

FLASC bore length test

Marballizer (.0684-0.688)

11" x 0.682

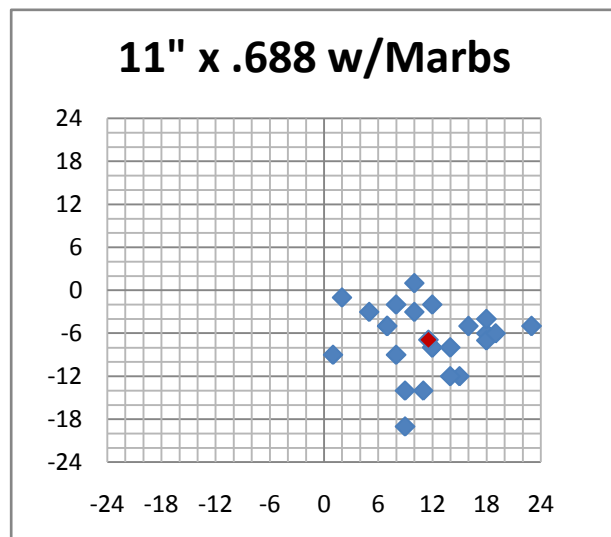
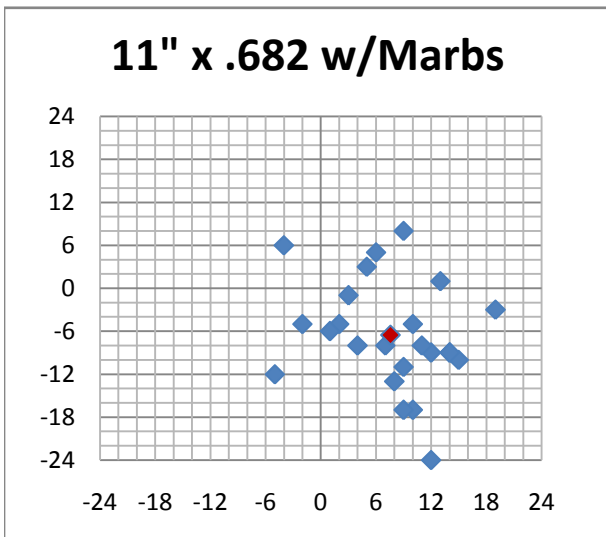
X	Y	Velocity
-4	6	283
-2	-5	283
2	-5	272
9	8	288
10	-17	283
9	-11	275
10	-5	280
12	-9	292
14	-9	290
15	-10	280
13	1	278
14	-9	296
-5	-12	272
1	-6	284
3	-1	272
4	-8	287
6	5	284
5	3	287
7	-8	278
8	-13	279
9	-17	286
11	-8	277
19	-3	283
12	-24	279

Mean 7.583333 -6.54167 282
 StanDev 6.142628 7.666864 6.276249
 Vector 9.824087

11" x 0.688

X	Y	Velocity
2	-1	299
5	-3	287
7	-5	278
7	-5	290
10	1	284
11	-14	296
12	-2	284
12	-8	286
15	-12	286
18	-6	288
18	-7	279
19	-6	283
1	-9	273
8	-2	282
8	-9	280
9	-14	295
9	-19	295
10	-3	277
12	-8	289
14	-12	274
16	-5	276
14	-8	284
18	-4	288
23	-5	278

Mean 11.58333 -6.91667 284.625
 StanDev 5.460663 4.717375 7.112833
 Vector 7.216125

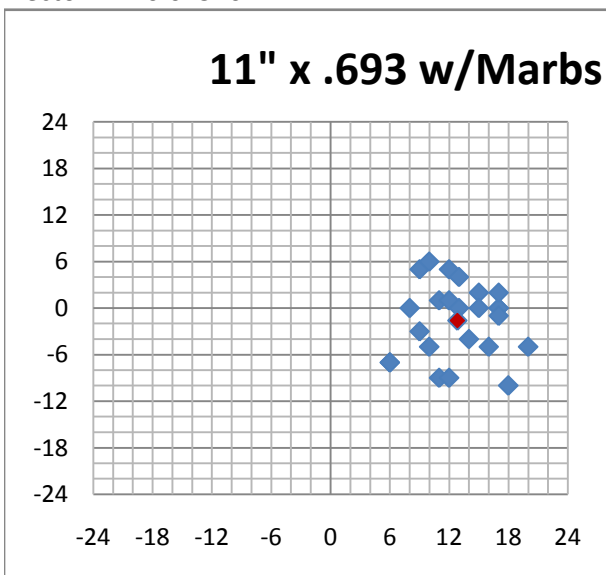


FLASC bore length test

11" x 0.693

X	Y	Velocity
9	-3	288
9	5	286
10	6	299
10	-5	289
11	1	284
12	1	289
12	5	289
13	4	289
13	0	280
17	0	293
17	0	288
18	-10	292
6	-7	282
8	0	284
11	-9	280
12	-9	278
15	2	295
15	0	282
14	-4	275
17	2	283
17	-1	281
16	-5	295
20	-5	299
6	-7	285

Mean 12.83333 -1.625 286.875
StanDev 3.841045 4.707187 6.401851
Vector 6.075461



FLASC bore length test

Marballizer (.0684-0.688)

9" x 0.682

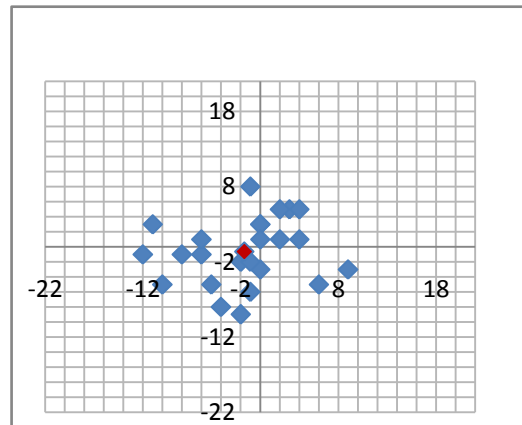
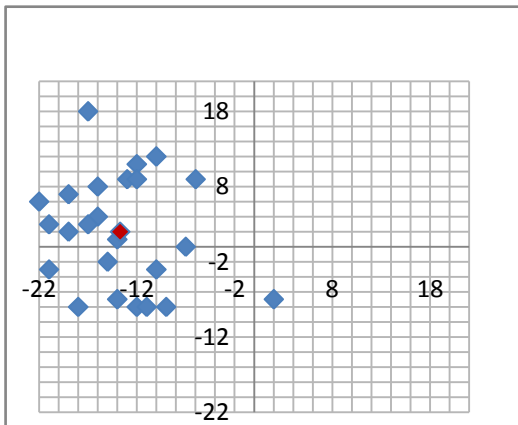
X	Y	Velocity
-14	-7	267
-12	-8	264
-10	-3	273
2	-7	263
-9	-8	279
-7	0	282
-16	4	282
-18	-8	283
-11	-8	277
-19	7	281
-13	9	273
-15	-2	283
-19	2	283
-6	9	284
-10	12	284
-21	3	283
-17	3	267
-22	6	278
-16	8	277
-12	11	275
-12	9	273
-14	1	278
-21	-3	276
-17	18	281

Mean **-13.7083** **2** **275.7273**
 SD **5.520548** **7.518094** **6.419513**
 Vector **9.327282**

9" x 0.688

X	Y	Velocity
-2	-2	268
6	-5	273
-12	-1	263
-6	-1	272
-10	-5	273
-6	1	270
-11	3	280
3	5	267
-4	-8	276
-8	-1	270
0	3	266
0	3	273
4	5	278
-1	8	277
2	5	280
-5	-5	268
0	-3	277
4	1	275
9	-3	271
-1	-2	268
2	1	274
-2	-9	289
-1	-6	272
0	1	278

Mean **-1.625** **-0.625** **273.25**
 SD **5.339048** **4.401704** **5.643388**
 Vector **6.919569**



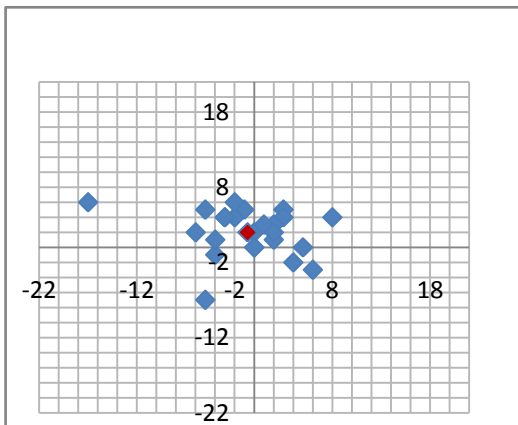
FLASC bore length test

Marballizer (.0684-0.688)

9" x .693

X	Y	Velocity
-3	4	264
-1	5	268
3	5	267
5	0	266
-5	-7	268
8	4	273
-4	-1	263
-4	1	272
-2	4	268
-3	4	268
0	2	266
-17	6	277
0	0	246
6	-3	270
-5	5	276
3	4	264
-2	6	274
2	3	267
1	3	262
0	0	265
2	1	271
2	2	261
-6	2	266
4	-2	264

Mean **-0.66667** **2** **266.9167**
SD **5.087638** **3.134659** **6.156768**
Vector **5.975797**



FLASC bore length test

7" x 0.682

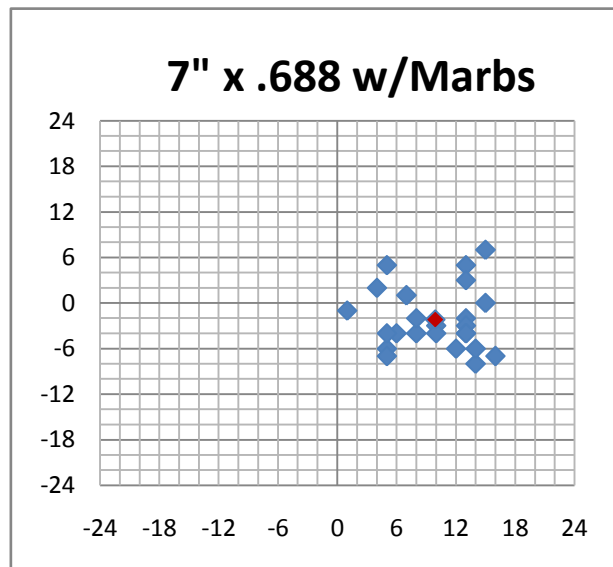
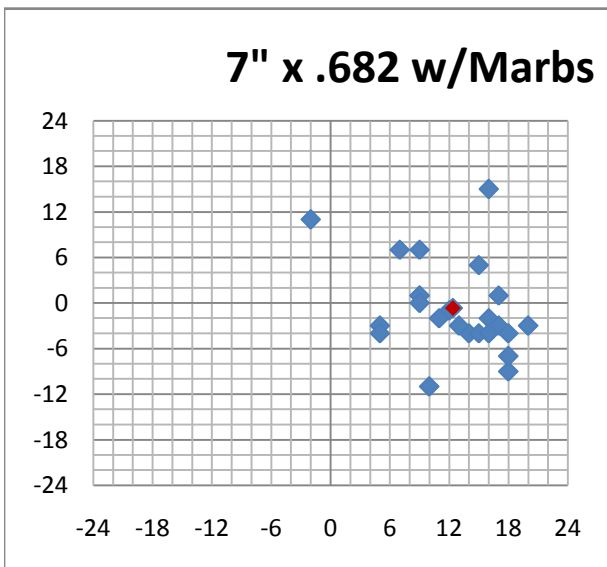
X	Y	Velocity
-2	11	270
5	-3	271
9	7	267
9	1	267
10	-11	283
12	-1	273
14	-4	282
16	15	271
16	-2	274
17	1	270
17	-3	277
18	-9	278
5	-4	270
7	7	279
9	1	289
9	0	276
11	-2	276
13	-3	277
15	5	286
15	-4	275
16	-4	279
18	-4	276
18	-7	277
20	-3	274

Mean **12.375** **-0.66667** 275.7083
 StanDev 5.314562 6.033722 5.575405
 Vector 8.040545

7" x 0.688

X	Y	Velocity
4	2	289
5	-6	288
6	-4	288
7	1	278
8	-4	280
13	-2	274
13	-3	278
13	-4	277
13	-4	272
14	-8	292
15	7	282
15	0	277
1	-1	268
5	5	269
5	-4	282
5	-7	277
8	-2	270
10	-3	281
10	-4	280
12	-6	272
13	5	277
13	3	272
14	-6	281
16	-7	275

Mean **9.916667** **-2.16667** 278.2917
 StanDev 4.302847 4.13539 6.443596
 Vector 5.967909

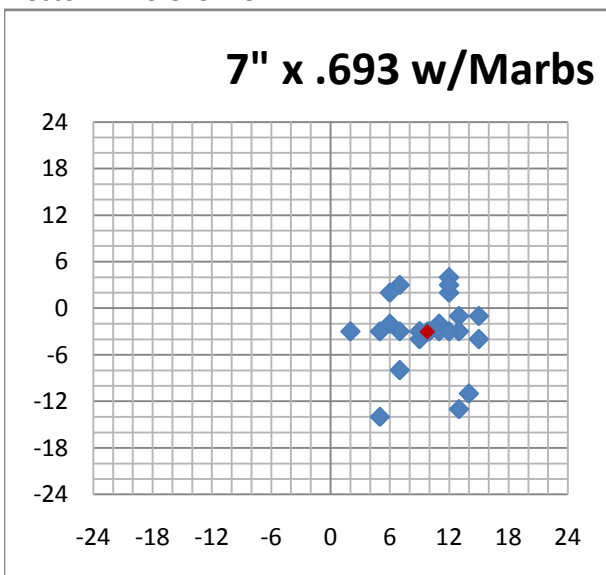


FLASC bore length test

7" x 0.693

X	Y	Velocity
7	-3	280
7	-8	267
9	-4	285
12	4	284
12	2	279
12	3	281
13	-1	282
13	-3	282
13	-13	270
14	-11	271
15	-1	271
15	-4	272
2	-3	279
5	-14	291
5	-3	270
6	2	277
6	-2	270
9	-3	277
9	-3	277
10	-3	278
11	-2	272
11	-3	272
12	-3	279
7	3	274

Mean 9.791667 -3.04167 276.6667
 StanDev 3.526042 4.629576 5.887841
 Vector 5.819445



FLASC bore length test

Marballizer (.0684-0.688)

5" x 0.682

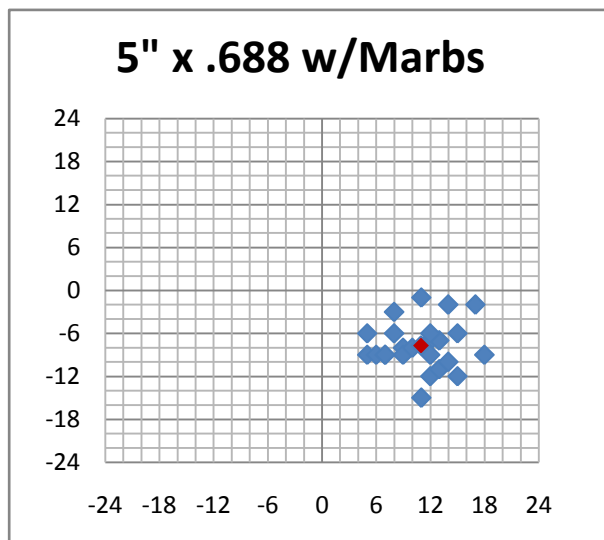
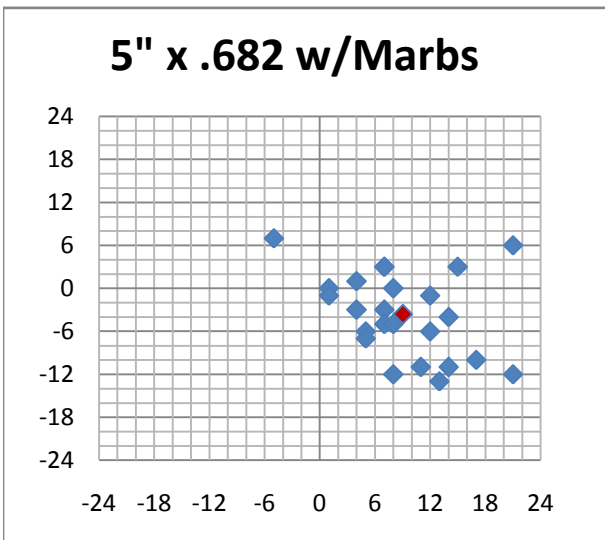
X	Y	Velocity
1	0	263
4	-3	266
7	3	265
7	3	265
7	-3	272
7	-5	265
8	0	267
8	-5	271
8	-12	270
11	-11	270
13	-13	270
21	-12	278
-5	7	268
1	-1	264
4	1	267
5	-6	273
5	-7	267
12	-1	261
12	-6	268
14	-4	272
14	-11	267
15	3	263
17	-10	272
21	6	269

Mean **9.041667** **-3.625** 268.0417
 StanDev 6.258762 5.911025 3.872749
 Vector 8.608851

5" x 0.688

X	Y	Velocity
5	-9	260
6	-9	270
7	-9	260
8	-3	267
8	-6	266
9	-8	263
9	-9	264
10	-8	266
12	-7	269
12	-9	263
13	-7	267
18	-9	258
5	-6	267
7	-9	265
11	-1	263
11	-15	265
12	-6	261
12	-12	257
13	-11	262
14	-2	262
14	-10	270
15	-6	270
15	-12	262
17	-2	268

Mean **10.95833** **-7.70833** 264.375
 StanDev 3.629339 3.381268 3.751087
 Vector 4.96035

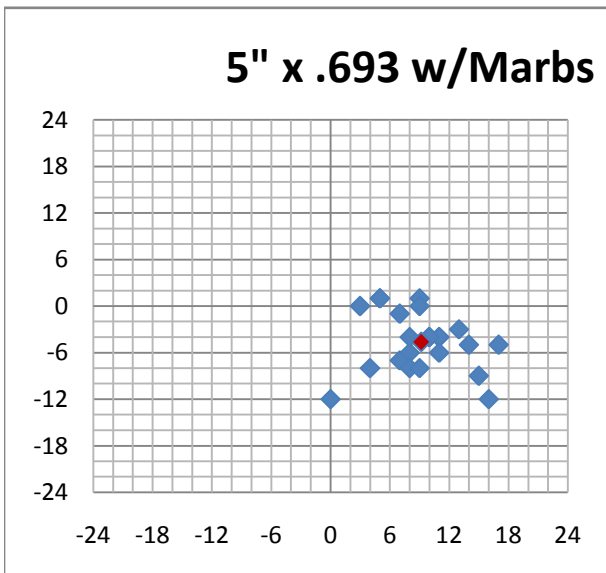


FLASC bore length test

5" x 0.693

X	Y	Velocity
0	-12	261
3	0	266
4	-8	265
5	1	268
7	-7	267
8	-6	259
9	1	265
10	-4	273
10	-4	259
11	-4	261
11	-4	274
16	-12	255
5	1	256
7	-1	260
8	-4	257
8	-8	259
9	0	262
9	-8	255
10	-4	256
11	-6	274
13	-3	264
14	-5	258
15	-9	261
17	-5	278

Mean 9.166667 -4.625 263.0417
 StanDev 4.114309 3.774197 6.537379
 Vector 5.583198



FLASC bore length test

Marballizer (.0684-0.688)

2.5" bores were all shot with a 3" .688 ported tip

2.5" x 0.682

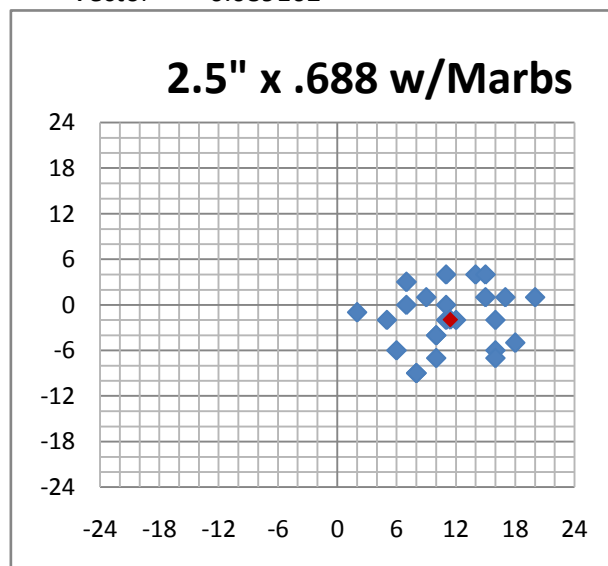
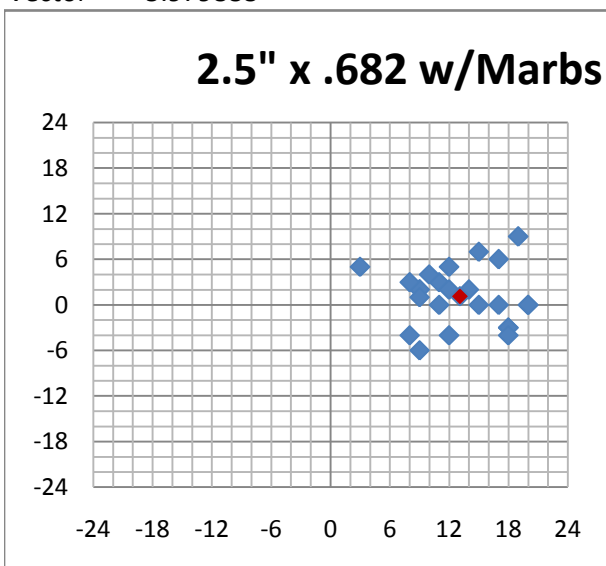
X	Y	Velocity
8	-4	268
9	2	268
9	2	259
11	3	272
11	0	263
12	5	269
14	2	269
15	0	280
17	0	266
18	-3	275
18	-3	265
20	0	264
3	5	275
8	3	262
9	1	267
9	-6	273
10	4	260
12	2	276
12	-4	268
15	7	271
17	6	265
18	-4	278
19	9	271
20	0	275

Mean	13.08333	1.125	269.125
StanDev	4.586527	3.837034	5.63616
Vector	5.979888		

2.5" x 0.688

X	Y	Velocity
5	-2	261
6	-6	273
7	0	261
8	-9	259
8	-9	261
9	1	263
10	-4	266
10	-4	275
11	4	273
11	-2	261
14	4	263
18	-5	264
2	-1	258
7	3	261
10	-7	265
11	0	261
12	-2	261
15	4	256
15	1	265
16	-2	258
16	-6	258
16	-7	264
17	1	276
20	1	261

Mean	11.41667	-1.95833	263.5
StanDev	4.558	4.03764	5.508886
Vector	6.089162		

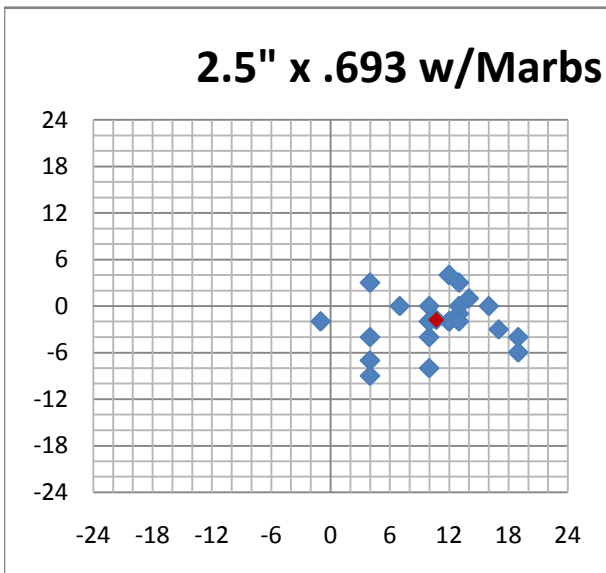


FLASC bore length test

2.5" x 0.693

X	Y	Velocity
4	3	255
4	-7	261
4	-9	262
7	0	262
10	-4	256
10	-8	270
12	4	262
12	4	267
12	-2	268
12	-2	264
13	0	258
13	-1	256
-1	-2	268
4	-4	260
10	0	261
10	-2	270
10	-2	254
13	3	271
13	-2	253
14	1	259
16	0	258
17	-3	260
19	-4	261
19	-6	259

Mean 10.70833 -1.79167 261.4583
StanDev 5.008507 3.526042 5.233497
Vector 6.125203



FLASC bore length test

Marballizer (.0684-0.688)

12" x 0.693

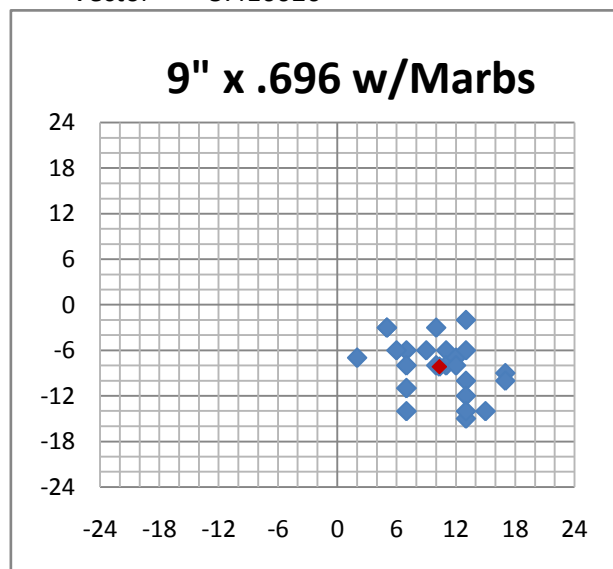
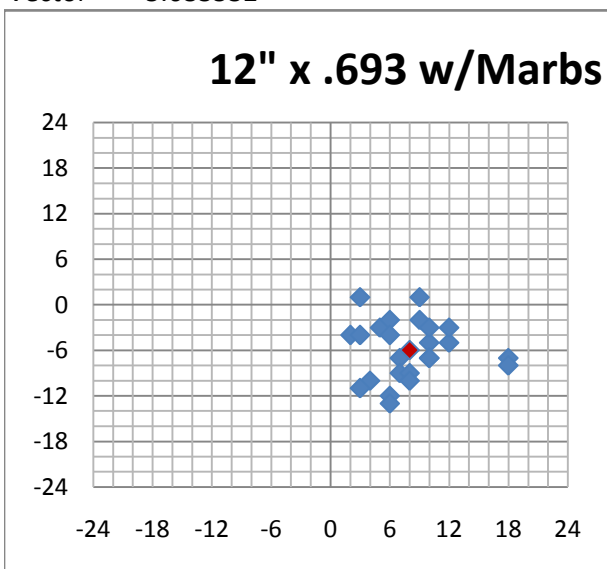
X	Y	Velocity
2	-4	260
3	1	277
4	-10	267
5	-3	276
6	-12	272
7	-7	283
9	1	272
9	-2	298
10	-5	274
12	-5	285
18	-7	266
18	-8	268
3	-4	270
3	-11	283
6	-2	268
6	-4	284
6	-13	273
7	-9	281
8	-9	272
8	-10	263
10	-3	275
10	-7	276
10	-7	267
12	-3	285

Mean **8** **-5.95833** 274.7917
 StanDev 4.191088 3.838922 8.627454
 Vector 5.683532

9" x 0.696

X	Y	Velocity
2	-7	266
5	-3	260
7	-6	265
7	-8	267
7	-11	265
7	-14	272
10	-3	253
13	-2	263
13	-10	254
13	-15	263
15	-14	262
17	-9	257
5	-3	256
6	-6	265
9	-6	265
10	-8	254
11	-6	261
11	-8	266
12	-7	257
12	-8	257
13	-6	259
13	-12	262
13	-14	261
17	-10	261

10.33333 **-8.16667** 261.2917
 StanDev 3.908371 3.749396 4.750095
 Vector 5.416026



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