

APPENDIX B: DATA SET TWO

After gathering the data presented in Appendix A it was requested that more data be collected in the area to the North and East of the city of Boulder. Additionally we were asked to include measurements of the root mean square (rms) levels in addition to the peak values as reported in the first data set. The measured field strengths are shown in Table 2, and the graphs in Figures 94–141 show the spectrum analyzer trace data.

Table 2: Test 2 Measurement Results

Point	Picture		Field Strength at 1.5 meters		Field Strength at 10 meters	
	Rcr 1	Rcr 2	peak (dB μ V/m)	rms (dB μ V/m)	peak (dB μ V/m)	rms (dB μ V/m)
31	Y	Y	78	70	96	87
32	Y	Y	78	69	92	84
33	Y	Y	79	70	95	87
34	Y	N	78	68	93	85
35	Y	Y	81	72	94	86
36	Y	Y	93	85	105	98
37	Y	Y	83	74	93	84
38	Y	N	70	61	84	76
39	Y	N	70	61	83	75
40	N	N	63	52	66	66
41	Y	N	70	61	86	77
42	Y	N	74	68	77	68

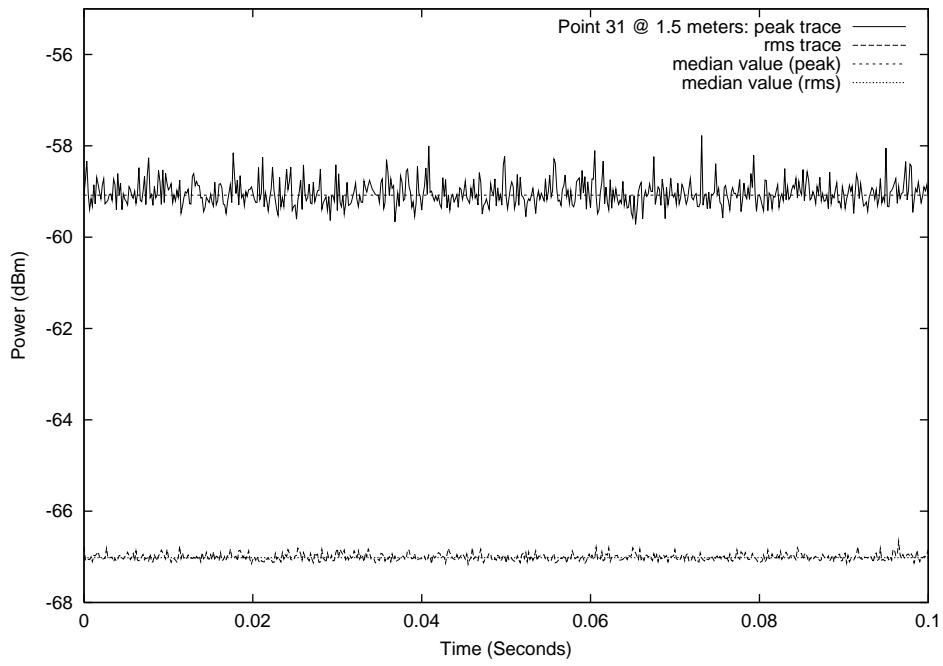


Figure 94: Power at 1.5 meters in location 31.

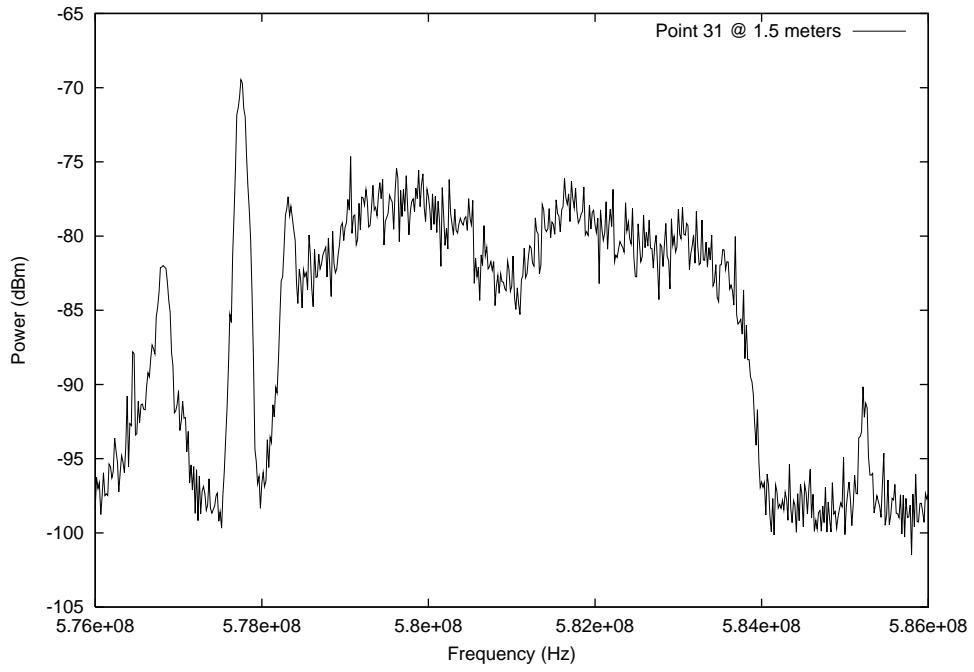


Figure 95: DTV envelope at 1.5 meters in location 31.

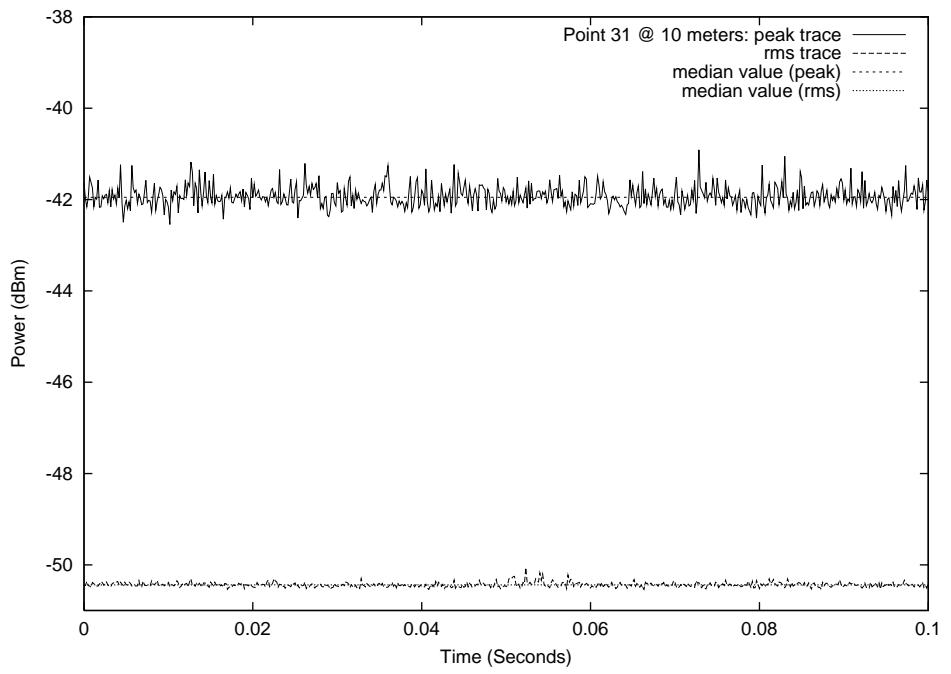


Figure 96: Power at 10 meters in location 31.

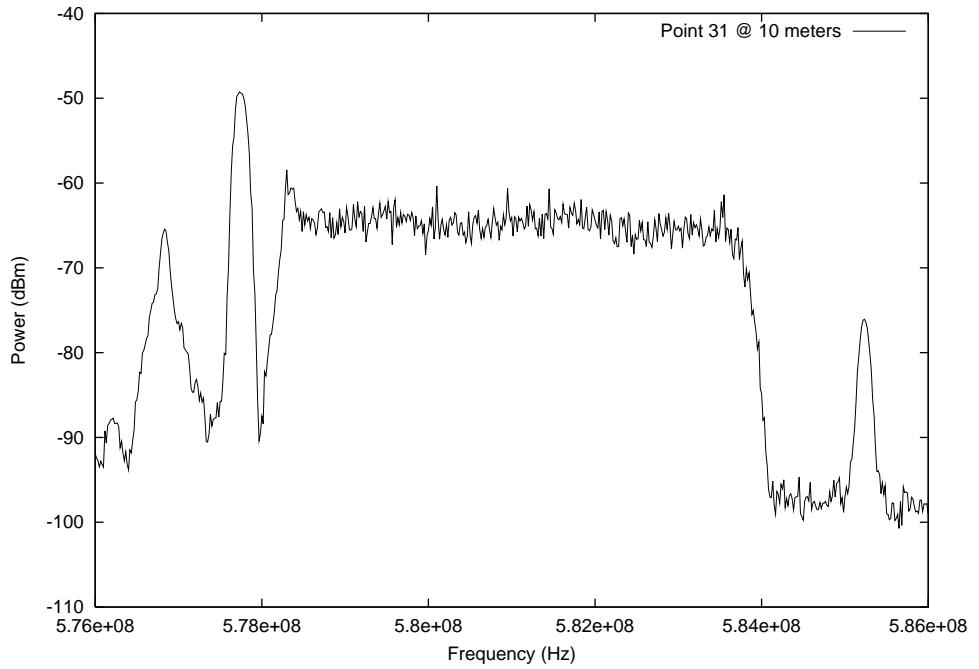


Figure 97: DTV envelope at 10 meters in location 31.

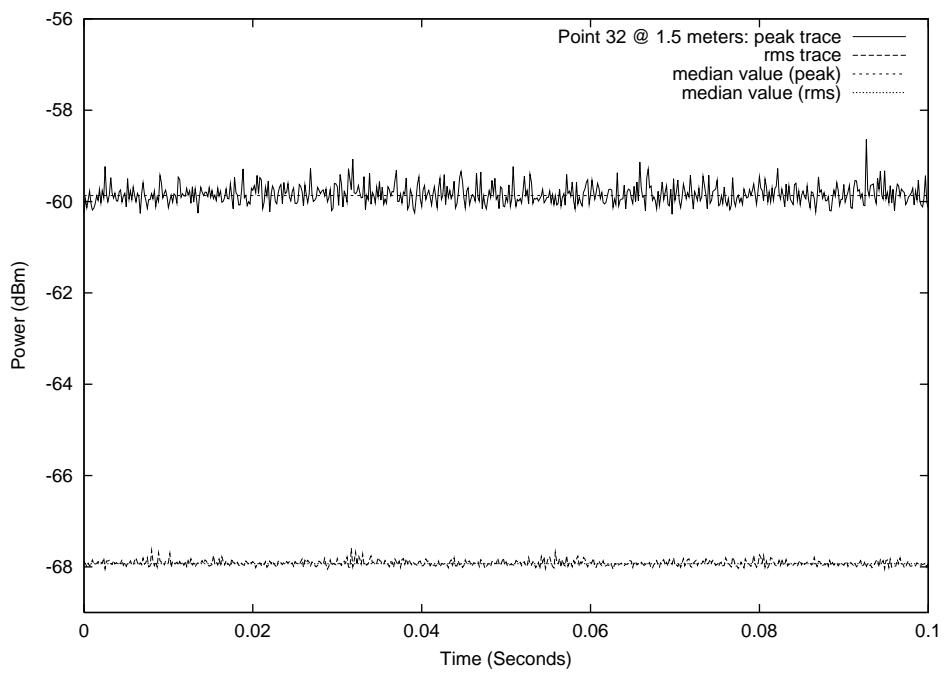


Figure 98: Power at 1.5 meters in location 32.

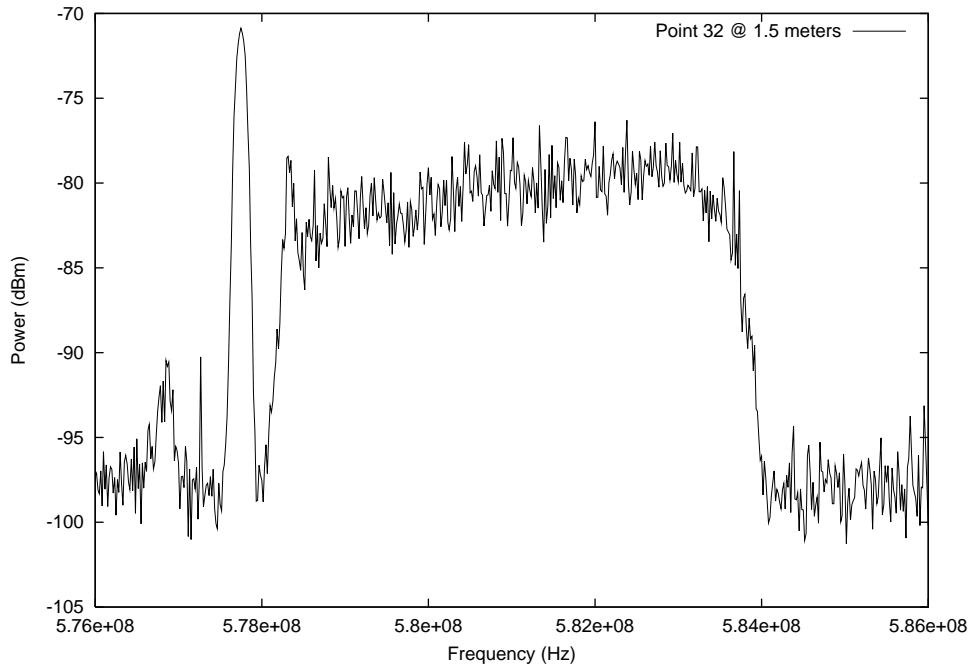


Figure 99: DTV envelope at 1.5 meters in location 32.

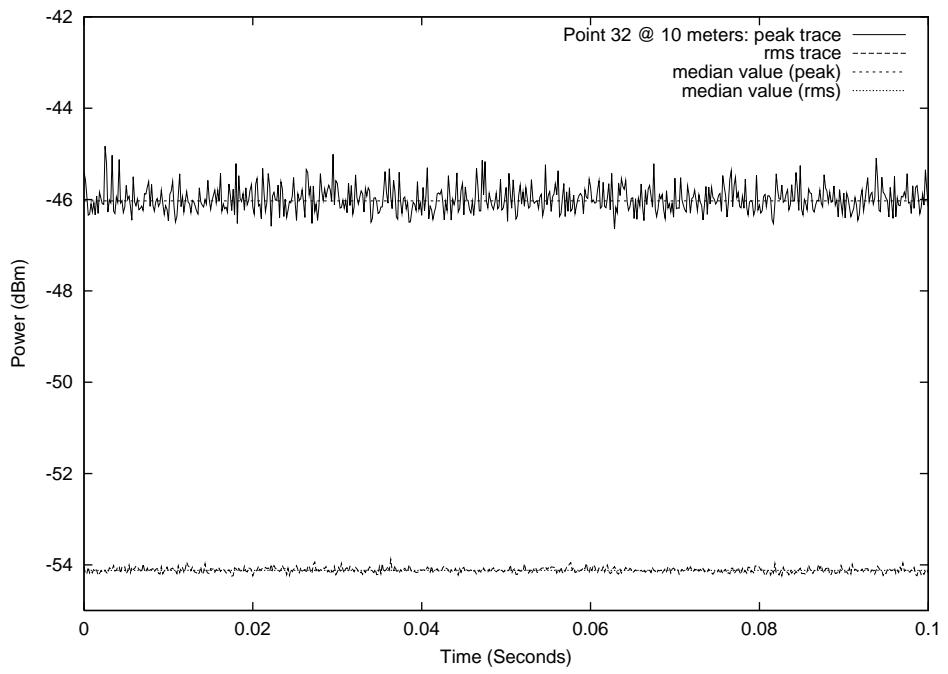


Figure 100: Power at 10 meters in location 32.

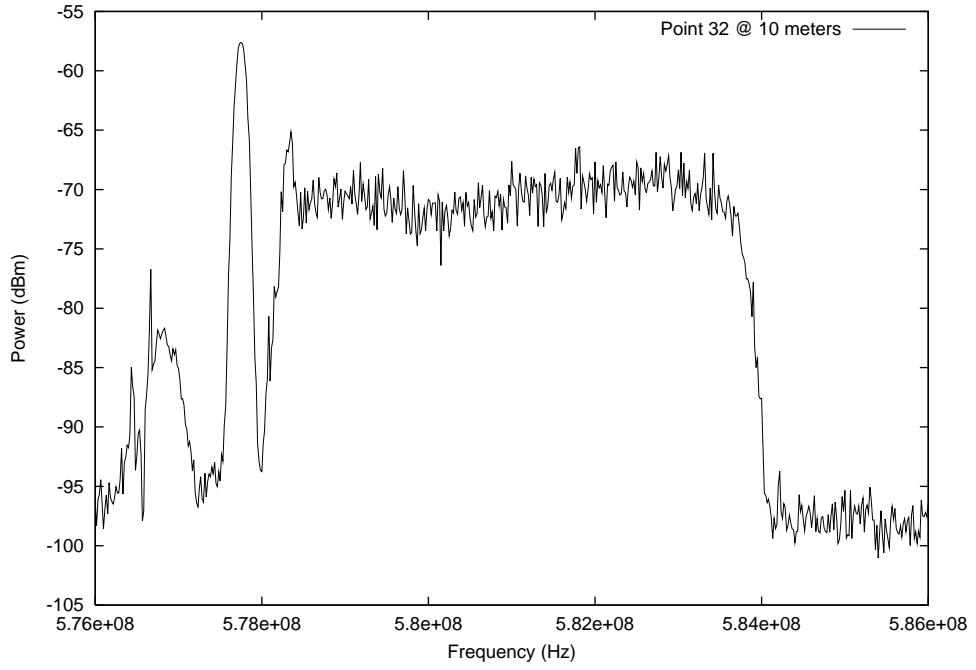


Figure 101: DTV envelope at 10 meters in location 32.

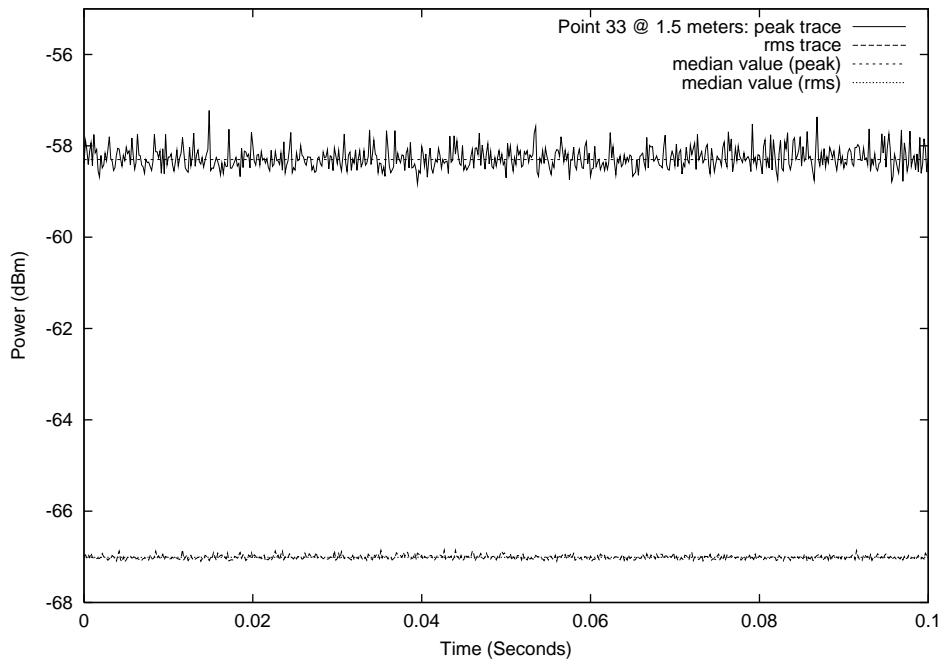


Figure 102: Power at 1.5 meters in location 33.

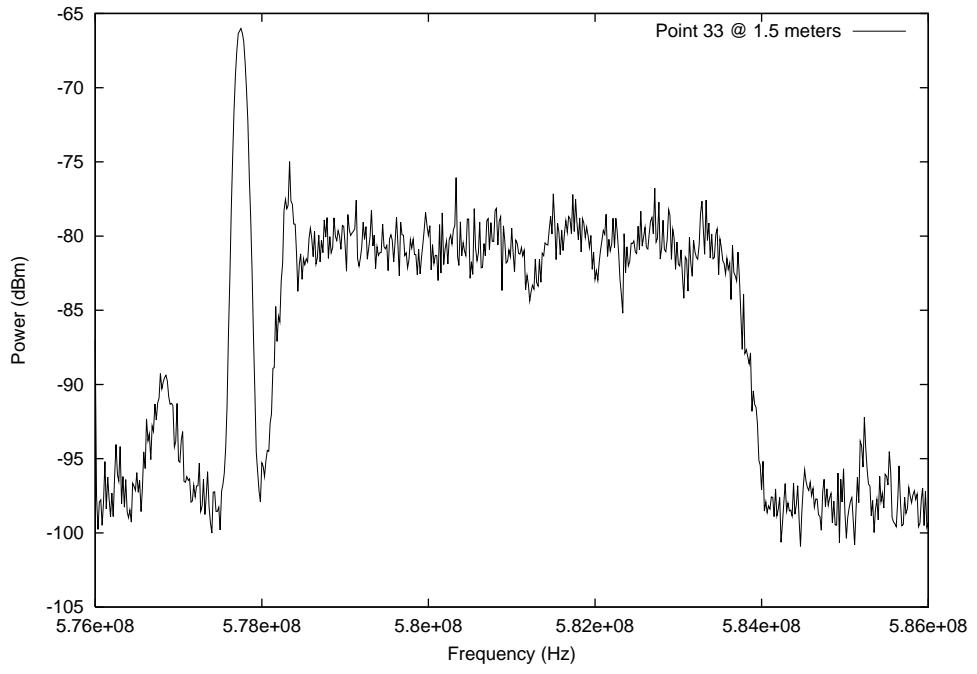


Figure 103: DTV envelope at 1.5 meters in location 33.

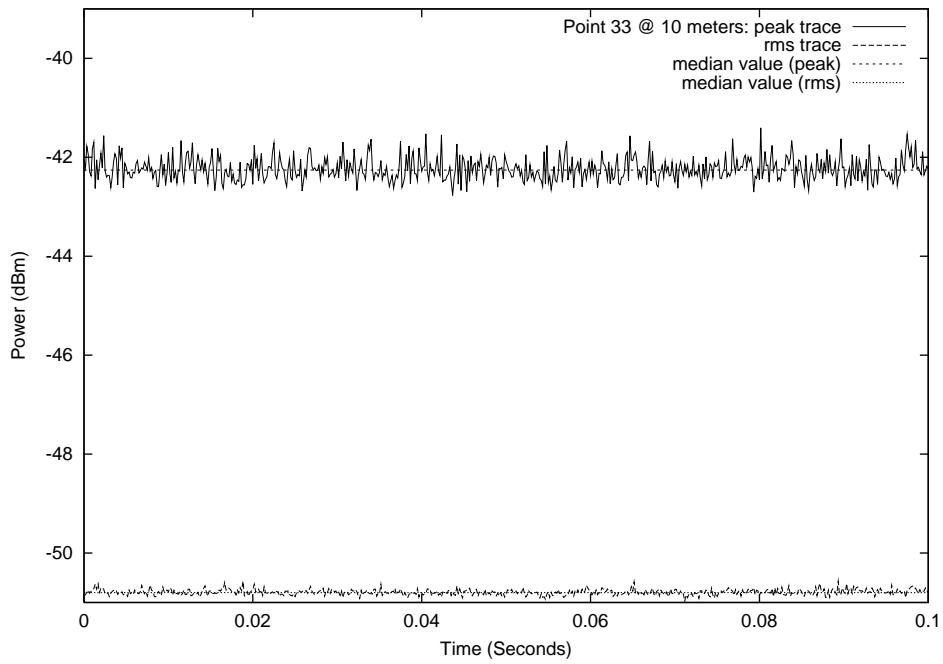


Figure 104: Power at 10 meters in location 33.

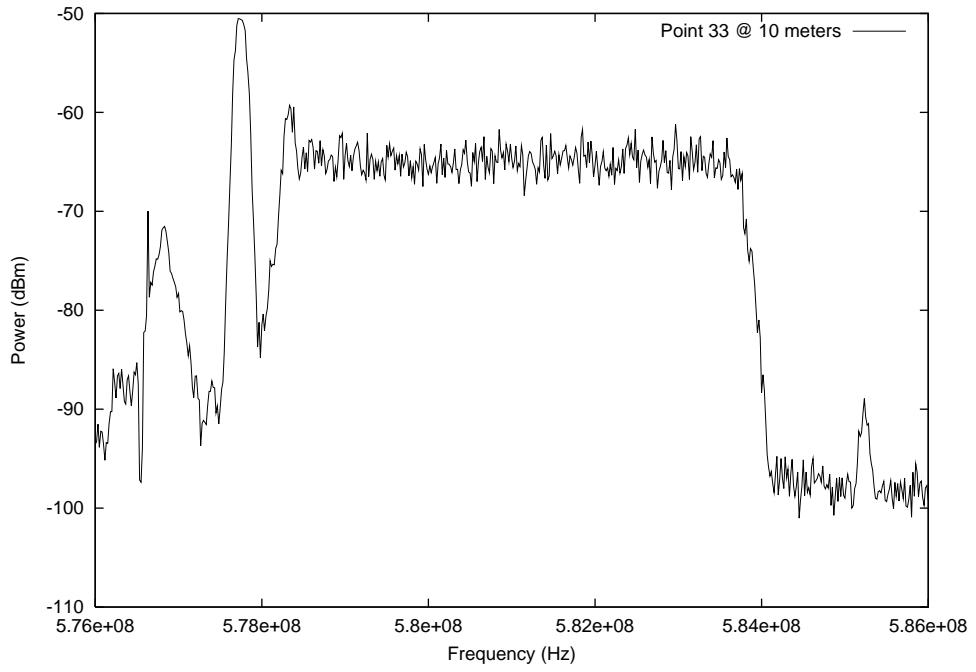


Figure 105: DTV envelope at 10 meters in location 33.

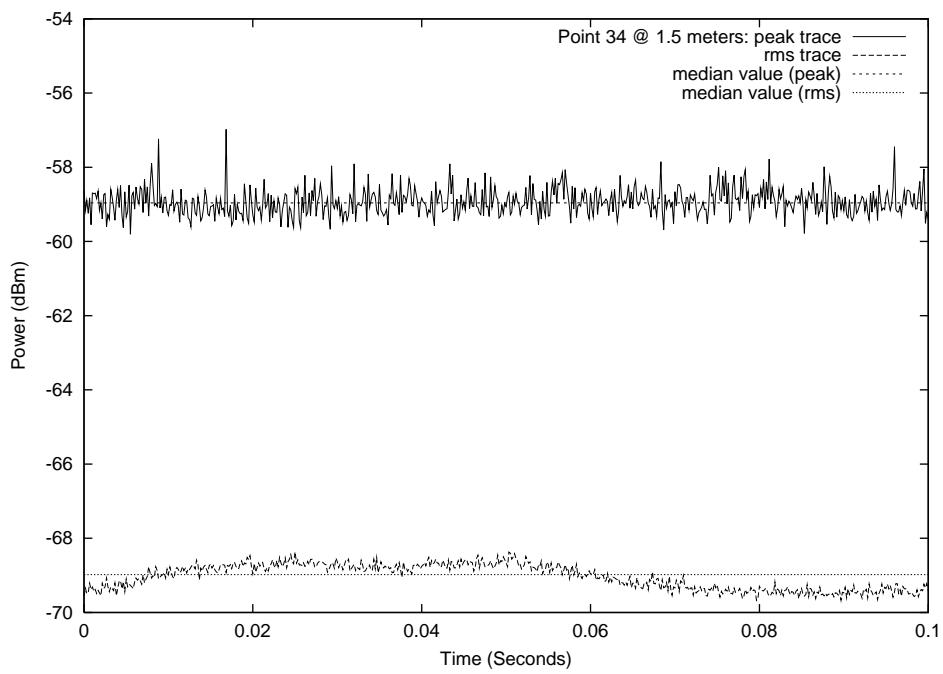


Figure 106: Power at 1.5 meters in location 34.

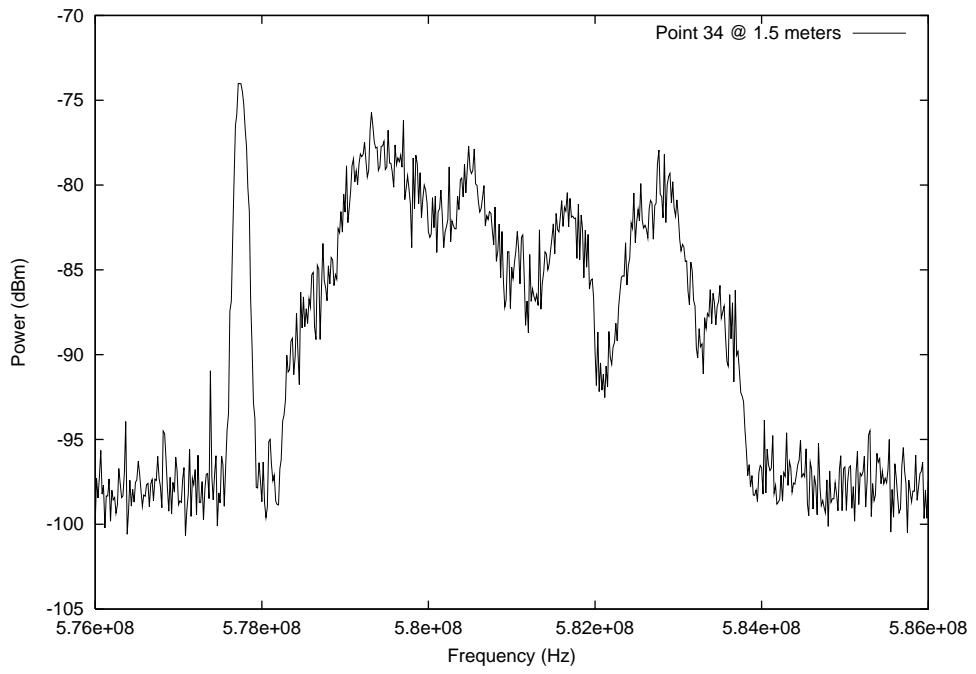


Figure 107: DTV envelope at 1.5 meters in location 34.

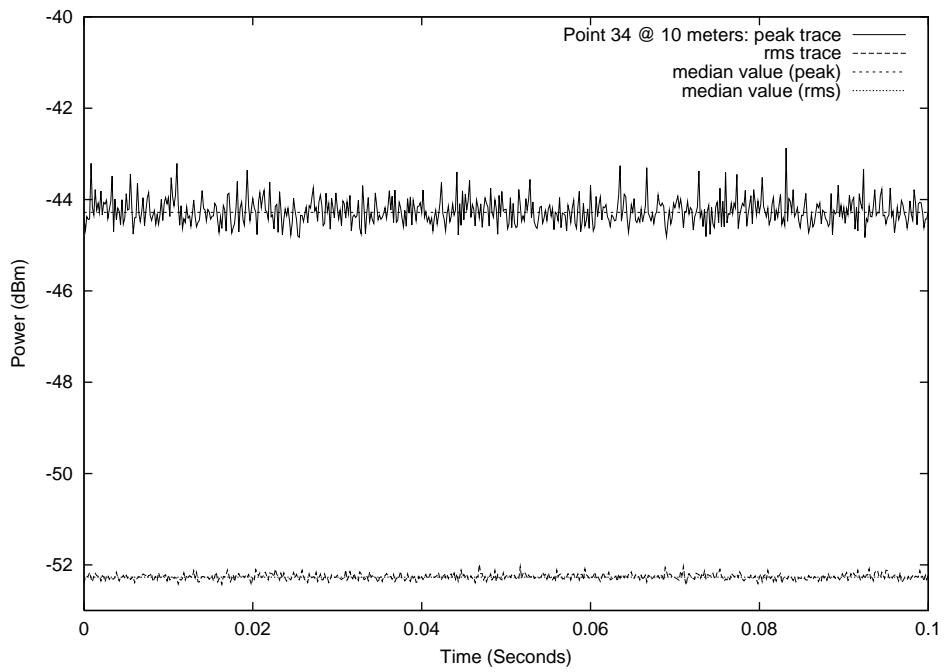


Figure 108: Power at 10 meters in location 34.

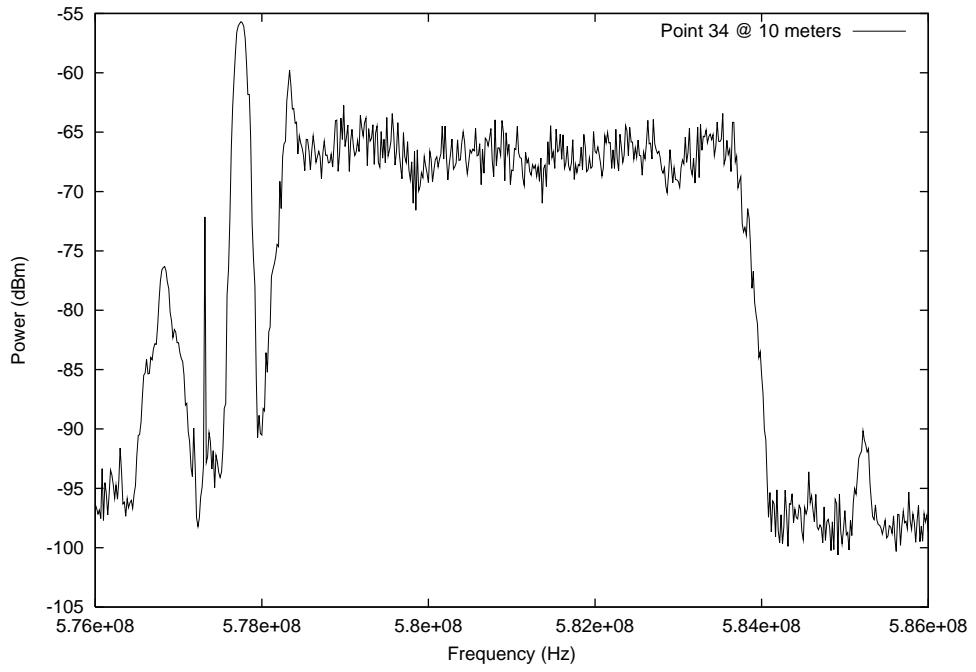


Figure 109: DTV envelope at 10 meters in location 34.

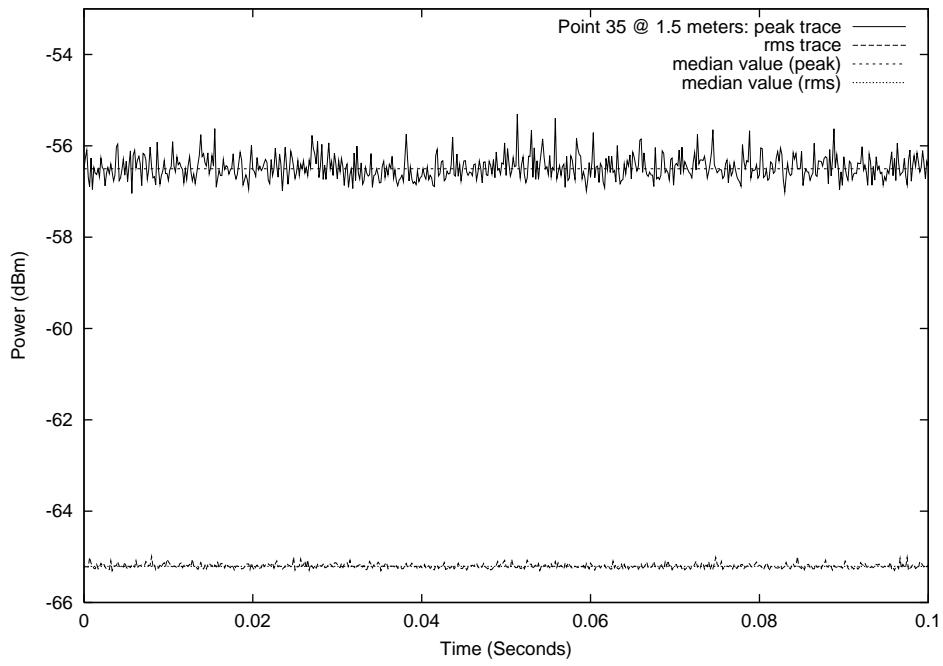


Figure 110: Power at 1.5 meters in location 35.

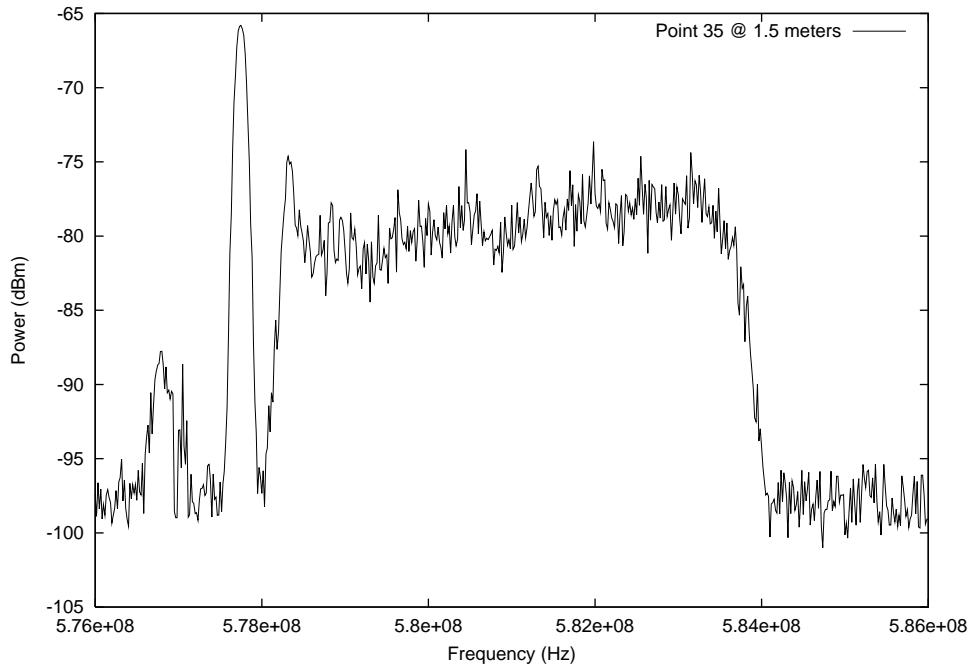


Figure 111: DTV envelope at 1.5 meters in location 35.

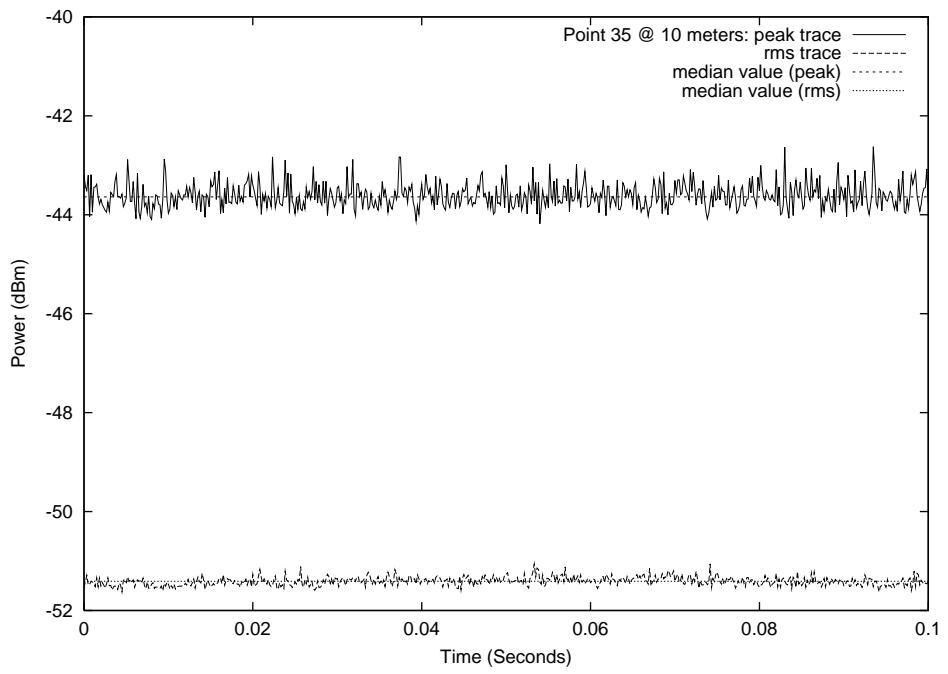


Figure 112: Power at 10 meters in location 35.

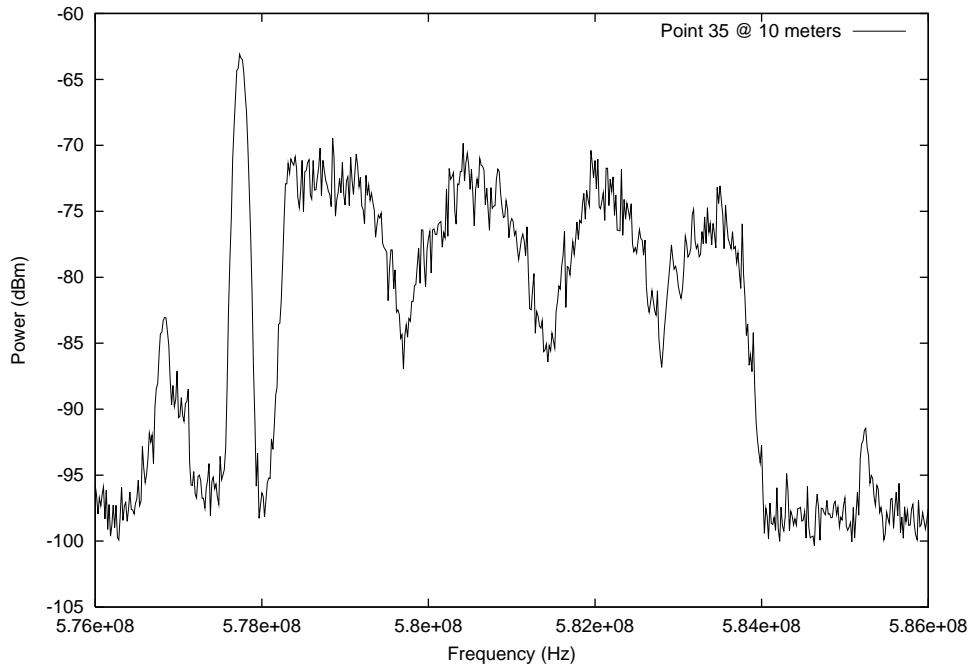


Figure 113: DTV envelope at 10 meters in location 35.

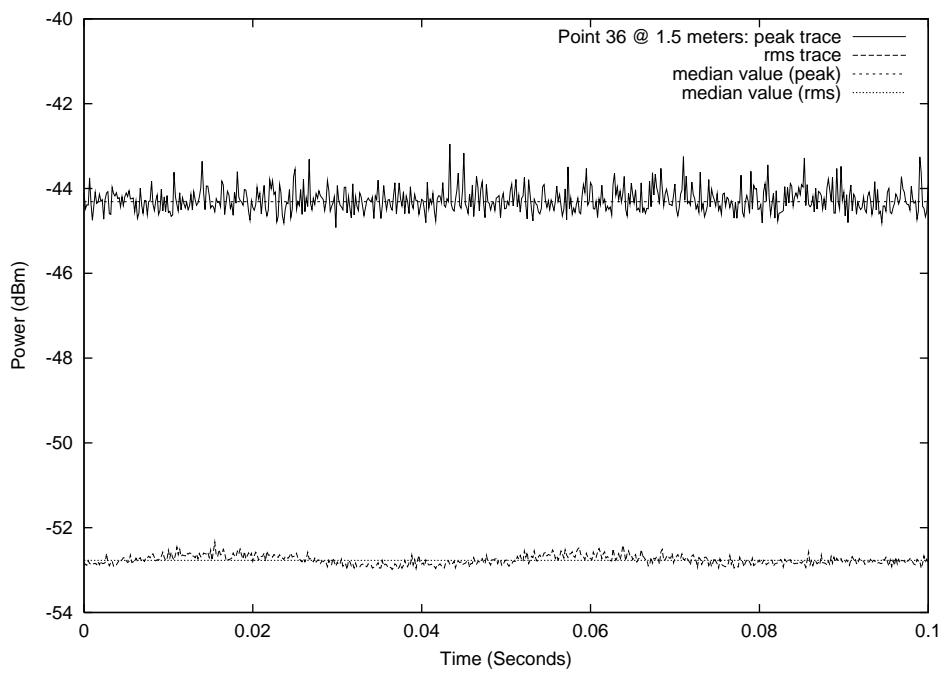


Figure 114: Power at 1.5 meters in location 36.

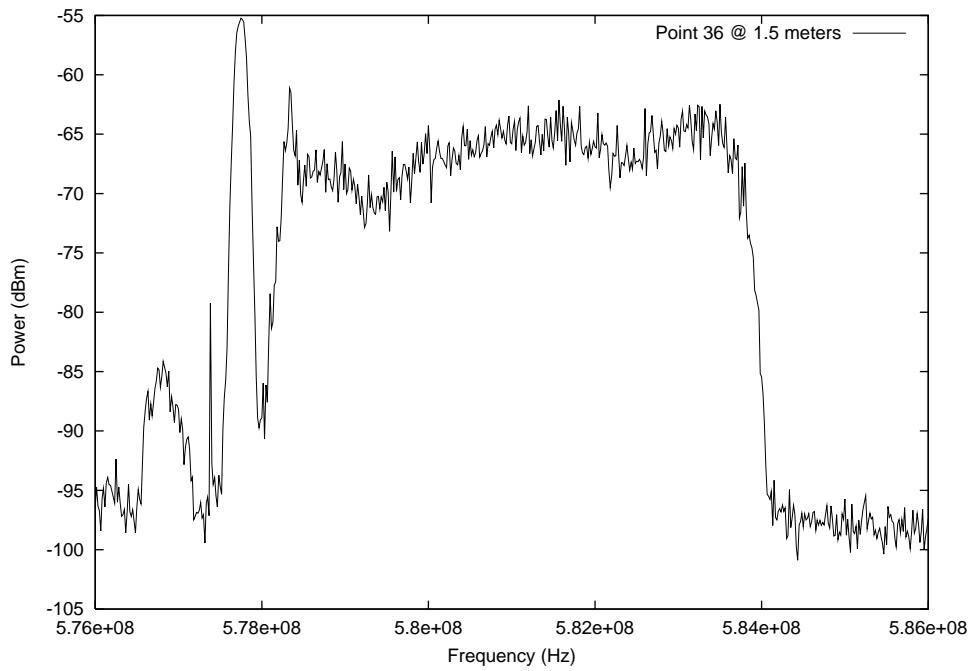


Figure 115: DTV envelope at 1.5 meters in location 36.

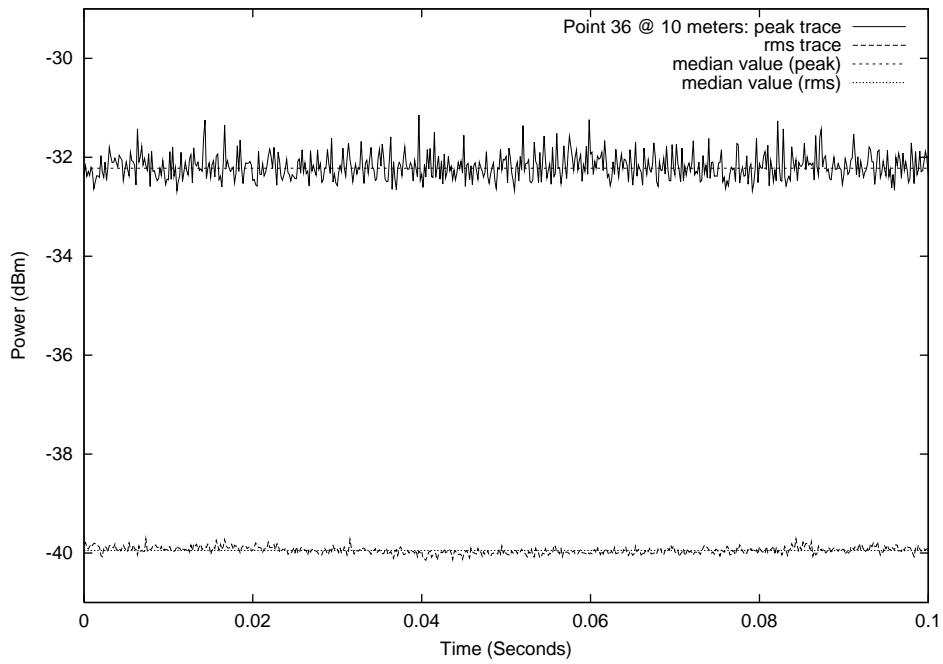


Figure 116: Power at 10 meters in location 36.

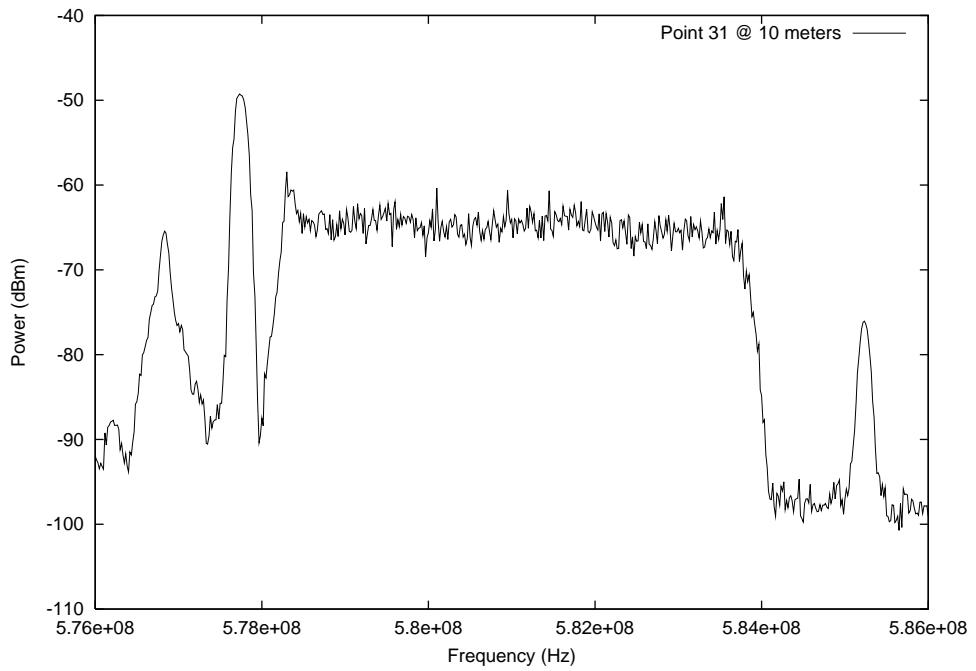


Figure 117: DTV envelope at 10 meters in location 36.

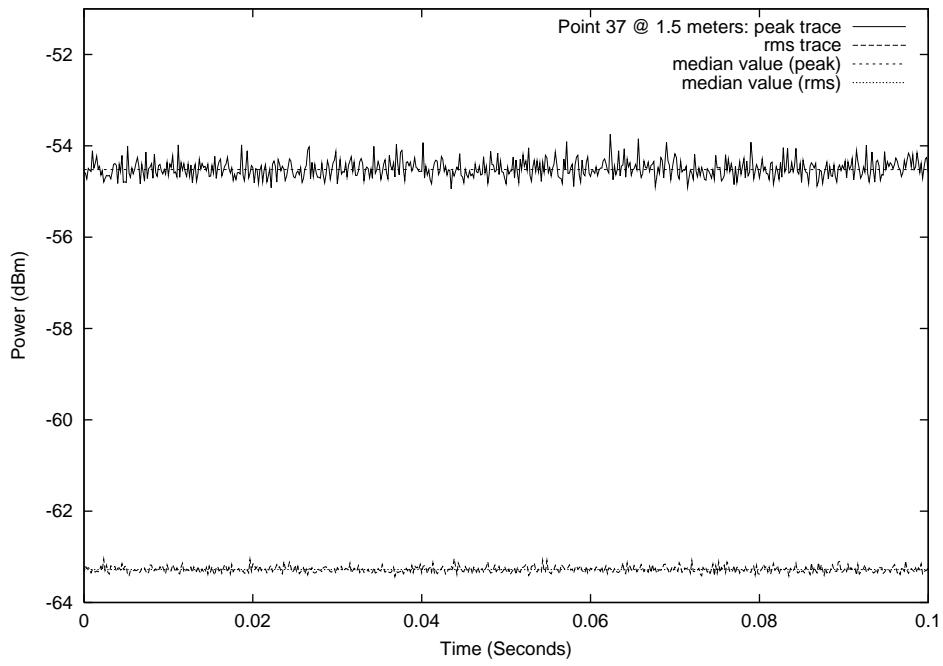


Figure 118: Power at 1.5 meters in location 37.

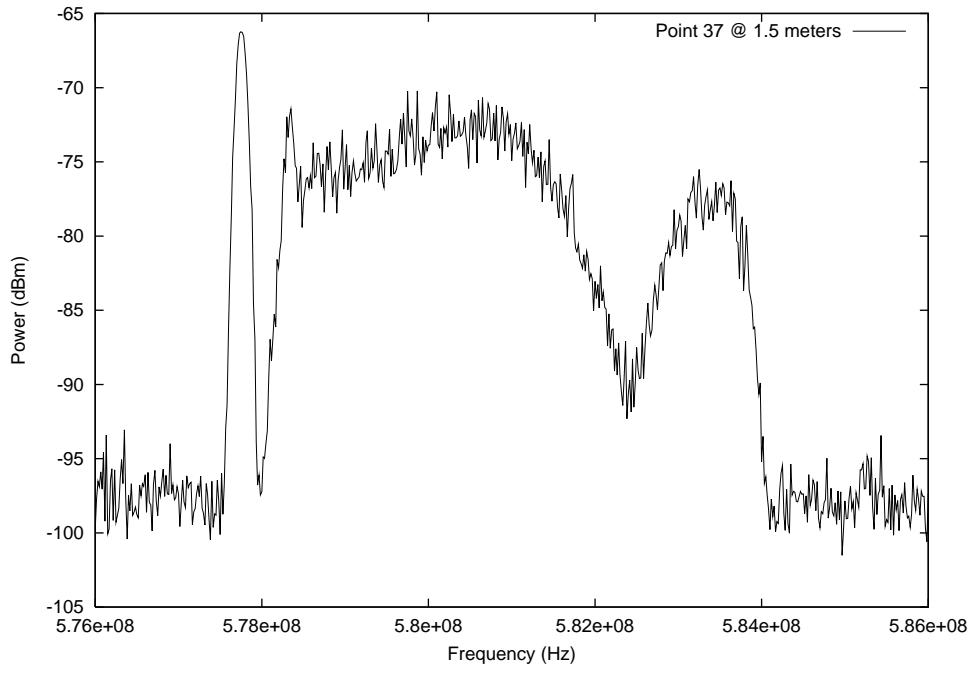


Figure 119: DTV envelope at 1.5 meters in location 37.

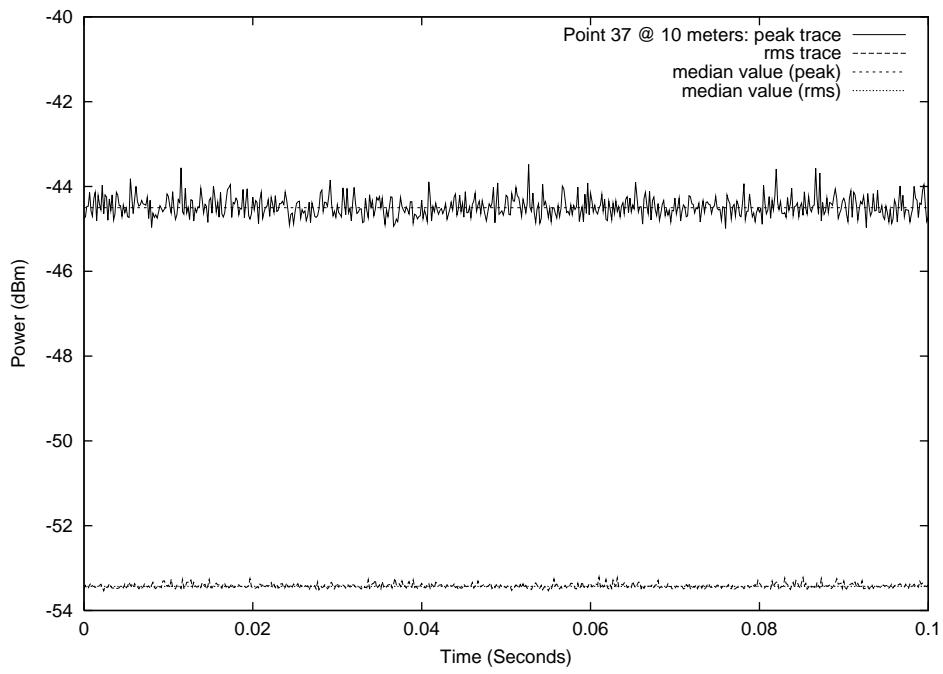


Figure 120: Power at 10 meters in location 37.

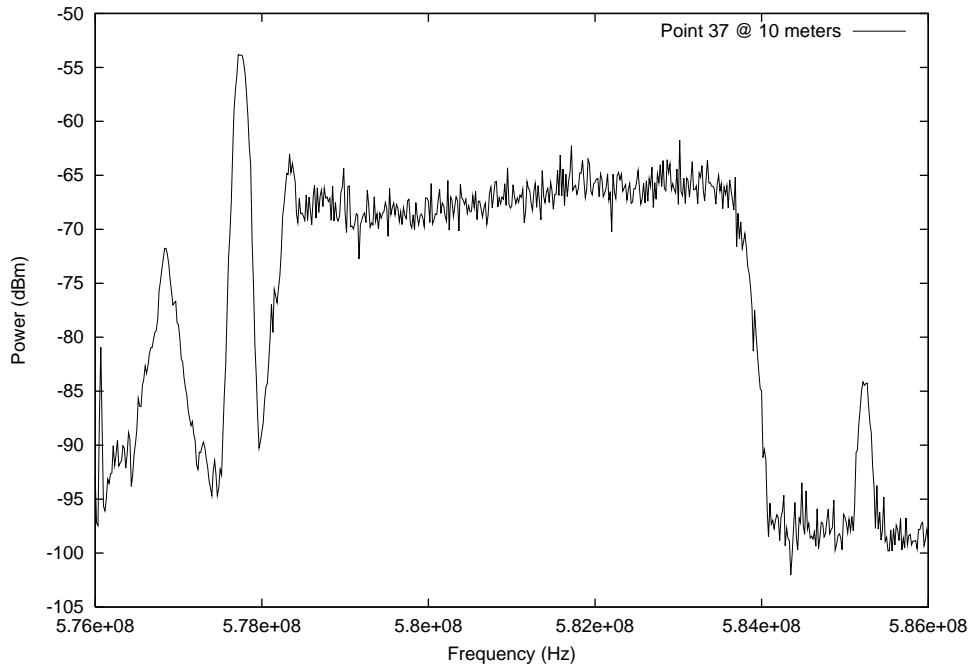


Figure 121: DTV envelope at 10 meters in location 37.

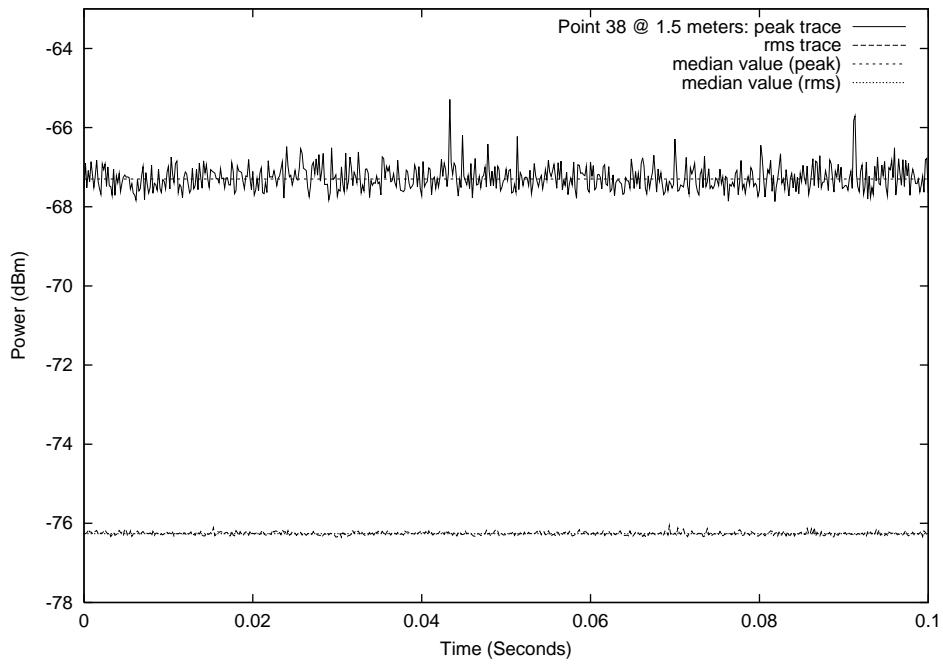


Figure 122: Power at 1.5 meters in location 38.

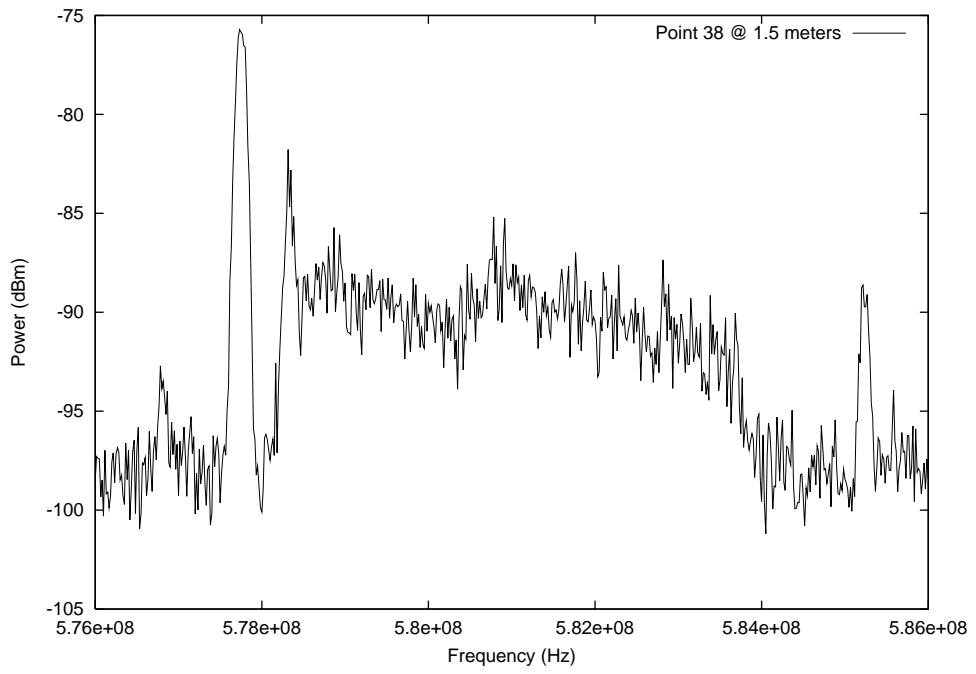


Figure 123: DTV envelope at 1.5 meters in location 38.

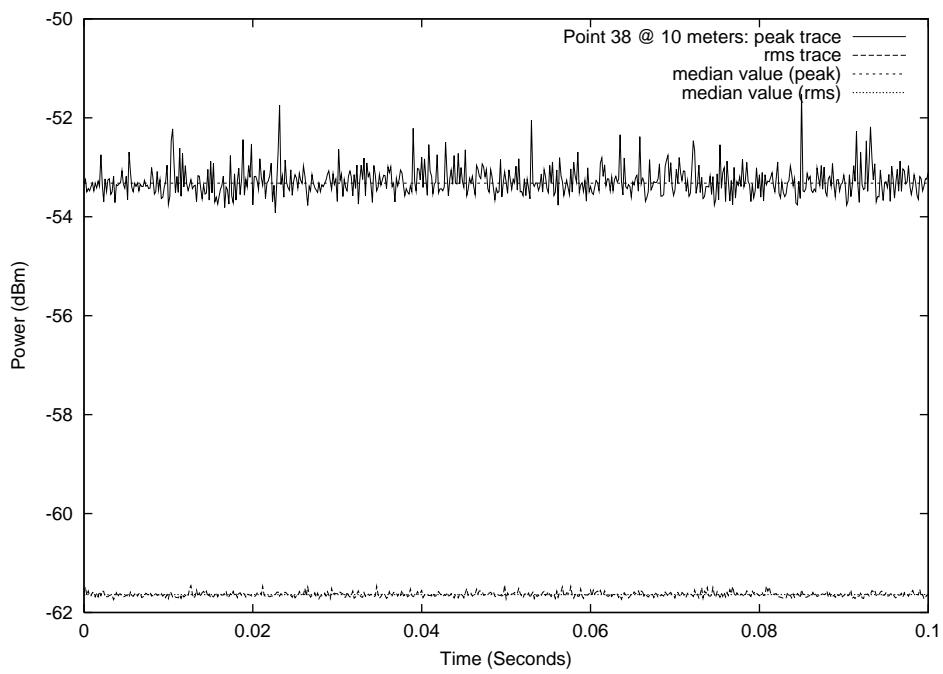


Figure 124: Power at 10 meters in location 38.

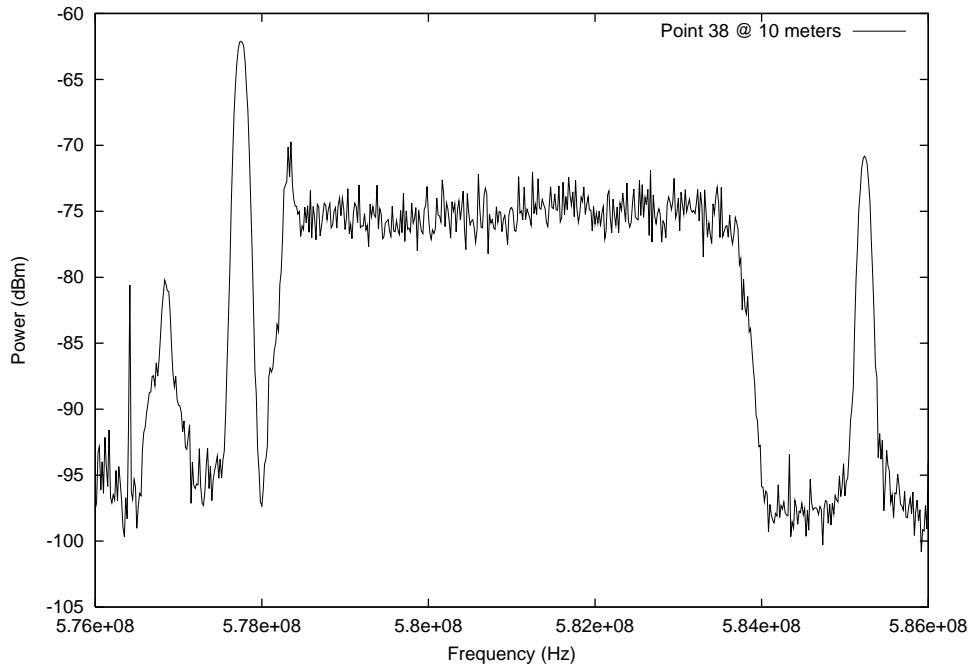


Figure 125: DTV envelope at 10 meters in location 38.

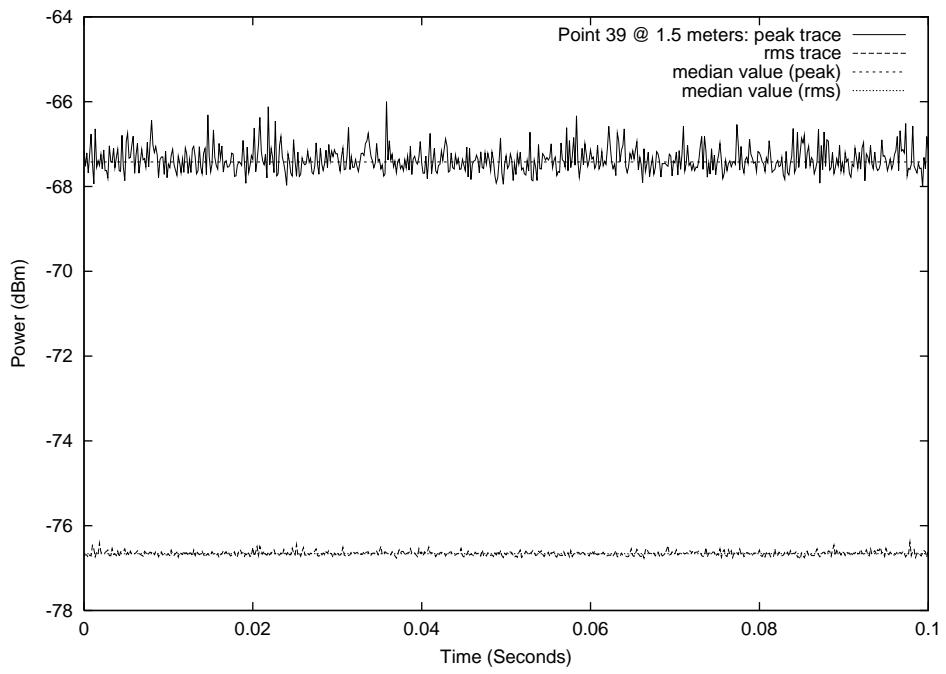


Figure 126: Power at 1.5 meters in location 39.

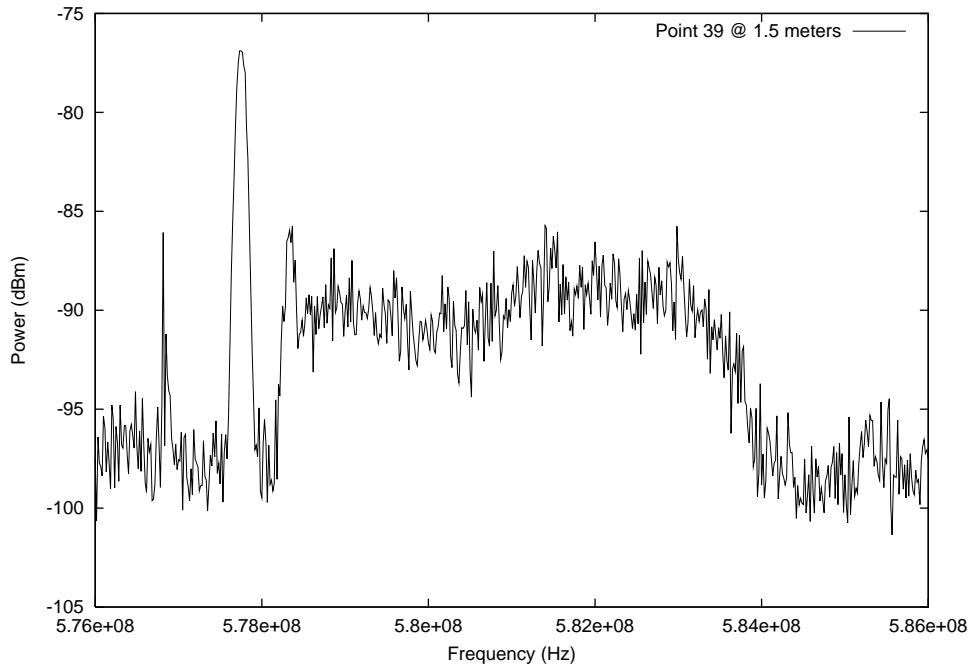


Figure 127: DTV envelope at 1.5 meters in location 39.

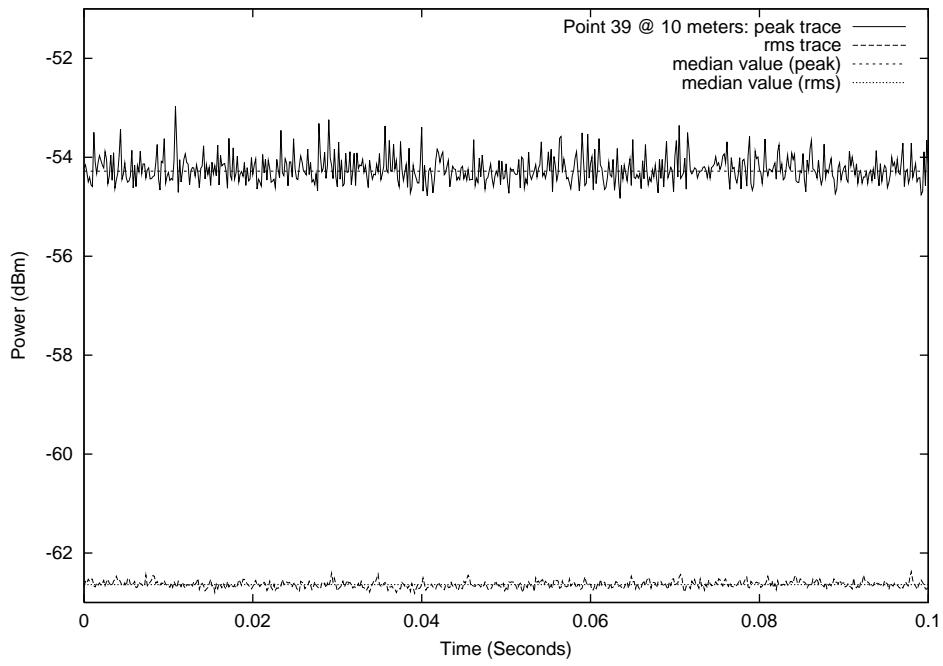


Figure 128: Power at 10 meters in location 39.

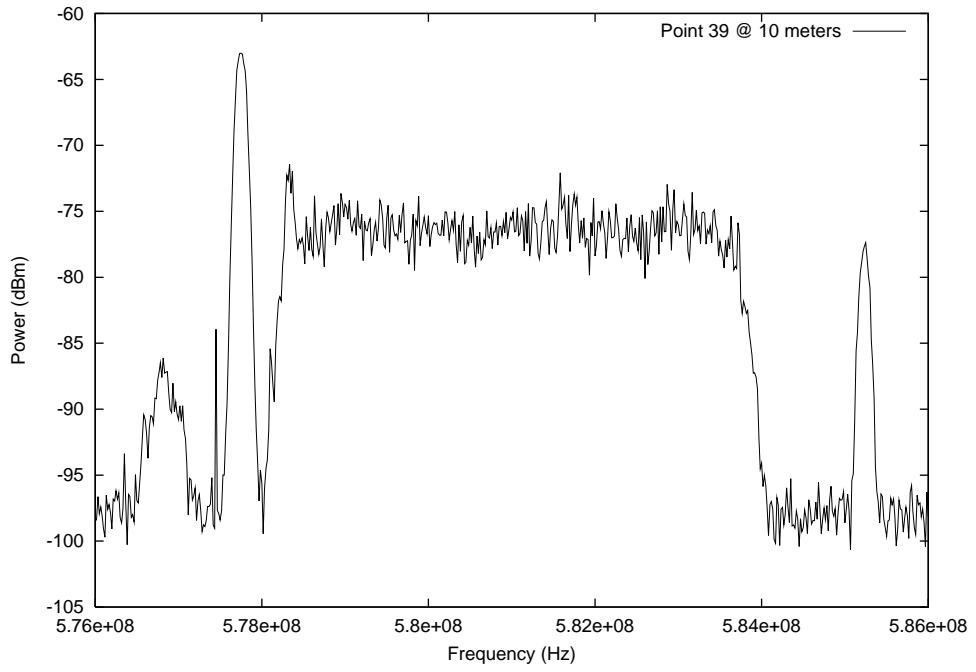


Figure 129: DTV envelope at 10 meters in location 39.

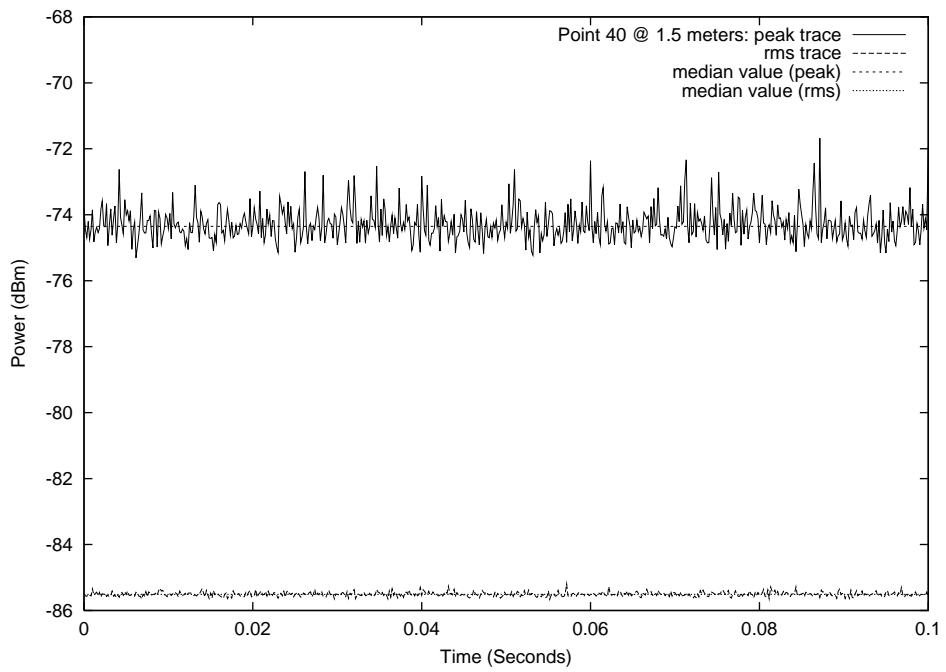


Figure 130: Power at 1.5 meters in location 40.

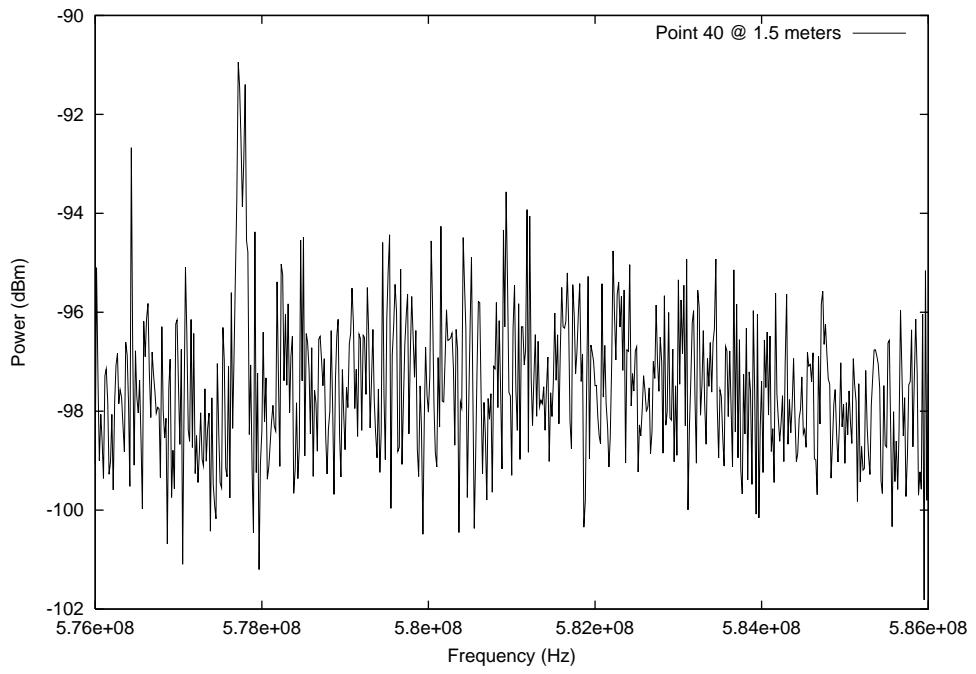


Figure 131: DTV envelope at 1.5 meters in location 40.

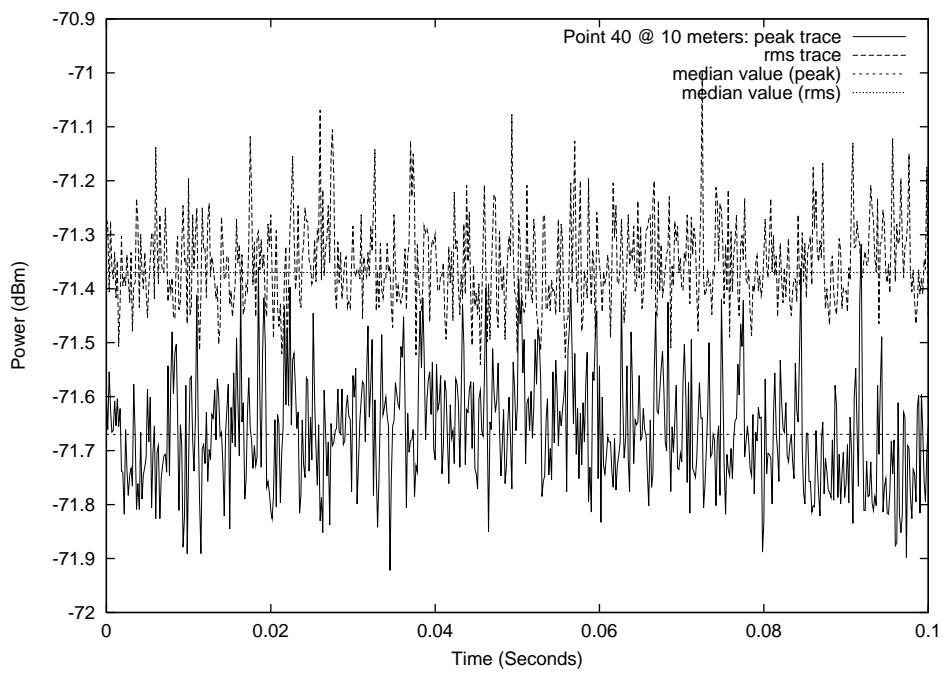


Figure 132: Power at 10 meters in location 40.

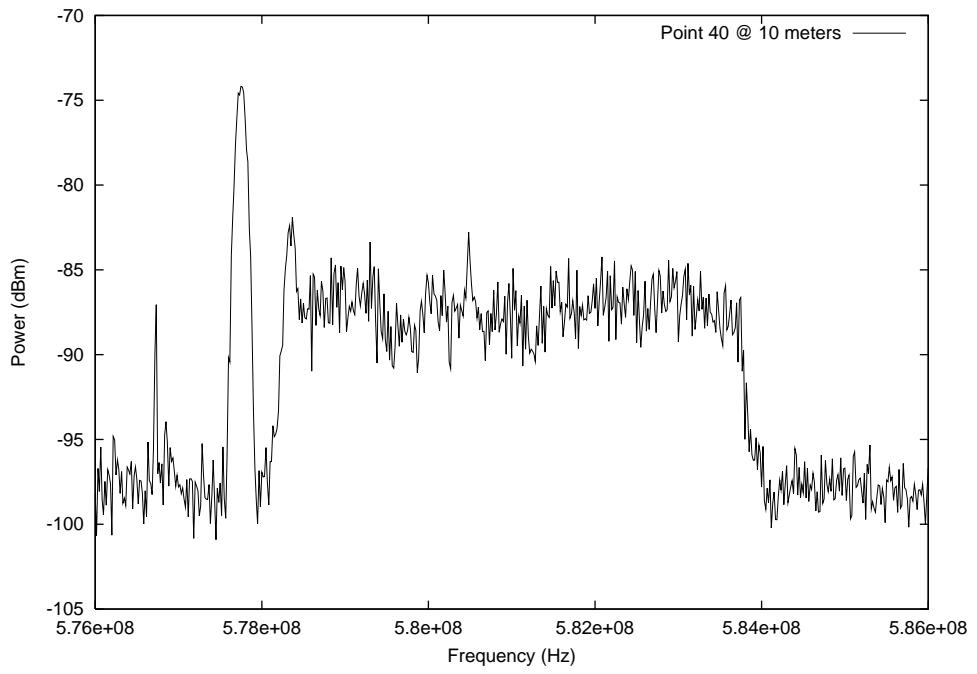


Figure 133: DTV envelope at 10 meters in location 40.

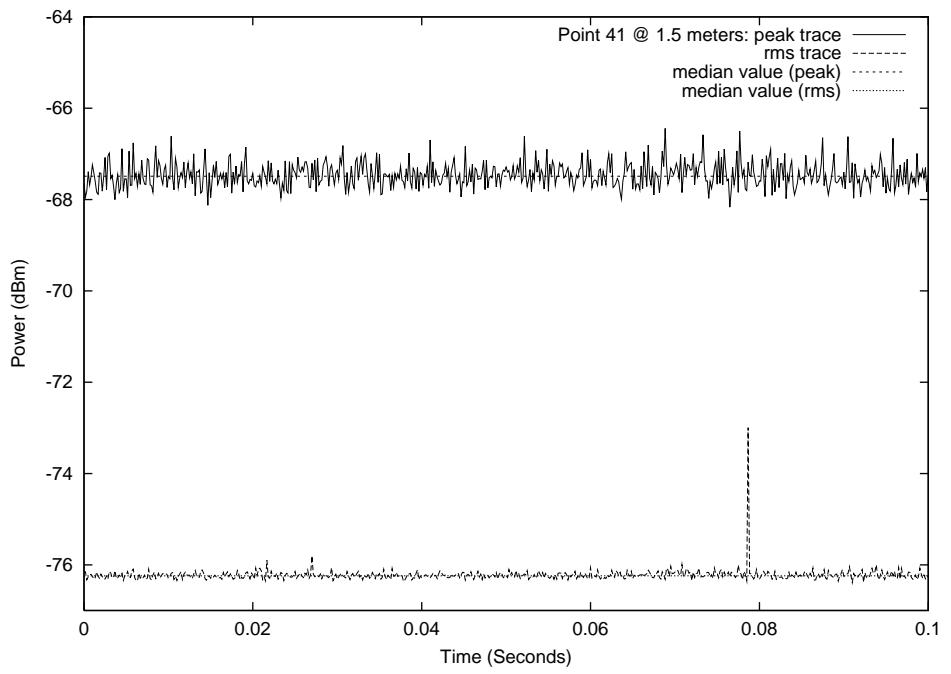


Figure 134: Power at 1.5 meters in location 41.

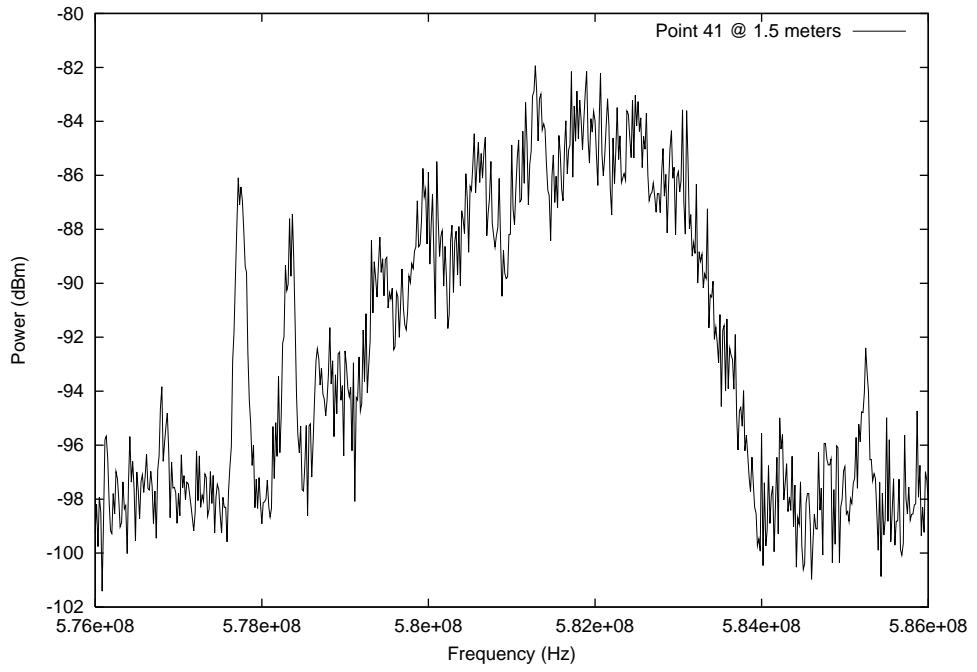


Figure 135: DTV envelope at 1.5 meters in location 41.

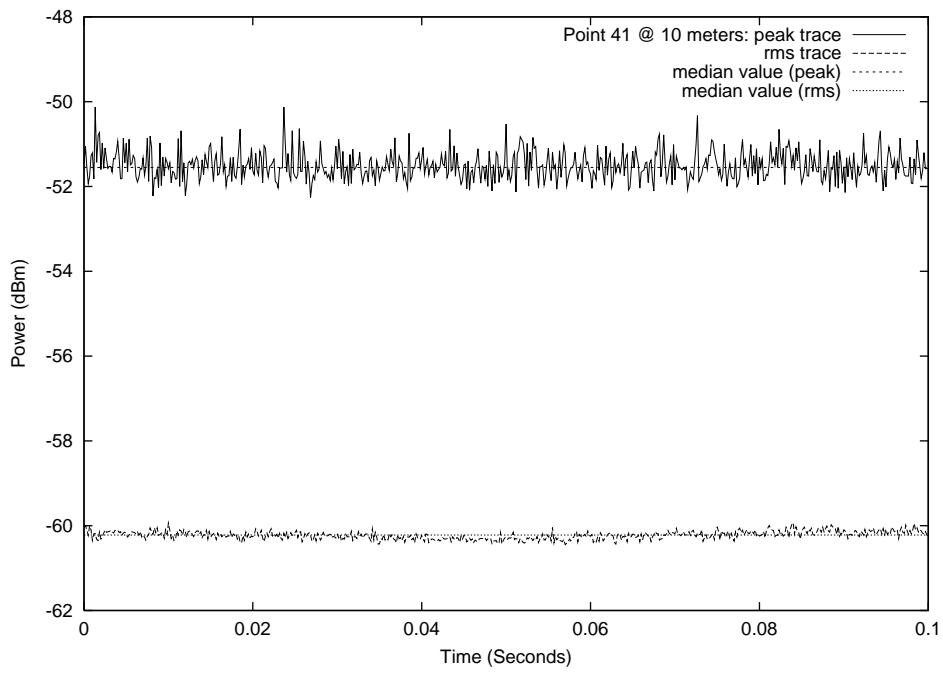


Figure 136: Power at 10 meters in location 41.

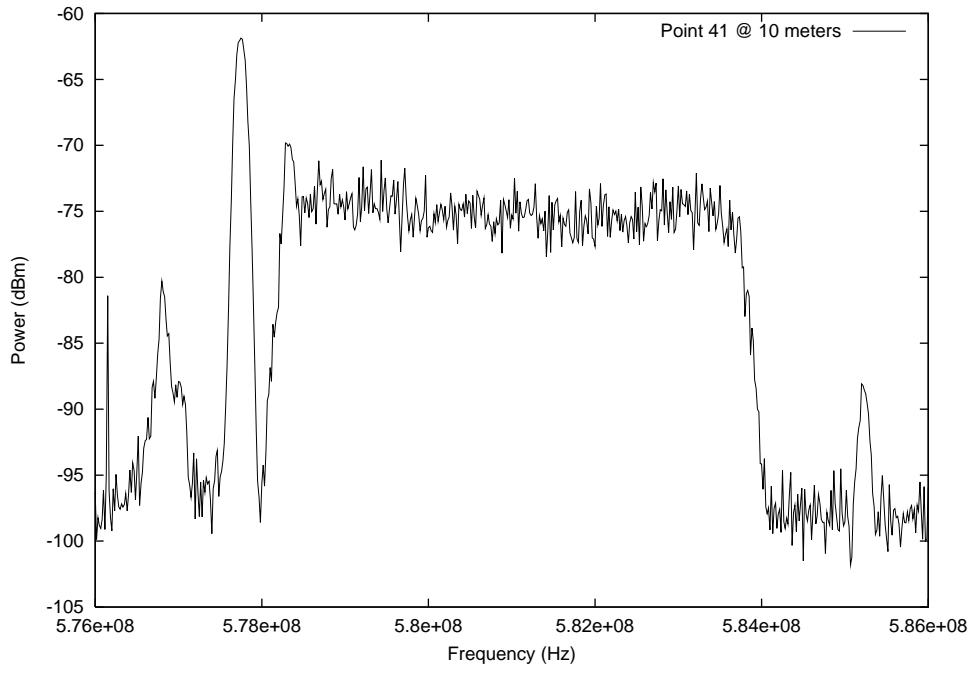


Figure 137: DTV envelope at 10 meters in location 41.

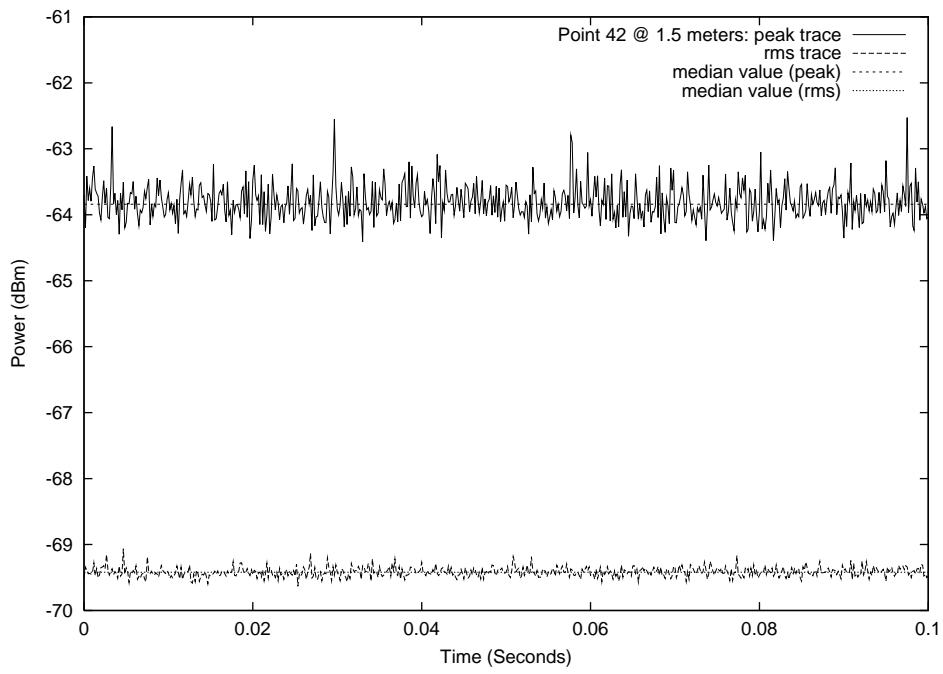


Figure 138: Power at 1.5 meters in location 42.

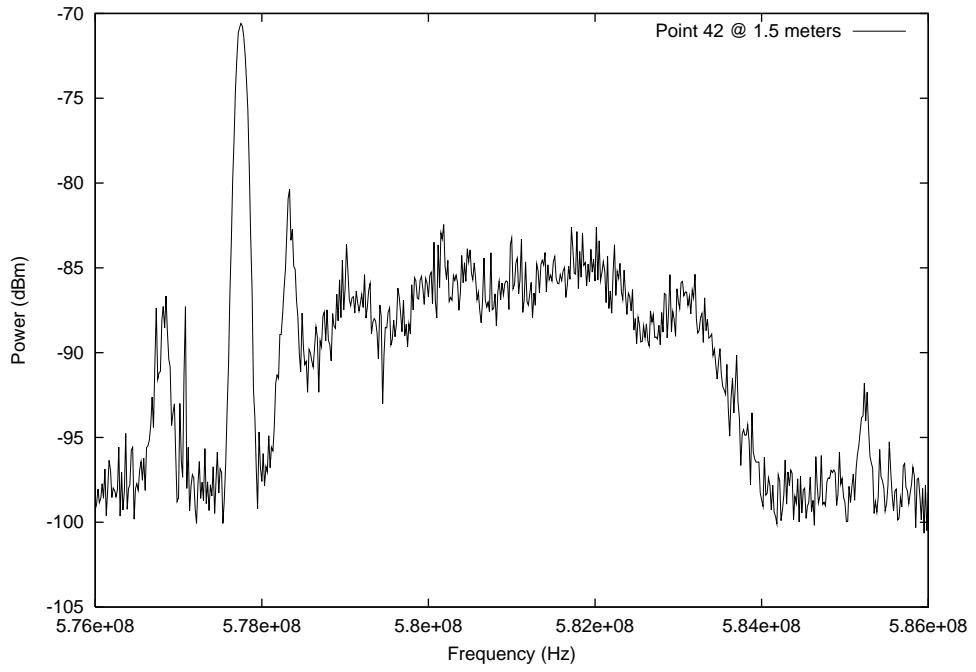


Figure 139: DTV envelope at 1.5 meters in location 42.

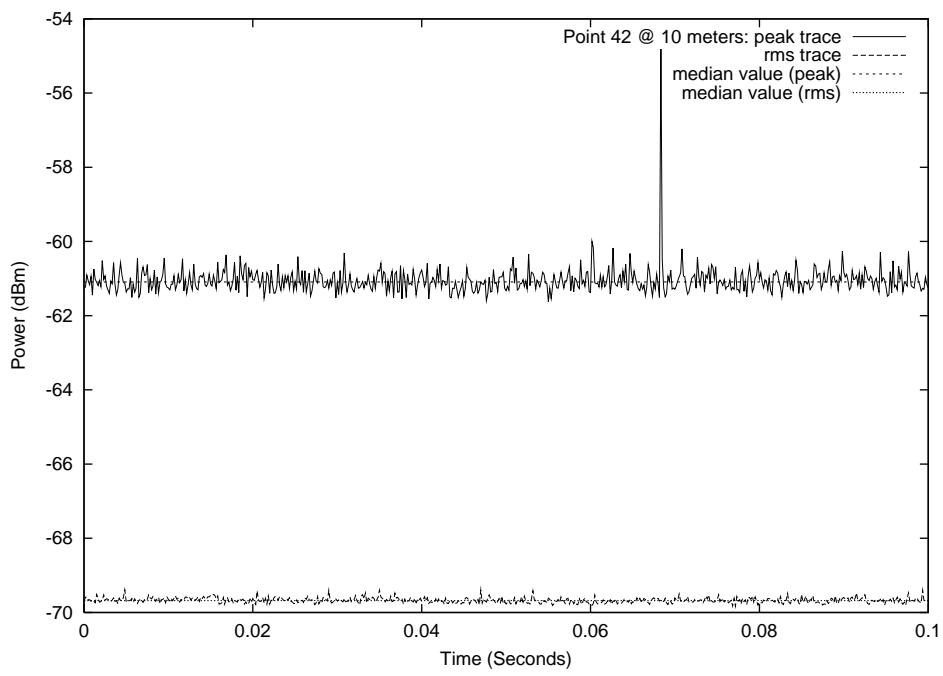


Figure 140: Power at 10 meters in location 42.

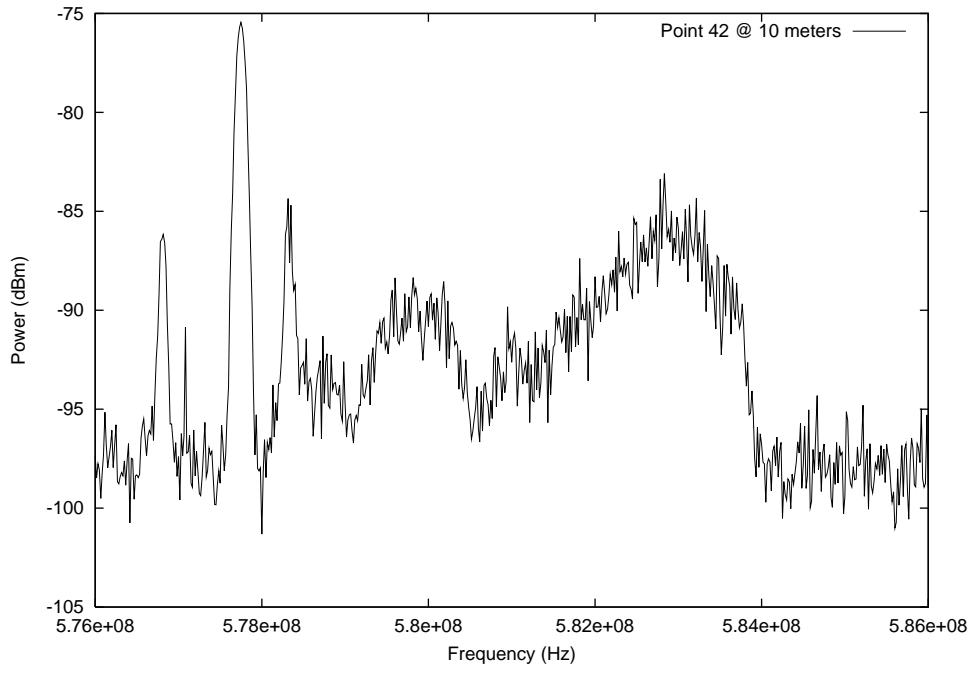


Figure 141: DTV envelope at 10 meters in location 42.