

Driver Parameters

Driver: WESCOMPONENT HFR300-150-8

Nominal Diameter	D = 12	in
Nominal Power	P = 75	Watts
Sensitivity (1W/1m)	SPL = 87.67	dB SPL
Free Air Resonance	f(s) = 39	Hz
Total Q	Q(ts) = 0.768	
Electrical Q	Q(es) = 0.936	
Mechanical Q	Q(ms) = 4.269	
Equivalent Volume	V(as) = 3.004	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 150	Watts
Max Linear Excursion	X(max) = 9	mm
Max Excursion	X(lim) = 7	mm
Voice Coil Diam.	D(vc) = 51	mm

Driver Notes:

NOTE: S(D) was estimated based on the nominal driver diameter

System Notes:

Box Parameters

System Type: 4th Order Vented Box

Box Volume	V(B) = 2	cu ft
Closed Box Q	Q(tc) = 1.215	
Box Frequency	F(B) = 40	Hz
Vent Surface Area	S(v) = 25.13	sq in
Vent Length	L(v) = 17.12	in
Compliance Ratio	alpha = 1.502	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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160 F MARIANO AVENUE
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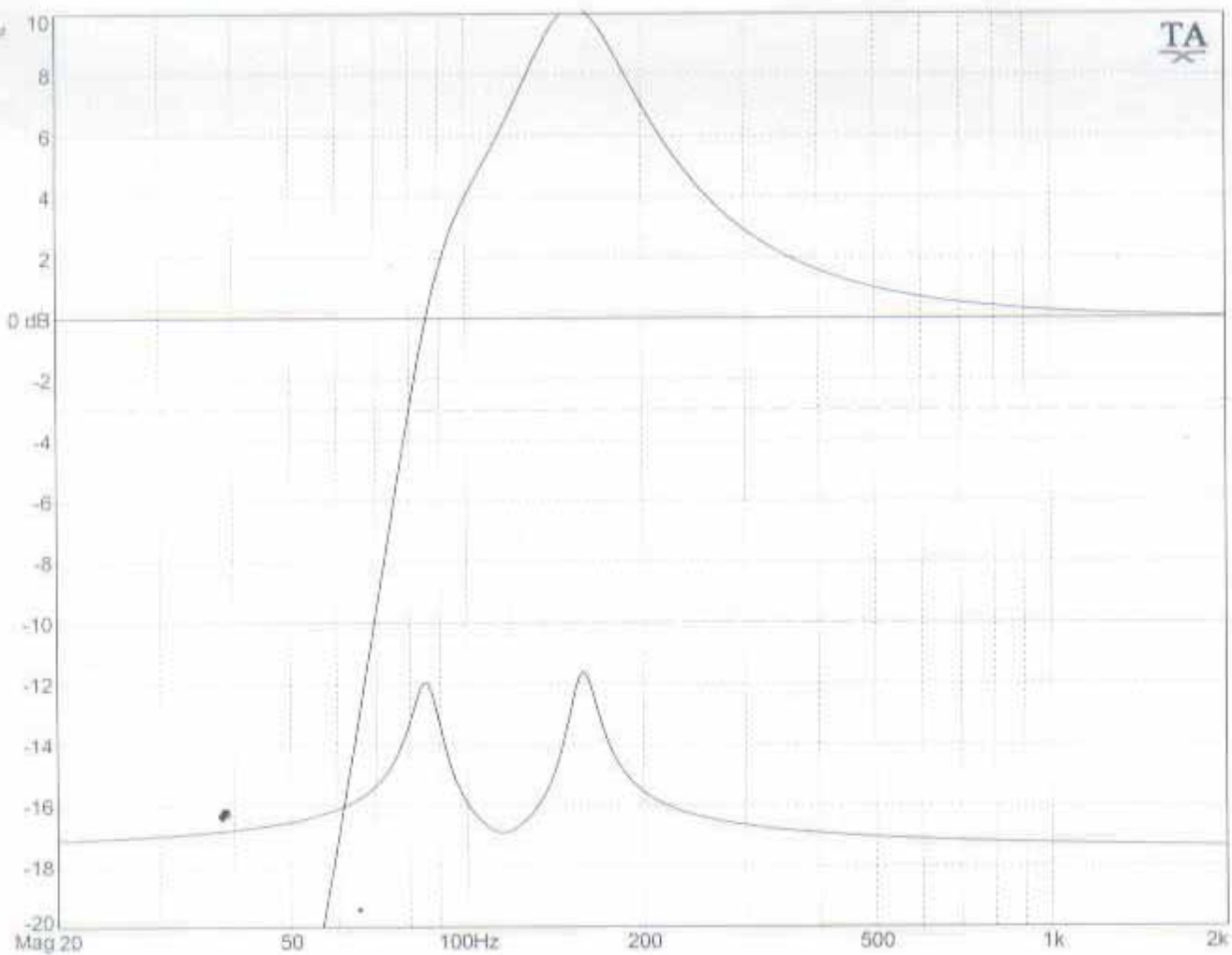
System Name:

4th Order Vented Box

Designer: RANDY MANGOSING
Title: PRODUCT DEVELOPER

Rev Date:

Rev:



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Driver Parameters

Driver: WESCOMPONENT HFR100-25-8

Nominal Diameter	D = 4	in
Nominal Power	P = 13	Watts
Sensitivity (1W/1m)	SPL = 83	dB SPL
Free Air Resonance	f(s) = 117	Hz
Total Q	Q(ts) = 1.34	
Electrical Q	Q(es) = 1.847	
Mechanical Q	Q(ms) = 7.23	
Equivalent Volume	V(as) = 0.0519	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 25	Watts
Max Linear Excursion	X(max) = 4	mm
Max Excursion	X(lim) = 6	mm
Voice Coil Diam.	D(vc) = 20	mm

Driver Notes:

System Notes:

Box Parameters

System Type: 4th Order Vented Box

Box Volume	V(B) = 0.14	cu ft
Closed Box Q	Q(tc) = 1.569	
Box Frequency	F(B) = 115	Hz
Vent Surface Area	S(v) = 3.142	sq in
Vent Length	L(v) = 3.131	in
Compliance Ratio	alpha = 0.3707	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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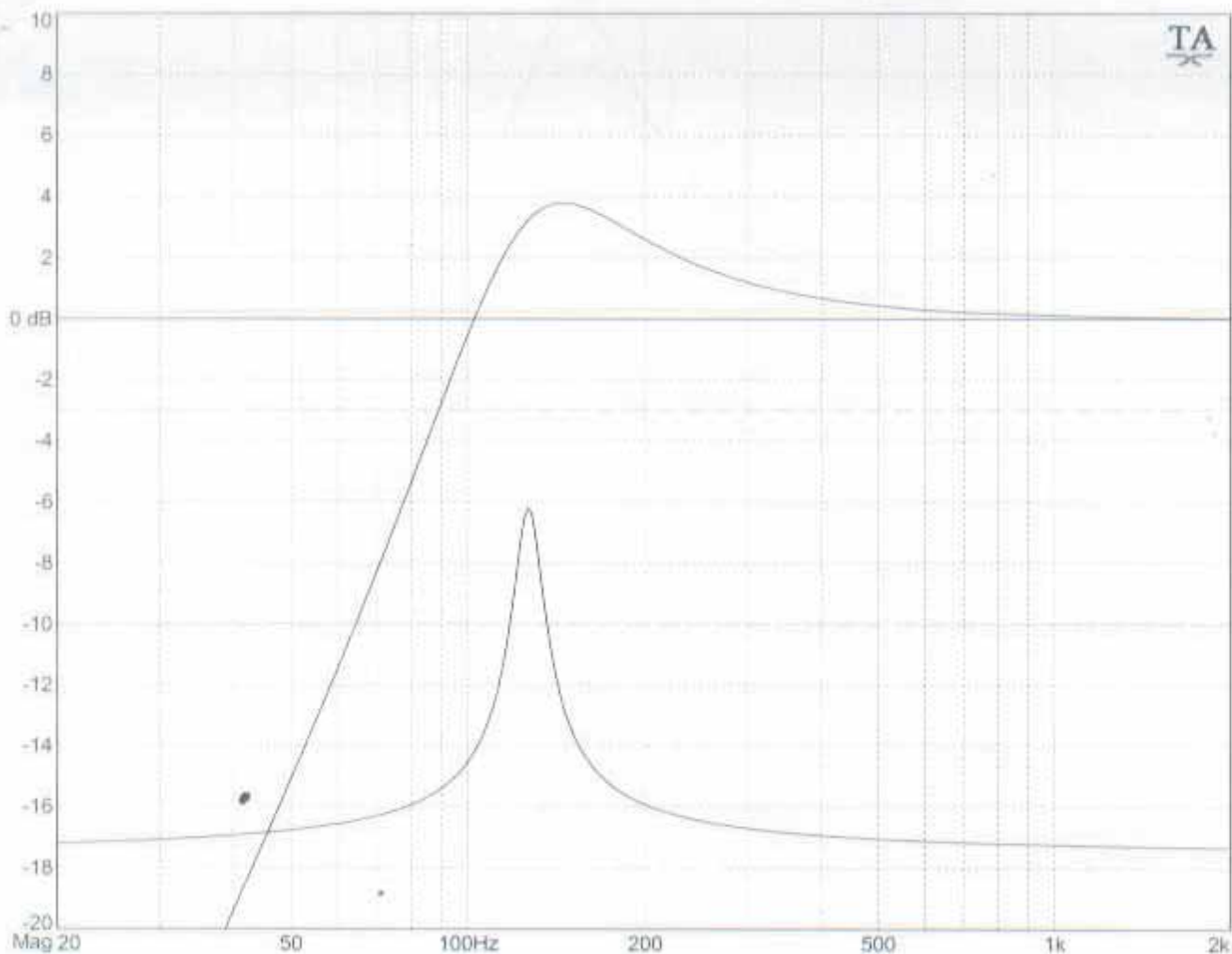
System Name:

4th Order Vented Box

Designer: RANDY MANGOSING
Title: PRODUCT DEVELOPER

Rev Date:

Rev:



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0 Ohm Imp

Driver Parameters

Driver: **WESCOMPONENT HFR100-25-8**

Nominal Diameter	D = 4	in
Nominal Power	P = 13	Watts
Sensitivity (1W/1m)	SPL = 83	dB SPL
Free Air Resonance	f(s) = 117	Hz
Total Q	Q(ts) = 1.34	
Electrical Q	Q(es) = 1.647	
Mechanical Q	Q(ms) = 7.23	
Equivalent Volume	V(as) = 0.0519	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 25	Watts
Max Linear Excursion	X(max) = 4	mm
Max Excursion	X(lim) = 6	mm
Voice Coil Diam.	D(vc) = 20	mm

Driver Notes:

System Notes:

Box Parameters

System Type: **2nd Order Closed Box**

Box Volume	V(B) = 0.3	cu ft
Closed Box Q	Q(tc) = 1.451	
System Resonance	F(sc) = 126.7	Hz
Compliance Ratio	alpha = 0.173	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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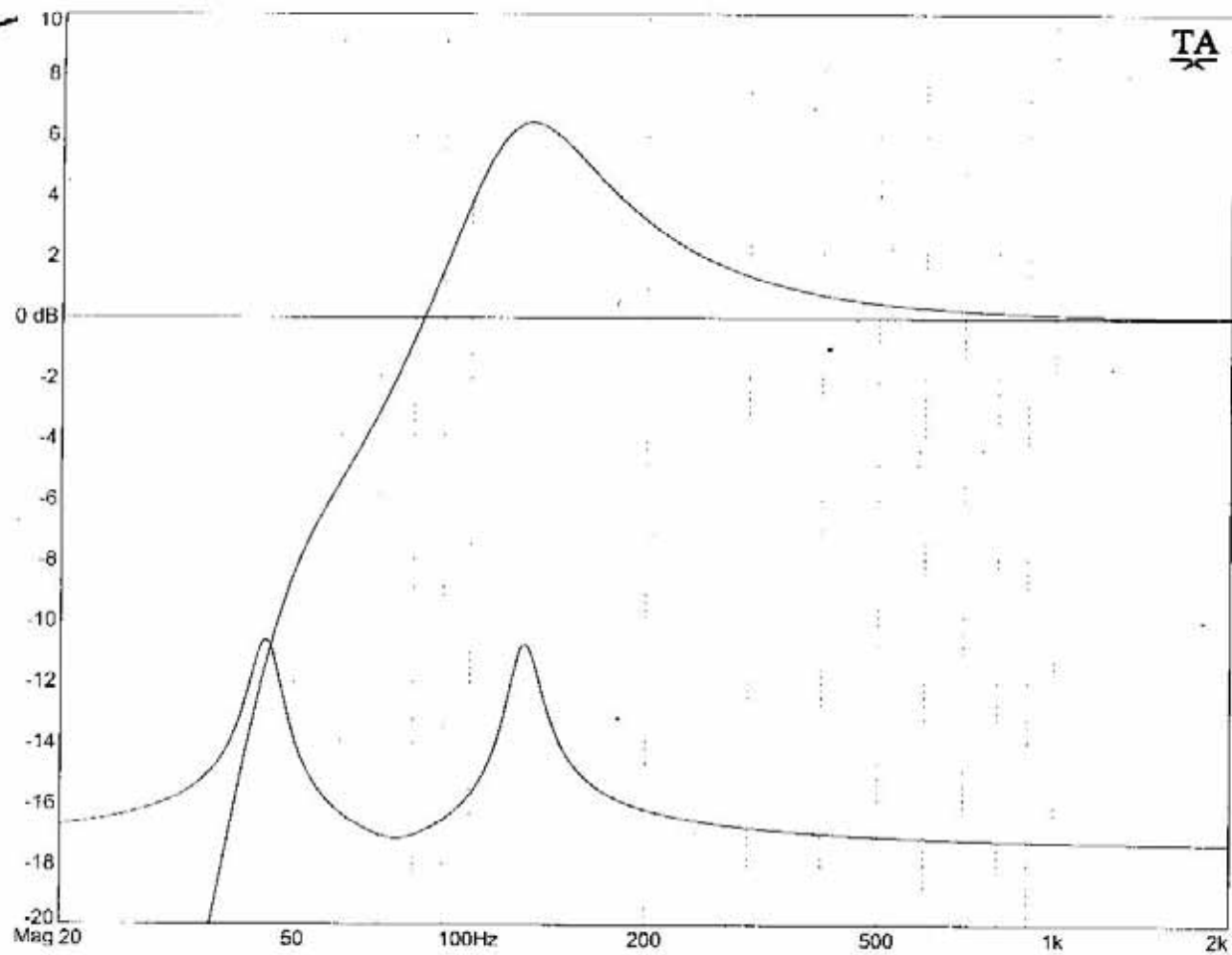
System Name:

2nd Order Closed Box

Designer: **RANDY MANGOSING**
Title: **PRODUCT DEVELOPER**

Rev. Date:

Rev:



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Driver Parameters

Driver: **WESCOMPONENT HFR125-30-8**

Nominal Diameter	D = 5.25	in
Nominal Power	P = 15	Watts
Sensitivity (1W/1m)	SPL = 85.49	dB SPL
Free Air Resonance	f(s) = 74.08	Hz
Total Q	Q(ts) = 0.903	
Electrical Q	Q(es) = 1.105	
Mechanical Q	Q(ms) = 4.925	
Equivalent Volume	V(as) = 0.2231	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 30	Watts
Max Linear Excursion	X(max) = 5	mm
Max Excursion	X(lim) = 7	mm
Voice Coil Diam.	D(vc) = 25.4	mm

Driver Notes:

NOTE: S(D) was estimated based on the nominal driver diameter.

System Notes:

Box Parameters

System Type: **4th Order Vented Box**

Box Volume	V(B) = 0.2	cu ft
Closed Box Q	Q(tc) = 1.313	
Box Frequency	F(B) = 75	Hz
Vent Surface Area	S(v) = 3.58	sq in
Vent Length	L(v) = 7.051	in
Compliance Ratio	alpha = 1.115	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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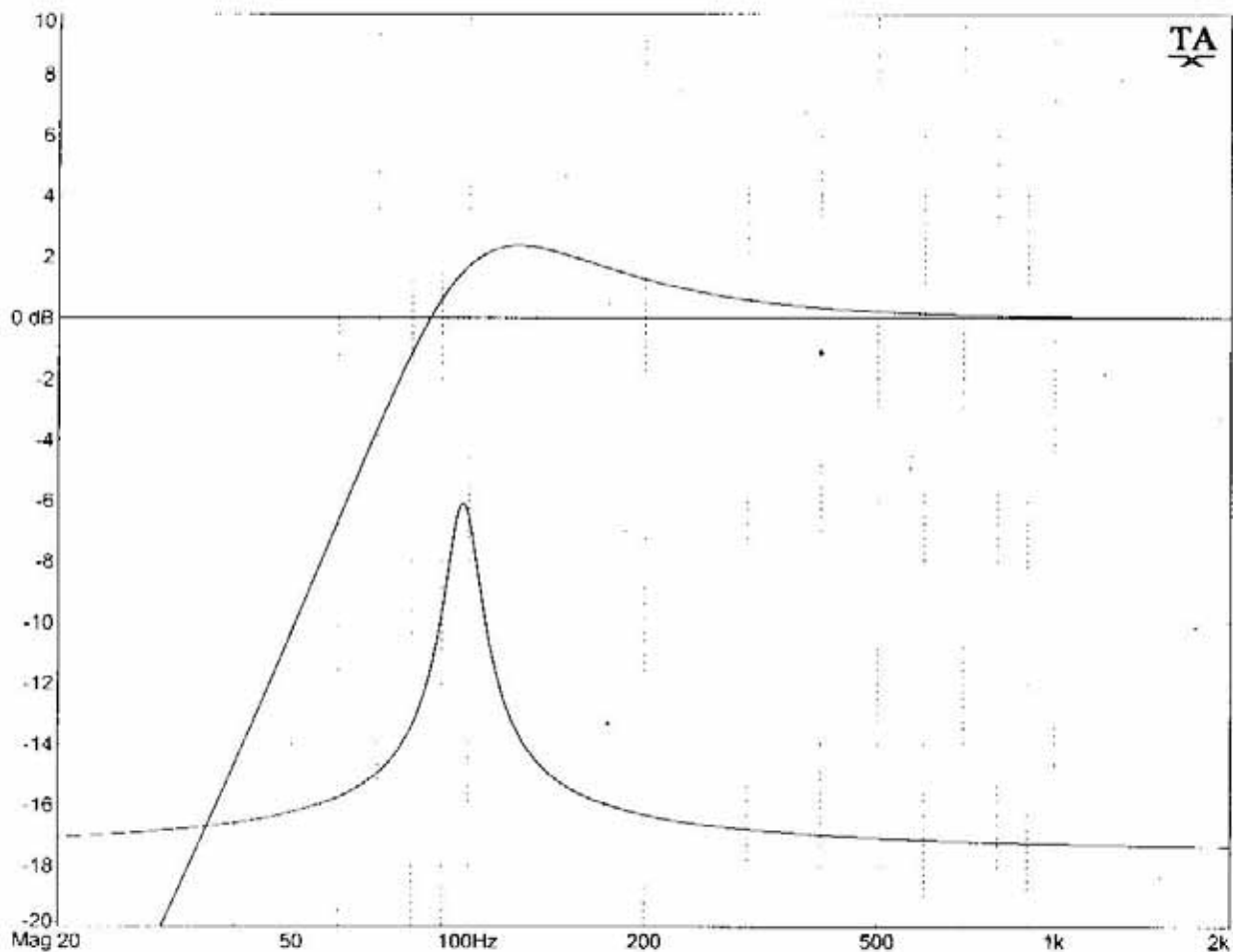
System Name:

4th Order Vented Box

Designer: **RANDY MANGOSING**
Title: **PRODUCT DEVELOPER**

Rev Date:

Rev:



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0 Ohm Imp

Driver Parameters

Driver: WESCOMPONENT HFR125-30-8

Nominal Diameter D = 5.25 in
 Nominal Power P = 15 Watts
 Sensitivity (1W/1m) SPL = 85.49 dB SPL
 Free Air Resonance f(s) = 74.08 Hz
 Total Q Q(ts) = 0.903
 Electrical Q Q(es) = 1.105
 Mechanical Q Q(ms) = 4.925
 Equivalent Volume V(as) = 0.2231 cu ft
 Nominal Impedance Z = 8 Ohms
 DC Resistance R(e) = 6.4 Ohms
 Max Thermal Power P(t) = 30 Watts
 Max Linear Excursion X(max) = 5 mm
 Max Excursion X(lim) = 7 mm
 Voice Coil Diam. D(vc) = 25.4 mm

Driver Notes:

System Notes:

Box Parameters

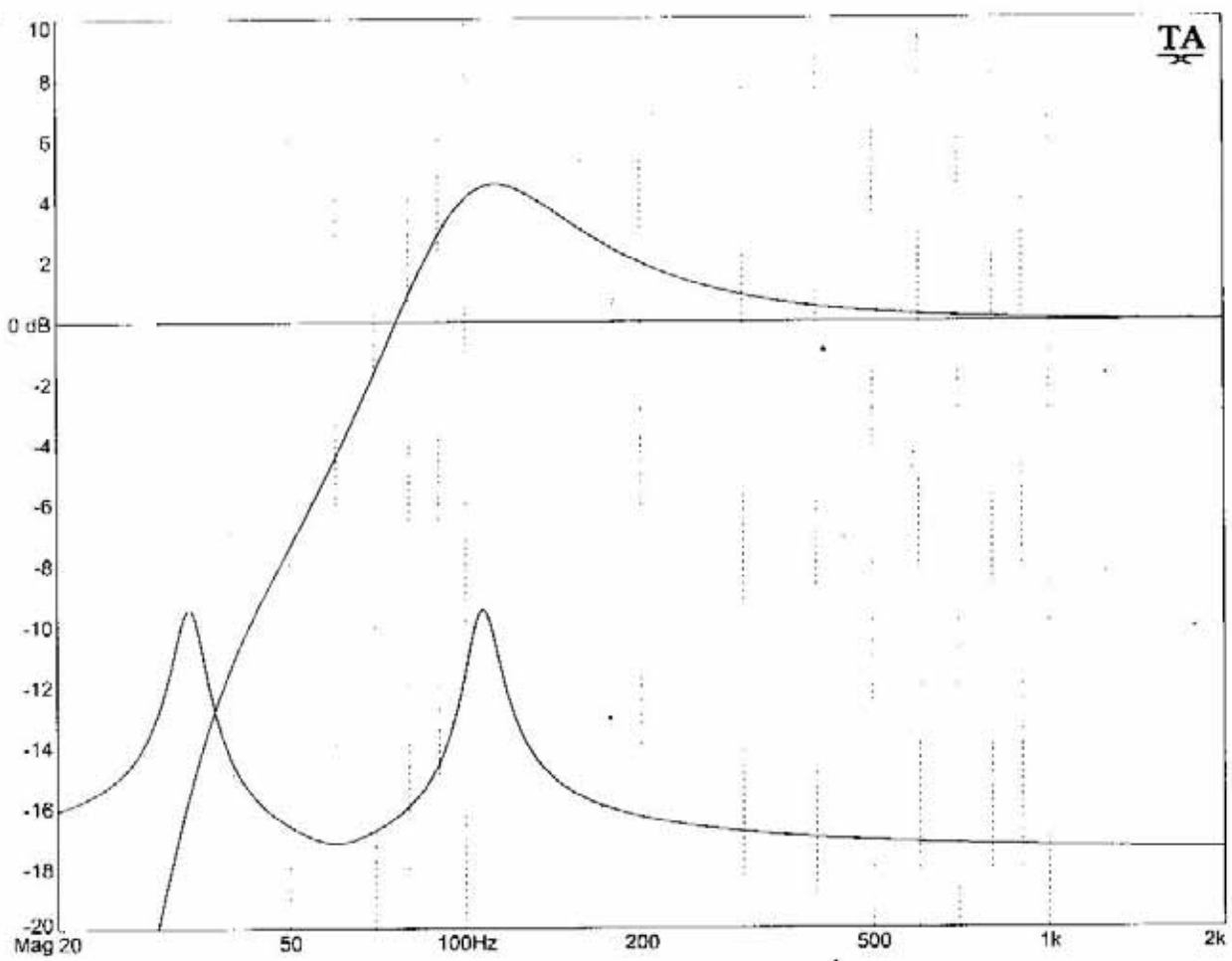
System Type: 2nd Order Closed Box

Box Volume V(B) = 0.3- cu ft
 Closed Box Q Q(tc) = 1.192
 System Resonance F(sc) = 97.83 Hz
 Compliance Ratio alpha = 0.7437

System Parameters

No. of Drivers N = 1
 Isobarik Factor I = 1 (1=normal, 2=iso)
 Input Power P(in) = 1 Watts
 SPL Distance D = 1 m

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System Name:	
2nd Order Closed Box	
Designer:	RANDY MANGOSING
Title:	PRODUCT DEVELOPER
Rev Date:	Rev:



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0 Ohm Imp

Driver Parameters

Driver: WESCOMPONENT HFR165-100-8

Nominal Diameter	D = 6.5	in
Nominal Power	P = 50	Watts
Sensitivity (1W/1m)	SPL = 87.67	dB SPL
Free Air Resonance	f(s) = 60	Hz
Total Q	Q(ts) = 0.71	
Electrical Q	Q(es) = 0.85	
Mechanical Q	Q(ms) = 4.36	
Equivalent Volume	V(as) = 0.5862	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.3	Ohms
Max Thermal Power	P(t) = 100	Watts
Max Linear Excursion	X(max) = 6	mm
Max Excursion	X(lim) = 8	mm
Voice Coil Diam.	D(vc) = 32	mm

Driver Notes:

NOTE: Reference Efficiency was calculated based on the 1W/1m sensitivity.

System Notes:

Box Parameters

System Type: 4th Order Vented Box

Box Volume	V(B) = 0.4	cu ft
Closed Box Q	Q(tc) = 1.115	
Box Frequency	F(B) = 60	Hz
Vent Surface Area	S(v) = 3.142	sq in
Vent Length	L(v) = 4.443	in
Compliance Ratio	alpha = 1.466	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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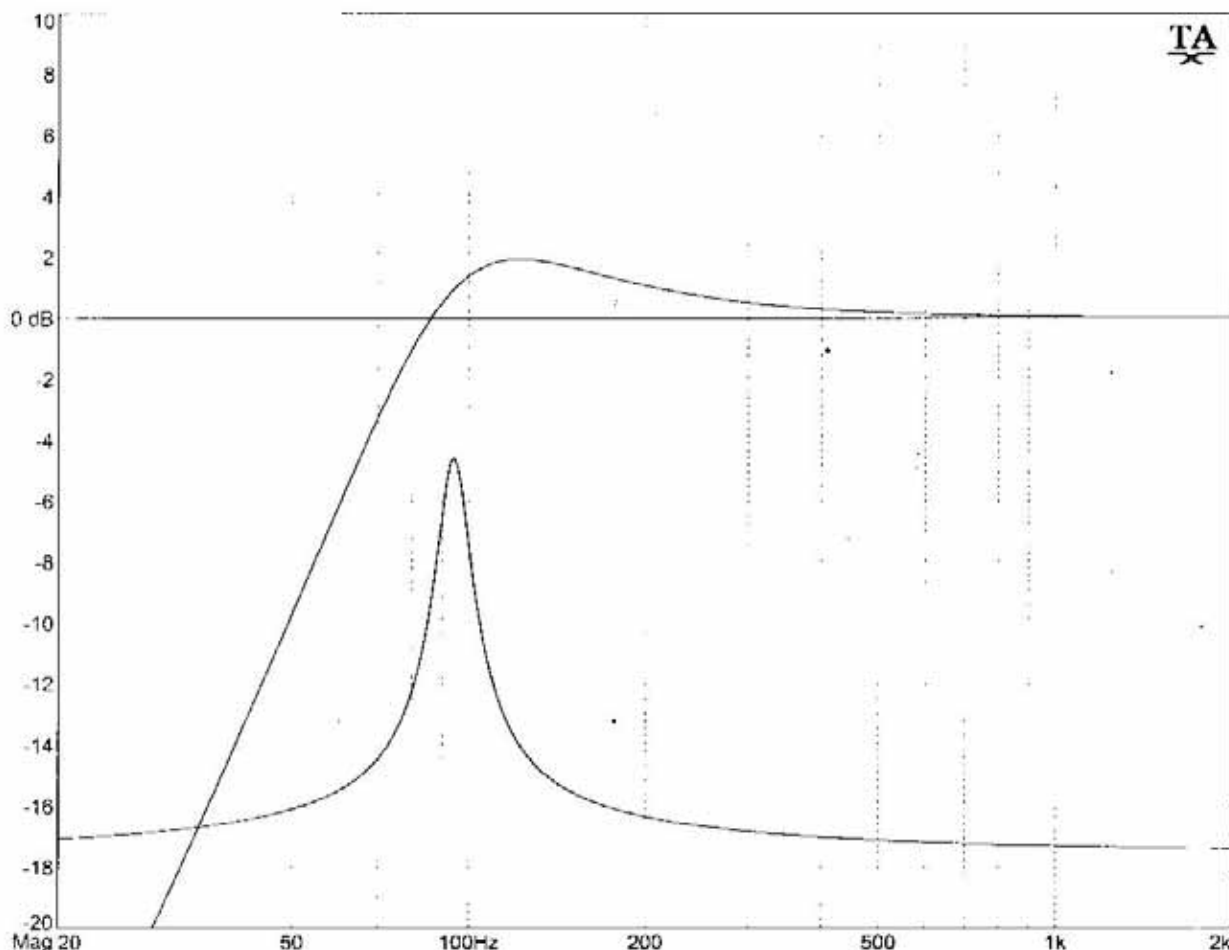
System Name:

4th Order Vented Box

Designer: RANDY MANGOSING
Title: PRODUCT DEVELOPER

Rev Date:

Rev:



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Driver Parameters

Driver: **WESCOMPONENT HFR165-100-8**

Nominal Diameter	D = 6.5	in
Nominal Power	P = 50	Watts
Sensitivity (1W/1m)	SPL = 87.67	dB SPL
Free Air Resonance	f(s) = 60	Hz
Total Q	Q(ts) = 0.71	
Electrical Q	Q(es) = 0.85	
Mechanical Q	Q(ms) = 4.36	
Equivalent Volume	V(as) = 0.5862	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.3	Ohms
Max Thermal Power	P(t) = 100	Watts
Max Linear Excursion	X(max) = 6	mm
Max Excursion	X(lim) = 8	mm
Voice Coil Diam.	D(vc) = 32	mm

Driver Notes:

NOTE: Reference Efficiency was calculated based on the 1W/1m sensitivity.

System Notes:

Box Parameters

System Type: **2nd Order Closed Box**

Box Volume	V(B) = 0.4	cu ft
Closed Box Q	Q(tc) = 1.115	
System Resonance	F(sc) = 94.21	Hz
Compliance Ratio	alpha = 1.466	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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System Name:

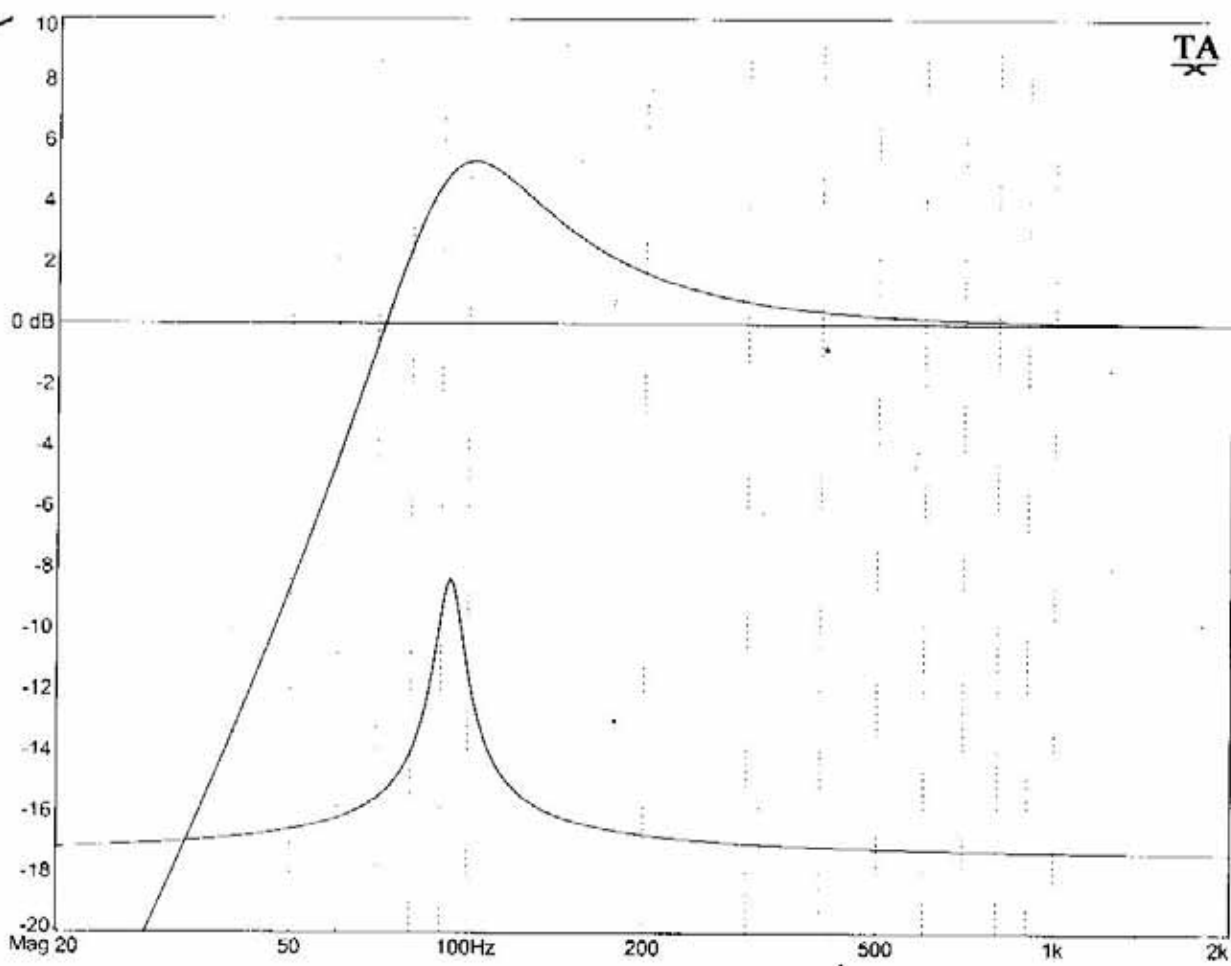
2nd Order Closed Box

Designer: **RANDY MANGOSING**
Title: **PRODUCT DEVELOPER**

Rev Date:

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Driver Parameters

Driver: **WESCOMPONENT HFR165-50-8**

Nominal Diameter	D = 6.5	in
Nominal Power	P = 25	Watts
Sensitivity (1W/1m)	SPL = 86	dB SPL
Free Air Resonance	f(s) = 58	Hz
Total Q	Q(ts) = 1.099	
Electrical Q	Q(es) = 1.41	
Mechanical Q	Q(ms) = 4.993	
Equivalent Volume	V(as) = 0.6351	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 50	Watts
Max Linear Excursion	X(max) = 6	mm
Max Excursion	X(lim) = 8	mm
Voice Coil Diam.	D(vc) = 25.4	mm

Driver Notes:

System Notes:

Box Parameters

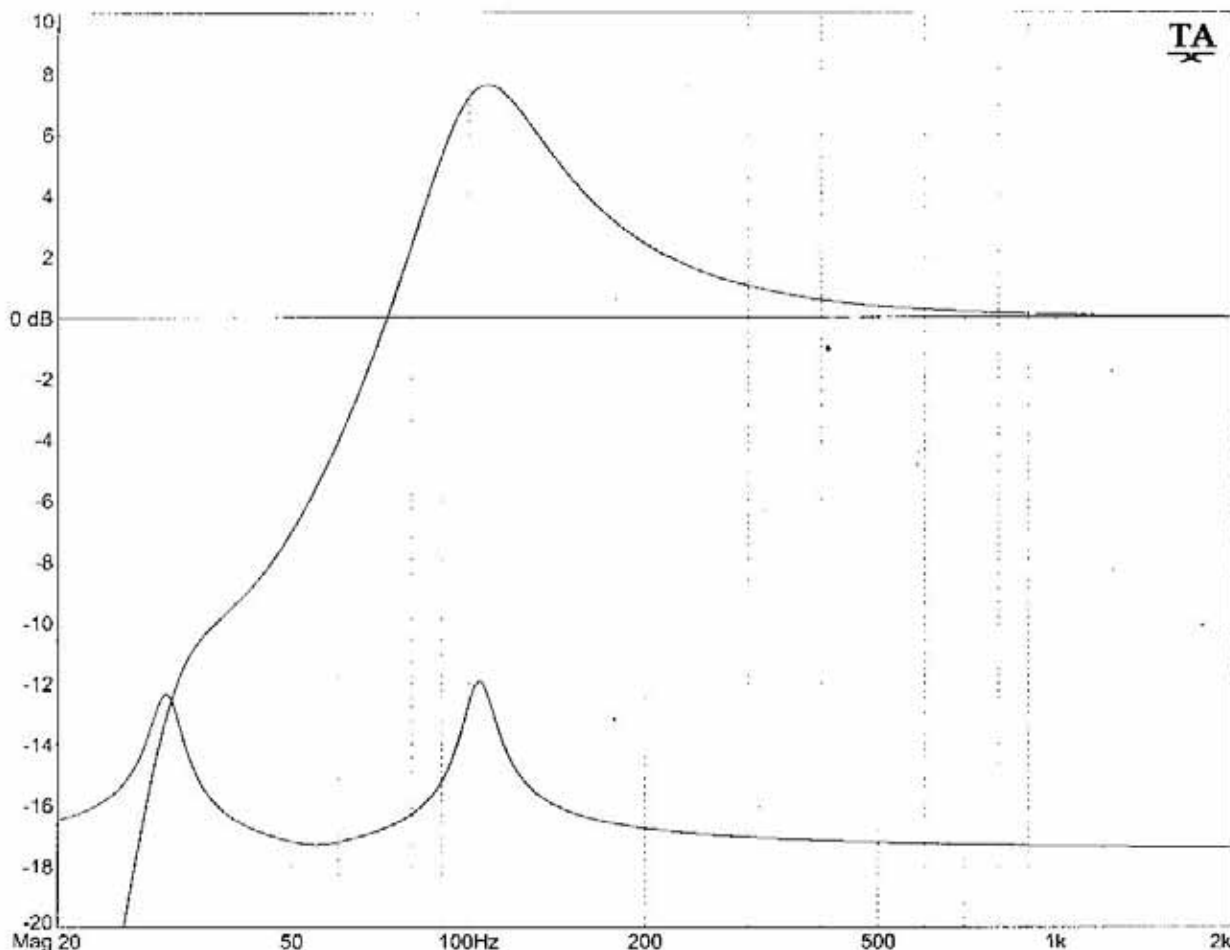
System Type: **2nd Order Closed Box**

Box Volume	V(B) = 0.4	cu ft
Closed Box Q	Q(tc) = 1.768	
System Resonance	F(sc) = 93.3	Hz
Compliance Ratio	alpha = 1.588	

System Parameters

No. of Drivers	N = 1	
Isobaric Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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System Name:	
2nd Order Closed Box	
Designer:	RANDY MANGOSING
Title:	PRODUCT DEVELOPER
Rev Date:	Rev:



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0 Ohm
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Driver Parameters

Driver: WESCOMPONENT HFR165-50-8

Nominal Diameter	D = 6.5	in
Nominal Power	P = 25	Watts
Sensitivity (1W/1m)	SPL = 86	dB SPL
Free Air Resonance	f(s) = 58	Hz
Total Q	Q(ts) = 1.099	
Electrical Q	Q(es) = 1.41	
Mechanical Q	Q(ms) = 4.993	
Equivalent Volume	V(as) = 0.6351	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 50	Watts
Max Linear Excursion	X(max) = 6	mm
Max Excursion	X(lim) = 8	mm
Voice Coil Diam.	D(vc) = 25.4	mm

Driver Notes:

System Notes:

Box Parameters

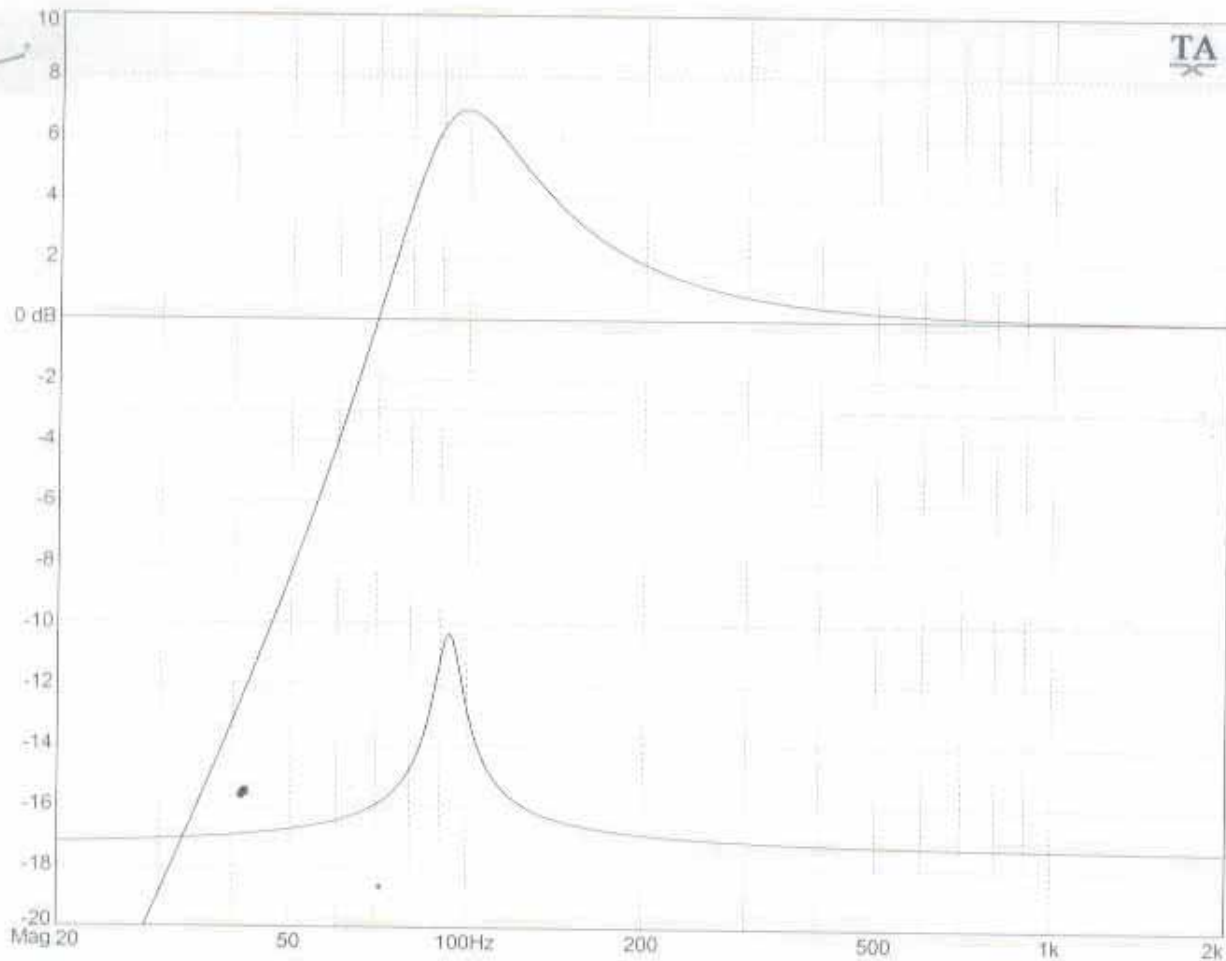
System Type: 4th Order Vented Box

Box Volume	V(B) = 0.4	cu ft
Closed Box Q	Q(tc) = 1.768	
Box Frequency	F(B) = 55	Hz
Vent Surface Area	S(v) = 3.142	sq in
Vent Length	L(v) = 5.565	in
Compliance Ratio	alpha = 1.588	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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System Name:	
4th Order Vented Box	
Designer:	RANDY MANGOSING
Title:	PRODUCT DEVELOPER
Rev Date:	Rev:



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Driver Parameters

Driver: **WESCOMPONENT HFR200-100-8**

Nominal Diameter	D = 8	in
Nominal Power	P = 50	Watts
Sensitivity (1W/1m)	SPL = 86	dB SPL
Free Air Resonance	f(s) = 55	Hz
Total Q	Q(ts) = 1.268	
Electrical Q	Q(es) = 1.724	
Mechanical Q	Q(ms) = 4.799	
Equivalent Volume	V(as) = 0.9362	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 100	Watts
Max Linear Excursion	X(max) = 6	mm
Max Excursion	X(lim) = 8	mm
Voice Coil Diam.	D(vc) = 38	mm

Driver Notes:

System Notes:

Box Parameters

System Type: **2nd Order Closed Box**

Box Volume	V(B) = 0.5	cu ft
Closed Box Q	Q(tc) = 2.149	
System Resonance	F(sc) = 93.22	Hz
Compliance Ratio	alpha = 1.872	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	l = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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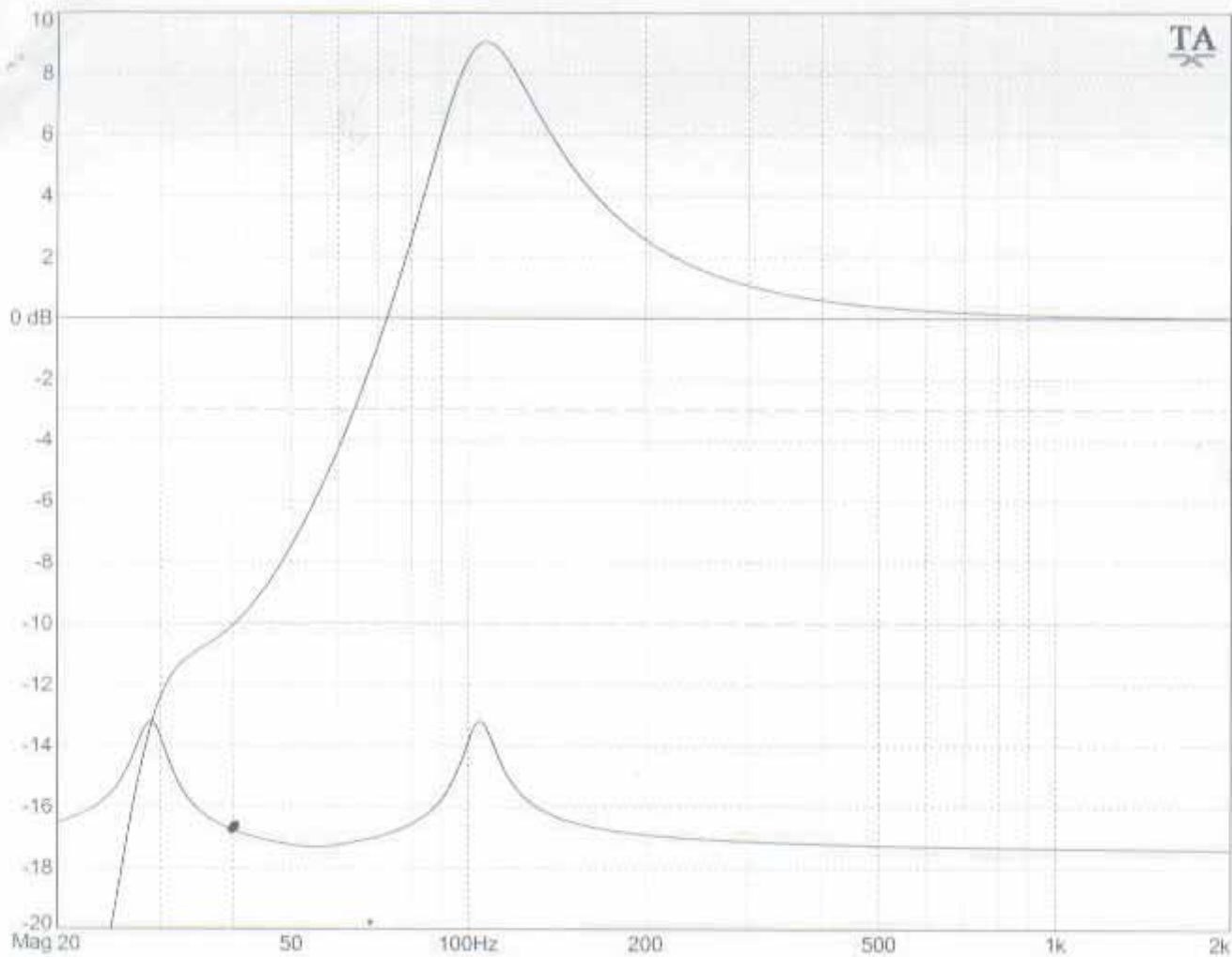
System Name:

2nd Order Closed Box

Designer: RANDY MANGOSING
Title: PRODUCT DEVELOPER

Rev Date:

Rev:



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0 Ohm
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Driver Parameters

Driver: **WESCOMPONENT HFR200-100-8**

Nominal Diameter	D = 8	in
Nominal Power	P = 50	Watts
Sensitivity (1W/1m)	SPL = 86	dB SPL
Free Air Resonance	f(s) = 55	Hz
Total Q	Q(ts) = 1.268	
Electrical Q	Q(es) = 1.724	
Mechanical Q	Q(ms) = 4.799	
Equivalent Volume	V(as) = 0.9362	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 100	Watts
Max Linear Excursion	X(max) = 6	mm
Max Excursion	X(lim) = 8	mm
Voice Coil Diam.	D(vc) = 38	mm

Driver Notes:

System Notes:

Box Parameters

System Type: **4th Order Vented Box**

Box Volume	V(B) = 0.5	cu ft
Closed Box Q	Q(tc) = 2.149	
Box Frequency	F(B) = 55	Hz
Vent Surface Area	S(v) = 6.283	sq in
Vent Length	L(v) = 9.174	in
Compliance Ratio	alpha = 1.872	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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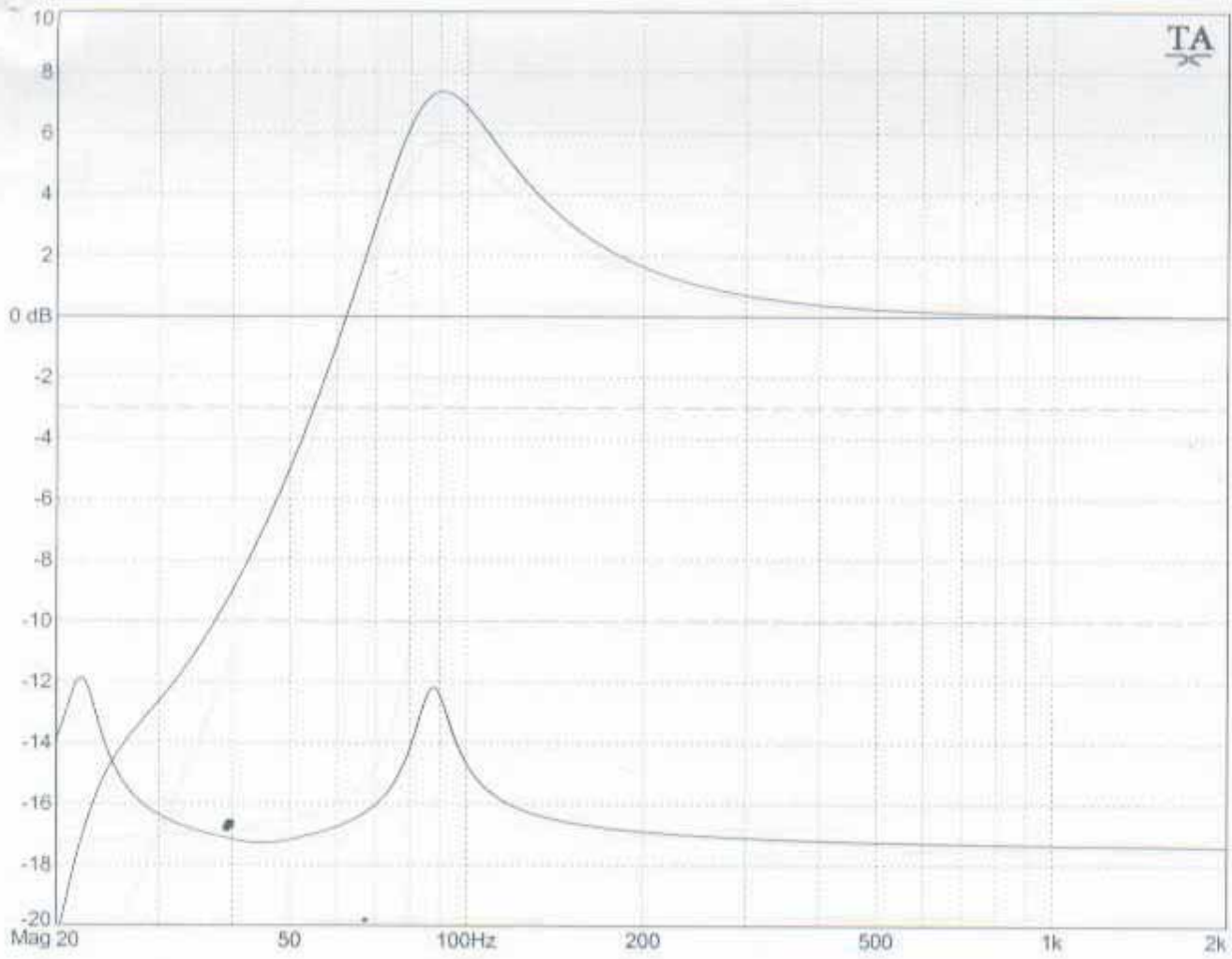
System Name:

4th Order Vented Box

Designer: **RANDY MANGOSING**
Title: **PRODUCT DEVELOPER**

Rev. Date:

Rev:



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0 Ohm Imp

Driver Parameters

Driver: **WESCOMPONENT HFR200-50-8**

Nominal Diameter	D = 12	in
Nominal Power	P = 25	Watts
Sensitivity (1W/1m)	SPL = 85.5	dB SPL
Free Air Resonance	f(s) = 43	Hz
Total Q	Q(ts) = 0.961	
Electrical Q	Q(es) = 1.245	
Mechanical Q	Q(ms) = 4.2	
Equivalent Volume	V(as) = 1.265	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 50	Watts
Max Linear Excursion	X(max) = 6	mm
Max Excursion	X(lim) = 8	mm
Voice Coil Diam.	D(vc) = 38	mm

Driver Notes:

System Notes:

Box Parameters

System Type: **4th Order Vented Box**

Box Volume	V(B) = 0.55	cu ft
Closed Box Q	Q(tc) = 1.746	
Box Frequency	F(B) = 45	Hz
Vent Surface Area	S(v) = 5.089	sq in
Vent Length	L(v) = 10.5	in
Compliance Ratio	alpha = 2.301	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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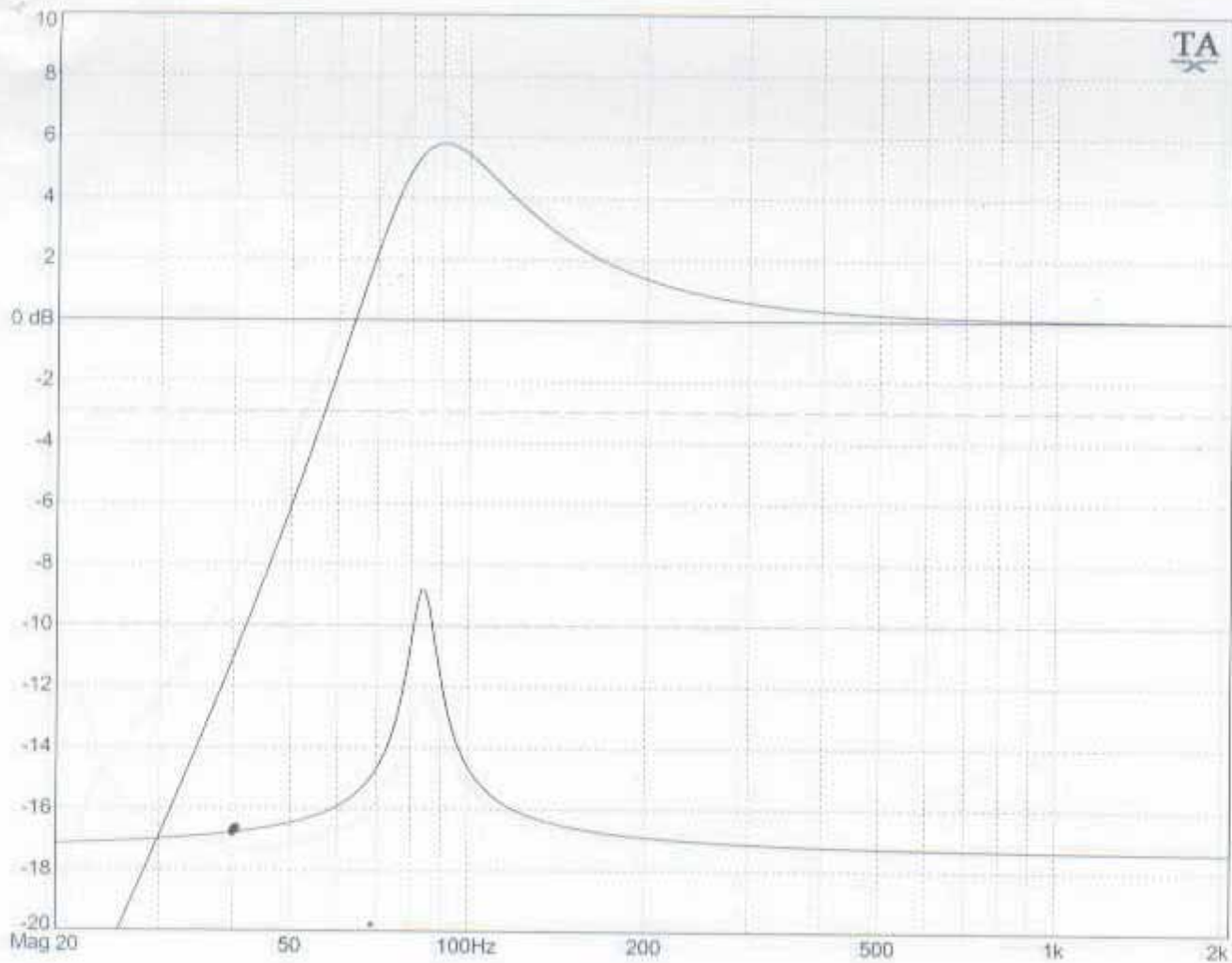
System Name:

4th Order Vented Box

Designer: **RANDY MANGOSING**
Title: **PRODUCT DEVELOPER**

Rev. Date:

Rev:



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0 Ohm Imp

Driver Parameters

Driver: **WESCOMPONENT HFR200-50-8**

Nominal Diameter	D = 12	in
Nominal Power	P = 25	Watts
Sensitivity (1W/1m)	SPL = 85.5	dB SPL
Free Air Resonance	f(s) = 43	Hz
Total Q	Q(ts) = 0.961	
Electrical Q	Q(es) = 1.245	
Mechanical Q	Q(ms) = 4.2	
Equivalent Volume	V(as) = 1.265	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 50	Watts
Max Linear Excursion	X(max) = 6	mm
Max Excursion	X(lim) = 8	mm
Voice Coil Diam.	D(vc) = 38	mm

Driver Notes:

System Notes:

Box Parameters

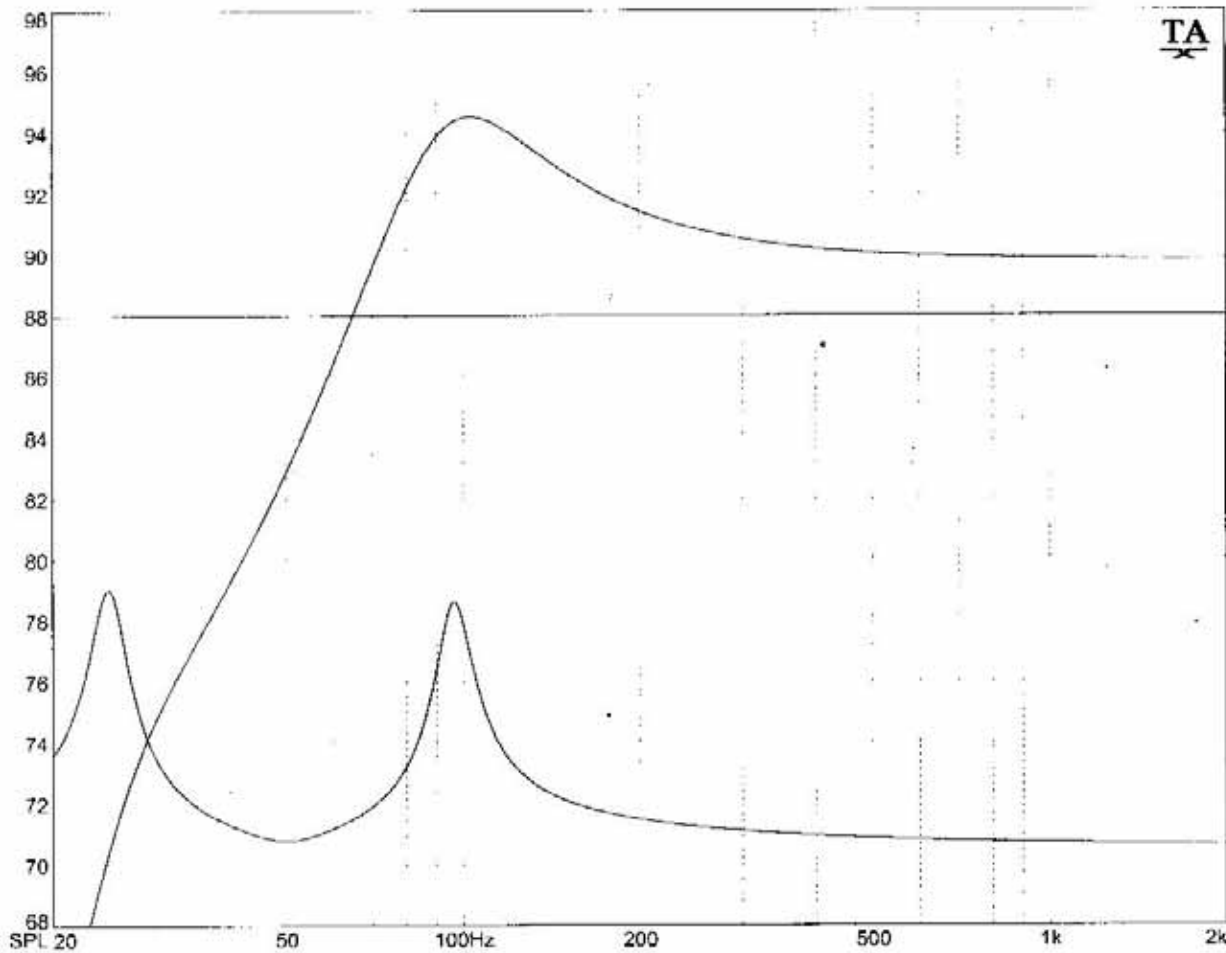
System Type: **2nd Order Closed Box**

Box Volume	V(B) = 0.45	cu ft
Closed Box Q	Q(tc) = 1.876	
System Resonance	F(sc) = 83.95	Hz
Compliance Ratio	alpha = 2.812	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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160F MARIANO AVENUE PASIG CITY PHILIPPINES	
TEL NO: 6456639	
System Name: 2nd Order Closed Box	
Designer:	RANDY MANGOSING
Title:	PRODUCT DEVELOPER
Rev. Date:	REV:



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Driver Parameters

Driver: **WESCOMPONENT HFR250-150-8**

Nominal Diameter	D = 10	in
Nominal Power	P = 0	Watts
Sensitivity (1W/1m)	SPL = 89.8	dB SPL
Free Air Resonance	f(s) = 48	Hz
Total Q	Q(ts) = 0.684	
Electrical Q	Q(es) = 0.817	
Mechanical Q	Q(ms) = 4.2	
Equivalent Volume	V(as) = 1.747	cu ft
Nominal Impedance	Z = 0	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 150	Watts
Max Linear Excursion	X(max) = .7	mm
Max Excursion	X(lim) = .9	mm
Voice Coil Diam.	D(vc) = 51	mm

Driver Notes:

System Notes:

Box Parameters

System Type: **4th Order Vented Box**

Box Volume	V(B) = 0.8	cu ft
Closed Box Q	Q(tc) = 1.22	
Box Frequency	F(B) = 50	Hz
Vent Surface Area	S(v) = 14.14	sq in
Vent Length	L(v) = 16.03	in
Compliance Ratio	alpha = 2.183	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

ADVANCE STI

160F MARIANO AVENUE
PASIG CITY PHILIPPINES
TEL NO: 6456639

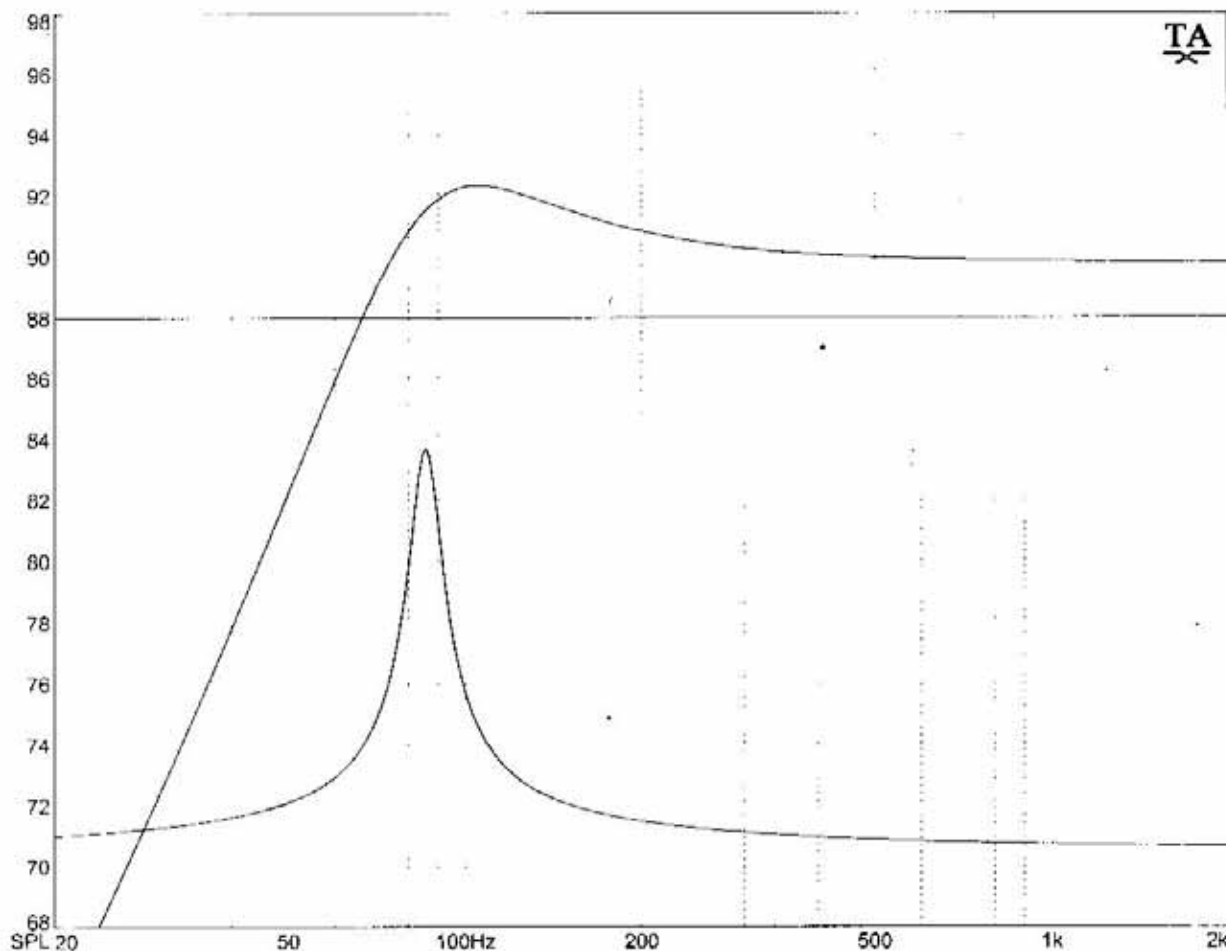
System Name:

4th Order Vented Box

Designer: **RMANGOSING**
Title: **PRODUCT DEVELOPER**

Rev Date:

Rev:



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Driver Parameters

Driver: WESCOMPONENT HFR250-150-8

Nominal Diameter	D = 10	in
Nominal Power	P = 75	Watts
Sensitivity (1W/1m)	SPL = 89.8	dB SPL
Free Air Resonance	f(s) = 48	Hz
Total Q	Q(ts) = 0.684	
Electrical Q	Q(es) = 0.817	
Mechanical Q	Q(ms) = 4.2	
Equivalent Volume	V(as) = 1.747	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 150	Watts
Max Linear Excursion	X(max) = 7	mm
Max Excursion	X(lim) = 3	mm
Voice Coil Diam.	D(vc) = 51	mm

Driver Notes:

System Notes:

Box Parameters

System Type: 2nd Order Closed Box

Box Volume	V(B) = 0.8*	cu ft
Closed Box Q	Q(tc) = 1.22	
System Resonance	F(sc) = 85.64	Hz
Compliance Ratio	alpha = 2.183	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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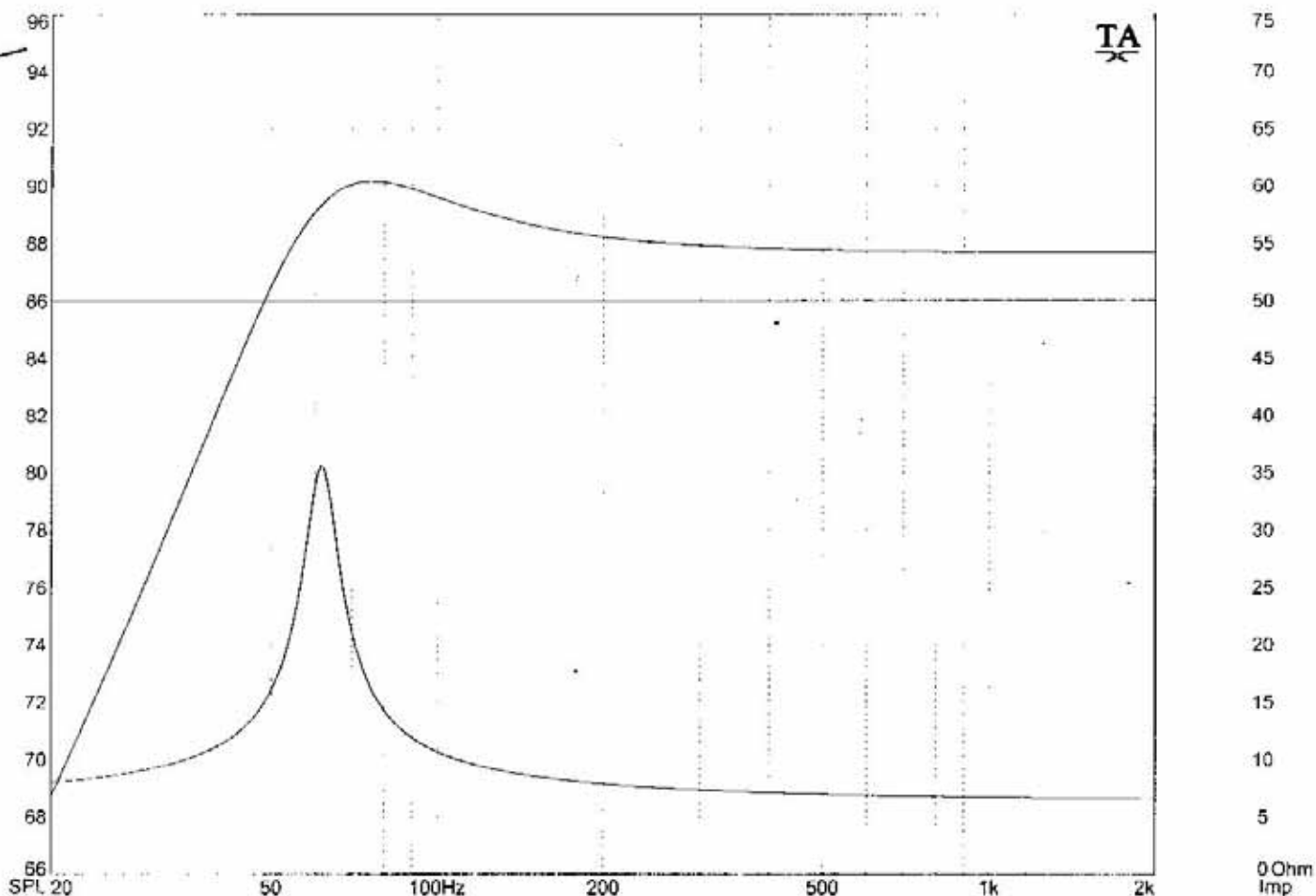
System Name:

2nd Order Closed Box

DESIGNER: RMANGOSING
TITLE: PRODUCT DEVELOPER

Rev Dates

Rev:



Driver Parameters

Driver: **WESCOMPONENT HFR300-150-8**

Nominal Diameter	D = 12	in
Nominal Power	P = 75	Watts
Sensitivity (1W/1m)	SPL = 87.67	dB SPL
Free Air Resonance	f(s) = 39	Hz
Total Q	Q(ts) = 0.768	
Electrical Q	Q(es) = 0.936	
Mechanical Q	Q(ms) = 4.269	
Equivalent Volume	V(as) = 3.004	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 150	Watts
Max Linear Excursion	X(max) = 7	mm
Max Excursion	X(lim) = 9	mm
Voice Coil Diam.	D(vc) = 51	mm

Driver Notes:

System Notes:

Box Parameters

System Type: **2nd Order Closed Box**

Box Volume	V(B) = 2	cu ft
Closed Box Q	Q(tc) = 1.215	
System Resonance	F(sc) = 61.69	Hz
Compliance Ratio	alpha = 1.502	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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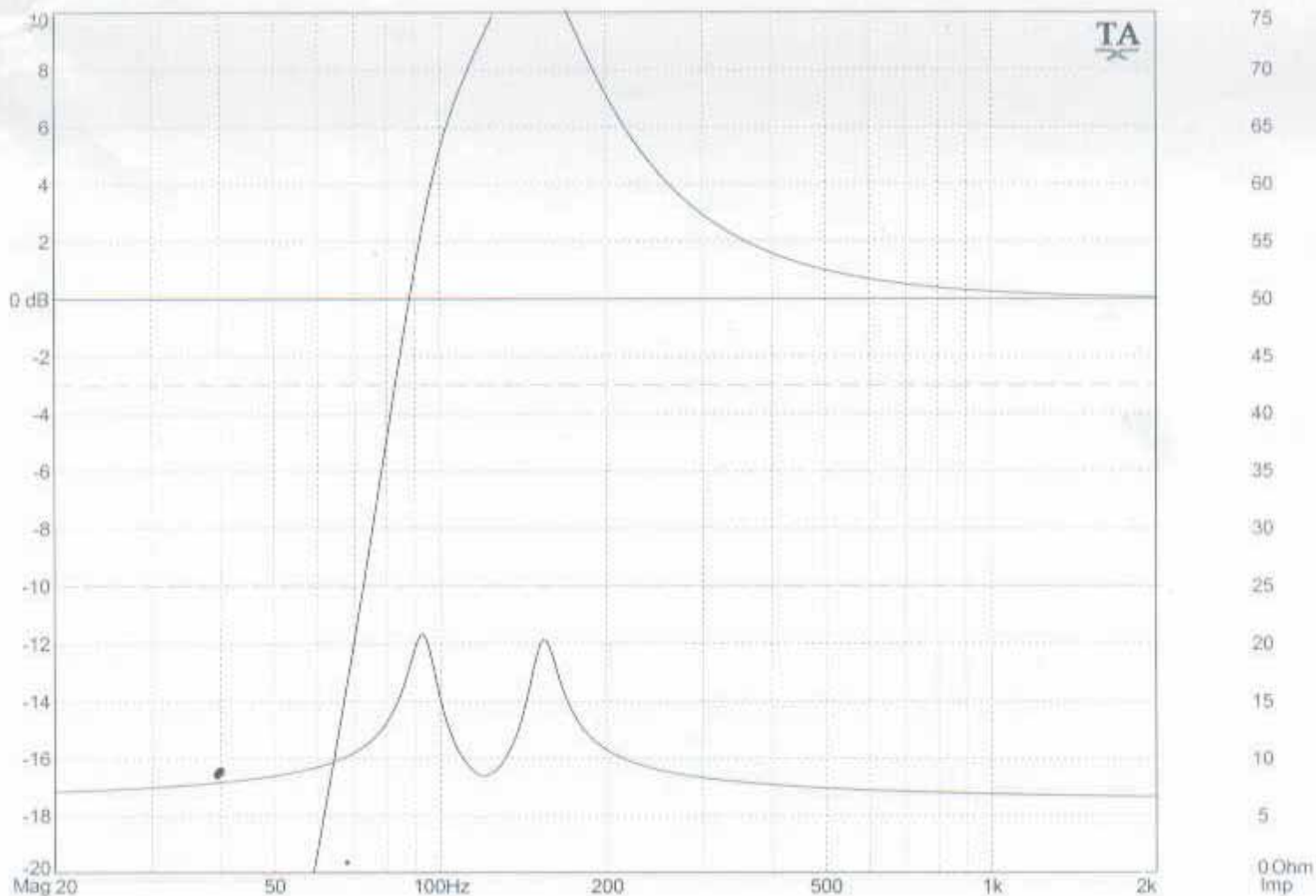
System Name:

2nd Order Closed Box

Designer: **RANDY MANGOSING**
Title: **PRODUCT DEVELOPER**

Rev Date:

Rev:



Driver Parameters

Driver: **WESCOMPONENT HFS100-25-8**

Nominal Diameter	D = 4	in
Nominal Power	P = 13	Watts
Sensitivity (1W/1m)	SPL = 83	dB SPL
Free Air Resonance	f(s) = 119	Hz
Total Q	Q(ts) = 1.38	
Electrical Q	Q(es) = 1.69	
Mechanical Q	Q(ms) = 7.46	
Equivalent Volume	V(as) = 0.0497	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 25	Watts
Max Linear Excursion	X(max) = 4	mm
Max Excursion	X(lim) = 6	mm
Voice Coil Diam.	D(vc) = 20	mm

Driver Notes:

System Notes:

Box Parameters

System Type: **4th Order Vented Box**

Box Volume	V(B) = 0.2	cu ft
Closed Box Q	Q(tc) = 1.542	
Box Frequency	F(B) = 120	Hz
Vent Surface Area	S(v) = 6.283	sq in
Vent Length	L(v) = 3.837	in
Compliance Ratio	alpha = 0.2485	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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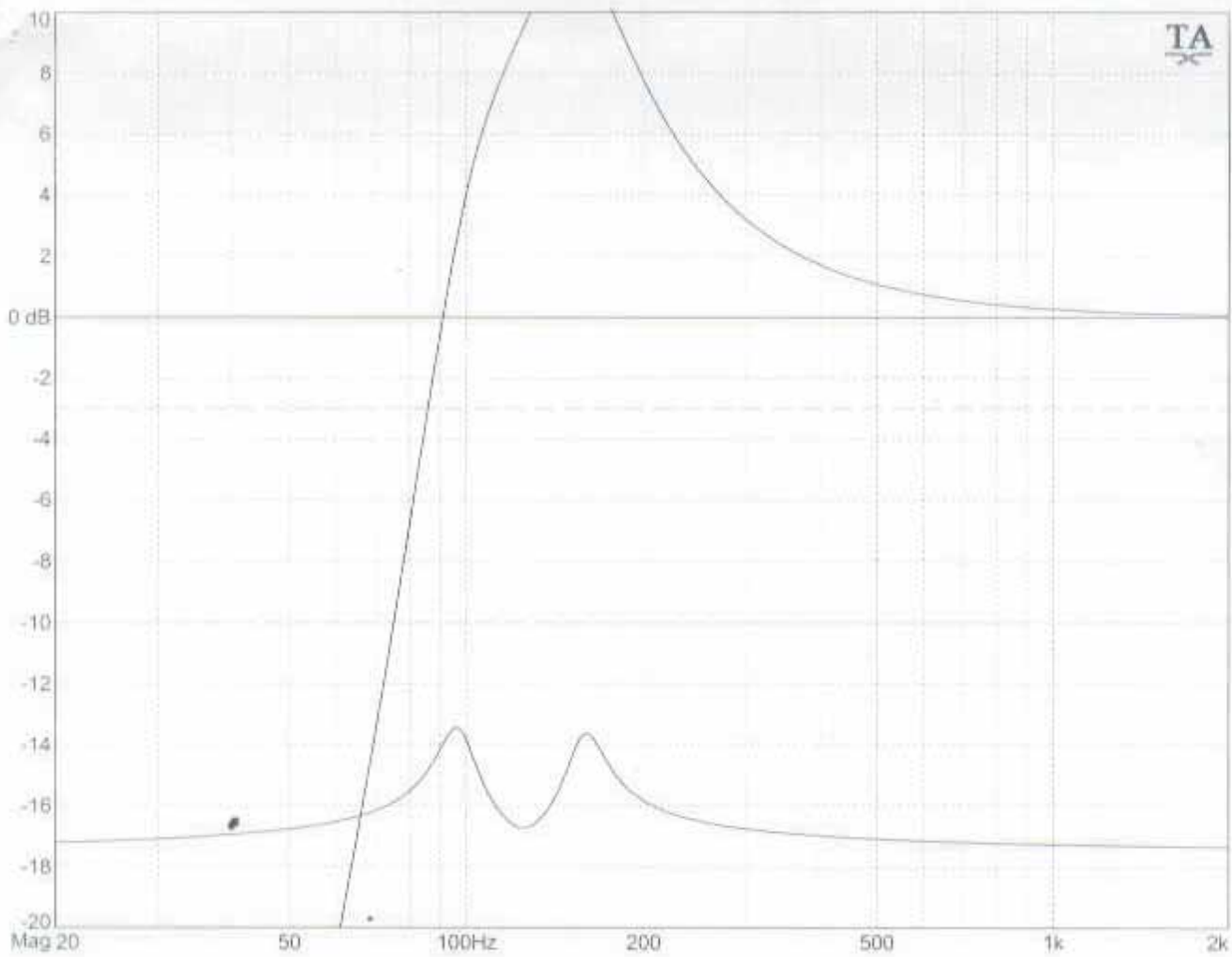
System Name:

4th Order Vented Box

Designer: **RANDY MANGOSING**
Title: **PRODUCT DEVELOPER**

Rev. Date:

Rev.:



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Driver Parameters

Driver: **WESCOMPONENT HFS89-15-8**

Nominal Diameter	D = 3.5	in
Nominal Power	P = 8	Watts
Sensitivity (1W/1m)	SPL = 82	dB SPL
Free Air Resonance	f(s) = 123	Hz
Total Q	Q(ts) = 1.403	
Electrical Q	Q(es) = 1.962	
Mechanical Q	Q(ms) = 4.93	
Equivalent Volume	V(as) = 0.0413	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 15	Watts
Max Linear Excursion	X(max) = 4	mm
Max Excursion	X(lim) = 6	mm
Voice Coil Diam.	D(vc) = 20	mm

Driver Notes:

System Notes:

Box Parameters

System Type: **4th Order Vented Box**

Box Volume	V(B) = 0.17	cu ft
Closed Box Q	Q(tc) = 1.564	
Box Frequency	F(B) = 125	Hz
Vent Surface Area	S(v) = 6.283	sq in
Vent Length	L(v) = 4.334	in
Compliance Ratio	alpha = 0.2429	
Box Loss Q	Q(B) = 7	

System Parameters

No. of Drivers	N = 1	
Isobank Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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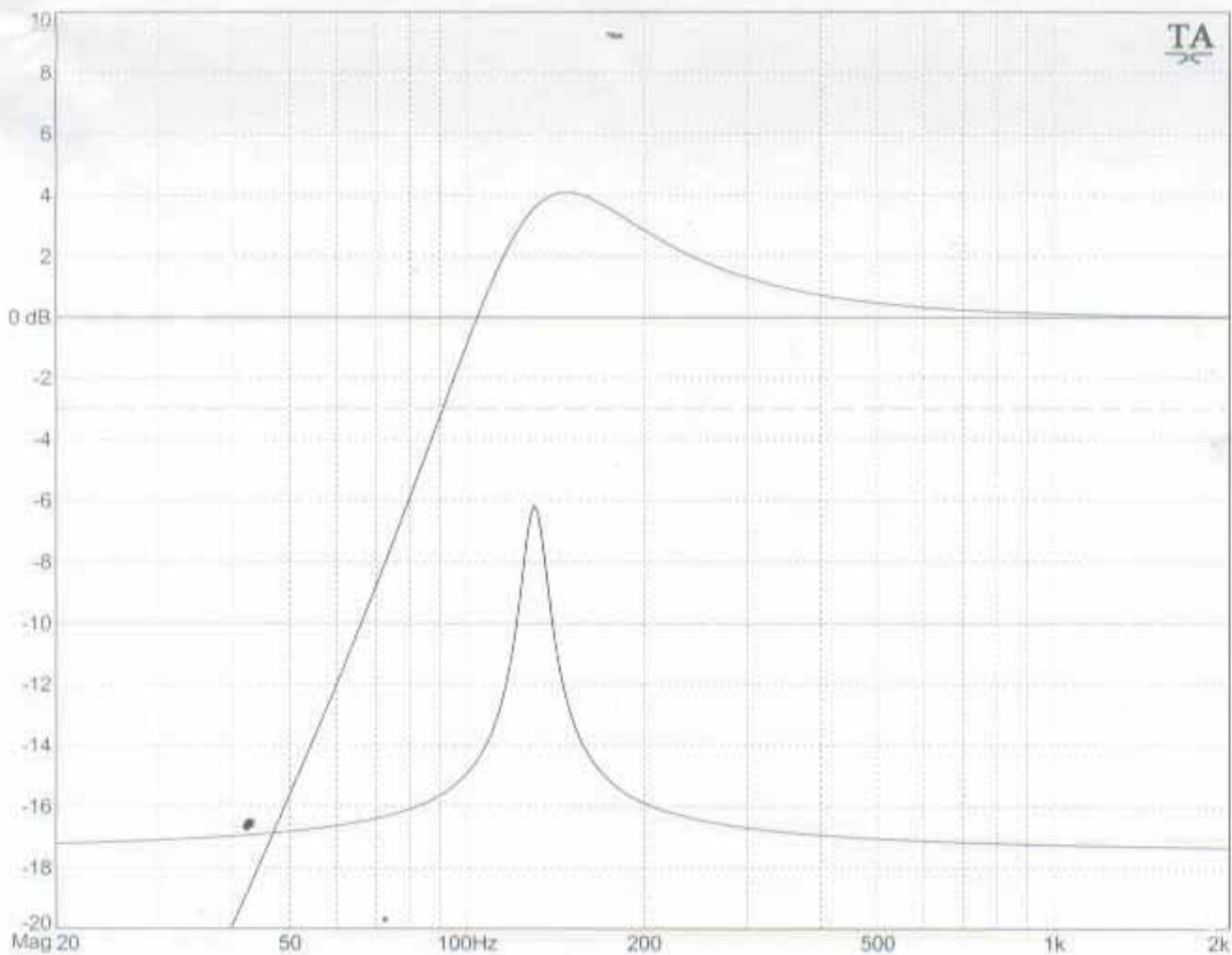
System Name:

4th Order Vented Box

Designer: RANDY MANGOSING
Title: PRODUCT DEVELOPER

Rev. Date:

Rev:



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Driver Parameters

Driver: **WESCOMPONENT HFS100-25-8**

Nominal Diameter	D = 4	in
Nominal Power	P = 13	Watts
Sensitivity (1W/1m)	SPL = 83	dB SPL
Free Air Resonance	f(s) = 119	Hz
Total Q	Q(ts) = 1.38	
Electrical Q	Q(es) = 1.69	
Mechanical Q	Q(ms) = 7.46	
Equivalent Volume	V(as) = 0.0497	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 25	Watts
Max Linear Excursion	X(max) = 4	mm
Max Excursion	X(lim) = 6	mm
Voice Coil Diam.	D(vc) = 20	mm

Driver Notes:

System Notes:

Box Parameters

System Type: **2nd Order Closed Box**

Box Volume	V(B) = 0.25	cu ft
Closed Box Q	Q(tc) = 1.511	
System Resonance	F(sc) = 130.3	Hz
Compliance Ratio	alpha = 0.1988	

System Parameters

No. of Drivers	N = 1	
Isobarik Factor	l = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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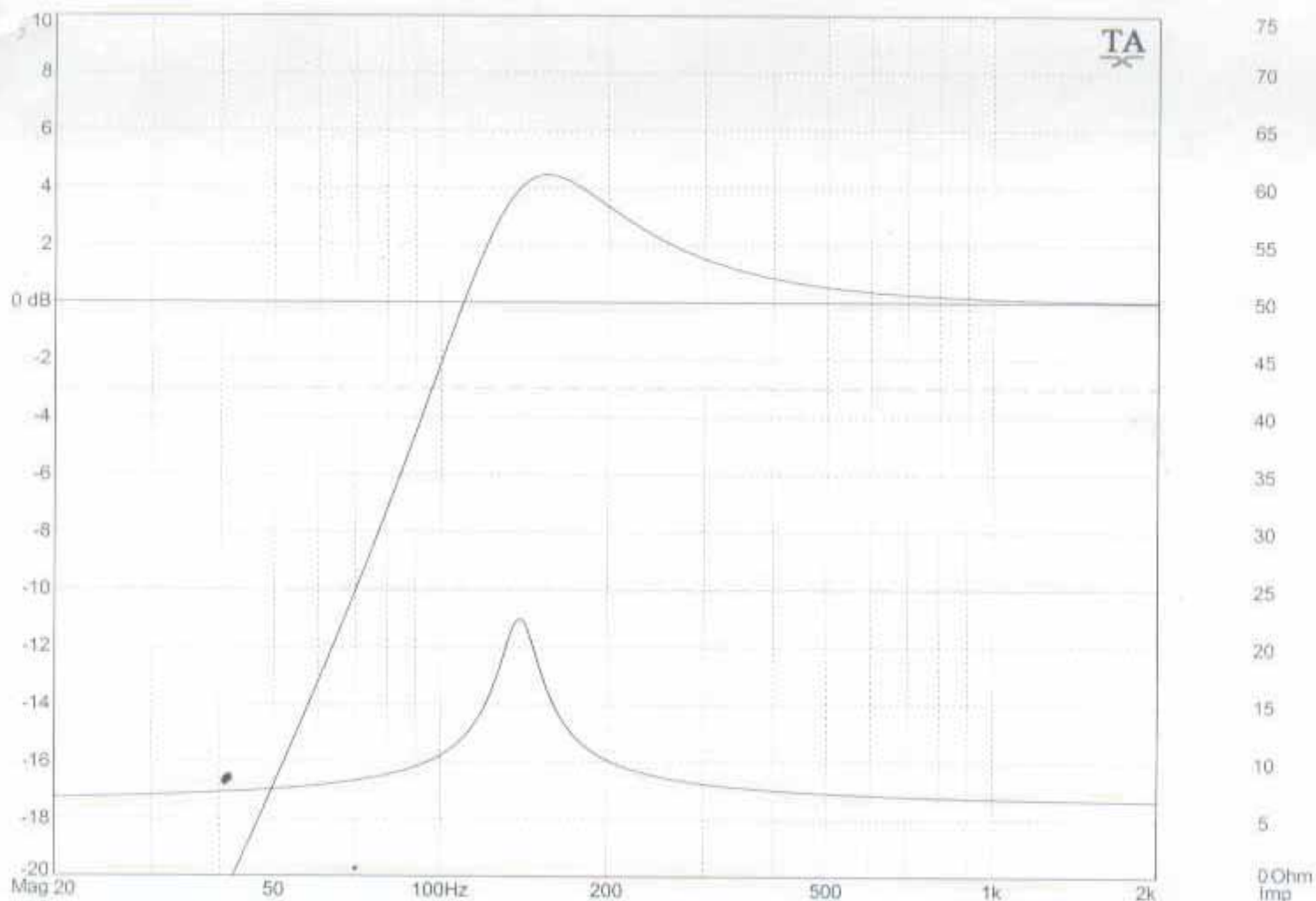
System Name:

2nd Order Closed Box

Designer: **RANDY MANGOSING**
Title: **PRODUCT DEVELOPER**

Rev Date:

Rev:



Driver Parameters

Driver:	WESCOMPONENT HFS89-15-8	
Nominal Diameter	D = 3.5	in
Nominal Power	P = 8	Watts
Sensitivity (1W/1m)	SPL = 82	dB SPL
Free Air Resonance	f(s) = 123	Hz
Total Q	Q(ts) = 1.403	
Electrical Q	Q(es) = 1.962	
Mechanical Q	Q(ms) = 4.93	
Equivalent Volume	V(as) = 0.0413	cu ft
Nominal Impedance	Z = 8	Ohms
DC Resistance	R(e) = 6.4	Ohms
Max Thermal Power	P(t) = 15	Watts
Max Linear Excursion	X(max) = 4	mm
Max Excursion	X(lim) = 6	mm
Voice Coil Diam.	D(vc) = 20	mm

Driver Notes:

System Notes:

Box Parameters

System Type:	2nd Order Closed Box	
Box Volume	V(B) = 0.15	cu ft
Closed Box Q	Q(tc) = 1.584	
System Resonance	F(sc) = 138.9	Hz
Compliance Ratio	alpha = 0.2753	

System Parameters

No. of Drivers	N = 1	
Isobaric Factor	I = 1	(1=normal, 2=iso)
Input Power	P(in) = 1	Watts
SPL Distance	D = 1	m

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TEL NO: 6456639

System Name:

2nd Order Closed Box

Designer: RANDY MANGOSING
Title: PRODUCT DEVELOPER

Rev Date:

Rev: