Appendix A

Smoothed data – Compressed 100 - X & Y Values (Hz)									
Distance		Markers							
		4mm	6.4mm	9.5mm	12.7mm	14mm	15.9mm	19mm	25.4mm
1.5m	X	17.40	10.00	24.20	6.50	7.80	19.10	18.80	
	Y	6.00	10.00	8.10	10.00	6.00	9.50	4.40	
2m	X	14.60	15.20	24.60	16.60	2.50	18.40	3.60	10.00
	Y	6.00	6.60	7.30	2.50	3.70	8.60	6.90	10.00
2.5m	X	10.00	20.20	10.00	10.00	20.90	21.00	20.70	11.20
	Y	16.80	24.10	10.00	10.00	18.80	19.40	18.30	17.50
3m	X	15.00	18.20	19.70	10.00	19.70	10.00	15.20	20.00
	Y	5.90	13.40	25.00	10.00	13.20	10.00	10.00	13.70
3.5m	X	11.80	9.40	19.40	10.00	3.00	20.10	10.00	15.60
	Y	2.40	6.10	12.30	10.00	10.00	11.60	10.00	10.50
4m	X	6.20	10.00	19.50	20.20	20.30	10.00	6.90	20.60
	Y	10.00	10.00	25.60	12.60	15.40	10.00	10.70	10.40
4.5m	X	3.00	16.20	20.30	12.00	21.10	21.00	10.00	2.30
	Y	2.70	15.60	18.50	24.10	19.60	19.40	10.00	2.90
5m	X		7.60	15.10	10.00	19.10	2.20	6.80	19.80
	Y		3.00	6.10	10.00	10.70	25.90	2.60	11.30
5.5m	X		7.70	18.20	8.20	20.20	20.60	20.70	10.00
	Y		10.00	6.70	12.50	14.20	15.00	25.00	10.00
6m	X		10.00	12.10	17.50	18.00	19.10	19.50	18.80
	Y		10.00	3.10	7.80	6.40	11.30	10.20	3.40
6.5m	X			16.60	19.80	19.70	10.00	20.70	20.50
	Y			11.00	2.30	8.20	10.00	18.90	10.00
7m	X			3.10	2.10	24.20	19.70	19.90	20.50
	Y			4.70	9.20	10.00	12.80	12.50	24.80
7.5m	X			6.90	10.00	10.00	17.50	18.40	10.00
	Y			10.00	10.00	10.00	3.20	2.40	4.30
8m	X			3.20	11.80	13.80	15.80	17.10	19.20
	Y			2.60	5.20	6.50	5.00	9.90	12.50

Smoothed data – Compressed 75 - X & Y Values (Hz)									
Distance		Markers							
		4mm	6.4mm	9.5mm	12.7mm	14mm	15.9mm	19mm	25.4mm
1.5m	X	16.20	10.00	17.90	7.80	6.50	18.30	13.10	
	Y	6.30	10.00	7.80	7.08	7.30	8.80	7.20	
2m	X	17.40	19.20	19.20	18.80	10.00	24.10	2.50	24.50
	Y	4.30	10.40	10.40	10.00	10.00	9.50	9.20	6.00
2.5m	X	10.00	12.40	15.40	10.00	10.00	15.20	10.00	9.90
	Y	10.00	4.60	10.00	10.00	10.00	5.90	10.00	11.60
3m	X	11.90	5.80	5.70	19.40	19.90	5.80	10.00	20.00
	Y	7.90	15.20	17.20	17.90	16.20	10.00	10.00	16.80
3.5m	X	8.80	3.50	18.80	1.90	10.00	24.30	10.00	10.00
	Y	5.80	6.60	11.90	13.00	2.90	15.20	10.00	10.00
4m	X	8.40	18.20	20.10	23.30	20.00	2.40	10.00	20.70
	Y	10.00	7.40	14.70	16.40	10.00	10.00	10.00	16.20
4.5m	X	10.00	8.60	16.20	10.00	18.30	18.70	10.00	10.00
	Y	10.00	2.00	7.20	10.50	8.60	12.50	12.60	10.00
5m	X		2.10	12.80	24.30	18.30	5.70	2.60	19.40
	Y		5.70	10.00	16.60	16.60	15.40	10.00	17.40
5.5m	X		10.00	7.30	10.90	11.20	14.60	15.50	10.00
	Y		10.00	3.20	3.50	3.00	10.00	2.10	10.00
6m	X		10.00	5.00	15.60	16.70	17.00	10.00	10.00
	Y		10.00	3.00	5.30	6.10	7.00	10.00	10.00
6.5m	X			14.50	8.30	18.20	19.30	23.80	19.90
	Y			11.30	12.10	6.00	10.00	18.20	10.00
7m	X			10.00	3.40	24.50	19.10	19.90	20.50
	Y			10.00	13.00	24.90	17.40	17.70	18.60
7.5m	X			4.40	12.10	9.40	15.40	16.40	5.40
	Y			10.00	2.30	4.60	7.50	8.90	10.70
8m	X			2.50	8.50	8.80	10.00	15.10	17.80
	Y			2.10	10.00	3.50	10.00	6.00	6.70

Difference between smoothed data – Compressed 75 & 100 (Hz)									
Distance		Markers							
		4mm	6.4mm	9.5mm	12.7mm	14mm	15.9mm	19mm	25.4mm
1.5m	X	1.20	0.00	6.30	1.30	1.30	0.80	5.70	
	Y	0.30	0.00	0.30	2.92	1.30	0.70	2.80	
2m	X	2.80	4.00	5.40	2.20	7.50	5.70	1.10	14.50
	Y	1.70	3.80	3.10	7.50	6.30	0.90	2.30	4.00
2.5m	X	0.00	7.80	5.40	0.00	10.90	5.80	10.70	1.30
	Y	6.80	19.50	0.00	0.00	8.80	13.50	8.30	5.90
3m	X	3.10	12.40	14.00	9.40	0.20	4.20	5.20	0.00
	Y	2.00	1.80	7.80	7.90	3.00	0.00	0.00	3.10
3.5m	X	3.00	5.90	0.60	8.10	7.10	4.20	0.00	5.60
	Y	3.40	0.50	0.40	3.00	7.00	3.60	0.00	0.50
4m	X	0.00	8.20	0.60	3.10	0.30	2.40	3.10	0.10
	Y	0.00	2.60	10.90	3.80	5.40	0.00	0.70	5.80
4.5m	X	7.00	7.60	4.10	2.00	2.80	2.30	3.10	7.70
	Y	7.30	13.60	11.30	13.60	11.00	6.90	2.60	7.10
5m	X		5.50	2.30	14.30	0.80	3.50	4.20	0.40
	Y		2.70	3.90	6.60	5.90	10.50	7.40	6.10
5.5m	X		2.30	10.90	2.70	9.00	5.00	5.20	0.00
	Y		0.00	3.50	9.00	11.20	14.00	22.90	0.00
6m	X		0.00	7.10	1.90	1.30	2.10	9.50	8.80
	Y		0.00	0.10	2.50	0.30	4.30	0.20	6.60
6.5m	X			2.10	11.50	1.50	9.30	3.10	0.60
	Y			0.30	9.80	2.20	0.00	0.70	0.00
7m	X			6.90	1.30	0.30	0.60	0.00	0.00
	Y			5.30	3.80	14.90	4.60	5.20	6.20
7.5m	X			2.50	2.10	0.60	2.10	2.00	4.60
	Y			0.00	7.70	5.40	4.30	6.50	6.40
8m	X			0.70	3.30	5.00	5.80	2.00	1.40
	Y			0.50	4.80	3.00	5.00	3.90	5.80