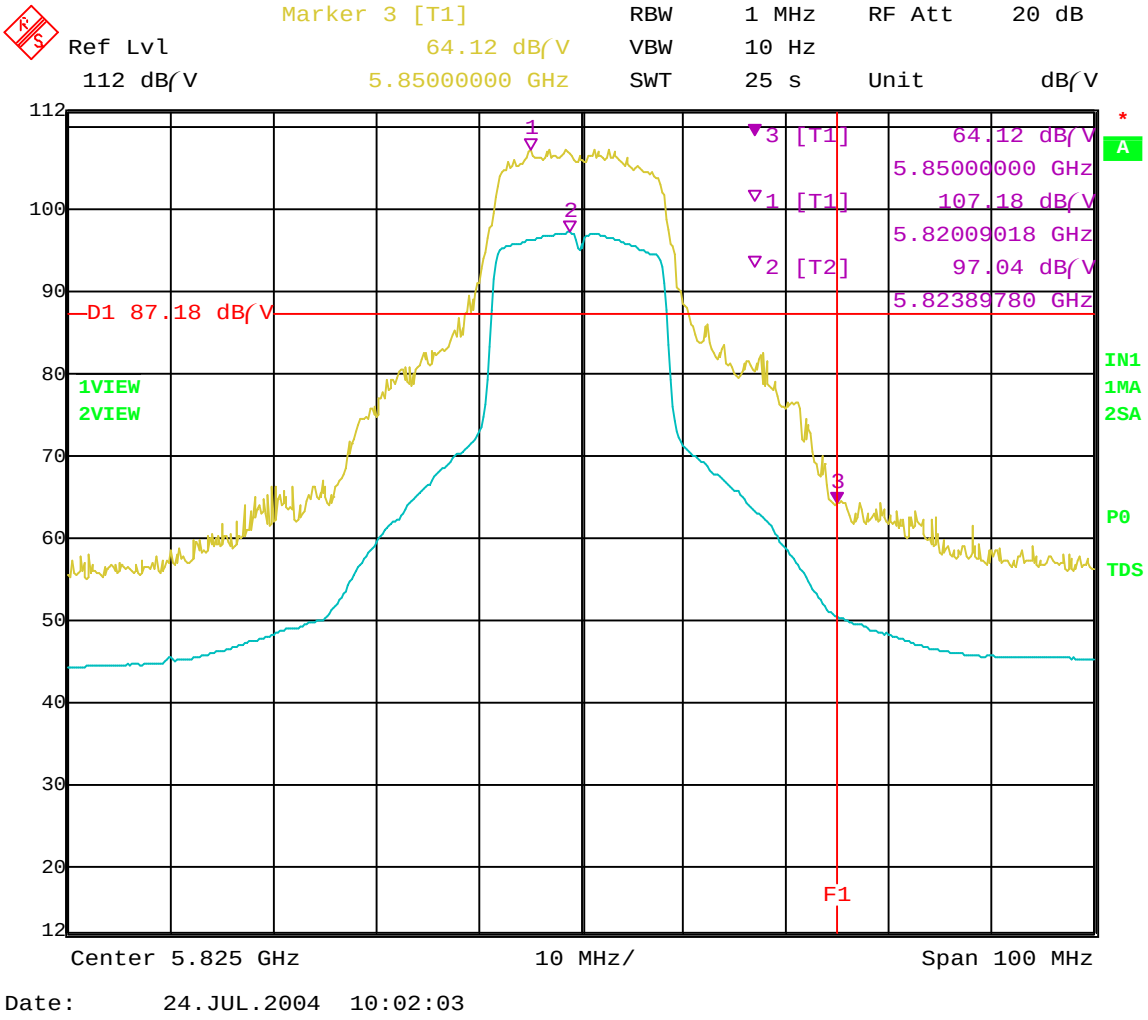
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5745	104.37	H	--	--	Peak	2.85	180	Fundamental of Channel 149
5745	93.17	H	--	--	Avg	2.85	180	@ 3 meters
5785	104.03	H	--	--	Peak	1.86	315	Fundamental of Channel 157
5785	93.57	H	--	--	Avg	1.86	315	@ 3 meters
5825	103.28	H	--	--	Peak	1.86	0	Fundamental of Channel 165
5825	92.84	H	--	--	Avg	1.86	0	@ 3 meters



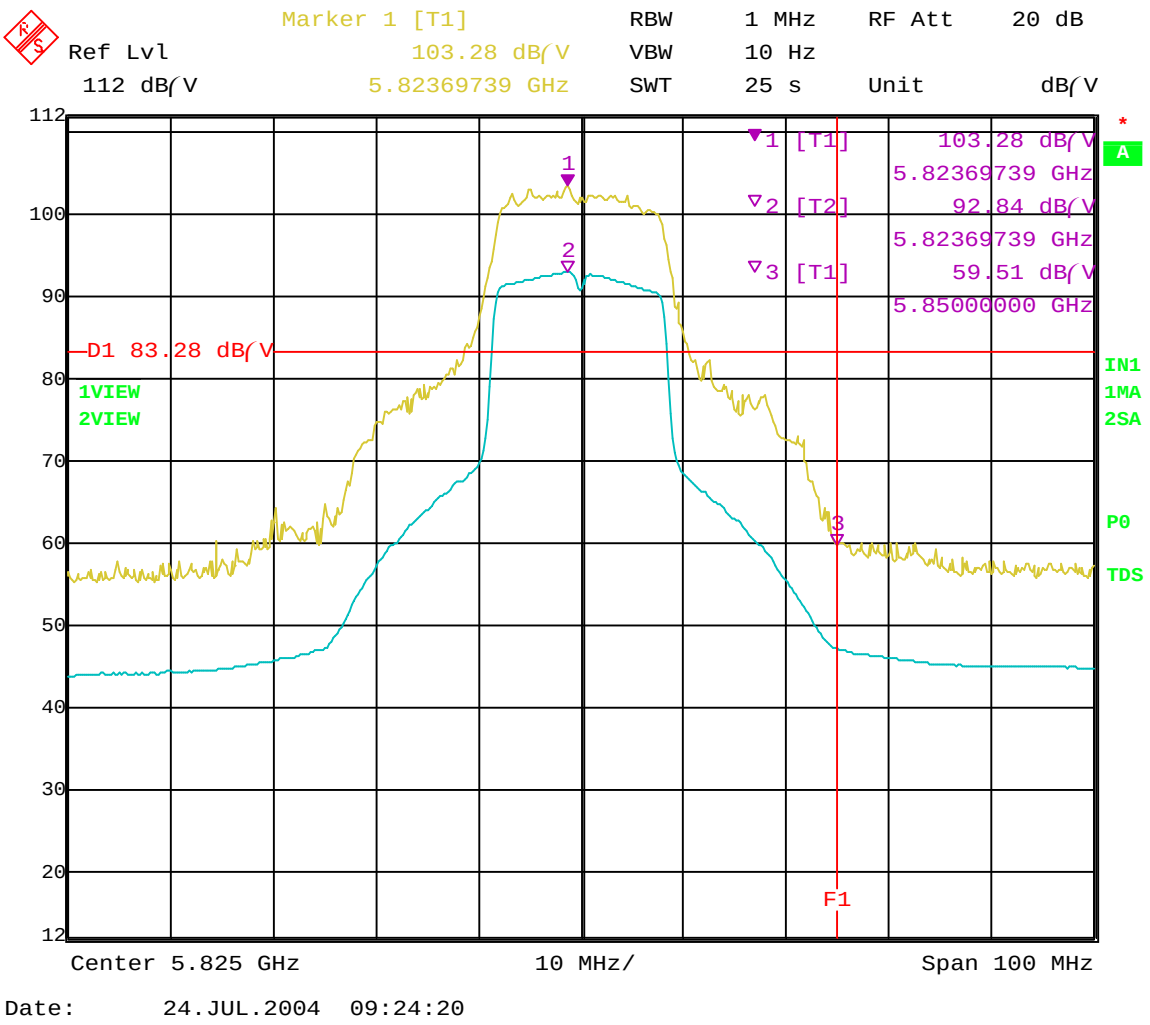
Band Edge – Channel 149 – Vertical Polarization – 802.11 a Mode



Band Edge – Channel 149 – Horizontal Polarization – 802.11 a Mode



Band Edge – Channel 165 – Vertical Polarization – 802.11 a Mode



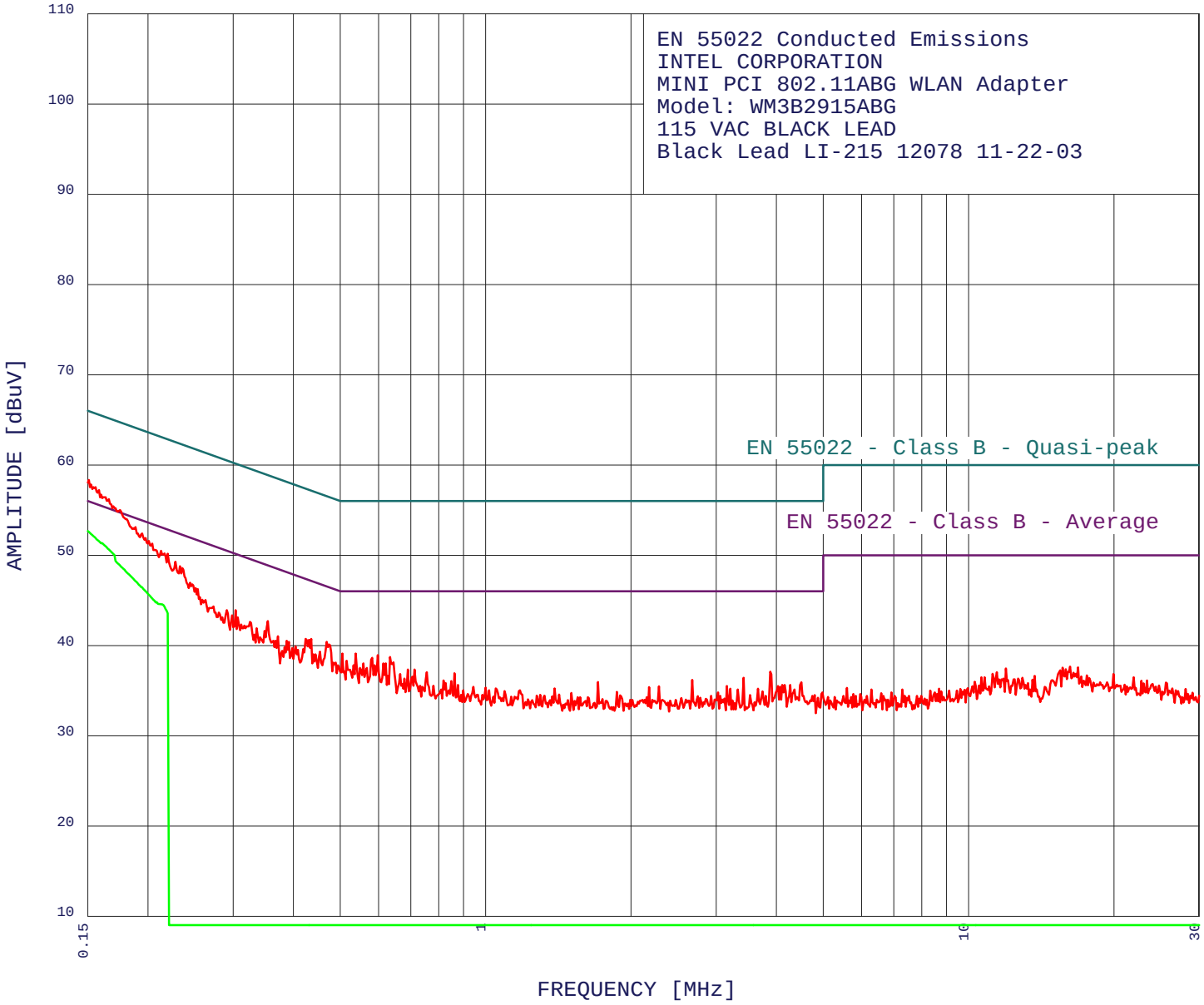
Band Edge – Channel 165 – Horizontal Polarization – 802.11 a Mode

CONDUCTED EMISSIONS

DATA SHEETS

EMISSION LEVEL [dBuV] PEAK 7/27/2004 22:19:33

Graph for Peak & Average



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

7/27/2004 22:19:33

EN 55022 Conducted Emissions
INTEL CORPORATION
Mini PCI 802.11ABG WLAN Adapter
Model: WM3B2915ABG
115 VAC BLACK LEAD
Black Lead LI-215 12078 11-22-03
TEST ENGINEER : BENIGNO CHAVEZ

48 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.151	58.33	55.95	2.38**
2	0.152	57.83	55.86	1.97**
3	0.154	57.53	55.78	1.75**
4	0.158	57.23	55.56	1.67**
5	0.160	56.72	55.47	1.25**
6	0.166	56.22	55.16	1.06**
7	0.170	55.42	54.98	0.43**
8	0.175	55.01	54.72	0.29**
9	0.188	53.10	54.10	-1.00**
10	0.195	52.40	53.84	-1.44**
11	0.198	51.89	53.71	-1.82**
12	0.201	51.59	53.58	-1.98**
13	0.204	51.29	53.44	-2.15**
14	0.213	50.48	53.09	-2.61**
15	0.220	50.18	52.83	-2.65**
16	0.228	49.27	52.52	-3.25
17	0.233	48.77	52.34	-3.58
18	0.235	48.56	52.25	-3.69
19	0.244	46.96	51.95	-4.99
20	0.247	46.76	51.86	-5.10
21	0.251	46.35	51.73	-5.37
22	0.254	46.25	51.64	-5.39
23	0.469	40.41	46.53	-6.12
24	0.354	42.71	48.87	-6.16
25	0.256	45.35	51.55	-6.20
26	0.304	43.91	50.14	-6.23
27	0.263	45.04	51.33	-6.29
28	0.474	40.11	46.45	-6.34
29	0.259	45.05	51.47	-6.42
30	0.435	40.71	47.15	-6.44
31	0.291	43.92	50.49	-6.57
32	0.431	40.61	47.24	-6.63
33	0.424	40.71	47.37	-6.66
34	0.273	44.33	51.02	-6.69
35	0.538	39.11	46.00	-6.89
36	0.505	39.11	46.00	-6.89
37	0.307	43.11	50.05	-6.95
38	0.299	43.31	50.28	-6.96
39	0.325	42.61	49.57	-6.97
40	0.598	38.92	46.00	-7.08
41	0.280	43.63	50.81	-7.18
42	0.634	38.72	46.00	-7.28
43	0.583	38.62	46.00	-7.38
44	0.348	41.61	49.00	-7.39
45	0.336	41.91	49.31	-7.40
46	0.371	41.01	48.47	-7.46
47	0.454	39.31	46.80	-7.49
48	0.285	43.13	50.67	-7.55

** Please See the Average Readings on the Next Page and on the Plot

COMPATIBLE ELECTRONICS

7/27/2004 22:19:33

EN 55022 Conducted Emissions
INTEL CORPORATION
Mini PCI 802.11ABG WLAN Adapter
Model: WM3B2915ABG
115 VAC BLACK LEAD
Black Lead LI-215 12078 11-22-03
TEST ENGINEER : BENIGNO CHAVEZ

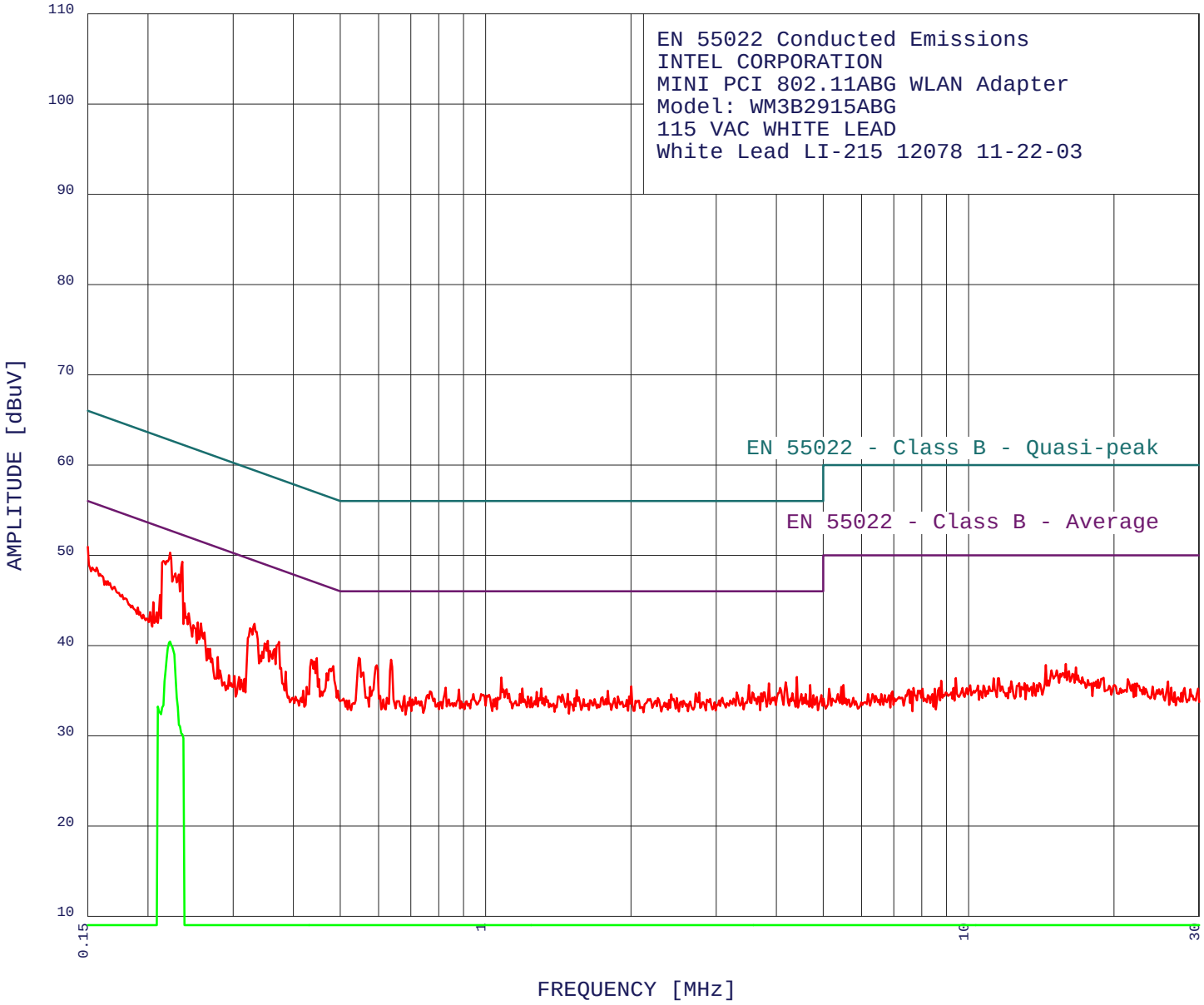
---

3 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.161	51.35	55.43	-4.07
2	0.214	44.57	53.05	-8.48
3	0.208	44.79	53.27	-8.48

EMISSION LEVEL [dBuV] PEAK 7/27/2004 22:30:50

Graph for Peak & Average



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

7/27/2004 22:30:50

EN 55022 Conducted Emissions
INTEL CORPORATION
MINI PCI 802.11ABG WLAN Adapter
Model: WM3B2915ABG
115 VAC WHITE LEAD
White Lead LI-215 12078 11-22-03
TEST ENGINEER : BENIGNO CHAVEZ

48 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.222	50.27	52.74	-2.46**
2	0.235	49.26	52.25	-2.99**
3	0.332	42.41	49.39	-6.99
4	0.547	38.61	46.00	-7.39
5	0.238	44.66	52.17	-7.50
6	0.212	45.58	53.14	-7.56**
7	0.637	38.42	46.00	-7.58
8	0.373	40.41	48.43	-8.02
9	0.595	37.82	46.00	-8.18
10	0.447	38.61	46.93	-8.32
11	0.354	40.51	48.87	-8.36
12	0.243	43.56	52.00	-8.44
13	0.484	37.71	46.27	-8.56
14	0.205	44.79	53.40	-8.61
15	0.435	38.41	47.15	-8.74
16	0.365	39.61	48.61	-9.00
17	0.258	42.45	51.51	-9.06
18	0.254	42.55	51.64	-9.09
19	4.408	36.51	46.00	-9.49
20	0.248	42.25	51.82	-9.56
21	1.077	36.43	46.00	-9.57
22	0.208	43.69	53.27	-9.58
23	0.202	43.69	53.53	-9.84
24	4.182	35.91	46.00	-10.09
25	3.862	35.81	46.00	-10.19
26	4.696	35.61	46.00	-10.39
27	3.511	35.61	46.00	-10.39
28	2.002	35.46	46.00	-10.54
29	0.826	35.32	46.00	-10.68
30	4.071	35.31	46.00	-10.69
31	1.304	35.24	46.00	-10.76
32	1.191	35.24	46.00	-10.76
33	0.881	35.13	46.00	-10.87
34	1.544	35.05	46.00	-10.95
35	1.790	34.96	46.00	-11.04
36	0.385	37.11	48.16	-11.05
37	0.767	34.92	46.00	-11.08
38	1.276	34.84	46.00	-11.16
39	3.781	34.81	46.00	-11.19
40	3.565	34.81	46.00	-11.19
41	3.311	34.81	46.00	-11.19
42	2.766	34.79	46.00	-11.21
43	4.316	34.71	46.00	-11.29
44	1.480	34.65	46.00	-11.35
45	0.979	34.63	46.00	-11.37
46	0.944	34.63	46.00	-11.37
47	4.600	34.61	46.00	-11.39
48	4.504	34.61	46.00	-11.39

** Please See the Average Readings on the Next Page and on the Plot

COMPATIBLE ELECTRONICS

7/27/2004 22:30:50

EN 55022 Conducted Emissions
INTEL CORPORATION
MINI PCI 802.11ABG WLAN Adapter
Model: WM3B2915ABG
115 VAC WHITE LEAD
White Lead LI-215 12078 11-22-03
TEST ENGINEER : BENIGNO CHAVEZ

---

2 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.222	40.41	52.74	-12.32
2	0.210	33.22	53.23	-20.00
