APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.247

Intel Corporation — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Phycomp Antenna

Channel 1 - 802.11 b Mode Gain : 14.5 Peak Power: 17.38 dBm Avg. Power: 15.45 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	44.71	V	74	-29.29	Peak	1.9	270	
4824	39.7	V	54	-14.3	Avg	1.9	270	
7236	39.62	V	74	-34.38	Peak	1.9	315	
7236	27.58	V	54	-26.42	Avg	1.9	315	
9648	47.98	V	--	--	Peak	2.41	45	Not in Restricted Band
9648	37.37	V	--	--	Avg	2.41	45	Not in Restricted Band
12060	44.39	V	74	-29.61	Peak	1.61	45	
12060	32.3	V	54	-21.7	Avg	1.61	45	
14472	52.08	V	74	-21.92	Peak	1.61	90	
14472	36.17	V	54	-17.83	Avg	1.61	90	
16884	46.96	V	--	--	Peak	1.61	225	Not in Restricted Band
16884	33.9	V	--	--	Avg	1.61	225	Not in Restricted Band
19296		V	74	-74	Peak			No Emission
19296		V	54	-54	Avg			Detected
21708		V	--	--	Peak			No Emission
21708		V	--	--	Avg			Detected
24120		V	--	--	Peak			No Emission
24120		V	--	--	Avg			Detected

FCC 15.247
Intel Corporation Date: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Phycomp Antenna
Channel 1 - 802.11 b Mode Gain : 14.5 Peak Power: 17.38 dBm Avg. Power: 15.45 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	48.68	H	74	-25.32	Peak	1.83	225	
4824	44.62	H	54	-9.38	Avg	1.83	225	
7236	40.53	H	74	-33.47	Peak	1.84	135	
7236	26.99	H	54	-27.01	Avg	1.84	135	
9648	48.04	H	--	--	Peak	1.35	315	Not in Restricted Band
9648	32.58	H	--	--	Avg	1.35	315	Not in Restricted Band
12060	46.87	H	74	-27.13	Peak	2.1	45	
12060	32.29	H	54	-21.71	Avg	2.1	45	
14472	48.31	H	74	-25.69	Peak	2.46	270	
14472	35.31	H	54	-18.69	Avg	2.46	270	
16884	47.55	H	--	--	Peak	2.46	270	Not in Restricted Band
16884	34.89	H	--	--	Avg	2.46	270	Not in Restricted Band
19296		H	74	-74	Peak			No Emission
19296		H	54	-54	Avg			Detected
21708		H	--	--	Peak			No Emission
21708		H	--	--	Avg			Detected
24120		H	--	--	Peak			No Emission
24120		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Phycomp Antenna

Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 19.19 dBm Avg. Power: 17.20 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	39.6	V	74	-34.4	Peak	1.96	270	
4874	29.5	V	54	-24.5	Avg	1.96	270	
7311	44.06	V	74	-29.94	Peak	2.21	180	
7311	35.17	V	54	-18.83	Avg	2.21	180	
9748	44.68	V	--	--	Peak	2.21	270	Not in Restricted Band
9748	31.11	V	--	--	Avg	2.21	270	Not in Restricted Band
12185	44.89	V	74	-29.11	Peak	2.21	225	
12185	32.19	V	54	-21.81	Avg	2.21	225	
14622	49.38	V	--	--	Peak	2.22	45	Not in Restricted Band
14622	34.66	V	--	--	Avg	2.22	45	Not in Restricted Band
17059	48.7	V	--	--	Peak	2.22	45	Not in Restricted Band
17059	34.77	V	--	--	Avg	2.22	45	Not in Restricted Band
19496		V	74	-74	Peak			No Emission
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emission
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emission
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emission
24370		V	--	--	Avg			Detected

FCC 15.247
Intel Corporation Date: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Phycomp Antenna
Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 19.19 dBm Avg. Power: 17.20 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	40.54	H	74	-33.46	Peak	2.44	0	
4874	34.53	H	54	-19.47	Avg	2.44	0	
7311	43.11	H	74	-30.89	Peak	1.97	225	
7311	32.12	H	54	-21.88	Avg	1.97	225	
9748	43.55	H	--	--	Peak	2.42	225	Not in Restricted Band
9748	31.15	H	--	--	Avg	2.42	225	Not in Restricted Band
12185	45.27	H	74	-28.73	Peak	2.42	135	
12185	32.21	H	54	-21.79	Avg	2.42	135	
14622	49.66	H	--	--	Peak	2.42	225	Not in Restricted Band
14622	34.66	H	--	--	Avg	2.42	225	Not in Restricted Band
17059	48.03	H	--	--	Peak	2.7	135	Not in Restricted Band
17059	35.65	H	--	--	Avg	2.7	135	Not in Restricted Band
19496		H	74	-74	Peak			No Emission
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emission
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emission
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emission
24370		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Phycomp Antenna

Channel 11 - 802.11 b Mode Gain : 16.0 Peak Power: 19.04 dBm Avg. Power: 17.10 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	40.56	V	74	-33.44	Peak	2.39	270	
4924	29.02	V	54	-24.98	Avg	2.39	270	
7386	41.49	V	74	-32.51	Peak	1.68	180	
7386	27.43	V	54	-26.57	Avg	1.68	180	
9848	41.51	V	--	--	Peak	1.68	225	Not in Restricted Band
9848	30.44	V	--	--	Avg	1.68	225	Not in Restricted Band
12310	44.18	V	74	-29.82	Peak	1.68	135	
12310	31.51	V	54	-22.49	Avg	1.68	135	
14772	48.7	V	--	--	Peak	1.68	225	Not in Restricted Band
14772	35.45	V	--	--	Avg	1.68	225	Not in Restricted Band
17234	49.58	V	--	--	Peak	2.15	135	Not in Restricted Band
17234	35.71	V	--	--	Avg	2.15	135	Not in Restricted Band
19696		V	74	-74	Peak			No Emission
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emission
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emission
24620		V	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Phycomp Antenna

Channel 11 - 802.11 b Mode Gain : 16.0 Peak Power: 19.04 dBm Avg. Power: 17.10 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	40.58	H	74	-33.42	Peak	2.04	0	
4924	33.86	H	54	-20.14	Avg	2.04	0	
7386	41.93	H	74	-32.07	Peak	2.57	45	
7386	26.19	H	54	-27.81	Avg	2.57	45	
9848	44.32	H	--	--	Peak	2.02	315	Not in Restricted Band
9848	30.39	H	--	--	Avg	2.02	315	Not in Restricted Band
12310	43.52	H	74	-30.48	Peak	2.02	45	
12310	31.11	H	54	-22.89	Avg	2.02	45	
14772	48.11	H	--	--	Peak	2.02	225	Not in Restricted Band
14772	35.42	H	--	--	Avg	2.02	225	Not in Restricted Band
17234	50.29	H	--	--	Peak	1.79	270	Not in Restricted Band
17234	35.83	H	--	--	Avg	1.79	270	Not in Restricted Band
19696		H	74	-74	Peak			No Emission
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emission
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emission
24620		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

with Phycomp Antenna

Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.55 dBm Avg. Power: 16.05 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	46.98	V	74	-27.02	Peak	1.73	180	
4824	32.45	V	54	-21.55	Avg	1.73	180	
7236	42.27	V	74	-31.73	Peak	1.73	270	
7236	28.47	V	54	-25.53	Avg	1.73	270	
9648	44.79	V	--	--	Peak	2.01	225	Not in Restricted Band
9648	32.19	V	--	--	Avg	2.01	225	Not in Restricted Band
12060	45.43	V	74	-28.57	Peak	1.75	270	
12060	32.72	V	54	-21.28	Avg	1.75	270	
14472	50.25	V	74	-23.75	Peak	1.75	225	
14472	36.1	V	54	-17.9	Avg	1.75	225	
16884	46.19	V	--	--	Peak	1.75	315	Not in Restricted Band
16884	33.83	V	--	--	Avg	1.75	315	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: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
with Phycomp Antenna
Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.55 dBm Avg. Power: 16.05 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	48.18	H	74	-25.82	Peak	2.74	180	
4824	33.68	H	54	-20.32	Avg	2.74	180	
7236	43.32	H	74	-30.68	Peak	2.74	135	
7236	27.08	H	54	-26.92	Avg	2.74	135	
9648	46.94	H	--	--	Peak	2	180	Not in Restricted Band
9648	32.56	H	--	--	Avg	2	180	Not in Restricted Band
12060	47.11	H	74	-26.89	Peak	1.66	180	
12060	32.73	H	54	-21.27	Avg	1.66	180	
14472	48.32	H	74	-25.68	Peak	1.83	225	
14472	36.23	H	54	-17.77	Avg	1.83	225	
16884	46.22	H	--	--	Peak	1.83	135	Not in Restricted Band
16884	34.04	H	--	--	Avg	1.83	135	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: 3/14/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

with Phycomp Antenna

Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 24.06 dBm Avg. Power: 15.36 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	39.22	V	74	-34.78	Peak	2.47	270	
4874	24.24	V	54	-29.76	Avg	2.47	270	
7311	43.49	V	74	-30.51	Peak	1.91	225	
7311	27.72	V	54	-26.28	Avg	1.91	225	
9748	44.49	V	--	--	Peak	1.92	180	Not in Restricted Band
9748	31.37	V	--	--	Avg	1.92	180	Not in Restricted Band
12185	45.61	V	74	-28.39	Peak	1.91	225	
12185	32.58	V	54	-21.42	Avg	1.91	225	
14622	48.44	V	--	--	Peak	1.56	180	Not in Restricted Band
14622	35.4	V	--	--	Avg	1.56	180	Not in Restricted Band
17059	47.53	V	--	--	Peak	2.37	225	Not in Restricted Band
17059	34.62	V	--	--	Avg	2.37	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: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
with Phycomp Antenna
Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 24.06 dBm Avg. Power: 15.36 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	38.04	H	74	-35.96	Peak	2.34	180	
4874	22.9	H	54	-31.1	Avg	2.34	180	
7311	43.1	H	74	-30.9	Peak	2.62	225	
7311	27.77	H	54	-26.23	Avg	2.62	225	
9748	46.31	H	--	--	Peak	1.77	225	Not in Restricted Band
9748	31.43	H	--	--	Avg	1.77	225	Not in Restricted Band
12185	45.83	H	74	-28.17	Peak	1.77	270	
12185	32.74	H	54	-21.26	Avg	1.77	270	
14622	47.34	H	--	--	Peak	2.16	225	Not in Restricted Band
14622	35.37	H	--	--	Avg	2.16	225	Not in Restricted Band
17059	46.98	H	--	--	Peak	1.86	180	Not in Restricted Band
17059	35.14	H	--	--	Avg	1.86	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 — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

with Phycomp Antenna

Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 24.14 dBm Avg. Power: 15.46 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	35.81	V	74	-38.19	Peak	2.21	315	
4924	23.29	V	54	-30.71	Avg	2.21	315	
7386	37.52	V	74	-36.48	Peak	2.79	45	
7386	26.36	V	54	-27.64	Avg	2.79	45	
9848	42.92	V	--	--	Peak	2.04	90	Not in Restricted Band
9848	30.86	V	--	--	Avg	2.04	90	Not in Restricted Band
12310	43.8	V	74	-30.2	Peak	2.04	270	
12310	31.05	V	54	-22.95	Avg	2.04	270	
14772	48.44	V	--	--	Peak	2.04	180	Not in Restricted Band
14772	35.95	V	--	--	Avg	2.04	180	Not in Restricted Band
17234	47.23	V	--	--	Peak	2.04	270	Not in Restricted Band
17234	34.82	V	--	--	Avg	2.04	270	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 — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

with Phycomp Antenna

Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 24.14 dBm Avg. Power: 15.46 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	39.51	H	74	-34.49	Peak	1.79	225	
4924	23.8	H	54	-30.2	Avg	1.79	225	
7386	38.69	H	74	-35.31	Peak	1.79	180	
7386	26.59	H	54	-27.41	Avg	1.79	180	
9848	45.32	H	--	--	Peak	2.37	90	Not in Restricted Band
9848	30.83	H	--	--	Avg	2.37	90	Not in Restricted Band
12310	44.49	H	74	-29.51	Peak	2.37	135	
12310	31.67	H	54	-22.33	Avg	2.37	135	
14772	48.37	H	--	--	Peak	2.37	315	Not in Restricted Band
14772	35.81	H	--	--	Avg	2.37	315	Not in Restricted Band
17234	48.64	H	--	--	Peak	2.37	135	Not in Restricted Band
17234	35.08	H	--	--	Avg	2.37	135	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 — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Benigno Chavez

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

With Phycomp Antenna

Channel 149 - 802.11 a Mode Gain : 14.5 Peak Power: 21.11 dBm Avg. Power: 15.59 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11490	50.5	V	74	-23.5	Peak	2	315	
11490	37.74	V	54	-16.26	Avg	2	315	
17235	50.3	V	--	--	Peak	2.46	270	Not in Restricted Band
17235	36.21	V	--	--	Avg	2.46	270	Not in Restricted Band
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: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Benigno Chavez
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Phycomp Antenna
Channel 149 - 802.11 a Mode Gain : 14.5 Peak Power: 21.11 dBm Avg. Power: 15.59 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11490	49.25	H	74	-24.75	Peak	2.16	2.24	
11490	35.38	H	54	-18.62	Avg	2.16	2.24	
17235	49.83	H	--	--	Peak	1.98	225	Not in Restricted Band
17235	35.92	H	--	--	Avg	1.98	225	Not in Restricted Band
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: 3/14/05

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

Model: WM3A2915ABG — Tested By: Benigno Chavez

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

With Phycomp Antenna

Channel 157 - 802.11 a Mode Gain : 14.5 Peak Power: 21.04 dBm Avg. Power: 15.4 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11570	51.16	V	74	-22.84	Peak	1.51	225	
11570	37	V	54	-17	Avg	1.51	225	
17355	49.92	V	--	--	Peak	1.61	180	Not in Restricted Band
17355	36.23	V	--	--	Avg	1.61	180	Not in Restricted Band
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: 3/14/05

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

Model: WM3A2915ABG — Tested By: Benigno Chavez

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

With Phycomp Antenna

Channel 157 - 802.11 a Mode Gain : 14.5 Peak Power: 21.04 dBm Avg. Power: 15.4 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11570	49.34	H	74	-24.66	Peak	2.23	225	
11570	34.95	H	54	-19.05	Avg	2.23	225	
17355	50.62	H	--	--	Peak	1.86	180	Not in Restricted Band
17355	36.11	H	--	--	Avg	1.86	180	Not in Restricted Band
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: 3/14/05

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

Model: WM3A2915ABG — Tested By: Benigno Chavez

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

With Phycomp Antenna

Channel 165 - 802.11 a Mode Gain : 14.5 Peak Power: 20.90 dBm Avg. Power: 15.17 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11650	53.56	V	74	-20.44	Peak	2.23	225	
11650	39.32	V	54	-14.68	Avg	2.23	225	
17475	50.87	V	--	--	Peak	2.22	225	Not in Restricted Band
17475	36.71	V	--	--	Avg	2.22	225	Not in Restricted Band
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: 3/14/05

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

Model: WM3A2915ABG — Tested By: Benigno Chavez

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

With Phycomp Antenna

Channel 165 - 802.11 a Mode Gain : 14.5 Peak Power: 20.90 dBm Avg. Power: 15.17 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11650	49.71	H	74	-24.29	Peak	1.88	135	
11650	35.82	H	54	-18.18	Avg	1.88	135	
17475	50.36	H	--	--	Peak	1.73	180	Not in Restricted Band
17475	36.49	H	--	--	Avg	1.73	180	Not in Restricted Band
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: 3/15/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Phycomp Antenna

Channel 1 - 802.11 b Mode Gain : 14.5 Peak Power: 17.38 dBm Avg. Power: 15.45 dBm

Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 19.19 dBm Avg. Power: 17.20 dBm

Channel 11 - 802.11 b Mode Gain : 16.0 Peak Power: 19.04 dBm Avg. Power: 17.10 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2312	45.77	V	74	-28.23	Peak	1.5	225	103 MHz Below the Fundamental
2312	39.53	V	54	-14.47	Avg	1.5	225	of Channel 1
2512	43.44	V	74	-30.56	Peak	1.58	225	103 MHz Above the Fundamental
2512	35.81	V	54	-18.19	Avg	1.58	225	of Channel 1
2312	45.87	H	74	-28.13	Peak	1.99	180	103 MHz Below the Fundamental
2312	39.31	H	54	-14.69	Avg	1.99	180	of Channel 1
2512	45.88	H	74	-28.12	Peak	1.72	180	103 MHz Above the Fundamental
2512	38.06	H	54	-15.94	Avg	1.72	180	of Channel 1
2336	51.27	V	74	-22.73	Peak	1.83	225	103 MHz Below the Fundamental
2336	47.54	V	54	-6.46	Avg	1.83	225	of Channel 6
2538.7	48.32	V	74	-25.68	Peak	1.6	225	103 MHz Above the Fundamental
2538.7	44.97	V	54	-9.03	Avg	1.6	225	of Channel 6
2336	55.09	H	74	-18.91	Peak	1.09	135	103 MHz Below the Fundamental
2336	51.49	H	54	-2.51	Avg	1.09	135	of Channel 6
2538.7	50.8	H	74	-23.2	Peak	1.19	135	103 MHz Above the Fundamental
2538.7	46.45	H	54	-7.55	Avg	1.19	135	of Channel 6
2360	50.18	V	74	-23.82	Peak	1.44	270	103 MHz Below the Fundamental
2360	45.66	V	54	-8.34	Avg	1.44	270	of Channel 11
2565	46.79	V	74	-27.21	Peak	2.77	225	103 MHz Above the Fundamental
2565	38.63	V	54	-15.37	Avg	2.77	225	of Channel 11
2360	53.54	H	74	-20.46	Peak	1.39	135	103 MHz Below the Fundamental
2360	49.86	H	54	-4.14	Avg	1.39	135	of Channel 11
2564	49.44	H	74	-24.56	Peak	1.51	135	103 MHz Above the Fundamental
2564	42.55	H	54	-11.45	Peak	1.51	135	of Channel 11

FCC 15.247

Intel Corporation — Date: 3/15/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

with Phycomp Antenna

Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.55 dBm Avg. Power: 16.05 dBm

Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 24.06 dBm Avg. Power: 15.36 dBm

Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 24.14 dBm Avg. Power: 15.46 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2312	51.24	V	74	-22.76	Peak	1.39	90	103 MHz Below the Fundamental
2312	47.24	V	54	-6.76	Avg	1.39	90	of Channel 1
2512	48.8	V	74	-25.2	Peak	2.82	135	103 MHz Above the Fundamental
2512	44.94	V	54	-9.06	Avg	2.82	135	of Channel 1
2312	50.95	H	74	-23.05	Peak	1.6	180	103 MHz Below the Fundamental
2312	47.41	H	54	-6.59	Avg	1.6	180	of Channel 1
2512	51.99	H	74	-22.01	Peak	2.03	180	103 MHz Above the Fundamental
2512	47.48	H	54	-6.52	Avg	2.03	180	of Channel 1
2336	52.53	V	74	-21.47	Peak	2.27	135	103 MHz Below the Fundamental
2336	48.81	V	54	-5.19	Avg	2.27	135	of Channel 6
2538.7	51.85	V	74	-22.15	Peak	2.79	225	103 MHz Above the Fundamental
2538.7	45.43	V	54	-8.57	Avg	2.79	225	of Channel 6
2336	52.84	H	74	-21.16	Peak	1.91	180	103 MHz Below the Fundamental
2336	49.57	H	54	-4.43	Avg	1.91	180	of Channel 6
2538.7	51.29	H	74	-22.71	Peak	1.98	225	103 MHz Above the Fundamental
2538.7	47.49	H	54	-6.51	Avg	1.98	225	of Channel 6
2360	51.86	V	74	-22.14	Peak	2.32	90	103 MHz Below the Fundamental
2360	47.84	V	54	-6.16	Avg	2.32	90	of Channel 11
2565	47.47	V	74	-26.53	Peak	2.85	90	103 MHz Above the Fundamental
2565	40.51	V	54	-13.49	Avg	2.85	90	of Channel 11
2360	52.12	H	74	-21.88	Peak	1.04	180	103 MHz Below the Fundamental
2360	48.62	H	54	-5.38	Avg	1.04	180	of Channel 11
2564	48.43	H	74	-25.57	Peak	1.94	180	103 MHz Above the Fundamental
2564	42.23	H	54	-11.77	Peak	1.94	180	of Channel 11

FCC 15.247
Intel Corporation Date: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Phycomp Antenna
Channel 1 - 802.11 b Mode Gain : 14.5 Peak Power: 17.38 dBm Avg. Power: 15.45 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	36.96	V	74	-37.04	Peak	2.21	90	Fundamental of LO for
3216	29.91	V	54	-24.09	Avg	2.21	90	Channel 1
6432	45.95	V	--	--	Peak	2.54	270	2nd Harmonic of LO for
6432	42.47	V	--	--	Avg	2.54	270	Channel 1
9648	47.98	V	--	--	Peak	2.41	45	3rd Harmonic of LO =
9648	37.37	V	--	--	Avg	2.41	45	4th Harmonic of Tx for Channel 1
12864	44.93	V	--	--	Peak	1.89	90	4th Harmonic of LO for
12864	32.05	V	--	--	Avg	1.89	90	Channel 1
3216	35.53	H	74	-38.47	Peak	2.42	180	Fundamental of LO for
3216	26.04	H	54	-27.96	Avg	2.42	180	Channel 1
6432	42.62	H	--	--	Peak	1.88	90	2nd Harmonic of LO for
6432	35.5	H	--	--	Avg	1.88	90	Channel 1
9648	48.04	H	--	--	Peak	1.35	315	3rd Harmonic of LO =
9648	32.58	H	--	--	Avg	1.35	315	4th Harmonic of Tx for Channel 1
12864		H	--	--	Peak			4th Harmonic of LO for
12864		H	--	--	Avg			Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Phycomp Antenna

Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 19.19 dBm Avg. Power: 17.20 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	36.32	V	74	-37.68	Peak	2.78	315	Fundamental of LO for
3249.33	26.62	V	54	-27.38	Avg	2.78	315	Channel 6
6498.67	46.28	V	--	--	Peak	2.21	225	2nd Harmonic of LO for
6498.67	42.4	V	--	--	Avg	2.21	225	Channel 6
9748	44.68	V	--	--	Peak	2.21	270	3rd Harmonic of LO =
9748	31.11	V	--	--	Avg	2.21	270	4th Harmonic of Tx for Channel 6
12997.3	45.71	V	--	--	Peak	2.11	270	4th Harmonic of LO for
12997.3	30.91	V	--	--	Avg	2.11	270	Channel 6
3249.33	35.57	H	74	-38.43	Peak	1.34	225	Fundamental of LO for
3249.33	25.59	H	54	-28.41	Avg	1.34	225	Channel 6
6498.67	44.01	H	--	--	Peak	2.56	180	2nd Harmonic of LO for
6498.67	38.11	H	--	--	Avg	2.56	180	Channel 6
9748	43.55	H	--	--	Peak	2.42	225	3rd Harmonic of LO =
9748	31.15	H	--	--	Avg	2.42	225	4th Harmonic of Tx for Channel 6
12997.3	43.89	H	--	--	Peak	2.56	225	4th Harmonic of LO for
12997.3	31.1	H	--	--	Avg	2.56	225	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247
Intel Corporation Date: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Phycomp Antenna
Channel 11 - 802.11 b Mode Gain : 16.0 Peak Power: 19.04 dBm Avg. Power: 17.10 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	36.23	V	74	-37.77	Peak	1.25	270	Fundamental of LO for
3282.67	22.83	V	54	-31.17	Avg	1.25	270	Channel 11
6565.33	45.31	V	--	--	Peak	2.91	225	2nd Harmonic of LO for
6565.33	41.03	V	--	--	Avg	2.91	225	Channel 11
9848	41.51	V	--	--	Peak	1.68	225	3rd Harmonic of LO =
9848	30.44	V	--	--	Avg	1.68	225	4th Harmonic of Tx for Channel 11
13130.7	43.78	V	--	--	Peak	2.91	0	4th Harmonic of LO for
13130.7	30.53	V	--	--	Avg	2.91	0	of Channel 11
3282.67	34.78	H	74	-39.22	Peak	2.2	225	Fundamental of LO for
3282.67	26.32	H	54	-27.68	Avg	2.2	225	Channel 11
6565.33	44.88	H	--	--	Peak	2.44	225	2nd Harmonic of LO for
6565.33	39.05	H	--	--	Avg	2.44	225	Channel 11
9848	44.32	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	43.19	H	--	--	Peak	2.01	315	4th Harmonic of LO for
13130.7	30.61	H	--	--	Avg	2.01	315	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247
Intel Corporation Date: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
with Phycomp Antenna
Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.55 dBm Avg. Power: 16.05 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	37.43	V	74	-36.57	Peak	1.74	135	Fundamental of LO for
3216	28.56	V	54	-25.44	Avg	1.74	135	Channel 1
6432	46.45	V	--	--	Peak	2.28	270	2nd Harmonic of LO for
6432	43.33	V	--	--	Avg	2.28	270	Channel 1
9648	44.67	V	--	--	Peak	1.83	225	3rd Harmonic of LO =
9648	32.84	V	--	--	Avg	1.83	225	4th Harmonic of Tx for Channel 1
12864	44.65	V	--	--	Peak	1.83	315	4th Harmonic of LO for
12864	31.01	V	--	--	Avg	1.83	315	Channel 1
3216	36.6	H	74	-37.4	Peak	2.54	225	Fundamental of LO for
3216	27.97	H	54	-26.03	Avg	2.54	225	Channel 1
6432	42.03	H	--	--	Peak	1.43	180	2nd Harmonic of LO for
6432	33.78	H	--	--	Avg	1.43	180	Channel 1
9648	46.94	H	--	--	Peak	2	180	3rd Harmonic of LO =
9648	32.56	H	--	--	Avg	2	180	4th Harmonic of Tx for Channel 1
12864	43.57	H	--	--	Peak	2.25	180	4th Harmonic of LO for
12864	30.79	H	--	--	Avg	2.25	180	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247
Intel Corporation Date: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
with Phycomp Antenna
Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 24.06 dBm Avg. Power: 15.36 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	35.58	V	74	-38.42	Peak	1.59	315	Fundamental of LO for
3249.33	26.42	V	54	-27.58	Avg	1.59	315	Channel 6
6498.67	47	V	--	--	Peak	2.01	270	2nd Harmonic of LO for
6498.67	43.62	V	--	--	Avg	2.01	270	Channel 6
9748	44.49	V	--	--	Peak	1.92	180	3rd Harmonic of LO =
9748	31.37	V	--	--	Avg	1.92	180	4th Harmonic of Tx for Channel 6
12997.3	43.65	V	--	--	Peak	1.63	180	4th Harmonic of LO for
12997.3	30.29	V	--	--	Avg	1.63	180	Channel 6
3249.33	35.66	H	74	-38.34	Peak	2.75	225	Fundamental of LO for
3249.33	27.95	H	54	-26.05	Avg	2.75	225	Channel 6
6498.67	43.22	H	--	--	Peak	2.96	225	2nd Harmonic of LO for
6498.67	35.4	H	--	--	Avg	2.96	225	Channel 6
9748	44.46	H	--	--	Peak	1.92	270	3rd Harmonic of LO =
9748	31.04	H	--	--	Avg	1.92	270	4th Harmonic of Tx for Channel 6
12997.3	42.97	H	--	--	Peak	1.93	225	4th Harmonic of LO for
12997.3	30.5	H	--	--	Avg	1.93	225	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247
Intel Corporation Date: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
with Phycomp Antenna
Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 24.14 dBm Avg. Power: 15.46 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	36	V	74	-38	Peak	2.13	90	Fundamental of LO for
3282.67	25.91	V	54	-28.09	Avg	2.13	90	Channel 11
6565.33	48.34	V	--	--	Peak	2.19	270	2nd Harmonic of LO for
6565.33	45.73	V	--	--	Avg	2.19	270	Channel 11
9848	42.92	V	--	--	Peak	2.04	90	3rd Harmonic of LO =
9848	30.86	V	--	--	Avg	2.04	90	4th Harmonic of Tx for Channel 11
13130.7	41.83	V	--	--	Peak	2.19	315	4th Harmonic of LO for
13130.7	29.8	V	--	--	Avg	2.19	315	of Channel 11
3282.67	35.72	H	74	-38.28	Peak	2.54	225	Fundamental of LO for
3282.67	23.15	H	54	-30.85	Avg	2.54	225	Channel 11
6565.33	43.26	H	--	--	Peak	3.01	0	2nd Harmonic of LO for
6565.33	38.77	H	--	--	Avg	3.01	0	Channel 11
9848	45.32	H	--	--	Peak	2.37	90	3rd Harmonic of LO =
9848	30.83	H	--	--	Avg	2.37	90	4th Harmonic of Tx for Channel 11
13130.7	42.21	H	--	--	Peak	2.28	180	4th Harmonic of LO for
13130.7	29.58	H	--	--	Avg	2.28	180	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Benigno Chavez

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

With Phycomp Antenna

Channel 149 - 802.11 a Mode Gain : 14.5 Peak Power: 21.11 dBm Avg. Power: 15.59 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7660	52.36	V	74	-21.64	Peak	3.72	180	Fundamental of LO for
7660	50.42	V	54	-3.58	Avg	3.72	180	Channel 149
15320	46.67	V	74	-74	Peak	2.59	270	2nd Harmonic of LO for
15320	31.91	V	54	-54	Avg	2.59	270	Channel 149
22980		V	74	-74	Peak			3rd Harmonic of LO for
22980		V	54	-54	Avg			No Emissions Detected
30640		V	--	--	Peak			4th Harmonic of LO for
30640		V	--	--	Avg			No Emissions Detected
7660	52.34	H	74	-21.66	Peak	2.95	225	Fundamental of LO for
7660	50.07	H	54	-3.93	Avg	2.95	225	Channel 149
15320	45.37	H	74	-74	Peak	2.68	180	2nd Harmonic of LO for
15320	31.76	H	54	-54	Avg	2.68	180	Channel 149
22980		H	74	-74	Peak			3rd Harmonic of LO for
22980		H	54	-54	Avg			No Emissions Detected
30640		H	--	--	Peak			4th Harmonic of LO for
30640		H	--	--	Avg			No Emissions Detected

FCC 15.247
Intel Corporation Date: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Benigno Chavez
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Phycomp Antenna
Channel 157 - 802.11 a Mode Gain : 14.5 Peak Power: 21.04 dBm Avg. Power: 15.4 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7713.33	51.48	V	74	-22.52	Peak	2.89	180	Fundamental of LO for
7713.33	49.49	V	54	-4.51	Avg	2.89	180	Channel 157
15426.7	45.53	V	74	-28.47	Peak	1.95	225	2nd Harmonic of LO for
15426.7	31.63	V	54	-22.37	Avg	1.95	225	Channel 157
23140		V	74	-74	Peak			3rd Harmonic of LO for
23140		V	54	-54	Avg			No Emissions Detected
30853.3		V	--	--	Peak			4th Harmonic of LO for
30853.3		V	--	--	Avg			No Emissions Detected
7713.33	47.15	H	74	-26.85	Peak	2.33	225	Fundamental of LO for
7713.33	43.85	H	54	-10.15	Avg	2.33	225	Channel 157
15426.7	45.01	H	74	-28.99	Peak	2.79	180	2nd Harmonic of LO for
15426.7	31.06	H	54	-22.94	Avg	2.79	180	Channel 157
23140		H	74	-74	Peak			3rd Harmonic of LO for
23140		H	54	-54	Avg			No Emissions Detected
30853.3		H	--	--	Peak			4th Harmonic of LO for
30853.3		H	--	--	Avg			No Emissions Detected

FCC 15.247
Intel Corporation Date: 3/14/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Benigno Chavez
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Phycomp Antenna
Channel 165 - 802.11 a Mode Gain : 14.5 Peak Power: 20.90 dBm Avg. Power: 15.17 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7766.67	47.61	V	74	-26.39	Peak	2.72	180	Fundamental of LO for
7766.67	44.52	V	54	-9.48	Avg	2.72	180	Channel 165
15533.3	46.09	V	74	-27.91	Peak	1.68	270	2nd Harmonic of LO for
15533.3	31.68	V	54	-22.32	Avg	1.68	270	Channel 165
23300		V	--	--	Peak			3rd Harmonic of LO for
23300		V	--	--	Avg			No Emissions Detected
31066.7		V	--	--	Peak			4th Harmonic of LO for
31066.7		V	--	--	Avg			No Emissions Detected
7766.67	45.95	H	74	-28.05	Peak	1.23	315	Fundamental of LO for
7766.67	42.29	H	54	-11.71	Avg	1.23	315	Channel 165
15533.3	45.05	H	74	-28.95	Peak	1.98	180	2nd Harmonic of LO for
15533.3	31.26	H	54	-22.74	Avg	1.98	180	Channel 165
23300		H	--	--	Peak			3rd Harmonic of LO for
23300		H	--	--	Avg			No Emissions Detected
31066.7		H	--	--	Peak			4th Harmonic of LO for
31066.7		H	--	--	Avg			No Emissions Detected

RSS-210
Intel Corporation
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
Model: WM3A2915ABG
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Phycomp Antenna
Channel 6 - 802.11 b Mode
Receive Mode

Date: 3/14/05
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
3249.33	36.32	V	80	-43.68	Peak	1.75	90	Fundamental of LO for
3249.33	28.01	V	60	-31.99	Avg	1.75	90	Channel 6
6498.67	46.06	V	80	-33.94	Peak	2.67	225	2nd Harmonic of LO for
6498.67	42.02	V	60	-17.98	Avg	2.67	225	Channel 6
9748	45.72	V	80	-34.28	Peak	1.66	225	3rd Harmonic of LO for
9748	31.43	V	60	-28.57	Avg	1.66	225	Channel 6
3249.33	33.94	H	80	-46.06	Peak	2.08	225	Fundamental of LO for
3249.33	20.35	H	60	-39.65	Avg	2.08	225	Channel 6
6498.67	41.99	H	80	-38.01	Peak	2.08	270	2nd Harmonic of LO for
6498.67	33.75	H	60	-26.25	Avg	2.08	270	Channel 6
9748	43.67	H	80	-36.33	Peak	2.35	315	3rd Harmonic of LO for
9748	31.28	H	60	-28.72	Avg	2.35	315	Channel 6

RSS-210
Intel Corporation
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
Model: WM3A2915ABG
Date: 3/14/05
Lab: B
Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
with Phycomp Antenna
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	37.29	V	80	-42.71	Peak	2.37	270	Fundamental of LO for
3249.33	28.53	V	60	-31.47	Avg	2.37	270	Channel 6
6498.67	44.79	V	80	-35.21	Peak	2.39	270	2nd Harmonic of LO for
6498.67	41.02	V	60	-18.98	Avg	2.39	270	Channel 6
9748	43.82	V	80	-36.18	Peak	3.07	225	3rd Harmonic of LO for
9748	31.02	V	60	-28.98	Avg	3.07	225	Channel 6
3249.33	32.5	H	80	-47.5	Peak	1.63	225	Fundamental of LO for
3249.33	20.02	H	60	-39.98	Avg	1.63	225	Channel 6
6498.67	41.01	H	80	-38.99	Peak	1.67	180	2nd Harmonic of LO for
6498.67	34.79	H	60	-25.21	Avg	1.67	180	Channel 6
9748	43.83	H	80	-36.17	Peak	1.49	225	3rd Harmonic of LO for
9748	31.22	H	60	-28.78	Avg	1.49	225	Channel 6

RSS-210

Intel Corporation — Date: 3/14/05

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

Model: WM3A2915ABG — Tested By: Benigno Chavez

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

With Phycomp Antenna

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	39.86	V	80	-40.14	Peak	3.48	180	Fundamental of LO for
7713.33	29.85	V	60	-30.15	Avg	3.48	180	Channel 157
15426.7	44.27	V	80	-35.73	Peak	2.05	180	2nd Harmonic of LO for
15426.7	30.89	V	60	-29.11	Avg	2.05	180	Channel 157
23140		V	80	-80	Peak			3rd Harmonic of LO for
23140		V	60	-60	Avg			No Emissions Detected
7713.33	39.99	H	80	-40.01	Peak	2.82	180	Fundamental of LO for
7713.33	30.11	H	60	-29.89	Avg	2.82	180	Channel 157
15426.7	44	H	80	-36	Peak	2.65	225	2nd Harmonic of LO for
15426.7	30.65	H	60	-29.35	Avg	2.65	225	Channel 157
23140		H	80	-80	Peak			3rd Harmonic of LO for
23140		H	60	-60	Avg			No Emissions Detected

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics Page : 1/1
Customer : Intel Date : 3/15/2005
Manufacturer : Intel Time : 19:11:36
Eut name : Intel Mini PCI Type 3A 802.11abg Wi Lab : A
Model : WM3A2915ABG Test Distance : 3.0
Serial # : N/A
Specification : FCC B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Scan Type: Qualification w/ Phycomp Antenna
Scan Range: 10 kHz to 1000 MHz (Vertical & Horizontal)
Mode of Operation (worst case): Transmit
Test Engineer: 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	139.296	48.40	2.90	11.92	32.28	30.94	43.50	-12.56
2V	140.449	49.10	2.92	11.90	32.27	31.64	43.50	-11.86
3H	142.914	49.70	2.97	11.87	32.25	32.28	43.50	-11.22
4H	146.486	52.70	3.03	11.83	32.23	35.34	43.50	-8.16
5V	150.973	53.00	3.09	11.95	32.21	35.83	43.50	-7.67
6H	152.523	57.60	3.08	12.19	32.22	40.64	43.50	-2.86
7H	152.523Qp	52.86	3.08	12.19	32.22	35.90	43.50	-7.60
8V	154.297	51.00	3.06	12.46	32.24	34.28	43.50	-9.22
9H	178.186	45.10	2.91	14.89	32.40	30.50	43.50	-13.00
10V	178.890	41.80	2.92	14.78	32.40	27.09	43.50	-16.41
11H	185.784	43.70	2.94	14.93	32.40	29.17	43.50	-14.33
12H	202.048	43.80	3.01	15.74	32.41	30.14	43.50	-13.36
13H	220.741	50.60	3.08	16.05	32.48	37.25	46.00	-8.75
14V	232.177	41.50	3.16	16.23	32.44	28.45	46.00	-17.55
15H	237.040	48.60	3.20	16.31	32.40	35.71	46.00	-10.29
16V	314.701	45.50	3.66	13.15	32.27	30.04	46.00	-15.96
17H	314.715	52.90	3.66	13.15	32.27	37.44	46.00	-8.56

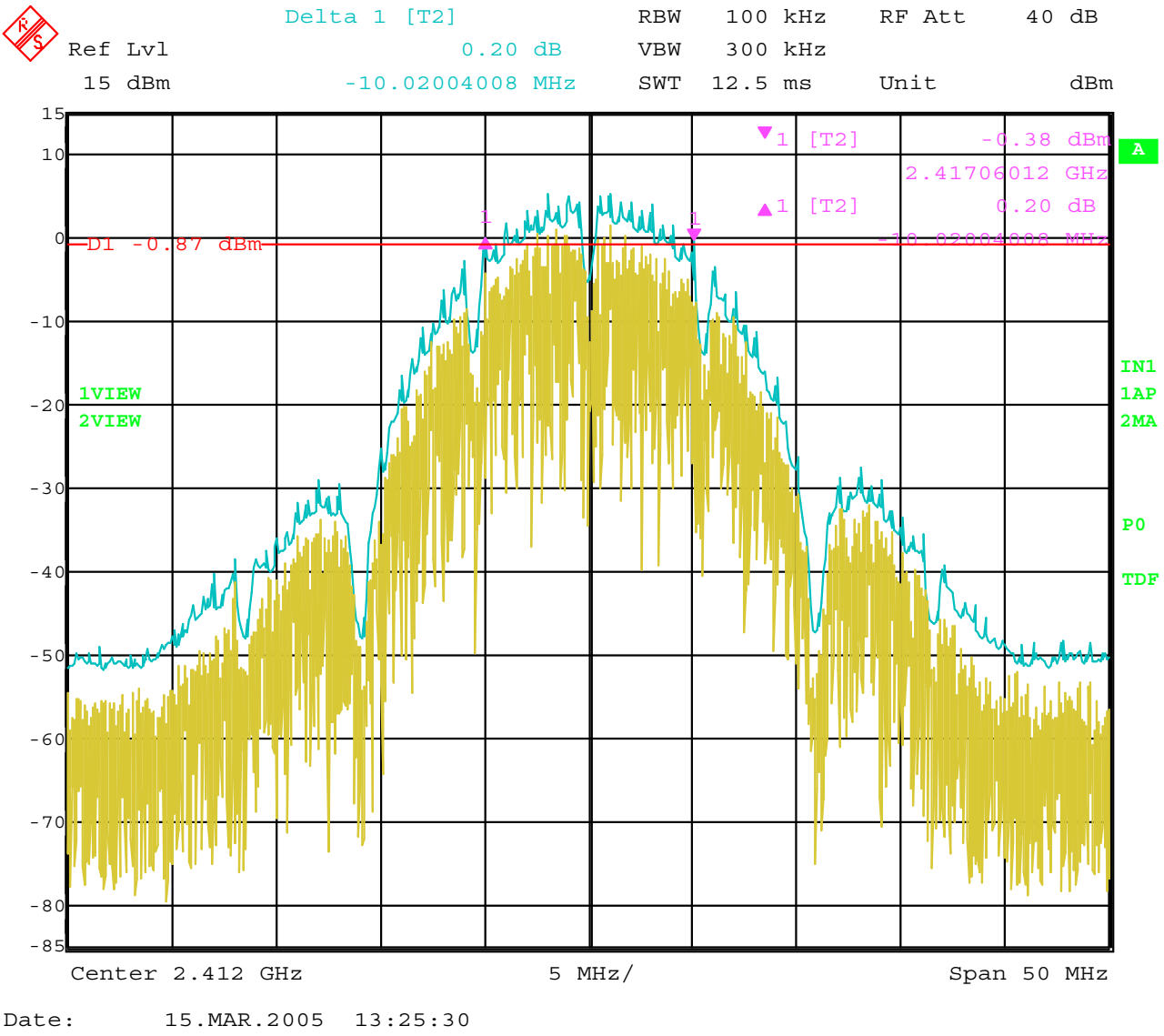
FCC Class B
Intel Corporation Date: 3/15/05
Intel Mini PCI Type 3A 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

With Phycomp Antenna
Digital Portion - 1 GHz to 40 GHz

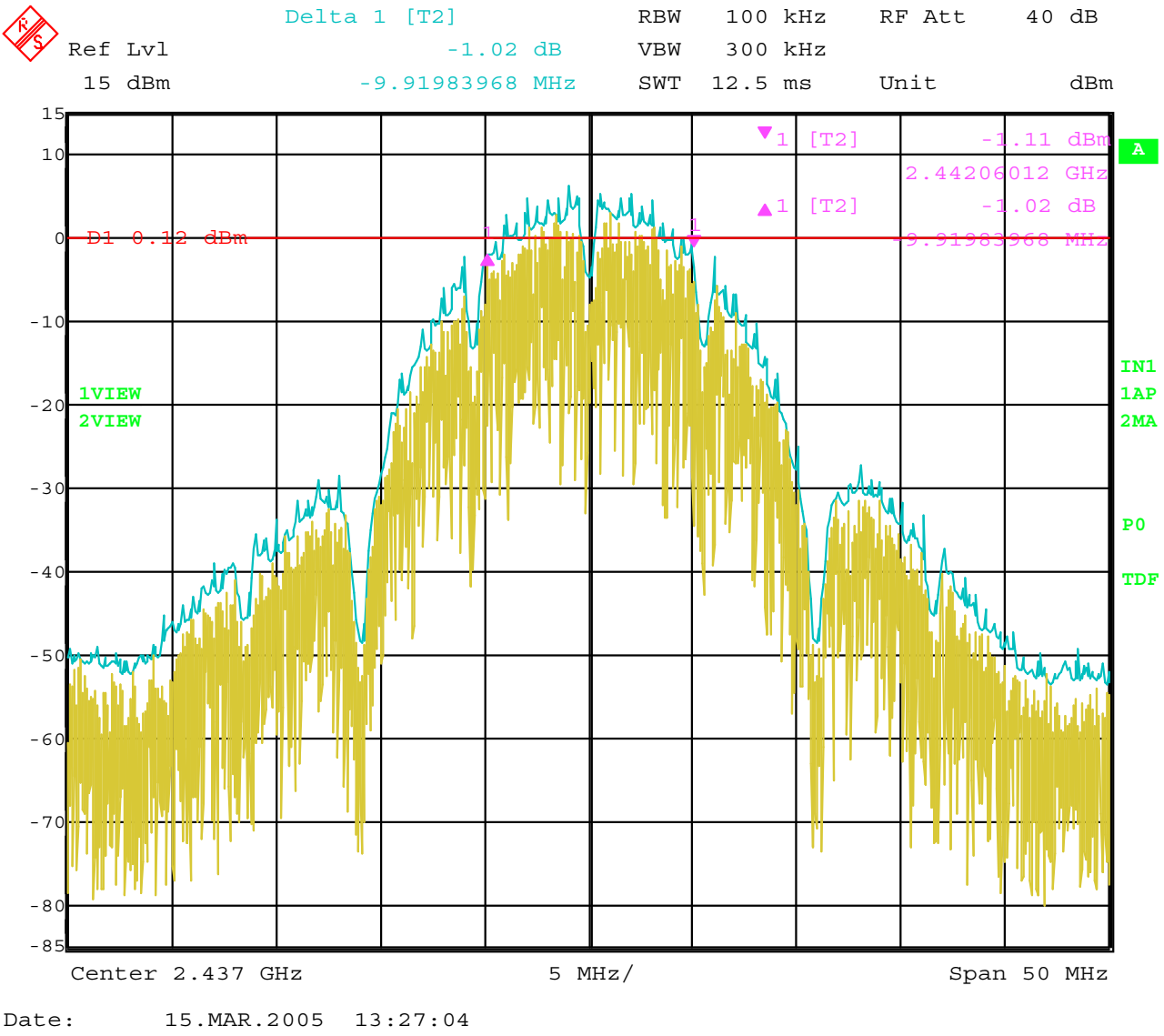
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1150	42.9	V	74	-31.1	Peak	2.71	225	
1150	26.23	V	54	-27.77	Avg	2.71	225	
1555	41.2	V	74	-32.8	Peak	2.42	0	
1555	22.83	V	54	-31.17	Avg	2.42	0	
1829	39.34	V	74	-34.66	Peak	1.99	180	
1829	24.58	V	54	-29.42	Avg	1.99	180	
2344	40.36	V	74	-33.64	Peak	2.64	225	
2344	28.39	V	54	-25.61	Avg	2.64	225	
1150	36.83	H	74	-37.17	Peak	2.58	225	
1150	20.75	H	54	-33.25	Avg	2.58	225	
1555	39.68	H	74	-34.32	Peak	2.42	135	
1555	22.75	H	54	-31.25	Avg	2.42	135	
1829	35.56	H	74	-38.44	Peak	2.42	180	
1829	22.69	H	54	-31.31	Avg	2.42	180	
2344	40.9	H	74	-33.1	Peak	2.42	315	
2344	30.28	H	54	-23.72	Avg	2.42	315	

-6 dB BANDWIDTH

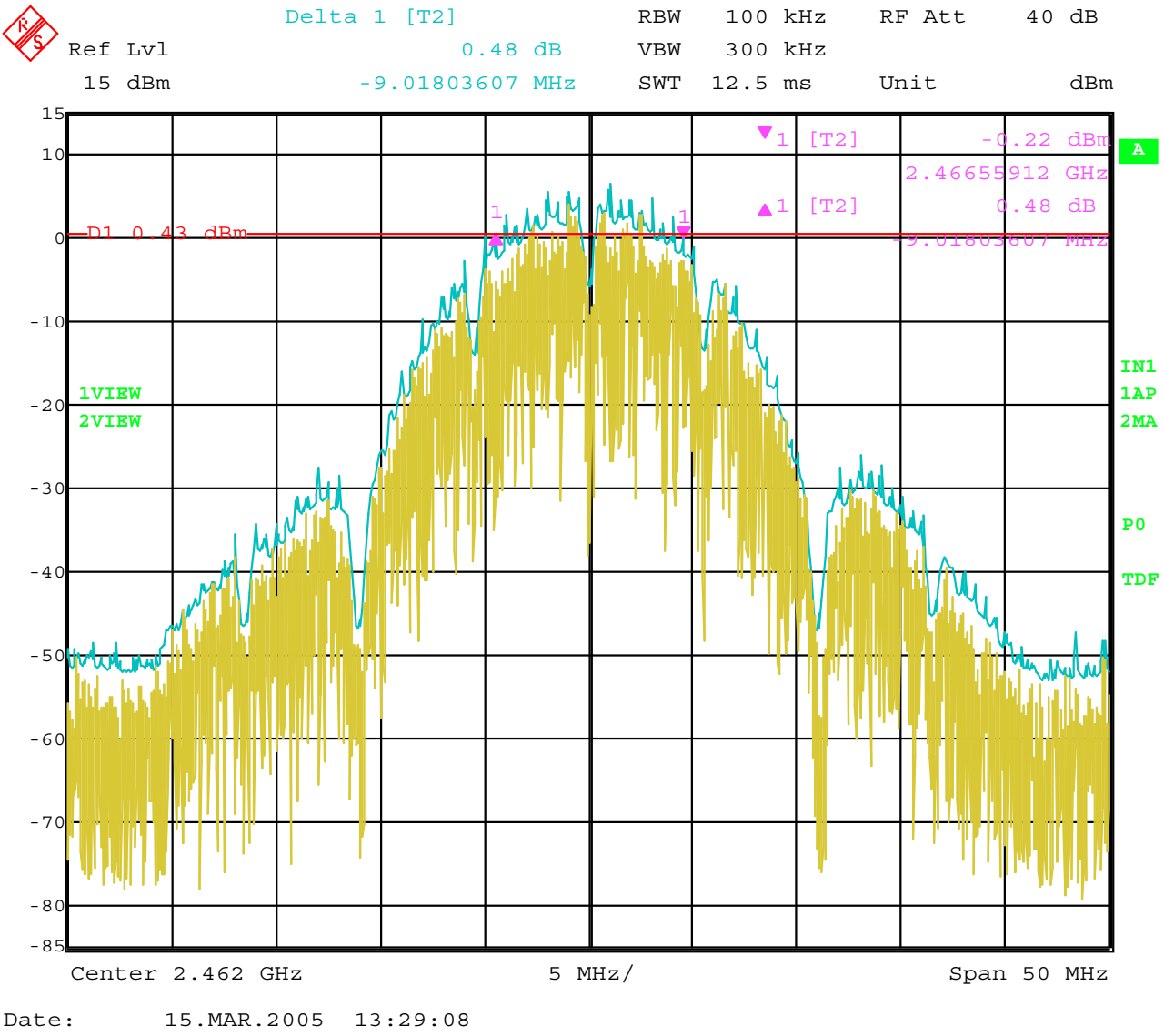
DATA SHEETS



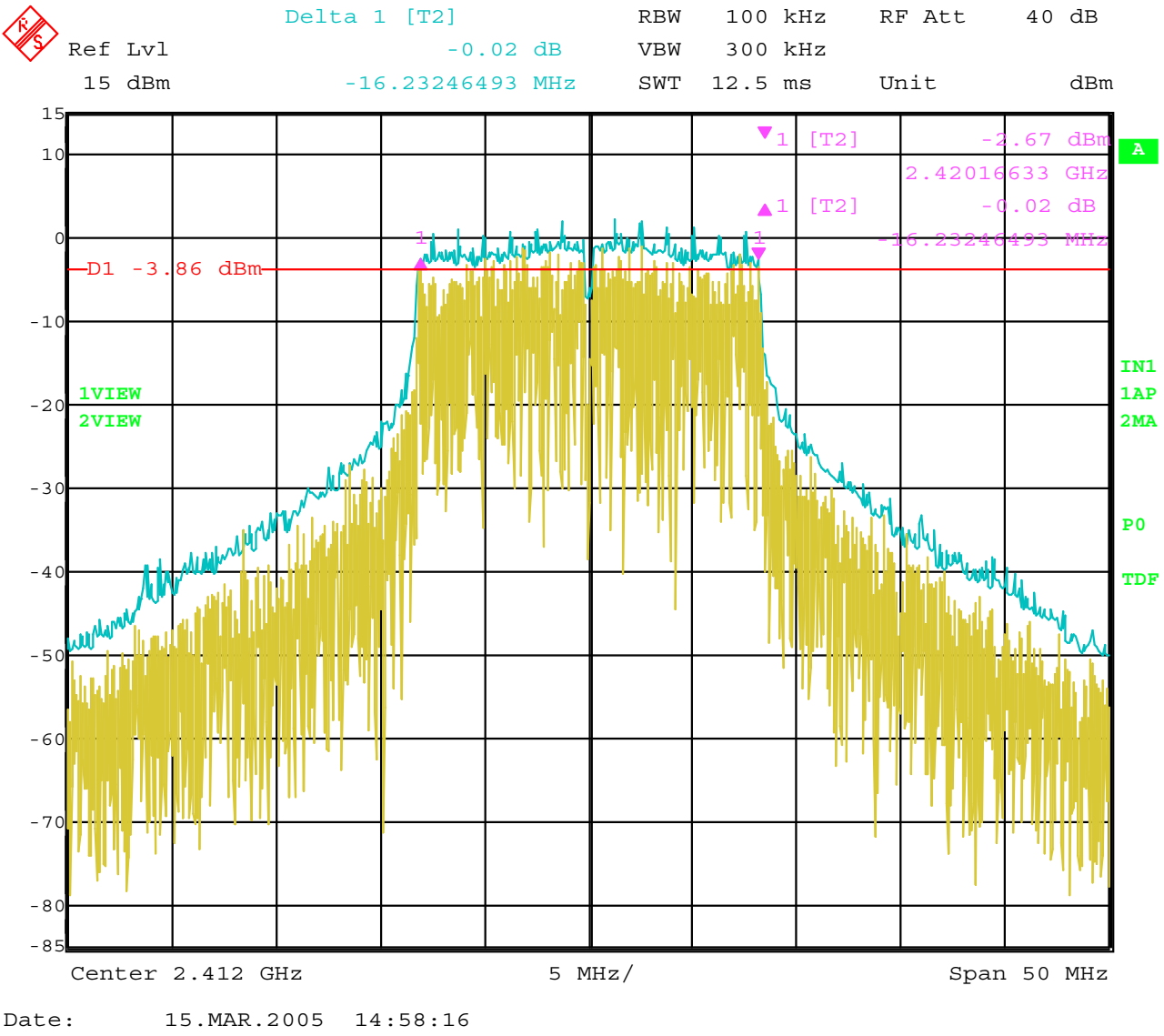
Bandwidth 6 dB – Channel 1 – 802.11 b Mode – Phycomp Antenna



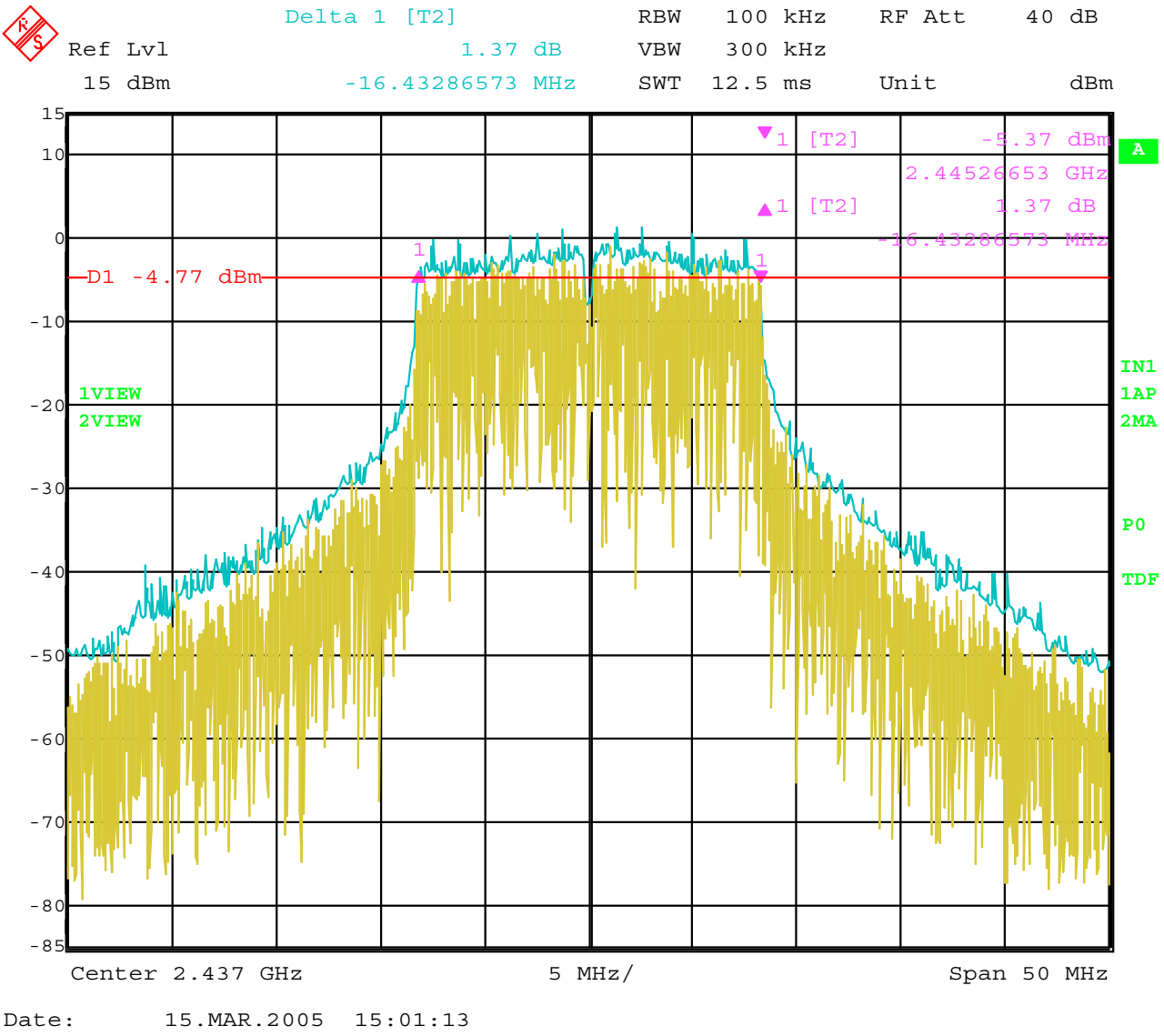
Bandwidth 6 dB – Channel 6 – 802.11 b Mode – Phycomp Antenna



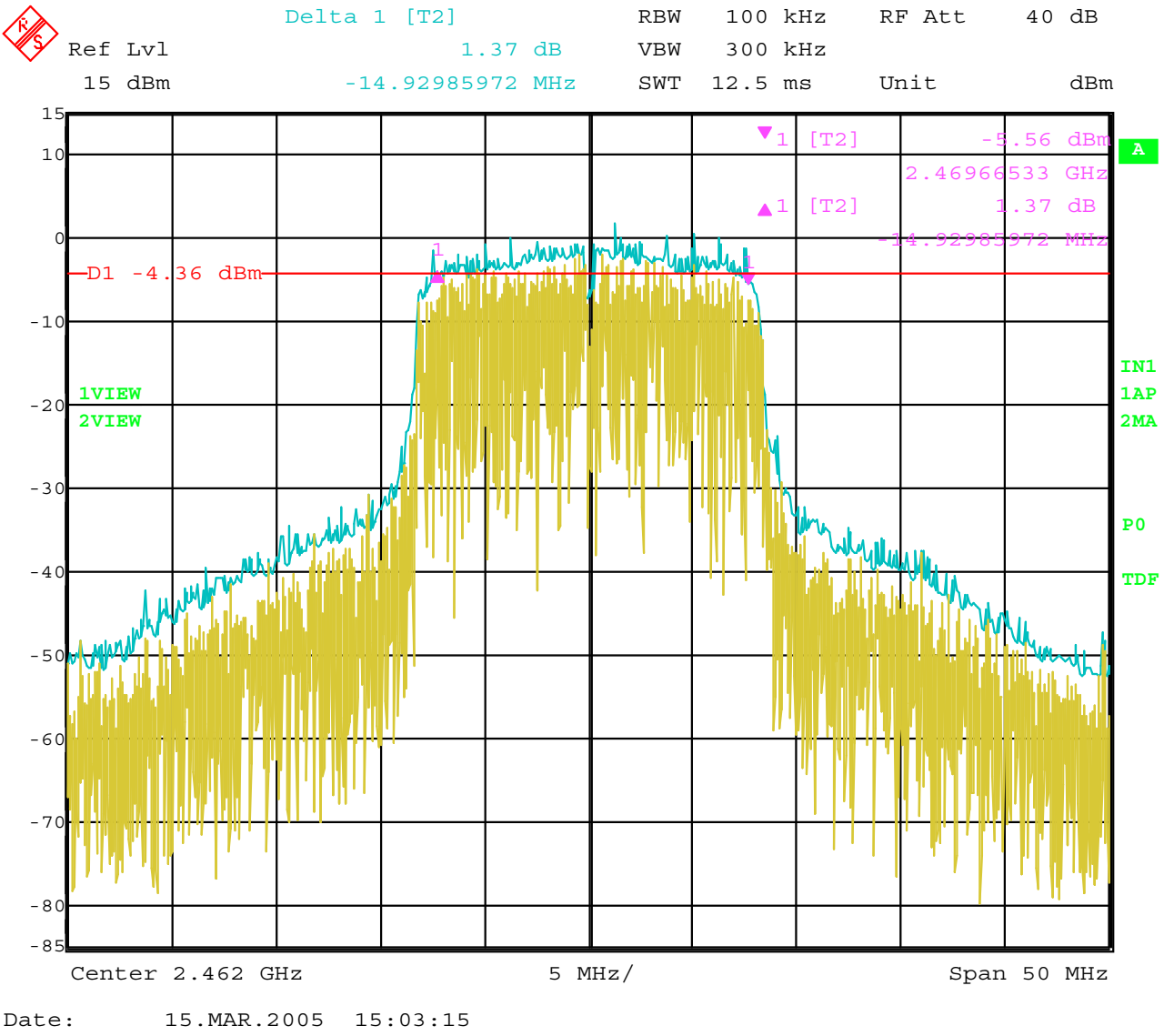
Bandwidth 6 dB – Channel 11 – 802.11 b Mode – Phycomp Antenna



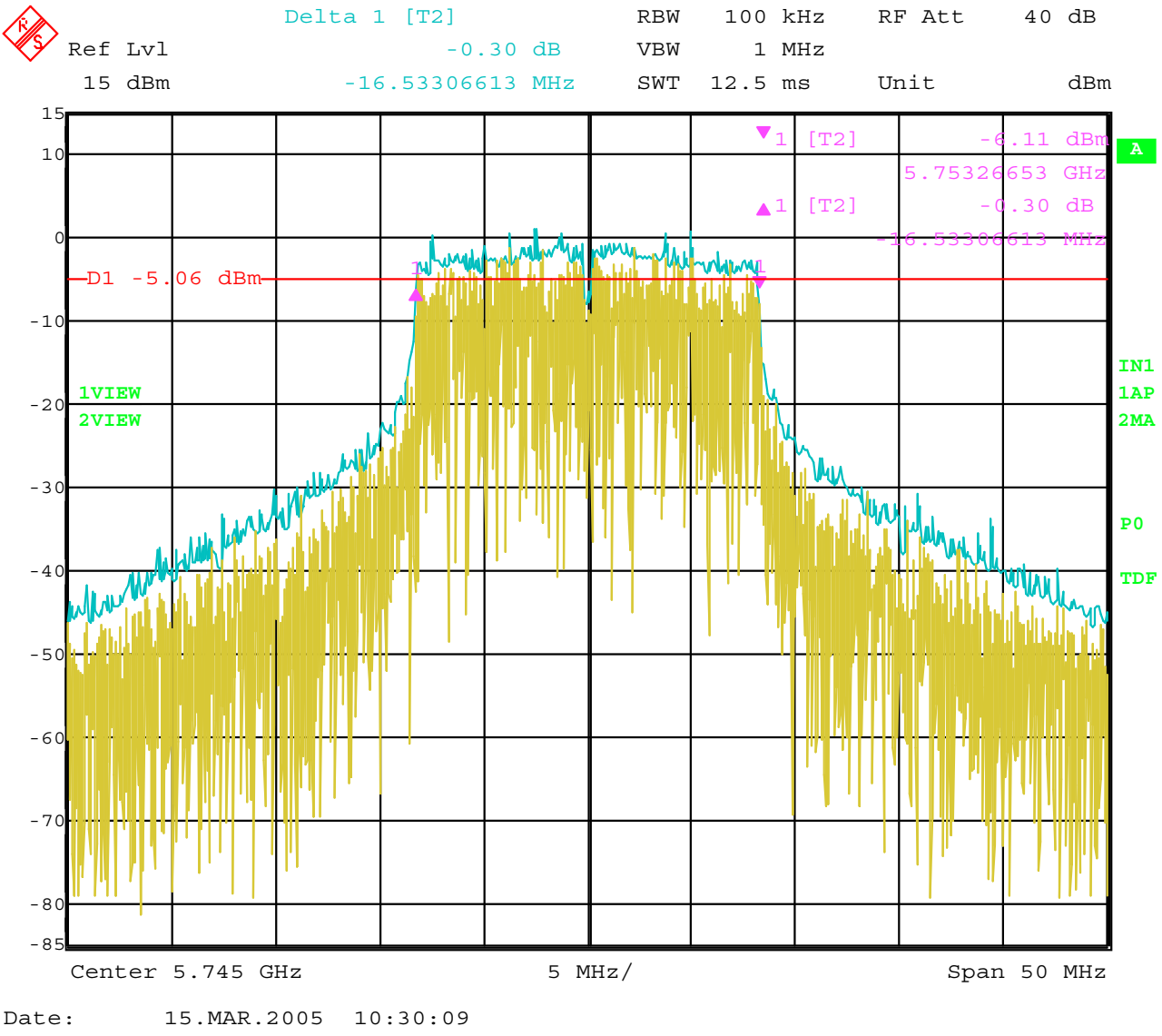
Bandwidth 6 dB – Channel 1 – 802.11 g Mode – Phycomp Antenna



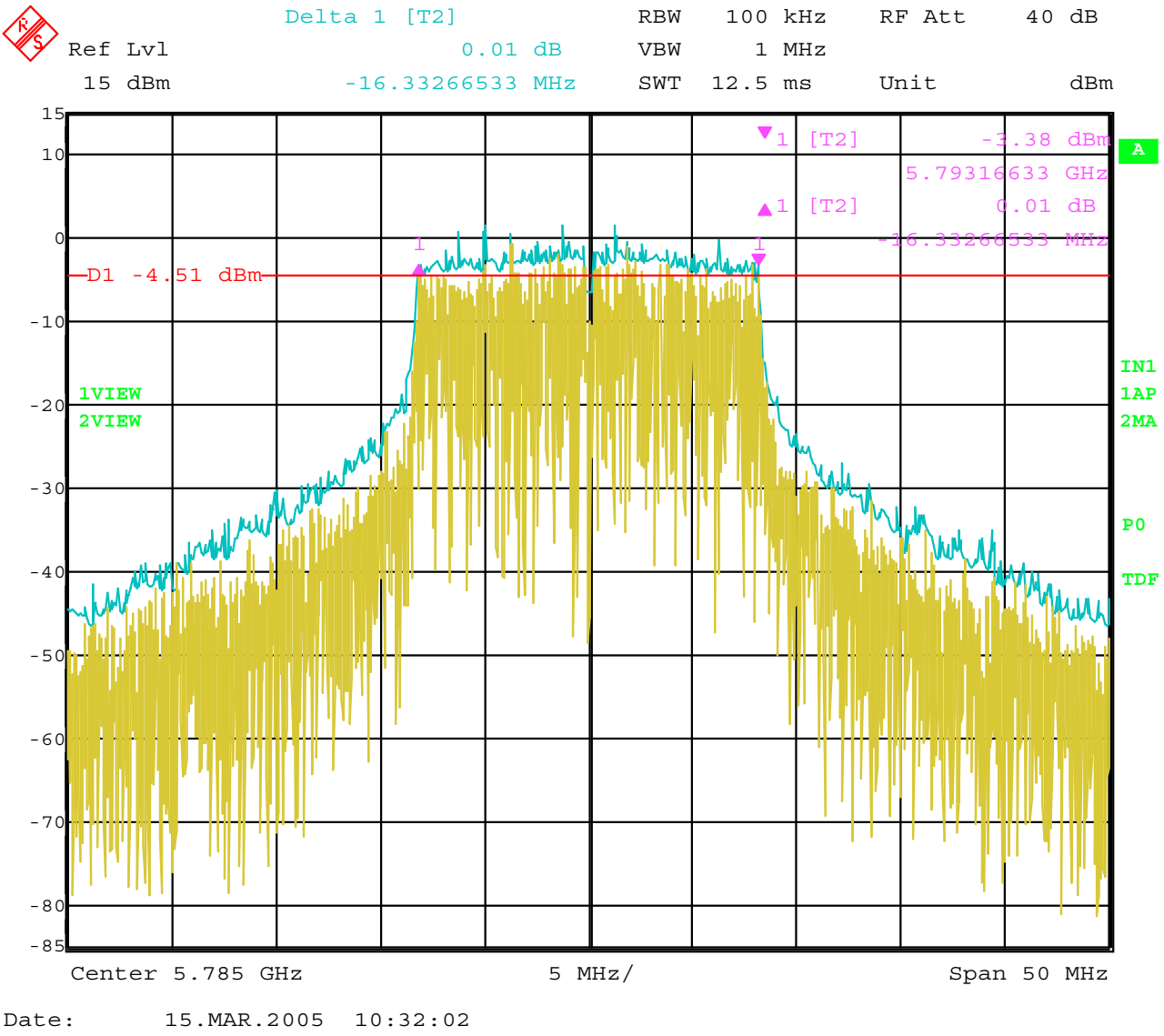
Bandwidth 6 dB – Channel 6 – 802.11 g Mode – Phycomp Antenna



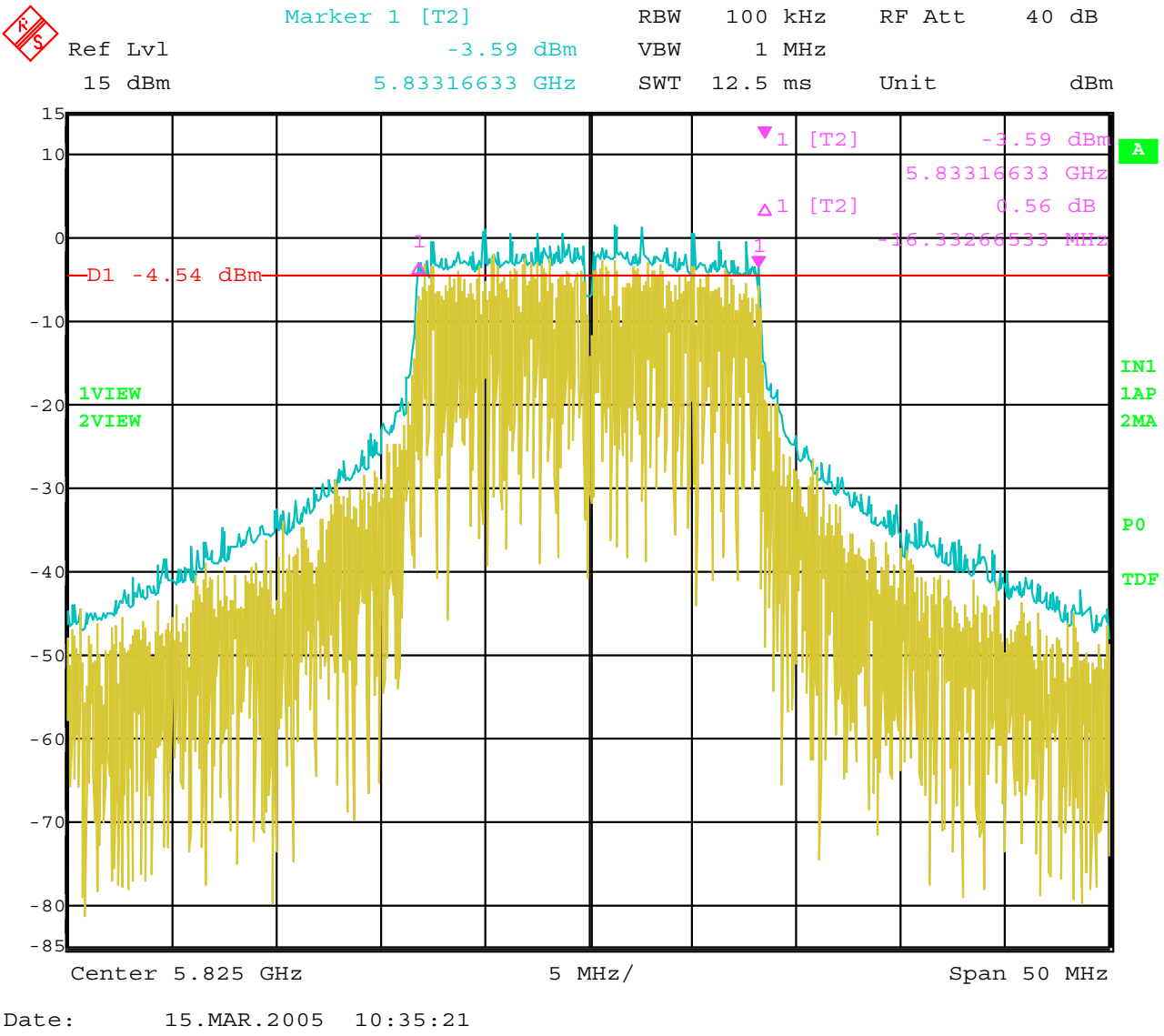
Bandwidth 6 dB – Channel 11 – 802.11 g Mode – Phycomp Antenna



Bandwidth 6 dB – Channel 149 – 802.11 a Mode – Phycomp Antenna



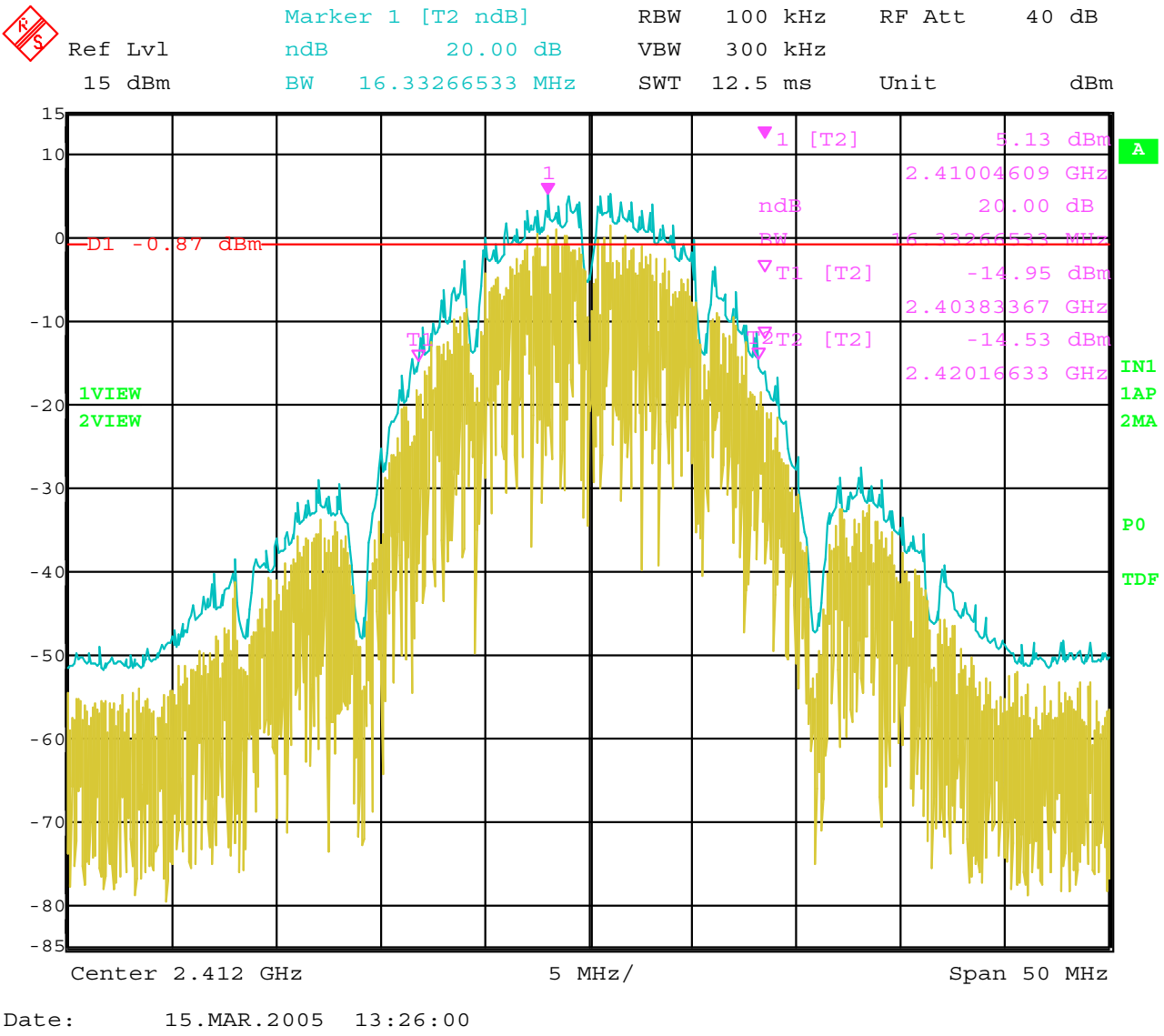
Bandwidth 6 dB – Channel 157 – 802.11 a Mode – Phycomp Antenna



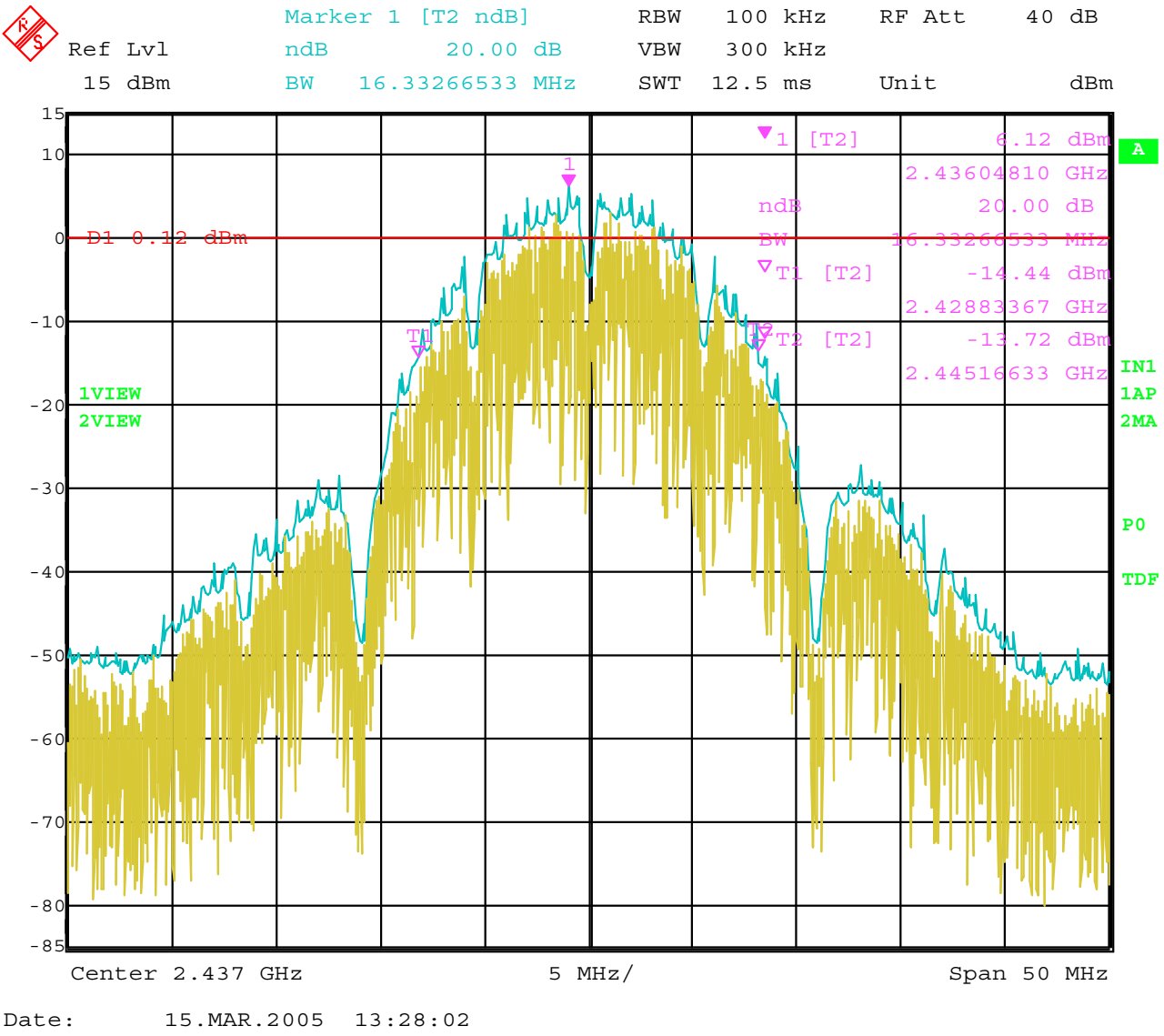
Bandwidth 6 dB – Channel 165 – 802.11 a Mode – Phycomp Antenna

-20 dB BANDWIDTH

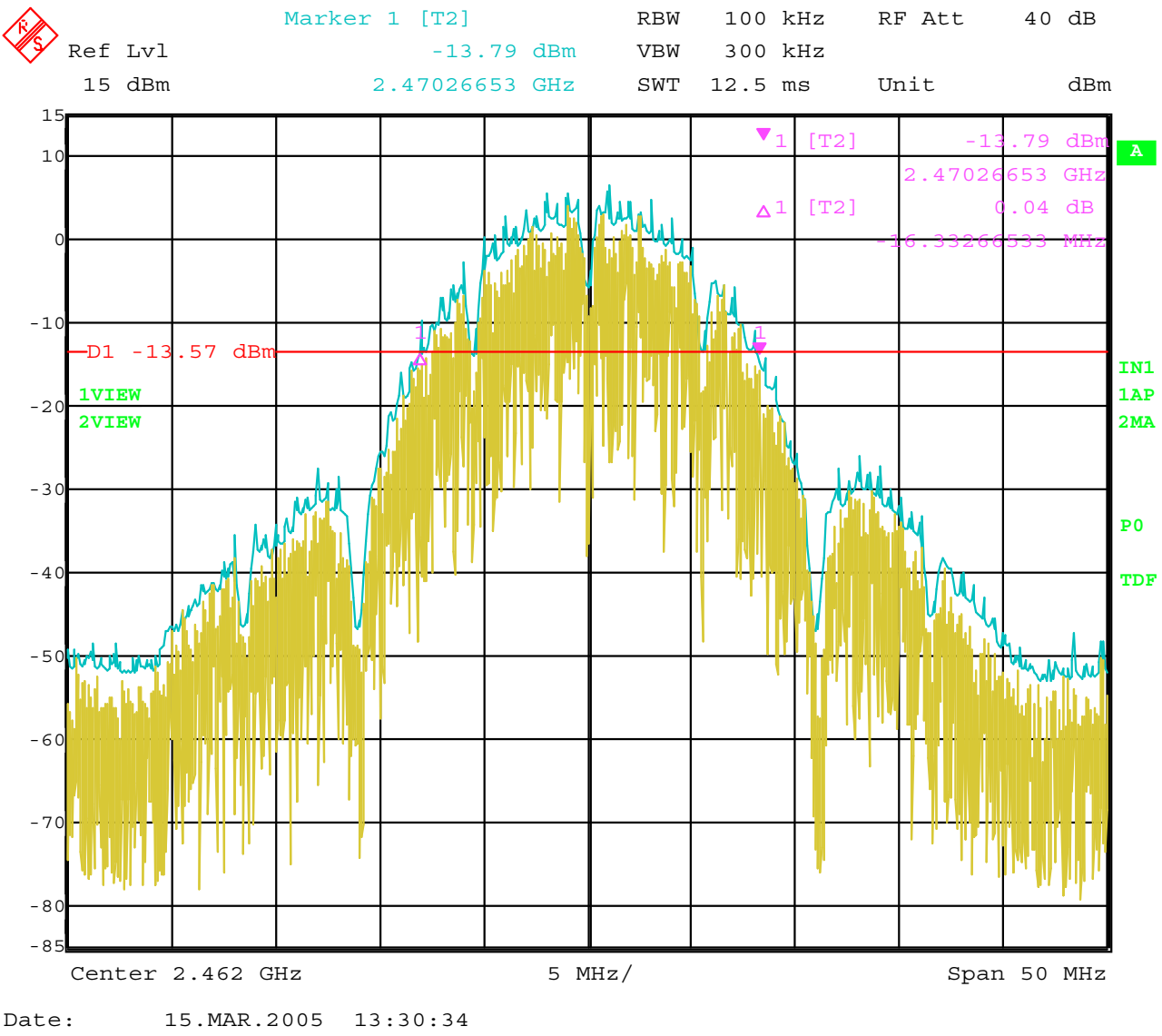
DATA SHEETS



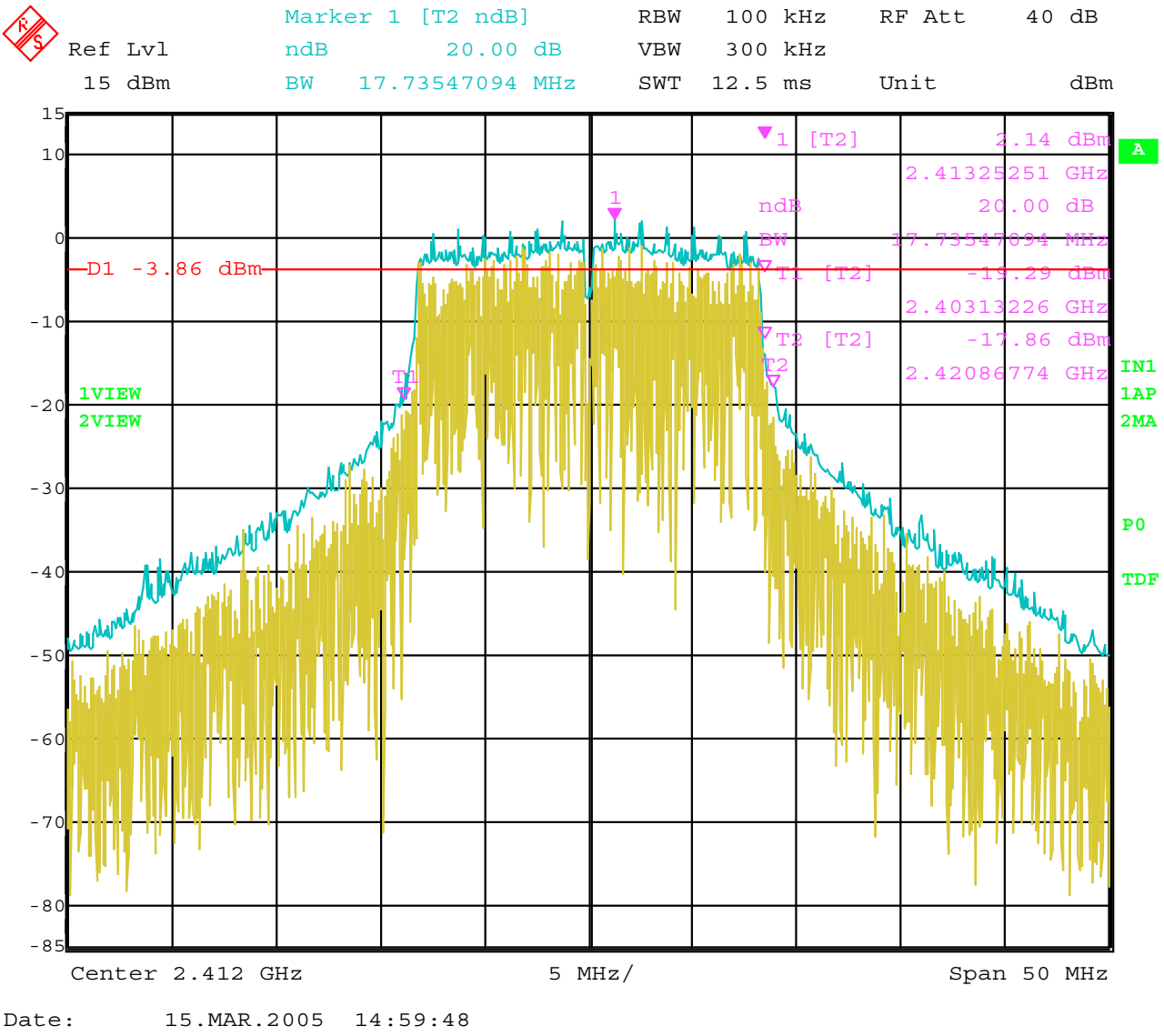
Bandwidth 20 dB – Channel 1 – 802.11 b Mode – Phycomp Antenna



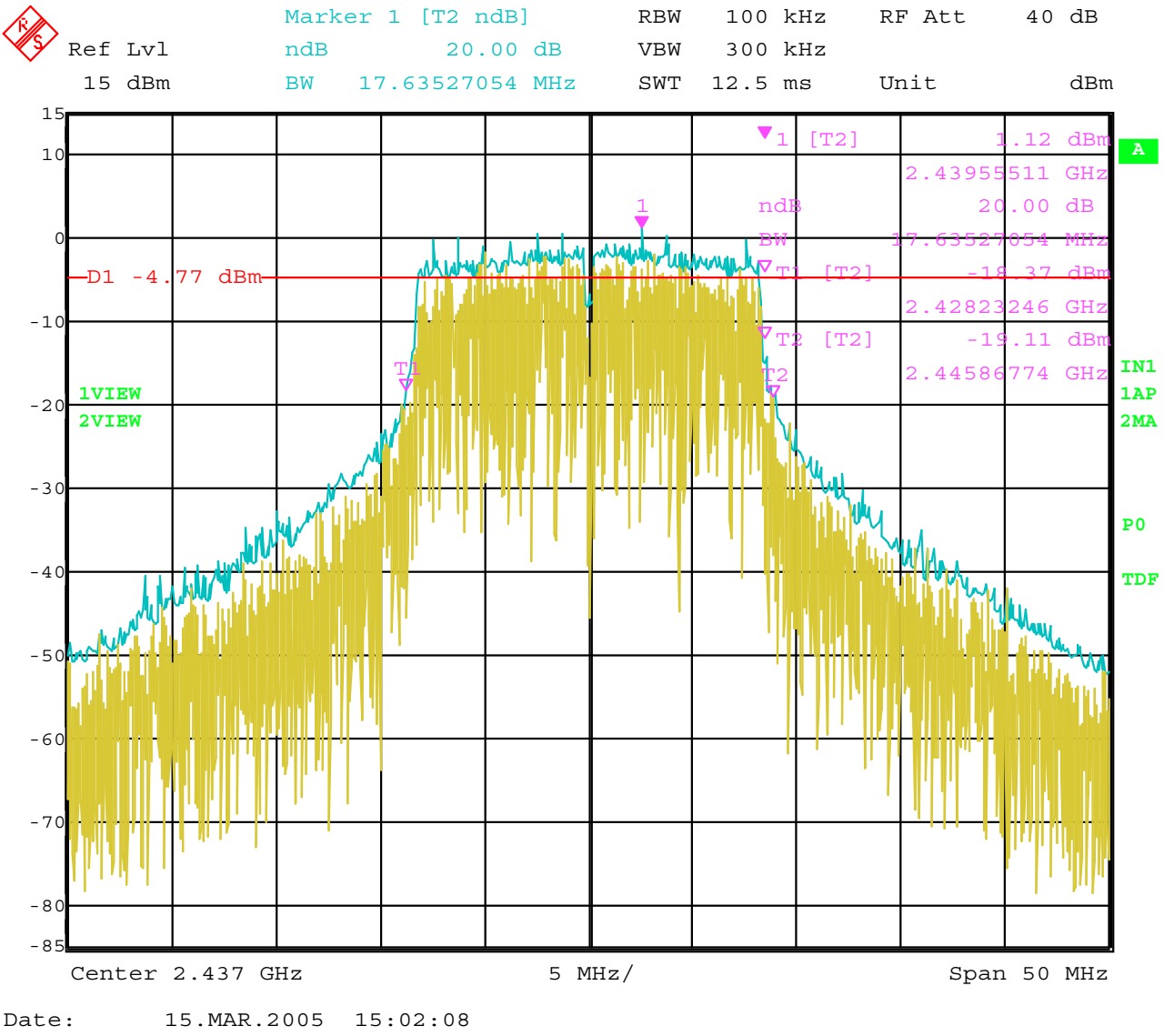
Bandwidth 20 dB – Channel 6 – 802.11 b Mode – Phycomp Antenna



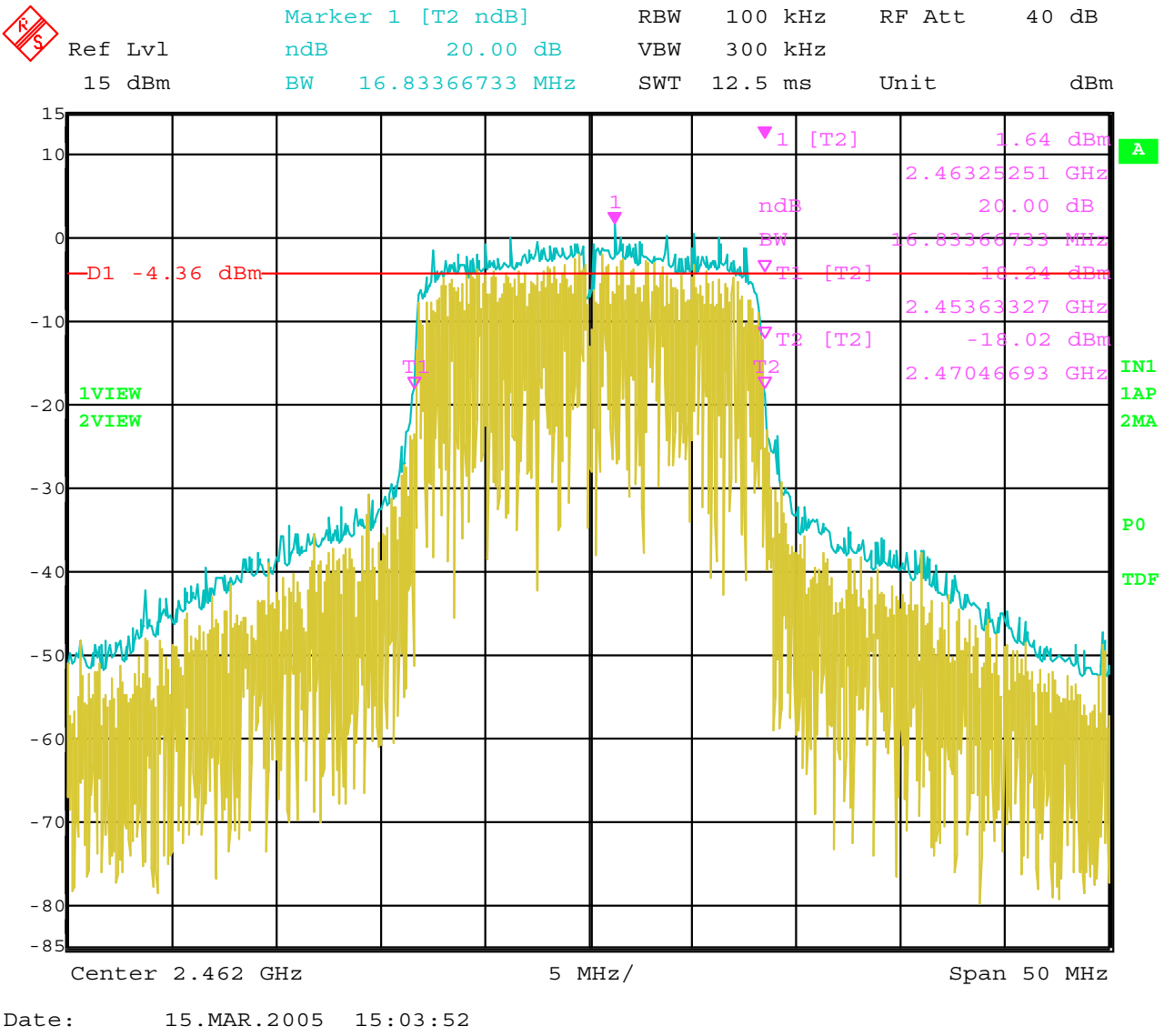
Bandwidth 20 dB – Channel 11 – 802.11 b Mode – Phycomp Antenna



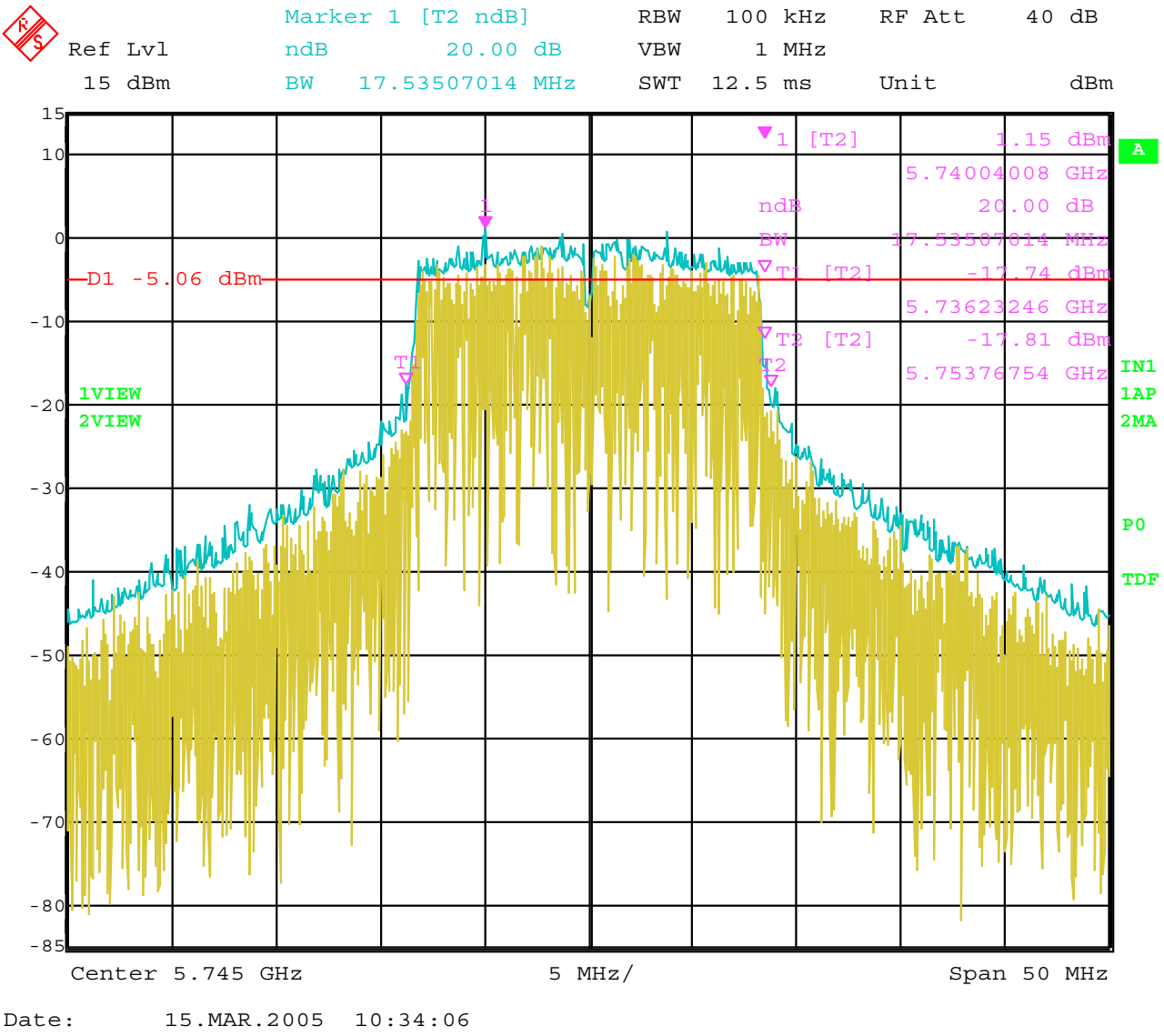
Bandwidth 20 dB – Channel 1 – 802.11 g Mode – Phycomp Antenna



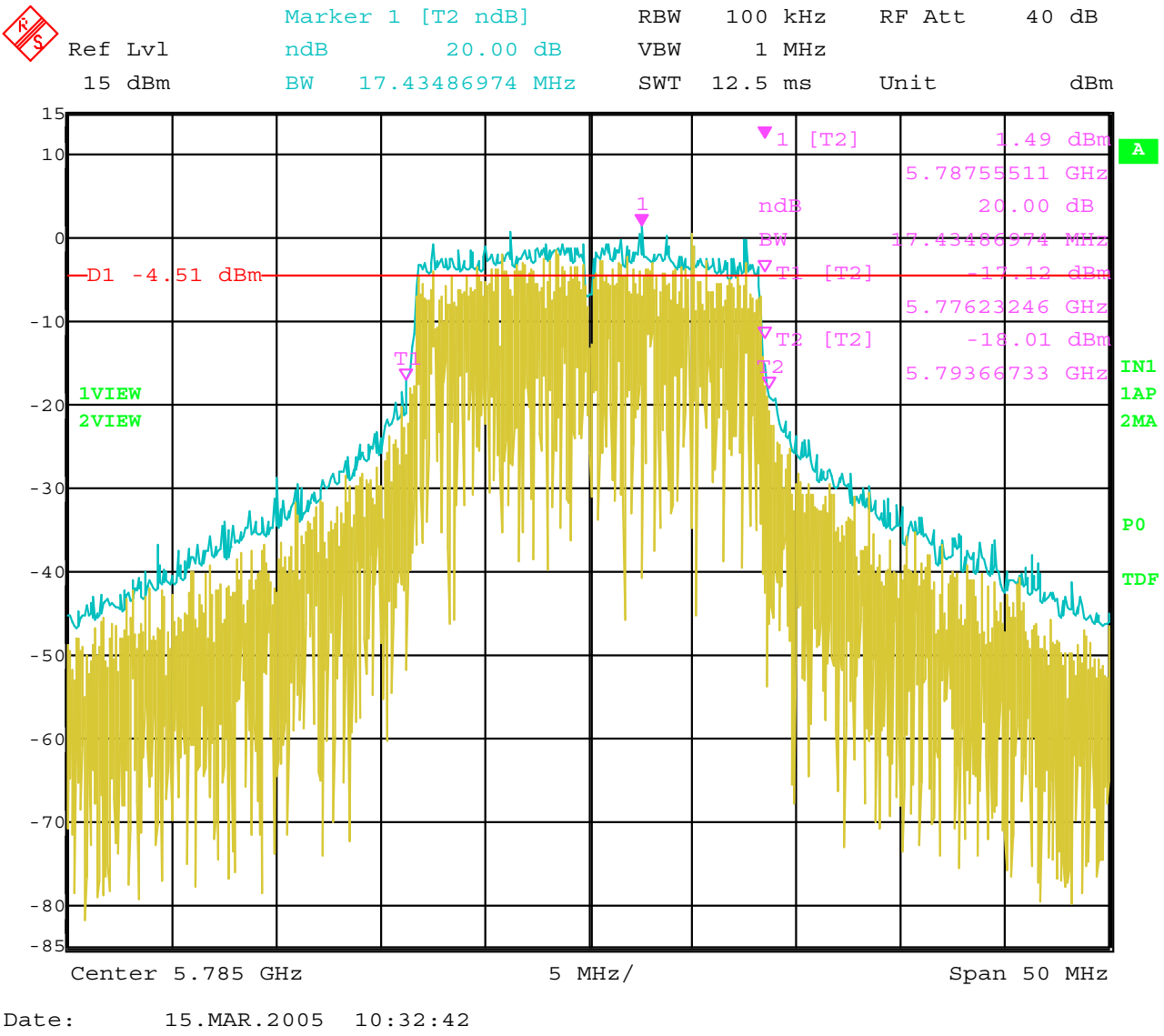
Bandwidth 20 dB – Channel 6 – 802.11 g Mode – Phycomp Antenna



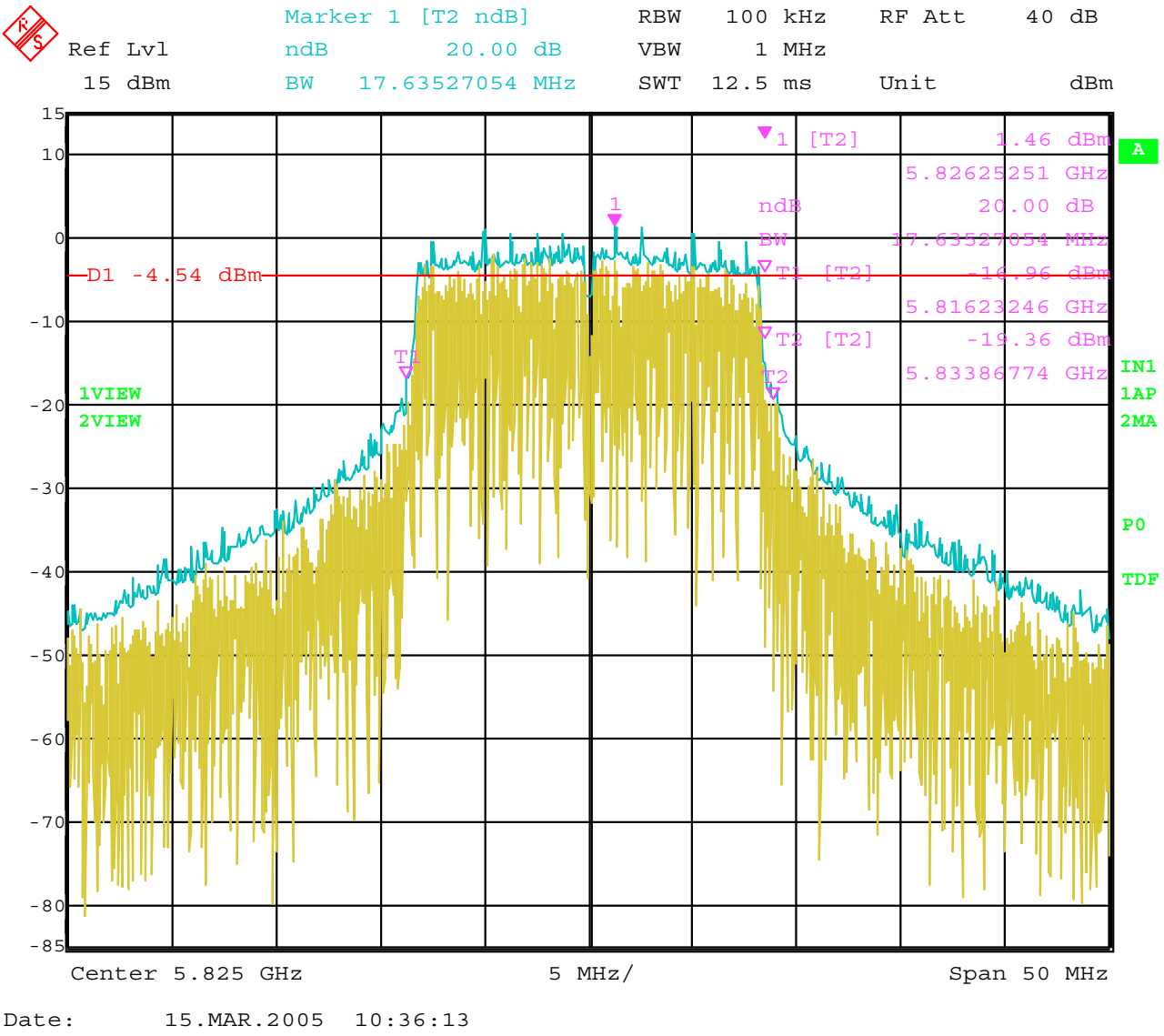
Bandwidth 20 dB – Channel 11 – 802.11 g Mode – Phycomp Antenna



Bandwidth 20 dB – Channel 149 – 802.11 a Mode – Phycomp Antenna



Bandwidth 20 dB – Channel 157 – 802.11 a Mode – Phycomp Antenna



Bandwidth 20 dB – Channel 165 – 802.11 a Mode – Phycomp Antenna

PEAK POWER OUTPUT

DATA SHEETS

PEAK OUTPUT POWER

Intel Corporation

Intel Mini PCI Type 3A 802.11 ABG Wireless LAN Adapter

MODEL: WM3A2915ABG

With Phycomp Antenna

For use in the HP Agency Series #: PP17L

802.11 b Mode (Worst Case Rate is 1 Mbps)

CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	14.5	17.38
6 (2437 MHz)	16.0	19.19
11 (2462 MHz)	16.0	19.04

802.11 g Mode (Worst Case Rate is 6 Mbps)

CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	16.5	24.55
6 (2437 MHz)	16.5	24.06
11 (2462 MHz)	16.5	24.14

PEAK OUTPUT POWER

Intel Corporation

Intel Mini PCI Type 3A 802.11 ABG Wireless LAN Adapter

MODEL: WM3A2915ABG

With Phycomp Antenna

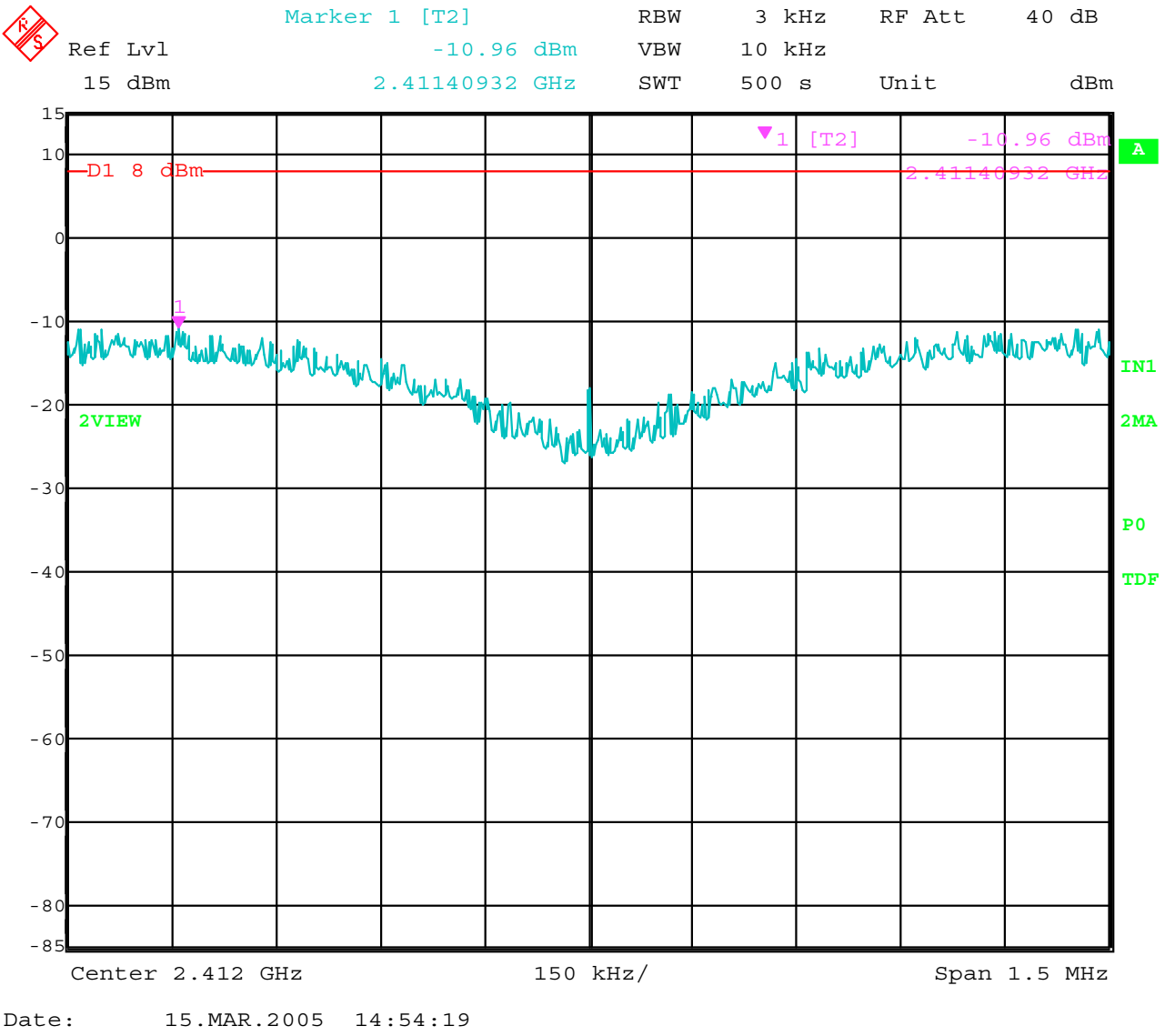
For use in the HP Agency Series #: PP17L

802.11 a Mode (Worst Case Rate is 6 Mbps)

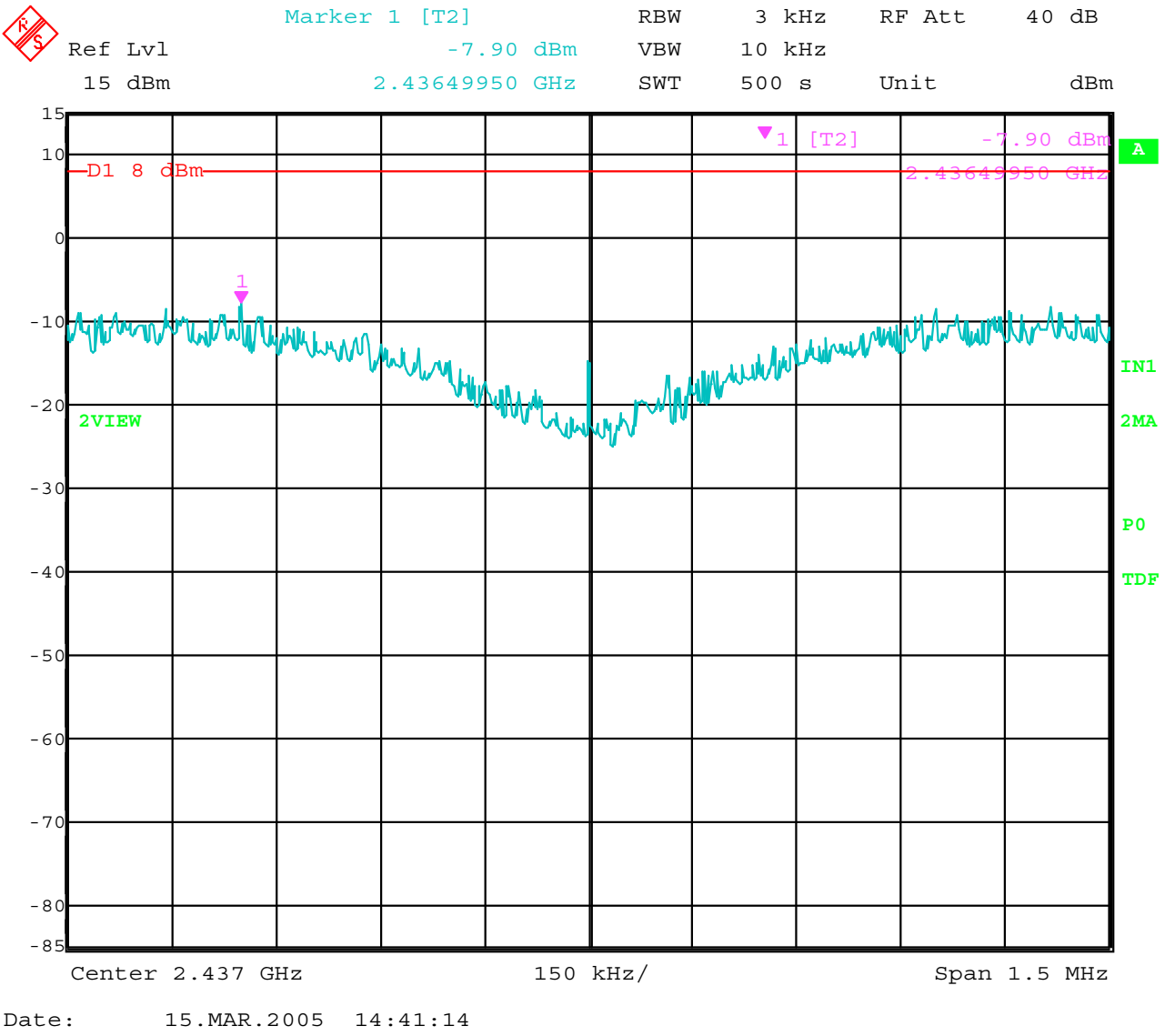
CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
149 (5745 MHz)	14.5	21.11
157 (5785 MHz)	14.5	21.04
165 (5825 MHz)	14.5	20.90

PEAK POWER SPECTRAL DENSITY

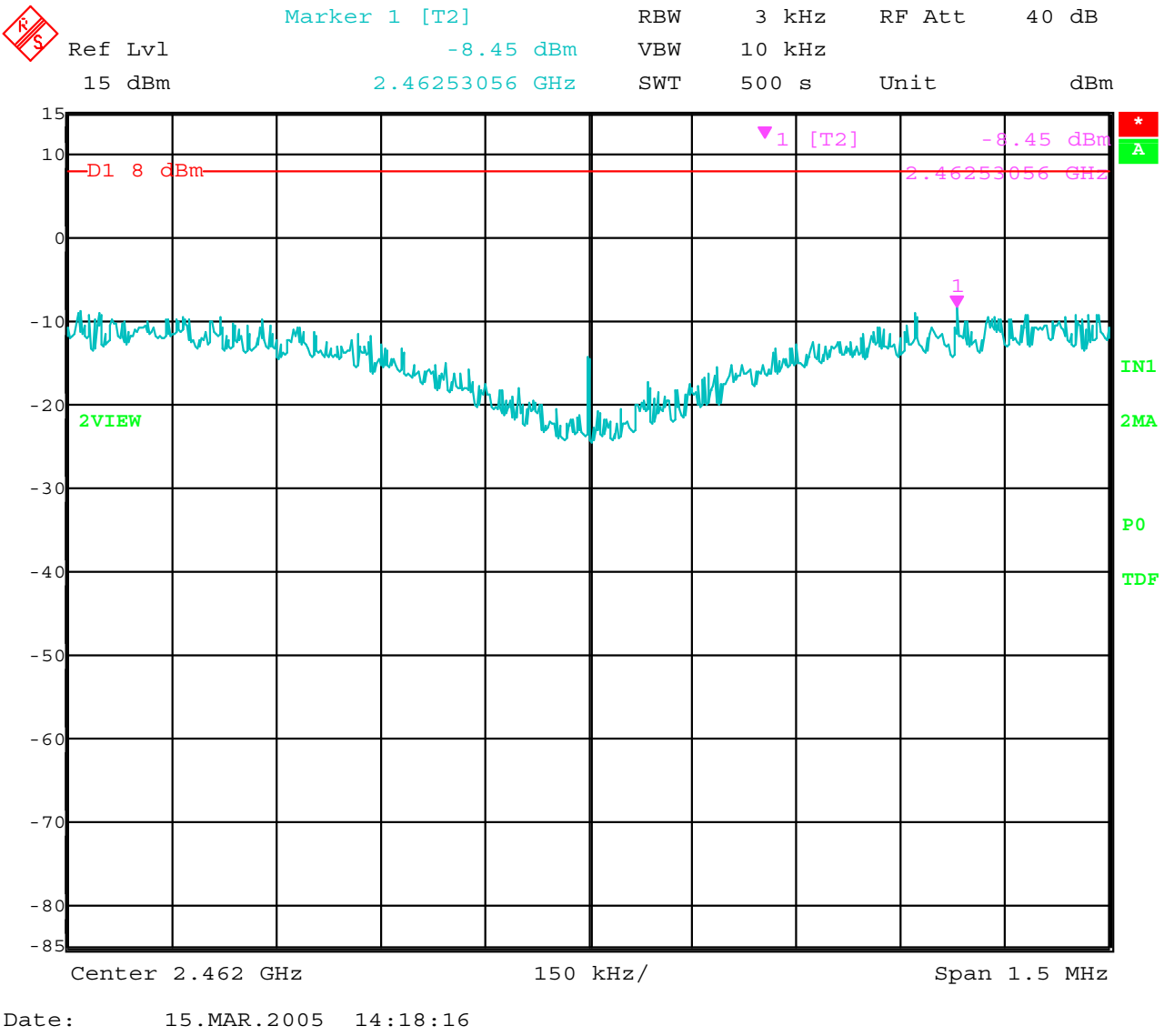
DATA SHEETS



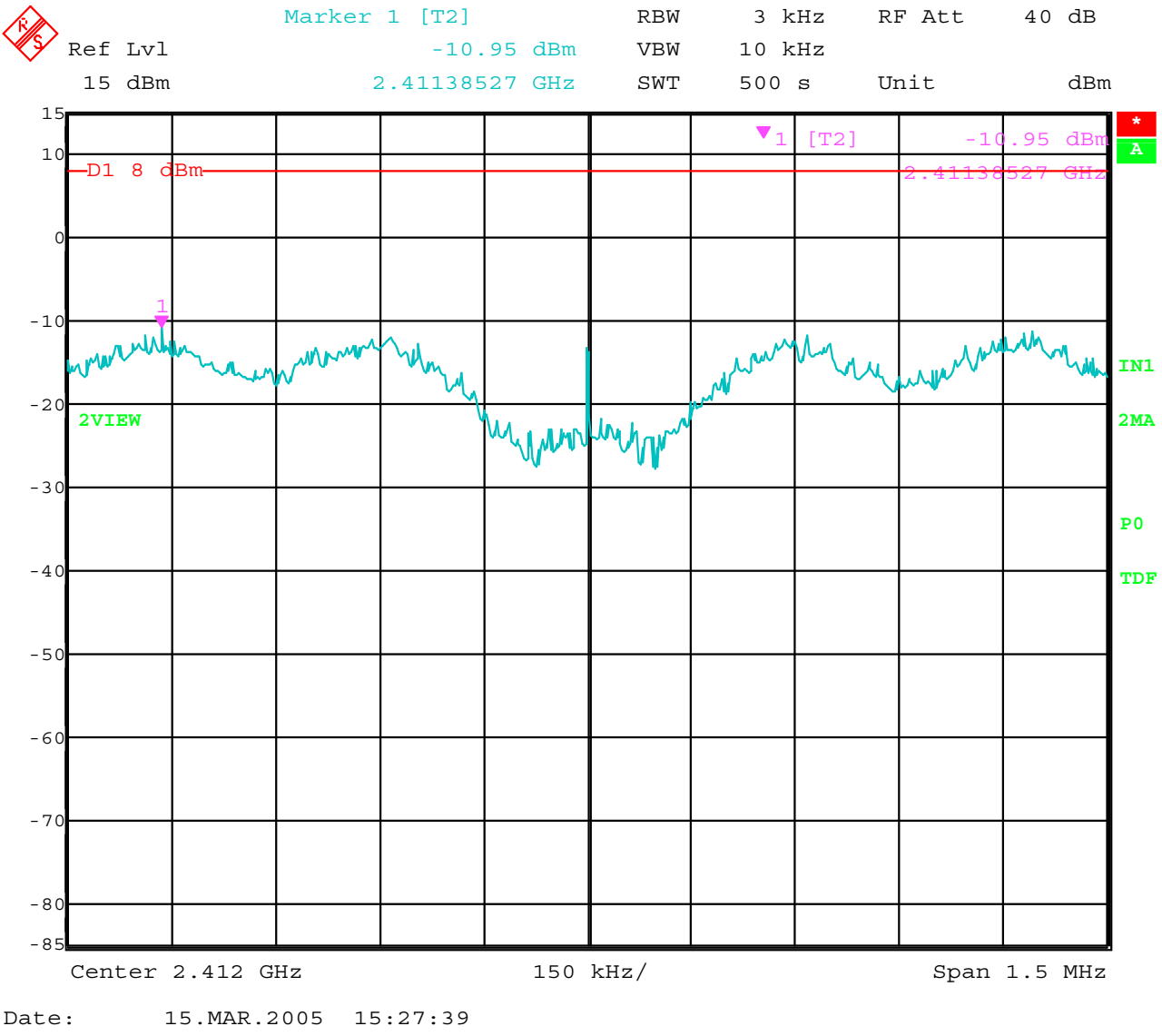
Peak Power Spectral Density – Channel 1 – 802.11 b Mode – Phycomp Antenna



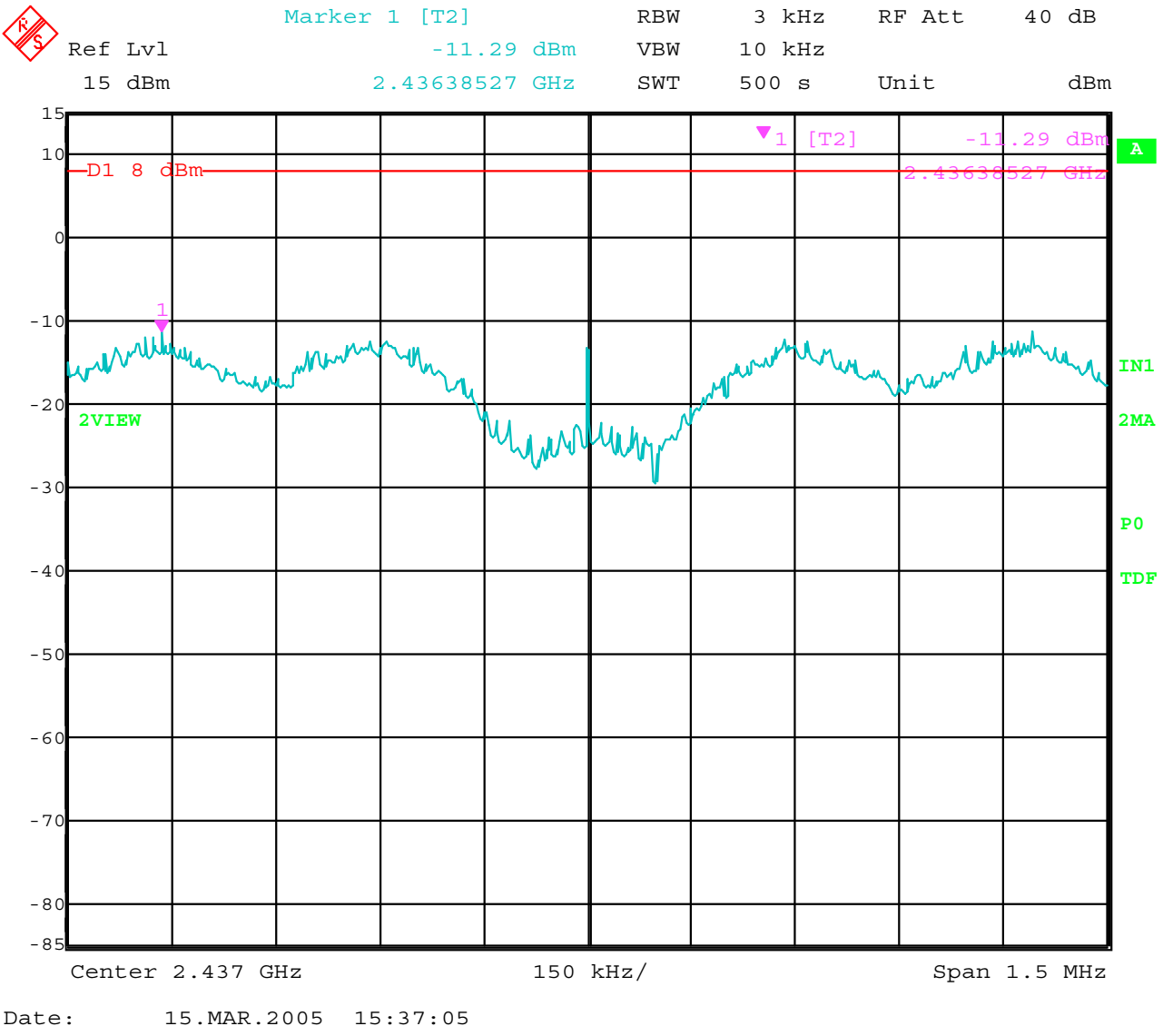
Peak Power Spectral Density – Channel 6 – 802.11 b Mode – Phycomp Antenna



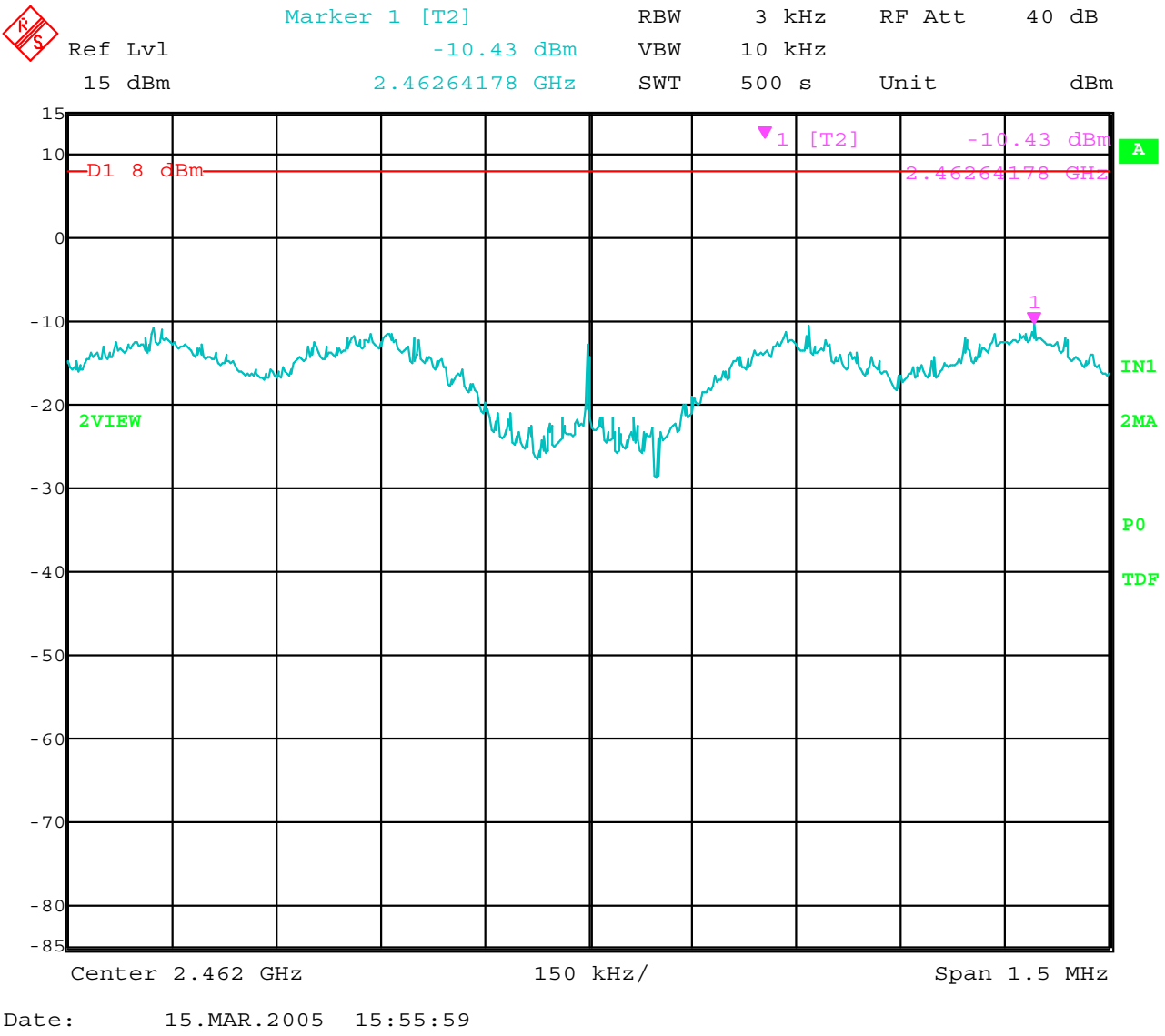
Peak Power Spectral Density – Channel 11 – 802.11 b Mode – Phycomp Antenna



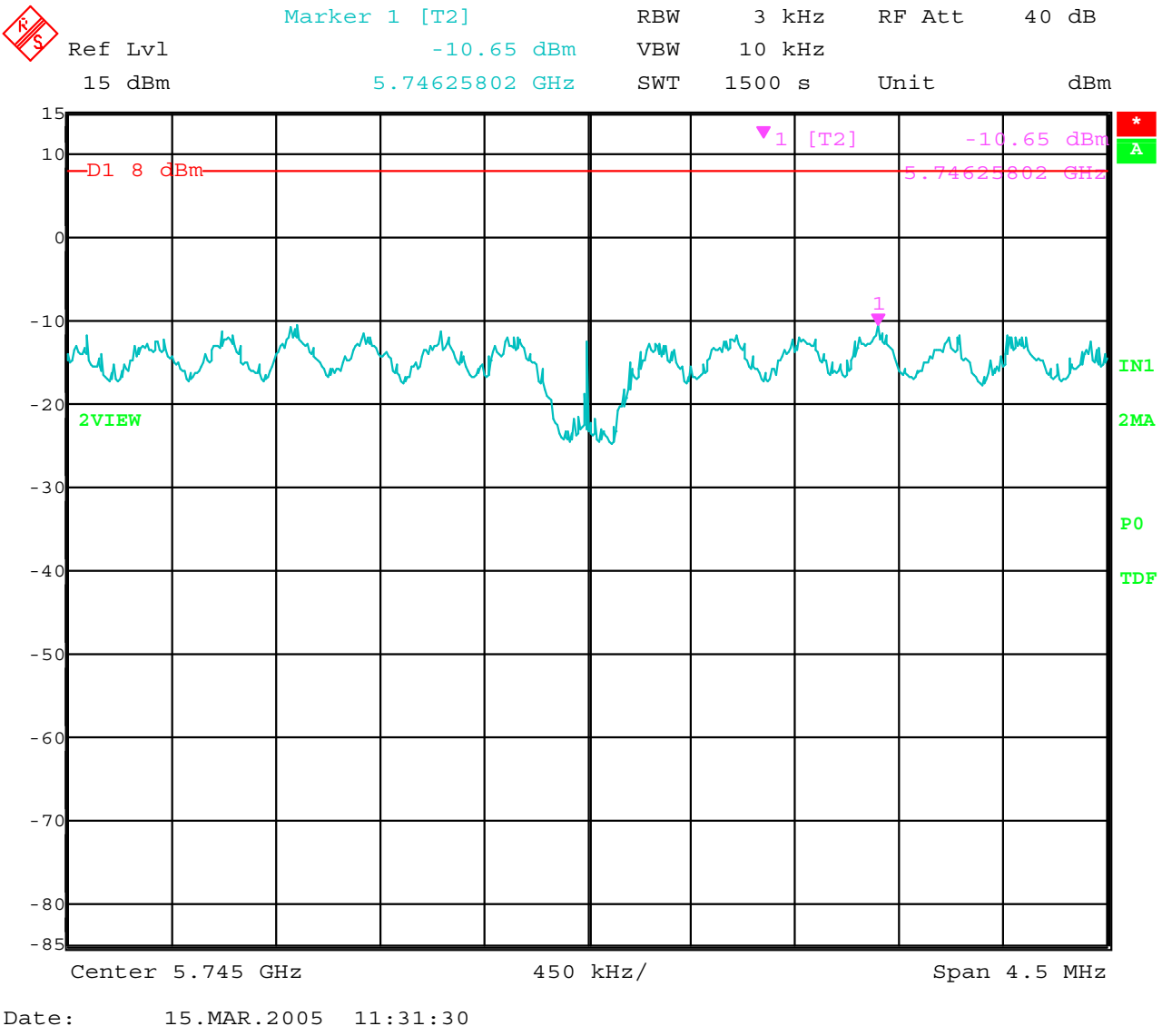
Peak Power Spectral Density – Channel 1 – 802.11 g Mode – Phycomp Antenna



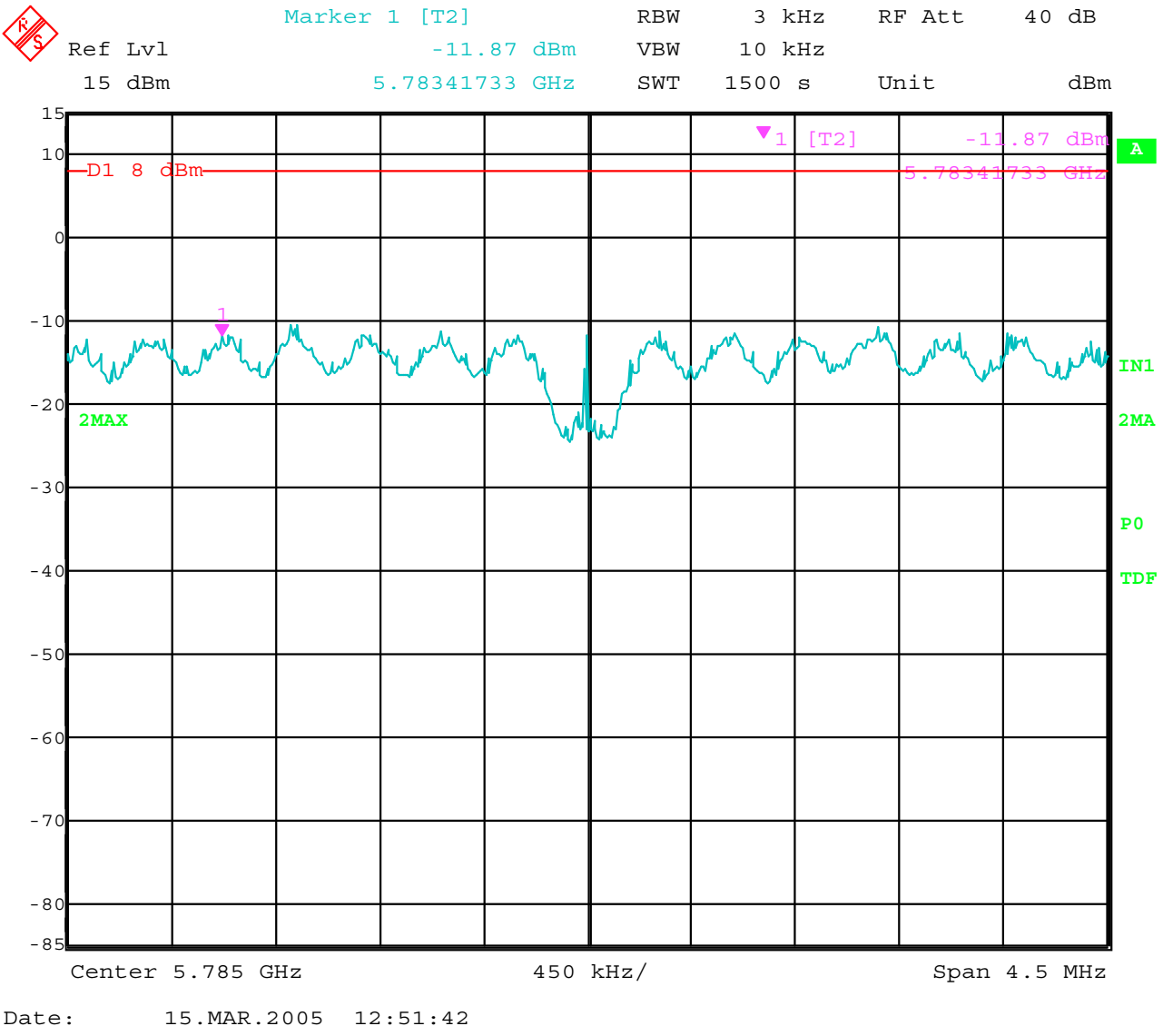
Peak Power Spectral Density – Channel 6 – 802.11 g Mode – Phycomp Antenna



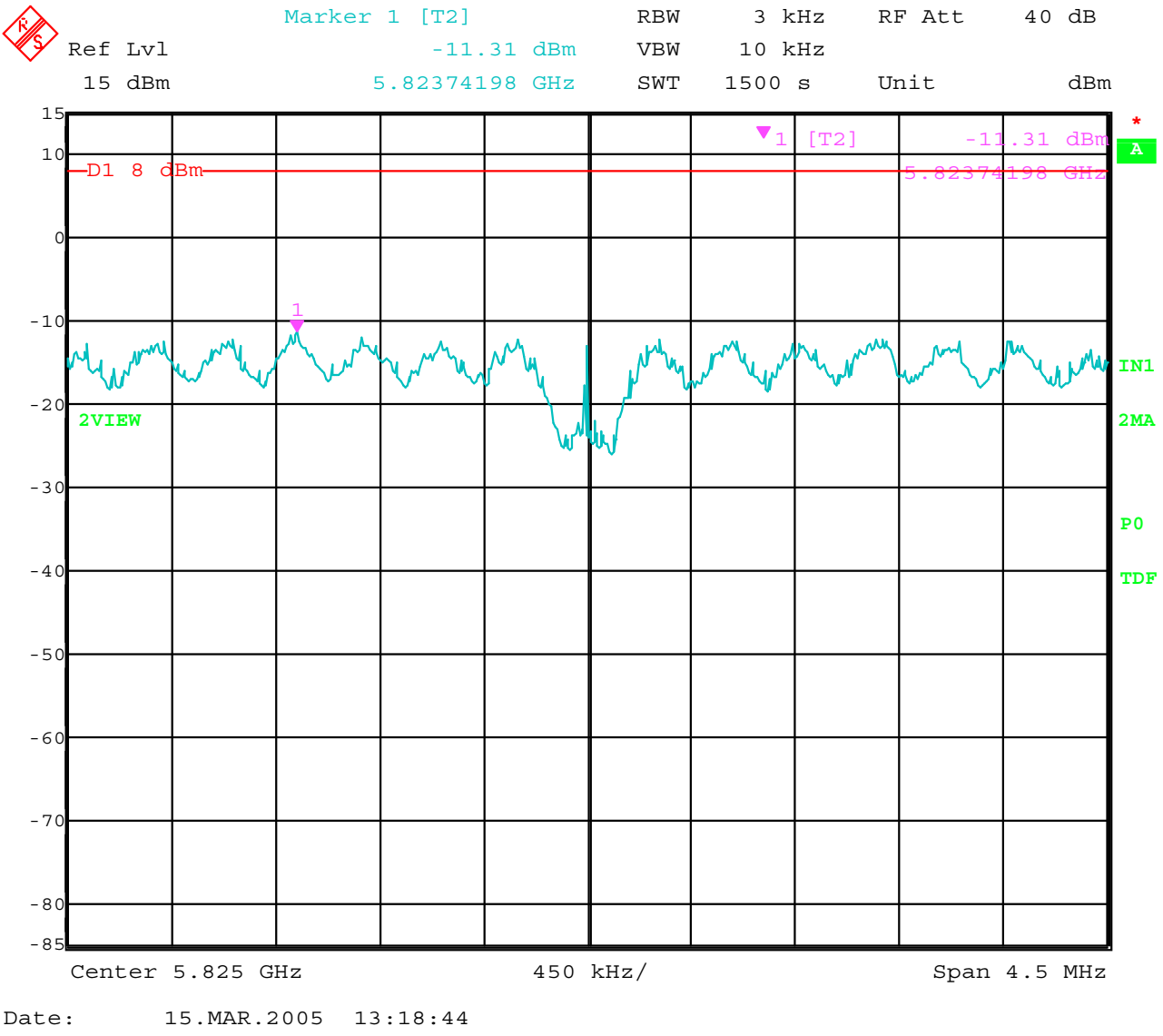
Peak Power Spectral Density – Channel 11 – 802.11 g Mode – Phycomp Antenna



Peak Power Spectral Density – Channel 149 – 802.11 a Mode – Phycomp Antenna



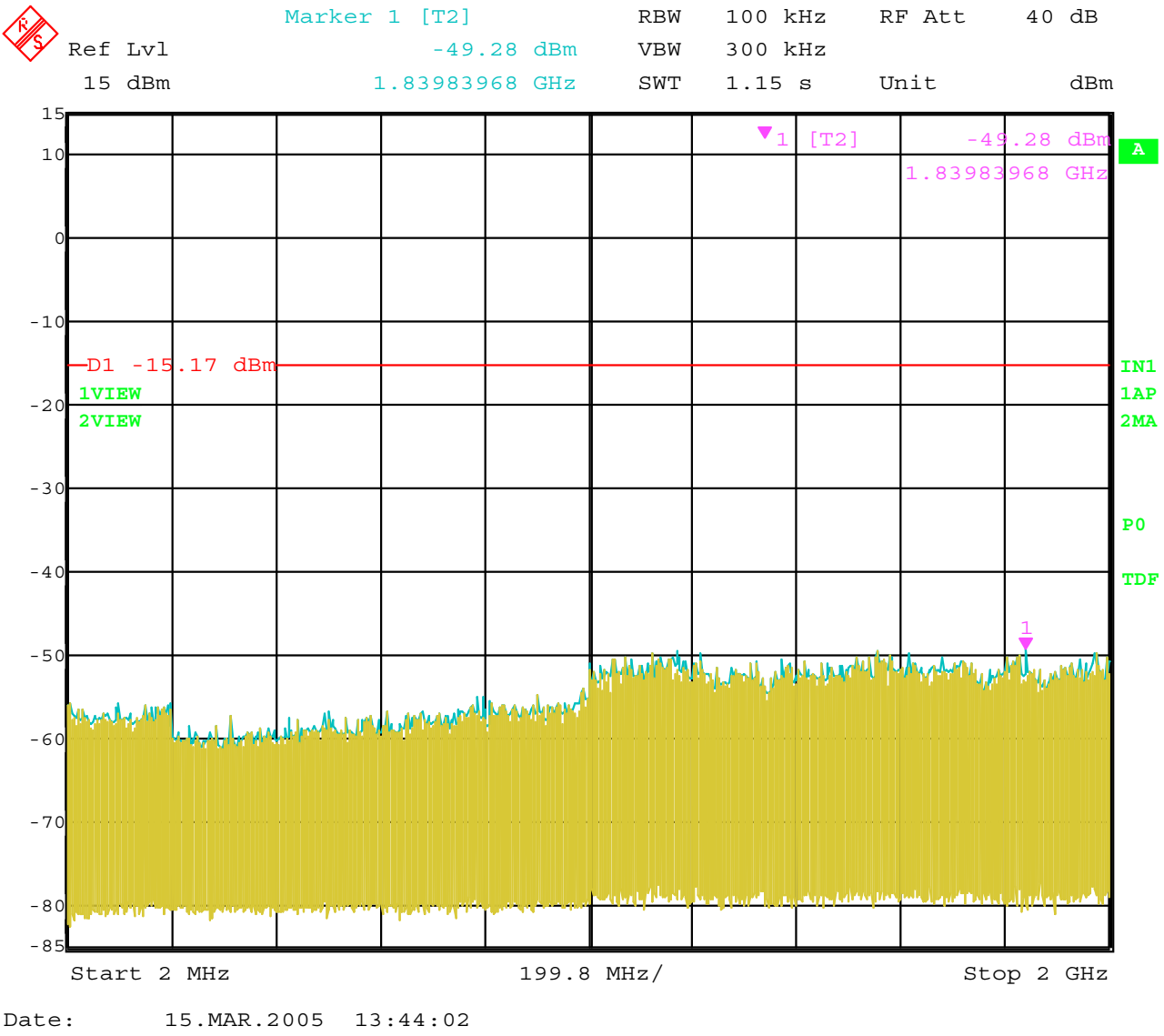
Peak Power Spectral Density – Channel 157 – 802.11 a Mode – Phycomp Antenna



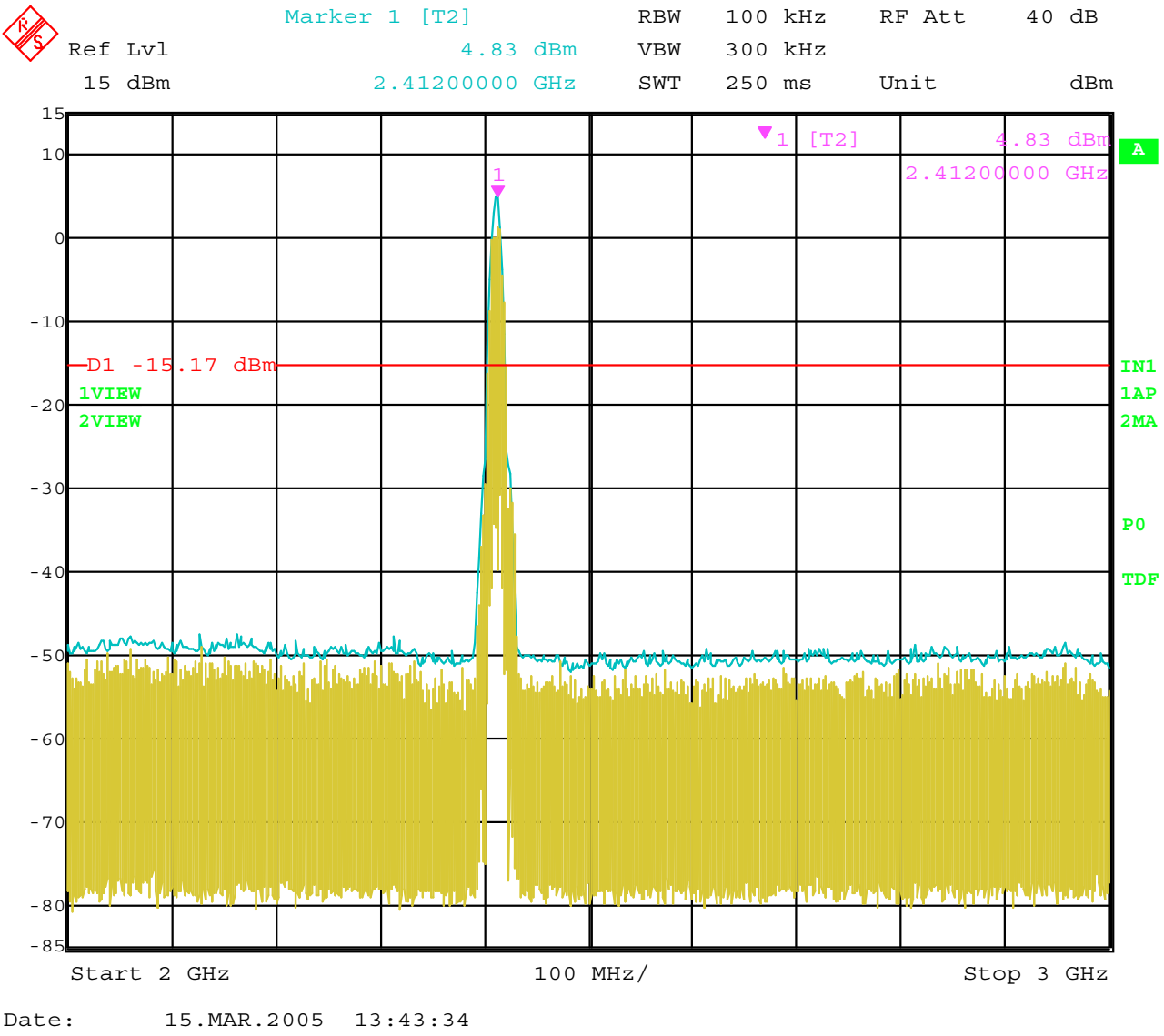
Peak Power Spectral Density – Channel 165 – 802.11 a Mode – Phycomp Antenna

RF ANTENNA CONDUCTED

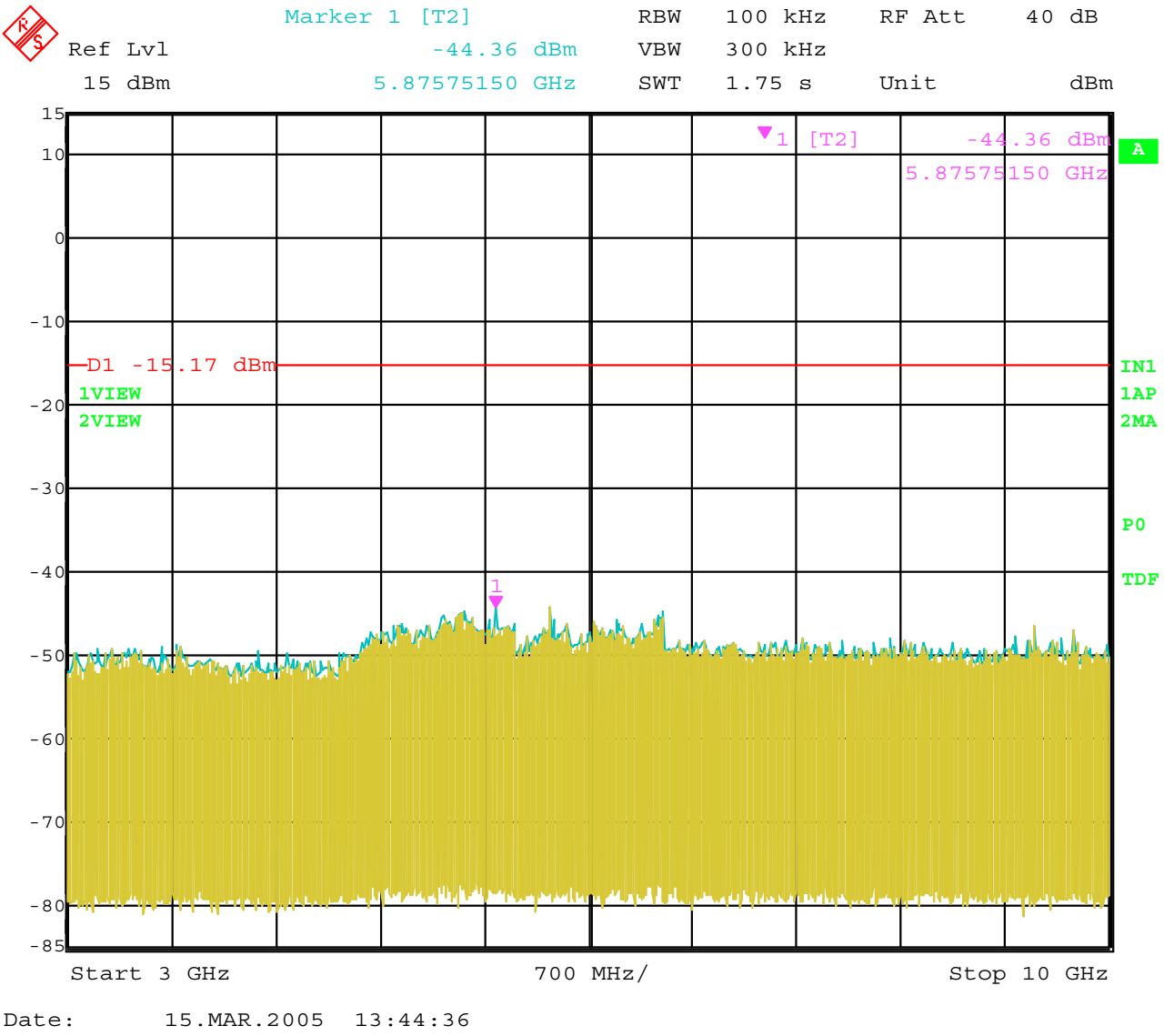
DATA SHEETS



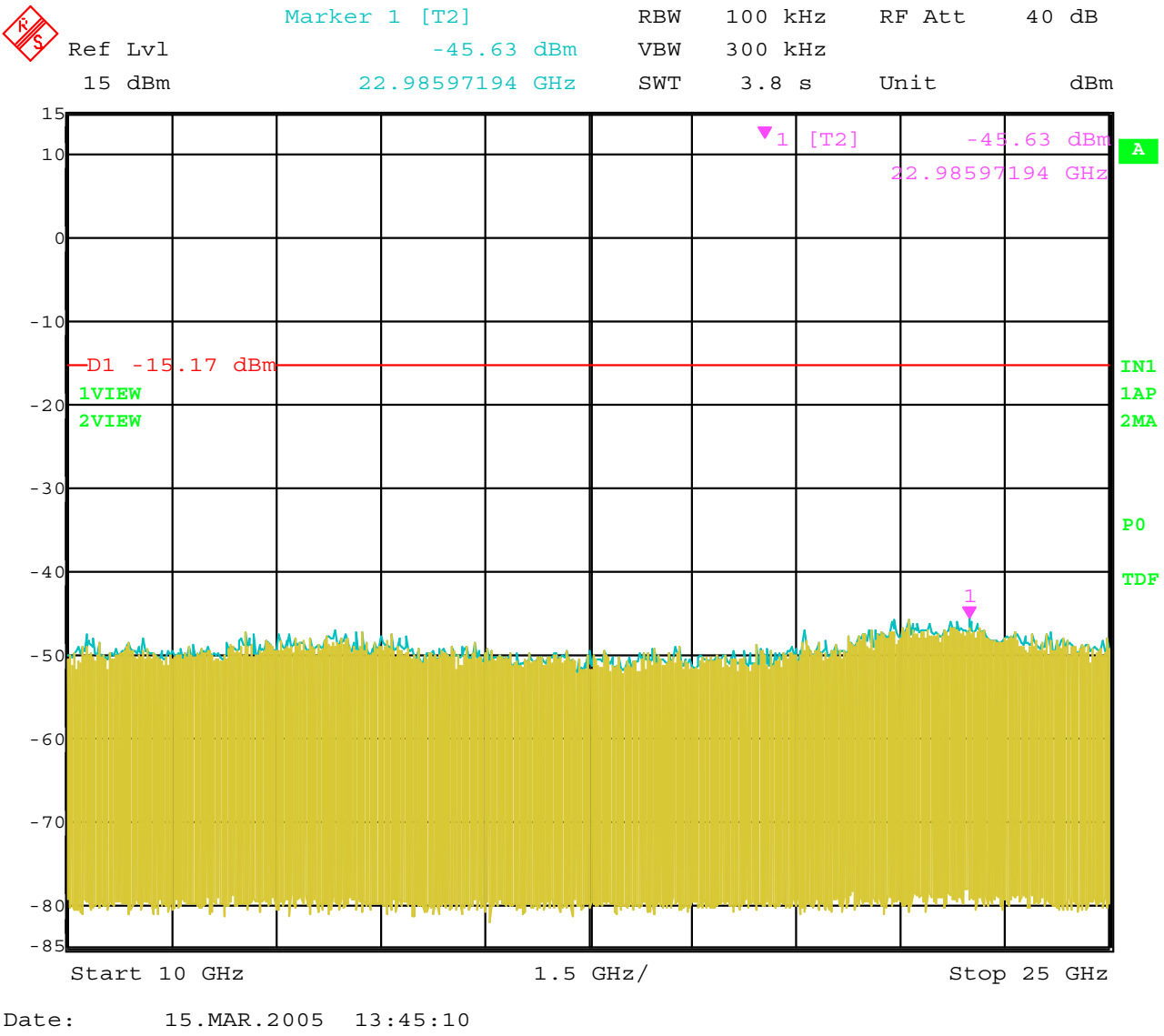
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Phycomp Antenna – 2 MHz to 2 GHz



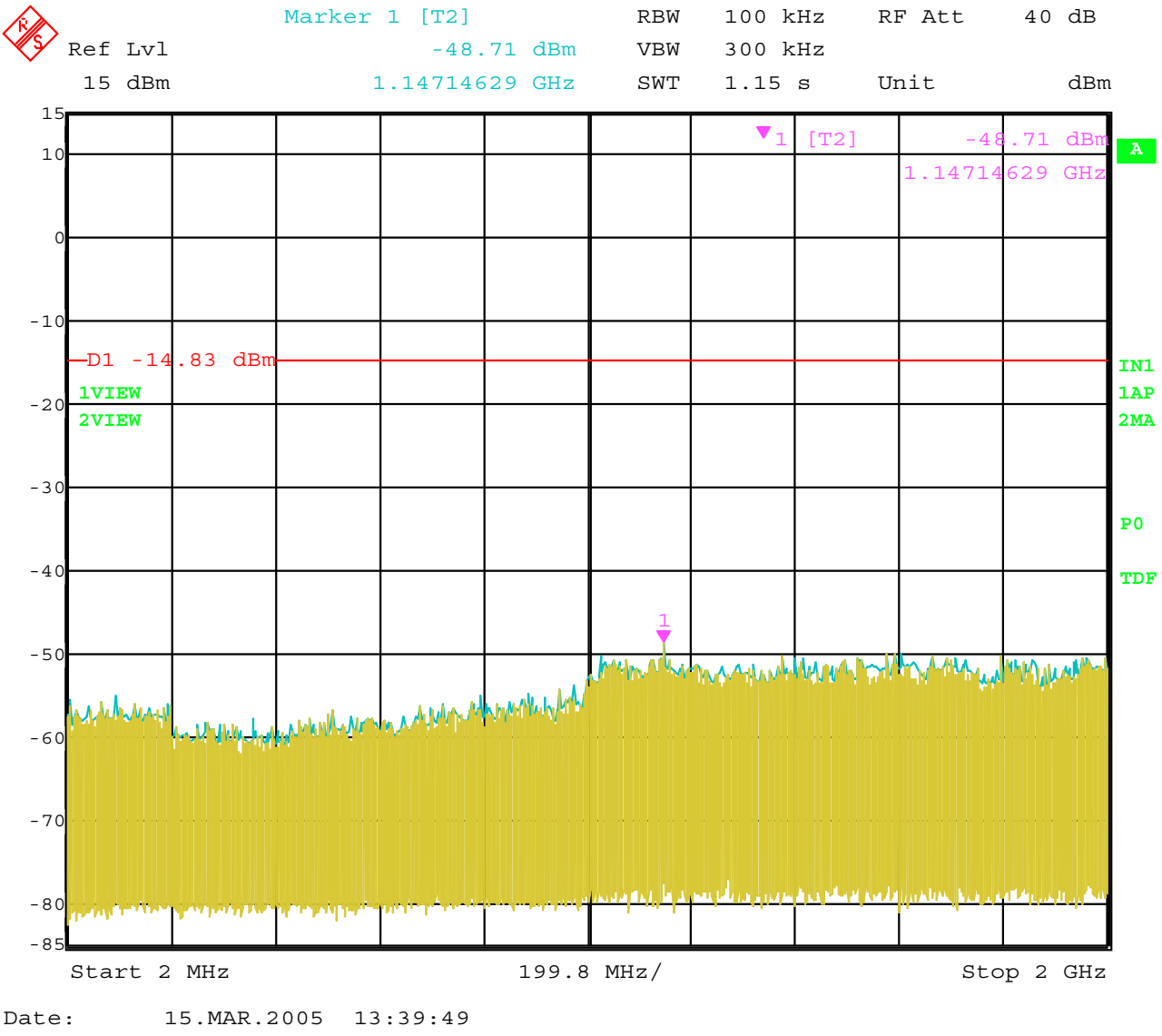
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Phycomp Antenna – 2 GHz to 3 GHz



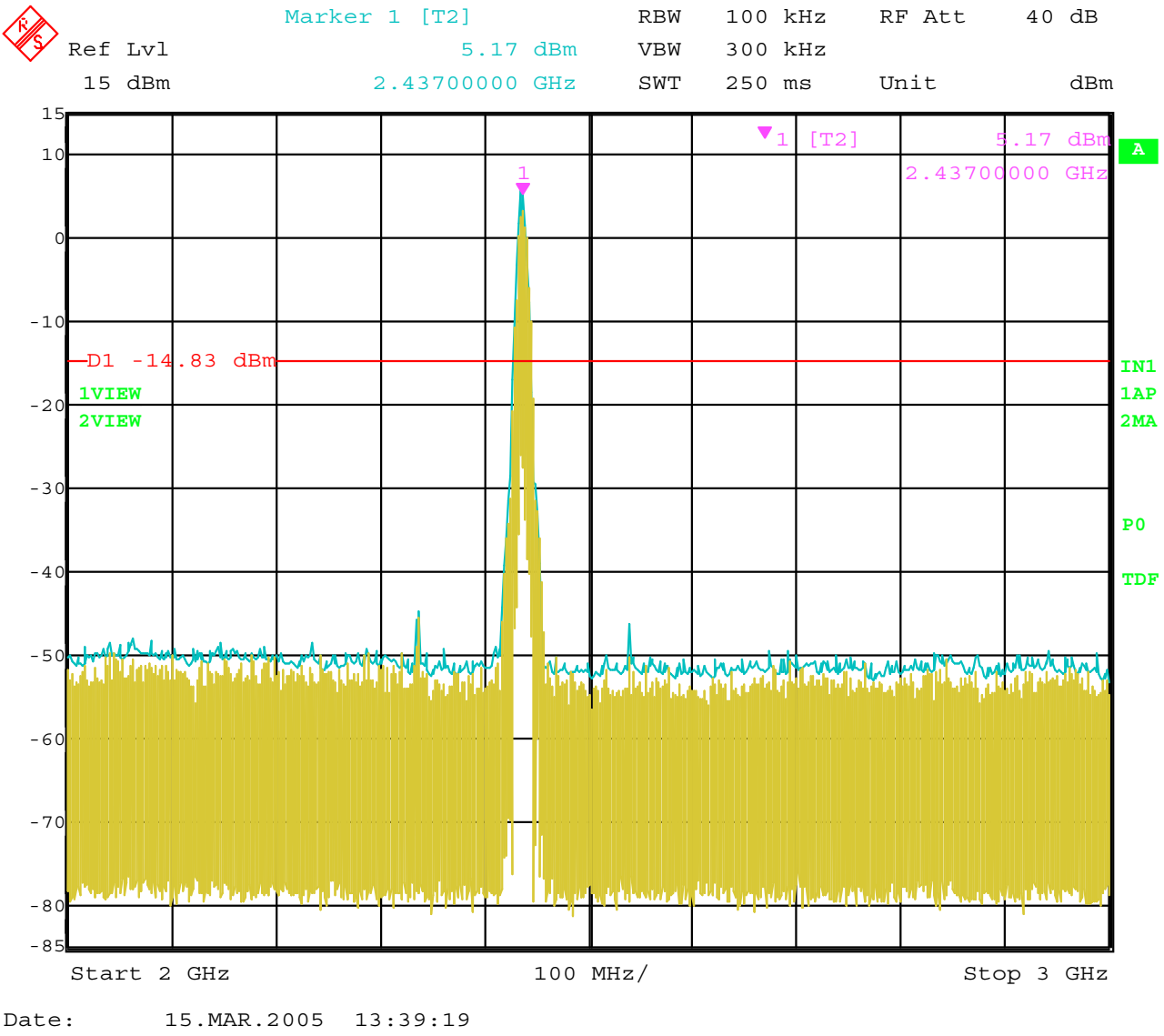
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Phycomp Antenna – 3 GHz to 10 GHz



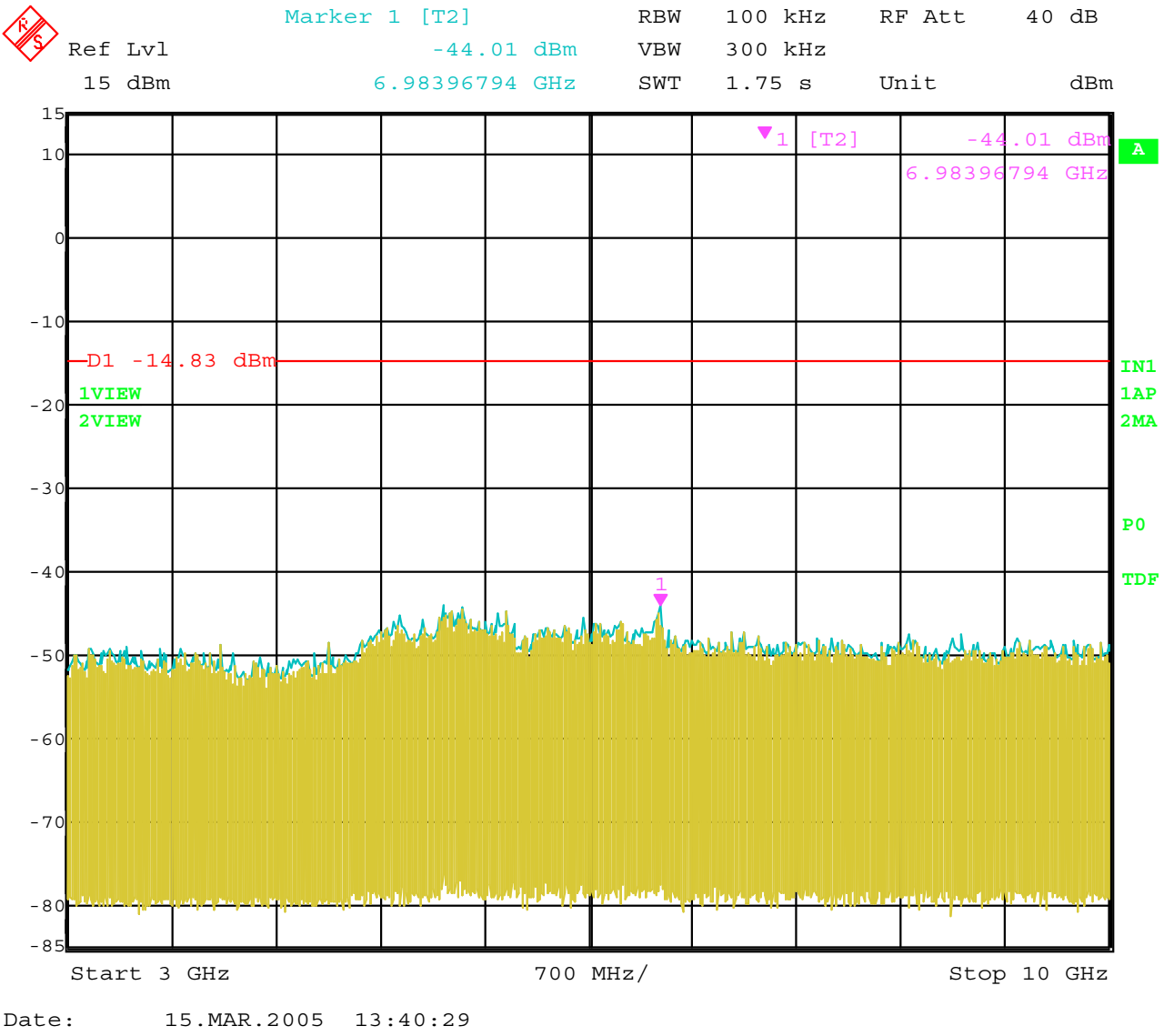
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Phycomp Antenna – 10 GHz to 25 GHz



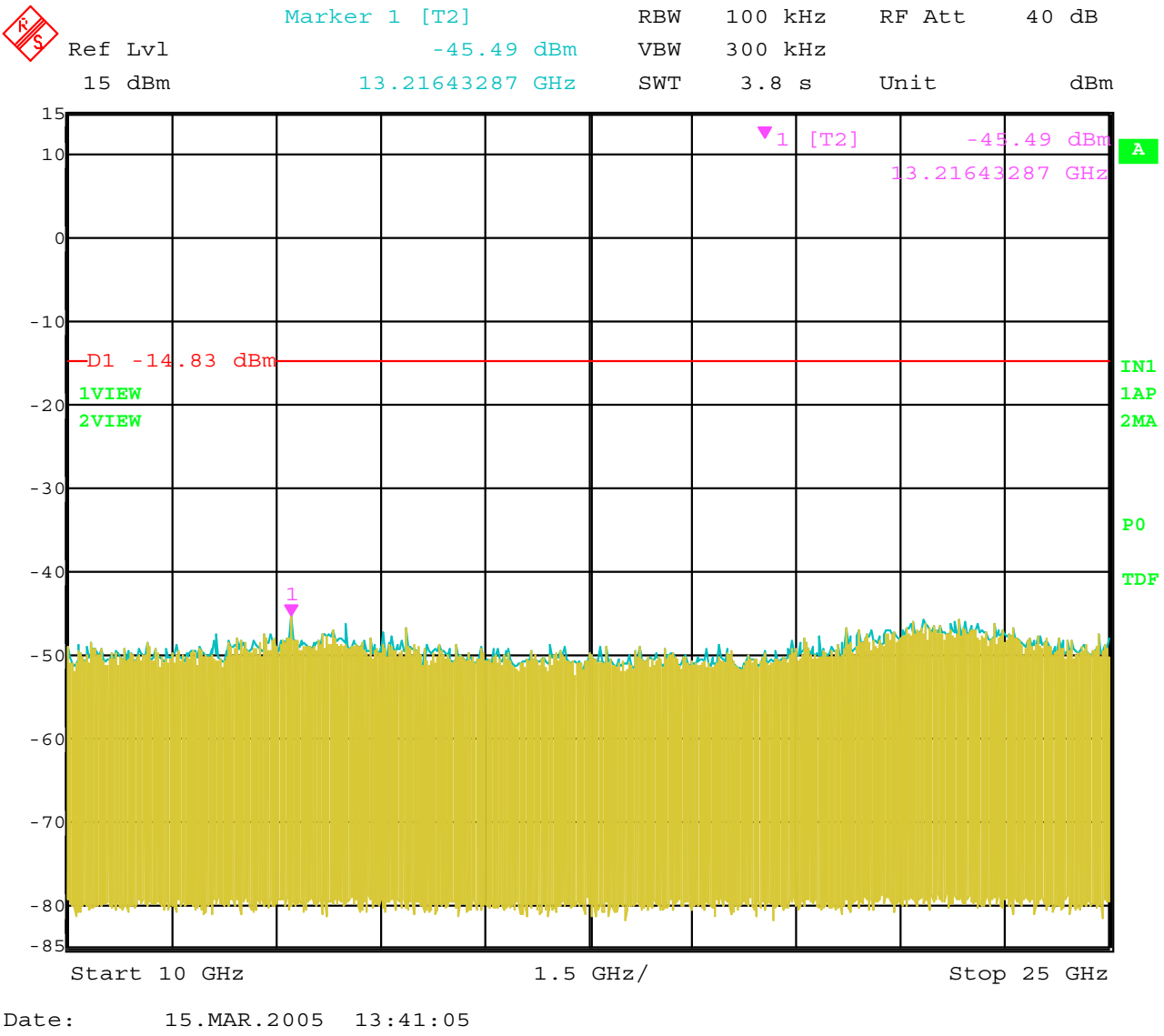
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Phycomp Antenna – 2 MHz to 2 GHz



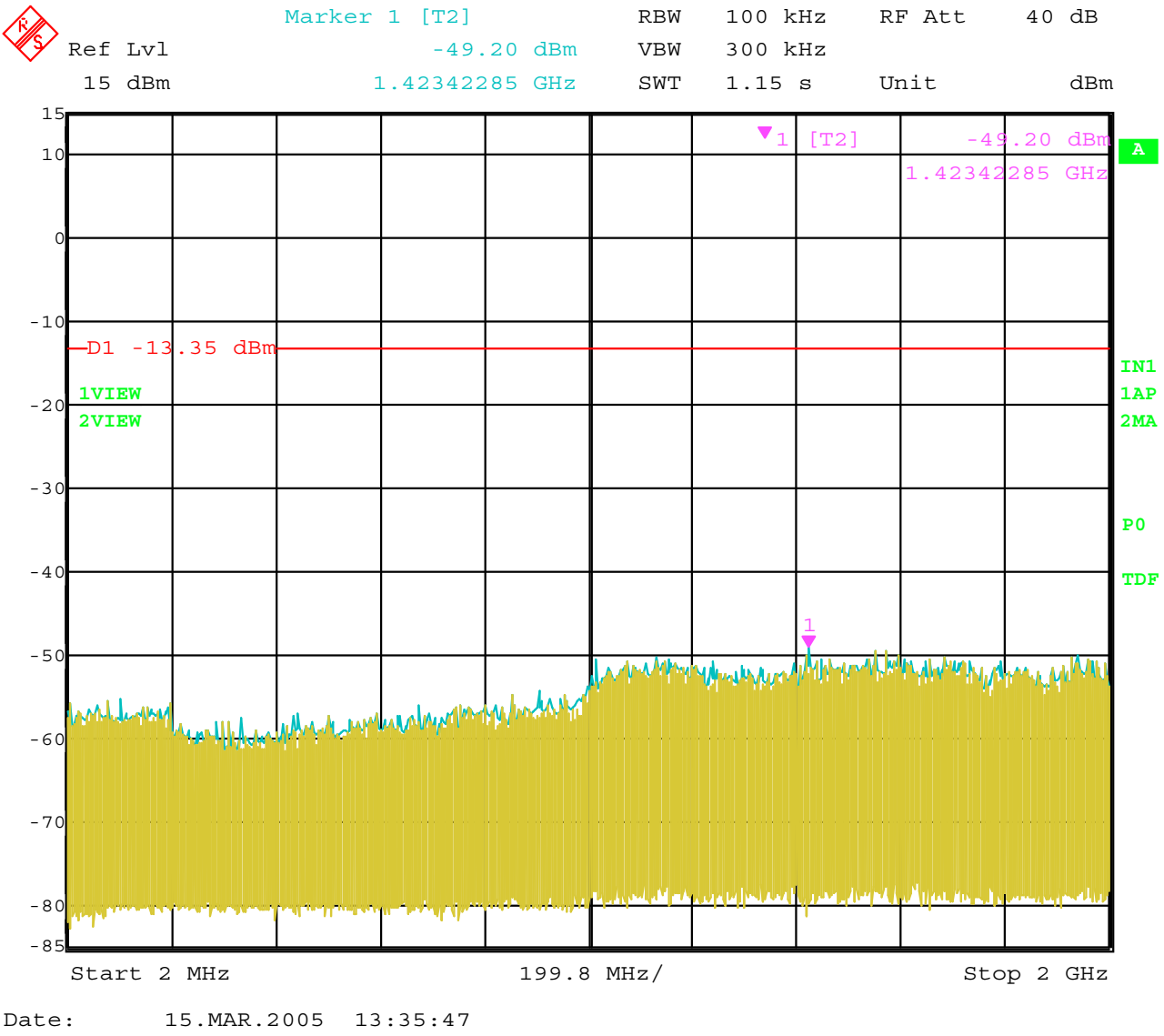
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Phycomp Antenna – 2 GHz to 3 GHz



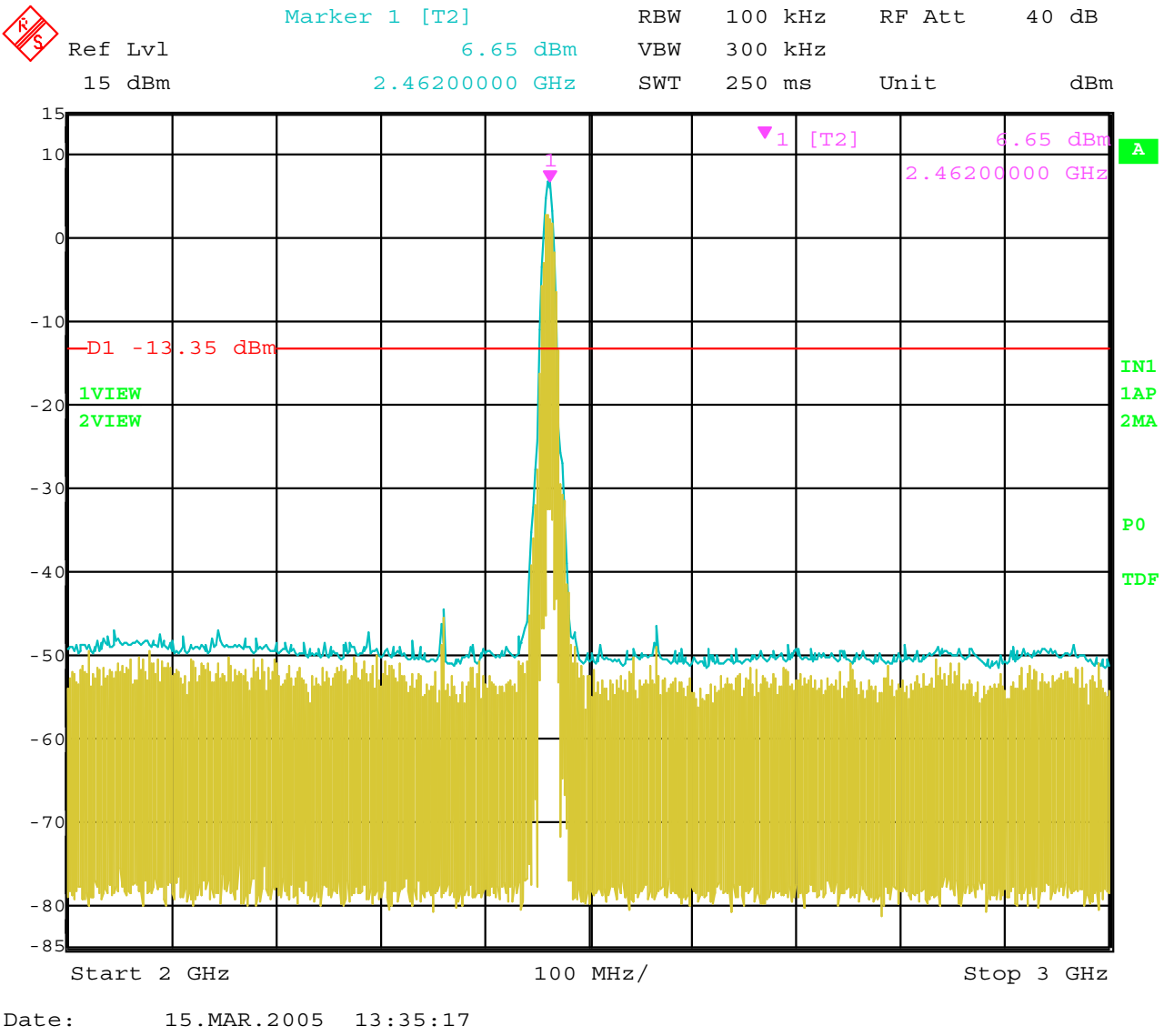
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Phycomp Antenna – 3 GHz to 10 GHz



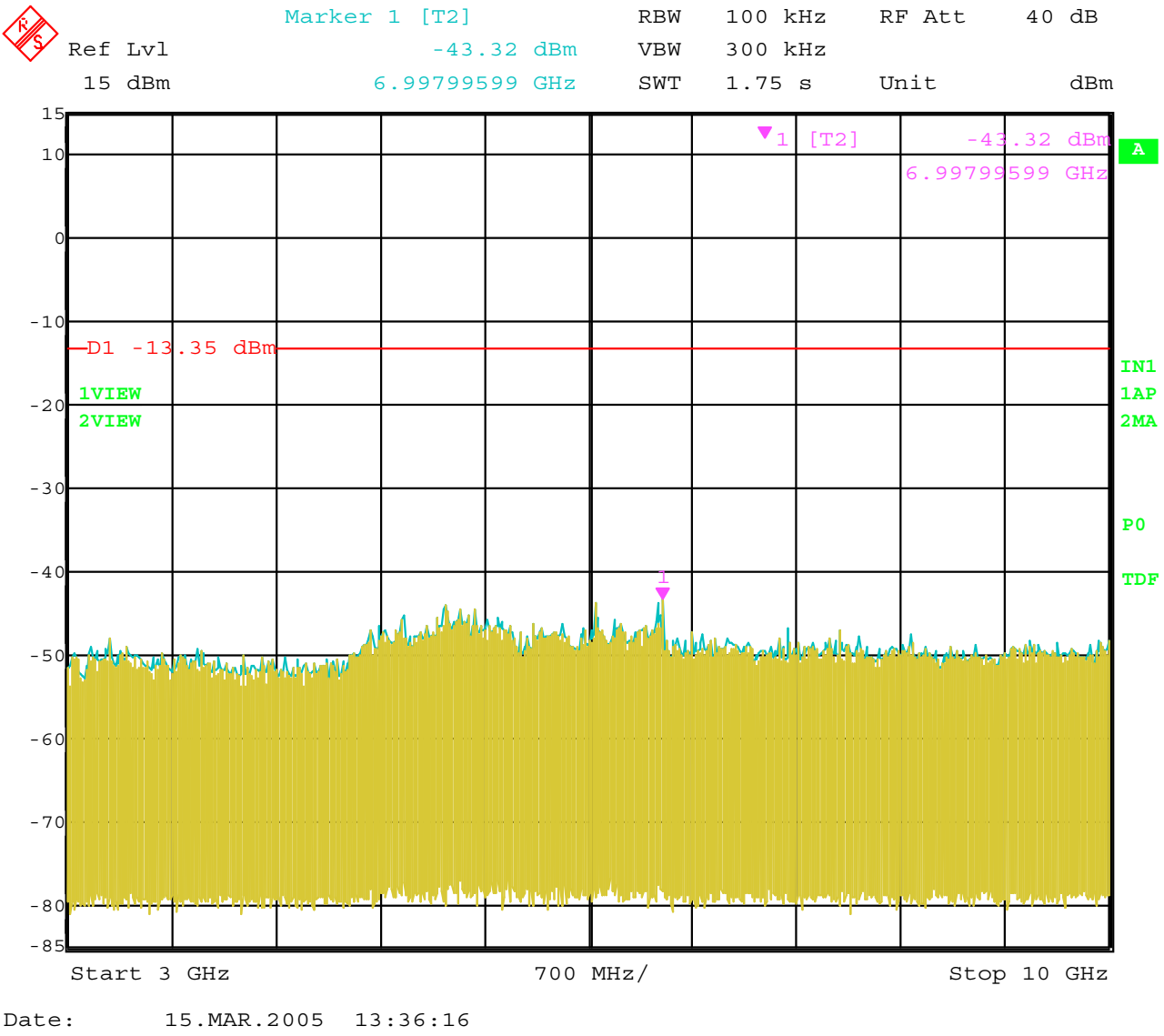
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Phycomp Antenna – 10 GHz to 25 GHz



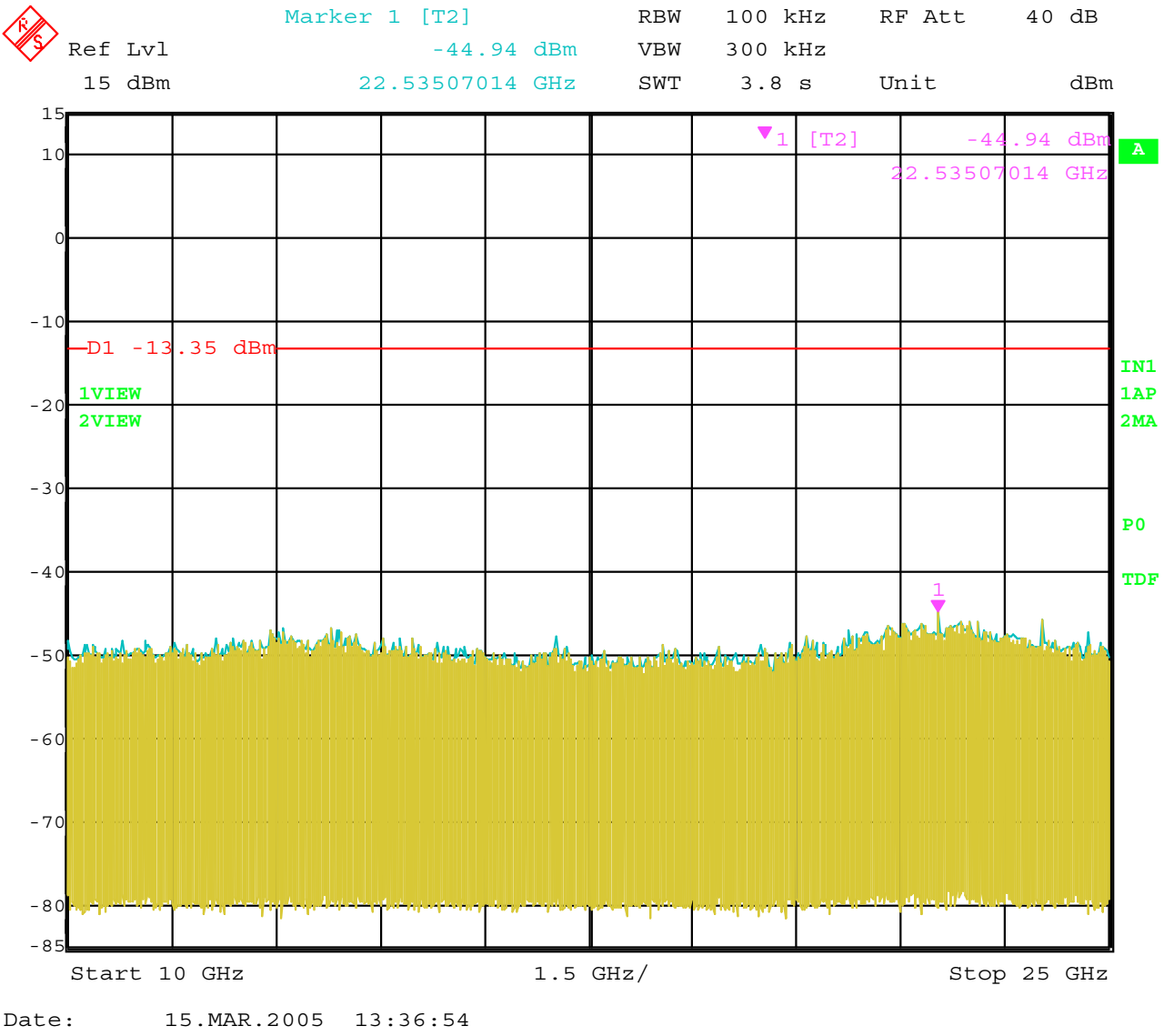
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Phycomp Antenna – 2 MHz to 2 GHz



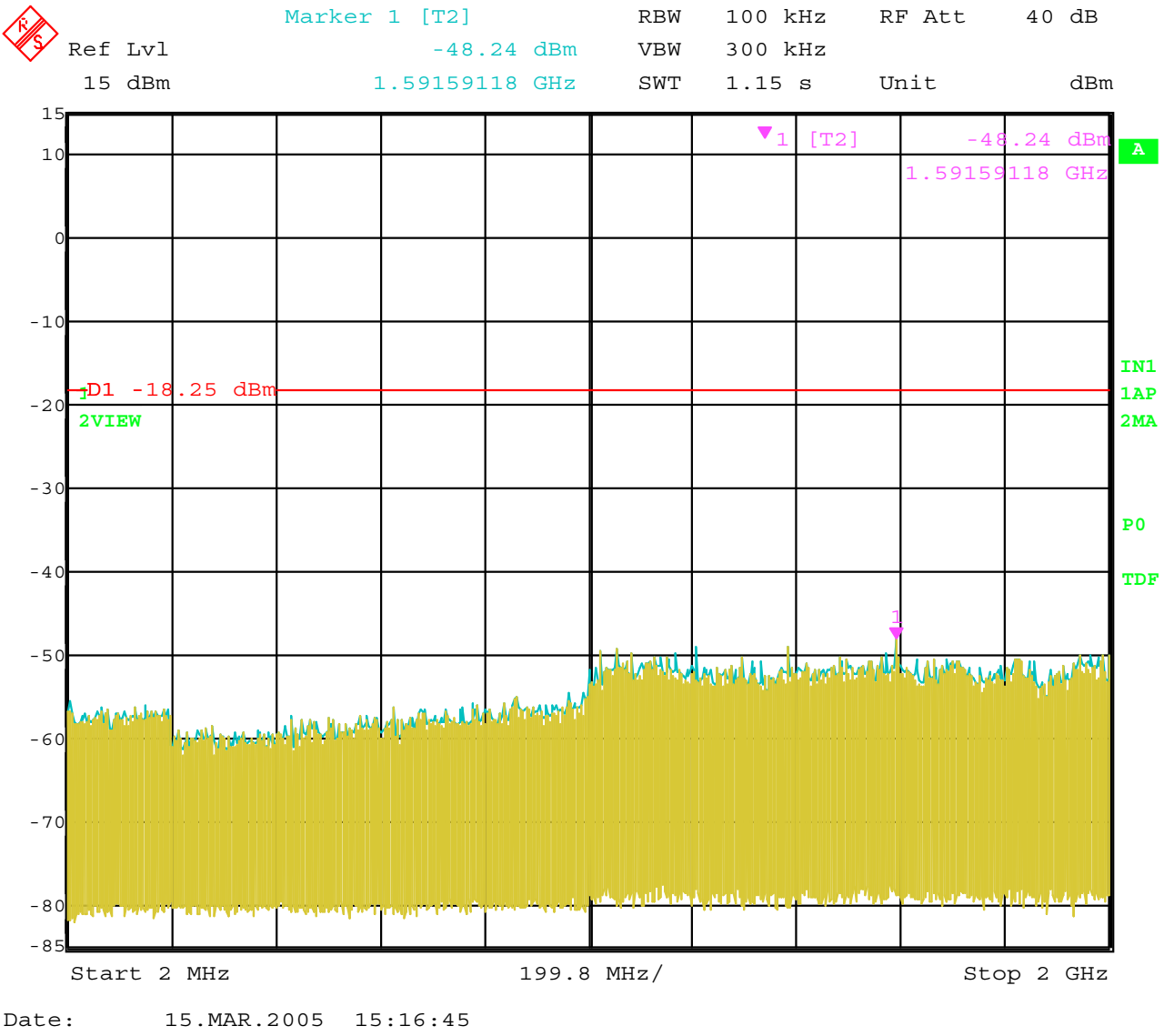
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Phycomp Antenna – 2 GHz to 3 GHz



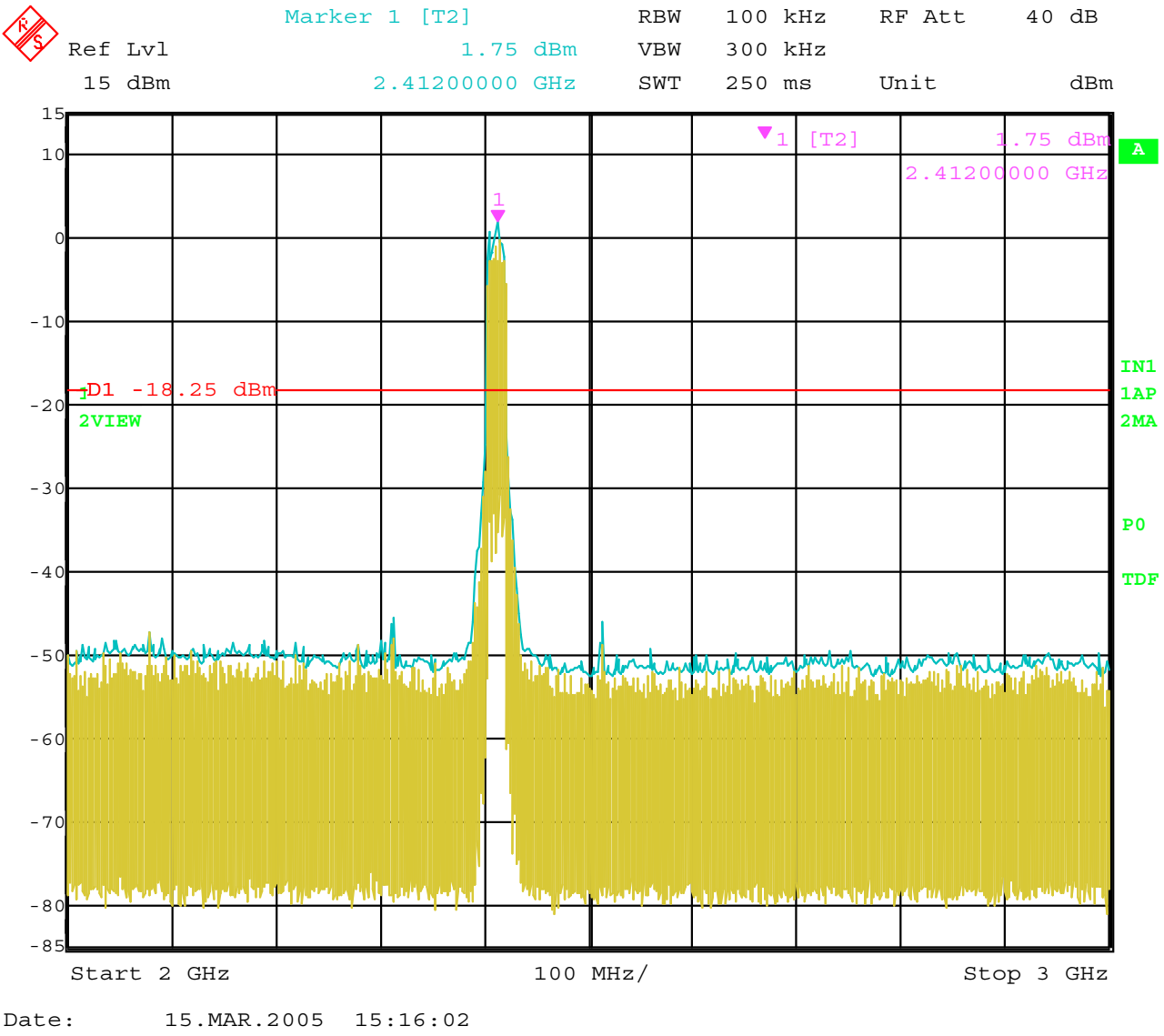
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Phycomp Antenna – 3 GHz to 10 GHz



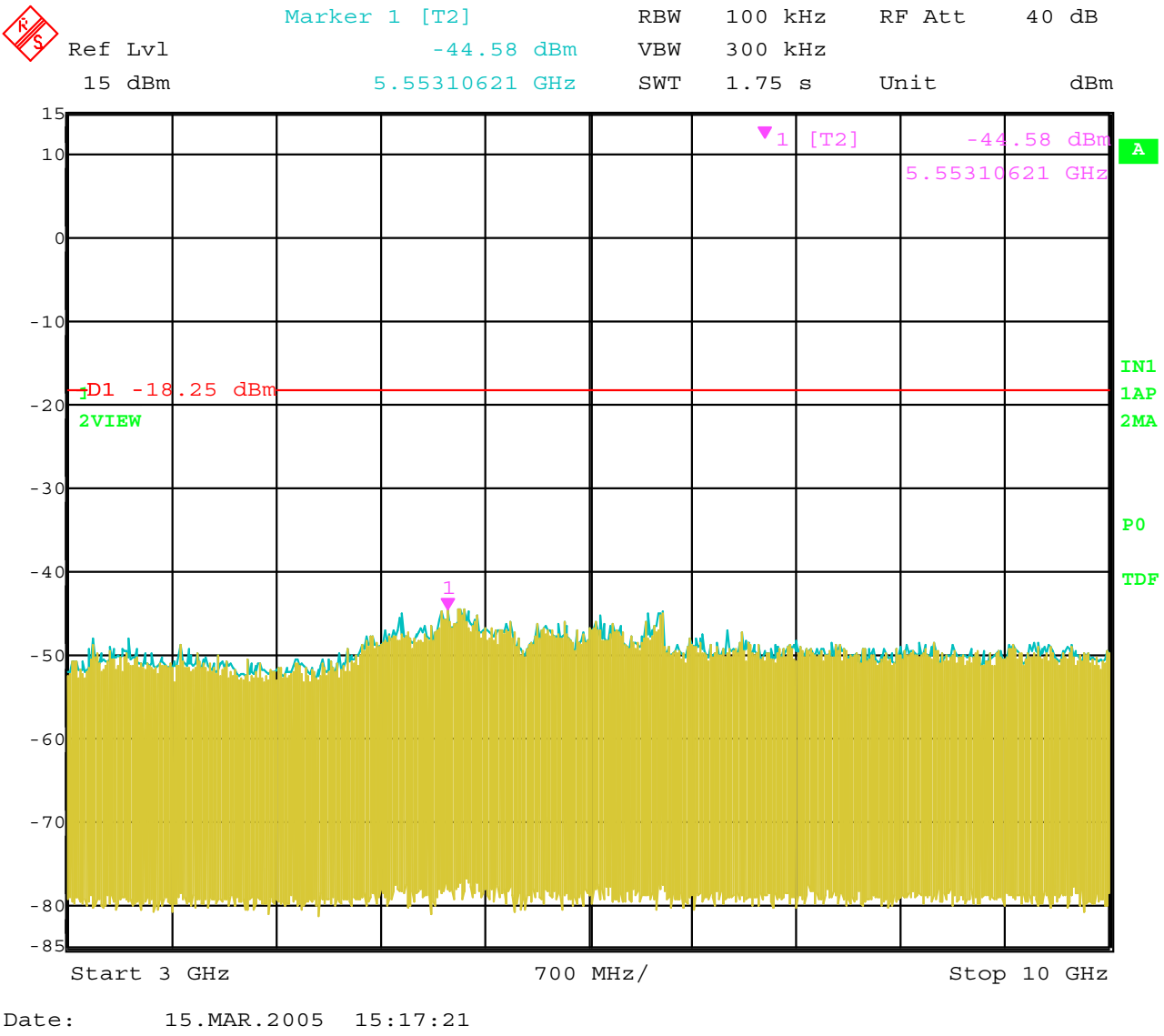
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Phycomp Antenna – 10 GHz to 25 GHz



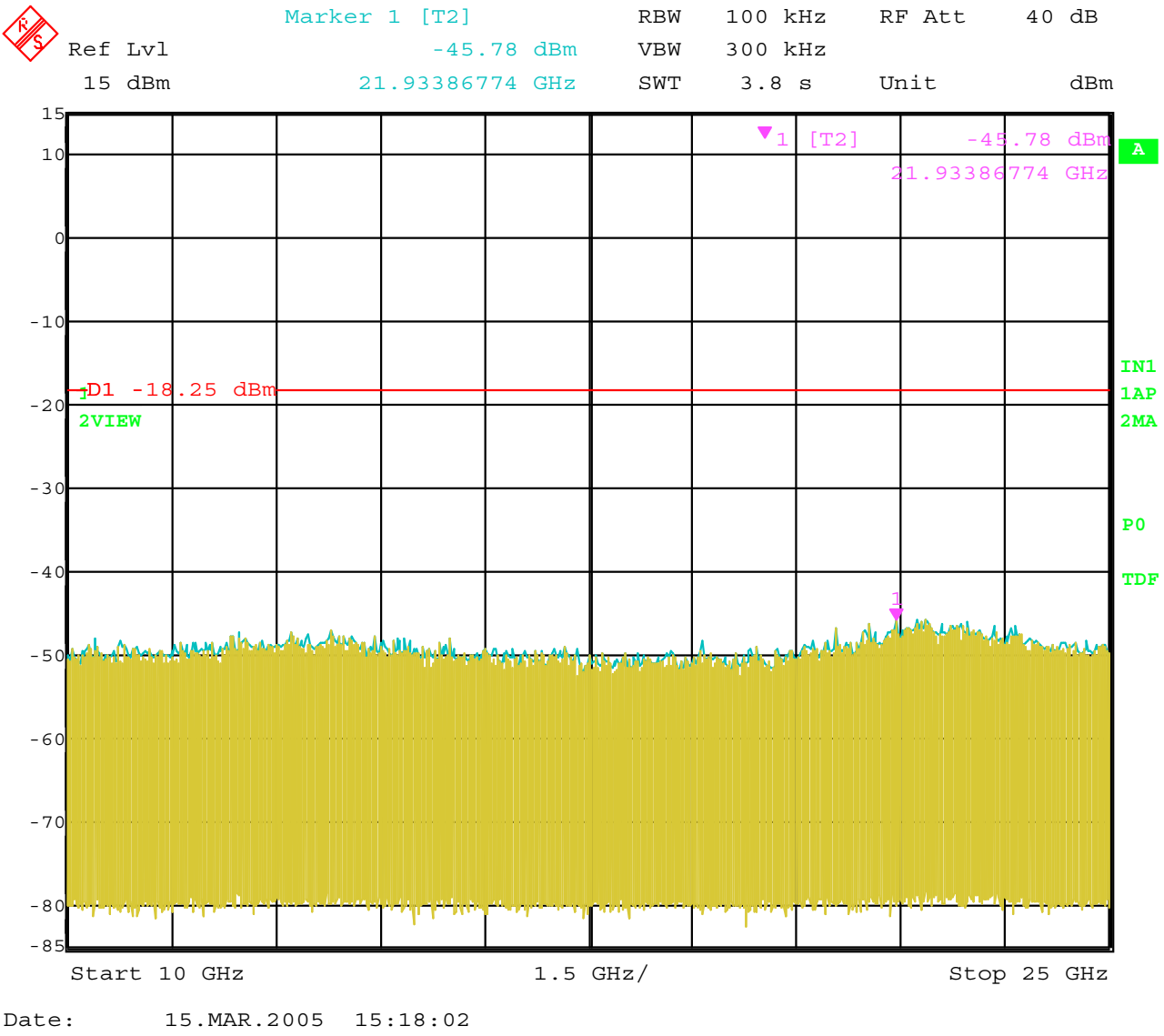
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Phycomp Antenna – 2 MHz to 2 GHz



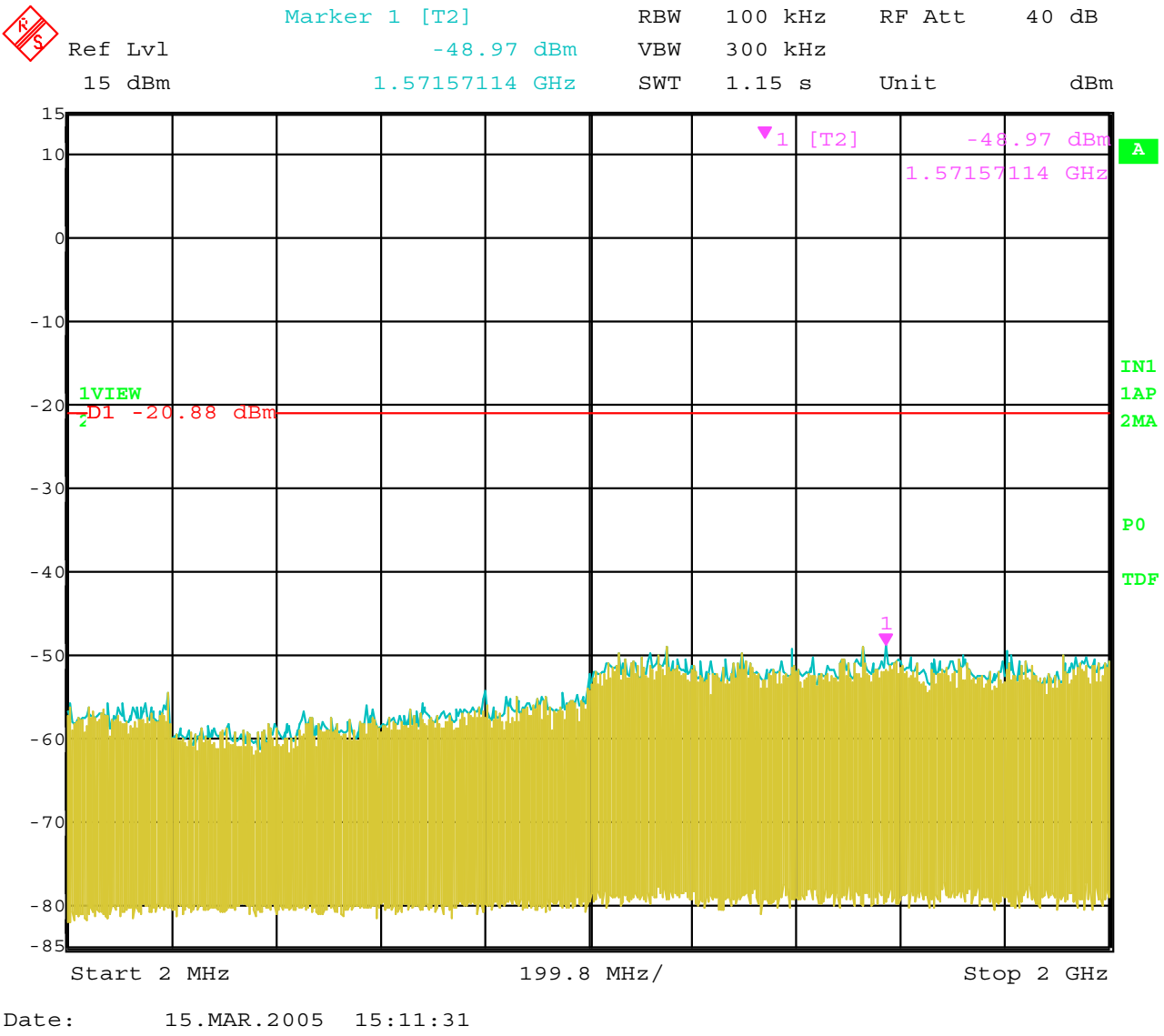
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Phycomp Antenna – 2 GHz to 3 GHz



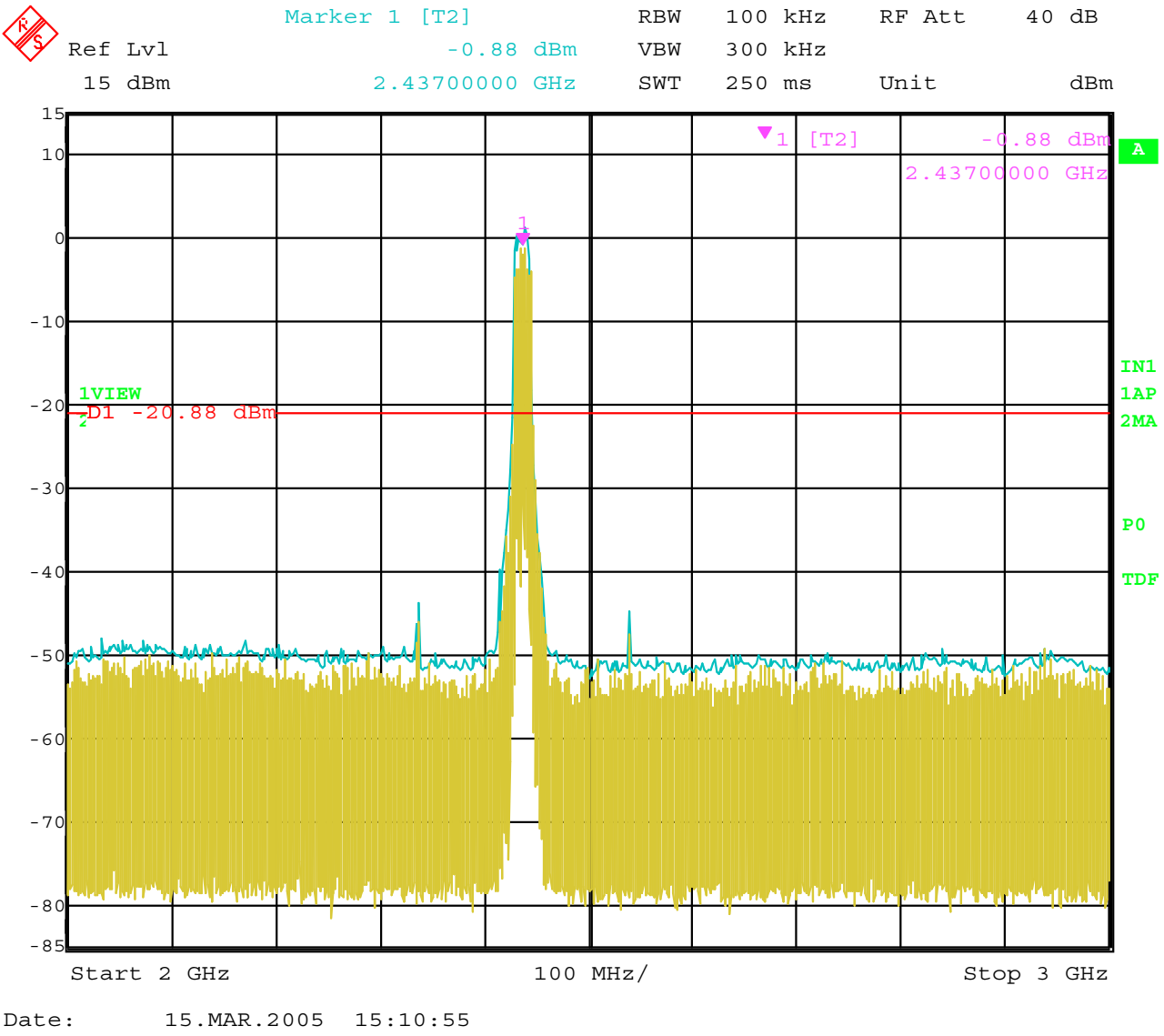
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Phycomp Antenna – 3 GHz to 10 GHz



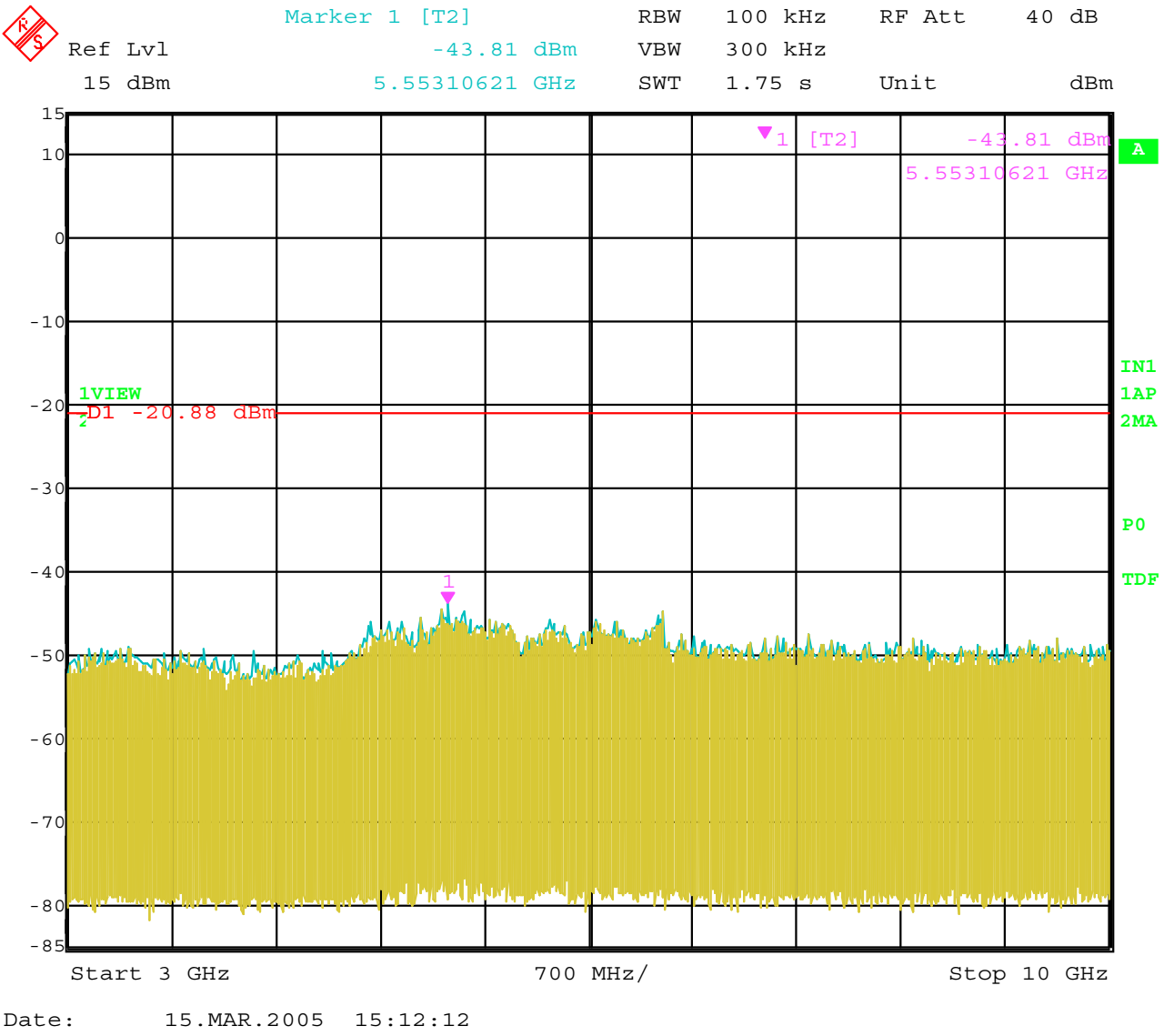
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Phycomp Antenna – 10 GHz to 25 GHz



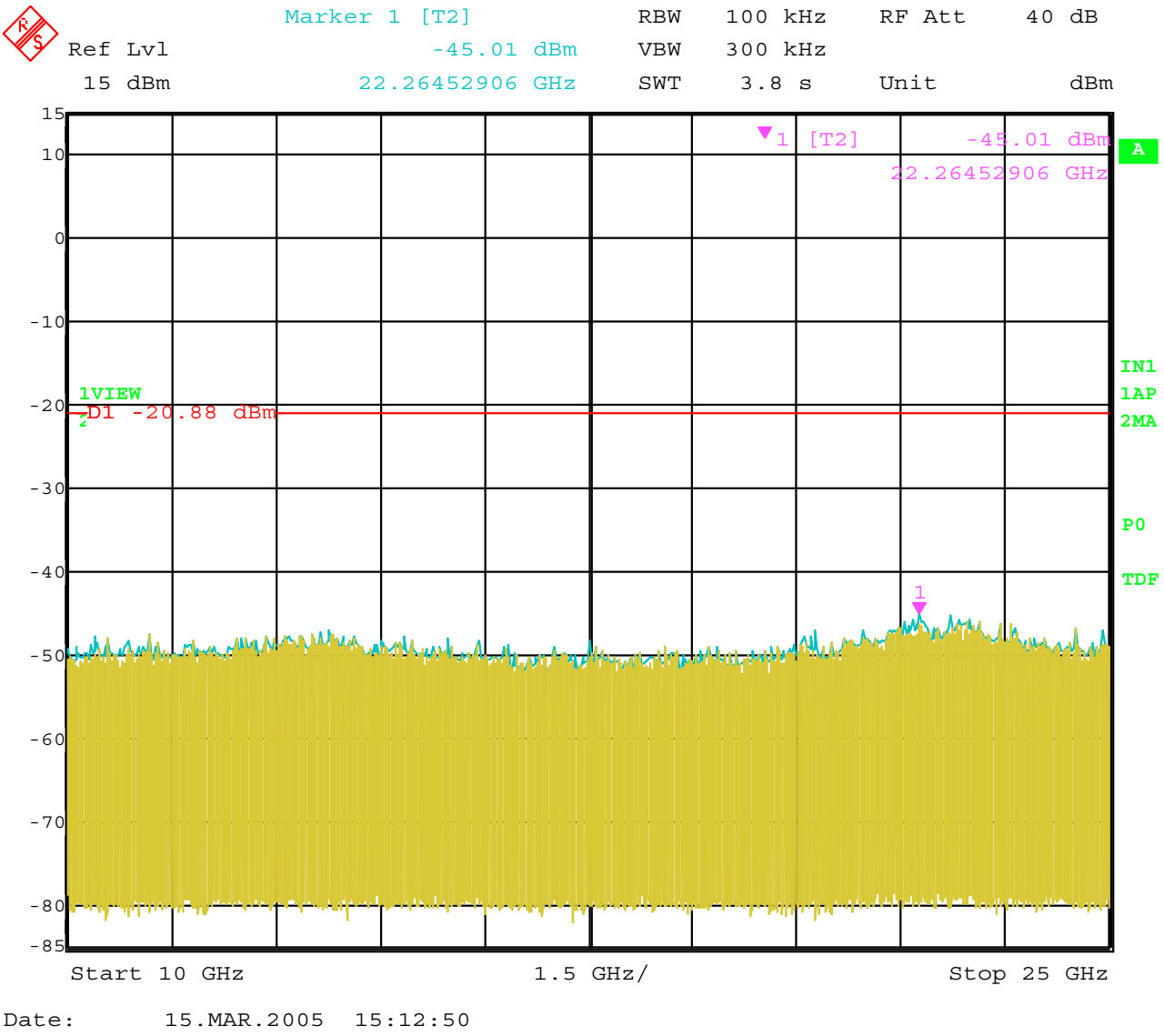
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Phycomp Antenna – 2 MHz to 2 GHz



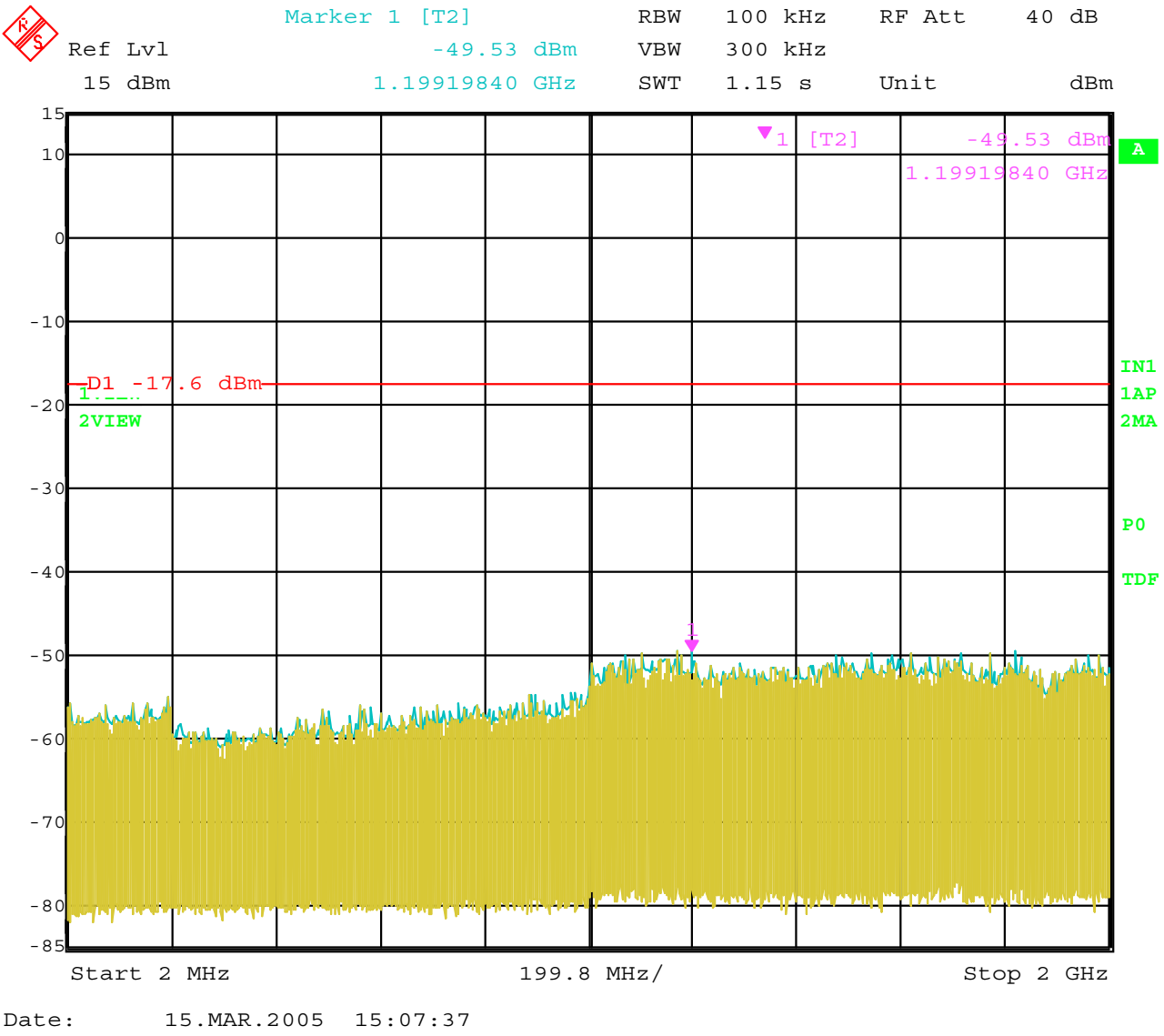
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Phycomp Antenna – 2 GHz to 3 GHz



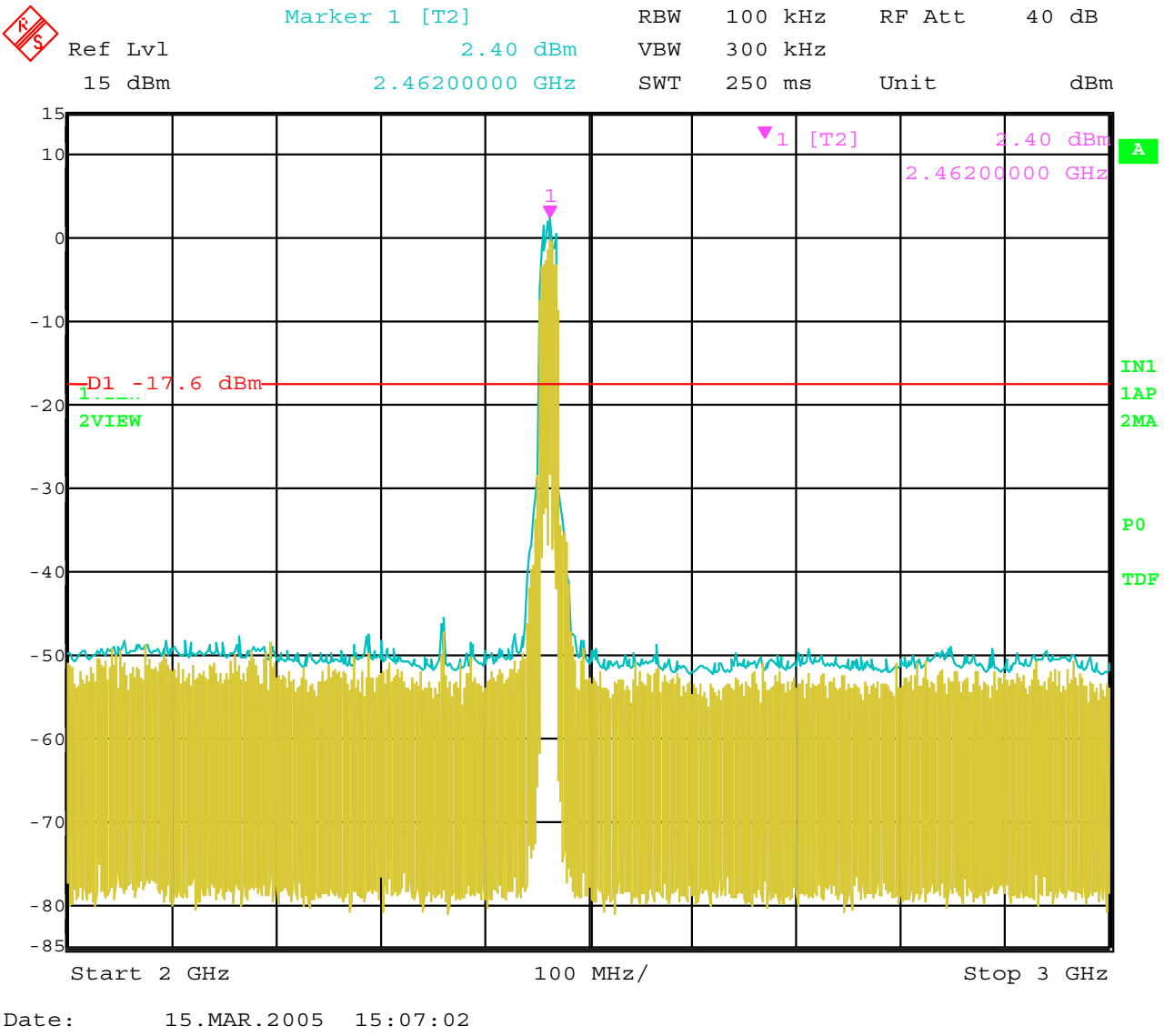
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Phycomp Antenna – 3 GHz to 10 GHz



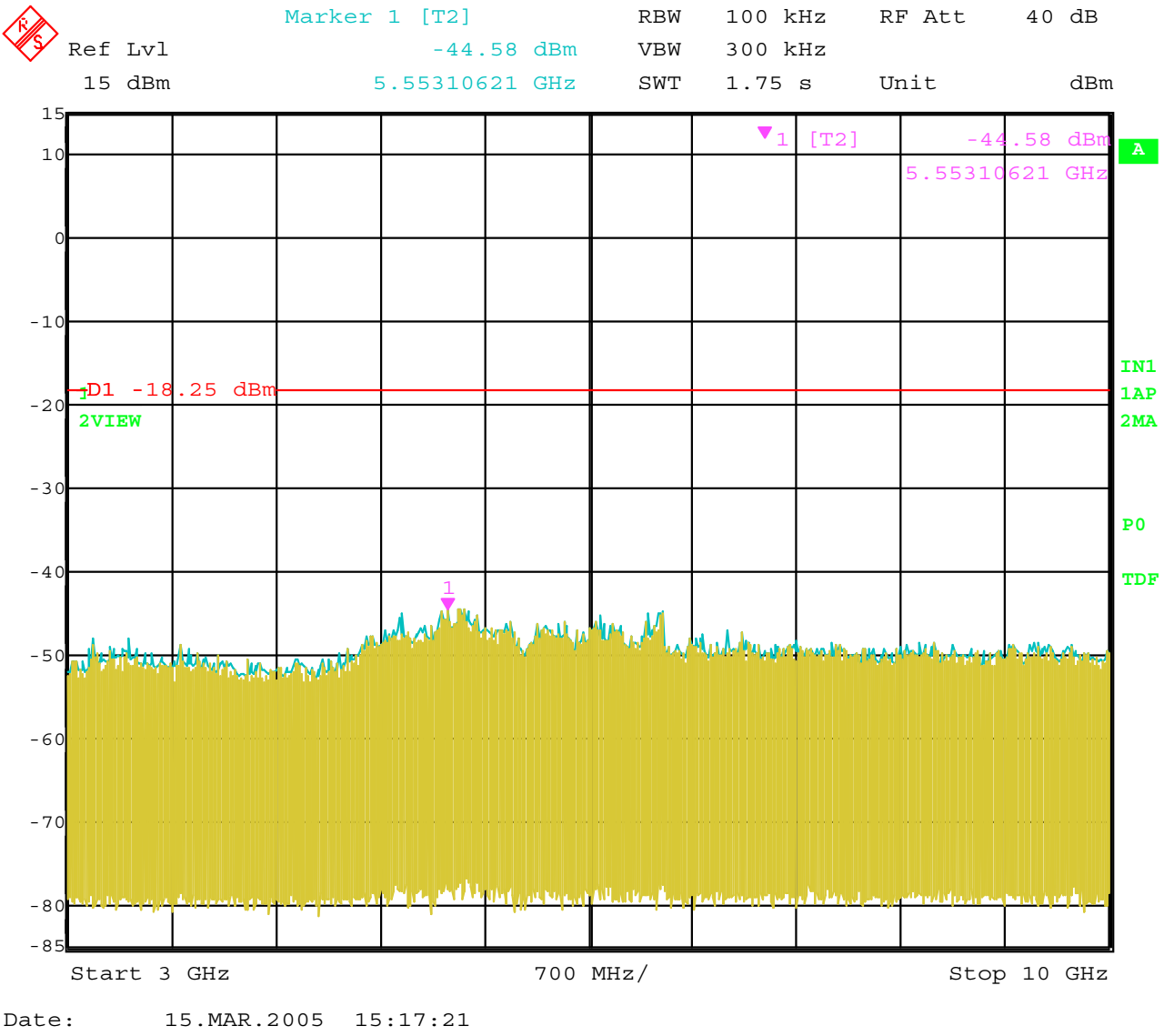
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Phycomp Antenna – 10 GHz to 25 GHz



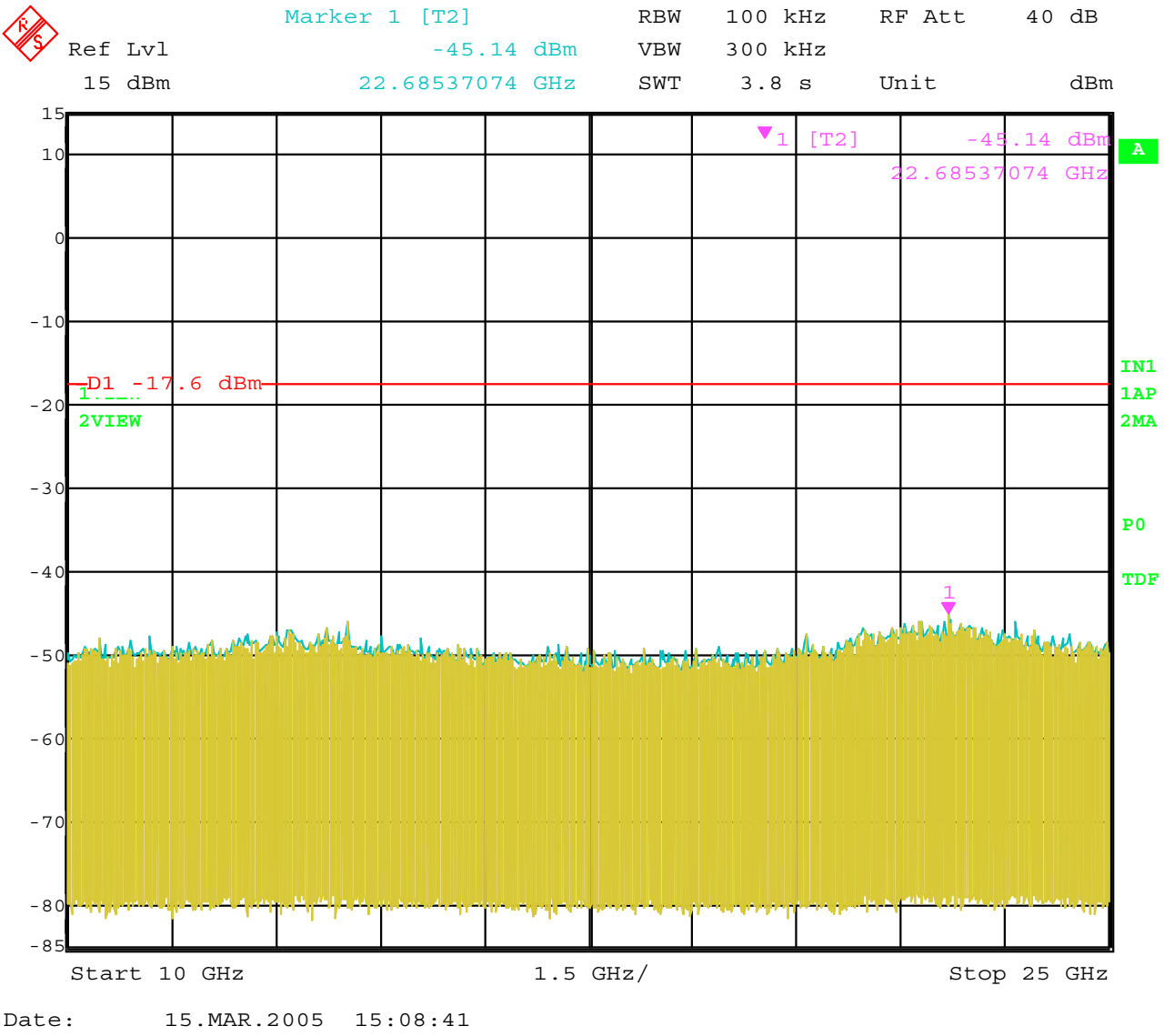
RF Antenna Conducted – Channel 11 – 802.11 g Mode – Phycomp Antenna – 2 MHz to 2 GHz



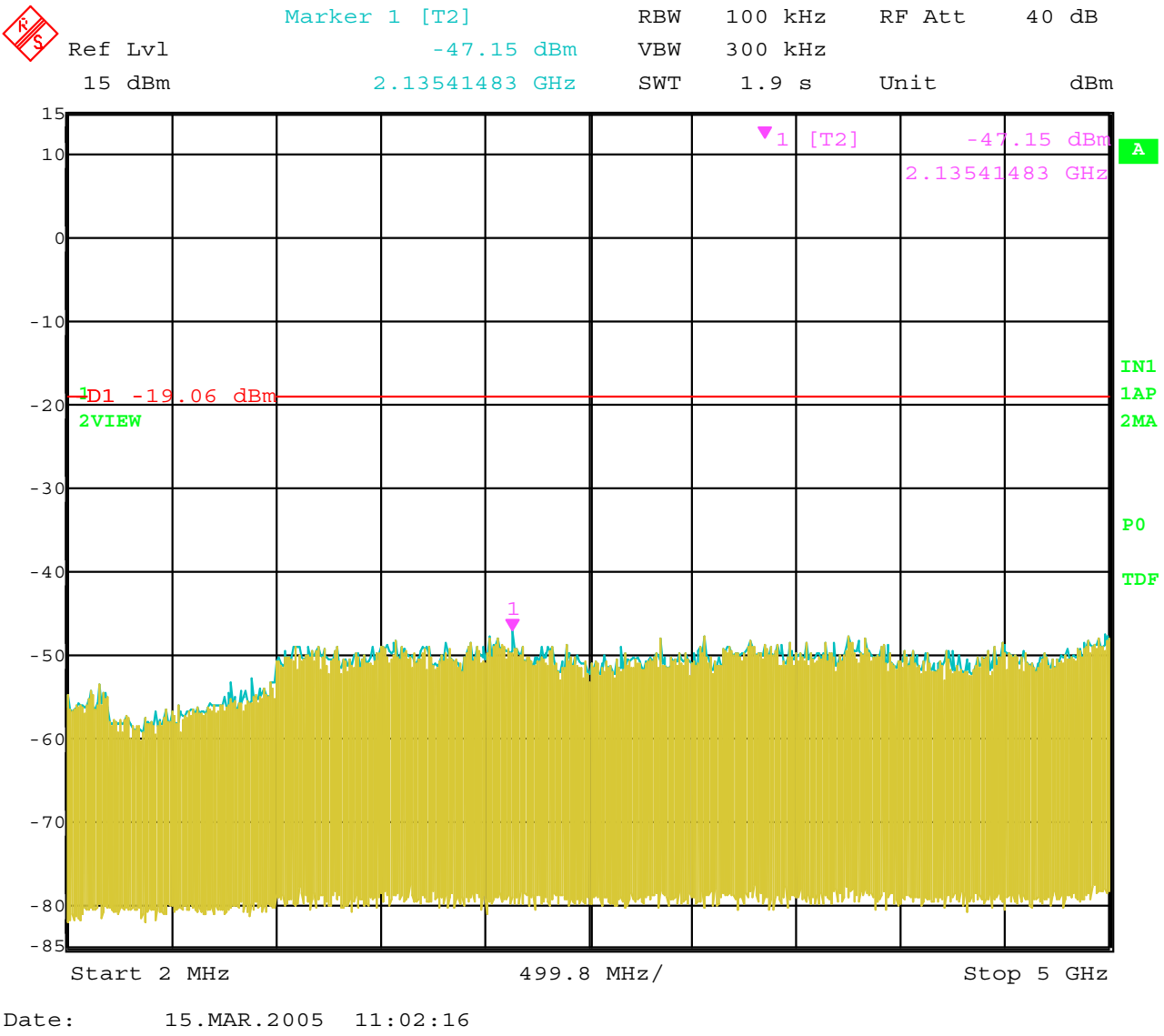
RF Antenna Conducted – Channel 11 – 802.11 g Mode – Phycomp Antenna – 2 GHz to 3 GHz



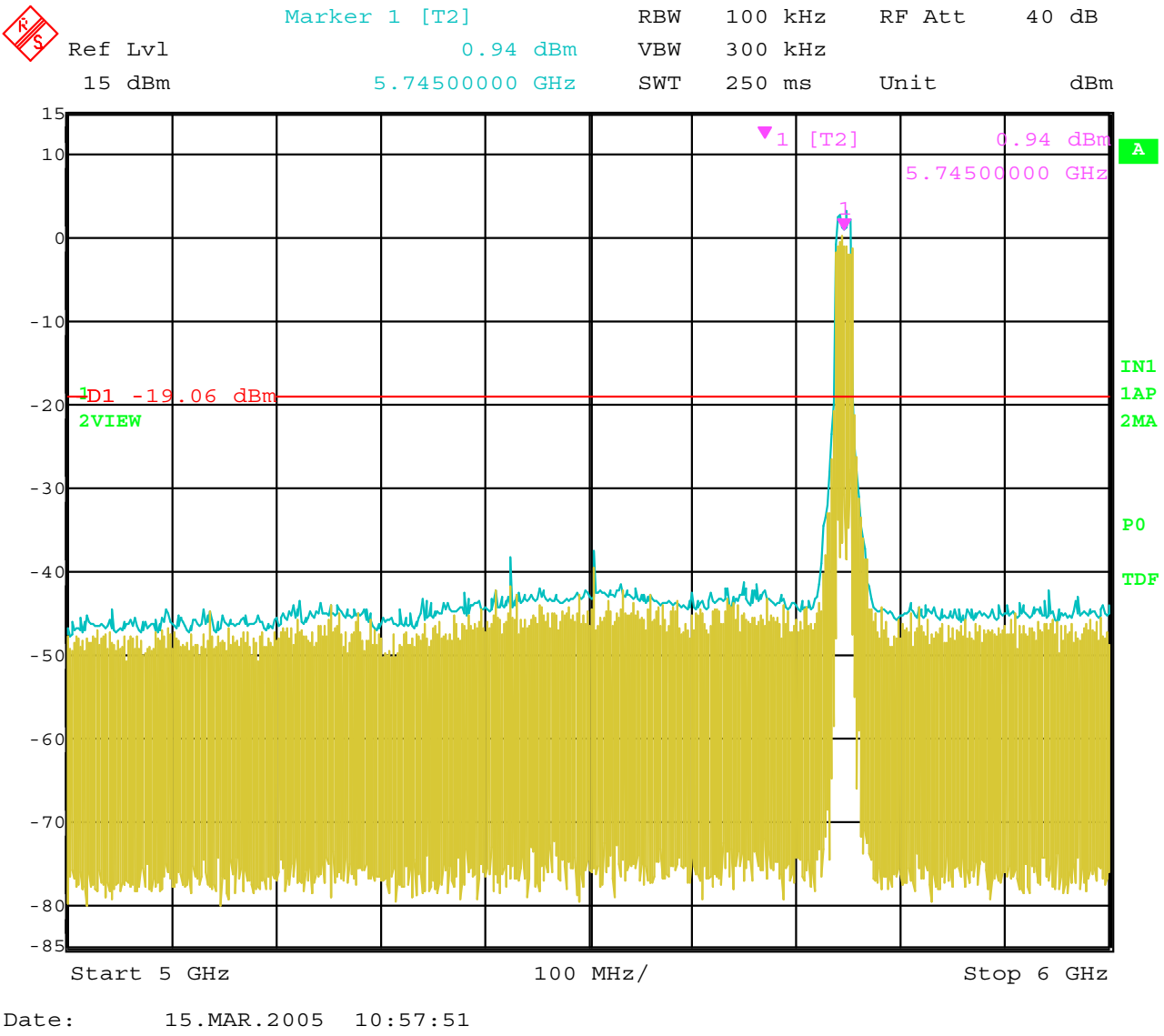
RF Antenna Conducted – Channel 11 – 802.11 g Mode – Phycomp Antenna – 3 GHz to 10 GHz



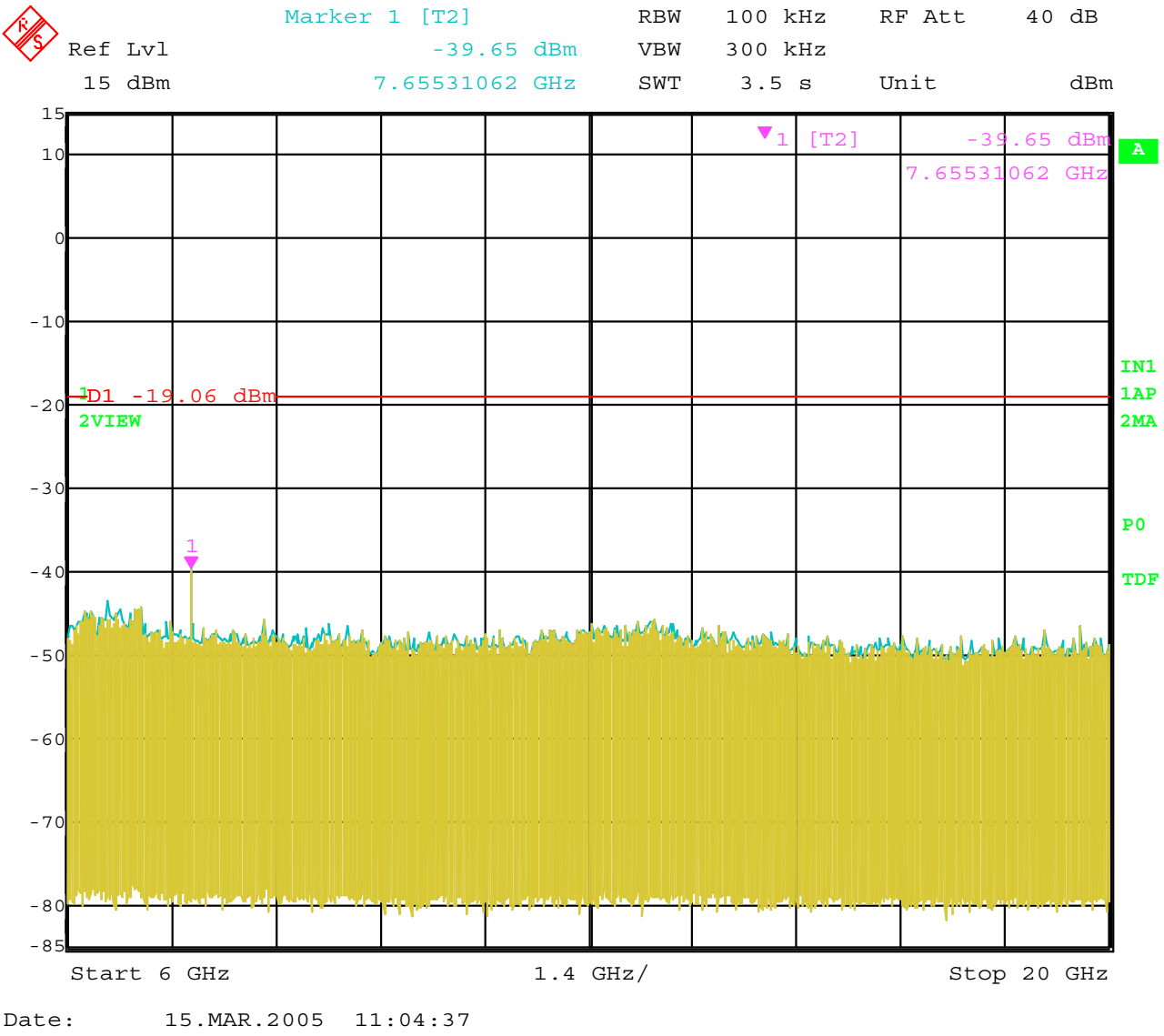
RF Antenna Conducted – Channel 11 – 802.11 g Mode – Phycomp Antenna – 10 GHz to 25 GHz



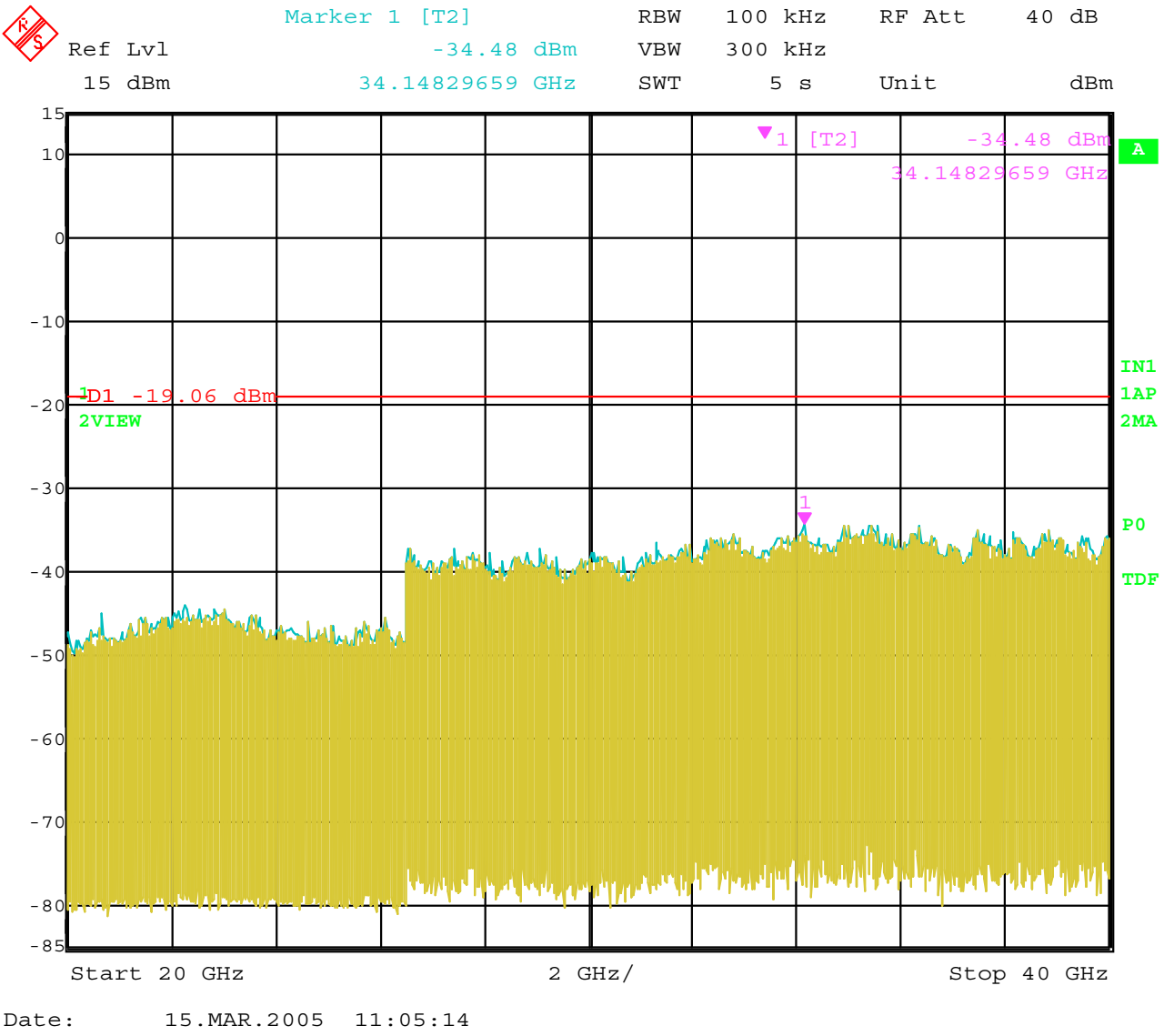
RF Antenna Conducted Test – Channel 149 – 802.11 a Mode – Phycomp Antenna – 2 MHz to 5 GHz



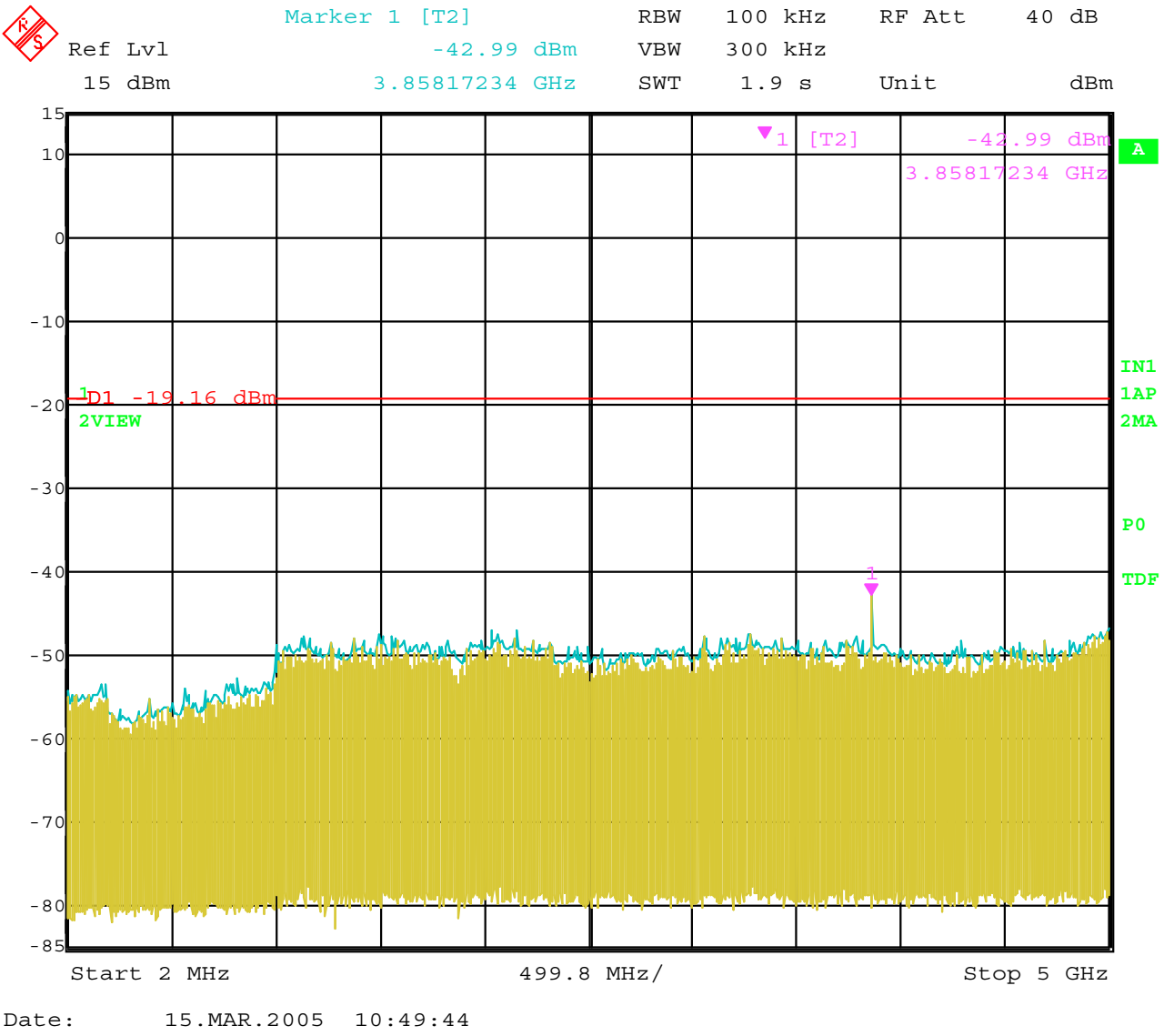
RF Antenna Conducted Test – Channel 149 – 802.11 a Mode – Phycomp Antenna – 5 GHz to 6 GHz



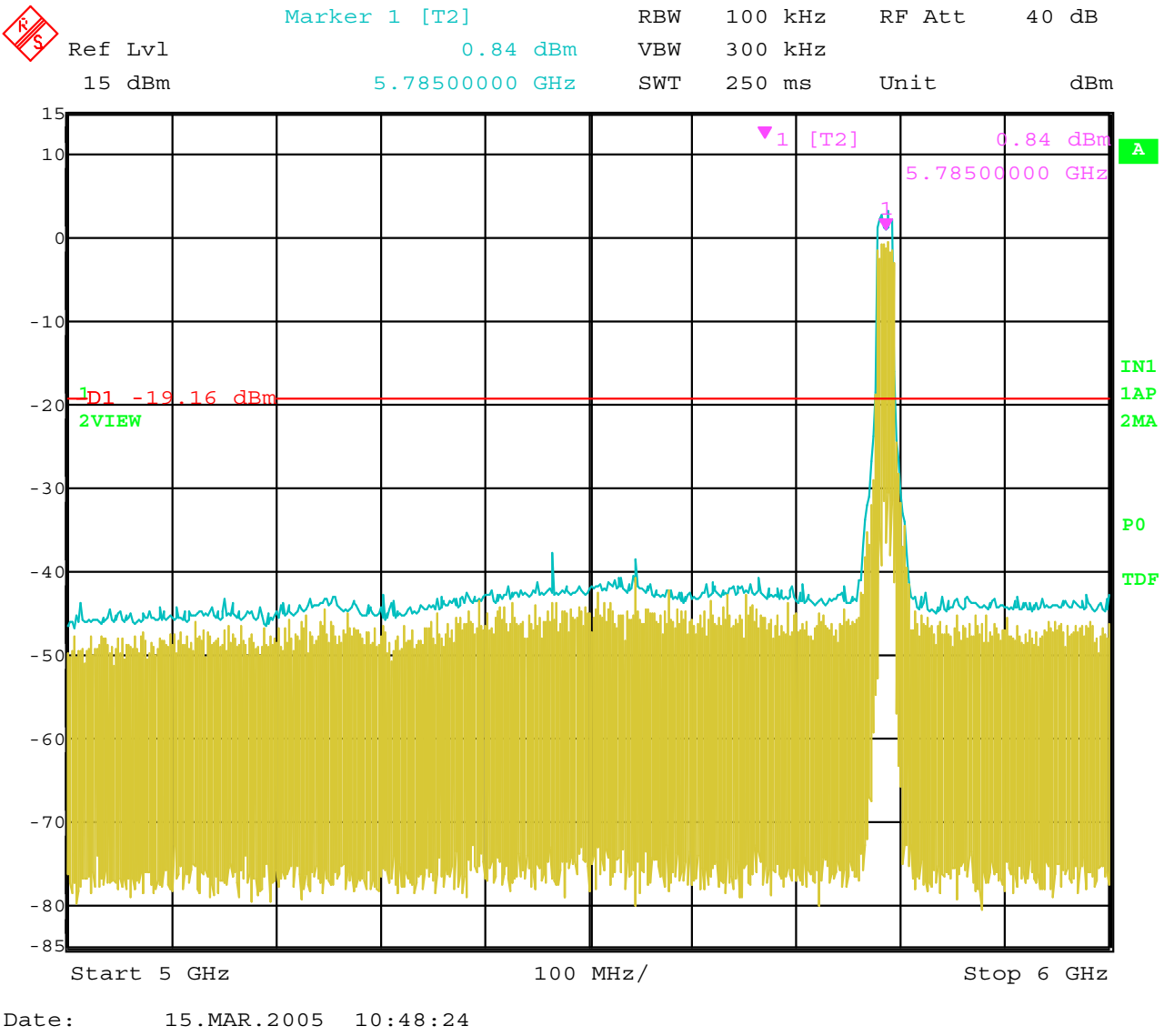
RF Antenna Conducted Test – Channel 149 – 802.11 a Mode – Phycomp Antenna – 6 GHz to 20 GHz



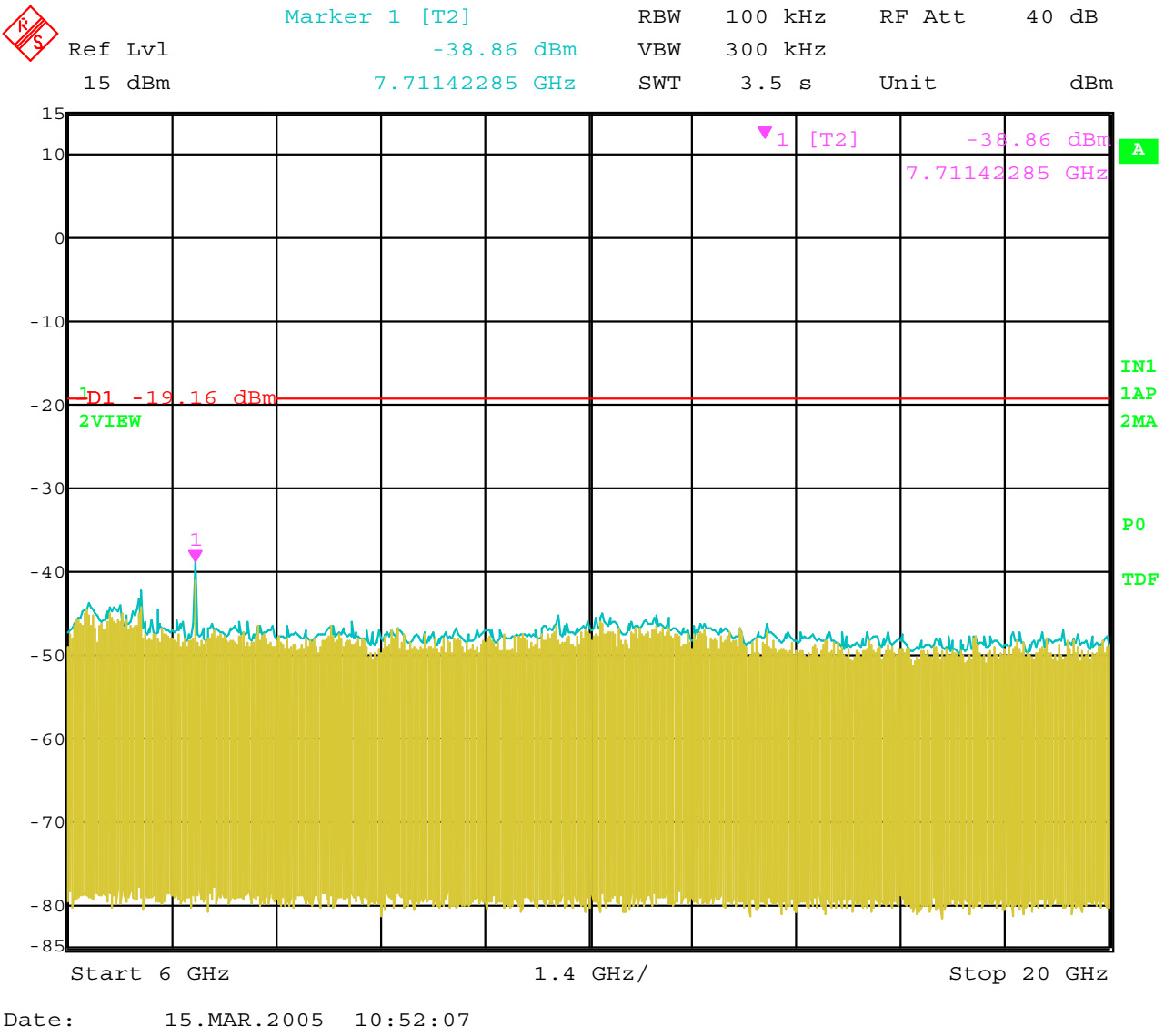
RF Antenna Conducted Test – Channel 149 – 802.11 a Mode – Phycomp Antenna – 20 GHz to 40 GHz



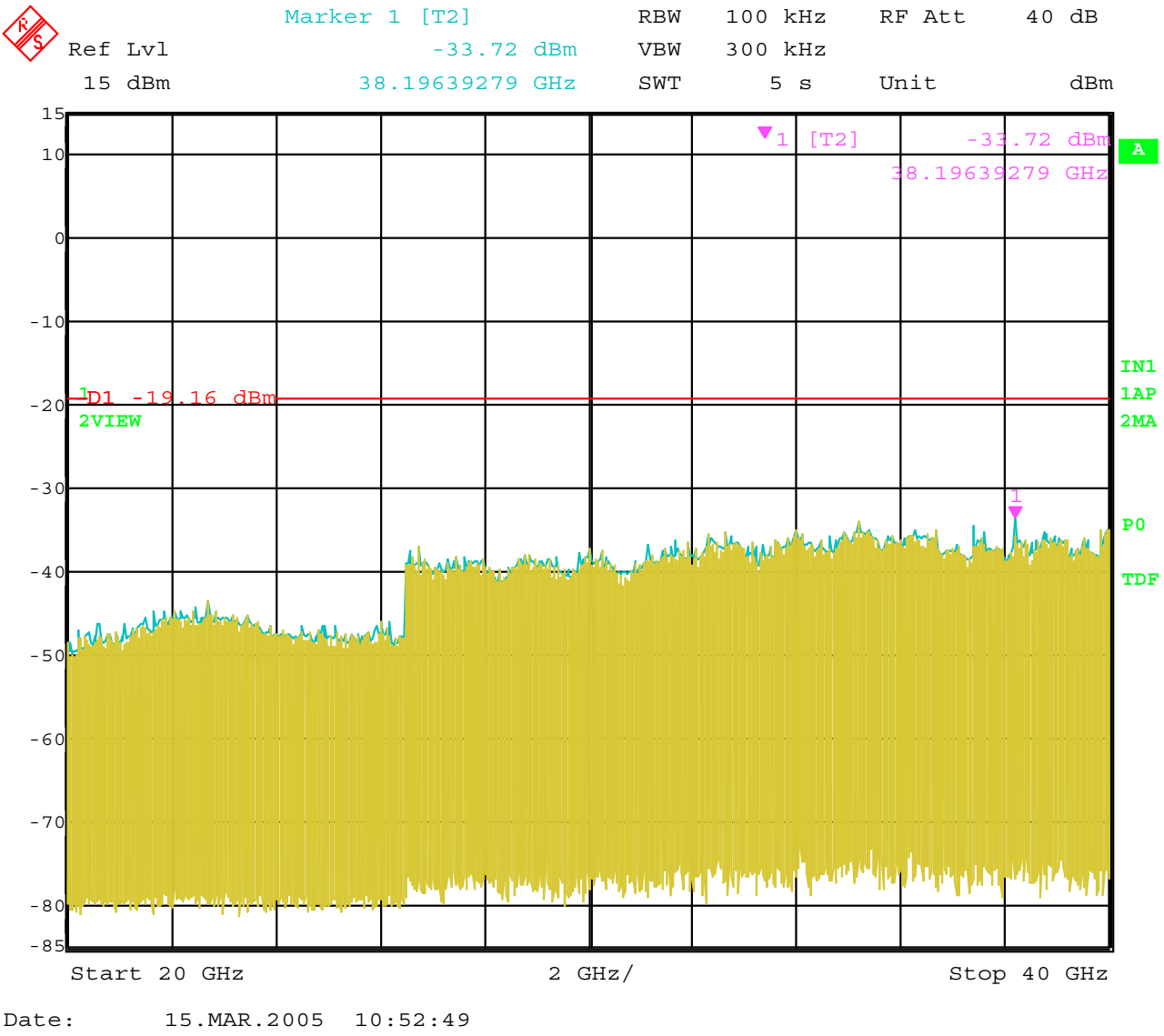
RF Antenna Conducted Test – Channel 157 – 802.11 a Mode – Phycomp Antenna – 2 MHz to 5 GHz



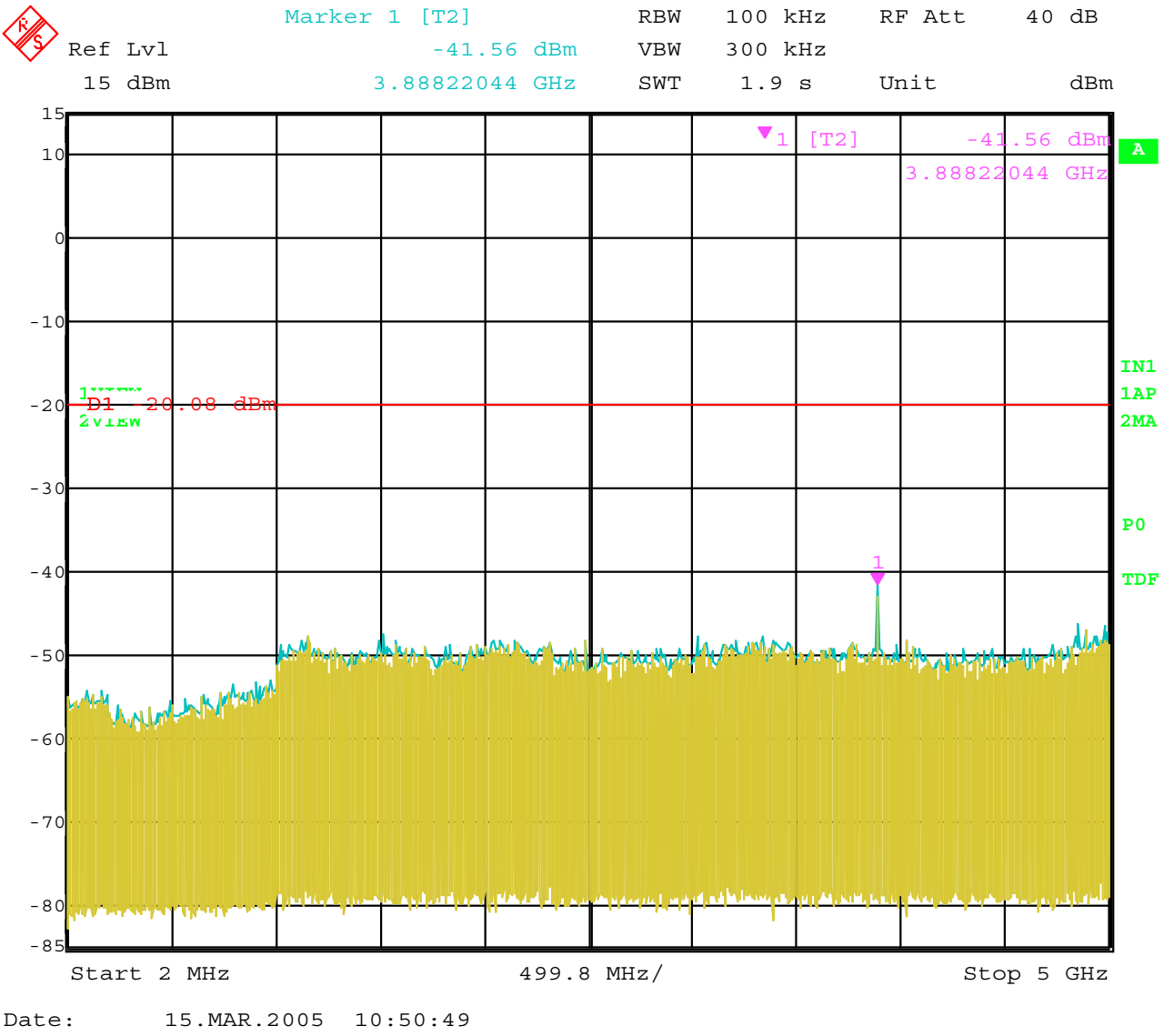
RF Antenna Conducted Test – Channel 157 – 802.11 a Mode – Phycomp Antenna – 5 GHz to 6 GHz



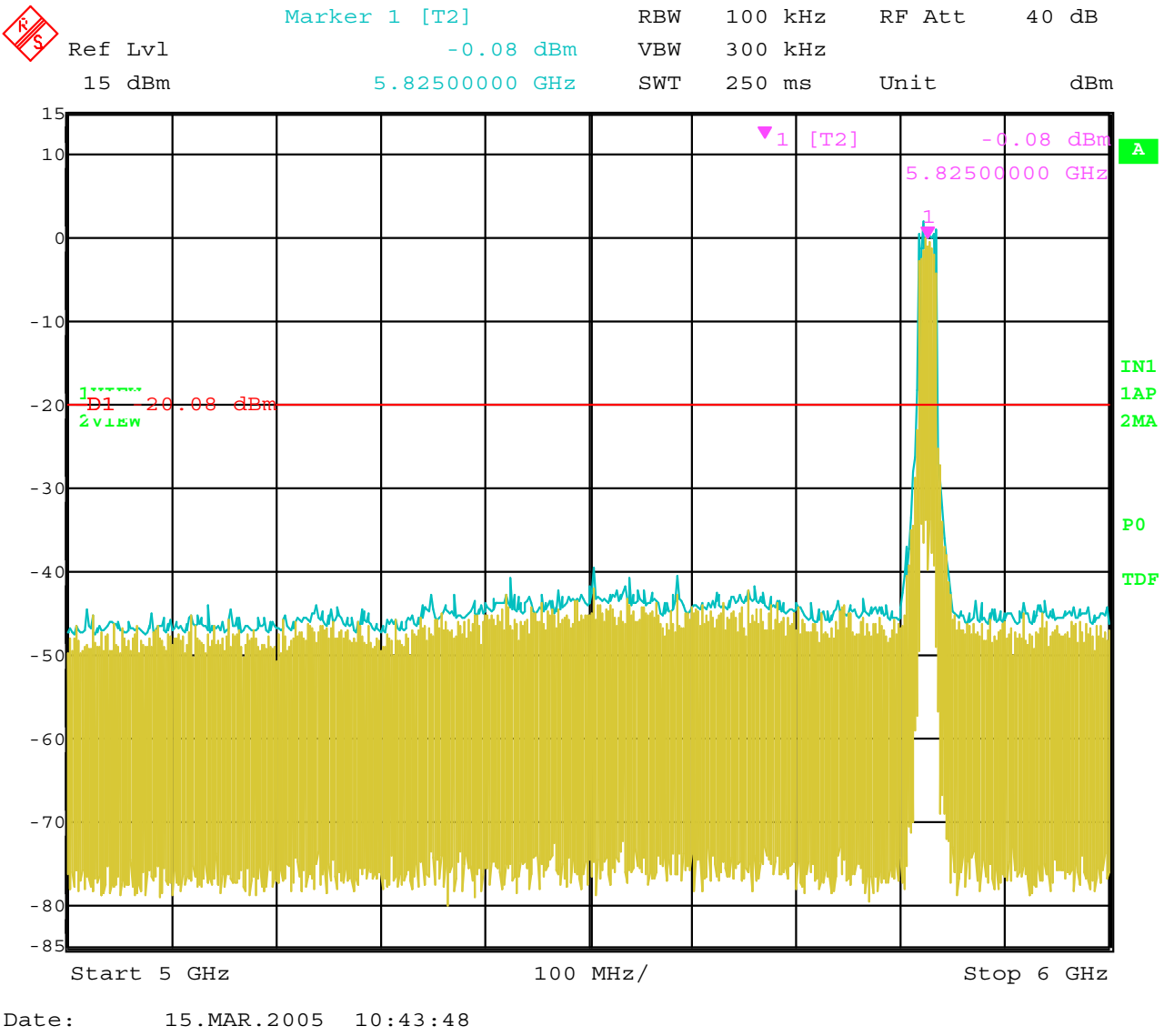
RF Antenna Conducted Test – Channel 157 – 802.11 a Mode – Phycomp Antenna – 6 GHz to 20 GHz



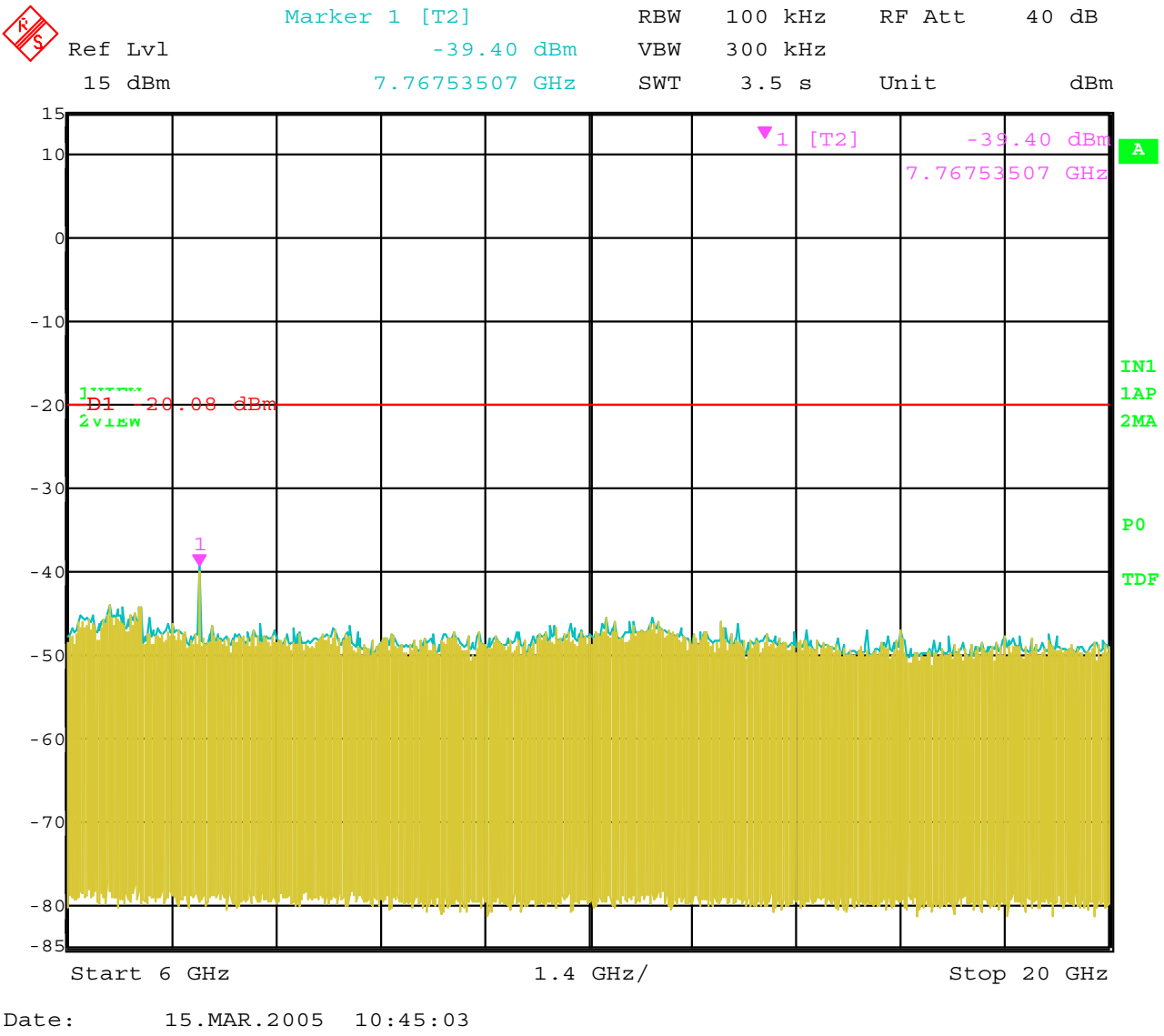
RF Antenna Conducted Test – Channel 157 – 802.11 a Mode – Phycomp Antenna – 6 GHz to 20 GHz



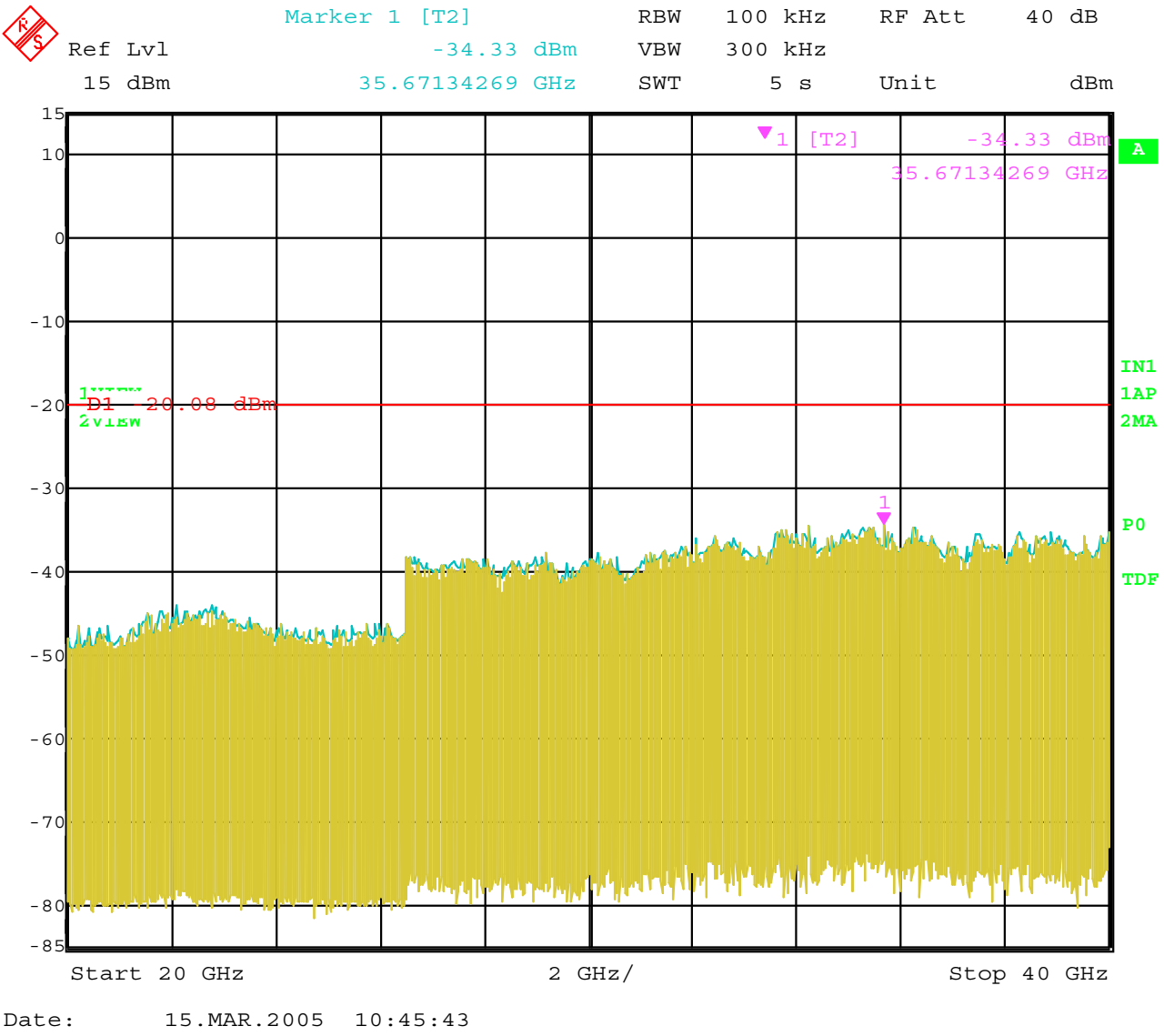
RF Antenna Conducted Test – Channel 165 – 802.11 a Mode – Phycomp Antenna – 2 MHz to 5 GHz



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



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



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

BAND EDGES

DATA SHEETS

FCC 15.247

Intel Corporation — Date: 3/15/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Phycomp Antenna

Channel 1 - 802.11 b Mode Gain : 14.5 Peak Power: 17.38 dBm Avg. Power: 15.45 dBm

Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 19.19 dBm Avg. Power: 17.20 dBm

Channel 11 - 802.11 b Mode Gain : 16.0 Peak Power: 19.04 dBm Avg. Power: 17.10 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	101.13	V	--	--	Peak	1.98	225	Fundamental of Channel 1
2412	97.48	V	--	--	Avg	1.98	225	@ 3 meters
2390	48.19	V	74	-25.81	Peak	1.98	225	**No** Marker Delta Method
2390	38.09	V	54	-15.91	Avg	1.98	225	Method Used
2313.1	51.59	V	74	-22.41	Peak	1.98	225	**No** Marker Delta Method
2311.8	38.99	V	54	-15.01	Avg	1.98	225	Method Used
2437	103.31	V	--	--	Peak	1.65	225	Fundamental of Channel 6
2437	99.76	V	--	--	Avg	1.65	225	@ 3 meters
2462	103.28	V	--	--	Peak	1.94	225	Fundamental of Channel 11
2462	99.75	V	--	--	Avg	1.94	225	@ 3 meters
2483.5	50.63	V	74	-23.37	Peak	1.94	225	**No** Marker Delta Method
2483.5	39.27	V	54	-14.73	Avg	1.94	225	Method Used
2486.1	52.16	V	74	-21.84	Peak	1.94	225	**No** Marker Delta Method
2486.7	41.41	V	54	-12.59	Avg	1.94	225	Method Used

FCC 15.247

Intel Corporation — Date: 3/15/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Phycomp Antenna

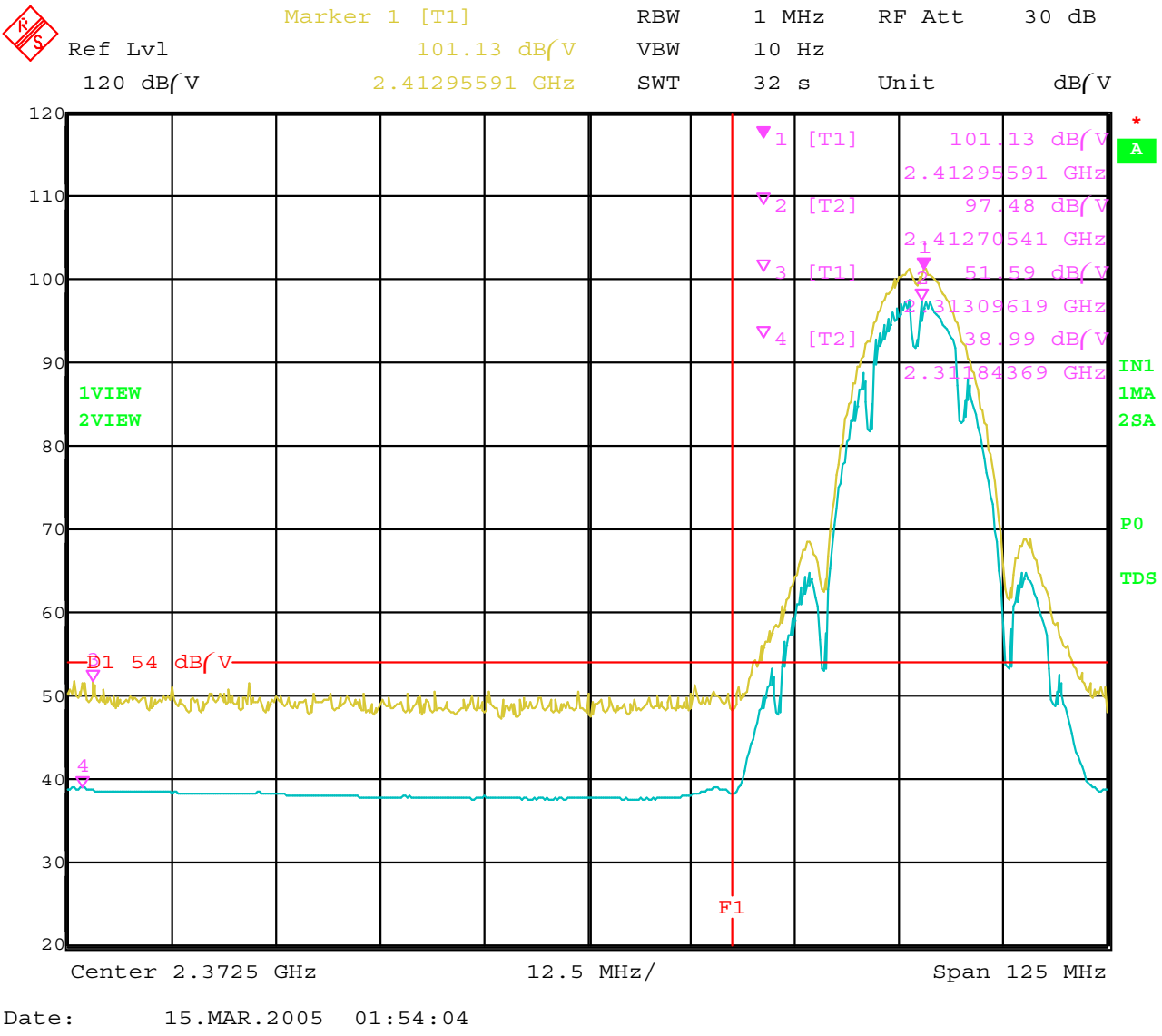
Channel 1 - 802.11 b Mode Gain : 14.5 Peak Power: 17.38 dBm Avg. Power: 15.45 dBm

Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 19.19 dBm Avg. Power: 17.20 dBm

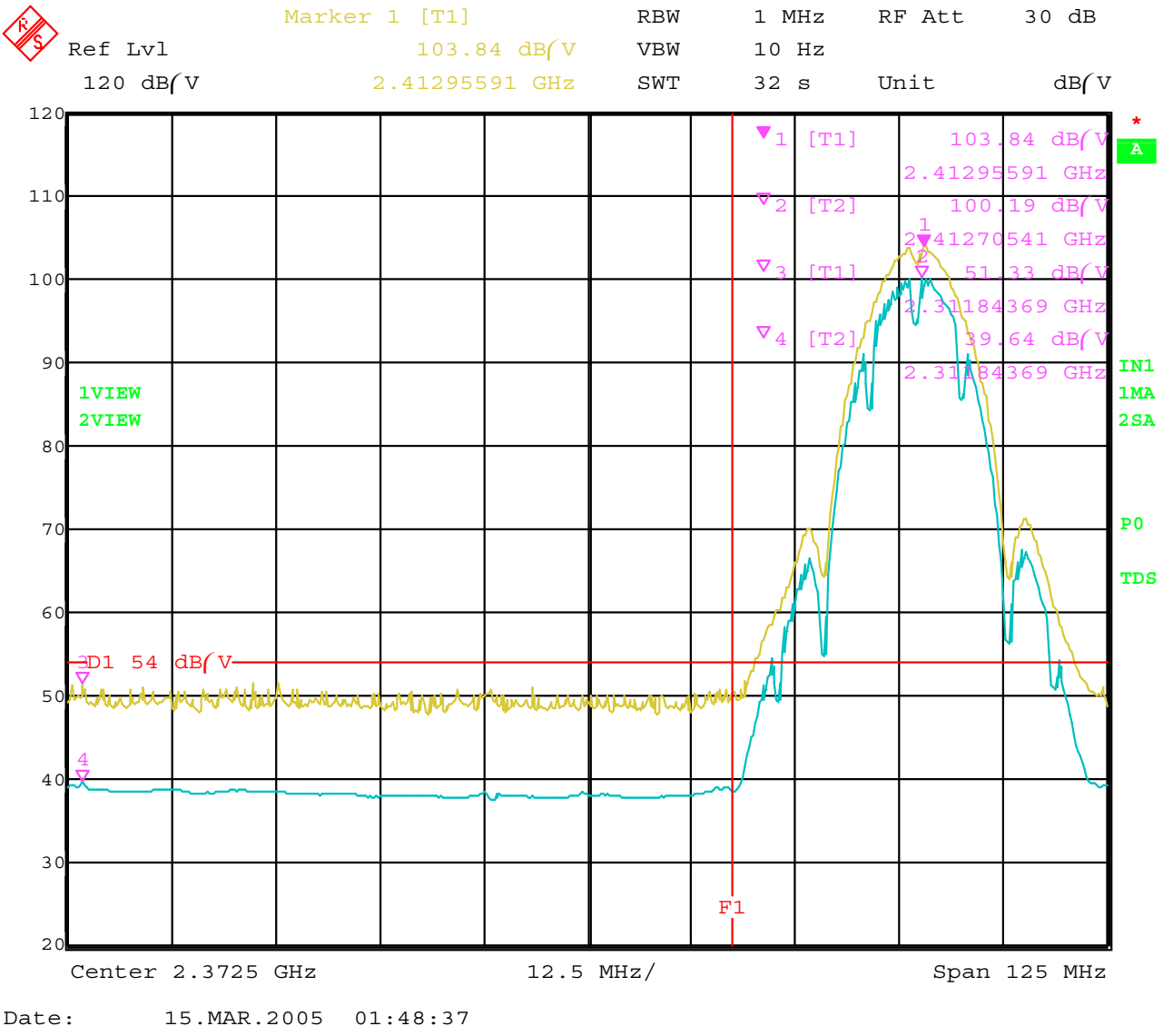
Channel 11 - 802.11 b Mode Gain : 16.0 Peak Power: 19.04 dBm Avg. Power: 17.10 dBm

Transmit Mode

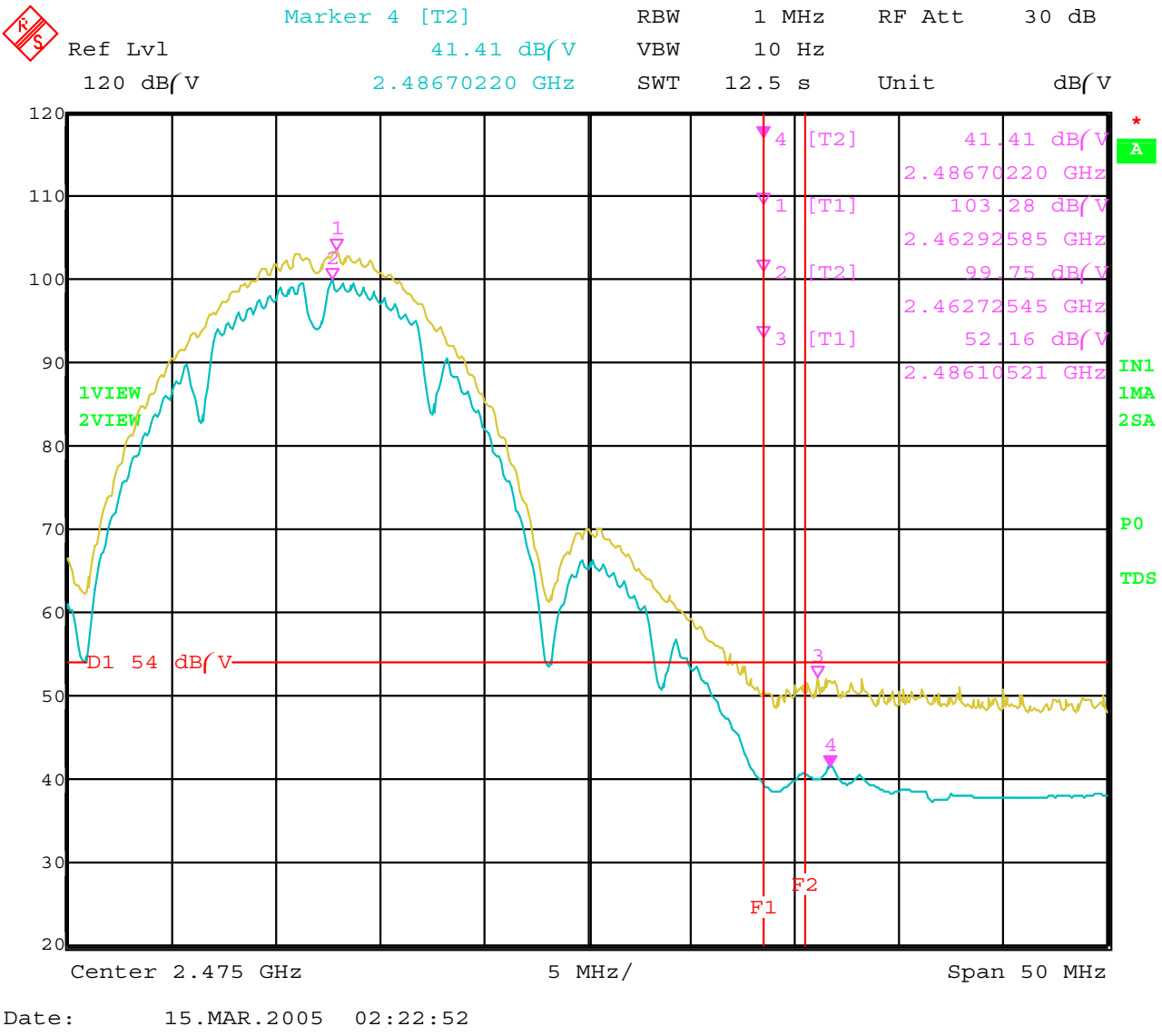
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	103.84	H	--	--	Peak	1	180	Fundamental of Channel 1
2412	100.19	H	--	--	Avg	1	180	@ 3 meters
2390	50.2	H	74	-23.8	Peak	1	180	**No** Marker Delta Method
2390	38.33	H	54	-15.67	Avg	1	180	Method Used
2311.8	51.33	H	74	-22.67	Peak	1	180	**No** Marker Delta Method
2311.84	39.64	H	54	-14.36	Avg	1	180	Method Used
2437	106.62	H	--	--	Peak	1	180	Fundamental of Channel 6
2437	103.13	H	--	--	Avg	1	180	@ 3 meters
2462	107.15	H	--	--	Peak	1.04	135	Fundamental of Channel 11
2462	103.6	H	--	--	Avg	1.04	135	@ 3 meters
2483.5	52.37	H	74	-21.63	Peak	1.04	135	**No** Marker Delta Method
2483.5	42.17	H	54	-11.83	Peak	1.04	135	Method Used
2486.7	55.6	H	74	-18.4	Peak	1.04	135	**No** Marker Delta Method
2486.8	44.87	H	54	-9.13	Peak	1.04	135	Method Used



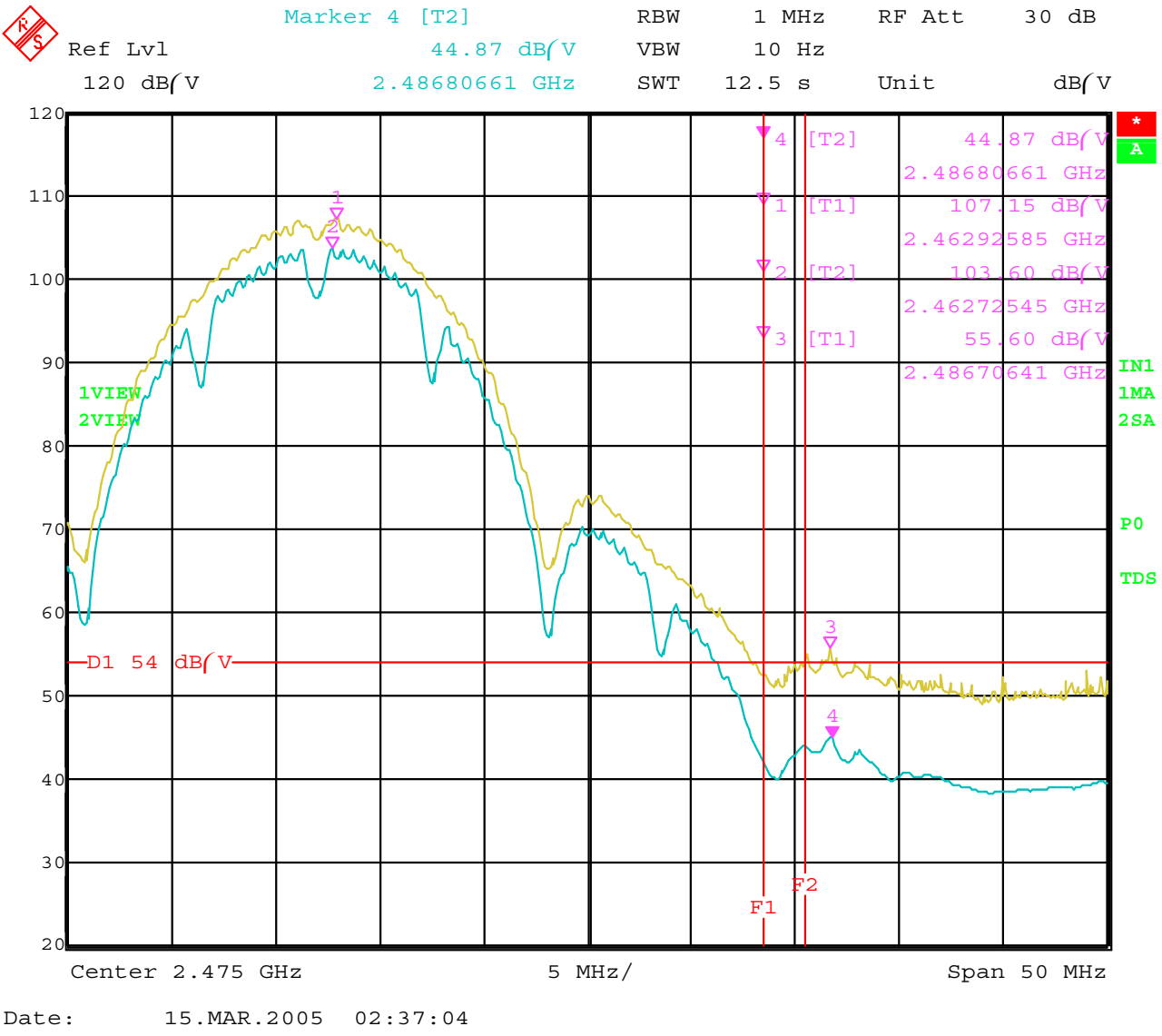
Band Edge – Channel 1 – Vertical Polarization – 802.11 b Mode – Phycomp Antenna



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



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



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

FCC 15.247

Intel Corporation — Date: 3/15/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

with Phycomp Antenna

Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.55 dBm Avg. Power: 16.05 dBm

Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 24.06 dBm Avg. Power: 15.36 dBm

Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 24.14 dBm Avg. Power: 15.46 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	104.2	V	--	--	Peak	2.19	270	Fundamental of Channel 1
2412	93.3	V	--	--	Avg	2.19	270	@ 3 meters
2390	65.71	V	74	-8.29	Peak	2.19	270	**No** Marker Delta Method
2390	46.86	V	54	-7.14	Avg	2.19	270	Method Used
2437	104.13	V	--	--	Peak	2.2	270	Fundamental of Channel 6
2437	92.96	V	--	--	Avg	2.2	270	@ 3 meters
2462	104.34	V	--	--	Peak	3.01	90	Fundamental of Channel 11
2462	93.98	V	--	--	Avg	3.01	90	@ 3 meters
2483.5	62.43	V	74	-11.57	Peak	3.01	90	**No** Marker Delta Method
2483.5	45.17	V	54	-8.83	Avg	3.1	90	Method Used
2494.2	54.65	V	74	-19.35	Peak	3.01	90	**No** Marker Delta Method
2494.4	43.55	V	54	-10.45	Avg	3.01	90	Method Used

FCC 15.247

Intel Corporation — Date: 3/15/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

with Phycomp Antenna

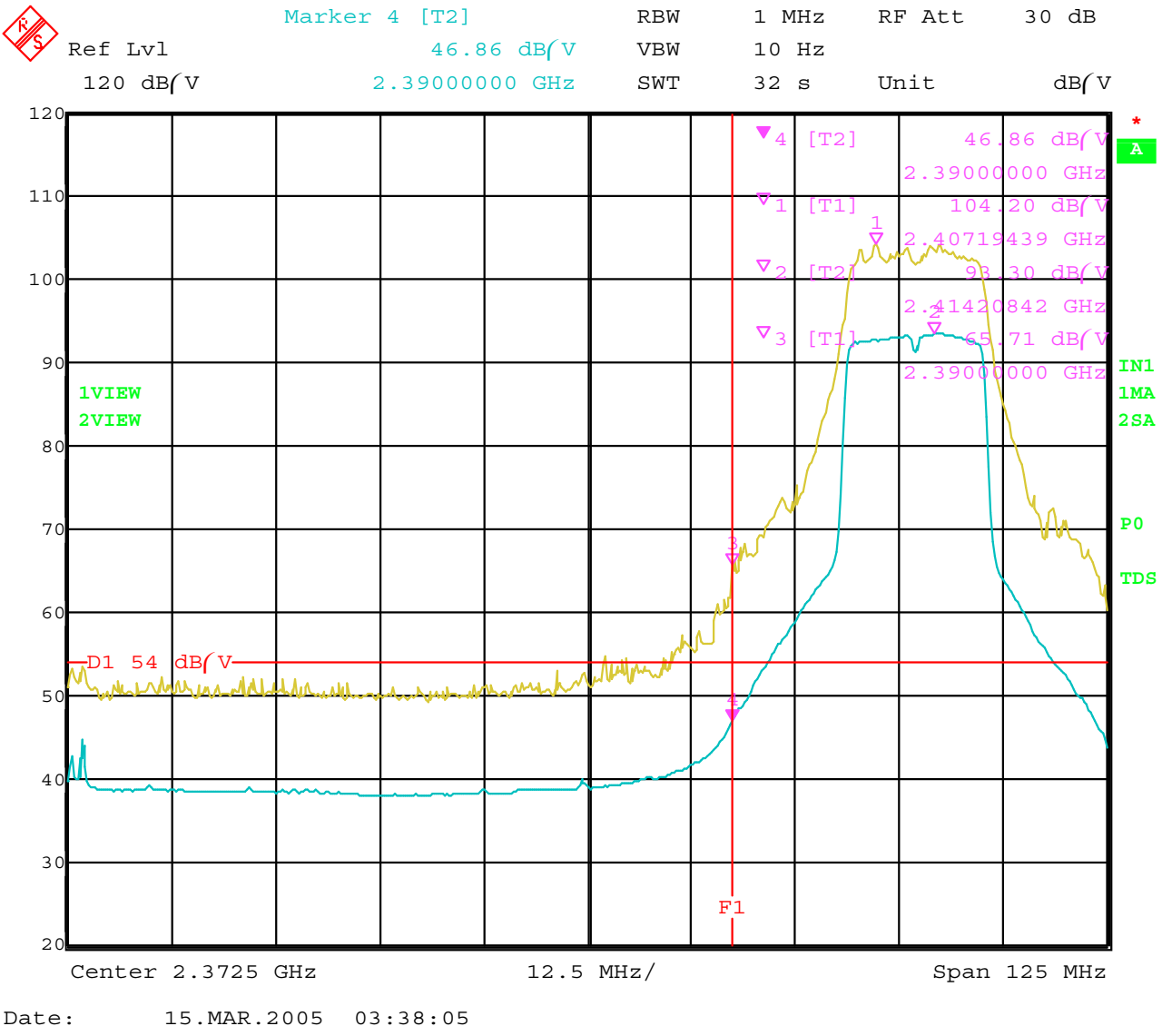
Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.55 dBm Avg. Power: 16.05 dBm

Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 24.06 dBm Avg. Power: 15.36 dBm

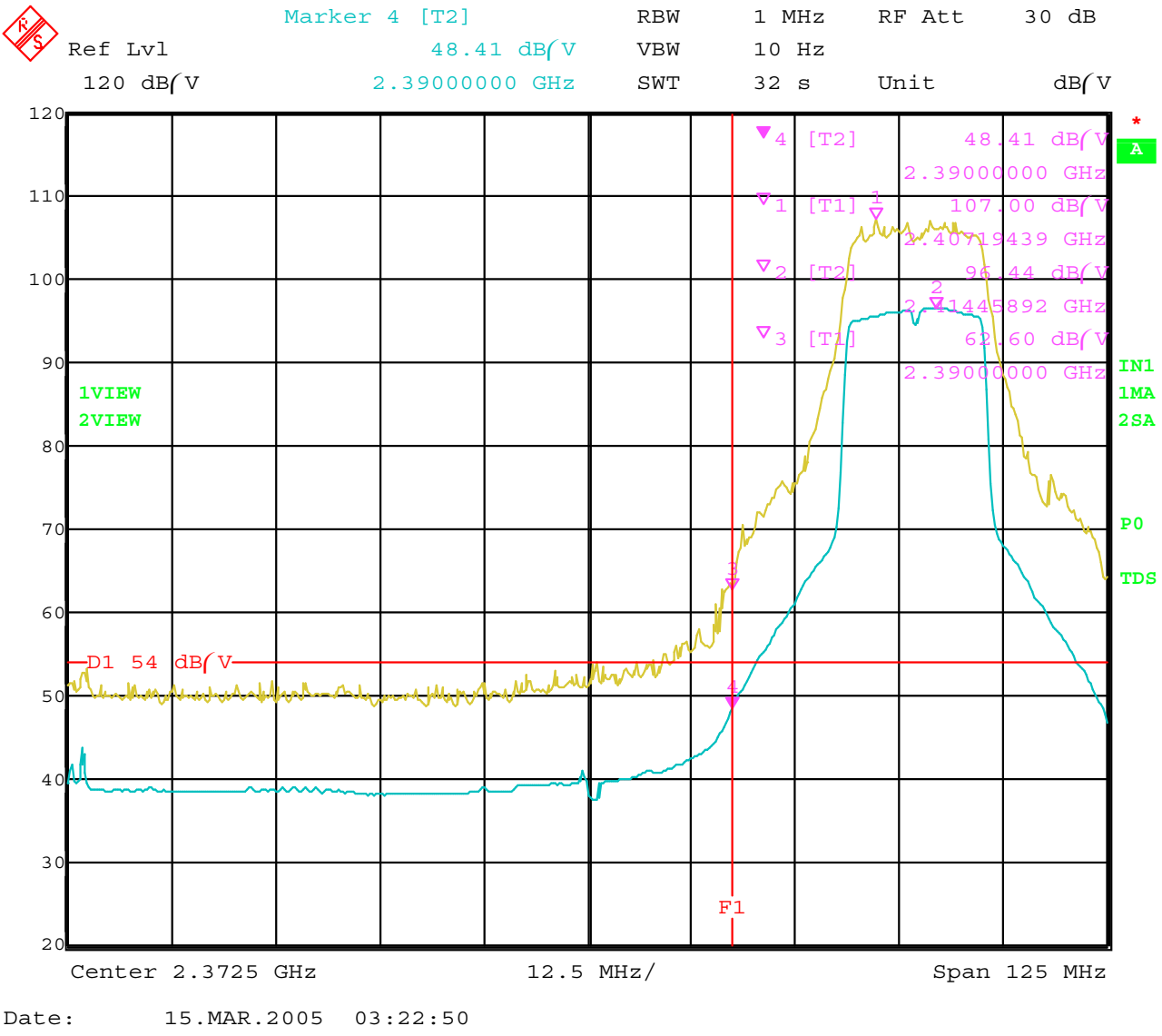
Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 24.14 dBm Avg. Power: 15.46 dBm

Transmit Mode

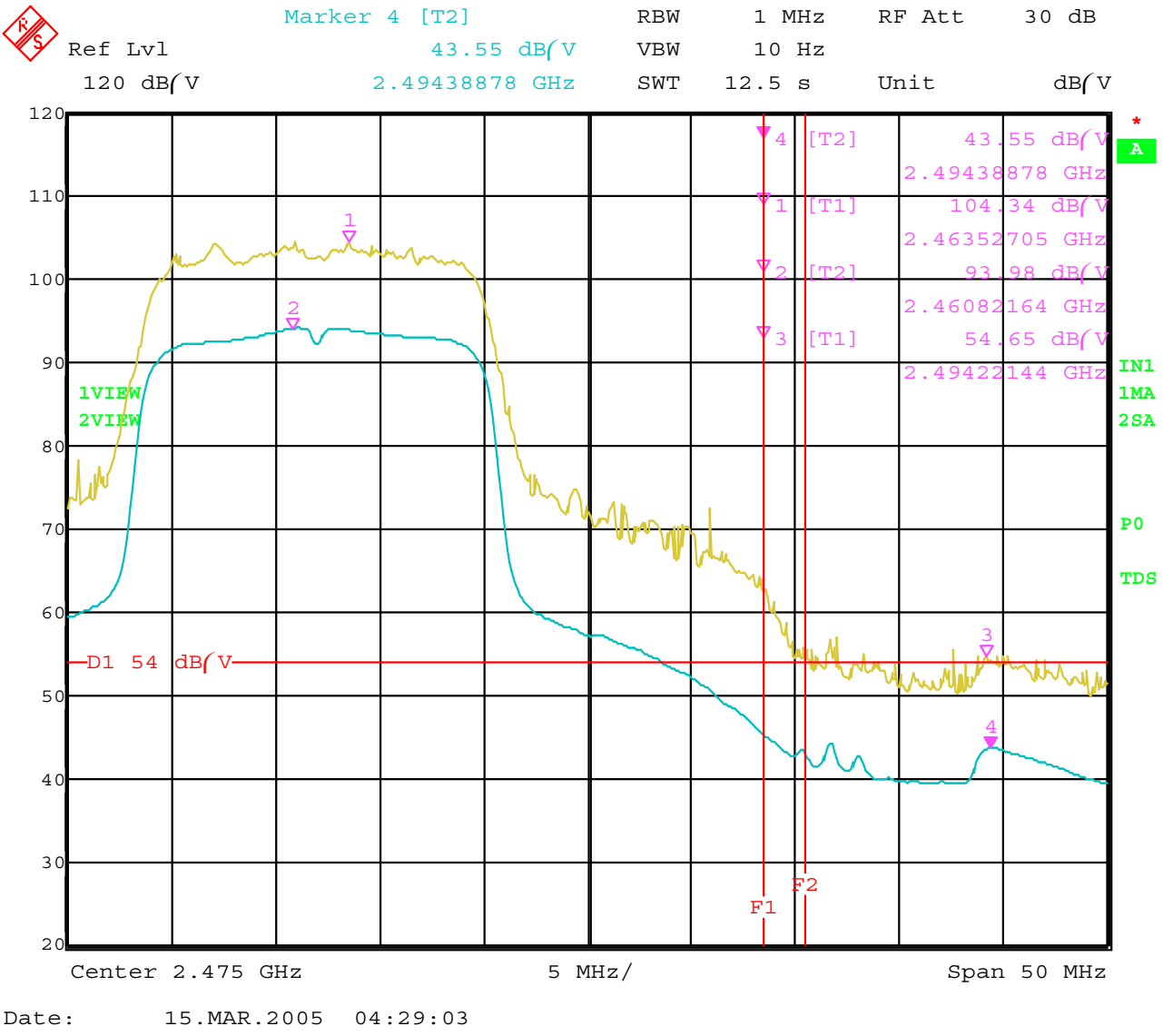
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	107	H	--	--	Peak	1	180	Fundamental of Channel 1
2412	96.44	H	--	--	Avg	1	180	@ 3 meters
2390	62.6	H	74	-11.4	Peak	1	180	
2390	48.41	H	54	-5.59	Avg	1	180	
2437	106.07	H	--	--	Peak	2.46	180	Fundamental of Channel 6
2437	95.33	H	--	--	Avg	2.46	180	@ 3 meters
2462	107.36	H	--	--	Peak	1	180	Fundamental of Channel 11
2462	96.94	H	--	--	Avg	1	180	@ 3 meters
2483.5	65.3	H	74	-8.7	Peak	1	180	**No** Marker Delta Method
2483.5	46.51	H	54	-7.49	Peak	1	180	Method Used
2486.8	57.57	H	74	-16.43	Peak	1	180	**No** Marker Delta Method
2486.7	45.24	H	54	-8.76	Peak	1	180	Method Used



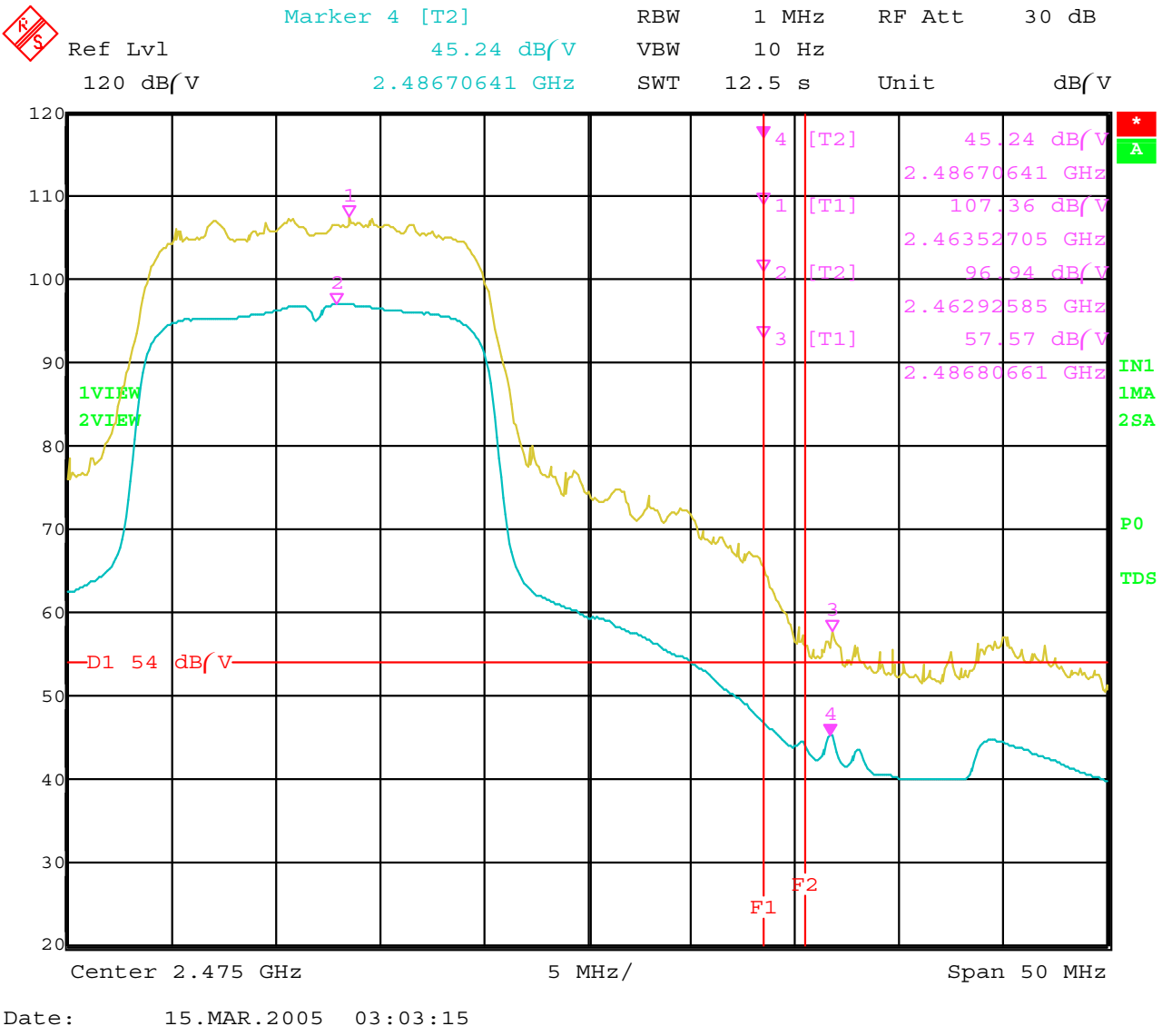
Band Edge – Channel 1 – Vertical Polarization – 802.11 g Mode – Phycomp Antenna



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



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



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

FCC 15.247

Intel Corporation — Date: 3/15/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Phycomp Antenna

Channel 149 - 802.11 a Mode Gain : 14.5 Peak Power: 21.11 dBm Avg. Power: 15.59 dBm

Channel 157 - 802.11 a Mode Gain : 14.5 Peak Power: 21.04 dBm Avg. Power: 15.4 dBm

Channel 165 - 802.11 a Mode Gain : 14.5 Peak Power: 20.90 dBm Avg. Power: 15.17 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5745	105.6	V	--	--	Peak	1.82	270	Fundamental of Channel 149
5745	95.45	V	--	--	Avg	1.82	270	@ 3 meters
5785	105.74	V	--	--	Peak	1.53	270	Fundamental of Channel 157
5785	95.37	V	--	--	Avg	1.53	270	@ 3 meters
5825	105.52	V	--	--	Peak	1.28	270	Fundamental of Channel 165
5825	95.13	V	--	--	Avg	1.28	270	@ 3 meters

FCC 15.247

Intel Corporation — Date: 3/15/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Phycomp Antenna

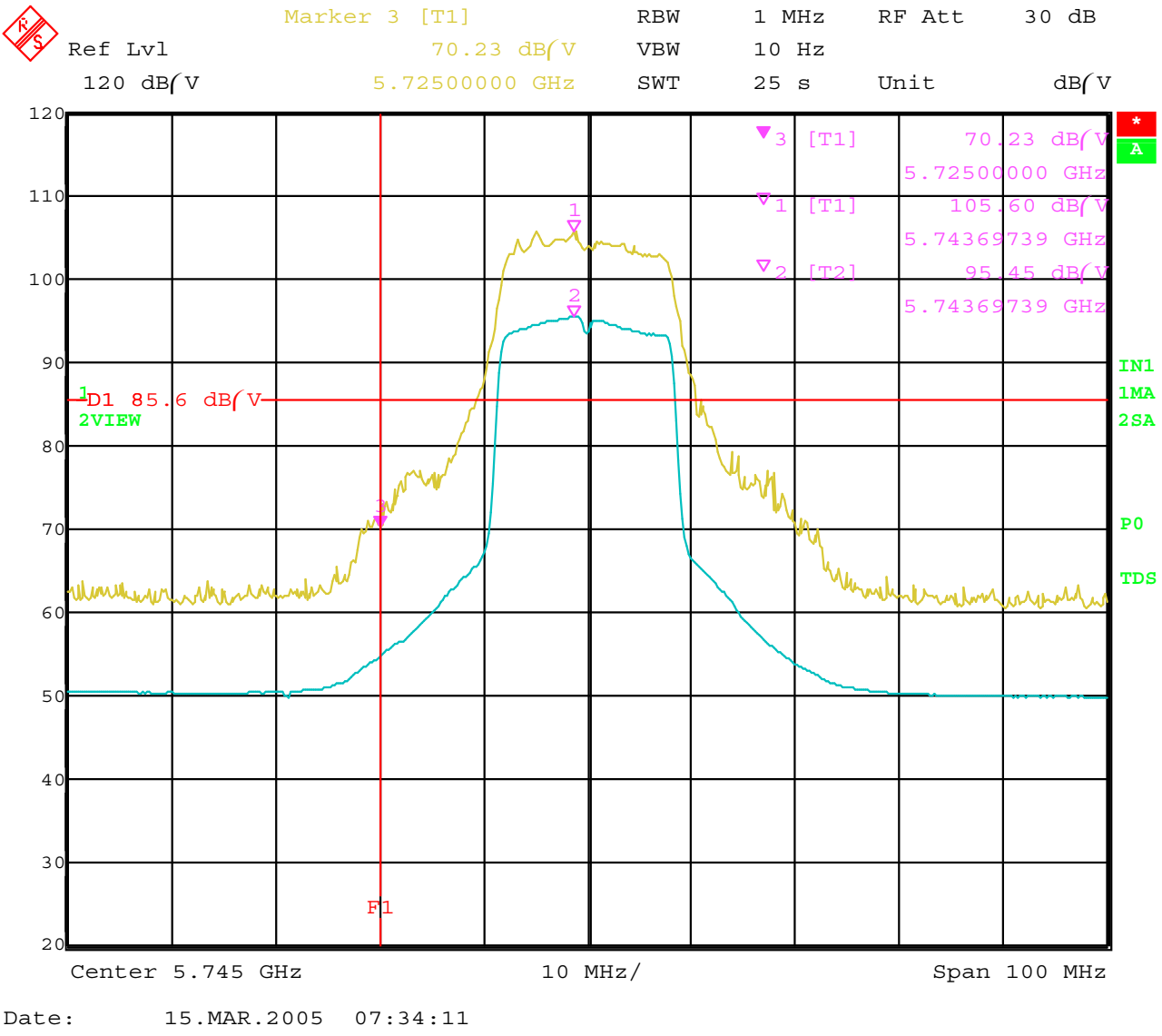
Channel 149 - 802.11 a Mode Gain : 14.5 Peak Power: 21.11 dBm Avg. Power: 15.59 dBm

Channel 157 - 802.11 a Mode Gain : 14.5 Peak Power: 21.04 dBm Avg. Power: 15.4 dBm

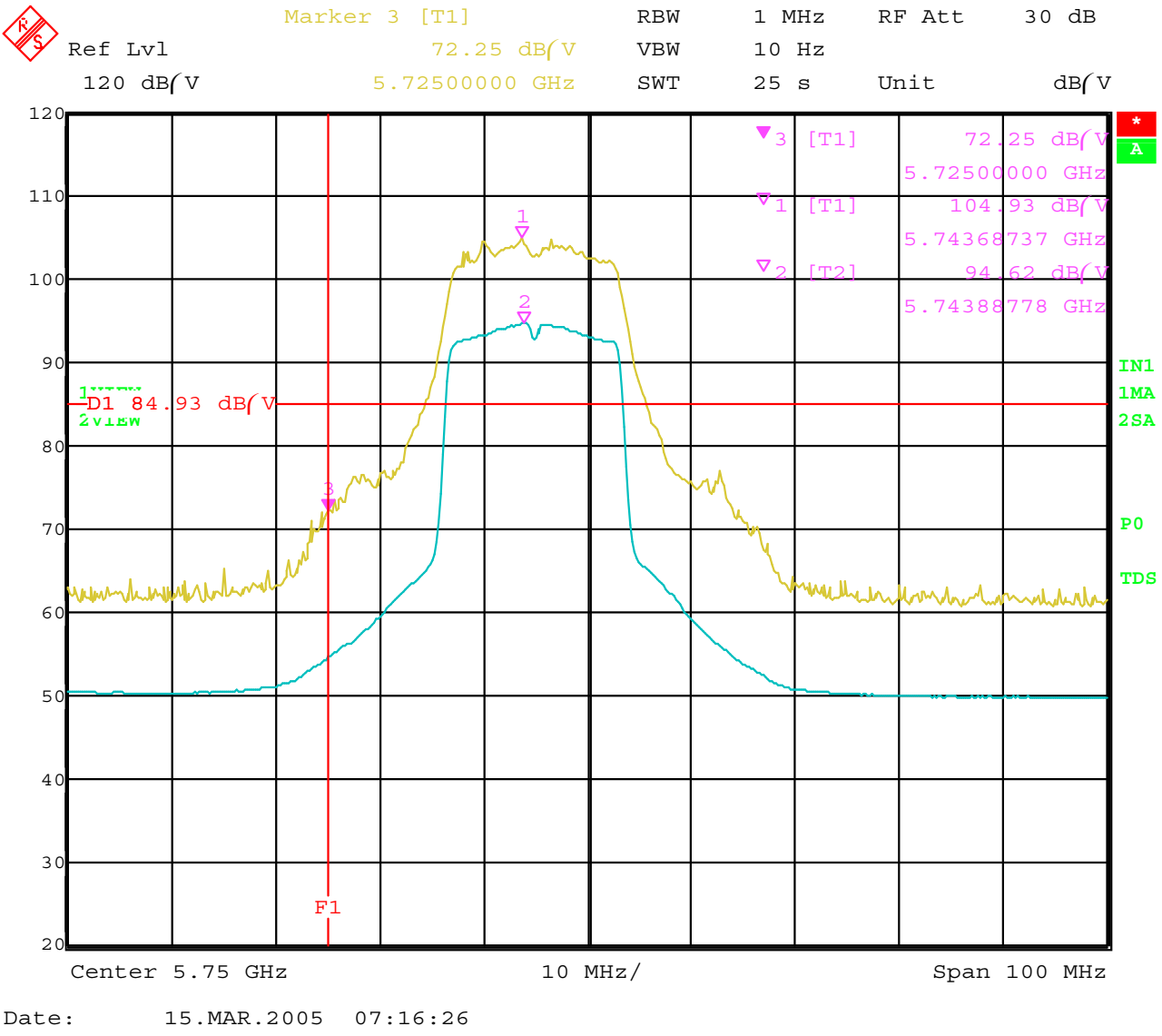
Channel 165 - 802.11 a Mode Gain : 14.5 Peak Power: 20.90 dBm Avg. Power: 15.17 dBm

Transmit Mode

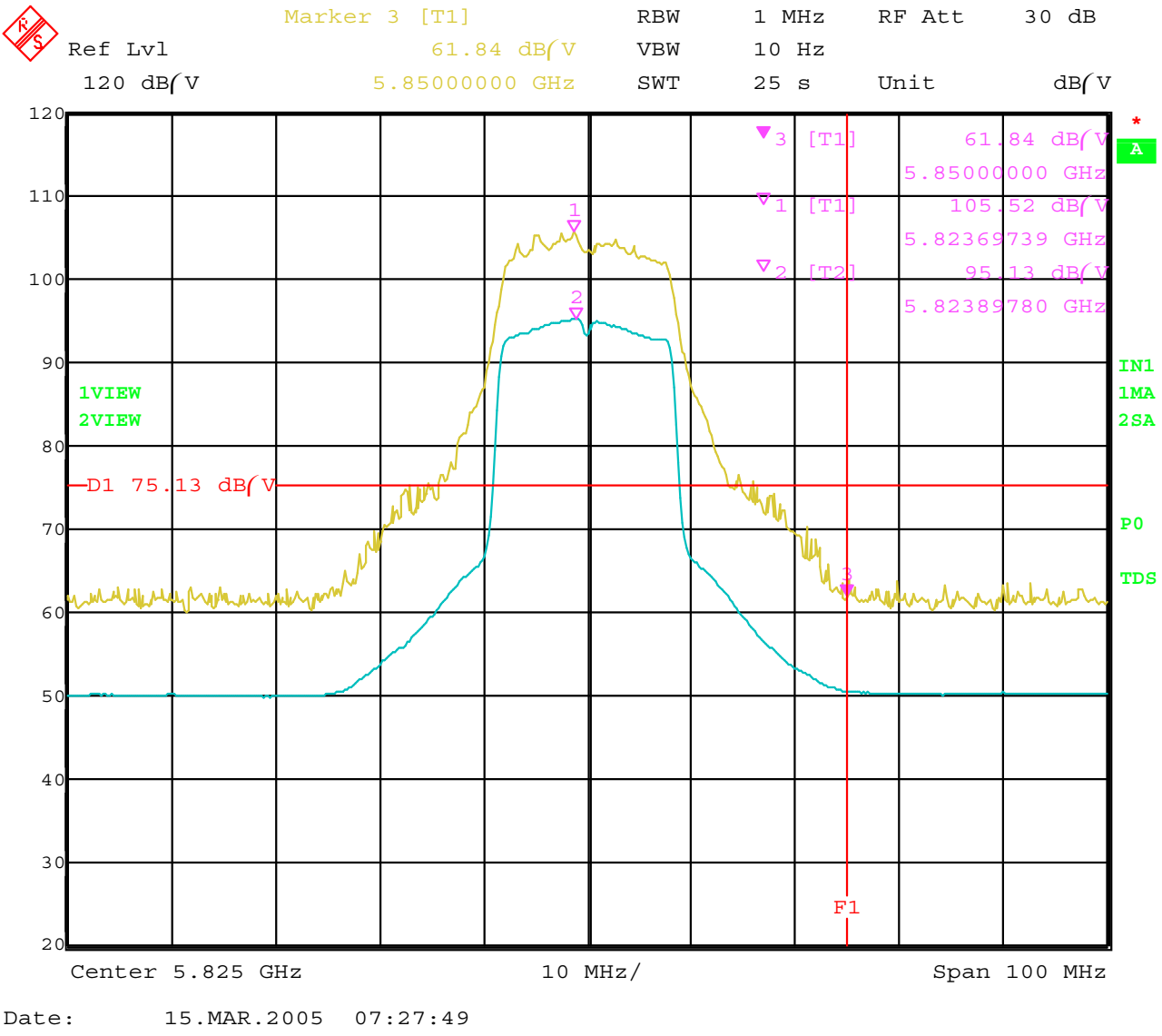
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5745	104.93	H	--	--	Peak	2.16	0	Fundamental of Channel 149
5745	94.62	H	--	--	Avg	2.16	0	@ 3 meters
5785	104.15	H	--	--	Peak	2.15	180	Fundamental of Channel 157
5785	93.79	H	--	--	Avg	2.15	180	@ 3 meters
5825	103.96	H	--	--	Peak	2.17	0	Fundamental of Channel 165
5825	93.55	H	--	--	Avg	2.17	0	@ 3 meters



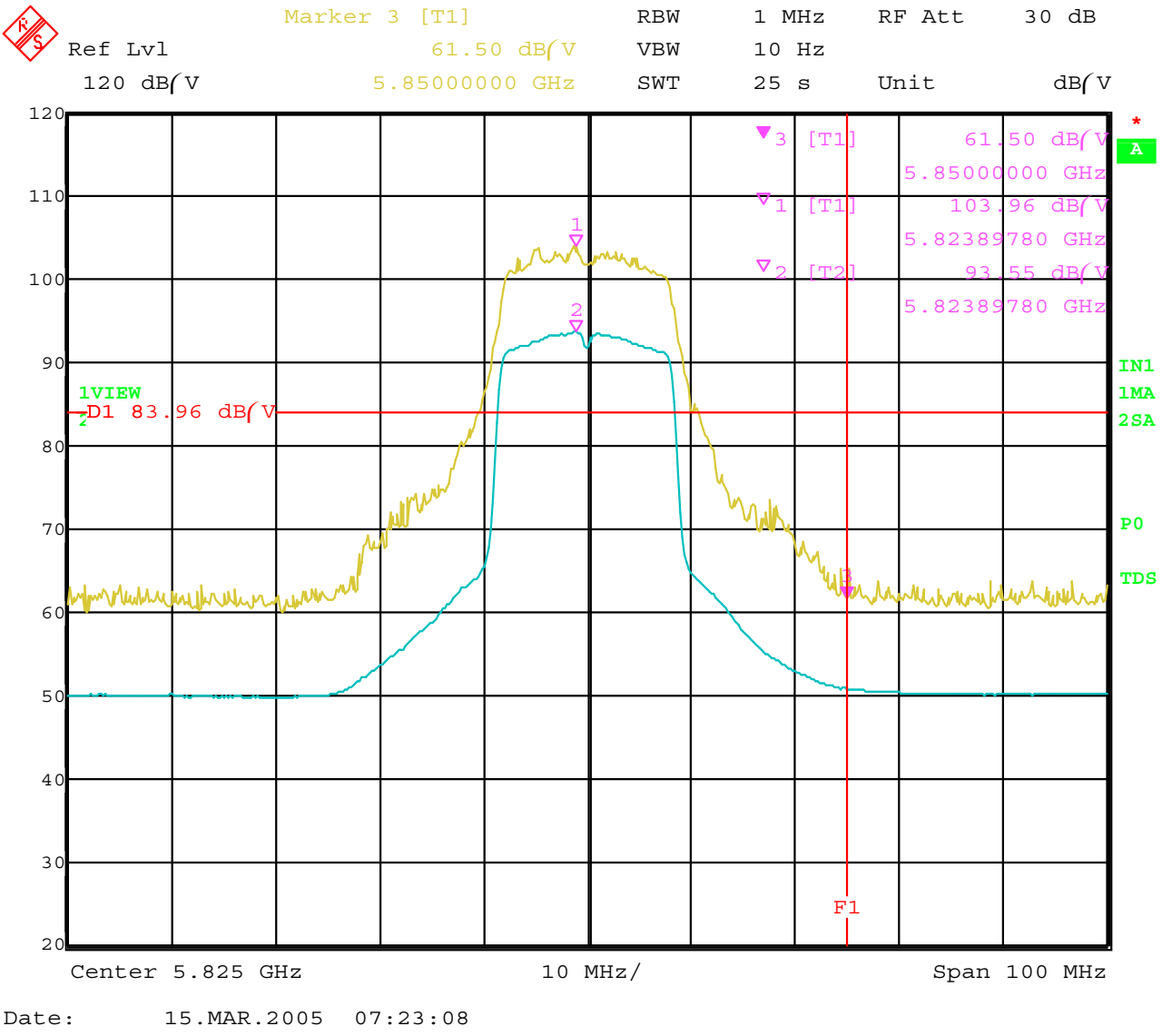
Band Edge – Channel 149 – Vertical Polarization – 802.11 a Mode – Phycomp Antenna



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



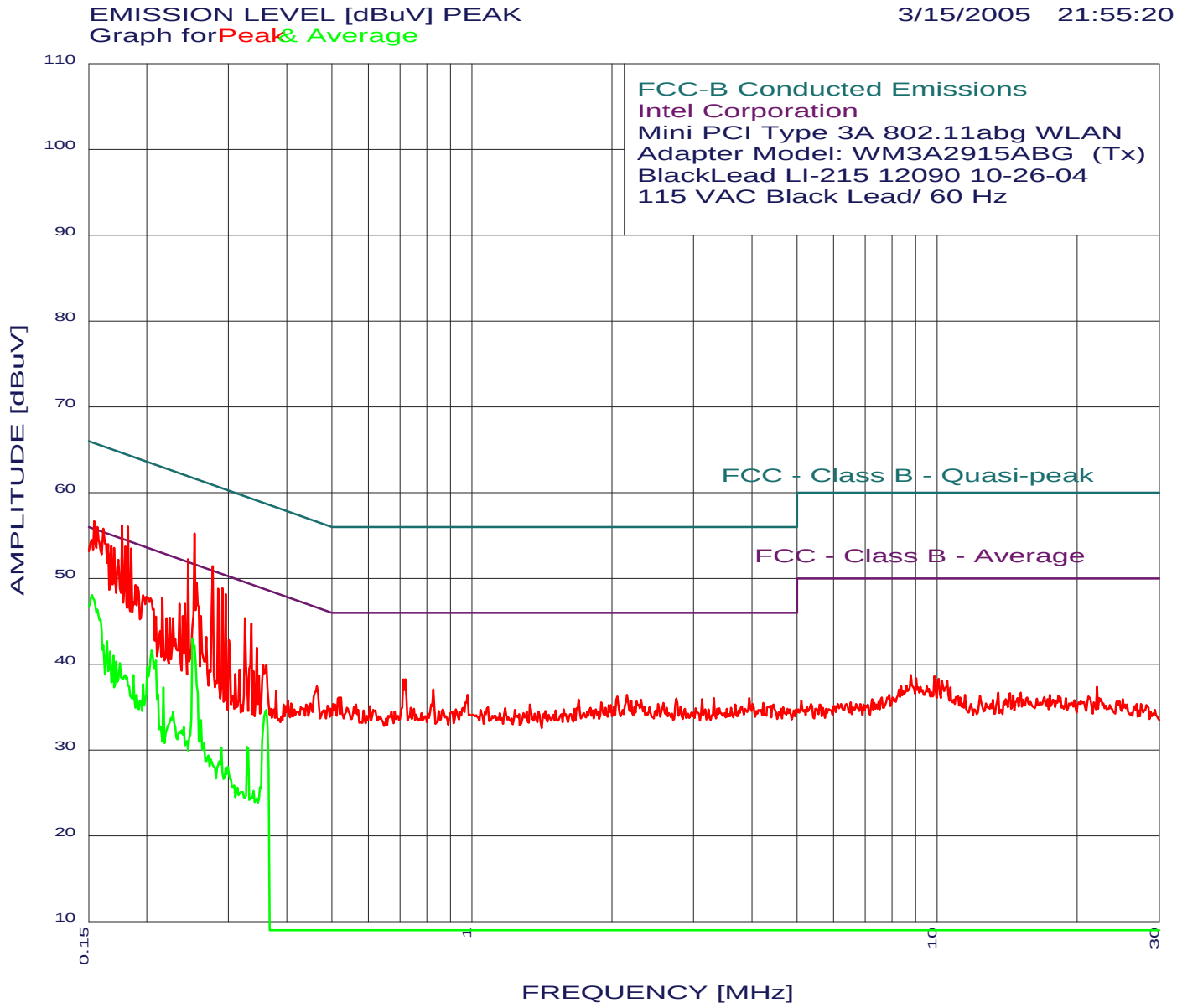
Band Edge – Channel 165 – Vertical Polarization – 802.11 a Mode – Phycomp Antenna



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

CONDUCTED EMISSIONS

DATA SHEETS



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/15/2005 21:55:20

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Transmit Mode)
With Phycomp 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	0.254	55.20	51.64	3.56*
2	0.183	56.05	54.37	1.68*
3	0.177	56.15	54.63	1.52*
4	0.154	56.66	55.78	0.88*
5	0.277	51.38	50.89	0.49*
6	0.162	55.76	55.38	0.37*
7	0.157	55.96	55.64	0.32*
8	0.246	52.21	51.90	0.30*
9	0.180	53.75	54.50	-0.75*
10	0.185	53.45	54.24	-0.79*
11	0.165	53.96	55.20	-1.25*
12	0.168	53.75	55.07	-1.32*
13	0.170	53.55	54.94	-1.39*
14	0.152	54.46	55.86	-1.40*
15	0.291	48.87	50.49	-1.62*
16	0.285	48.78	50.67	-1.90*
17	0.256	49.50	51.55	-2.05*
18	0.296	48.17	50.36	-2.20*
19	0.174	52.15	54.77	-2.61*
20	0.150	53.16	56.00	-2.84*
21	0.325	45.34	49.57	-4.23*
22	0.336	44.74	49.31	-4.57*
23	0.189	49.24	54.06	-4.81*
24	0.192	49.04	53.97	-4.93*
25	0.242	47.01	52.04	-5.03*
26	0.216	47.73	52.96	-5.23*
27	0.235	47.01	52.25	-5.24*
28	0.197	48.04	53.75	-5.71*
29	0.262	45.59	51.38	-5.78*
30	0.239	45.61	52.12	-6.51*
31	0.345	41.93	49.09	-7.16*
32	0.228	45.32	52.52	-7.20*
33	0.224	45.42	52.65	-7.23*
34	0.221	45.32	52.78	-7.46*
35	0.300	42.76	50.23	-7.47*
36	0.210	45.53	53.23	-7.69*
37	0.720	38.19	46.00	-7.81
38	0.713	38.19	46.00	-7.81
39	0.269	43.19	51.15	-7.97*
40	0.362	39.92	48.69	-8.78*

---

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

COMPATIBLE ELECTRONICS

3/15/2005 21:55:20

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Transmit Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

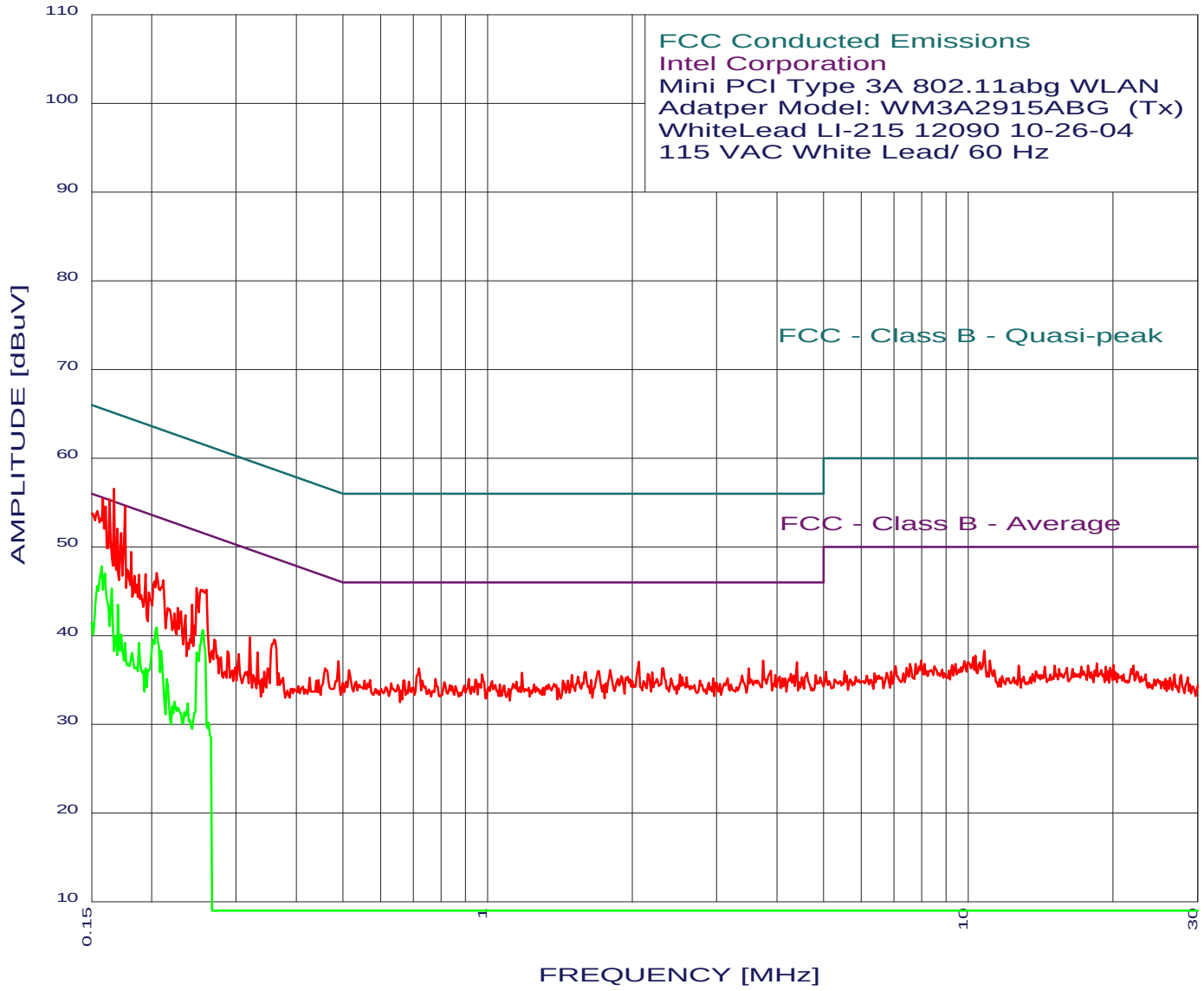
---

41 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	0.152	48.04	55.86	-7.82
2	0.251	42.94	51.73	-8.79
3	0.157	46.36	55.64	-9.28
4	0.150	46.63	56.00	-9.37
5	0.254	42.18	51.64	-9.46
6	0.205	41.61	53.40	-11.79
7	0.164	42.64	55.25	-12.61
8	0.210	40.42	53.23	-12.80
9	0.162	42.17	55.38	-13.22
10	0.167	41.46	55.11	-13.65
11	0.201	39.63	53.58	-13.95
12	0.170	40.96	54.98	-14.02
13	0.362	34.65	48.69	-14.05
14	0.172	40.30	54.86	-14.55
15	0.175	40.11	54.72	-14.61
16	0.187	38.75	54.15	-15.40
17	0.217	37.29	52.91	-15.63
18	0.180	38.75	54.50	-15.75
19	0.182	38.48	54.41	-15.93
20	0.197	37.67	53.75	-16.08
21	0.212	36.44	53.14	-16.70
22	0.190	36.40	54.01	-17.61
23	0.262	33.44	51.38	-17.93
24	0.228	34.46	52.52	-18.06
25	0.194	35.66	53.88	-18.22
26	0.226	33.69	52.61	-18.92
27	0.329	30.34	49.48	-19.14
28	0.240	32.64	52.08	-19.44
29	0.238	32.27	52.17	-19.90
30	0.290	30.23	50.54	-20.31
31	0.214	32.70	53.05	-20.35
32	0.266	30.80	51.24	-20.44
33	0.244	31.04	51.95	-20.91
34	0.272	29.35	51.07	-21.72
35	0.286	28.66	50.63	-21.96
36	0.275	28.91	50.98	-22.07
37	0.299	28.05	50.28	-22.22
38	0.296	27.88	50.36	-22.49
39	0.350	25.64	48.95	-23.31
40	0.339	25.24	49.22	-23.98
41	0.309	25.86	50.01	-24.15

EMISSION LEVEL [dBuV] PEAK
Graph forPeak& Average

3/15/2005 22:08:55



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/15/2005 22:08:55

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
WM3A2915ABG (Transmit Mode)
With Phycomp 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	0.167	56.54	55.11	1.42*
2	0.163	55.34	55.29	0.05*
3	0.158	55.44	55.56	-0.11*
4	0.176	54.53	54.68	-0.14*
5	0.161	54.54	55.43	-0.89*
6	0.154	54.05	55.78	-1.73*
7	0.150	53.75	56.00	-2.25*
8	0.170	52.04	54.98	-2.95*
9	0.173	51.53	54.81	-3.28*
10	0.182	49.43	54.41	-4.98*
11	0.205	47.01	53.40	-6.39*
12	0.248	45.37	51.82	-6.44*
13	0.254	45.17	51.64	-6.47*
14	0.195	46.92	53.84	-6.92*
15	0.212	46.21	53.14	-6.93*
16	0.178	47.43	54.59	-7.16*
17	0.188	46.82	54.10	-7.28*
18	0.184	46.73	54.28	-7.56*
19	0.243	43.48	52.00	-8.52*
20	3.741	37.13	46.00	-8.87
21	0.198	44.82	53.71	-8.89*
22	2.066	37.05	46.00	-8.95
23	4.408	36.99	46.00	-9.01
24	0.489	37.07	46.18	-9.11
25	0.360	39.50	48.73	-9.23
26	0.227	43.09	52.57	-9.48*
27	3.492	36.31	46.00	-9.69
28	0.720	36.30	46.00	-9.70
29	2.322	36.28	46.00	-9.72
30	0.230	42.69	52.43	-9.74*
31	0.216	43.10	52.96	-9.86*
32	0.320	39.81	49.71	-9.90
33	1.800	36.10	46.00	-9.90
34	0.516	36.07	46.00	-9.93
35	3.882	36.05	46.00	-9.95
36	0.235	42.28	52.25	-9.97*
37	1.708	35.98	46.00	-10.02
38	2.201	35.86	46.00	-10.14
39	1.603	35.86	46.00	-10.14
40	0.223	42.50	52.70	-10.20*

---

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

COMPATIBLE ELECTRONICS

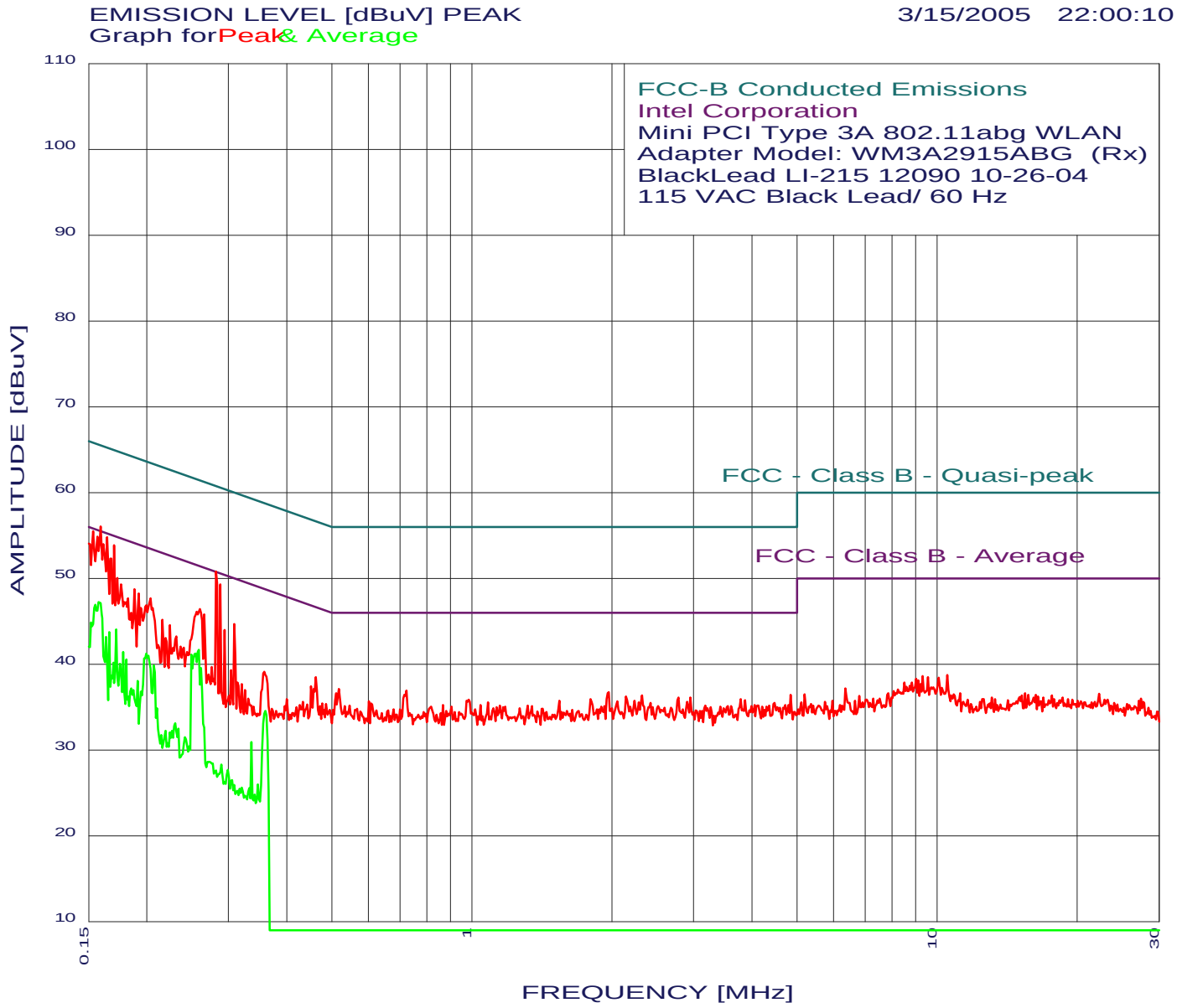
3/15/2005 22:08:55

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
WM3A2915ABG (Transmit Mode)
With Phycomp 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	0.157	47.78	55.60	-7.82
2	0.160	46.94	55.47	-8.53
3	0.165	45.29	55.20	-9.91
4	0.154	45.59	55.78	-10.19
5	0.256	40.56	51.55	-10.99
6	0.170	43.48	54.94	-11.47
7	0.205	40.93	53.40	-12.47
8	0.248	38.12	51.82	-13.69
9	0.202	39.52	53.53	-14.02
10	0.150	41.41	56.00	-14.59
11	0.173	40.10	54.81	-14.71
12	0.210	38.28	53.23	-14.95
13	0.188	39.15	54.10	-14.95
14	0.169	39.89	55.03	-15.14
15	0.176	39.16	54.68	-15.51
16	0.183	38.03	54.37	-16.34
17	0.195	36.31	53.84	-17.53
18	0.179	36.80	54.54	-17.74
19	0.186	36.43	54.19	-17.77
20	0.215	35.09	53.00	-17.91
21	0.193	35.97	53.93	-17.95
22	0.238	32.34	52.17	-19.83
23	0.223	32.56	52.70	-20.14
24	0.227	31.87	52.57	-20.70
25	0.221	31.95	52.78	-20.84
26	0.234	31.36	52.30	-20.94
27	0.263	30.17	51.33	-21.16
28	0.240	30.45	52.08	-21.63



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/15/2005 22:00:10

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Receive Mode)
With Phycomp 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	0.159	56.06	55.51	0.54*
2	0.282	50.78	50.76	0.02*
3	0.153	55.46	55.82	-0.36*
4	0.164	54.76	55.25	-0.49*
5	0.157	54.86	55.64	-0.78*
6	0.170	53.85	54.94	-1.09*
7	0.288	49.27	50.58	-1.31*
8	0.162	53.96	55.38	-1.43*
9	0.150	54.06	56.00	-1.94*
10	0.167	52.25	55.11	-2.86*
11	0.173	50.05	54.81	-4.76*
12	0.260	46.39	51.42	-5.03*
13	0.309	44.66	50.01	-5.35*
14	0.188	48.75	54.10	-5.36*
15	0.176	49.25	54.68	-5.42*
16	0.266	45.79	51.24	-5.45*
17	0.193	48.24	53.93	-5.68*
18	0.204	47.64	53.44	-5.81*
19	0.294	43.97	50.41	-6.44*
20	0.195	46.54	53.84	-7.30*
21	0.216	45.13	52.96	-7.83*
22	0.224	44.52	52.65	-8.13*
23	0.461	38.48	46.67	-8.19
24	0.518	37.07	46.00	-8.93
25	0.724	36.89	46.00	-9.11
26	0.232	43.22	52.39	-9.17*
27	1.971	36.71	46.00	-9.29
28	0.510	36.57	46.00	-9.43
29	0.452	37.38	46.85	-9.46
30	4.851	36.40	46.00	-9.60
31	2.322	36.35	46.00	-9.65
32	0.358	39.12	48.78	-9.66*
33	2.145	36.24	46.00	-9.76
34	0.220	43.02	52.83	-9.80*
35	2.948	36.12	46.00	-9.88
36	2.781	36.10	46.00	-9.90
37	3.781	35.90	46.00	-10.10
38	1.800	35.88	46.00	-10.12
39	0.240	41.91	52.08	-10.17*
40	0.984	35.82	46.00	-10.18

---

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

COMPATIBLE ELECTRONICS

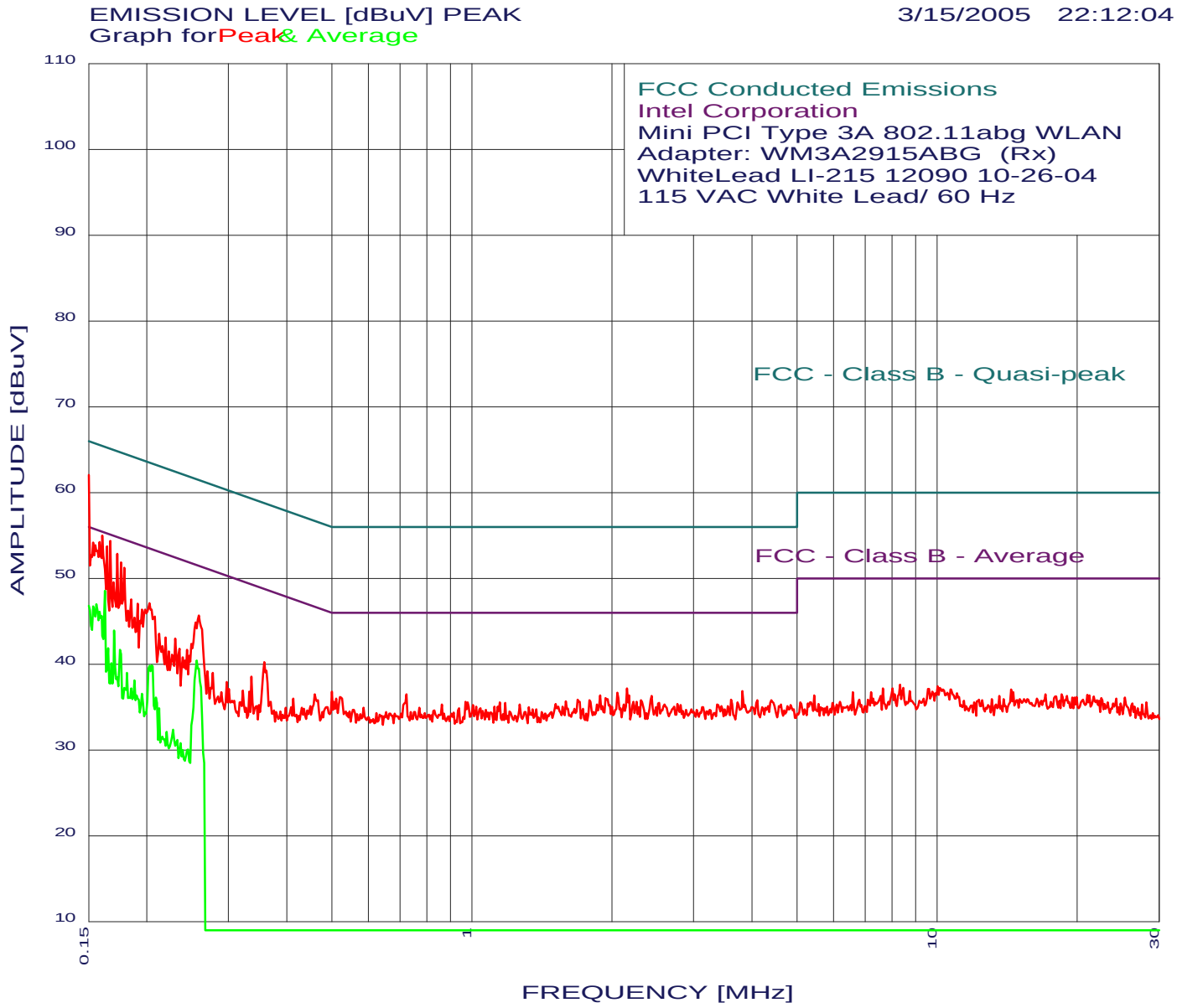
3/15/2005 22:00:10

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Receive Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

---

41 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	0.157	47.20	55.60	-8.40
2	0.155	46.91	55.73	-8.82
3	0.259	41.63	51.47	-9.83
4	0.255	41.19	51.60	-10.41
5	0.250	41.12	51.77	-10.65
6	0.172	44.04	54.86	-10.81
7	0.152	44.84	55.91	-11.07
8	0.166	43.74	55.16	-11.41
9	0.262	39.55	51.38	-11.82
10	0.163	43.16	55.29	-12.14
11	0.200	41.23	53.62	-12.39
12	0.202	40.97	53.53	-12.56
13	0.178	41.42	54.59	-13.17
14	0.207	39.86	53.31	-13.45
15	0.181	40.52	54.46	-13.94
16	0.150	42.05	56.00	-13.95
17	0.360	34.52	48.73	-14.22
18	0.175	40.00	54.72	-14.72
19	0.170	40.13	54.98	-14.85
20	0.192	38.05	53.97	-15.92
21	0.168	38.68	55.07	-16.39
22	0.195	36.79	53.84	-17.05
23	0.185	37.17	54.24	-17.07
24	0.187	36.98	54.15	-17.17
25	0.183	36.19	54.37	-18.18
26	0.211	34.83	53.18	-18.35
27	0.336	30.93	49.31	-18.38
28	0.230	33.12	52.43	-19.32
29	0.234	32.48	52.30	-19.81
30	0.227	32.25	52.57	-20.32
31	0.242	31.46	52.04	-20.58
32	0.224	32.04	52.65	-20.61
33	0.220	32.21	52.83	-20.61
34	0.215	31.75	53.00	-21.26
35	0.247	30.38	51.86	-21.48
36	0.222	30.77	52.74	-21.97
37	0.290	28.28	50.54	-22.26
38	0.270	28.59	51.11	-22.52
39	0.299	27.64	50.28	-22.63
40	0.347	25.99	49.04	-23.06
41	0.282	27.57	50.76	-23.19



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/15/2005 22:12:04

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Receive Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

---

41 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	0.150	62.05	56.00	6.05*
2	0.161	54.94	55.43	-0.49*
3	0.167	54.34	55.11	-0.78*
4	0.158	54.24	55.56	-1.31*
5	0.164	53.74	55.25	-1.51*
6	0.153	54.15	55.82	-1.67*
7	0.155	53.85	55.73	-1.89*
8	0.173	52.83	54.81	-1.98*
9	0.176	51.83	54.68	-2.84*
10	0.179	51.23	54.54	-3.31*
11	0.170	49.54	54.98	-5.45*
12	0.259	45.66	51.47	-5.80
13	0.203	47.11	53.49	-6.37*
14	0.185	47.53	54.24	-6.71*
15	0.192	47.02	53.97	-6.95*
16	0.196	46.32	53.80	-7.48*
17	0.183	46.23	54.37	-8.14*
18	0.358	40.20	48.78	-8.58
19	0.188	45.42	54.10	-8.68*
20	2.156	37.16	46.00	-8.84
21	3.820	36.84	46.00	-9.16
22	0.500	36.77	46.01	-9.23
23	2.055	36.65	46.00	-9.35
24	0.230	42.99	52.43	-9.44*
25	0.724	36.50	46.00	-9.50
26	0.213	43.51	53.09	-9.59*
27	1.889	36.32	46.00	-9.68
28	2.436	36.29	46.00	-9.71
29	0.220	43.10	52.83	-9.73*
30	0.521	36.17	46.00	-9.83
31	1.939	36.03	46.00	-9.97
32	0.510	35.97	46.00	-10.03
33	1.690	35.87	46.00	-10.13
34	3.605	35.82	46.00	-10.18
35	1.790	35.79	46.00	-10.21
36	4.408	35.79	46.00	-10.21
37	4.114	35.78	46.00	-10.22
38	2.310	35.77	46.00	-10.23
39	0.459	36.48	46.71	-10.23
40	0.244	41.68	51.95	-10.27*

---

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

COMPATIBLE ELECTRONICS

3/15/2005 22:12:04

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Receive Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

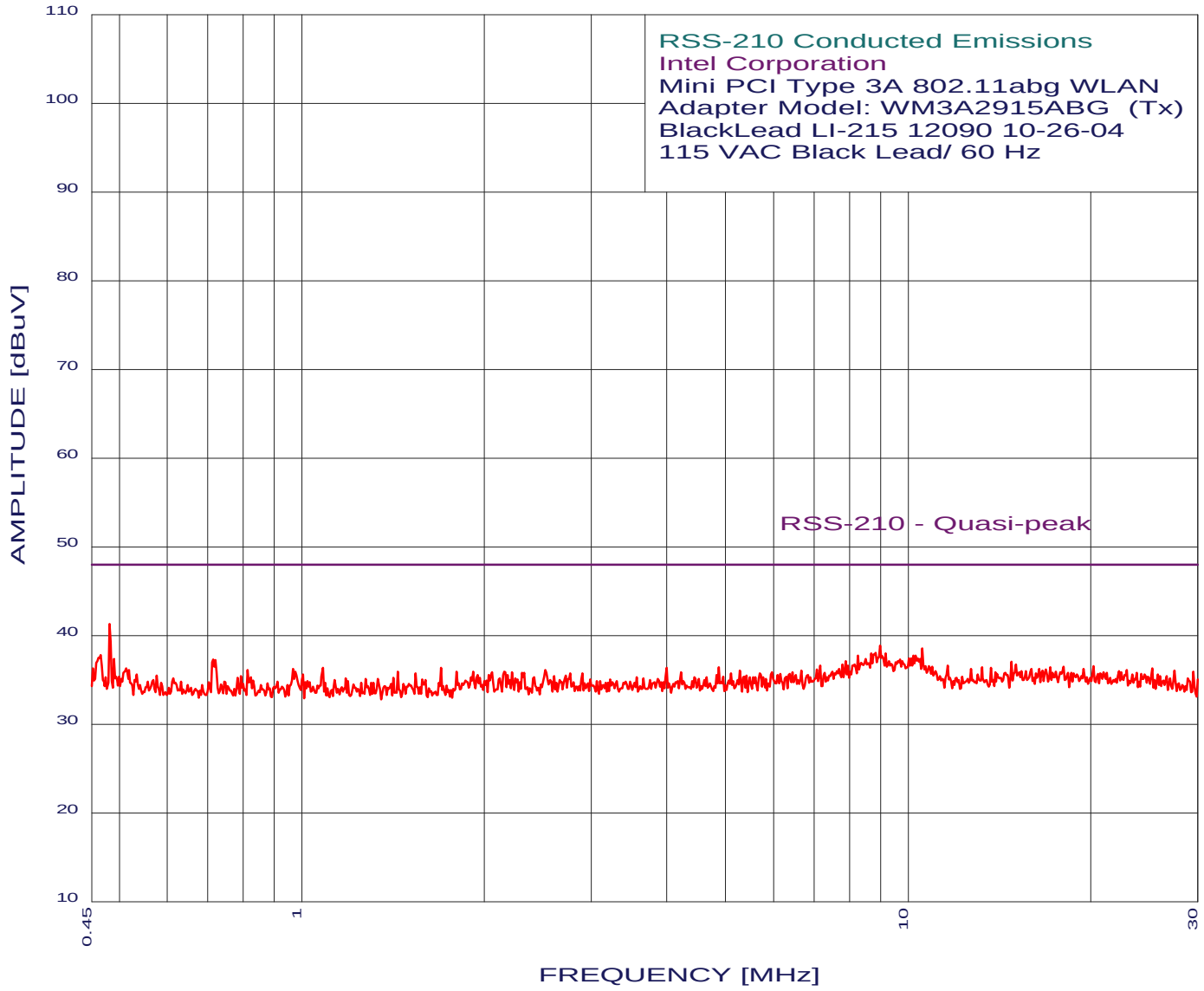
---

30 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	0.162	48.52	55.34	-6.82
2	0.156	46.99	55.69	-8.69
3	0.153	46.74	55.82	-9.08
4	0.150	46.80	56.00	-9.20
5	0.158	46.09	55.56	-9.46
6	0.160	45.60	55.47	-9.87
7	0.170	43.94	54.94	-11.01
8	0.256	40.41	51.55	-11.14
9	0.175	41.68	54.72	-13.04
10	0.165	41.87	55.20	-13.33
11	0.205	39.84	53.40	-13.56
12	0.203	39.76	53.49	-13.72
13	0.168	40.12	55.07	-14.95
14	0.182	39.00	54.41	-15.41
15	0.188	38.12	54.10	-15.98
16	0.173	38.49	54.81	-16.32
17	0.185	37.15	54.24	-17.09
18	0.210	36.11	53.23	-17.12
19	0.196	36.55	53.80	-17.25
20	0.179	37.19	54.54	-17.35
21	0.190	36.37	54.01	-17.64
22	0.213	34.84	53.09	-18.26
23	0.199	34.32	53.67	-19.35
24	0.228	32.35	52.52	-20.17
25	0.221	32.11	52.78	-20.68
26	0.233	31.16	52.34	-21.19
27	0.216	31.56	52.96	-21.40
28	0.237	30.77	52.21	-21.44
29	0.246	30.00	51.90	-21.90
30	0.239	29.97	52.12	-22.15

EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/15/2005 22:04:19



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/15/2005 22:04:19

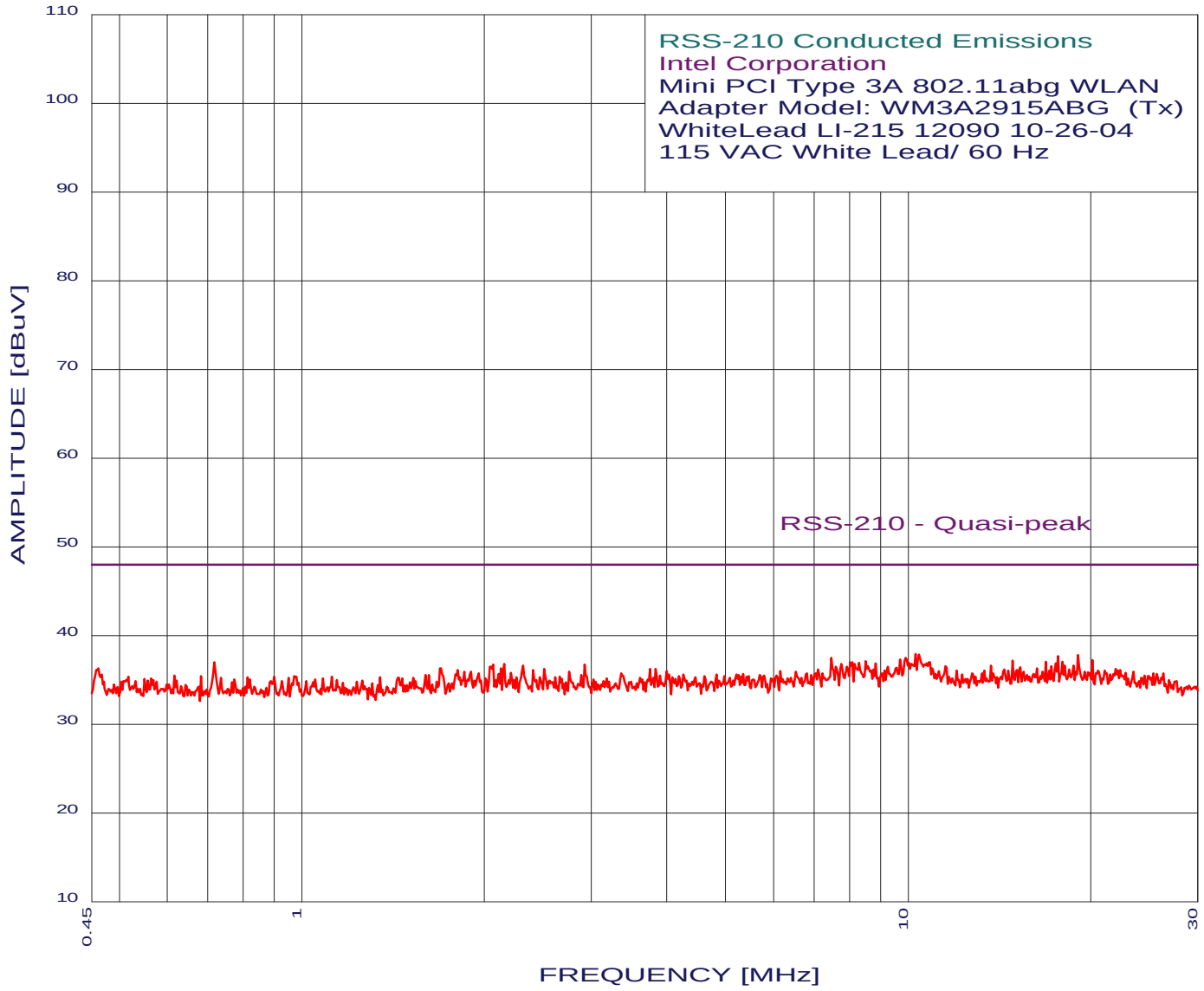
Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Transmit Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

---

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	0.481	41.28	48.00	-6.72
2	8.990	38.86	48.00	-9.14
3	10.546	38.54	48.00	-9.46
4	8.841	38.05	48.00	-9.95
5	9.181	37.97	48.00	-10.03
6	8.693	37.95	48.00	-10.05
7	0.466	37.78	48.00	-10.22
8	10.284	37.73	48.00	-10.27
9	8.266	37.73	48.00	-10.27
10	0.490	37.37	48.00	-10.63
11	0.715	37.29	48.00	-10.71
12	7.894	37.11	48.00	-10.89
13	14.815	37.03	48.00	-10.97
14	15.071	36.75	48.00	-11.25
15	7.794	36.70	48.00	-11.30
16	11.617	36.62	48.00	-11.38
17	7.960	36.61	48.00	-11.39
18	7.166	36.57	48.00	-11.43
19	20.221	36.53	48.00	-11.47
20	18.054	36.45	48.00	-11.55
21	13.228	36.42	48.00	-11.58
22	4.870	36.41	48.00	-11.59
23	17.166	36.39	48.00	-11.61
24	1.697	36.36	48.00	-11.64
25	13.684	36.35	48.00	-11.65
26	1.083	36.34	48.00	-11.66
27	3.996	36.32	48.00	-11.68
28	25.261	36.31	48.00	-11.69
29	0.452	36.28	48.00	-11.72
30	0.513	36.27	48.00	-11.73
31	19.465	36.24	48.00	-11.76
32	16.457	36.24	48.00	-11.76
33	0.966	36.22	48.00	-11.78
34	15.984	36.21	48.00	-11.79
35	12.685	36.19	48.00	-11.81
36	16.881	36.17	48.00	-11.83
37	7.077	36.17	48.00	-11.83
38	22.929	36.12	48.00	-11.88
39	0.814	36.10	48.00	-11.90
40	0.519	36.07	48.00	-11.93
41	0.450	34.28	48.00	-13.72

EMISSION LEVEL [dBuV] PEAK 3/15/2005 22:15:13
Graph forPeak



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/15/2005 22:15:13

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
WM3A2915ABG (Transmit Mode)
With Phycomp Antenna
TEST ENGINEER :Benigno Chavez

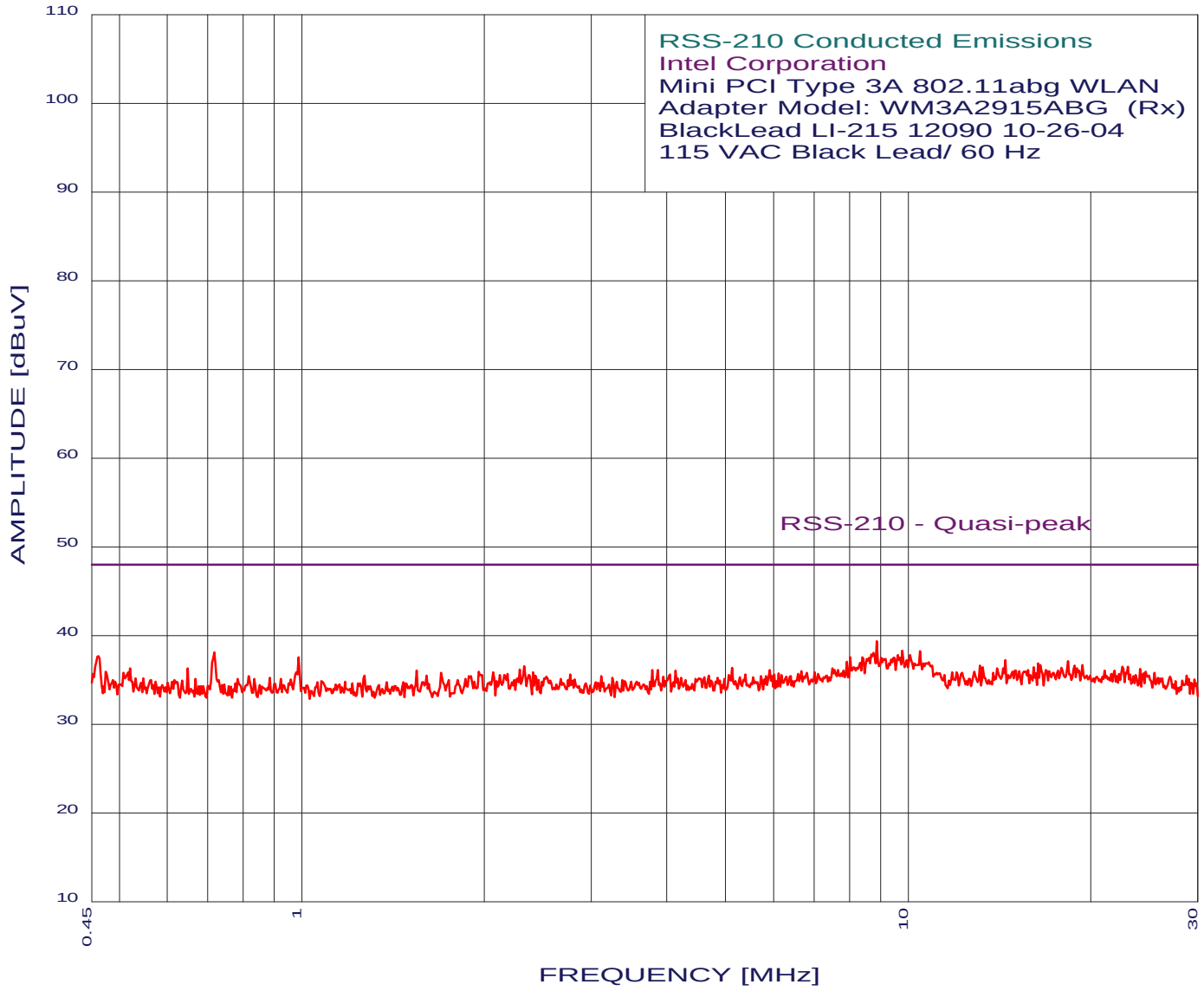
---

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	10.284	37.92	48.00	-10.08
2	10.415	37.83	48.00	-10.17
3	19.067	37.79	48.00	-10.21
4	17.678	37.69	48.00	-10.31
5	9.903	37.49	48.00	-10.51
6	7.474	37.45	48.00	-10.55
7	9.696	37.28	48.00	-10.72
8	20.137	37.25	48.00	-10.75
9	14.879	37.17	48.00	-10.83
10	8.512	37.11	48.00	-10.89
11	16.881	37.02	48.00	-10.98
12	17.979	37.01	48.00	-10.99
13	0.718	37.00	48.00	-11.00
14	8.093	36.99	48.00	-11.01
15	8.302	36.90	48.00	-11.10
16	8.841	36.83	48.00	-11.17
17	7.761	36.77	48.00	-11.23
18	2.156	36.76	48.00	-11.24
19	2.067	36.75	48.00	-11.25
20	2.930	36.74	48.00	-11.26
21	18.130	36.62	48.00	-11.38
22	13.684	36.58	48.00	-11.42
23	2.315	36.57	48.00	-11.43
24	18.749	36.57	48.00	-11.43
25	17.238	36.55	48.00	-11.45
26	11.519	36.51	48.00	-11.49
27	7.927	36.48	48.00	-11.52
28	7.600	36.46	48.00	-11.54
29	9.259	36.45	48.00	-11.55
30	15.327	36.41	48.00	-11.59
31	16.322	36.28	48.00	-11.72
32	0.462	36.28	48.00	-11.72
33	1.697	36.28	48.00	-11.72
34	2.129	36.25	48.00	-11.75
35	3.833	36.24	48.00	-11.76
36	3.753	36.24	48.00	-11.76
37	21.992	36.23	48.00	-11.77
38	2.508	36.20	48.00	-11.80
39	14.391	36.13	48.00	-11.87
40	7.107	36.13	48.00	-11.87
41	0.450	33.48	48.00	-14.52

EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/15/2005 22:02:26



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/15/2005 22:02:26

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
WM3A2915ABG (Receive Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

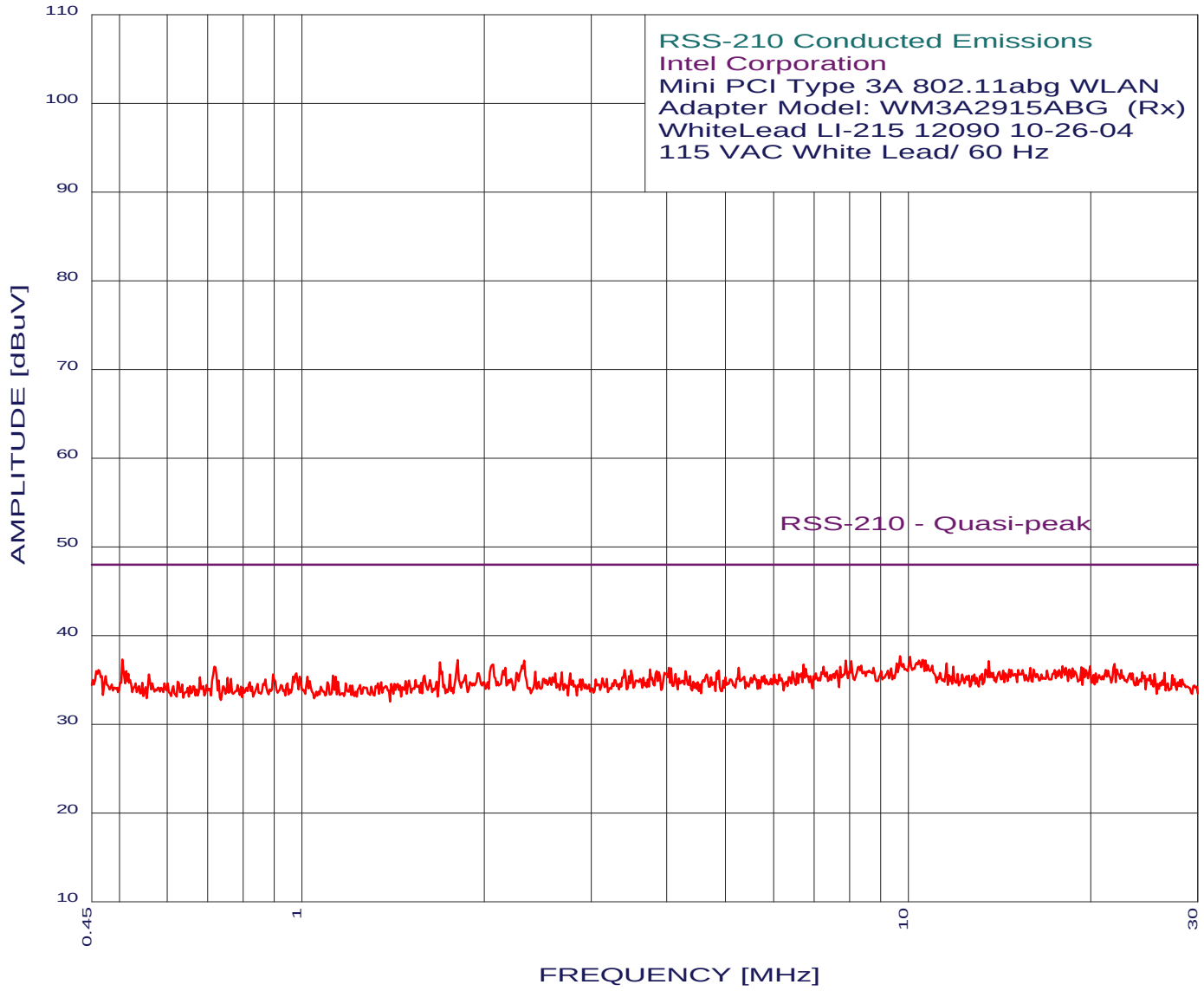
---

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	8.879	39.35	48.00	-8.65
2	9.779	38.30	48.00	-9.70
3	10.459	38.24	48.00	-9.76
4	0.718	38.09	48.00	-9.91
5	8.767	38.05	48.00	-9.95
6	10.068	37.81	48.00	-10.19
7	9.614	37.79	48.00	-10.21
8	0.462	37.68	48.00	-10.32
9	8.407	37.53	48.00	-10.47
10	0.987	37.52	48.00	-10.48
11	8.027	37.51	48.00	-10.49
12	9.494	37.48	48.00	-10.52
13	14.452	37.21	48.00	-10.79
14	18.356	37.07	48.00	-10.93
15	7.927	37.01	48.00	-10.99
16	16.389	36.84	48.00	-11.16
17	16.524	36.65	48.00	-11.35
18	19.386	36.64	48.00	-11.36
19	13.120	36.62	48.00	-11.38
20	18.829	36.60	48.00	-11.40
21	2.325	36.55	48.00	-11.45
22	22.554	36.49	48.00	-11.51
23	23.028	36.47	48.00	-11.53
24	13.283	36.43	48.00	-11.57
25	16.119	36.42	48.00	-11.58
26	17.904	36.34	48.00	-11.66
27	5.122	36.33	48.00	-11.67
28	18.988	36.31	48.00	-11.69
29	0.649	36.29	48.00	-11.71
30	14.028	36.28	48.00	-11.72
31	0.521	36.27	48.00	-11.73
32	24.117	36.24	48.00	-11.76
33	2.287	36.15	48.00	-11.85
34	5.907	36.11	48.00	-11.89
35	3.866	36.11	48.00	-11.89
36	3.784	36.10	48.00	-11.90
37	15.782	36.10	48.00	-11.90
38	16.881	36.07	48.00	-11.93
39	15.071	36.05	48.00	-11.95
40	4.134	36.03	48.00	-11.97
41	0.450	34.68	48.00	-13.32

EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/15/2005 22:13:10



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/15/2005 22:13:10

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
WM3A2915ABG (Receive Mode)
With Phycomp 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	9.696	37.68	48.00	-10.32
2	10.068	37.60	48.00	-10.40
3	0.506	37.27	48.00	-10.73
4	10.589	37.24	48.00	-10.76
5	1.808	37.20	48.00	-10.80
6	2.325	37.18	48.00	-10.82
7	7.894	37.18	48.00	-10.82
8	10.677	37.15	48.00	-10.85
9	8.060	37.08	48.00	-10.92
10	13.569	37.07	48.00	-10.93
11	1.690	36.97	48.00	-11.03
12	11.568	36.82	48.00	-11.18
13	21.898	36.79	48.00	-11.21
14	2.067	36.75	48.00	-11.25
15	6.729	36.71	48.00	-11.29
16	8.372	36.60	48.00	-11.40
17	19.969	36.55	48.00	-11.45
18	17.979	36.51	48.00	-11.49
19	0.718	36.50	48.00	-11.50
20	7.728	36.47	48.00	-11.53
21	7.256	36.44	48.00	-11.56
22	11.860	36.44	48.00	-11.56
23	19.306	36.39	48.00	-11.61
24	4.031	36.37	48.00	-11.63
25	2.165	36.36	48.00	-11.64
26	15.917	36.35	48.00	-11.65
27	5.250	36.32	48.00	-11.68
28	19.465	36.28	48.00	-11.72
29	4.065	36.27	48.00	-11.73
30	18.670	36.26	48.00	-11.74
31	9.377	36.26	48.00	-11.74
32	6.786	36.21	48.00	-11.79
33	22.086	36.17	48.00	-11.83
34	16.119	36.17	48.00	-11.83
35	14.694	36.16	48.00	-11.84
36	3.753	36.14	48.00	-11.86
37	21.179	36.12	48.00	-11.88
38	15.455	36.12	48.00	-11.88
39	22.461	36.11	48.00	-11.89
40	3.407	36.10	48.00	-11.90
41	0.450	34.38	48.00	-13.62
