

APPENDIX E

DATA SHEETS

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.61	V	74	-20.39	Peak	2.79	135	
4824	50.96	V	54	-3.04	Avg	2.79	135	
7236	50.25	V	74	-23.75	Peak	2.21	180	
7236	36.37	V	54	-17.63	Avg	2.21	180	
9648	53.67	V	--	--	Peak	1.88	225	Not in Restricted Band
9648	37.16	V	--	--	Avg	1.88	225	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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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Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.21	H	74	-20.79	Peak	2.46	180	
4824	49.98	H	54	-4.02	Avg	2.46	180	
7236	48.81	H	74	-25.19	Peak	2.32	135	
7236	36.52	H	54	-17.48	Avg	2.32	135	
9648	51.38	H	--	--	Peak	2.67	180	Not in Restricted Band
9648	38.91	H	--	--	Avg	2.67	180	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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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Y-Axis**Channel 1 - 802.11 b****Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	52.39	V	74	-21.61	Peak	2.17	225	
4824	50.38	V	54	-3.62	Avg	2.17	225	
7236	40.41	V	74	-33.59	Peak	2.17	45	
7236	27.86	V	54	-26.14	Avg	2.17	45	
9648	41.29	V	--	--	Peak	2.17	180	Not in Restricted Band
9648	28.87	V	--	--	Avg	2.17	180	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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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Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	52.16	H	74	-21.84	Peak	2.32	315	
4824	48.77	H	54	-5.23	Avg	2.32	315	
7236	49.2	H	74	-24.8	Peak	2.59	315	
7236	36.52	H	54	-17.48	Avg	2.59	315	
9648	49.66	H	--	--	Peak	2.55	225	Not in Restricted Band
9648	37.1	H	--	--	Avg	2.55	225	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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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Z-Axis**Channel 1 - 802.11 b****Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	52.66	V	74	-21.34	Peak	1.9	135	
4824	49.87	V	54	-4.13	Avg	1.9	135	
7236	48.7	V	74	-25.3	Peak	1.66	135	
7236	36.45	V	54	-17.55	Avg	1.66	135	
9648	50.43	V	--	--	Peak	1.68	315	Not in Restricted Band
9648	37.33	V	--	--	Avg	1.68	315	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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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Z-Axis**Channel 1 - 802.11 b****Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.12	H	74	-20.88	Peak	1.33	180	
4824	49.97	H	54	-4.03	Avg	1.33	180	
7236	46.63	H	74	-27.37	Peak	1.56	180	
7236	33.58	H	54	-20.42	Avg	1.56	180	
9648	51.6	H	--	--	Peak	2.04	90	Not in Restricted Band
9648	37.13	H	--	--	Avg	2.04	90	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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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X-Axis**Channel 6 - 802.11 b****Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	52.58	V	74	-21.42	Peak	1.88	180	
4874	50.5	V	54	-3.5	Avg	1.88	180	
7311	50.01	V	74	-23.99	Peak	1.88	180	
7311	36.66	V	54	-17.34	Avg	1.88	180	
9748	49.41	V	--	--	Peak	2.06	180	Not in Restricted Band
9748	37.48	V	--	--	Avg	2.06	180	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

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Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	52.28	H	74	-21.72	Peak	2.55	135	
4874	49.45	H	54	-4.55	Avg	2.55	135	
7311	49.19	H	74	-24.81	Peak	2.33	180	
7311	36.61	H	54	-17.39	Avg	2.33	180	
9748	50.46	H	--	--	Peak	2.82	90	Not in Restricted Band
9748	38.21	H	--	--	Avg	2.82	90	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	51.67	V	74	-22.33	Peak	1.44	180	
4874	49.51	V	54	-4.49	Avg	1.44	180	
7311	40.52	V	74	-33.48	Peak	1.89	135	
7311	27.53	V	54	-26.47	Avg	1.89	135	
9748	41.9	V	--	--	Peak	1.89	45	Not in Restricted Band
9748	29.31	V	--	--	Avg	1.89	45	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

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Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	52.82	H	74	-21.18	Peak	3.12	315	
4874	49.9	H	54	-4.1	Avg	3.12	315	
7311	50.2	H	74	-23.8	Peak	3.12	315	
7311	36.76	H	54	-17.24	Avg	3.12	315	
9748	50.66	H	--	--	Peak	3.12	90	Not in Restricted Band
9748	37.43	H	--	--	Avg	3.12	90	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

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Date: 05/17/06

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	49.39	V	74	-24.61	Peak	2.27	90	
4874	45.15	V	54	-8.85	Avg	2.27	90	
7311	46.38	V	74	-27.62	Peak	2.23	90	
7311	34.28	V	54	-19.72	Avg	2.23	90	
9748	48.72	V	--	--	Peak	2.23	135	Not in Restricted Band
9748	35.78	V	--	--	Avg	2.23	135	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059	51.26	V	--	--	Peak			No Emissions
17059	38.37	V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

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Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	52.67	H	74	-21.33	Peak	1.73	315	
4874	50.32	H	54	-3.68	Avg	1.73	315	
7311	46.61	H	74	-27.39	Peak	1.99	135	
7311	33.97	H	54	-20.03	Avg	1.99	135	
9748	48.16	H	--	--	Peak	1.99	135	Not in Restricted Band
9748	35.98	H	--	--	Avg	1.99	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

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Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	52.65	V	74	-21.35	Peak	1.76	225	
4924	50.84	V	54	-3.16	Avg	1.76	225	
7386	49.34	V	74	-24.66	Peak	2.02	135	
7386	37.26	V	54	-16.74	Avg	2.02	135	
9848	49.95	V	--	--	Peak	1.82	315	Not in Restricted Band
9848	36.8	V	--	--	Avg	1.82	315	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

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Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	53.32	H	74	-20.68	Peak	2.44	135	
4924	50.19	H	54	-3.81	Avg	2.44	135	
7386	49.46	H	74	-24.54	Peak	2.55	135	
7386	37.1	H	54	-16.9	Avg	2.55	135	
9848	49.09	H	--	--	Peak	2.55	180	Not in Restricted Band
9848	36.91	H	--	--	Avg	2.55	180	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

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Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	53.59	V	74	-20.41	Peak	1.58	135	
4924	50.96	V	54	-3.04	Avg	1.58	135	
7386	49.4	V	74	-24.6	Peak	1.85	90	
7386	37.05	V	54	-16.95	Avg	1.85	90	
9848	49.01	V	--	--	Peak	1.85	225	Not in Restricted Band
9848	36.88	V	--	--	Avg	1.85	225	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	53.59	H	74	-20.41	Peak	2.53	0	
4924	50.55	H	54	-3.45	Avg	2.53	0	
7386	50.23	H	74	-23.77	Peak	2.53	135	
7386	37.04	H	54	-16.96	Avg	2.53	135	
9848	49.41	H	--	--	Peak	2.65	315	Not in Restricted Band
9848	36.83	H	--	--	Avg	2.65	315	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	52.57	V	74	-21.43	Peak	1.99	135	
4924	49.07	V	54	-4.93	Avg	1.99	135	
7386	47.07	V	74	-26.93	Peak	1.36	45	
7386	33.94	V	54	-20.06	Avg	1.36	45	
9848	47.14	V	--	--	Peak	1.61	270	Not in Restricted Band
9848	34.77	V	--	--	Avg	1.61	270	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	51.89	H	74	-22.11	Peak	1.73	315	
4924	49.6	H	54	-4.4	Avg	1.73	315	
7386	48.75	H	74	-25.25	Peak	2.03	225	
7386	33.82	H	54	-20.18	Avg	2.03	225	
9848	49.34	H	--	--	Peak	1.64	270	Not in Restricted Band
9848	35.32	H	--	--	Avg	1.64	270	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	51.27	V	74	-22.73	Peak	3.03	270	
4824	39.16	V	54	-14.84	Avg	3.03	270	
7236	48.93	V	74	-25.07	Peak	2.57	45	
7236	36.28	V	54	-17.72	Avg	2.57	45	
9648	50.35	V	--	--	Peak	2.58	45	Not in Restricted Band
9648	37.19	V	--	--	Avg	2.58	45	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	49.22	H	74	-24.78	Peak	2.56	135	
4824	34.92	H	54	-19.08	Avg	2.56	135	
7236	48.75	H	74	-25.25	Peak	2.76	135	
7236	36.31	H	54	-17.69	Avg	2.76	135	
9648	49.15	H	--	--	Peak	2.98	180	Not in Restricted Band
9648	37.42	H	--	--	Avg	2.98	180	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	49.17	V	74	-24.83	Peak	1.62	225	
4824	34.75	V	54	-19.25	Avg	1.62	225	
7236	48.81	V	74	-25.19	Peak	2.56	270	
7236	36.36	V	54	-17.64	Avg	2.56	270	
9648	49.81	V	--	--	Peak	2.04	135	Not in Restricted Band
9648	37.46	V	--	--	Avg	2.04	135	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	44.27	H	74	-29.73	Peak	3.03	135	
4824	30.5	H	54	-23.5	Avg	3.03	135	
7236	48.4	H	74	-25.6	Peak	3.03	270	
7236	36.49	H	54	-17.51	Avg	3.03	270	
9648	49.38	H	--	--	Peak	2.73	135	Not in Restricted Band
9648	37.19	H	--	--	Avg	2.73	135	Not in Restricted Band
12060		H	74	-74	Peak			
12060		H	54	-54	Avg			
14472		H	74	-74	Peak			
14472		H	54	-54	Avg			
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	38.56	V	74	-35.44	Peak	1.25	45	
4824	26.85	V	54	-27.15	Avg	1.25	45	
7236	36.68	V	74	-37.32	Peak	1	135	
7236	24.51	V	54	-29.49	Avg	1	135	
9648	39.58	V	--	--	Peak	1	180	Not in Restricted Band
9648	27.31	V	--	--	Avg	1	180	Not in Restricted Band
12060		V	74	-74	Peak			
12060		V	54	-54	Avg			
14472		V	74	-74	Peak			
14472		V	54	-54	Avg			
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	45.75	H	74	-28.25	Peak	1.25	45	
4824	29.15	H	54	-24.85	Avg	1.25	45	
7236	37.24	H	74	-36.76	Peak	1	180	
7236	24.5	H	54	-29.5	Avg	1	180	
9648	39.88	H	--	--	Peak	1	135	Not in Restricted Band
9648	27.23	H	--	--	Avg	1	135	Not in Restricted Band
12060		H	74	-74	Peak			
12060		H	54	-54	Avg			
14472		H	74	-74	Peak			
14472		H	54	-54	Avg			
16884		H	--	--	Peak			Not in Restricted Band
16884		H	--	--	Avg			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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	52.98	V	74	-21.02	Peak	2.85	315	
4874	39.15	V	54	-14.85	Avg	2.85	315	
7311	49.1	V	74	-24.9	Peak	2.59	135	
7311	36.65	V	54	-17.35	Avg	2.59	135	
9748	50.45	V	--	--	Peak	2.51	135	Not in Restricted Band
9748	37.72	V	--	--	Avg	2.51	135	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emission
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	49.61	H	74	-24.39	Peak	2.99	135	
4874	35.82	H	54	-18.18	Avg	2.99	135	
7311	48.75	H	74	-25.25	Peak	2.79	135	
7311	36.68	H	54	-17.32	Avg	2.79	135	
9748	49.88	H	--	--	Peak	2.33	135	Not in Restricted Band
9748	37.49	H	--	--	Avg	2.33	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emission
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	46.9	V	74	-27.1	Peak	1.37	45	
4874	33.82	V	54	-20.18	Avg	1.37	45	
7311	49.45	V	74	-24.55	Peak	1.27	180	
7311	36.58	V	54	-17.42	Avg	1.27	180	
9748	50.08	V	--	--	Peak	1.97	180	Not in Restricted Band
9748	37.63	V	--	--	Avg	1.97	180	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	45.57	H	74	-28.43	Peak	3.06	90	
4874	30.23	H	54	-23.77	Avg	3.06	90	
7311	49.71	H	74	-24.29	Peak	2.44	135	
7311	36.59	H	54	-17.41	Avg	2.44	135	
9748	49.24	H	--	--	Peak	2.64	135	Not in Restricted Band
9748	37.43	H	--	--	Avg	2.64	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	39.36	V	74	-34.64	Peak	1	180	
4874	26.7	V	54	-27.3	Avg	1	180	
7311	37.09	V	74	-36.91	Peak	1	315	
7311	24.74	V	54	-29.26	Avg	1	315	
9748	40.06	V	--	--	Peak	1	315	Not in Restricted Band
9748	27.66	V	--	--	Avg	1	315	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	45.79	H	74	-28.21	Peak	2.36	135	
4874	31.06	H	54	-22.94	Avg	2.36	135	
7311	37.83	H	74	-36.17	Peak	1.72	0	
7311	24.9	H	54	-29.1	Avg	1.72	0	
9748	39.74	H	--	--	Peak	1.92	135	Not in Restricted Band
9748	27.55	H	--	--	Avg	1.92	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	57.88	V	74	-16.12	Peak	2.61	135	
4924	41.7	V	54	-12.3	Avg	2.61	135	
7386	49.41	V	74	-24.59	Peak	2.62	135	
7386	36.96	V	54	-17.04	Avg	2.62	135	
9848	48.8	V	--	--	Peak	2.62	135	Not in Restricted Band
9848	36.73	V	--	--	Avg	2.62	135	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	51.46	H	74	-22.54	Peak	2.31	225	
4924	38.54	H	54	-15.46	Avg	2.31	225	
7386	49.45	H	74	-24.55	Peak	3.15	180	
7386	37.17	H	54	-16.83	Avg	3.15	180	
9848	49.37	H	--	--	Peak	3.15	225	Not in Restricted Band
9848	36.74	H	--	--	Avg	3.15	225	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	52.22	V	74	-21.78	Peak	2.19	135	
4924	36.92	V	54	-17.08	Avg	2.19	135	
7386	49.4	V	74	-24.6	Peak	2.06	135	
7386	36.94	V	54	-17.06	Avg	2.06	135	
9848	48.94	V	--	--	Peak	1.94	135	Not in Restricted Band
9848	36.72	V	--	--	Avg	1.94	135	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	48.17	H	74	-25.83	Peak	3.03	180	
4924	31.63	H	54	-22.37	Avg	3.03	180	
7386	50.37	H	74	-23.63	Peak	2.58	225	
7386	36.99	H	54	-17.01	Avg	2.58	225	
9848	50.82	H	--	--	Peak	2.58	135	Not in Restricted Band
9848	36.76	H	--	--	Avg	2.58	135	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	42.85	V	74	-31.15	Peak	2.17	180	
4924	29.96	V	54	-24.04	Avg	2.17	180	
7386	46.31	V	74	-27.69	Peak	2.65	135	
7386	34.09	V	54	-19.91	Avg	2.65	135	
9848	47.47	V	--	--	Peak	2.19	135	Not in Restricted Band
9848	34.8	V	--	--	Avg	2.19	135	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/17/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	47.97	H	74	-26.03	Peak	2.31	135	
4924	33.62	H	54	-20.38	Avg	2.31	135	
7386	44.36	H	74	-29.64	Peak	1.59	180	
7386	34.06	H	54	-19.94	Avg	1.59	180	
9848	46.76	H	--	--	Peak	1.59	135	Not in Restricted Band
9848	35.45	H	--	--	Avg	1.59	135	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151M2-L-2450S Antenna

Date: 05/09/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	55.56	V	74	-18.44	Peak	1.81	135	
4824	53.14	V	54	-0.86	Avg	1.81	135	
7236	49.87	V	74	-24.13	Peak	1.44	135	
7236	36.47	V	54	-17.53	Avg	1.44	135	
9648	51.88	V	--	--	Peak	1.44	135	Not in Restricted Band
9648	37.12	V	--	--	Avg	1.44	135	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151M2-L-2450S Antenna

Date: 05/09/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.62	H	74	-20.38	Peak	2.29	180	
4824	52.58	H	54	-1.42	Avg	2.29	180	
7236	51.05	H	74	-22.95	Peak	1.68	180	
7236	36.47	H	54	-17.53	Avg	1.68	180	
9648	49.36	H	--	--	Peak	1.68	225	Not in Restricted Band
9648	37.14	H	--	--	Avg	1.68	225	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	55.75	V	74	-18.25	Peak	2.54	180	
4824	53.35	V	54	-0.65	Avg	2.54	180	
7236	50.02	V	74	-23.98	Peak	2.51	90	
7236	36.67	V	54	-17.33	Avg	2.51	90	
9648	49.79	V	--	--	Peak	2.51	90	Not in Restricted Band
9648	37.01	V	--	--	Avg	2.51	90	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	54.55	H	74	-19.45	Peak	2.49	135	
4824	52.95	H	54	-1.05	Avg	2.49	135	
7236	48.84	H	74	-25.16	Peak	2.1	135	
7236	36.44	H	54	-17.56	Avg	2.1	135	
9648	50.13	H	--	--	Peak	2.1	45	Not in Restricted Band
9648	37.15	H	--	--	Avg	2.1	45	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151M2-L-2450S Antenna

Date: 05/09/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	51.81	V	74	-22.19	Peak	1.09	135	
4824	49.45	V	54	-4.55	Avg	1.09	135	
7236	49.9	V	74	-24.1	Peak	1.44	135	
7236	36.53	V	54	-17.47	Avg	1.44	135	
9648	49.43	V	--	--	Peak	1.44	135	Not in Restricted Band
9648	36.99	V	--	--	Avg	1.44	135	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.55	H	74	-20.45	Peak	1.5	180	
4824	51.36	H	54	-2.64	Avg	1.51	180	
7236	49.01	H	74	-24.99	Peak	1.5	135	
7236	36.45	H	54	-17.55	Avg	1.5	135	
9648	51.05	H	--	--	Peak	1.5	180	Not in Restricted Band
9648	37.07	H	--	--	Avg	1.5	180	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	54.27	V	74	-19.73	Peak	1.58	135	
4874	52.36	V	54	-1.64	Avg	1.58	135	
7311	49.54	V	74	-24.46	Peak	2.04	135	
7311	37.89	V	54	-16.11	Avg	2.04	135	
9748	52.19	V	--	--	Peak	2.04	135	Not in Restricted Band
9748	37.66	V	--	--	Avg	2.04	135	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	54.29	H	74	-19.71	Peak	2.27	0	
4874	52.91	H	54	-1.09	Avg	2.27	0	
7311	49.66	H	74	-24.34	Peak	2.09	135	
7311	36.56	H	54	-17.44	Avg	2.09	135	
9748	50.18	H	--	--	Peak	2.09	135	Not in Restricted Band
9748	37.66	H	--	--	Avg	2.09	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	53.52	V	74	-20.48	Peak	3.06	45	
4874	51.18	V	54	-2.82	Avg	3.06	45	
7311	47.8	V	74	-26.2	Peak	2.02	135	
7311	37.11	V	54	-16.89	Avg	2.02	135	
9748	50.27	V	--	--	Peak	2.02	225	Not in Restricted Band
9748	37.93	V	--	--	Avg	2.02	225	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	53.68	H	74	-20.32	Peak	2.74	45	
4874	51.39	H	54	-2.61	Avg	2.74	45	
7311	49.95	H	74	-24.05	Peak	1.99	90	
7311	38.68	H	54	-15.32	Avg	1.99	90	
9748	49.43	H	--	--	Peak	1.99	135	Not in Restricted Band
9748	37.16	H	--	--	Avg	1.99	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	54.31	V	74	-19.69	Peak	1.92	90	
4874	52.76	V	54	-1.24	Avg	1.92	90	
7311	49.26	V	74	-24.74	Peak	1.92	135	
7311	36.57	V	54	-17.43	Avg	1.92	135	
9748	52.56	V	--	--	Peak	1.92	315	Not in Restricted Band
9748	37.59	V	--	--	Avg	1.92	315	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	54.34	H	74	-19.66	Peak	1.61	135	
4874	52.05	H	54	-1.95	Avg	1.61	135	
7311	48.45	H	74	-25.55	Peak	1.51	90	
7311	36.51	H	54	-17.49	Avg	1.51	90	
9748	52.2	H	--	--	Peak	1.51	135	Not in Restricted Band
9748	37.71	H	--	--	Avg	1.51	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	54.05	V	74	-19.95	Peak	1.03	135	
4924	51.05	V	54	-2.95	Avg	1.03	135	
7386	49.54	V	74	-24.46	Peak	2.17	135	
7386	37.04	V	54	-16.96	Avg	2.17	135	
9848	50	V	--	--	Peak	1.89	135	Not in Restricted Band
9848	37.05	V	--	--	Avg	1.89	135	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151M2-L-2450S Antenna

Date: 05/09/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	54.91	H	74	-19.09	Peak	1.85	315	
4924	52.97	H	54	-1.03	Avg	1.85	315	
7386	49.16	H	74	-24.84	Peak	1.68	180	
7386	37.04	H	54	-16.96	Avg	1.68	180	
9848	49.66	H	--	--	Peak	1.68	135	Not in Restricted Band
9848	36.91	H	--	--	Avg	1.68	135	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	55.61	V	74	-18.39	Peak	1.12	225	
4924	53.51	V	54	-0.49	Avg	1.12	225	
7386	48.91	V	74	-25.09	Peak	2.19	135	
7386	37.02	V	54	-16.98	Avg	2.19	135	
9848	50.83	V	--	--	Peak	2.19	225	Not in Restricted Band
9848	37.2	V	--	--	Avg	2.19	225	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	51.37	H	74	-22.63	Peak	2.69	90	
4924	48.32	H	54	-5.68	Avg	2.69	90	
7386	47.45	H	74	-26.55	Peak	1.96	315	
7386	36.92	H	54	-17.08	Avg	1.96	315	
9848	49.24	H	--	--	Peak	1.96	315	Not in Restricted Band
9848	36.85	H	--	--	Avg	1.96	315	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151M2-L-2450S Antenna

Date: 05/09/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	54.36	V	74	-19.64	Peak	1.88	315	
4924	52.63	V	54	-1.37	Avg	1.88	315	
7386	52.05	V	74	-21.95	Peak	1.88	135	
7386	37.21	V	54	-16.79	Avg	1.88	135	
9848	50.28	V	--	--	Peak	1.88	135	Not in Restricted Band
9848	37.15	V	--	--	Avg	1.88	135	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	53.73	H	74	-20.27	Peak	1.61	90	
4924	52.15	H	54	-1.85	Avg	1.61	90	
7386	51.03	H	74	-22.97	Peak	1.64	180	
7386	37.04	H	54	-16.96	Avg	1.64	180	
9848	49.51	H	--	--	Peak	1.61	90	Not in Restricted Band
9848	37.06	H	--	--	Avg	1.61	90	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151M2-L-2450S Antenna

Date: 05/09/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	52.73	V	74	-21.27	Peak	3.22	180	
4824	38.65	V	54	-15.35	Avg	3.22	180	
7236	46.18	V	74	-27.82	Peak	2.43	45	
7236	33.67	V	54	-20.33	Avg	2.43	45	
9648	48.2	V	--	--	Peak	2.43	225	Not in Restricted Band
9648	36.22	V	--	--	Avg	2.43	225	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151M2-L-2450S Antenna

Date: 05/09/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.66	H	74	-20.34	Peak	3.46	225	
4824	40.3	H	54	-13.7	Avg	3.46	225	
7236	46.63	H	74	-27.37	Peak	2.47	135	
7236	33.66	H	54	-20.34	Avg	2.47	135	
9648	48.77	H	--	--	Peak	2.46	180	Not in Restricted Band
9648	35.97	H	--	--	Avg	2.46	180	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	51.63	V	74	-22.37	Peak	1.27	225	
4824	36.75	V	54	-17.25	Avg	1.27	225	
7236	48.85	V	74	-25.15	Peak	2.03	90	
7236	36.77	V	54	-17.23	Avg	2.03	90	
9648	49.71	V	--	--	Peak	2.03	225	Not in Restricted Band
9648	37.67	V	--	--	Avg	2.03	225	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	41.77	H	74	-32.23	Peak	3.83	135	
4824	29.68	H	54	-24.32	Avg	3.83	135	
7236	48.51	H	74	-25.49	Peak	3.83	135	
7236	36.33	H	54	-17.67	Avg	3.83	135	
9648	49.3	H	--	--	Peak	2.54	225	Not in Restricted Band
9648	37.12	H	--	--	Avg	2.54	225	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	38.92	V	74	-35.08	Peak	1.18	180	
4824	26.27	V	54	-27.73	Avg	1.18	180	
7236	46.94	V	74	-27.06	Peak	1.18	135	
7236	33.87	V	54	-20.13	Avg	1.18	135	
9648	49.09	V	--	--	Peak	1.17	135	Not in Restricted Band
9648	36.02	V	--	--	Avg	1.17	135	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	57.29	H	74	-16.71	Peak	3.16	315	
4824	41.54	H	54	-12.46	Avg	3.16	315	
7236	44.27	H	74	-29.73	Peak	3.16	180	
7236	33.7	H	54	-20.3	Avg	3.16	180	
9648	48.51	H	--	--	Peak	3.16	135	Not in Restricted Band
9648	35.91	H	--	--	Avg	3.16	135	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	56.08	V	74	-17.92	Peak	1.76	180	
4874	41.58	V	54	-12.42	Avg	1.76	180	
7311	47.24	V	74	-26.76	Peak	1.76	135	
7311	34.32	V	54	-19.68	Avg	1.76	135	
9748	48.36	V	--	--	Peak	1.76	90	Not in Restricted Band
9748	36.29	V	--	--	Avg	1.76	90	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	53.82	H	74	-20.18	Peak	3.32	135	
4874	39.19	H	54	-14.81	Avg	3.32	135	
7311	47.04	H	74	-26.96	Peak	2.66	225	
7311	34.61	H	54	-19.39	Avg	2.66	225	
9748	48.21	H	--	--	Peak	2.66	135	Not in Restricted Band
9748	36.07	H	--	--	Avg	2.66	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	52.09	V	74	-21.91	Peak	1.17	180	
4874	38.01	V	54	-15.99	Avg	1.17	180	
7311	49.06	V	74	-24.94	Peak	2.08	180	
7311	34.7	V	54	-19.3	Avg	2.08	180	
9748	48	V	--	--	Peak	2.08	180	Not in Restricted Band
9748	36.64	V	--	--	Avg	2.08	180	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	45.99	H	74	-28.01	Peak	1.67	225	
4874	29.63	H	54	-24.37	Avg	1.67	225	
7311	48.78	H	74	-25.22	Peak	1.67	135	
7311	36.61	H	54	-17.39	Avg	1.67	135	
9748	50.93	H	--	--	Peak	1.67	135	Not in Restricted Band
9748	37.77	H	--	--	Avg	1.67	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	53.33	V	74	-20.67	Peak	1.19	180	
4874	38.85	V	54	-15.15	Avg	1.19	180	
7311	46.52	V	74	-27.48	Peak	1.81	135	
7311	34.46	V	54	-19.54	Avg	1.81	135	
9748	49.03	V	--	--	Peak	1.18	135	Not in Restricted Band
9748	36.01	V	--	--	Avg	1.18	135	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	55.19	H	74	-18.81	Peak	2.68	90	
4874	39.2	H	54	-14.8	Avg	2.68	90	
7311	47.05	H	74	-26.95	Peak	2.68	180	
7311	34.34	H	54	-19.66	Avg	2.68	180	
9748	49.15	H	--	--	Peak	2.68	135	Not in Restricted Band
9748	36.46	H	--	--	Avg	2.68	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	60.46	V	74	-13.54	Peak	1.89	180	
4924	47.07	V	54	-6.93	Avg	1.89	180	
7386	47.41	V	74	-26.59	Peak	2.57	180	
7386	34.11	V	54	-19.89	Avg	2.57	180	
9848	47.52	V	--	--	Peak	2.23	135	Not in Restricted Band
9848	34.85	V	--	--	Avg	2.23	135	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	57.78	H	74	-16.22	Peak	3.92	45	
4924	44.09	H	54	-9.91	Avg	3.92	45	
7386	46.35	H	74	-27.65	Peak	3.29	315	
7386	34.34	H	54	-19.66	Avg	3.29	315	
9848	47.2	H	--	--	Peak	3.29	180	Not in Restricted Band
9848	35.74	H	--	--	Avg	3.29	180	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	46.42	H	74	-27.58	Peak	1.94	135	
4924	30.8	H	54	-23.2	Avg	1.94	135	
7386	49.11	H	74	-24.89	Peak	1.73	135	
7386	37.06	H	54	-16.94	Avg	1.73	135	
9848	49.61	H	--	--	Peak	1.73	135	Not in Restricted Band
9848	37.41	H	--	--	Avg	1.73	135	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	44.58	H	74	-29.42	Peak	2.48	135	
4924	30.79	H	54	-23.21	Avg	2.48	135	
7386	49.42	H	74	-24.58	Peak	2.48	90	
7386	36.96	H	54	-17.04	Avg	2.48	90	
9848	49.19	H	--	--	Peak	2.48	135	Not in Restricted Band
9848	37.37	H	--	--	Avg	2.48	135	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	56.01	V	74	-17.99	Peak	1.56	135	
4924	39.31	V	54	-14.69	Avg	1.56	135	
7386	47.87	V	74	-26.13	Peak	2.71	135	
7386	34.51	V	54	-19.49	Avg	2.71	135	
9848	48.47	V	--	--	Peak	2.71	135	Not in Restricted Band
9848	35.78	V	--	--	Avg	2.71	135	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	61.27	H	74	-12.73	Peak	1.81	315	
4924	48.15	H	54	-5.85	Avg	1.81	315	
7386	47.03	H	74	-26.97	Peak	2.48	135	
7386	34.56	H	54	-19.44	Avg	2.48	135	
9848	47.36	H	--	--	Peak	2.48	135	Not in Restricted Band
9848	35.79	H	--	--	Avg	2.48	135	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.22	V	74	-20.78	Peak	1.67	135	
4824	50.86	V	54	-3.14	Avg	1.67	135	
7236	51.76	V	74	-22.24	Peak	2.12	135	
7236	37.08	V	54	-16.92	Avg	2.12	135	
9648	49.52	V	--	--	Peak	1.63	45	Not in Restricted Band
9648	37.19	V	--	--	Avg	1.63	45	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151FL-L-PX-2450S Antenna

Date: 05/31/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.7	H	74	-20.3	Peak	1.79	180	
4824	51.12	H	54	-2.88	Avg	1.79	180	
7236	49.73	H	74	-24.27	Peak	1.93	45	
7236	36.59	H	54	-17.41	Avg	1.93	45	
9648	51.63	H	--	--	Peak	1.93	180	Not in Restricted Band
9648	37.07	H	--	--	Avg	1.93	180	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.7	V	74	-20.3	Peak	2.17	225	
4824	51.03	V	54	-2.97	Avg	2.17	225	
7236	48.54	V	74	-25.46	Peak	1.49	135	
7236	36.57	V	54	-17.43	Avg	1.49	135	
9648	50.02	V	--	--	Peak	2.19	180	Not in Restricted Band
9648	38.67	V	--	--	Avg	2.19	180	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	52.72	H	74	-21.28	Peak	1.72	135	
4824	49.62	H	54	-4.38	Avg	1.72	135	
7236	48.44	H	74	-25.56	Peak	1.72	135	
7236	36.47	H	54	-17.53	Avg	1.72	135	
9648	49.53	H	--	--	Peak	1.72	135	Not in Restricted Band
9648	36.99	H	--	--	Avg	1.72	135	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.11	V	74	-20.89	Peak	2.75	180	
4824	50.79	V	54	-3.21	Avg	2.75	180	
7236	49.32	V	74	-24.68	Peak	1.84	270	
7236	36.83	V	54	-17.17	Avg	1.84	270	
9648	51.57	V	--	--	Peak	1.53	225	Not in Restricted Band
9648	36.99	V	--	--	Avg	1.53	225	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	53.9	H	74	-20.1	Peak	2.79	270	
4824	52.22	H	54	-1.78	Avg	2.79	270	
7236	40.54	H	74	-33.46	Peak	2.79	225	
7236	27.67	H	54	-26.33	Avg	2.79	225	
9648	43.4	H	--	--	Peak	2.79	135	Not in Restricted Band
9648	28.69	H	--	--	Avg	2.79	135	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	52.99	V	74	-21.01	Peak	1.88	45	
4874	50.51	V	54	-3.49	Avg	1.88	45	
7311	50.36	V	74	-23.64	Peak	1.88	315	
7311	36.85	V	54	-17.15	Avg	1.88	315	
9748	51.97	V	--	--	Peak	1.88	90	Not in Restricted Band
9748	37.57	V	--	--	Avg	1.88	90	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	53.46	H	74	-20.54	Peak	2.43	180	
4874	51.46	H	54	-2.54	Avg	2.43	180	
7311	49.28	H	74	-24.72	Peak	1.94	180	
7311	36.6	H	54	-17.4	Avg	1.94	180	
9748	49.6	H	--	--	Peak	1.68	135	Not in Restricted Band
9748	37.39	H	--	--	Avg	1.68	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	53.52	V	74	-20.48	Peak	2.19	45	
4874	51.97	V	54	-2.03	Avg	2.19	45	
7311	49.07	V	74	-24.93	Peak	2.35	135	
7311	36.62	V	54	-17.38	Avg	2.35	135	
9748	50.21	V	--	--	Peak	2.2	180	Not in Restricted Band
9748	37.5	V	--	--	Avg	2.2	180	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	53.27	H	74	-20.73	Peak	2.66	135	
4874	49.39	H	54	-4.61	Avg	2.66	135	
7311	49.34	H	74	-24.66	Peak	1.99	135	
7311	36.56	H	54	-17.44	Avg	1.99	135	
9748	50.15	H	--	--	Peak	2.15	315	Not in Restricted Band
9748	37.44	H	--	--	Avg	2.15	315	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	53.44	V	74	-20.56	Peak	1.98	270	
4874	50.86	V	54	-3.14	Avg	1.98	270	
7311	48.82	V	74	-25.18	Peak	1.77	225	
7311	36.59	V	54	-17.41	Avg	1.77	225	
9748	50.04	V	--	--	Peak	1.77	135	Not in Restricted Band
9748	37.39	V	--	--	Avg	1.77	135	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059	51.26	V	--	--	Peak			No Emissions
17059	38.37	V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	53.08	H	74	-20.92	Peak	2.35	135	
4874	51.04	H	54	-2.96	Avg	2.35	135	
7311	39.28	H	74	-34.72	Peak	1.57	135	
7311	27.29	H	54	-26.71	Avg	1.57	135	
9748	43.09	H	--	--	Peak	1.57	135	Not in Restricted Band
9748	30.98	H	--	--	Avg	1.57	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	53.34	V	74	-20.66	Peak	1.88	135	
4924	51.14	V	54	-2.86	Avg	1.88	135	
7386	51.09	V	74	-22.91	Peak	2.45	135	
7386	37.25	V	54	-16.75	Avg	2.45	135	
9848	50.86	V	--	--	Peak	2.45	180	Not in Restricted Band
9848	36.81	V	--	--	Avg	2.45	180	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	51.5	H	74	-22.5	Peak	1.75	90	
4924	47.9	H	54	-6.1	Avg	1.75	90	
7386	49.65	H	74	-24.35	Peak	1.75	135	
7386	37	H	54	-17	Avg	1.75	135	
9848	48.89	H	--	--	Peak	1.75	225	Not in Restricted Band
9848	36.68	H	--	--	Avg	1.75	225	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	53.92	V	74	-20.08	Peak	1.87	135	
4924	50.85	V	54	-3.15	Avg	1.87	135	
7386	49.99	V	74	-24.01	Peak	1.73	135	
7386	36.9	V	54	-17.1	Avg	1.73	135	
9848	49.08	V	--	--	Peak	1.73	135	Not in Restricted Band
9848	36.83	V	--	--	Avg	1.73	135	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	53.55	H	74	-20.45	Peak	2.61	135	
4924	50.89	H	54	-3.11	Avg	2.61	135	
7386	49.76	H	74	-24.24	Peak	2.15	135	
7386	36.93	H	54	-17.07	Avg	2.15	135	
9848	47.81	H	--	--	Peak	2.15	270	Not in Restricted Band
9848	36.76	H	--	--	Avg	2.15	270	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	54.38	V	74	-19.62	Peak	1.95	135	
4924	51.82	V	54	-2.18	Avg	1.95	135	
7386	49.73	V	74	-24.27	Peak	1.71	180	
7386	36.88	V	54	-17.12	Avg	1.71	180	
9848	51.32	V	--	--	Peak	1.97	135	Not in Restricted Band
9848	36.75	V	--	--	Avg	1.97	135	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	52.44	H	74	-21.56	Peak	3.09	135	
4924	50.66	H	54	-3.34	Avg	3.09	135	
7386	40	H	74	-34	Peak	2.28	135	
7386	27.21	H	54	-26.79	Avg	2.28	135	
9848	49.11	H	--	--	Peak	2.28	45	Not in Restricted Band
9848	36.87	H	--	--	Avg	2.28	45	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	50.96	V	74	-23.04	Peak	1.41	135	
4824	36.57	V	54	-17.43	Avg	1.41	135	
7236	49.31	V	74	-24.69	Peak	2.16	135	
7236	36.23	V	54	-17.77	Avg	2.16	135	
9648	49.53	V	--	--	Peak	1.92	135	Not in Restricted Band
9648	37.22	V	--	--	Avg	1.92	135	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151FL-L-PX-2450S Antenna

Date: 05/31/06

Lab: B

Tested By: Kyle Fujimoto

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	48.32	H	74	-25.68	Peak	1.96	45	
4824	35.5	H	54	-18.5	Avg	1.96	45	
7236	48.98	H	74	-25.02	Peak	1.66	135	
7236	36.23	H	54	-17.77	Avg	1.66	135	
9648	49.69	H	--	--	Peak	1.99	135	Not in Restricted Band
9648	37.12	H	--	--	Avg	1.99	135	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	45.99	V	74	-28.01	Peak	1.67	315	
4824	32.28	V	54	-21.72	Avg	1.67	315	
7236	51.45	V	74	-22.55	Peak	2.07	225	
7236	36.37	V	54	-17.63	Avg	2.07	225	
9648	49.2	V	--	--	Peak	1.74	45	Not in Restricted Band
9648	37.26	V	--	--	Avg	1.74	45	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	46.59	H	74	-27.41	Peak	1.38	45	
4824	32.81	H	54	-21.19	Avg	1.38	45	
7236	50.39	H	74	-23.61	Peak	1.01	5	
7236	36.68	H	54	-17.32	Avg	1.01	5	
9648	51.59	H	--	--	Peak	1.02	5	Not in Restricted Band
9648	36.93	H	--	--	Avg	1.02	5	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	47.39	V	74	-26.61	Peak	2.85	315	
4824	30.27	V	54	-23.73	Avg	2.85	315	
7236	48.28	V	74	-25.72	Peak	1.91	225	
7236	36.42	V	54	-17.58	Avg	1.91	225	
9648	49.48	V	--	--	Peak	1.91	225	Not in Restricted Band
9648	37.06	V	--	--	Avg	1.91	225	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions
12060		V	54	-54	Avg			Detected
14472		V	74	-74	Peak			No Emissions
14472		V	54	-54	Avg			Detected
16884		V	--	--	Peak			No Emissions
16884		V	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	54.45	H	74	-19.55	Peak	1.67	315	
4824	39.9	H	54	-14.1	Avg	1.67	315	
7236	48.76	H	74	-25.24	Peak	2.21	135	
7236	36.61	H	54	-17.39	Avg	2.21	135	
9648	49.1	H	--	--	Peak	1.83	270	Not in Restricted Band
9648	37.39	H	--	--	Avg	1.83	270	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions
12060		H	54	-54	Avg			Detected
14472		H	74	-74	Peak			No Emissions
14472		H	54	-54	Avg			Detected
16884		H	--	--	Peak			No Emissions
16884		H	--	--	Avg			Detected
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

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	49.1	V	74	-24.9	Peak	2.41	315	
4874	33.16	V	54	-20.84	Avg	2.41	315	
7311	48.85	V	74	-25.15	Peak	1.75	135	
7311	36.45	V	54	-17.55	Avg	1.75	135	
9748	50.3	V	--	--	Peak	1.75	225	Not in Restricted Band
9748	37.55	V	--	--	Avg	1.75	225	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	48.35	H	74	-25.65	Peak	2.09	135	
4874	32.81	H	54	-21.19	Avg	2.09	135	
7311	48.63	H	74	-25.37	Peak	2.09	135	
7311	36.38	H	54	-17.62	Avg	2.09	135	
9748	50.1	H	--	--	Peak	1.91	135	Not in Restricted Band
9748	37.23	H	--	--	Avg	1.91	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	47.61	V	74	-26.39	Peak	2.37	135	
4874	32.66	V	54	-21.34	Avg	2.37	135	
7311	49.28	V	74	-24.72	Peak	1.95	180	
7311	36.67	V	54	-17.33	Avg	1.95	180	
9748	50.34	V	--	--	Peak	1.83	135	Not in Restricted Band
9748	37.9	V	--	--	Avg	1.83	135	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059		V	--	--	Peak			No Emissions
17059		V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	48.11	H	74	-25.89	Peak	1.71	5	
4874	33.62	H	54	-20.38	Avg	1.71	5	
7311	50.57	H	74	-23.43	Peak	1.23	0	
7311	36.77	H	54	-17.23	Avg	1.23	0	
9748	49.28	H	--	--	Peak			Not in Restricted Band
9748	37.87	H	--	--	Avg			Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	44.88	V	74	-29.12	Peak	1.62	180	
4874	31.73	V	54	-22.27	Avg	1.62	180	
7311	49.08	V	74	-24.92	Peak	1.73	135	
7311	36.68	V	54	-17.32	Avg	1.73	135	
9748	49.26	V	--	--	Peak	1.51	135	Not in Restricted Band
9748	37.77	V	--	--	Avg	1.51	135	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions
12185		V	54	-54	Avg			Detected
14622		V	--	--	Peak			No Emissions
14622		V	--	--	Avg			Detected
17059	51.26	V	--	--	Peak			No Emissions
17059	38.37	V	--	--	Avg			Detected
19496		V	74	-74	Peak			No Emissions
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emissions
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emissions
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emissions
24370		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	49.49	H	74	-24.51	Peak	2.57	45	
4874	33.15	H	54	-20.85	Avg	2.57	45	
7311	49.31	H	74	-24.69	Peak	1.99	315	
7311	36.3	H	54	-17.7	Avg	1.99	315	
9748	49.8	H	--	--	Peak	1.66	135	Not in Restricted Band
9748	37.82	H	--	--	Avg	1.66	135	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions
12185		H	54	-54	Avg			Detected
14622		H	--	--	Peak			No Emissions
14622		H	--	--	Avg			Detected
17059		H	--	--	Peak			No Emissions
17059		H	--	--	Avg			Detected
19496		H	74	-74	Peak			No Emissions
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emissions
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emissions
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emissions
24370		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	49.61	V	74	-24.39	Peak	2.32	135	
4924	35.47	V	54	-18.53	Avg	2.32	135	
7386	49.48	V	74	-24.52	Peak	1.8	45	
7386	36.67	V	54	-17.33	Avg	1.8	45	
9848	49.35	V	--	--	Peak	1.81	135	Not in Restricted Band
9848	37.09	V	--	--	Avg	1.81	135	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	50.12	H	74	-23.88	Peak	2.39	270	
4924	36.48	H	54	-17.52	Avg	2.39	270	
7386	49.64	H	74	-24.36	Peak	2.37	225	
7386	36.88	H	54	-17.12	Avg	2.37	225	
9848	48.36	H	--	--	Peak	1.79	90	Not in Restricted Band
9848	37.06	H	--	--	Avg	1.79	90	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	49.82	V	74	-24.18	Peak	2.01	180	
4924	36.47	V	54	-17.53	Avg	2.01	180	
7386	49.24	V	74	-24.76	Peak	1.82	270	
7386	37.12	V	54	-16.88	Avg	1.82	270	
9848	49.28	V	--	--	Peak	1.63	225	Not in Restricted Band
9848	37.39	V	--	--	Avg	1.63	225	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	47	H	74	-27	Peak	2.23	180	
4924	31.81	H	54	-22.19	Avg	2.23	180	
7386	49.15	H	74	-24.85	Peak	1.98	315	
7386	37.19	H	54	-16.81	Avg	1.98	315	
9848	49.22	H	--	--	Peak	1.85	180	Not in Restricted Band
9848	37.2	H	--	--	Avg	1.85	180	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	47.61	V	74	-26.39	Peak	1.52	135	
4924	31.31	V	54	-22.69	Avg	1.52	135	
7386	49.14	V	74	-24.86	Peak	1.52	270	
7386	36.98	V	54	-17.02	Avg	1.52	270	
9848	50.62	V	--	--	Peak	1.39	270	Not in Restricted Band
9848	37.4	V	--	--	Avg	1.39	270	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions
12310		V	54	-54	Avg			Detected
14772		V	--	--	Peak			No Emissions
14772		V	--	--	Avg			Detected
17234		V	--	--	Peak			No Emissions
17234		V	--	--	Avg			Detected
19696		V	74	-74	Peak			No Emissions
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emissions
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emissions
24620		V	--	--	Avg			Detected

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

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

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	55.28	H	74	-18.72	Peak	1.81	135	
4924	40.78	H	54	-13.22	Avg	1.81	135	
7386	52.36	H	74	-21.64	Peak	1.81	270	
7386	36.98	H	54	-17.02	Avg	1.81	270	
9848	48.72	H	--	--	Peak	1.71	135	Not in Restricted Band
9848	37.08	H	--	--	Avg	1.71	135	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions
12310		H	54	-54	Avg			Detected
14772		H	--	--	Peak			No Emissions
14772		H	--	--	Avg			Detected
17234		H	--	--	Peak			No Emissions
17234		H	--	--	Avg			Detected
19696		H	74	-74	Peak			No Emissions
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emissions
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emissions
24620		H	--	--	Avg			Detected

RADIATED EMISSIONS

DATA SHEETS for the RECEIVER PORTION

Quatech, Inc.
Airborne Embedded Radio Module
Model: WLRG-RA-DP101
Configuration: With P/N: S141AH-2450 Antenna

Date: 05/12/06
Lab: B
Tested By: Kyle Fujimoto

[illegible]

RSS-210

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151M2-L-2450S Antenna

Date: 05/12/06

Lab: B

Tested By: Kyle Fujimoto

Receive Mode

Middle Channel

Y-Axis Worst Case

[illegible]

Quatech, Inc. Date: 05/31/06
Airborne Embedded Radio Module Lab: B
Model: WLRG-RA-DP101 Tested By: Kyle Fujimoto
Configuration: With P/N: S151FL-L-PX-2450S Antenna

Date: 05/31/06
Lab: B
Tested By: Kyle Fujimoto

[illegible]

RADIATED EMISSIONS

DATA SHEETS for the DIGITAL PORTION

Quatech, Inc. Date: 05/12/06
Airborne Embedded Radio Module Labs: A, B, and D
Model: WLRG-RA-DP101 Tested By: Kyle Fujimoto
Configuration: With P/N: S151M2-L-2450S Antenna (worst case antenna)

enna (worst case antenna)

Non-Harmonic Emissions in Rx Mode From 10 kHz to 14.622 GHz

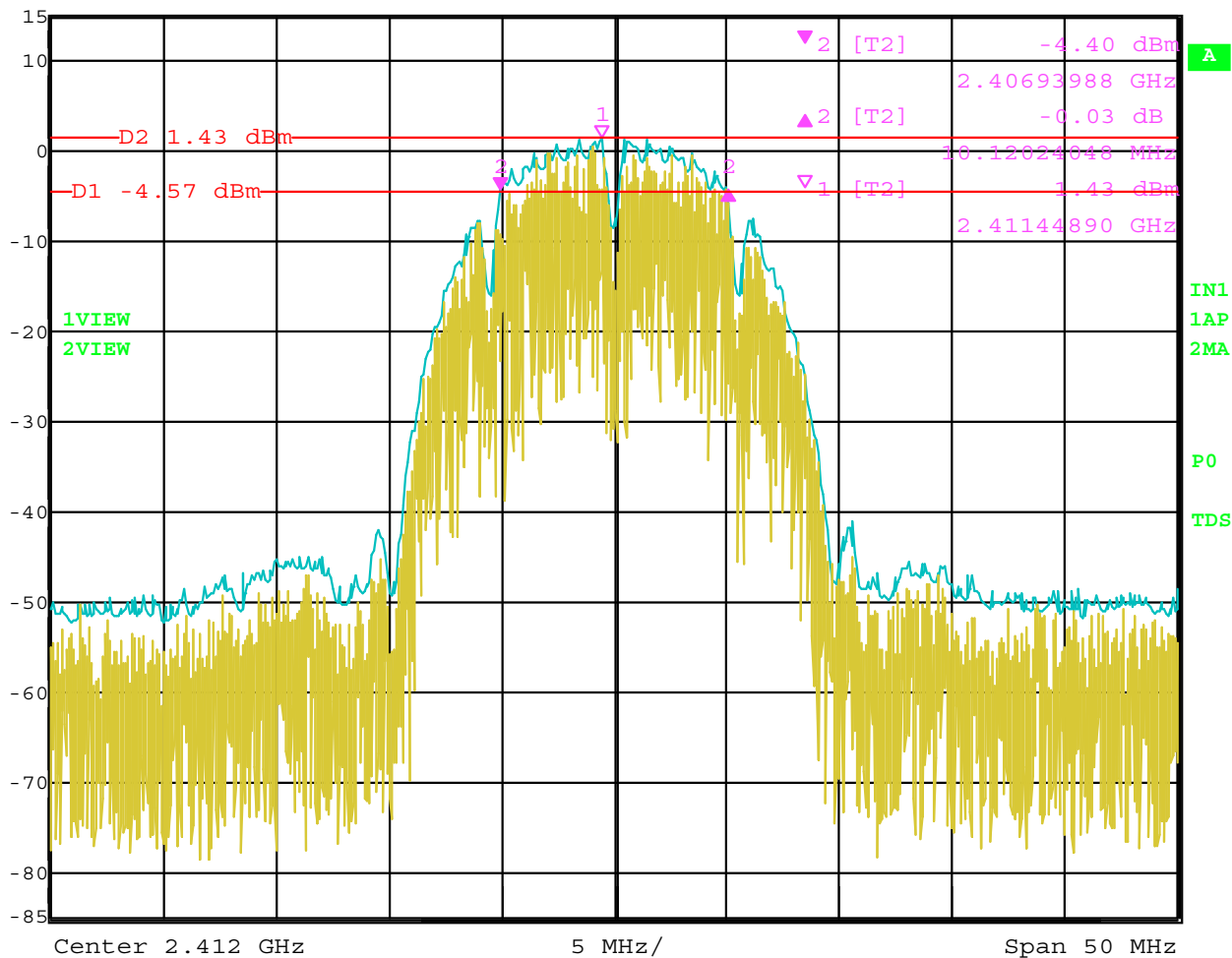
[illegible]

-6 dB BANDWIDTH

DATA SHEETS



Delta 2 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -0.03 dB VBW 300 kHz
15 dBm 10.12024048 MHz SWT 12.5 ms Unit dBm

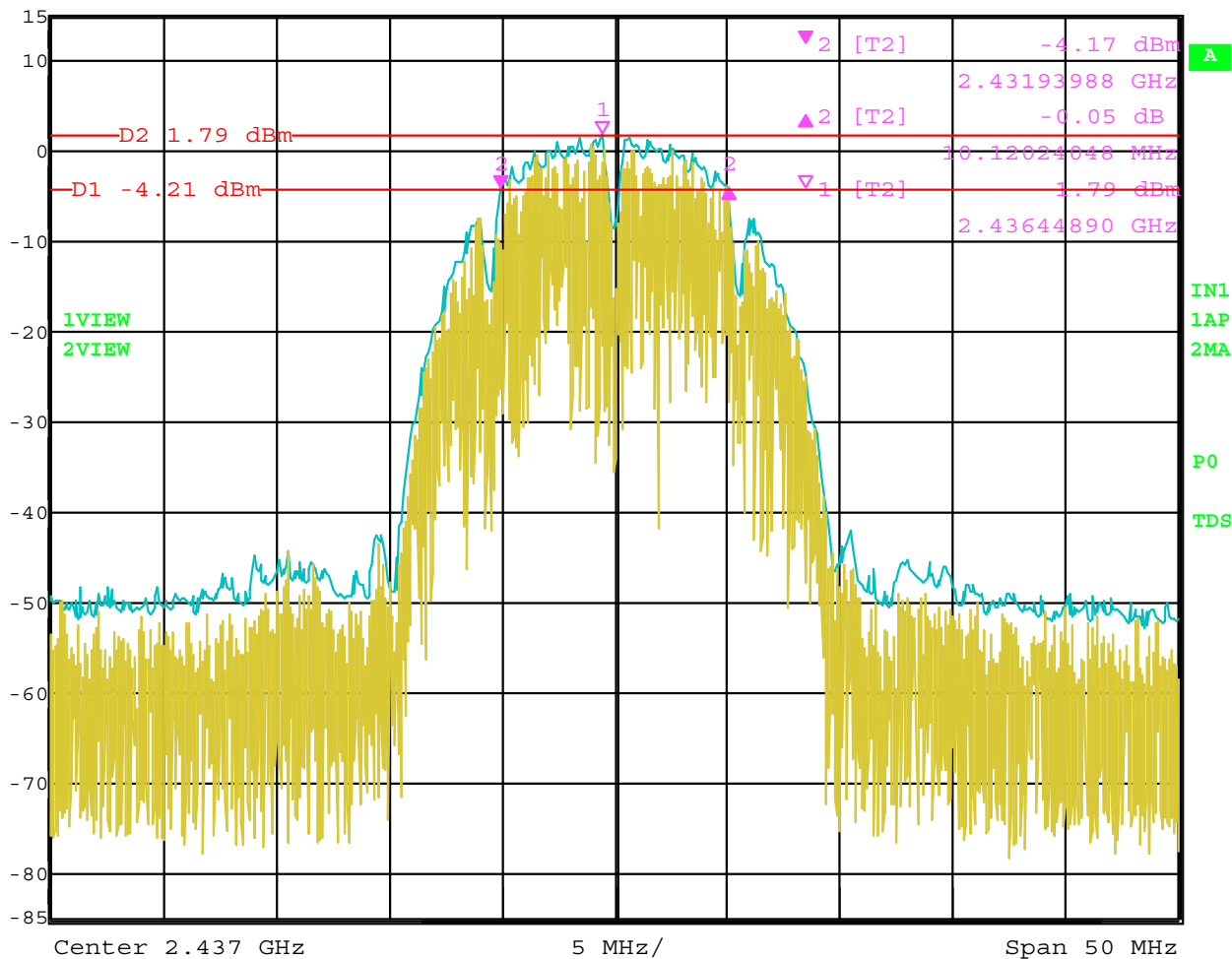


Date: 15.MAY.2006 09:25:19

-6 dB Bandwidth - Channel 1 - 802.11 b Mode



Delta 2 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -0.05 dB VBW 300 kHz
15 dBm 10.12024048 MHz SWT 12.5 ms Unit dBm

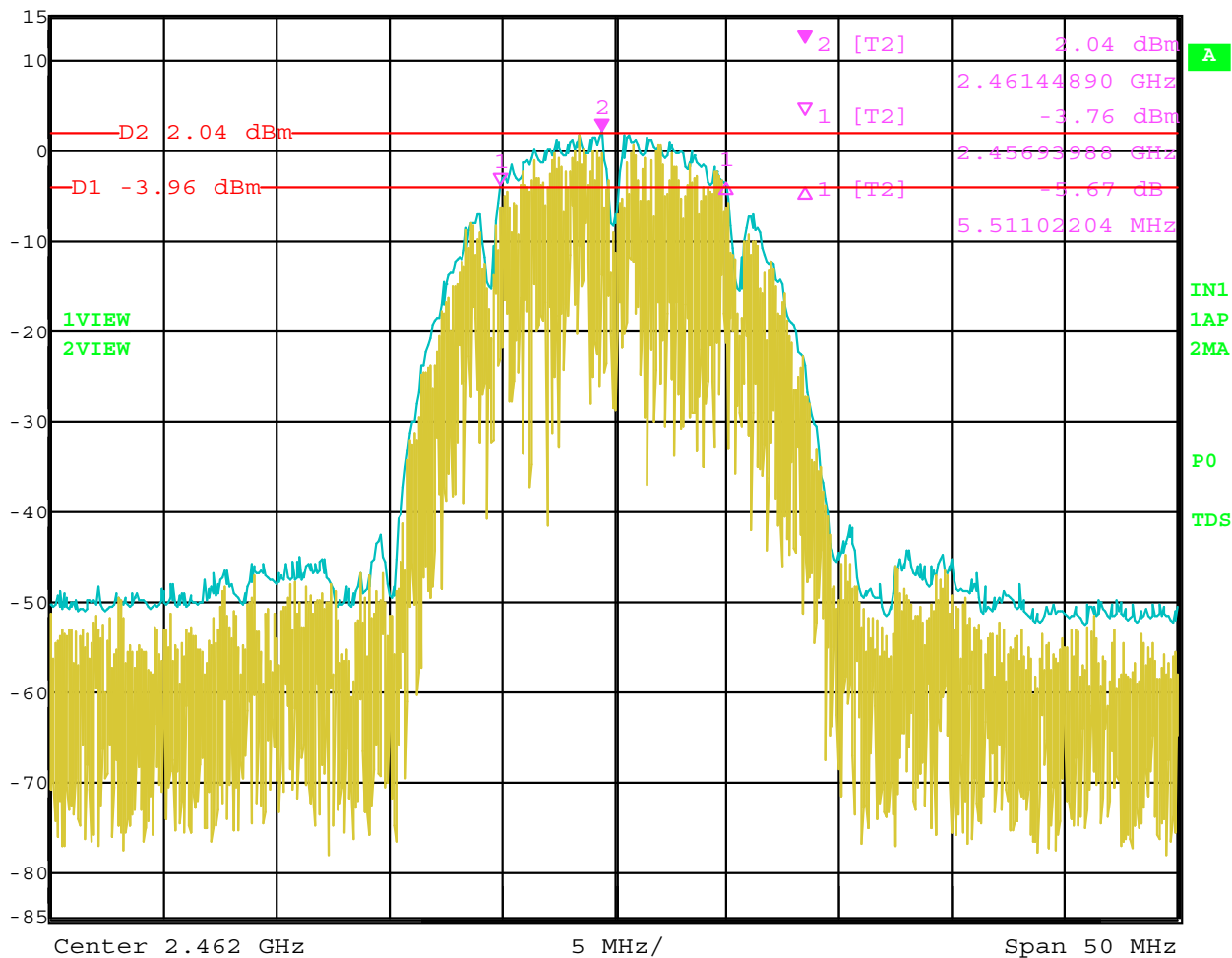


Date: 15.MAY.2006 09:21:54

-6 dB Bandwidth – Channel 6 – 802.11 b Mode



Marker 2 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 2.04 dBm VBW 300 kHz
15 dBm 2.46144890 GHz SWT 12.5 ms Unit dBm

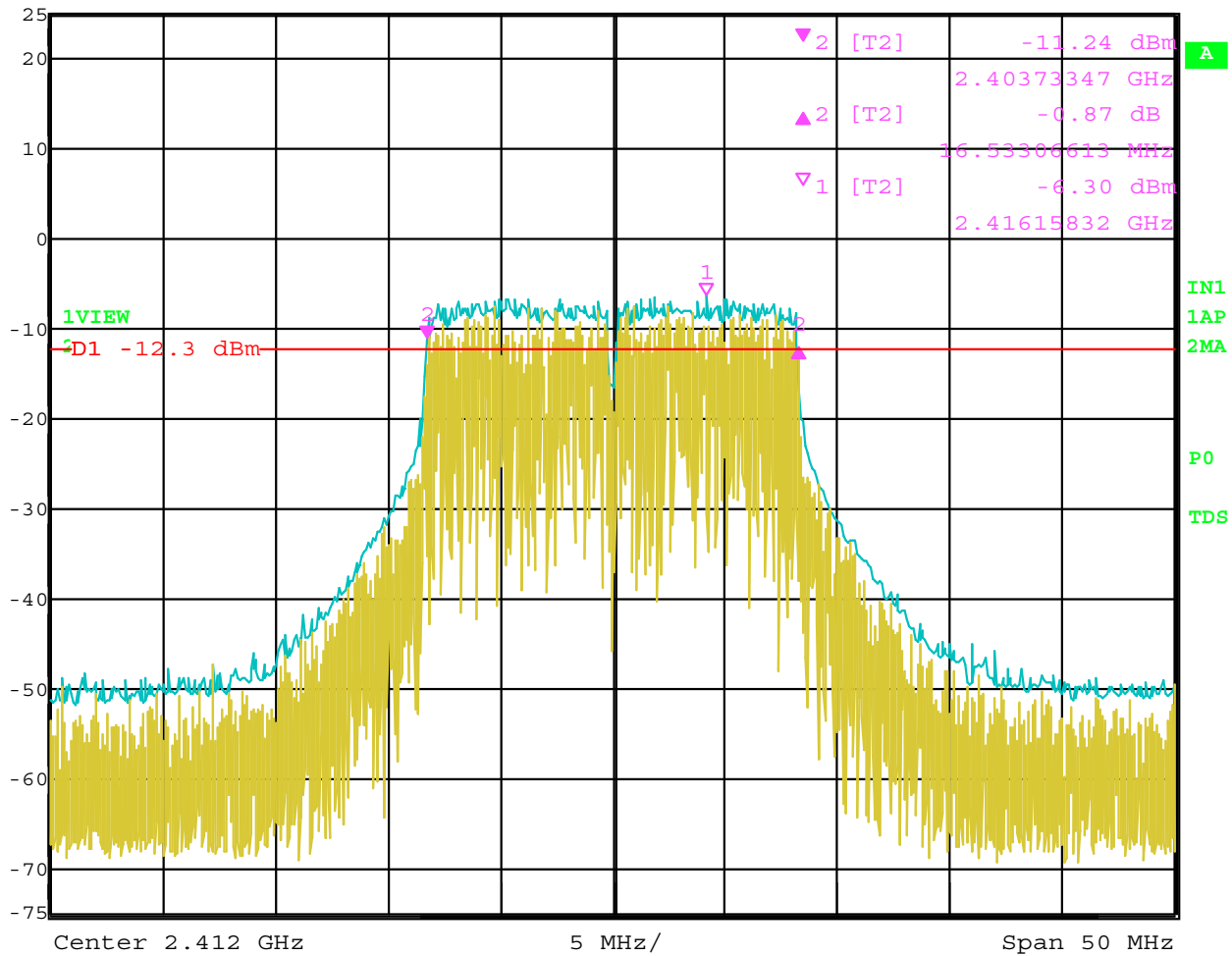


Date: 15.MAY.2006 09:19:59

-6 dB Bandwidth – Channel 11 – 802.11 b Mode



Delta 2 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -0.87 dB VBW 300 kHz
25 dBm 16.53306613 MHz SWT 12.5 ms Unit dBm

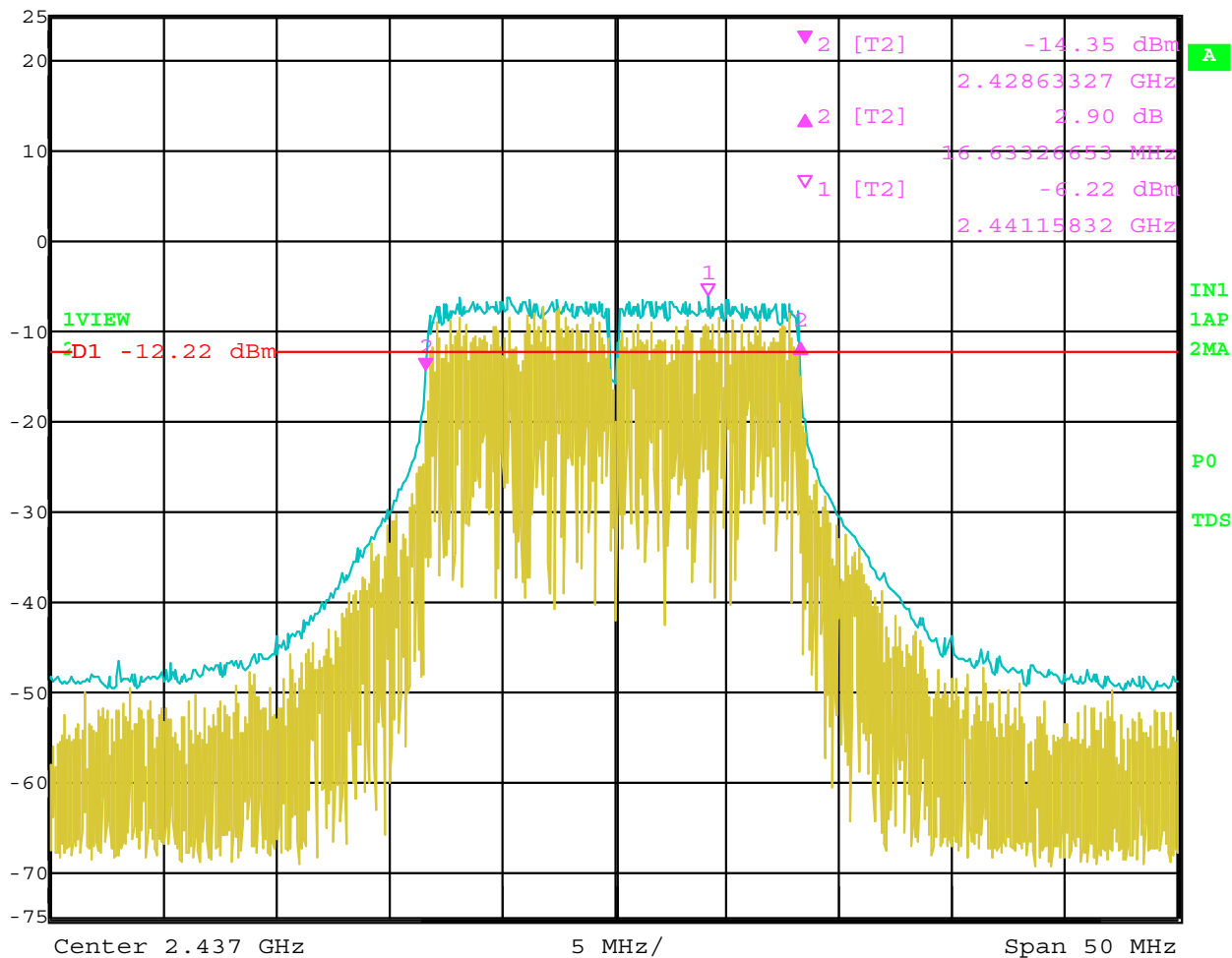


Date: 15.MAY.2006 10:44:57

-6 dB Bandwidth - Channel 1 - 802.11 g Mode



Delta 2 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 2.90 dB VBW 300 kHz
25 dBm 16.63326653 MHz SWT 12.5 ms Unit dBm

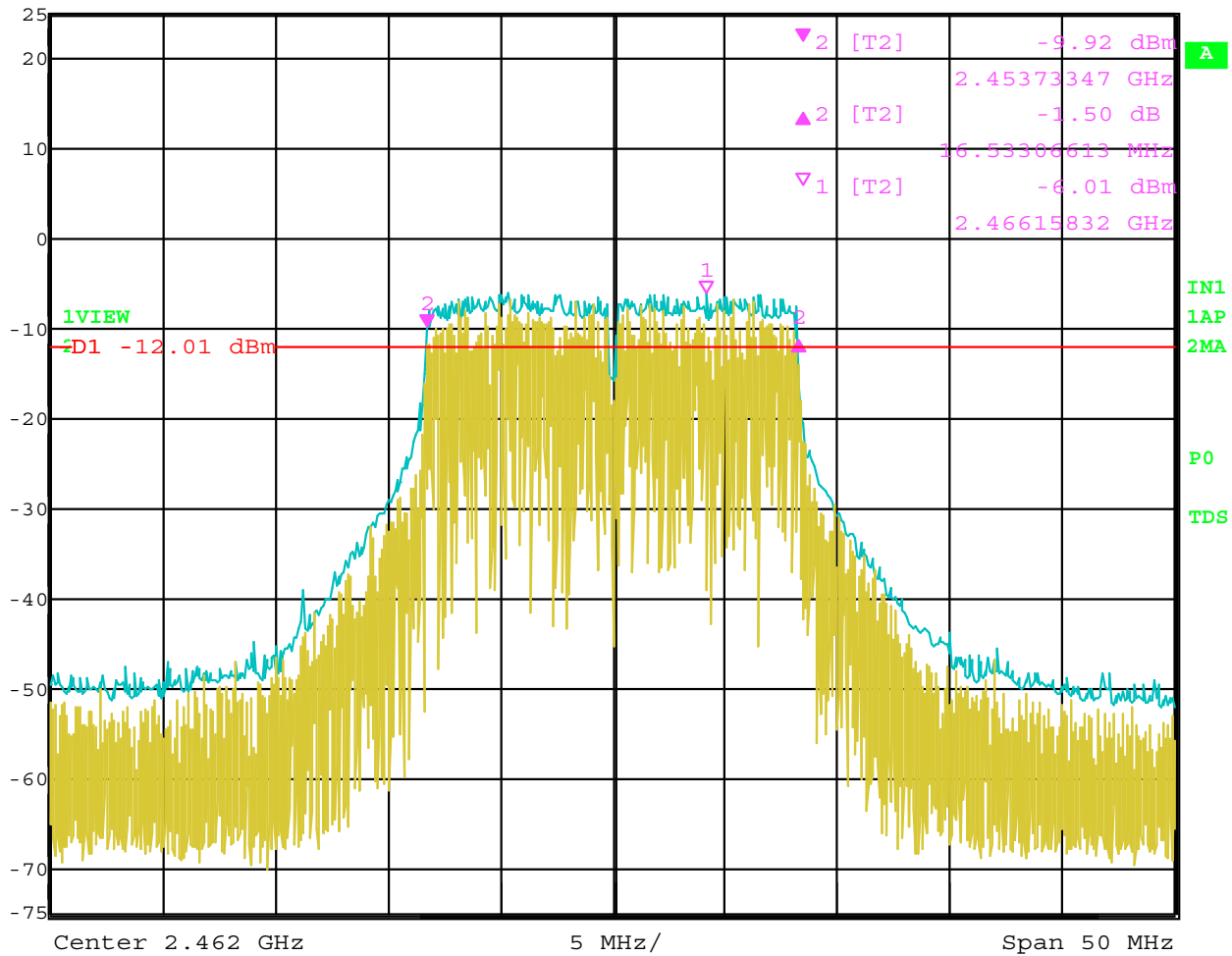


Date: 15.MAY.2006 10:47:32

-6 dB Bandwidth – Channel 6 – 802.11 g Mode



Delta 2 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -1.50 dB VBW 300 kHz
25 dBm 16.53306613 MHz SWT 12.5 ms Unit dBm



Date: 15.MAY.2006 10:56:14

-6 dB Bandwidth – Channel 11 – 802.11 g Mode

PEAK POWER OUTPUT

DATA SHEETS

PEAK OUTPUT POWER – 05-16-06

Quatech, Inc.

Airborne Embedded Radio Module

MODEL: WLRG-RA-DP101

802.11 b Mode

CHANNEL	RATE	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	1 Mbps (Worst Case)	19.28
6 (2437 MHz)	1 Mbps (Worst Case)	18.87
11 (2462 MHz)	1 Mbps (Worst Case)	18.79

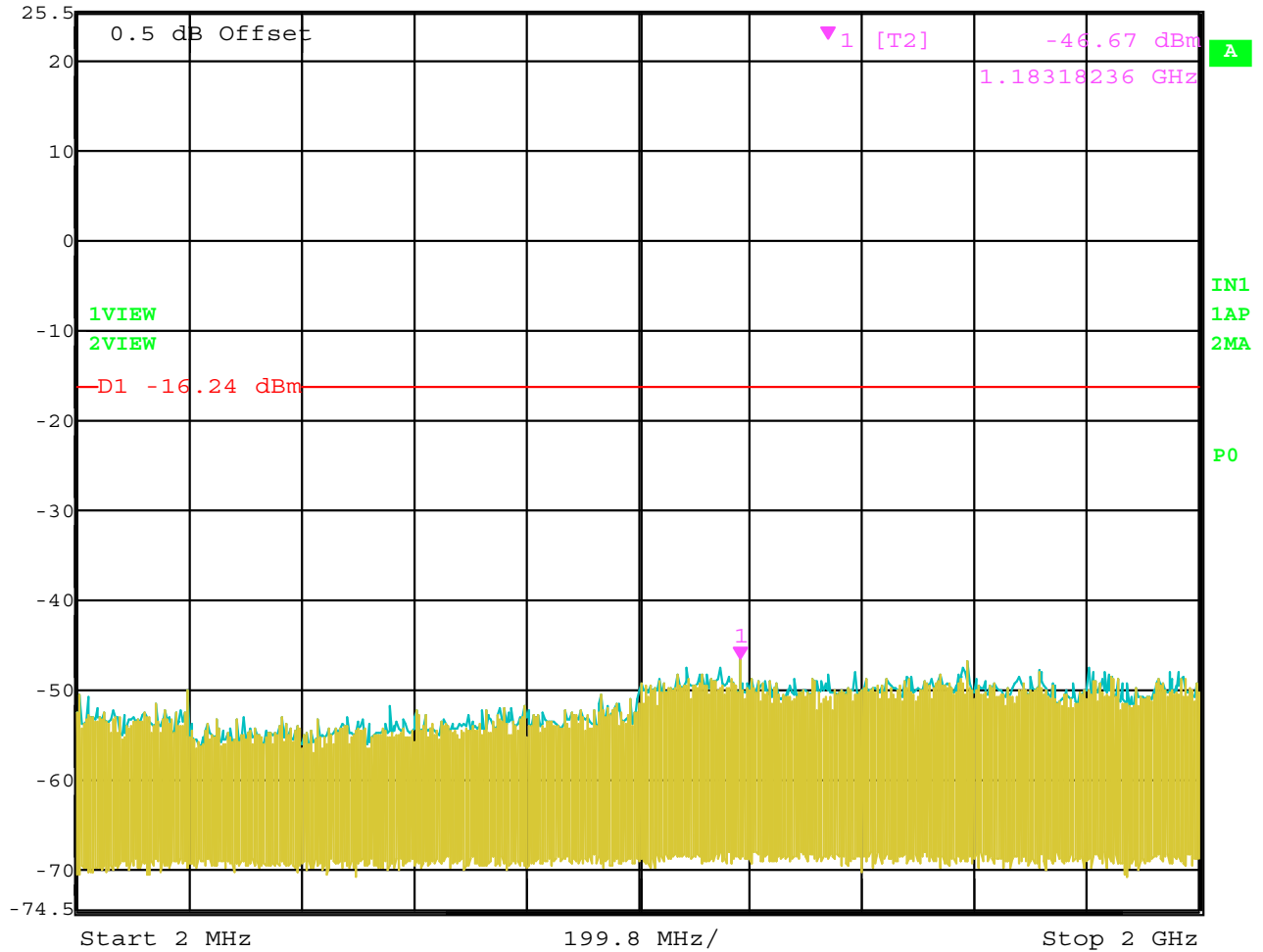
802.11 g Mode

CHANNEL	RATE	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	6 Mbps (Worst Case)	21.55
6 (2437 MHz)	6 Mbps (Worst Case)	21.52
11 (2462 MHz)	6 Mbps (Worst Case)	21.44

RF ANTENNA CONDUCTED
DATA SHEETS



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -46.67 dBm VBW 300 kHz
25.5 dBm 1.18318236 GHz SWT 1.15 s Unit dBm

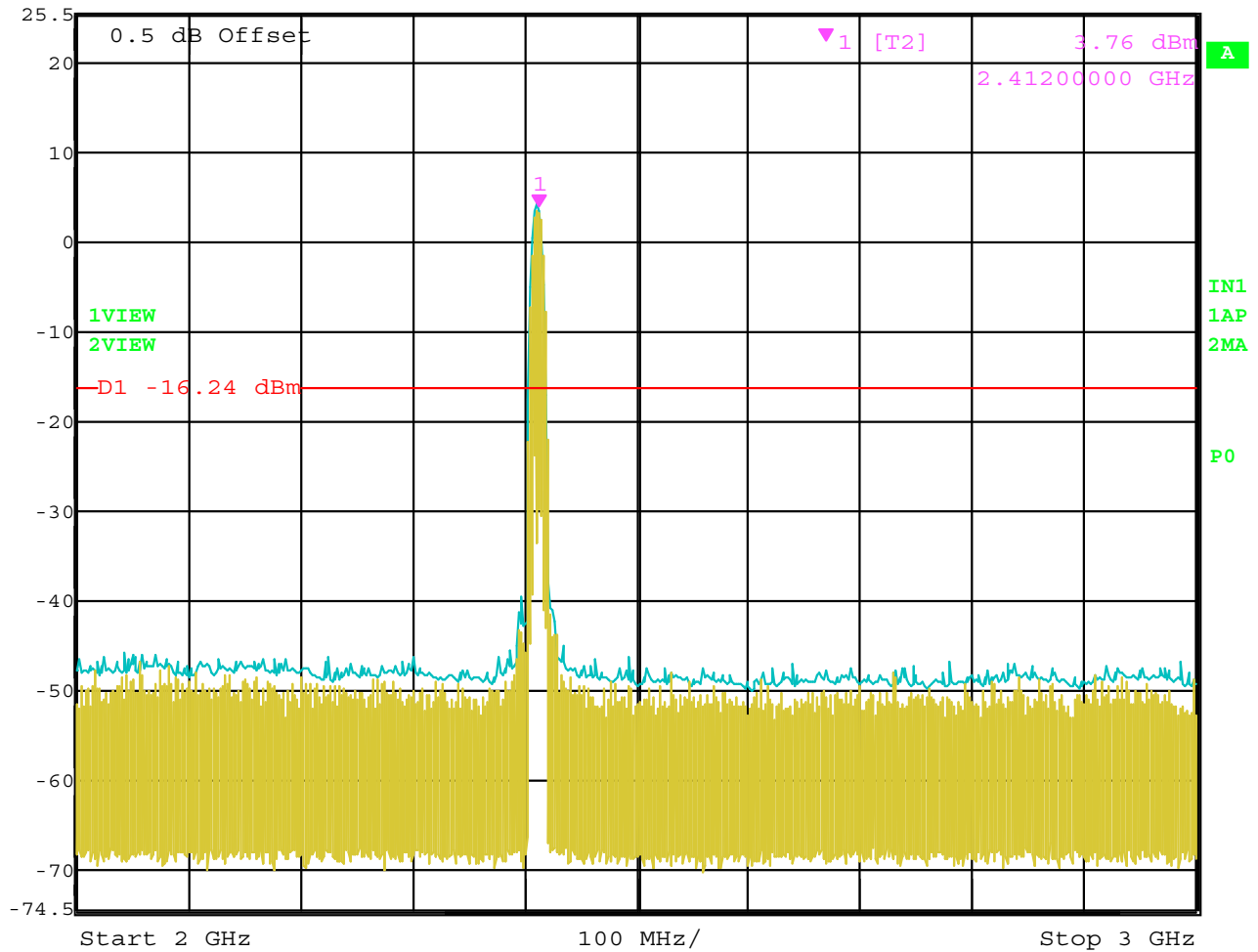


Date: 15.MAY.2006 11:47:51

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



Ref Lvl 25.5 dBm
Marker 1 [T2] 3.76 dBm
2.41200000 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 250 ms Unit dBm

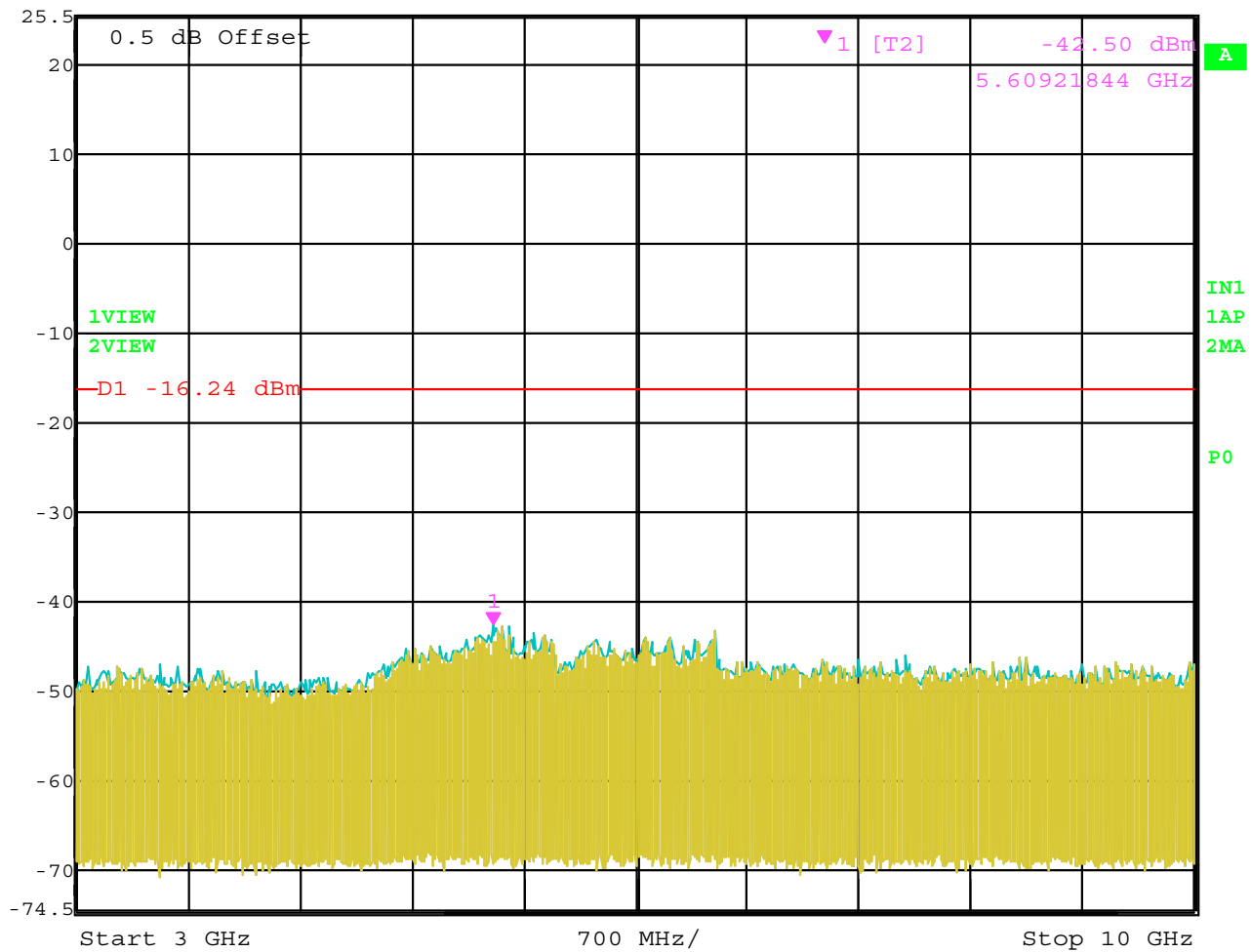


Date: 15.MAY.2006 11:46:54

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -42.50 dBm VBW 300 kHz
25.5 dBm 5.60921844 GHz SWT 1.75 s Unit dBm

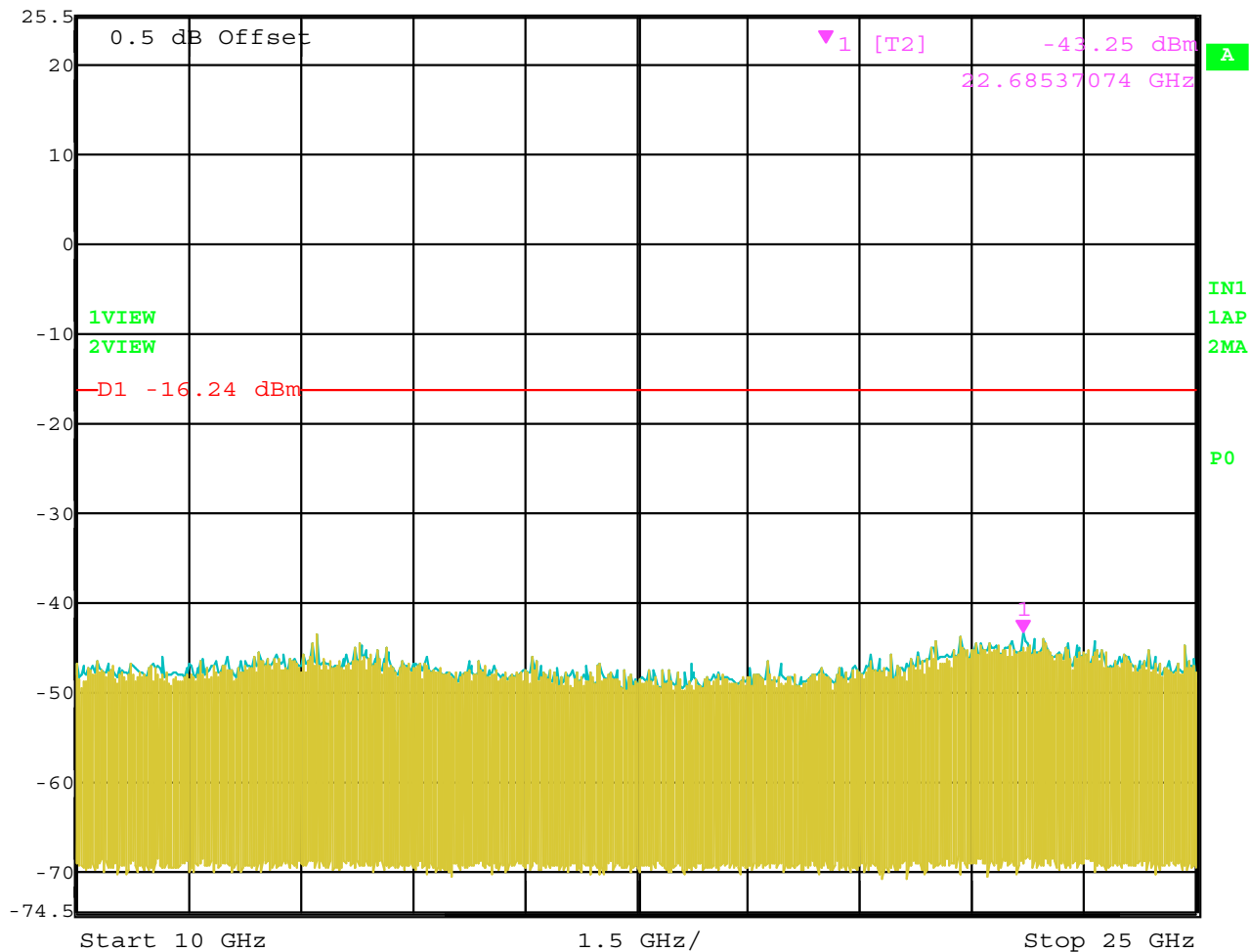


Date: 15.MAY.2006 11:48:26

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -43.25 dBm VBW 300 kHz
25.5 dBm 22.68537074 GHz SWT 3.8 s Unit dBm

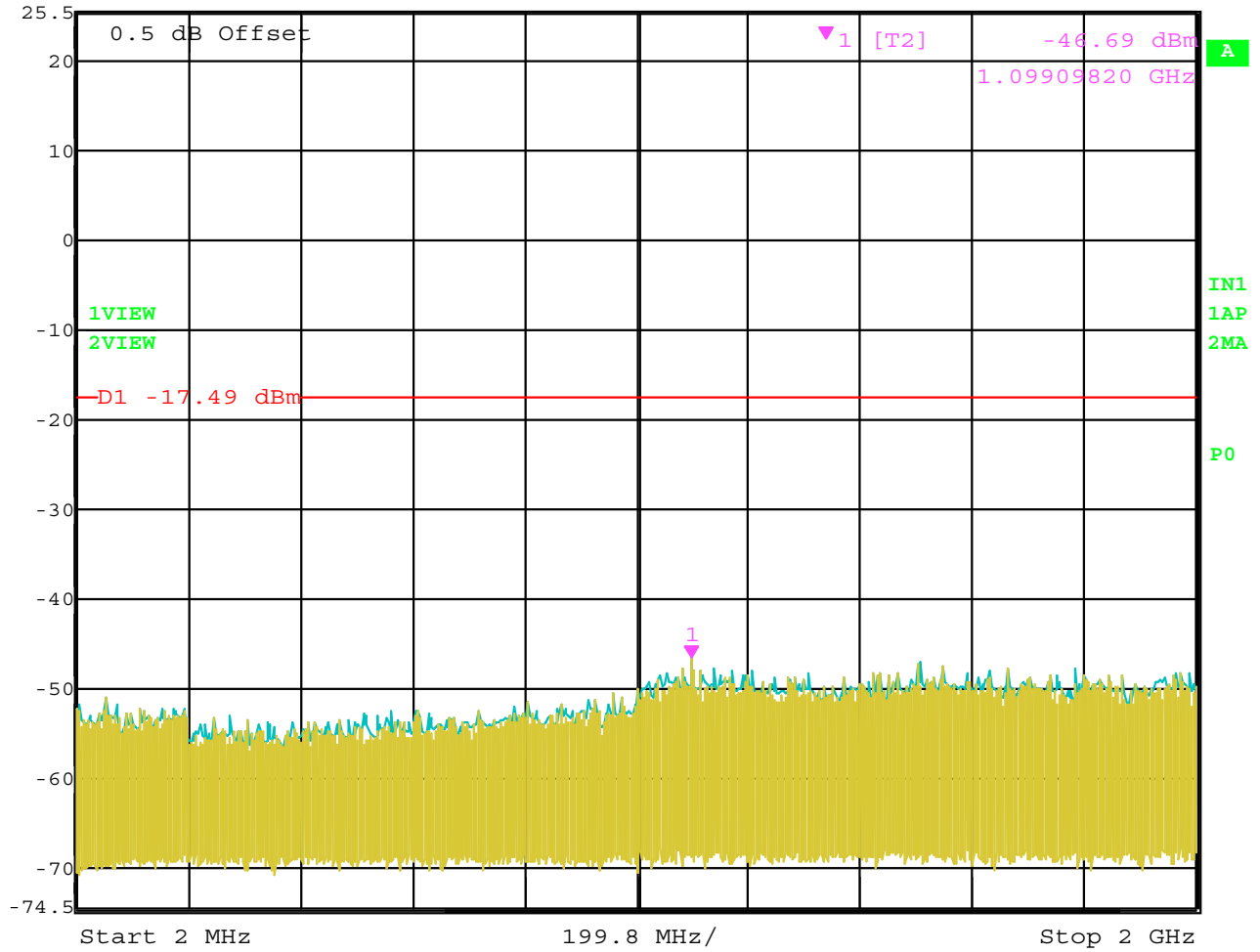


Date: 15.MAY.2006 11:49:10

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -46.69 dBm VBW 300 kHz
25.5 dBm 1.09909820 GHz SWT 1.15 s Unit dBm

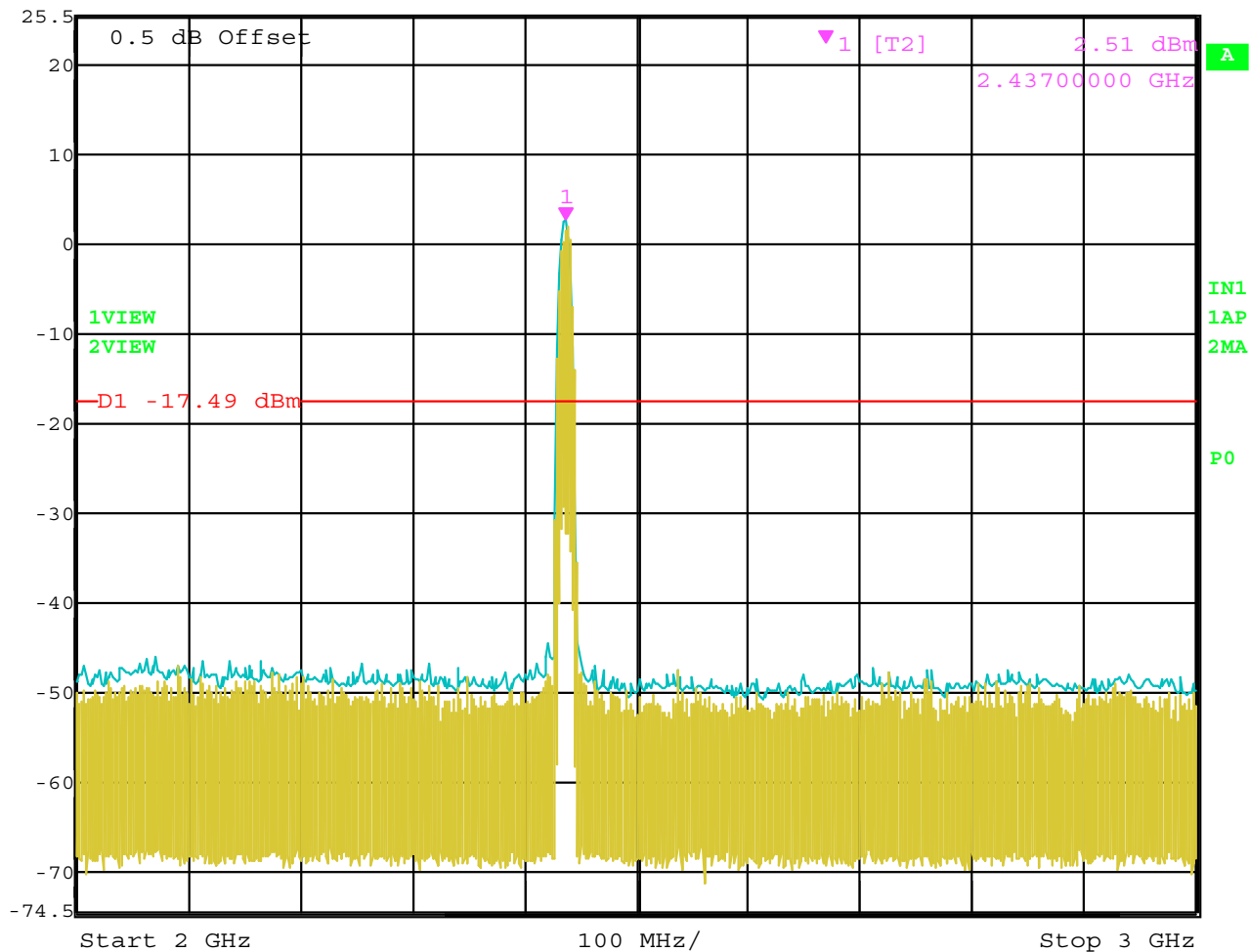


Date: 15.MAY.2006 11:52:37

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 2.51 dBm VBW 300 kHz
25.5 dBm 2.43700000 GHz SWT 250 ms Unit dBm

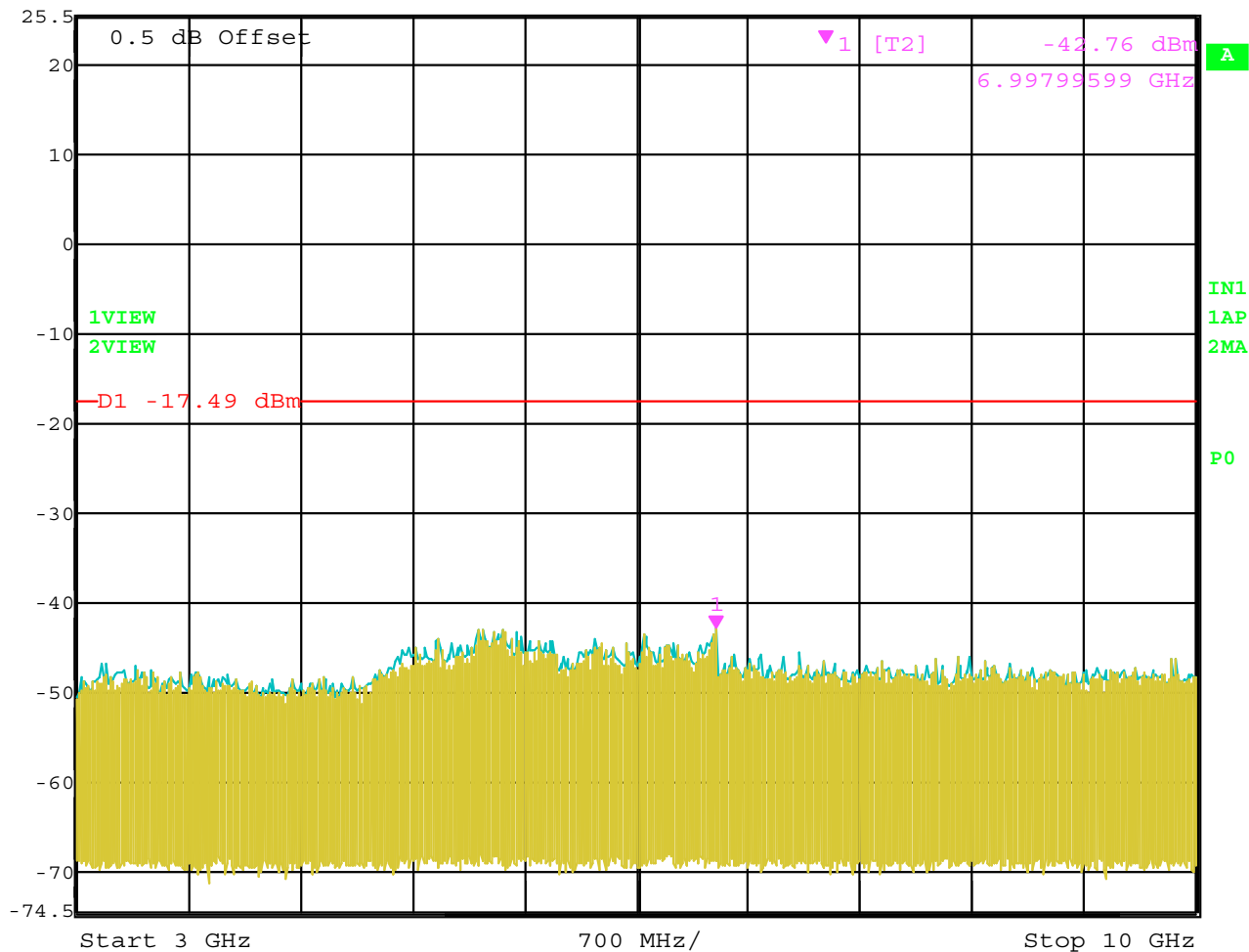


Date: 15.MAY.2006 11:51:57

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -42.76 dBm VBW 300 kHz
25.5 dBm 6.99799599 GHz SWT 1.75 s Unit dBm

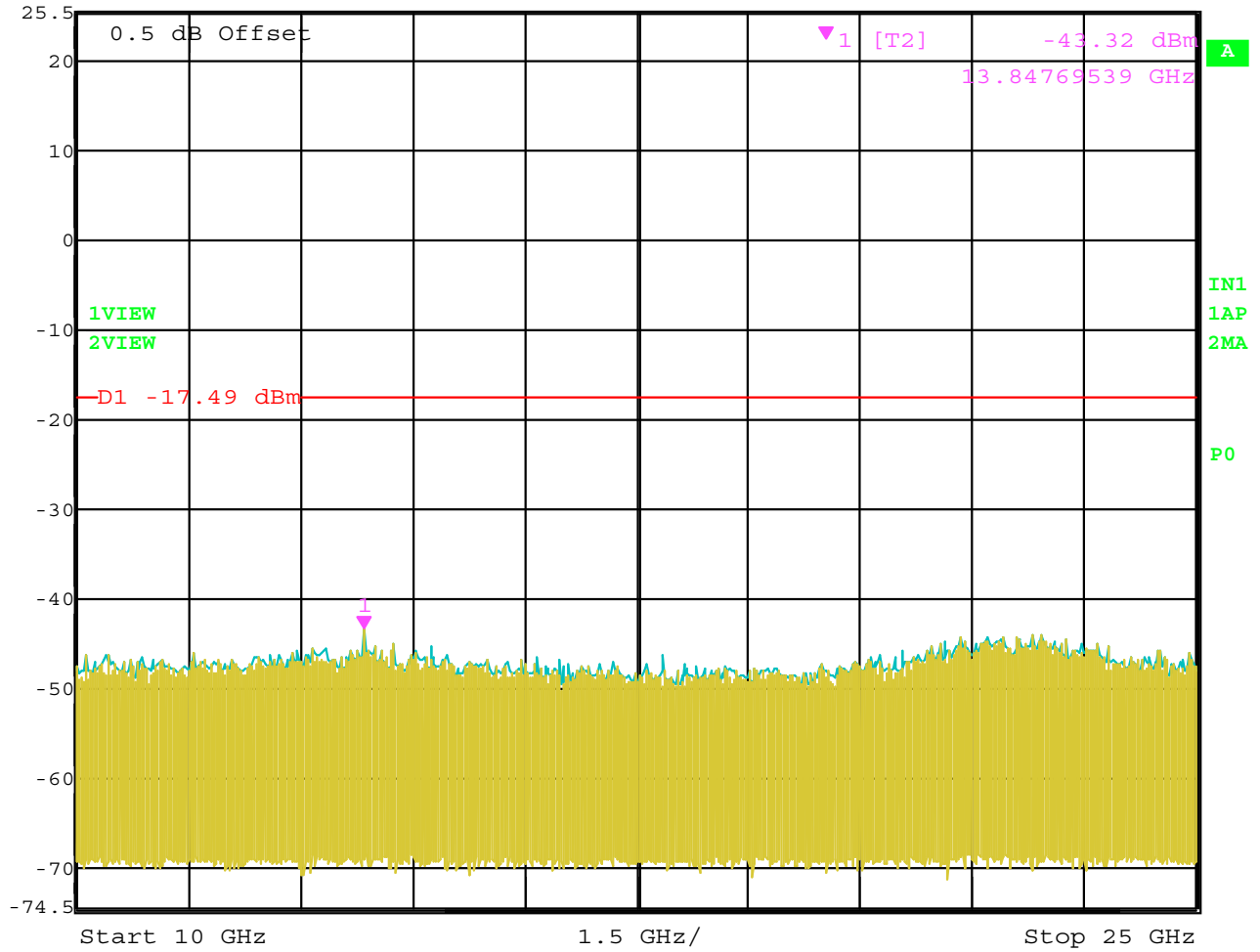


Date: 15.MAY.2006 11:53:09

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -43.32 dBm VBW 300 kHz
25.5 dBm 13.84769539 GHz SWT 3.8 s Unit dBm

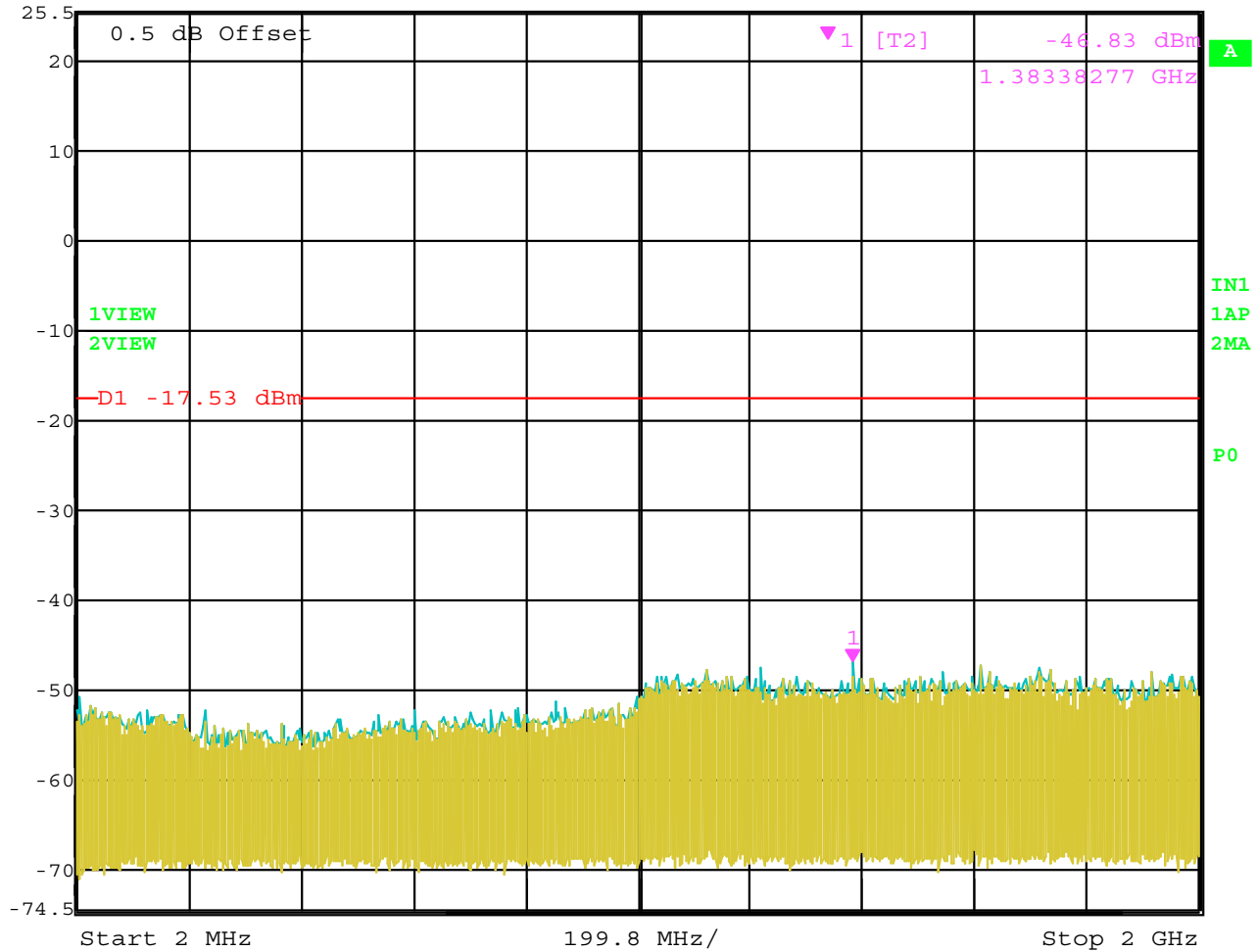


Date: 15.MAY.2006 11:53:44

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -46.83 dBm VBW 300 kHz
25.5 dBm 1.38338277 GHz SWT 1.15 s Unit dBm

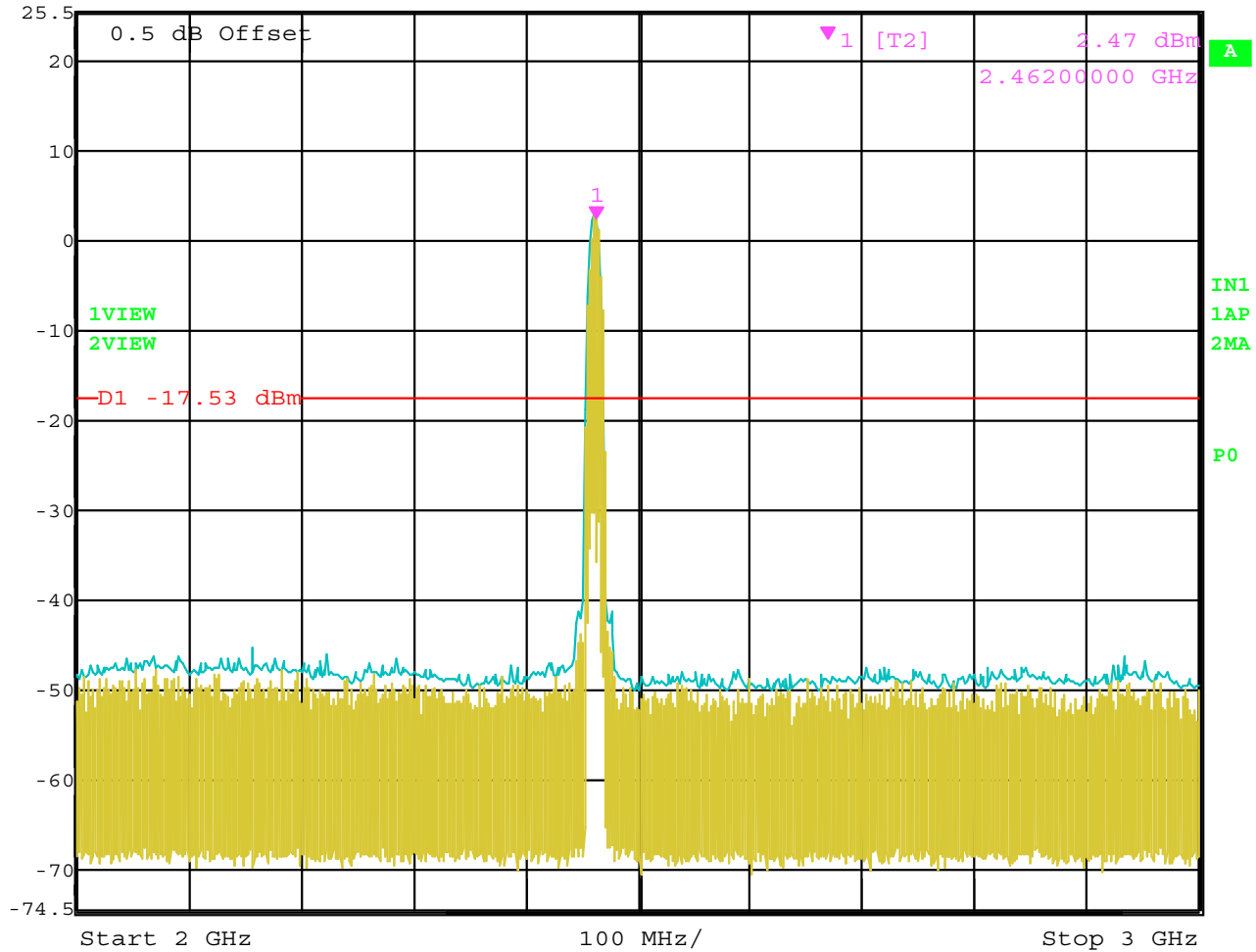


Date: 15.MAY.2006 11:57:44

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 2.47 dBm VBW 300 kHz
25.5 dBm 2.46200000 GHz SWT 250 ms Unit dBm

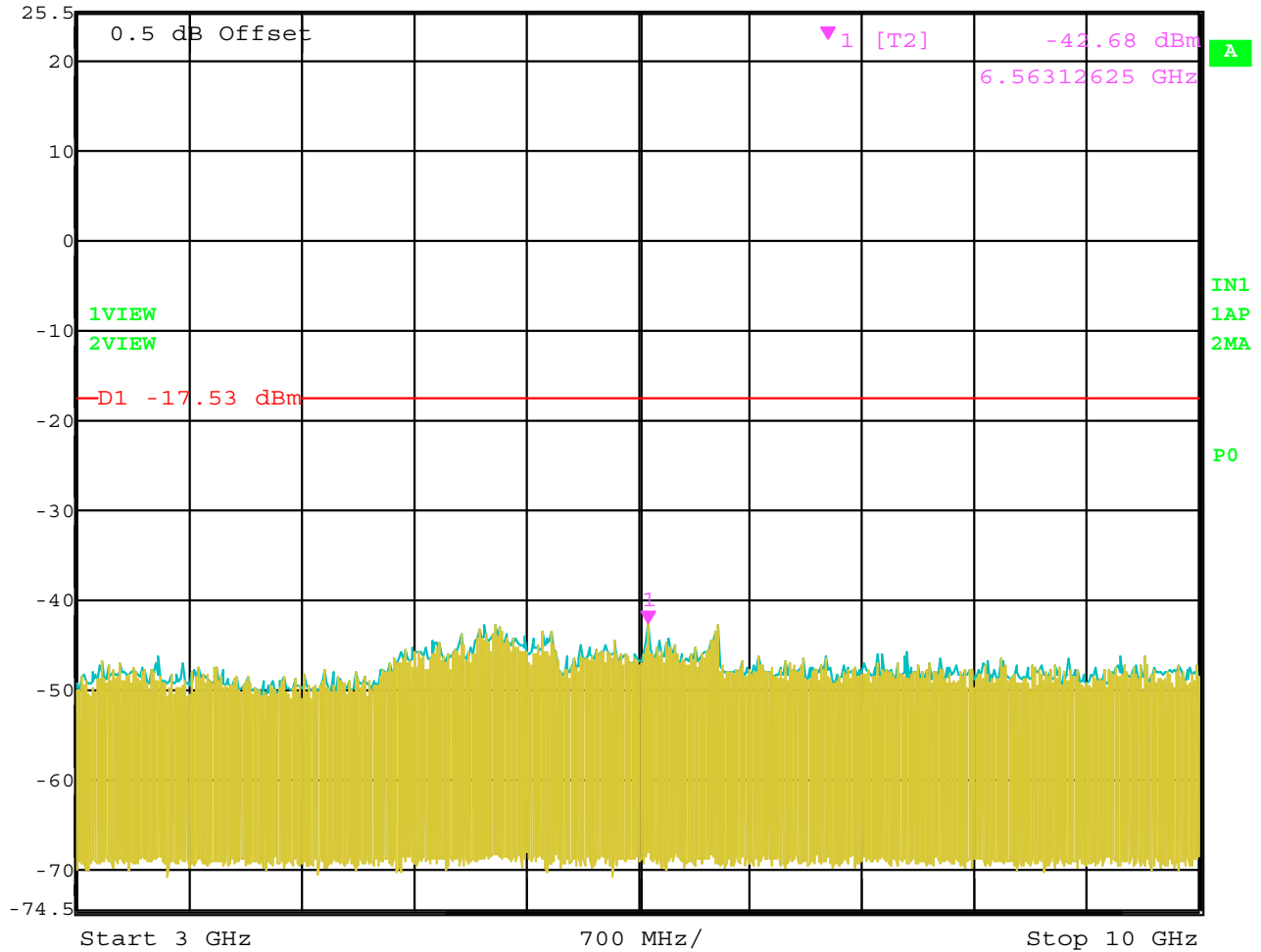


Date: 15.MAY.2006 11:57:12

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -42.68 dBm VBW 300 kHz
25.5 dBm 6.56312625 GHz SWT 1.75 s Unit dBm



Date: 15.MAY.2006 11:58:17

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -43.62 dBm VBW 300 kHz
25.5 dBm 22.62525050 GHz SWT 3.8 s Unit dBm

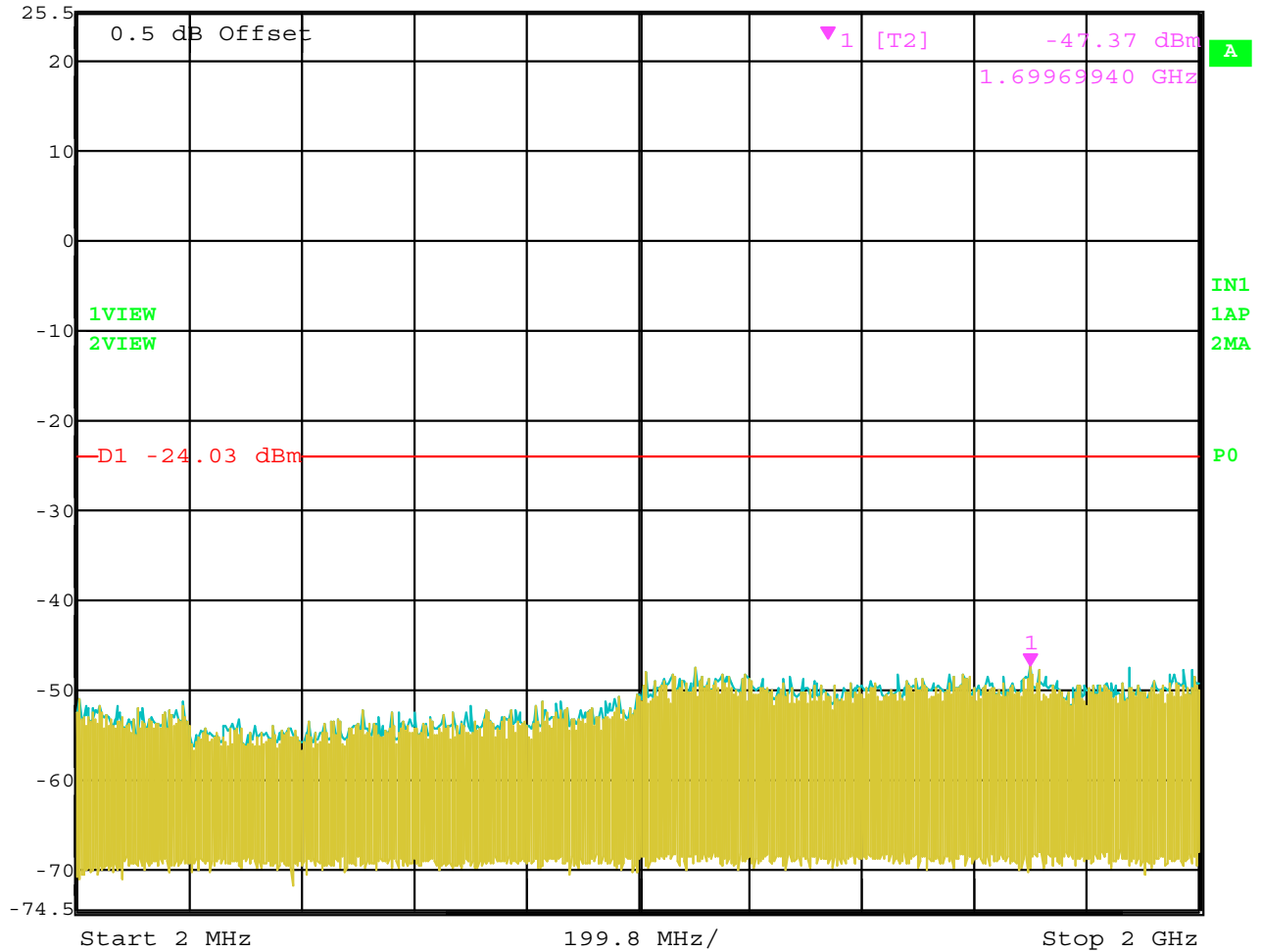


Date: 15.MAY.2006 11:58:56

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -47.37 dBm VBW 300 kHz
25.5 dBm 1.69969940 GHz SWT 1.15 s Unit dBm

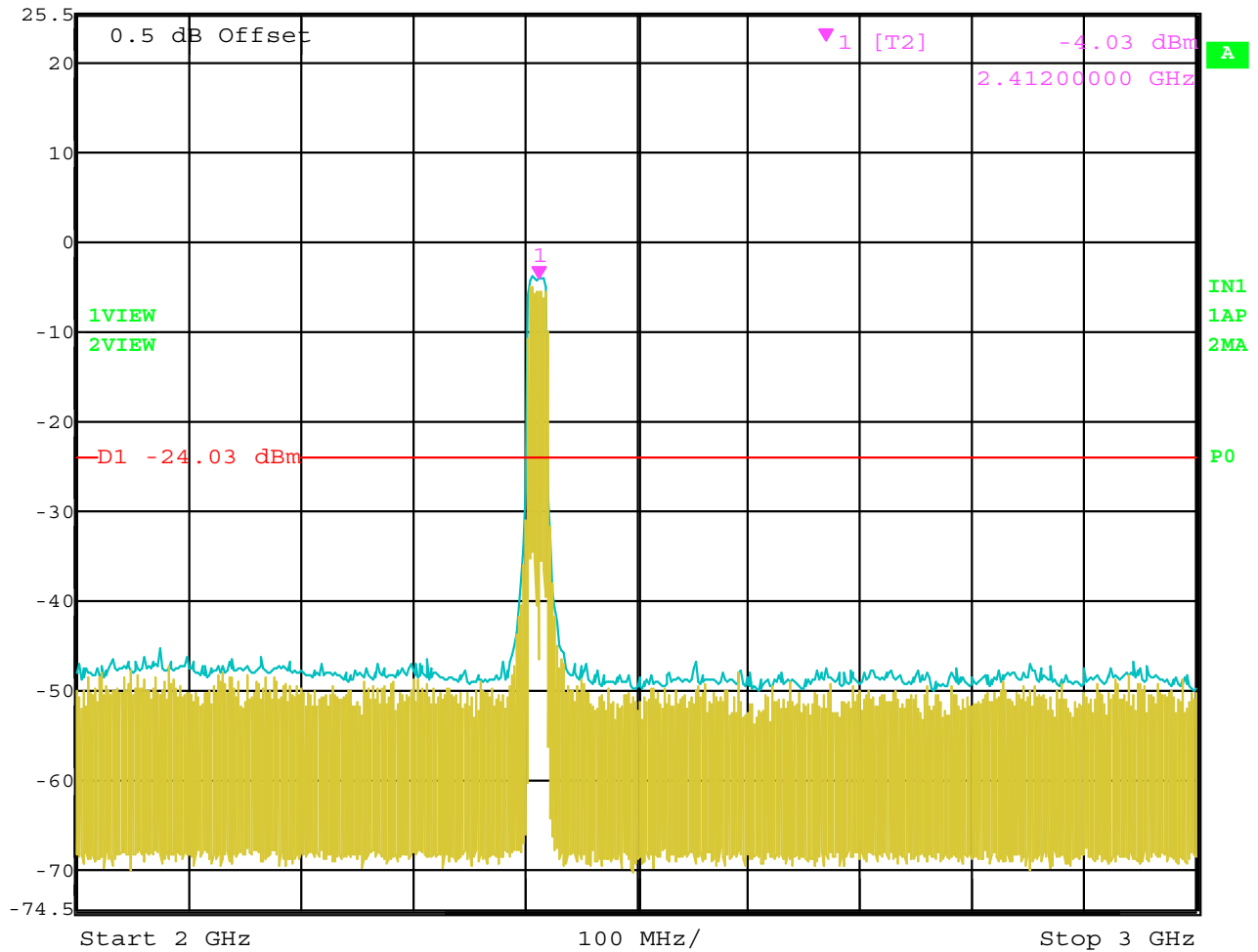


Date: 15.MAY.2006 11:41:27

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -4.03 dBm VBW 300 kHz
25.5 dBm 2.41200000 GHz SWT 250 ms Unit dBm

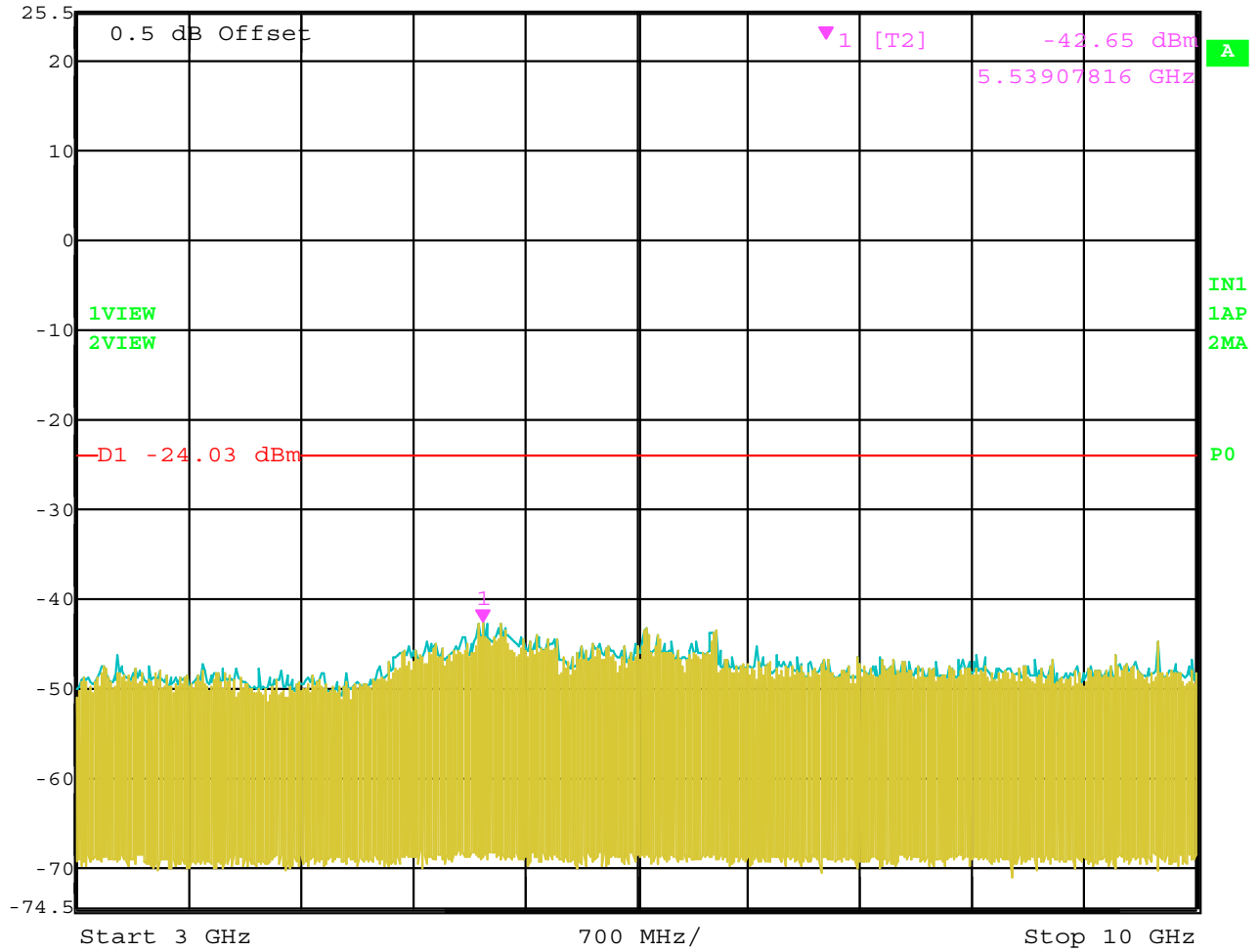


Date: 15.MAY.2006 11:40:06

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -42.65 dBm VBW 300 kHz
25.5 dBm 5.53907816 GHz SWT 1.75 s Unit dBm

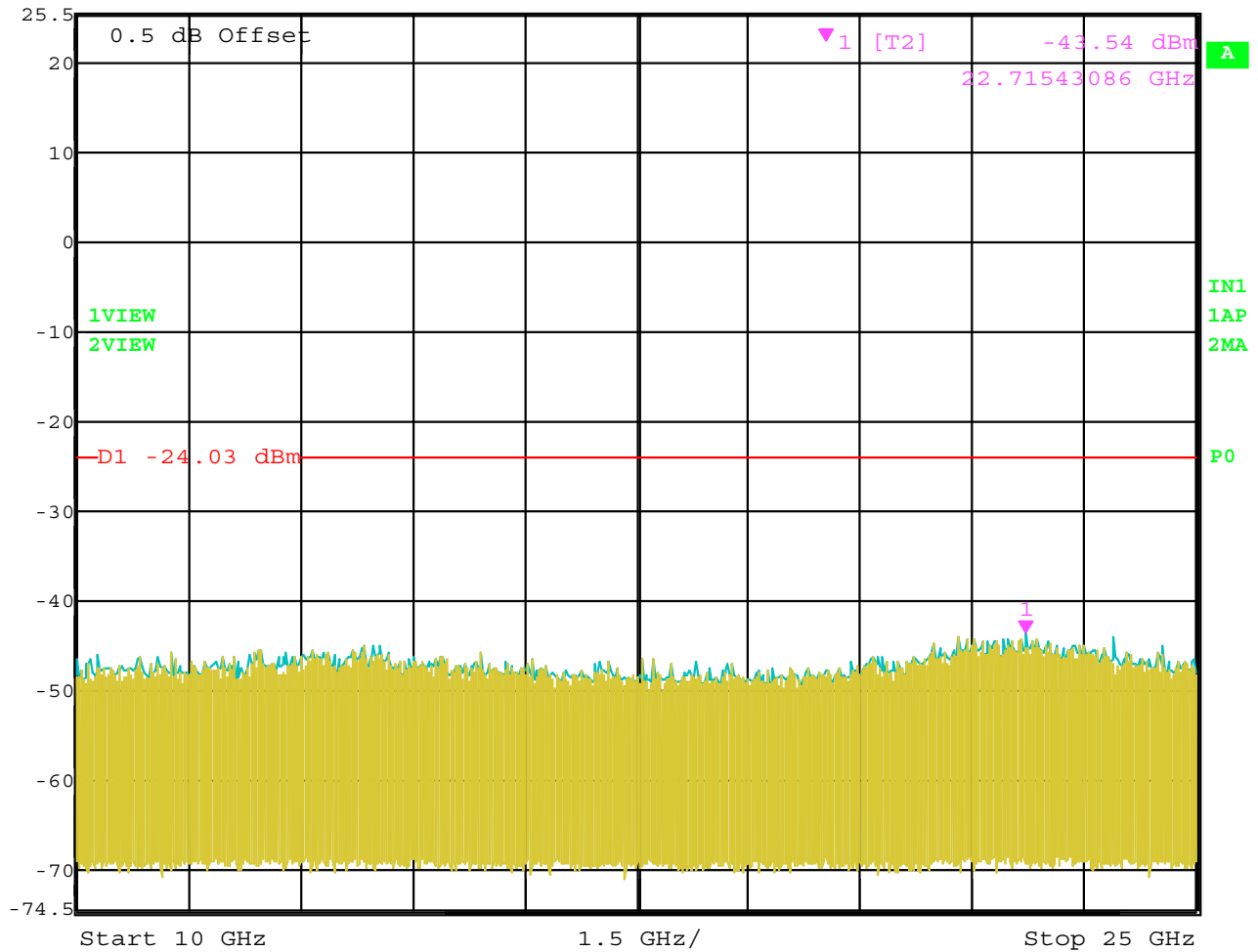


Date: 15.MAY.2006 11:42:03

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -43.54 dBm VBW 300 kHz
25.5 dBm 22.71543086 GHz SWT 3.8 s Unit dBm

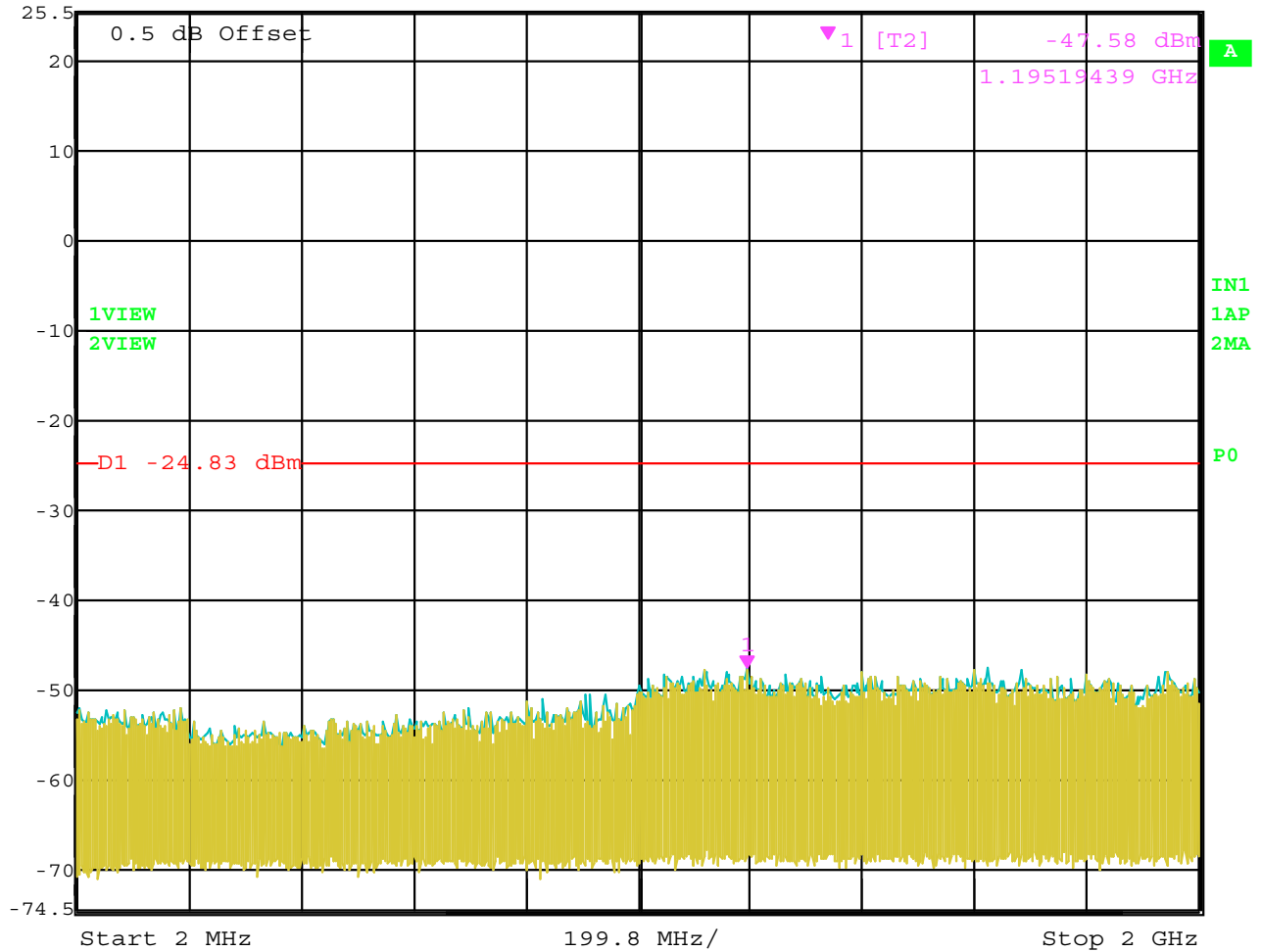


Date: 15.MAY.2006 11:42:44

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -47.58 dBm VBW 300 kHz
25.5 dBm 1.19519439 GHz SWT 1.15 s Unit dBm

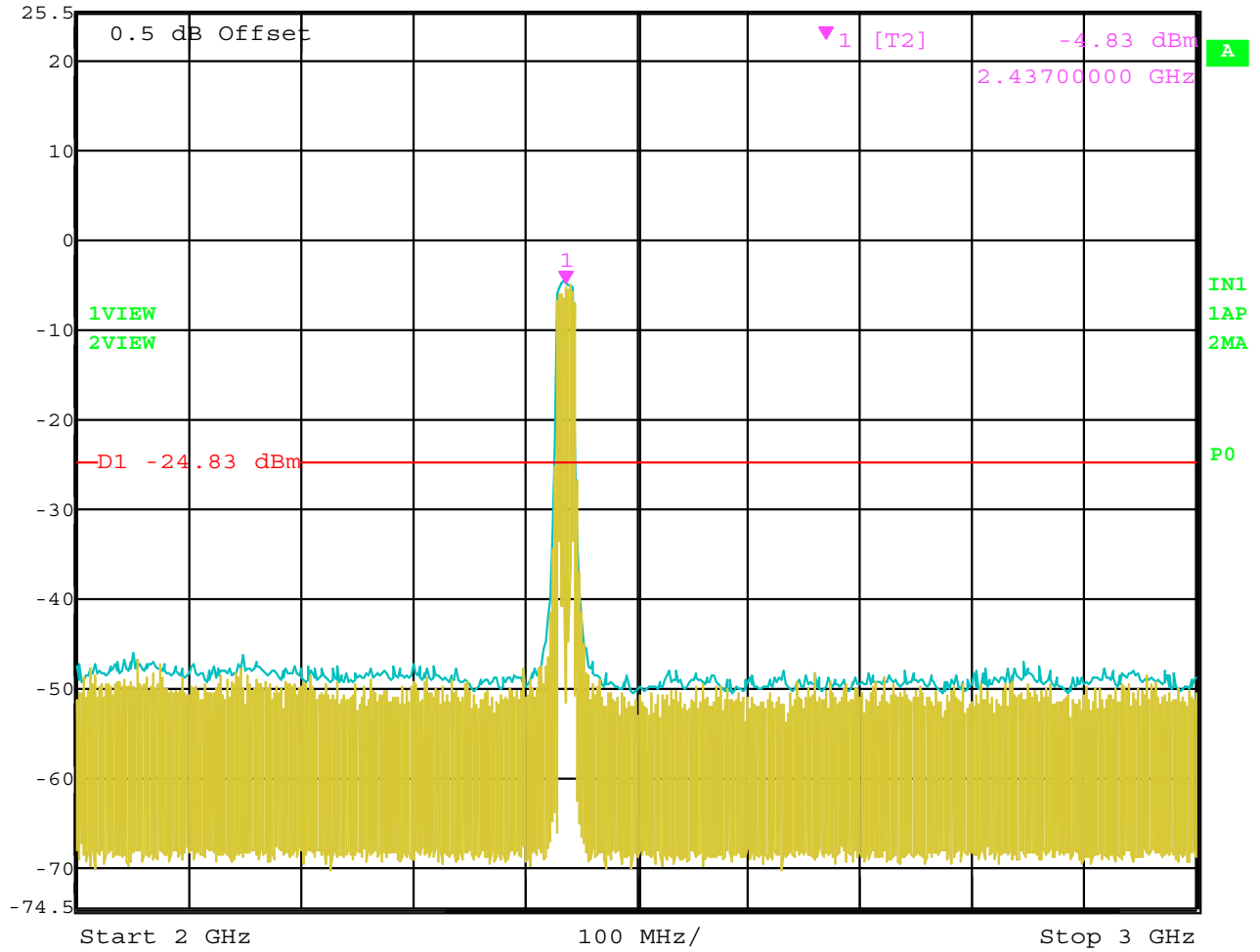


Date: 15.MAY.2006 11:33:39

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -4.83 dBm VBW 300 kHz
25.5 dBm 2.43700000 GHz SWT 250 ms Unit dBm

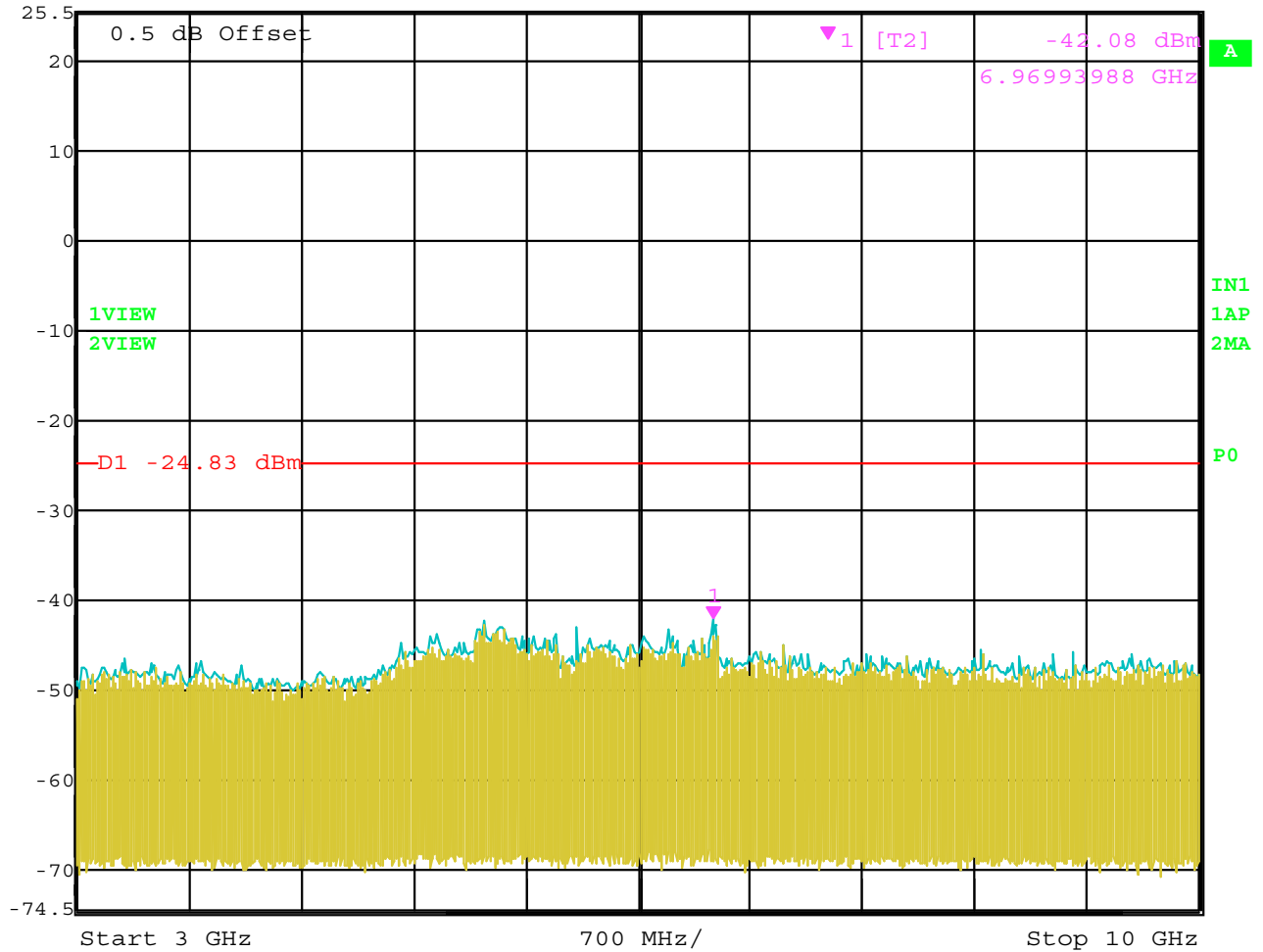


Date: 15.MAY.2006 11:33:05

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -42.08 dBm VBW 300 kHz
25.5 dBm 6.96993988 GHz SWT 1.75 s Unit dBm



Date: 15.MAY.2006 11:34:32

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -43.66 dBm VBW 300 kHz
25.5 dBm 23.04609218 GHz SWT 3.8 s Unit dBm

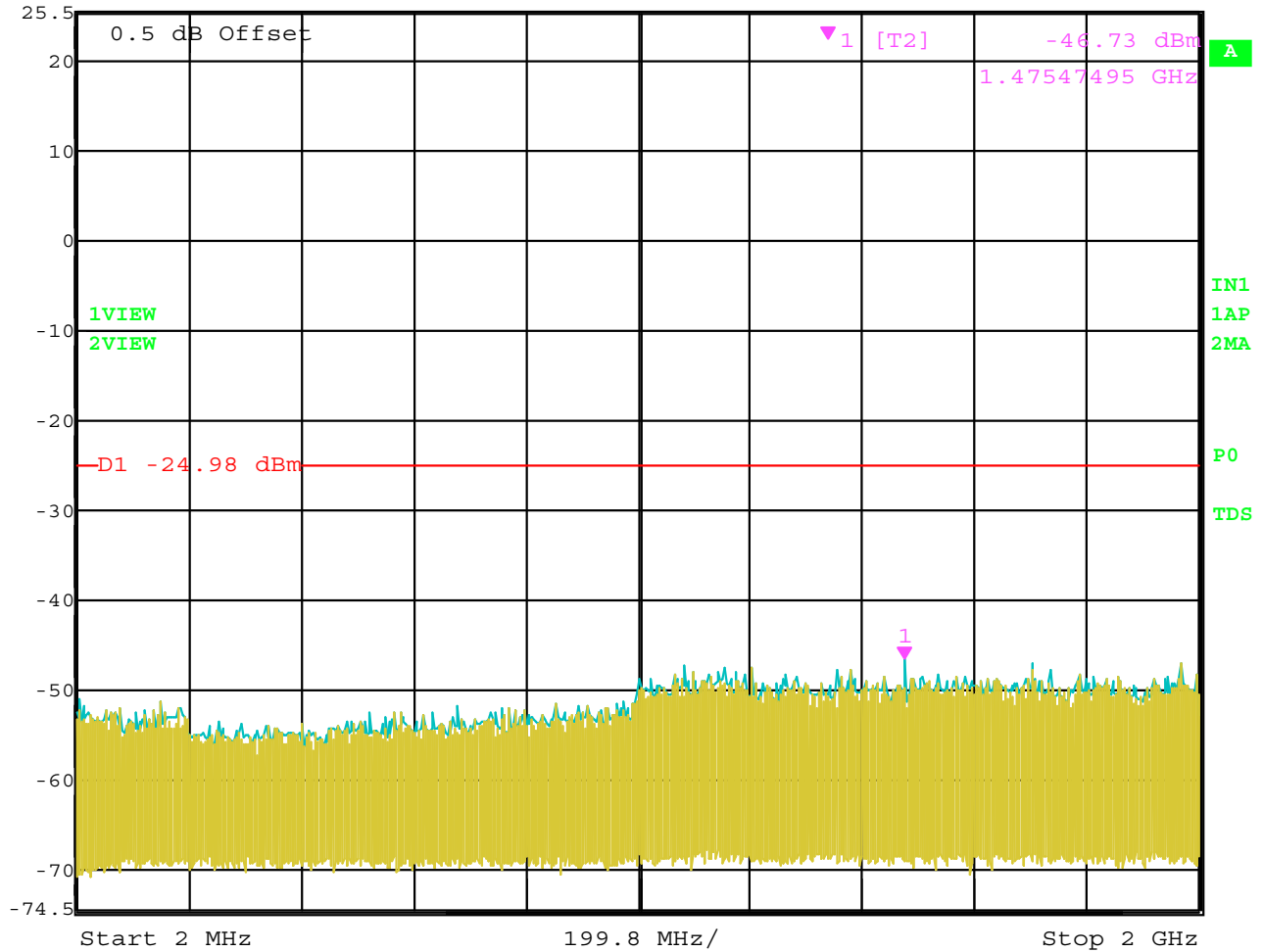


Date: 15.MAY.2006 11:36:33

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -46.73 dBm VBW 300 kHz
25.5 dBm 1.47547495 GHz SWT 1.15 s Unit dBm

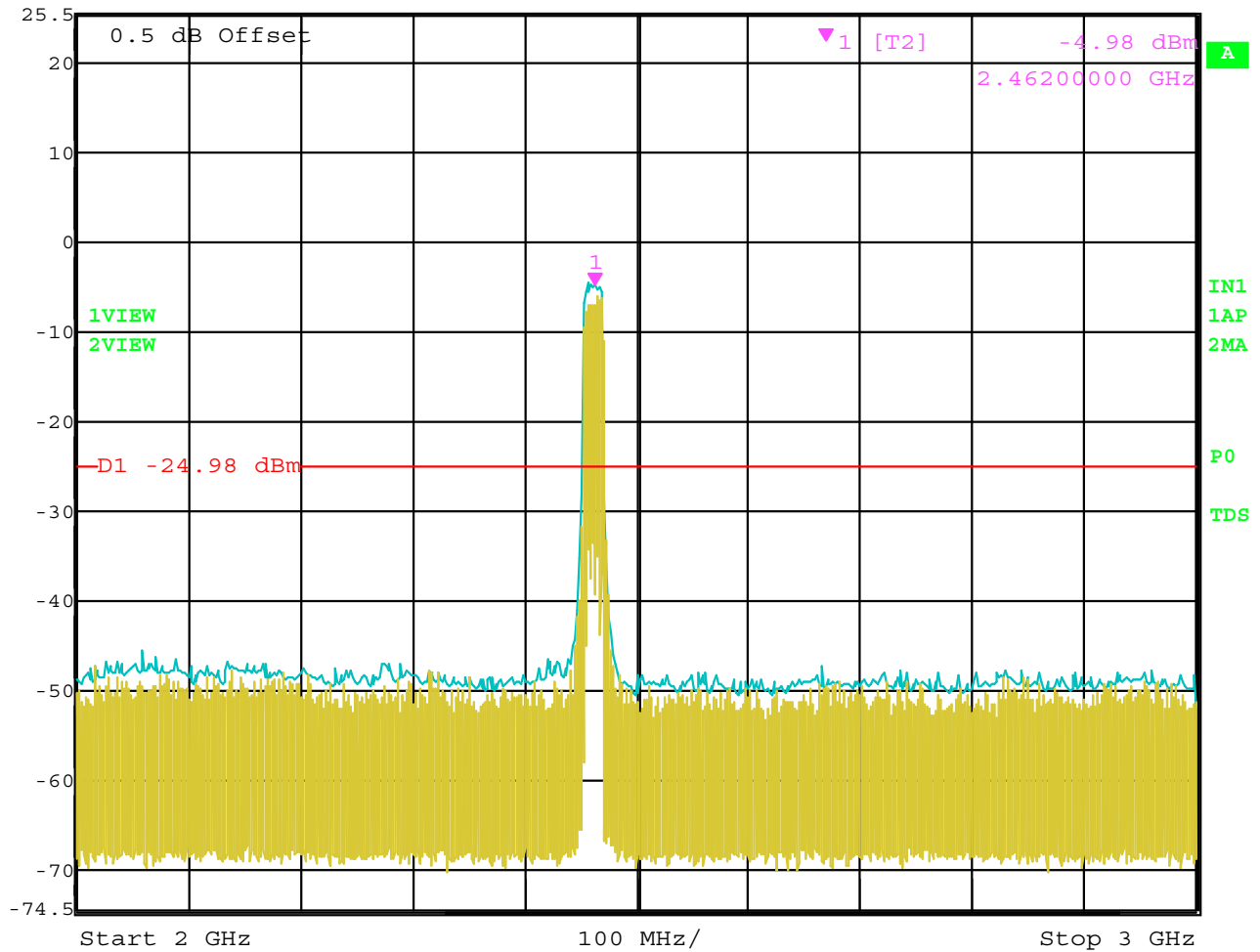


Date: 15.MAY.2006 11:27:21

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -4.98 dBm VBW 300 kHz
25.5 dBm 2.46200000 GHz SWT 250 ms Unit dBm

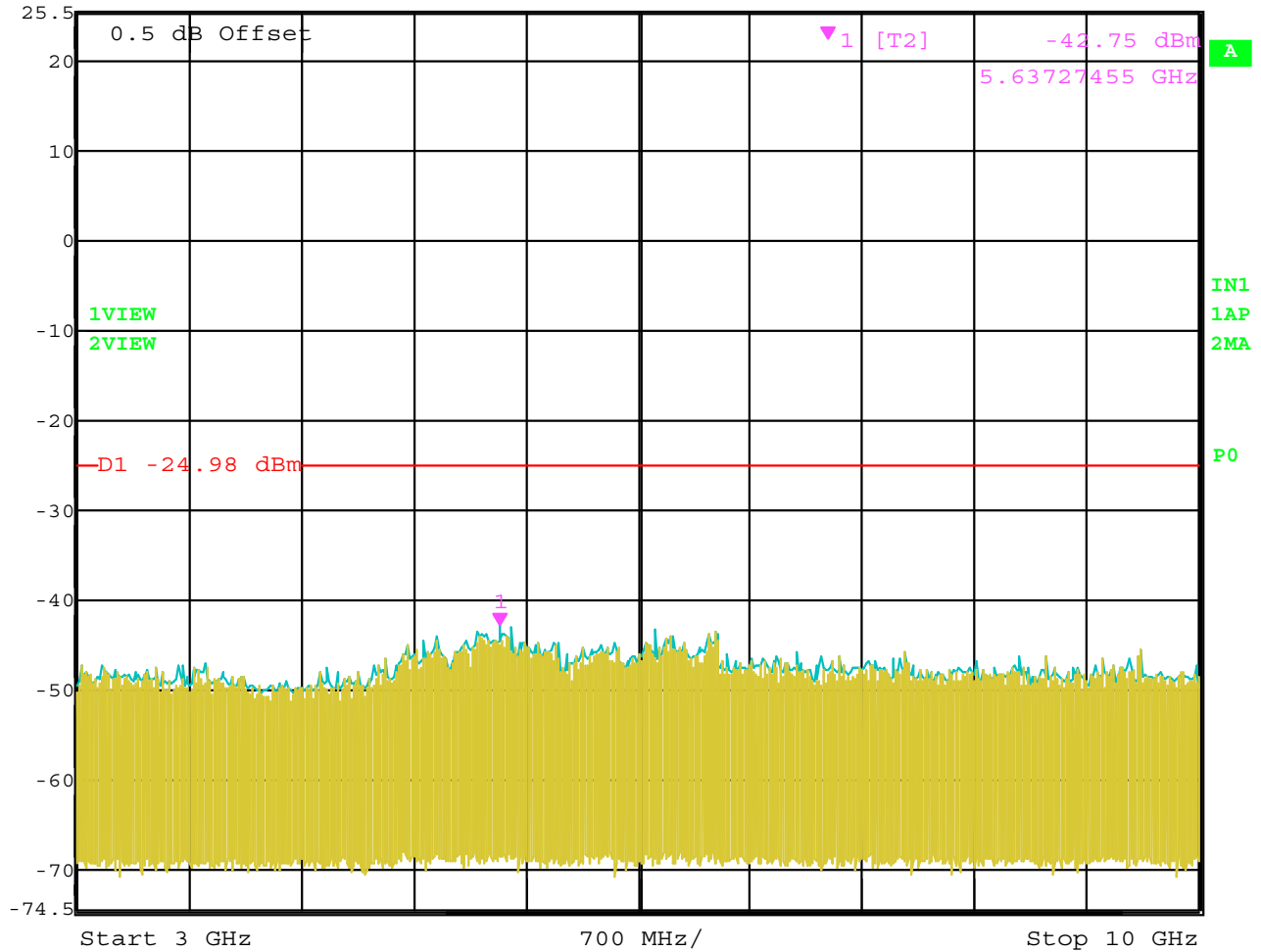


Date: 15.MAY.2006 11:26:42

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -42.75 dBm VBW 300 kHz
25.5 dBm 5.63727455 GHz SWT 1.75 s Unit dBm

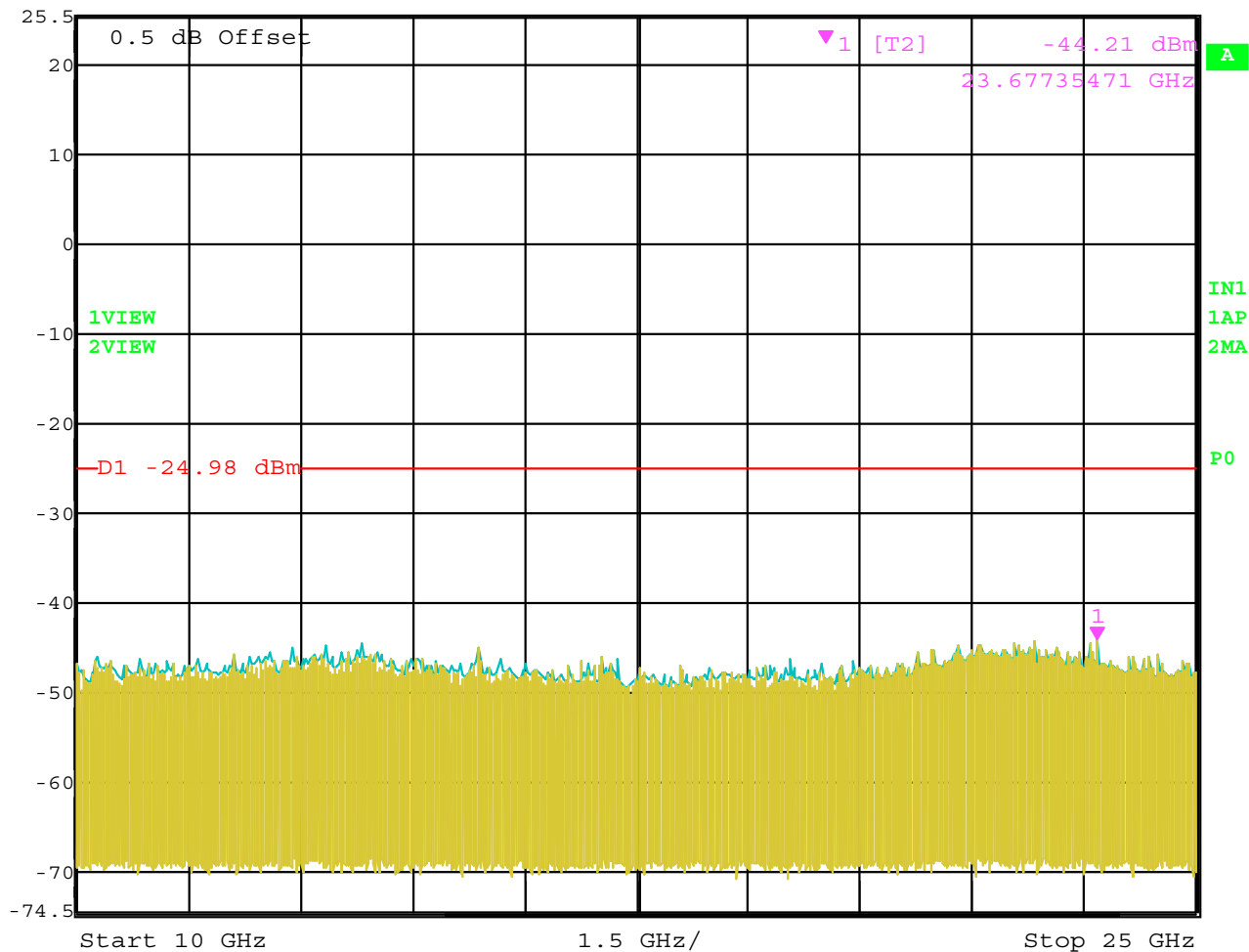


Date: 15.MAY.2006 11:28:48

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -44.21 dBm VBW 300 kHz
25.5 dBm 23.67735471 GHz SWT 3.8 s Unit dBm



Date: 15.MAY.2006 11:28:10

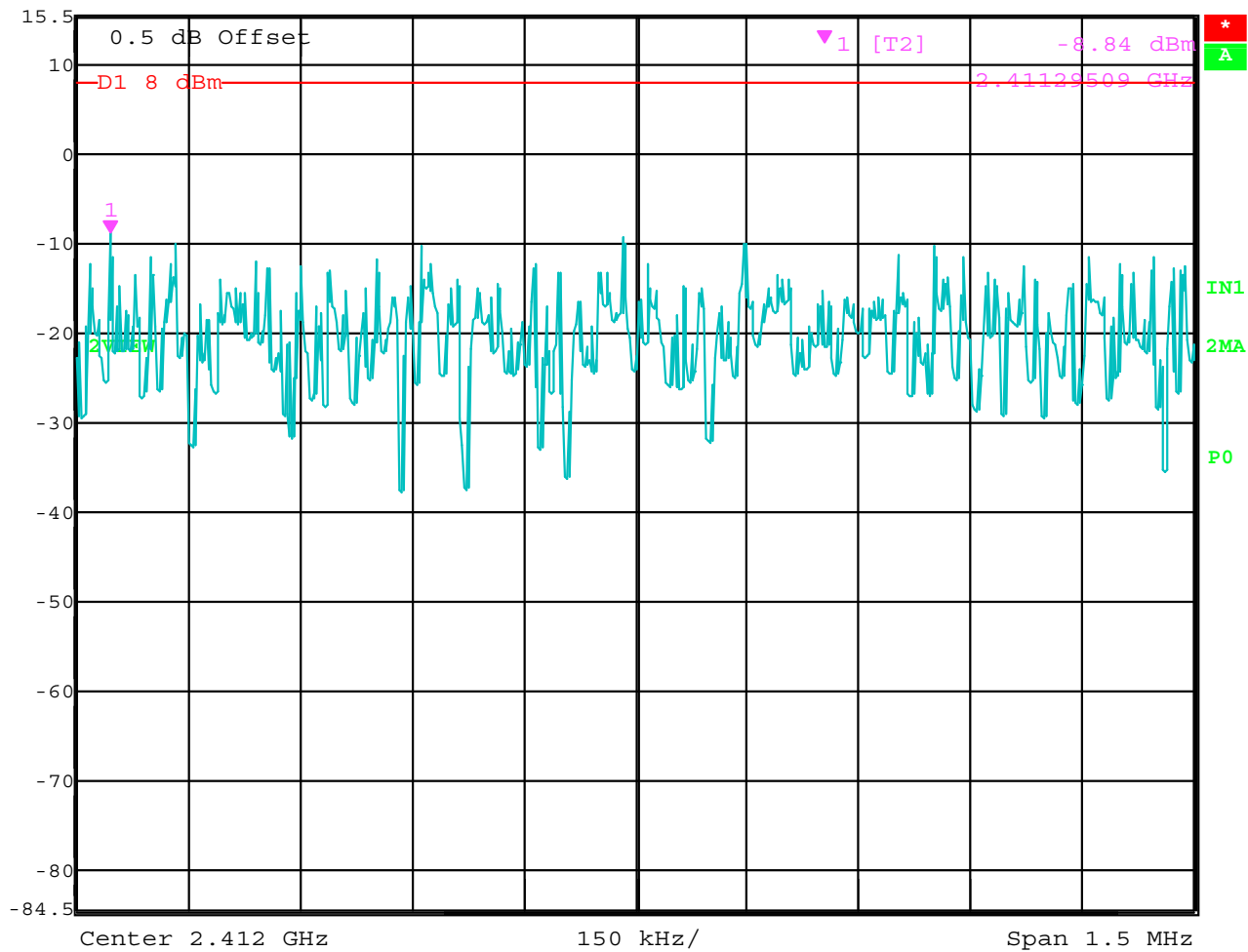
RF Antenna Conducted Test – 802.11 g Mode – Channel 11 – 10 GHz to 25 GHz

PEAK POWER SPECTRAL DENSITY

DATA SHEETS



Marker 1 [T2] RBW 3 kHz RF Att 30 dB
Ref Lvl -8.84 dBm VBW 10 kHz
15.5 dBm 2.41129509 GHz SWT 500 s Unit dBm

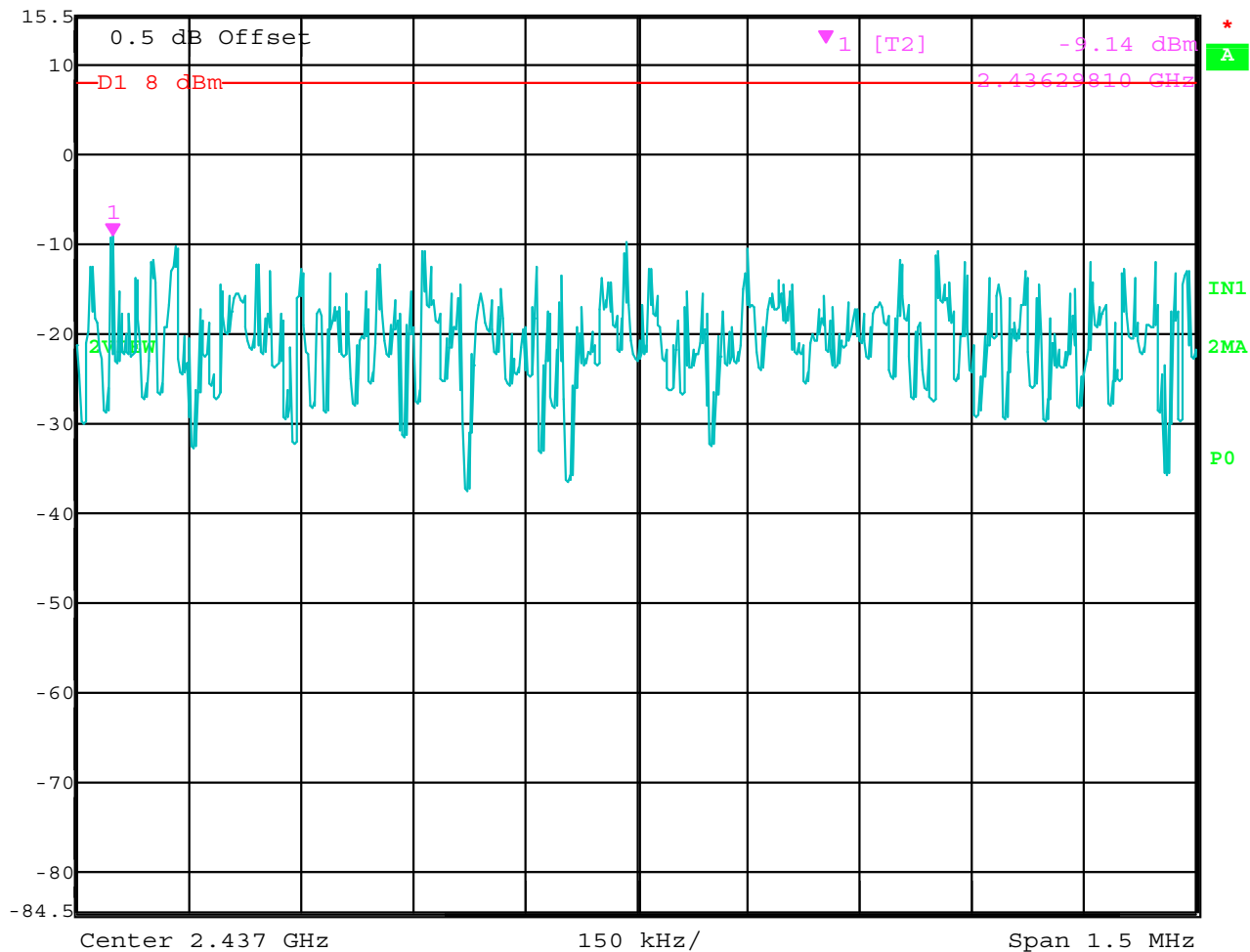


Date: 15.MAY.2006 14:57:29

Spectral Density Output – Channel 1 – 802.11 b Mode



Marker 1 [T2] RBW 3 kHz RF Att 30 dB
Ref Lvl -9.14 dBm VBW 10 kHz
15.5 dBm 2.43629810 GHz SWT 500 s Unit dBm

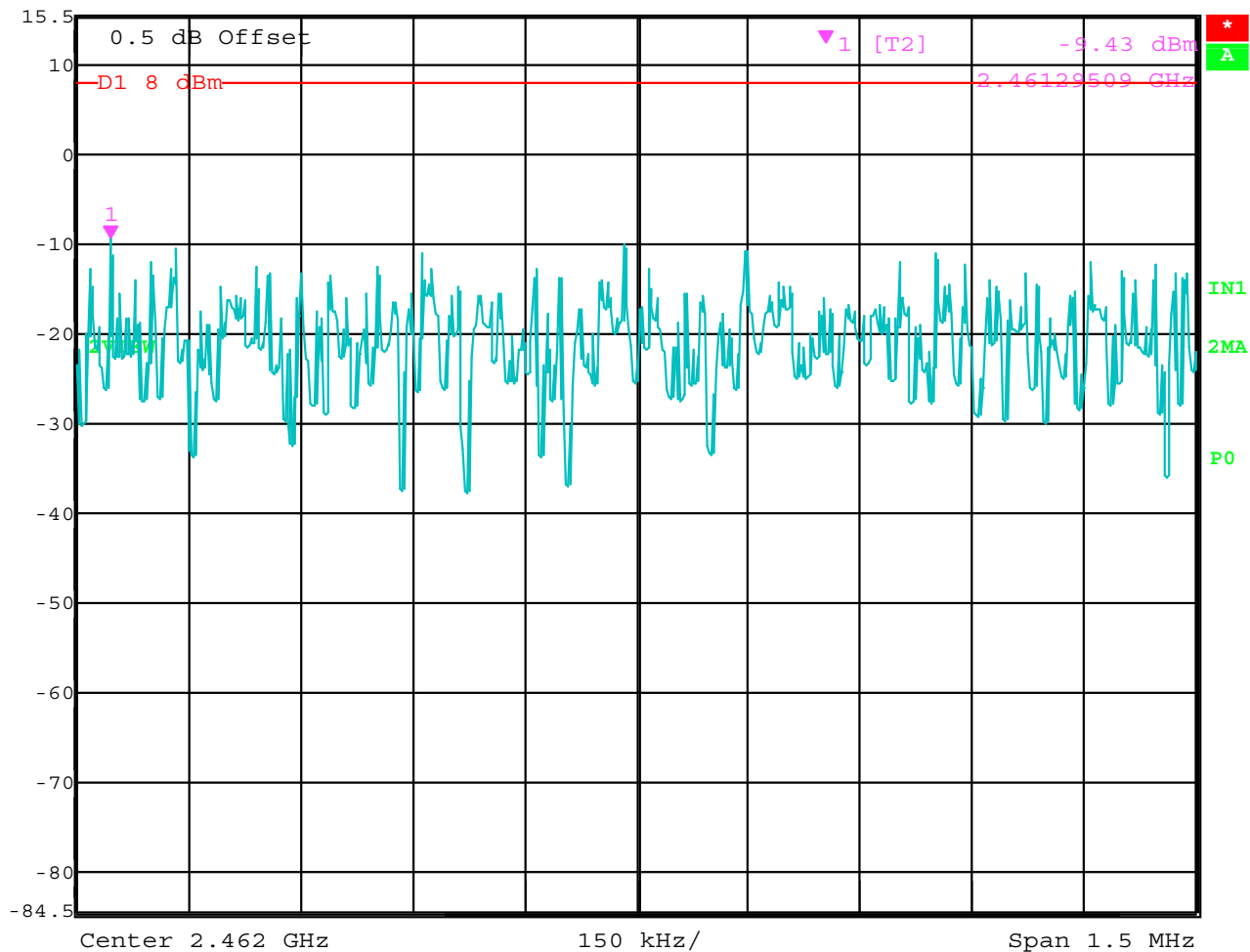


Date: 15.MAY.2006 13:05:21

Spectral Density Output – Channel 6 – 802.11 b Mode



Marker 1 [T2] RBW 3 kHz RF Att 30 dB
Ref Lvl -9.43 dBm VBW 10 kHz
15.5 dBm 2.46129509 GHz SWT 500 s Unit dBm

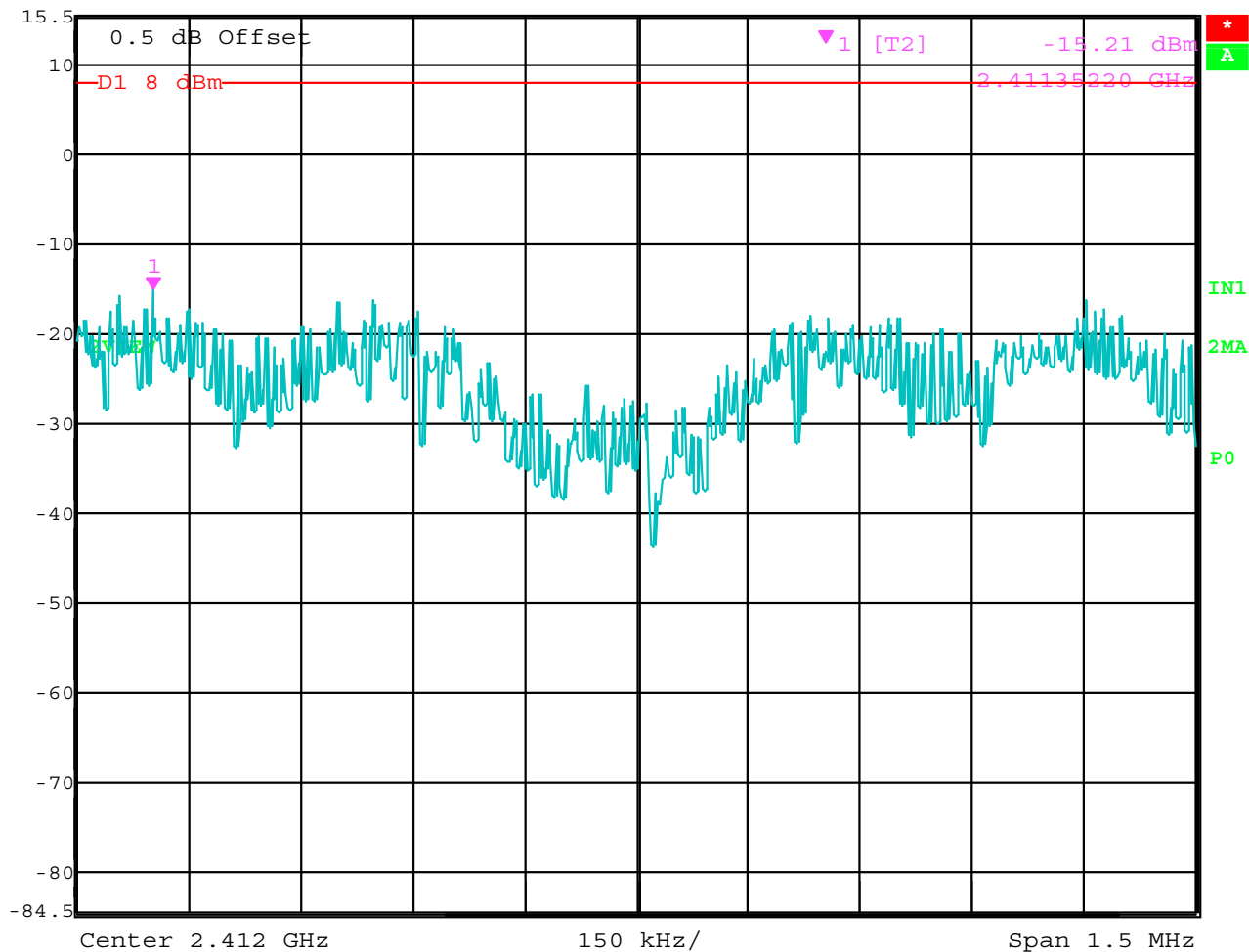


Date: 15.MAY.2006 12:55:52

Spectral Density Output - Channel 11 - 802.11 b Mode



Ref Lvl 15.5 dBm
Marker 1 [T2] -15.21 dBm
RBW 3 kHz
VBW 10 kHz
RF Att 30 dB
SWT 500 s
Unit dBm

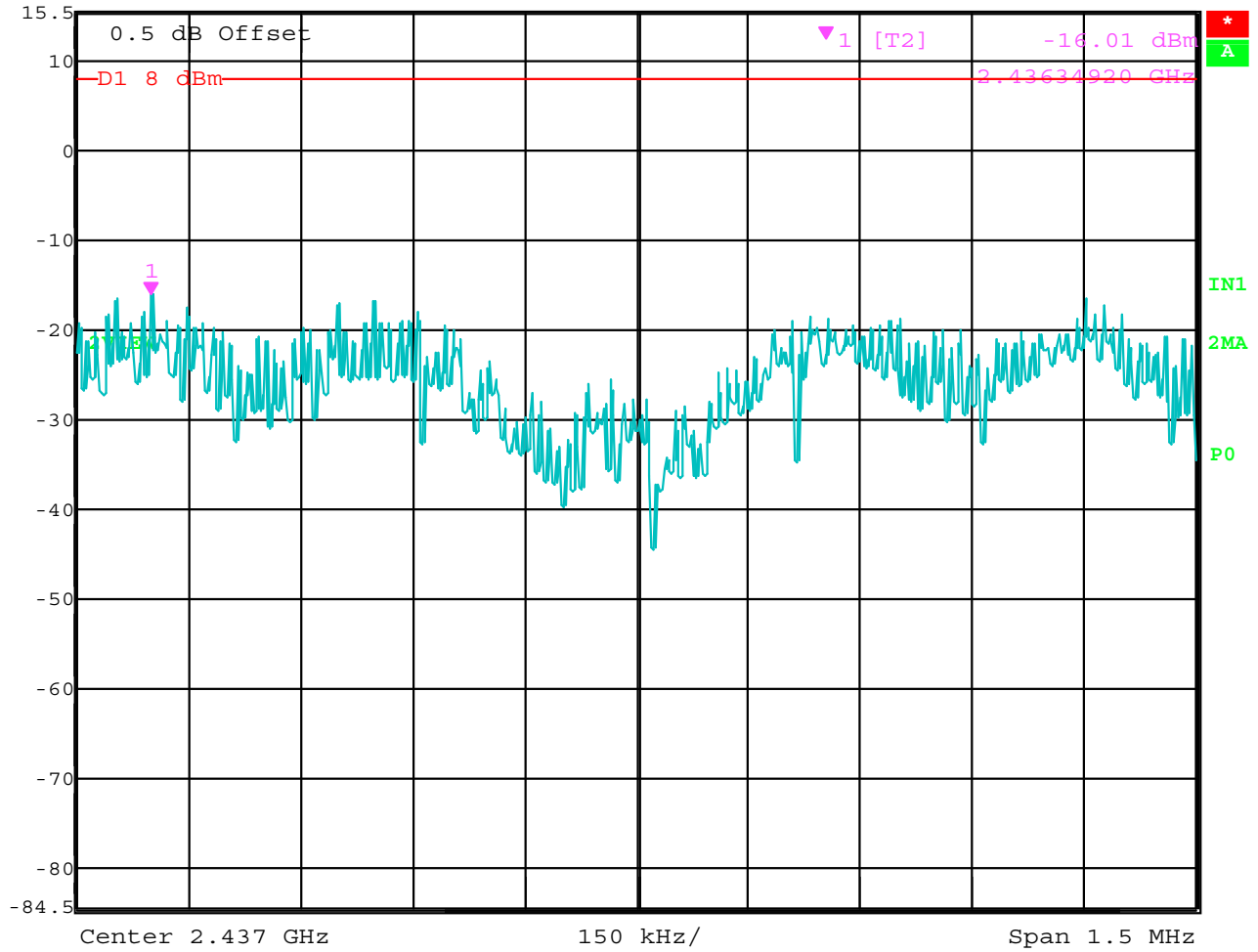


Date: 15.MAY.2006 15:21:59

Spectral Density Output – Channel 1 – 802.11 g Mode



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	30 dB
15.5 dBm	-16.01 dBm	VBW	10 kHz		
	2.43634920 GHz	SWT	500 s	Unit	dBm

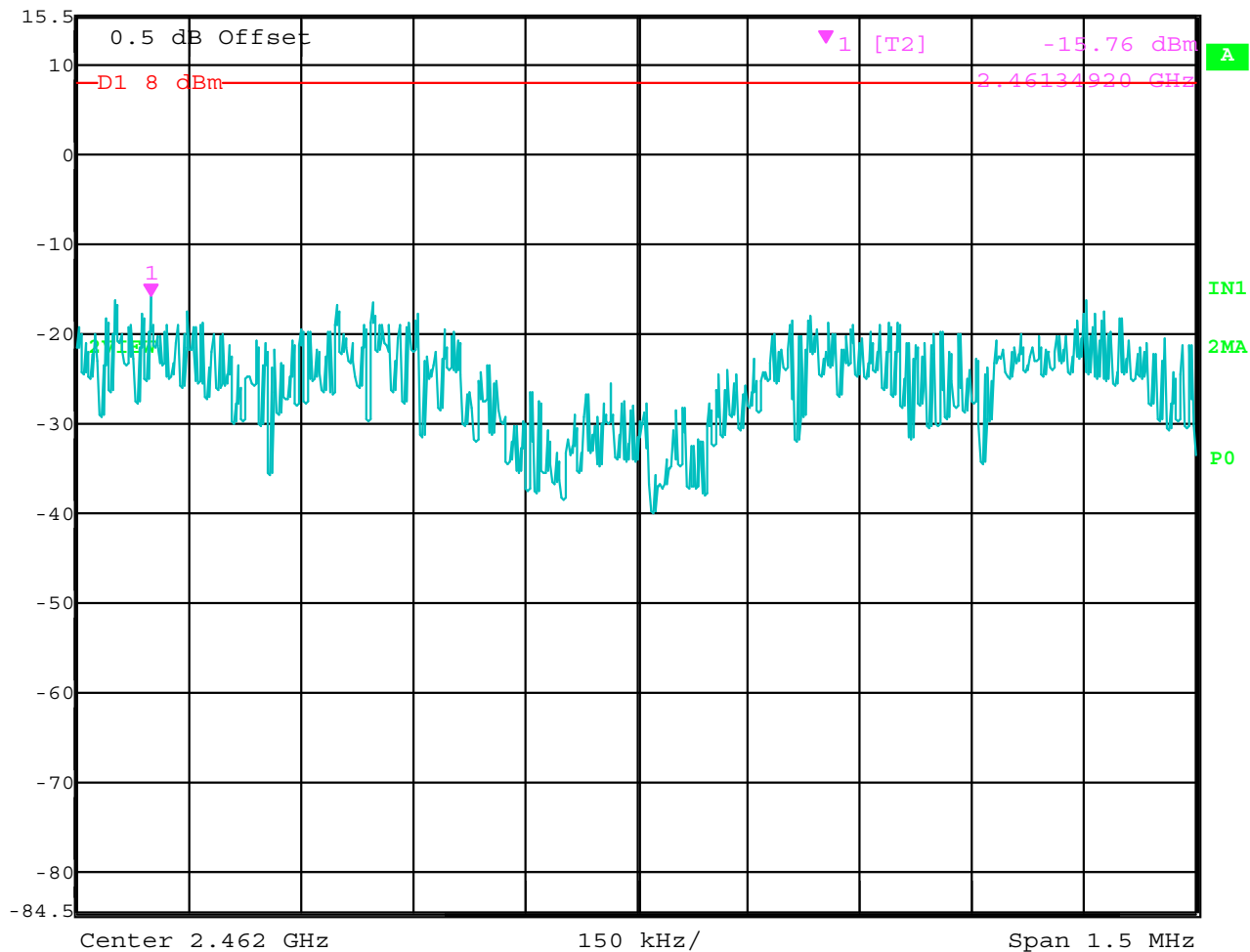


Date: 15.MAY.2006 15:34:30

Spectral Density Output – Channel 6 – 802.11 g Mode

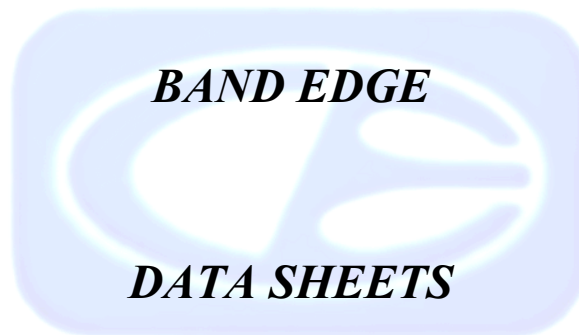


Ref Lvl 15.5 dBm
Marker 1 [T2] -15.76 dBm
2.46134920 GHz
RBW 3 kHz
RF Att 30 dB
VBW 10 kHz
SWT 500 s
Unit dBm



Date: 15.MAY.2006 15:43:46

Spectral Density Output – Channel 11 – 802.11 g Mode



FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/16/06

Lab: B

Tested By: Kyle Fujimoto

Worst Case - Z-axis for EUT itself**Transmit Mode - 802.11 b**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	108.23	V	--	--	Peak	3.1	225	Fundamental of Low Channel
2412	104.62	V	--	--	Avg	3.1	225	@ 3 Meters
2387.74	56.48	V	74	-17.52	Peak	3.1	225	No Marker Delta Method
2386.4	47.43	V	54	-6.57	Avg	3.1	225	Method Used
2437	108.92	V	--	--	Peak	2.64	135	Fundamental of Middle Channel
2437	104.66	V	--	--	Avg	2.64	135	@ 3 meters
2462	106.16	V	--	--	Peak	2.34	225	Fundamental of High Channel
2462	102.9	V	--	--	Avg	2.34	225	@ 3 Meters
2483.7	53.33	V	74	-20.67	Peak	2.34	225	No Marker Delta Method
2483.5	42	V	54	-12	Avg	2.34	225	Method Used

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/16/06

Lab: B

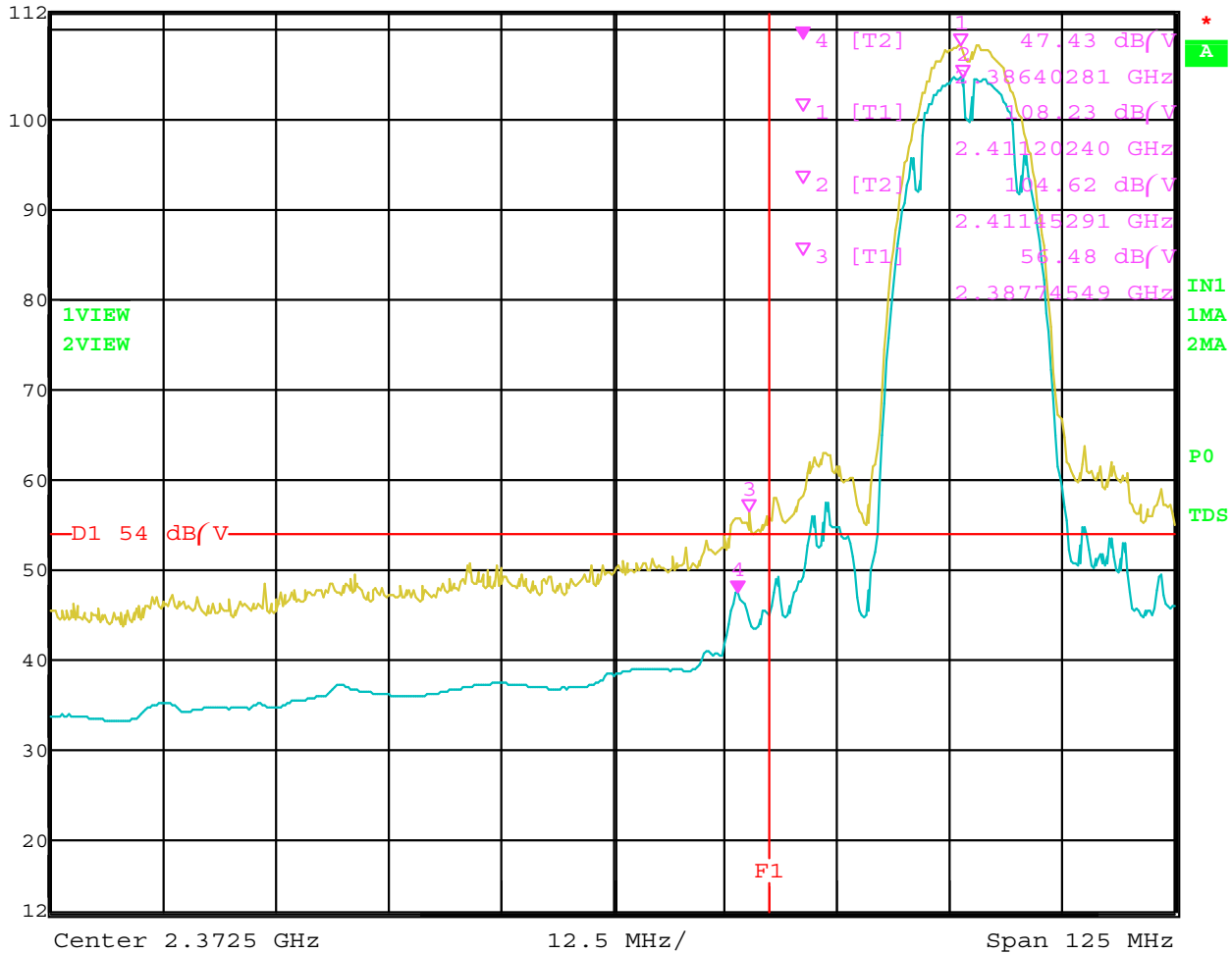
Tested By: Kyle Fujimoto

Worst Case - Z-axis for EUT itself**Transmit Mode - 802.11 b**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	99.73	H	--	--	Peak	3.29	135	Fundamental of Low Channel
2412	96.47	H	--	--	Avg	3.29	135	@ 3 meters
2386.24	51.66	H	74	-22.34	Peak	3.29	135	No Marker Delta Method
2386.24	42.62	H	54	-11.38	Avg	3.29	135	Method Used
2437	98.23	H	--	--	Peak	1.91	225	Fundamental of Middle Channel
2437	94.17	H	--	--	Avg	1.91	225	@ 3 meters
2462	97.21	H	--	--	Peak	2.38	135	Fundamental of High Channel
2462	93.98	H	--	--	Avg	2.38	135	@ 3 meters
2483.5	47.11	H	74	-26.89	Peak	2.38	135	No Marker Delta Method
2483.5	34.87	H	54	-19.13	Avg	2.38	135	Method Used



Ref Lvl 112 dB/V
Marker 4 [T2] 47.43 dB/V
2.38640281 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 20 dB
Unit dB/V

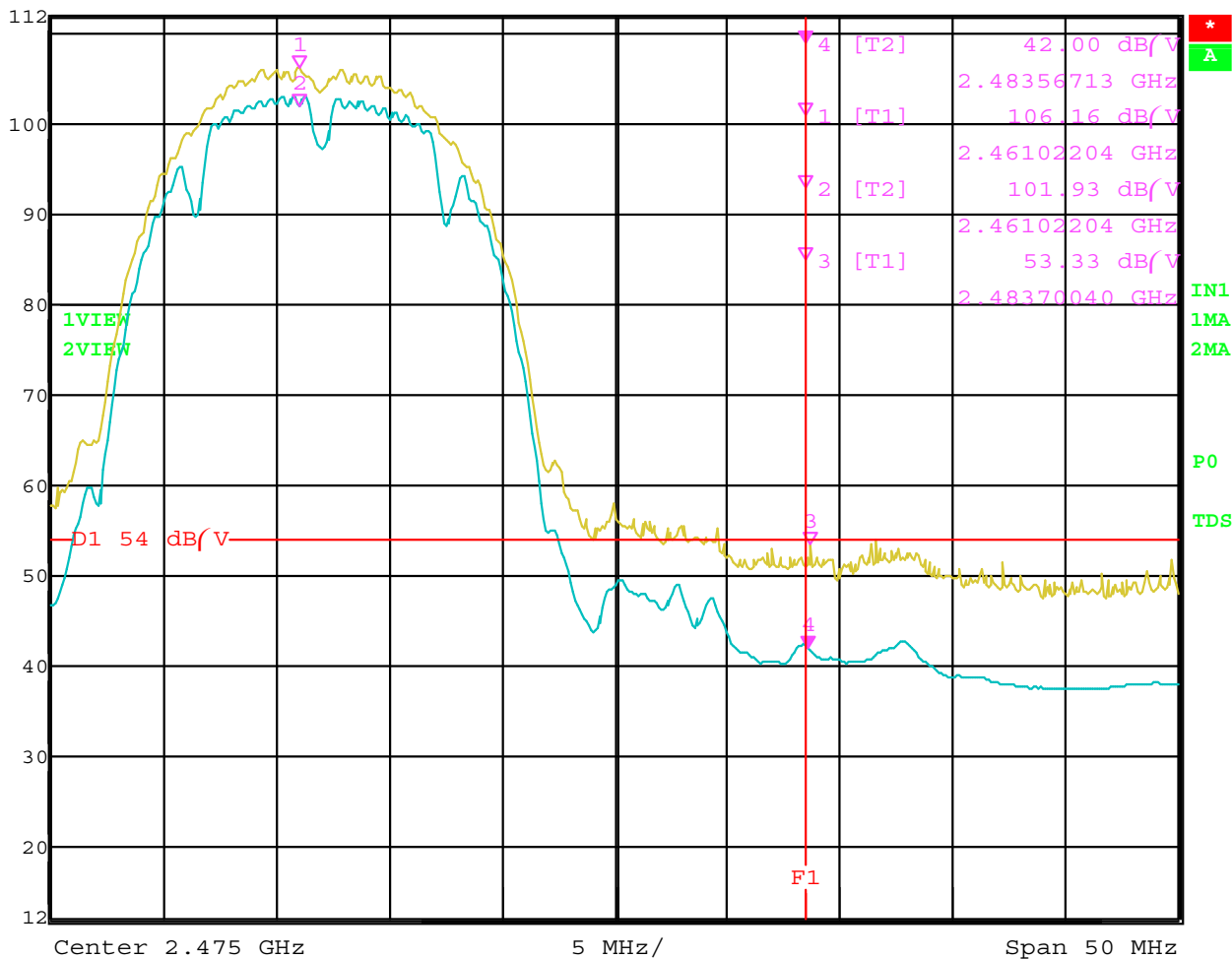


Date: 16.MAY.2006 16:23:23

Band Edge – Channel 1 – 802.11 b Mode – Vertical Polarization – Omni Antenna – Z-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 42.00 dB/V
2.48356713 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 20 dB
Unit dB/V

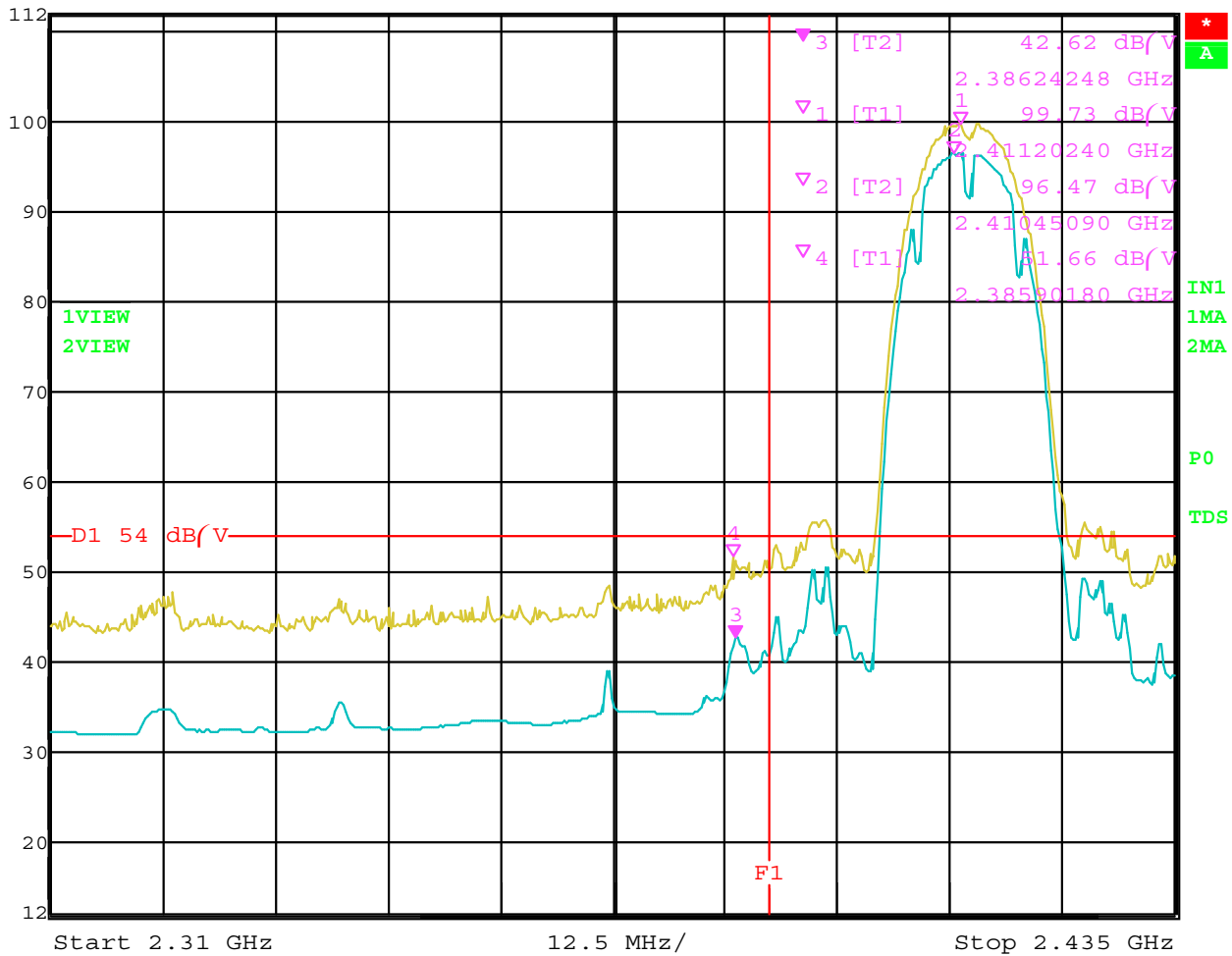


Date: 16.MAY.2006 16:29:36

Band Edge – Channel 11 – 802.11 b Mode – Vertical Polarization – Omni Antenna – Z-Axis (Worst Case)



Marker 3 [T2] RBW 1 MHz RF Att 20 dB
Ref Lvl 42.62 dB/V VBW 10 Hz
112 dB/V 2.38624248 GHz SWT 32 s Unit dB/V

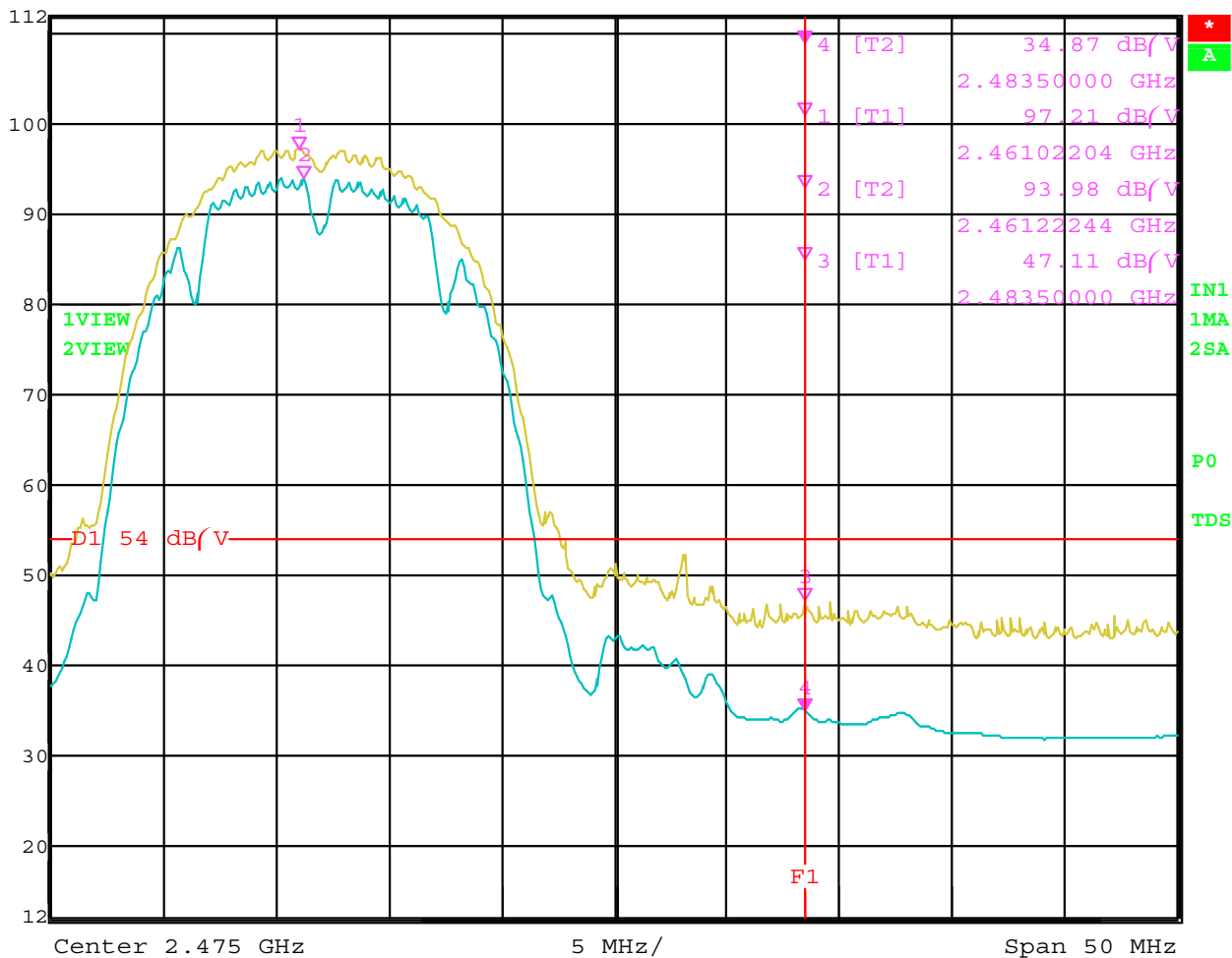


Date: 16.MAY.2006 16:03:43

Band Edge – Channel 1 – 802.11 b Mode – Horizontal Polarization – Omni Antenna – Z-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 34.87 dB/V
2.48350000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 20 dB
Unit dB/V



Date: 16.MAY.2006 16:07:52

Band Edge – Channel 11 – 802.11 b Mode – Horizontal Polarization – Omni Antenna – Z-Axis (Worst Case)

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/16/06

Lab: B

Tested By: Kyle Fujimoto

Worst Case - Z-axis for EUT itself**Transmit Mode - 802.11 g**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	107.28	V	--	--	Peak	1.26	225	Fundamental of Low Channel
2412	97.7	V	--	--	Avg	1.26	225	@ 3 meters - 15 dBm - Plot 4
2390	68.31	V	74	-5.69	Peak	1.26	225	No Marker Delta Method
2390	49.54	V	54	-4.46	Avg	1.26	225	Method Used
2437	108.72	V	--	--	Peak	1.64	225	Fundamental of Middle Channel
2437	98.92	V	--	--	Avg	1.64	225	@ 3 meters
2462	105.79	V	--	--	Peak	1.25	225	Fundamental of High Channel
2462	96.3	V	--	--	Avg	1.25	225	@ 3 meters - 15 dBm - Plot 3
2483.5	62.19	V	74	-11.81	Peak	1.25	225	No Marker Delta Method
2483.5	43.74	V	54	-10.26	Avg	1.25	225	Method Used

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S141AH-2450 Antenna

Date: 05/16/06

Lab: B

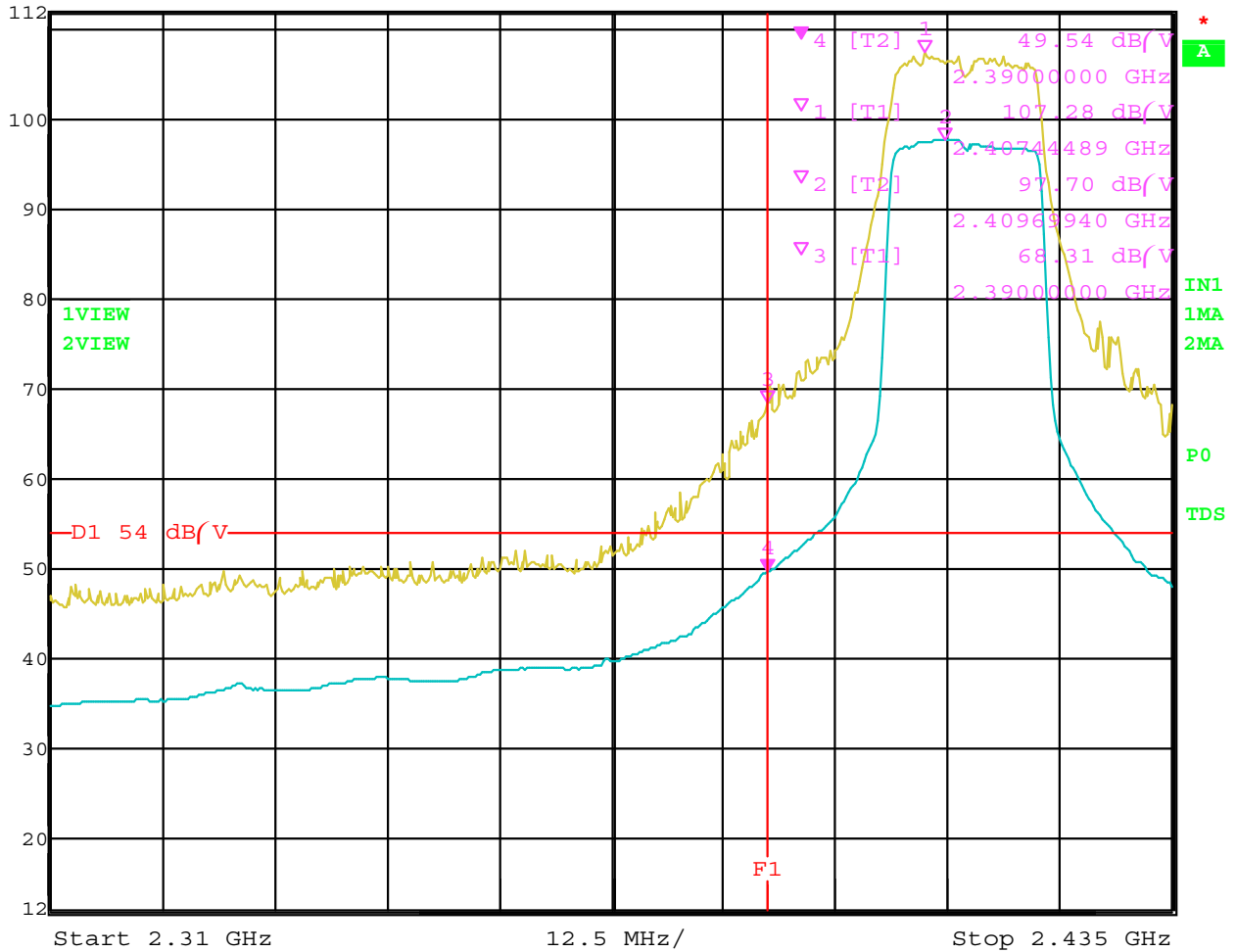
Tested By: Kyle Fujimoto

Worst Case - Z-axis for EUT itself**Transmit Mode - 802.11 g**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	98.11	H	--	--	Peak	1.76	225	Fundamental of Low Channel
2412	88.92	H	--	--	Avg	1.76	225	@ 3 meters
2390	60.12	H	74	-13.88	Peak	1.76	225	No Marker Delta Method
2390	41.33	H	54	-12.67	Avg	1.76	225	Method Used
2437	101.06	H	--	--	Peak	3.18	225	Fundamental of Middle Channel
2437	97.27	H	--	--	Avg	3.18	225	@ 3 meters
2462	99.32	H	--	--	Peak	2.4	225	Fundamental of High Channel
2462	89.49	H	--	--	Avg	2.4	225	@ 3 meters
2483.5	59.02	H	74	-14.98	Peak	2.4	225	No Marker Delta Method
2483.5	40.38	H	54	-13.62	Avg	2.4	225	Method Used



Ref Lvl 112 dB/V
Marker 4 [T2] 49.54 dB/V
2.39000000 GHz
RBW 1 MHz RF Att 20 dB
VBW 10 Hz
SWT 32 s Unit dB/V

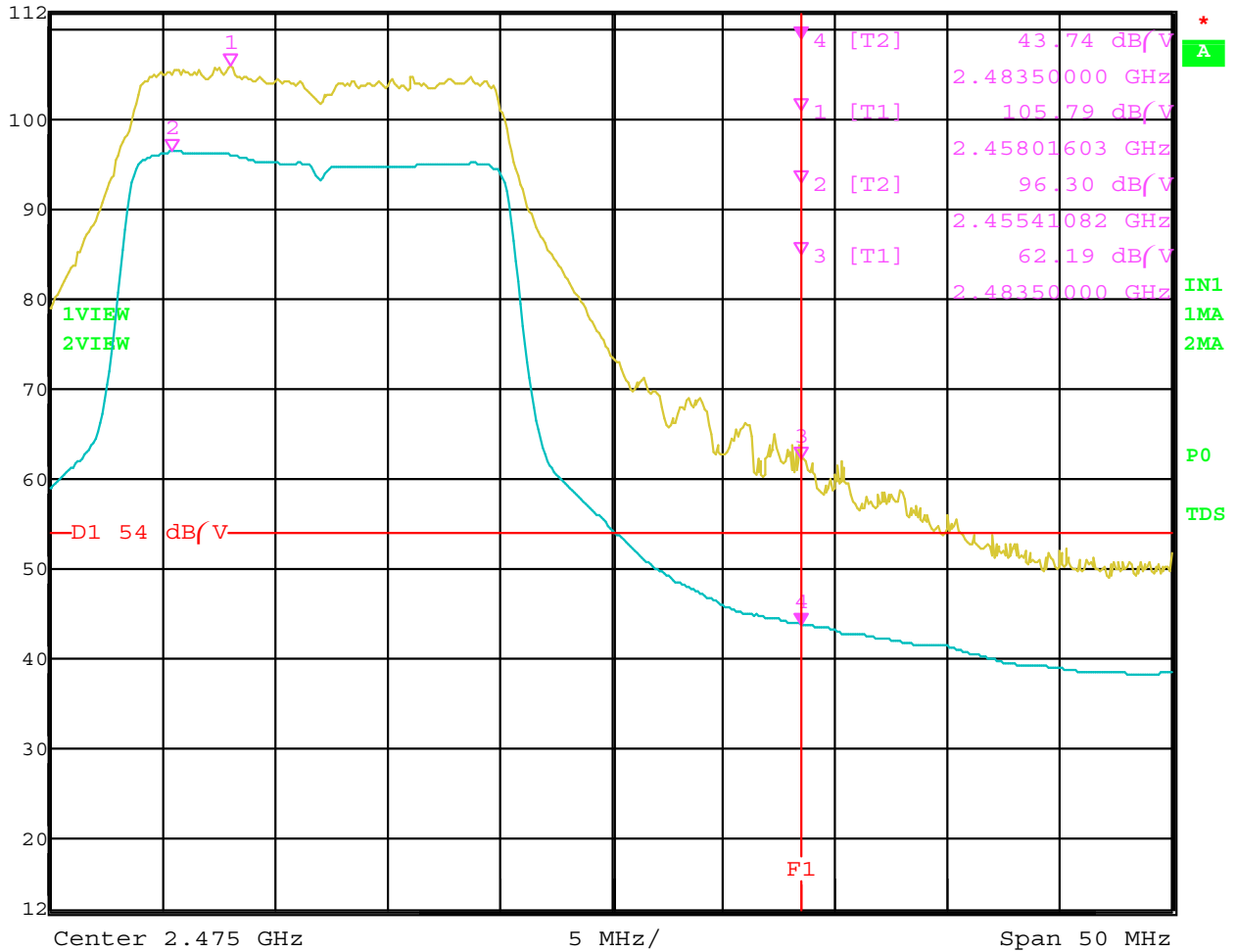


Date: 16.MAY.2006 16:46:21

Band Edge – Channel 1 – 802.11 g Mode – Vertical Polarization – Omni Antenna – Z-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 43.74 dB/V
2.48350000 GHz
RBW 1 MHz RF Att 20 dB
VBW 10 Hz
SWT 12.5 s Unit dB/V

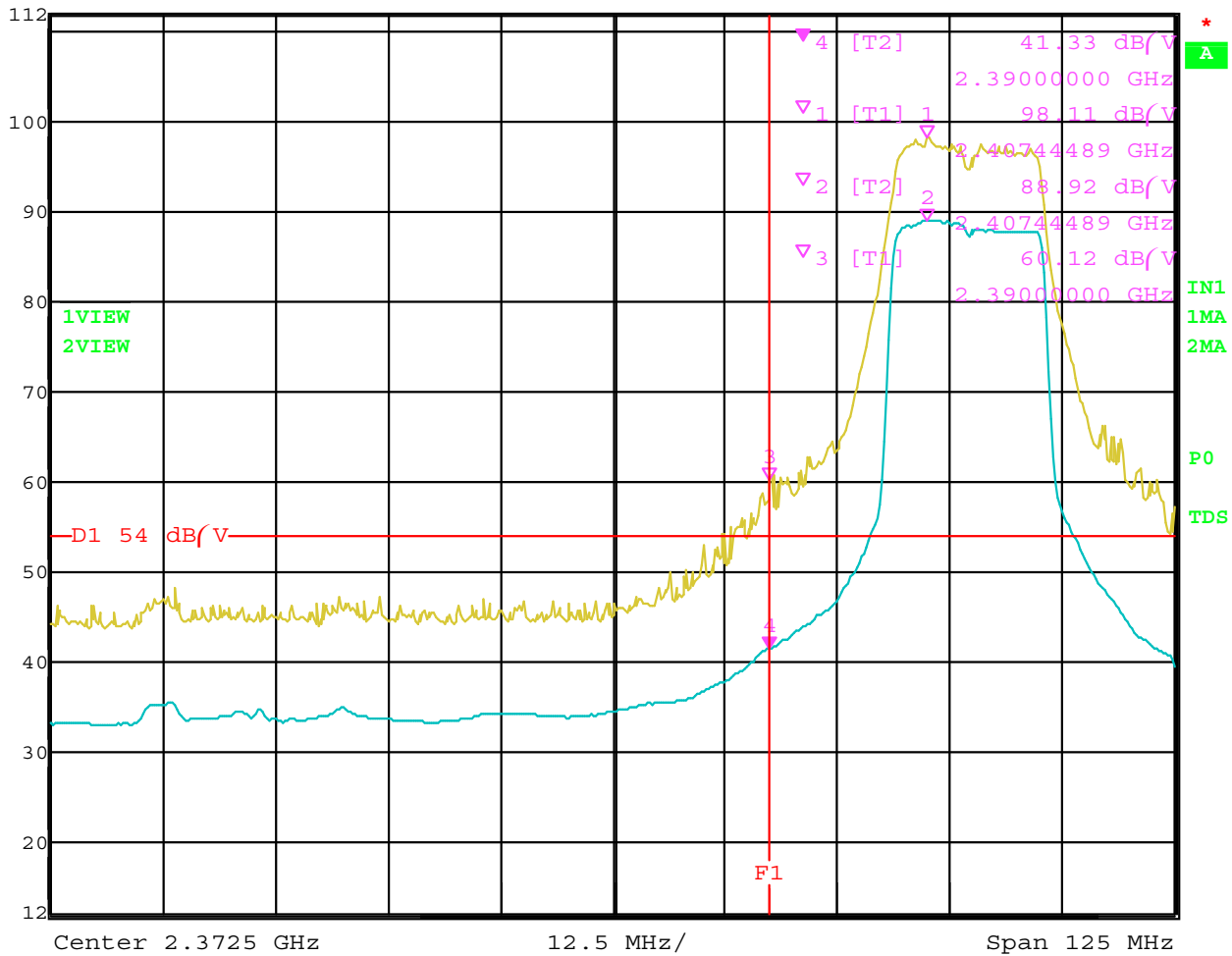


Date: 16.MAY.2006 16:38:05

Band Edge – Channel 11 – 802.11 g Mode – Vertical Polarization – Omni Antenna – Z-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 41.33 dB/V
2.39000000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 20 dB
Unit dB/V

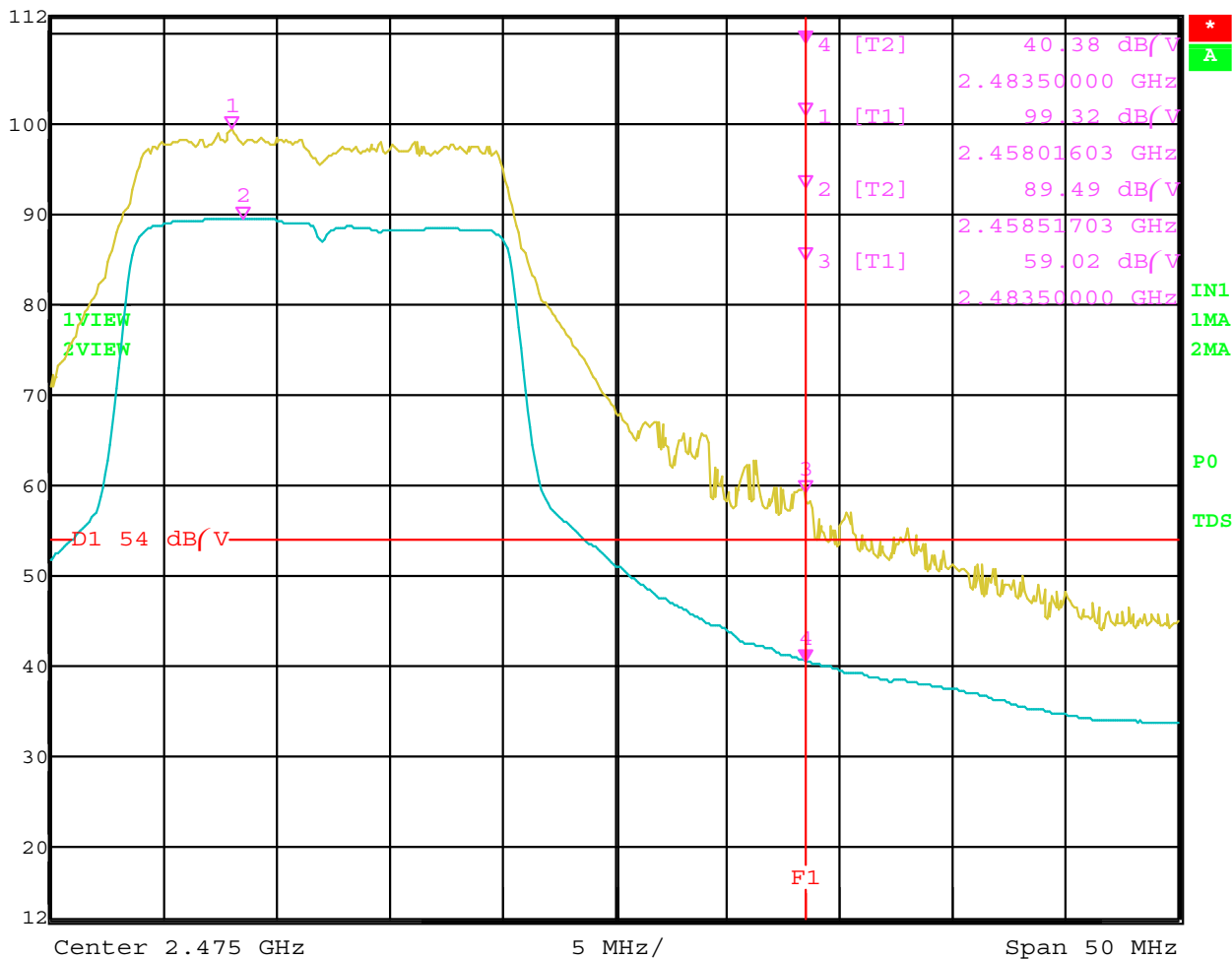


Date: 16.MAY.2006 16:52:20

Band Edge – Channel 1 – 802.11 g Mode – Horizontal Polarization – Omni Antenna – Z-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 40.38 dB/V
2.48350000 GHz
RBW 1 MHz
RF Att 20 dB
VBW 10 Hz
SWT 12.5 s
Unit dB/V



Date: 16.MAY.2006 17:07:29

Band Edge – Channel 11 – 802.11 g Mode – Horizontal Polarization – Omni Antenna – Z-Axis (Worst Case)

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

Worst Case - Y-axis for EUT itself**Transmit Mode - 802.11 b**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	108.28	V	--	--	Peak	1.17	315	Fundamental of Low Channel
2412	104.77	V	--	--	Avg	1.17	315	@ 3 meters
2371.96	56.6	V	74	-17.4	Peak	1.17	315	No Marker Delta Method
2371.87	46.85	V	54	-7.15	Avg	1.17	315	Method Used
2437	108.78	V	--	--	Peak	1.39	315	Fundamental of Middle Channel
2437	104.95	V	--	--	Avg	1.39	315	@ 3 meters
2462	106.34	V	--	--	Peak	1.37	315	Fundamental of High Channel
2462	102.85	V	--	--	Avg	1.37	315	@ 3 meters
2485.17	56.37	V	74	-17.63	Peak	1.37	315	No Marker Delta Method
2487.77	43.21	V	54	-10.79	Avg	1.37	315	Method Used

FCC 15.247

Quatech, Inc.

Date: 05/09/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

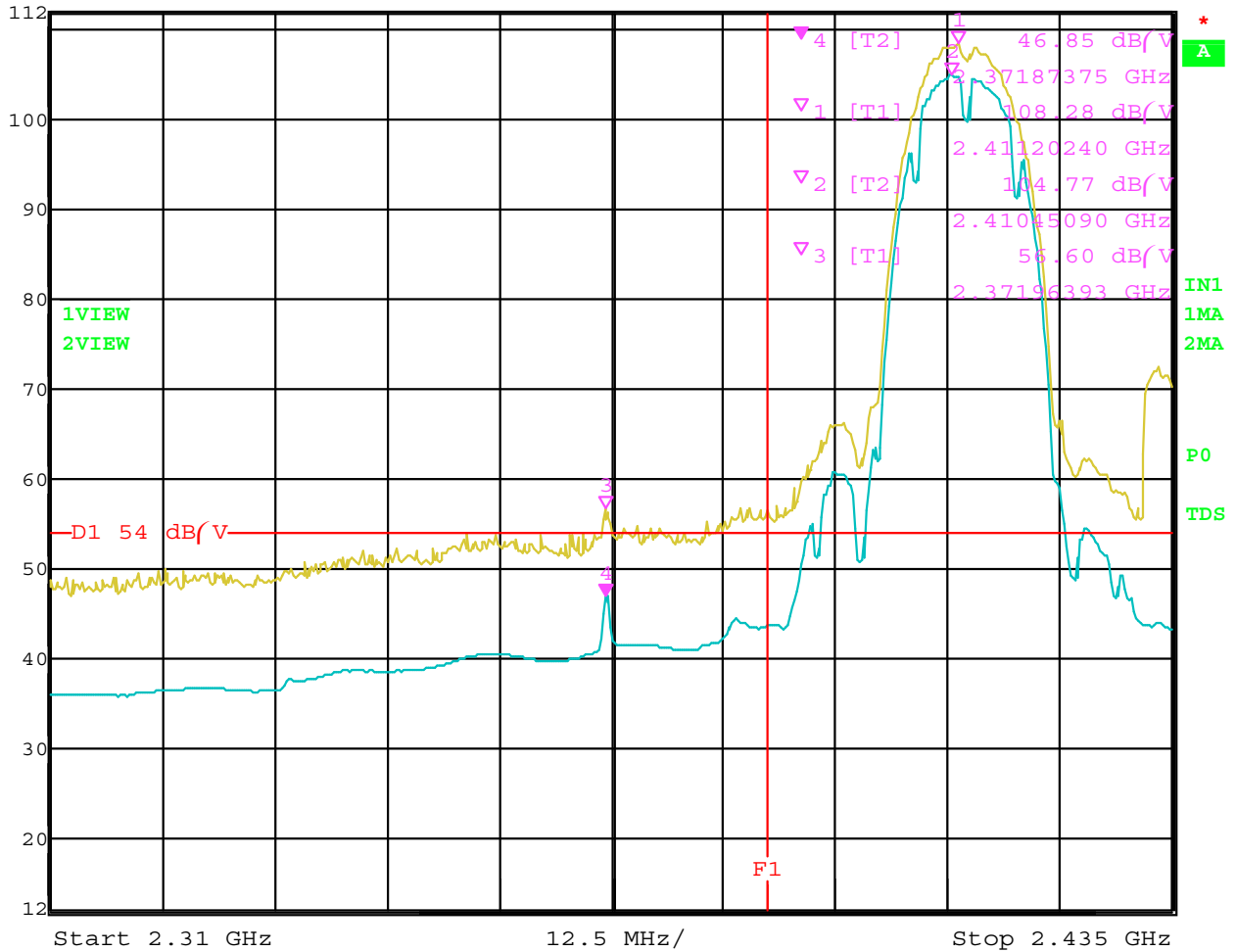
Configuration: With P/N: S151M2-L-2450S Antenna

Worst Case - Y-axis for EUT itself**Transmit Mode - 802.11 b**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	94.38	H	--	--	Peak	1.61	315	Fundamental of Low Channel
2412	90.87	H	--	--	Avg	1.61	315	@ 3 meters
2390	45.14	H	74	-28.86	Peak	1.61	315	No Marker Delta Method
2390	32.59	H	54	-21.41	Avg	1.61	315	Method Used
2437	96.39	H	--	--	Peak	1.64	315	Fundamental of Middle Channel
2437	92.96	H	--	--	Avg	1.64	315	@ 3 meters
2462	93.28	H	--	--	Peak	1.57	315	Fundamental of High Channel
2462	89.51	H	--	--	Avg	1.57	315	@ 3 meters
2483.5	44.11	H	74	-29.89	Peak	1.57	315	No Marker Delta Method
2483.5	32.21	H	54	-21.79	Avg	1.57	315	Method Used



Ref Lvl 112 dB/V
Marker 4 [T2] 46.85 dB/V
2.37187375 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 20 dB
Unit dB/V

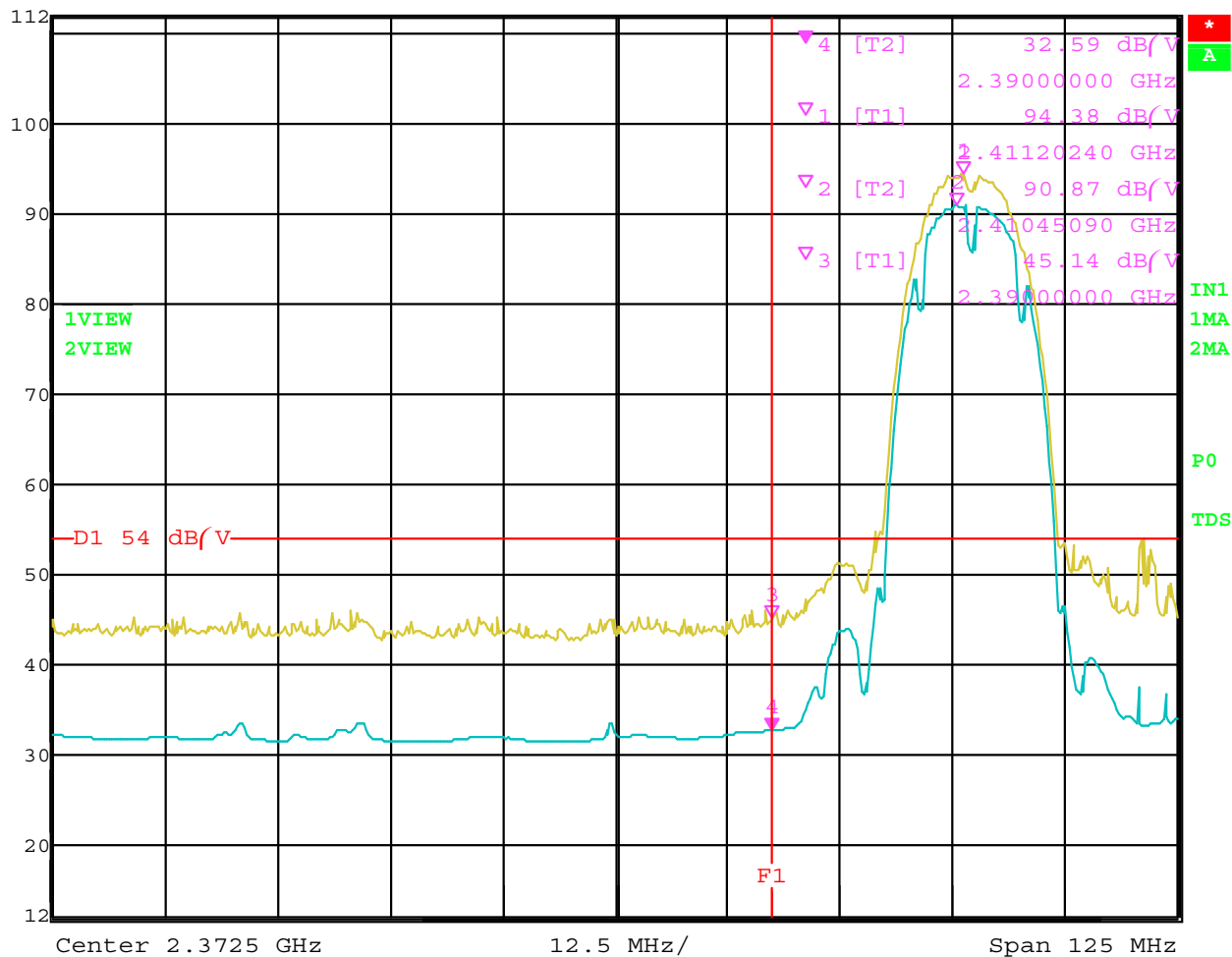


Date: 9.MAY.2006 08:42:12

Band Edge – Channel 1 – 802.11 b Mode – Vertical Polarization – Base Mount Antenna – Y-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 32.59 dB/V
2.39000000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 20 dB
Unit dB/V

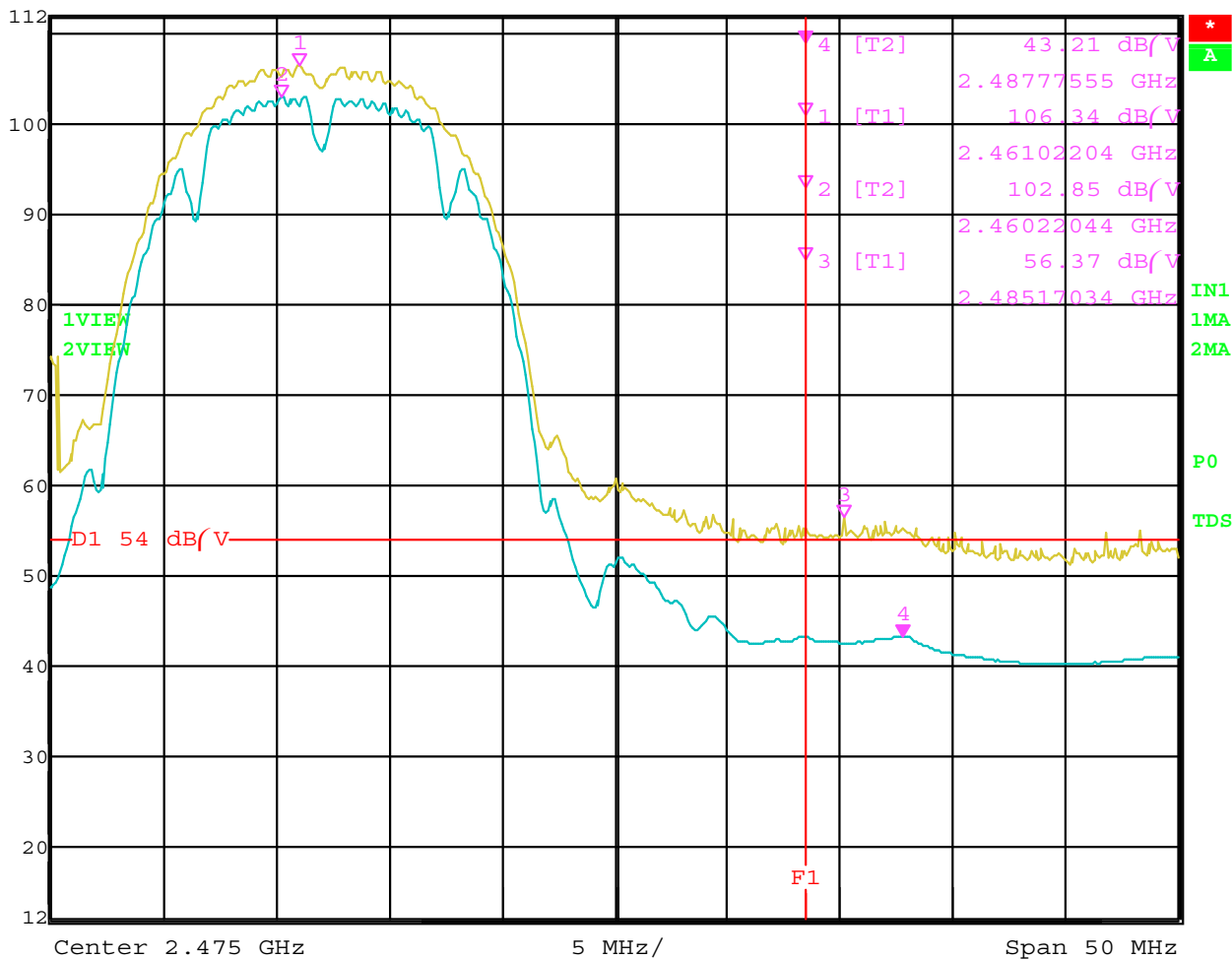


Date: 9.MAY.2006 09:29:56

Band Edge – Channel 1 – 802.11 b Mode – Horizontal Polarization – Base Mount Antenna – Y-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 43.21 dB/V
2.48777555 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 20 dB
Unit dB/V

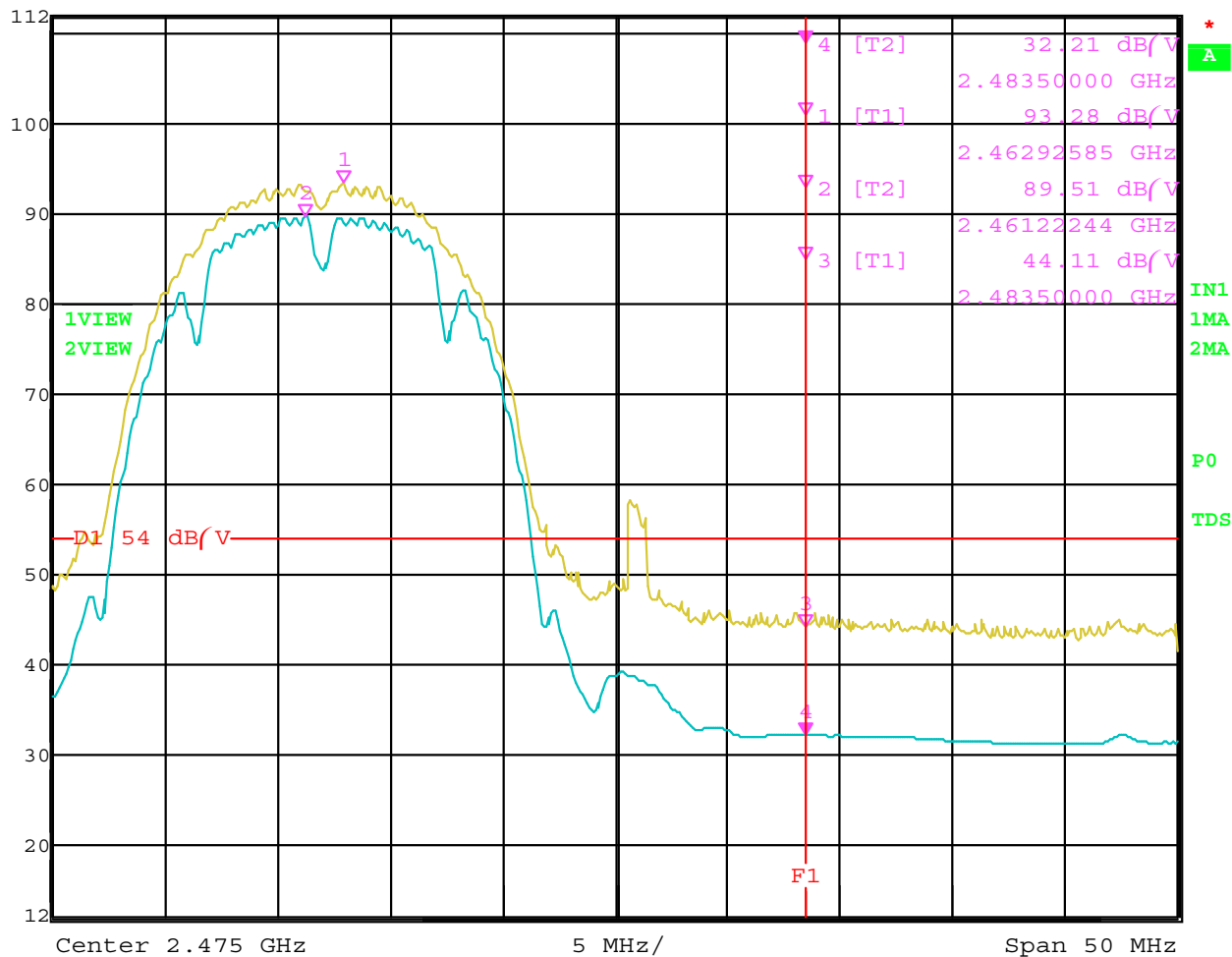


Date: 9.MAY.2006 08:47:21

Band Edge – Channel 11 – 802.11 b Mode – Vertical Polarization – Base Mount Antenna – Y-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 32.21 dB/V
2.48350000 GHz
RBW 1 MHz RF Att 20 dB
VBW 10 Hz
SWT 12.5 s Unit dB/V



Date: 9.MAY.2006 09:40:02

Band Edge – Channel 11 – 802.11 b Mode – Horizontal Polarization – Base Mount Antenna – Y-Axis (Worst Case)

FCC 15.247

Quatech, Inc.

Date: 05/05/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151M2-L-2450S Antenna

Worst Case - Y-axis for EUT itself**Transmit Mode - 802.11 g**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	106.61	V	--	--	Peak	1.68	315	Fundamental of Low Channel
2412	96.41	V	--	--	Avg	1.68	315	@ 3 meters - 15 dBm Plot 7
2390	71.44	V	74	-2.56	Peak	1.68	315	No Marker Delta Method
2390	51.94	V	54	-2.06	Avg	1.68	315	Method Used
2437	107.2	V	--	--	Peak	1.95	180	Fundamental of Middle Channel
2437	97.73	V	--	--	Avg	1.95	180	@ 3 meters
2462	106.52	V	--	--	Peak	1.64	0	Fundamental of High Channel
2462	97.32	V	--	--	Avg	1.64	0	@ 3 meters 15 dBm - Plot 8
2483.5	68.73	V	74	-5.27	Peak	1.64	0	No Marker Delta Method
2483.5	51.85	V	54	-2.15	Avg	1.64	0	Method Used

FCC 15.247

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101

Configuration: With P/N: S151M2-L-2450S Antenna

Date: 05/09/06

Lab: B

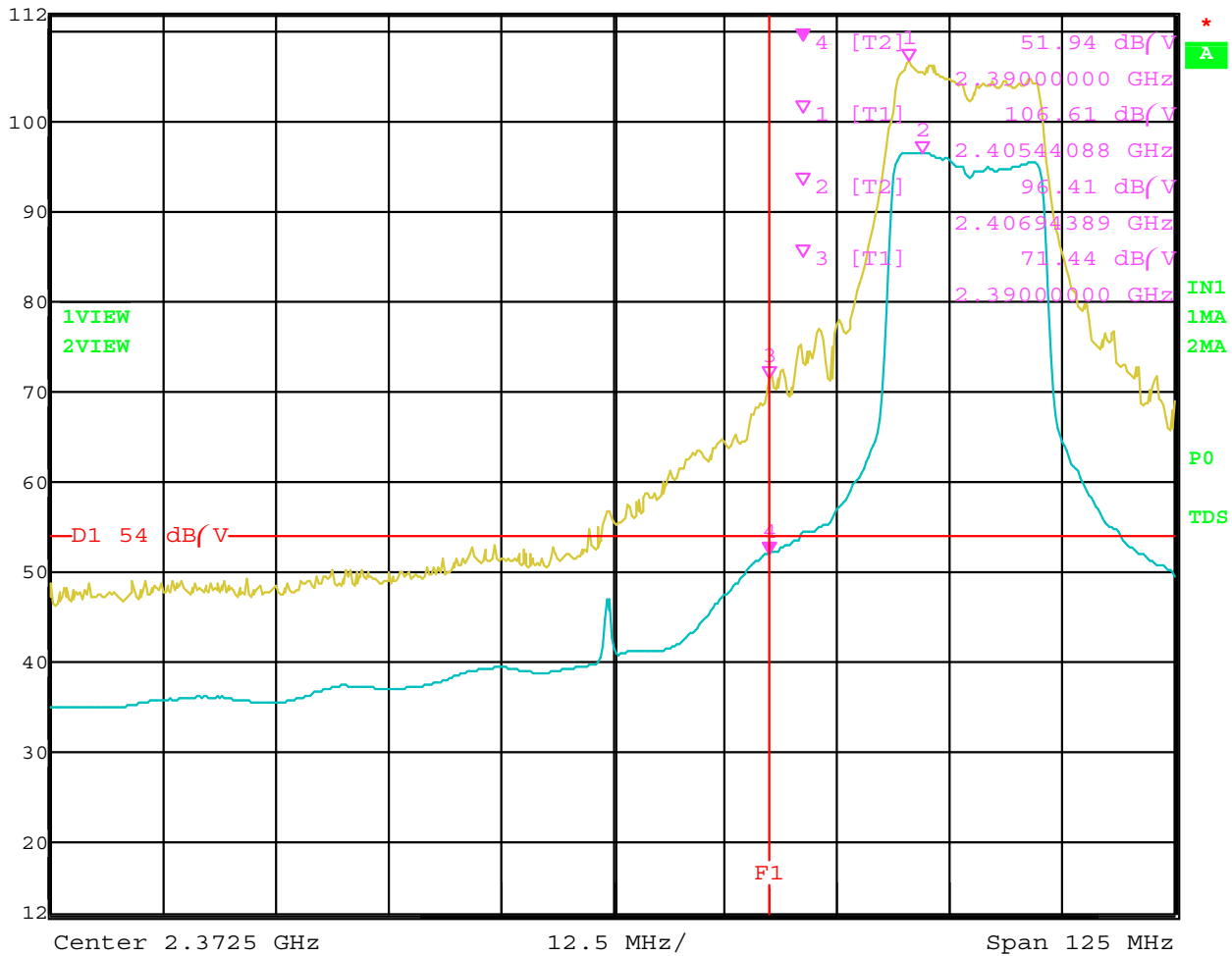
Tested By: Kyle Fujimoto

Worst Case - Y-axis for EUT itself**Transmit Mode - 802.11 g**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	94.82	H	--	--	Peak	1.09	225	Fundamental of Low Channel
2412	85.08	H	--	--	Avg	1.09	225	@ 3 meters
2390	54.6	H	74	-19.4	Peak	1.09	225	No Marker Delta Method
2390	36.55	H	54	-17.45	Avg	1.09	225	Method Used
2437	94.48	H	--	--	Peak	1.43	225	Fundamental of Middle Channel
2437	84.73	H	--	--	Avg	1.43	225	@ 3 meters
2462	93.91	H	--	--	Peak	1.08	225	Fundamental of High Channel
2462	83.94	H	--	--	Avg	1.08	225	@ 3 meters
2483.5	50.11	H	74	-23.89	Peak	1.08	225	No Marker Delta Method
2483.5	34.47	H	54	-19.53	Avg	1.08	225	Method Used



Ref Lvl 112 dB/V
Marker 4 [T2] 51.94 dB/V
2.39000000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 20 dB
Unit dB/V

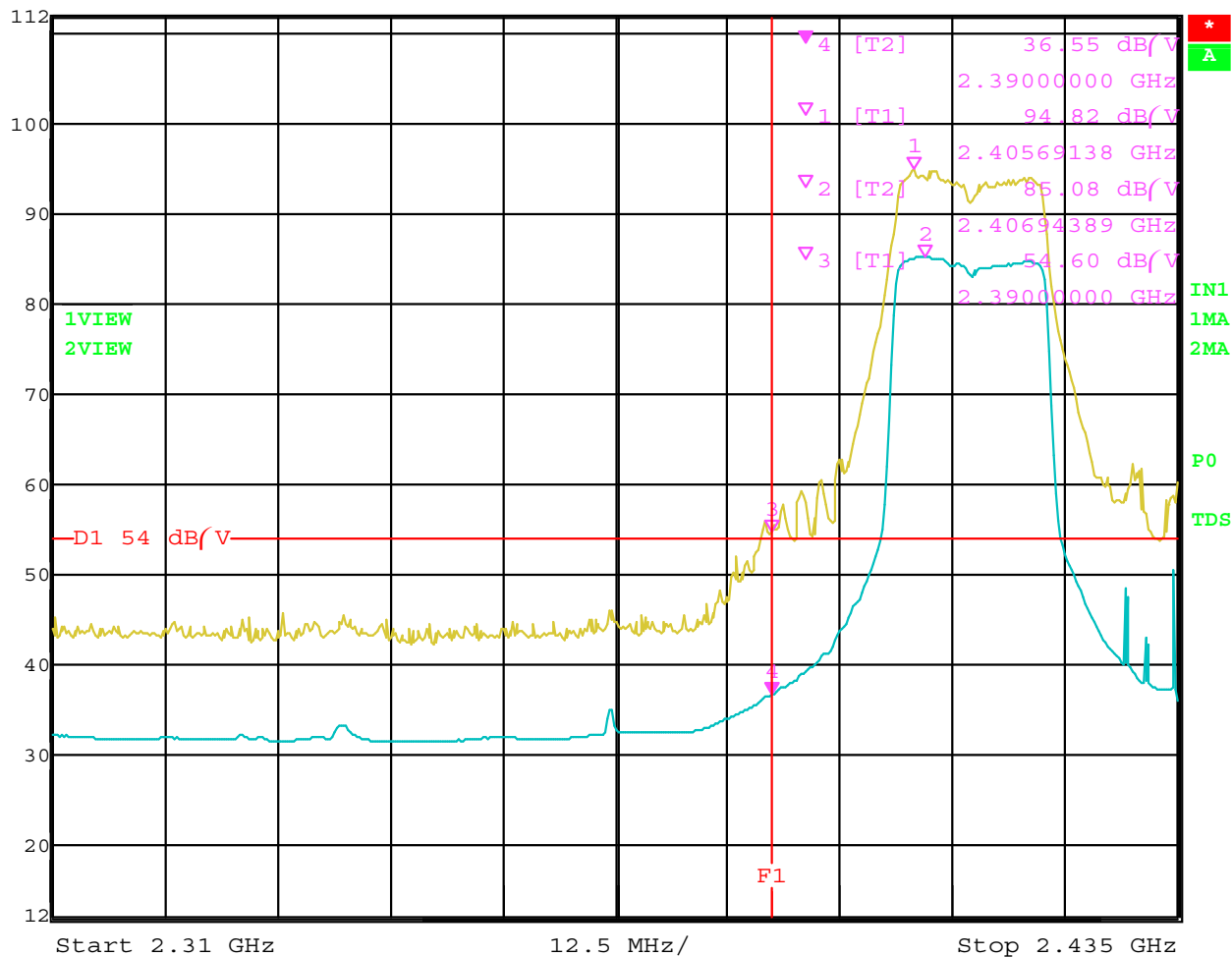


Date: 5.MAY.2006 14:26:08

Band Edge – Channel 1 – 802.11 g Mode – Vertical Polarization – Base Mount Antenna – Y-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 36.55 dB/V
2.39000000 GHz
RBW 1 MHz RF Att 20 dB
VBW 10 Hz
SWT 32 s Unit dB/V

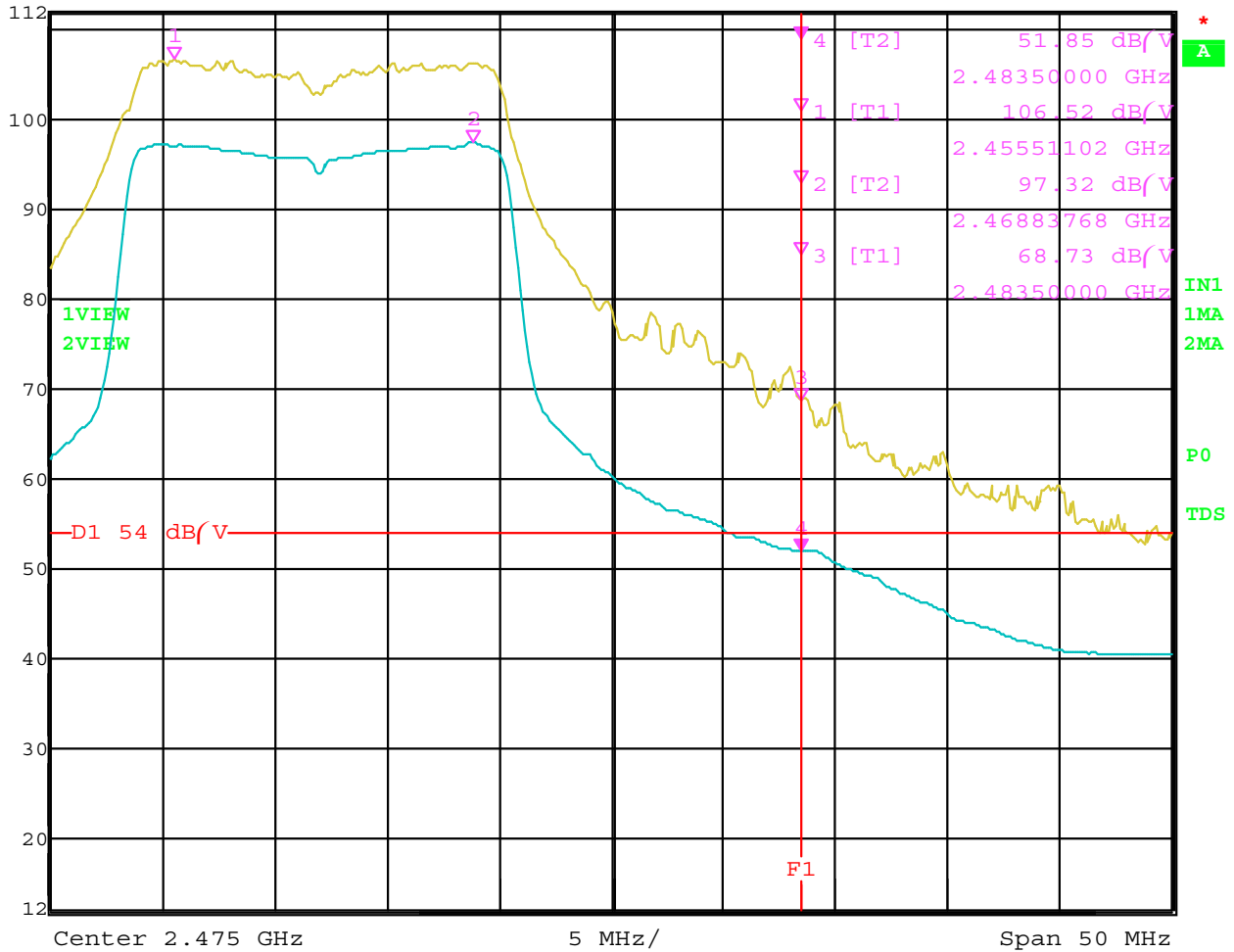


Date: 9.MAY.2006 09:16:55

Band Edge – Channel 1 – 802.11 g Mode – Horizontal Polarization – Base Mount Antenna – Y-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 51.85 dB/V
2.48350000 GHz
RBW 1 MHz RF Att 20 dB
VBW 10 Hz
SWT 12.5 s Unit dB/V

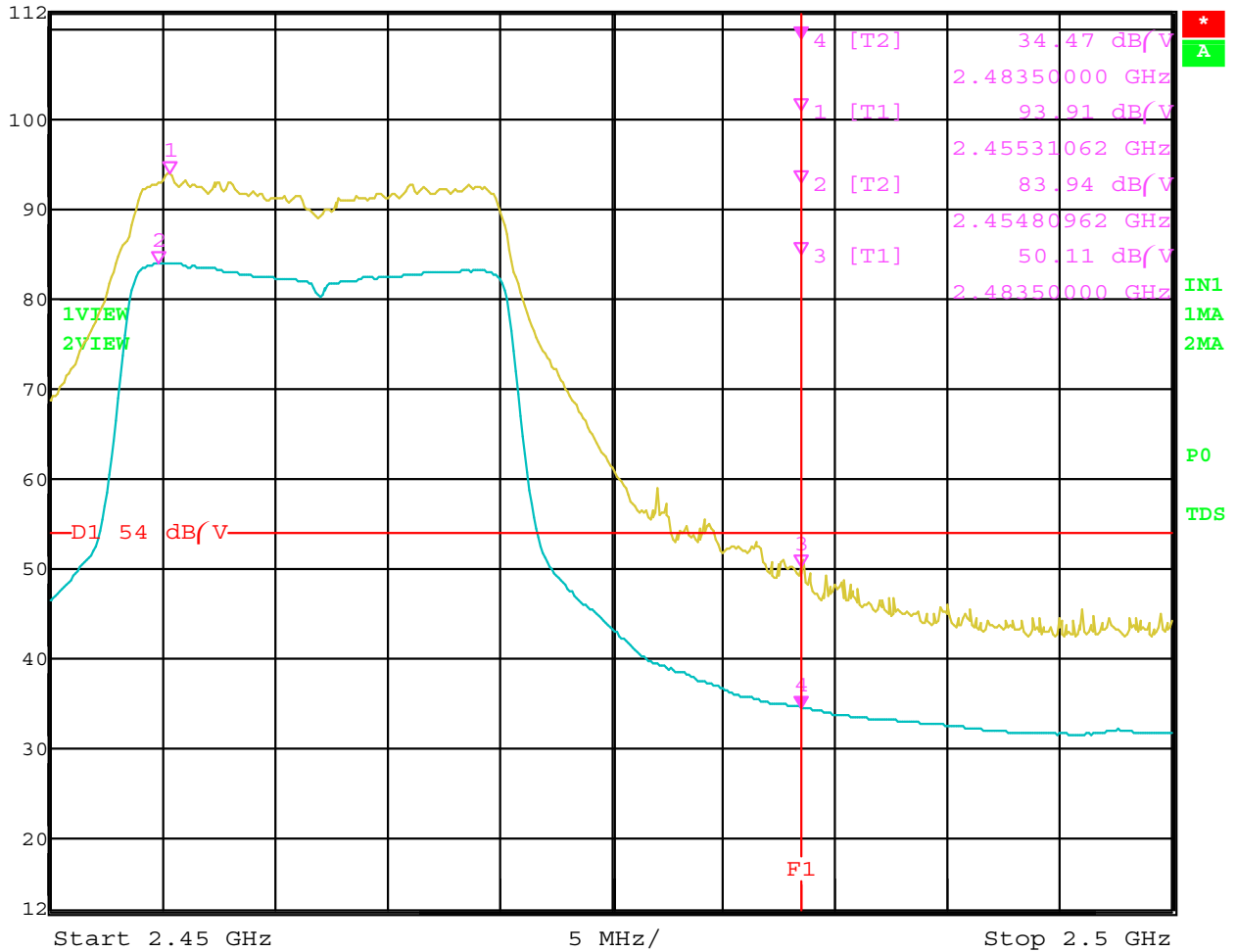


Date: 5.MAY.2006 14:30:43

Band Edge – Channel 11 – 802.11 g Mode – Vertical Polarization – Base Mount Antenna – Y-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 4 [T2] 34.47 dB/V
2.48350000 GHz
RBW 1 MHz RF Att 20 dB
VBW 10 Hz
SWT 12.5 s Unit dB/V



Date: 9.MAY.2006 09:08:56

Band Edge - Channel 11 - 802.11 g Mode - Horizontal Polarization - Base Mount Antenna - Y-Axis (Worst Case)

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

Worst Case - Z-axis for EUT itself**Transmit Mode - 802.11 b**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	108.89	V	--	--	Peak	2.42	135	Fundamental of Low Channel
2412	105.43	V	--	--	Avg	2.42	135	@ 3 Meters
2385.99	60.12	V	74	-13.88	Peak	2.42	135	No Marker Delta Method
2386.49	53.78	V	54	-0.22	Avg	2.42	135	Method Used
2437	109.47	V	--	--	Peak	2.43	135	Fundamental of Middle Channel
2437	105.73	V	--	--	Avg	2.43	135	@ 3 meters
2462	107.38	V	--	--	Peak	1.91	135	Fundamental of High Channel
2462	103.69	V	--	--	Avg	1.91	135	@ 3 Meters
2487.8	56.37	V	74	-17.63	Peak	1.91	135	No Marker Delta Method
2487.8	45.17	V	54	-8.83	Avg	1.91	135	Method Used

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

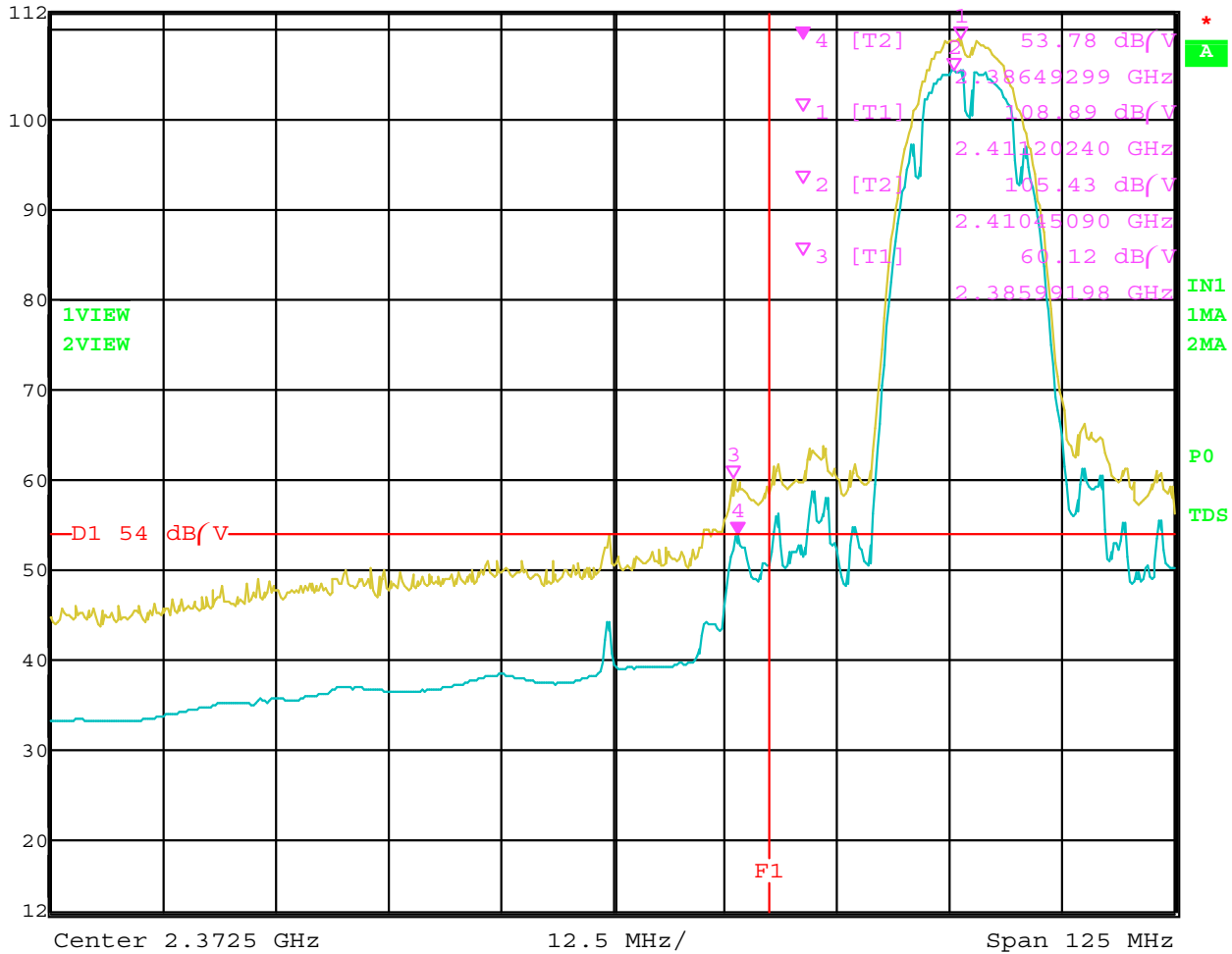
Configuration: With P/N: S151FL-L-PX-2450S Antenna

Worst Case - Z-axis for EUT itself**Transmit Mode - 802.11 b**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	102.44	H	--	--	Peak	2.23	135	Fundamental of Low Channel
2412	98.7	H	--	--	Avg	2.23	135	@ 3 meters
2386.24	53.41	H	74	-20.59	Peak	2.23	135	No Marker Delta Method
2386.49	45.39	H	54	-8.61	Avg	2.23	135	Method Used
2437	102.64	H	--	--	Peak	2.17	135	Fundamental of Middle Channel
2437	98.48	H	--	--	Avg	2.17	135	@ 3 meters
2462	99.68	H	--	--	Peak	2.22	135	Fundamental of High Channel
2462	96.25	H	--	--	Avg	2.22	135	@ 3 meters
2483.5	48.79	H	74	-25.21	Peak	2.22	135	No Marker Delta Method
2483.5	39.39	H	54	-14.61	Avg	2.22	135	Method Used



Ref Lvl 112 dB/V
Marker 4 [T2] 53.78 dB/V
2.38649299 GHz
RBW 1 MHz
RF Att 20 dB
VBW 10 Hz
SWT 32 s
Unit dB/V

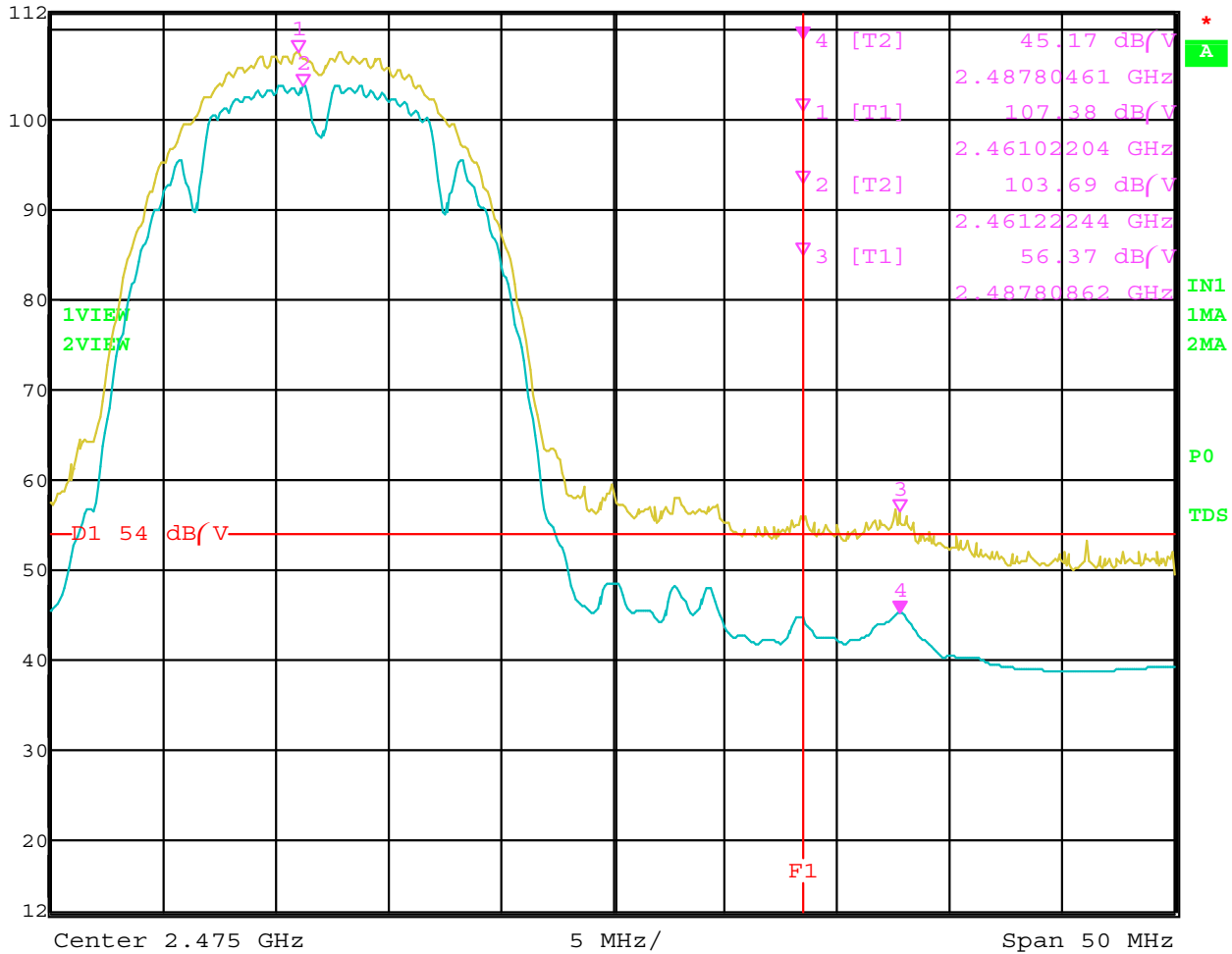


Date: 31.MAY.2006 15:05:54

Band Edge – Channel 1 – 802.11 b Mode – Vertical Polarization – Omni Antenna – Z-Axis (Worst Case)
5 dBi Version



Ref Lvl 112 dB/V
Marker 4 [T2] 45.17 dB/V
2.48780461 GHz
RBW 1 MHz RF Att 20 dB
VBW 10 Hz
SWT 12.5 s Unit dB/V

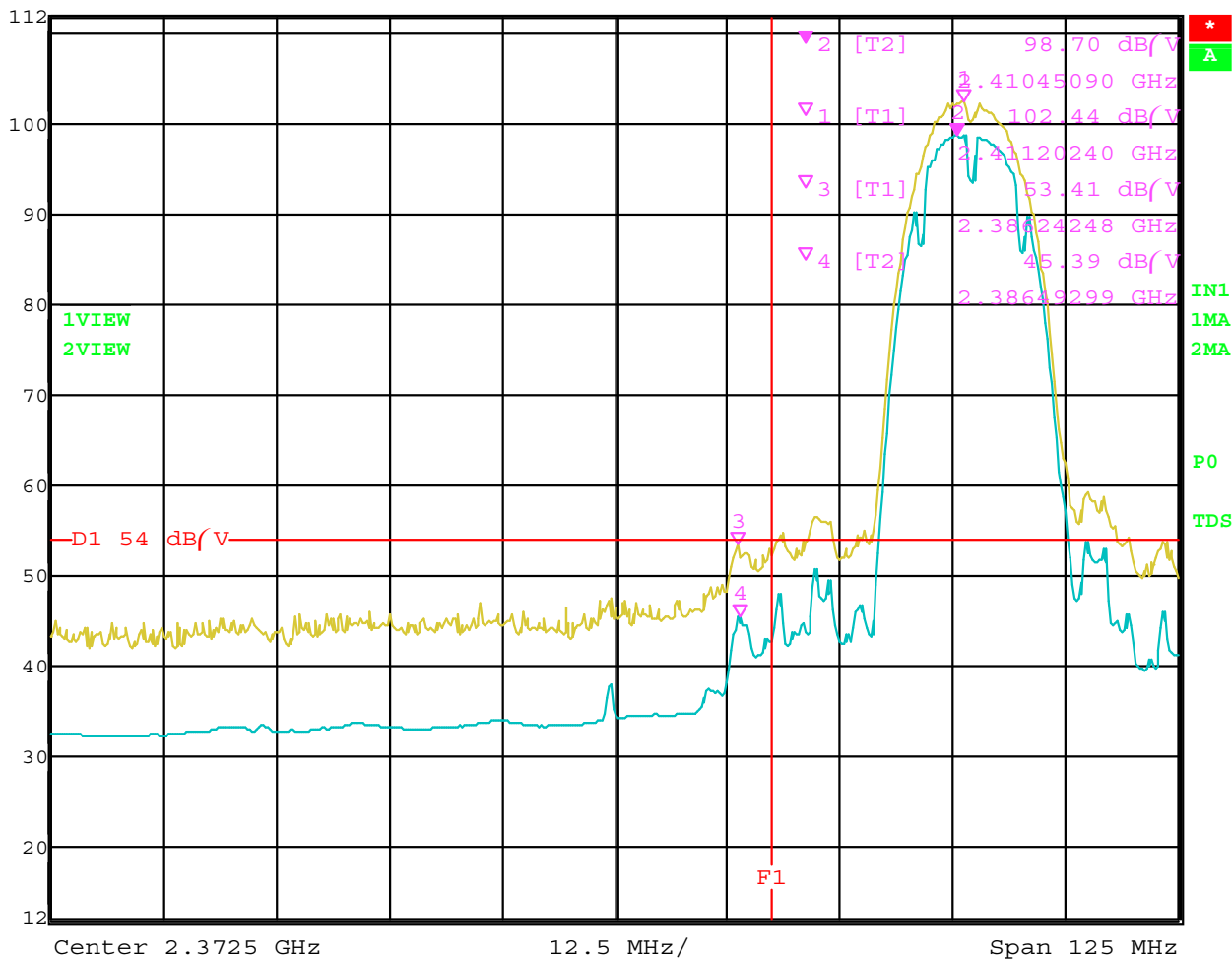


Date: 31.MAY.2006 15:15:34

Band Edge – Channel 11 – 802.11 b Mode – Vertical Polarization – Omni Antenna – Z-Axis (Worst Case)
5 dBi Version



Ref Lvl 112 dB/V
Marker 2 [T2] 98.70 dB/V
2.41045090 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 20 dB
Unit dB/V

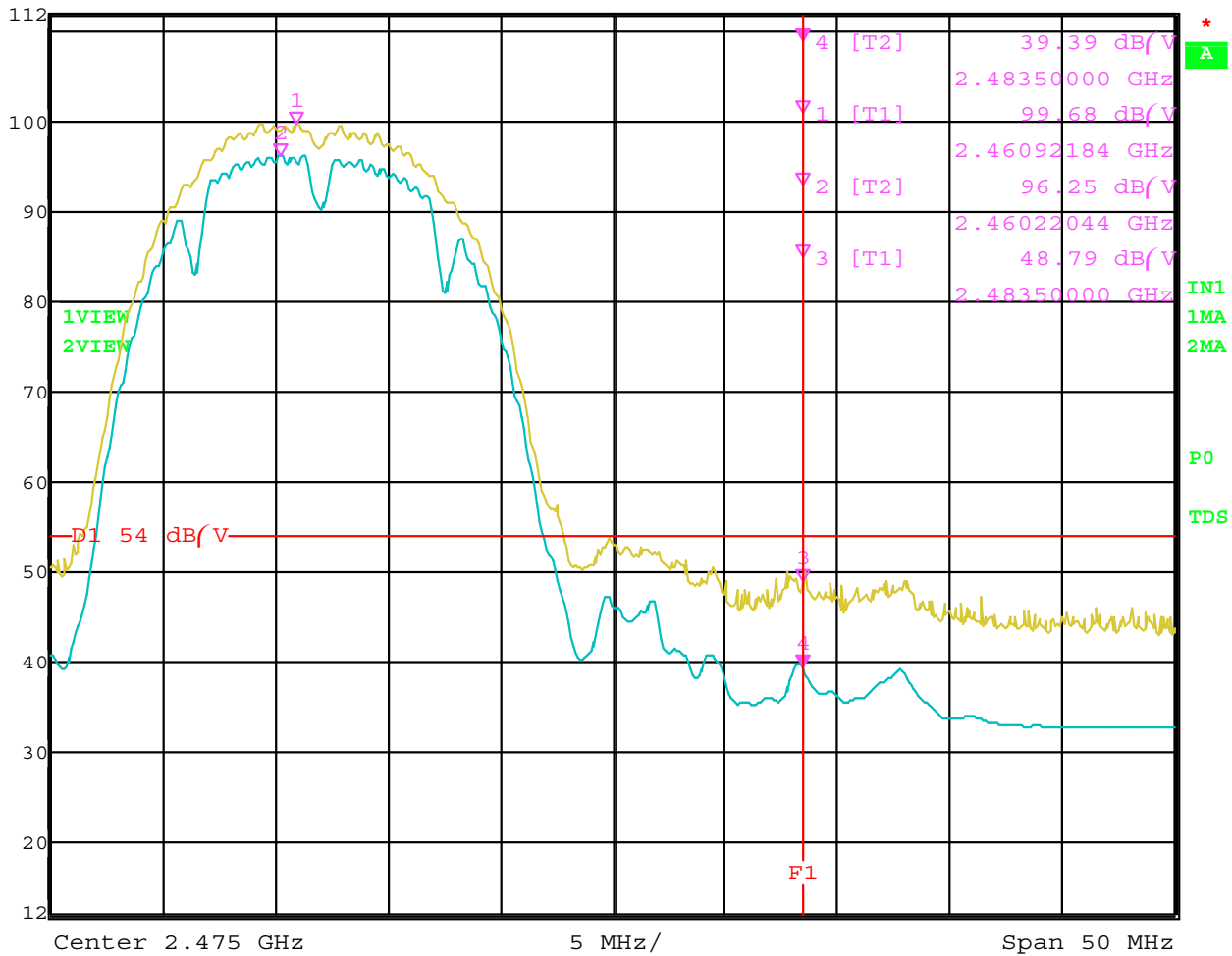


Date: 31.MAY.2006 15:00:37

Band Edge – Channel 1 – 802.11 b Mode – Horizontal Polarization – Omni Antenna – Z-Axis (Worst Case)
5 dBi Version



Ref Lvl 112 dB/V
Marker 4 [T2] 39.39 dB/V
2.48350000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 20 dB
Unit dB/V



Date: 31.MAY.2006 14:53:42

Band Edge – Channel 11 – 802.11 b Mode – Horizontal Polarization – Omni Antenna – Z-Axis (Worst Case)
5 dBi Version

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

Configuration: With P/N: S151FL-L-PX-2450S Antenna

Worst Case - Z-axis for EUT itself**Transmit Mode - 802.11 g**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	107.78	V	--	--	Peak	1.12	180	Fundamental of Low Channel
2412	97.92	V	--	--	Avg	1.12	180	@ 3 Meters
2390	68.04	V	74	-5.96	Peak	1.12	180	No Marker Delta Method
2390	52.7	V	54	-1.3	Avg	1.12	180	Method Used
2437	108.92	V	--	--	Peak	1.11	225	Fundamental of Middle Channel
2437	99.33	V	--	--	Avg	1.11	225	@ 3 meters
2462	105.53	V	--	--	Peak	1.45	180	Fundamental of High Channel
2462	96.01	V	--	--	Avg	1.45	180	@ 3 Meters
2483.5	65.31	V	74	-8.69	Peak	1.45	180	No Marker Delta Method
2483.5	46.09	V	54	-7.91	Avg	1.45	180	Method Used

FCC 15.247

Quatech, Inc.

Date: 05/31/06

Airborne Embedded Radio Module

Lab: B

Model: WLRG-RA-DP101

Tested By: Kyle Fujimoto

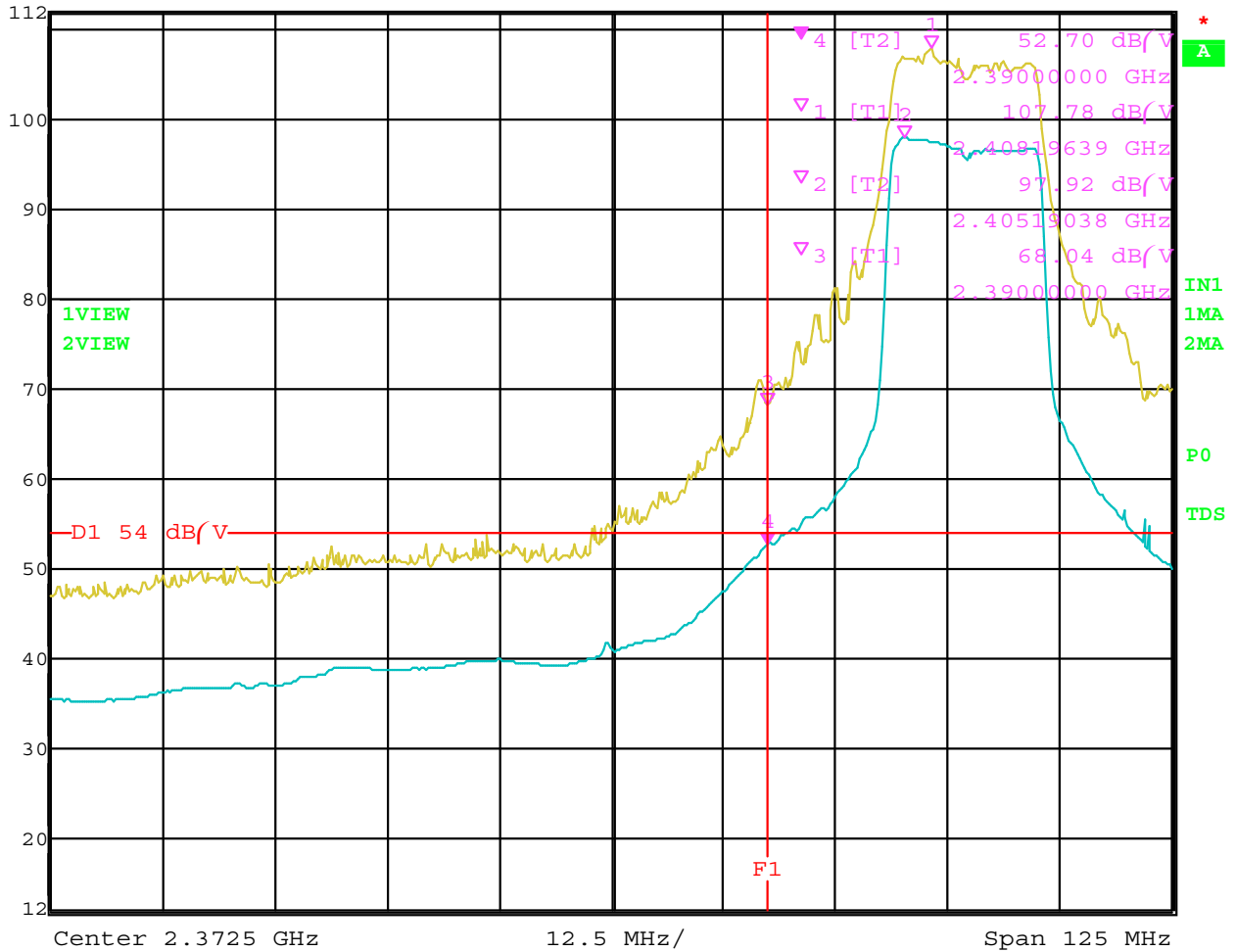
Configuration: With P/N: S151FL-L-PX-2450S Antenna

Worst Case - Z-axis for EUT itself**Transmit Mode - 802.11 g**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	100.52	H	--	--	Peak	2.25	135	Fundamental of Low Channel
2412	90.6	H	--	--	Avg	2.25	135	@ 3 meters
2390	60.88	H	74	-13.12	Peak	2.25	135	No Marker Delta Method
2390	45.04	H	54	-8.96	Avg	2.25	135	Method Used
2437	99.03	H	--	--	Peak	2.18	225	Fundamental of Middle Channel
2437	89.46	H	--	--	Avg	2.18	225	@ 3 meters
2462	98.6	H	--	--	Peak	2.18	135	Fundamental of High Channel
2462	88.67	H	--	--	Avg	2.18	135	@ 3 meters
2485	57.41	H	74	-16.59	Peak	2.18	135	No Marker Delta Method
2483.5	38.82	H	54	-15.18	Avg	2.18	135	Method Used



Ref Lvl 112 dB/V
Marker 4 [T2] 52.70 dB/V
2.39000000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 20 dB
Unit dB/V

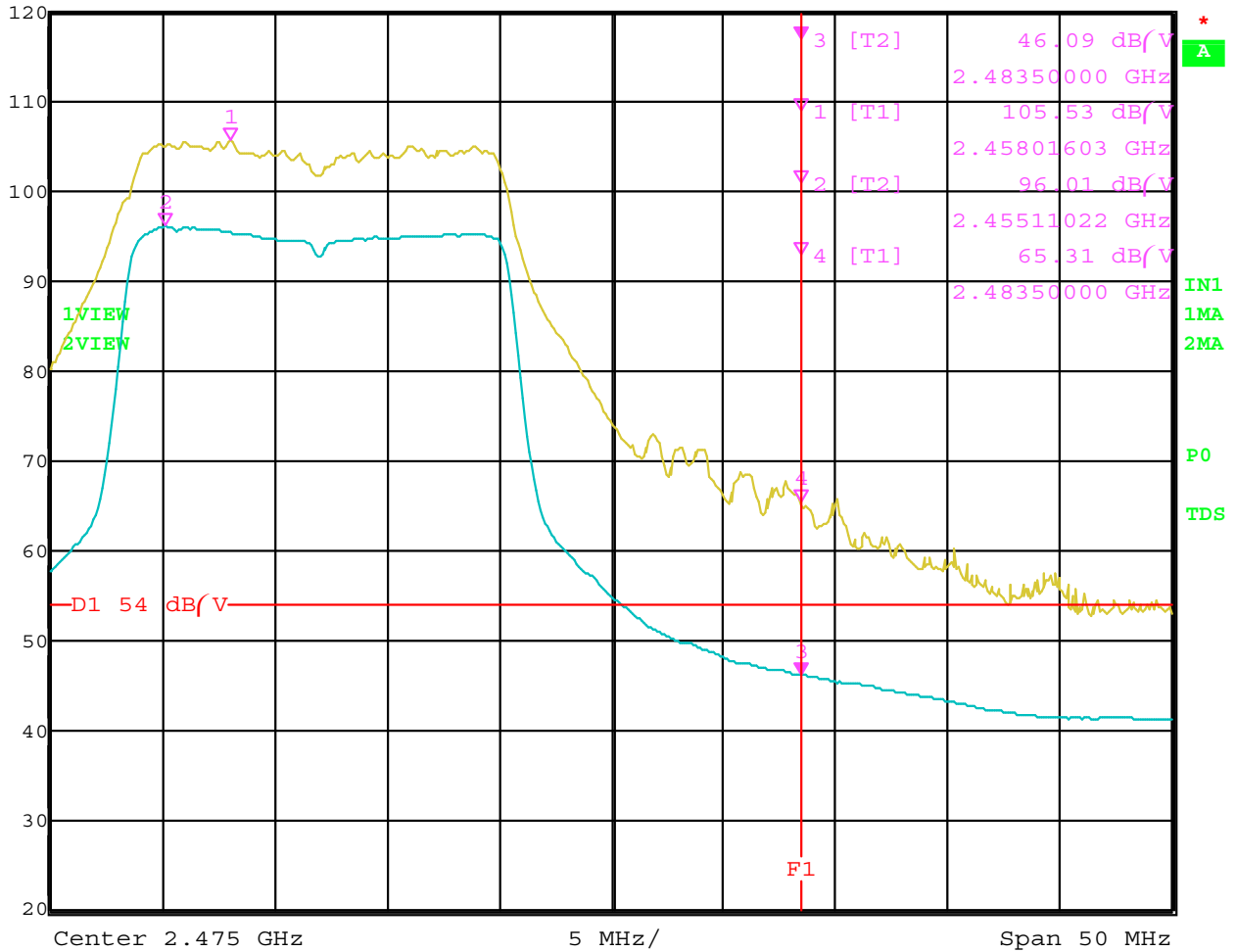


Date: 31.MAY.2006 14:26:09

Band Edge – Channel 1 – 802.11 g Mode – Vertical Polarization – Omni Antenna – Z-Axis (Worst Case)
5 dBi Version



Ref Lvl 120 dB/V
Marker 3 [T2] 46.09 dB/V
2.48350000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 30 dB
Unit dB/V

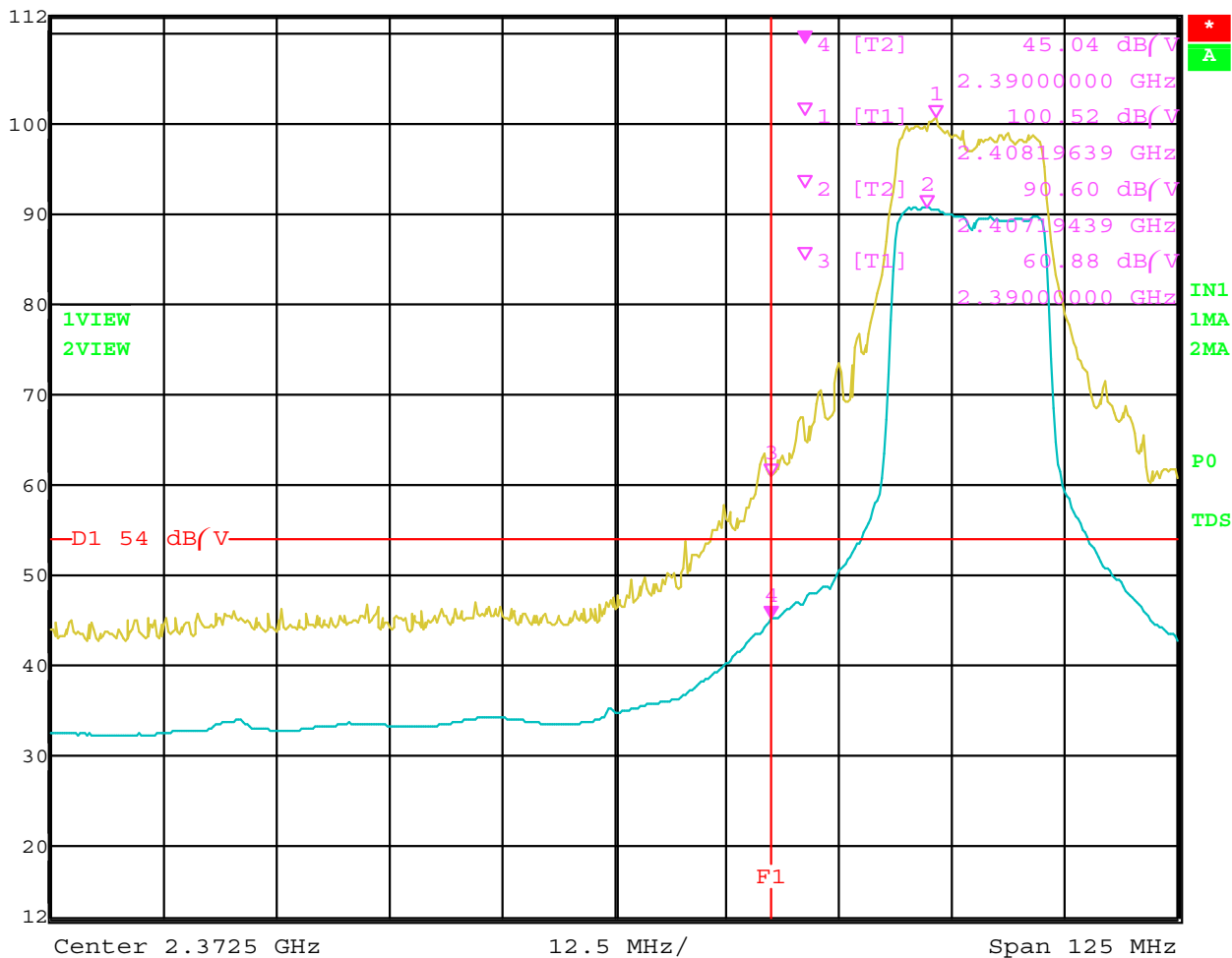


Date: 31.MAY.2006 14:06:06

Band Edge – Channel 11 – 802.11 g Mode – Vertical Polarization – Omni Antenna – Z-Axis (Worst Case)
5 dBi Version



Ref Lvl 112 dB/V
Marker 4 [T2] 45.04 dB/V
2.39000000 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 20 dB
Unit dB/V

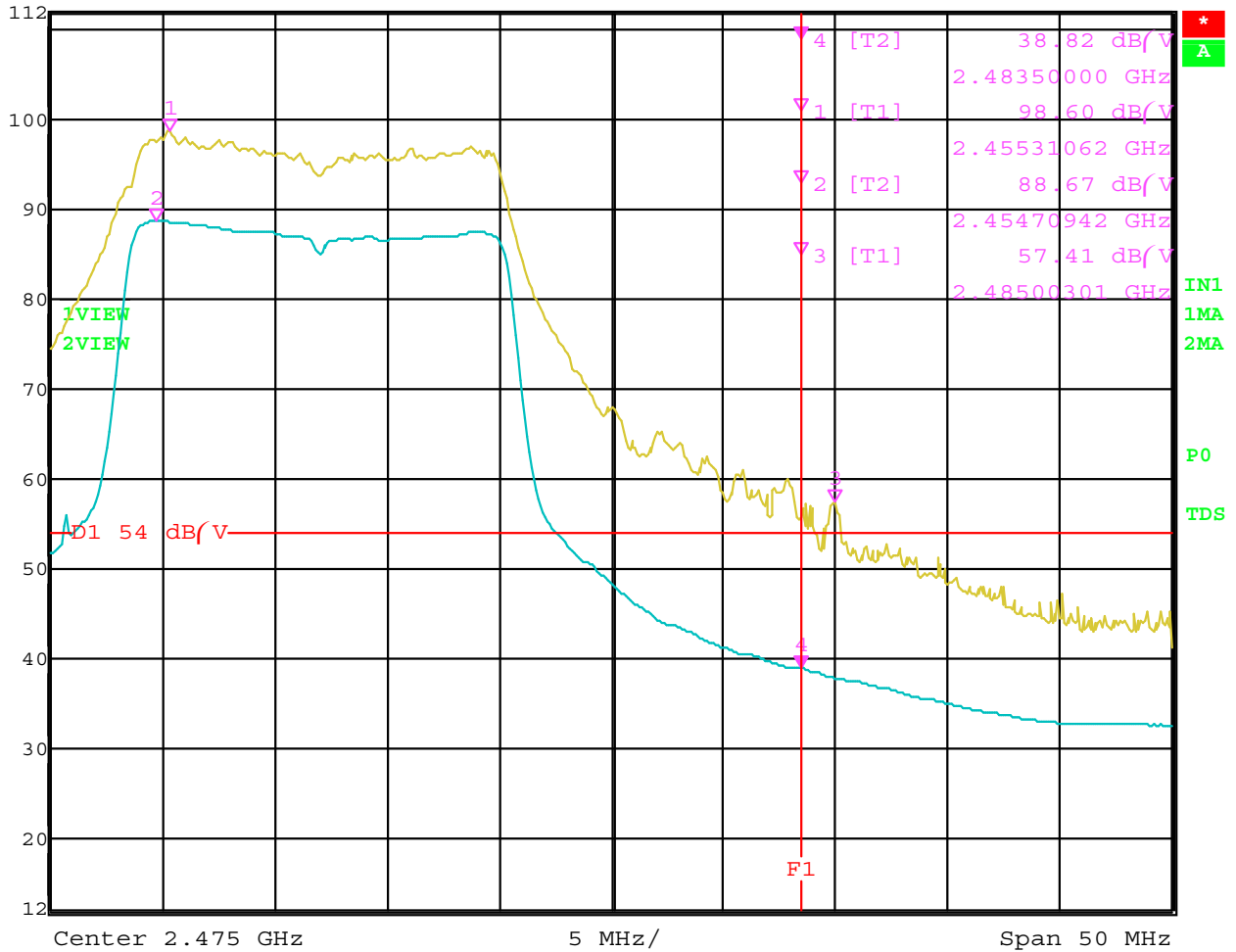


Date: 31.MAY.2006 14:33:27

Band Edge – Channel 1 – 802.11 g Mode – Horizontal Polarization – Omni Antenna – Z-Axis (Worst Case)
5 dBi Version



Ref Lvl 112 dB/V
Marker 4 [T2] 38.82 dB/V
2.48350000 GHz
RBW 1 MHz
RF Att 20 dB
VBW 10 Hz
SWT 12.5 s
Unit dB/V



Date: 31.MAY.2006 14:42:51

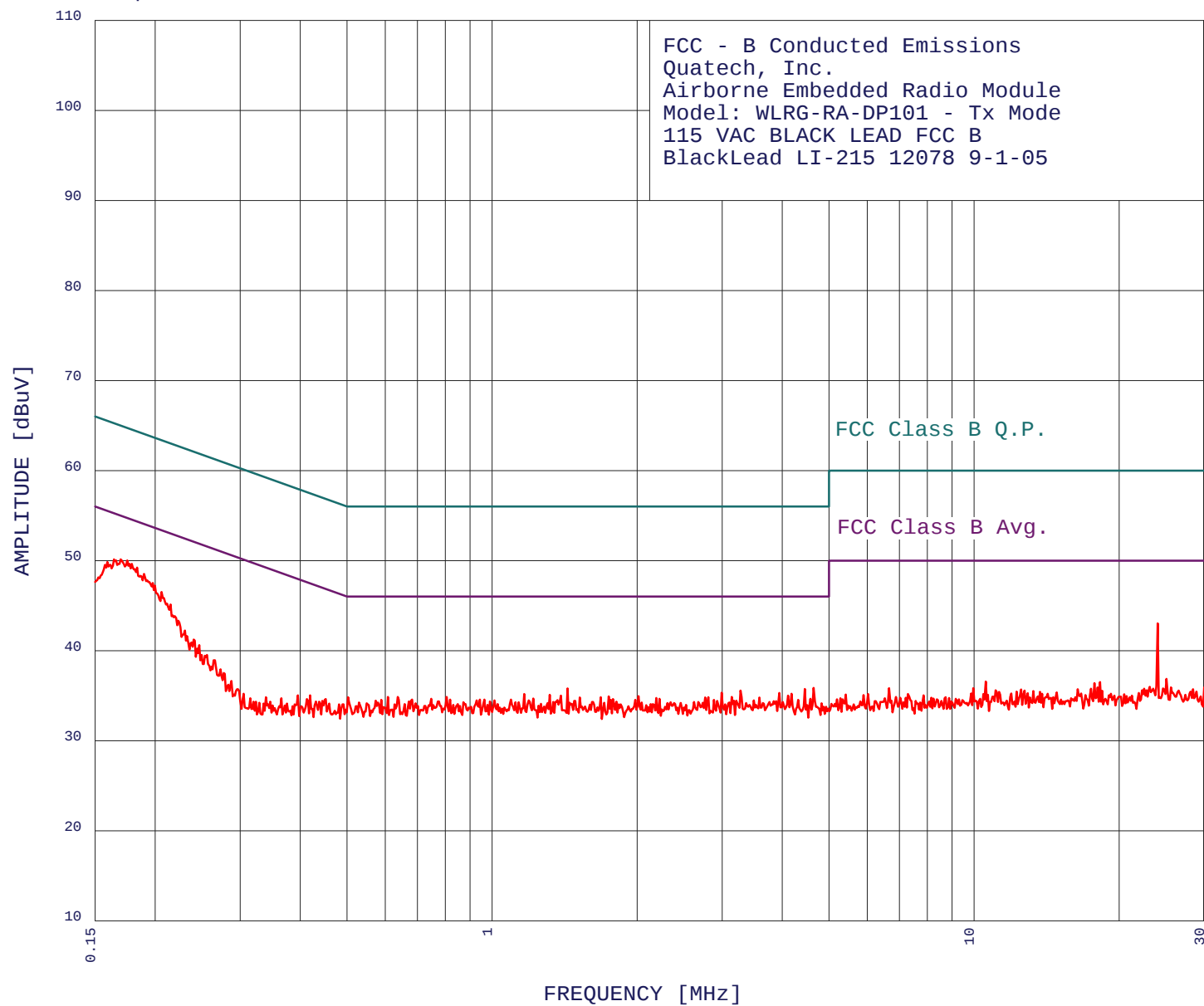
Band Edge - Channel 11 - 802.11 g Mode - Horizontal Polarization - Omni Antenna - Z-Axis (Worst Case)
5 dBi Version

CONDUCTED EMISSIONS

DATA SHEETS

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

6/22/2006 15:39:31




**COMPATIBLE
ELECTRONICS**

6/22/2006

15:39:31

FCC - B Conducted Emissions

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101 - Tx Mode

115 VAC BLACK LEAD FCC B

BlackLead LI-215 12078 9-1-05

TEST ENGINEER : BENIGNO CHAVEZ

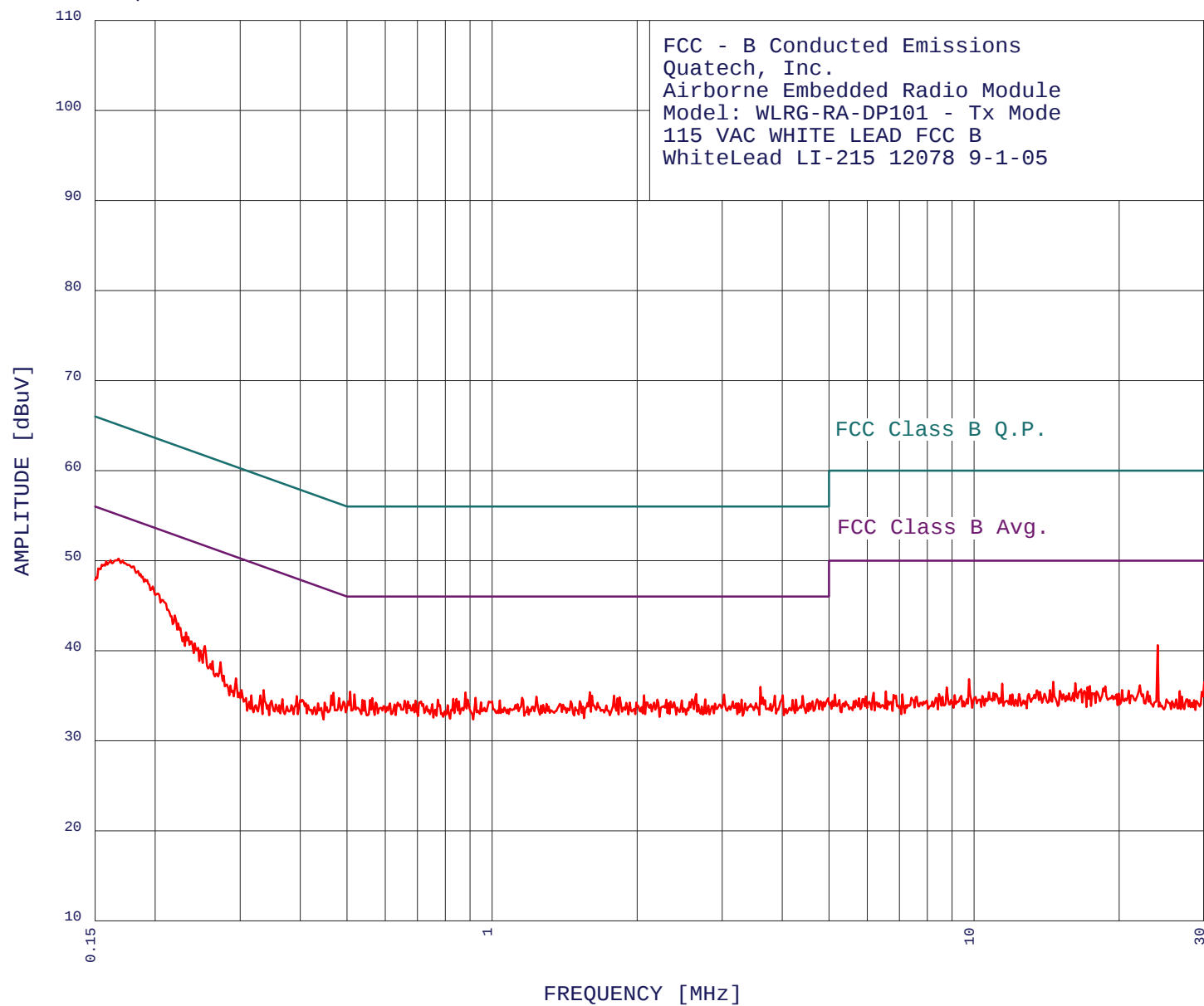
40 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.164	50.12	55.25	-5.12
2	0.206	46.51	53.35	-6.84
3	24.027	43.03	50.00	-6.97
4	4.648	35.85	46.00	-10.15
5	1.434	35.79	46.00	-10.21
6	4.456	35.73	46.00	-10.27
7	3.277	35.55	46.00	-10.45
8	2.995	35.33	46.00	-10.67
9	3.945	35.30	46.00	-10.70
10	4.182	35.21	46.00	-10.79
11	1.166	35.18	46.00	-10.82
12	0.240	41.21	52.08	-10.87
13	1.318	35.09	46.00	-10.91
14	4.114	35.01	46.00	-10.99
15	1.389	34.99	46.00	-11.01
16	2.013	34.93	46.00	-11.07
17	1.745	34.91	46.00	-11.09
18	0.805	34.85	46.00	-11.15
19	3.141	34.84	46.00	-11.16
20	0.637	34.84	46.00	-11.16
21	0.608	34.84	46.00	-11.16
22	0.502	34.83	46.00	-11.17
23	2.811	34.81	46.00	-11.19
24	1.680	34.81	46.00	-11.19
25	2.766	34.81	46.00	-11.19
26	1.520	34.80	46.00	-11.20
27	3.585	34.77	46.00	-11.23
28	0.247	40.61	51.86	-11.25
29	2.190	34.75	46.00	-11.25
30	1.217	34.68	46.00	-11.32
31	2.226	34.65	46.00	-11.35
32	0.747	34.65	46.00	-11.35
33	4.576	34.64	46.00	-11.36
34	1.781	34.62	46.00	-11.38
35	1.094	34.57	46.00	-11.43
36	0.963	34.56	46.00	-11.44
37	0.944	34.56	46.00	-11.44
38	0.818	34.55	46.00	-11.45
39	0.683	34.54	46.00	-11.46
40	0.589	34.54	46.00	-11.46

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

6/22/2006 15:32:51





**COMPATIBLE
ELECTRONICS**

6/22/2006

15:32:51

FCC - B Conducted Emissions

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101 - Tx Mode

115 VAC WHITE LEAD FCC B

WhiteLead LI-215 12078 9-1-05

TEST ENGINEER : BENIGNO CHAVEZ

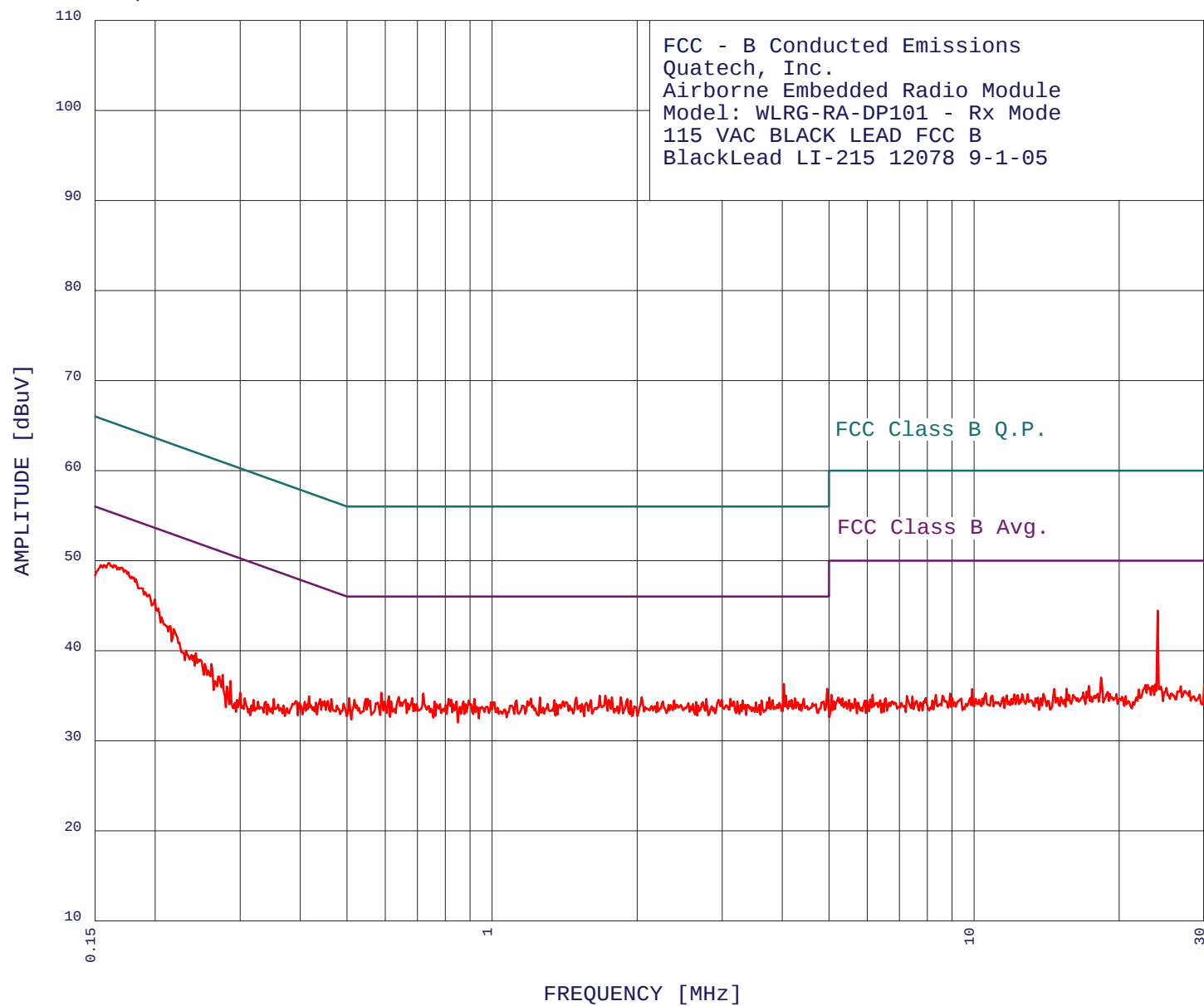
40 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.168	50.23	55.07	-4.84
2	0.220	43.92	52.83	-8.91
3	24.027	40.60	50.00	-9.40
4	3.605	35.98	46.00	-10.02
5	0.232	42.02	52.39	-10.37
6	0.508	35.44	46.00	-10.56
7	1.594	35.40	46.00	-10.60
8	0.881	35.35	46.00	-10.65
9	2.651	35.19	46.00	-10.81
10	0.518	35.13	46.00	-10.87
11	3.027	35.12	46.00	-10.88
12	2.066	35.03	46.00	-10.97
13	4.008	35.02	46.00	-10.98
14	1.790	35.01	46.00	-10.99
15	3.862	35.01	46.00	-10.99
16	1.611	35.00	46.00	-11.00
17	4.408	34.96	46.00	-11.04
18	0.254	40.52	51.64	-11.12
19	1.236	34.88	46.00	-11.12
20	1.840	34.81	46.00	-11.19
21	0.469	35.34	46.53	-11.20
22	0.242	40.82	52.04	-11.22
23	1.154	34.77	46.00	-11.23
24	0.924	34.75	46.00	-11.25
25	0.564	34.73	46.00	-11.27
26	1.820	34.71	46.00	-11.29
27	4.980	34.71	46.00	-11.29
28	0.844	34.65	46.00	-11.35
29	0.831	34.65	46.00	-11.35
30	2.766	34.60	46.00	-11.40
31	4.722	34.59	46.00	-11.41
32	2.596	34.58	46.00	-11.42
33	2.298	34.55	46.00	-11.45
34	0.890	34.55	46.00	-11.45
35	3.294	34.55	46.00	-11.45
36	4.272	34.55	46.00	-11.45
37	0.771	34.55	46.00	-11.45
38	2.201	34.54	46.00	-11.46
39	4.204	34.54	46.00	-11.46
40	0.558	34.53	46.00	-11.47

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

6/22/2006 15:48:50




**COMPATIBLE
ELECTRONICS**

6/22/2006

15:48:50

FCC - B Conducted Emissions

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101 - Rx Mode

115 VAC BLACK LEAD FCC B

BlackLead LI-215 12078 9-1-05

TEST ENGINEER : BENIGNO CHAVEZ

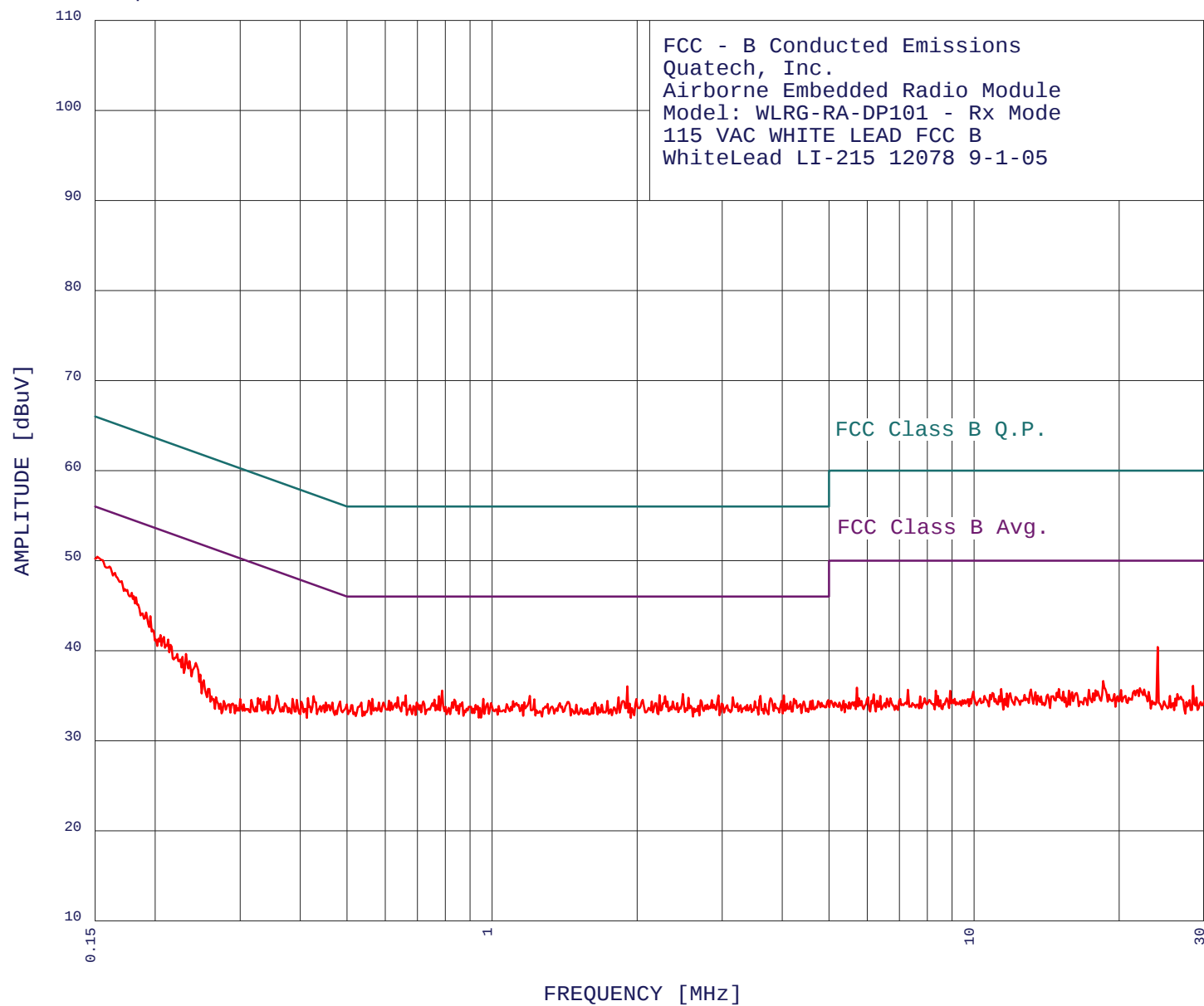
 40 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	24.027	44.43	50.00	-5.57
2	0.160	49.73	55.47	-5.74
3	4.029	36.30	46.00	-9.70
4	4.954	35.77	46.00	-10.23
5	0.219	42.41	52.87	-10.46
6	0.589	35.34	46.00	-10.66
7	0.720	35.25	46.00	-10.75
8	1.717	35.01	46.00	-10.99
9	1.671	35.01	46.00	-10.99
10	4.071	35.01	46.00	-10.99
11	0.611	34.94	46.00	-11.06
12	0.641	34.84	46.00	-11.16
13	2.044	34.83	46.00	-11.17
14	1.849	34.82	46.00	-11.18
15	1.772	34.82	46.00	-11.18
16	1.496	34.80	46.00	-11.20
17	3.761	34.79	46.00	-11.21
18	1.256	34.78	46.00	-11.22
19	0.683	34.74	46.00	-11.26
20	0.505	34.73	46.00	-11.27
21	4.249	34.72	46.00	-11.28
22	1.204	34.68	46.00	-11.32
23	0.919	34.66	46.00	-11.34
24	0.814	34.65	46.00	-11.35
25	3.124	34.64	46.00	-11.36
26	0.552	34.64	46.00	-11.36
27	0.547	34.64	46.00	-11.36
28	4.432	34.63	46.00	-11.37
29	1.908	34.62	46.00	-11.38
30	2.781	34.61	46.00	-11.39
31	0.518	34.53	46.00	-11.47
32	2.995	34.53	46.00	-11.47
33	1.603	34.50	46.00	-11.50
34	3.820	34.49	46.00	-11.51
35	1.345	34.49	46.00	-11.51
36	3.624	34.48	46.00	-11.52
37	1.124	34.47	46.00	-11.53
38	2.384	34.47	46.00	-11.53
39	0.895	34.46	46.00	-11.54
40	3.311	34.46	46.00	-11.54

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

6/22/2006 15:55:35





**COMPATIBLE
ELECTRONICS**

6/22/2006

15:55:35

FCC - B Conducted Emissions

Quatech, Inc.

Airborne Embedded Radio Module

Model: WLRG-RA-DP101 - Rx Mode

115 VAC WHITE LEAD FCC B

WhiteLead LI-215 12078 9-1-05

TEST ENGINEER : BENIGNO CHAVEZ

40 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	24.027	40.40	50.00	-9.60
2	0.196	43.82	53.80	-9.98
3	1.908	36.02	46.00	-9.98
4	0.788	35.55	46.00	-10.45
5	2.488	35.17	46.00	-10.83
6	2.226	35.05	46.00	-10.95
7	0.662	35.04	46.00	-10.96
8	4.029	35.02	46.00	-10.98
9	2.948	35.02	46.00	-10.98
10	3.605	34.98	46.00	-11.02
11	1.197	34.97	46.00	-11.03
12	2.286	34.95	46.00	-11.05
13	0.775	34.95	46.00	-11.05
14	3.158	34.84	46.00	-11.16
15	0.637	34.84	46.00	-11.16
16	1.830	34.81	46.00	-11.19
17	2.554	34.78	46.00	-11.22
18	3.781	34.70	46.00	-11.30
19	0.958	34.66	46.00	-11.34
20	4.227	34.64	46.00	-11.36
21	0.564	34.63	46.00	-11.37
22	1.992	34.62	46.00	-11.38
23	1.223	34.57	46.00	-11.43
24	0.835	34.55	46.00	-11.45
25	0.759	34.54	46.00	-11.46
26	4.980	34.51	46.00	-11.49
27	2.855	34.51	46.00	-11.49
28	2.707	34.49	46.00	-11.51
29	0.611	34.43	46.00	-11.57
30	0.555	34.43	46.00	-11.57
31	3.987	34.42	46.00	-11.58
32	1.735	34.41	46.00	-11.59
33	3.511	34.37	46.00	-11.63
34	1.106	34.37	46.00	-11.63
35	4.432	34.36	46.00	-11.64
36	2.371	34.36	46.00	-11.64
37	0.720	34.34	46.00	-11.66
38	2.145	34.34	46.00	-11.66
39	4.159	34.33	46.00	-11.67
40	0.205	41.72	53.40	-11.68
