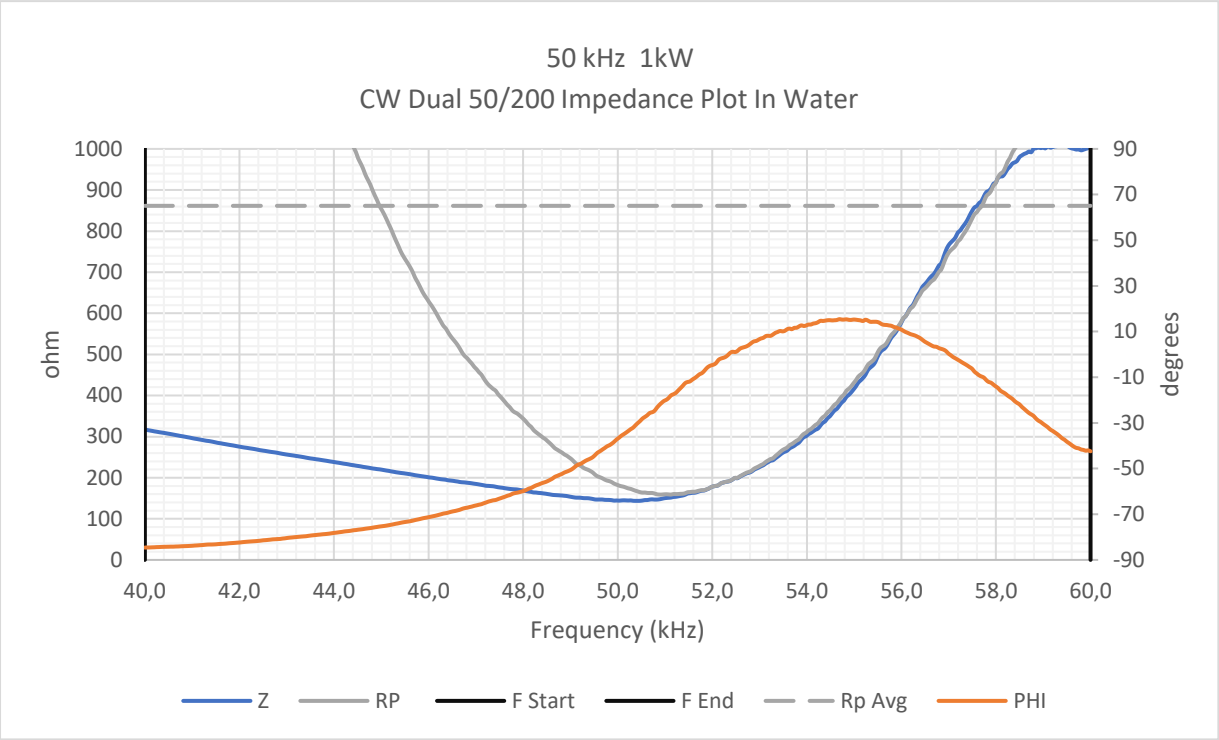
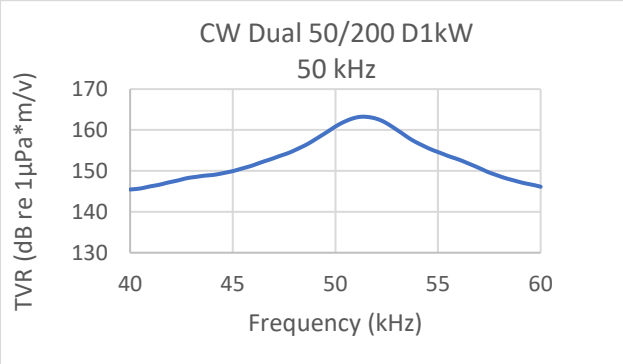
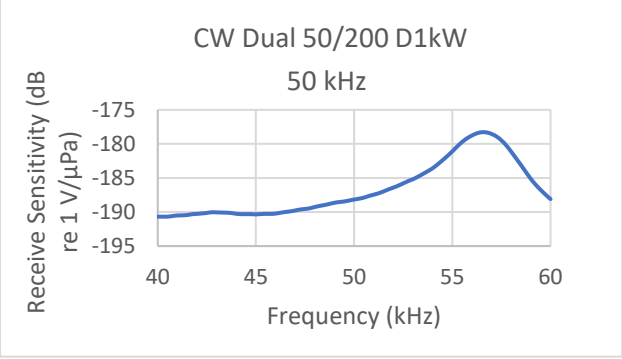
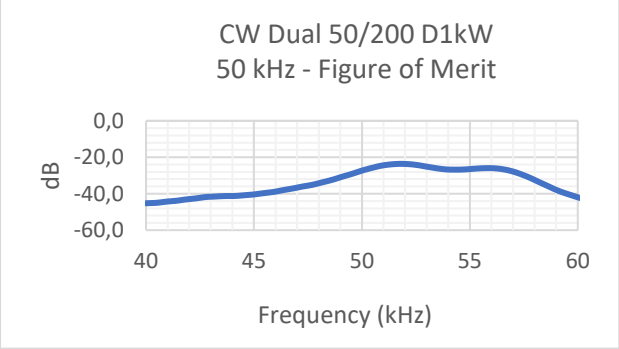
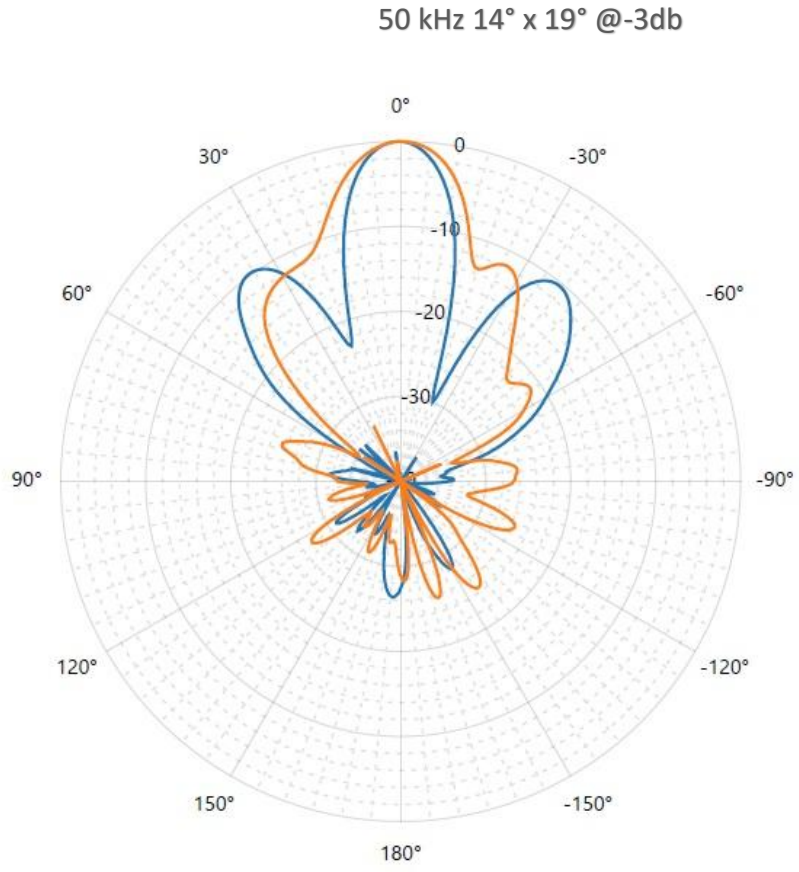
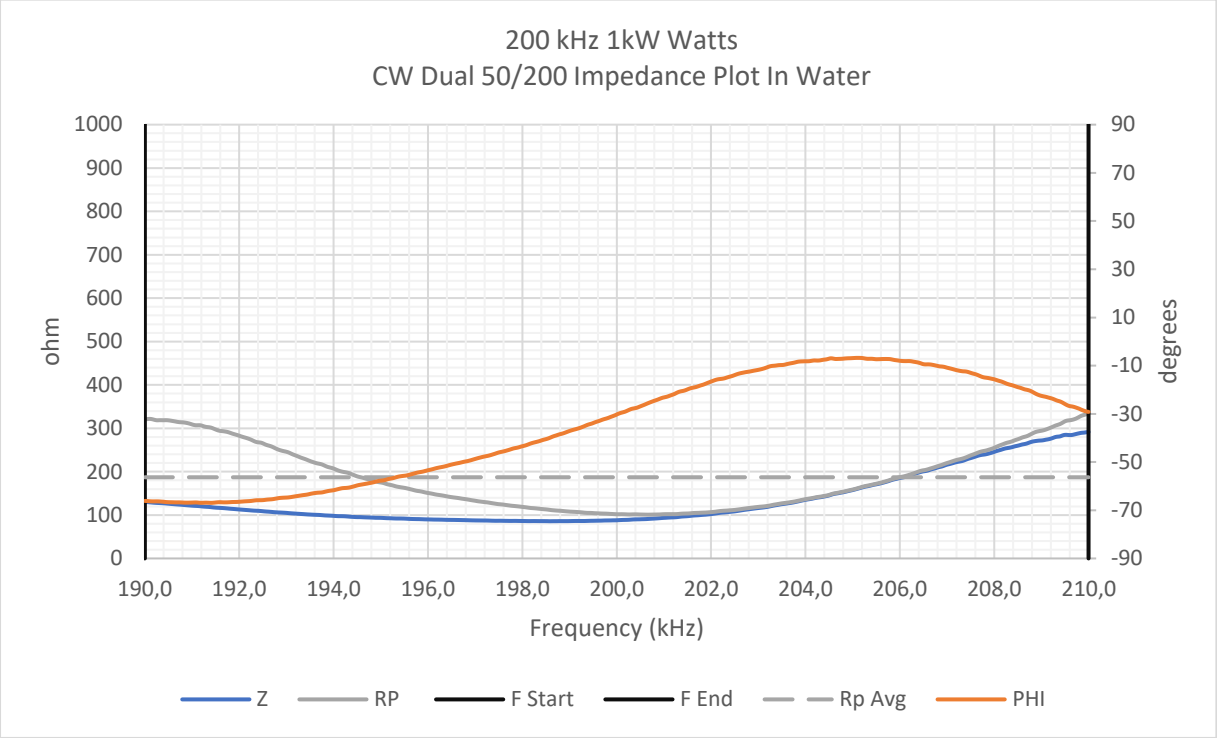

50 kHz 1kW
CW Dual 50/200 Impedance Plot In Water
ohm
degrees
Frequency (kHz)
Z
RP
F Start
F End
Rp Avg
PHI

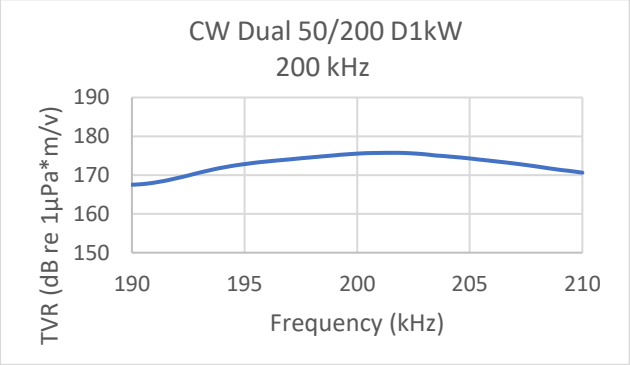

CW Dual 50/200 D1kW
50 kHz
TVR (dB re 1µPa*m/v)
Frequency (kHz)

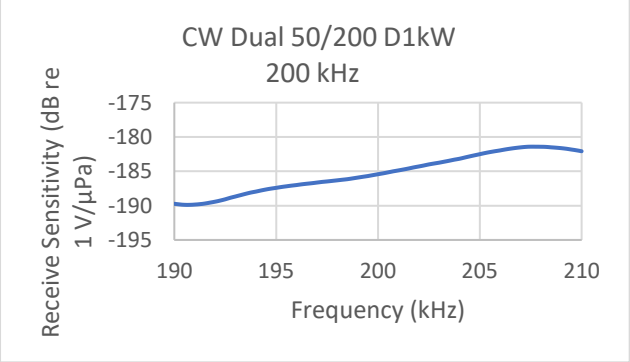

CW Dual 50/200 D1kW
50 kHz
Receive Sensitivity (dB re 1 V/µPa)
Frequency (kHz)

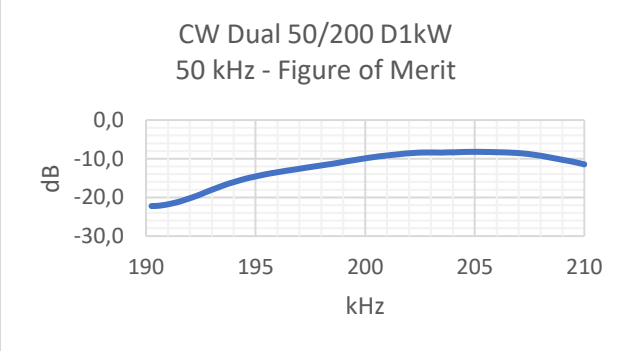

CW Dual 50/200 D1kW
50 kHz - Figure of Merit
dB
Frequency (kHz)

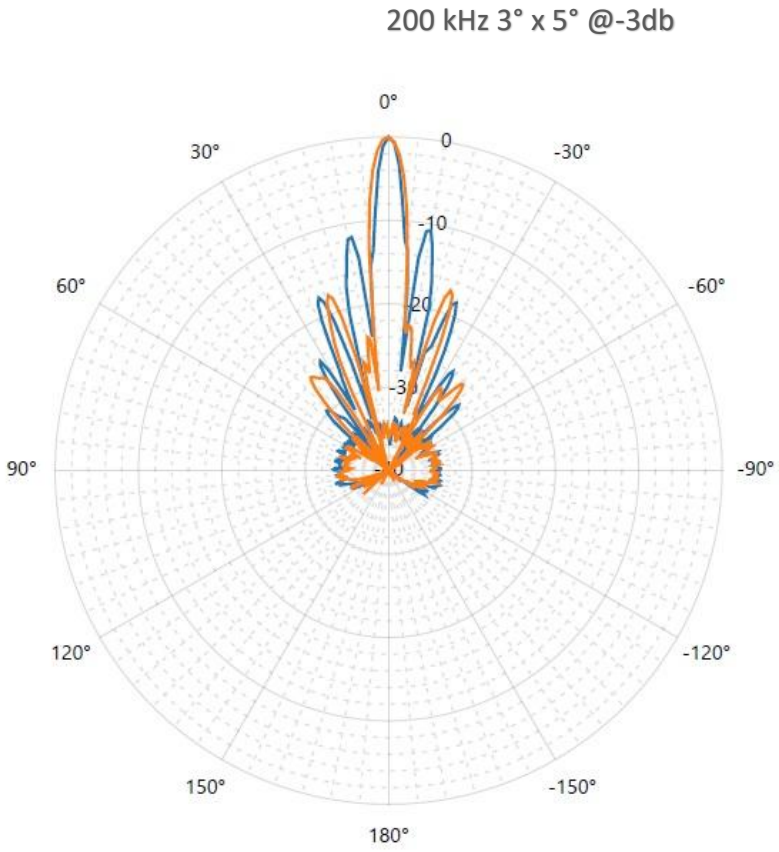

50 kHz 14° x 19° @-3db


200 kHz 1kW Watts
CW Dual 50/200 Impedance Plot In Water
ohm
degrees
1000
900
800
700
600
500
400
300
200
100
0
90
70
50
30
10
-10
-30
-50
-70
-90
190,0
192,0
194,0
196,0
198,0
200,0
202,0
204,0
206,0
208,0
210,0
Frequency (kHz)
Z
RP
F Start
F End
Rp Avg
PHI


CW Dual 50/200 D1kW
200 kHz
TVR (dB re 1µPa*m/v)
190
180
170
160
150
190
195
200
205
210
Frequency (kHz)


CW Dual 50/200 D1kW
200 kHz
Receive Sensitivity (dB re 1 V/µPa)
-175
-180
-185
-190
-195
190
195
200
205
210
Frequency (kHz)


CW Dual 50/200 D1kW
50 kHz - Figure of Merit
dB
0,0
-10,0
-20,0
-30,0
190
195
200
205
210
kHz


200 kHz 3° x 5° @-3db
0°
30°
-30°
60°
-60°
90°
-90°
120°
-120°
150°
-150°
180°
0
-10
-20

Model	ST180D1kW
Sonar type	CW
Frequency	50 -200 kHz
Power	1KW
Beamwidth	50 kHz 14° x 19° @ -3db
	200 kHz 3° x 5° @ -3db
Max Depth	Max Depth Max @50 kHz = 670 m (2,200 ft)
	Max @200 kHz = 305 m (1,000 ft)

Beam diameter vs depth		
Depth	**50 kHz**	**200 kHz**
10 m (33 ft)	2,4 m x 3,4 m (8 ft x 11 ft)	0,5 m x 1 m (1,6 ft x 3 ft)
50 m (164 ft)	12 m x 17 m (39 ft x 56 ft)	2,6 m x 4 m (8,5 ft x 13 ft)
100 m (328 ft)	25 m x 33 m (82 ft x 108 ft)	5 m x 9 m (16 ft x 30 ft)
150 m (492 ft)	37 m x 50 m (121 ft x 164 ft)	8 m x 13 m (26 ft x 43 ft)
300 m (984 ft)	74 m x 100 m (243 ft x 328 ft)	16 m x 26 m (52 ft x 85 ft)
450 m (1476 ft)	110 m x 151 m (361 ft x 495 ft)	24 m x 39 m (79 ft x 128 ft)
600 m (1968 ft)	147 m x 200 m (482 ft x 656 ft)	31 m x 52 m (102 ft x 171 ft
750 m (2461 ft)	184 m x 251 m (604 ft x 823 ft)	39 m x 66 m (128 ft x 217 ft)