

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.247

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AB-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	41.96	V	74	-32.04	Peak	2.73	270	
4824	36.26	V	54	-17.74	Avg	2.73	270	
7236	40.3	V	74	-33.7	Peak	2.12	90	
7236	27.75	V	54	-26.25	Avg	2.12	90	
9648	48.71	V	--	--	Peak	2.16	270	Not in Restricted Band
9648	39.31	V	--	--	Avg	2.16	270	Not in Restricted Band
12060	44.69	V	74	-29.31	Peak	2.16	90	
12060	31.9	V	54	-22.1	Avg	2.16	90	
14472	51.75	V	74	-22.25	Peak	2.16	270	
14472	37.52	V	54	-16.48	Avg	2.16	270	
16884	48.21	V	--	--	Peak	2.16	135	Not in Restricted Band
16884	35	V	--	--	Avg	2.16	135	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

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DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AB-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	42.7	H	74	-31.3	Peak	2.71	225	
4824	36.33	H	54	-17.67	Avg	2.71	225	
7236	40.17	H	74	-33.83	Peak	2.71	180	
7236	27.62	H	54	-26.38	Avg	2.71	180	
9648	48.26	H	--	--	Peak	2.42	180	Not in Restricted Band
9648	40.35	H	--	--	Avg	2.42	180	Not in Restricted Band
12060	45.26	H	74	-28.74	Peak	2.13	225	
12060	32.36	H	54	-21.64	Avg	2.13	225	
14472	49.13	H	74	-24.87	Peak	1.92	225	
14472	36.67	H	54	-17.33	Avg	1.92	225	
16884	46.99	H	--	--	Peak	1.92	225	Not in Restricted Band
16884	34.23	H	--	--	Avg	1.92	225	Not in Restricted Band
19296		H	74	-74	Peak			No Emissions
19296		H	54	-54	Avg			Detected
21708		H	--	--	Peak			No Emissions
21708		H	--	--	Avg			Detected
24120		H	--	--	Peak			No Emissions
24120		H	--	--	Avg			Detected

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DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AB-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	40.99	V	74	-33.01	Peak	2.34	135	
4874	36.38	V	54	-17.62	Avg	2.34	135	
7311	41.03	V	74	-32.97	Peak	1.77	315	
7311	27.51	V	54	-26.49	Avg	1.77	315	
9748	48.41	V	--	--	Peak	2.26	225	Not in Restricted Band
9748	41.54	V	--	--	Avg	2.26	225	Not in Restricted Band
12185	45.54	V	74	-28.46	Peak	1.83	270	
12185	32.56	V	54	-21.44	Avg	1.83	270	
14622	50.27	V	--	--	Peak	1.63	135	Not in Restricted Band
14622	35.68	V	--	--	Avg	1.63	135	Not in Restricted Band
17059	49.1	V	--	--	Peak	1.63	315	Not in Restricted Band
17059	36.18	V	--	--	Avg	1.63	315	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

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DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AB-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	41.48	H	74	-32.52	Peak	2.66	225	
4874	34.65	H	54	-19.35	Avg	2.66	225	
7311	39.67	H	74	-34.33	Peak	2.05	315	
7311	27.11	H	54	-26.89	Avg	2.05	315	
9748	47.53	H	--	--	Peak	2.76	180	Not in Restricted Band
9748	34.76	H	--	--	Avg	2.76	180	Not in Restricted Band
12185	44.62	H	74	-29.38	Peak	2.76	180	
12185	32.35	H	54	-21.65	Avg	2.76	180	
14622	48.61	H	--	--	Peak	2.76	180	Not in Restricted Band
14622	35.9	H	--	--	Avg	2.76	180	Not in Restricted Band
17059	47.19	H	--	--	Peak	2.39	270	Not in Restricted Band
17059	35.59	H	--	--	Avg	2.39	270	Not in Restricted Band
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

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Airborne WLN-B Module

Model: ABDB-AB-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

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Lab: B

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	43.93	V	74	-30.07	Peak	2.14	135	
4924	39.2	V	54	-14.8	Avg	2.14	135	
7386	41.04	V	74	-32.96	Peak	1.88	180	
7386	26.71	V	54	-27.29	Avg	1.88	180	
9848	48.15	V	--	--	Peak	2.03	270	Not in Restricted Band
9848	40.94	V	--	--	Avg	2.03	270	Not in Restricted Band
12310	45.18	V	74	-28.82	Peak	2.03	180	
12310	31.83	V	54	-22.17	Avg	2.03	180	
14772	48.31	V	--	--	Peak	1.77	90	Not in Restricted Band
14772	35.57	V	--	--	Avg	1.77	90	Not in Restricted Band
17234	51.55	V	--	--	Peak	1.77	225	Not in Restricted Band
17234	37	V	--	--	Avg	1.77	225	Not in Restricted Band
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	43.43	H	74	-30.57	Peak	2.92	270	
4924	39.12	H	54	-14.88	Avg	2.92	270	
7386	40.95	H	74	-33.05	Peak	2.92	135	
7386	26.58	H	54	-27.42	Avg	2.92	135	
9848	47.14	H	--	--	Peak	2.84	315	Not in Restricted Band
9848	37.5	H	--	--	Avg	2.84	315	Not in Restricted Band
12310	43.89	H	74	-30.11	Peak	1.99	315	
12310	30.98	H	54	-23.02	Avg	1.99	315	
14772	48.87	H	--	--	Peak	1.99	180	Not in Restricted Band
14772	36.67	H	--	--	Avg	1.99	180	Not in Restricted Band
17234	48.59	H	--	--	Peak	1.99	270	Not in Restricted Band
17234	36.12	H	--	--	Avg	1.99	270	Not in Restricted Band
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

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DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/14/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	43.67	V	74	-30.33	Peak	1.72	135	
4824	38.26	V	54	-15.74	Avg	1.72	135	
7236	43.49	V	74	-30.51	Peak	2.3	225	
7236	29.19	V	54	-24.81	Avg	2.3	225	
9648	48.54	V	--	--	Peak	2.3	135	Not in Restricted Band
9648	38.27	V	--	--	Avg	2.3	135	Not in Restricted Band
12060	46.01	V	74	-27.99	Peak	1.31	225	
12060	33.32	V	54	-20.68	Avg	1.31	225	
14472	51.51	V	74	-22.49	Peak	1.31	45	
14472	37.7	V	54	-16.3	Avg	1.31	45	
16884	49.83	V	--	--	Peak	1.65	225	Not in Restricted Band
16884	34.85	V	--	--	Avg	1.65	225	Not in Restricted Band
19296		V	74	-74	Peak			No Emissions
19296		V	54	-54	Avg			Detected
21708		V	--	--	Peak			No Emissions
21708		V	--	--	Avg			Detected
24120		V	--	--	Peak			No Emissions
24120		V	--	--	Avg			Detected

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Date: 4/14/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	45.27	H	74	-28.73	Peak	1.87	135	
4824	37.96	H	54	-16.04	Avg	1.87	135	
7236	39.7	H	74	-34.3	Peak	1.87	270	
7236	27.3	H	54	-26.7	Avg	1.87	270	
9648	45.45	H	--	--	Peak	1.87	315	Not in Restricted Band
9648	33.54	H	--	--	Avg	1.87	315	Not in Restricted Band
12060	45.3	H	74	-28.7	Peak	2.12	270	
12060	32.27	H	54	-21.73	Avg	2.12	270	
14472	51.24	H	74	-22.76	Peak	2.12	225	
14472	35.76	H	54	-18.24	Avg	2.12	225	
16884	47.13	H	--	--	Peak	1.74	270	Not in Restricted Band
16884	34.38	H	--	--	Avg	1.74	270	Not in Restricted Band
19296		H	74	-74	Peak			No Emissions
19296		H	54	-54	Avg			Detected
21708		H	--	--	Peak			No Emissions
21708		H	--	--	Avg			Detected
24120		H	--	--	Peak			No Emissions
24120		H	--	--	Avg			Detected

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DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/14/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	42.75	V	74	-31.25	Peak	2.13	135	
4874	38.37	V	54	-15.63	Avg	2.13	135	
7311	41.27	V	74	-32.73	Peak	1.48	45	
7311	27.51	V	54	-26.49	Avg	1.48	45	
9748	48.99	V	--	--	Peak	1.49	90	Not in Restricted Band
9748	35.05	V	--	--	Avg	1.49	90	Not in Restricted Band
12185	45.74	V	74	-28.26	Peak	1.38	225	
12185	32.81	V	54	-21.19	Avg	1.38	225	
14622	49.38	V	--	--	Peak	1.38	315	Not in Restricted Band
14622	35.93	V	--	--	Avg	1.38	315	Not in Restricted Band
17059	48.83	V	--	--	Peak	1.65	90	Not in Restricted Band
17059	35.99	V	--	--	Avg	1.65	90	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

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Airborne WLN-B Module

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Lab: B

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	43.4	H	74	-30.6	Peak	2.66	45	
4874	38.01	H	54	-15.99	Avg	2.66	45	
7311	39.13	H	74	-34.87	Peak	2.18	315	
7311	27.61	H	54	-26.39	Avg	2.18	315	
9748	48.46	H	--	--	Peak	2.62	45	Not in Restricted Band
9748	38.89	H	--	--	Avg	2.62	45	Not in Restricted Band
12185	45.01	H	74	-28.99	Peak	2.62	270	
12185	32.67	H	54	-21.33	Avg	2.62	270	
14622	50.91	H	--	--	Peak	2.31	225	Not in Restricted Band
14622	37.39	H	--	--	Avg	2.31	225	Not in Restricted Band
17059	48.1	H	--	--	Peak	2.31	135	Not in Restricted Band
17059	35.66	H	--	--	Avg	2.31	135	Not in Restricted Band
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

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Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	45.13	V	74	-28.87	Peak	1.66	225	
4924	39.92	V	54	-14.08	Avg	1.66	225	
7386	39.63	V	74	-34.37	Peak	1.77	225	
7386	26.46	V	54	-27.54	Avg	1.77	225	
9848	49.29	V	--	--	Peak	2.29	135	Not in Restricted Band
9848	43.5	V	--	--	Avg	2.29	135	Not in Restricted Band
12310	45.15	V	74	-28.85	Peak	1.82	135	
12310	32.32	V	54	-21.68	Avg	1.82	135	
14772	49.47	V	--	--	Peak	1.81	45	Not in Restricted Band
14772	36.45	V	--	--	Avg	1.81	45	Not in Restricted Band
17234	48.51	V	--	--	Peak	1.54	225	Not in Restricted Band
17234	36.45	V	--	--	Avg	1.54	225	Not in Restricted Band
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	45.84	H	74	-28.16	Peak	2.06	135	
4924	42.35	H	54	-11.65	Avg	2.06	135	
7386	38.92	H	74	-35.08	Peak	2.06	90	
7386	26.44	H	54	-27.56	Avg	2.06	90	
9848	48.2	H	--	--	Peak	2.03	45	Not in Restricted Band
9848	41.44	H	--	--	Avg	2.03	45	Not in Restricted Band
12310	46.36	H	74	-27.64	Peak	1.76	45	
12310	32.14	H	54	-21.86	Avg	1.76	45	
14772	50.45	H	--	--	Peak	1.45	225	Not in Restricted Band
14772	36.19	H	--	--	Avg	1.45	225	Not in Restricted Band
17234	49.01	H	--	--	Peak	1.74	45	Not in Restricted Band
17234	36.04	H	--	--	Avg	1.74	45	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	42.53	V	74	-31.47	Peak	2.68	270	
4824	38.05	V	54	-15.95	Avg	2.68	270	
7236	41.39	V	74	-32.61	Peak	1.8	270	
7236	27.7	V	54	-26.3	Avg	1.8	270	
9648	48.84	V	--	--	Peak	1.95	270	Not in Restricted Band
9648	40.83	V	--	--	Avg	1.95	270	Not in Restricted Band
12060	44.67	V	74	-29.33	Peak	1.42	225	
12060	43.32	V	54	-10.68	Avg	1.42	225	
14472	48.33	V	74	-25.67	Peak	1.35	225	
14472	36.23	V	54	-17.77	Avg	1.35	225	
16884	48.58	V	--	--	Peak	1.86	225	Not in Restricted Band
16884	34.22	V	--	--	Avg	1.86	225	Not in Restricted Band
19296		V	74	-74	Peak			No Emissions
19296		V	54	-54	Avg			Detected
21708		V	--	--	Peak			No Emissions
21708		V	--	--	Avg			Detected
24120		V	--	--	Peak			No Emissions
24120		V	--	--	Avg			Detected

FCC 15.247

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	41.39	H	74	-32.61	Peak	1.68	225	
4824	35.95	H	54	-18.05	Avg	1.68	225	
7236	40.36	H	74	-33.64	Peak	1.68	180	
7236	27.57	H	54	-26.43	Avg	1.68	180	
9648	47.79	H	--	--	Peak	2.21	45	Not in Restricted Band
9648	36.49	H	--	--	Avg	2.21	45	Not in Restricted Band
12060	44.96	H	74	-29.04	Peak	2.21	180	
12060	32.71	H	54	-21.29	Avg	2.21	180	
14472	49.25	H	74	-24.75	Peak	1.68	45	
14472	36.78	H	54	-17.22	Avg	1.68	45	
16884	48.06	H	--	--	Peak	1.57	315	Not in Restricted Band
16884	34.35	H	--	--	Avg	1.57	315	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	39.79	V	74	-34.21	Peak	1.83	225	
4874	32.97	V	54	-21.03	Avg	1.83	225	
7311	39.85	V	74	-34.15	Peak	2.51	180	
7311	27.69	V	54	-26.31	Avg	2.51	180	
9748	47.89	V	--	--	Peak	2.13	135	Not in Restricted Band
9748	34.29	V	--	--	Avg	2.13	135	Not in Restricted Band
12185	45.66	V	74	-28.34	Peak	2.13	180	
12185	32.04	V	54	-21.96	Avg	2.13	180	
14622	48.21	V	--	--	Peak	1.87	225	Not in Restricted Band
14622	34.69	V	--	--	Avg	1.87	225	Not in Restricted Band
17059	49.51	V	--	--	Peak	1.88	135	Not in Restricted Band
17059	36.1	V	--	--	Avg	1.88	135	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	41.39	H	74	-32.61	Peak	1.79	225	
4874	36.57	H	54	-17.43	Avg	1.79	225	
7311	39.7	H	74	-34.3	Peak	2.09	225	
7311	27.1	H	54	-26.9	Avg	2.09	225	
9748	49.33	H	--	--	Peak	2.72	270	Not in Restricted Band
9748	43.45	H	--	--	Avg	2.72	270	Not in Restricted Band
12185	45.01	H	74	-28.99	Peak	2.72	180	
12185	32.25	H	54	-21.75	Avg	2.72	180	
14622	48.34	H	--	--	Peak	2.72	225	Not in Restricted Band
14622	35.83	H	--	--	Avg	2.72	225	Not in Restricted Band
17059	48.33	H	--	--	Peak	2.73	225	Not in Restricted Band
17059	36.24	H	--	--	Avg	2.73	225	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	41.79	V	74	-32.21	Peak	2.21	180	
4924	34.29	V	54	-19.71	Avg	2.21	180	
7386	38.19	V	74	-35.81	Peak	1.48	180	
7386	25.91	V	54	-28.09	Avg	1.48	180	
9848	47.88	V	--	--	Peak	1.47	135	Not in Restricted Band
9848	40.64	V	--	--	Avg	1.47	135	Not in Restricted Band
12310	44.47	V	74	-29.53	Peak	1.42	225	
12310	31.07	V	54	-22.93	Avg	1.42	225	
14772	48.53	V	--	--	Peak	1.73	135	Not in Restricted Band
14772	35.26	V	--	--	Avg	1.73	135	Not in Restricted Band
17234	51.04	V	--	--	Peak	1.58	153	Not in Restricted Band
17234	36.85	V	--	--	Avg	1.58	135	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	41.11	H	74	-32.89	Peak	2.13	225	
4924	34.54	H	54	-19.46	Avg	2.13	225	
7386	38.37	H	74	-35.63	Peak	1.82	180	
7386	25.91	H	54	-28.09	Avg	1.82	180	
9848	48.89	H	--	--	Peak	2.34	45	Not in Restricted Band
9848	43.47	H	--	--	Avg	2.34	45	Not in Restricted Band
12310	43.21	H	74	-30.79	Peak	1.86	45	
12310	30.47	H	54	-23.53	Avg	1.86	45	
14772	48.91	H	--	--	Peak	1.74	45	Not in Restricted Band
14772	36.3	H	--	--	Avg	1.74	45	Not in Restricted Band
17234	49.4	H	--	--	Peak	1.74	0	Not in Restricted Band
17234	37.05	H	--	--	Avg	1.74	0	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	43.77	V	74	-30.23	Peak	2.26	45	
4824	37.78	V	54	-16.22	Avg	2.26	45	
7236	40.54	V	74	-33.46	Peak	1.35	225	
7236	28.2	V	54	-25.8	Avg	1.35	225	
9648	49.9	V	--	--	Peak	2.04	180	Not in Restricted Band
9648	41.15	V	--	--	Avg	2.04	180	Not in Restricted Band
12060	46.14	V	74	-27.86	Peak	2.04	90	
12060	33.63	V	54	-20.37	Avg	2.04	90	
14472	50.13	V	74	-23.87	Peak	1.56	180	
14472	37.12	V	54	-16.88	Avg	1.56	180	
16884	46.72	V	--	--	Peak	1.28	225	Not in Restricted Band
16884	34.88	V	--	--	Avg	1.28	225	Not in Restricted Band
19296		V	74	-74	Peak			No Emissions
19296		V	54	-54	Avg			Detected
21708		V	--	--	Peak			No Emissions
21708		V	--	--	Avg			Detected
24120		V	--	--	Peak			No Emissions
24120		V	--	--	Avg			Detected

FCC 15.247

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	41.07	H	74	-32.93	Peak	2.4	315	
4824	35.05	H	54	-18.95	Avg	2.4	315	
7236	39.98	H	74	-34.02	Peak	2	90	
7236	27.37	H	54	-26.63	Avg	2	90	
9648	48.62	H	--	--	Peak	2.29	180	Not in Restricted Band
9648	40.62	H	--	--	Avg	2.29	180	Not in Restricted Band
12060	45.31	H	74	-28.69	Peak	1.77	315	
12060	32.55	H	54	-21.45	Avg	1.77	315	
14472	48.67	H	74	-25.33	Peak	1.77	225	
14472	36.14	H	54	-17.86	Avg	1.77	225	
16884	48.03	H	--	--	Peak	1.77	225	Not in Restricted Band
16884	34.95	H	--	--	Avg	1.77	225	Not in Restricted Band
19296		H	74	-74	Peak			No Emissions
19296		H	54	-54	Avg			Detected
21708		H	--	--	Peak			No Emissions
21708		H	--	--	Avg			Detected
24120		H	--	--	Peak			No Emissions
24120		H	--	--	Avg			Detected

FCC 15.247

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 6 - 802.11 b Mode
Transmit Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	45.35	V	74	-28.65	Peak	1.43	135	
4874	41.17	V	54	-12.83	Avg	1.43	135	
7311	40.68	V	74	-33.32	Peak	1.43	135	
7311	27.89	V	54	-26.11	Avg	1.43	135	
9748	50	V	--	--	Peak	1.59	225	Not in Restricted Band
9748	41.78	V	--	--	Avg	1.59	225	Not in Restricted Band
12185	46.73	V	74	-27.27	Peak	1.38	225	
12185	32.97	V	54	-21.03	Avg	1.38	225	
14622	47.66	V	--	--	Peak	1.76	315	Not in Restricted Band
14622	35.45	V	--	--	Avg	1.76	315	Not in Restricted Band
17059	49.14	V	--	--	Peak	1.89	90	Not in Restricted Band
17059	36.6	V	--	--	Avg	1.89	90	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	41.17	H	74	-32.83	Peak	1.59	135	
4874	34.97	H	54	-19.03	Avg	1.59	135	
7311	40.5	H	74	-33.5	Peak	1.33	135	
7311	27.23	H	54	-26.77	Avg	1.33	135	
9748	47.87	H	--	--	Peak	2.28	225	Not in Restricted Band
9748	38.5	H	--	--	Avg	2.28	225	Not in Restricted Band
12185	44.91	H	74	-29.09	Peak	1.86	315	
12185	32.42	H	54	-21.58	Avg	1.86	315	
14622	50.13	H	--	--	Peak	1.86	180	Not in Restricted Band
14622	36.78	H	--	--	Avg	1.86	180	Not in Restricted Band
17059	48.69	H	--	--	Peak	1.86	270	Not in Restricted Band
17059	36.13	H	--	--	Avg	1.86	270	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

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 11 - 802.11 b Mode
Transmit Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	47.06	V	74	-26.94	Peak	2.7	225	
4924	43.81	V	54	-10.19	Avg	2.7	225	
7386	41.07	V	74	-32.93	Peak	1.51	180	
7386	26.45	V	54	-27.55	Avg	1.51	180	
9848	48.96	V	--	--	Peak	1.59	135	Not in Restricted Band
9848	42.53	V	--	--	Avg	1.59	135	Not in Restricted Band
12310	44.19	V	74	-29.81	Peak	2.05	225	
12310	31.8	V	54	-22.2	Avg	2.05	225	
14772	49.35	V	--	--	Peak	1.55	270	Not in Restricted Band
14772	36.04	V	--	--	Avg	1.55	270	Not in Restricted Band
17234	49.29	V	--	--	Peak	1.55	270	Not in Restricted Band
17234	36.47	V	--	--	Avg	1.55	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

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 11 - 802.11 b Mode
Transmit Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	43.91	H	74	-30.09	Peak	2.39	315	
4924	39.6	H	54	-14.4	Avg	2.39	315	
7386	39.63	H	74	-34.37	Peak	2.39	225	
7386	26.58	H	54	-27.42	Avg	2.39	225	
9848	47.05	H	--	--	Peak	1.65	180	Not in Restricted Band
9848	38.14	H	--	--	Avg	1.65	180	Not in Restricted Band
12310	44.57	H	74	-29.43	Peak	1.65	270	
12310	30.99	H	54	-23.01	Avg	1.65	270	
14772	48.76	H	--	--	Peak	1.65	225	Not in Restricted Band
14772	35.71	H	--	--	Avg	1.65	225	Not in Restricted Band
17234	48.57	H	--	--	Peak	1.65	45	Not in Restricted Band
17234	36.73	H	--	--	Avg	1.65	45	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	41.17	V	74	-32.83	Peak	1.39	225	
4824	33.85	V	54	-20.15	Avg	1.39	225	
7236	40.97	V	74	-33.03	Peak	1.39	225	
7236	26.93	V	54	-27.07	Avg	1.39	225	
9648	47.88	V	--	--	Peak	1.99	270	Not in Restricted Band
9648	37.43	V	--	--	Avg	1.99	270	Not in Restricted Band
12060	45.31	V	74	-28.69	Peak	1.56	180	
12060	32.15	V	54	-21.85	Avg	1.56	180	
14472	48.84	V	74	-25.16	Peak	1.56	135	
14472	36	V	54	-18	Avg	1.56	135	
16884	47.45	V	--	--	Peak	1.71	180	Not in Restricted Band
16884	34.93	V	--	--	Avg	1.71	180	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	42.66	H	74	-31.34	Peak	1.34	135	
4824	37.39	H	54	-16.61	Avg	1.34	135	
7236	38.75	H	74	-35.25	Peak	1.66	45	
7236	26.04	H	54	-27.96	Avg	1.66	45	
9648	47.48	H	--	--	Peak	1.66	45	Not in Restricted Band
9648	37.38	H	--	--	Avg	1.66	45	Not in Restricted Band
12060	46.78	H	74	-27.22	Peak	1.66	225	
12060	31.91	H	54	-22.09	Avg	1.66	225	
14472	48.47	H	74	-25.53	Peak	1.66	225	
14472	36.37	H	54	-17.63	Avg	1.66	225	
16884	49.18	H	--	--	Peak	1.66	270	Not in Restricted Band
16884	34.66	H	--	--	Avg	1.66	270	Not in Restricted Band
19296		H	74	-74	Peak			No Emissions
19296		H	54	-54	Avg			Detected
21708		H	--	--	Peak			No Emissions
21708		H	--	--	Avg			Detected
24120		H	--	--	Peak			No Emissions
24120		H	--	--	Avg			Detected

FCC 15.247

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 6 - 802.11 b Mode
Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	40.27	V	74	-33.73	Peak	1.73	270	
4874	31.65	V	54	-22.35	Avg	1.73	270	
7311	39.87	V	74	-34.13	Peak	1.73	135	
7311	26.86	V	54	-27.14	Avg	1.73	135	
9748	47.81	V	--	--	Peak	2.4	135	Not in Restricted Band
9748	39.11	V	--	--	Avg	2.4	135	Not in Restricted Band
12185	46.15	V	74	-27.85	Peak	2.4	45	
12185	32	V	54	-22	Avg	2.4	45	
14622	48.69	V	--	--	Peak	1.57	135	Not in Restricted Band
14622	35.11	V	--	--	Avg	1.57	135	Not in Restricted Band
17059	48.9	V	--	--	Peak	1.57	135	Not in Restricted Band
17059	36.12	V	--	--	Avg	1.57	135	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	41.55	H	74	-32.45	Peak	2.03	45	
4874	37.04	H	54	-16.96	Avg	2.03	45	
7311	38.49	H	74	-35.51	Peak	1.66	270	
7311	26.65	H	54	-27.35	Avg	1.66	270	
9748	46.78	H	--	--	Peak	2.1	45	Not in Restricted Band
9748	38.43	H	--	--	Avg	2.1	45	Not in Restricted Band
12185	44.84	H	74	-29.16	Peak	2.32	180	
12185	31.45	H	54	-22.55	Avg	2.32	180	
14622	47.95	H	--	--	Peak	2.18	225	Not in Restricted Band
14622	35	H	--	--	Avg	2.18	225	Not in Restricted Band
17059	49.09	H	--	--	Peak	2.18	315	Not in Restricted Band
17059	36.23	H	--	--	Avg	2.18	315	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

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 11 - 802.11 b Mode
Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	43.04	V	74	-30.96	Peak	1.52	225	
4924	37.33	V	54	-16.67	Avg	1.52	225	
7386	40.13	V	74	-33.87	Peak	1.52	270	
7386	25.72	V	54	-28.28	Avg	1.52	270	
9848	46.11	V	--	--	Peak	1.58	45	Not in Restricted Band
9848	38.7	V	--	--	Avg	1.58	45	Not in Restricted Band
12310	43.84	V	74	-30.16	Peak	1.58	135	
12310	31.01	V	54	-22.99	Avg	1.58	135	
14772	48.1	V	--	--	Peak	1.89	180	Not in Restricted Band
14772	35.54	V	--	--	Avg	1.89	180	Not in Restricted Band
17234	48.81	V	--	--	Peak	1.89	270	Not in Restricted Band
17234	36.76	V	--	--	Avg	1.89	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

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 11 - 802.11 b Mode
Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	44.78	H	74	-29.22	Peak	2.14	135	
4924	40.91	H	54	-13.09	Avg	2.14	135	
7386	36.98	H	74	-37.02	Peak	2.14	225	
7386	24.49	H	54	-29.51	Avg	2.14	225	
9848	46.42	H	--	--	Peak	2.24	135	Not in Restricted Band
9848	38.97	H	--	--	Avg	2.24	135	Not in Restricted Band
12310	43.68	H	74	-30.32	Peak	2.24	270	
12310	30.47	H	54	-23.53	Avg	2.24	270	
14772	49.04	H	--	--	Peak	2.24	135	Not in Restricted Band
14772	35.46	H	--	--	Avg	2.24	135	Not in Restricted Band
17234	49.43	H	--	--	Peak	2.24	225	Not in Restricted Band
17234	36.78	H	--	--	Avg	2.24	225	Not in Restricted Band
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	42.56	V	74	-31.44	Peak	2.58	45	
4824	37.58	V	54	-16.42	Avg	2.58	45	
7236	39.73	V	74	-34.27	Peak	1.83	135	
7236	27.16	V	54	-26.84	Avg	1.83	135	
9648	48.24	V	--	--	Peak	1.91	90	Not in Restricted Band
9648	35.1	V	--	--	Avg	1.91	90	Not in Restricted Band
12060	45.06	V	74	-28.94	Peak	1.9	135	
12060	32.26	V	54	-21.74	Avg	1.9	135	
14472	48.94	V	74	-25.06	Peak	1.65	225	
14472	36.05	V	54	-17.95	Avg	1.65	225	
16884	48.36	V	--	--	Peak	1.65	135	Not in Restricted Band
16884	35.04	V	--	--	Avg	1.65	135	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	41.75	H	74	-32.25	Peak	1.96	180	
4824	37.61	H	54	-16.39	Avg	1.96	180	
7236	39.92	H	74	-34.08	Peak	1.56	225	
7236	27.23	H	54	-26.77	Avg	1.56	225	
9648	47.78	H	--	--	Peak	2.05	180	Not in Restricted Band
9648	33.25	H	--	--	Avg	2.05	180	Not in Restricted Band
12060	44.93	H	74	-29.07	Peak	1.79	180	
12060	32.36	H	54	-21.64	Avg	1.79	180	
14472	49.2	H	74	-24.8	Peak	1.79	225	
14472	36.05	H	54	-17.95	Avg	1.79	225	
16884	48.14	H	--	--	Peak	1.79	45	Not in Restricted Band
16884	34.99	H	--	--	Avg	1.79	45	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

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 6 - 802.11 b Mode
Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	40.95	V	74	-33.05	Peak	1.62	225	
4874	34.46	V	54	-19.54	Avg	1.62	225	
7311	40.71	V	74	-33.29	Peak	1.62	135	
7311	26.95	V	54	-27.05	Avg	1.62	135	
9748	47.83	V	--	--	Peak	1.64	45	Not in Restricted Band
9748	39.84	V	--	--	Avg	1.64	45	Not in Restricted Band
12185	44.32	V	74	-29.68	Peak	1.64	135	
12185	31.97	V	54	-22.03	Avg	1.64	135	
14622	48.43	V	--	--	Peak	1.54	90	Not in Restricted Band
14622	35.58	V	--	--	Avg	1.54	90	Not in Restricted Band
17059	49.04	V	--	--	Peak	1.54	315	Not in Restricted Band
17059	36.29	V	--	--	Avg	1.54	315	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

DPAC Technologies

Airborne WLN-B Module

Model: ABDB-AN-DPxxx

Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	42.29	H	74	-31.71	Peak	2.08	90	
4874	35.59	H	54	-18.41	Avg	2.08	90	
7311	40.06	H	74	-33.94	Peak	1.84	180	
7311	27.51	H	54	-26.49	Avg	1.84	180	
9748	48.07	H	--	--	Peak	1.86	180	Not in Restricted Band
9748	36.25	H	--	--	Avg	1.86	180	Not in Restricted Band
12185	44.93	H	74	-29.07	Peak	1.86	90	
12185	32.11	H	54	-21.89	Avg	1.86	90	
14622	50.1	H	--	--	Peak	1.66	135	Not in Restricted Band
14622	35.48	H	--	--	Avg	1.66	135	Not in Restricted Band
17059	49.59	H	--	--	Peak	1.81	135	Not in Restricted Band
17059	36.17	H	--	--	Avg	1.81	135	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

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 11 - 802.11 b Mode
Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	46.95	V	74	-27.05	Peak	1.91	180	
4924	39.09	V	54	-14.91	Avg	1.91	180	
7386	39.41	V	74	-34.59	Peak	1.94	135	
7386	25.97	V	54	-28.03	Avg	1.94	135	
9848	48.3	V	--	--	Peak	1.85	45	Not in Restricted Band
9848	40.68	V	--	--	Avg	1.85	45	Not in Restricted Band
12310	43.89	V	74	-30.11	Peak	1.85	135	
12310	31.04	V	54	-22.96	Avg	1.85	135	
14772	48.82	V	--	--	Peak	1.62	90	Not in Restricted Band
14772	36.16	V	--	--	Avg	1.62	90	Not in Restricted Band
17234	49.86	V	--	--	Peak	1.62	135	Not in Restricted Band
17234	36.79	V	--	--	Avg	1.62	135	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

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 11 - 802.11 b Mode
Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	44.29	H	74	-29.71	Peak	1.55	135	
4924	38.78	H	54	-15.22	Avg	1.55	135	
7386	38.74	H	74	-35.26	Peak	1.72	135	
7386	25.95	H	54	-28.05	Avg	1.72	135	
9848	47.67	H	--	--	Peak	1.99	135	Not in Restricted Band
9848	39.16	H	--	--	Avg	1.99	135	Not in Restricted Band
12310	44.69	H	74	-29.31	Peak	2.3	180	
12310	30.92	H	54	-23.08	Avg	2.3	180	
14772	48.66	H	--	--	Peak	1.69	135	Not in Restricted Band
14772	36.29	H	--	--	Avg	1.69	135	Not in Restricted Band
17234	49.91	H	--	--	Peak	1.98	180	Not in Restricted Band
17234	36.81	H	--	--	Avg	1.98	180	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

DPAC Technologies
Airborne WLN-B Module
Model: ABDB-AB-DPxxx
Configuration: With P/N:

Date: 4/13/05
Lab: B
Tested By: Kyle Fujimoto

Channel 6 - 802.11 b Mode
Receive Mode - X-Axis

[illegible]

DPAC Technologies
Airborne WLN-B Module
Model: ABDB-AN-DPxxx
Configuration: With P/N:

Date: 4/14/05
Lab: B
Tested By: Kyle Fujimoto

Channel 6 - 802.11 b Mode
Receive Mode - Y-Axis

[illegible]

DPAC Technologies
Airborne WLN-B Module
Model: ABDB-AN-DPxxx
Configuration: With P/N:

Date: 4/13/05
Lab: B
Tested By: Kyle Fujimoto

Channel 6 - 802.11 b Mode
Receive Mode - Z-Axis

[illegible]

DPAC Technologies
Airborne WLN-B Module
Model: ABDB-AN-DPxxx
Configuration: With P/N: S

Date: 4/15/05
Lab: B
Tested By: Kyle Fujimoto
nch Magnetic Base

[illegible]

DPAC Technologies
Airborne WLN-B Module
Model: ABDB-AN-DPxxx
Configuration: With P/N: S

Date: 4/15/05
Lab: B
Tested By: Kyle Fujimoto
nch Magnetic Base

[illegible]

DPAC Technologies
Airborne WLN-B Module
Model: ABDB-AN-DPxxx
Configuration: With P/N:9

Date: 4/15/05
Lab: B
Tested By: Kyle Fujimoto
nch Magnetic Base

[illegible]

DPAC Technologies
Airborne WLN-B Module
Model: ABDB-AN-DPxxx
Configuration: With P/N:S
(worst case antenna)

Date: 4/18/05
Lab: B
Tested By: Kyle Fujimoto

Vertical and Horizontal Polarization -- 10 kHz to 300 MHz

[illegible]

DPAC Technologies
Airborne WLN-B Module
Model: ABDB-AN-DPxxx
Configuration: With P/N:S
(worst case antenna)

Date: 4/18/05
Lab: B
Tested By: Kyle Fujimoto

Vertical and Horizontal Polarization -- 300 MHz to 1000 MHz

[illegible]

DPAC Technologies
Airborne WLN-B Module
Model: ABDB-AN-DPxxx
Configuration: With P/N:

Date: 4/14/05
Lab: B
Tested By: Kyle Fujimoto

Digital Portion - 1 GHz to 25 GHz Y-Axis Worst Case

[illegible]

DPAC Technologies
Airborne WLN-B Module
Model: ABDB-AN-DPxxx
Configuration: With P/N:9

Date: 4/15/05
Lab: B
Tested By: Kyle Fujimoto
nch Magnetic Base

[illegible]

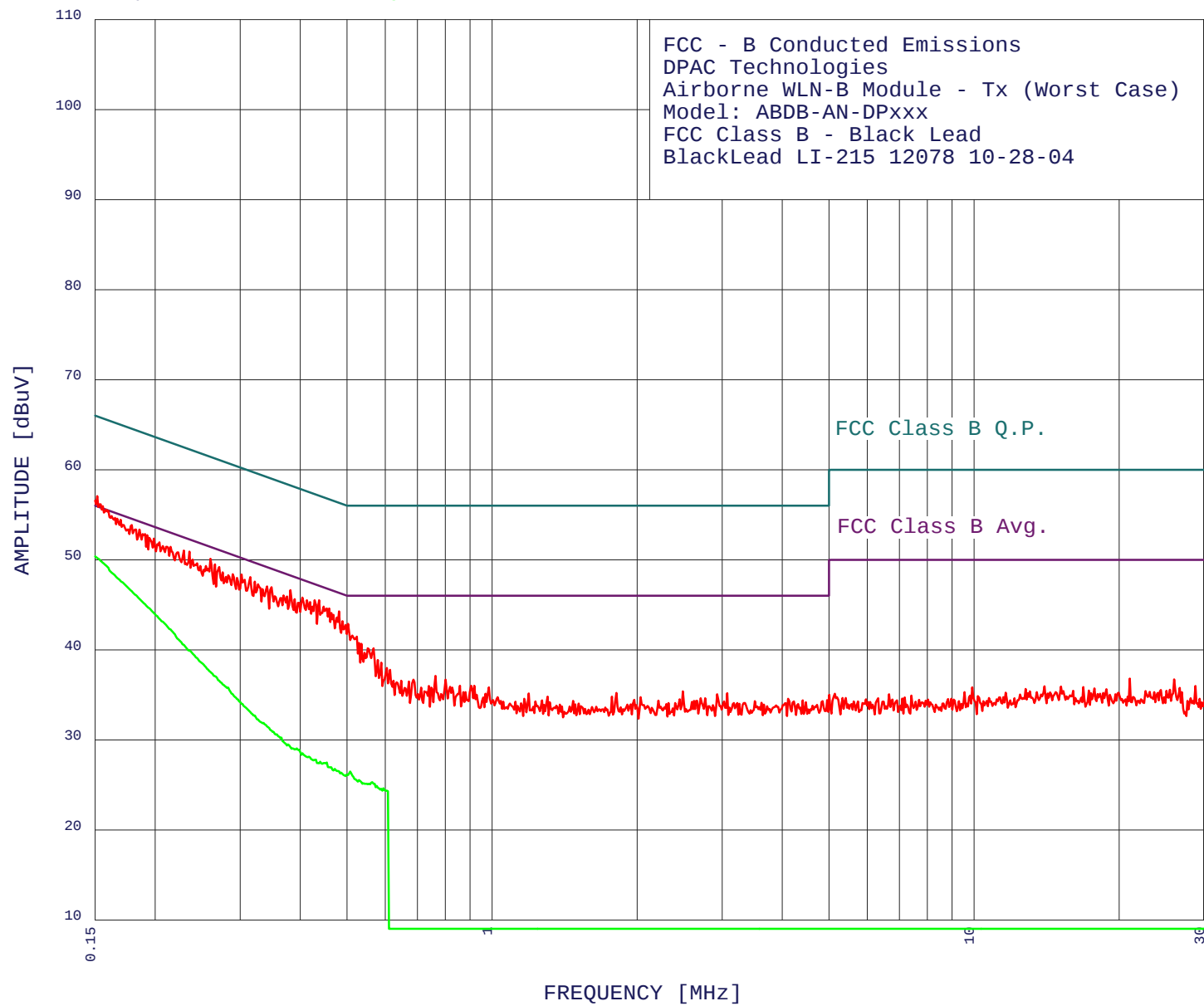
CONDUCTED EMISSIONS

DATA SHEETS

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

4/19/2005

8:55:33




**COMPATIBLE
ELECTRONICS**

4/19/2005

8:55:33

FCC - B Conducted Emissions

DPAC Technologies

Airborne WLN-B Module - Tx with Swivel Base Antenna (Worst Case)

Model: ABDB-AN-DPxxx

FCC Class B - Black Lead

BlackLead LI-215 12078 10-28-04

TEST ENGINEER : Kyle Fujimoto

45 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.185	53.34	54.24	-0.90**
2	0.193	52.74	53.93	-1.19**
3	0.260	50.10	51.42	-1.32**
4	0.235	50.91	52.25	-1.34**
5	0.195	52.44	53.84	-1.40**
6	0.229	51.02	52.48	-1.46**
7	0.438	45.49	47.11	-1.62**
8	0.381	46.62	48.25	-1.63**
9	0.266	49.50	51.24	-1.75**
10	0.315	48.06	49.84	-1.77**
11	0.428	45.49	47.28	-1.79**
12	0.302	48.37	50.19	-1.82**
13	0.272	49.19	51.07	-1.88**
14	0.404	45.81	47.77	-1.96**
15	0.481	44.27	46.32	-2.05**
16	0.348	46.94	49.00	-2.06**
17	0.413	45.50	47.59	-2.09**
18	0.322	47.56	49.66	-2.10**
19	0.341	47.05	49.18	-2.13**
20	0.290	48.38	50.54	-2.16**
21	0.296	47.98	50.36	-2.39**
22	0.389	45.62	48.08	-2.46**
23	0.369	46.03	48.52	-2.49**
24	0.396	45.21	47.95	-2.73**
25	0.489	43.17	46.18	-3.02**
26	0.502	42.86	46.00	-3.14**
27	0.530	40.77	46.00	-5.23**
28	0.535	40.67	46.00	-5.33**
29	0.567	40.17	46.00	-5.83**
30	0.552	40.17	46.00	-5.83**
31	0.580	38.87	46.00	-7.13**
32	0.589	38.57	46.00	-7.43**
33	0.605	37.97	46.00	-8.03**
34	0.614	37.77	46.00	-8.23
35	0.763	37.09	46.00	-8.91
36	0.801	36.69	46.00	-9.31
37	0.686	36.68	46.00	-9.32
38	0.648	36.58	46.00	-9.42
39	0.672	36.48	46.00	-9.52
40	0.634	36.38	46.00	-9.62
41	0.919	36.01	46.00	-9.99
42	0.904	36.01	46.00	-9.99
43	0.858	36.00	46.00	-10.00
44	0.739	35.99	46.00	-10.01
45	0.818	35.90	46.00	-10.10


**COMPATIBLE
ELECTRONICS**

4/19/2005

8:55:33

FCC - B Conducted Emissions

DPAC Technologies

Airborne WLN-B Module - Tx with Swivel Base Antenna (Worst Case)

Model: ABDB-AN-DPxxx

FCC Class B - Black Lead

BlackLead LI-215 12078 10-28-04

TEST ENGINEER : Kyle Fujimoto

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

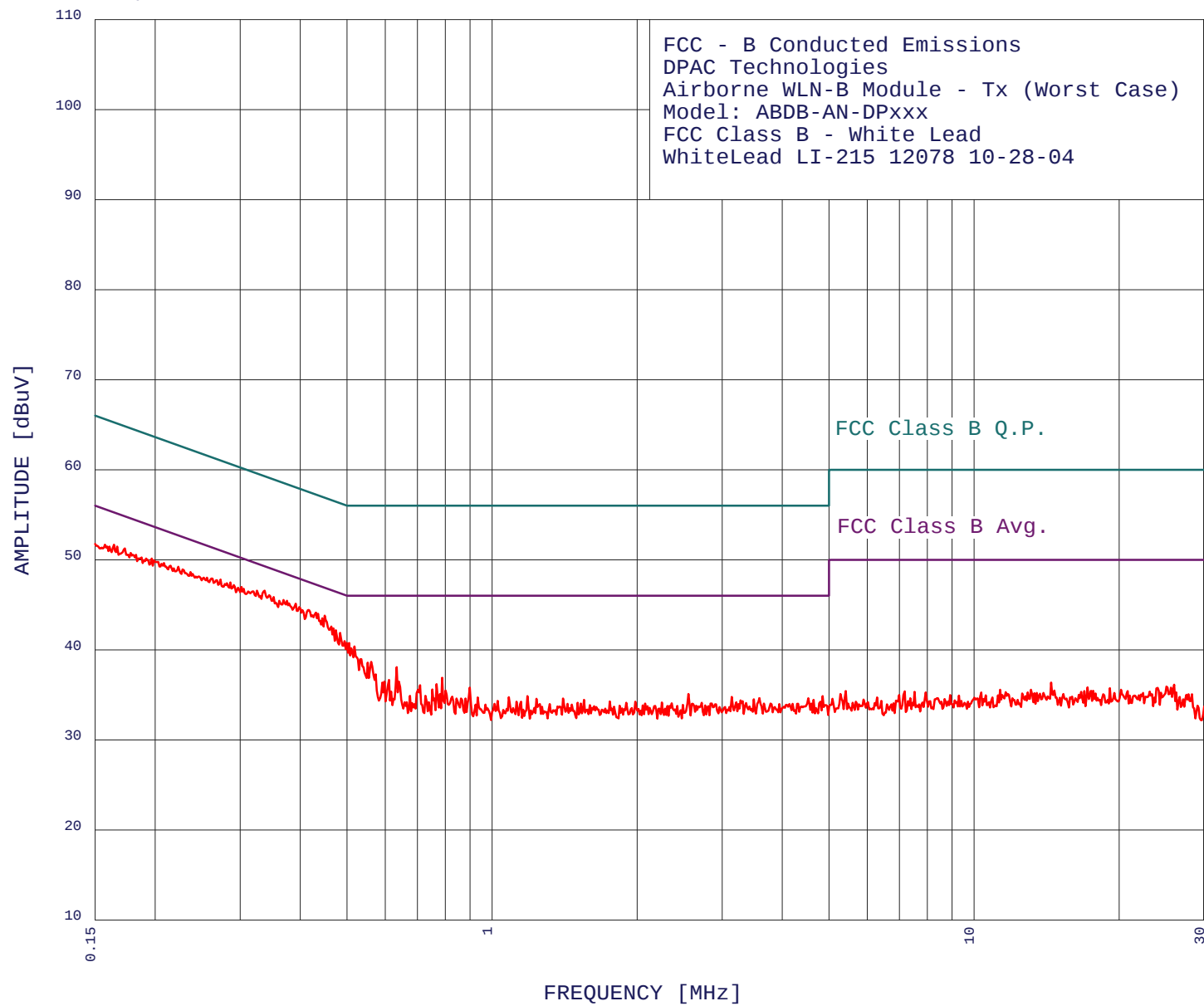
Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.235	39.96	52.25	-12.29
2	0.283	35.79	50.72	-14.92
3	0.336	31.86	49.31	-17.45
4	0.358	30.60	48.78	-18.18
5	0.365	30.26	48.61	-18.34
6	0.377	29.48	48.34	-18.86
7	0.393	29.05	47.99	-18.95
8	0.385	29.05	48.16	-19.11
9	0.404	28.51	47.77	-19.26
10	0.454	27.47	46.80	-19.33
11	0.417	28.12	47.50	-19.38
12	0.440	27.57	47.06	-19.50
13	0.447	27.42	46.93	-19.51
14	0.428	27.76	47.28	-19.52
15	0.508	26.46	46.00	-19.54
16	0.471	26.78	46.49	-19.71
17	0.500	26.14	46.01	-19.86
18	0.486	26.37	46.23	-19.86
19	0.530	25.53	46.00	-20.47
20	0.564	25.30	46.00	-20.70
21	0.541	25.18	46.00	-20.82
22	0.570	25.12	46.00	-20.88
23	0.555	25.12	46.00	-20.88
24	0.550	25.12	46.00	-20.88
25	0.577	24.87	46.00	-21.13
26	0.595	24.61	46.00	-21.39
27	0.589	24.55	46.00	-21.45
28	0.605	24.35	46.00	-21.65

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

4/19/2005

9:31:11





4/19/2005

9:31:11

FCC - B Conducted Emissions

DPAC Technologies

Airborne WLN-B Module - Tx with Swivel Base Antenna (Worst Case)

Model: ABDB-AN-DPxxx

FCC Class B - White Lead

WhiteLead LI-215 12078 10-28-04

TEST ENGINEER : Kyle Fujimoto

45 highest peaks above -50.00 dB of FCC Class B Avg. limit line

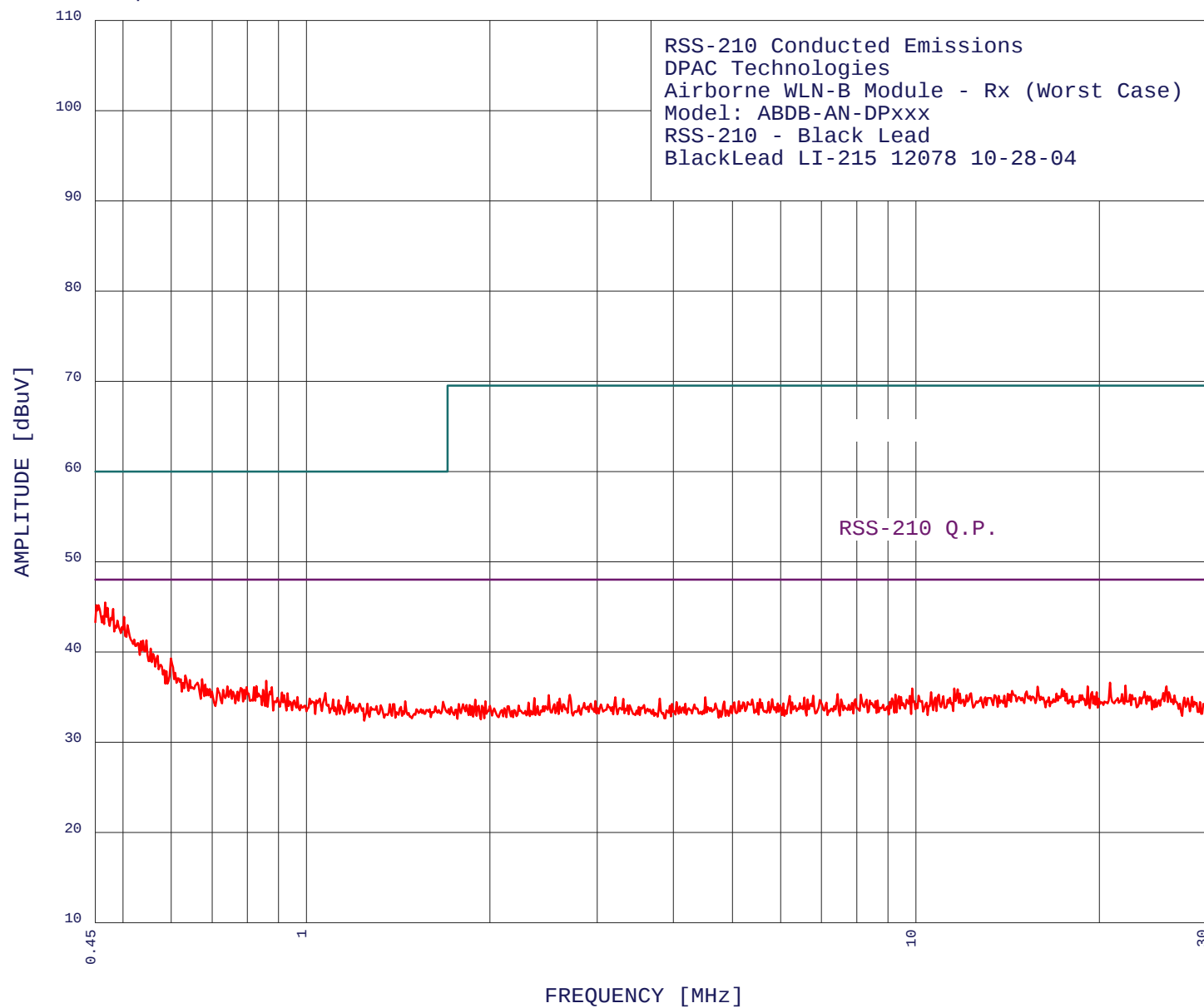
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.449	43.79	46.89	-3.10
2	0.474	42.18	46.45	-4.27
3	0.484	41.87	46.27	-4.40
4	0.505	40.76	46.00	-5.24
5	0.518	40.36	46.00	-5.64
6	0.532	38.95	46.00	-7.05
7	0.561	38.66	46.00	-7.34
8	0.552	38.56	46.00	-7.44
9	0.634	38.07	46.00	-7.93
10	0.788	36.88	46.00	-9.12
11	0.611	36.66	46.00	-9.34
12	0.641	36.47	46.00	-9.53
13	0.598	36.46	46.00	-9.54
14	0.592	36.36	46.00	-9.64
15	0.767	36.18	46.00	-9.82
16	0.709	36.07	46.00	-9.93
17	0.899	35.80	46.00	-10.20
18	0.751	35.58	46.00	-10.42
19	0.801	35.49	46.00	-10.51
20	0.618	35.36	46.00	-10.64
21	2.554	35.09	46.00	-10.91
22	0.779	35.08	46.00	-10.92
23	0.728	34.88	46.00	-11.12
24	0.676	34.87	46.00	-11.13
25	4.851	34.85	46.00	-11.15
26	1.184	34.85	46.00	-11.15
27	3.141	34.76	46.00	-11.24
28	1.083	34.73	46.00	-11.27
29	0.934	34.70	46.00	-11.30
30	4.528	34.62	46.00	-11.38
31	3.585	34.61	46.00	-11.39
32	1.404	34.60	46.00	-11.40
33	0.881	34.59	46.00	-11.41
34	0.862	34.59	46.00	-11.41
35	1.236	34.56	46.00	-11.44
36	3.492	34.50	46.00	-11.50
37	4.648	34.43	46.00	-11.57
38	1.552	34.43	46.00	-11.57
39	3.277	34.38	46.00	-11.62
40	1.027	34.31	46.00	-11.69
41	1.754	34.27	46.00	-11.73
42	1.148	34.24	46.00	-11.76
43	1.124	34.24	46.00	-11.76
44	1.981	34.22	46.00	-11.78
45	0.739	34.18	46.00	-11.82

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

4/19/2005

9:09:18





4/19/2005

9:09:18

RSS-210 Conducted Emissions

DPAC Technologies

Airborne WLN-B Module - Rx with Swivel Base Antenna (Worst Case)

Model: ABDB-AN-DPxxx

RSS-210 - Black Lead

BlackLead LI-215 12078 10-28-04

TEST ENGINEER : Kyle Fujimoto

45 highest peaks above -50.00 dB of RSS-210 Q.P. limit line

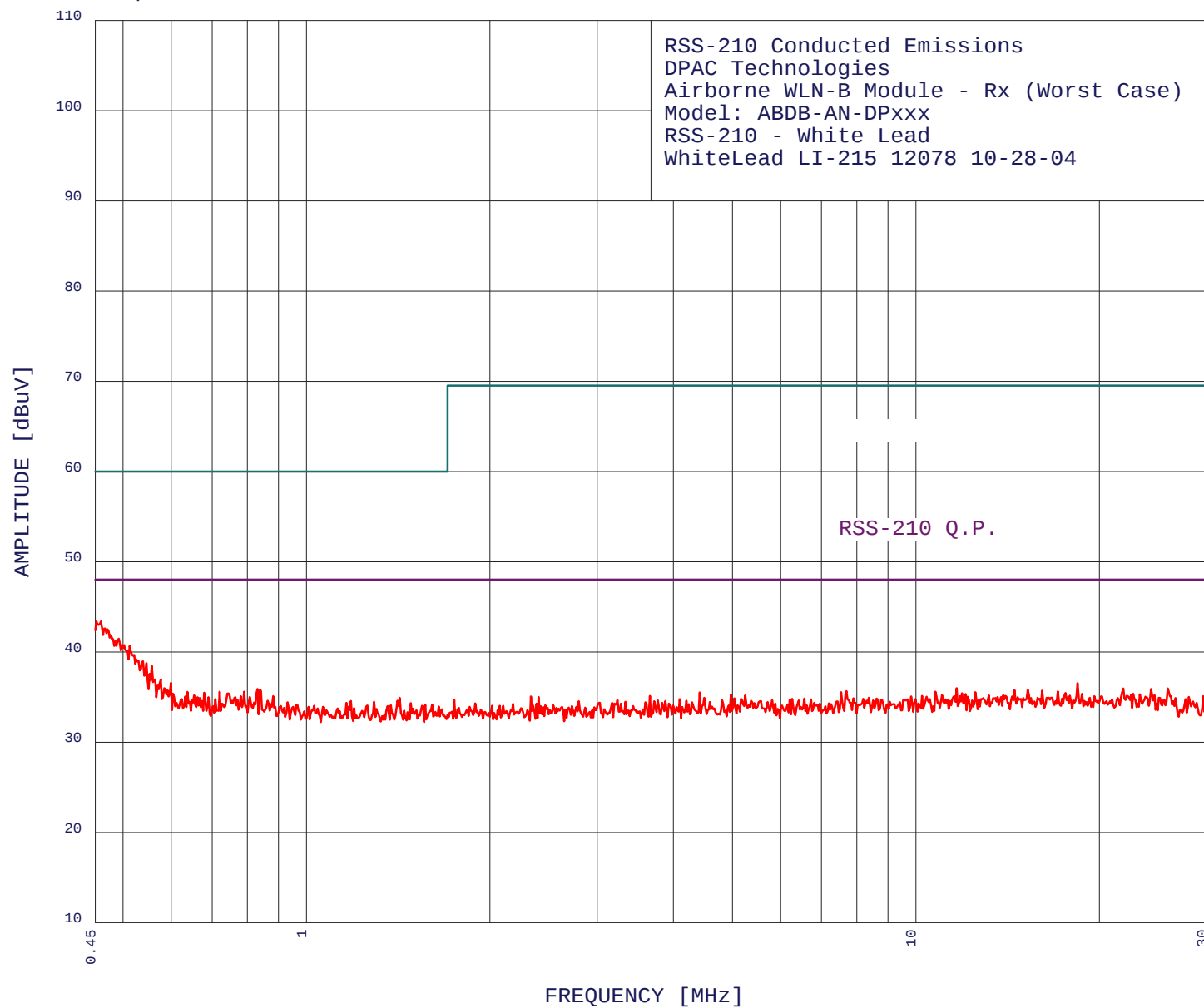
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.467	45.47	48.00	-2.53
2	0.452	45.18	48.00	-2.82
3	0.481	44.77	48.00	-3.23
4	0.502	43.86	48.00	-4.14
5	0.490	43.47	48.00	-4.53
6	0.508	42.96	48.00	-5.04
7	0.546	41.27	48.00	-6.73
8	0.539	41.27	48.00	-6.73
9	0.555	40.37	48.00	-7.63
10	0.569	39.57	48.00	-8.43
11	0.599	39.27	48.00	-8.73
12	0.589	37.87	48.00	-10.13
13	0.633	37.38	48.00	-10.62
14	0.674	36.98	48.00	-11.02
15	0.643	36.88	48.00	-11.12
16	0.859	36.80	48.00	-11.20
17	20.824	36.60	48.00	-11.40
18	0.682	36.38	48.00	-11.62
19	22.086	36.26	48.00	-11.74
20	0.827	36.20	48.00	-11.80
21	0.742	36.19	48.00	-11.81
22	19.147	36.19	48.00	-11.81
23	25.796	36.18	48.00	-11.82
24	15.849	36.14	48.00	-11.86
25	0.878	36.10	48.00	-11.90
26	0.820	36.10	48.00	-11.90
27	0.797	36.09	48.00	-11.91
28	0.780	35.99	48.00	-12.01
29	0.715	35.98	48.00	-12.02
30	11.568	35.94	48.00	-12.06
31	9.862	35.93	48.00	-12.07
32	17.380	35.88	48.00	-12.12
33	11.714	35.86	48.00	-12.14
34	0.849	35.80	48.00	-12.20
35	14.391	35.67	48.00	-12.33
36	15.199	35.62	48.00	-12.38
37	23.721	35.58	48.00	-12.42
38	19.465	35.56	48.00	-12.44
39	19.801	35.54	48.00	-12.46
40	26.016	35.52	48.00	-12.48
41	10.589	35.52	48.00	-12.48
42	0.911	35.51	48.00	-12.49
43	1.074	35.43	48.00	-12.57
44	12.320	35.42	48.00	-12.58
45	0.931	35.41	48.00	-12.59

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

4/19/2005

9:19:20





4/19/2005

9:19:20

RSS-210 Conducted Emissions

DPAC Technologies

Airborne WLN-B Module - Rx with Swivel Base Antenna (Worst Case)

Model: ABDB-AN-DPxxx

RSS-210 - White Lead

WhiteLead LI-215 12078 10-28-04

TEST ENGINEER : Kyle Fujimoto

45 highest peaks above -50.00 dB of RSS-210 Q.P. limit line

Peak criteria : 1.00 dB, Curve : Peak

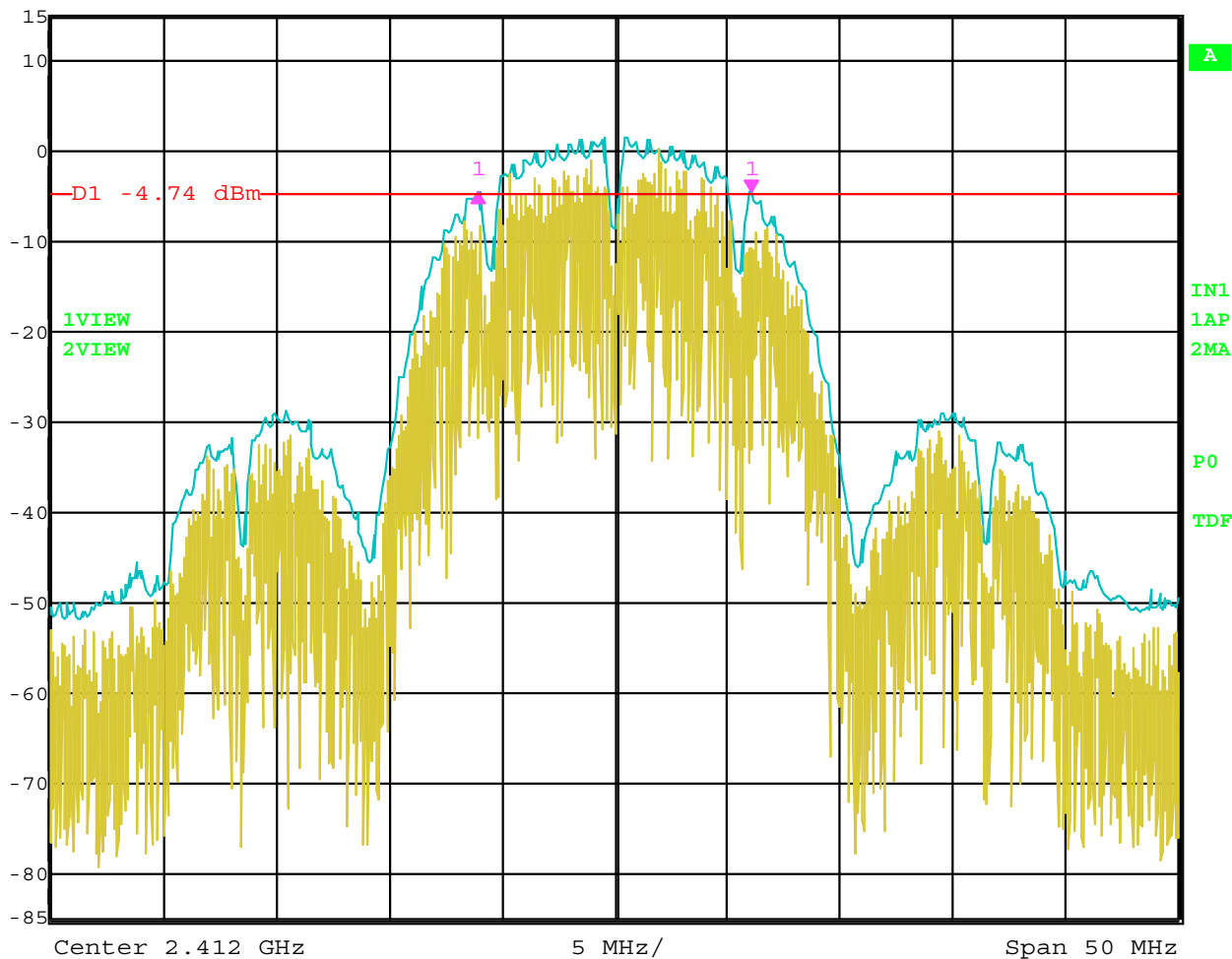
Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.513	40.66	48.00	-7.34
2	0.546	38.76	48.00	-9.24
3	0.558	38.46	48.00	-9.54
4	0.577	36.96	48.00	-11.04
5	0.599	36.56	48.00	-11.44
6	18.431	36.55	48.00	-11.45
7	11.665	35.99	48.00	-12.01
8	21.898	35.96	48.00	-12.04
9	25.906	35.94	48.00	-12.06
10	0.831	35.89	48.00	-12.11
11	24.320	35.87	48.00	-12.13
12	0.838	35.79	48.00	-12.21
13	15.263	35.79	48.00	-12.21
14	14.512	35.75	48.00	-12.25
15	16.119	35.70	48.00	-12.30
16	7.694	35.64	48.00	-12.36
17	17.095	35.62	48.00	-12.38
18	0.790	35.58	48.00	-12.42
19	10.769	35.58	48.00	-12.42
20	0.721	35.58	48.00	-12.42
21	0.638	35.57	48.00	-12.43
22	12.525	35.54	48.00	-12.46
23	7.537	35.52	48.00	-12.48
24	4.421	35.51	48.00	-12.49
25	0.679	35.47	48.00	-12.53
26	17.602	35.43	48.00	-12.57
27	11.909	35.40	48.00	-12.60
28	0.745	35.38	48.00	-12.62
29	0.604	35.36	48.00	-12.64
30	22.742	35.36	48.00	-12.64
31	18.749	35.35	48.00	-12.65
32	12.063	35.31	48.00	-12.69
33	23.325	35.29	48.00	-12.71
34	4.972	35.26	48.00	-12.74
35	11.045	35.22	48.00	-12.78
36	13.913	35.22	48.00	-12.78
37	5.250	35.19	48.00	-12.81
38	13.174	35.17	48.00	-12.83
39	0.654	35.17	48.00	-12.83
40	3.660	35.12	48.00	-12.88
41	10.240	35.11	48.00	-12.89
42	0.881	35.09	48.00	-12.91
43	29.634	35.09	48.00	-12.91
44	19.633	35.09	48.00	-12.91
45	0.780	35.08	48.00	-12.92

-6 dB BANDWIDTH

DATA SHEETS



Delta 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 0.04 dB VBW 300 kHz
15 dBm -12.12424850 MHz SWT 12.5 ms Unit dBm

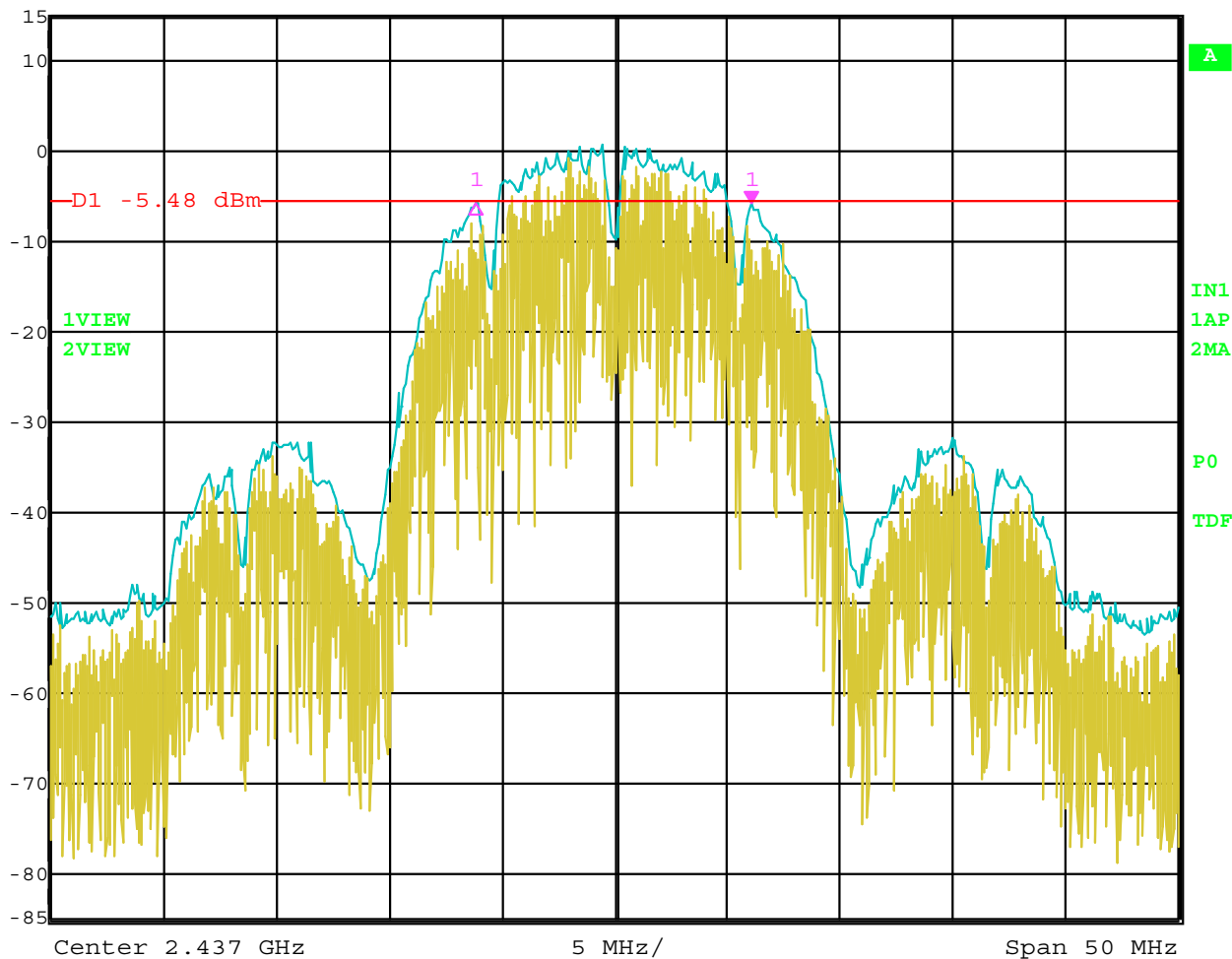


Date: 14.APR.2005 11:44:53

Bandwidth 6 dB – Channel 1



Ref Lvl 15 dBm
Marker 1 [T2] -5.88 dBm
2.44306212 GHz
RBW 100 kHz
RF Att 40 dB
VBW 300 kHz
SWT 12.5 ms
Unit dBm

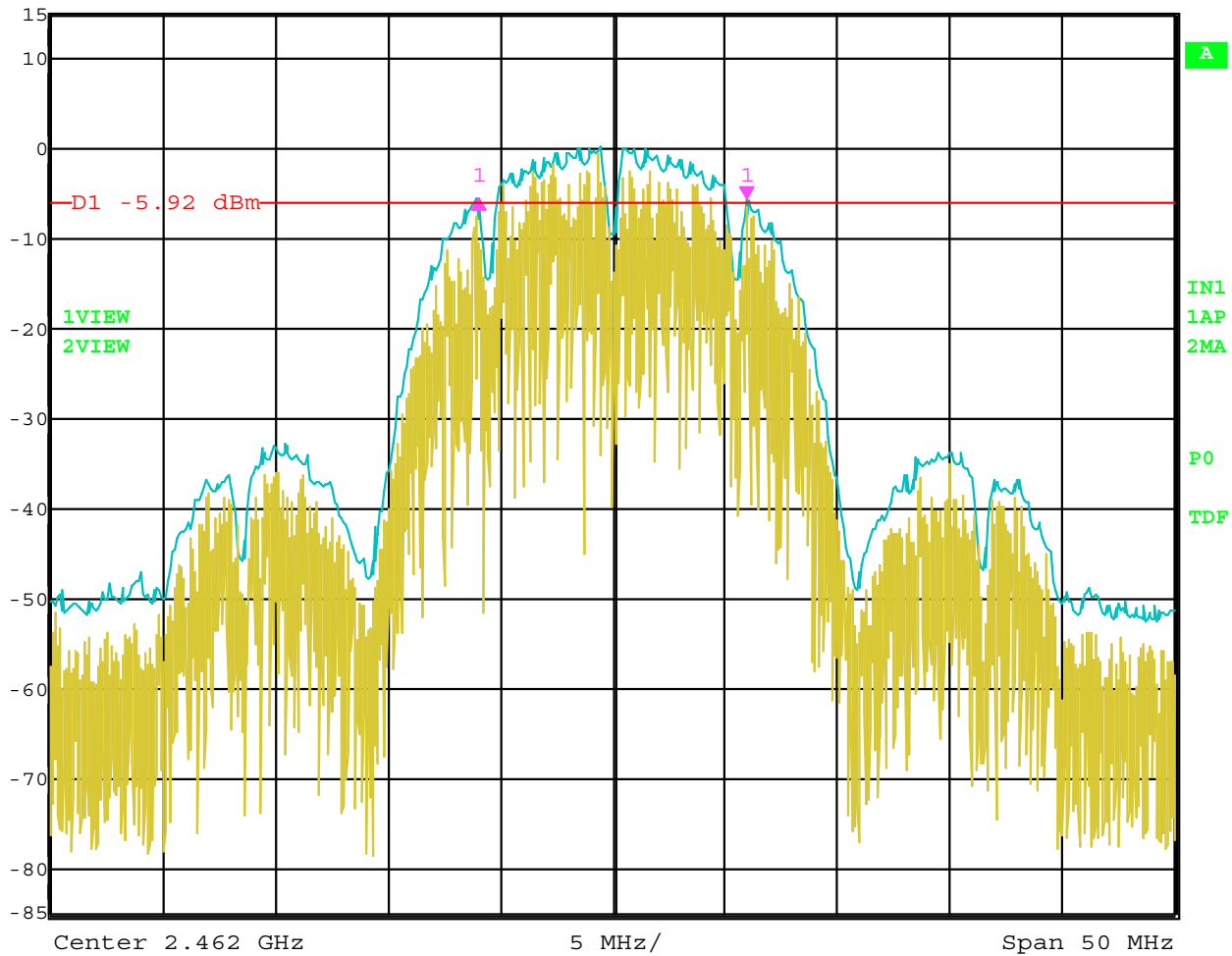


Date: 14.APR.2005 11:49:55

Bandwidth 6 dB – Channel 6



Delta 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 0.10 dB VBW 300 kHz
15 dBm -11.92384770 MHz SWT 12.5 ms Unit dBm



Date: 14.APR.2005 11:53:33

Bandwidth 6 dB – Channel 11

PEAK POWER OUTPUT

DATA SHEETS

PEAK OUTPUT POWER

DPAC Technologies

Airbone WLN-B Module

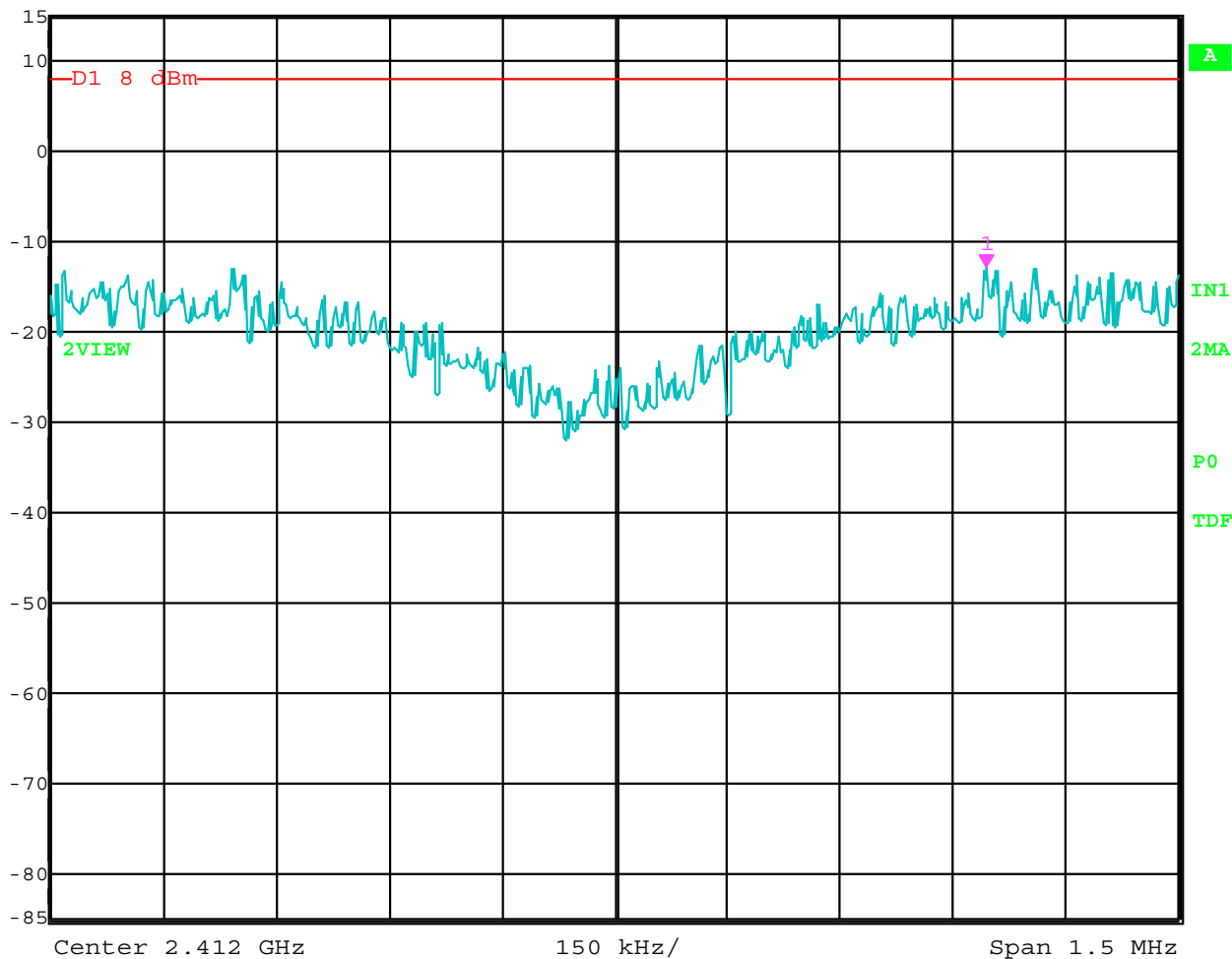
MODEL: ABDB-AN-DPxxx

CHANNEL	RATE (Worst Case)	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	1 Mbps	15.66
6 (2437 MHz)	1 Mbps	15.20
11 (2462 MHz)	1 Mbps	14.76

PEAK POWER SPECTRAL DENSITY
DATA SHEETS



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-12.86 dBm	VBW	10 kHz		
	2.41249449 GHz	SWT	500 s	Unit	dBm

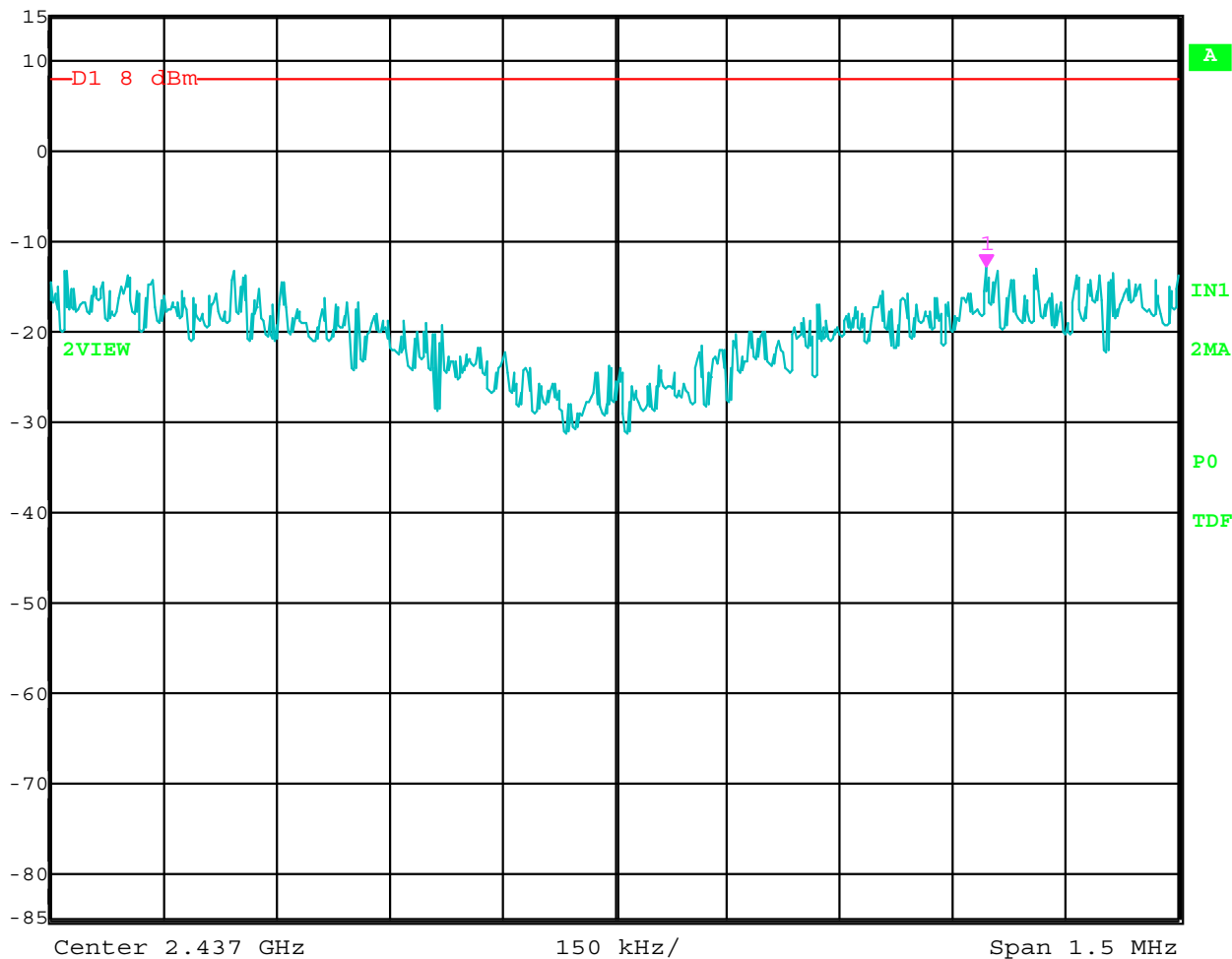


Date: 14.APR.2005 14:08:44

Spectral Density Output – Channel 1



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-12.94 dBm	VBW	10 kHz		
	2.43749449 GHz	SWT	500 s	Unit	dBm

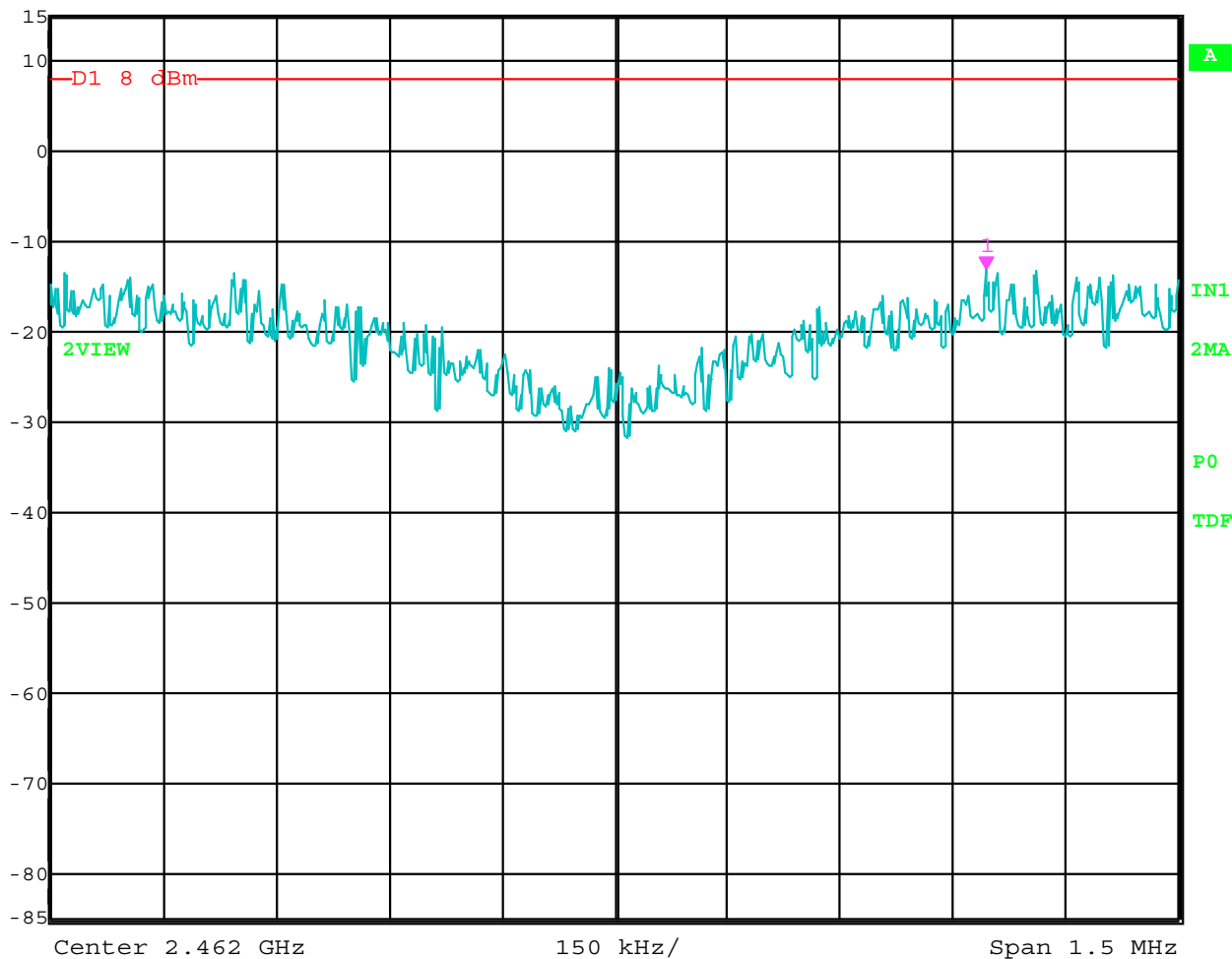


Date: 14.APR.2005 14:39:15

Spectral Density Output – Channel 6



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-13.24 dBm	VBW	10 kHz		
	2.46249449 GHz	SWT	500 s	Unit	dBm



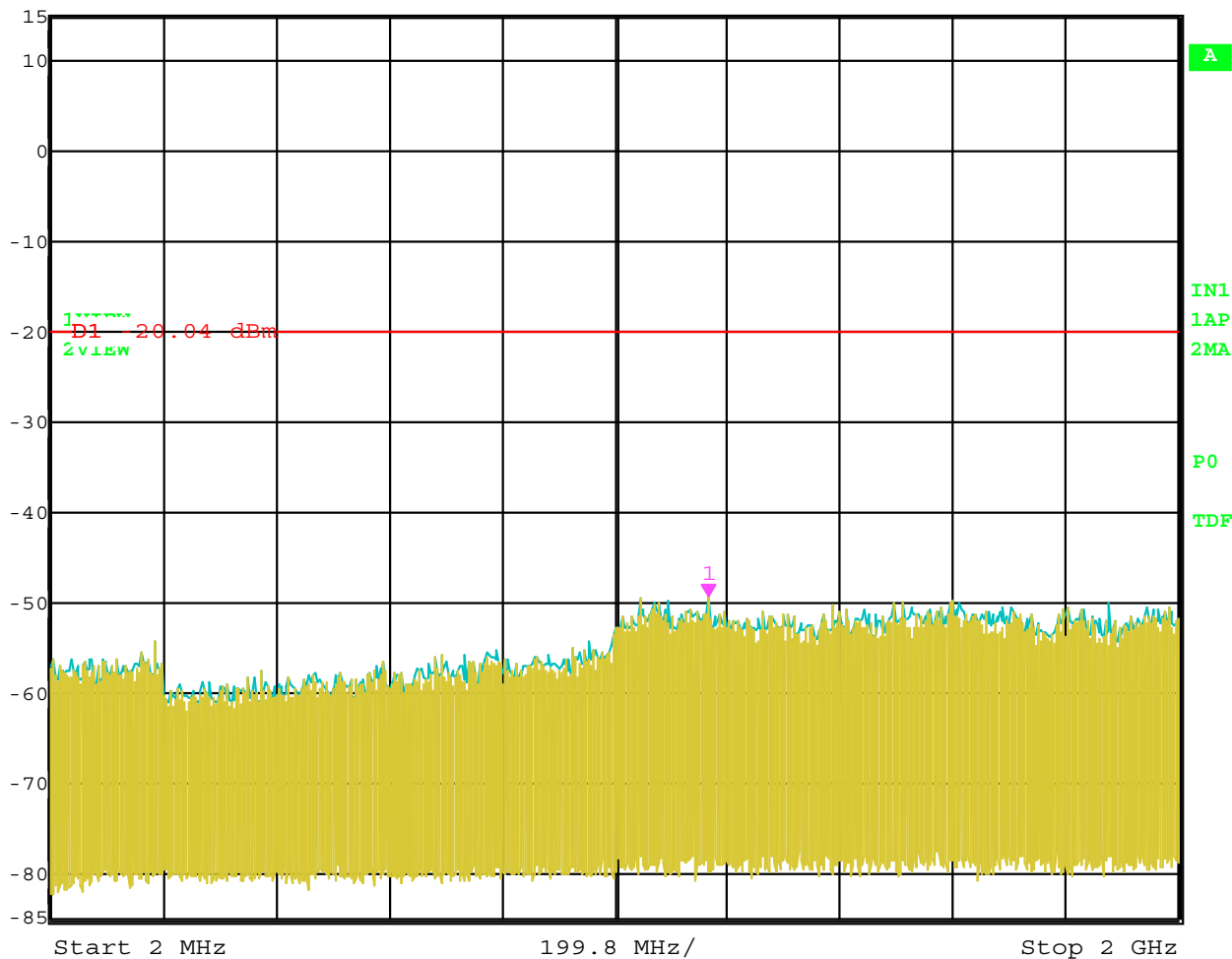
Date: 14.APR.2005 14:51:25

Spectral Density Output – Channel 11

RF ANTENNA CONDUCTED
DATA SHEETS



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-49.41 dBm	VBW	300 kHz		
	1.16716633 GHz	SWT	1.15 s	Unit	dBm

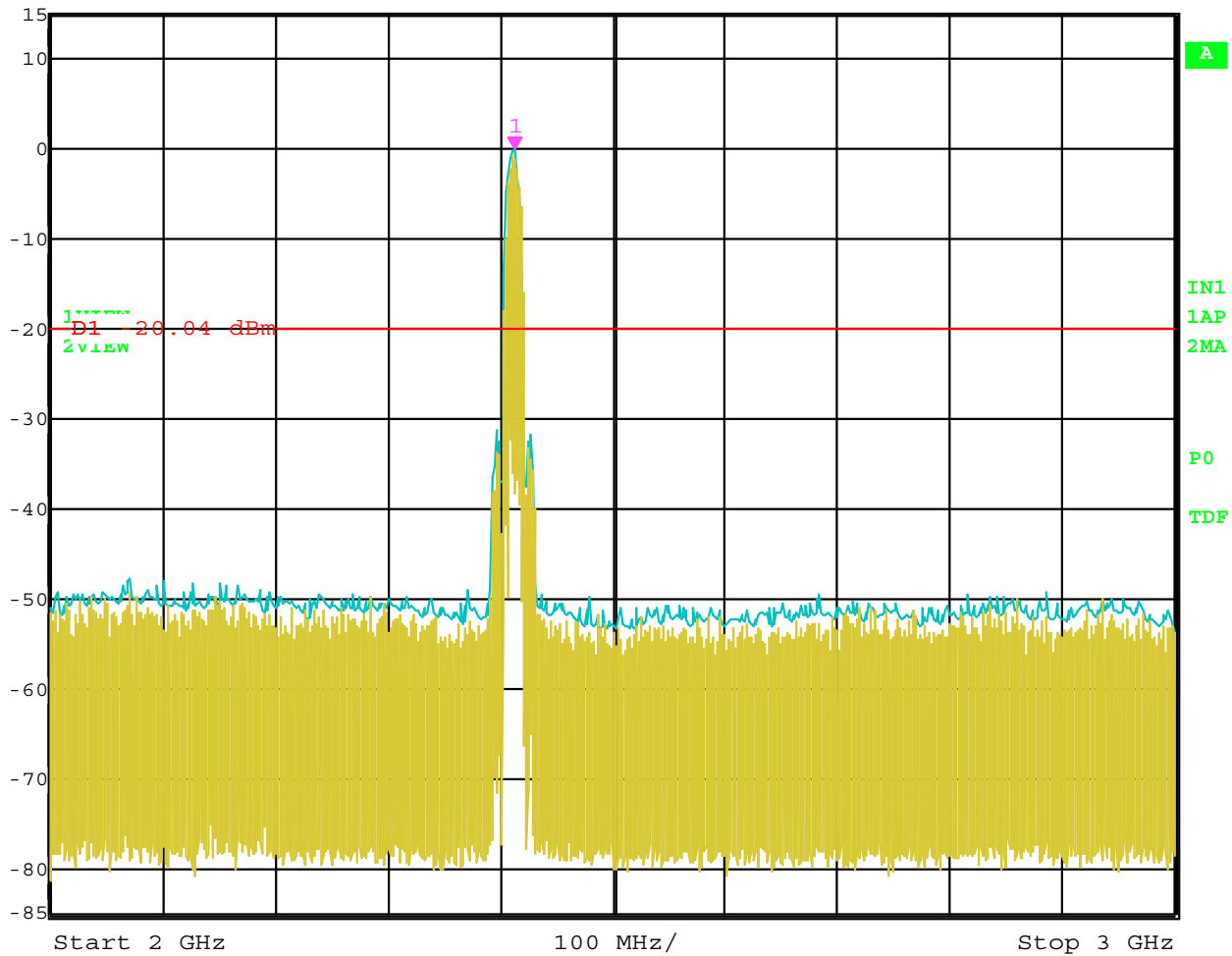


Date: 14.APR.2005 12:08:04

RF Antenna Conducted – Channel 1 – 2 MHz to 2 GHz



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-0.04 dBm	VBW	300 kHz		
	2.41200000 GHz	SWT	250 ms	Unit	dBm

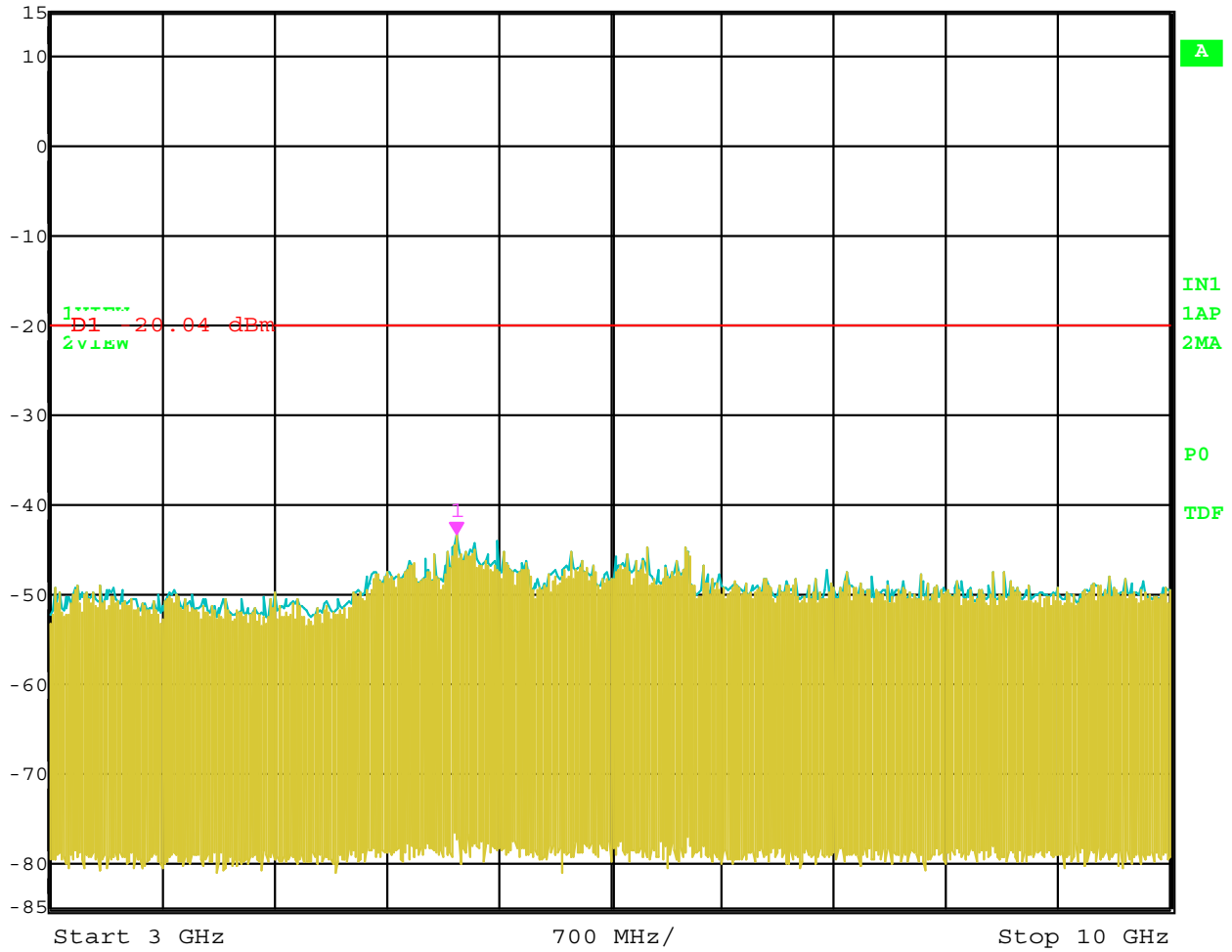


Date: 14.APR.2005 12:07:30

RF Antenna Conducted – Channel 1 – 2 GHz to 3 GHz



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-43.48 dBm	VBW	300 kHz		
	5.53907816 GHz	SWT	1.75 s	Unit	dBm

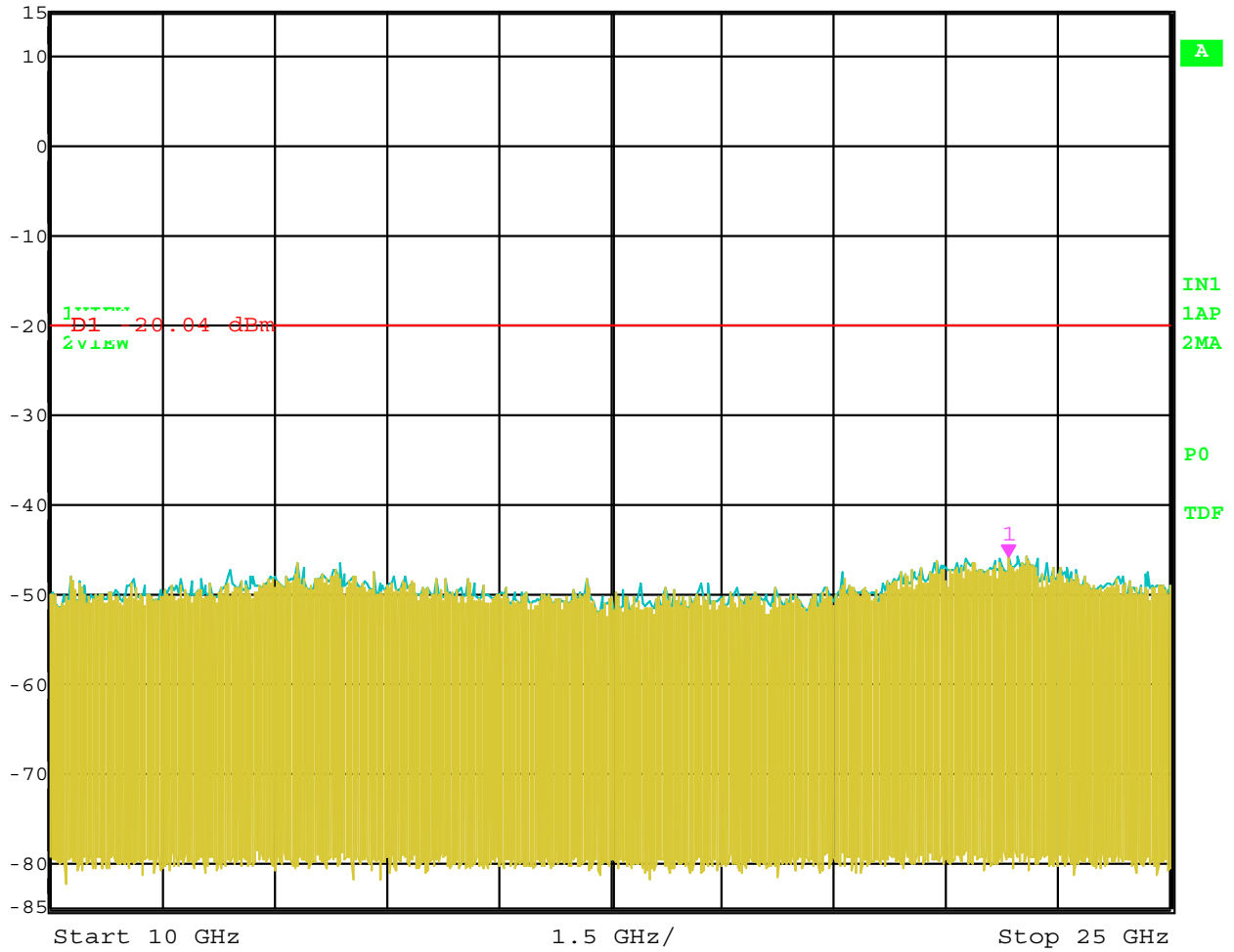


Date: 14.APR.2005 12:08:35

RF Antenna Conducted – Channel 1 – 3 GHz to 10 GHz



Ref Lvl 15 dBm
Marker 1 [T2] -45.87 dBm
22.83567134 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 3.8 s Unit dBm

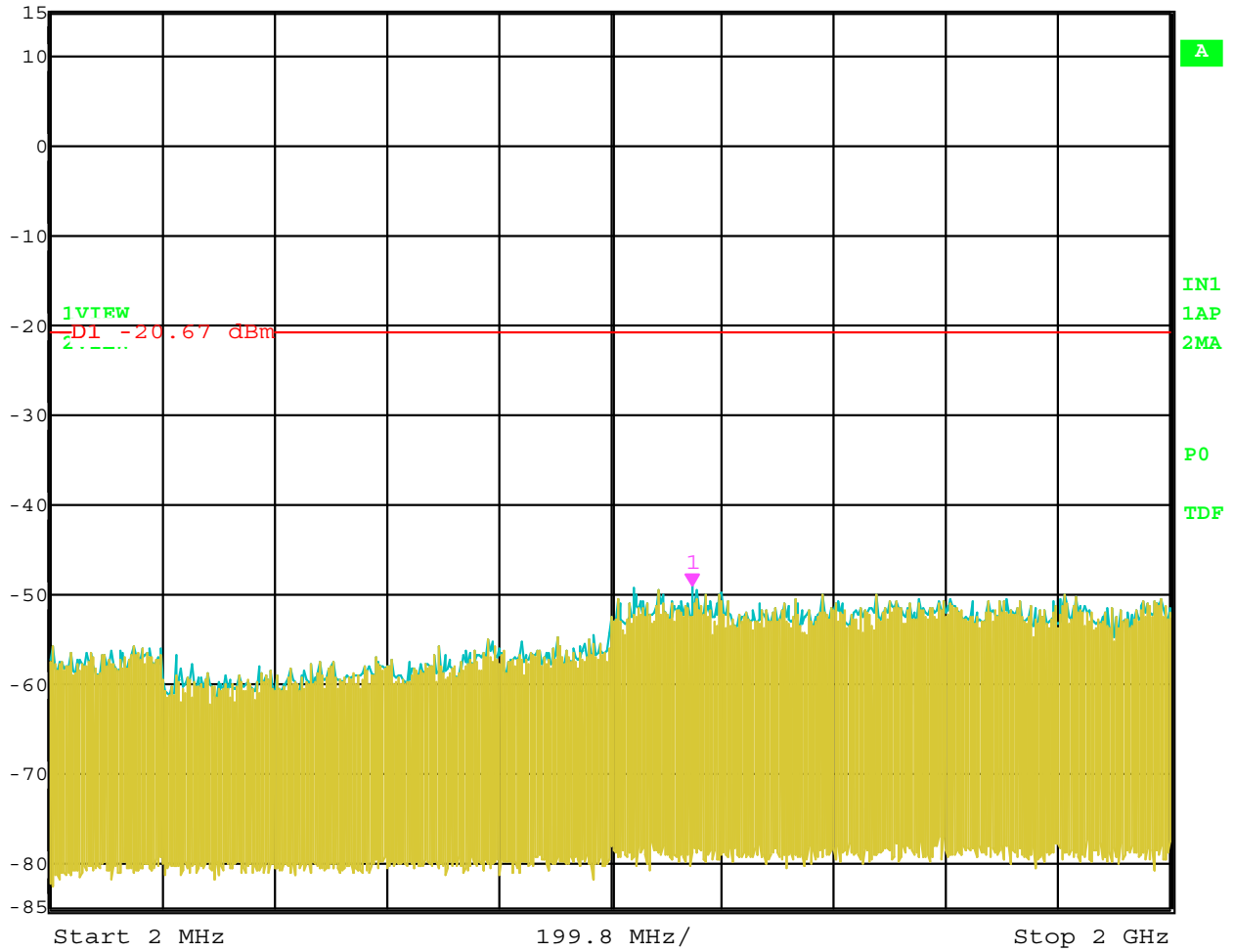


Date: 14.APR.2005 12:09:11

RF Antenna Conducted – Channel 1 – 10 GHz to 25 GHz



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-49.01 dBm	VBW	300 kHz		
	1.14714629 GHz	SWT	1.15 s	Unit	dBm

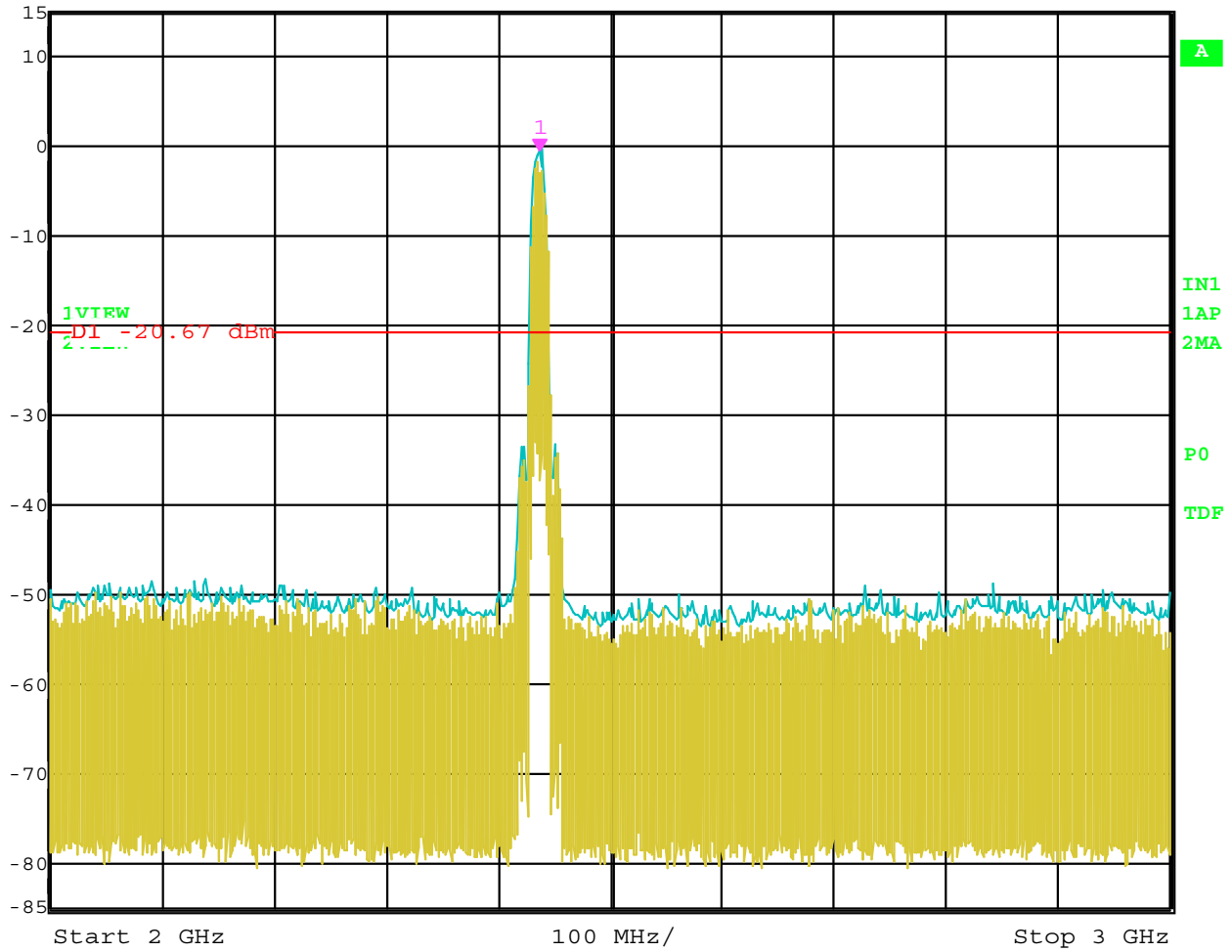


Date: 14.APR.2005 12:03:21

RF Antenna Conducted – Channel 6 – 2 MHz to 2 GHz



Ref Lvl 15 dBm
Marker 1 [T2] -0.67 dBm
2.43700000 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 250 ms Unit dBm



Date: 14.APR.2005 12:02:40

RF Antenna Conducted – Channel 6 – 2 GHz to 3 GHz

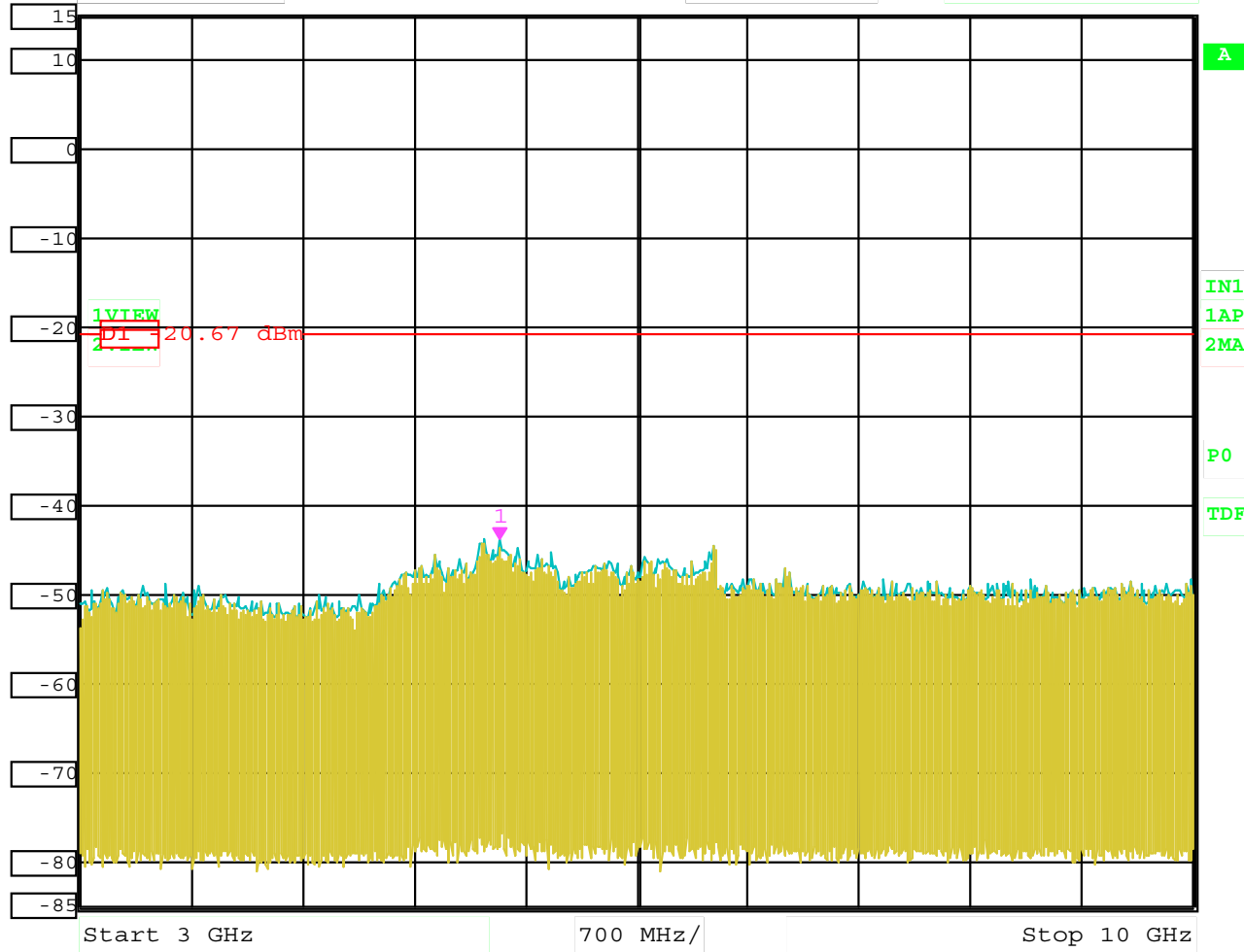


Ref Lvl
15 dBm

Marker 1 [T2]
-43.86 dBm
5.63727455 GHz

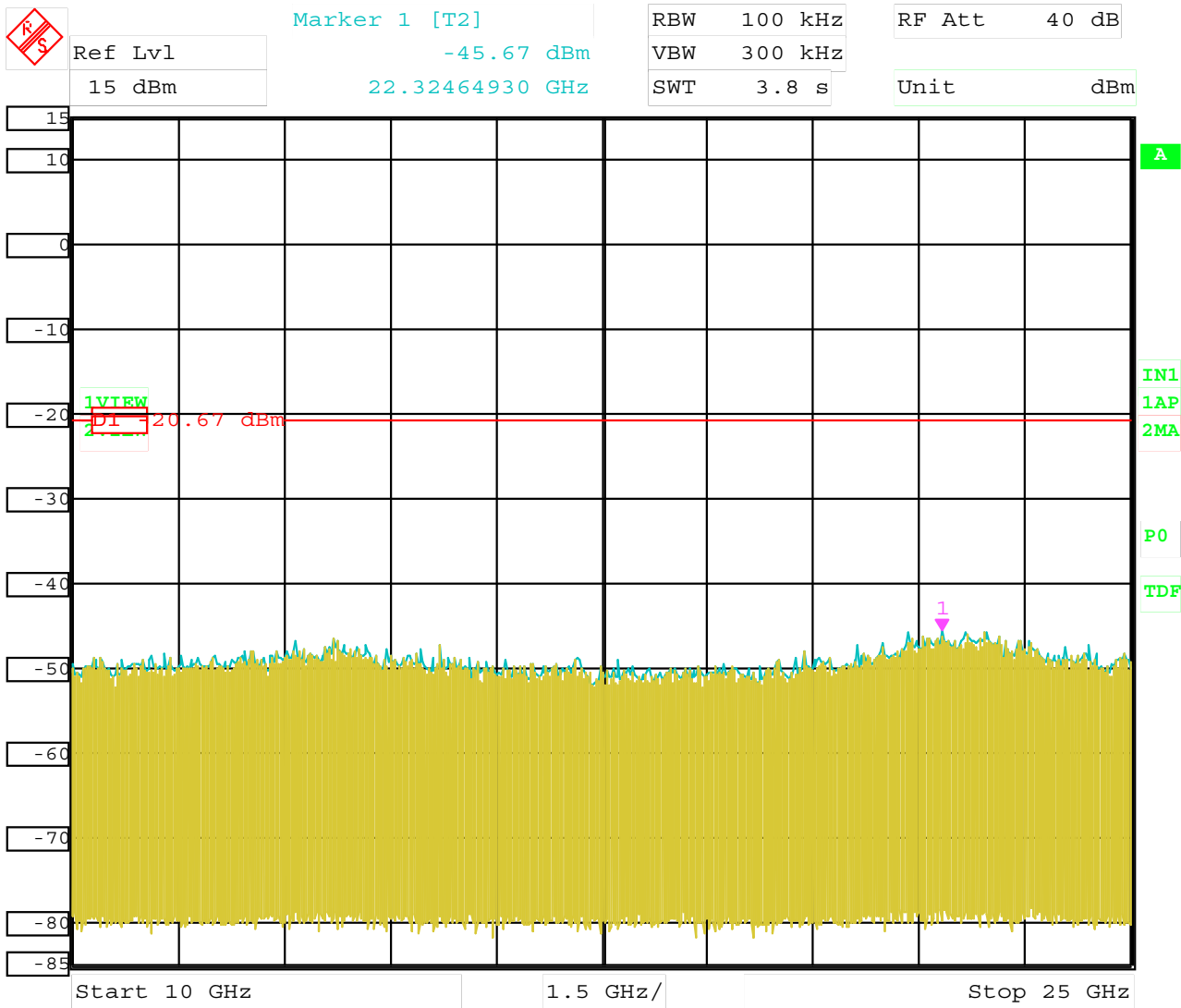
RBW 100 kHz
VBW 300 kHz
SWT 1.75 s

RF Att 40 dB
Unit dBm



Date: 14.APR.2005 12:03:56

RF Antenna Conducted – Channel 6 – 3 GHz to 10 GHz



Date: 14.APR.2005 12:04:35

RF Antenna Conducted – Channel 6 – 10 GHz to 25 GHz



Marker 1 [T2]

RBW 100 kHz

RF Att 40 dB

Ref Lvl

-48.79 dBm

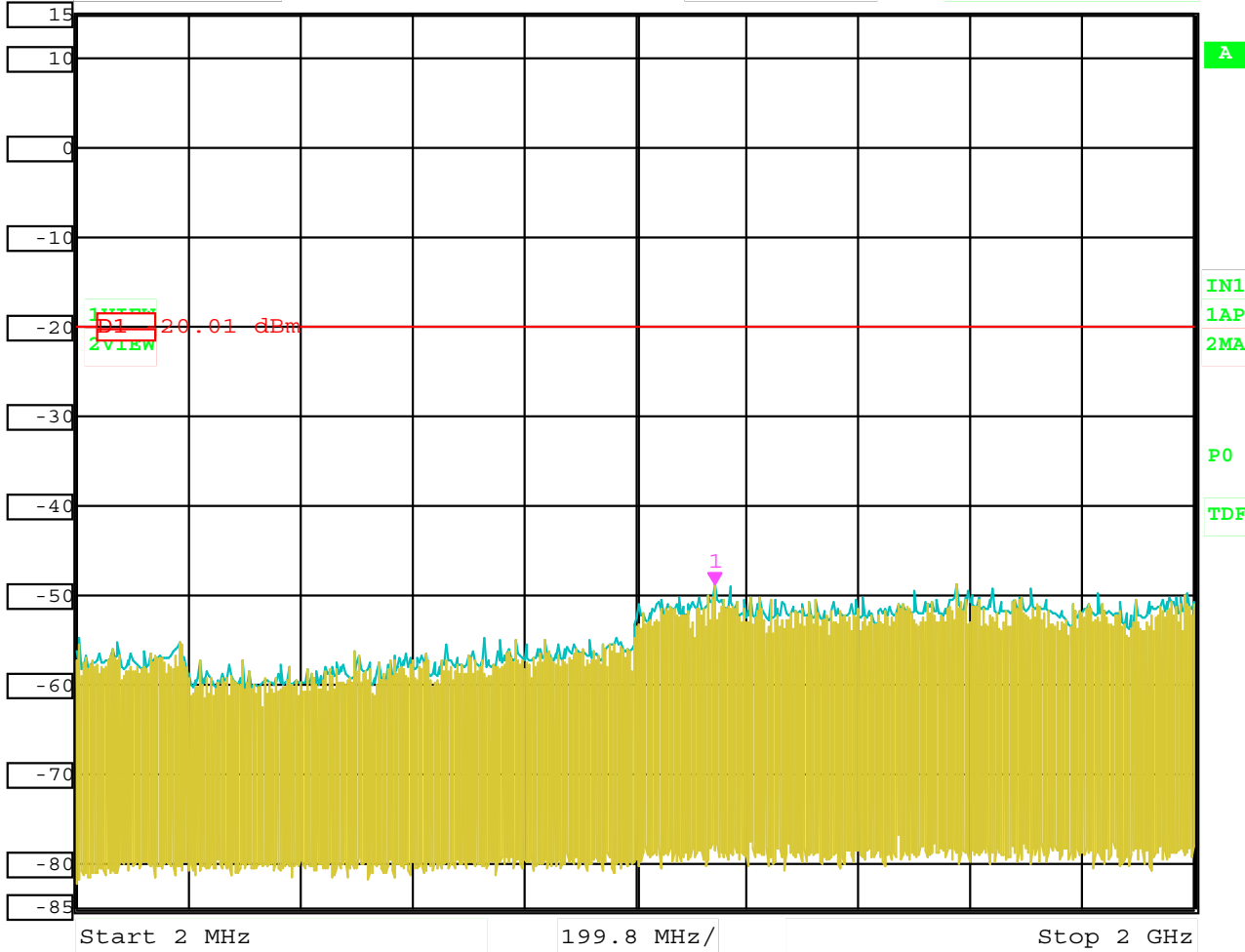
VBW 300 kHz

15 dBm

1.14314228 GHz

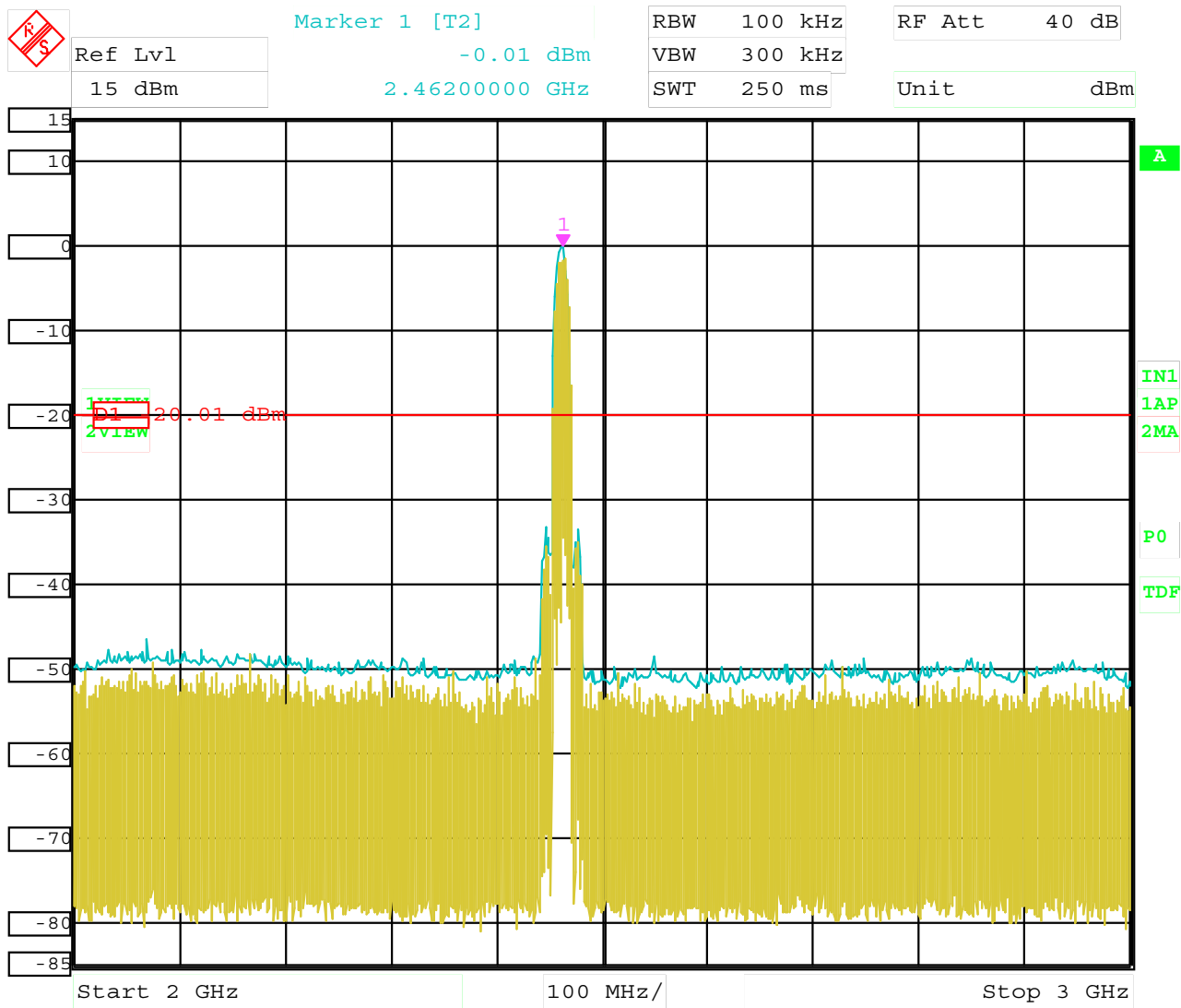
SWT 1.15 s

Unit dBm



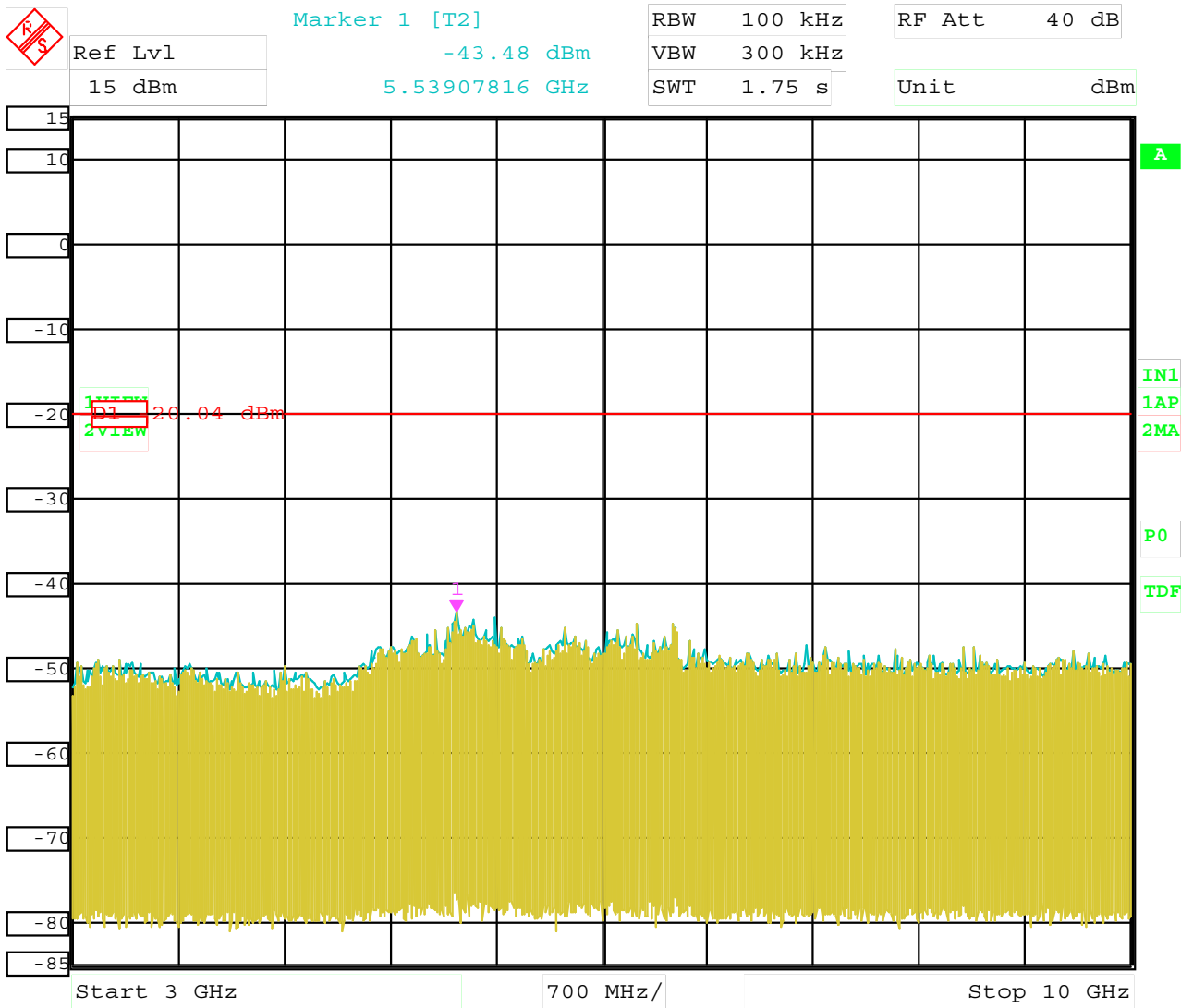
Date: 14.APR.2005 11:58:26

RF Antenna Conducted – Channel 11 – 2 MHz to 2 GHz



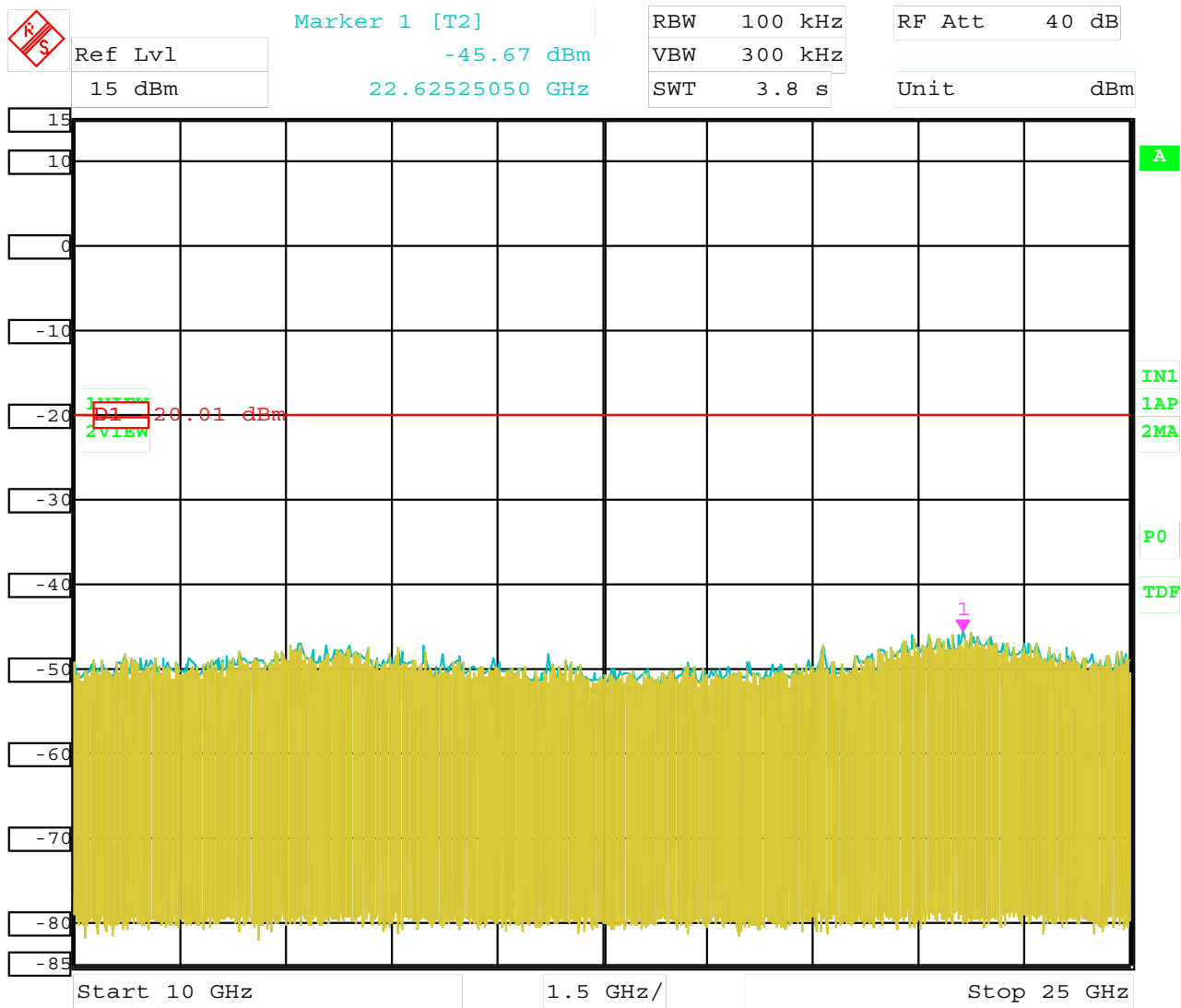
Date: 14.APR.2005 11:57:45

RF Antenna Conducted – Channel 11 – 2 GHz to 3 GHz



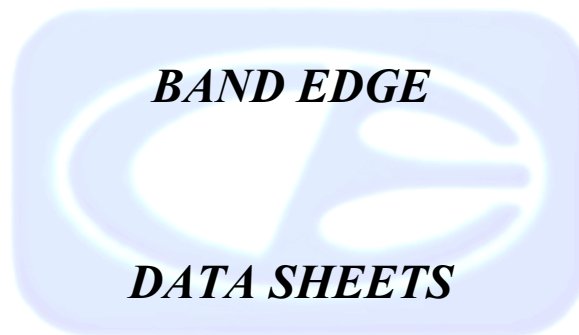
Date: 14.APR.2005 12:08:35

RF Antenna Conducted – Channel 11 – 3 GHz to 10 GHz



Date: 14.APR.2005 11:59:47

RF Antenna Conducted – Channel 11 – 10 GHz to 25 GHz



FCC 15.247

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AB-DPxxx
 Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 1 - 802.11 b Mode

Channel 6 - 802.11 b Mode

Channel 11 - 802.11 b Mode

Transmit Mode - X-Axis worst case for EUT Module

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	105.25	V	--	--	Peak	1.1	225	Fundamental of Channel 1
2412	101.14	V	--	--	Avg	1.1	225	@ 3 meters
2390	55.02	V	74	-18.98	Peak	1.1	225	No Marker Delta Method
2390	44.92	V	54	-9.08	Avg	1.1	225	Method Used
2375.5	53.99	V	74	-20.01	Peak	1.1	225	No Marker Delta Method
2375.2	43.16	V	54	-10.84	Avg	1.1	225	Method Used
2437	105.5	V	--	--	Peak	1.1	225	Fundamental of Channel 6
2437	100.76	V	--	--	Avg	1.1	225	@ 3 meters
2462	104.78	V	--	--	Peak	1.03	225	Fundamental of Channel 11
2462	100.3	V	--	--	Avg	1.03	225	@ 3 meters
2483.5	54.67	V	74	-19.33	Peak	1.03	225	No Marker Delta Method
2483.5	45.33	V	54	-8.67	Avg	1.03	225	Method Used

FCC 15.247

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AB-DPxxx
 Configuration: With P/N: S151AH-2450S Model: 151 Swivel Antenna

Date: 4/13/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 1 - 802.11 b Mode

Channel 6 - 802.11 b Mode

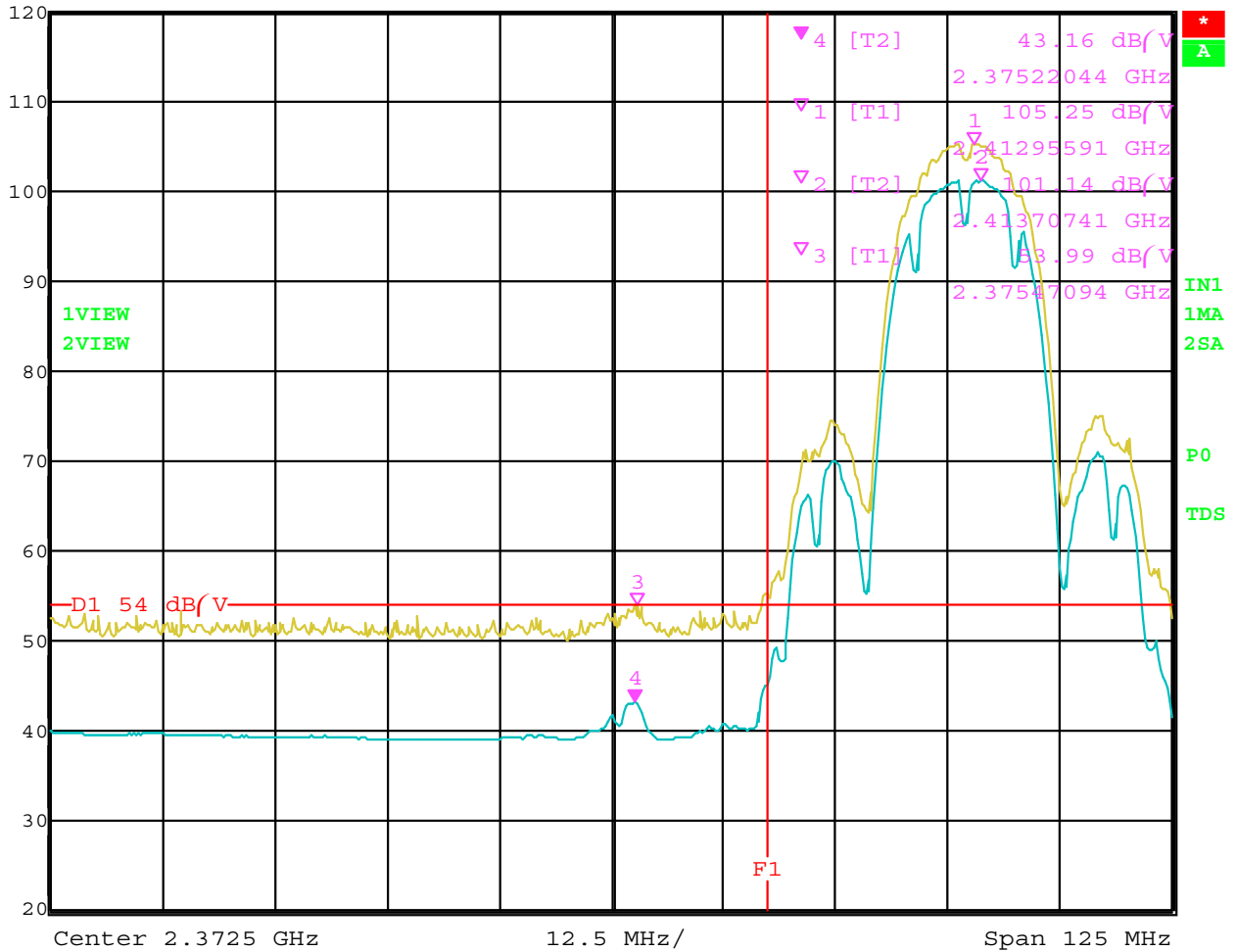
Channel 11 - 802.11 b Mode

Transmit Mode - X-Axis worst case for EUT Module

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	99.48	H	--	--	Peak	1.44	225	Fundamental of Channel 1
2412	95.08	H	--	--	Avg	1.44	225	@ 3 meters
2390	52.83	H	74	-21.17	Peak	1.44	225	
2390	41.26	H	54	-12.74	Avg	1.44	225	
2437	100.76	H	--	--	Peak	1.41	225	Fundamental of Channel 6
2437	96.58	H	--	--	Avg	1.41	225	@ 3 meters
2462	99.92	H	--	--	Peak	1.38	225	Fundamental of Channel 11
2462	95.69	H	--	--	Avg	1.38	225	@ 3 meters
2483.5	52.11	H	74	-21.89	Peak	1.37	225	No Marker Delta Method
2483.5	41.7	H	54	-12.3	Peak	1.37	225	Method Used



Ref Lvl 120 dB/V
Marker 4 [T2] 43.16 dB/V
2.37522044 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

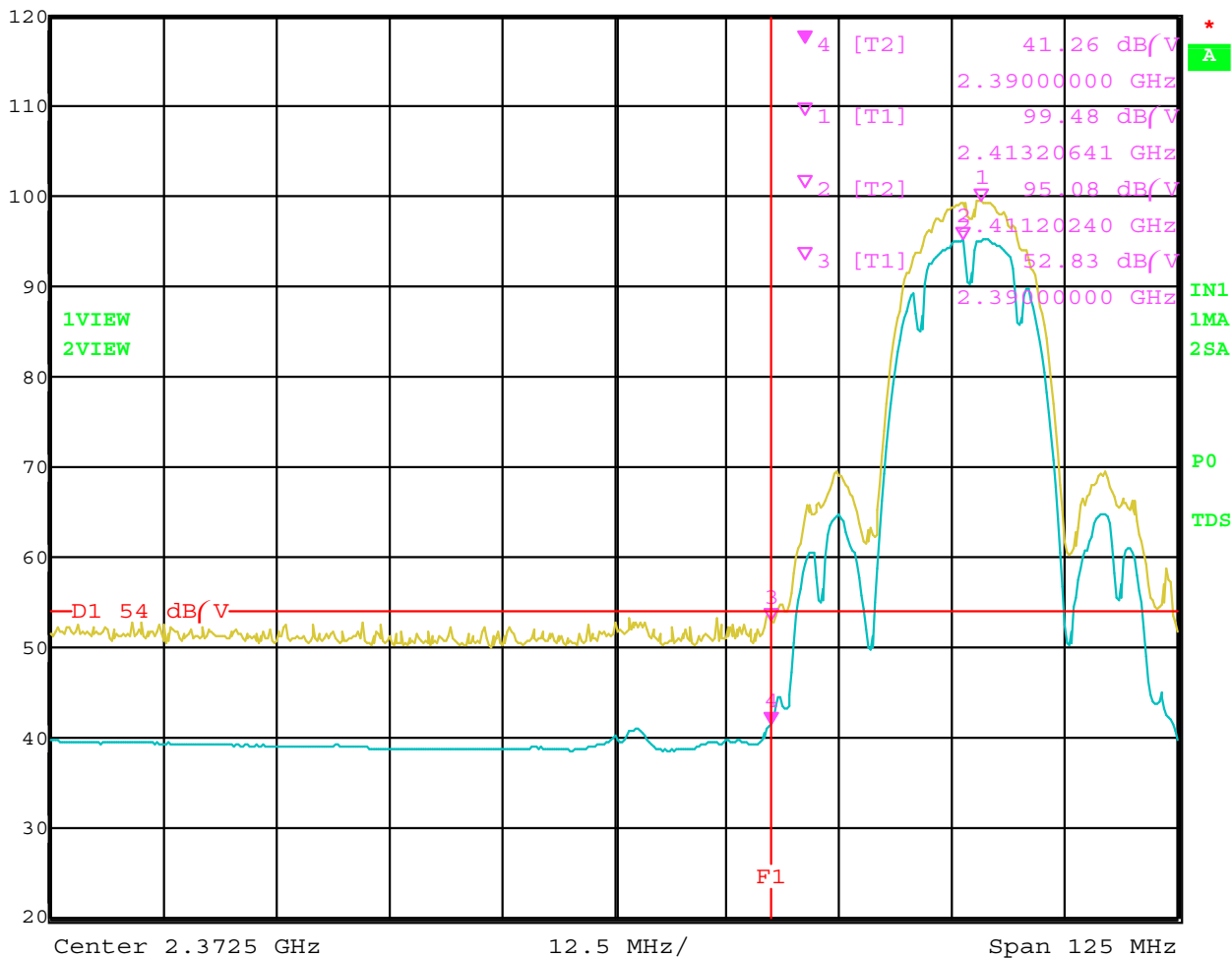


Date: 13.APR.2005 11:55:42

Band Edge – Channel 1 – Vertical Polarization – Swivel Antenna



Ref Lvl 120 dB/V
Marker 4 [T2] 41.26 dB/V
2.39000000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

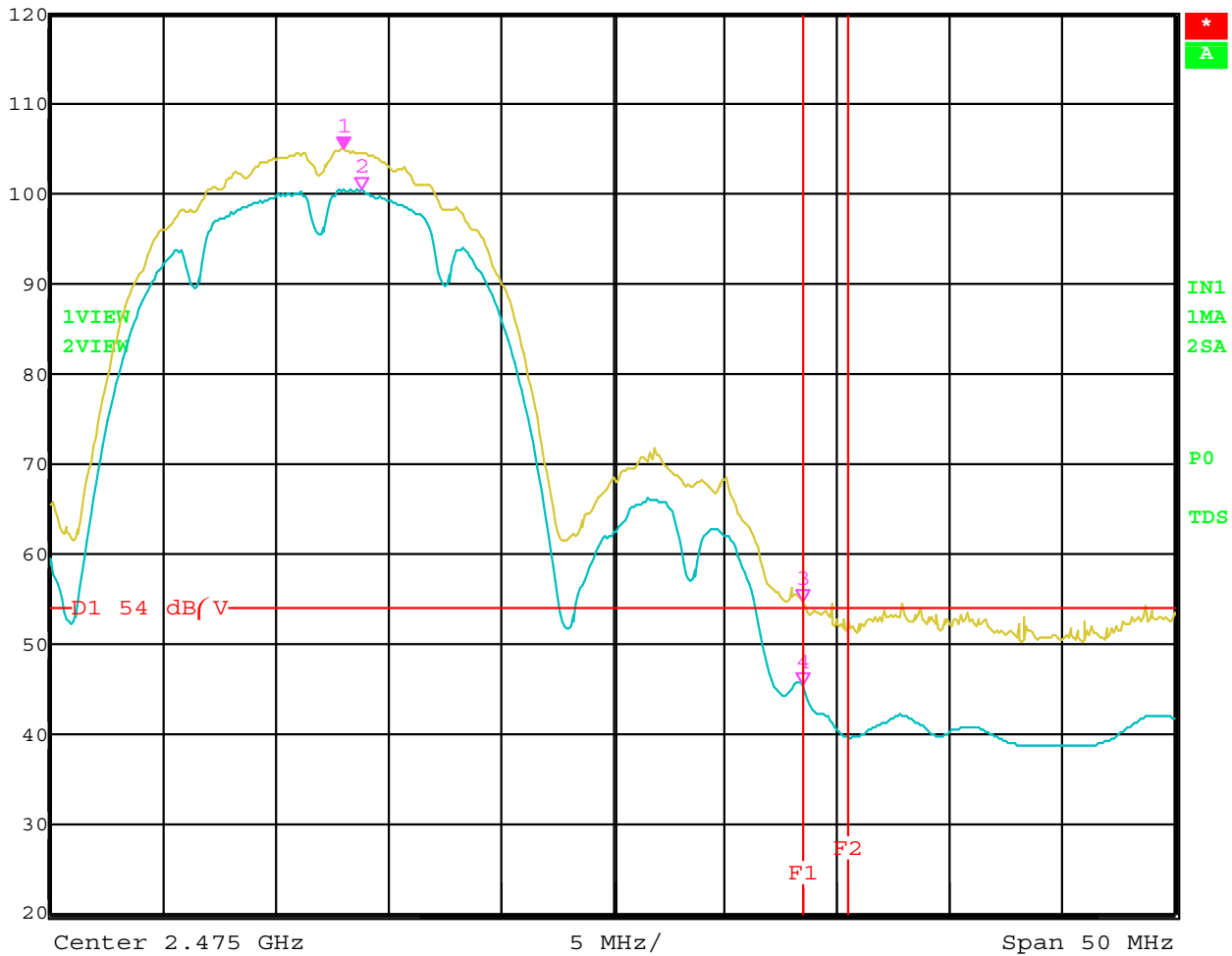


Date: 13.APR.2005 13:37:22

Band Edge – Channel 1 – Horizontal Polarization – Swivel Antenna



Ref Lvl 120 dB/V
Marker 1 [T1] 104.78 dB/V
2.46302605 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 30 dB
Unit dB/V

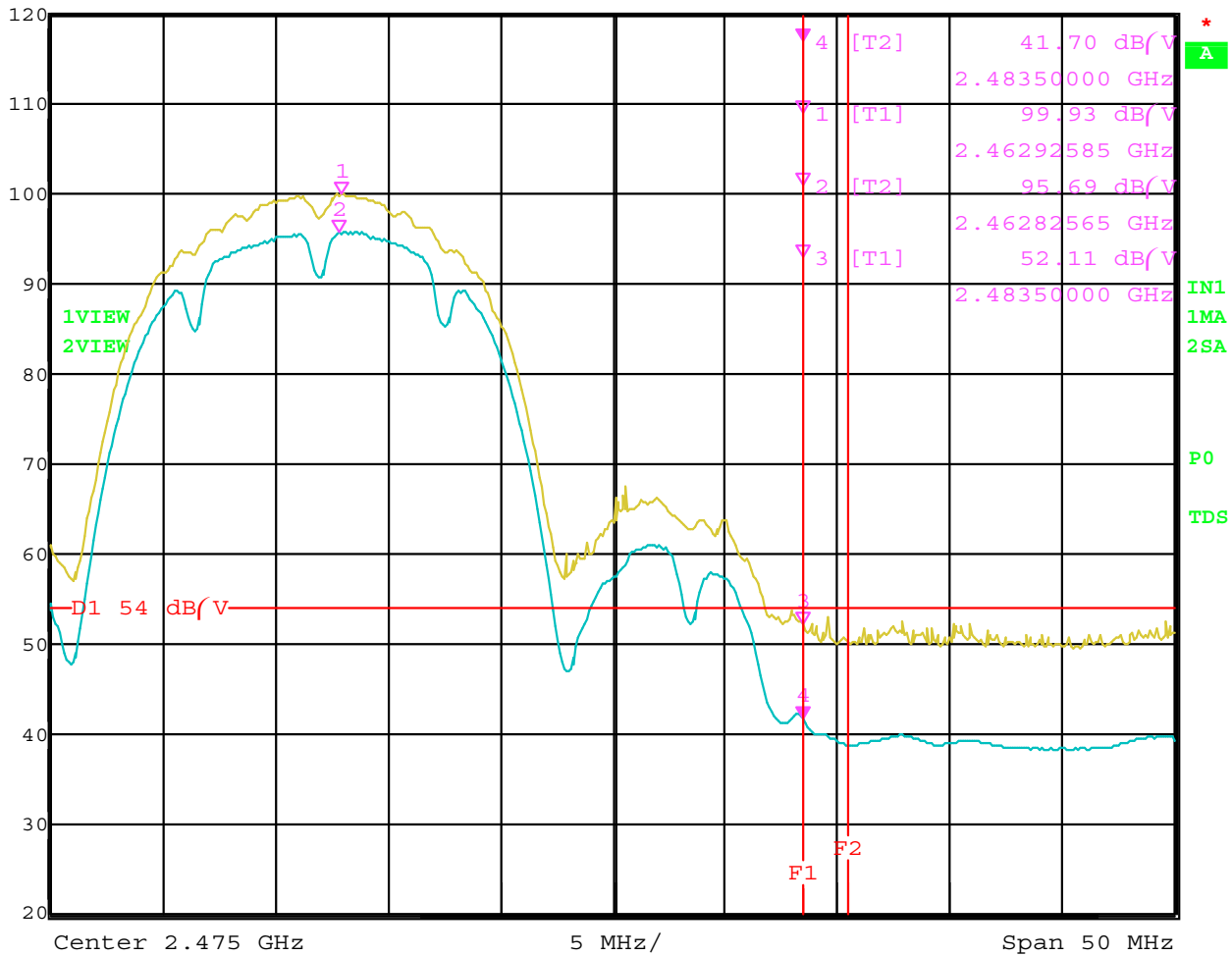


Date: 13.APR.2005 13:14:50

Band Edge – Channel 11 – Vertical Polarization – Swivel Antenna



Ref Lvl 120 dB/V
Marker 4 [T2] 41.70 dB/V
2.48350000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 30 dB
Unit dB/V



Date: 13.APR.2005 13:25:28

Band Edge – Channel 11 – Horizontal Polarization – Swivel Antenna

FCC 15.247

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 1 - 802.11 b Mode

Channel 6 - 802.11 b Mode

Channel 11 - 802.11 b Mode

Transmit Mode - X-Axis worst case for EUT Module

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	104.27	V	--	--	Peak	1.69	225	Fundamental of Channel 1
2412	99.81	V	--	--	Avg	1.69	225	@ 3 meters
2390	54.72	V	74	-19.28	Peak	1.69	225	
2390	44.74	V	54	-9.26	Avg	1.69	225	
2375.2	55.66	V	74	-18.34	Peak	1.69	225	
2375.2	44.39	V	54	-9.61	Avg	1.69	225	
2437	104.37	V	--	--	Peak	1.66	225	Fundamental of Channel 6
2437	100.11	V	--	--	Avg	1.66	225	@ 3 meters
2462	102.58	V	--	--	Peak	1.63	225	Fundamental of Channel 11
2462	98.24	V	--	--	Avg	1.63	225	@ 3 meters
2483.5	55.78	V	74	-18.22	Peak	1.63	225	
2483.5	47.62	V	54	-6.38	Avg	1.63	225	

FCC 15.247

DPAC Technologies
 Airborne WLN-B Module
 Model: ABDB-AN-DPxxx
 Configuration: With P/N:S151M2-L-2450S Swivel Antenna with 2 inch Magnetic Base

Date: 4/15/05
 Lab: B
 Tested By: Kyle Fujimoto

Channel 1 - 802.11 b Mode

Channel 6 - 802.11 b Mode

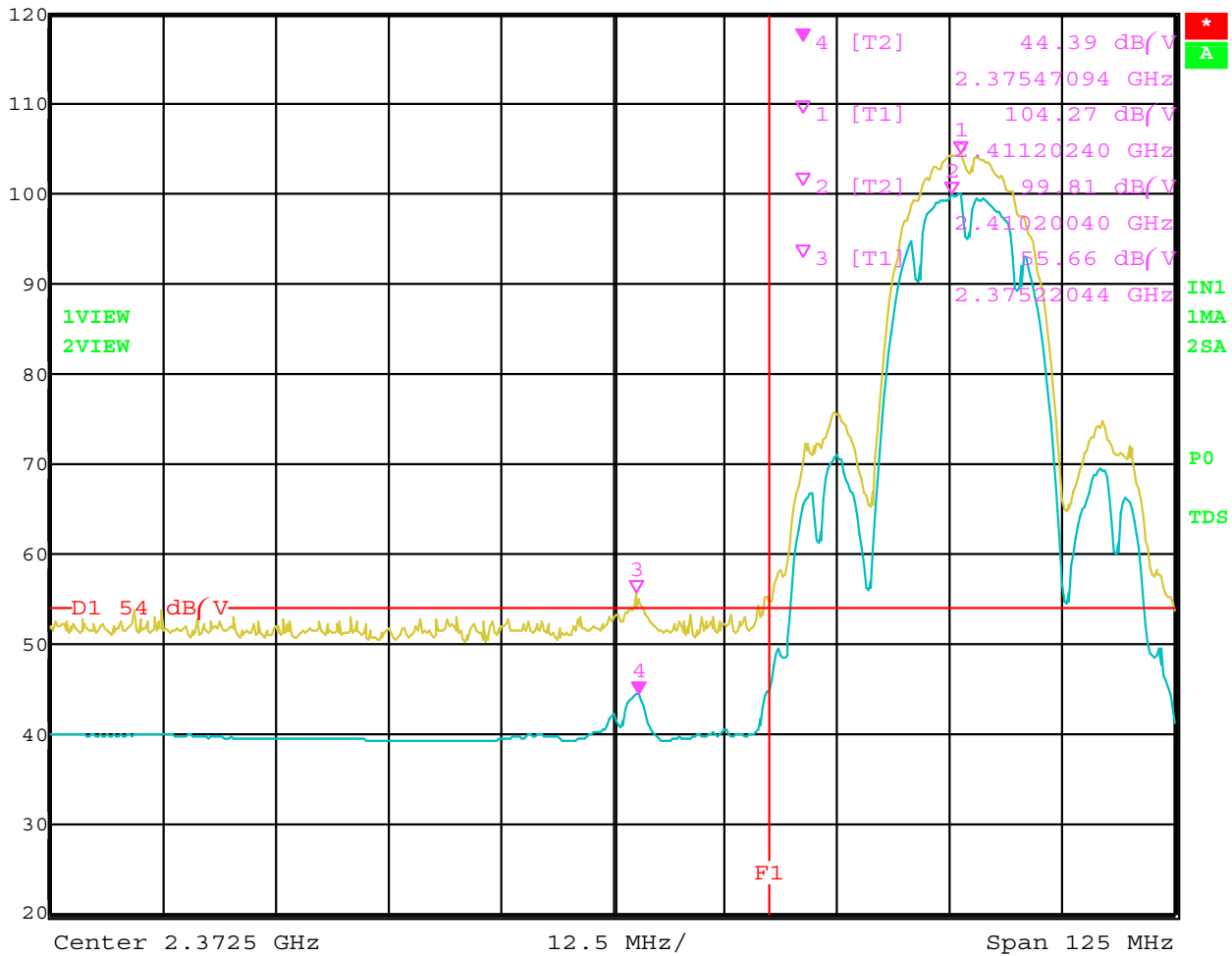
Channel 11 - 802.11 b Mode

Transmit Mode - X-Axis worst case for EUT Module

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	94.73	H	--	--	Peak	2.27	135	Fundamental of Channel 1
2412	90.36	H	--	--	Avg	2.27	135	@ 3 meters
2390	50.98	H	74	-23.02	Peak	2.27	135	
2390	39.36	H	54	-14.64	Avg	2.27	135	
2437	92.3	H	--	--	Peak	1.03	225	Fundamental of Channel 6
2437	88.02	H	--	--	Avg	1.03	225	@ 3 meters
2462	91.92	H	--	--	Peak	1	135	Fundamental of Channel 11
2462	87.73	H	--	--	Avg	1	135	@ 3 meters
2483.5	50.94	H	74	-23.06	Peak	1	135	
2483.5	39.46	H	54	-14.54	Peak	1	135	



Ref Lvl 120 dB/V
Marker 4 [T2] 44.39 dB/V
2.37547094 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

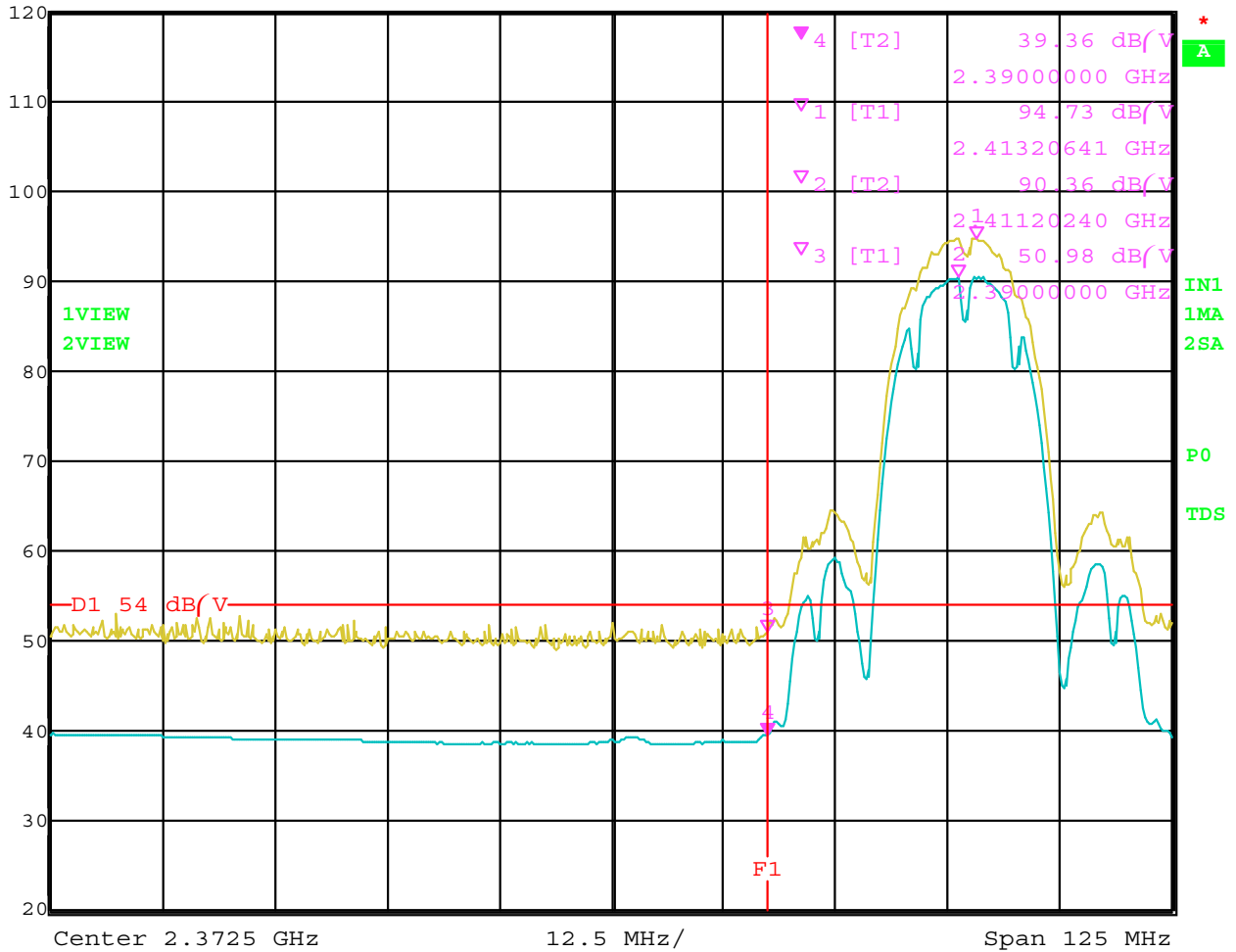


Date: 15.APR.2005 06:36:22

Band Edge – Channel 1 – Vertical Polarization – Swivel Base Antenna



Ref Lvl 120 dB/V
Marker 4 [T2] 39.36 dB/V
2.39000000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

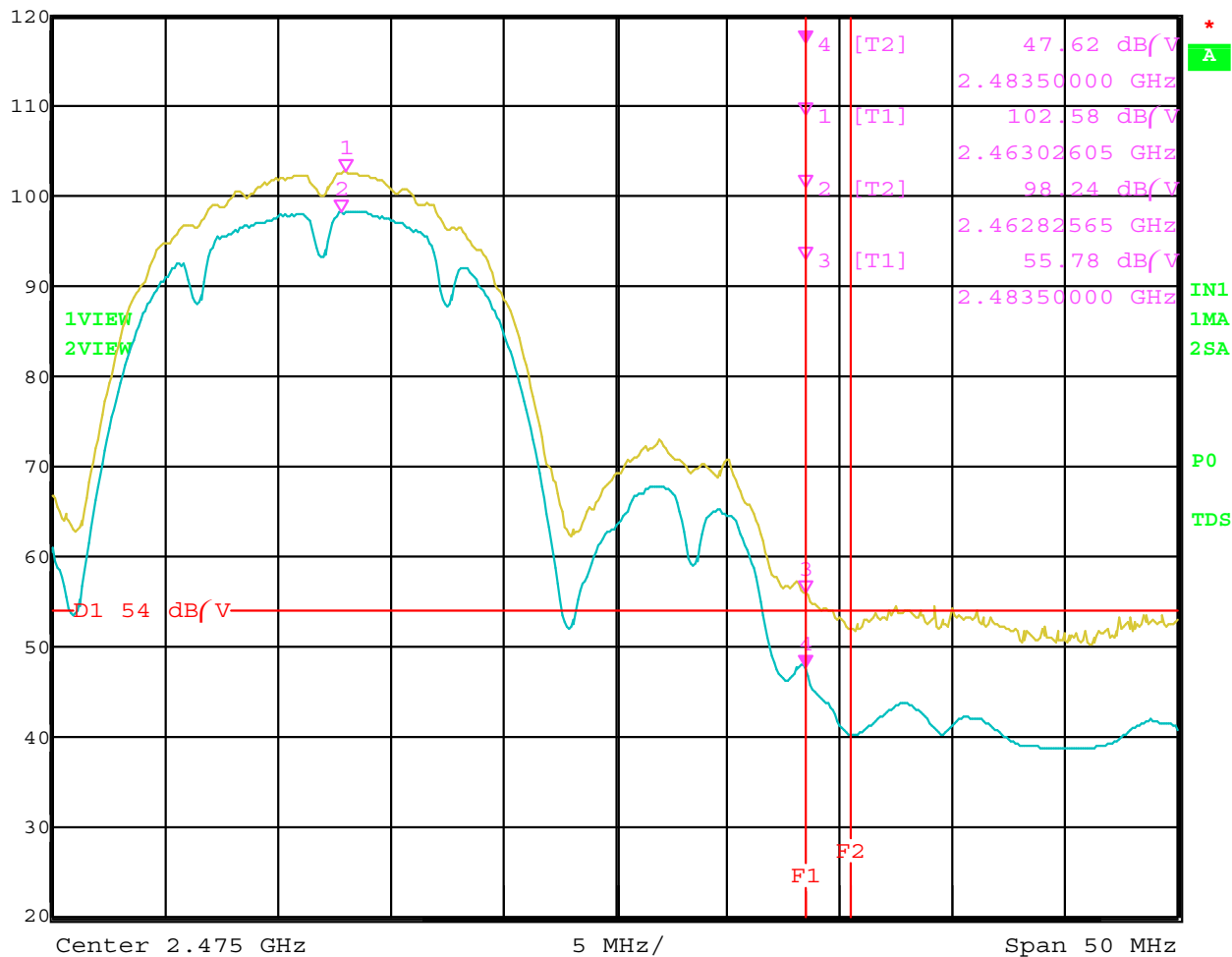


Date: 15.APR.2005 06:56:13

Band Edge – Channel 1 – Horizontal Polarization – Swivel Base Antenna



Ref Lvl 120 dB/V
Marker 4 [T2] 47.62 dB/V
2.48350000 GHz
RBW 1 MHz
RF Att 30 dB
VBW 10 Hz
SWT 12.5 s
Unit dB/V

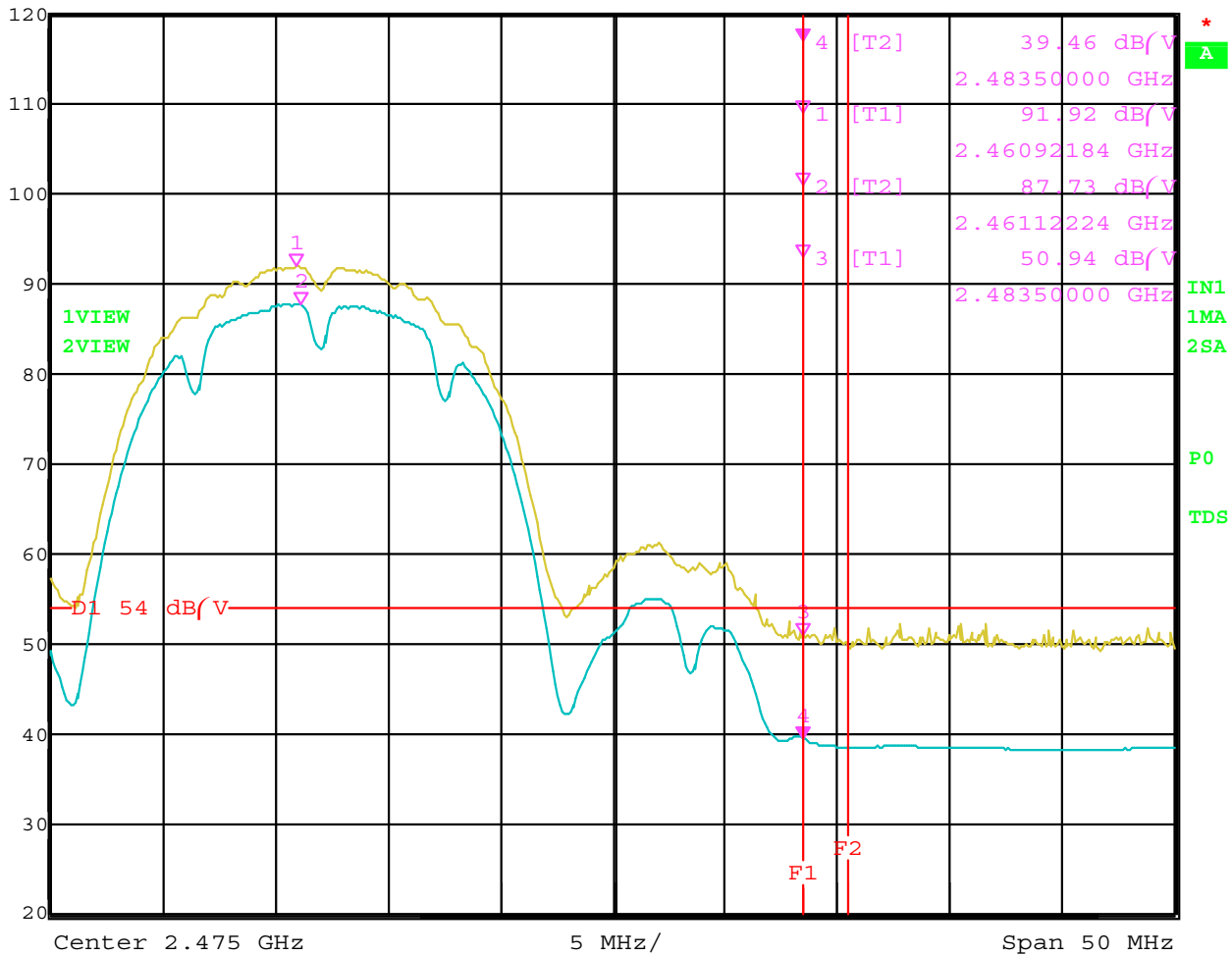


Date: 15.APR.2005 06:42:32

Band Edge – Channel 11 – Vertical Polarization – Swivel Base Antenna



Ref Lvl 120 dB/V
Marker 4 [T2] 39.46 dB/V
2.48350000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 30 dB
Unit dB/V



Date: 15.APR.2005 06:48:22

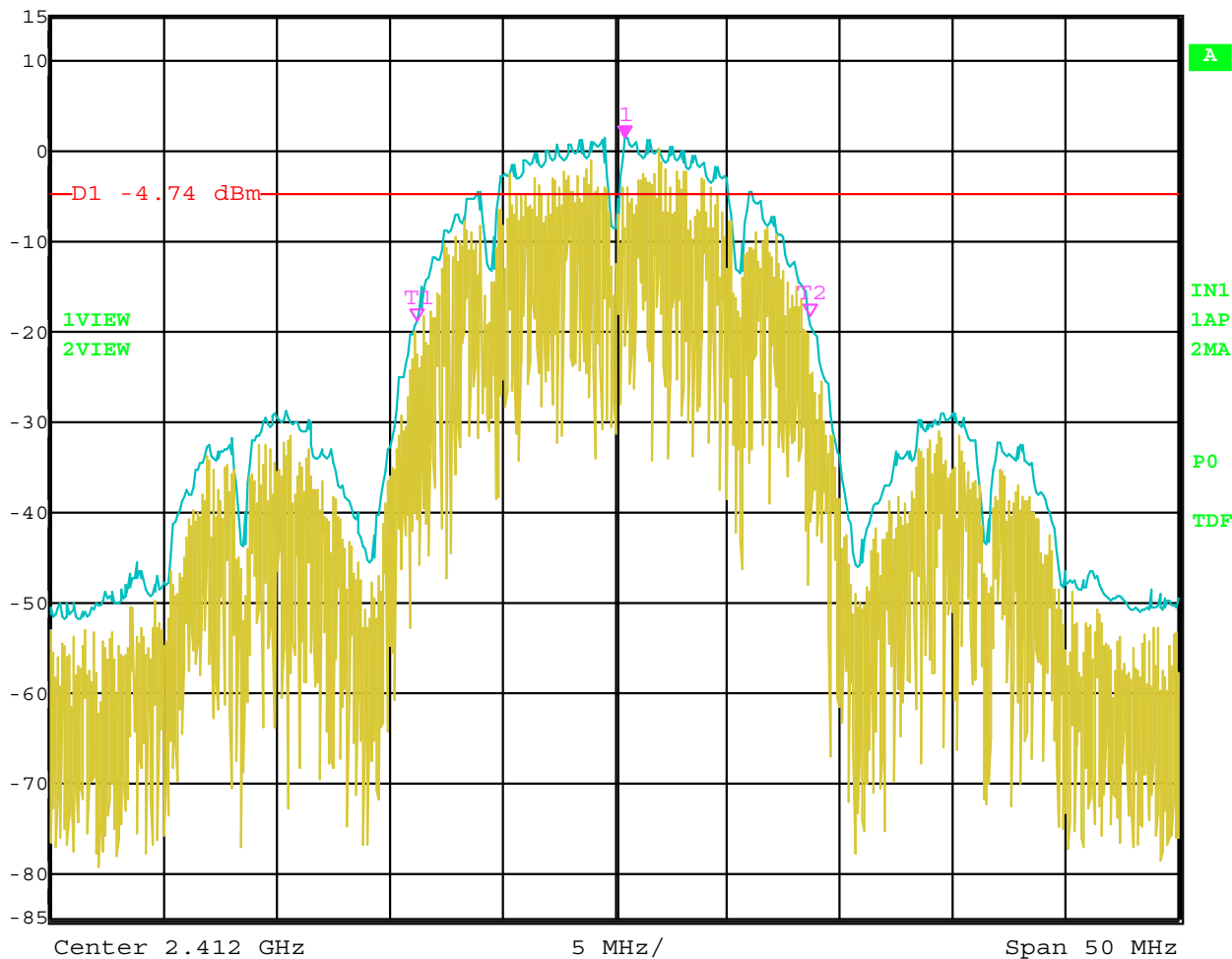
Band Edge – Channel 11 – Horizontal Polarization – Swivel Base Antenna

-20 dB BANDWIDTH

DATA SHEETS



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 17.43486974 MHz	SWT	12.5 ms	Unit	dBm

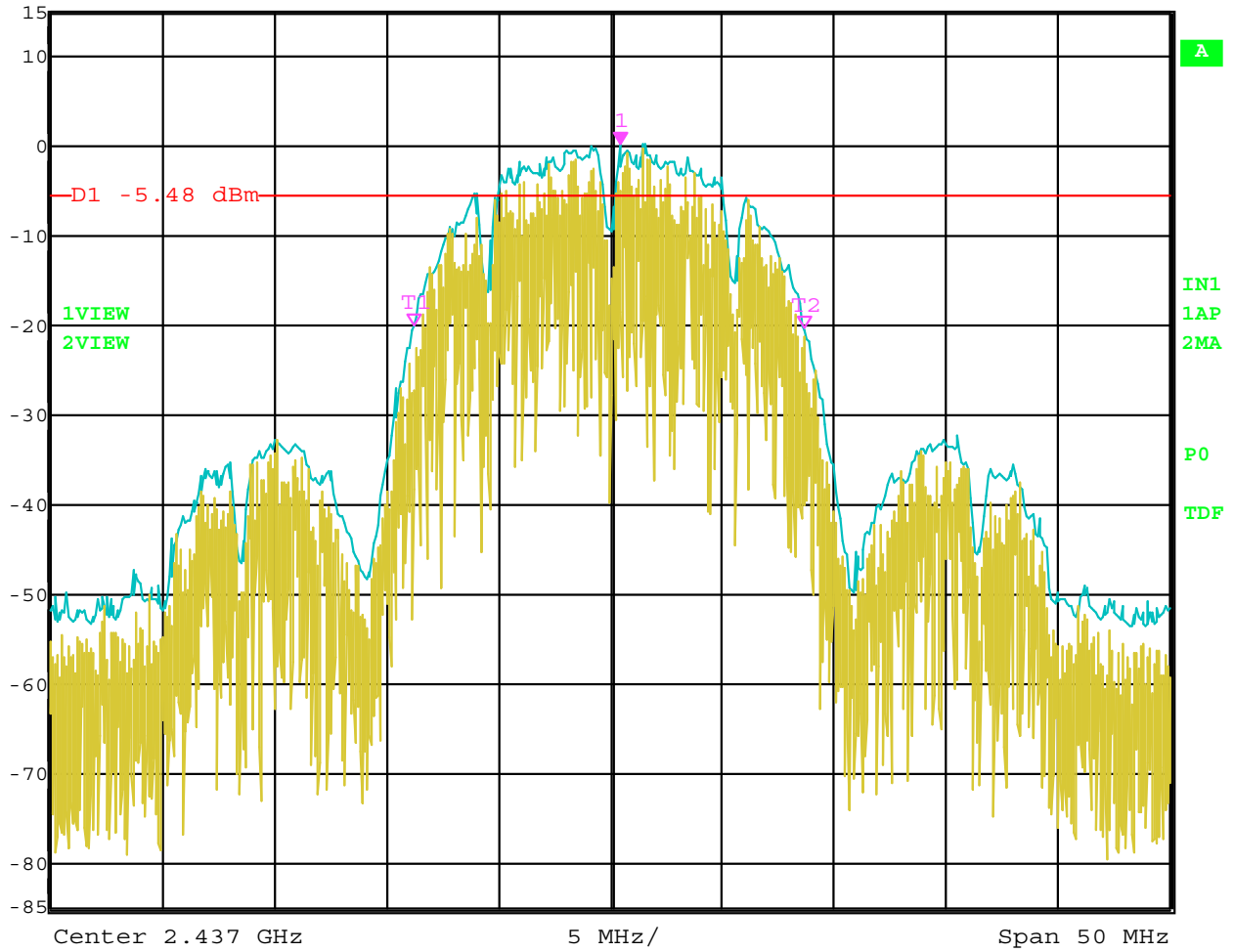


Date: 14.APR.2005 11:48:16

Bandwidth 20 dB – Channel 1



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 17.43486974 MHz	SWT	12.5 ms	Unit	dBm

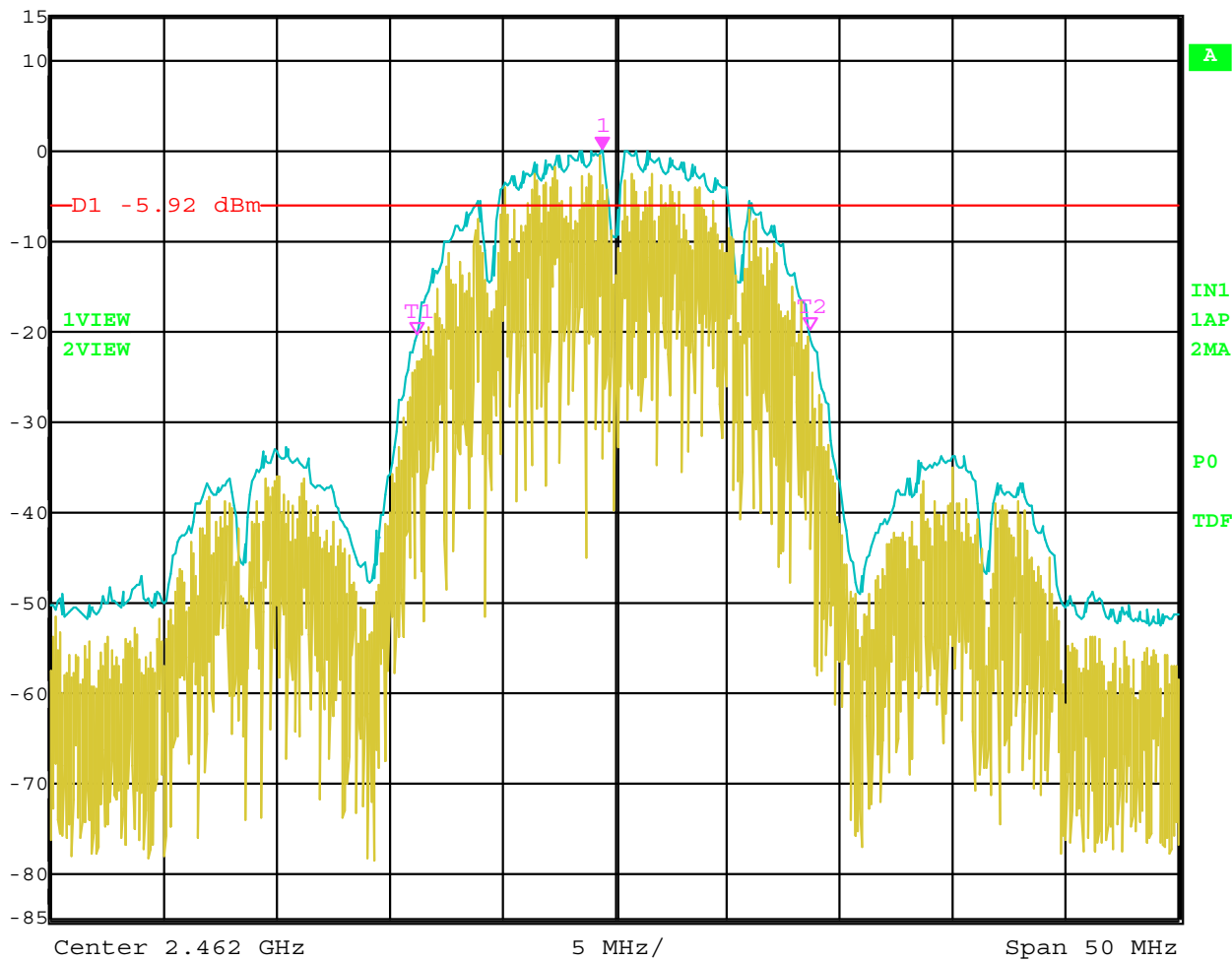


Date: 14.APR.2005 11:50:45

Bandwidth 20 dB – Channel 6



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 17.43486974 MHz	SWT	12.5 ms	Unit	dBm



Date: 14.APR.2005 11:53:59

Bandwidth 20 dB – Channel 11