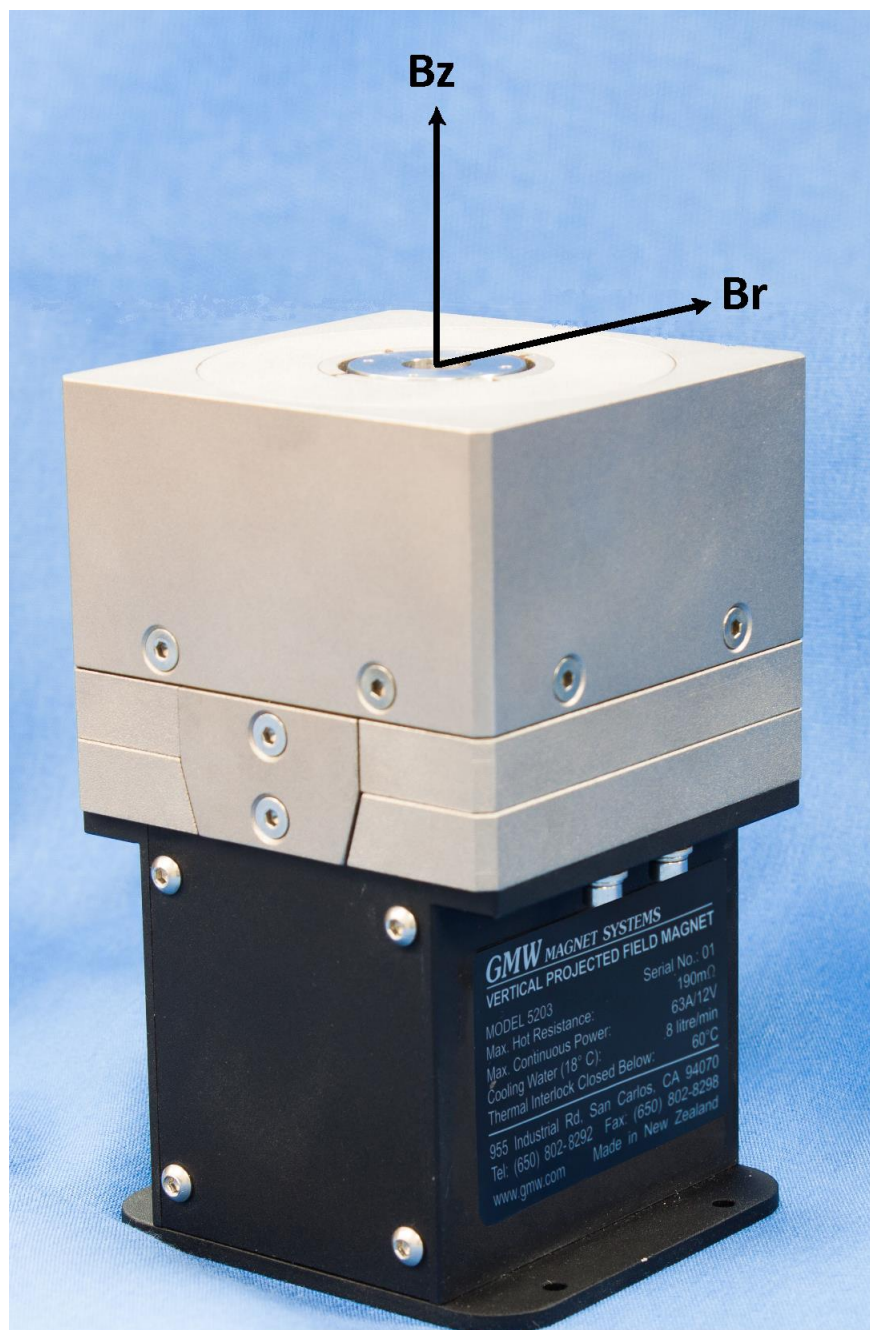


Field Performance at Peak Excitation of 100A



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



Pole A - standard



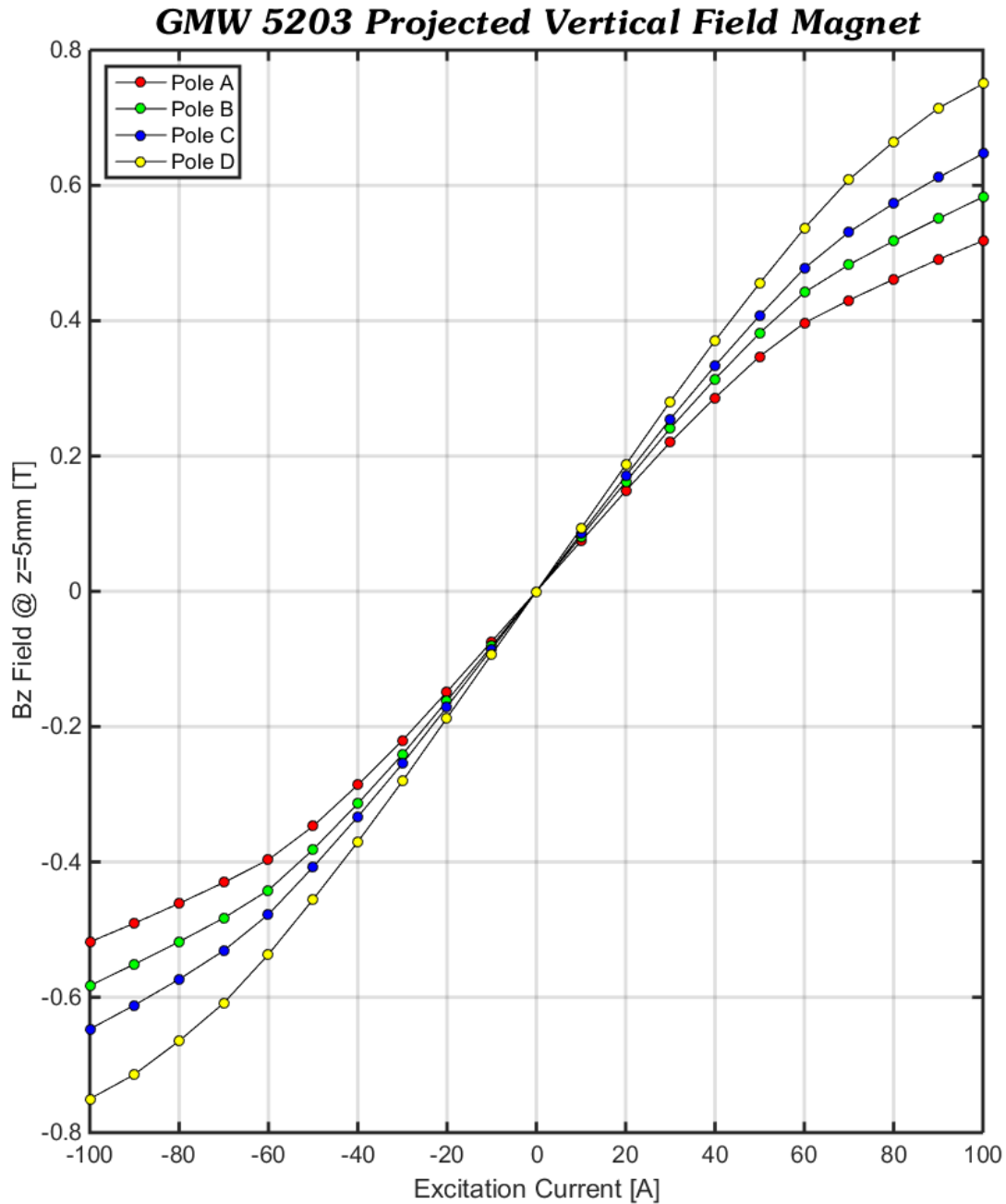
Pole B



Pole C



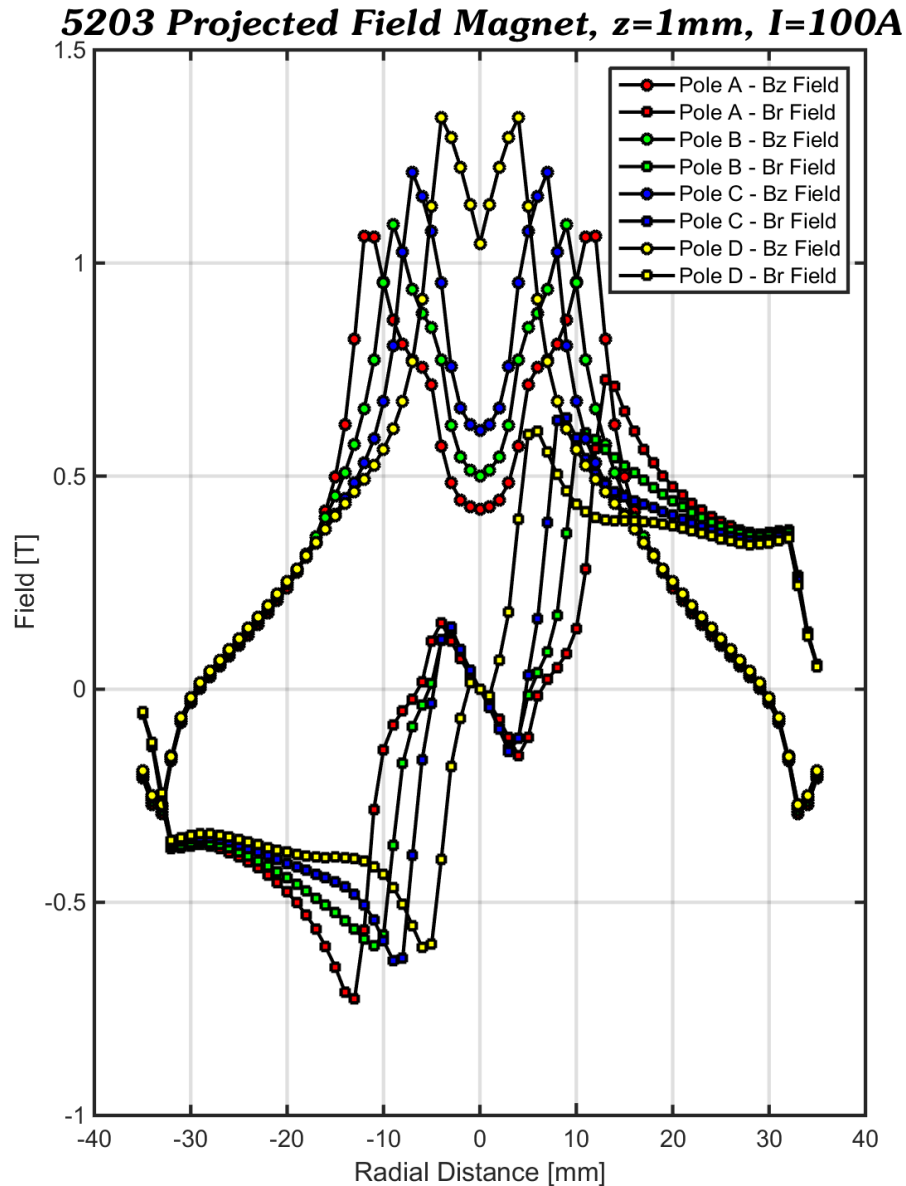
Pole D



9 January 2018

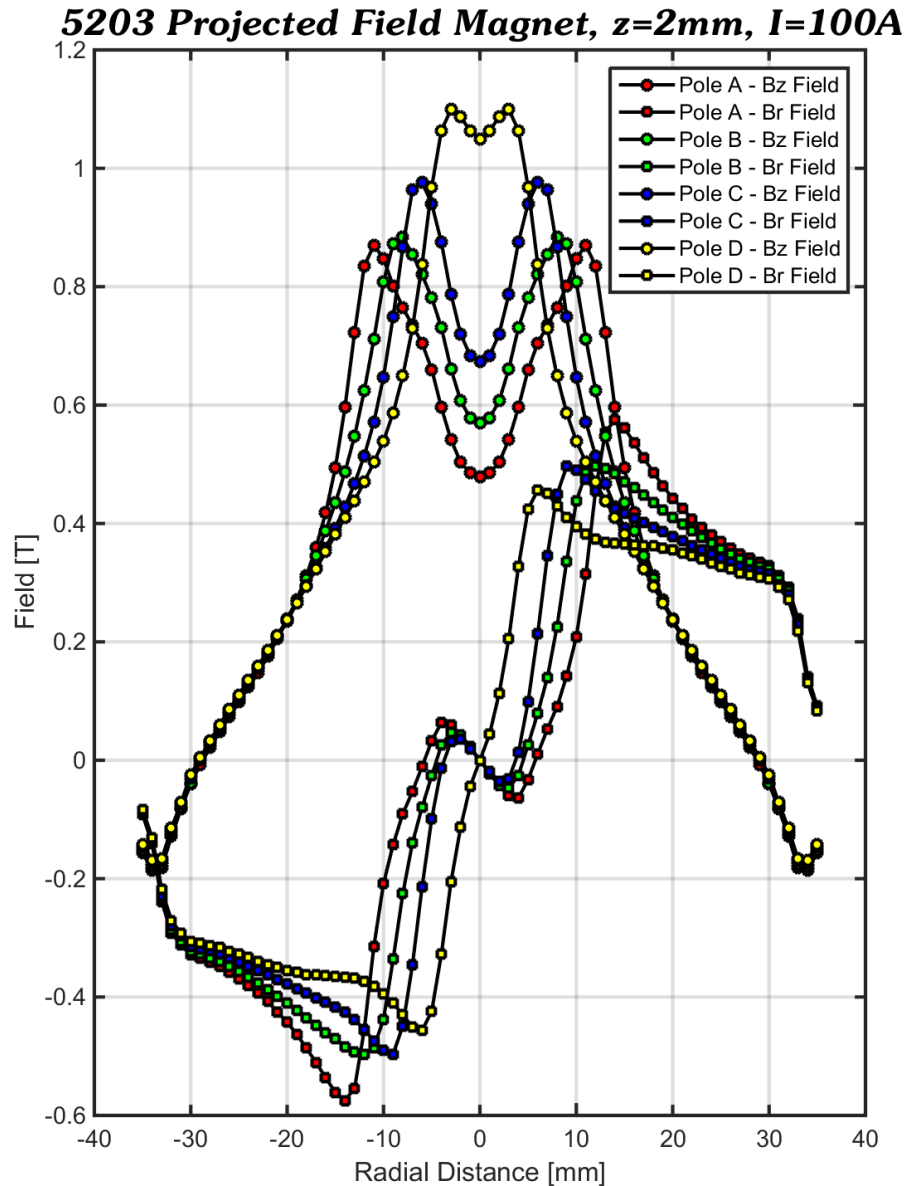
GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



$z=1\text{mm}$	Br/Bz Over Disc $\varnothing 4\text{mm}$	Bz Over Disc $\varnothing 4\text{mm}$	Peak Bz on axis [T]
Pole A	$\pm 7.54 \%$	$\pm 2.36 \%$	0.42
Pole B	$\pm 7.79 \%$	$\pm 3.69 \%$	0.50
Pole C	$\pm 6.72 \%$	$\pm 3.76 \%$	0.61
Pole D	$\pm 2.38 \%$	$\pm 7.35 \%$	1.05

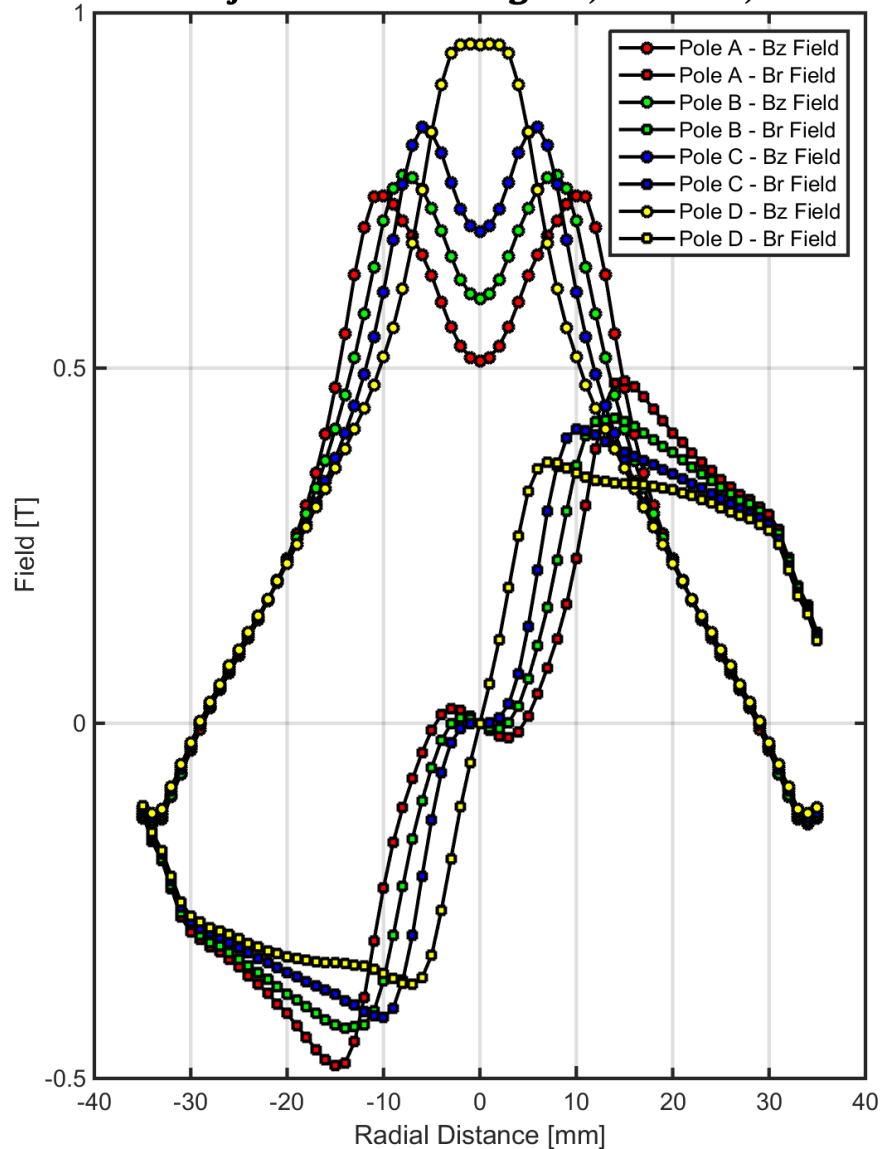
9 January 2018



$z=2\text{mm}$	Br/Bz Over Disc $\varnothing 4\text{mm}$	Bz Over Disc $\varnothing 4\text{mm}$	Peak Bz on axis [T]
Pole A	$\pm 4.12 \%$	$\pm 2.29 \%$	0.48
Pole B	$\pm 3.33 \%$	$\pm 2.91 \%$	0.57
Pole C	$\pm 2.36 \%$	$\pm 3.07 \%$	0.67
Pole D	$\pm 4.87 \%$	$\pm 1.67 \%$	1.05

9 January 2018

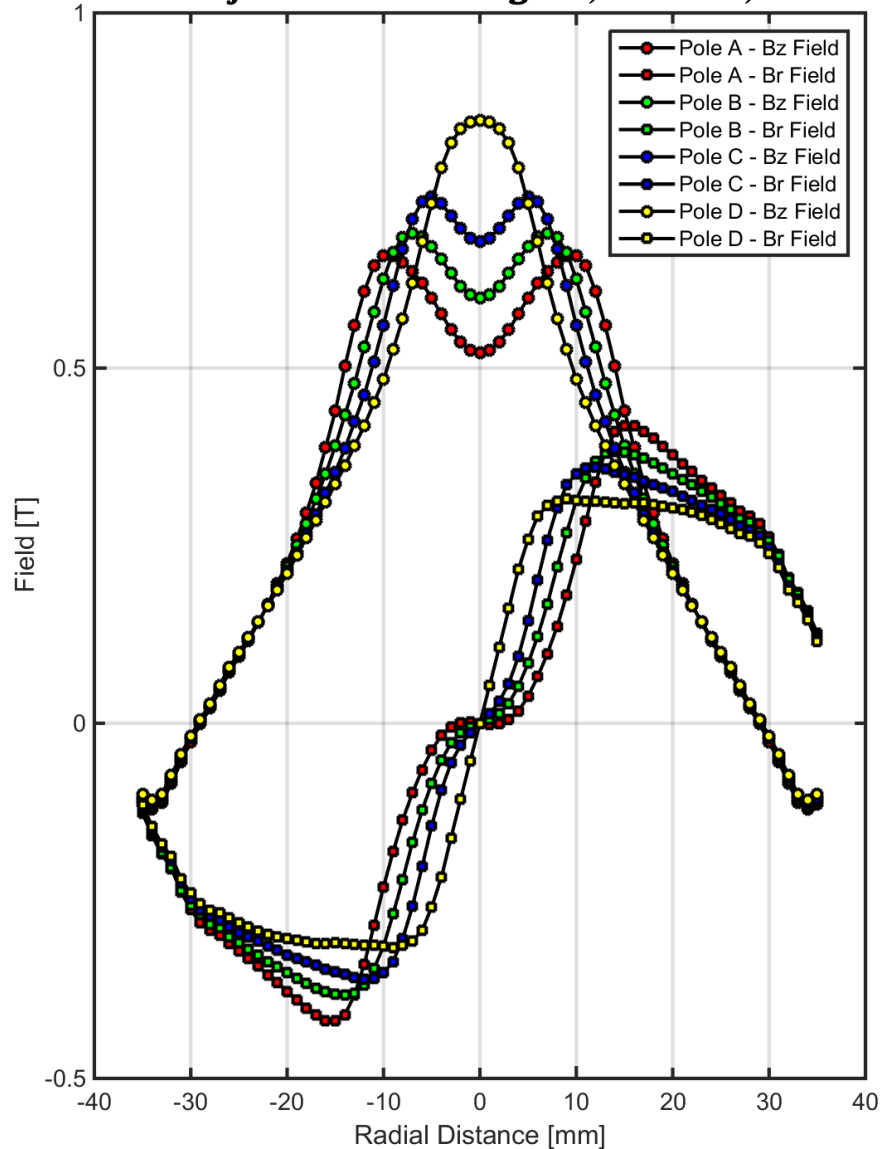
5203 Projected Field Magnet, $z=3\text{mm}$, $I=100\text{A}$



$z=3\text{mm}$	Br/Bz Over Disc $\varnothing 4\text{mm}$	Bz Over Disc $\varnothing 4\text{mm}$	Peak Bz on axis [T]
Pole A	$\pm 1.68 \%$	$\pm 1.82 \%$	0.51
Pole B	$\pm 0.64 \%$	$\pm 2.03 \%$	0.60
Pole C	$\pm 0.42 \%$	$\pm 2.06 \%$	0.69
Pole D	$\pm 5.81 \%$	$\pm 0.17 \%$	0.95

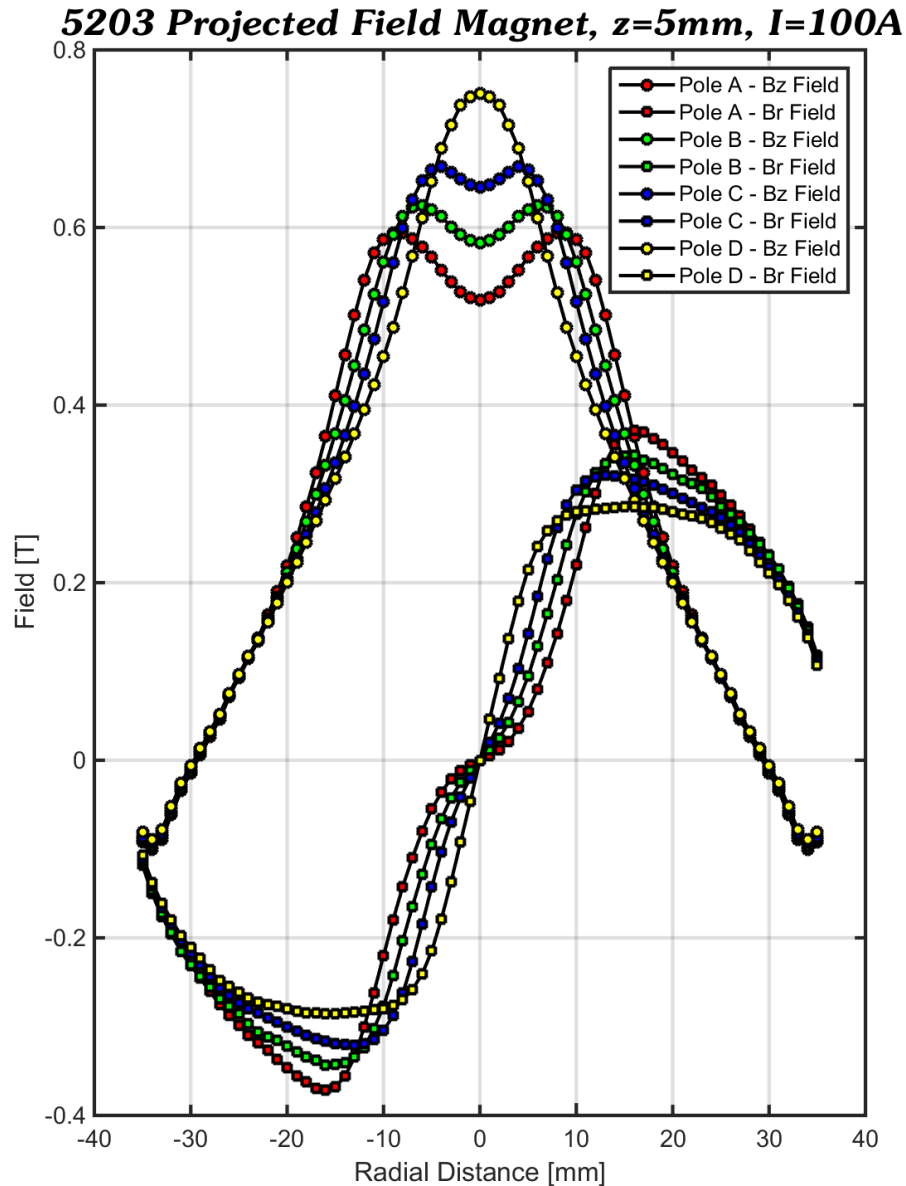
9 January 2018

5203 Projected Field Magnet, $z=4\text{mm}$, $I=100\text{A}$



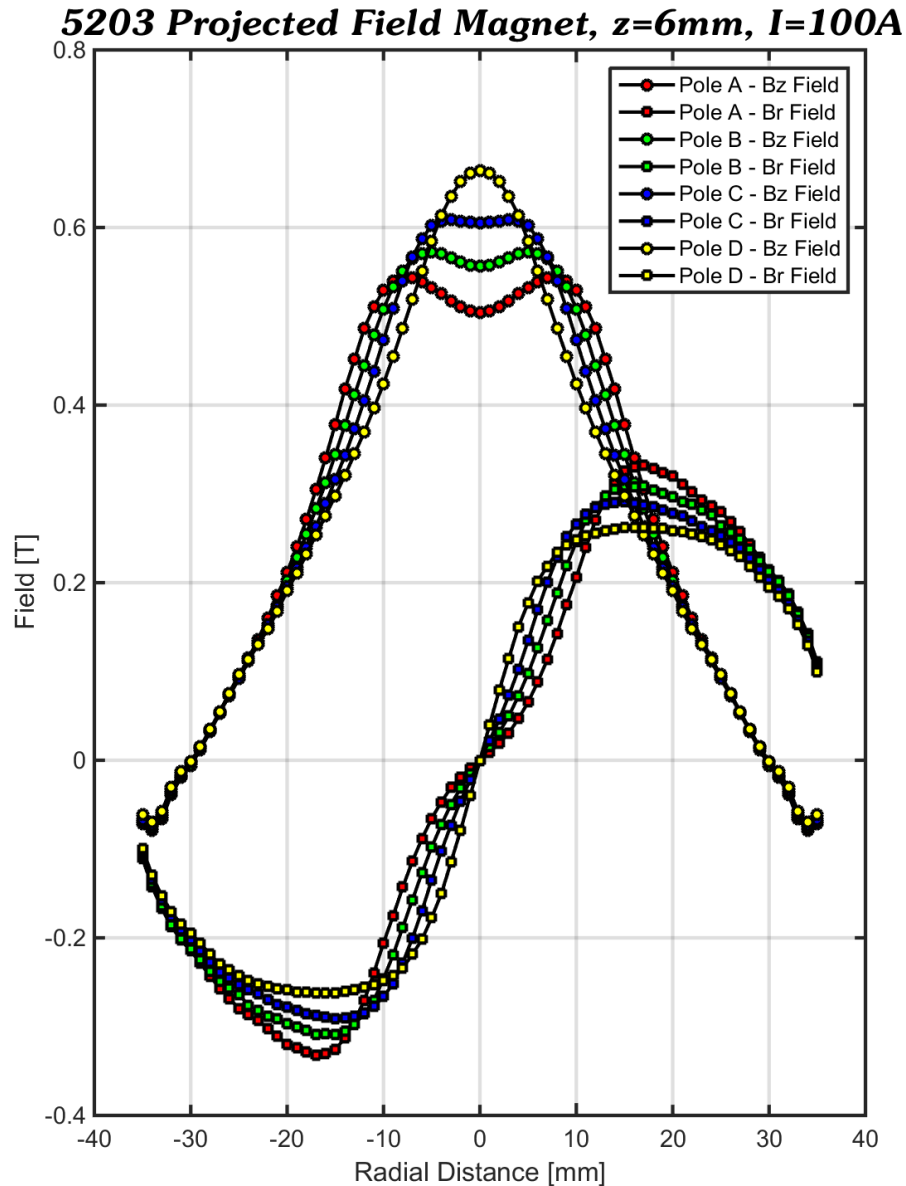
$z=4\text{mm}$	Br/Bz Over Disc $\varnothing 4\text{mm}$	Bz Over Disc $\varnothing 4\text{mm}$	Peak Bz on axis [T]
Pole A	$\pm 0.13 \%$	$\pm 1.28 \%$	0.52
Pole B	$\pm 1.00 \%$	$\pm 1.24 \%$	0.60
Pole C	$\pm 2.07 \%$	$\pm 1.17 \%$	0.68
Pole D	$\pm 6.07 \%$	$\pm 0.65 \%$	0.85

9 January 2018



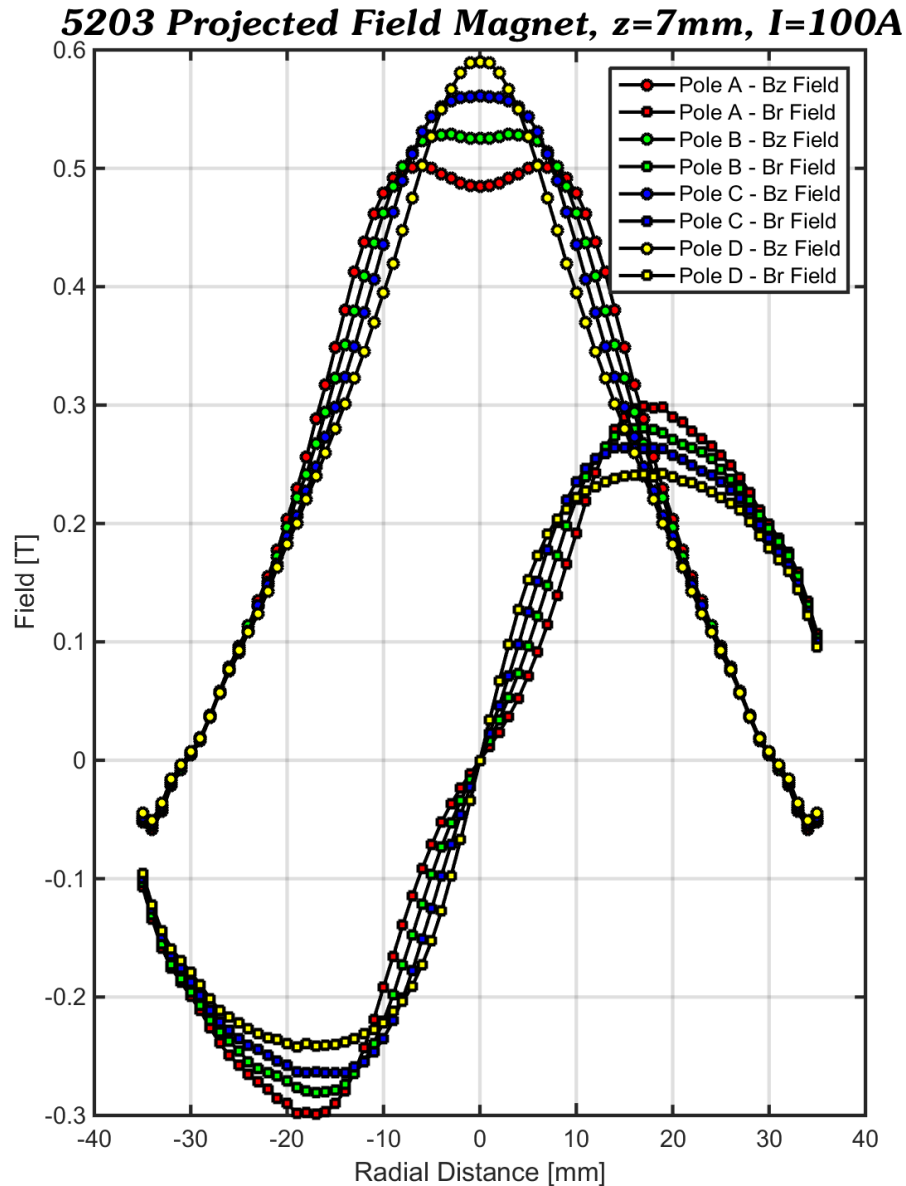
$z=5\text{mm}$	Br/Bz Over Disc $\varnothing 4\text{mm}$	Bz Over Disc $\varnothing 4\text{mm}$	Peak Bz on axis [T]
Pole A	$\pm 1.00 \%$	$\pm 0.83 \%$	0.52
Pole B	$\pm 2.00 \%$	$\pm 0.70 \%$	0.58
Pole C	$\pm 3.00 \%$	$\pm 0.51 \%$	0.65
Pole D	$\pm 5.95 \%$	$\pm 0.89 \%$	0.75

9 January 2018



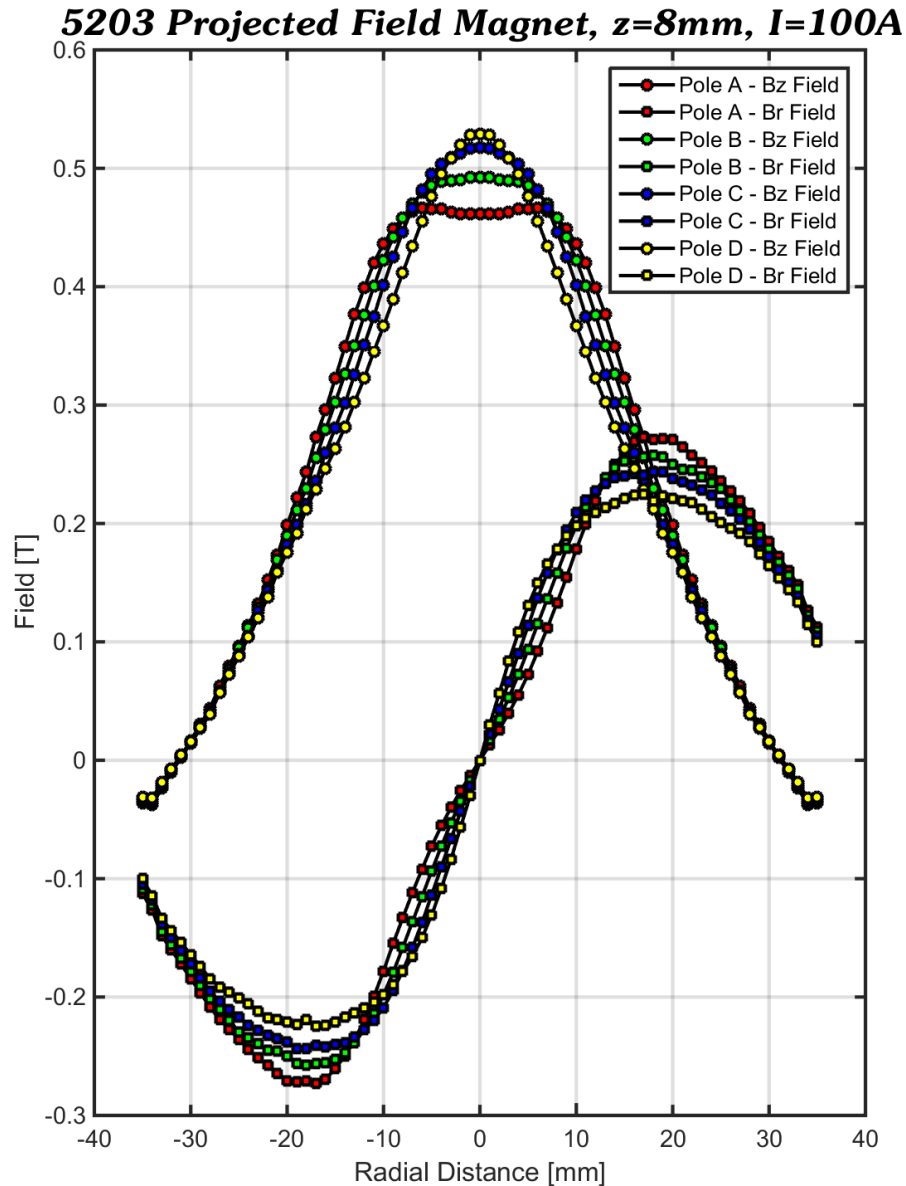
$z=6\text{mm}$	Br/Bz Over Disc $\varnothing 4\text{mm}$	Bz Over Disc $\varnothing 4\text{mm}$	Peak Bz on axis [T]
Pole A	$\pm 1.74 \%$	$\pm 0.55 \%$	0.50
Pole B	$\pm 2.64 \%$	$\pm 0.40 \%$	0.56
Pole C	$\pm 3.57 \%$	$\pm 0.21 \%$	0.60
Pole D	$\pm 5.71 \%$	$\pm 0.90 \%$	0.67

9 January 2018



$z=7\text{mm}$	Br/Bz Over Disc $\varnothing 4\text{mm}$	Bz Over Disc $\varnothing 4\text{mm}$	Peak Bz on axis [T]
Pole A	$\pm 2.28 \%$	$\pm 0.34 \%$	0.48
Pole B	$\pm 3.08 \%$	$\pm 0.16 \%$	0.53
Pole C	$\pm 3.91 \%$	$\pm 0.08 \%$	0.56
Pole D	$\pm 5.46 \%$	$\pm 0.83 \%$	0.59

9 January 2018

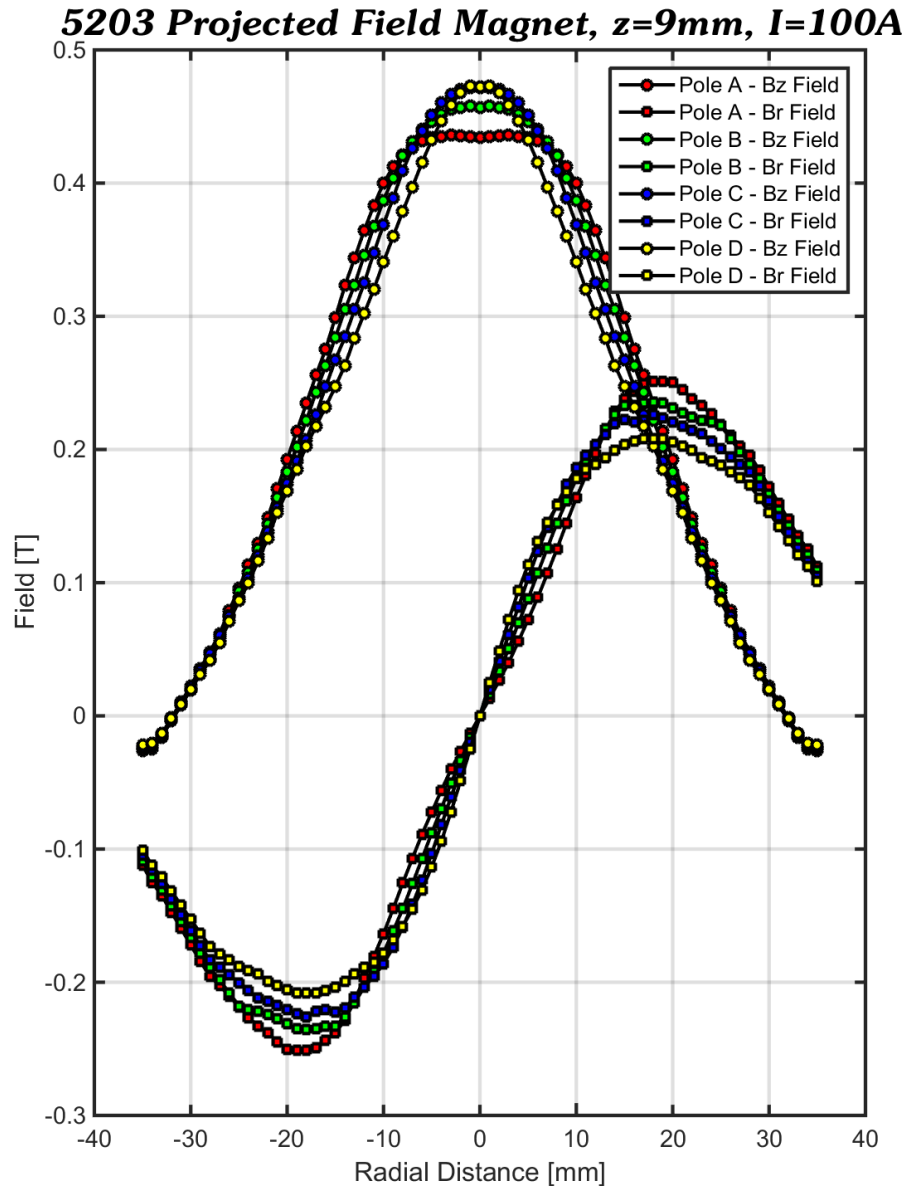


$z=8\text{mm}$	Br/Bz Over Disc $\varnothing 4\text{mm}$	Bz Over Disc $\varnothing 4\text{mm}$	Peak Bz on axis [T]
Pole A	$\pm 2.63 \%$	$\pm 0.18 \%$	0.46
Pole B	$\pm 3.28 \%$	$\pm 0.27 \%$	0.49
Pole C	$\pm 4.03 \%$	$\pm 0.44 \%$	0.52
Pole D	$\pm 5.16 \%$	$\pm 1.01 \%$	0.53

9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

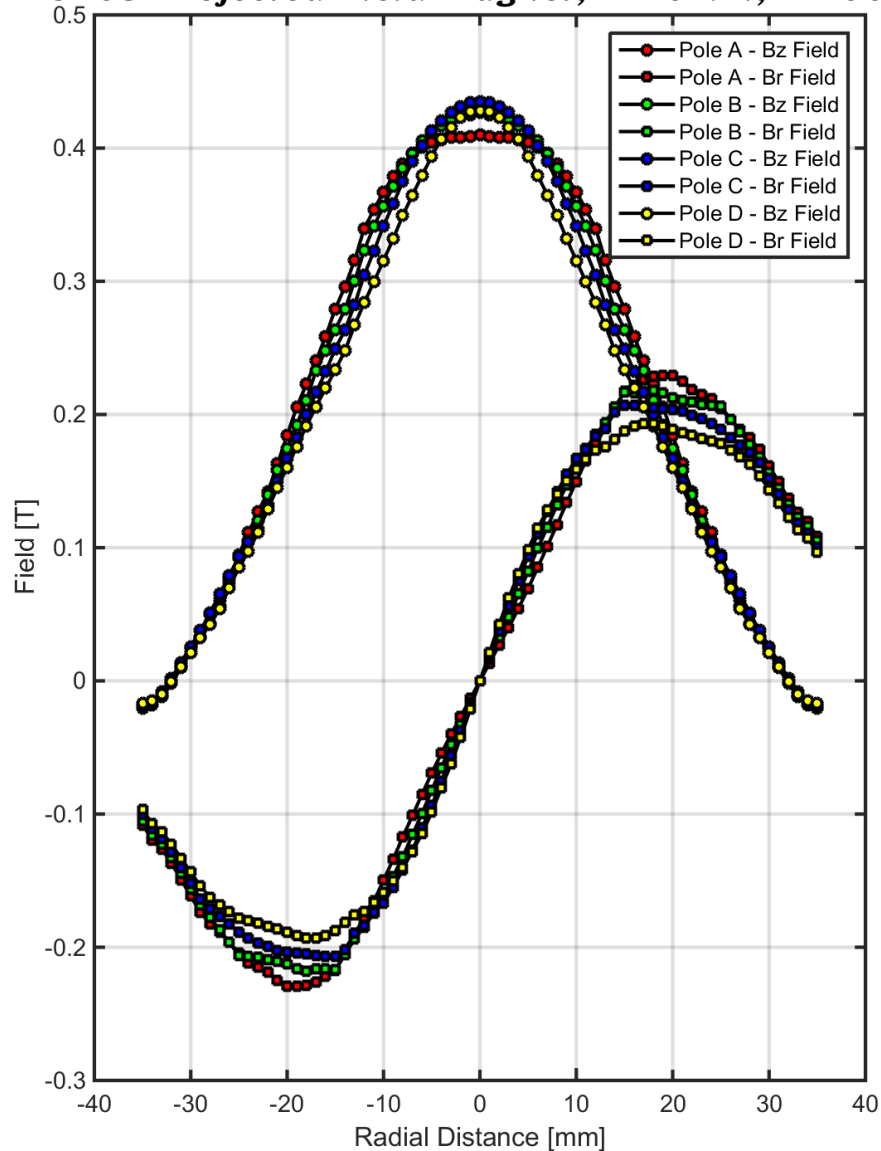
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



$z=9\text{mm}$	Br/Bz Over Disc $\varnothing 4\text{mm}$	Bz Over Disc $\varnothing 4\text{mm}$	Peak Bz on axis [T]
Pole A	$\pm 2.89 \%$	$\pm 0.15 \%$	0.43
Pole B	$\pm 3.50 \%$	$\pm 0.20 \%$	0.46
Pole C	$\pm 4.14 \%$	$\pm 0.41 \%$	0.47
Pole D	$\pm 4.94 \%$	$\pm 0.87 \%$	0.47

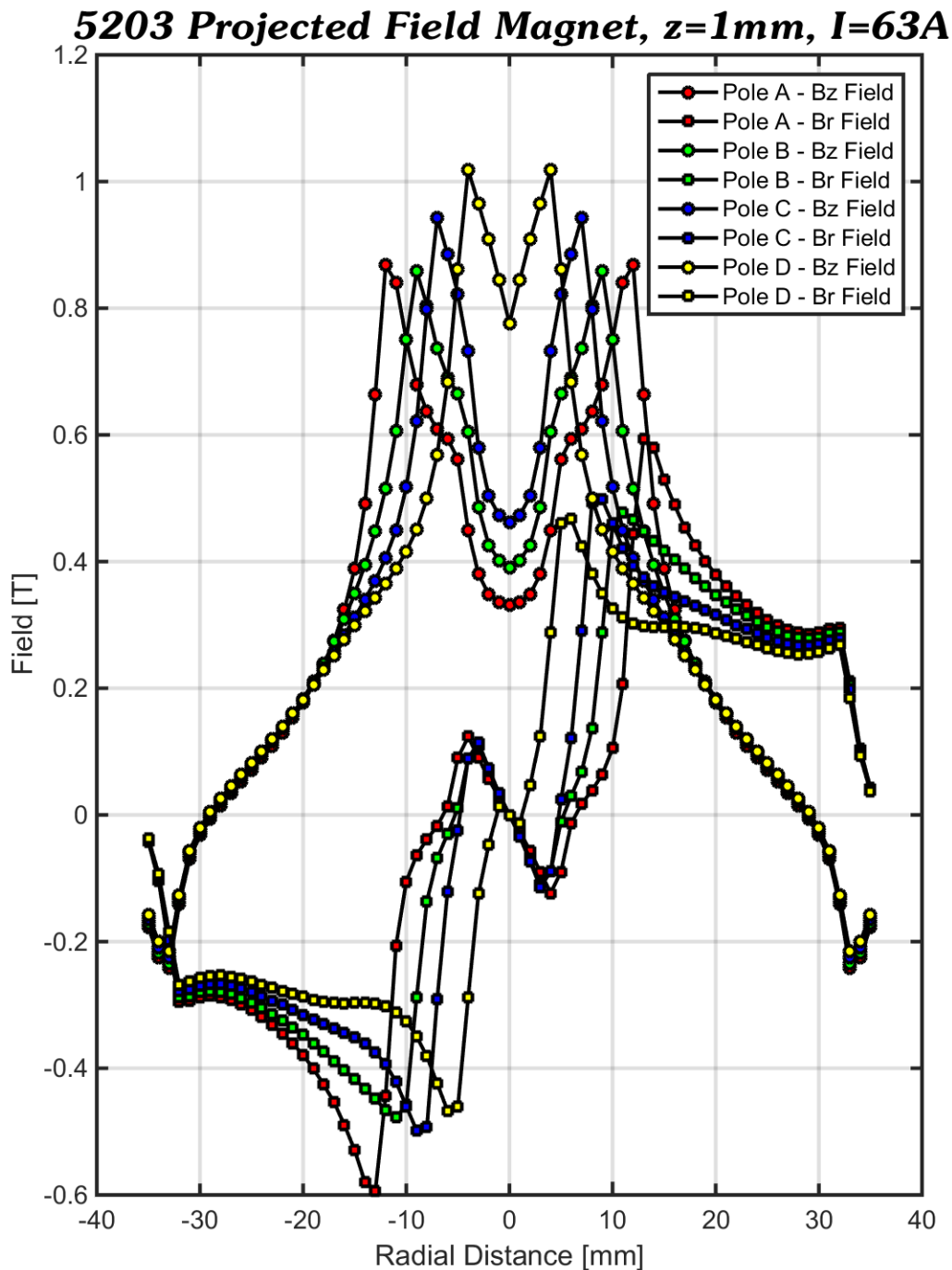
9 January 2018

5203 Projected Field Magnet, $z=10\text{mm}$, $I=100\text{A}$



$z=10\text{mm}$	Br/Bz Over Disc $\varnothing 4\text{mm}$	Bz Over Disc $\varnothing 4\text{mm}$	Peak Bz on axis [T]
Pole A	$\pm 3.14 \%$	$\pm 0.18 \%$	0.41
Pole B	$\pm 3.61 \%$	$\pm 0.28 \%$	0.42
Pole C	$\pm 4.11 \%$	$\pm 0.41 \%$	0.43
Pole D	$\pm 4.77 \%$	$\pm 0.70 \%$	0.43

9 January 2018

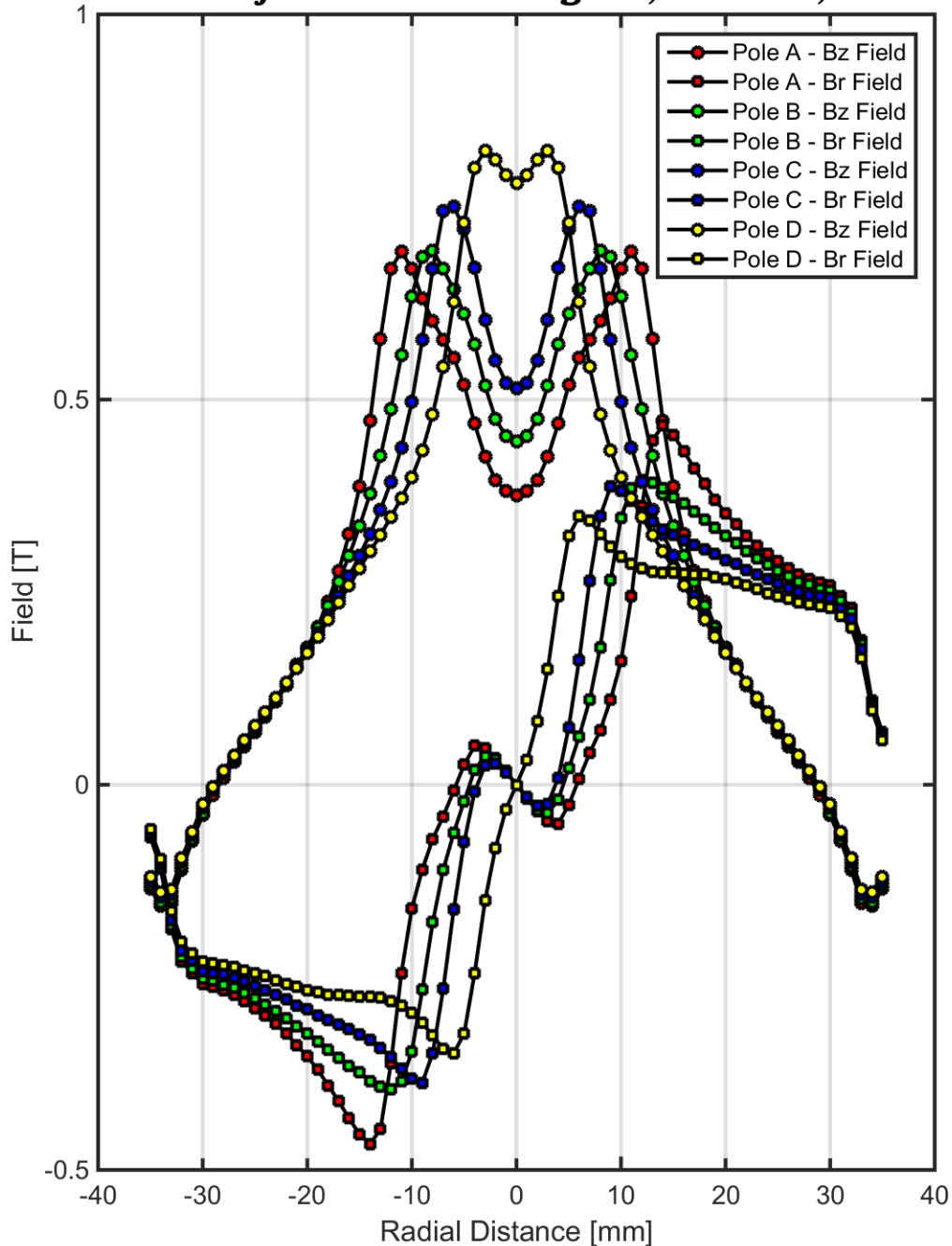


9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com

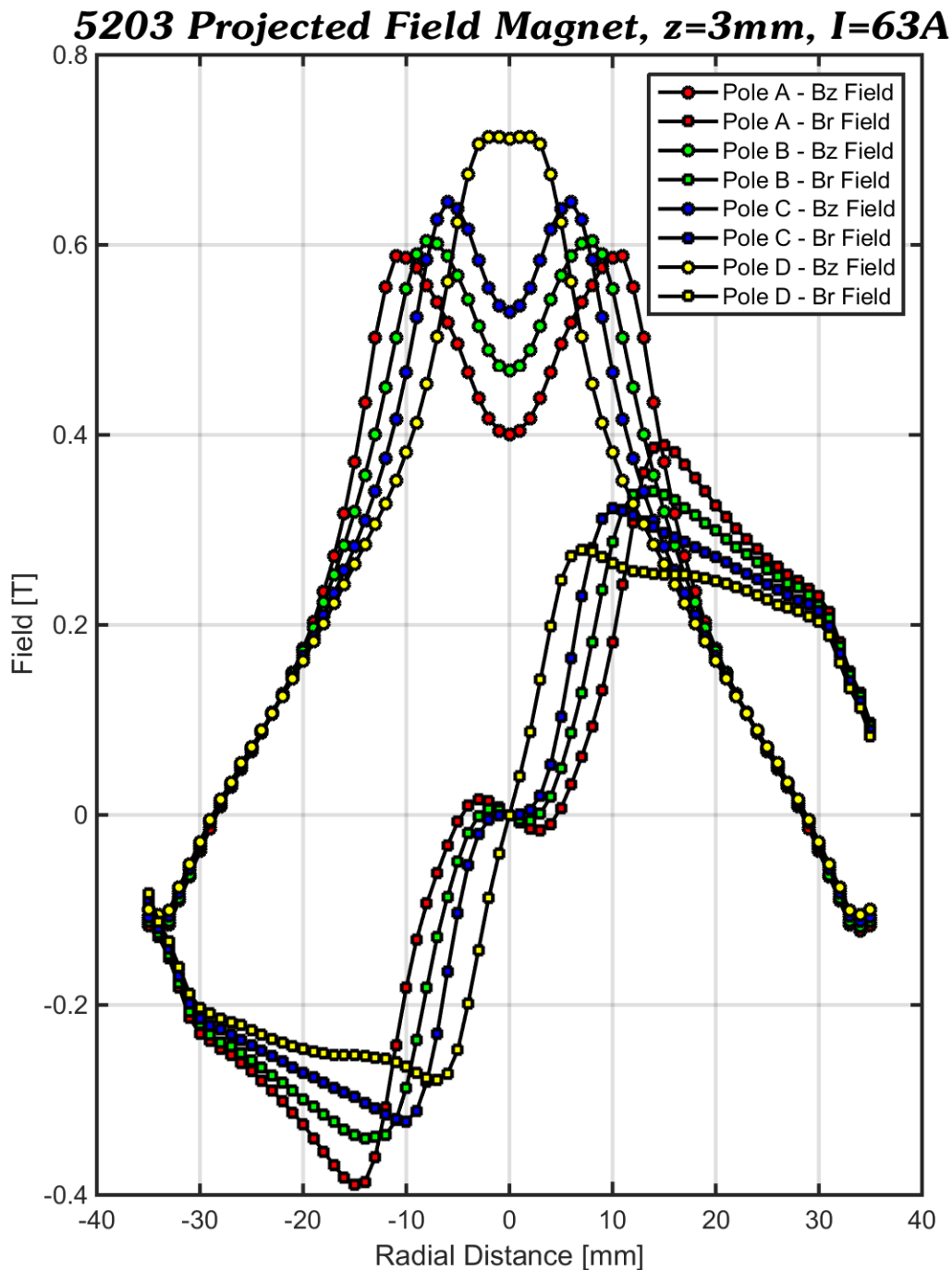
5203 Projected Field Magnet, $z=2\text{mm}$, $I=63\text{A}$



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

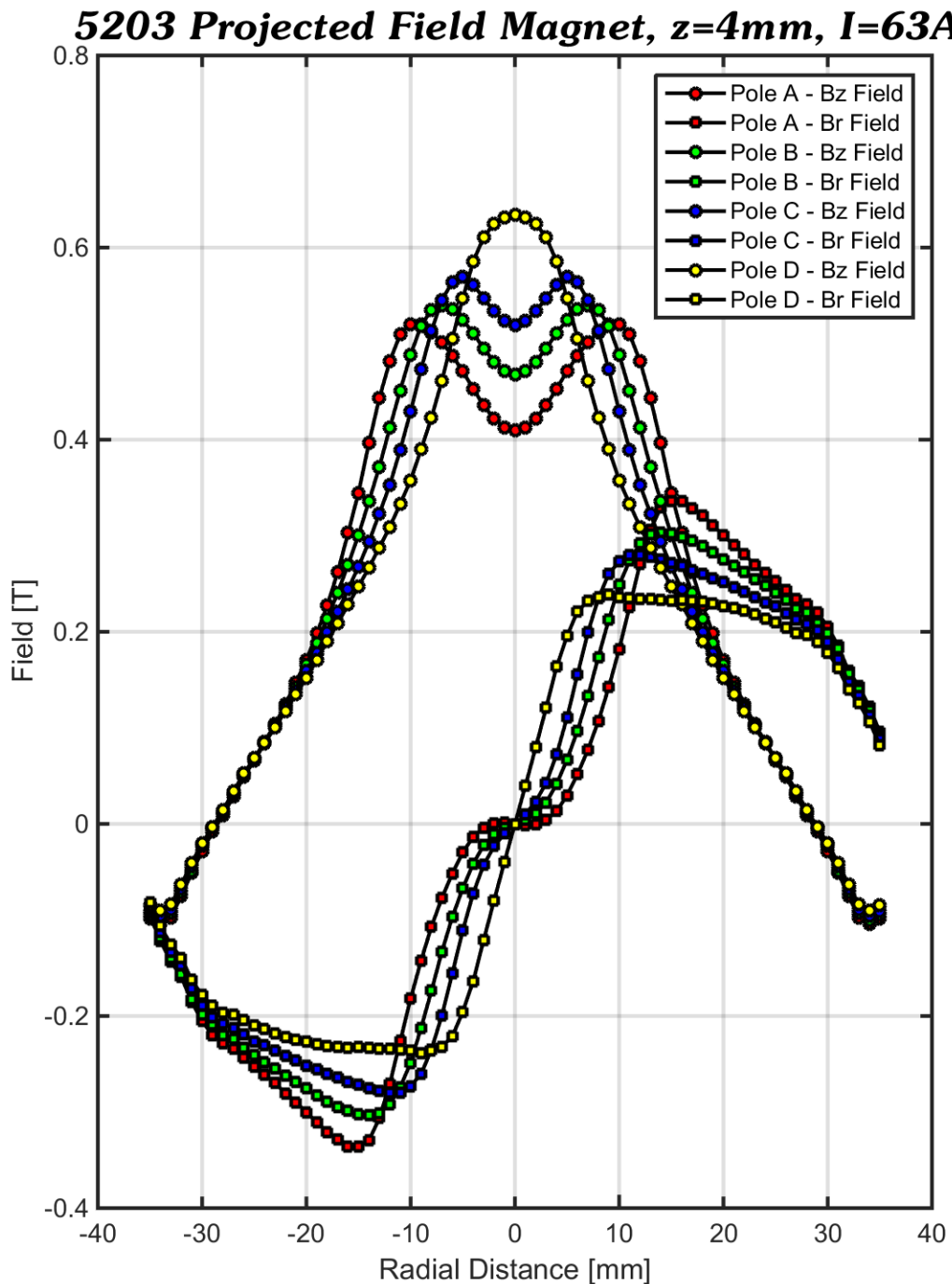
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

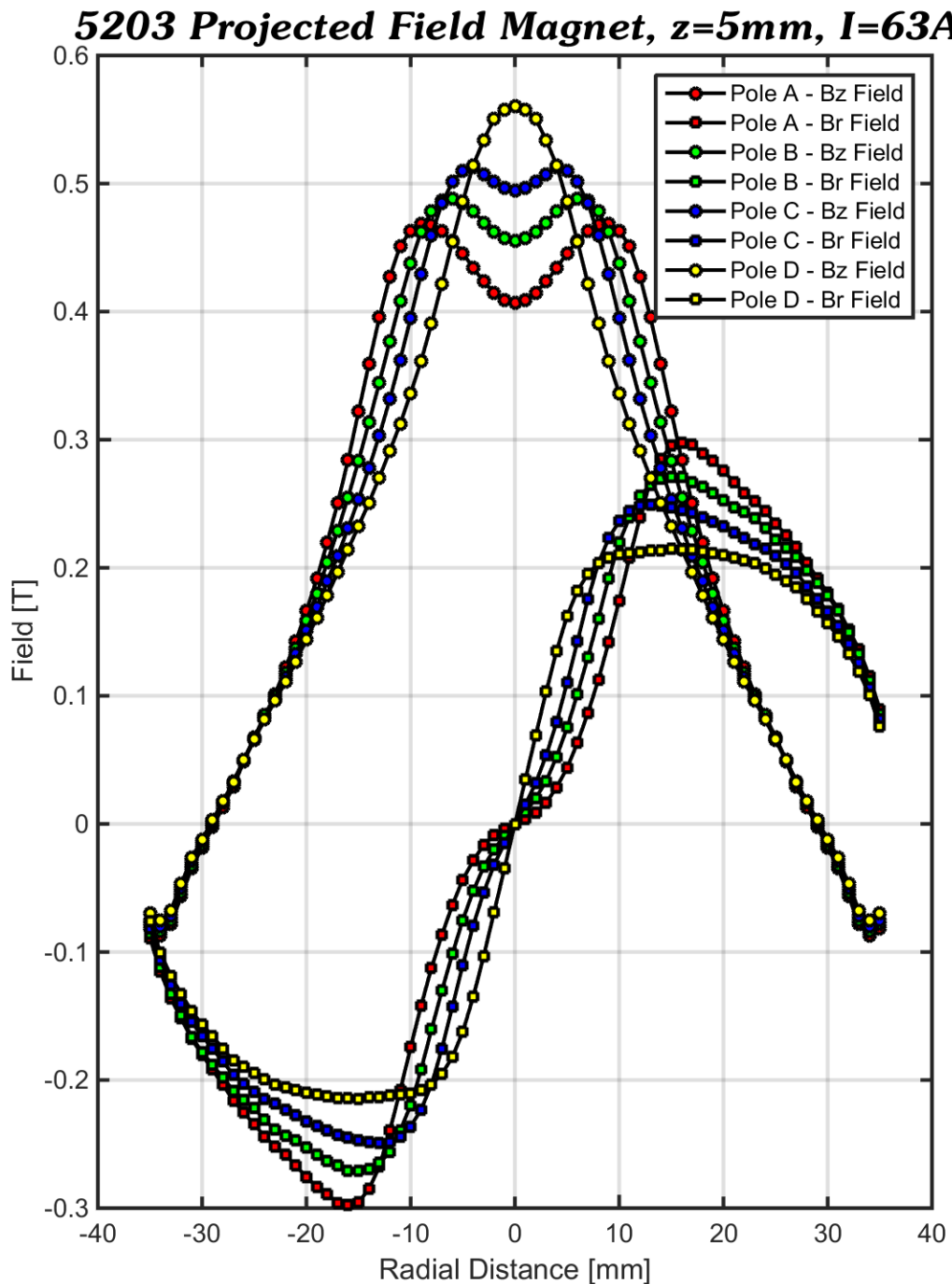
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

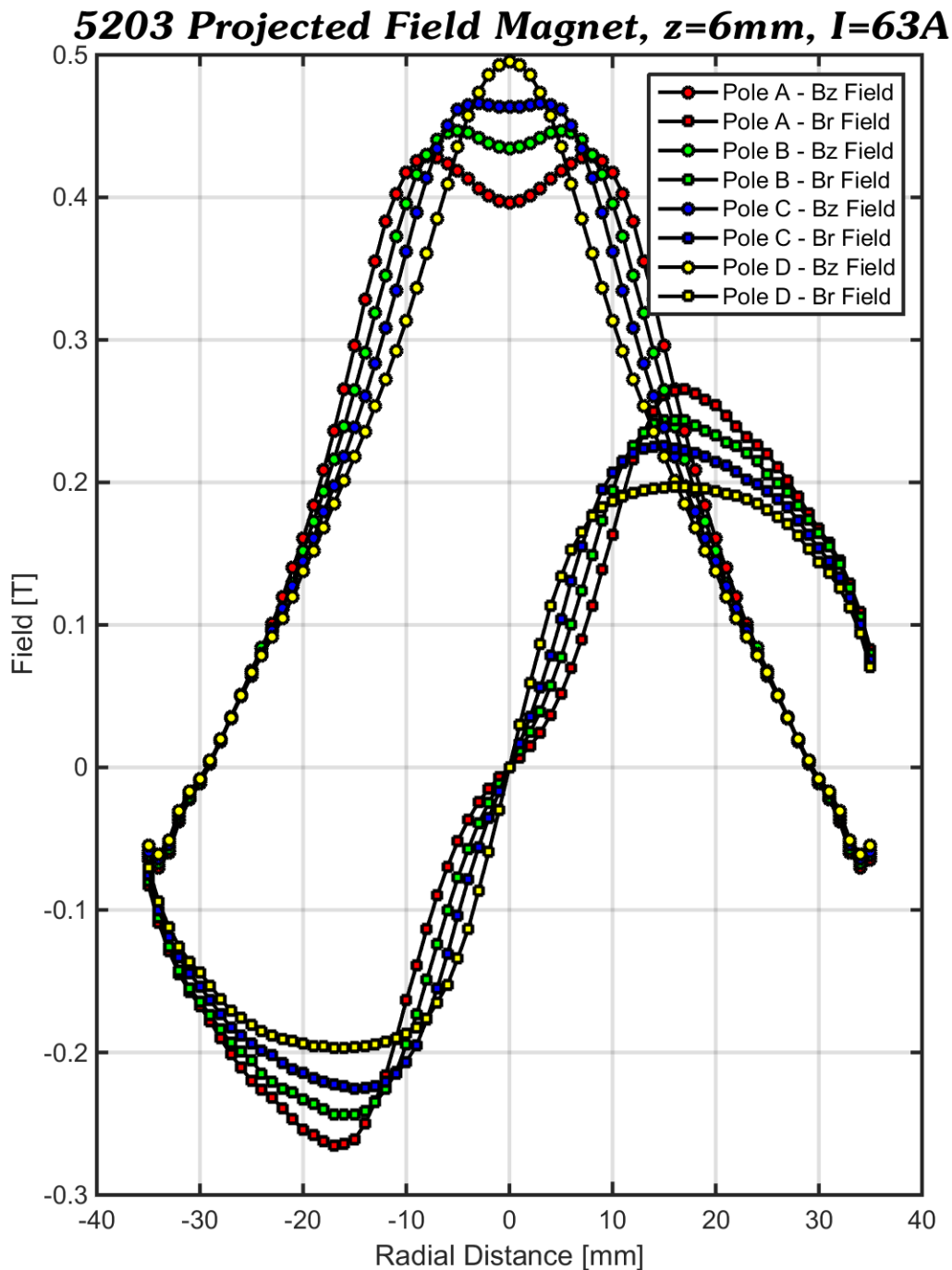
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

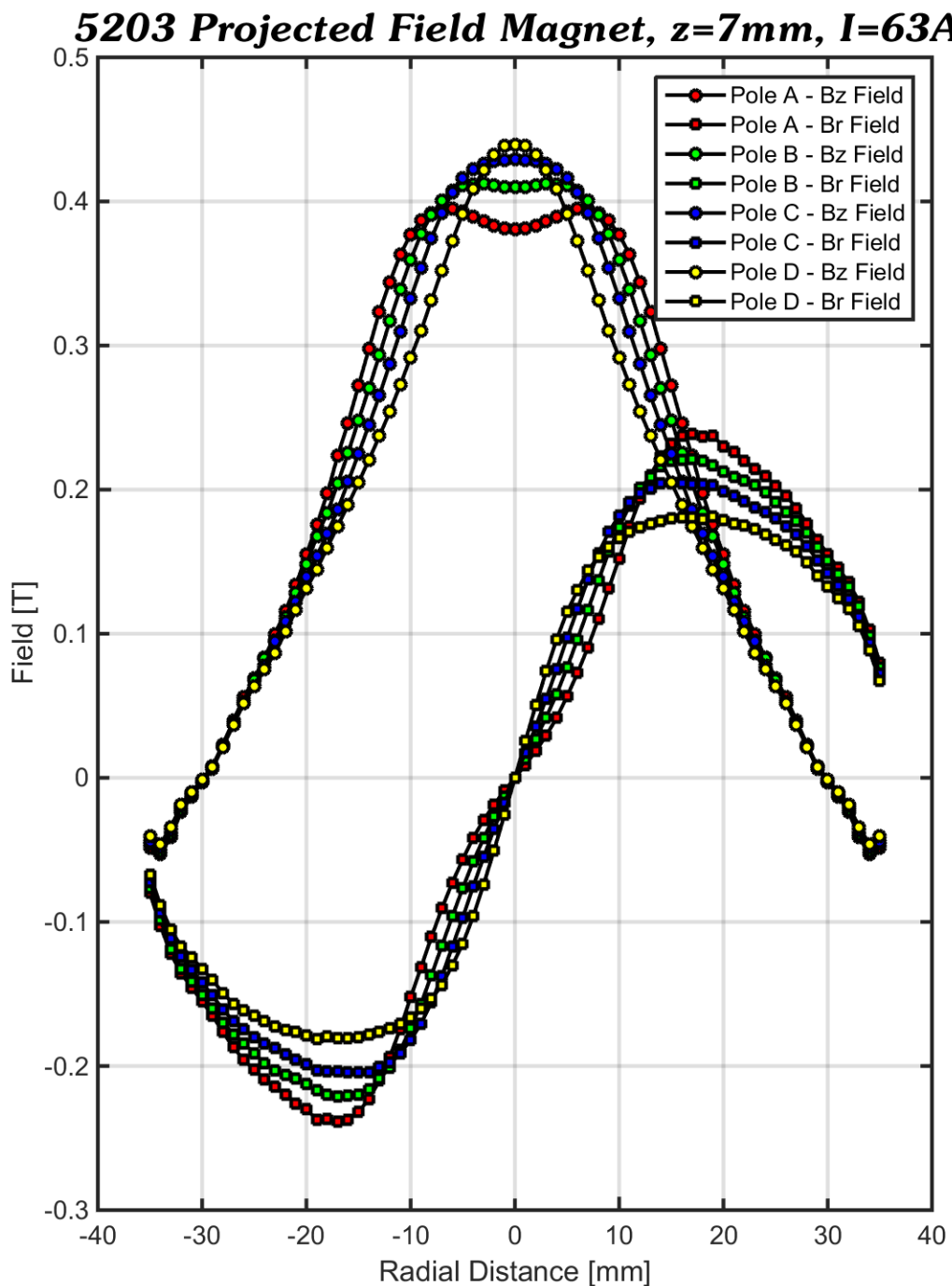
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

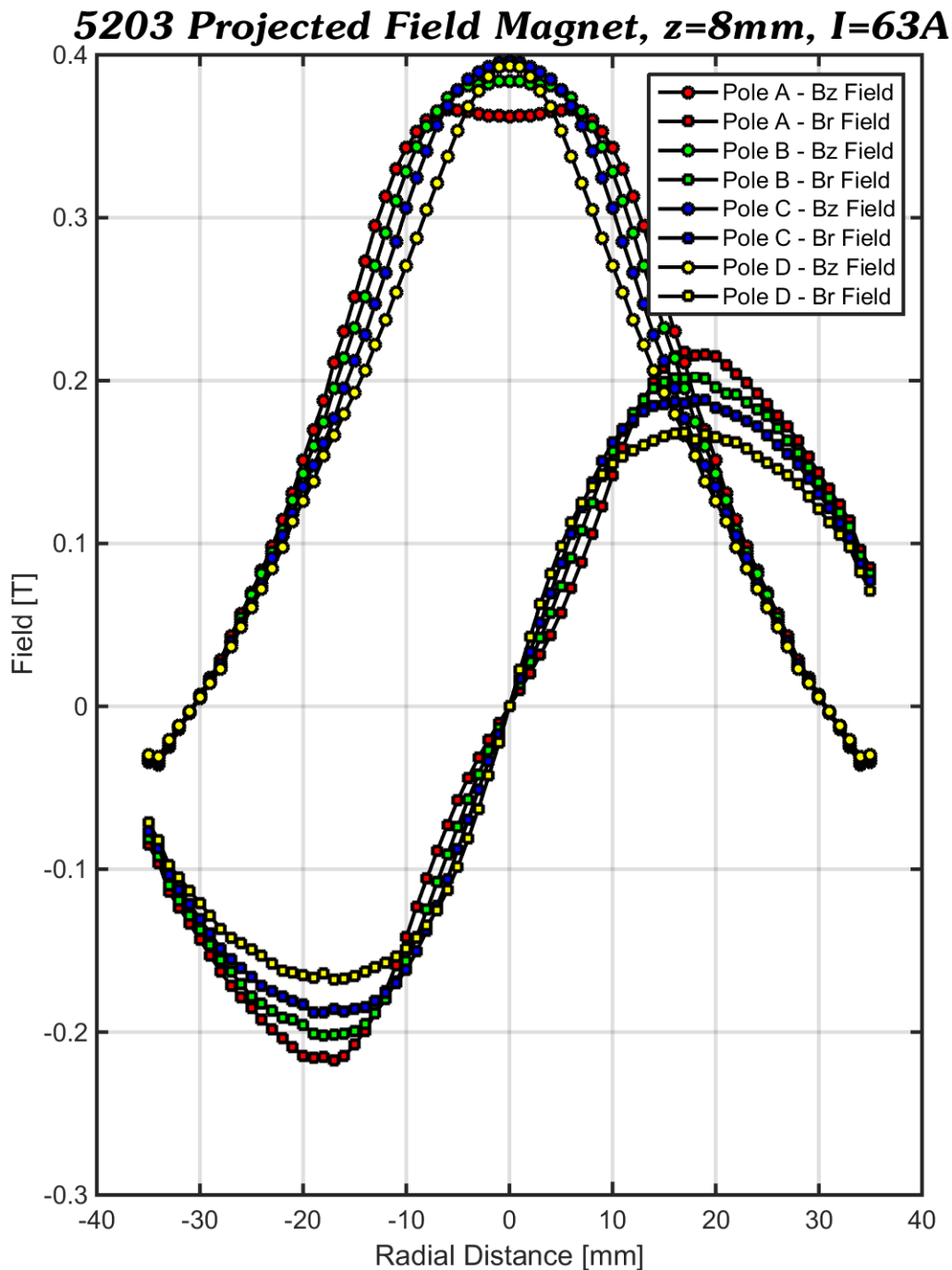
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

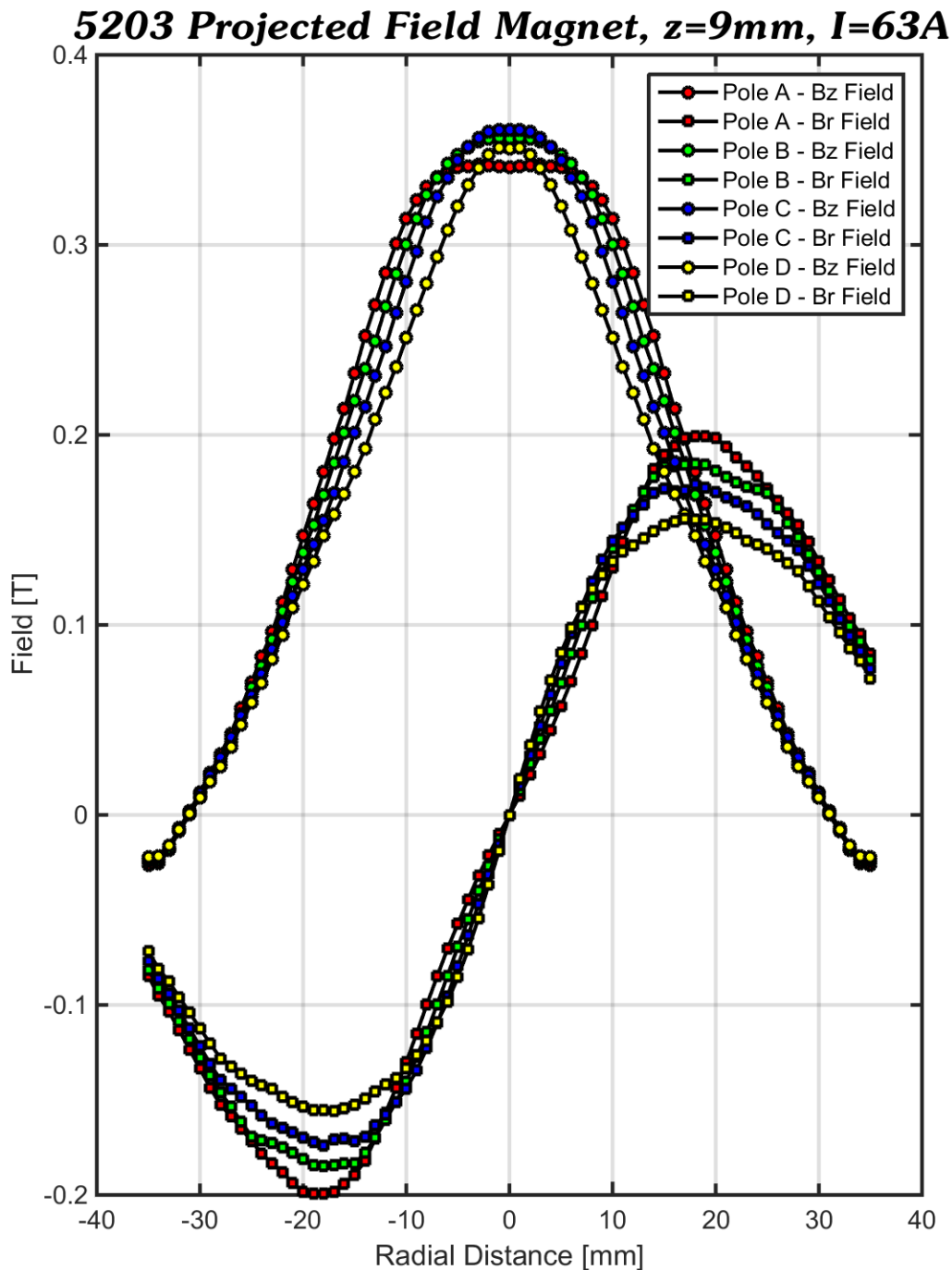
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

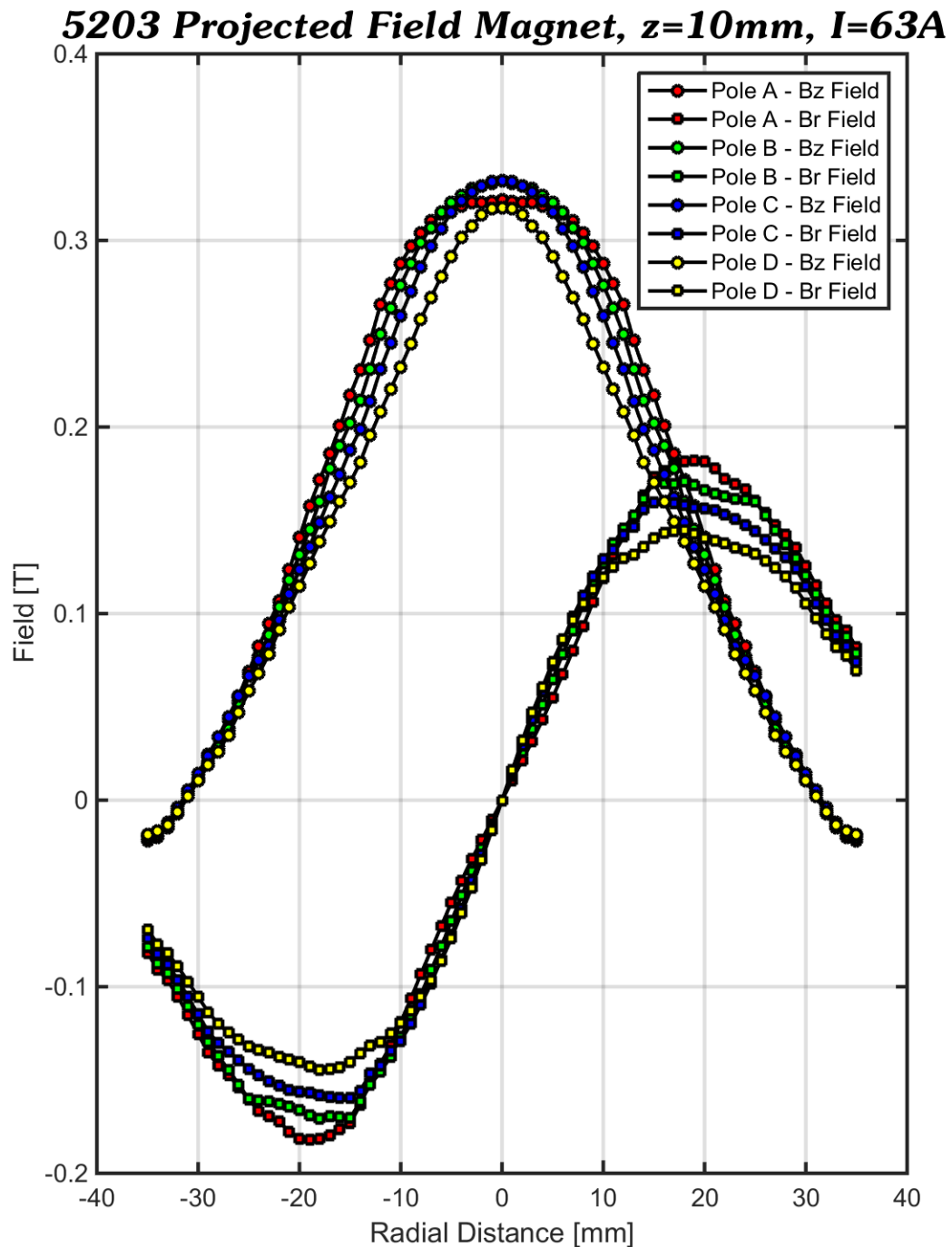
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com

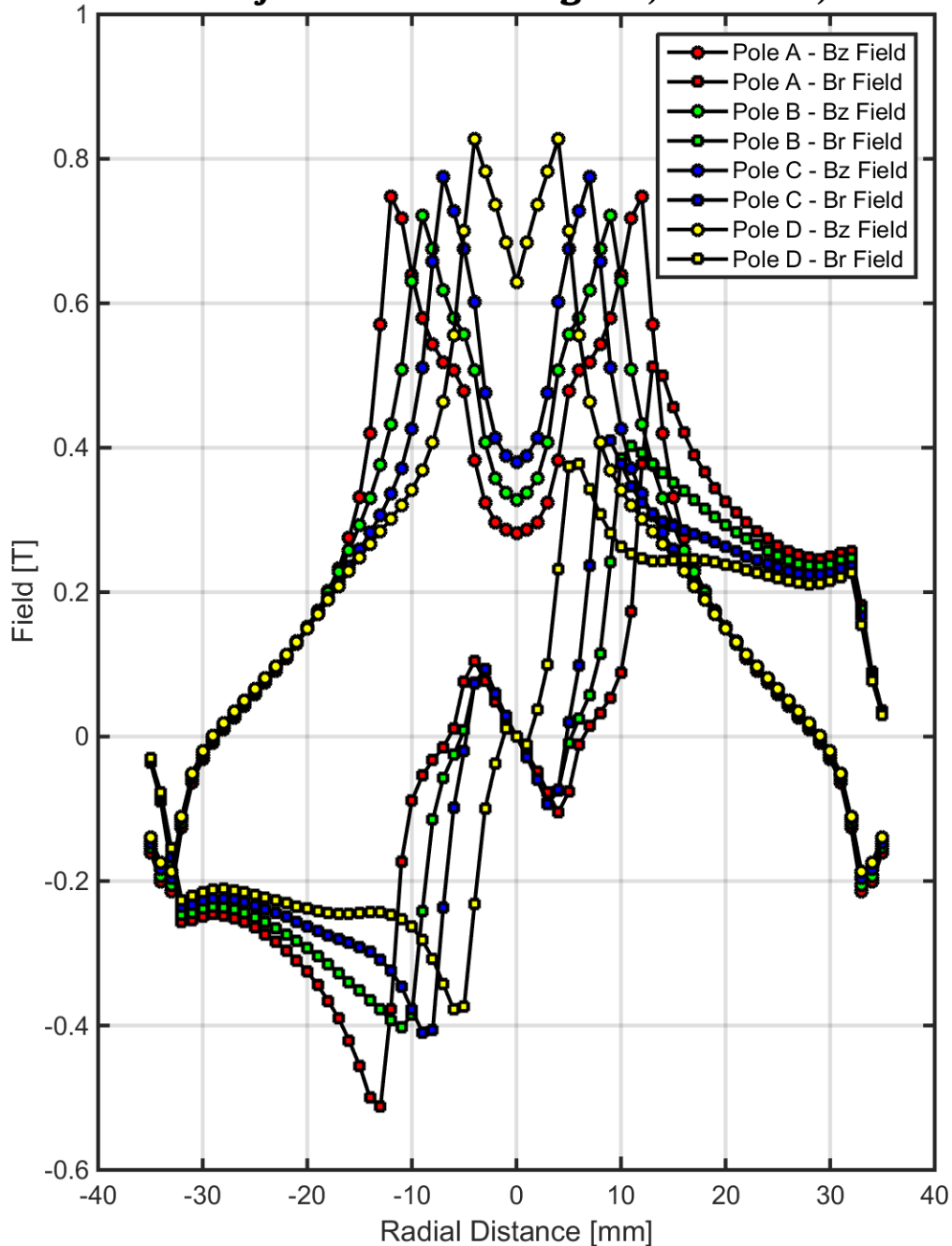


9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com

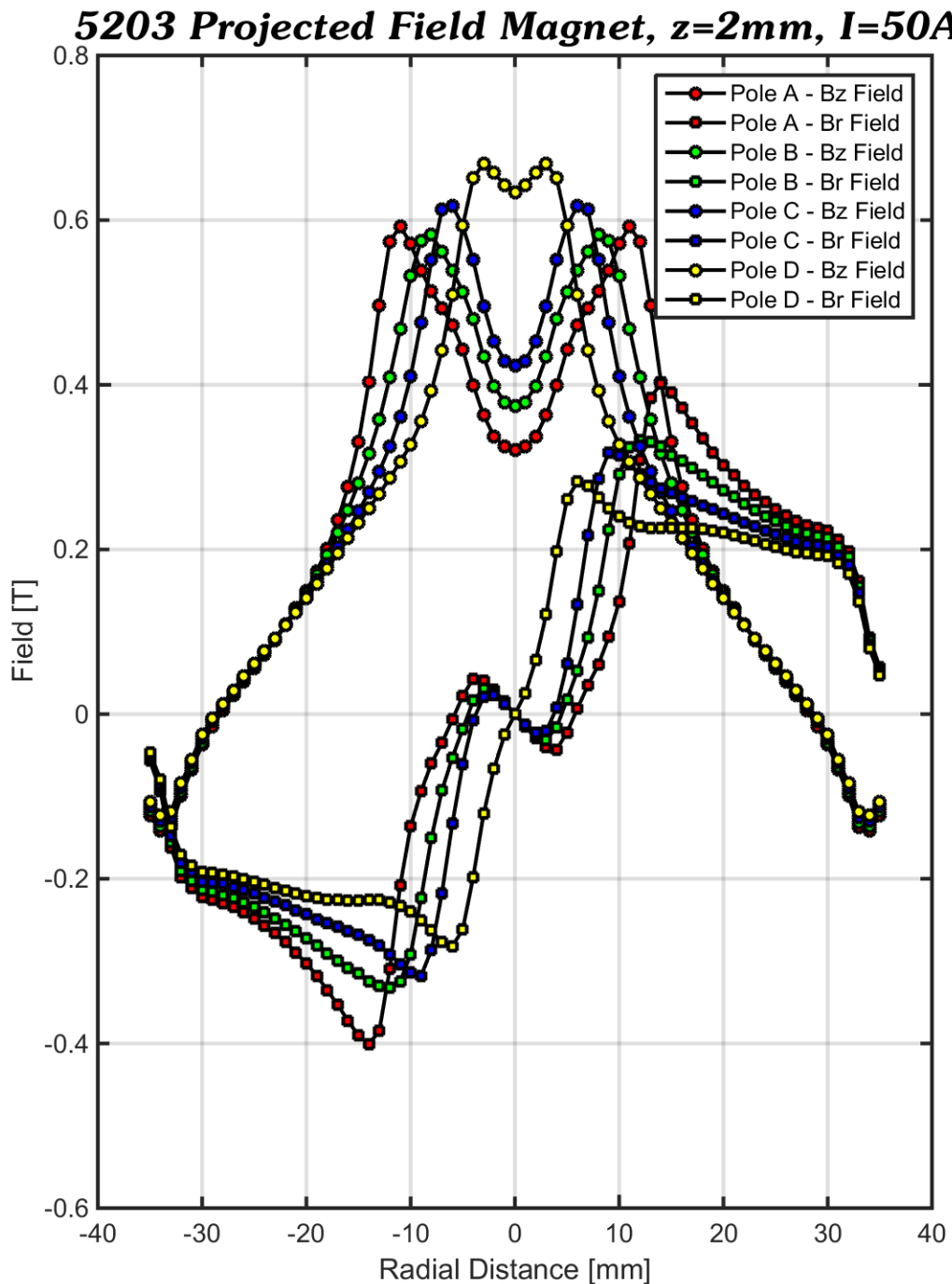
5203 Projected Field Magnet, $z=1\text{mm}$, $I=50\text{A}$



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

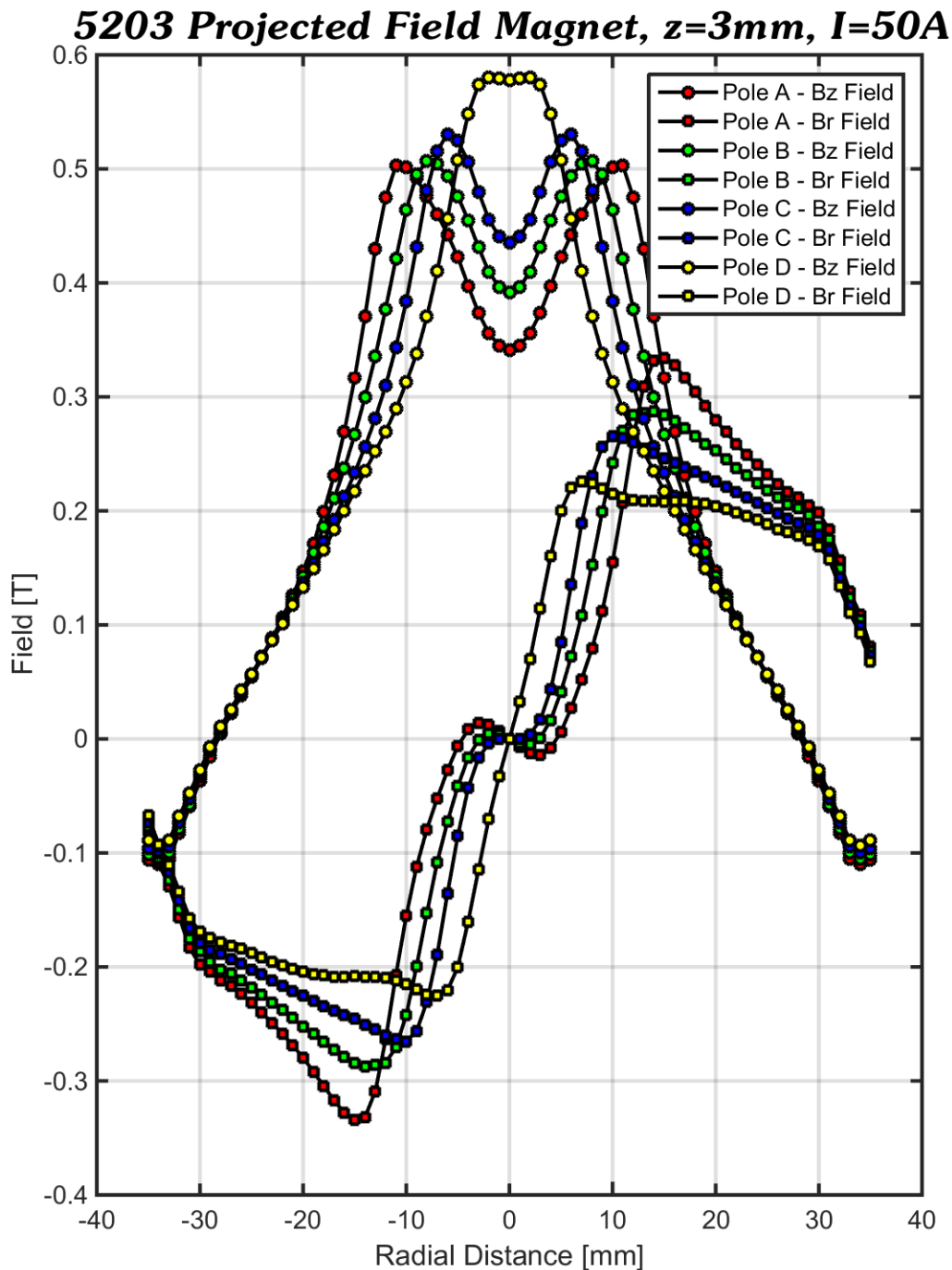
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

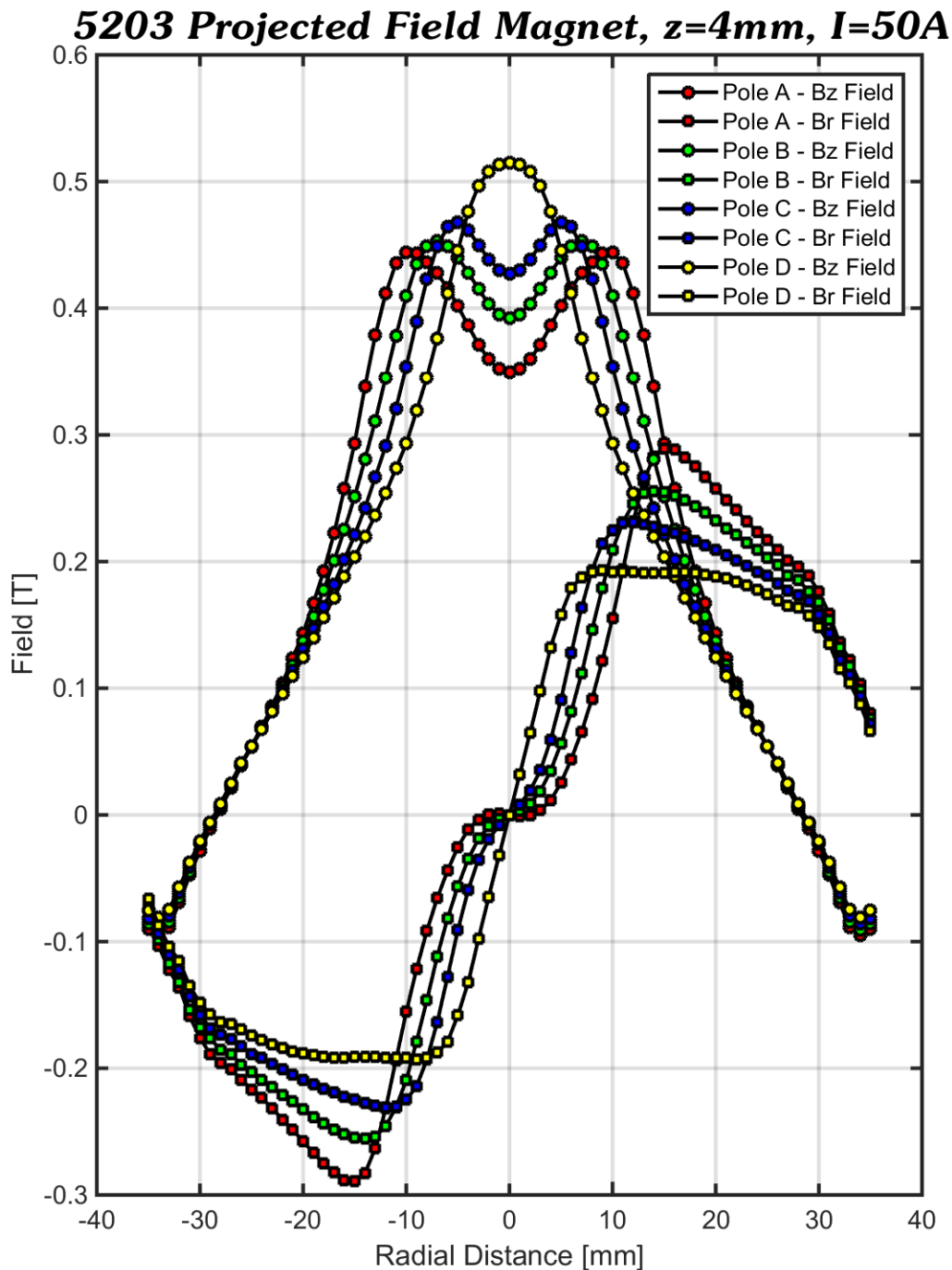
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

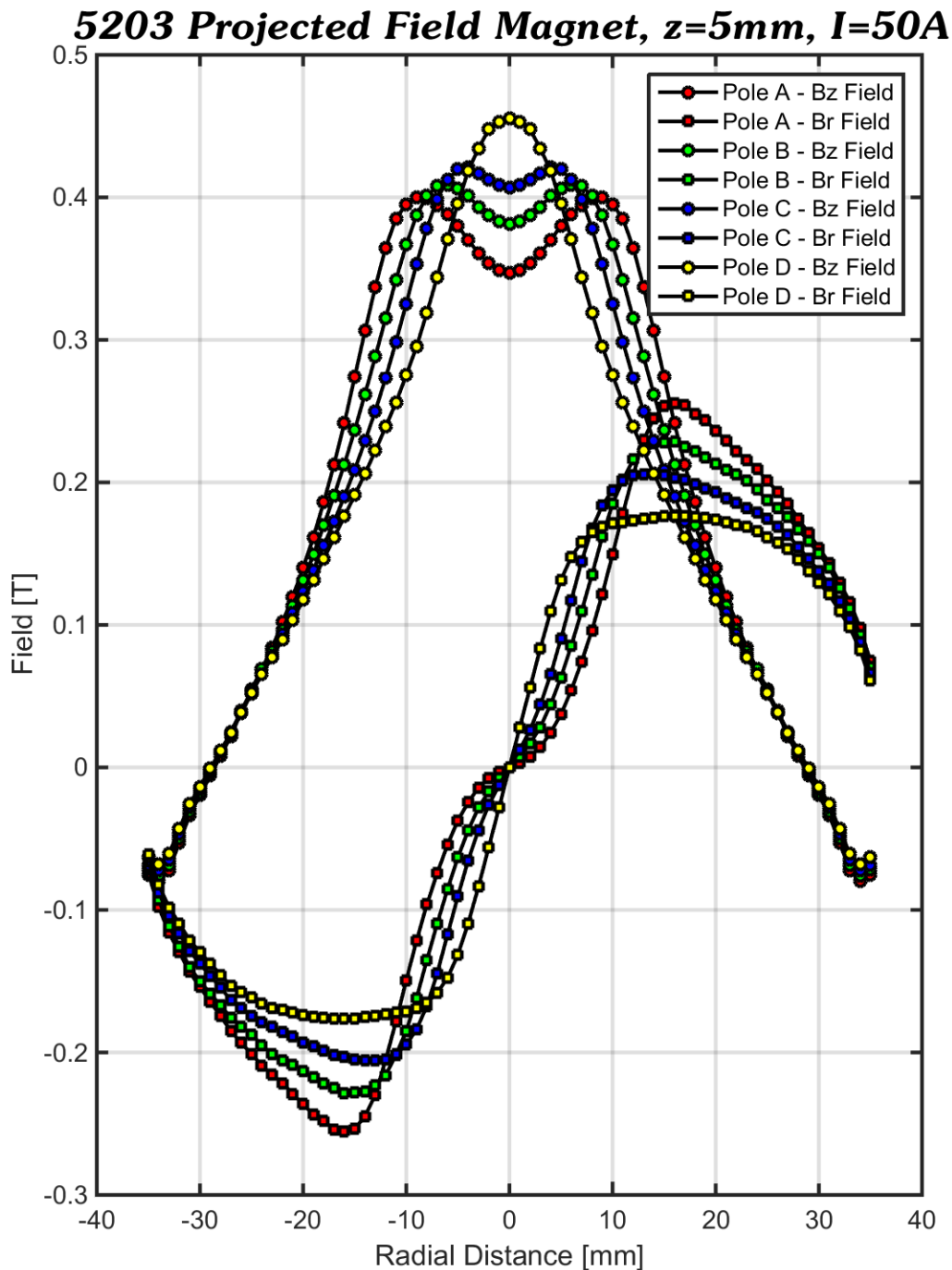
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

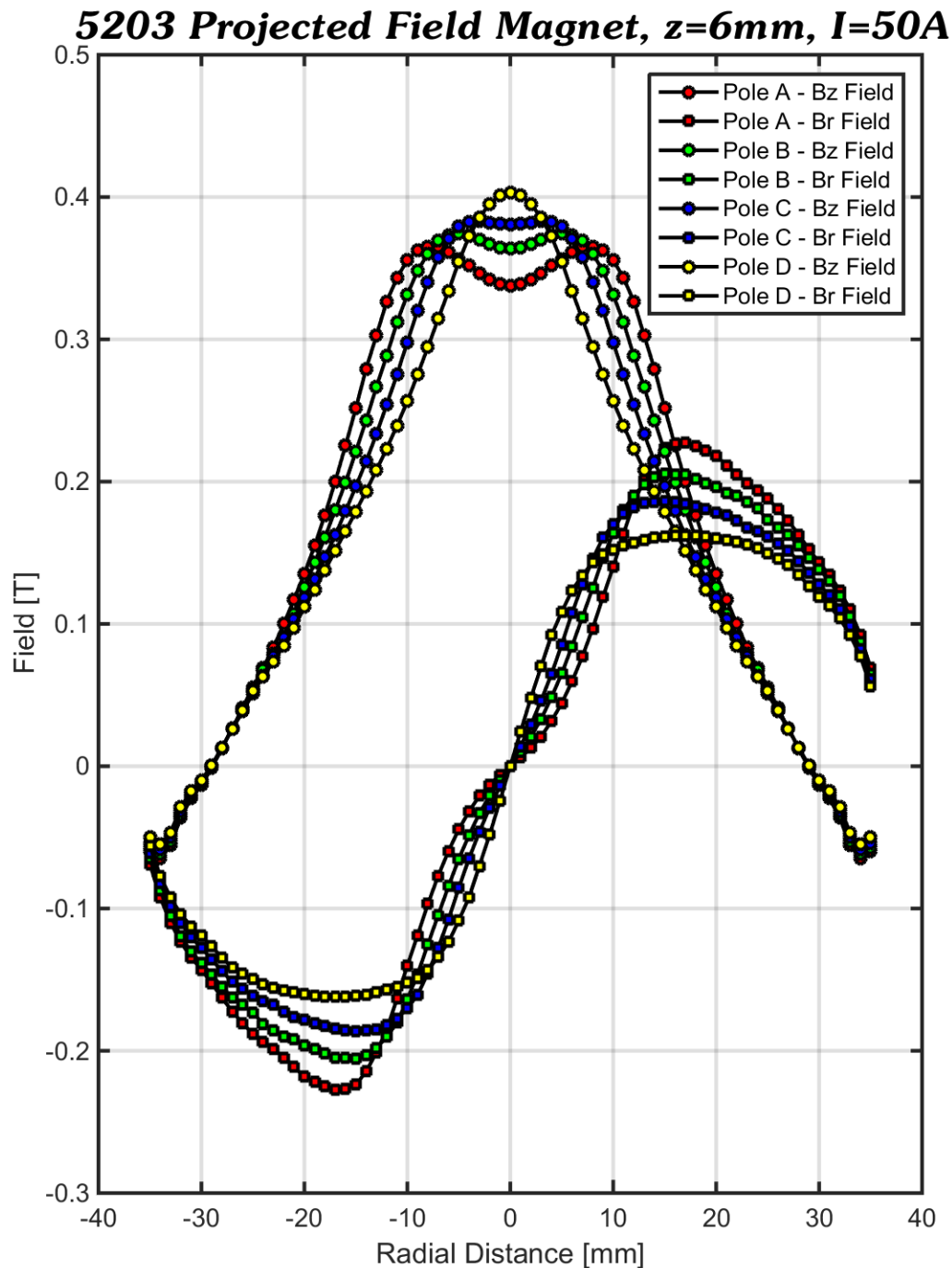
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

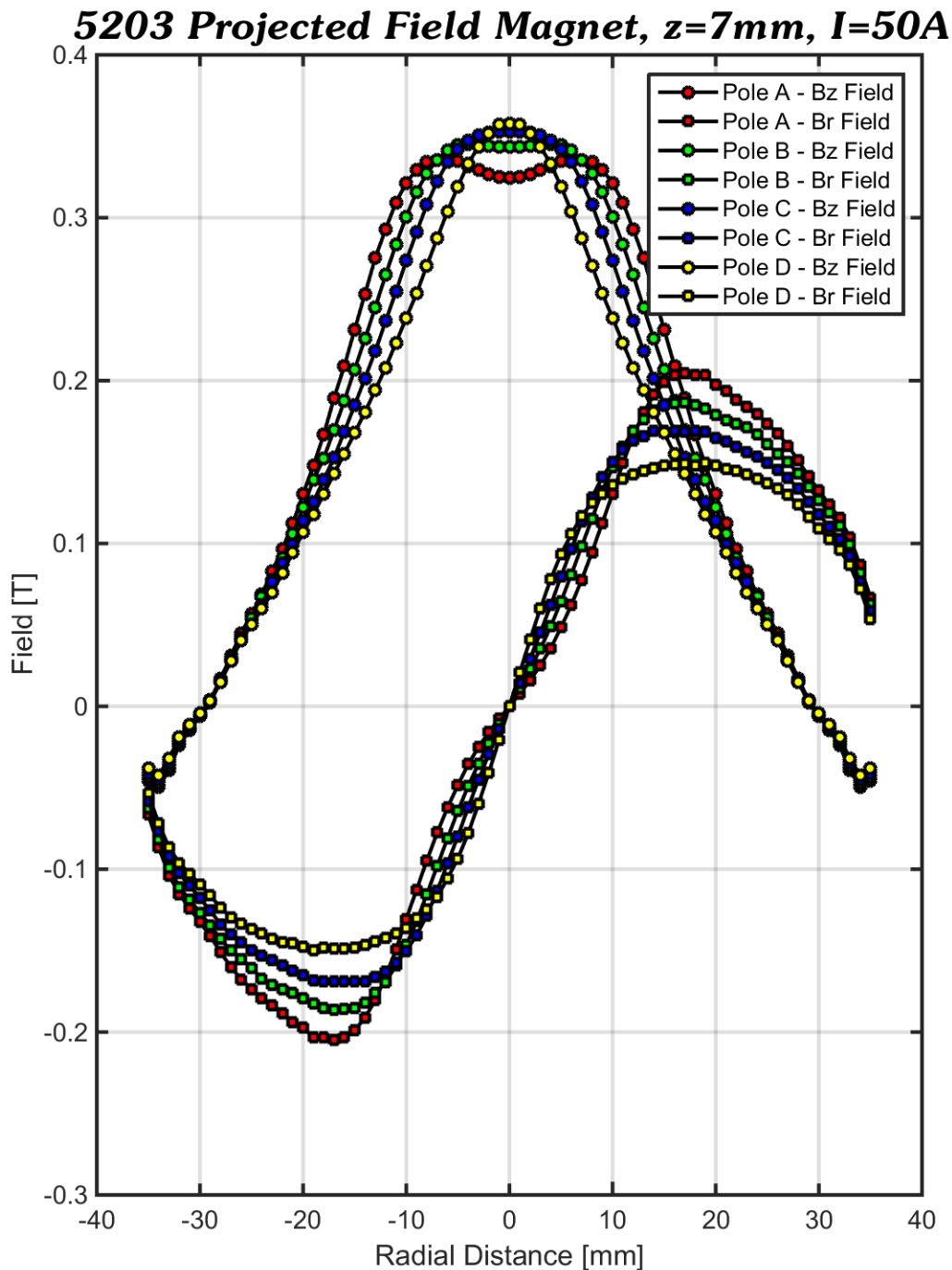
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

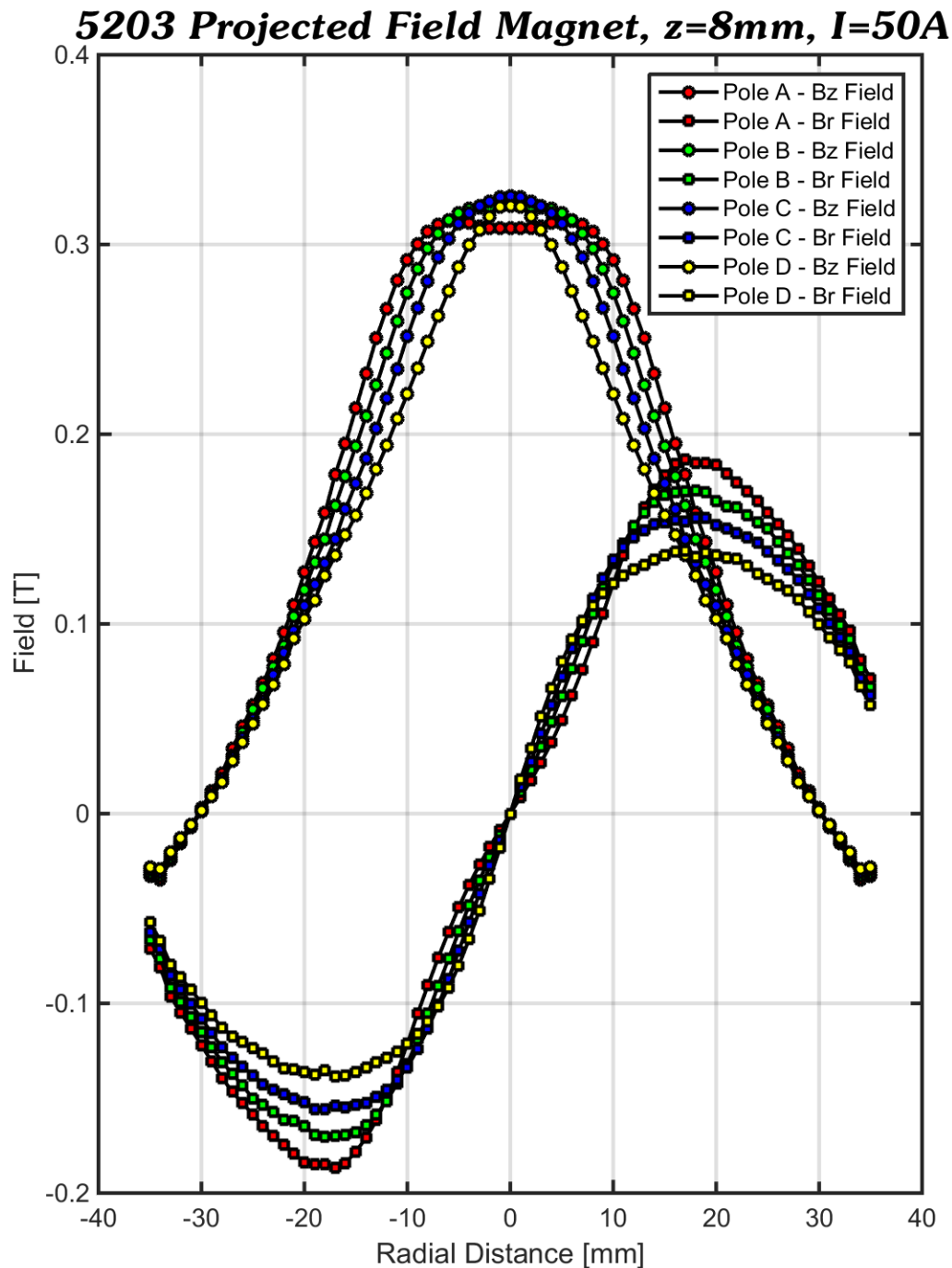
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

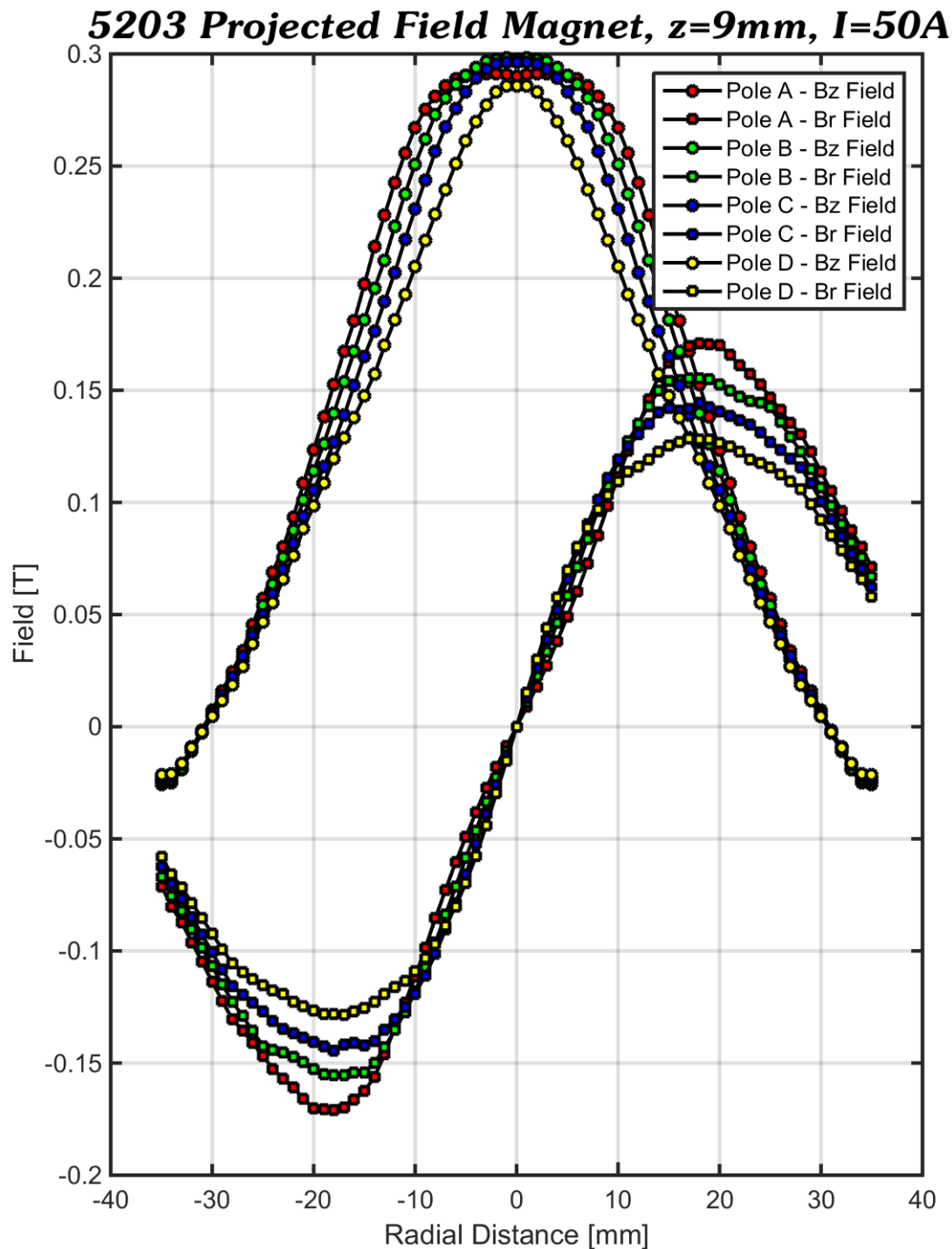
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

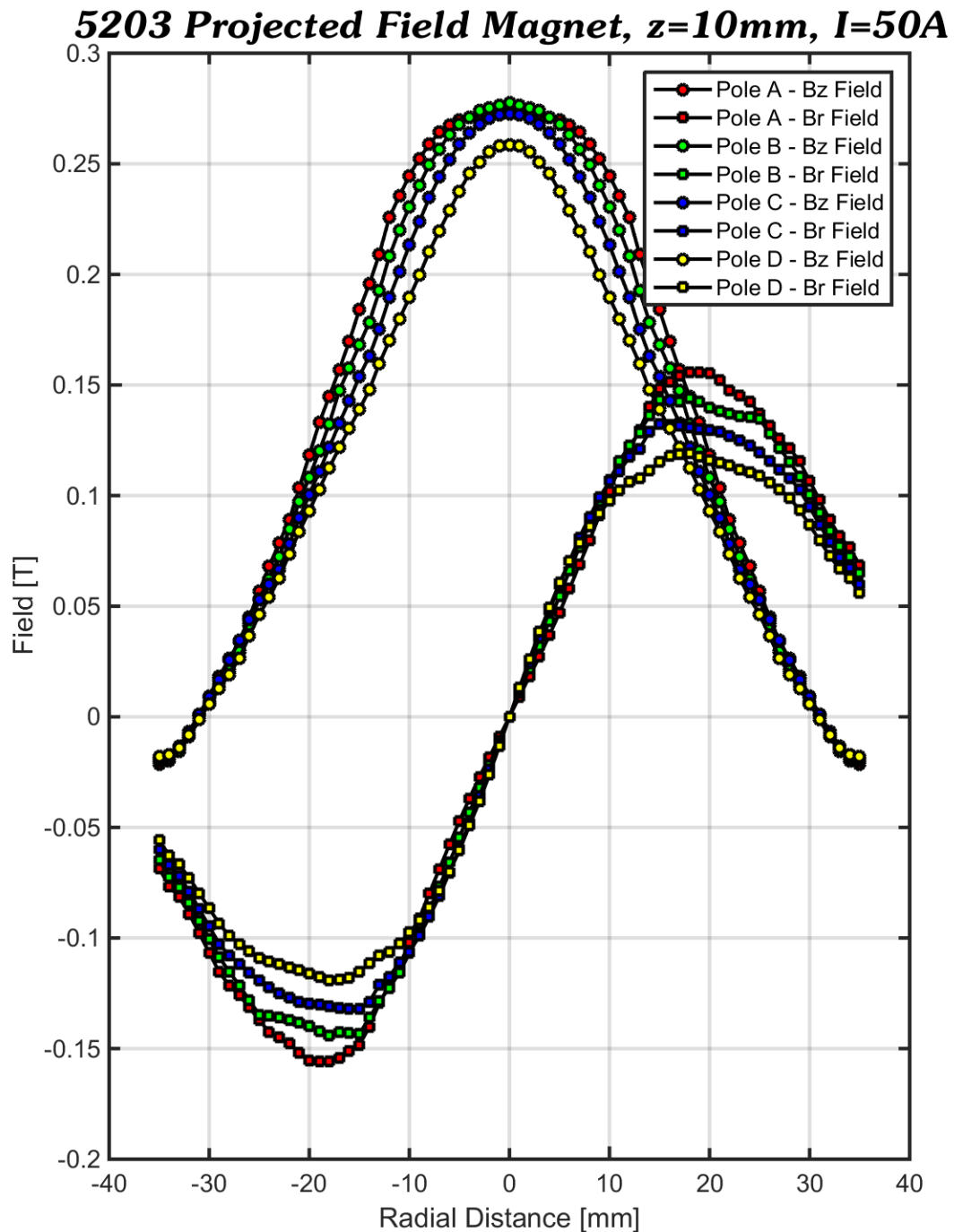
Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com



9 January 2018

GMW Associates • 955 Industrial Road • San Carlos, CA 94070 • USA

Tel +1 (650) 802-8292 • Fax +1 (650) 802-8298 • sales@gmw.com • www.gmw.com