

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.247

Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

With Hitachi Antenna**Channel 1 - 802.11 b Mode**

Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Transmit Mode

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	35.12	V	74	-38.88	Peak	1.96	225	
4824	25.81	V	54	-28.19	Avg	1.96	225	
7236	39.76	V	74	-34.24	Peak	1.96	135	
7236	26.48	V	54	-27.52	Avg	1.96	135	
9648	52.22	V	--	--	Peak	2.48	225	Not in Restricted Band
9648	47.18	V	--	--	Avg	2.48	225	Not in Restricted Band
12060	45.34	V	74	-28.66	Peak	2.48	180	
12060	32.29	V	54	-21.71	Avg	2.48	180	
14472	47.8	V	74	-26.2	Peak	2.48	270	
14472	35.88	V	54	-18.12	Avg	2.48	270	
16884	47.85	V	--	--	Peak	1.89	225	Not in Restricted Band
16884	35.06	V	--	--	Avg	1.89	225	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

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 1 - 802.11 b Mode**

Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	38.33	H	74	-35.67	Peak	2.91	225	
4824	27.31	H	54	-26.69	Avg	2.91	225	
7236	39.96	H	74	-34.04	Peak	2.06	315	
7236	27.2	H	54	-26.8	Avg	2.06	315	
9648	53.58	H	--	--	Peak	2.2	270	Not in Restricted Band
9648	49.28	H	--	--	Avg	2.2	270	Not in Restricted Band
12060	45.37	H	74	-28.63	Peak	2.28	270	
12060	32.13	H	54	-21.87	Avg	2.28	270	
14472	48.67	H	74	-25.33	Peak	2.18	225	
14472	36.41	H	54	-17.59	Avg	2.18	225	
16884	48.17	H	--	--	Peak	2.18	225	Not in Restricted Band
16884	34.57	H	--	--	Avg	2.18	225	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

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 6 - 802.11 b Mode**

Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	40.03	V	74	-33.97	Peak	2.22	270	
4874	29.24	V	54	-24.76	Avg	2.22	270	
7311	40.3	V	74	-33.7	Peak	2.23	225	
7311	26.6	V	54	-27.4	Avg	2.23	225	
9748	52.47	V	--	--	Peak	2.23	180	Not in Restricted Band
9748	46.44	V	--	--	Avg	2.23	180	Not in Restricted Band
12185	45.73	V	74	-28.27	Peak	1.86	225	
12185	32.06	V	54	-21.94	Avg	1.86	225	
14622	47.59	V	--	--	Peak	1.86	225	Not in Restricted Band
14622	34.6	V	--	--	Avg	1.86	225	Not in Restricted Band
17059	49.86	V	--	--	Peak	1.86	270	Not in Restricted Band
17059	36.25	V	--	--	Avg	1.86	270	Not in Restricted Band
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: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Lab: B

Model: WM3B2200BG

Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

With Hitachi Antenna**Channel 6 - 802.11 b Mode**

Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	41.06	H	74	-32.94	Peak	2.17	0	
4874	28.72	H	54	-25.28	Avg	2.17	0	
7311	39.44	H	74	-34.56	Peak	2.17	0	
7311	27.1	H	54	-26.9	Avg	2.17	0	
9748	52.01	H	--	--	Peak	2.17	270	Not in Restricted Band
9748	45.74	H	--	--	Avg	2.17	270	Not in Restricted Band
12185	46.48	H	74	-27.52	Peak	2.49	225	
12185	32.24	H	54	-21.76	Avg	2.49	225	
14622	48.4	H	--	--	Peak	2.49	270	Not in Restricted Band
14622	35.13	H	--	--	Avg	2.49	270	Not in Restricted Band
17059		H	--	--	Peak			Not in Restricted Band
17059		H	--	--	Avg			Not in Restricted Band
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

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Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 11 - 802.11 b Mode**

Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	41.84	V	74	-32.16	Peak	2.46	225	
4924	33.51	V	54	-20.49	Avg	2.46	225	
7386	40.94	V	74	-33.06	Peak	1.98	0	
7386	25.46	V	54	-28.54	Avg	1.98	0	
9848	53.55	V	--	--	Peak	2.09	225	Not in Restricted Band
9848	49.14	V	--	--	Avg	2.09	225	Not in Restricted Band
12310	44.17	V	74	-29.83	Peak	1.52	180	
12310	31.23	V	54	-22.77	Avg	1.52	180	
14772	48.73	V	--	--	Peak	1.85	225	Not in Restricted Band
14772	36.07	V	--	--	Avg	1.85	225	Not in Restricted Band
17234	48.99	V	--	--	Peak	1.61	315	Not in Restricted Band
17234	35.77	V	--	--	Avg	1.61	315	Not in Restricted Band
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

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Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 11 - 802.11 b Mode**

Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	36.09	H	74	-37.91	Peak	1.22	225	
4924	24.24	H	54	-29.76	Avg	1.22	225	
7386	40.63	H	74	-33.37	Peak	1.87	225	
7386	26.08	H	54	-27.92	Avg	1.87	225	
9848	54.54	H	--	--	Peak	2.51	270	Not in Restricted Band
9848	50.33	H	--	--	Avg	2.51	270	Not in Restricted Band
12310	44.4	H	74	-29.6	Peak	1.82	225	
12310	31.84	H	54	-22.16	Avg	1.82	225	
14772	51.32	H	--	--	Peak	1.82	225	Not in Restricted Band
14772	35.82	H	--	--	Avg	1.82	225	Not in Restricted Band
17234	48.81	H	--	--	Peak	1.82	225	Not in Restricted Band
17234	35.87	H	--	--	Avg	1.82	225	Not in Restricted Band
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

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Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

With Hitachi Antenna**Channel 1 - 802.11 g Mode**

Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm

Transmit Mode

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	35.65	V	74	-38.35	Peak	1.61	45	
4824	22.42	V	54	-31.58	Avg	1.61	45	
7236	39.65	V	74	-34.35	Peak	1.61	0	
7236	26.12	V	54	-27.88	Avg	1.61	0	
9648	45	V	--	--	Peak	1.42	225	Not in Restricted Band
9648	32	V	--	--	Avg	1.42	225	Not in Restricted Band
12060	46.33	V	74	-27.67	Peak	1.32	0	
12060	31.56	V	54	-22.44	Avg	1.32	0	
14472	50.45	V	74	-23.55	Peak	1.98	270	
14472	35.75	V	54	-18.25	Avg	1.98	270	
16884	47.78	V	--	--	Peak	1.98	0	Not in Restricted Band
16884	35.07	V	--	--	Avg	1.98	0	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

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 1 - 802.11 g Mode**

Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	35.49	H	74	-38.51	Peak	2.52	270	
4824	22	H	54	-32	Avg	2.52	270	
7236	40.82	H	74	-33.18	Peak	2.03	180	
7236	26.38	H	54	-27.62	Avg	2.03	180	
9648	44.79	H	--	--	Peak	1.79	45	Not in Restricted Band
9648	32.01	H	--	--	Avg	1.79	45	Not in Restricted Band
12060	45.44	H	74	-28.56	Peak	2.15	225	
12060	32.07	H	54	-21.93	Avg	2.15	225	
14472	48.89	H	74	-25.11	Peak	2.15	135	
14472	35.89	H	54	-18.11	Avg	2.15	135	
16884	48.14	H	--	--	Peak	1.89	270	Not in Restricted Band
16884	35.42	H	--	--	Avg	1.89	270	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

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 6 - 802.11 g Mode**

Gain : 24.0 Peak Power: 16.62 dBm Avg. Power: 9.93 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	34.49	V	74	-39.51	Peak	2	225	
4874	21.66	V	54	-32.34	Avg	2	225	
7311	38.67	V	74	-35.33	Peak	2.59	315	
7311	26.11	V	54	-27.89	Avg	2.59	315	
9748	44.45	V	--	--	Peak	2.49	270	Not in Restricted Band
9748	31.81	V	--	--	Avg	2.49	270	Not in Restricted Band
12185	44.3	V	74	-29.7	Peak	2.49	135	
12185	31.69	V	54	-22.31	Avg	2.49	135	
14622	49.28	V	--	--	Peak	1.93	45	Not in Restricted Band
14622	33.87	V	--	--	Avg	1.93	45	Not in Restricted Band
17059	49.6	V	--	--	Peak	1.76	225	Not in Restricted Band
17059	35.97	V	--	--	Avg	1.76	225	Not in Restricted Band
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: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Lab: B

Model: WM3B2200BG

Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

With Hitachi Antenna**Channel 6 - 802.11 g Mode**

Gain : 24.0 Peak Power: 16.62 dBm Avg. Power: 9.93 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	36.88	H	74	-37.12	Peak	1.63	180	
4874	22.41	H	54	-31.59	Avg	1.63	180	
7311	39.88	H	74	-34.12	Peak	2.08	225	
7311	27.09	H	54	-26.91	Avg	2.08	225	
9748	43.7	H	--	--	Peak	1.43	180	Not in Restricted Band
9748	31.36	H	--	--	Avg	1.43	180	Not in Restricted Band
12185	44.38	H	74	-29.62	Peak	1.32	225	
12185	32.31	H	54	-21.69	Avg	1.32	225	
14622	47.82	H	--	--	Peak	1.32	45	Not in Restricted Band
14622	34.9	H	--	--	Avg	1.32	45	Not in Restricted Band
17059	48.43	H	--	--	Peak	1.32	180	Not in Restricted Band
17059	36.29	H	--	--	Avg	1.32	180	Not in Restricted Band
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

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 11 - 802.11 g Mode**

Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	35.72	V	74	-38.28	Peak	1.64	315	
4924	22.64	V	54	-31.36	Avg	1.64	315	
7386	38	V	74	-36	Peak	2.26	225	
7386	25.43	V	54	-28.57	Avg	2.26	225	
9848	46	V	--	--	Peak	2.27	270	Not in Restricted Band
9848	34.66	V	--	--	Avg	2.27	270	Not in Restricted Band
12310	42.74	V	74	-31.26	Peak	2.27	270	
12310	30.3	V	54	-23.7	Avg	2.27	270	
14772	49.98	V	--	--	Peak	2.27	180	Not in Restricted Band
14772	35.02	V	--	--	Avg	2.27	180	Not in Restricted Band
17234	49.49	V	--	--	Peak	1.89	315	Not in Restricted Band
17234	36.51	V	--	--	Avg	1.89	315	Not in Restricted Band
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

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 11 - 802.11 g Mode**

Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	36.26	H	74	-37.74	Peak	1.47	225	
4924	22.88	H	54	-31.12	Avg	1.47	225	
7386	37.27	H	74	-36.73	Peak	1.47	180	
7386	25.87	H	54	-28.13	Avg	1.47	180	
9848	45.6	H	--	--	Peak	2.26	225	Not in Restricted Band
9848	31.78	H	--	--	Avg	2.26	225	Not in Restricted Band
12310	44.45	H	74	-29.55	Peak	2.25	225	
12310	31.23	H	54	-22.77	Avg	2.25	225	
14772	49.96	H	--	--	Peak	1.59	180	Not in Restricted Band
14772	35.39	H	--	--	Avg	1.59	180	Not in Restricted Band
17234	49.45	H	--	--	Peak	1.47	270	Not in Restricted Band
17234	36.81	H	--	--	Avg	1.47	270	Not in Restricted Band
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
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 1 - 802.11 b Mode**

Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Channel 6 - 802.11 b Mode

Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

Channel 11 - 802.11 b Mode

Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2312	49.29	V	74	-24.71	Peak	3.2	270	103 MHz Below the Fundamental
2312	43.54	V	54	-10.46	Avg	3.2	270	of Channel 1
2512	43.51	V	74	-30.49	Peak	1.46	270	103 MHz Above the Fundamental
2512	34.99	V	54	-19.01	Avg	1.46	270	of Channel 1
2312	52.86	H	74	-21.14	Peak	1.93	225	103 MHz Below the Fundamental
2312	47.47	H	54	-6.53	Avg	1.93	225	of Channel 1
2512	44.4	H	74	-29.6	Peak	1.86	225	103 MHz Above the Fundamental
2512	33.24	H	54	-20.76	Avg	1.86	225	of Channel 1
2336	48.56	V	74	-25.44	Peak	1.59	135	103 MHz Below the Fundamental
2336	43.79	V	54	-10.21	Avg	1.59	135	of Channel 6
2538.7	45.73	V	74	-28.27	Peak	2.55	90	103 MHz Above the Fundamental
2538.7	37.38	V	54	-16.62	Avg	2.55	90	of Channel 6
2336	52.17	H	74	-21.83	Peak	1.94	225	103 MHz Below the Fundamental
2336	47	H	54	-7	Avg	1.94	225	of Channel 6
2538.7	46.96	H	74	-27.04	Peak	2.41	225	103 MHz Above the Fundamental
2538.7	39.12	H	54	-14.88	Avg	2.41	225	of Channel 6
2360	47.35	V	74	-26.65	Peak	1.82	135	103 MHz Below the Fundamental
2360	41.9	V	54	-12.1	Avg	1.82	135	of Channel 11
2565	45.34	V	74	-28.66	Peak	1.89	135	103 MHz Above the Fundamental
2565	37.11	V	54	-16.89	Avg	1.89	135	of Channel 11
2360	48.79	H	74	-25.21	Peak	2.22	225	103 MHz Below the Fundamental
2360	42.22	H	54	-11.78	Avg	2.22	225	of Channel 11
2564	46.82	H	74	-27.18	Peak	2.41	315	103 MHz Above the Fundamental
2564	38.12	H	54	-15.88	Peak	2.41	315	of Channel 11

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna

Channel 1 - 802.11 g Mode Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm

Channel 6 - 802.11 g Mode Gain : 24.0 Peak Power: 16.62 dBm Avg. Power: 9.93 dBm

Channel 11 - 802.11 g Mode Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2312	54.95	V	74	-19.05	Peak	1.84	225	103 MHz Below the Fundamental
2312	50.09	V	54	-3.91	Avg	1.84	225	of Channel 1
2512	48.24	V	74	-25.76	Peak	1.82	90	103 MHz Above the Fundamental
2512	41.77	V	54	-12.23	Avg	1.82	90	of Channel 1
2312	56.94	H	74	-17.06	Peak	1.95	225	103 MHz Below the Fundamental
2312	51.84	H	54	-2.16	Avg	1.95	225	of Channel 11
2512	51.11	H	74	-22.89	Peak	2.03	225	103 MHz Above the Fundamental
2512	44.12	H	54	-9.88	Avg	2.03	225	of Channel 11
2336	53.32	V	74	-20.68	Peak	1.53	225	103 MHz Below the Fundamental
2336	48.59	V	54	-5.41	Avg	1.53	225	of Channel 6
2538.7	50.04	V	74	-23.96	Peak	2.33	270	103 MHz Above the Fundamental
2538.7	43.93	V	54	-10.07	Avg	2.33	270	of Channel 6
2336	54.97	H	83.5	-28.53	Peak	1.96	225	103 MHz Below the Fundamental
2336	49.76	H	63.5	-13.74	Avg	1.96	225	of Channel 6
2538.7	51.78	H	83.5	-31.72	Peak	2.33	225	103 MHz Above the Fundamental
2538.7	45.85	H	63.5	-17.65	Avg	2.33	225	of Channel 6
2360	50.26	V	74	-23.74	Peak	2.28	225	103 MHz Below the Fundamental
2360	45.09	V	54	-8.91	Avg	2.28	225	of Channel 11
2565	47.84	V	74	-26.16	Peak	2.87	270	103 MHz Above the Fundamental
2565	38.34	V	54	-15.66	Avg	2.87	270	of Channel 11
2360	54.71	H	83.5	-28.79	Peak	1.72	225	103 MHz Below the Fundamental
2360	49.45	H	63.5	-14.05	Avg	1.72	225	of Channel 11
2564	50.77	H	83.5	-32.73	Peak	1.71	225	103 MHz Above the Fundamental
2564	42.44	H	63.5	-21.06	Peak	1.71	225	of Channel 11

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 1 - 802.11 b Mode**

Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	39.07	V	74	-34.93	Peak	2.38	225	Fundamental of LO for
3216	33.47	V	54	-20.53	Avg	2.38	225	Channel 1
6432	38.43	V	--	--	Peak	1.96	270	2nd Harmonic of LO for
6432	24.21	V	--	--	Avg	1.96	270	Channel 1
9648	52.22	V	--	--	Peak	2.48	225	3rd Harmonic of LO =
9648	47.18	V	--	--	Avg	2.48	225	4th Harmonic of Tx for Channel 1
12864	44.16	V	--	--	Peak	1.96	0	4th Harmonic of LO for
12864	31.11	V	--	--	Avg	1.96	0	Channel 1
3216	36.6	H	74	-37.4	Peak	2.96	225	Fundamental of LO for
3216	30.58	H	54	-23.42	Avg	2.96	225	Channel 1
6432	36.65	H	--	--	Peak	1.85	180	2nd Harmonic of LO for
6432	23.93	H	--	--	Avg	1.85	180	Channel 1
9648	53.58	H	--	--	Peak	2.2	270	3rd Harmonic of LO =
9648	49.28	H	--	--	Avg	2.2	270	4th Harmonic of Tx for Channel 1
12864	44.34	H	--	--	Peak	1.85	315	4th Harmonic of LO for
12864	31.07	H	--	--	Avg	1.85	315	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

With Hitachi Antenna**Channel 6 - 802.11 b Mode**

Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	37.58	V	74	-36.42	Peak	1.64	180	Fundamental of LO for
3249.33	30.73	V	54	-23.27	Avg	1.64	180	Channel 6
6498.67	35.99	V	--	--	Peak	1.93	225	2nd Harmonic of LO for
6498.67	23.89	V	--	--	Avg	1.93	225	Channel 6
9748	52.47	V	--	--	Peak	2.23	180	3rd Harmonic of LO =
9748	46.44	V	--	--	Avg	2.23	180	4th Harmonic of Tx for Channel 6
12997.3	43.1	V	--	--	Peak	2.35	45	4th Harmonic of LO for
12997.3	30.38	V	--	--	Avg	2.35	45	Channel 6
3249.33	35.06	H	74	-38.94	Peak	2.04	315	Fundamental of LO for
3249.33	27	H	54	-27	Avg	2.04	315	Channel 6
6498.67	37.4	H	--	--	Peak	1.9	0	2nd Harmonic of LO for
6498.67	23.78	H	--	--	Avg	1.9	0	Channel 6
9748	52.17	H	--	--	Peak	1.89	270	3rd Harmonic of LO =
9748	46.66	H	--	--	Avg	1.89	270	4th Harmonic of Tx for Channel 6
12997.3	45.08	H	--	--	Peak	1.89	270	4th Harmonic of LO for
12997.3	30.72	H	--	--	Avg	1.89	270	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 11 - 802.11 b Mode**

Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	37.87	V	74	-36.13	Peak	2.39	270	Fundamental of LO for
3282.67	30.51	V	54	-23.49	Avg	2.39	270	Channel 11
6565.33	37.13	V	--	--	Peak	2.39	315	2nd Harmonic of LO for
6565.33	24.31	V	--	--	Avg	2.39	315	Channel 11
9848	53.55	V	--	--	Peak	2.09	225	3rd Harmonic of LO =
9848	49.14	V	--	--	Avg	2.09	225	4th Harmonic of Tx for Channel 11
13130.7	43.43	V	--	--	Peak	1.56	315	4th Harmonic of LO for
13130.7	29.73	V	--	--	Avg	1.56	315	of Channel 11
3282.67	35.69	H	74	-38.31	Peak	1.86	315	Fundamental of LO for
3282.67	23.47	H	54	-30.53	Avg	1.86	315	Channel 11
6565.33	36.94	H	--	--	Peak	2.15	315	2nd Harmonic of LO for
6565.33	23.6	H	--	--	Avg	2.15	315	Channel 11
9848	54.54	H	--	--	Peak	2.51	270	3rd Harmonic of LO =
9848	50.33	H	--	--	Avg	2.51	270	4th Harmonic of Tx for Channel 11
13130.7	42.43	H	--	--	Peak	2.06	225	4th Harmonic of LO for
13130.7	29.59	H	--	--	Avg	2.06	225	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 1 - 802.11 g Mode**

Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	37.16	V	74	-36.84	Peak	2.01	0	Fundamental of LO for
3216	29.87	V	54	-24.13	Avg	2.01	0	Channel 1
6432	37.59	V	--	--	Peak	2.01	225	2nd Harmonic of LO for
6432	23.51	V	--	--	Avg	2.01	225	Channel 1
9648	44.4	V	--	--	Peak	1.62	135	3rd Harmonic of LO =
9648	31.84	V	--	--	Avg	1.62	135	4th Harmonic of Tx for Channel 1
12864	42.88	V	--	--	Peak	1.62	270	4th Harmonic of LO for
12864	30.65	V	--	--	Avg	1.62	270	Channel 1
3216	37.67	H	74	-36.33	Peak	2.55	180	Fundamental of LO for
3216	31.62	H	54	-22.38	Avg	2.55	180	Channel 1
6432	36.34	H	--	--	Peak	1.86	315	2nd Harmonic of LO for
6432	23.89	H	--	--	Avg	1.86	315	Channel 1
9648	44.79	H	--	--	Peak	1.79	45	3rd Harmonic of LO =
9648	32.01	H	--	--	Avg	1.79	45	4th Harmonic of Tx for Channel 1
12864	44.16	H	--	--	Peak	1.56	315	4th Harmonic of LO for
12864	31.05	H	--	--	Avg	1.56	315	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

With Hitachi Antenna**Channel 6 - 802.11 g Mode**

Gain : 24.0 Peak Power: 16.62 dBm Avg. Power: 9.93 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	38.14	V	74	-35.86	Peak	1.71	270	Fundamental of LO for
3249.33	34.08	V	54	-19.92	Avg	1.71	270	Channel 6
6498.67	36.39	V	--	--	Peak	2.16	180	2nd Harmonic of LO for
6498.67	23.19	V	--	--	Avg	2.16	180	Channel 6
9748	44.89	V	--	--	Peak	1.75	315	3rd Harmonic of LO =
9748	30.72	V	--	--	Avg	1.75	315	4th Harmonic of Tx for Channel 6
12997.3	42.9	V	--	--	Peak	1.71	225	4th Harmonic of LO for
12997.3	30.03	V	--	--	Avg	1.71	225	Channel 6
3249.33	35.73	H	74	-38.27	Peak	2.65	315	Fundamental of LO for
3249.33	28.71	H	54	-25.29	Avg	2.65	315	Channel 6
6498.67	35.38	H	--	--	Peak	2.65	270	2nd Harmonic of LO for
6498.67	23.5	H	--	--	Avg	2.65	270	Channel 6
9748	43.91	H	--	--	Peak	2.64	0	3rd Harmonic of LO =
9748	31.03	H	--	--	Avg	2.64	0	4th Harmonic of Tx for Channel 6
12997.3	43.54	H	--	--	Peak	2.02	180	4th Harmonic of LO for
12997.3	30.54	H	--	--	Avg	2.02	180	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna**Channel 11 - 802.11 g Mode**

Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	38.32	V	74	-35.68	Peak	1.73	270	Fundamental of LO for
3282.67	34.02	V	54	-19.98	Avg	1.73	270	Channel 11
6565.33	36.65	V	--	--	Peak	1.73	225	2nd Harmonic of LO for
6565.33	23.78	V	--	--	Avg	1.73	225	Channel 11
9848	46.26	V	--	--	Peak	2.86	315	3rd Harmonic of LO =
9848	35.88	V	--	--	Avg	2.86	315	4th Harmonic of Tx for Channel 11
13130.7	42.68	V	--	--	Peak	2.05	315	4th Harmonic of LO for
13130.7	29.35	V	--	--	Avg	2.05	315	of Channel 11
3282.67	36.44	H	74	-37.56	Peak	2.62	180	Fundamental of LO for
3282.67	29.92	H	54	-24.08	Avg	2.62	180	Channel 11
6565.33	37.75	H	--	--	Peak	2.02	315	2nd Harmonic of LO for
6565.33	23.65	H	--	--	Avg	2.02	315	Channel 11
9848	43.17	H	--	--	Peak	2.02	315	3rd Harmonic of LO =
9848	30.39	H	--	--	Avg	2.02	315	4th Harmonic of Tx for Channel 11
13130.7	42.54	H	--	--	Peak	2.02	180	4th Harmonic of LO for
13130.7	29.14	H	--	--	Avg	2.02	180	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

Intel Corporation

Model: WM3B2200BG

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

With Hitachi Antenna

Channel 6 - 802.11 b Mode

Receive Mode

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

[illegible]

Intel Corporation

Model: WM3B2200BG

With Hitachi Antenna

Receive Mode

Lab: B

Tested By: Kyle Fujimoto

[illegible]

Test Location : Compatible Electronics
 Customer : Intel
 Manufacturer : Intel
 Eut name : Intel Mini PCI Type 3A 802.11bg Wir
 Model : WM3B2200BG
 Serial # : N/A
 Specification : FCC B
 Distance correction factor (20 * log(test/spec) : 0.00
 Test Mode : Scan Type: Qualification w/ Hitachi Antenna
 Scan Range: 10 kHz to 1000 MHz (Vertical & Horizontal)
 Mode of Operation (worst case): Transmit
 Test Engineer: Benigno Chavez

Page : 1/1
 Date : 3/17/2005
 Time : 18:51:13
 Lab : A
 Test Distance : 3.0 Meters

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	115.622	45.00	2.53	12.49	32.37	27.65	43.50	-15.85
2H	135.232	47.80	2.82	12.05	32.31	30.35	43.50	-13.15
3V	135.530	55.20	2.82	12.04	32.31	37.75	43.50	-5.75
4V	135.531Qp	51.22	2.82	12.04	32.31	33.77	43.50	-9.73
5H	140.080	50.20	2.91	11.90	32.28	32.74	43.50	-10.76
6V	150.319	48.00	3.10	11.85	32.20	30.74	43.50	-12.76
7H	151.536	55.20	3.09	12.04	32.21	38.11	43.50	-5.39
8H	151.537Qp	50.96	3.09	12.04	32.21	33.87	43.50	-9.63
9H	178.874	51.30	2.92	14.78	32.40	36.59	43.50	-6.91
10V	180.894	45.00	2.92	14.65	32.40	30.18	43.50	-13.32
11H	184.506	52.40	2.94	14.86	32.40	37.80	43.50	-5.70
12H	188.962	48.30	2.96	15.11	32.40	33.96	43.50	-9.54
13H	314.683	52.60	3.66	12.87	32.27	36.86	46.00	-9.14
14V	314.695	44.10	3.66	12.87	32.27	28.36	46.00	-17.64
15H	338.688	48.40	3.76	13.12	32.22	33.06	46.00	-12.94
16V	338.754	50.90	3.76	13.12	32.22	35.56	46.00	-10.44
17H	405.524	49.20	4.36	13.84	32.18	35.22	46.00	-10.78
18V	406.490	51.30	4.37	13.87	32.17	37.36	46.00	-8.64
19H	474.327	45.40	5.00	15.46	32.00	33.86	46.00	-12.14
20H	542.354	41.70	5.37	16.22	31.83	31.46	46.00	-14.54

Intel Corporation

Model: WM3B2200BG

With Hitachi Antenna

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

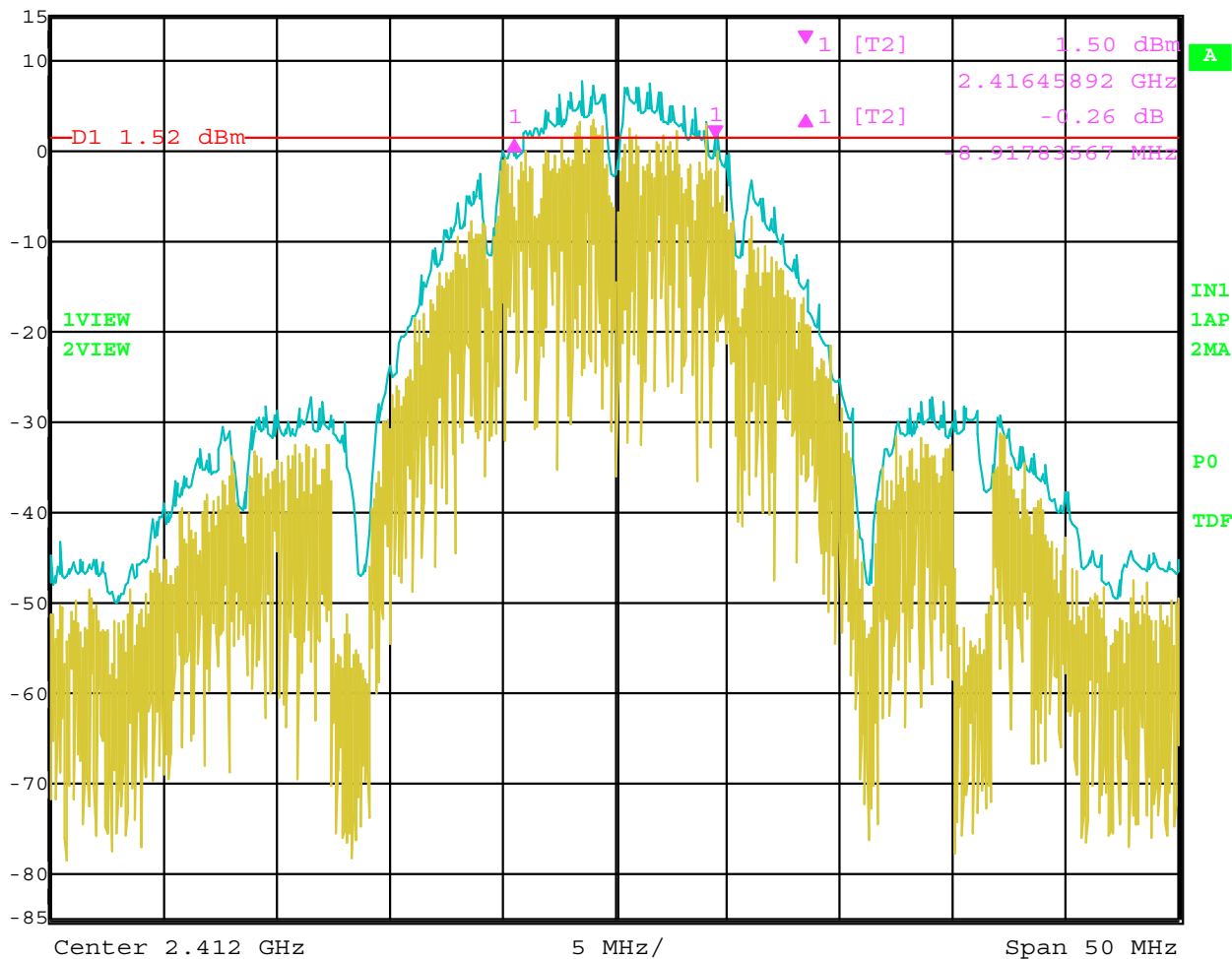
[illegible]

-6 dB BANDWIDTH

DATA SHEETS



Delta 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -0.26 dB VBW 300 kHz
15 dBm -8.91783567 MHz SWT 12.5 ms Unit dBm

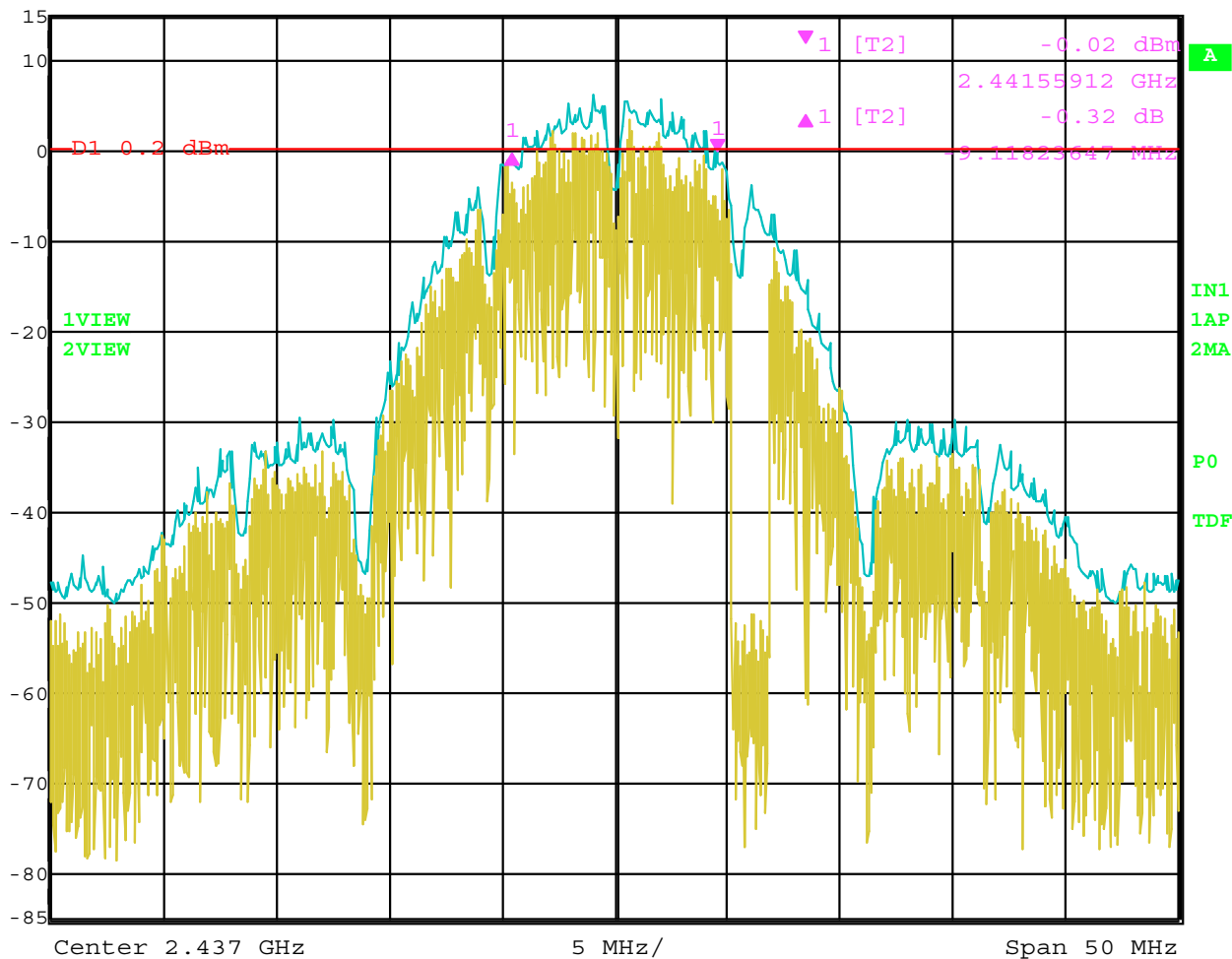


Date: 17.MAR.2005 14:08:52

Bandwidth 6 dB – Channel 1 – 802.11 b Mode – Hitachi Antenna



Delta 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -0.32 dB VBW 300 kHz
15 dBm -9.11823647 MHz SWT 12.5 ms Unit dBm

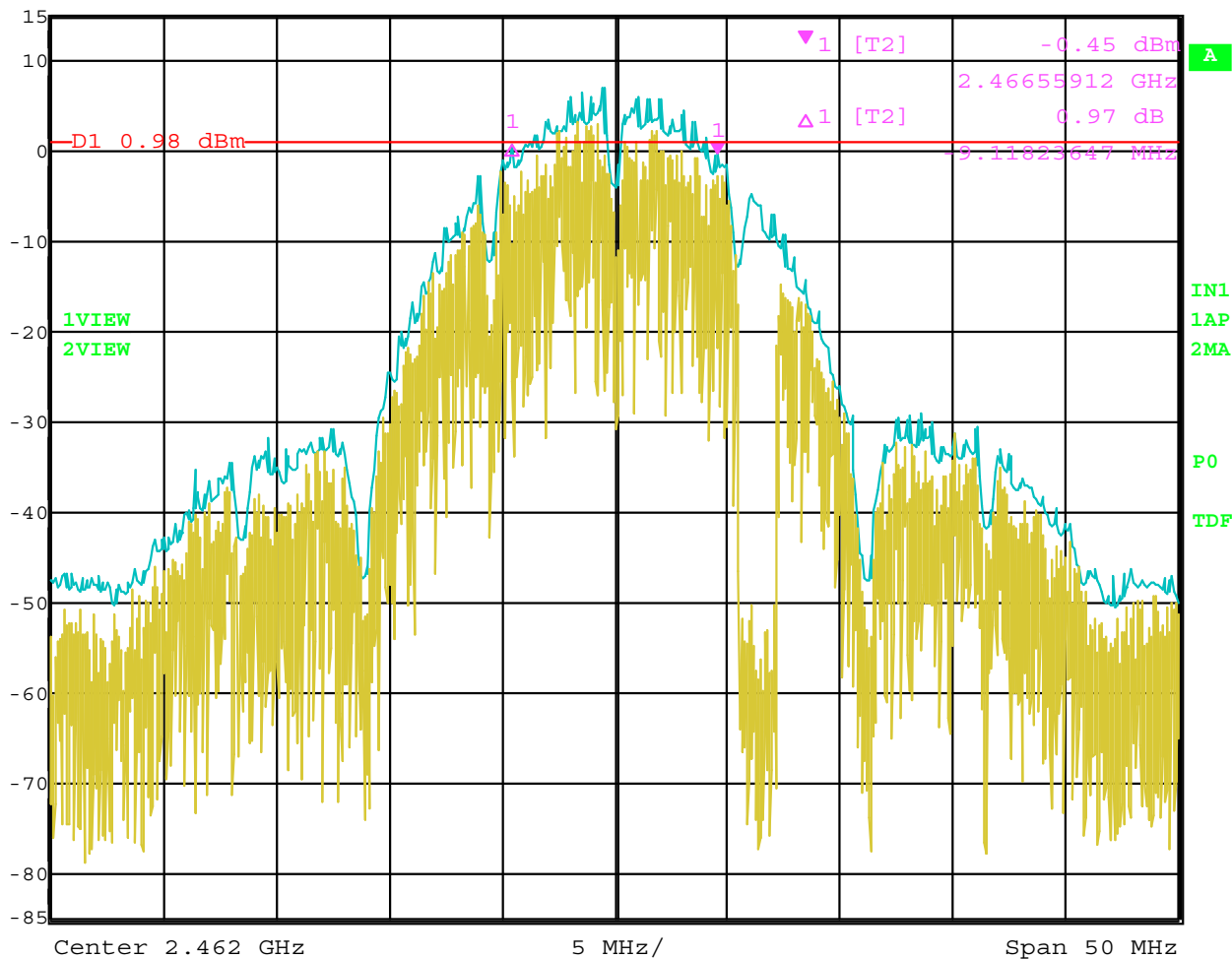


Date: 17.MAR.2005 14:11:10

Bandwidth 6 dB – Channel 6 – 802.11 b Mode – Hitachi Antenna



Ref Lvl 15 dBm
Marker 1 [T2] -0.45 dBm
2.46655912 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 12.5 ms Unit dBm

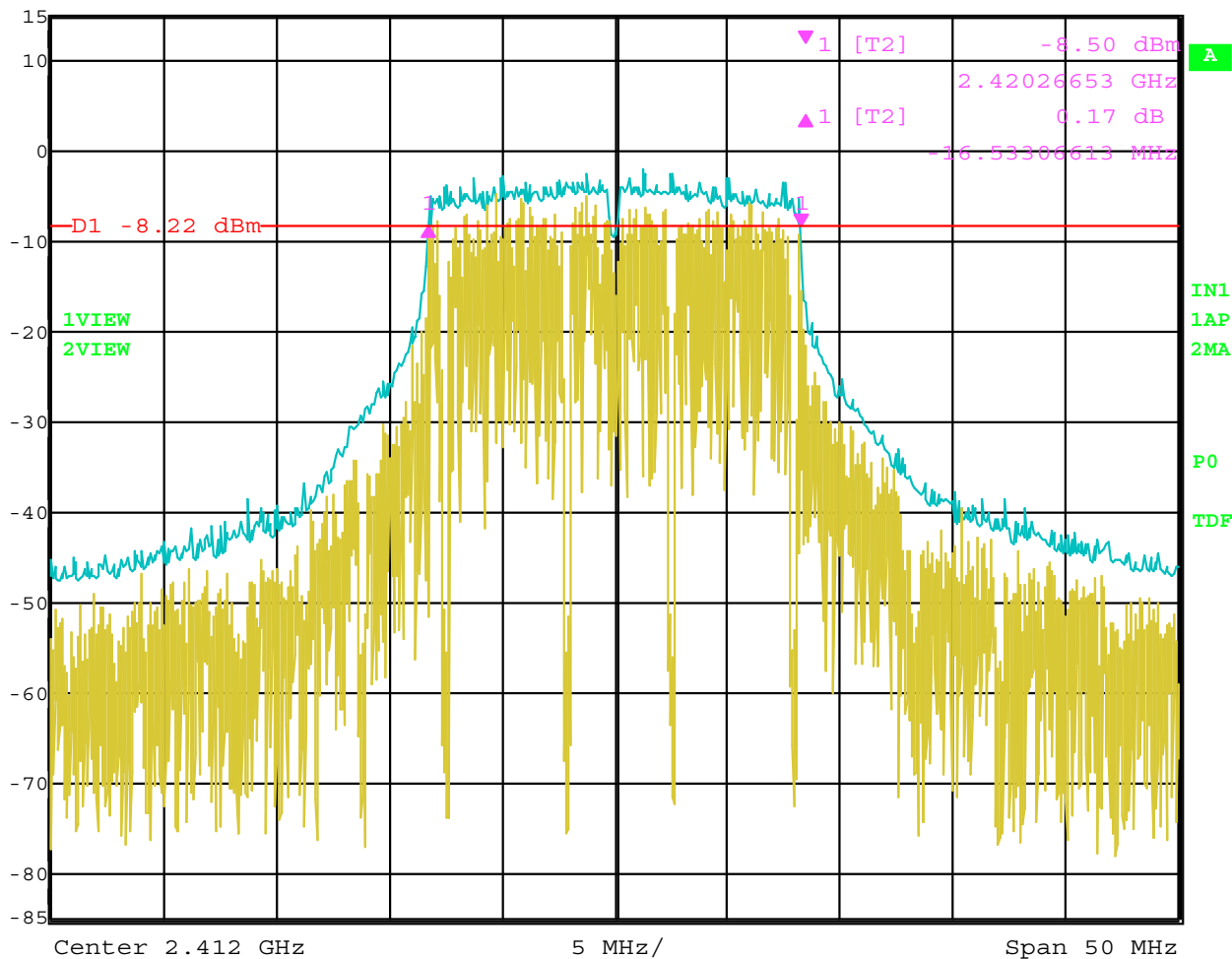


Date: 17.MAR.2005 14:13:37

Bandwidth 6 dB – Channel 11 – 802.11 b Mode – Hitachi Antenna



Delta 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 0.17 dB VBW 300 kHz
15 dBm -16.53306613 MHz SWT 12.5 ms Unit dBm

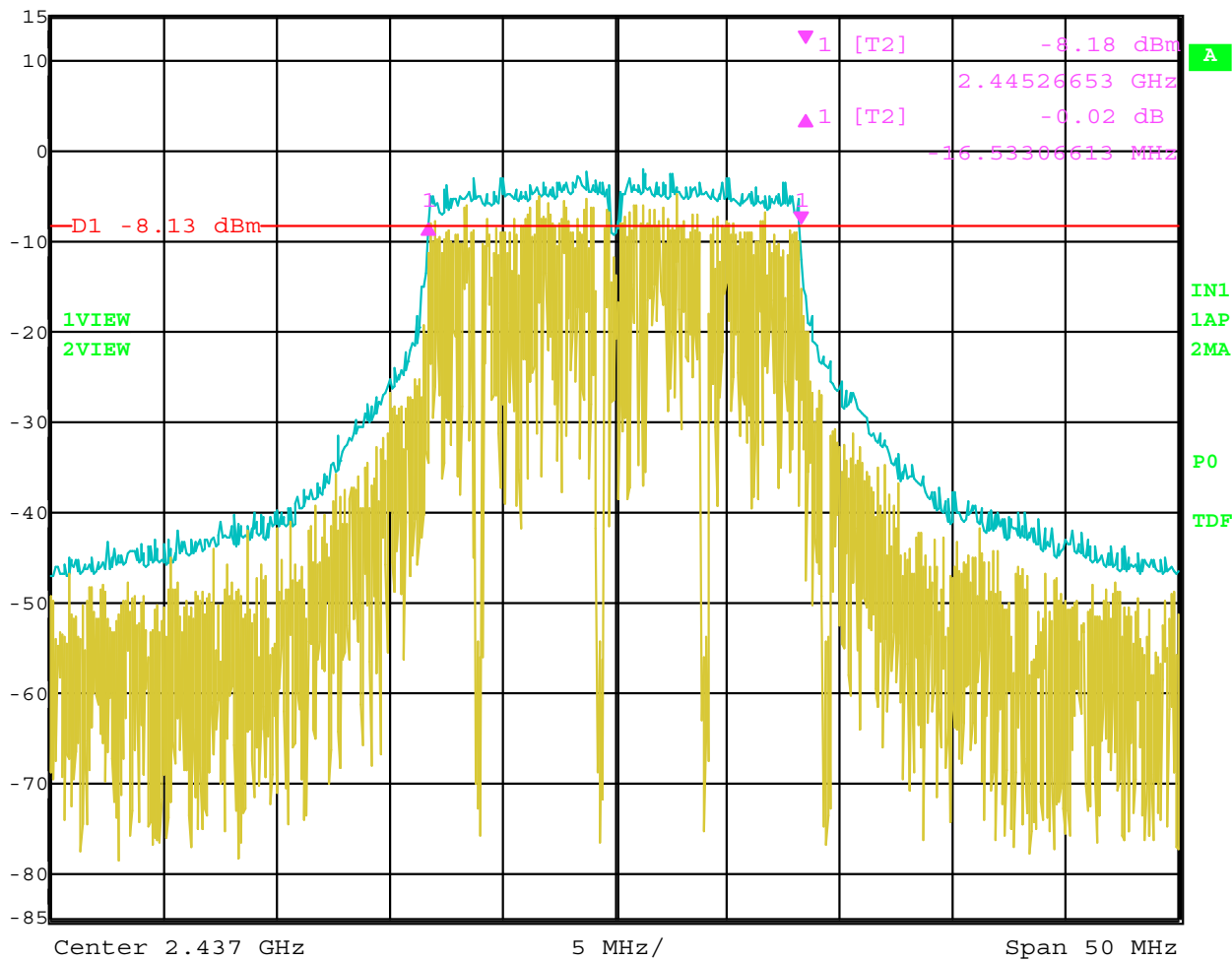


Date: 17.MAR.2005 14:31:23

Bandwidth 6 dB – Channel 1 – 802.11 g Mode – Hitachi Antenna



Delta 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -0.02 dB VBW 300 kHz
15 dBm -16.53306613 MHz SWT 12.5 ms Unit dBm

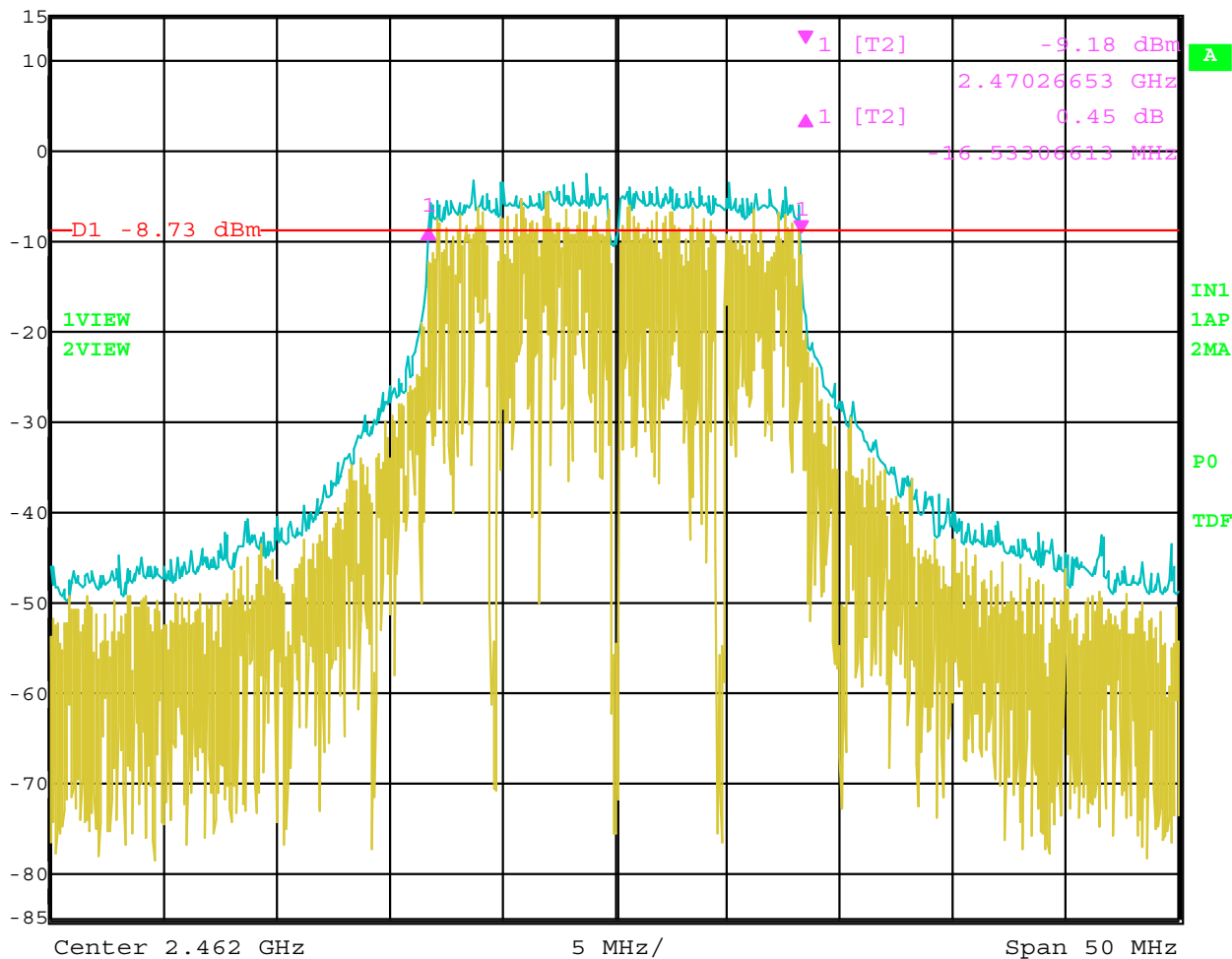


Date: 17.MAR.2005 14:34:22

Bandwidth 6 dB – Channel 6 – 802.11 g Mode – Hitachi Antenna



Delta 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 0.45 dB VBW 300 kHz
15 dBm -16.53306613 MHz SWT 12.5 ms Unit dBm



Date: 17.MAR.2005 14:35:52

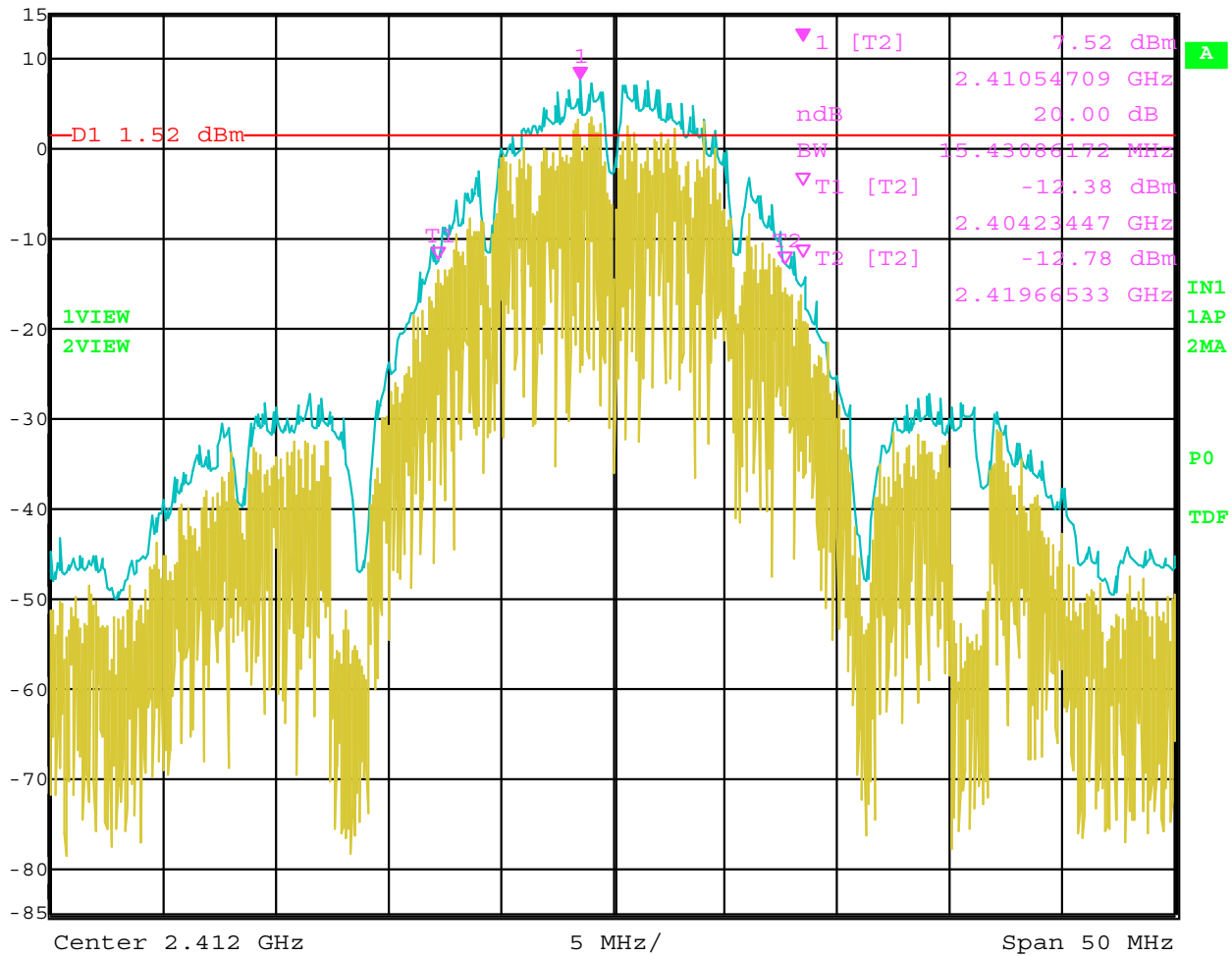
Bandwidth 6 dB – Channel 11 – 802.11 g Mode – Hitachi Antenna

-20 dB BANDWIDTH

DATA SHEETS



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 15.43086172 MHz	SWT	12.5 ms	Unit	dBm

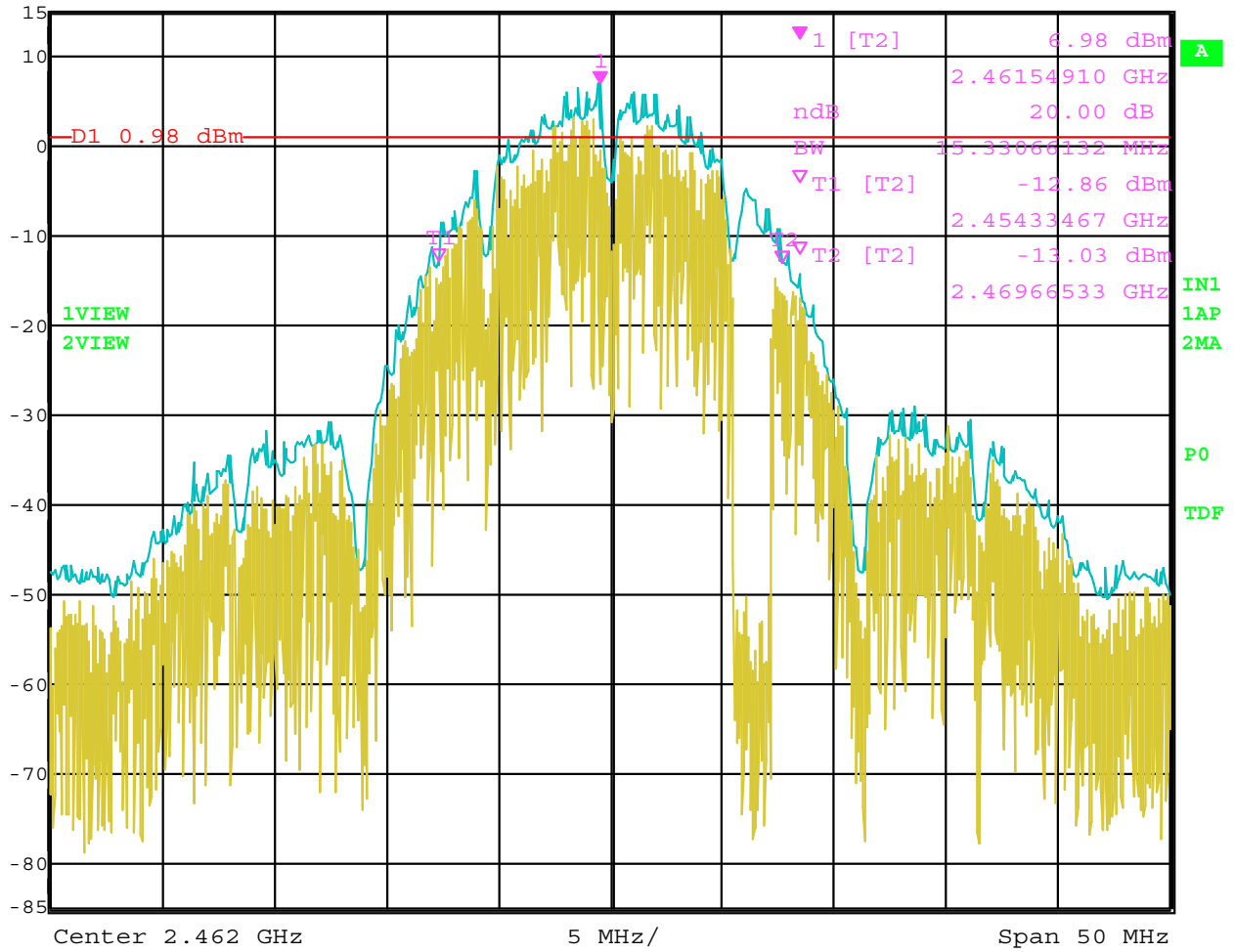


Date: 17.MAR.2005 14:09:32

Bandwidth 20 dB – Channel 1 – 802.11 b Mode – Hitachi Antenna



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 15.33066132 MHz	SWT	12.5 ms	Unit	dBm

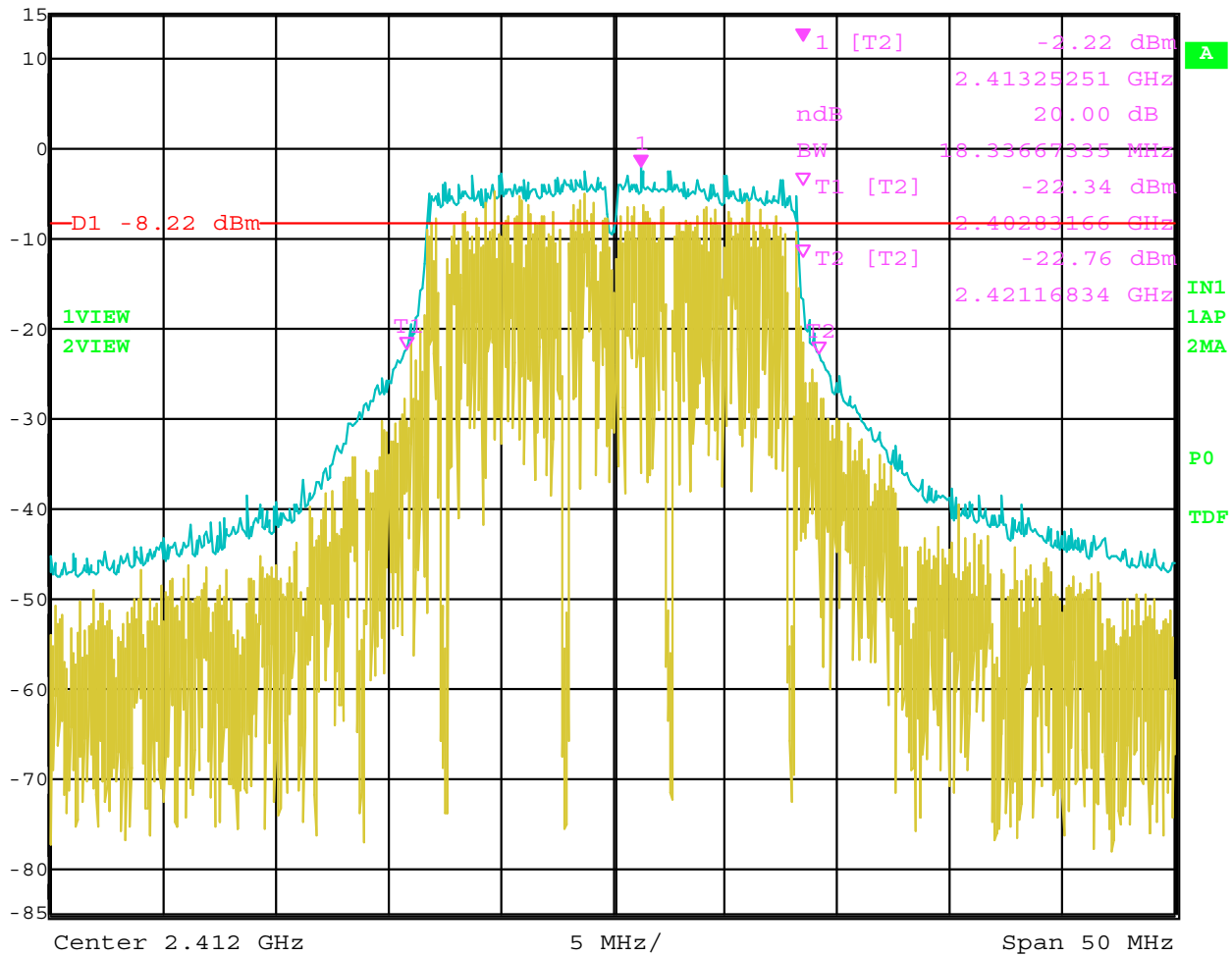


Date: 17.MAR.2005 14:14:15

Bandwidth 20 dB – Channel 11 – 802.11 b Mode – Hitachi Antenna



Ref Lvl 15 dBm
Marker 1 [T2 ndB] 20.00 dB
BW 18.33667335 MHz
RBW 100 kHz
RF Att 40 dB
VBW 300 kHz
SWT 12.5 ms
Unit dBm

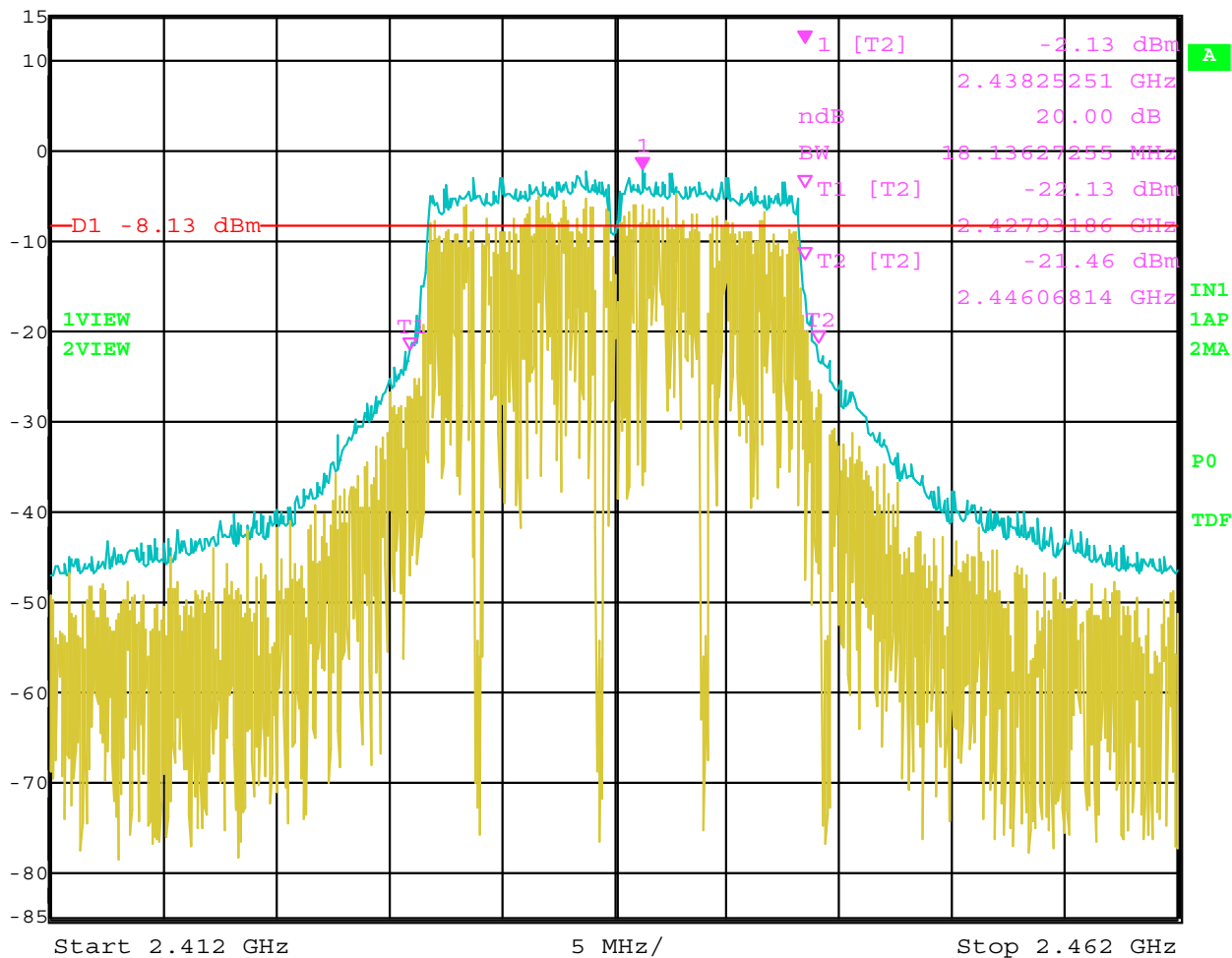


Date: 17.MAR.2005 14:32:06

Bandwidth 20 dB – Channel 1 – 802.11 g Mode – Hitachi Antenna



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 18.13627255 MHz	SWT	12.5 ms	Unit	dBm

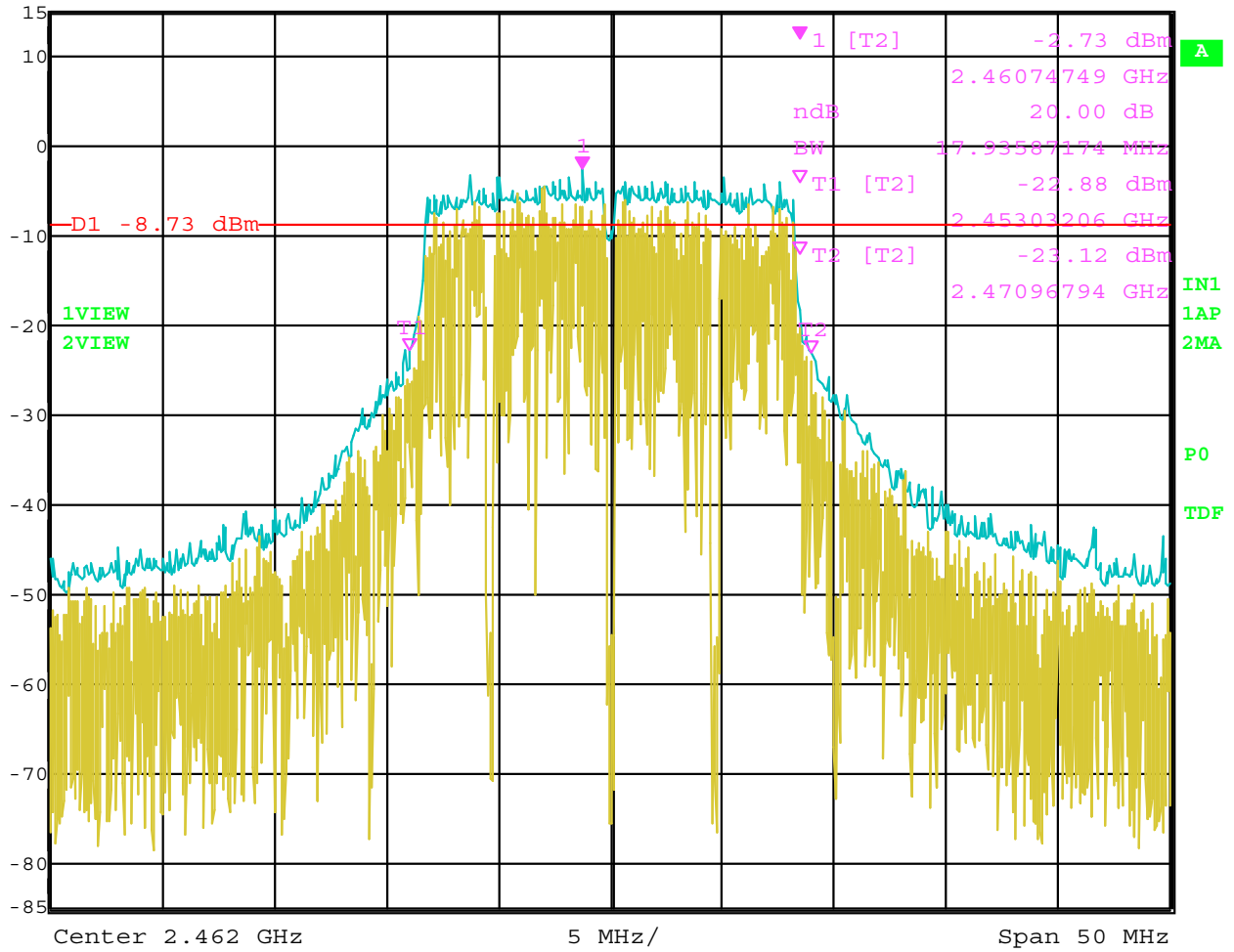


Date: 17.MAR.2005 14:34:57

Bandwidth 20 dB – Channel 6 – 802.11 g Mode – Hitachi Antenna



Ref Lvl 15 dBm
Marker 1 [T2 ndB] 20.00 dB
BW 17.93587174 MHz
RBW 100 kHz
VBW 300 kHz
SWT 12.5 ms
RF Att 40 dB
Unit dBm



Date: 17.MAR.2005 14:36:32

Bandwidth 20 dB – Channel 11 – 802.11 g Mode – Hitachi Antenna

PEAK POWER OUTPUT

DATA SHEETS

PEAK OUTPUT POWER

Intel Corporation

Intel Mini PCI Type 3B 802.11 BG Wireless LAN Adapter

MODEL: WM3B2200BG

For use in the Dell Agency Series #: PP17L

With Hitachi Antenna

802.11 b Mode (Worst Case Rate is 1 Mbps)

CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	30.0	17.66
6 (2437 MHz)	30.0	17.55
11 (2462 MHz)	30.0	17.65

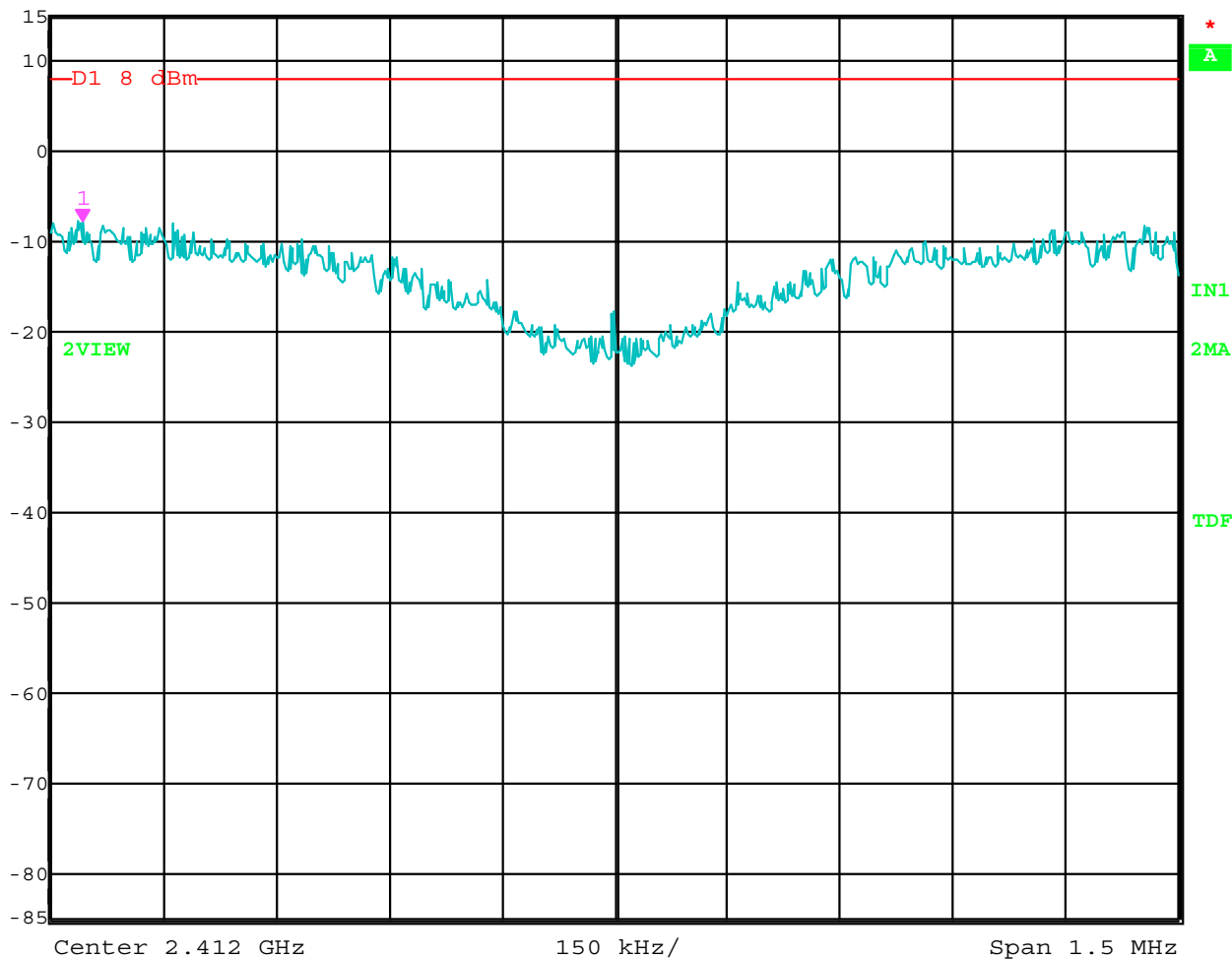
802.11 g Mode (Worst Case Rate is 6 Mbps)

CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	24.0	16.49
6 (2437 MHz)	24.0	16.62
11 (2462 MHz)	23.5	16.32

PEAK POWER SPECTRAL DENSITY
DATA SHEETS



Ref Lvl 15 dBm Marker 1 [T2] RBW 3 kHz RF Att 40 dB
-7.76 dBm VBW 10 kHz
2.41129208 GHz SWT 500 s Unit dBm

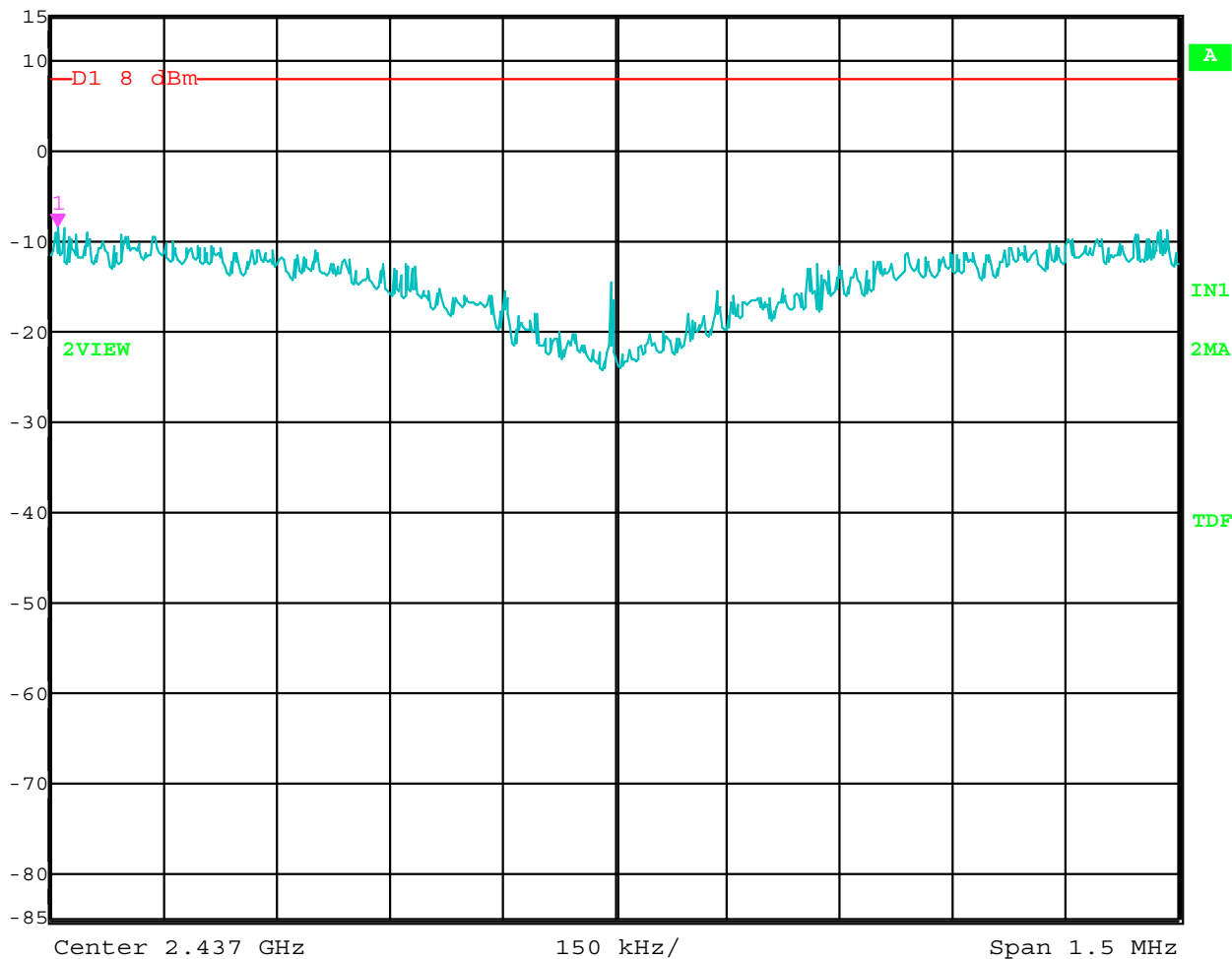


Date: 18.MAR.2005 04:28:45

Peak Power Spectral Density – Channel 1 – 802.11 b Mode – Hitachi Antenna



Ref Lvl 15 dBm Marker 1 [T2] RBW 3 kHz RF Att 40 dB
-8.39 dBm VBW 10 kHz
2.43625902 GHz SWT 500 s Unit dBm

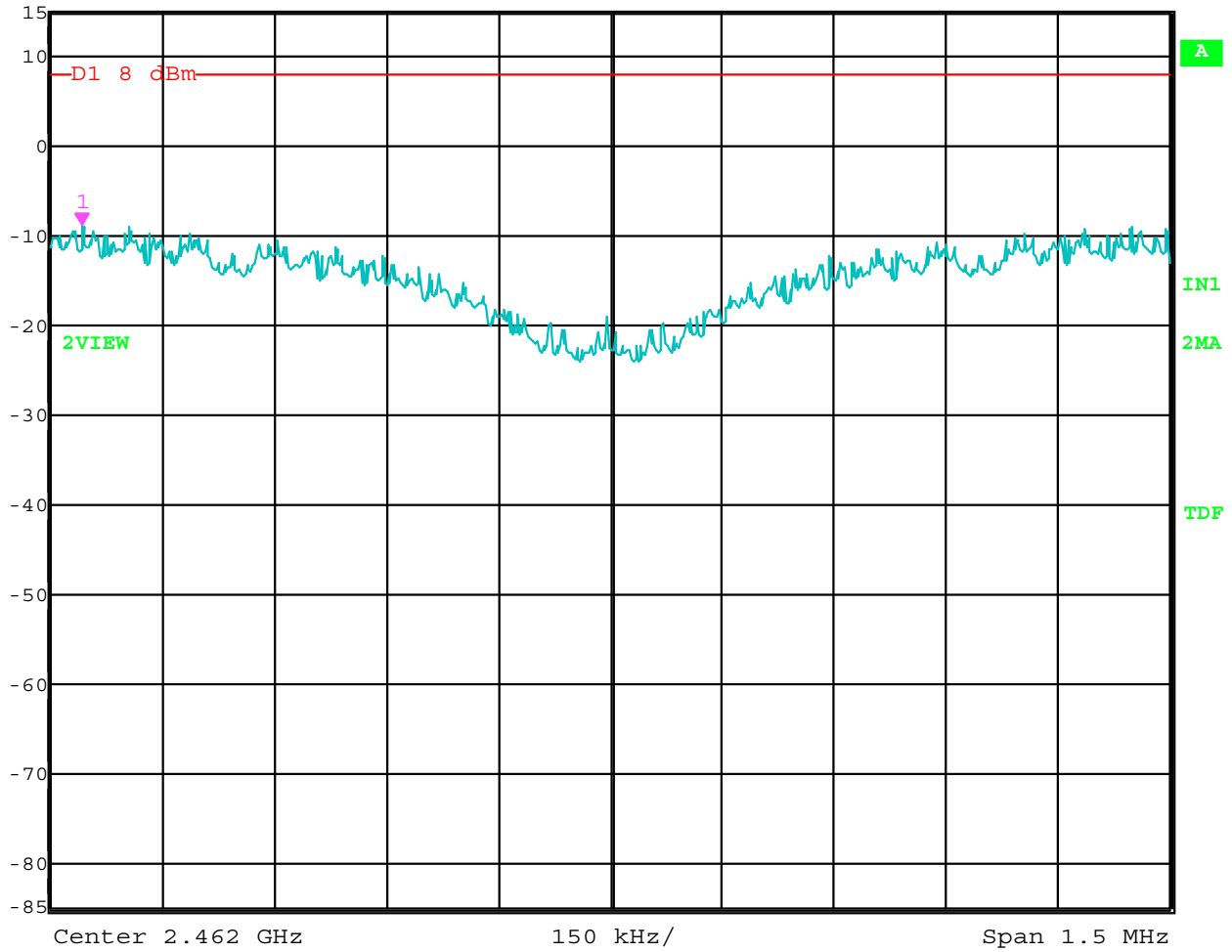


Date: 18.MAR.2005 04:37:44

Peak Power Spectral Density – Channel 6 – 802.11 b Mode – Hitachi Antenna



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-8.83 dBm	VBW	10 kHz		
	2.46129208 GHz	SWT	500 s	Unit	dBm

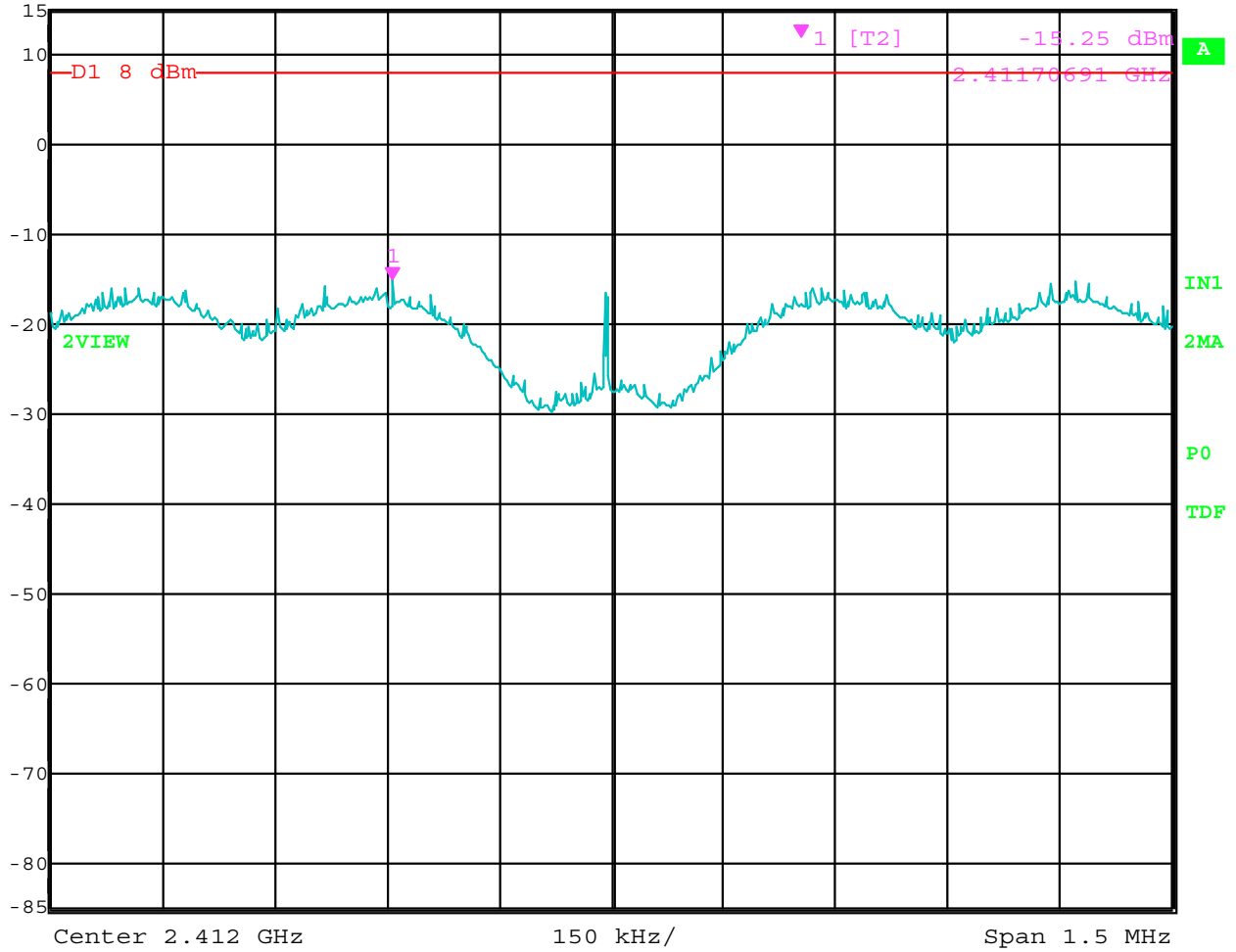


Date: 18.MAR.2005 04:46:54

Peak Power Spectral Density – Channel 11 – 802.11 b Mode – Hitachi Antenna



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-15.25 dBm	VBW	10 kHz		
	2.41170691 GHz	SWT	500 s	Unit	dBm

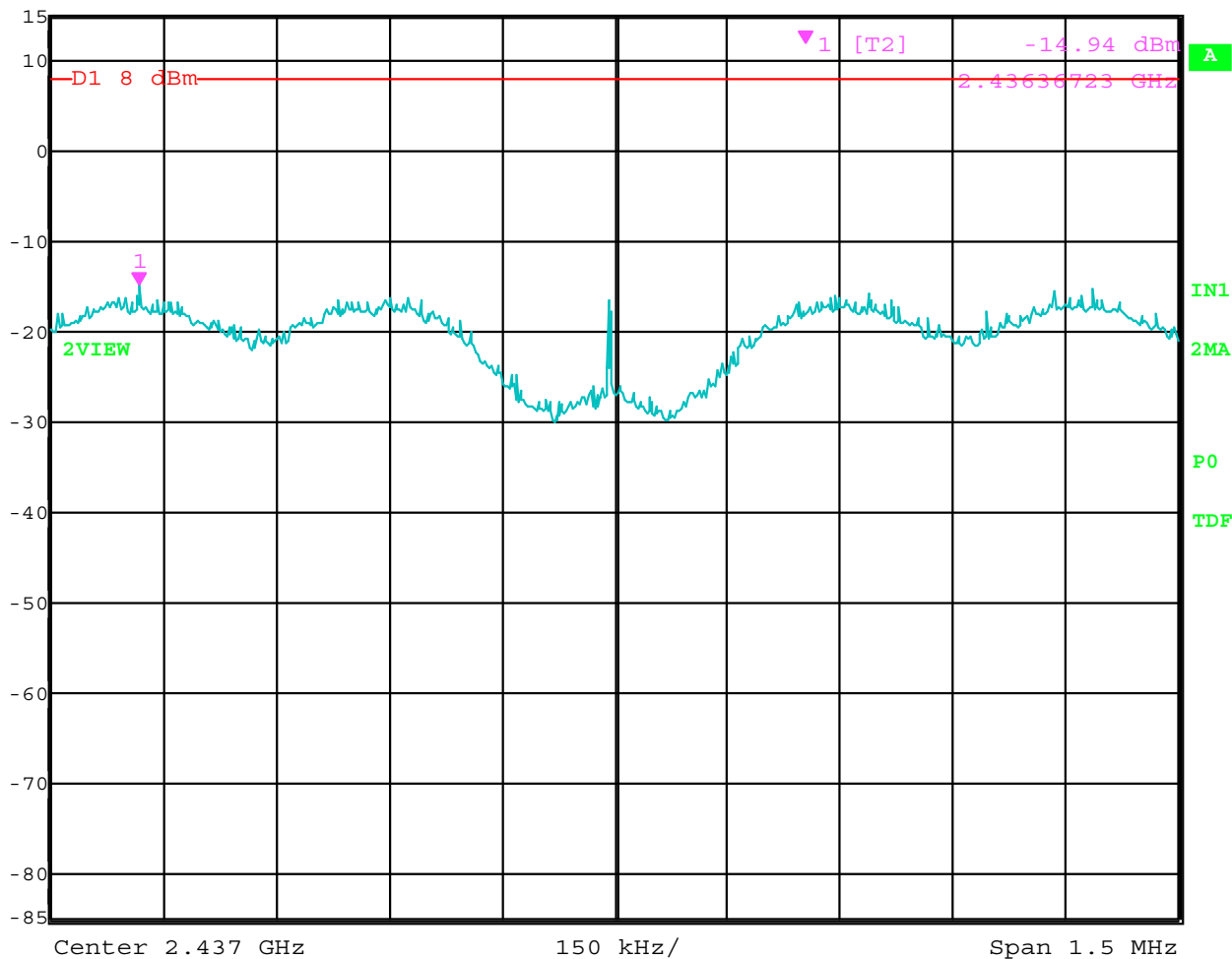


Date: 17.MAR.2005 15:43:57

Peak Power Spectral Density – Channel 1 – 802.11 g Mode – Hitachi Antenna



Ref Lvl 15 dBm
Marker 1 [T2] -14.94 dBm
2.43636723 GHz
RBW 3 kHz
RF Att 40 dB
VBW 10 kHz
SWT 500 s
Unit dBm

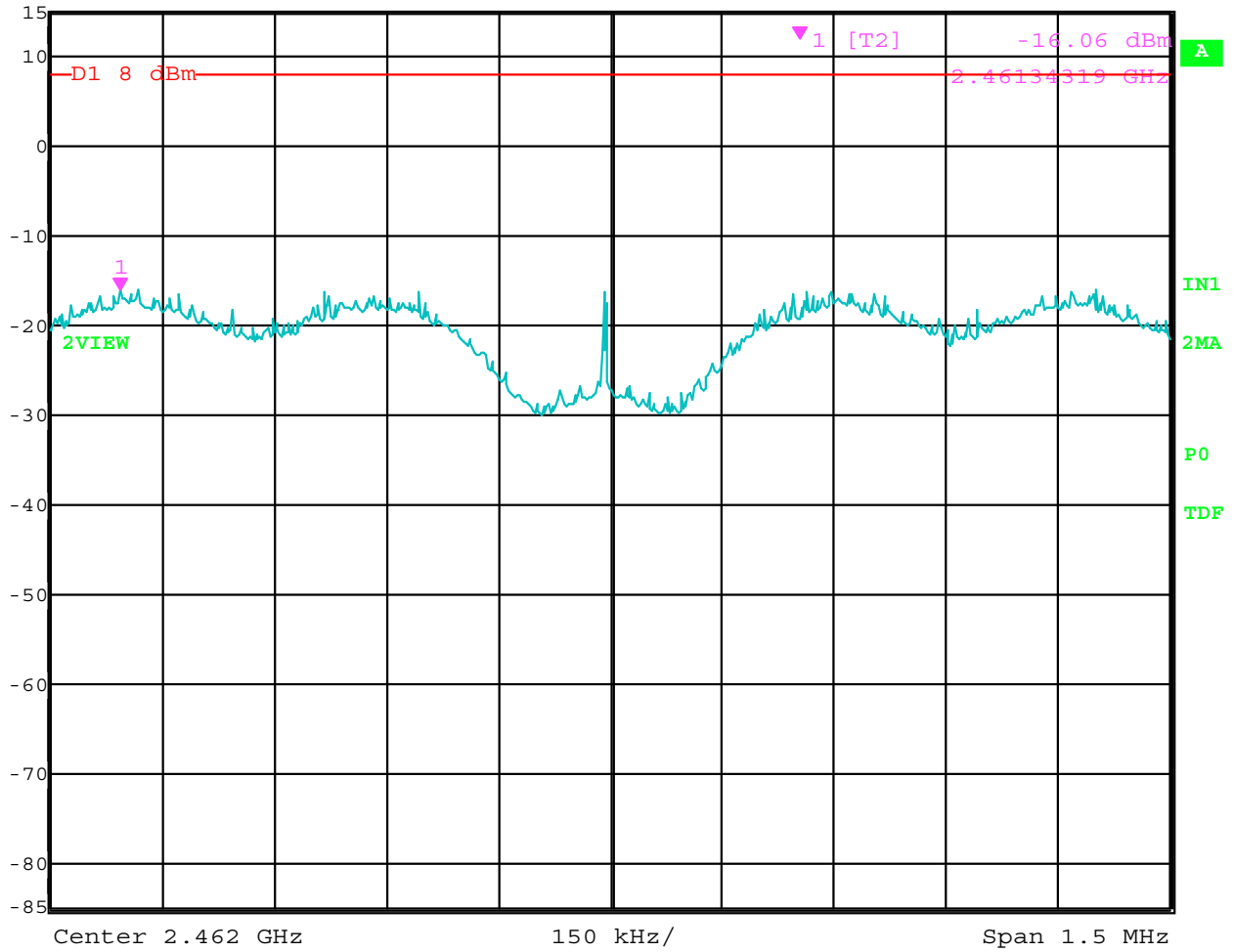


Date: 17.MAR.2005 15:53:29

Peak Power Spectral Density – Channel 6 – 802.11 g Mode – Hitachi Antenna



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-16.06 dBm	VBW	10 kHz		
	2.46134319 GHz	SWT	500 s	Unit	dBm



Date: 17.MAR.2005 16:04:56

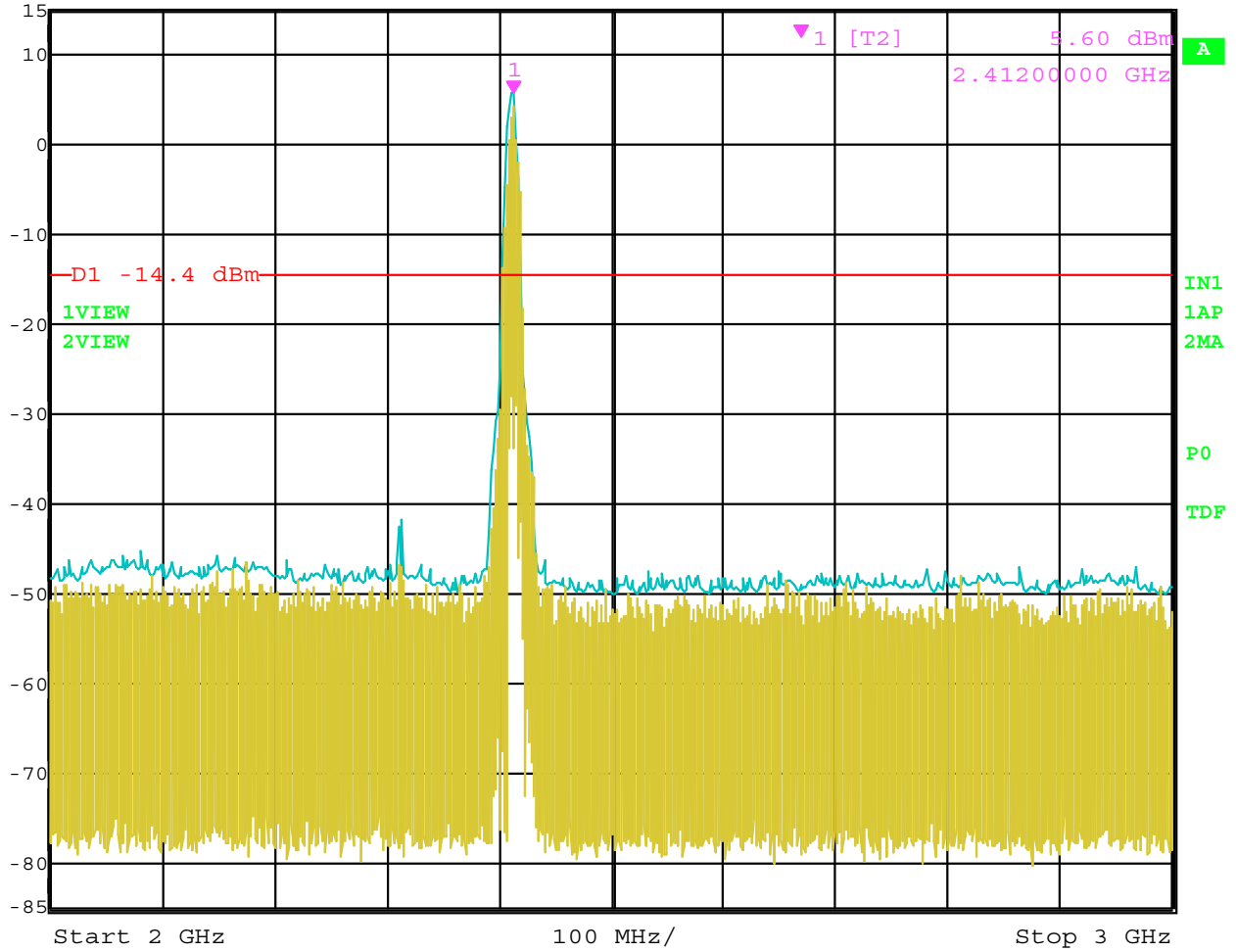
Peak Power Spectral Density – Channel 11 – 802.11 g Mode – Hitachi Antenna

RF ANTENNA CONDUCTED

DATA SHEETS



Ref Lvl 15 dBm
Marker 1 [T2] 5.60 dBm
2.41200000 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 250 ms Unit dBm

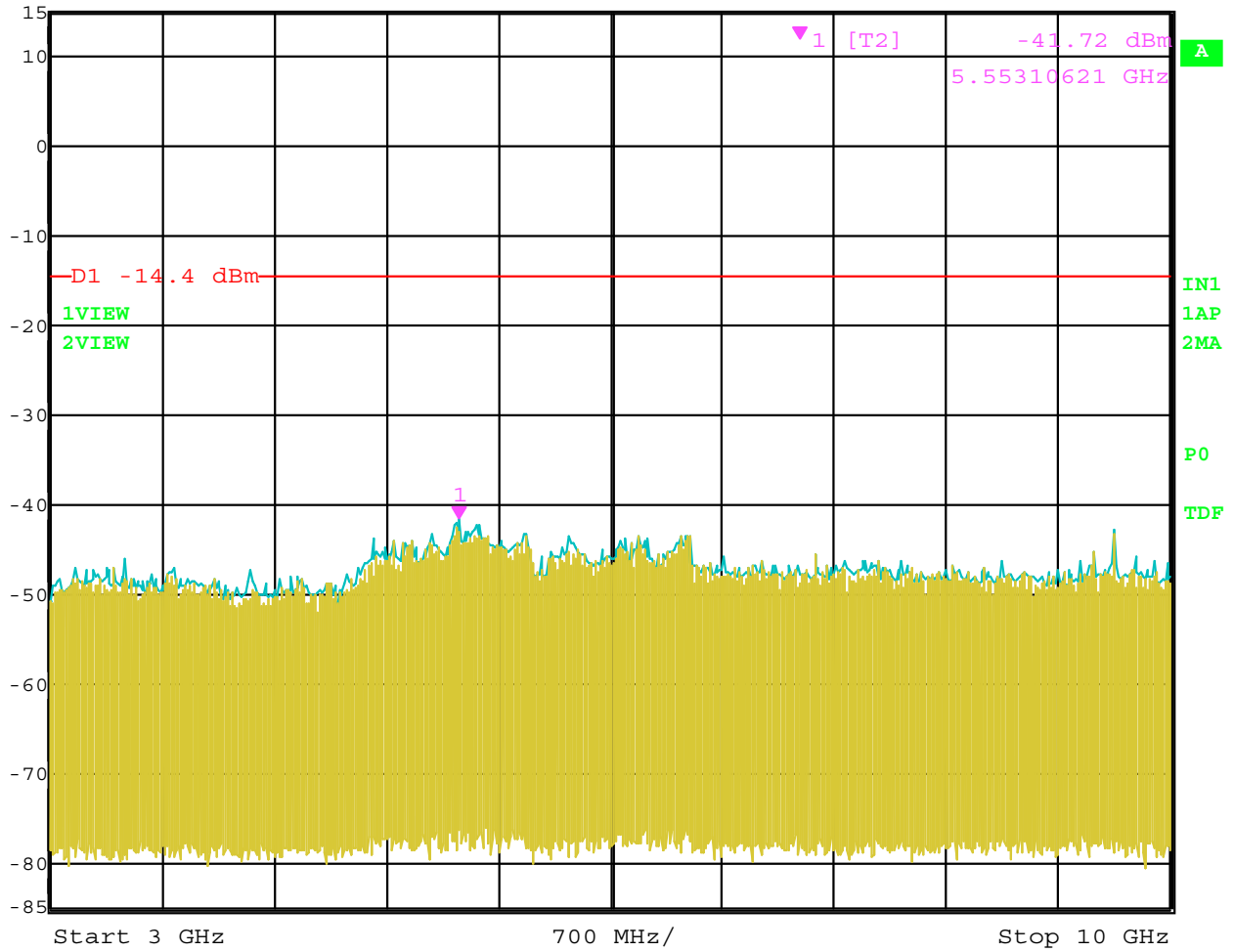


Date: 17.MAR.2005 14:17:38

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-41.72 dBm VBW 300 kHz
5.55310621 GHz SWT 1.75 s Unit dBm

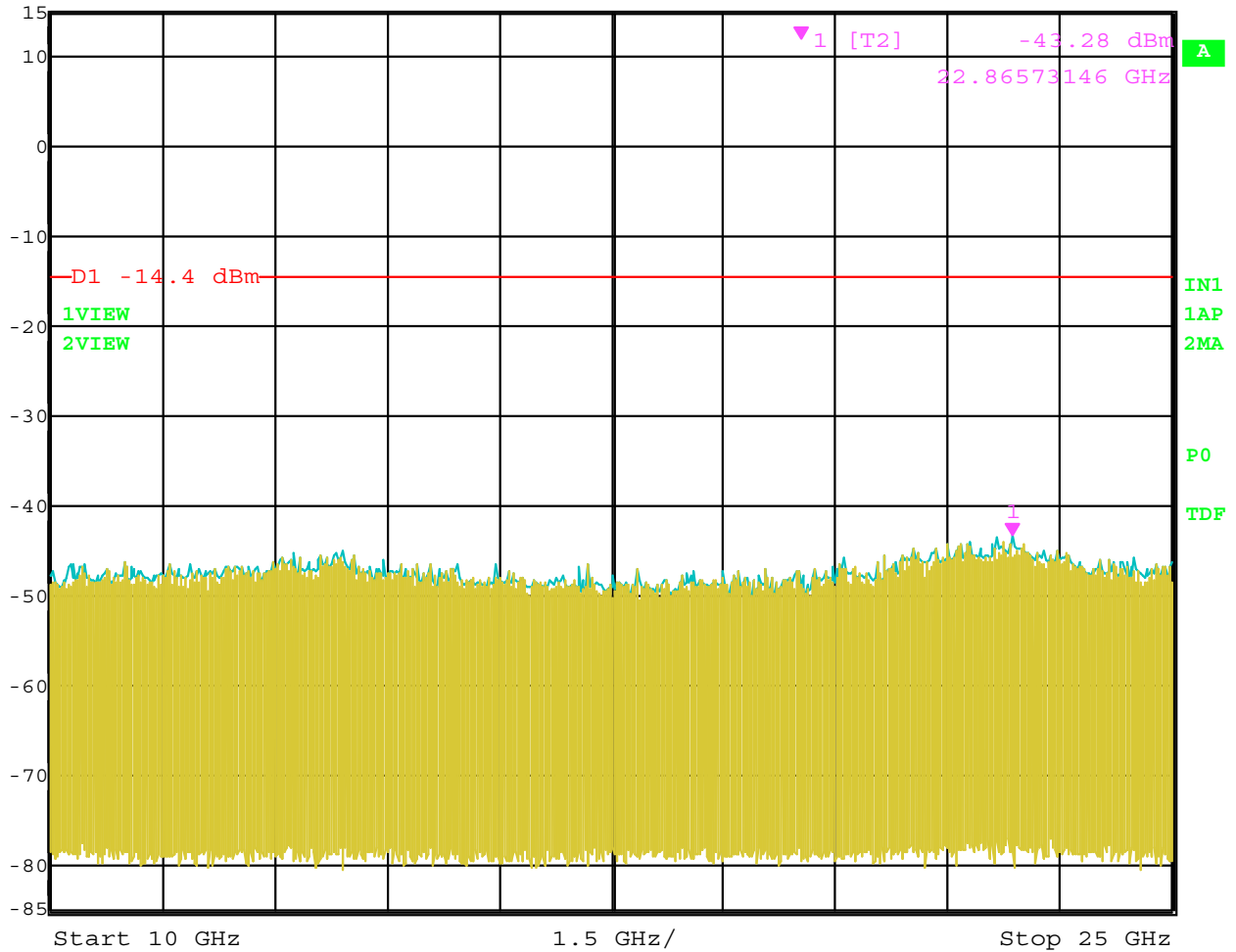


Date: 17.MAR.2005 14:18:41

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-43.28 dBm VBW 300 kHz
22.86573146 GHz SWT 3.8 s Unit dBm

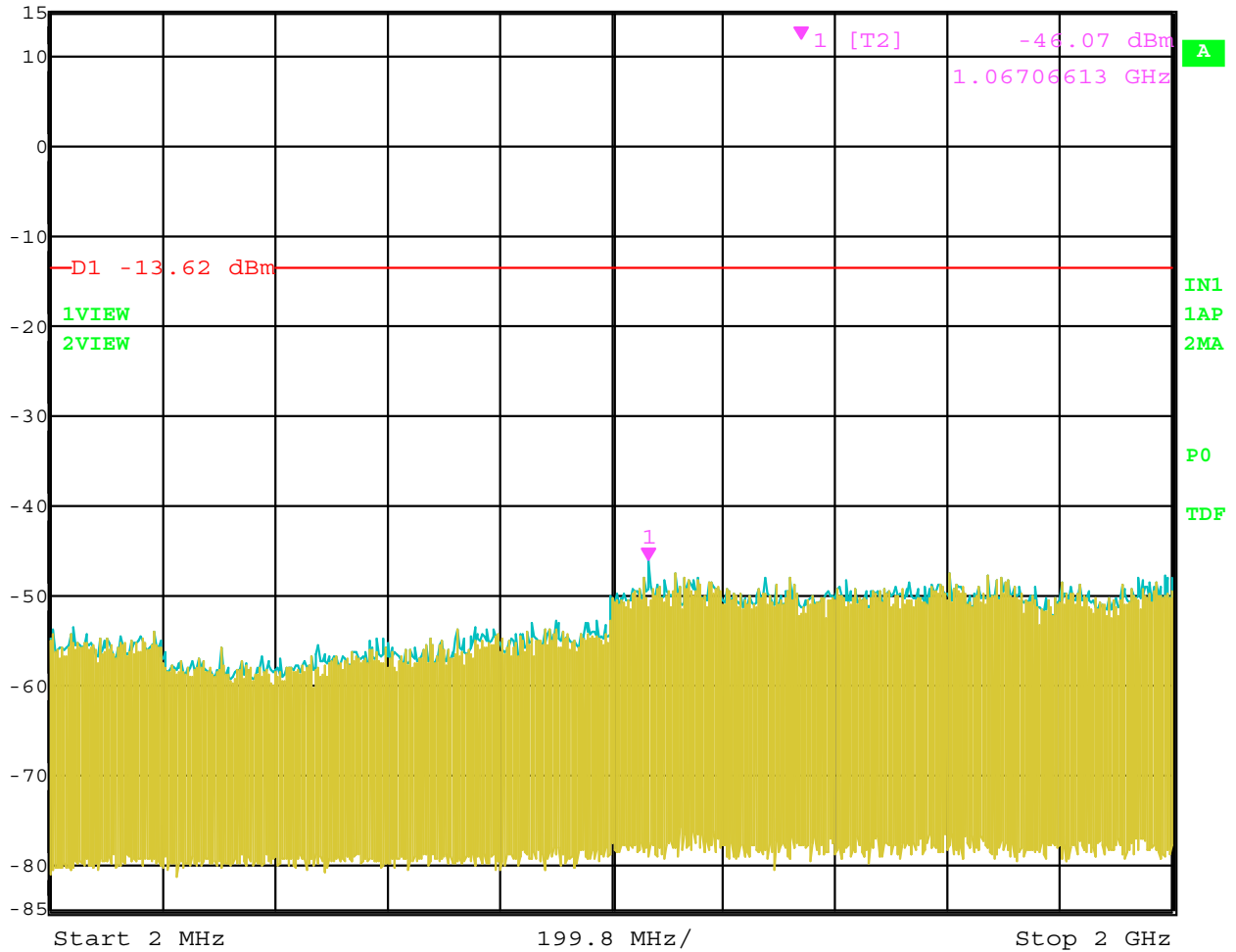


Date: 17.MAR.2005 14:19:40

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-46.07 dBm VBW 300 kHz
1.06706613 GHz SWT 1.15 s Unit dBm

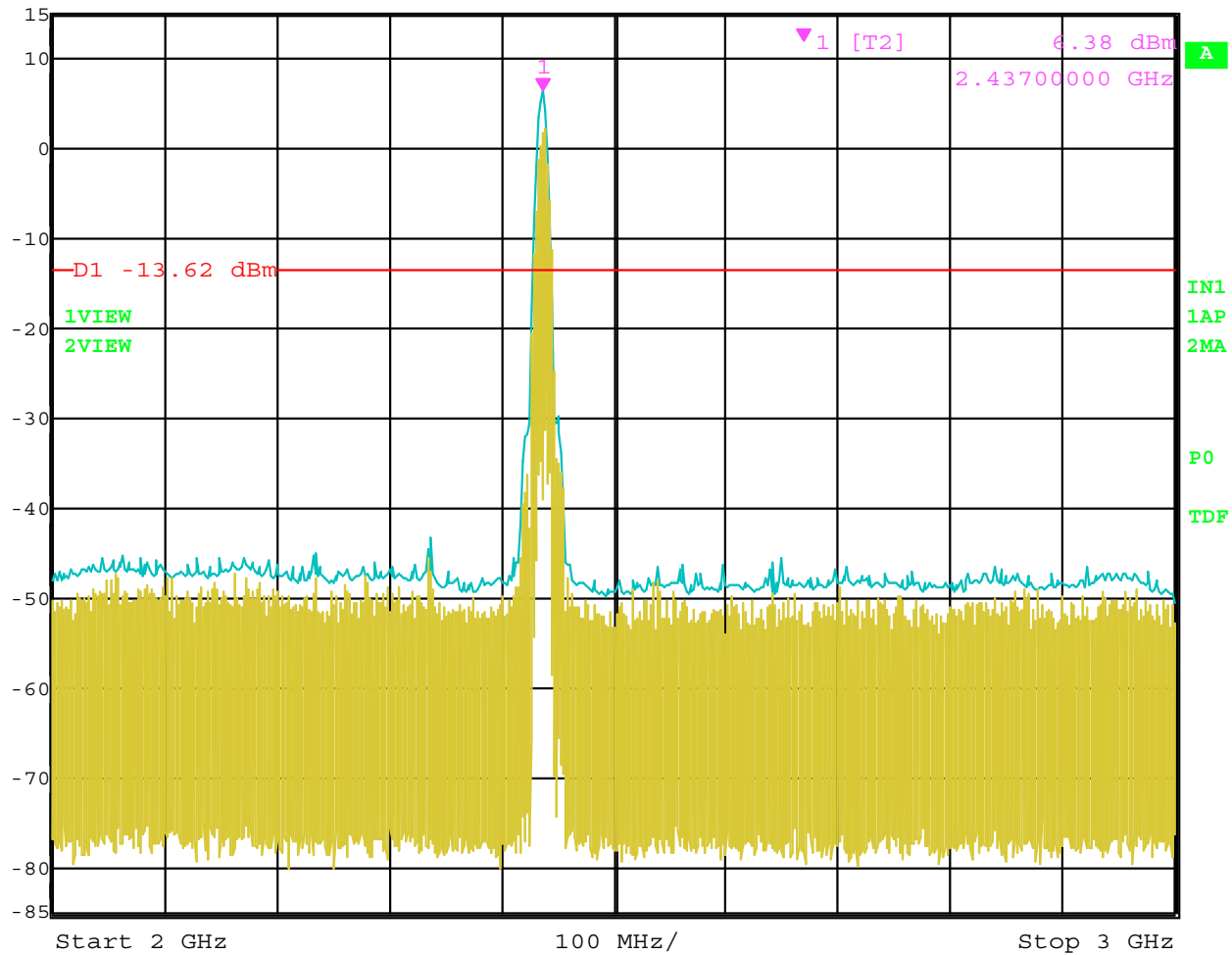


Date: 17.MAR.2005 14:22:46

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 6.38 dBm VBW 300 kHz
15 dBm 2.43700000 GHz SWT 250 ms Unit dBm

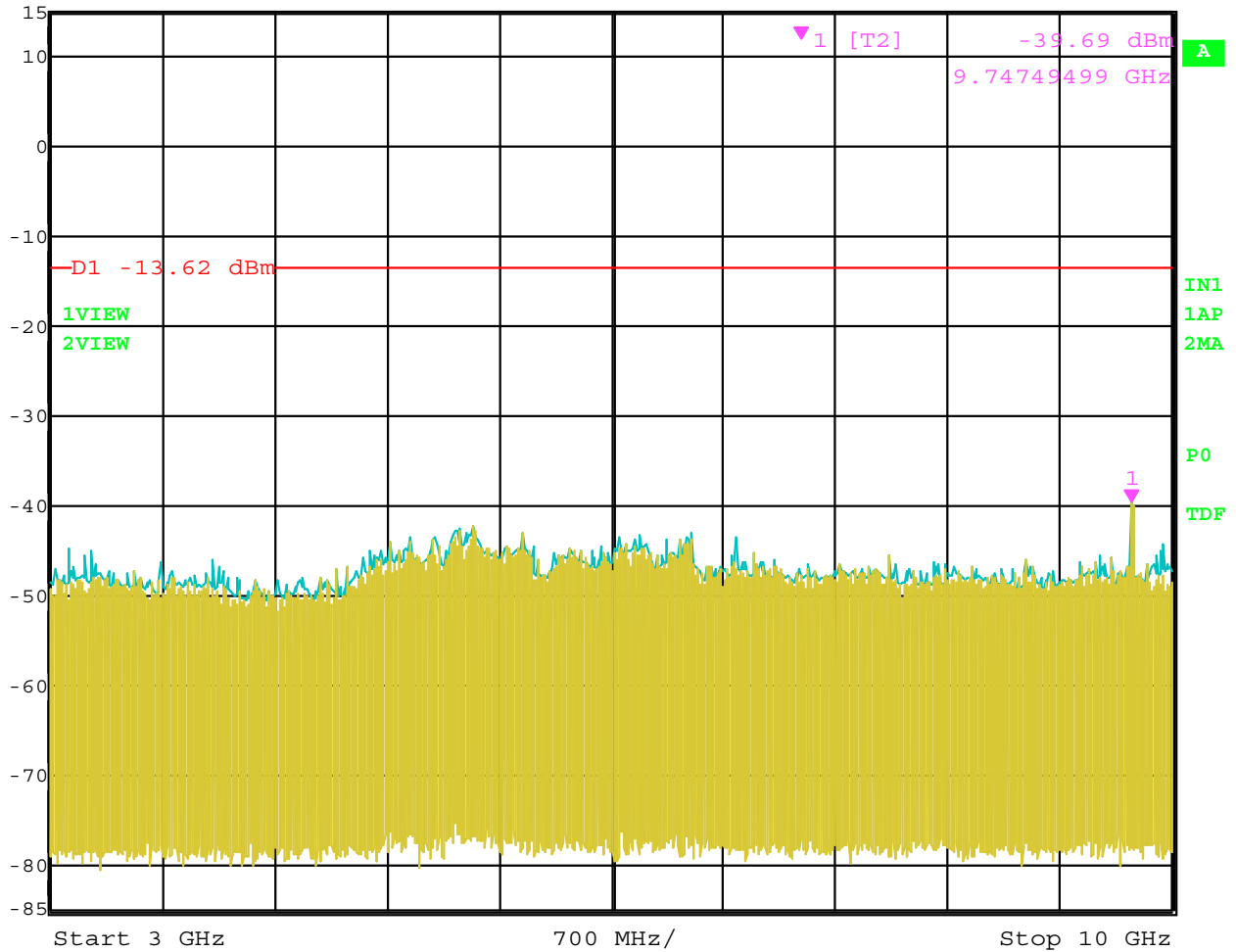


Date: 17.MAR.2005 14:22:15

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



Ref Lvl 15 dBm
Marker 1 [T2] -39.69 dBm
9.74749499 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 1.75 s Unit dBm

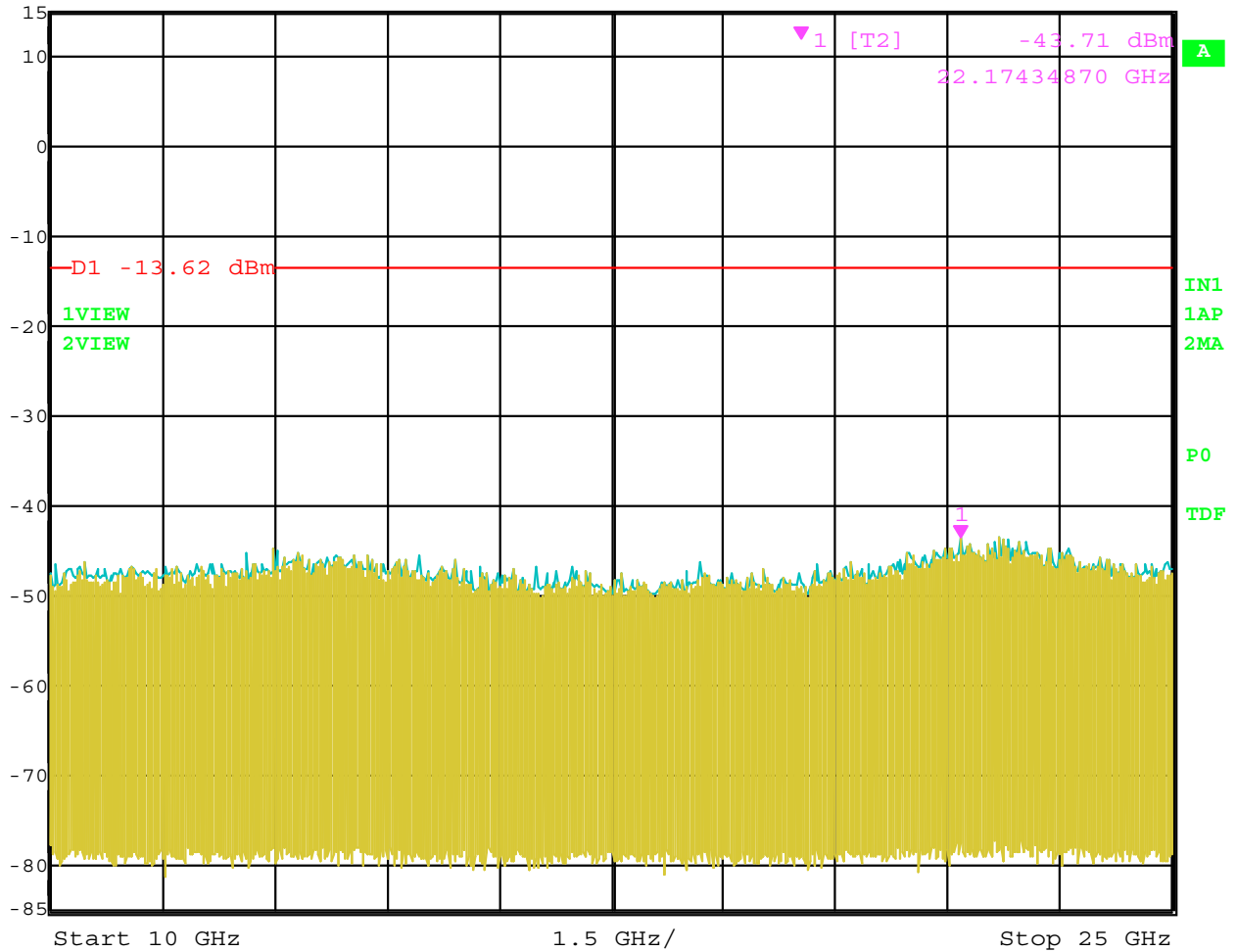


Date: 17.MAR.2005 14:23:15

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-43.71 dBm VBW 300 kHz
22.17434870 GHz SWT 3.8 s Unit dBm

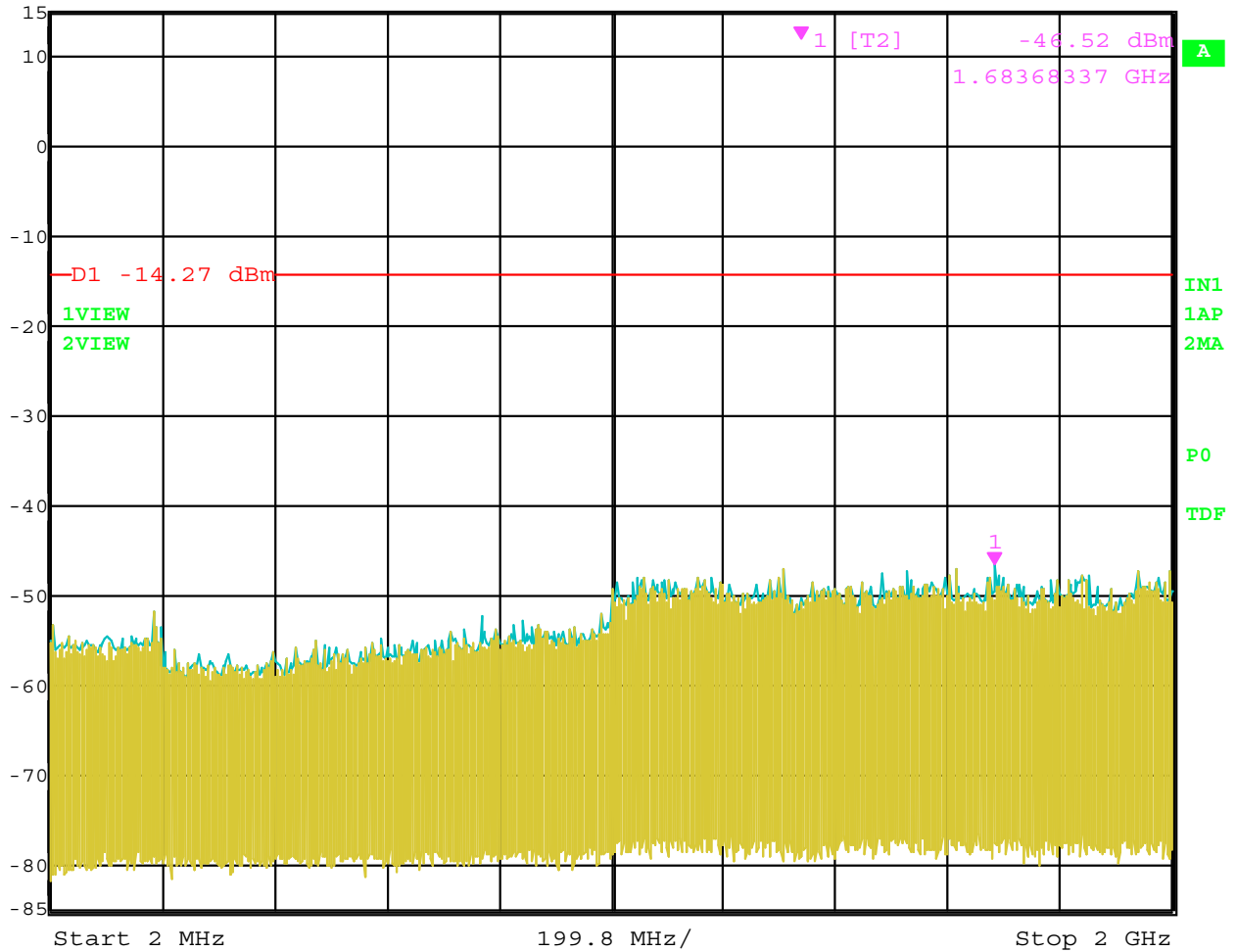


Date: 17.MAR.2005 14:23:48

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



Ref Lvl 15 dBm
Marker 1 [T2] -46.52 dBm
1.68368337 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 1.15 s Unit dBm

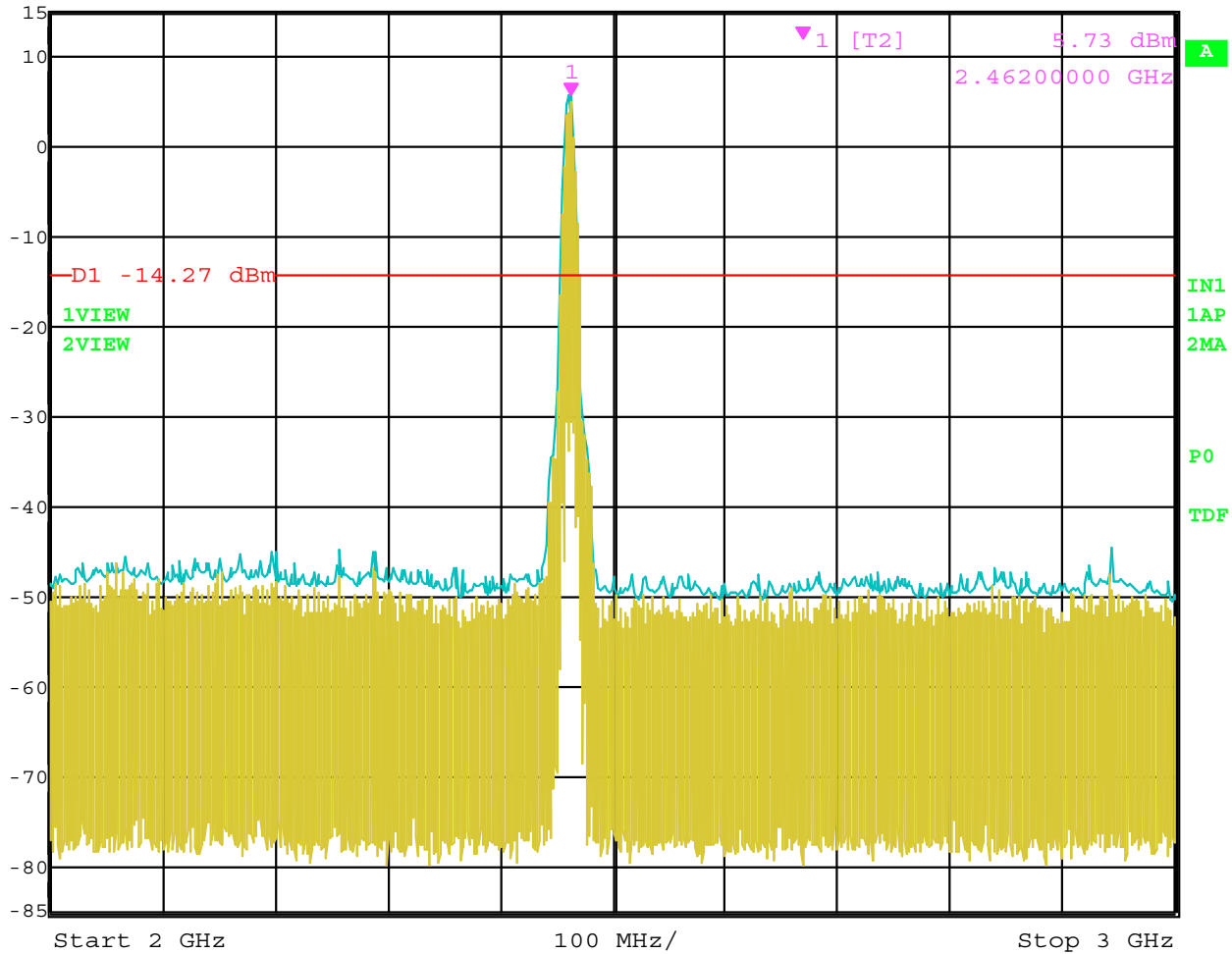


Date: 17.MAR.2005 14:26:27

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



Ref Lvl 15 dBm
Marker 1 [T2] 5.73 dBm
2.46200000 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 250 ms Unit dBm

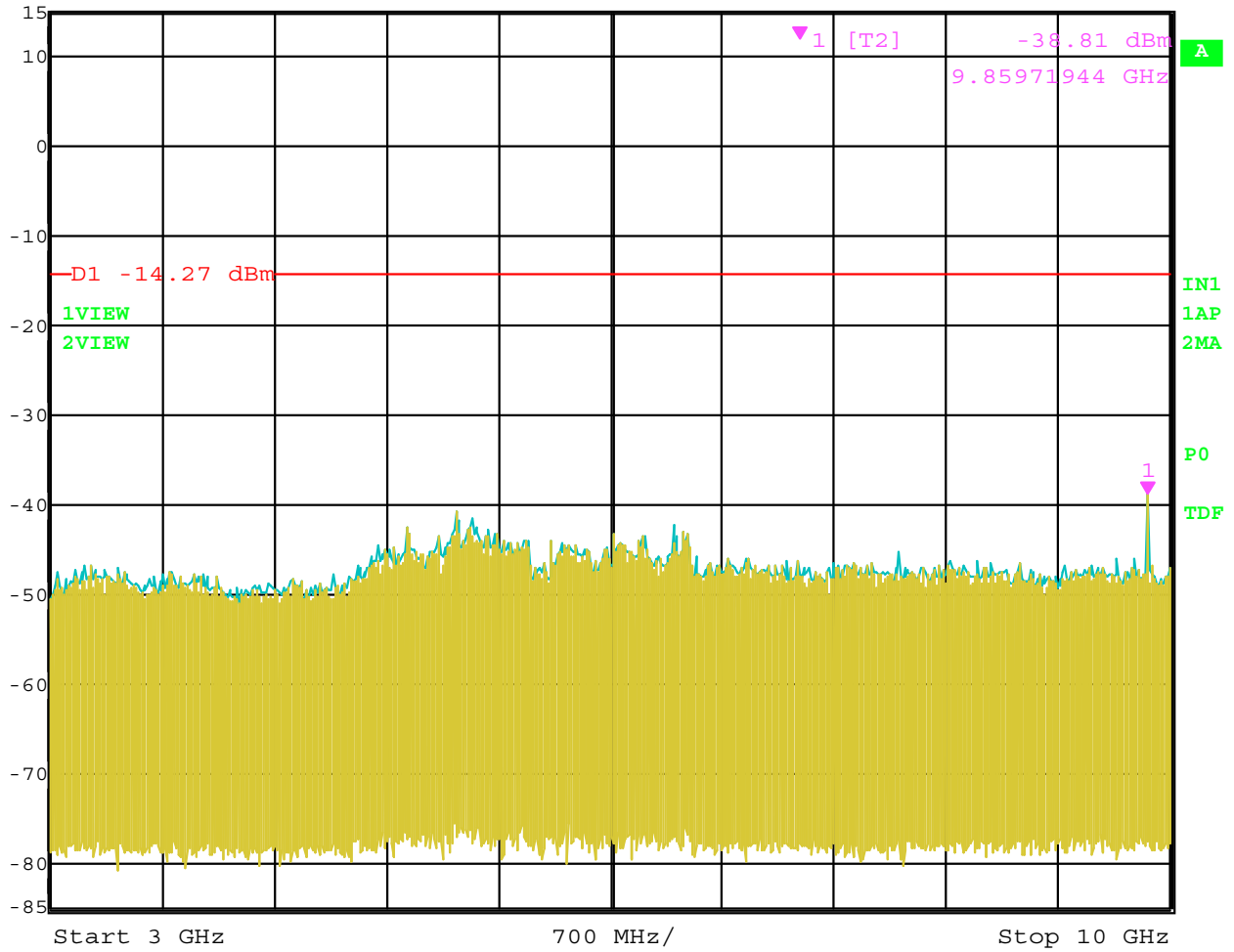


Date: 17.MAR.2005 14:25:45

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-38.81 dBm VBW 300 kHz
9.85971944 GHz SWT 1.75 s Unit dBm

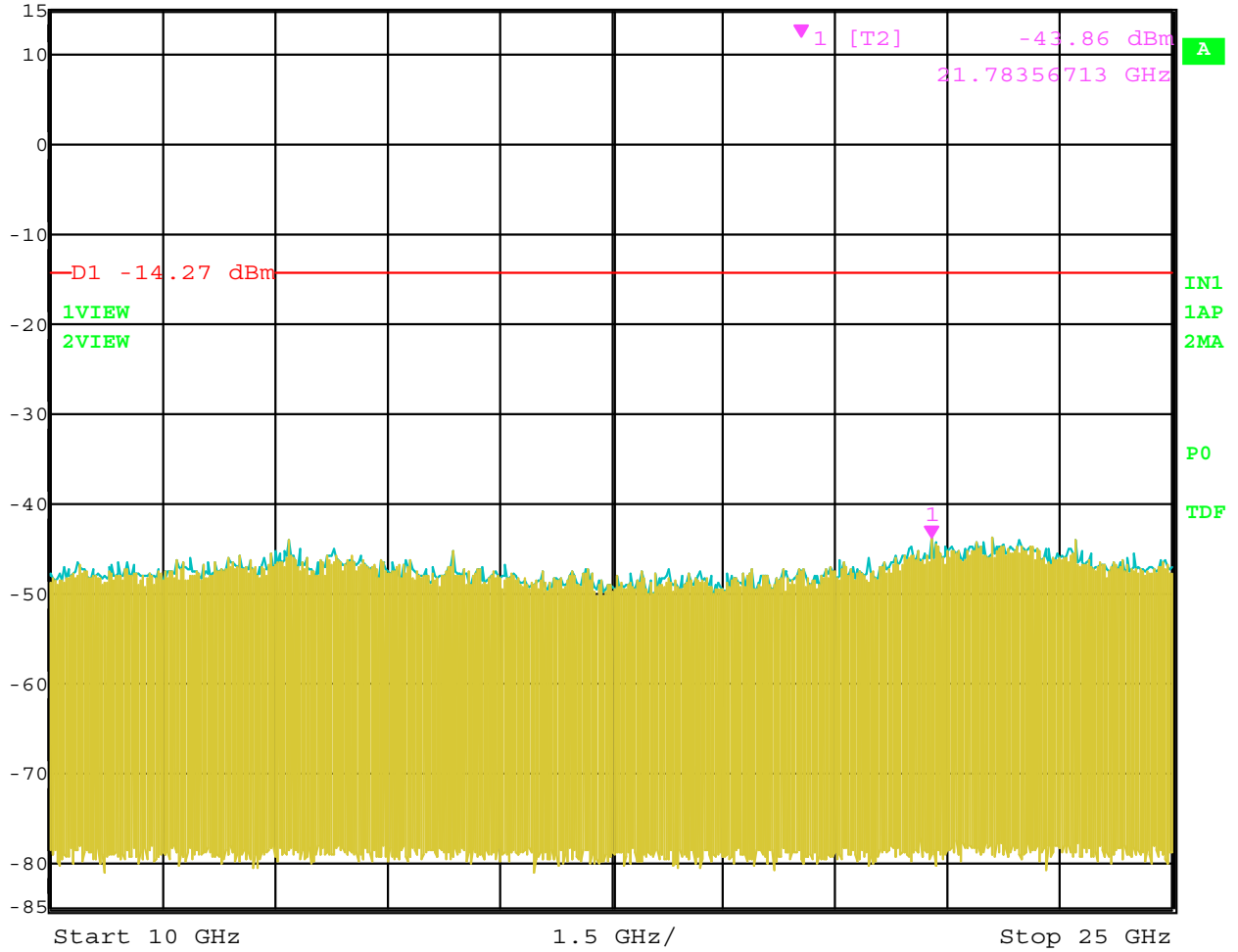


Date: 17.MAR.2005 14:26:56

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



Ref Lvl 15 dBm
Marker 1 [T2] -43.86 dBm
21.78356713 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 3.8 s Unit dBm

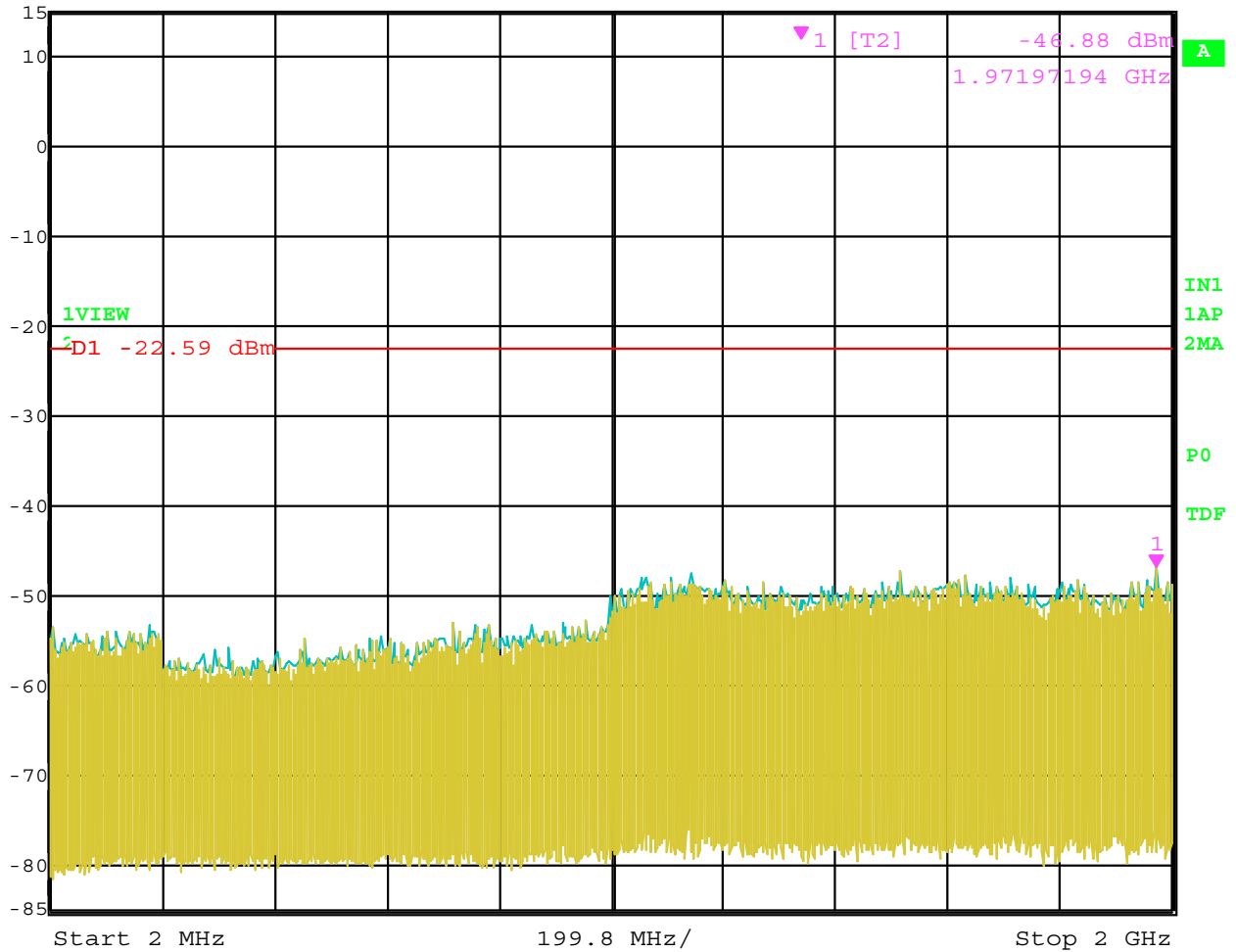


Date: 17.MAR.2005 14:27:31

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-46.88 dBm	VBW	300 kHz		
	1.97197194 GHz	SWT	1.15 s	Unit	dBm

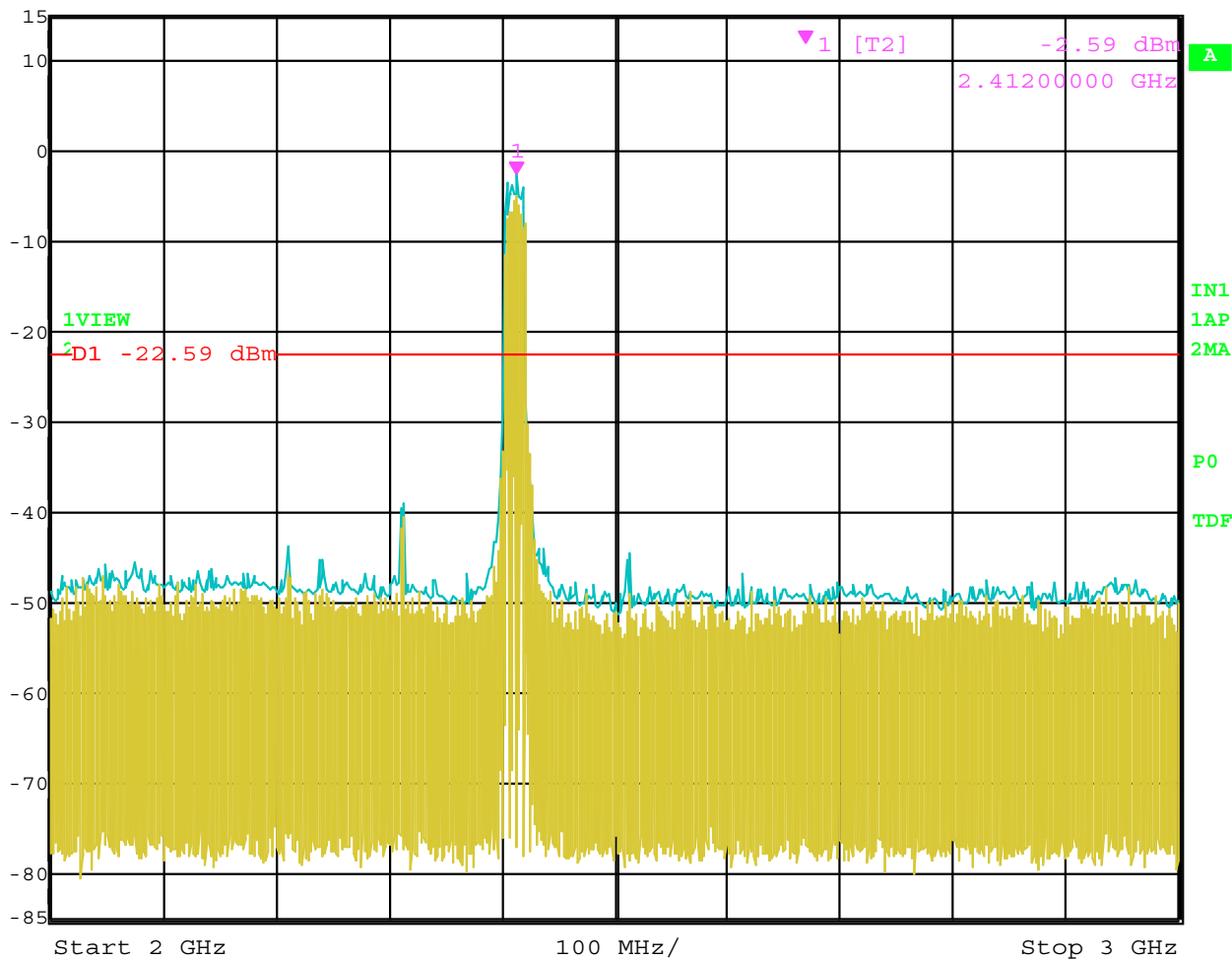


Date: 17.MAR.2005 16:09:54

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



Ref Lvl 15 dBm
Marker 1 [T2] -2.59 dBm
2.41200000 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 250 ms Unit dBm

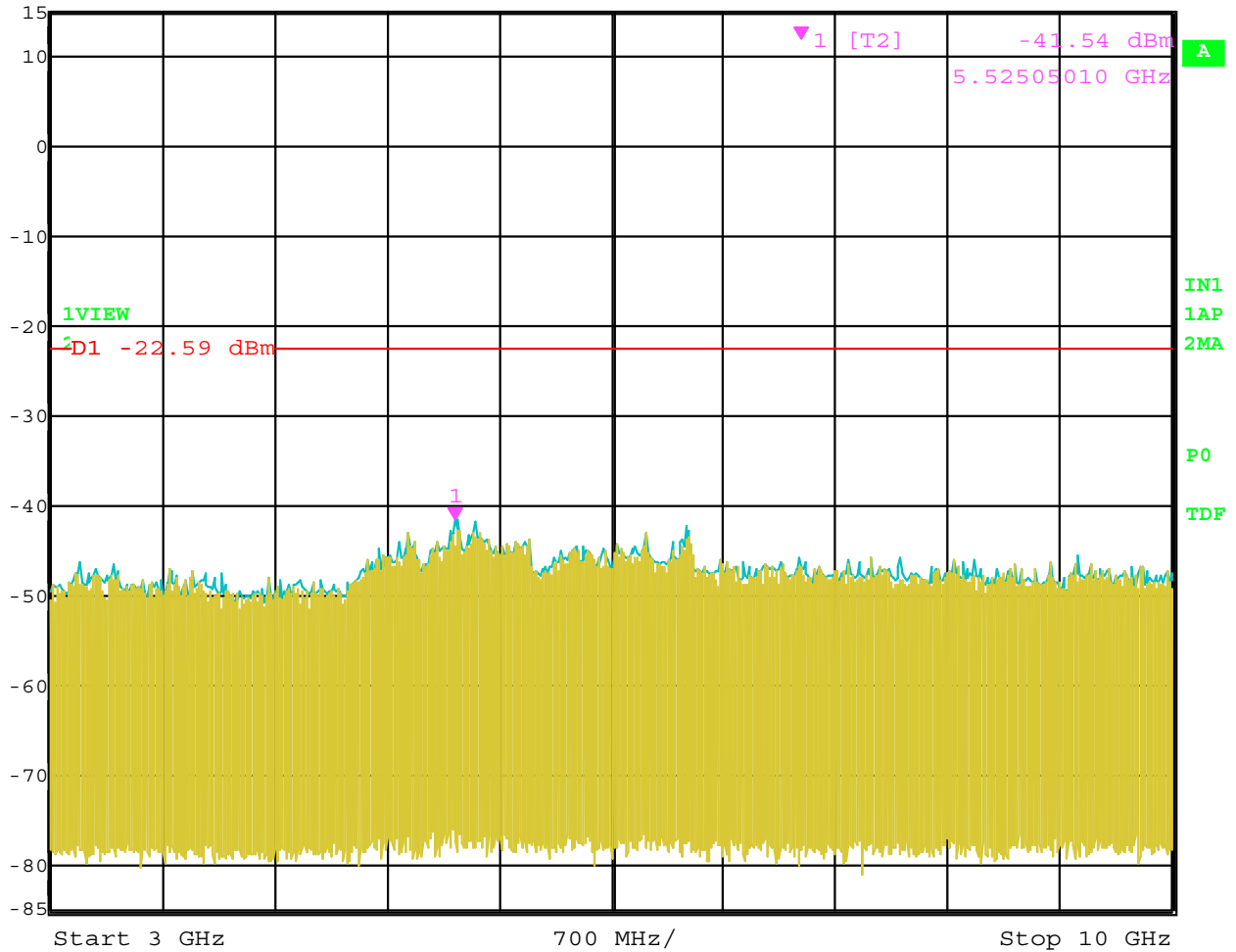


Date: 17.MAR.2005 16:09:20

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-41.54 dBm VBW 300 kHz
5.52505010 GHz SWT 1.75 s Unit dBm

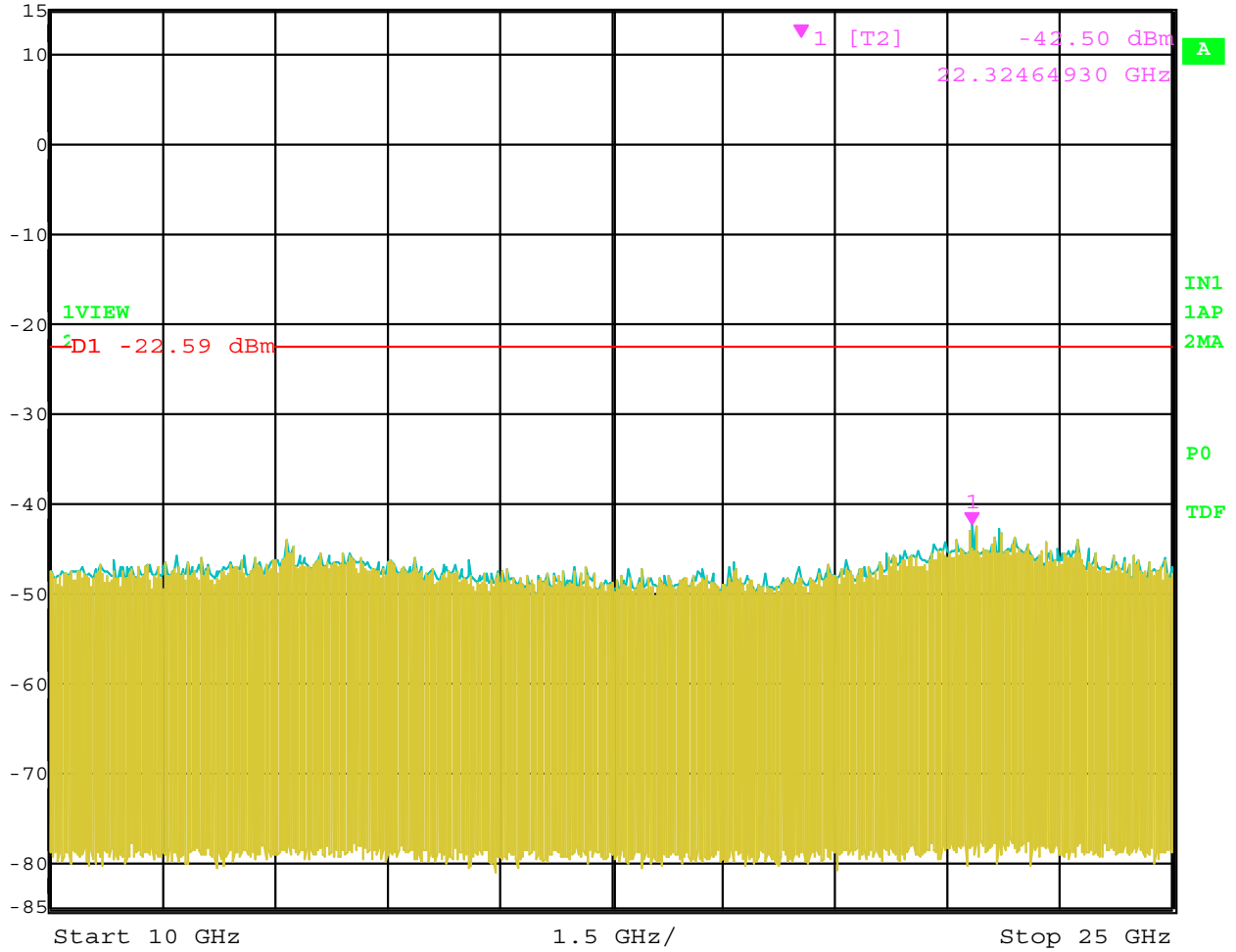


Date: 17.MAR.2005 16:10:28

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-42.50 dBm VBW 300 kHz
22.32464930 GHz SWT 3.8 s Unit dBm

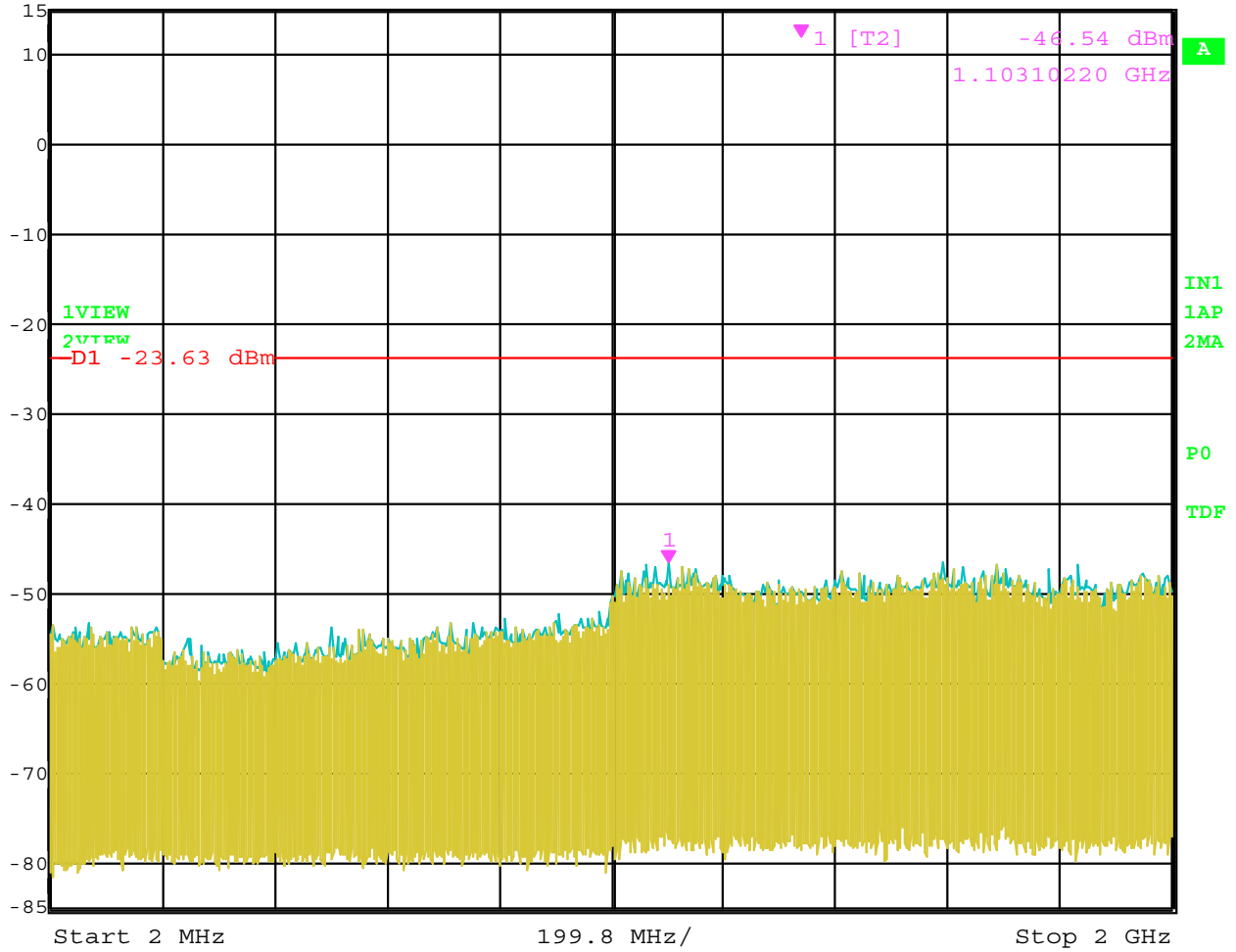


Date: 17.MAR.2005 16:11:01

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-46.54 dBm	VBW	300 kHz		
	1.10310220 GHz	SWT	1.15 s	Unit	dBm

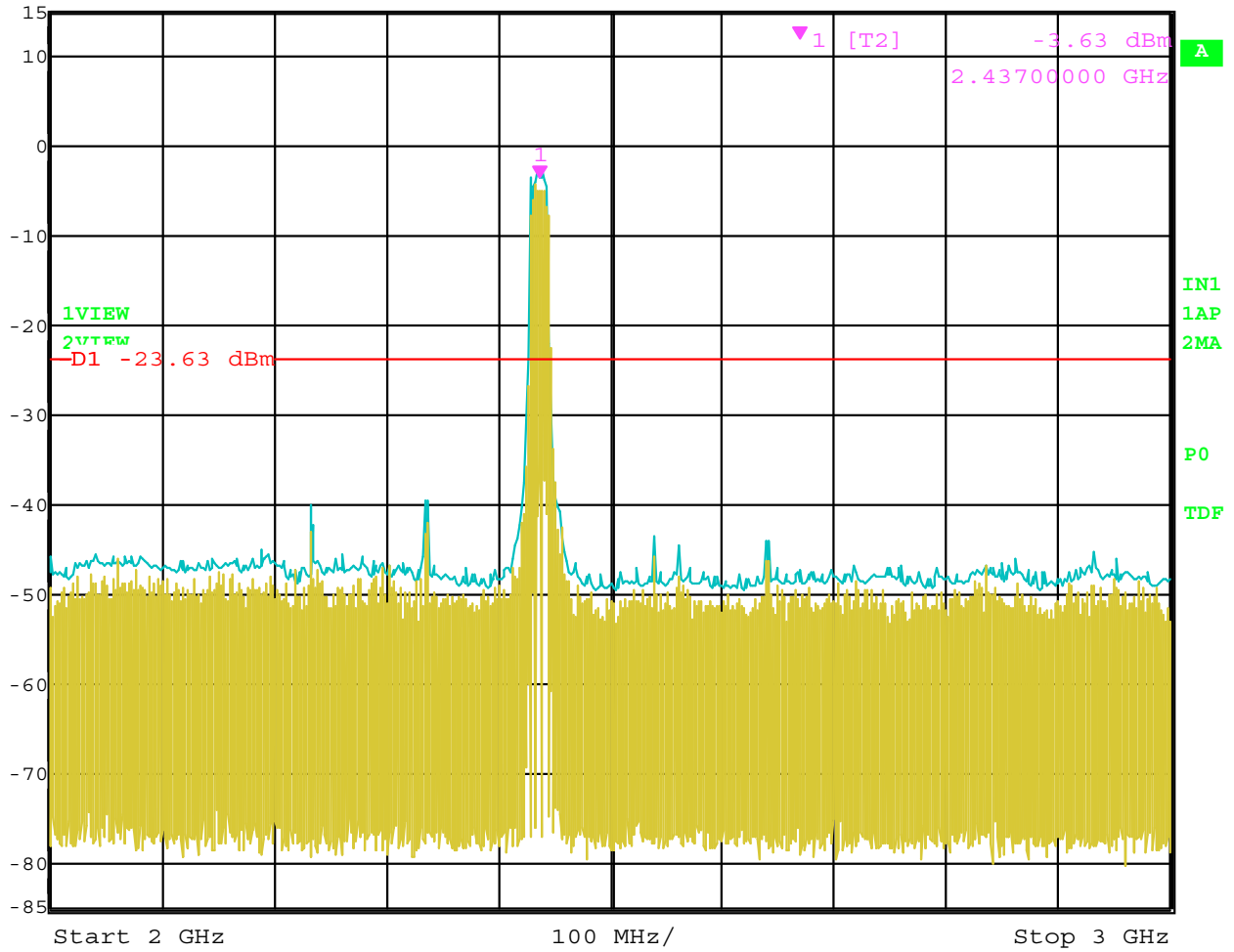


Date: 17.MAR.2005 14:44:16

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



Ref Lvl 15 dBm
Marker 1 [T2] -3.63 dBm
2.43700000 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 250 ms Unit dBm

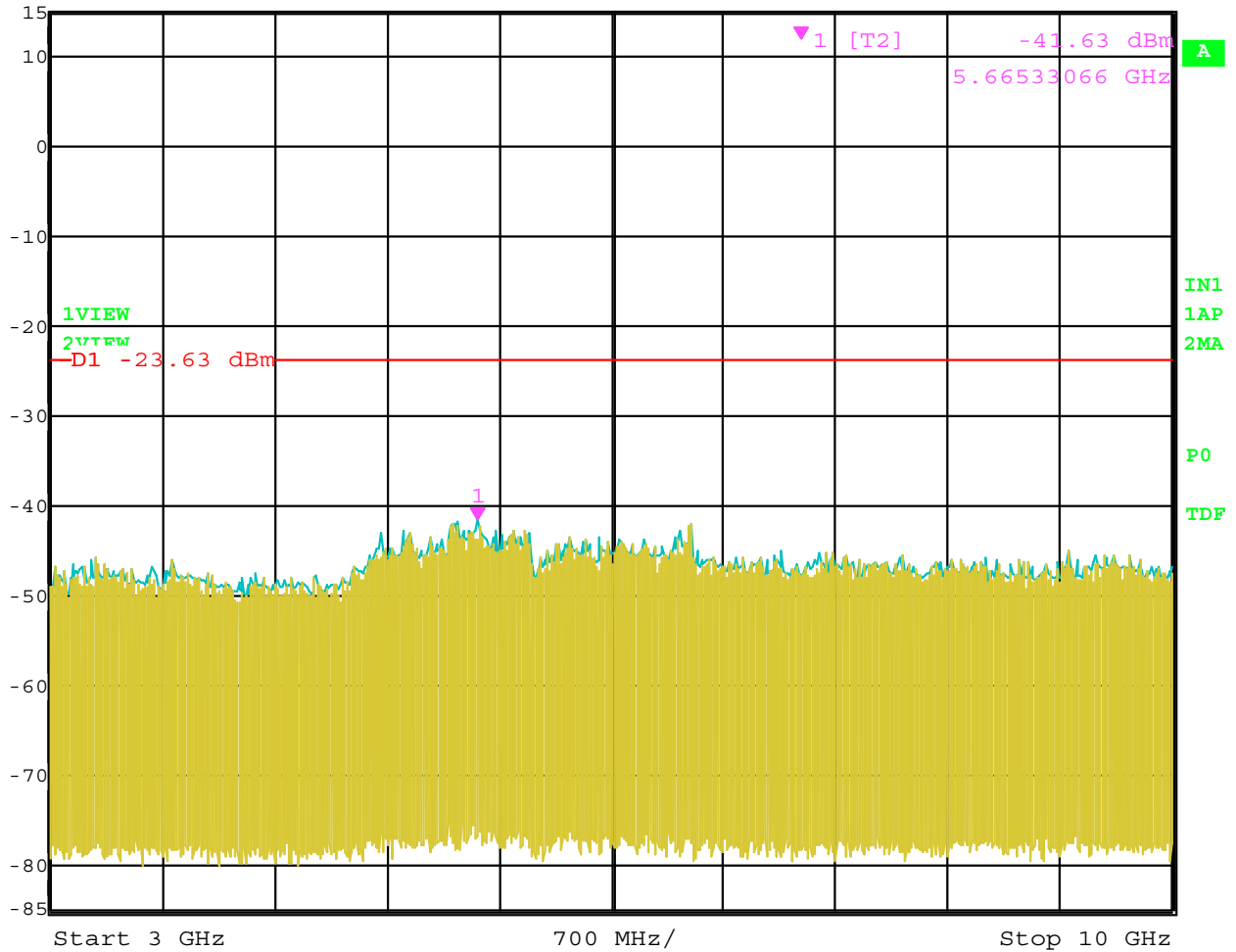


Date: 17.MAR.2005 14:43:47

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -41.63 dBm VBW 300 kHz
15 dBm 5.66533066 GHz SWT 1.75 s Unit dBm

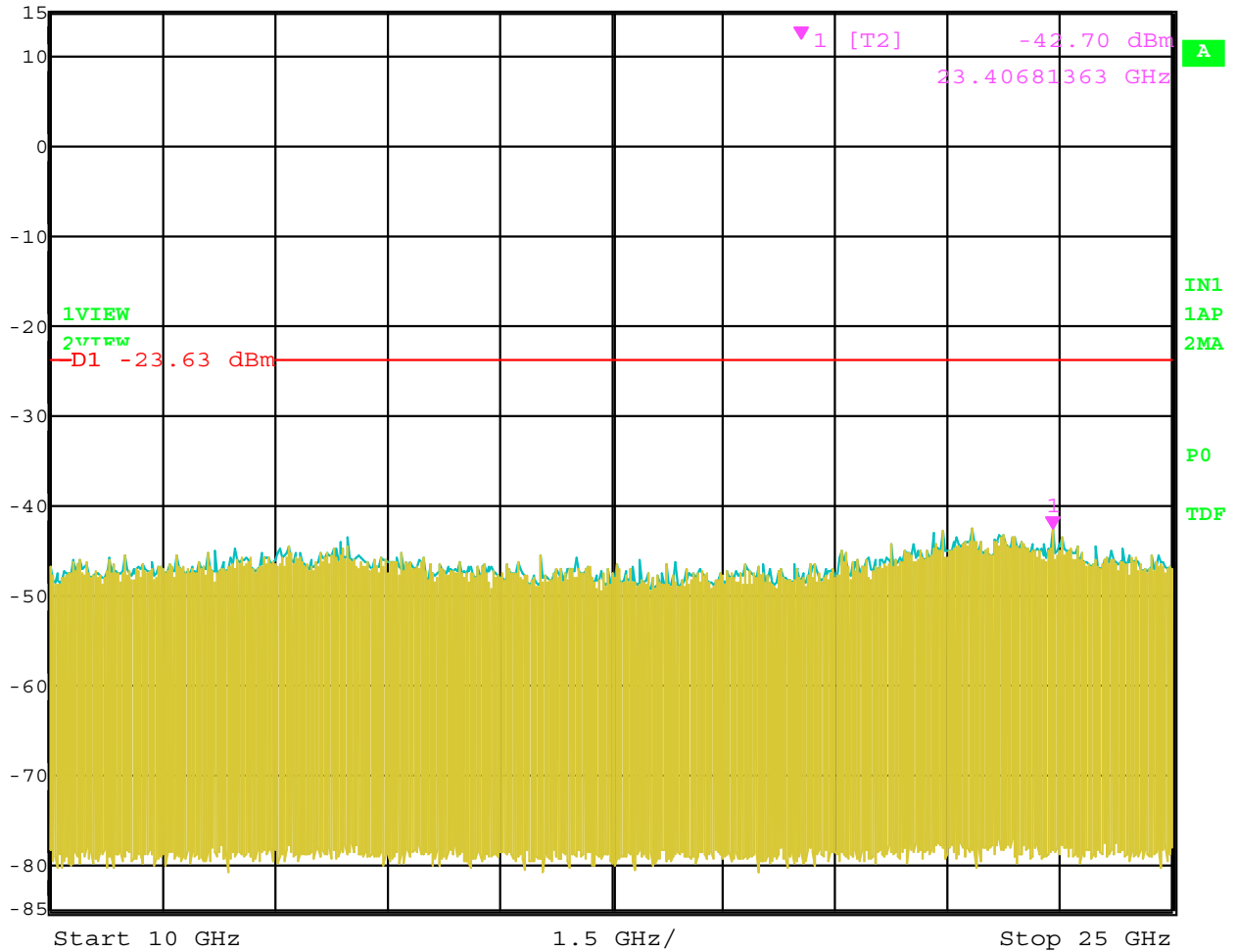


Date: 17.MAR.2005 14:44:44

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-42.70 dBm VBW 300 kHz
23.40681363 GHz SWT 3.8 s Unit dBm

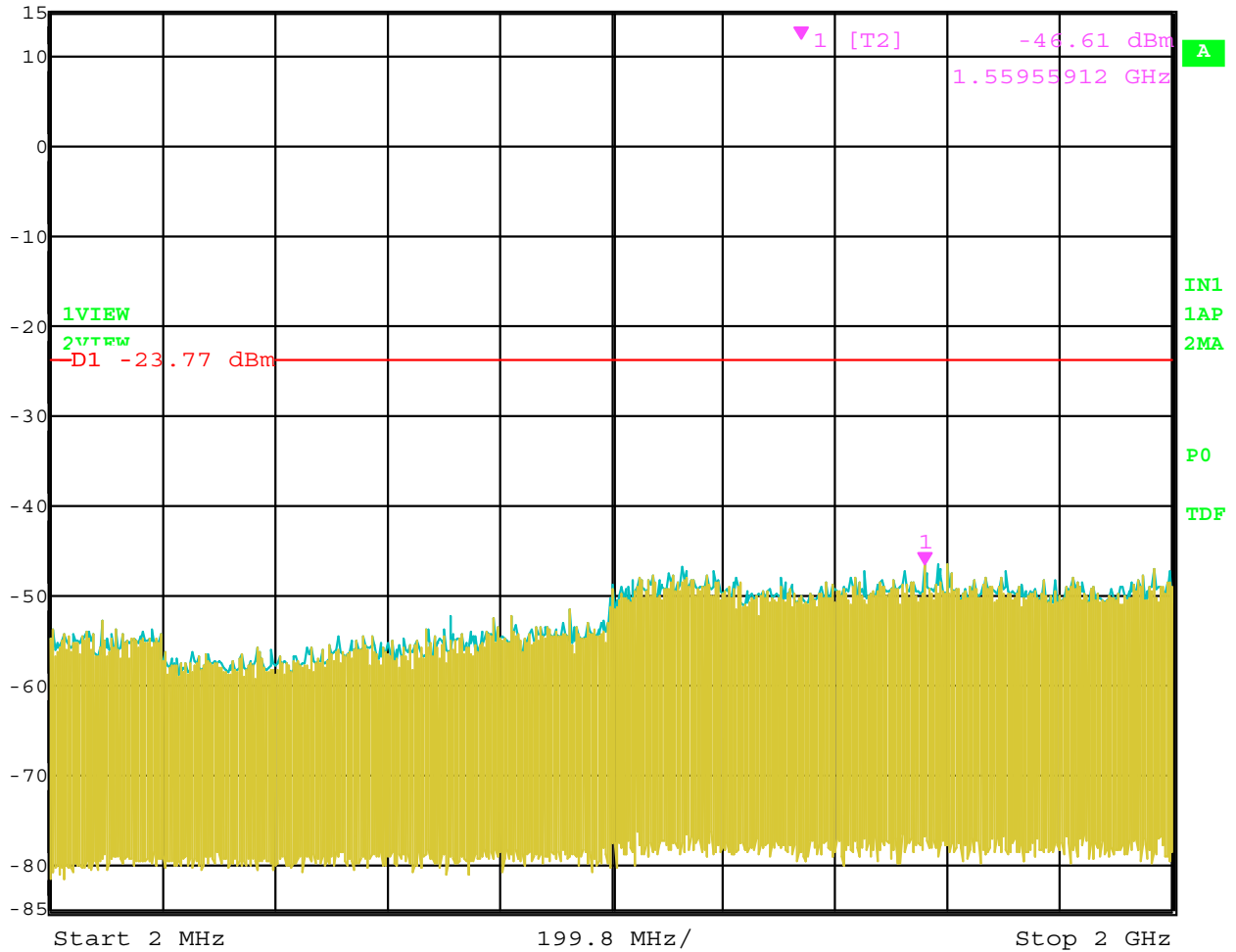


Date: 17.MAR.2005 14:45:18

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-46.61 dBm	VBW	300 kHz		
	1.55955912 GHz	SWT	1.15 s	Unit	dBm

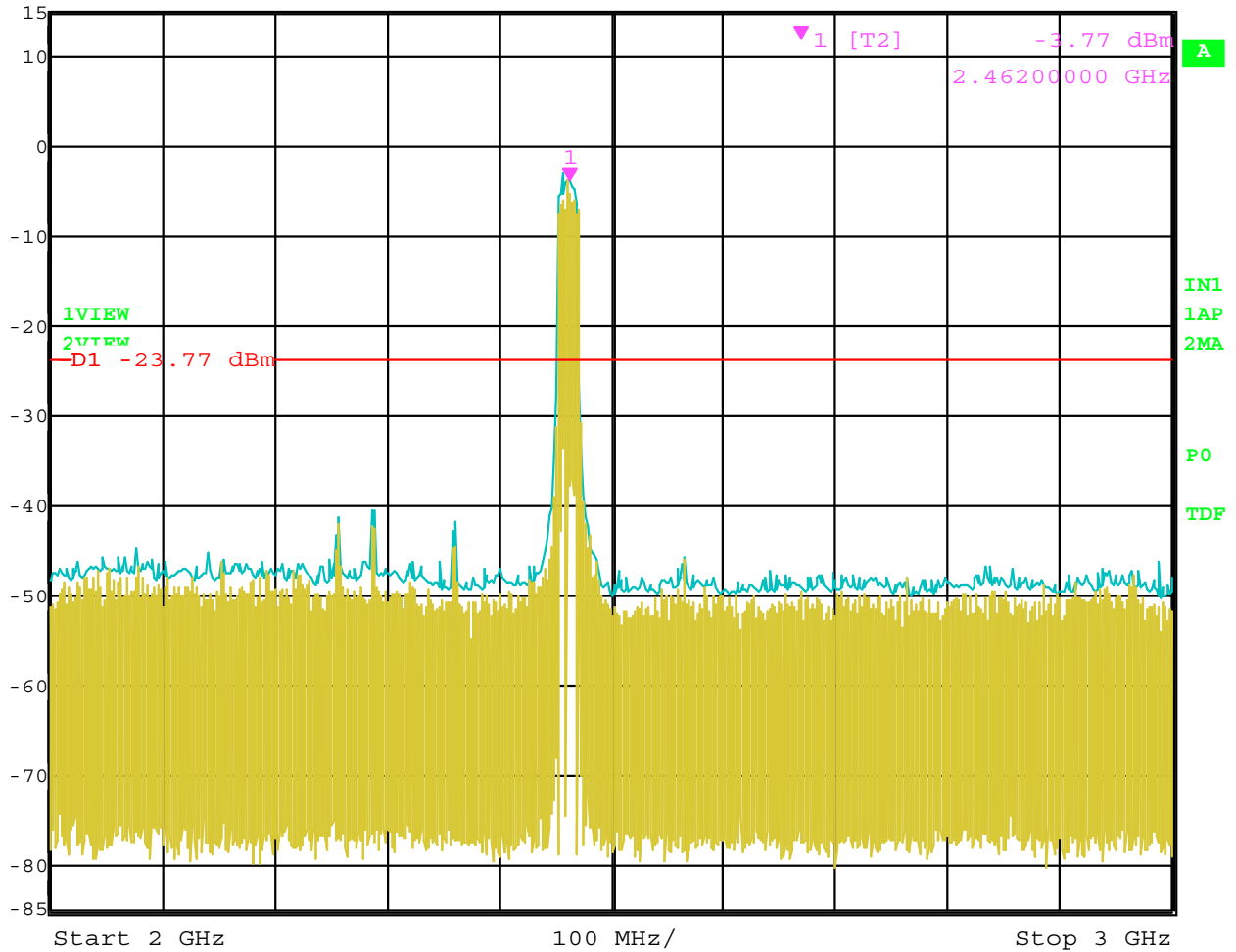


Date: 17.MAR.2005 14:40:12

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -3.77 dBm VBW 300 kHz
15 dBm 2.46200000 GHz SWT 250 ms Unit dBm

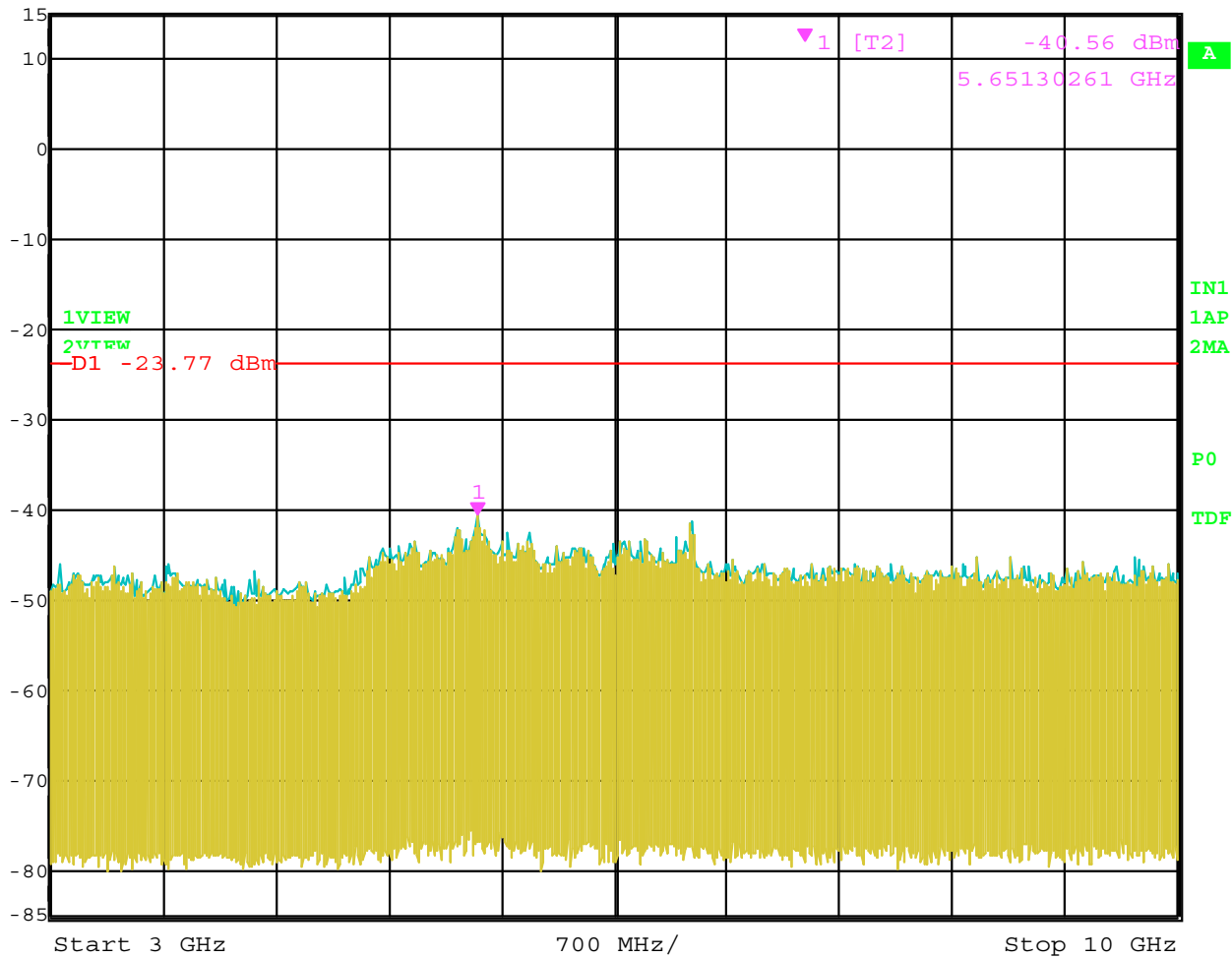


Date: 17.MAR.2005 14:39:42

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -40.56 dBm VBW 300 kHz
15 dBm 5.65130261 GHz SWT 1.75 s Unit dBm

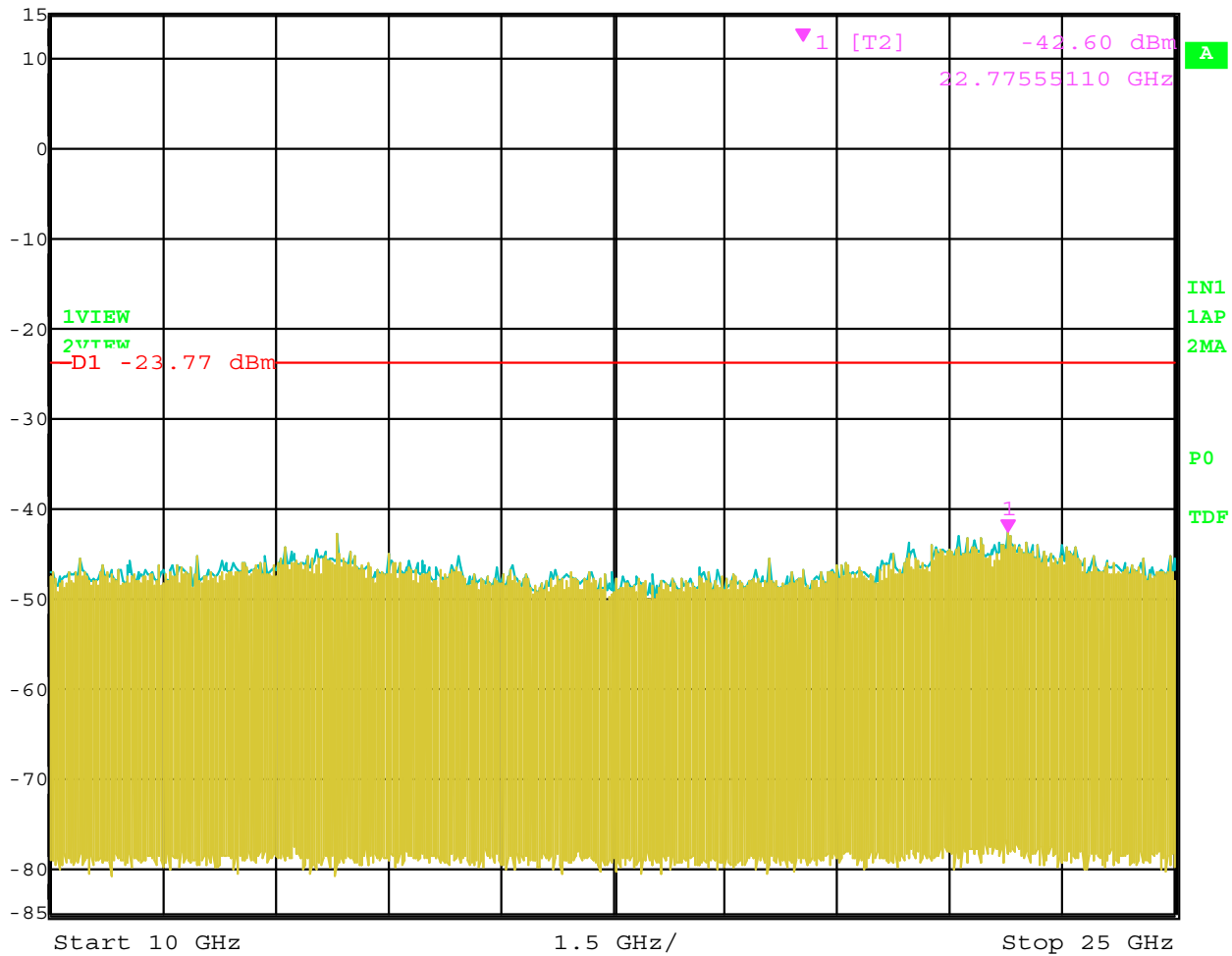


Date: 17.MAR.2005 14:40:44

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

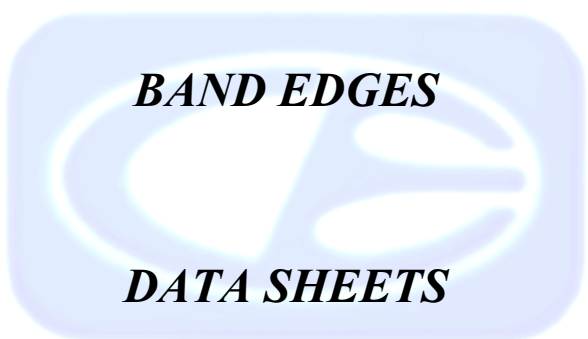


Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -42.60 dBm VBW 300 kHz
15 dBm 22.7755110 GHz SWT 3.8 s Unit dBm



Date: 17.MAR.2005 14:41:19

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



BAND EDGES

DATA SHEETS

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna

Channel 1 - 802.11 b Mode Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Channel 6 - 802.11 b Mode Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

Channel 11 - 802.11 b Mode Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	101.32	V	--	--	Peak	1.15	225	Fundamental of Channel 1
2412	95.09	V	--	--	Avg	1.15	225	@ 3 meters
2390	53.28	V	74	-20.72	Peak	1.15	225	No Marker Delta Method
2390	39.12	V	54	-14.88	Avg	1.15	225	Method Used
2311.8	52.31	V	74	-21.69	Peak	1.15	225	No Marker Delta Method
2311.8	43.43	V	54	-10.57	Avg	1.15	225	Method Used
2437	102.29	V	--	--	Peak	3.79	225	Fundamental of Channel 6
2437	96.22	V	--	--	Avg	3.79	225	@ 3 meters
2462	99.99	V	--	--	Peak	3.2	225	Fundamental of Channel 11
2462	93.44	V	--	--	Avg	3.2	225	@ 3 meters
2462.9	50.54	V	74	-23.46	Peak	3.2	225	No Marker Delta Method
2462.9	39.19	V	54	-14.81	Avg	3.2	225	Method Used
2487.3	50.91	V	74	-23.09	Peak	3.2	225	No Marker Delta Method
2485.5	38.69	V	54	-15.31	Avg	3.2	225	Method Used

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05
 Lab: B
 Tested By: Kyle Fujimoto

With Hitachi Antenna

Channel 1 - 802.11 b Mode Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Channel 6 - 802.11 b Mode Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

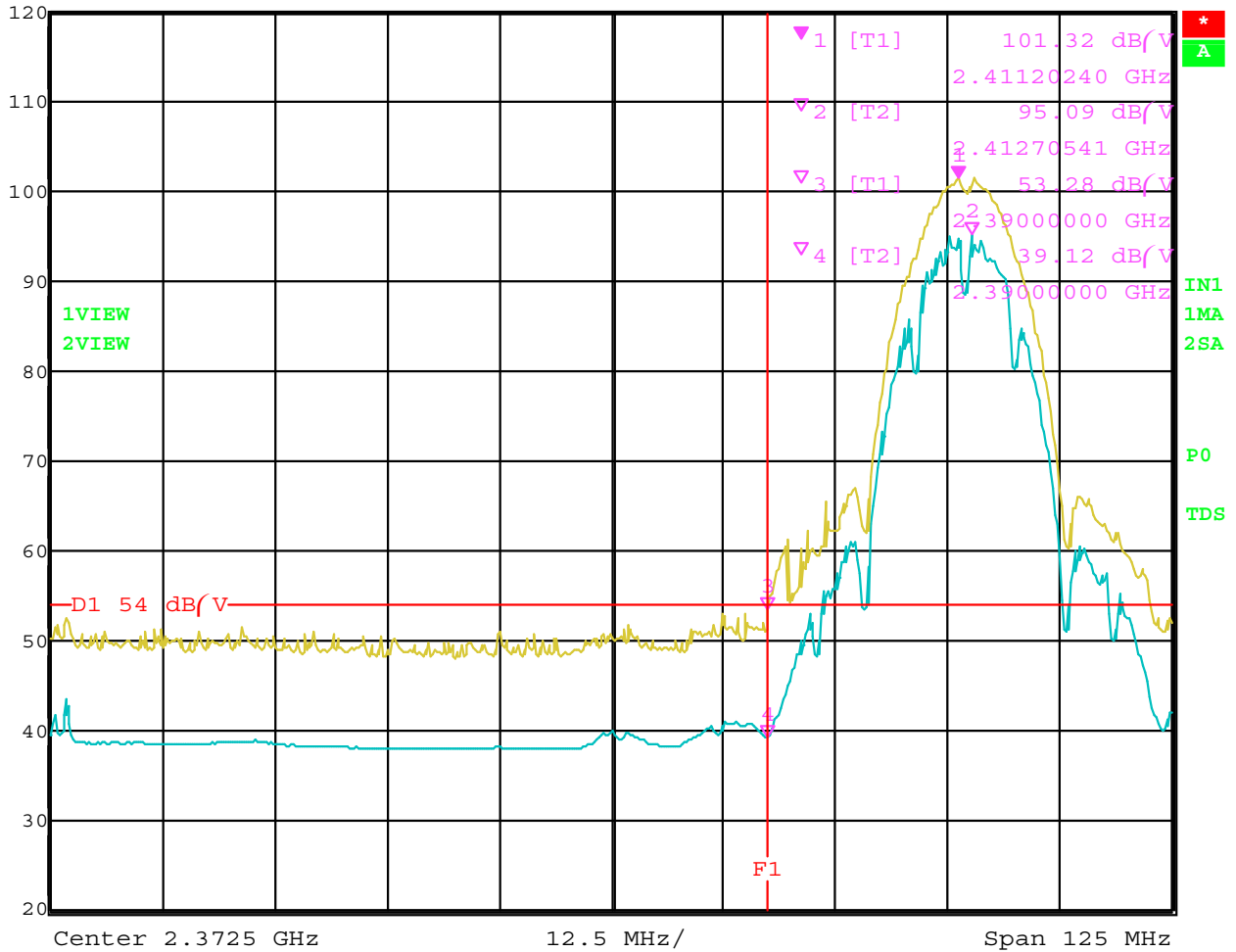
Channel 11 - 802.11 b Mode Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	104.87	H	--	--	Peak	1	180	Fundamental of Channel 1
2412	97.98	H	--	--	Avg	1	180	@ 3 meters
2390	51.84	H	74	-22.16	Peak	1	180	No Marker Delta Method
2390	39.87	H	54	-14.13	Avg	1	180	Method Used
2387.7	53.85	H	74	-20.15	Peak	1	180	No Marker Delta Method
2385.2	41.98	H	54	-12.02	Avg	1	180	Method Used
2437	103.89	H	--	--	Peak	2.25	315	Fundamental of Channel 6
2437	97.08	H	--	--	Avg	2.25	315	@ 3 meters
2462	104.27	H	--	--	Peak	2.27	315	Fundamental of Channel 11
2462	97.56	H	--	--	Avg	2.27	315	@ 3 meters
2485.3	54.24	H	74	-19.76	Peak	2.27	315	No Marker Delta Method
2484.8	43.47	H	54	-10.53	Peak	2.27	315	Method Used
2486.6	53.69	H	74	-20.31	Peak	2.27	315	No Marker Delta Method
2485.5	42.26	H	54	-11.74	Peak	2.27	315	Method Used



Ref Lvl 120 dB/V
Marker 1 [T1] 101.32 dB/V
2.41120240 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

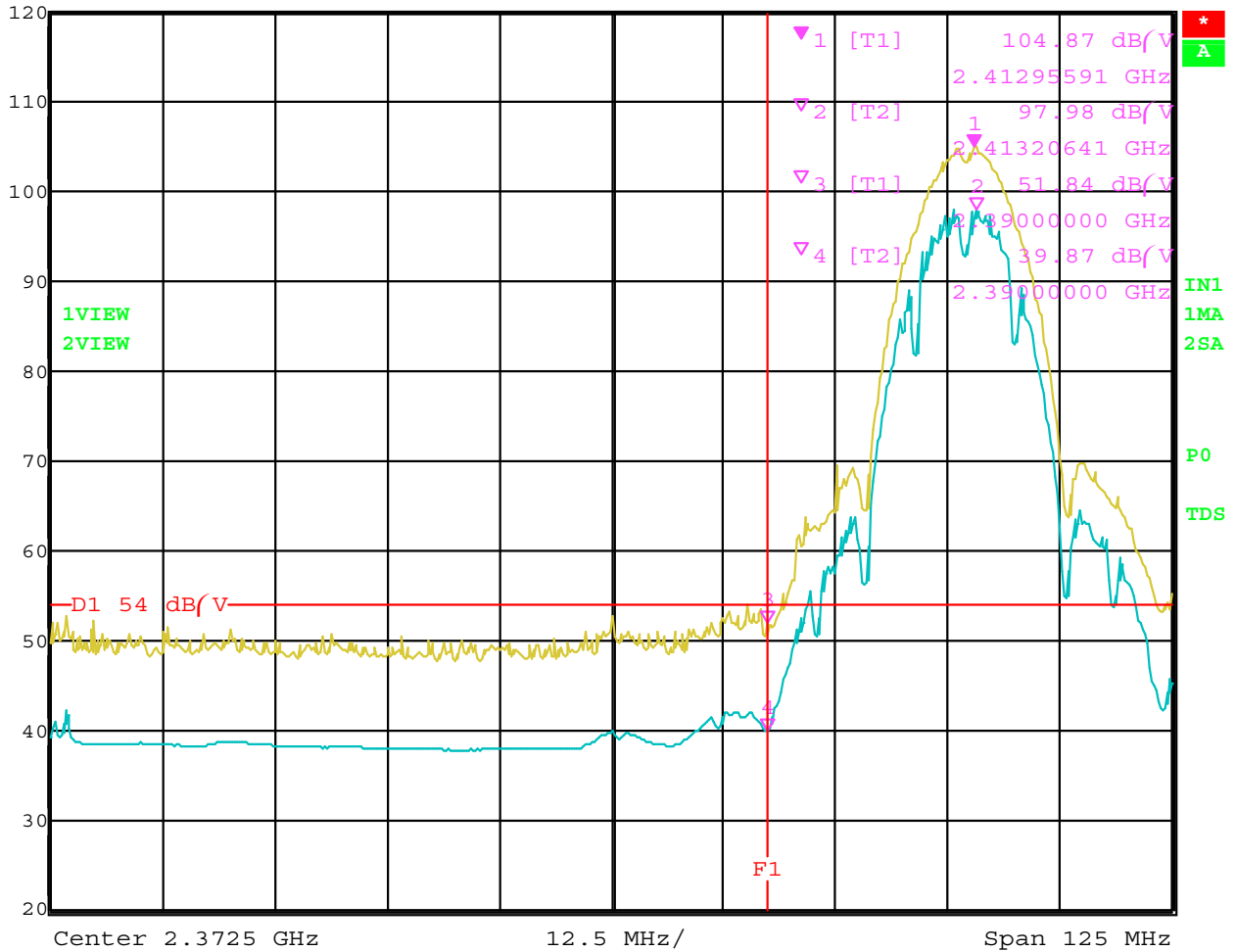


Date: 16.MAR.2005 18:55:28

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



Ref Lvl 120 dB/V
Marker 1 [T1] 104.87 dB/V
2.41295591 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

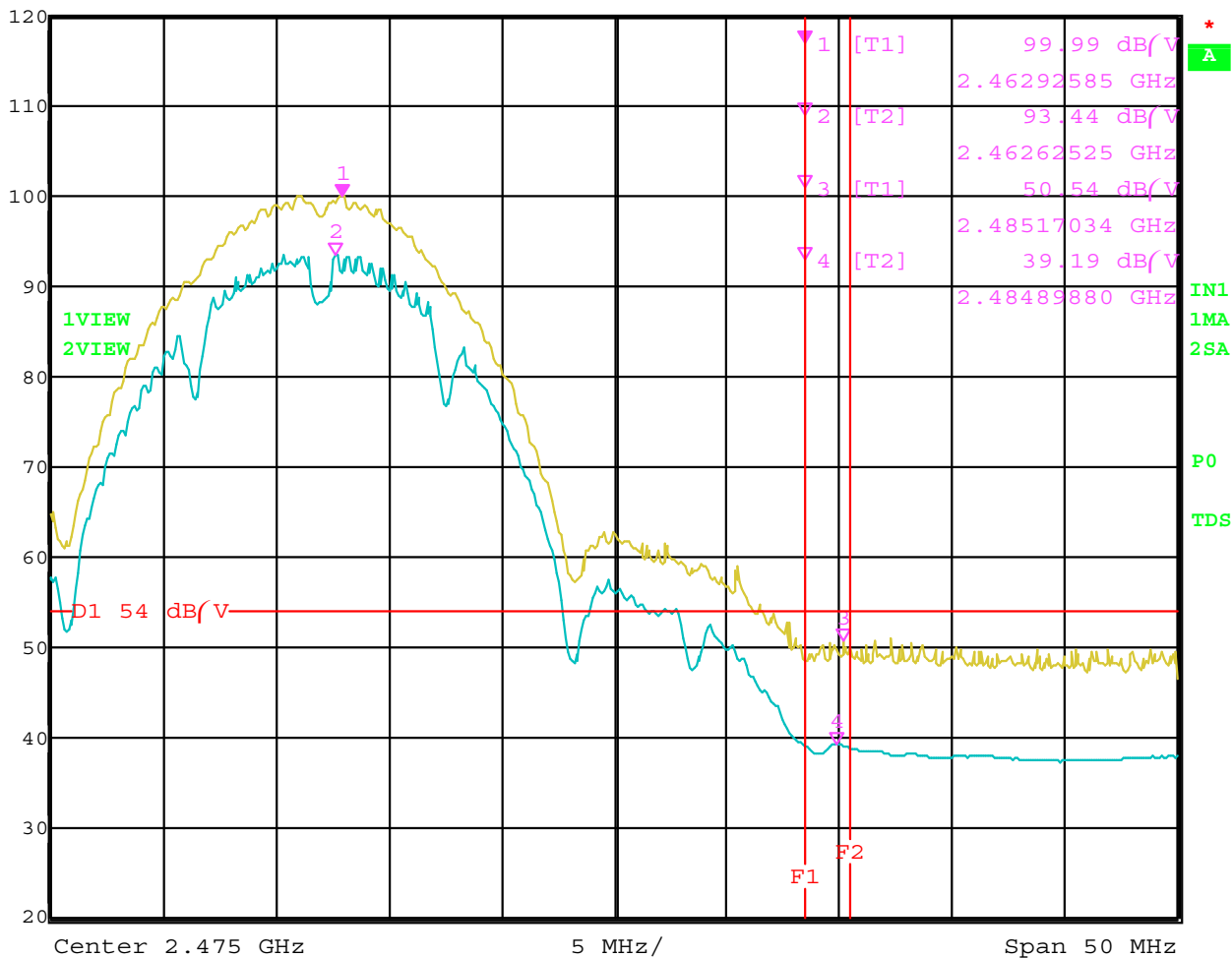


Date: 16.MAR.2005 18:50:17

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



Ref Lvl 120 dB/V
Marker 1 [T1] 99.99 dB/V
2.46292585 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 30 dB
Unit dB/V

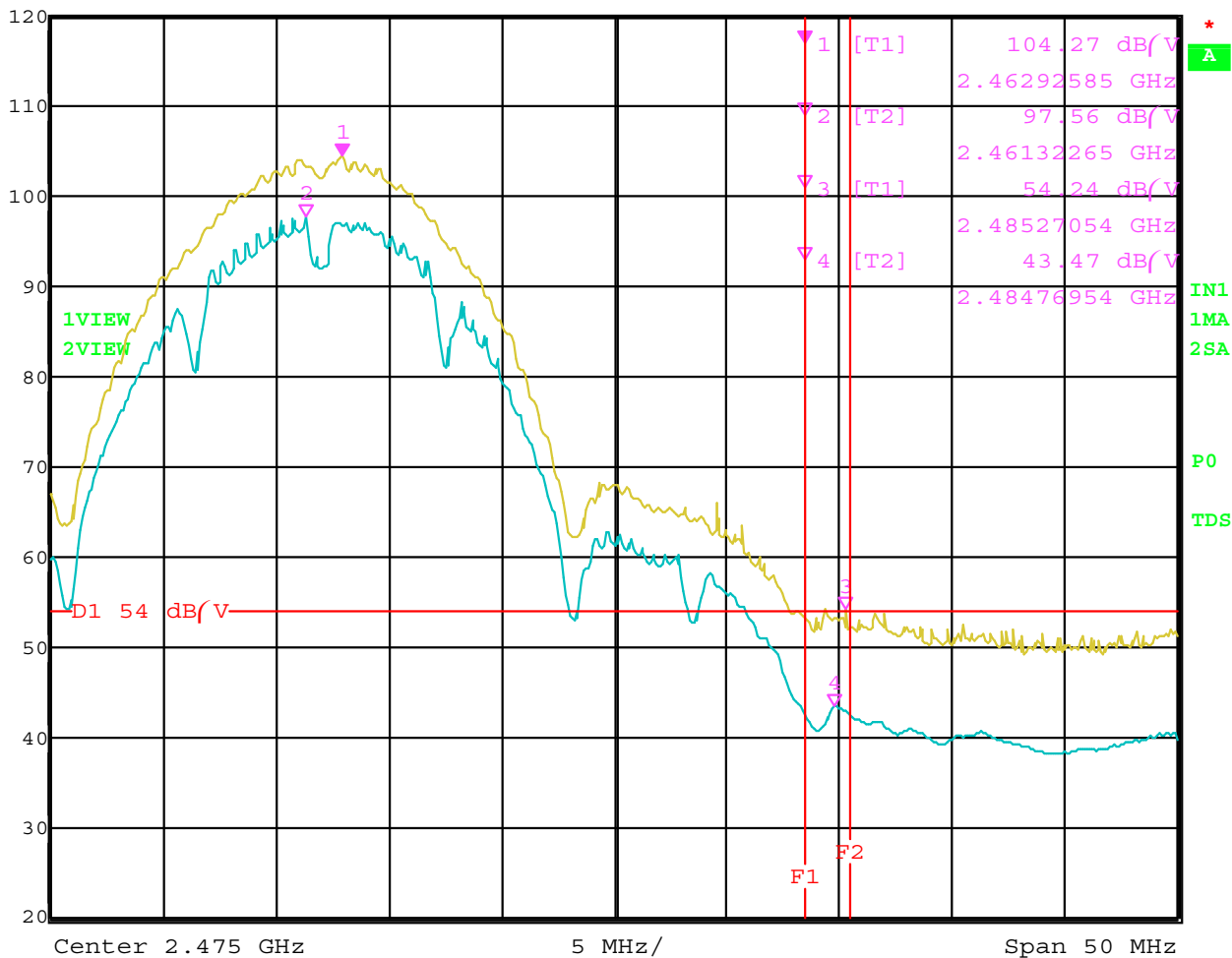


Date: 16.MAR.2005 19:13:07

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



Ref Lvl 120 dB/V
Marker 1 [T1] 104.27 dB/V
2.46292585 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 30 dB
Unit dB/V



Date: 16.MAR.2005 19:06:48

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

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

With Hitachi Antenna

Channel 1 - 802.11 g Mode Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm

Channel 6 - 802.11 g Mode Gain : 24.0 Peak Power: 16.62 dBm Avg. Power: 9.93 dBm

Channel 11 - 802.11 g Mode Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	98.87	V	--	--	Peak	2.31	90	Fundamental of Channel 1
2412	85.53	V	--	--	Avg	2.31	90	@ 3 meters
2390	55.82	V	74	-18.18	Peak	2.31	90	No Marker Delta Method
2390	41.7	V	54	-12.3	Avg	2.31	90	Method Used
2312.3	55.57	V	74	-18.43	Peak	2.31	90	No Marker Delta Method
2311.8	48.61	V	54	-5.39	Avg	2.31	90	Method Used
2437	97.73	V	--	--	Peak	3.59	225	Fundamental of Channel 6
2437	84.25	V	--	--	Avg	3.59	225	@ 3 meters
2462	97.62	V	--	--	Peak	3.78	225	Fundamental of Channel 11
2462	84.09	V	--	--	Avg	3.78	225	@ 3 meters
2483.5	56.72	V	74	-17.28	Peak	3.78	225	No Marker Delta Method
2483.5	42.18	V	54	-11.82	Avg	3.78	225	Method Used
2485.5	54.37	V	74	-19.63	Peak	3.78	225	No Marker Delta Method
2486.7	42.39	V	54	-11.61	Avg	3.78	225	Method Used

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Hitachi Antenna

Channel 1 - 802.11 g Mode Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm

Channel 6 - 802.11 g Mode Gain : 24.0 Peak Power: 16.62 dBm Avg. Power: 9.93 dBm

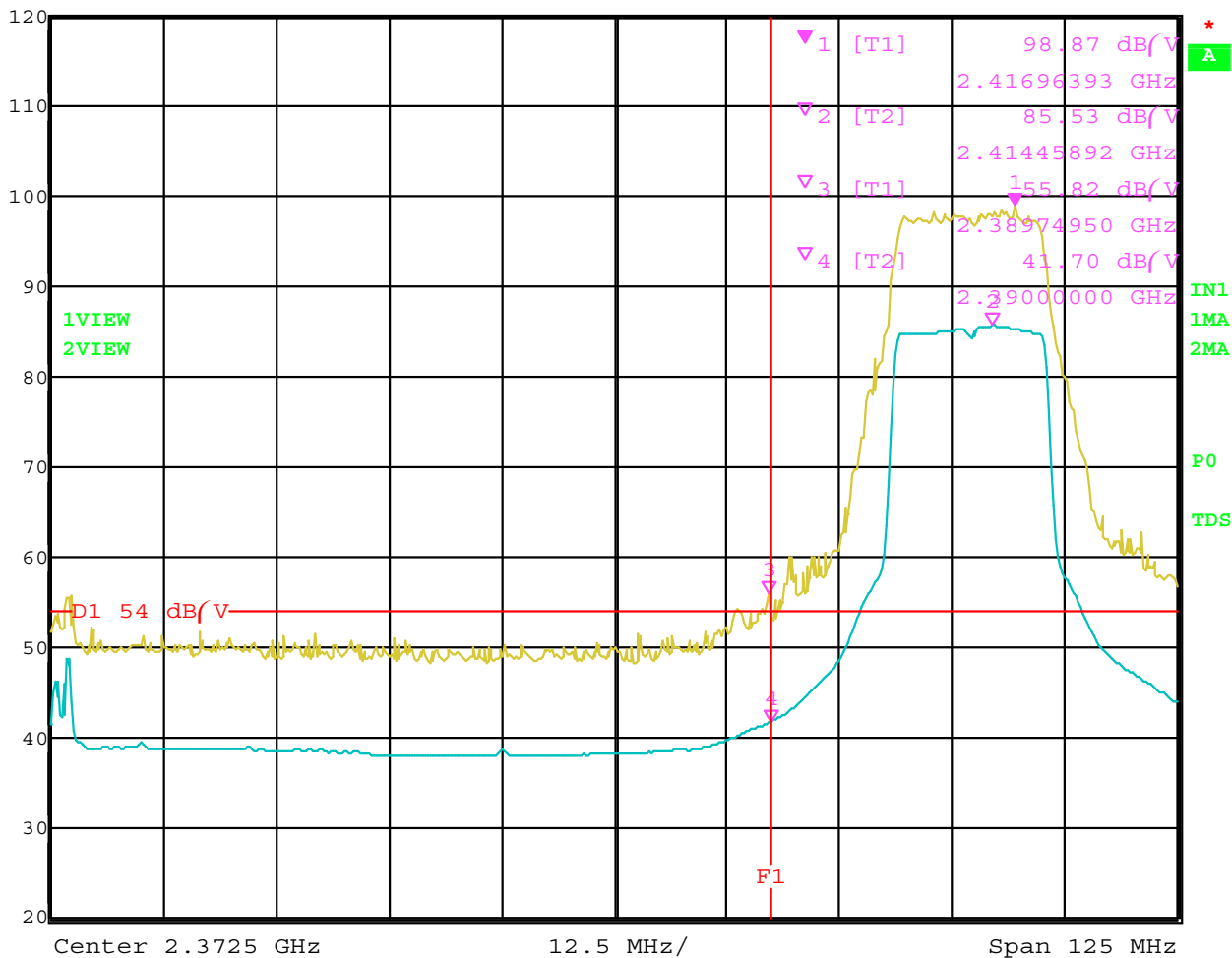
Channel 11 - 802.11 g Mode Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	100.49	H	--	--	Peak	3.44	180	Fundamental of Channel 1
2412	86.46	H	--	--	Avg	3.44	180	@ 3 meters
2390	56.18	H	74	-17.82	Peak	3.44	180	No Marker Delta Method
2390	42.14	H	54	-11.86	Avg	3.44	180	Method Used
2387.9	56.74	H	74	-17.26	Peak	3.44	180	No Marker Delta Method
2311.8	44.33	H	54	-9.67	Avg	3.44	180	Method Used
2437	100.01	H	--	--	Peak	2.56	225	Fundamental of Channel 6
2437	86.83	H	--	--	Avg	2.56	225	@ 3 meters
2462	97.12	H	--	--	Peak	1.89	225	Fundamental of Channel 11
2462	83.99	H	--	--	Avg	1.89	225	@ 3 meters
2483.5	53.37	H	74	-20.63	Peak	1.89	225	No Marker Delta Method
2483.5	40.25	H	54	-13.75	Peak	1.89	225	Method Used
2486.5	53.43	H	74	-20.57	Peak	1.89	225	No Marker Delta Method
2486.7	40.23	H	54	-13.77	Peak	1.89	225	Method Used



Ref Lvl 120 dB/V
Marker 1 [T1] 98.87 dB/V
2.41696393 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

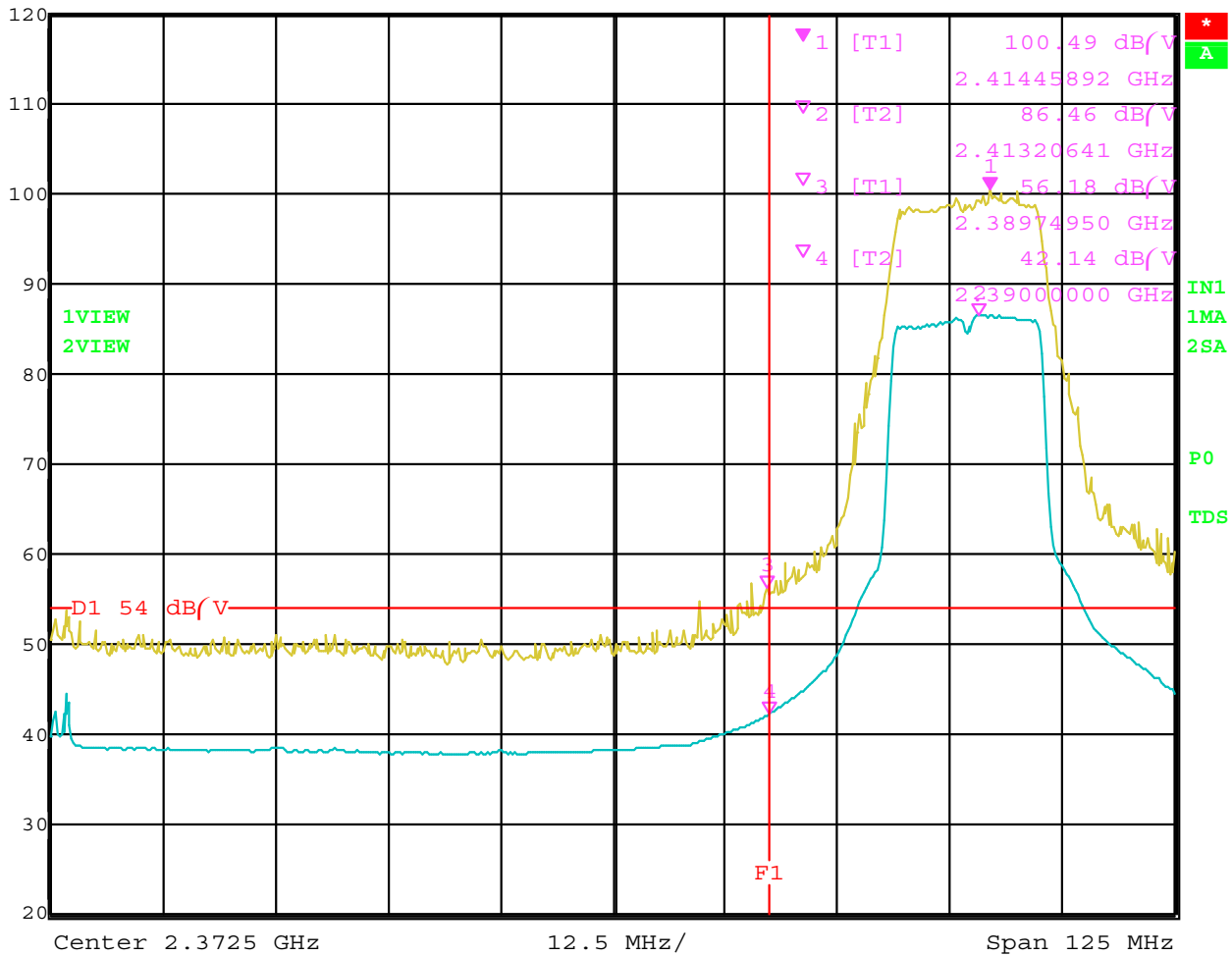


Date: 16.MAR.2005 19:53:39

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



Ref Lvl 120 dB/V
Marker 1 [T1] 100.49 dB/V
2.41445892 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

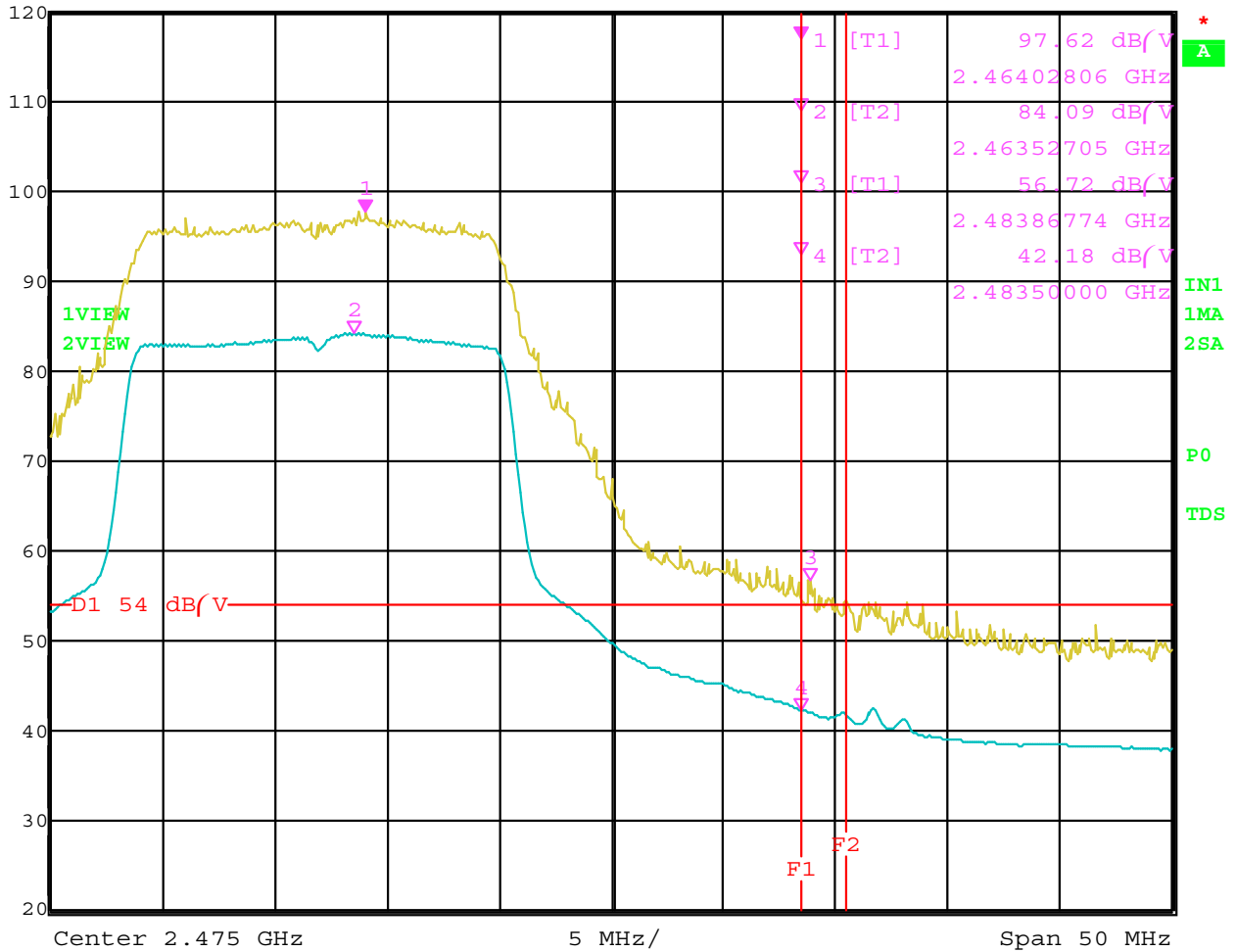


Date: 16.MAR.2005 20:01:18

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



Ref Lvl 120 dB/V
Marker 1 [T1] 97.62 dB/V
2.46402806 GHz
RBW 1 MHz
RF Att 30 dB
VBW 10 Hz
SWT 12.5 s
Unit dB/V

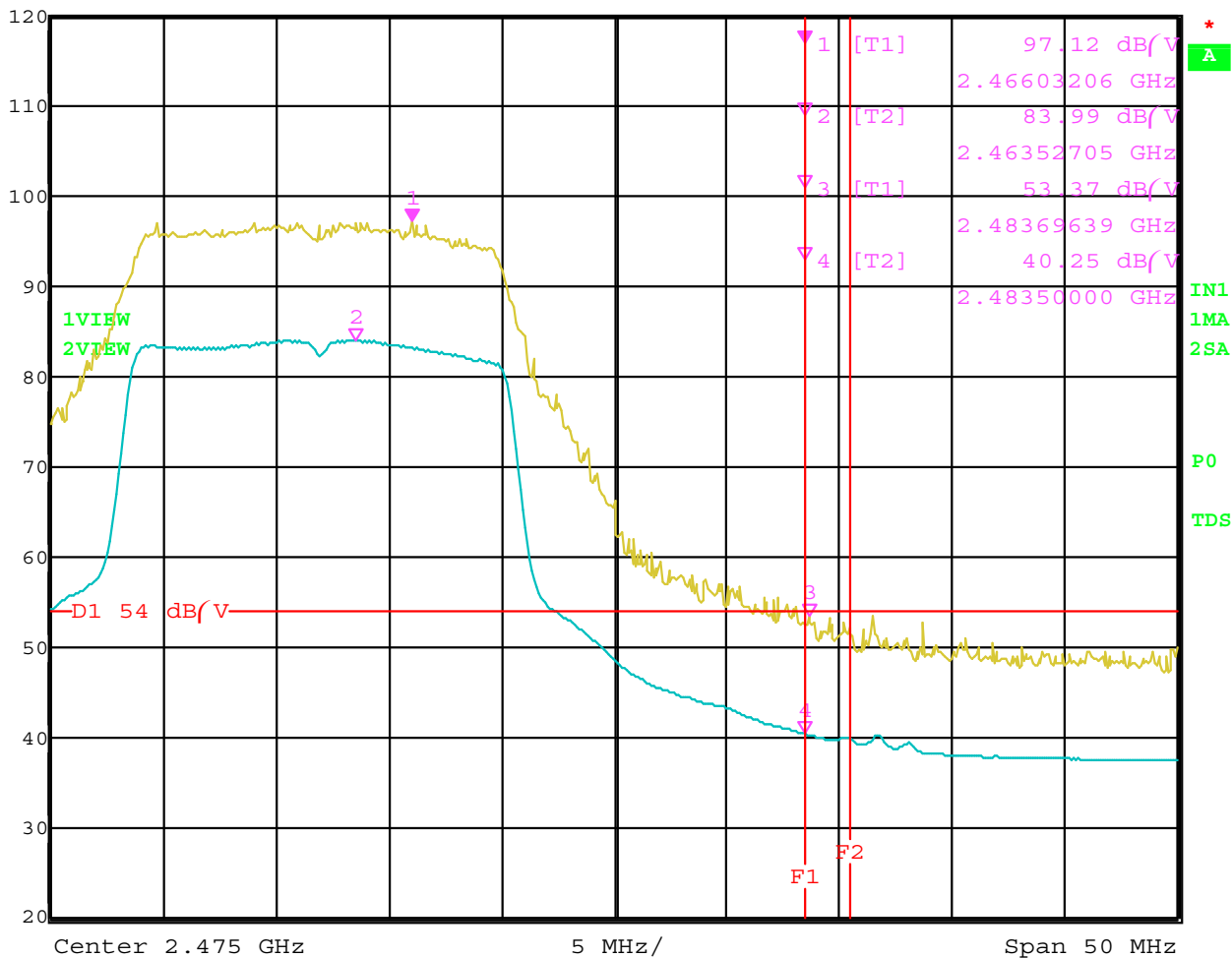


Date: 16.MAR.2005 19:30:56

Band Edge – Channel 11 – Vertical Polarization – 802.11 g Mode – Hitachi Antenna



Ref Lvl 120 dB/V
Marker 1 [T1] 97.12 dB/V
2.46603206 GHz
RBW 1 MHz
RF Att 30 dB
VBW 10 Hz
SWT 12.5 s
Unit dB/V



Date: 16.MAR.2005 19:35:51

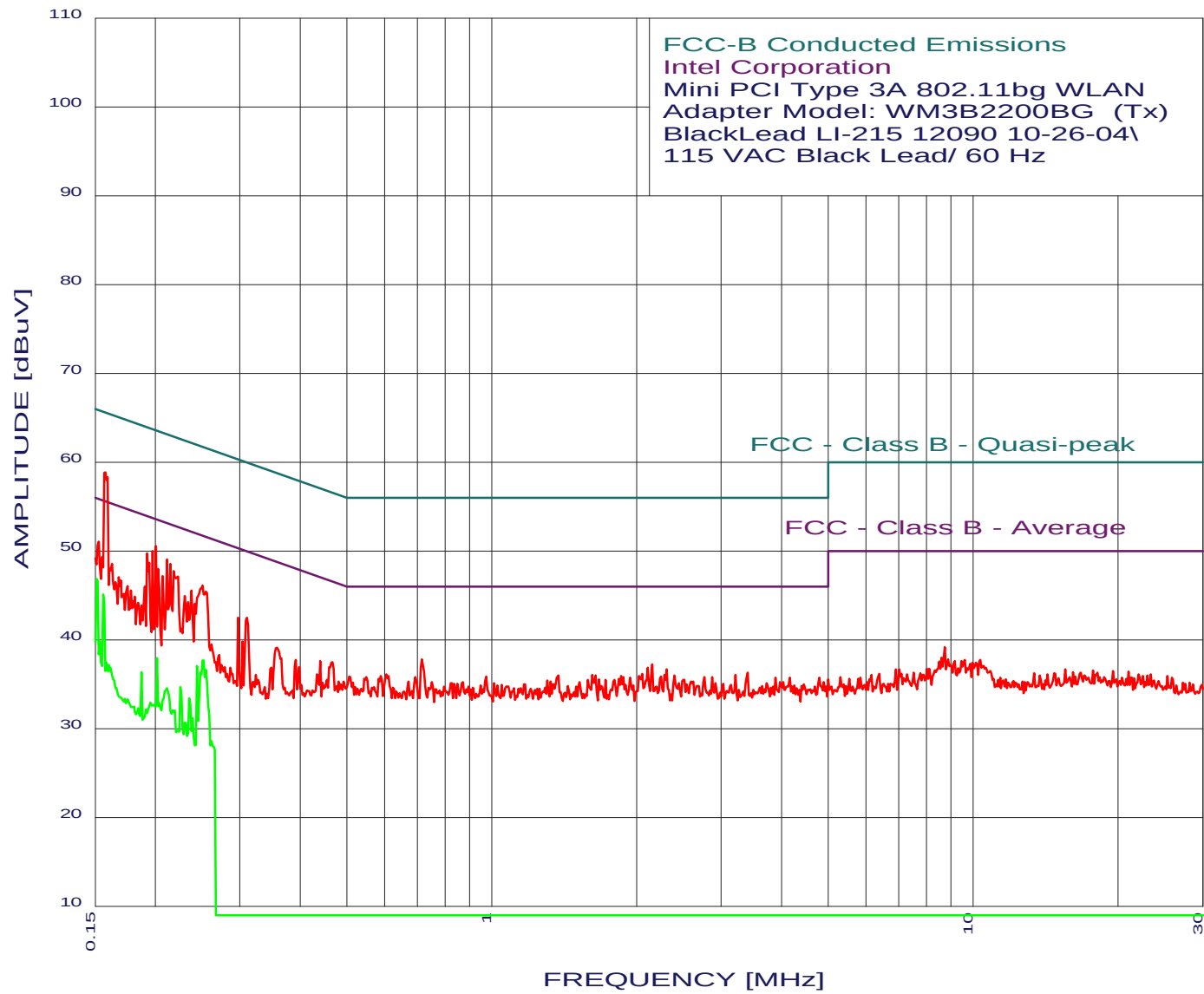
Band Edge – Channel 11 – Horizontal Polarization – 802.11 g Mode – Hitachi Antenna

CONDUCTED EMISSIONS

DATA SHEETS

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

3/17/2005 22:03:19





3/17/2005 22:03:19

Intel Corporation
 Mini PCI Type 3A 802.11bg WLAN Adapter
 Model: WM3B2200BG (Transmit Mode)
 With Hitachi Antenna
 TEST ENGINEER : Benigno Chavez

 40 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.157	58.86	55.60	3.26*
2	0.201	50.54	53.58	-3.04*
3	0.198	49.94	53.71	-3.77*
4	0.212	49.03	53.14	-4.11*
5	0.193	49.74	53.93	-4.18*
6	0.215	48.53	53.00	-4.48*
7	0.152	51.06	55.86	-4.80*
8	0.219	47.73	52.87	-5.14*
9	0.203	47.94	53.49	-5.55*
10	0.251	46.10	51.73	-5.63*
11	0.207	47.13	53.31	-6.18*
12	0.155	49.26	55.73	-6.47*
13	0.238	45.51	52.17	-6.66*
14	0.162	48.56	55.34	-6.78*
15	0.150	49.16	56.00	-6.84*
16	0.310	42.46	49.97	-7.51
17	0.230	44.92	52.43	-7.52*
18	0.297	42.47	50.32	-7.86
19	0.168	47.05	55.07	-8.02*
20	0.242	44.01	52.04	-8.03*
21	0.190	45.94	54.01	-8.07*
22	0.234	44.21	52.30	-8.08*
23	0.716	37.79	46.00	-8.21
24	0.175	46.05	54.72	-8.67*
25	2.156	37.24	46.00	-8.76
26	0.178	45.55	54.59	-9.04*
27	0.466	37.48	46.58	-9.10
28	2.111	36.83	46.00	-9.17
29	2.310	36.65	46.00	-9.35
30	0.440	37.59	47.06	-9.48
31	0.182	44.85	54.41	-9.56*
32	0.358	39.12	48.78	-9.66
33	3.401	36.26	46.00	-9.74
34	2.055	36.13	46.00	-9.87
35	0.605	36.08	46.00	-9.92
36	1.620	36.04	46.00	-9.96
37	3.209	36.04	46.00	-9.96
38	1.374	36.00	46.00	-10.00
39	2.397	35.96	46.00	-10.04
40	1.859	35.89	46.00	-10.11

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



Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

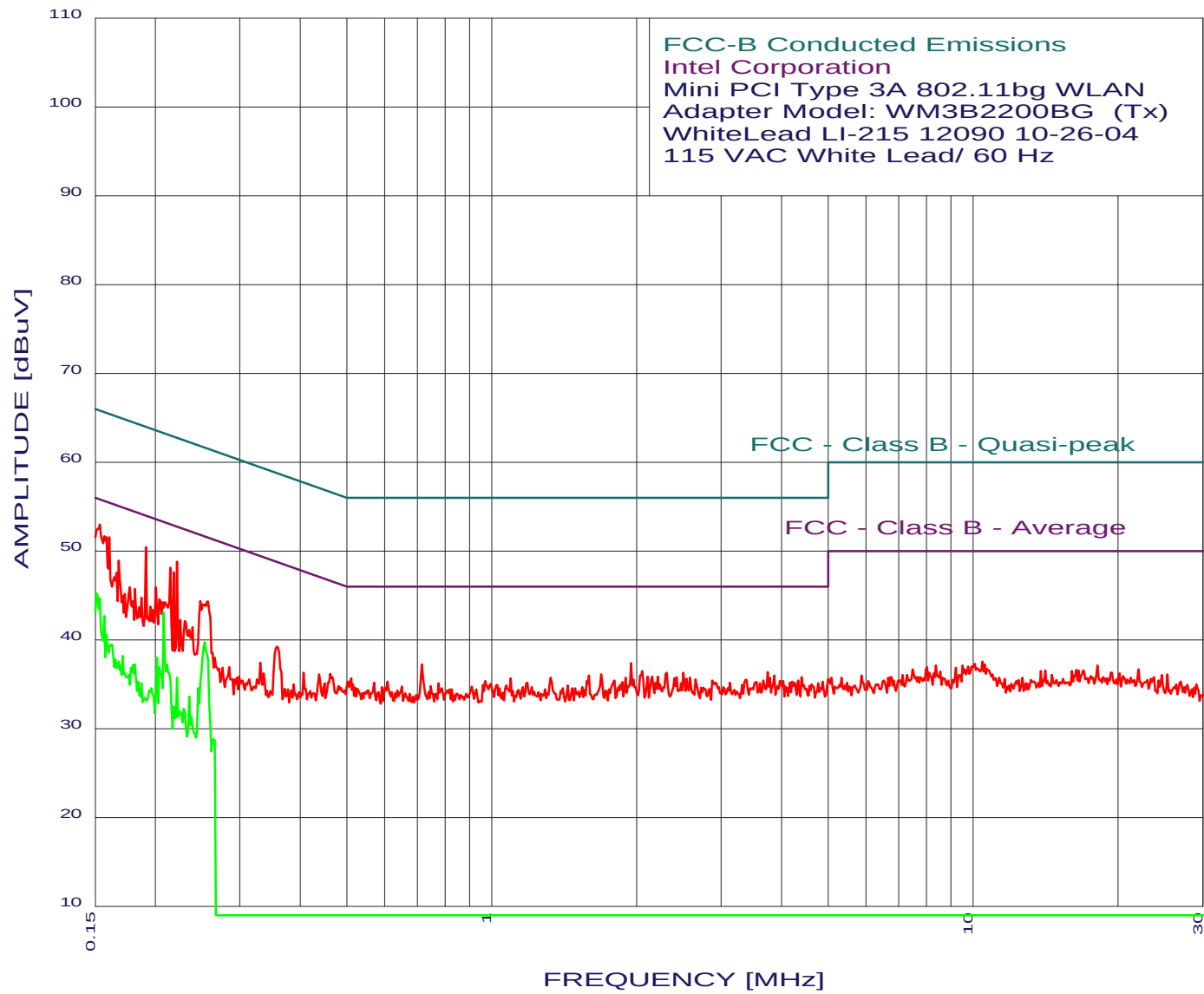
28 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.151	46.86	55.95	-9.09
2	0.156	45.07	55.69	-10.62
3	0.251	37.65	51.73	-14.08
4	0.244	37.04	51.95	-14.91
5	0.255	36.61	51.60	-14.99
6	0.248	36.25	51.82	-15.56
7	0.202	37.90	53.53	-15.63
8	0.153	39.80	55.82	-16.02
9	0.150	39.74	56.00	-16.26
10	0.187	36.37	54.15	-17.78
11	0.226	34.64	52.61	-17.97
12	0.158	37.42	55.56	-18.14
13	0.160	37.15	55.47	-18.32
14	0.162	36.84	55.38	-18.55
15	0.212	34.53	53.14	-18.61
16	0.235	33.39	52.25	-18.86
17	0.204	32.84	53.44	-20.61
18	0.220	32.04	52.83	-20.78
19	0.217	32.05	52.91	-20.87
20	0.196	32.89	53.80	-20.91
21	0.239	31.15	52.12	-20.97
22	0.173	33.35	54.81	-21.46
23	0.175	33.25	54.72	-21.47
24	0.230	30.65	52.43	-21.79
25	0.192	32.15	53.97	-21.82
26	0.181	32.49	54.46	-21.97
27	0.184	32.27	54.28	-22.02
28	0.262	28.61	51.38	-22.76

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

3/17/2005 22:17:37





3/17/2005 22:17:37

Intel Corporation
 Mini PCI Type 3A 802.11bg WLAN Adapter
 Model: WM3B2200BG (Transmit Mode)
 With Hitachi Antenna
 TEST ENGINEER : Benigno Chavez

 40 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.153	52.95	55.82	-2.87*
2	0.192	50.42	53.97	-3.55*
3	0.161	51.54	55.43	-3.89*
4	0.222	48.80	52.74	-3.94*
5	0.150	51.55	56.00	-4.45*
6	0.215	48.10	53.00	-4.90*
7	0.219	47.60	52.87	-5.27*
8	0.168	48.94	55.07	-6.13*
9	0.248	44.37	51.82	-7.44*
10	0.166	47.54	55.16	-7.62*
11	0.201	45.92	53.58	-7.66*
12	1.950	37.33	46.00	-8.67
13	0.182	45.73	54.41	-8.68*
14	0.177	45.93	54.63	-8.70*
15	0.716	37.20	46.00	-8.80
16	0.204	44.51	53.44	-8.93*
17	0.187	44.73	54.15	-9.42*
18	2.055	36.45	46.00	-9.55
19	0.358	39.20	48.78	-9.58
20	3.741	36.33	46.00	-9.67
21	0.173	45.13	54.81	-9.68
22	2.501	36.30	46.00	-9.70
23	2.310	36.27	46.00	-9.73
24	1.690	36.07	46.00	-9.93
25	1.594	35.95	46.00	-10.05
26	3.862	35.95	46.00	-10.05
27	0.196	43.72	53.80	-10.08*
28	2.214	35.86	46.00	-10.14
29	2.156	35.86	46.00	-10.14
30	2.111	35.85	46.00	-10.15
31	4.408	35.79	46.00	-10.21
32	2.423	35.79	46.00	-10.21
33	3.781	35.74	46.00	-10.26
34	1.899	35.72	46.00	-10.28
35	2.582	35.70	46.00	-10.30
36	1.325	35.70	46.00	-10.30
37	0.510	35.67	46.00	-10.33
38	0.230	42.09	52.43	-10.34*
39	1.094	35.65	46.00	-10.35
40	0.198	43.32	53.71	-10.39

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



Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

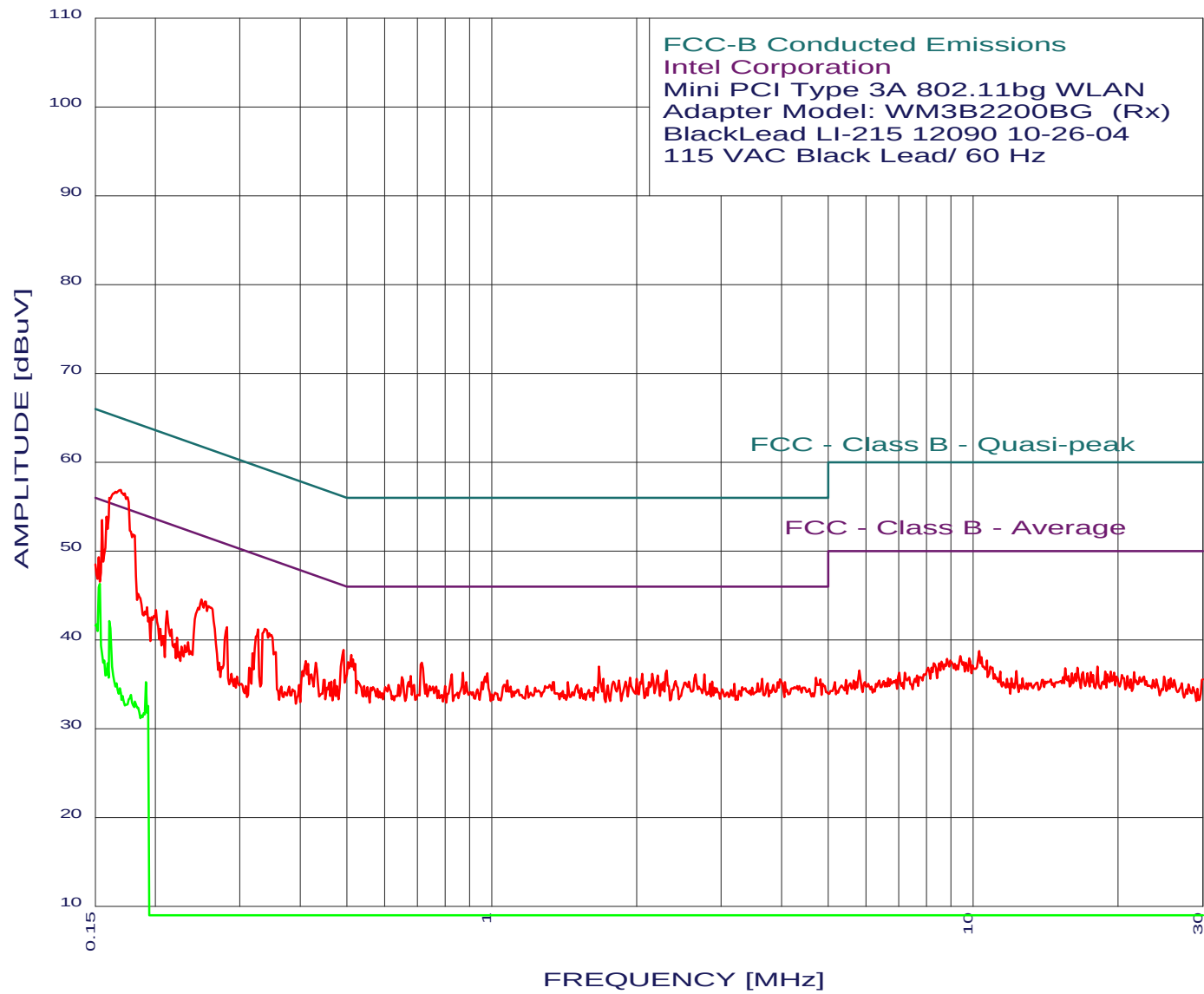
32 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.208	43.01	53.27	-10.26
2	0.151	45.25	55.95	-10.71
3	0.153	44.67	55.82	-11.15
4	0.254	39.72	51.64	-11.92
5	0.150	43.10	56.00	-12.90
6	0.157	42.64	55.64	-13.00
7	0.158	40.60	55.56	-14.95
8	0.202	37.99	53.53	-15.55
9	0.162	39.44	55.34	-15.90
10	0.212	37.13	53.14	-16.01
11	0.204	36.92	53.44	-16.52
12	0.171	38.17	54.90	-16.73
13	0.222	35.73	52.74	-17.01
14	0.182	37.23	54.41	-17.18
15	0.180	37.17	54.50	-17.33
16	0.246	34.52	51.90	-17.38
17	0.165	37.77	55.20	-17.43
18	0.168	37.51	55.07	-17.56
19	0.178	36.82	54.59	-17.77
20	0.170	37.00	54.98	-17.99
21	0.176	36.06	54.68	-18.61
22	0.235	33.59	52.25	-18.66
23	0.184	35.27	54.28	-19.02
24	0.187	35.08	54.15	-19.07
25	0.197	34.54	53.75	-19.21
26	0.195	34.30	53.84	-19.54
27	0.229	32.20	52.48	-20.28
28	0.219	32.44	52.87	-20.43
29	0.190	33.49	54.01	-20.52
30	0.226	31.90	52.61	-20.71
31	0.238	31.31	52.17	-20.86
32	0.265	28.77	51.29	-22.52

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

3/17/2005 22:08:28





3/17/2005 22:08:28

Intel Corporation
 Mini PCI Type 3A 802.11bg WLAN Adapter
 Model: WM3B2200BG (Receive Mode)
 With Hitachi Antenna
 TEST ENGINEER : Benigno Chavez

 40 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.169	56.85	55.03	1.83*
2	0.158	53.86	55.56	-1.70*
3	0.155	53.46	55.73	-2.27*
4	0.152	49.26	55.86	-6.60*
5	0.492	38.87	46.14	-7.27
6	0.250	44.50	51.77	-7.27
7	0.150	48.46	56.00	-7.54*
8	0.510	38.27	46.00	-7.73
9	0.338	41.23	49.26	-8.03
10	0.327	41.14	49.53	-8.38
11	0.716	37.39	46.00	-8.61
12	1.671	36.96	46.00	-9.04
13	0.282	41.38	50.76	-9.38
14	2.310	36.55	46.00	-9.45
15	0.872	36.31	46.00	-9.69
16	0.979	36.22	46.00	-9.78
17	0.431	37.39	47.24	-9.85
18	2.156	36.14	46.00	-9.86
19	2.055	36.13	46.00	-9.87
20	0.826	36.10	46.00	-9.90
21	2.766	36.10	46.00	-9.90
22	0.212	43.23	53.14	-9.91
23	2.651	36.09	46.00	-9.91
24	0.411	37.59	47.63	-10.04
25	2.214	35.94	46.00	-10.06
26	0.679	35.89	46.00	-10.11
27	0.651	35.79	46.00	-10.21
28	0.201	43.34	53.58	-10.24
29	0.415	37.29	47.55	-10.26
30	1.939	35.71	46.00	-10.29
31	4.722	35.69	46.00	-10.31
32	2.002	35.62	46.00	-10.38
33	3.644	35.58	46.00	-10.42
34	1.708	35.56	46.00	-10.44
35	3.966	35.52	46.00	-10.48
36	1.077	35.44	46.00	-10.56
37	1.840	35.39	46.00	-10.61
38	0.527	35.37	46.00	-10.63
39	2.410	35.36	46.00	-10.64
40	2.870	35.31	46.00	-10.69

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



Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

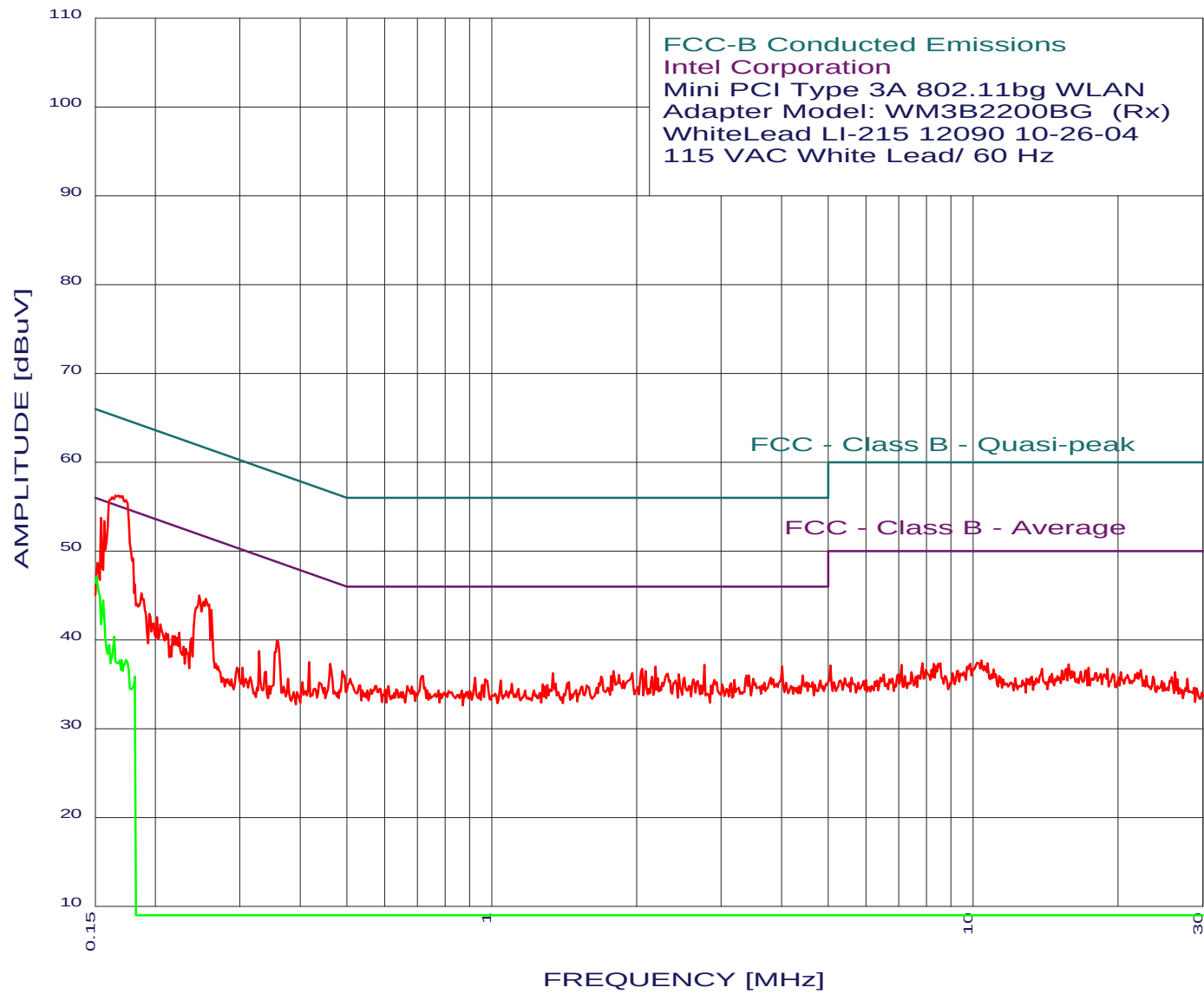
15 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.153	46.25	55.82	-9.57
2	0.161	42.10	55.43	-13.33
3	0.151	41.71	55.95	-14.24
4	0.150	41.59	56.00	-14.41
5	0.157	37.67	55.64	-17.97
6	0.159	37.34	55.51	-18.18
7	0.192	35.23	53.97	-18.74
8	0.166	35.06	55.16	-20.09
9	0.169	34.53	55.03	-20.49
10	0.178	33.80	54.59	-20.79
11	0.171	33.64	54.90	-21.26
12	0.194	32.53	53.88	-21.35
13	0.182	33.01	54.41	-21.40
14	0.189	31.69	54.06	-22.36
15	0.187	31.50	54.15	-22.65

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

3/17/2005 22:20:49





3/17/2005 22:20:49

Intel Corporation
 Mini PCI Type 3A 802.11bg WLAN Adapter
 Model: WM3B2200BG (Receive Mode)
 With Hitachi Antenna
 TEST ENGINEER : Benigno Chavez

 40 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.165	56.24	55.20	1.04*
2	0.154	53.75	55.78	-2.03*
3	0.157	53.34	55.64	-2.30*
4	0.247	44.97	51.86	-6.89
5	0.255	44.57	51.60	-7.03
6	0.152	48.65	55.91	-7.26*
7	0.262	43.36	51.38	-8.02
8	2.766	37.13	46.00	-8.87
9	0.358	39.90	48.78	-8.88
10	0.187	45.23	54.15	-8.92*
11	4.008	36.96	46.00	-9.04
12	2.190	36.96	46.00	-9.04
13	2.055	36.75	46.00	-9.25
14	0.461	37.28	46.67	-9.39
15	1.790	36.49	46.00	-9.51
16	2.089	36.45	46.00	-9.55
17	0.489	36.47	46.18	-9.71
18	1.960	36.23	46.00	-9.77
19	1.338	36.20	46.00	-9.80
20	2.322	36.18	46.00	-9.82
21	2.449	36.09	46.00	-9.91
22	1.840	36.01	46.00	-9.99
23	3.419	36.00	46.00	-10.00
24	3.383	35.99	46.00	-10.01
25	4.432	35.99	46.00	-10.01
26	0.417	37.49	47.50	-10.01
27	0.720	35.90	46.00	-10.10
28	1.772	35.89	46.00	-10.11
29	1.690	35.87	46.00	-10.13
30	2.156	35.86	46.00	-10.14
31	3.800	35.74	46.00	-10.26
32	0.924	35.72	46.00	-10.28
33	2.514	35.70	46.00	-10.30
34	2.214	35.66	46.00	-10.34
35	3.492	35.61	46.00	-10.39
36	0.508	35.57	46.00	-10.43
37	0.969	35.52	46.00	-10.48
38	2.624	35.51	46.00	-10.49
39	3.192	35.47	46.00	-10.53
40	2.900	35.44	46.00	-10.56

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

**COMPATIBLE
ELECTRONICS**

3/17/2005 22:20:49

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
WM3B2200BG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

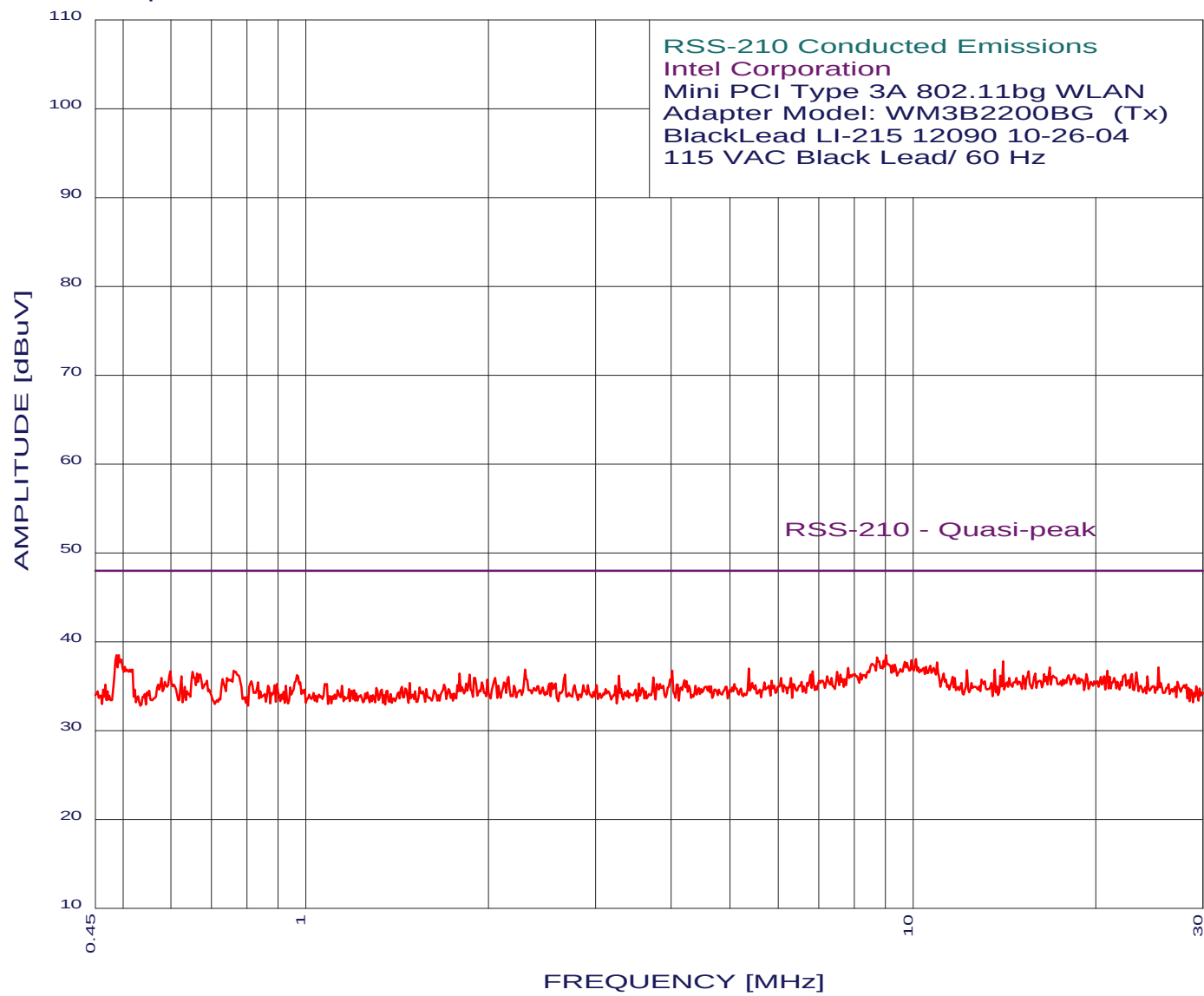
9 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.151	47.08	55.95	-8.88
2	0.150	46.38	56.00	-9.62
3	0.156	44.42	55.69	-11.26
4	0.164	40.36	55.25	-14.89
5	0.161	39.42	55.43	-16.01
6	0.174	37.71	54.77	-17.05
7	0.170	37.72	54.94	-17.23
8	0.169	37.64	55.03	-17.39
9	0.182	35.86	54.41	-18.55

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

3/17/2005 22:12:59





3/17/2005 22:12:59

Intel Corporation
 Mini PCI Type 3A 802.11bg WLAN Adapter
 Model: WM3B2200BG (Transmit Mode)
 With Hitachi Antenna
 TEST ENGINEER : Benigno Chavez

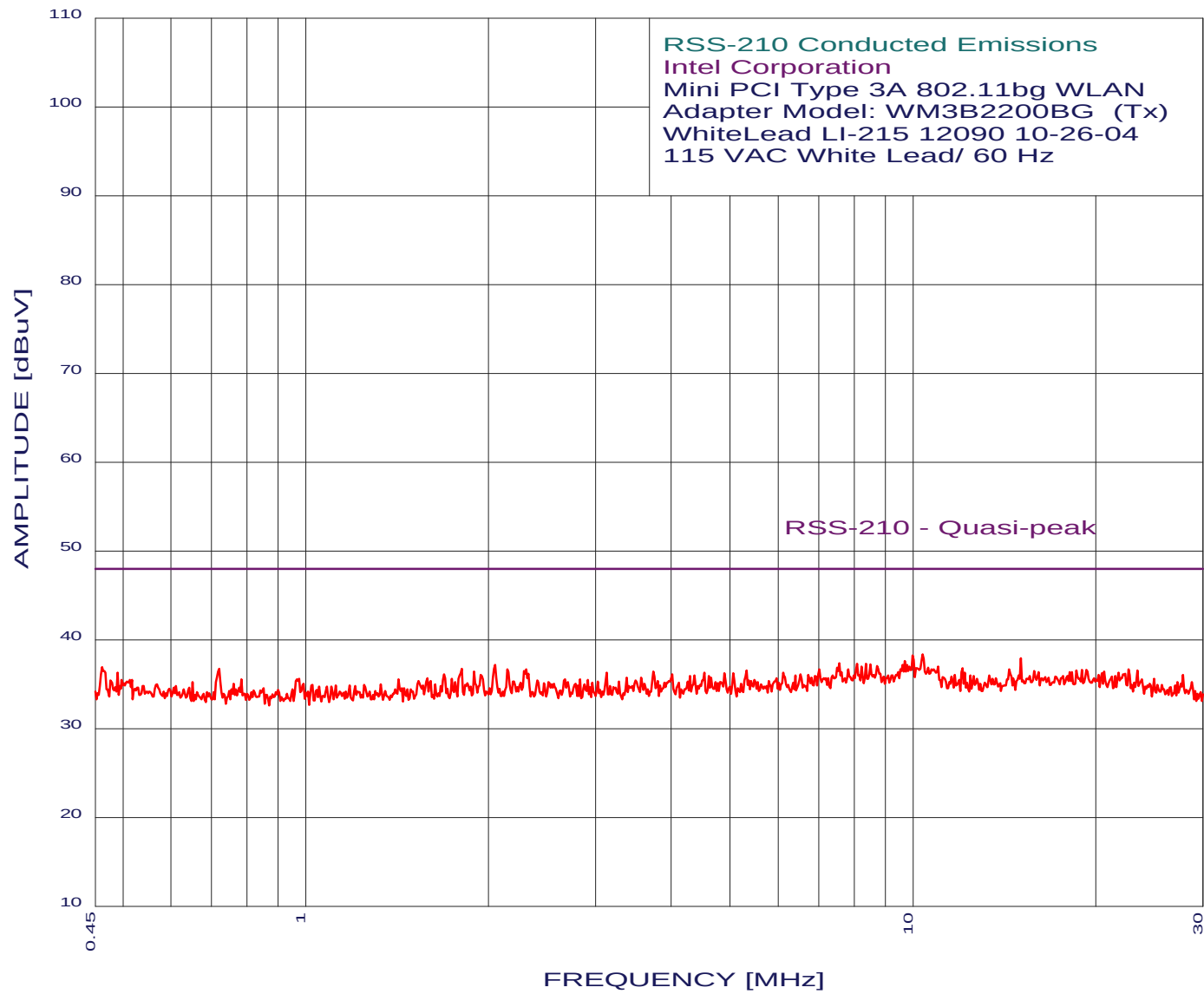
 41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.488	38.47	48.00	-9.53
2	0.492	38.47	48.00	-9.53
3	9.027	38.46	48.00	-9.54
4	8.730	38.25	48.00	-9.75
5	10.109	38.01	48.00	-9.99
6	9.944	37.90	48.00	-10.10
7	14.088	37.78	48.00	-10.22
8	10.953	37.67	48.00	-10.33
9	25.366	37.09	48.00	-10.91
10	16.810	37.06	48.00	-10.94
11	7.827	37.00	48.00	-11.00
12	5.364	36.96	48.00	-11.04
13	13.627	36.85	48.00	-11.15
14	2.296	36.85	48.00	-11.15
15	12.268	36.76	48.00	-11.24
16	4.013	36.72	48.00	-11.28
17	20.912	36.72	48.00	-11.28
18	0.761	36.70	48.00	-11.30
19	0.599	36.68	48.00	-11.32
20	15.519	36.68	48.00	-11.32
21	6.842	36.66	48.00	-11.34
22	7.506	36.59	48.00	-11.41
23	0.651	36.59	48.00	-11.41
24	23.325	36.53	48.00	-11.47
25	15.917	36.40	48.00	-11.60
26	11.230	36.39	48.00	-11.61
27	0.662	36.39	48.00	-11.61
28	1.792	36.38	48.00	-11.62
29	16.457	36.34	48.00	-11.66
30	19.306	36.33	48.00	-11.67
31	22.929	36.32	48.00	-11.68
32	7.600	36.29	48.00	-11.71
33	1.861	36.29	48.00	-11.71
34	2.671	36.29	48.00	-11.71
35	22.367	36.28	48.00	-11.72
36	18.431	36.27	48.00	-11.73
37	6.786	36.26	48.00	-11.74
38	18.054	36.25	48.00	-11.75
39	0.966	36.22	48.00	-11.78
40	17.024	36.18	48.00	-11.82
41	0.450	33.98	48.00	-14.02

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

3/17/2005 22:24:54





Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

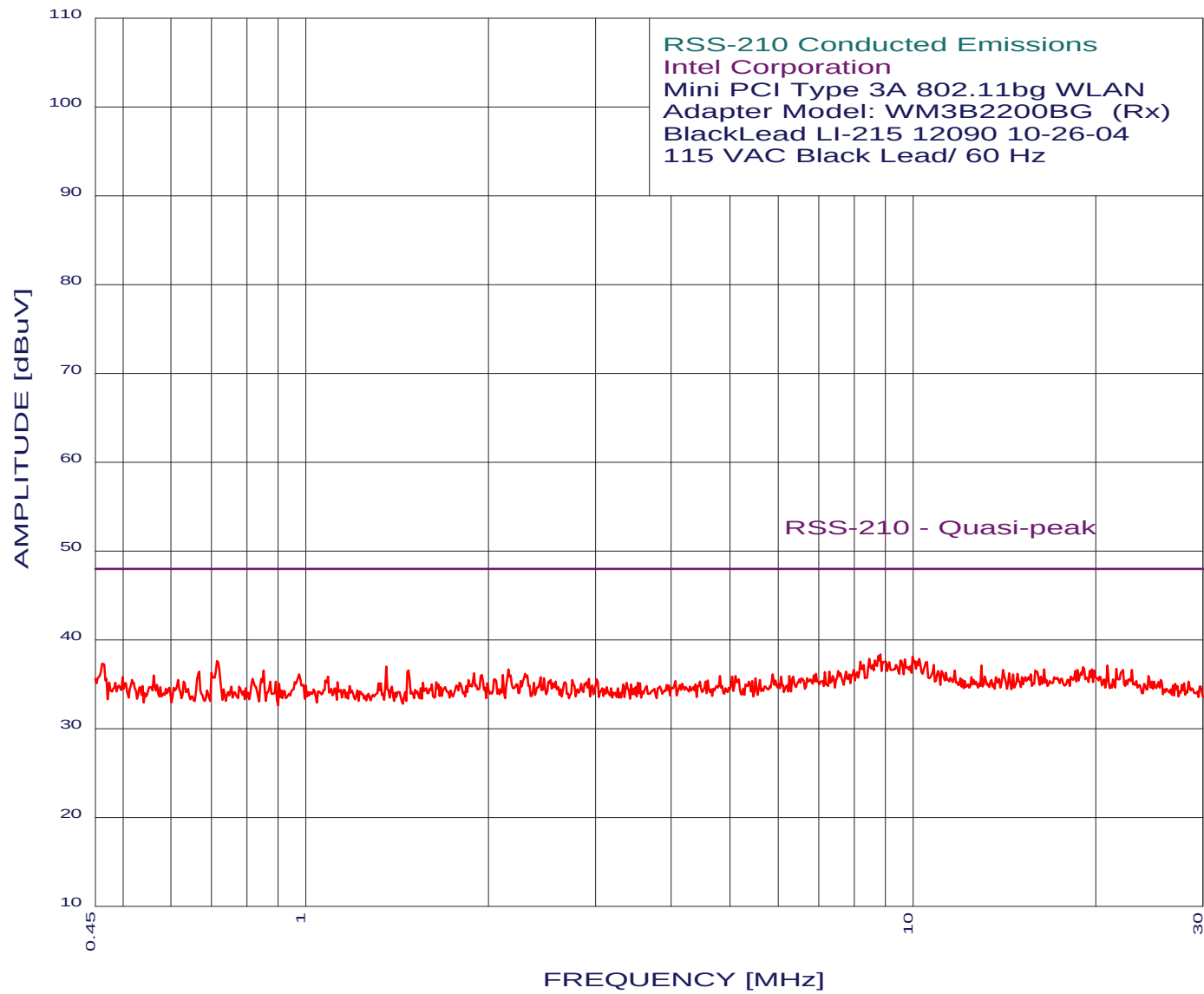
41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	10.371	38.32	48.00	-9.68
2	9.986	38.19	48.00	-9.81
3	15.071	37.89	48.00	-10.11
4	9.696	37.58	48.00	-10.42
5	7.569	37.36	48.00	-10.64
6	8.372	37.30	48.00	-10.70
7	8.093	37.29	48.00	-10.71
8	8.512	37.21	48.00	-10.79
9	2.050	37.14	48.00	-10.86
10	8.730	37.02	48.00	-10.98
11	8.231	36.99	48.00	-11.01
12	0.462	36.88	48.00	-11.12
13	12.063	36.75	48.00	-11.25
14	1.808	36.70	48.00	-11.30
15	0.721	36.70	48.00	-11.30
16	22.648	36.69	48.00	-11.31
17	2.305	36.67	48.00	-11.33
18	7.827	36.67	48.00	-11.33
19	2.147	36.66	48.00	-11.34
20	14.391	36.63	48.00	-11.37
21	7.018	36.63	48.00	-11.37
22	19.306	36.59	48.00	-11.41
23	18.988	36.59	48.00	-11.41
24	18.590	36.56	48.00	-11.44
25	5.318	36.53	48.00	-11.47
26	23.424	36.51	48.00	-11.49
27	15.849	36.45	48.00	-11.55
28	3.737	36.43	48.00	-11.57
29	20.646	36.43	48.00	-11.57
30	1.893	36.42	48.00	-11.58
31	18.280	36.33	48.00	-11.67
32	4.534	36.29	48.00	-11.71
33	21.805	36.29	48.00	-11.71
34	0.490	36.27	48.00	-11.73
35	6.109	36.27	48.00	-11.73
36	3.133	36.27	48.00	-11.73
37	12.166	36.26	48.00	-11.74
38	20.473	36.24	48.00	-11.76
39	5.057	36.21	48.00	-11.79
40	4.890	36.21	48.00	-11.79
41	0.450	34.18	48.00	-13.82

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

3/17/2005 22:09:43





Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

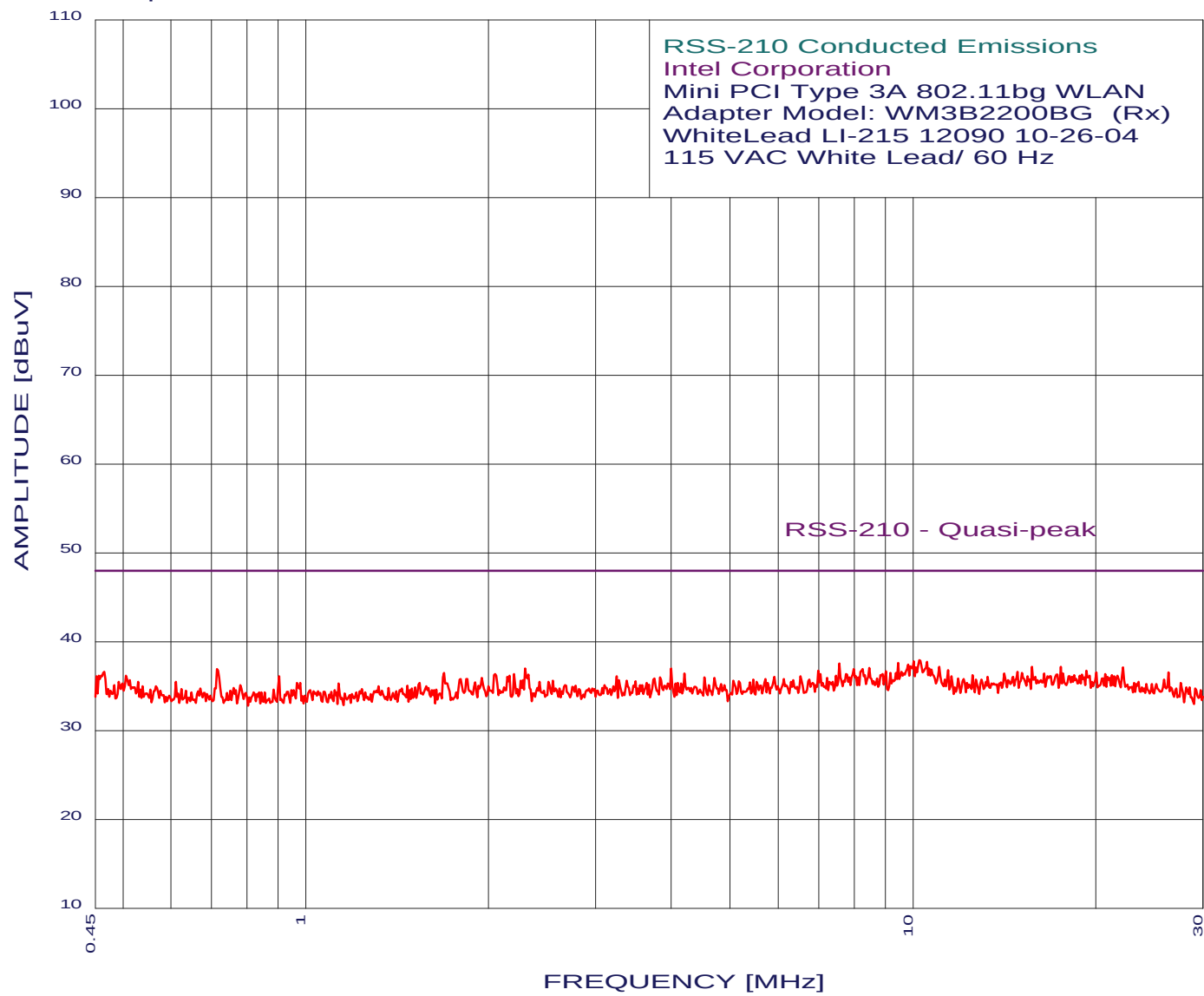
41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	8.841	38.35	48.00	-9.65
2	9.986	38.11	48.00	-9.89
3	8.477	37.83	48.00	-10.17
4	10.240	37.82	48.00	-10.18
5	9.696	37.79	48.00	-10.21
6	9.533	37.68	48.00	-10.32
7	0.715	37.59	48.00	-10.41
8	9.027	37.56	48.00	-10.44
9	8.196	37.52	48.00	-10.48
10	9.142	37.47	48.00	-10.53
11	10.546	37.44	48.00	-10.56
12	0.462	37.28	48.00	-10.72
13	10.815	37.16	48.00	-10.84
14	20.912	37.12	48.00	-10.88
15	12.957	37.11	48.00	-10.89
16	1.358	36.99	48.00	-11.01
17	19.067	36.92	48.00	-11.08
18	21.622	36.74	48.00	-11.26
19	19.717	36.65	48.00	-11.35
20	16.457	36.64	48.00	-11.36
21	2.156	36.64	48.00	-11.36
22	22.929	36.62	48.00	-11.38
23	7.993	36.61	48.00	-11.39
24	18.670	36.59	48.00	-11.41
25	22.180	36.58	48.00	-11.42
26	14.088	36.58	48.00	-11.42
27	19.885	36.54	48.00	-11.46
28	11.714	36.52	48.00	-11.48
29	1.477	36.52	48.00	-11.48
30	0.852	36.51	48.00	-11.49
31	15.917	36.50	48.00	-11.50
32	7.537	36.49	48.00	-11.51
33	11.138	36.48	48.00	-11.52
34	18.511	36.48	48.00	-11.52
35	10.999	36.47	48.00	-11.53
36	7.761	36.40	48.00	-11.60
37	0.668	36.39	48.00	-11.61
38	7.286	36.38	48.00	-11.62
39	7.166	36.37	48.00	-11.63
40	14.391	36.20	48.00	-11.80
41	0.450	35.58	48.00	-12.42

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

3/17/2005 22:22:03





Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	10.240	37.91	48.00	-10.09
2	10.027	37.80	48.00	-10.20
3	10.546	37.74	48.00	-10.26
4	9.455	37.56	48.00	-10.44
5	7.569	37.56	48.00	-10.44
6	9.820	37.39	48.00	-10.61
7	11.045	37.18	48.00	-10.82
8	17.527	37.17	48.00	-10.83
9	15.714	37.14	48.00	-10.86
10	22.180	37.11	48.00	-10.89
11	8.477	37.01	48.00	-10.99
12	2.296	36.97	48.00	-11.03
13	3.996	36.96	48.00	-11.04
14	8.266	36.90	48.00	-11.10
15	0.715	36.90	48.00	-11.10
16	7.993	36.88	48.00	-11.12
17	11.422	36.80	48.00	-11.20
18	6.988	36.72	48.00	-11.28
19	19.306	36.69	48.00	-11.31
20	9.027	36.64	48.00	-11.36
21	0.466	36.58	48.00	-11.42
22	14.879	36.57	48.00	-11.43
23	20.053	36.55	48.00	-11.45
24	26.348	36.50	48.00	-11.50
25	15.135	36.49	48.00	-11.51
26	1.690	36.47	48.00	-11.53
27	9.181	36.45	48.00	-11.55
28	14.149	36.41	48.00	-11.59
29	16.457	36.39	48.00	-11.61
30	17.678	36.39	48.00	-11.61
31	4.203	36.38	48.00	-11.62
32	7.761	36.37	48.00	-11.63
33	2.201	36.36	48.00	-11.64
34	2.050	36.34	48.00	-11.66
35	8.916	36.33	48.00	-11.67
36	20.735	36.33	48.00	-11.67
37	18.988	36.29	48.00	-11.71
38	17.309	36.26	48.00	-11.74
39	21.267	36.22	48.00	-11.78
40	12.525	36.19	48.00	-11.81
41	0.450	33.78	48.00	-14.22
