

## گزارش بازرسی تاسیسات

### به روش التراسونیک Phased Array

پروژه:

انجام خدمات بازرسی فنی و حفاظت خوردگی فلزات

پیمان

کارفرما:

شرکت

مجری:

شرکت بازرسی فنی و کنترل خوردگی تکین کو

فروردین الی مهرماه سال ۱۳۹۱

ایران -



## فهرست

۱. شرح کار

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۳. دستورالعمل

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## ۱. شرح کار

شرح کار عبارت است از :

انجام آزمون Phased Array بر روی نیمه پایینی لوله های

## ۲. اهداف

هدف از بازرسی Phased Array تعیین میزان کاهش ضخامت و خوردگی در آ [redacted] میباشد.

## ۳. دستورالعمل

اجرای بازرسی Phased Array مطابق با استاندارد ASME, Article 4 , Mandatory Appendix IV, Version 2010 و آیین نامه بازرسی GEN-PC-PA-001 ویرایش 00 بوده است.

## ۴. گزارش بازرسی

گزارش بازرسی Phased Array شامل سه بخش اصلی میباشد که اطلاعات مربوط به هر بخش به شرح ذیل است:

### بخش اول :

در این بخش (صفحات ابتدایی هر گزارش) معمولاً اطلاعات اصلی در مورد آزمون موجود میباشد که شامل موارد زیر است:

- ✓ مشخصات کارفرما ، مجری ، پروژه و قطعه مورد آزمون
- ✓ مشخصات درخواست کار ، شماره گزارش ، تاریخ اجرا
- ✓ مشخصات کامل قطعه مورد آزمون مانند جنس ، ضخامت ....
- ✓ مشخصات دستگاه ، بلوک کالیبراسیون و پرابهای مورد استفاده
- ✓ مشخصات استاندارد ، آیین نامه بازرسی ، روش بازرسی و ....
- ✓ شماتیک قطعه مورد آزمون که در آن اطلاعات تصویر تجهیز تست شده به همراه طریقه منطقه بندی آن جهت تسهیل موقعیت یابی عیوب مشخص شده است.

- ✓ حجم کار انجام شده
- ✓ امضاء بازرس ، ناظر ، کارفرما

### بخش دوم :

در این بخش معمولاً اطلاعات خلاصه ای از کلیه نواحی مورد آزمون بصورت یک یا چند جدول گردآوری شده است . که شامل موارد زیر است:

- ✓ Item name : شماره ناحیه تست شده
- ✓ Ind. No : شماره نشانه
- ✓ Probe No.: شماره پروب
- ✓ OT : ضخامت اولیه
- ✓ X,Y,Z: که X طول ، Y عرض ناحیه خوردگی و Z کمترین ضخامت باقیمانده در محل خوردگی میباشد
- ✓ mt : در نواحی دارای خوردگی موضعی به ضخامت باقی مانده در کنار ناحیه معیوب گفته میشود
- ✓ MT: کمترین ضخامت باقی مانده در ناحیه مورد آزمون میباشد.
- ✓ Tested Area: حجم بازرسی انجام شده
- ✓ Remark : سایر نکات
- ✓ امضاء بازرس ، ناظر ، کارفرما
- ✓ جهت سهولت کارفرمای محترم نواحی که ضخامت باقی مانده آنها کمتر از ۱۸ میلیمتر گزارش شده با رنگ زرد و نواحی که ضخامت باقی مانده آنها کمتر از ۱۵ میلیمتر گزارش شده با رنگ قرمز مشخص شده اند.

### بخش سوم :

در این بخش معمولاً اطلاعات هر ناحیه مورد آزمون بصورت تفکیکی گردآوری شده است . که شامل موارد زیر است:

- ✓ نمای A-scan که مربوط به سیگنال ارسالی التراسونیک میباشد .
- ✓ نمای B-scan که مربوط به تصویر قطعه از پهلو میباشد .
- ✓ نمای C-scan که مربوط به تصویر قطعه از بالا میباشد .
- ✓ نمای S-scan که مربوط به تصویر سونوگرافیک قطعه از پهلو میباشد .
- ✓ نتیجه
- ✓ امضاء بازرس ، ناظر ، کارفرما



## ۵. مشاهدات:

در تجهیزات بازرسی شده این چاه خوردگی خاصی مشاهده نشد.





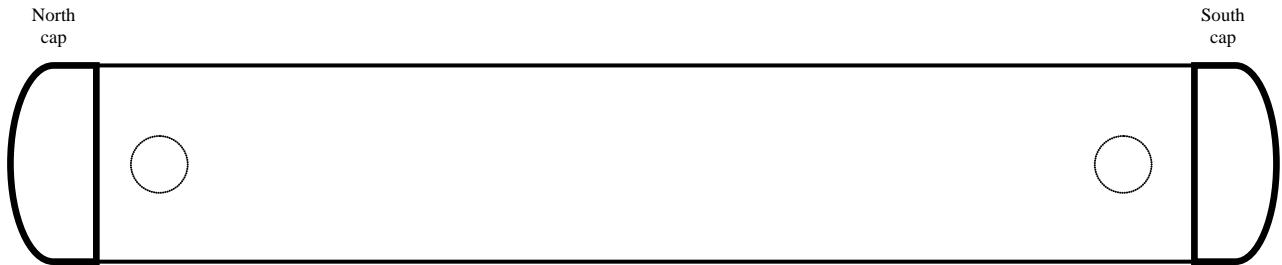
# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
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<b>Item Specification</b>						<b>Inspection Subject</b>					
Item Name & No.: <b>ACCUMULATOR</b>						Base Metal <input checked="" type="checkbox"/> Weld Metal <input type="checkbox"/> Casting <input type="checkbox"/>					
DWG No.: <b>N/A</b> Material: <b>C.S.</b>						① Groove Type: -					
Surface Condition: <b>as painted</b> Thickness: <b>26 mm</b>						② Welding Process: -					
Equipment: <b>SIUI</b> Model: <b>CTS-602</b> Ser.: <b>541021100</b>						Basic Calibration Block: <b>ASME Block</b>					
030						Reference dB: <b>2</b>					
Probe No.	Type/Ser. No.	Freq. (MHz)	Size / No. (mm)	Angle (°)	Index (mm)	Correction dB: -					
1	<b>TL5F16 / 67110003</b>	<b>5</b>	<b>0.5x20 / 32</b>	<b>±20</b>	-	Scanning dB: <b>8</b>					
2	<b>40-2668/16L3</b>	<b>5</b>	<b>20</b>	<b>±20</b>	--	Couplant: <b>Water/Grease</b>					
3	<b>50-2668/16L4</b>	<b>5</b>	<b>20</b>	<b>±20</b>	--	<b>Sensitivity Calibration</b>					
Code/Standard: <b>ASME Sec. V Article 4</b>						SDH <input type="checkbox"/> BW <input checked="" type="checkbox"/> FBH <input type="checkbox"/> Notch <input type="checkbox"/>					
Mandatory appendices V Revision: <b>10</b>						Other: Size:					
Procedure No.: <b>GEN-PC-PA-001</b> Revision: <b>00</b>						<b>Sensitivity Evaluation Method</b>					
<b>Inspection Method</b>						RH <input type="checkbox"/> RL <input type="checkbox"/> DAC <input checked="" type="checkbox"/> DGS <input type="checkbox"/>					
Contact <input checked="" type="checkbox"/>	Pulse Echo <input checked="" type="checkbox"/>										
Immersion <input type="checkbox"/>	Through Transmission <input type="checkbox"/>										

### Sketch:



**Result:** Minimum remaining thickness is 24 mm.

**Total Tested Area:** 35 (m<sup>2</sup>)

① SV: Single-V-Groove DU: Double-U-Groove SB: Single-Bevel-Groove DB: Double-Bevel-Groove Other:

② SMAW: Shield Metal Arc Welding GMAW: Gas Metal Arc Welding SAW: Submerge Arc Welding Other:

Abbreviations: DAC: Distance Amplitude Correction Curve DGS: Distance, Gain, Size RL: Reference Level

SDH: side Drilled Hole BW: Back Wall N/A: Not applicable FBH: Flat Bottom Hole RH: Reference Heightp

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

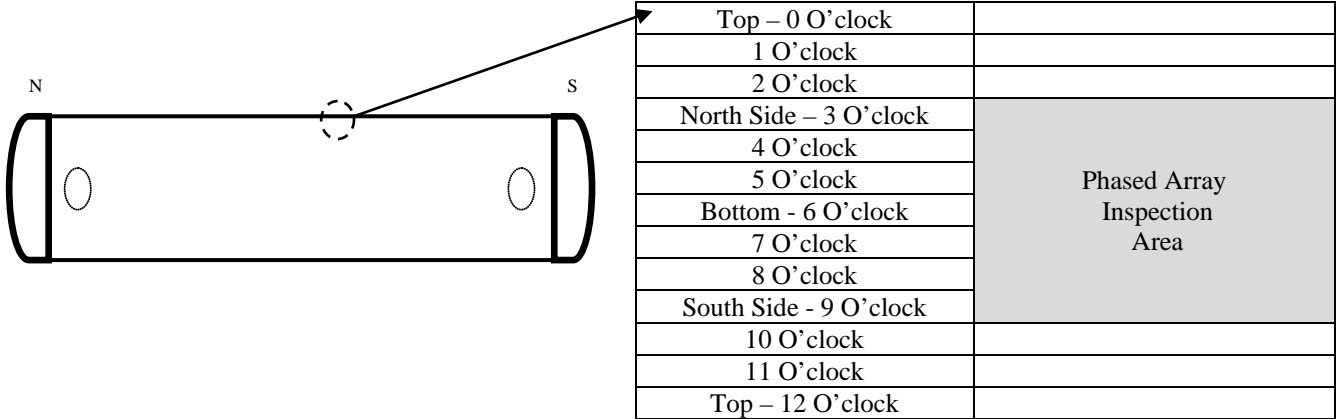


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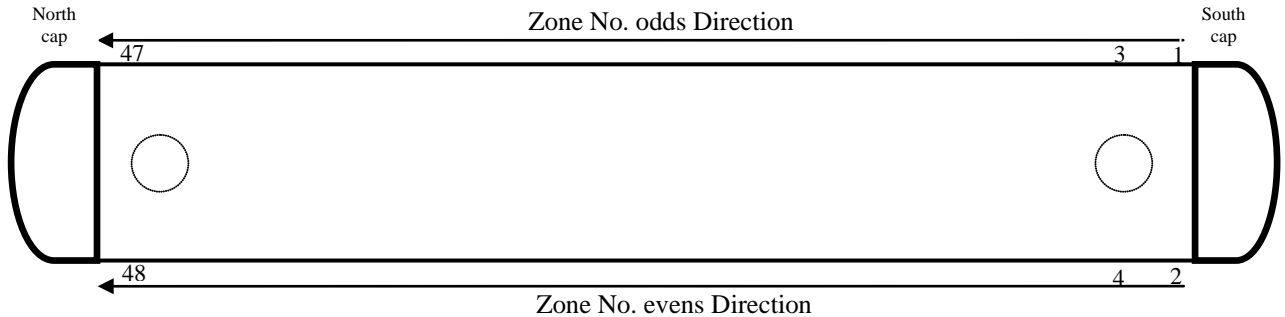
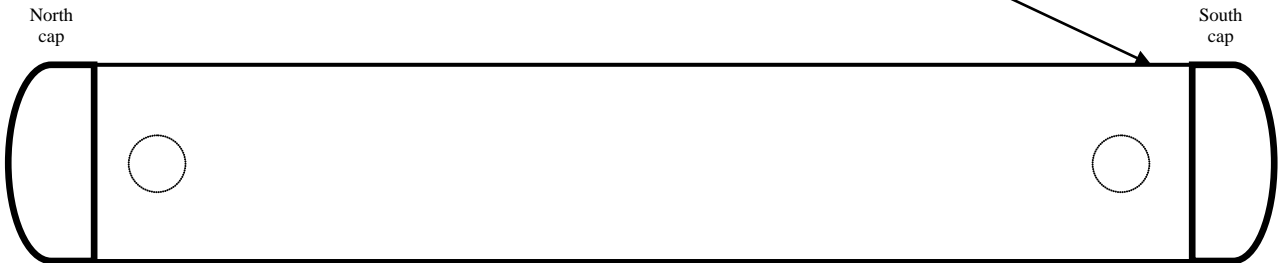
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**ACCUMULATOR:**



Zone No. Start  
Width \* Length: 72\*100 cm



Inspector(s):	Approved by :	Client :
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No.	Item Name	Ind. No.	Probe No.	O. Thk.	Ind. Location & Size (mm)					Tested Area(M <sup>2</sup> )	Remark
					X	Y	Min. Thk.	H	D		
1	Zone 1	1	1	24	*	*	24	*	-	0.72	*:See Picture
2	Zone 2	1	1	24	*	*	24	*	-	0.72	*:See Picture
3	Zone 3	1	1	24	*	*	24	-	-	0.72	*:See Picture
4	Zone 4	1	1	26	*	*	24	*	-	0.72	*:See Picture
5	Zone 5	1	1	26	*	*	24	*	-	0.72	*:See Picture
6	Zone 6	1	1	26	*	*	24	*	-	0.72	*:See Picture
7	Zone 7	1	1	26	*	*	25.7	*	-	0.72	*:See Picture
8	Zone 8	1	1	26	*	*	24	*	-	0.72	*:See Picture
9	Zone 9	1	1	26	*	*	24.9	*	-	0.72	*:See Picture
10	Zone 10	1	1	26	*	*	24.5	*	-	0.72	*:See Picture
11	Zone 11	1	1	26	*	*	25.7	*	-	0.72	*:See Picture
12	Zone 12	1	1	26	*	*	24	*	-	0.72	*:See Picture
13	Zone 13	1	1	26	5	4	24.2	*	8.7	0.72	*:See Picture
14	Zone 14	1	1	26	*	*	24.8	*	-	0.72	*:See Picture
15	Zone 15	1	1	26	*	*	24.9	*	-	0.72	*:See Picture
16	Zone 16	1	1	26	*	*	25.6	*	-	0.72	*:See Picture
17	Zone 17	1	1	26	*	*	24.4	*	-	0.72	*:See Picture
18	Zone 18	1	1	26	*	*	24.6	*	-	0.72	*:See Picture
19	Zone 19	1	1	26	*	*	25.2	*	-	0.72	*:See Picture
20	Zone 20	1	1	26	*	*	24	*	-	0.72	*:See Picture

Abbreviations:	Ind.: Indication	Dir.: Direction	M. L.: Maximum Length	H: Height
	X & Y: Defect 2D dimension	Att.: Attenuation	D: Defect Depth	Min. Thk. : Minimum Thickness
	Disc.: Discontinuity	Eval.: Evaluation	Ref.: Reference	

<b>Inspector(s):</b>	<b>Approved by :</b>	<b>Client :</b>
Level:II Sign:	Level: III Sign:	Date:





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No.	Item Name	Ind. No.	Probe No.	O. Thk.	Ind. Location & Size (mm)					Tested Area(M <sup>2</sup> )	Remark
					X	Y	Min. Thk.	H	D		
21	Zone 21	1	1	26	*	*	24.5	*	-	0.72	*:See Picture
22	Zone 22	1	1	26	*	*	24.7	*	-	0.72	*:See Picture
23	Zone 23	1	1	26	*	*	24.5	*	-	0.72	*:See Picture
24	Zone 24	1	1	26	*	*	24.2	*	-	0.72	*:See Picture
25	Zone 25	1	1	26	*	*	25.9	-	-	0.72	*:See Picture
26	Zone 26	1	1	26	*	*	24.2	*	-	0.72	*:See Picture
27	Zone 27	1	1	26	*	*	25	-	-	0.72	*:See Picture
28	Zone 28	1	1	26	*	*	24.3	-	-	0.72	*:See Picture
29	Zone 29	1	1	26	*	*	24.5	*	-	0.72	*:See Picture
30	Zone 30	1	1	26	*	*	24.2	*	-	0.72	*:See Picture
31	Zone 31	1	1	26	*	*	24.8	*	-	0.72	*:See Picture
32	Zone 32	1	1	26	*	*	24.1	*	-	0.72	*:See Picture
33	Zone 33	1	1	26	*	*	24.5	*	-	0.72	*:See Picture
34	Zone 34	1	1	26	*	*	24.3	*	-	0.72	*:See Picture
35	Zone 35	1	1	26	*	*	25.1	*	-	0.72	*:See Picture
36	Zone 36	1	1	26	*	*	24.1	*	-	0.72	*:See Picture
37	Zone 37	1	1	26	*	*	25.6	*	-	0.72	*:See Picture
38	Zone 38	1	1	26	*	*	24.3	*	-	0.72	*:See Picture
39	Zone 39	1	1	26	*	*	24	*	-	0.72	*:See Picture
40	Zone 40	1	1	26	*	*	24	*	-	0.72	*:See Picture

Abbreviations:	Ind.: Indication	Dir.: Direction	O.Thk.:Original Thickness	H: Height
X & Y: Defect 2D dimension	Att.: Attenuation	D: Defect Depth	Min. Thk. : Minimum Thickness	
Disc.: Discontinuity	Eval.: Evaluation	Ref.: Reference		

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



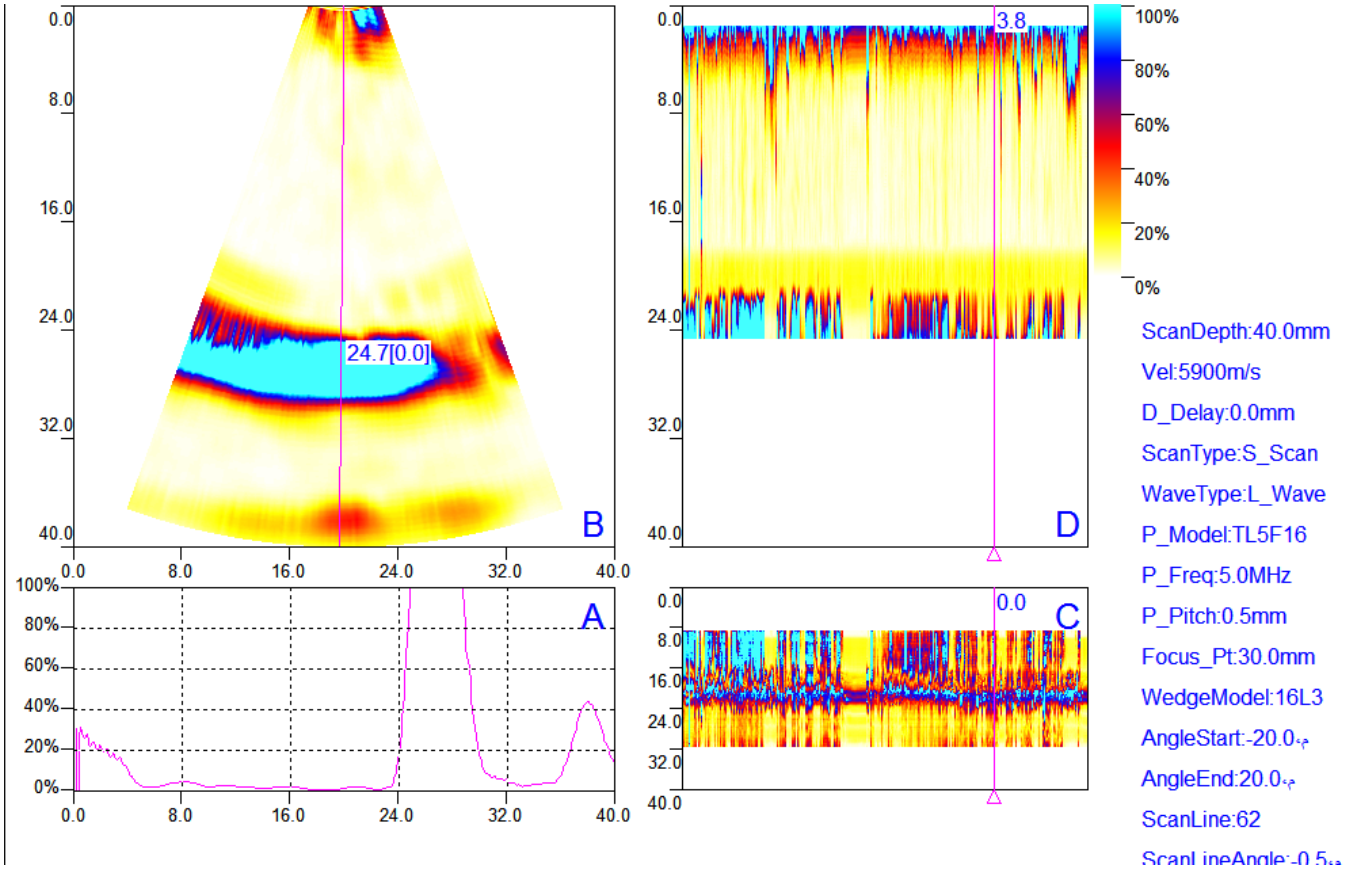


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## ZONE 1:



### Abbreviation:

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

### Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

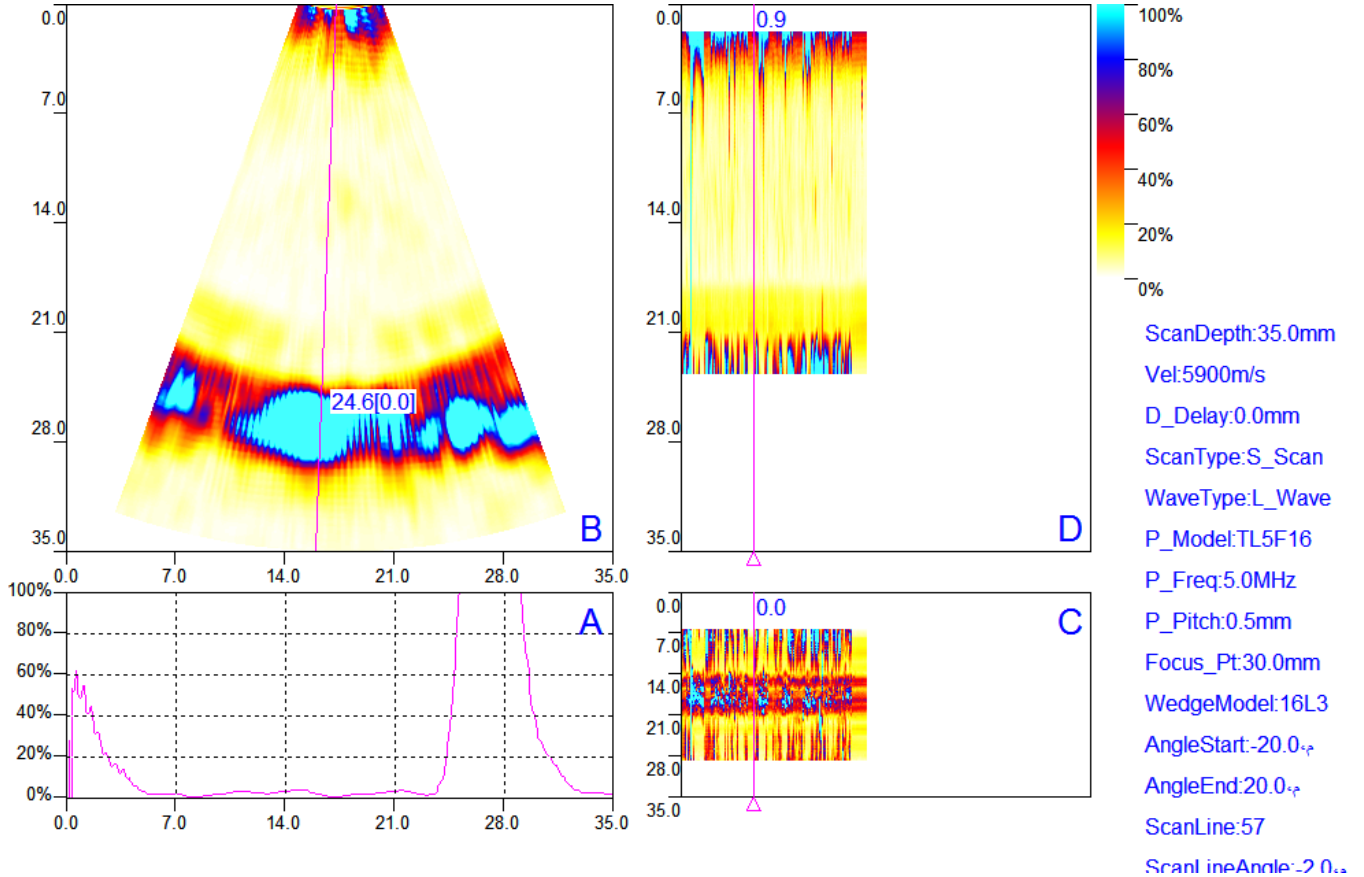


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## ZONE 2:



### Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

### Results:

No indication was observed.

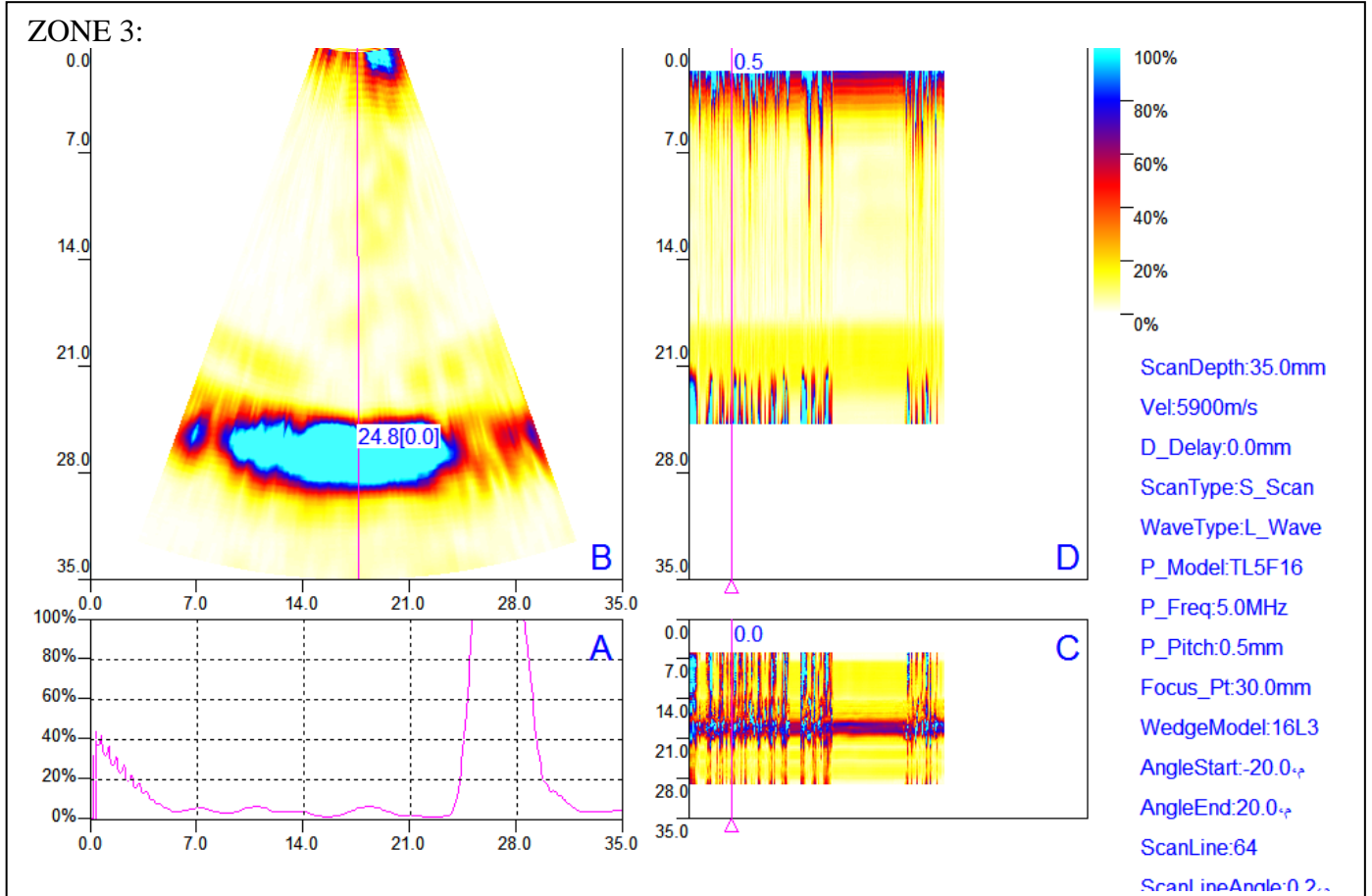
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



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**Abbreviation:**

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

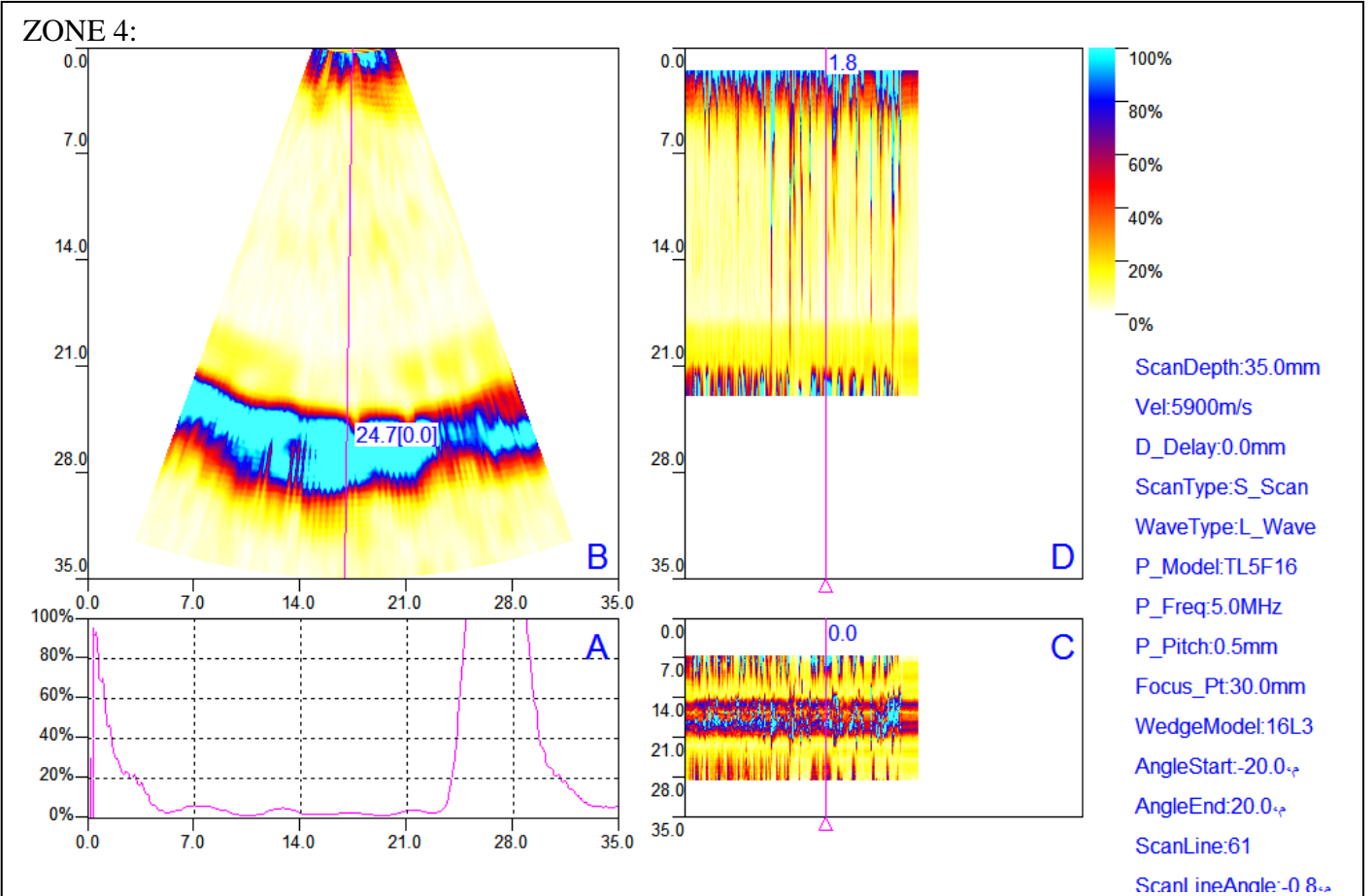
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

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**Abbreviation:**

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

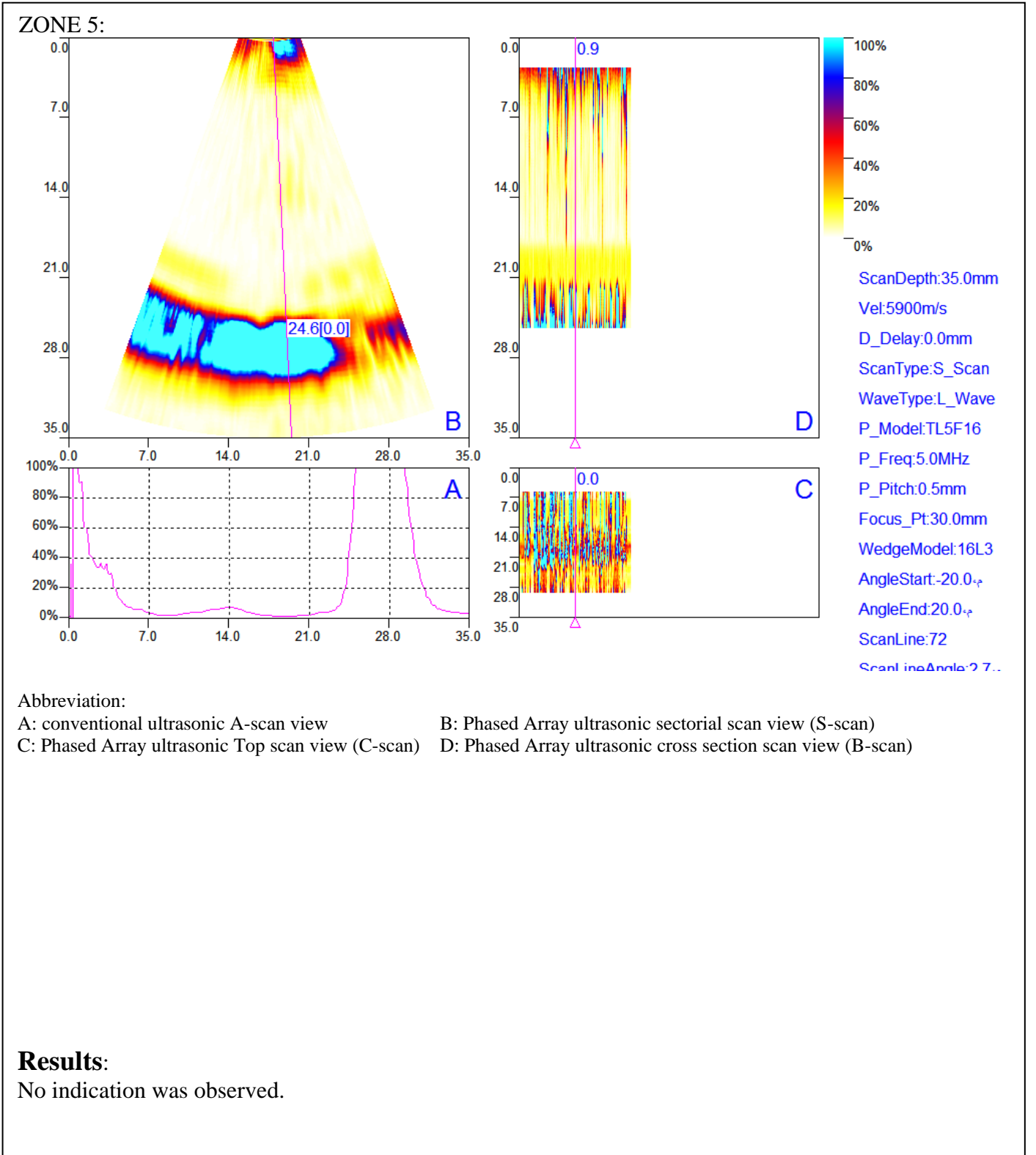
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



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**Abbreviation:**

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

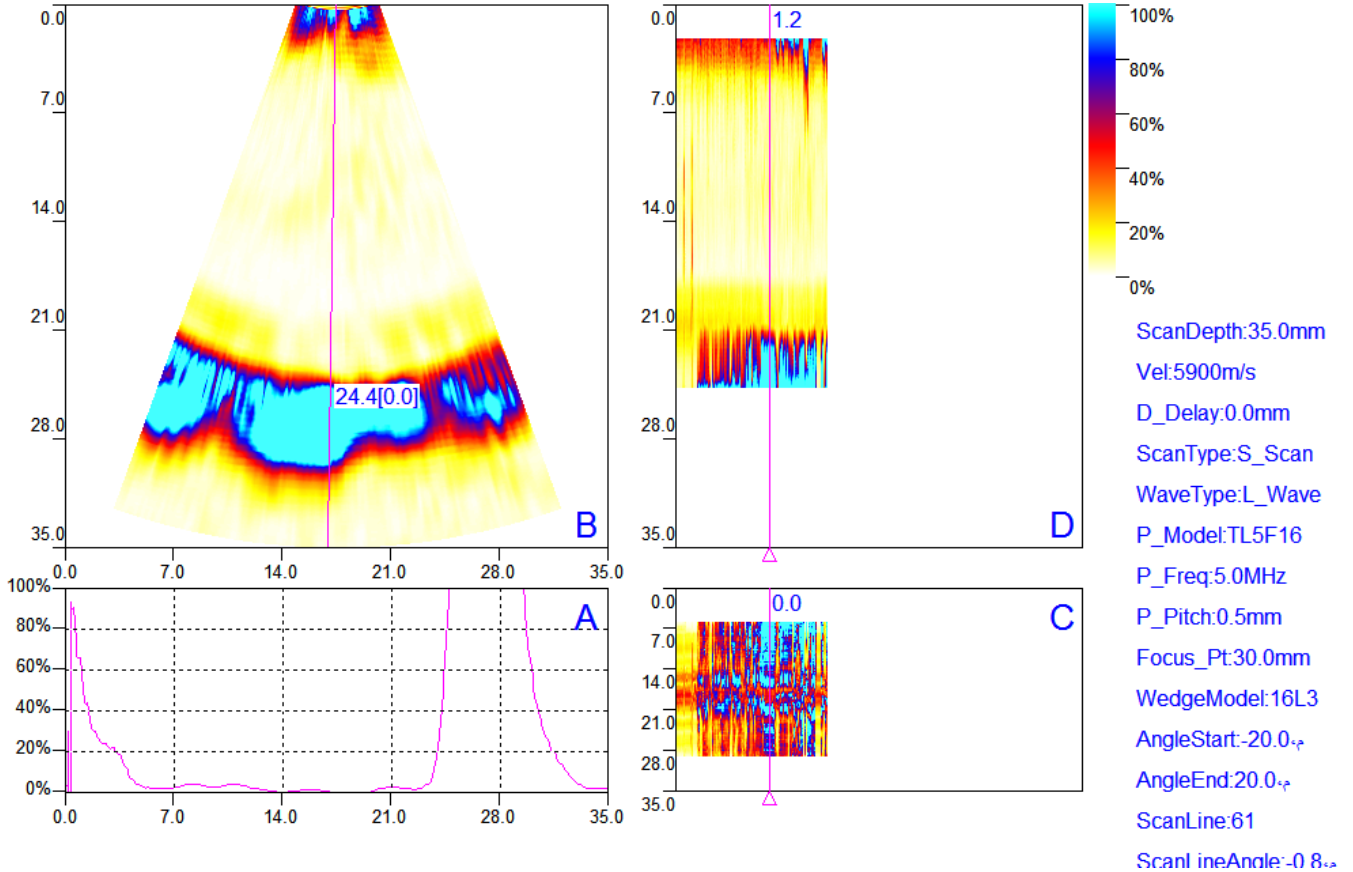


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ZONE 6:



Abbreviation:

A: conventional ultrasonic A-scan view

B: Phased Array ultrasonic sectorial scan view (S-scan)

C: Phased Array ultrasonic Top scan view (C-scan)

D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



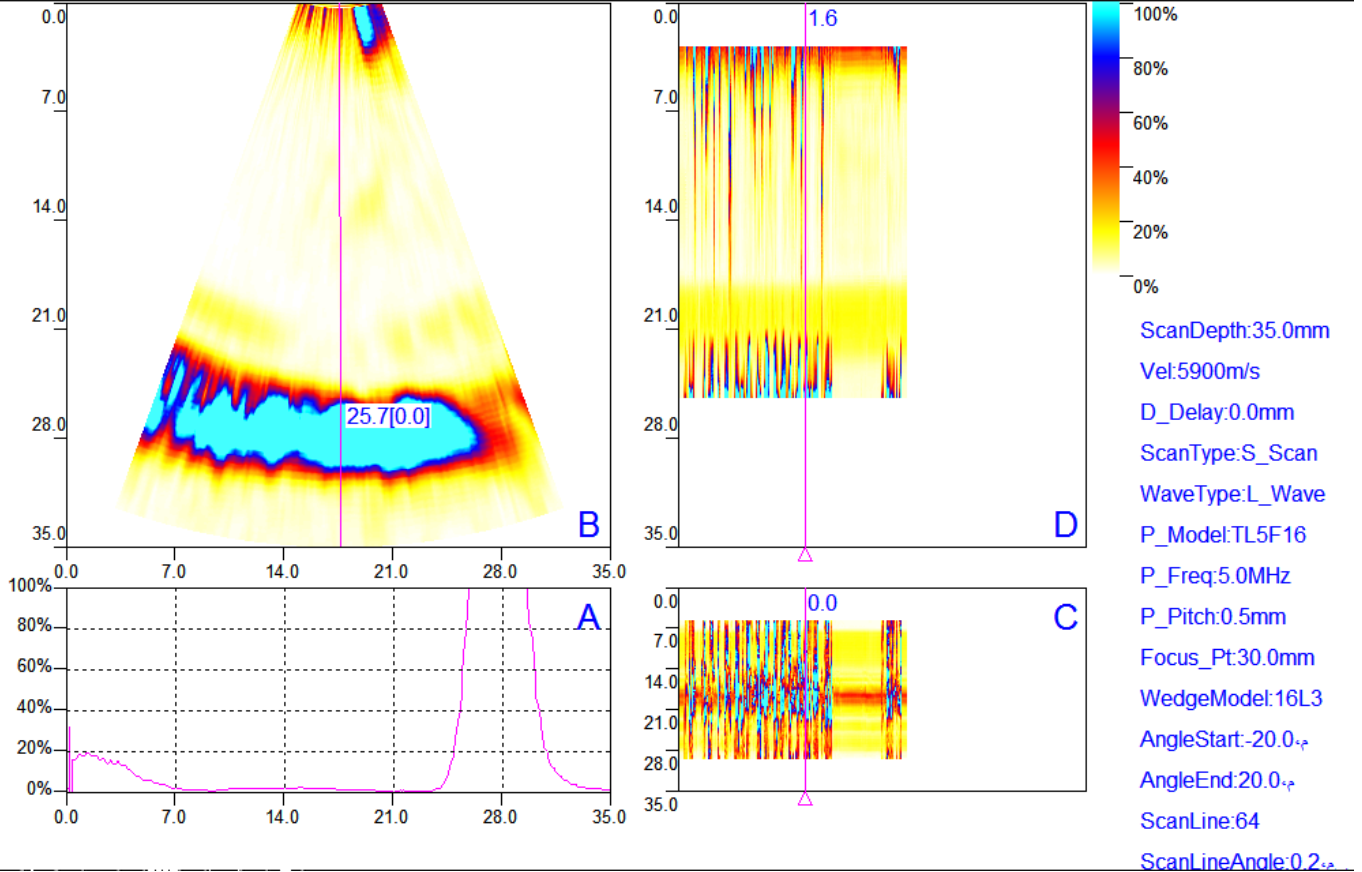


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## ZONE 7:



### Abbreviation:

A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

### Results:

No indication was observed.

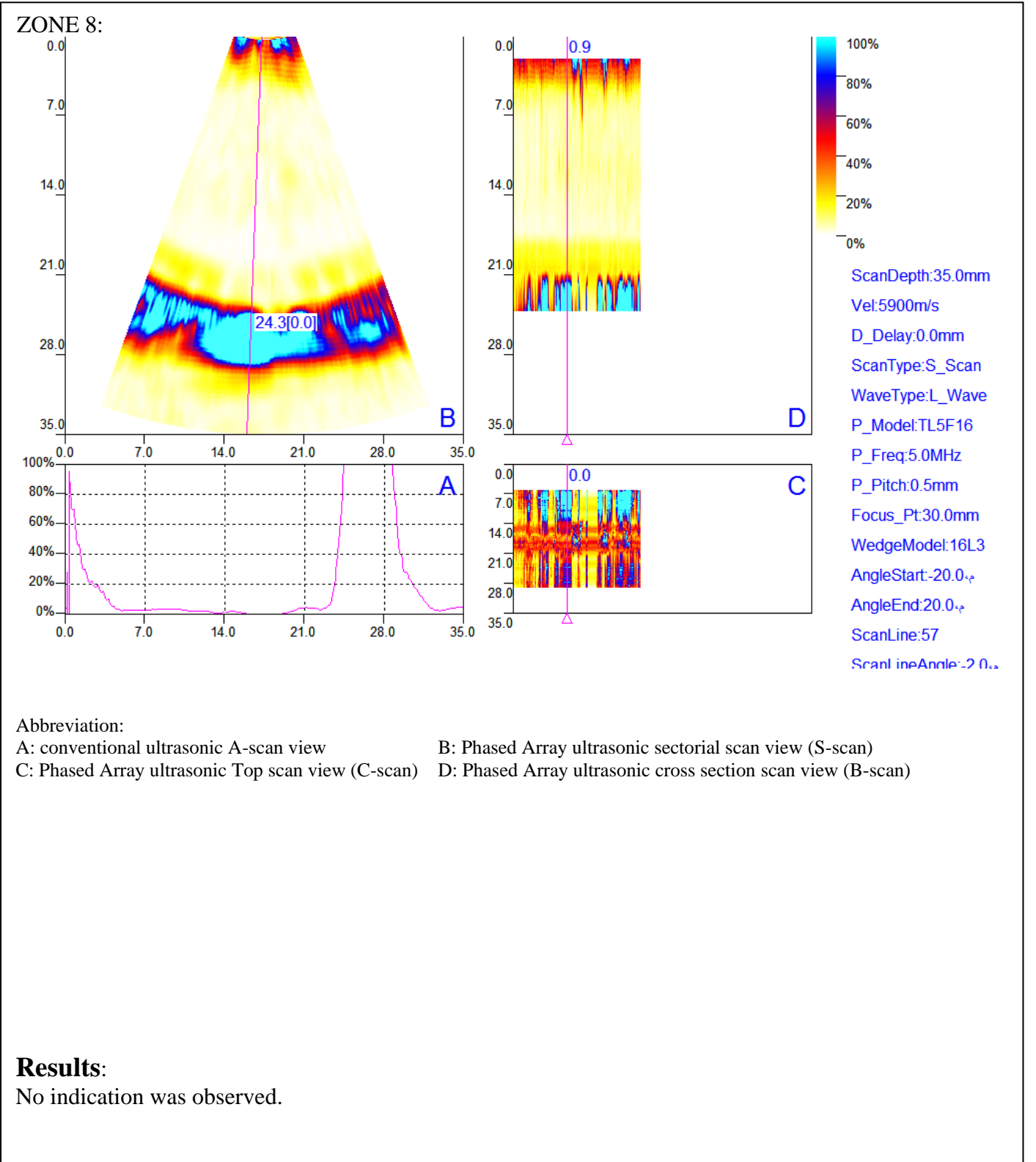
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



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<b>Client</b>		<b>Request No.</b>	29-84-30287
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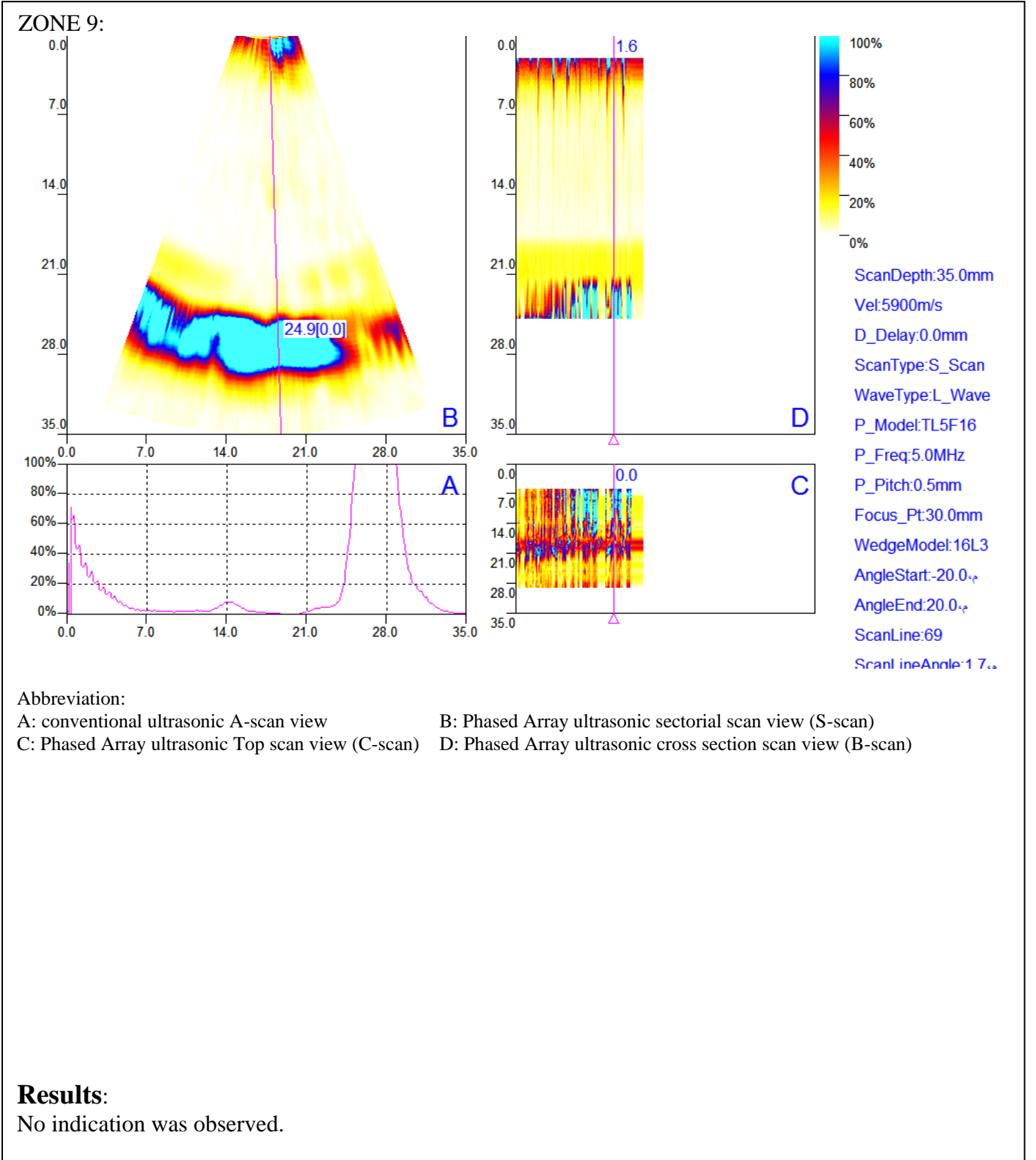
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

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<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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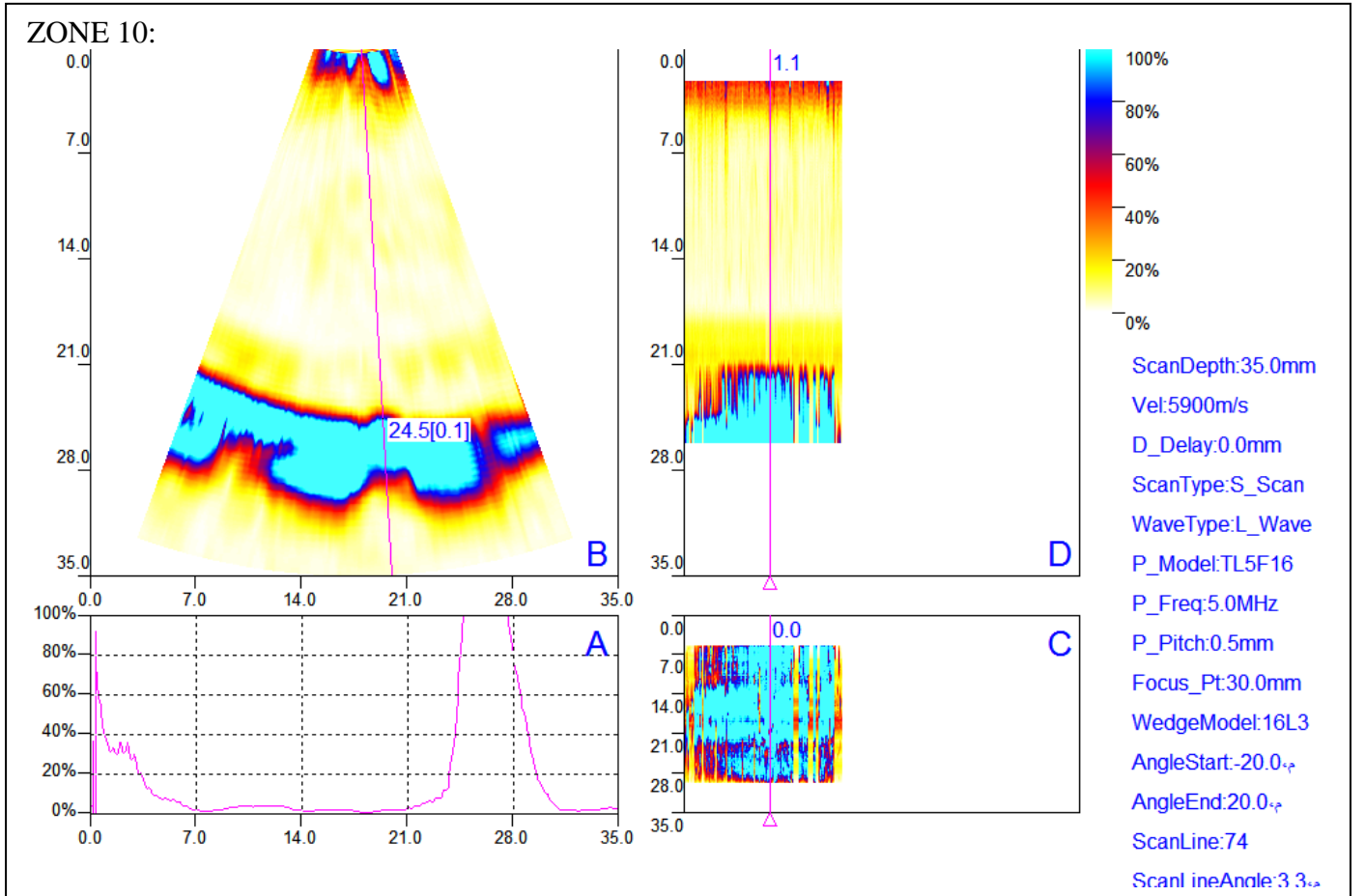
Inspector(s):	Approved by :	Client :
Level: II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	15 of 55



**Abbreviation:**

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

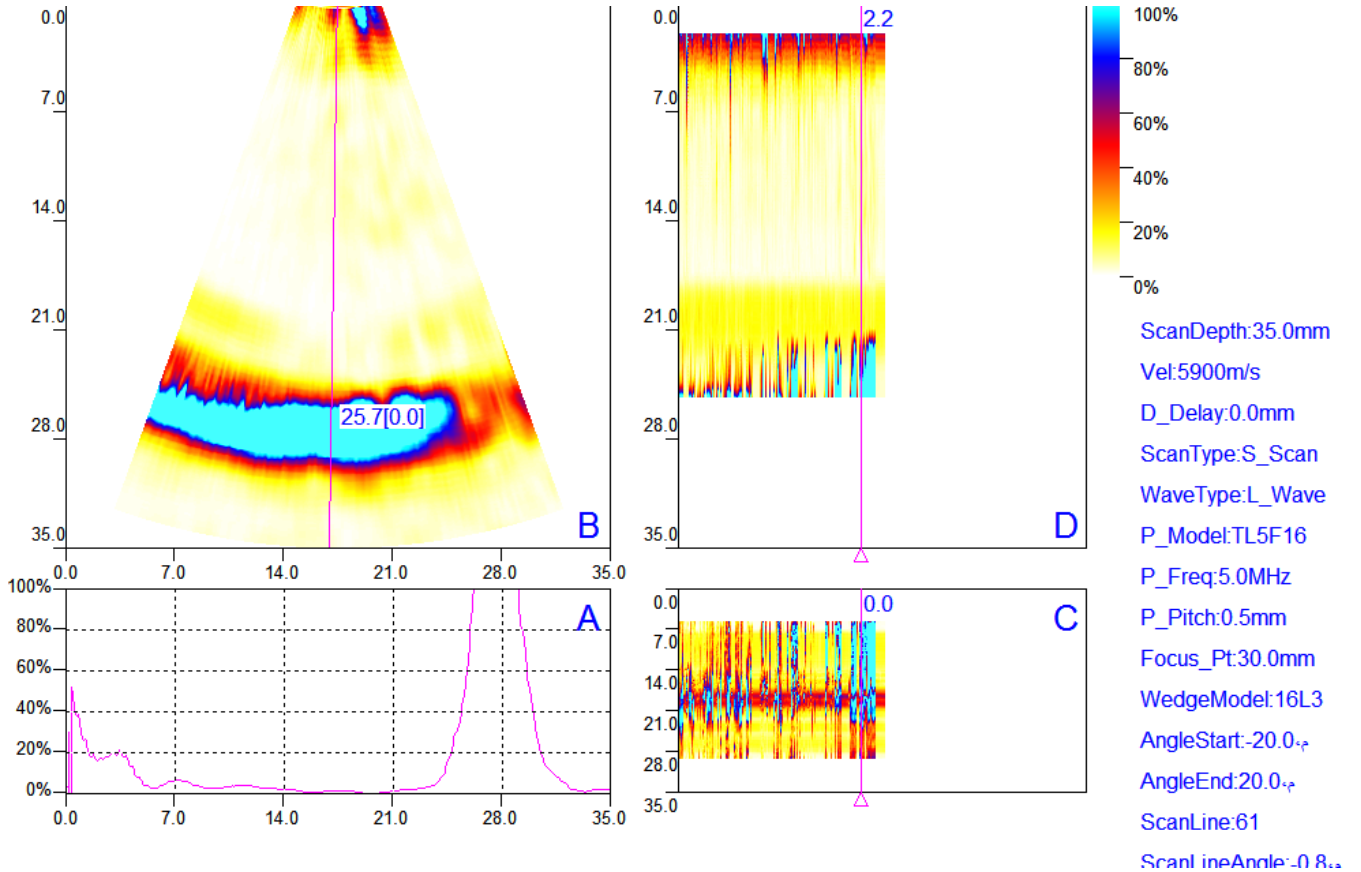


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	16 of 55

ZONE 11:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

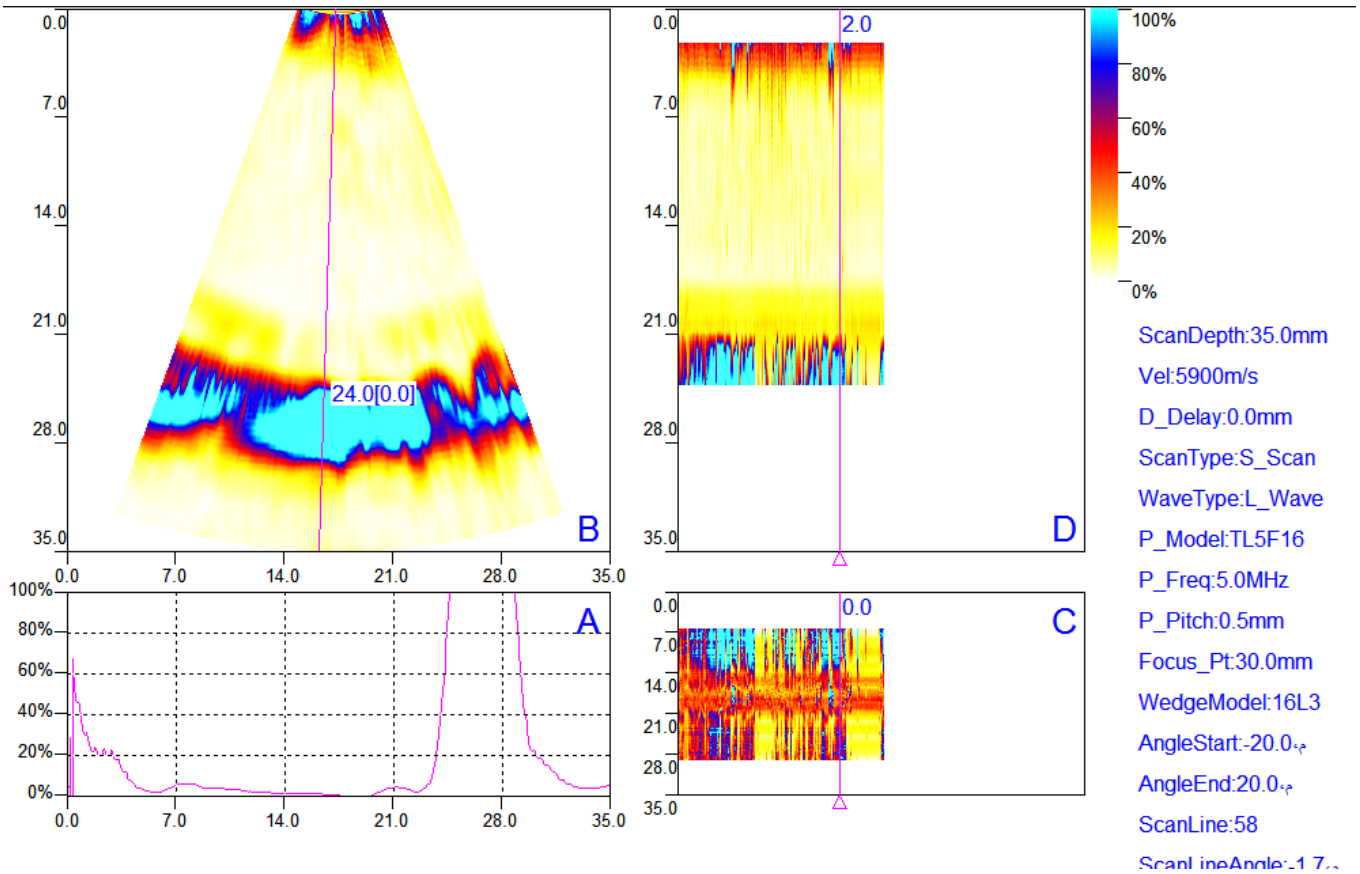


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	17 of 55

ZONE 12:



Abbreviation:

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

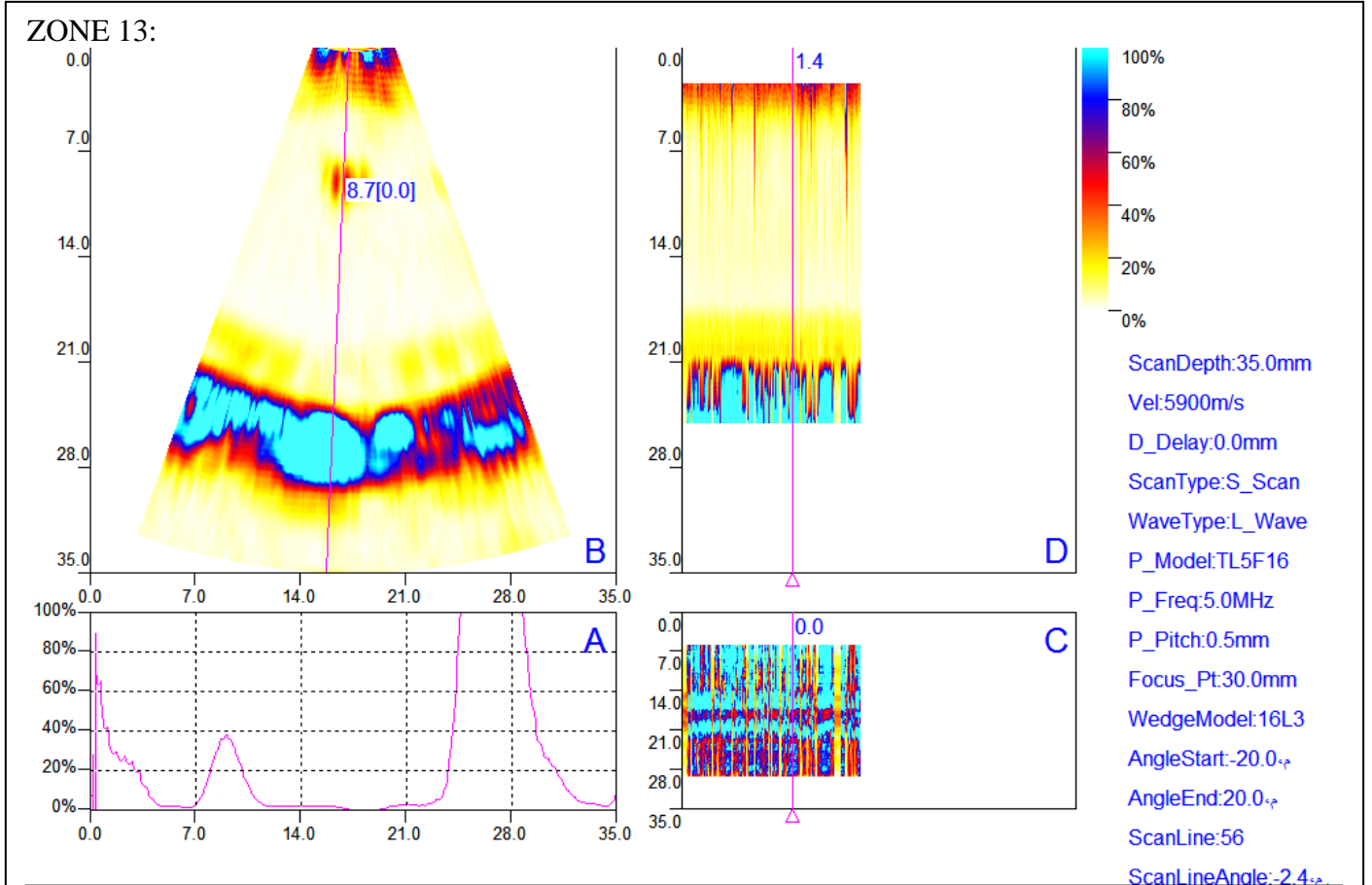
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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**Abbreviation:**

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

One indication was observed. Dimensions of that were mentioned on the table. This indication was interpreted as inclusion. Mentioned inclusion can be observed in B view.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

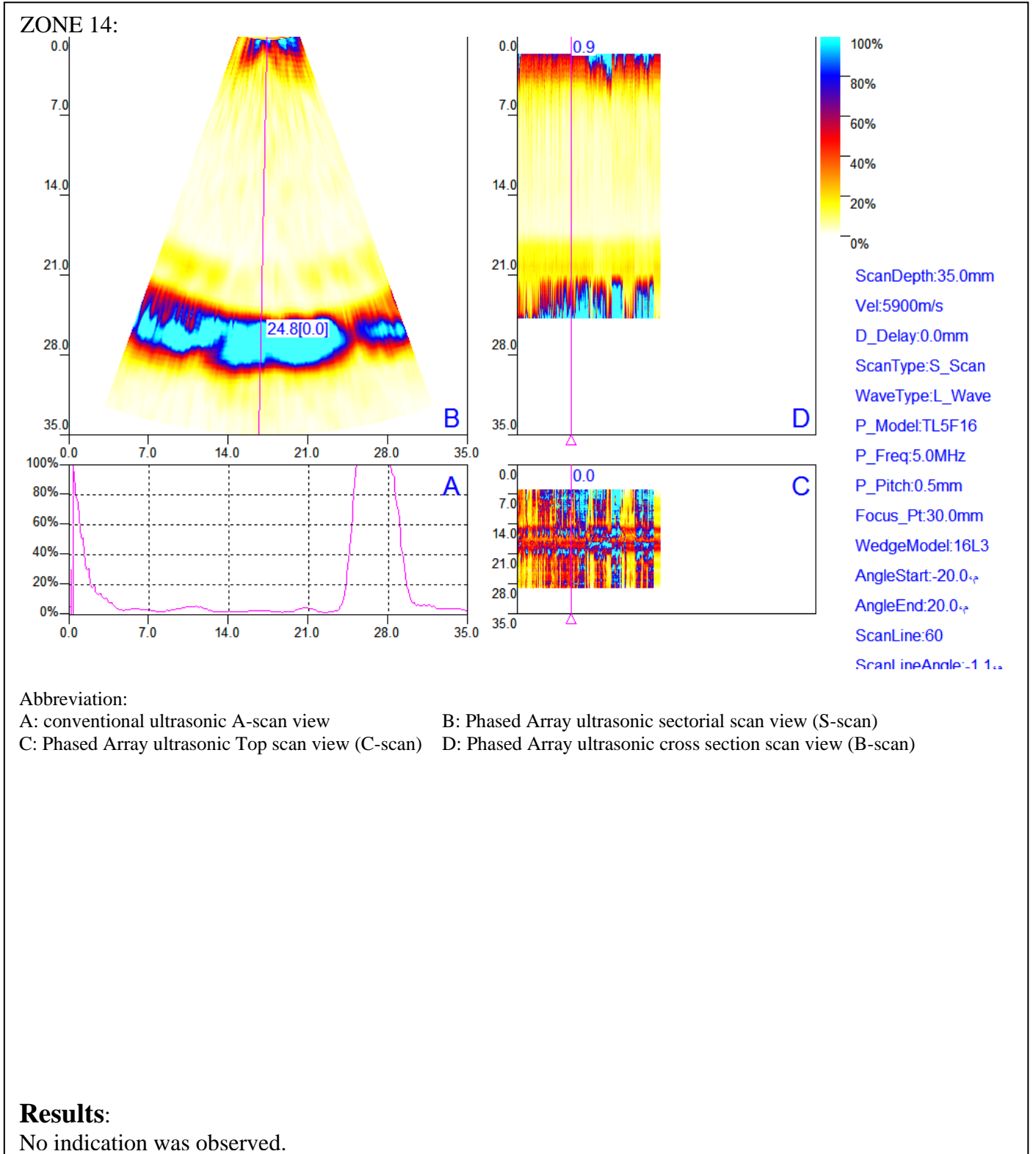




# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

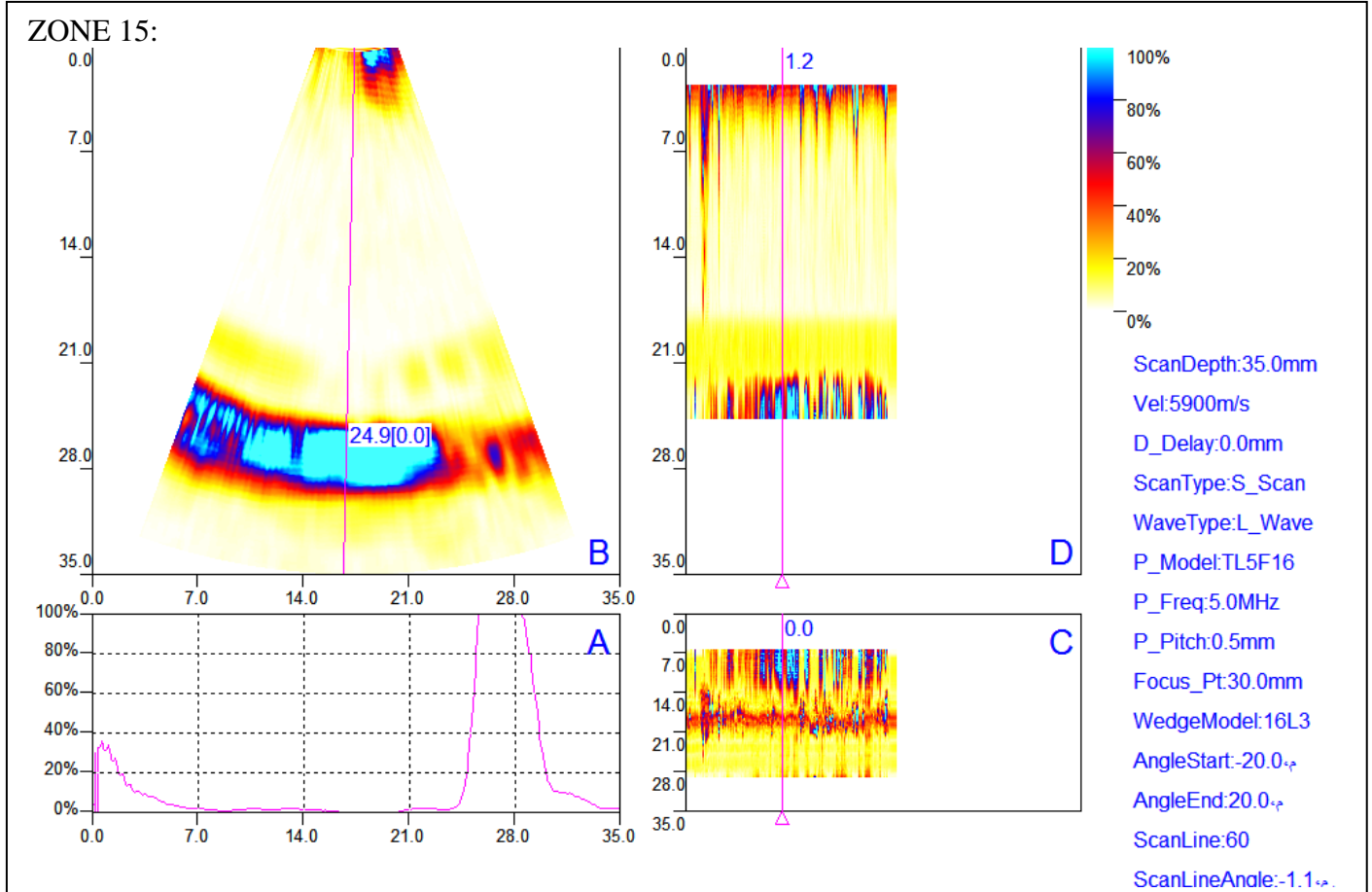




# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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**Abbreviation:**

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

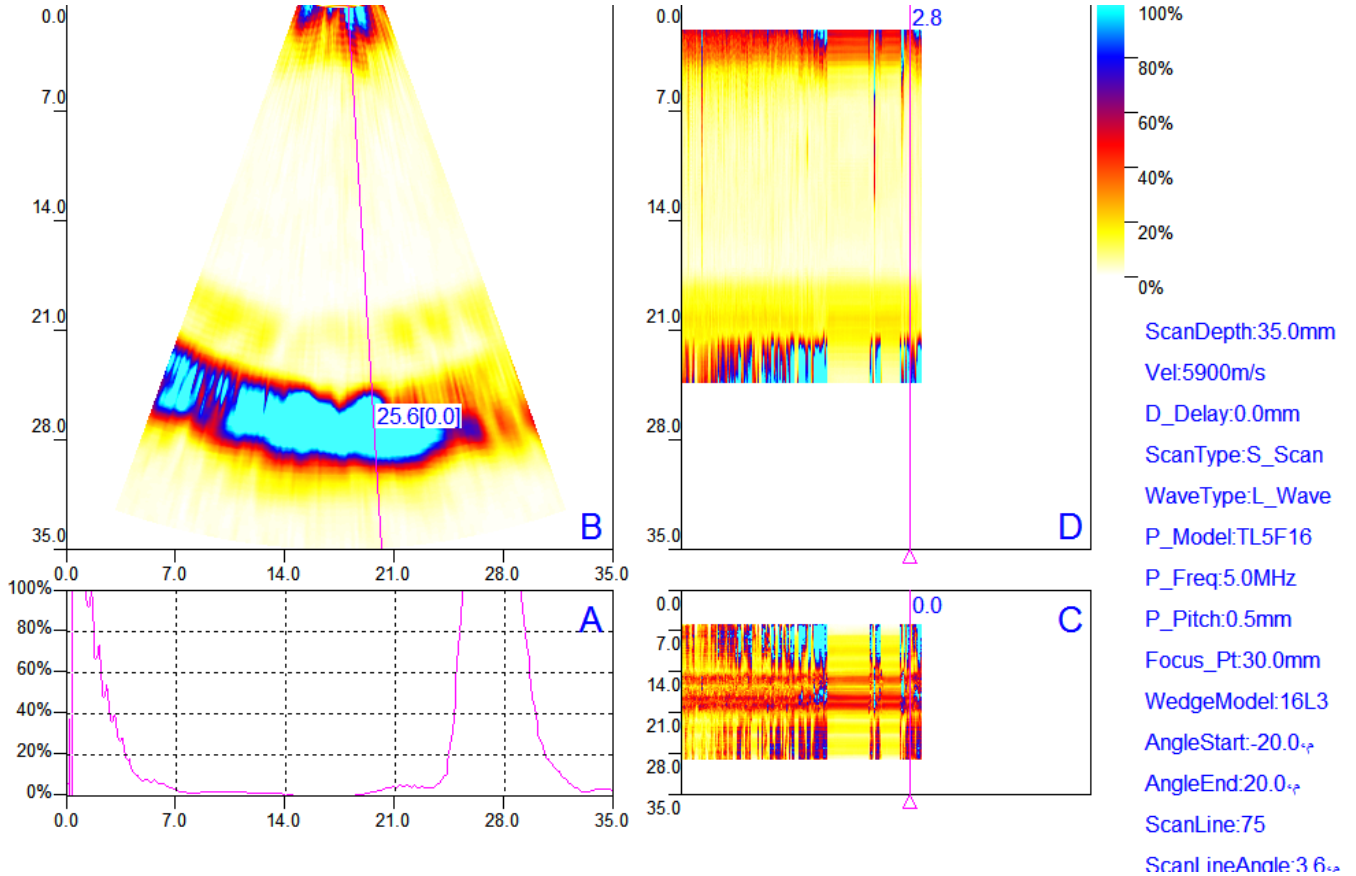


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 16:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

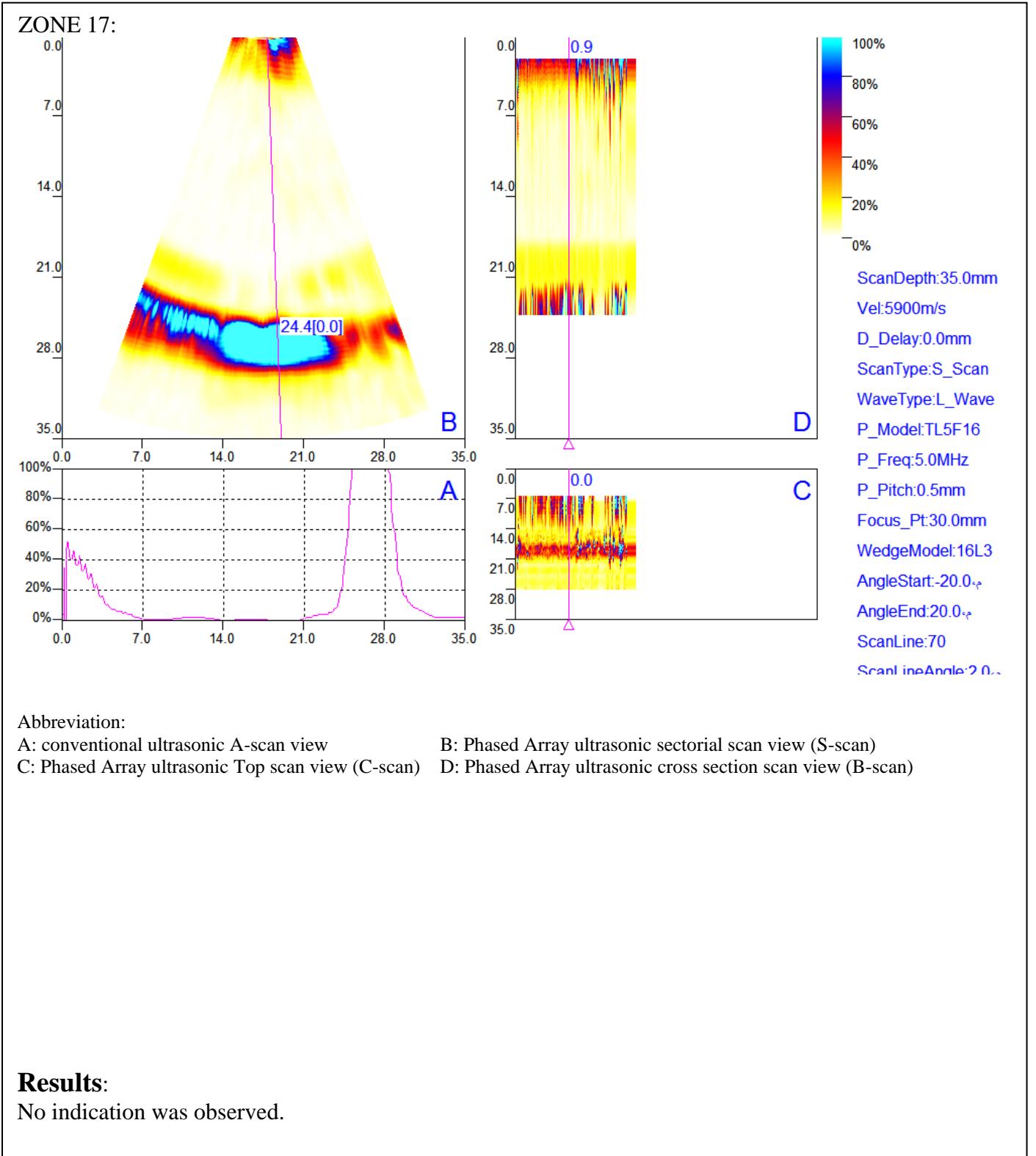
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

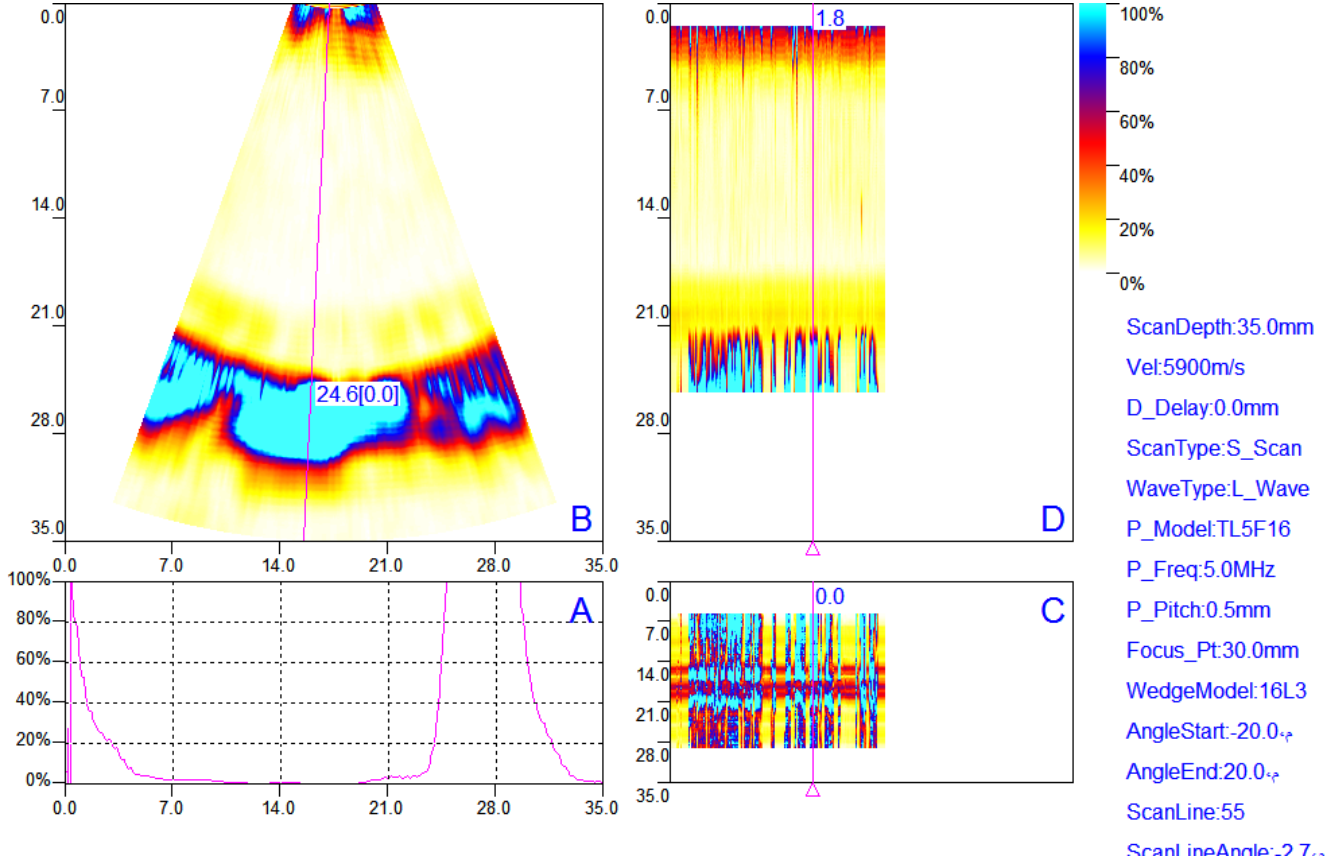


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 18:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

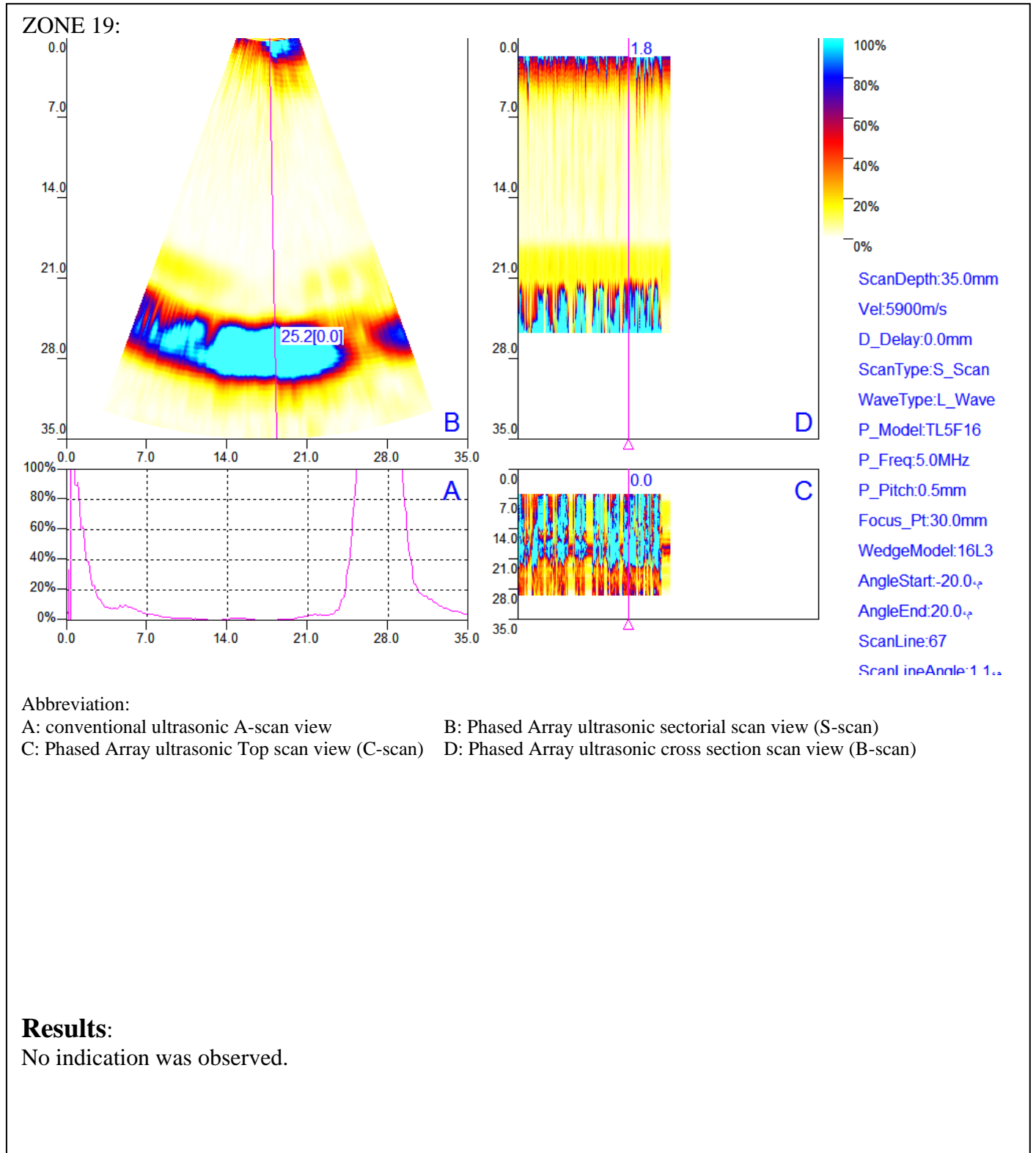
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

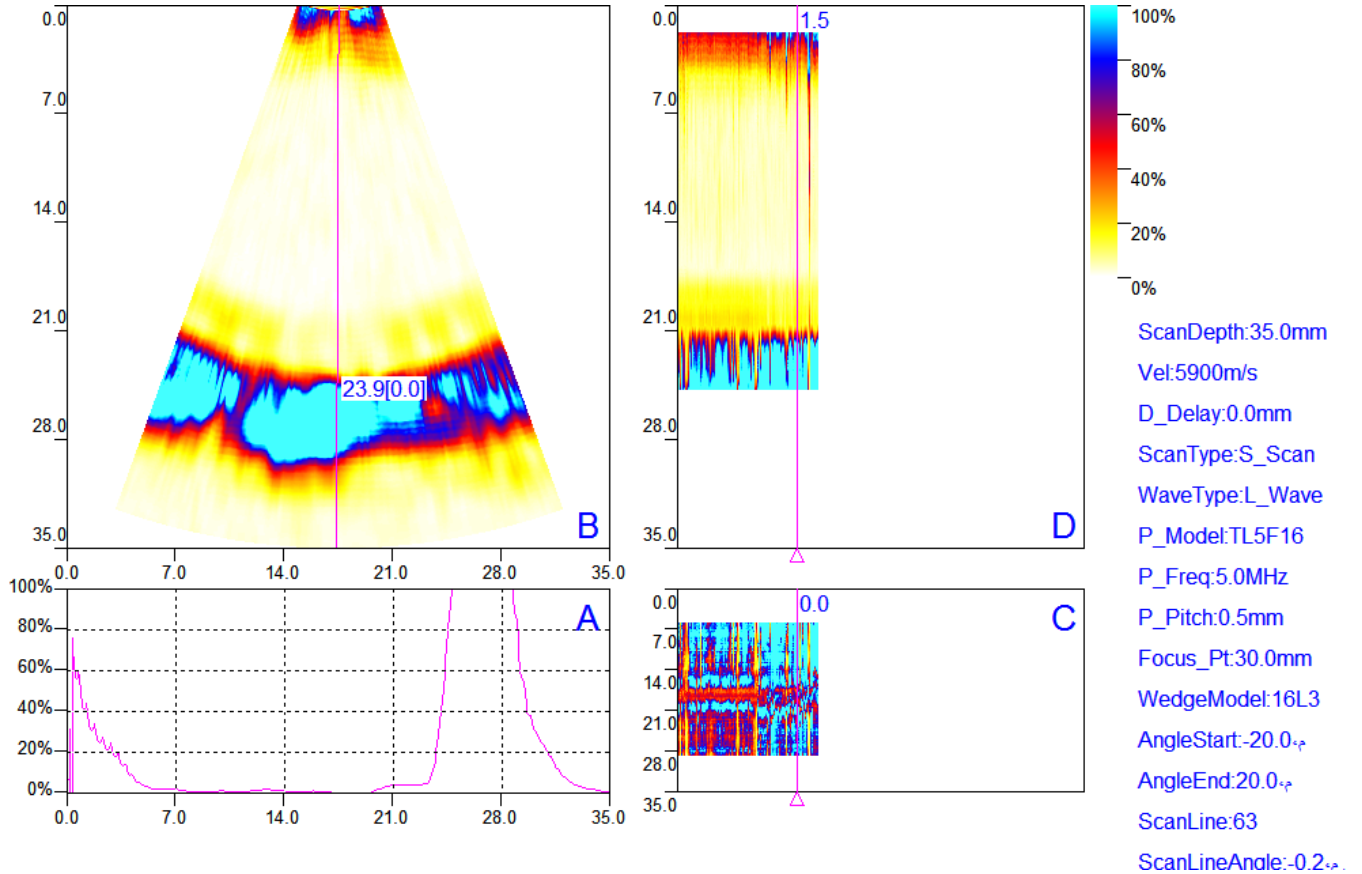


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 20:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

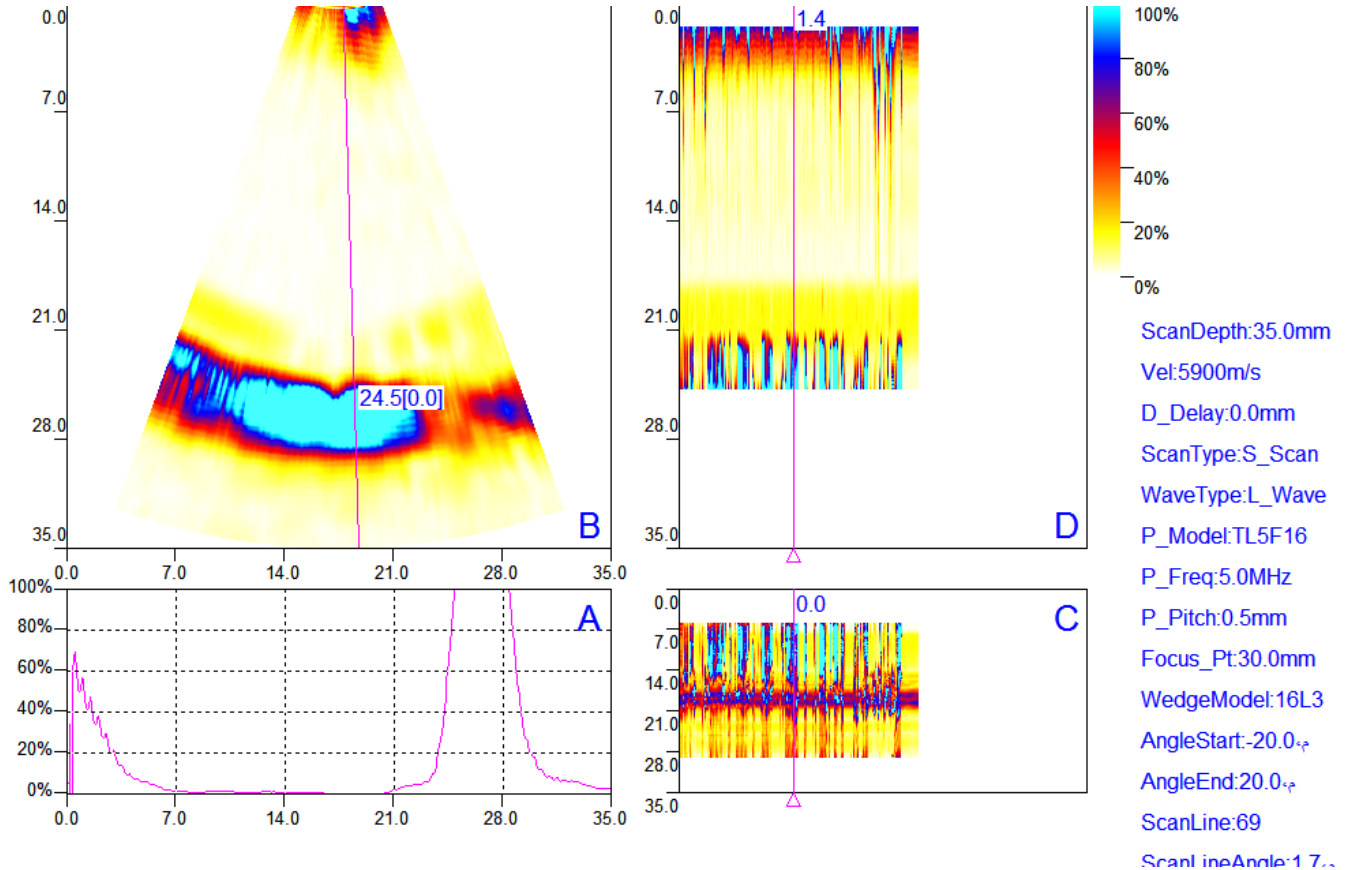


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 21:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



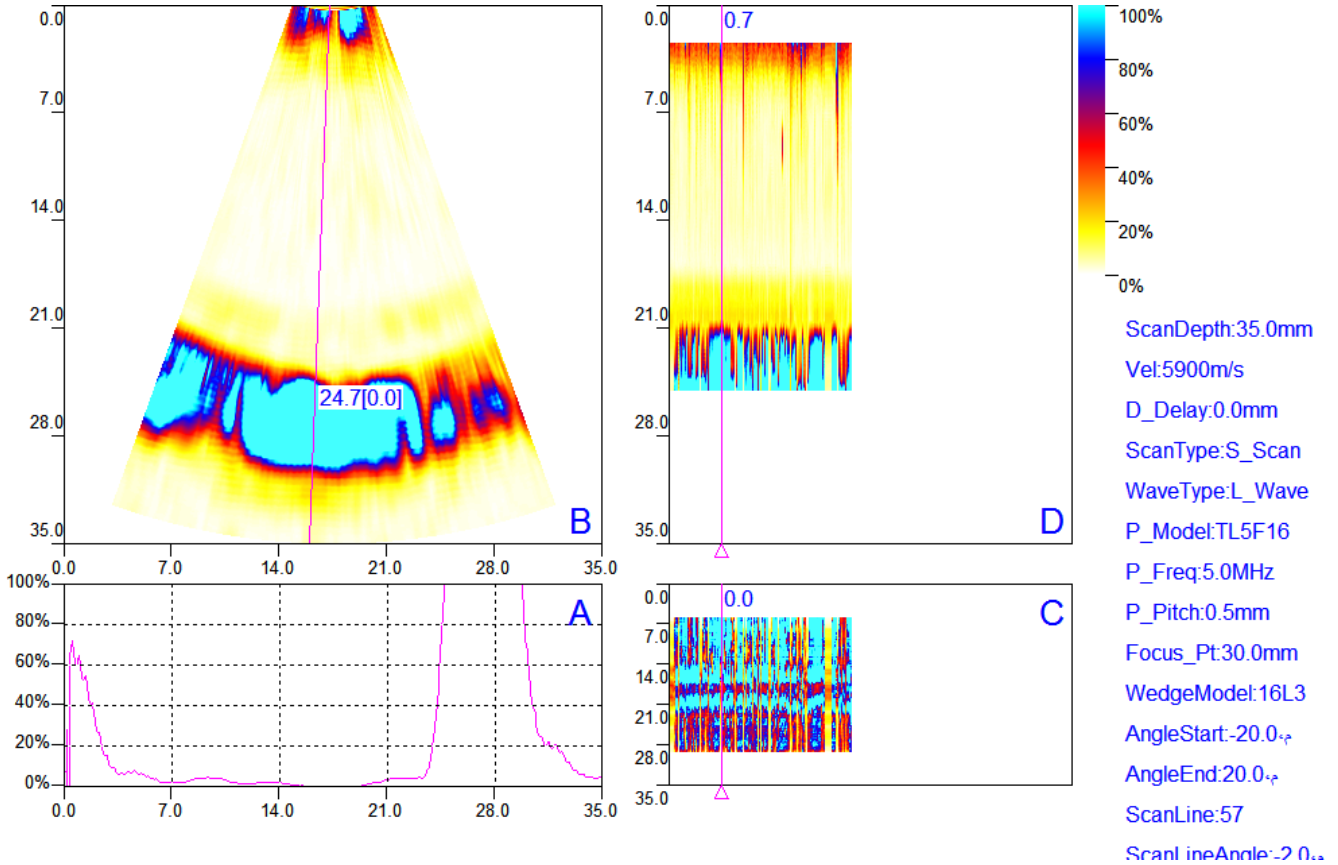


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 22:



Abbreviation:

A: conventional ultrasonic A-scan view

B: Phased Array ultrasonic sectorial scan view (S-scan)

C: Phased Array ultrasonic Top scan view (C-scan)

D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

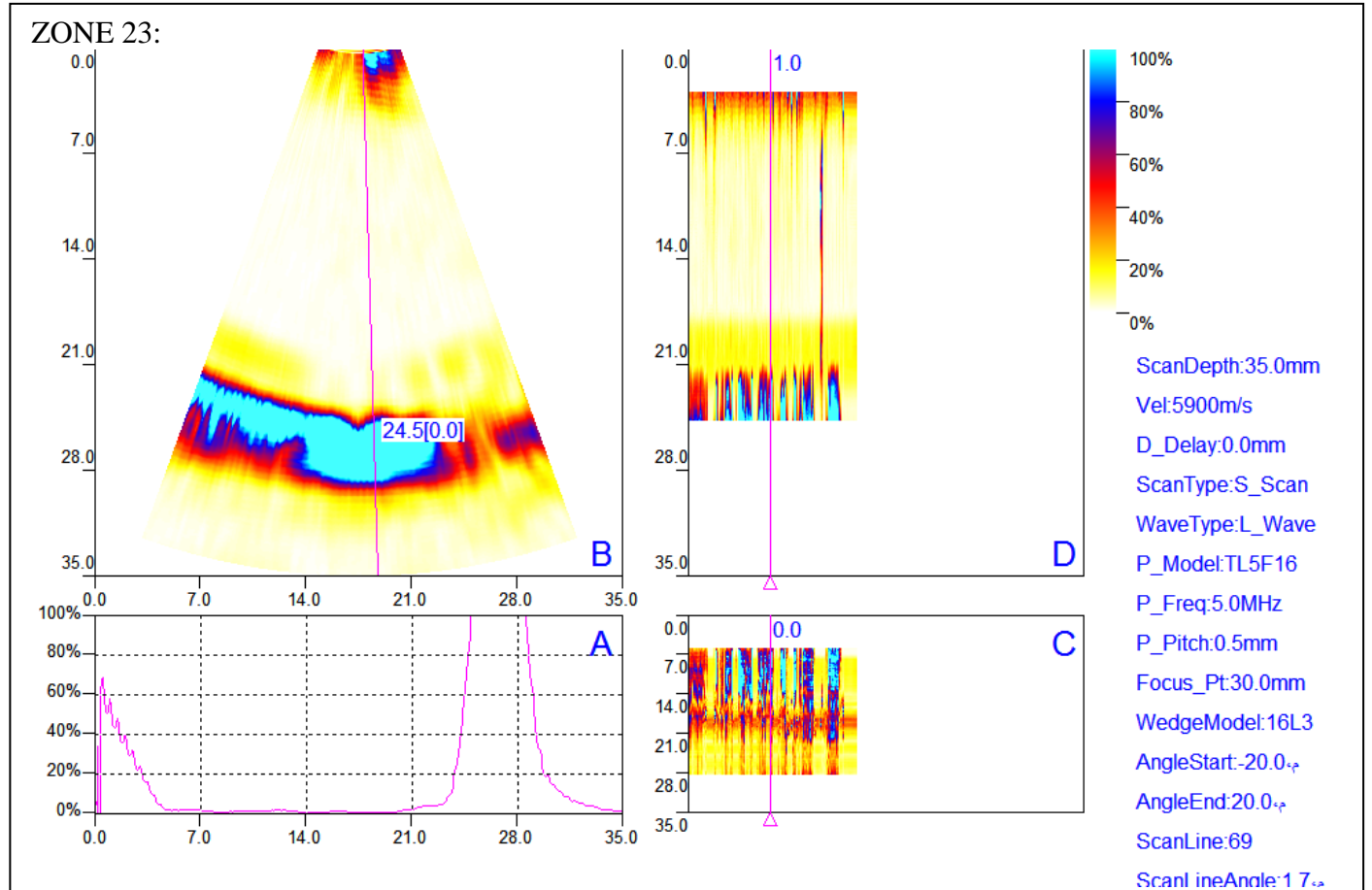




# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	28 of 55



**Abbreviation:**

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

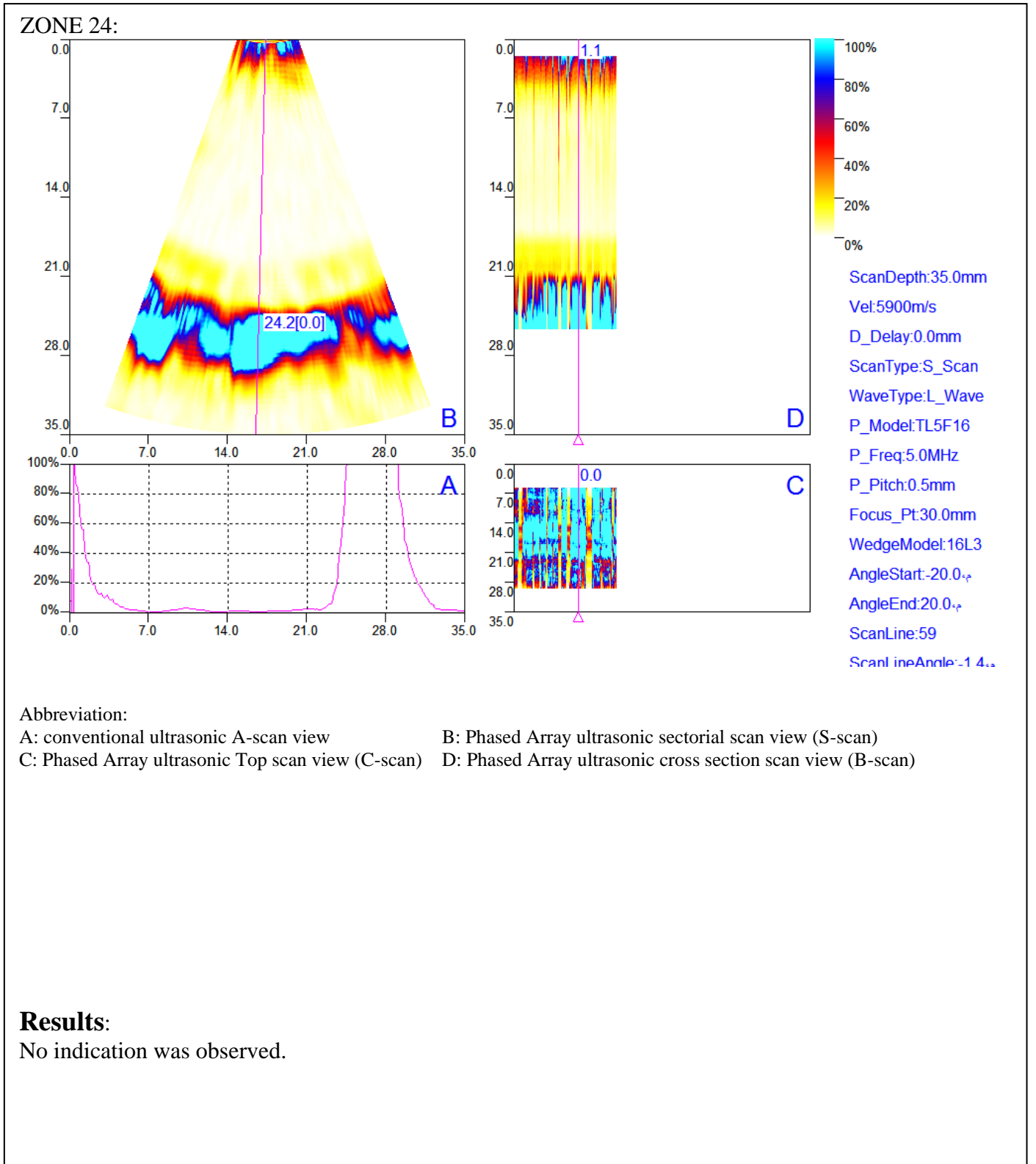
<b>Inspector(s):</b>	<b>Approved by :</b>	<b>Client :</b>
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

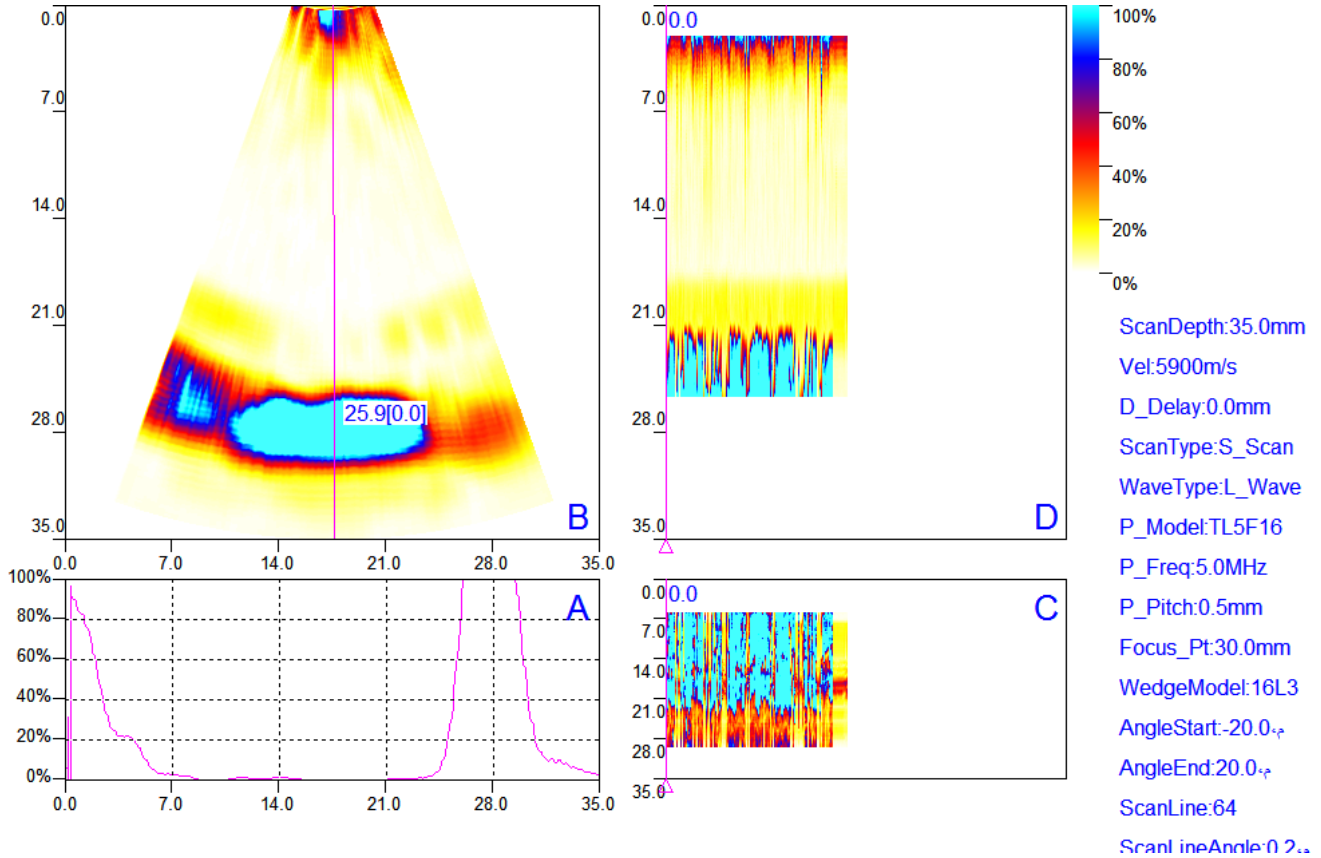


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 25:



Abbreviation:

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

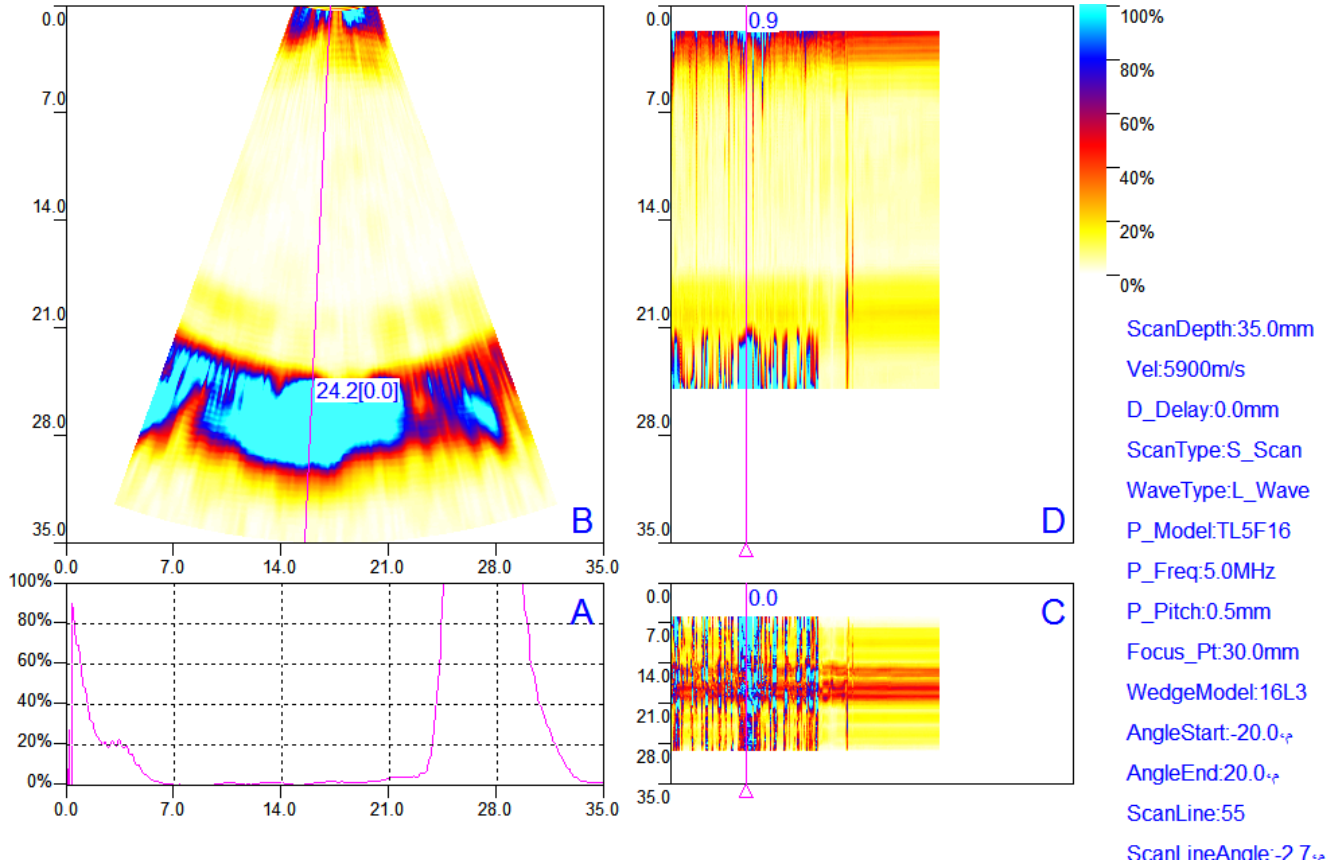


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	31 of 55

ZONE 26:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

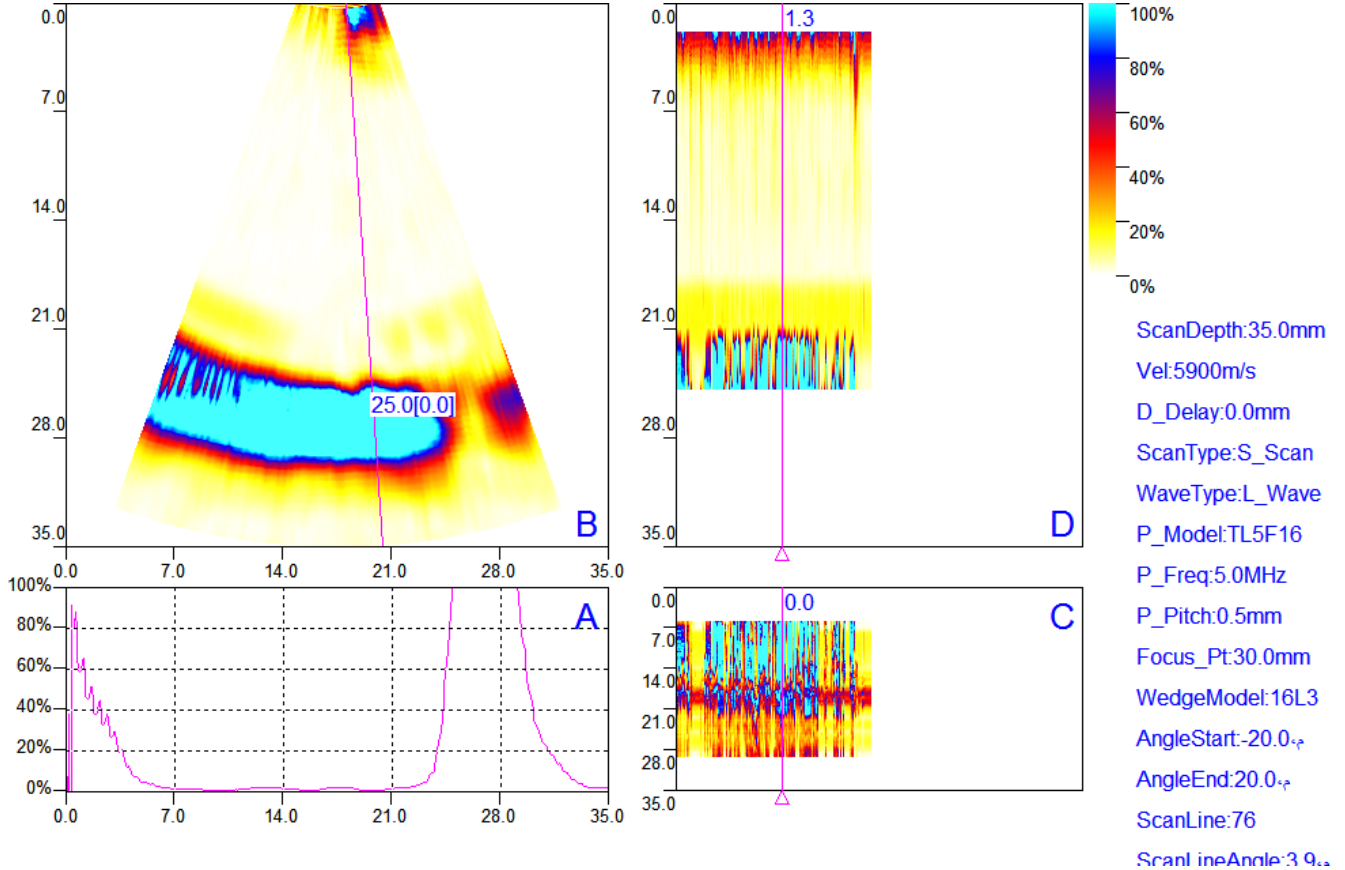


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 27:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

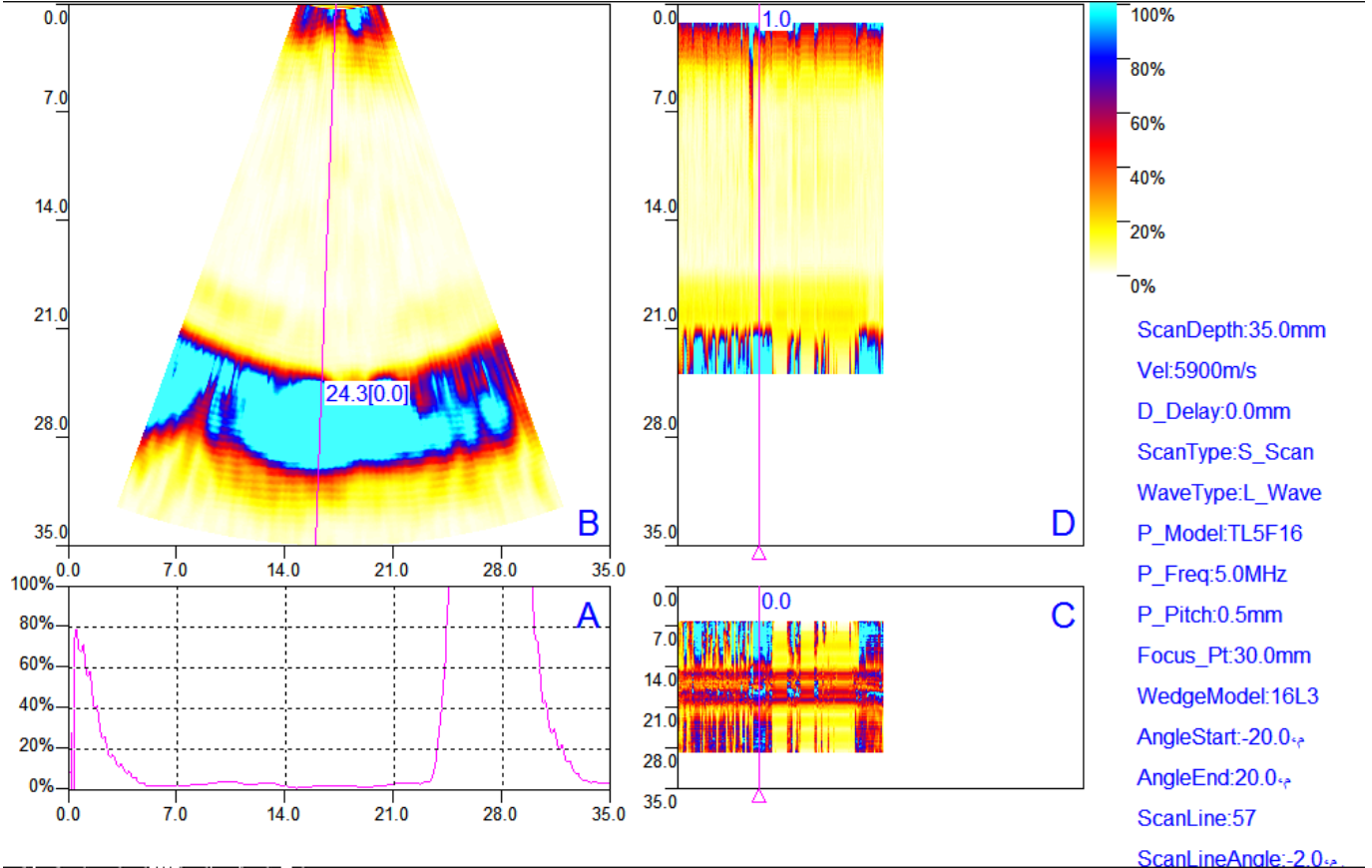


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 28:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

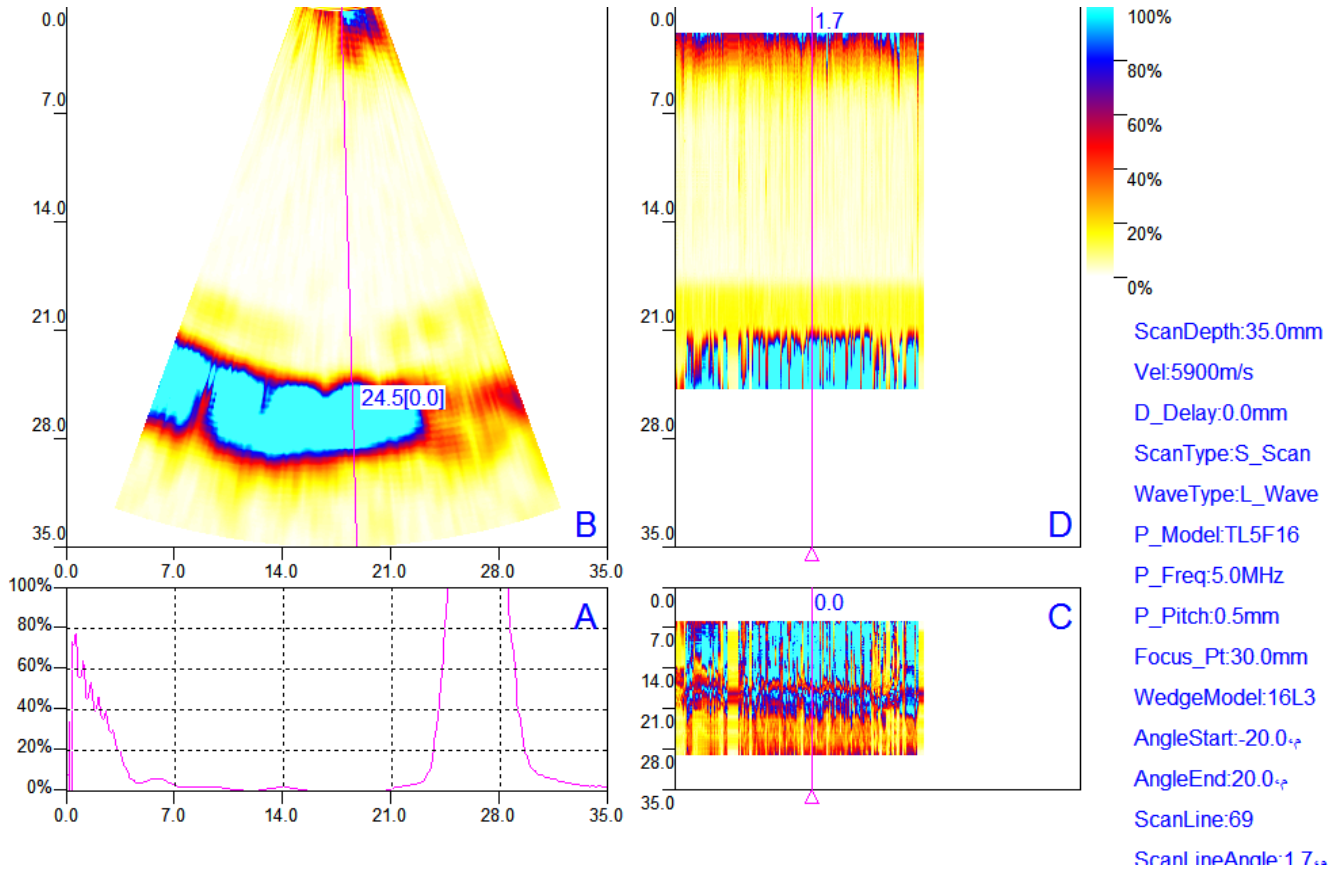


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	34 of 55

ZONE 29:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



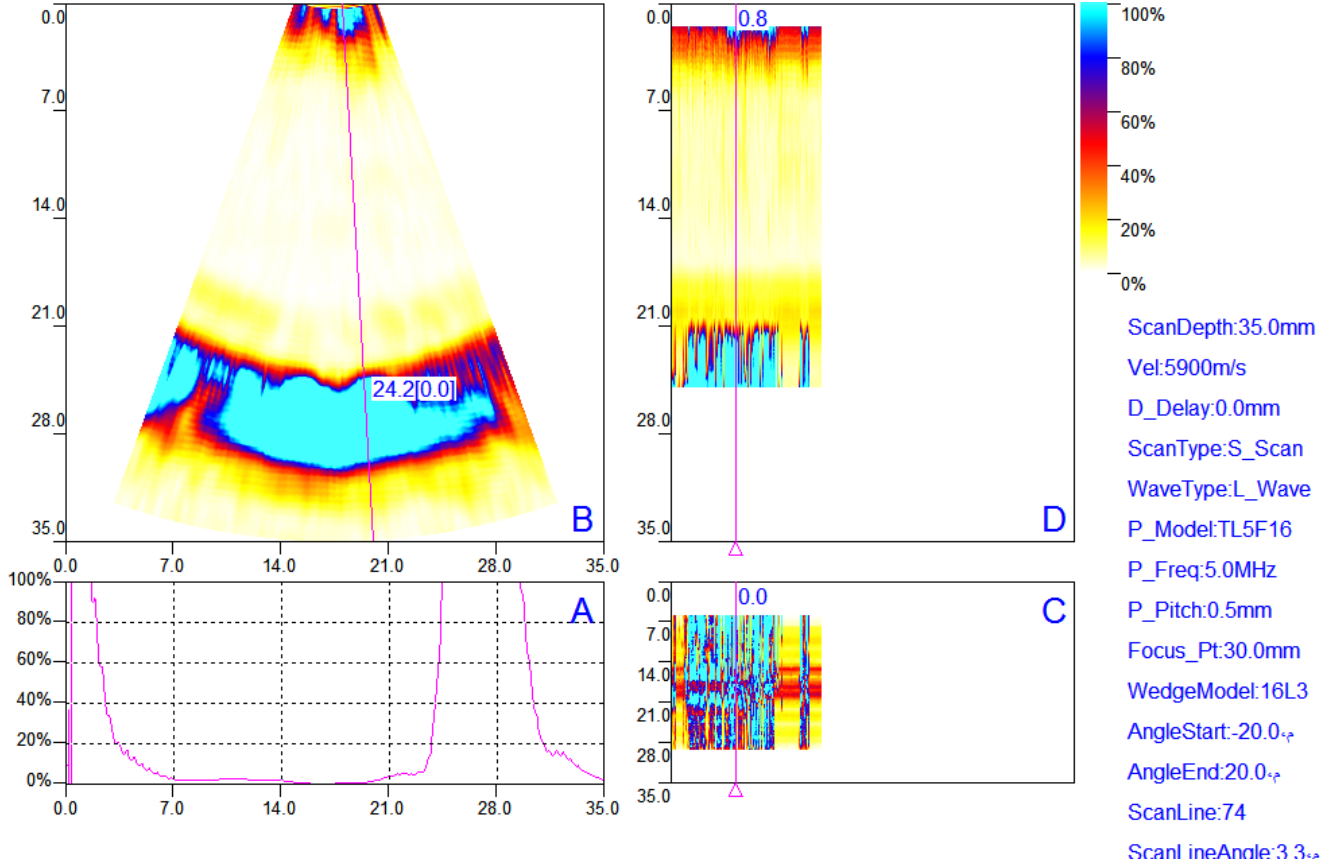


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 30:



Abbreviation:

A: conventional ultrasonic A-scan view

B: Phased Array ultrasonic sectorial scan view (S-scan)

C: Phased Array ultrasonic Top scan view (C-scan)

D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

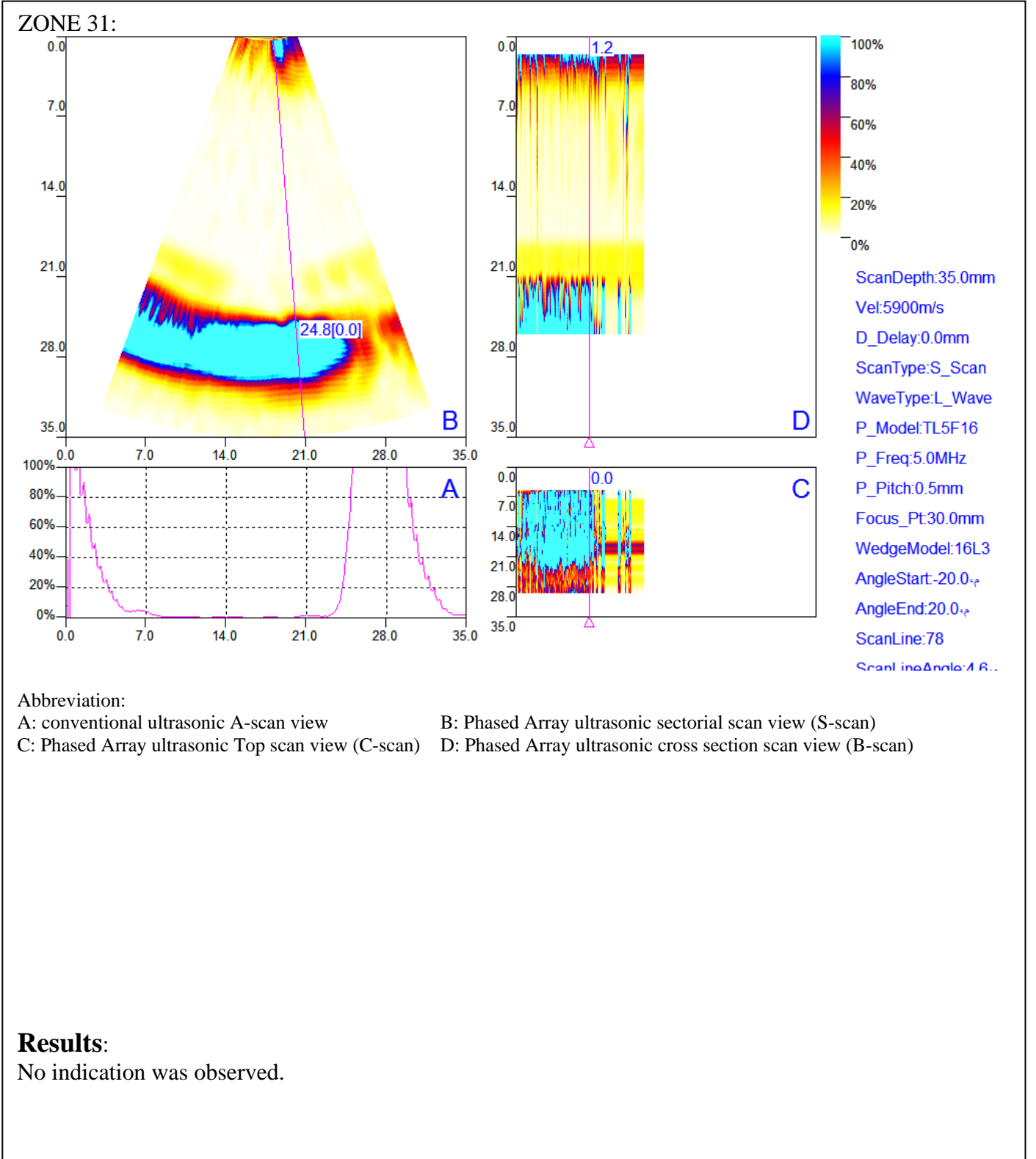




# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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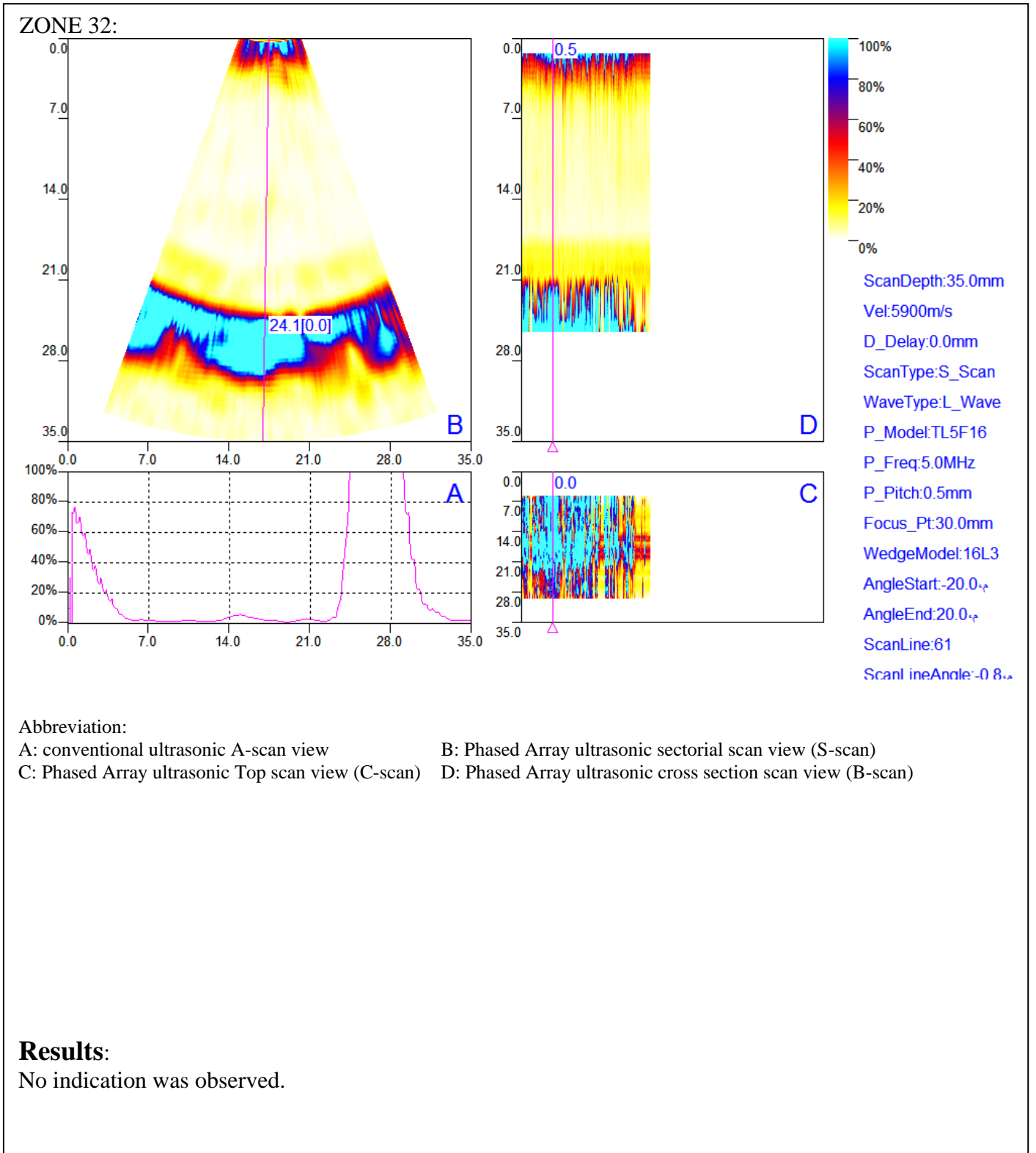
<b>Inspector(s):</b>	<b>Approved by :</b>	<b>Client :</b>
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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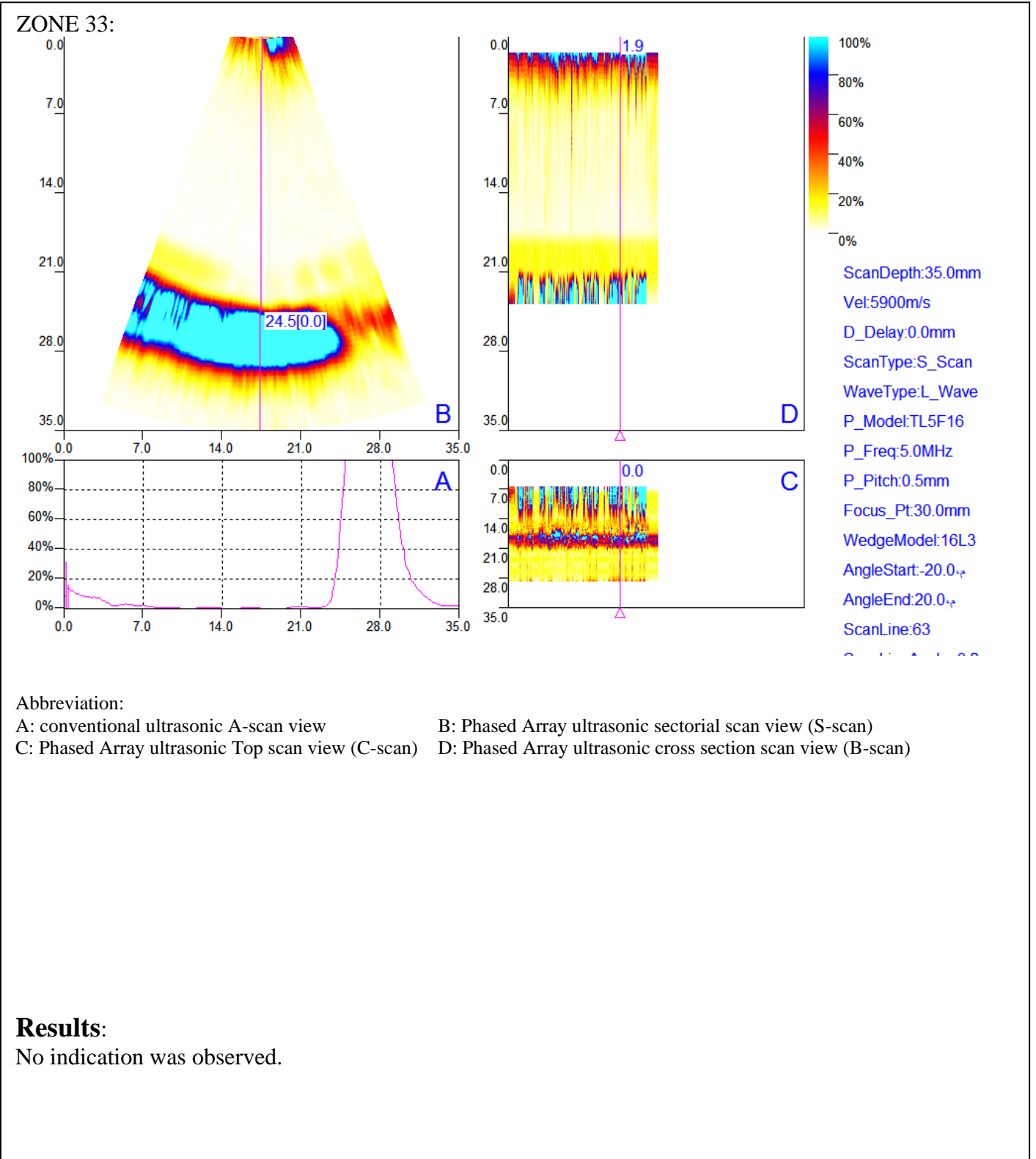
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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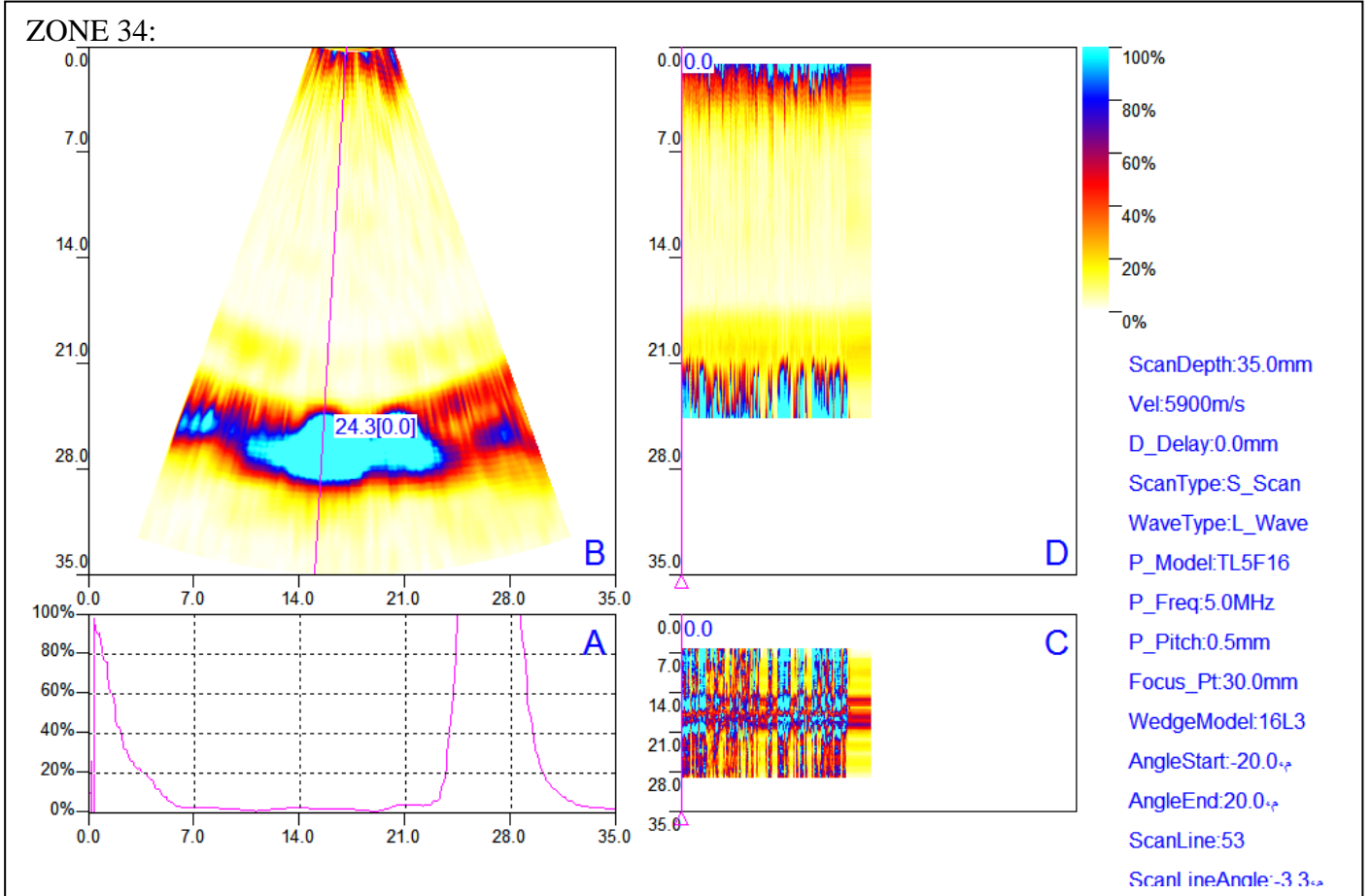
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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**Abbreviation:**

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

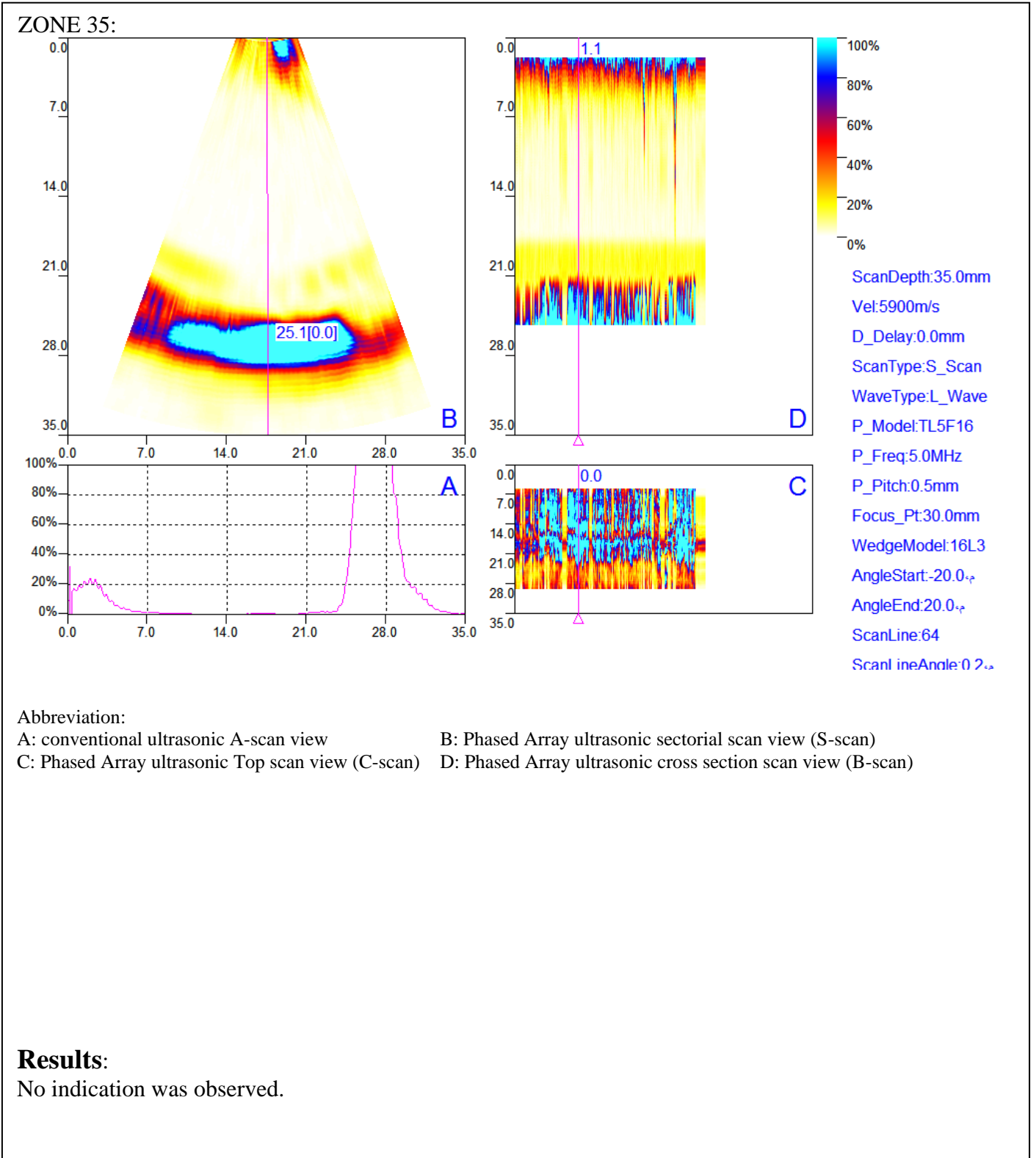
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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<b>Inspector(s):</b>	<b>Approved by :</b>	<b>Client :</b>
Level:II Sign:	Level: III Sign:	Date:

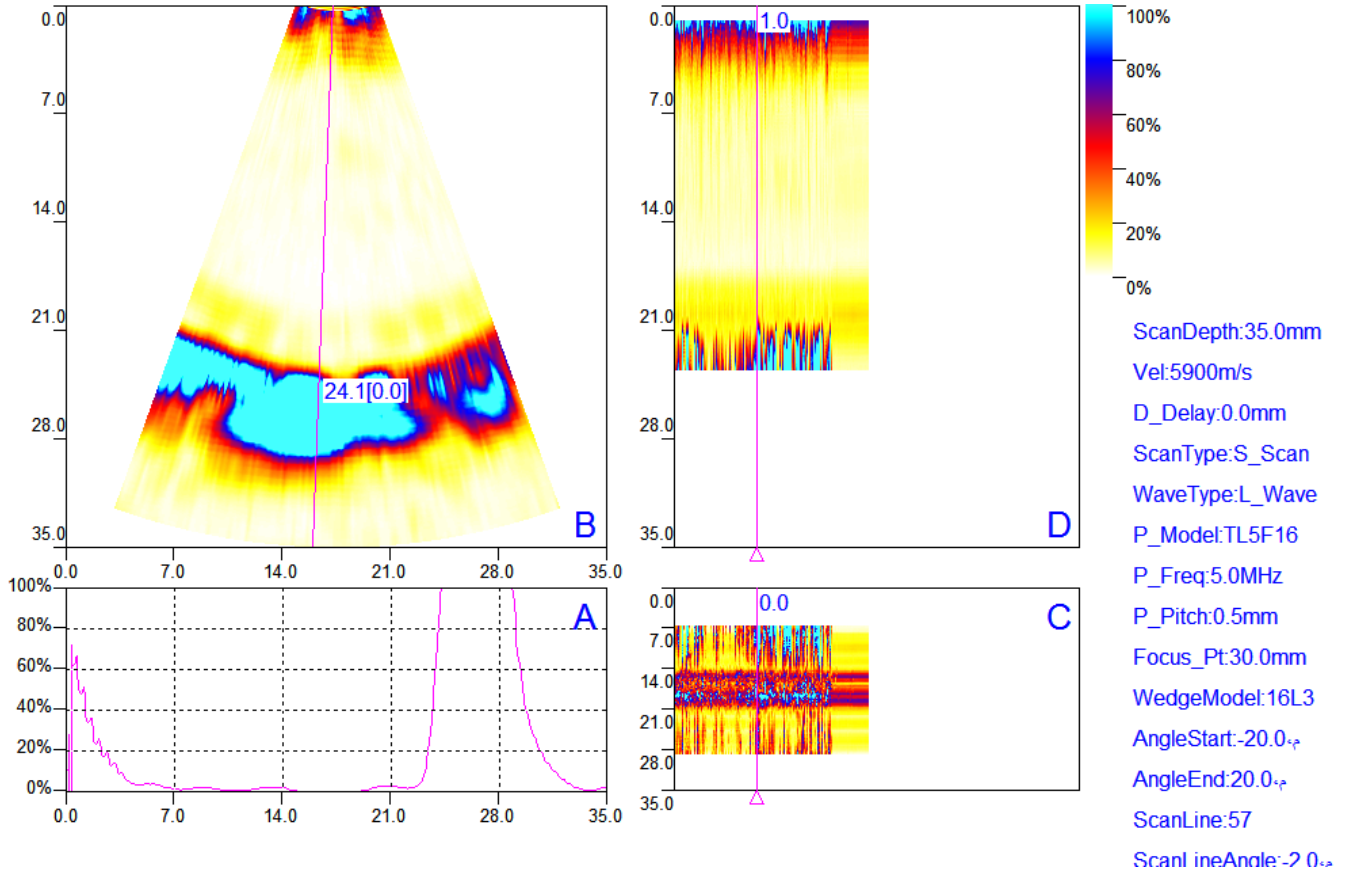


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	41 of 55

ZONE 36:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

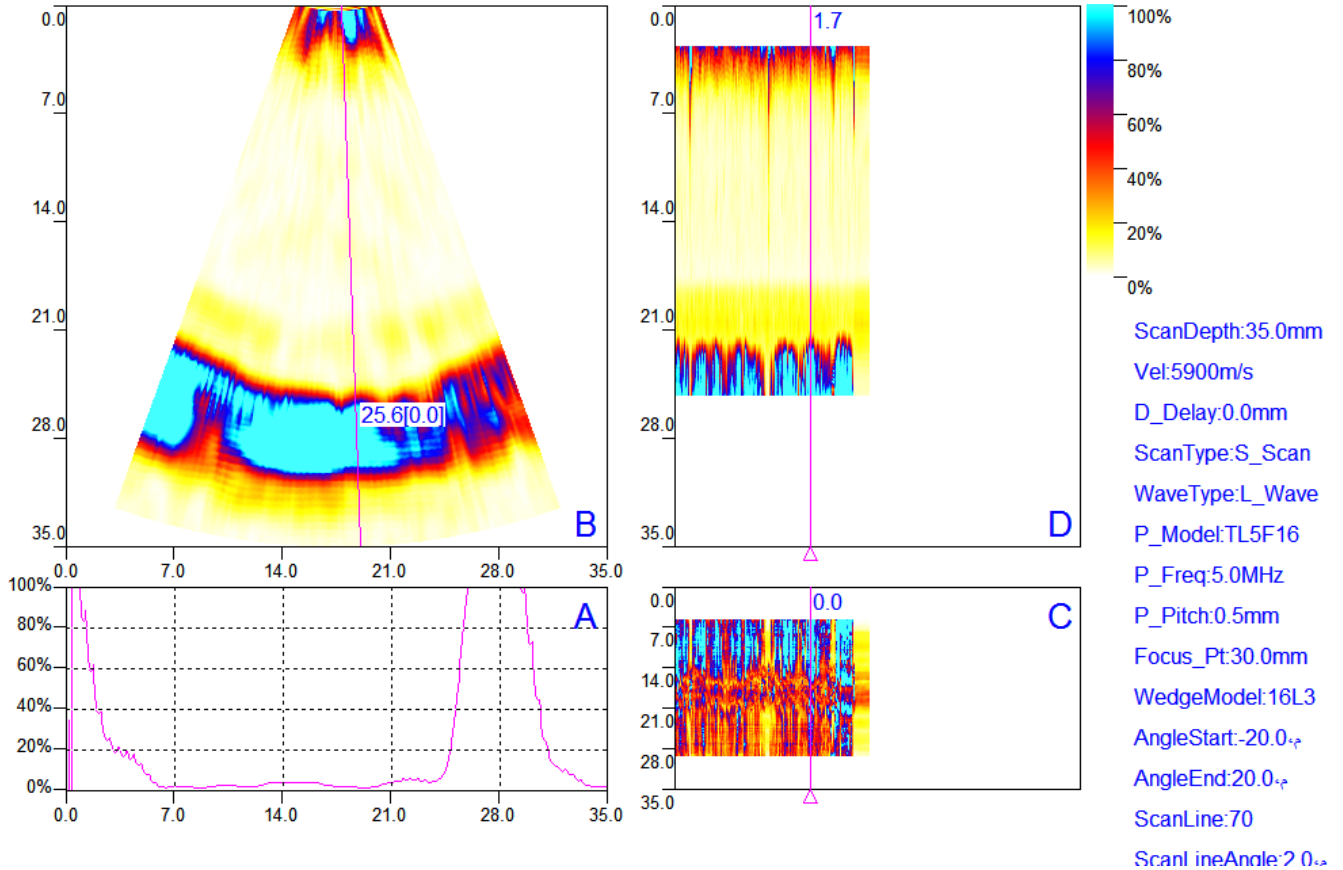


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	42 of 55

ZONE 37:



Abbreviation:

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



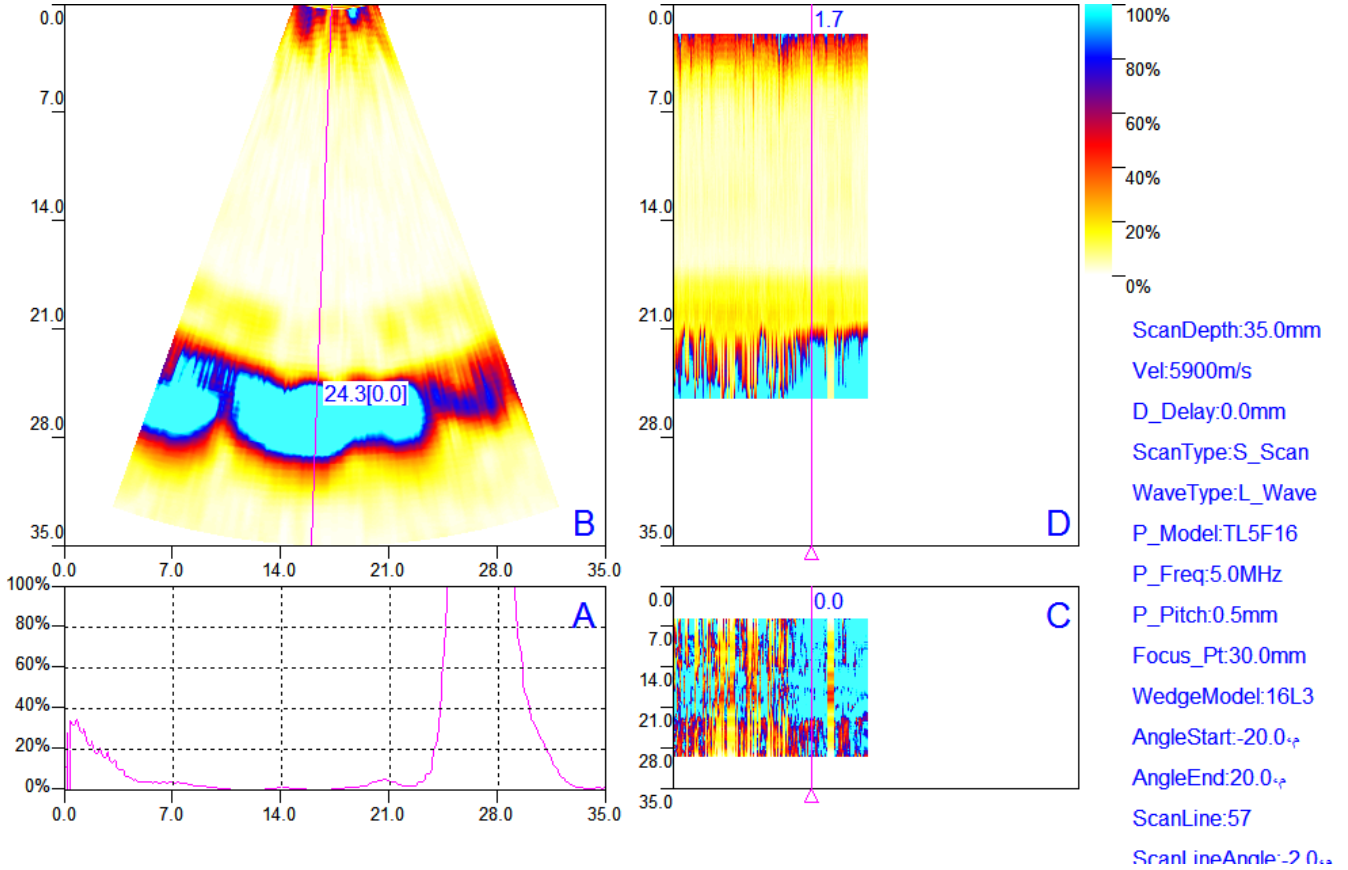


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	43 of 55

ZONE 38:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



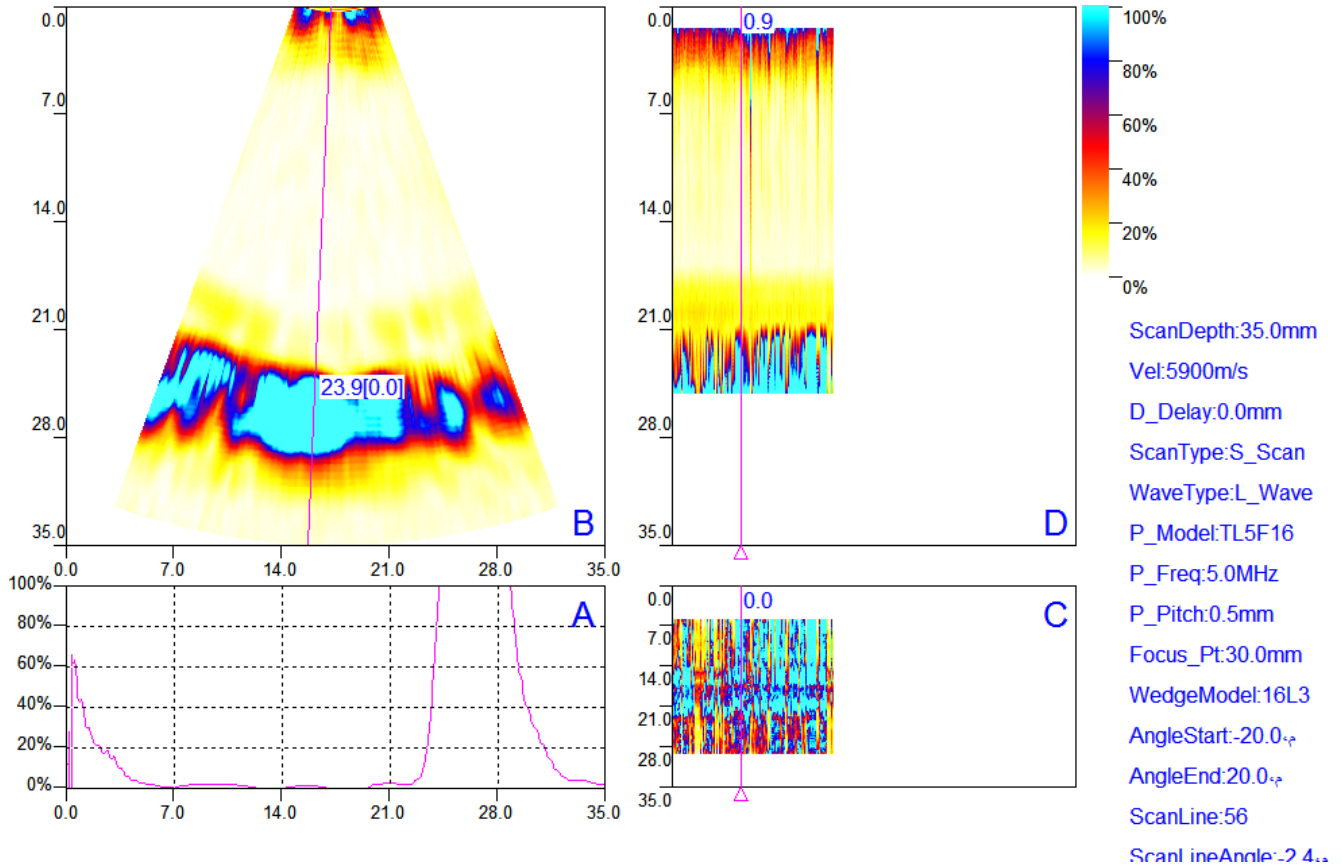


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	44 of 55

ZONE 39:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

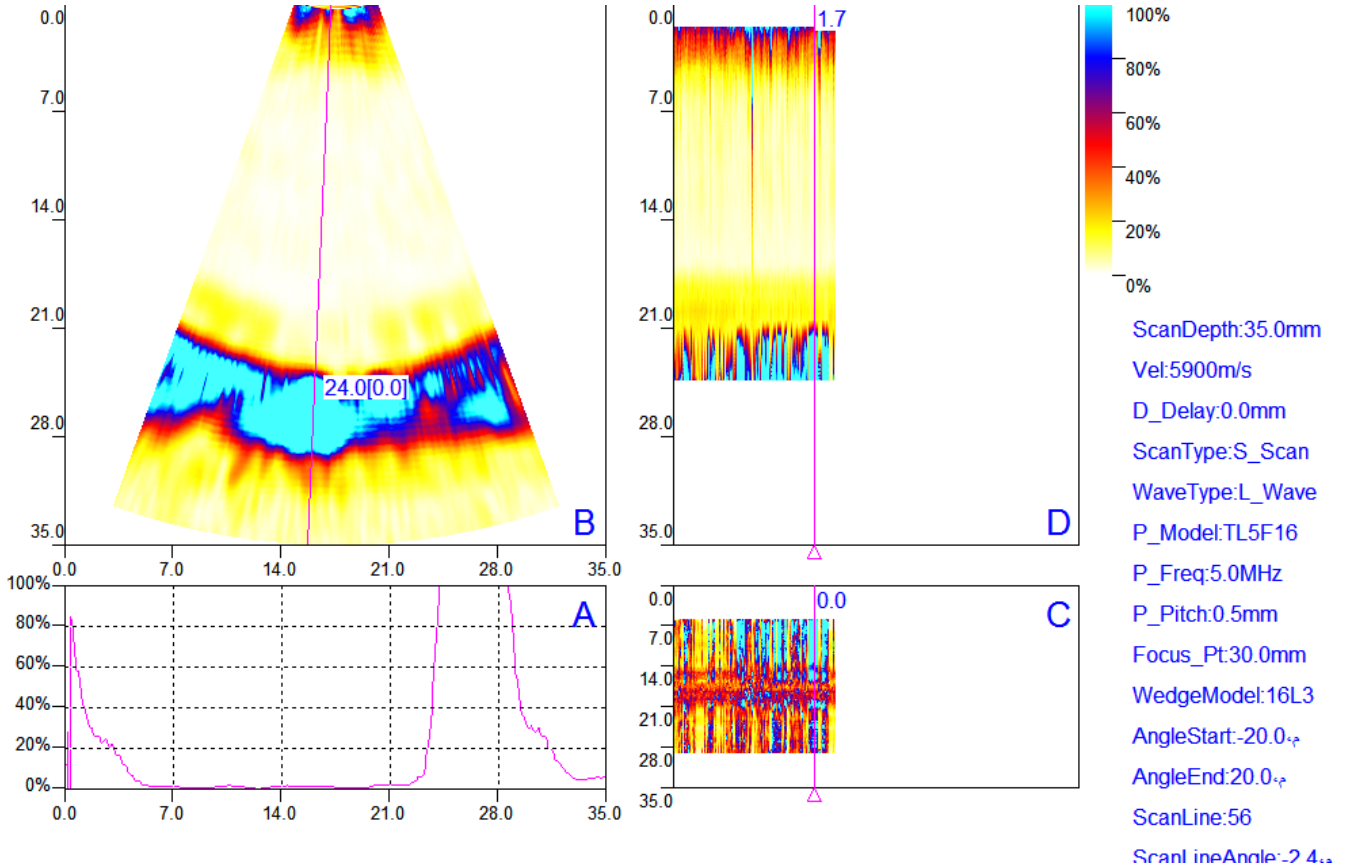


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	45 of 55

ZONE 40:



Abbreviation:

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

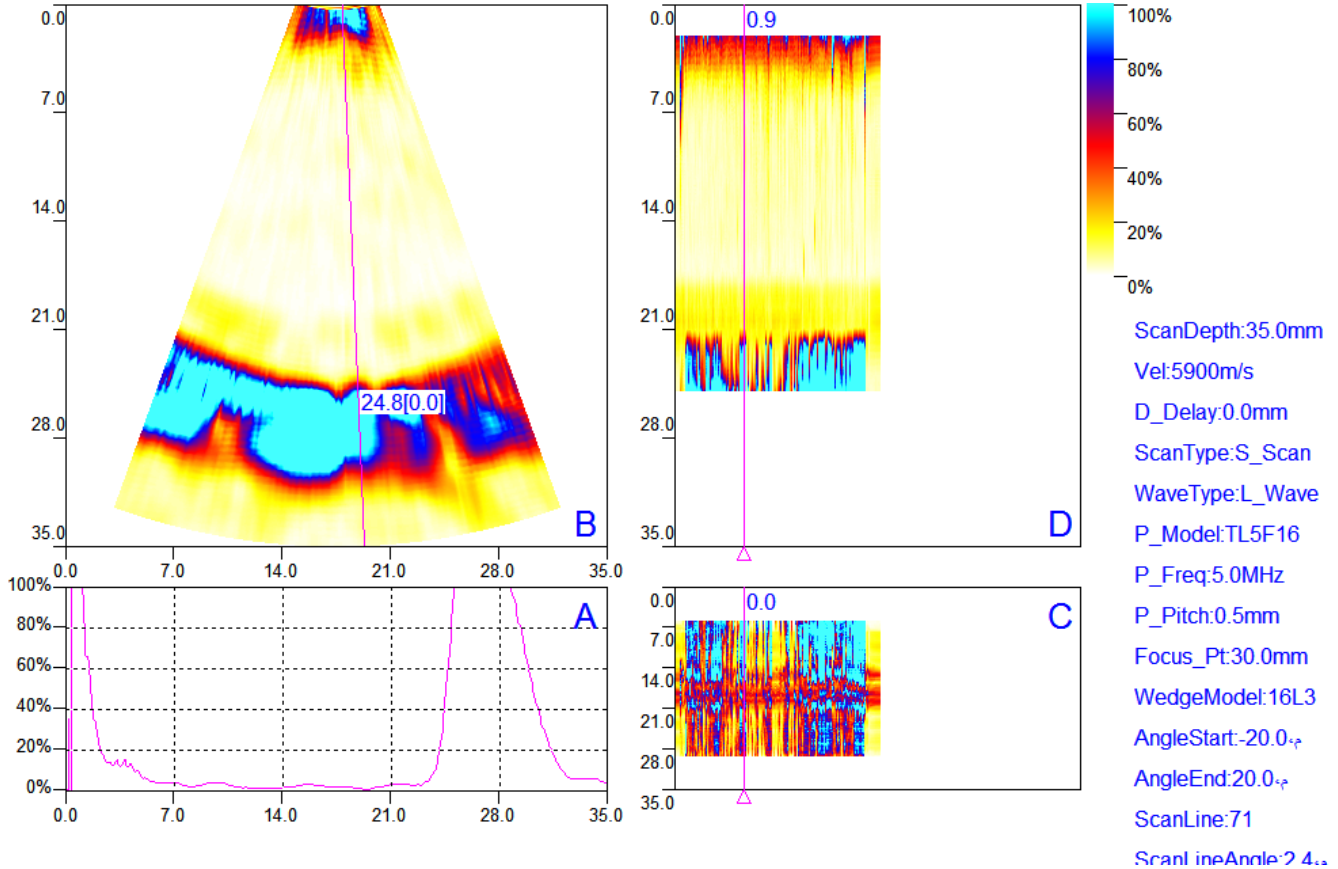


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 41:



Abbreviation:

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

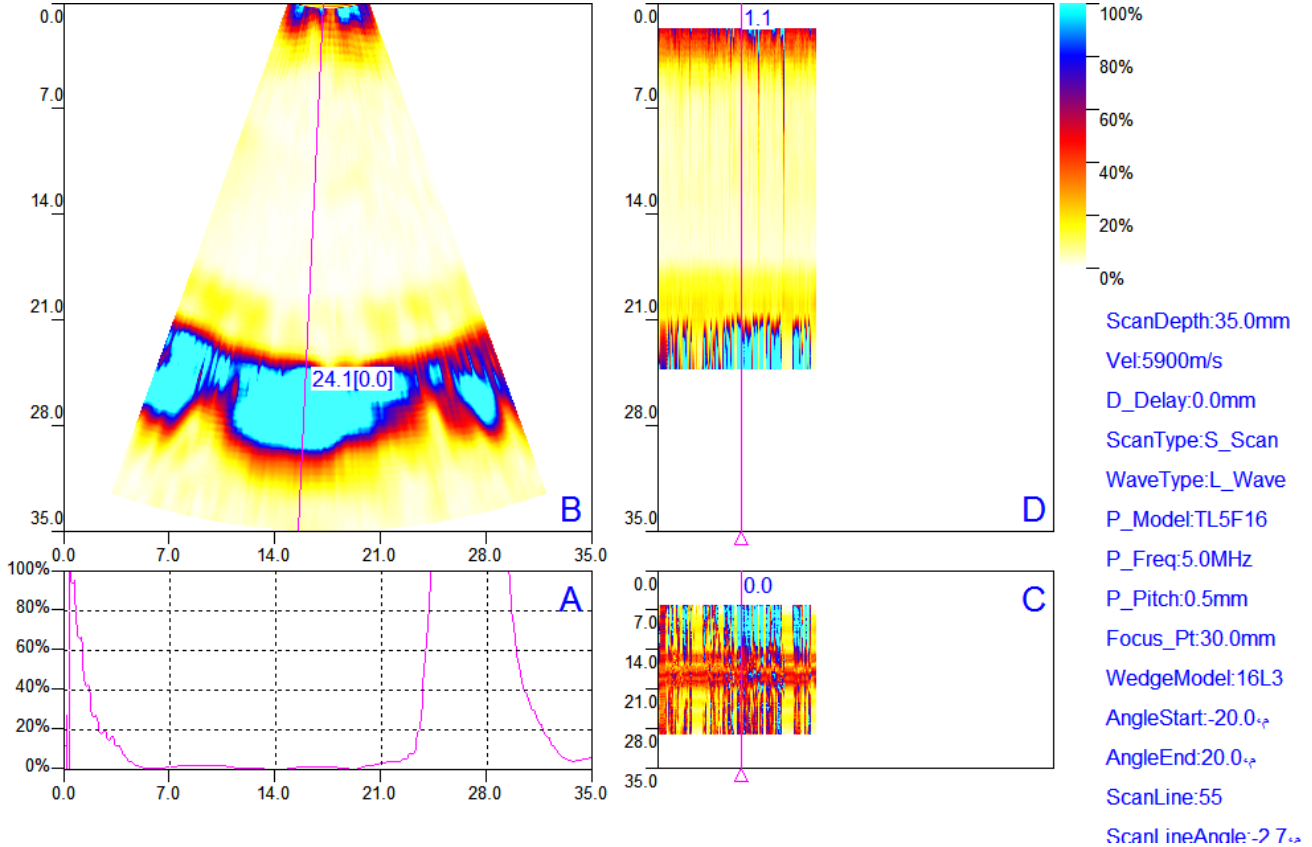


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 42:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

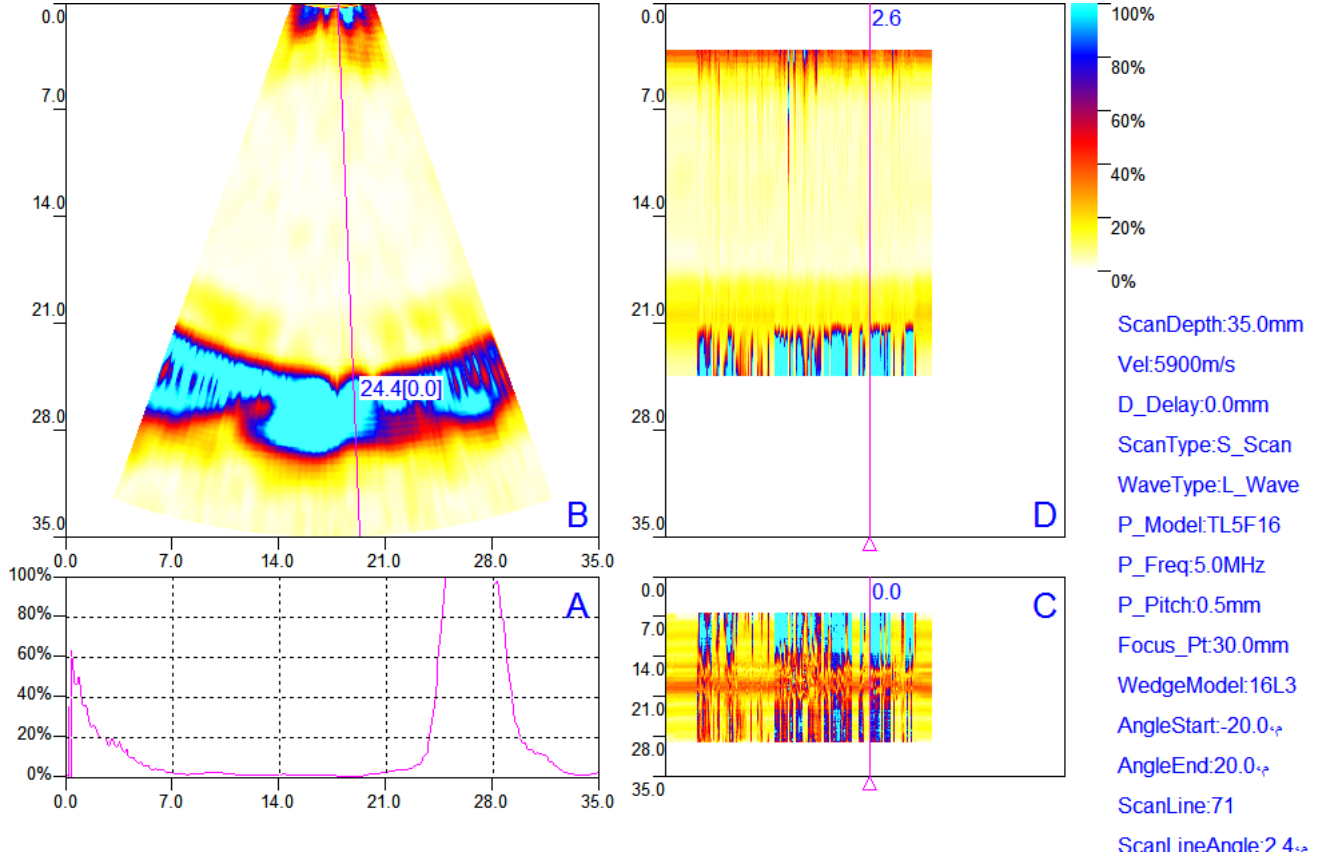


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 43:



Abbreviation:

- A: conventional ultrasonic A-scan view
- B: Phased Array ultrasonic sectorial scan view (S-scan)
- C: Phased Array ultrasonic Top scan view (C-scan)
- D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level: II Sign:	Level: III Sign:	Date:

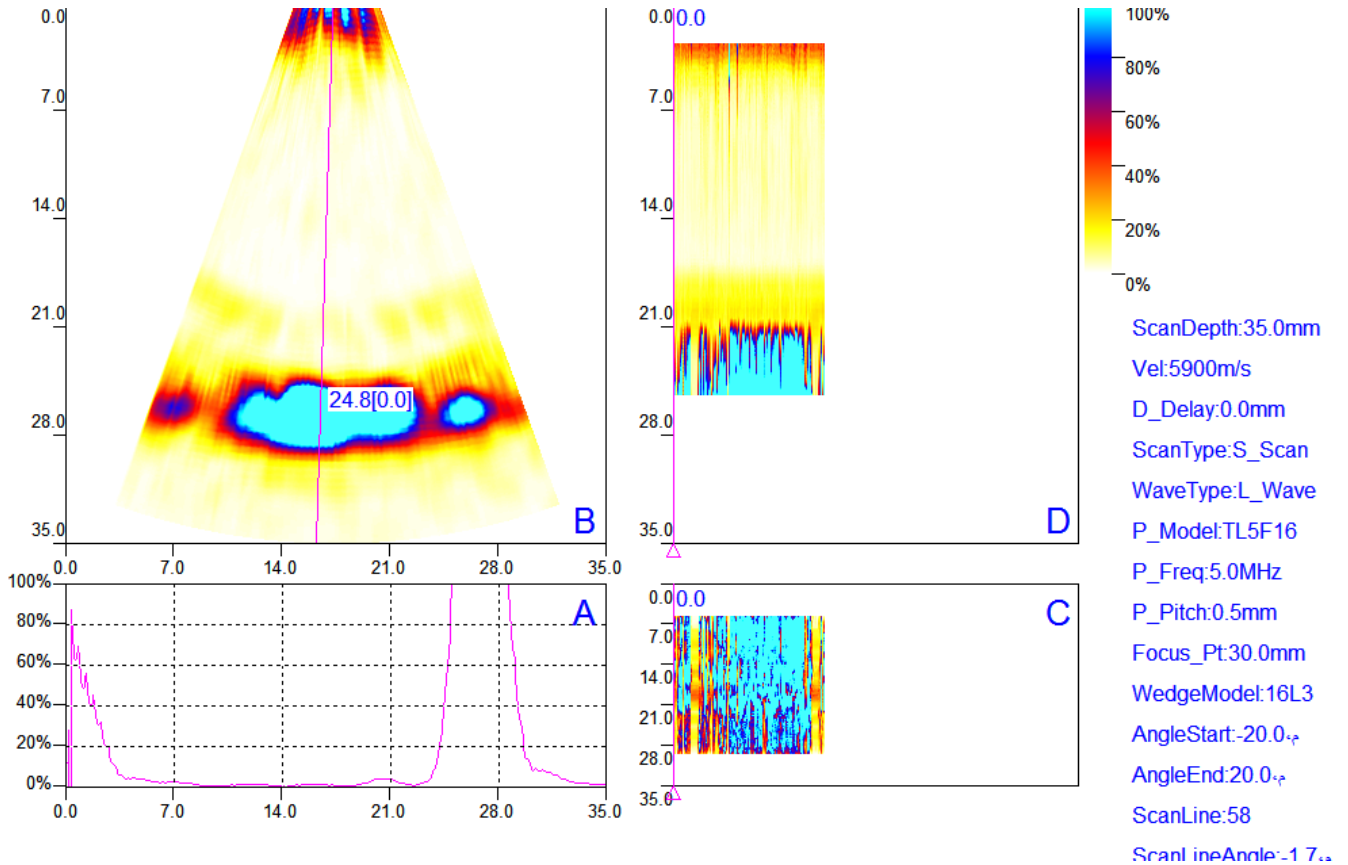


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 44:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

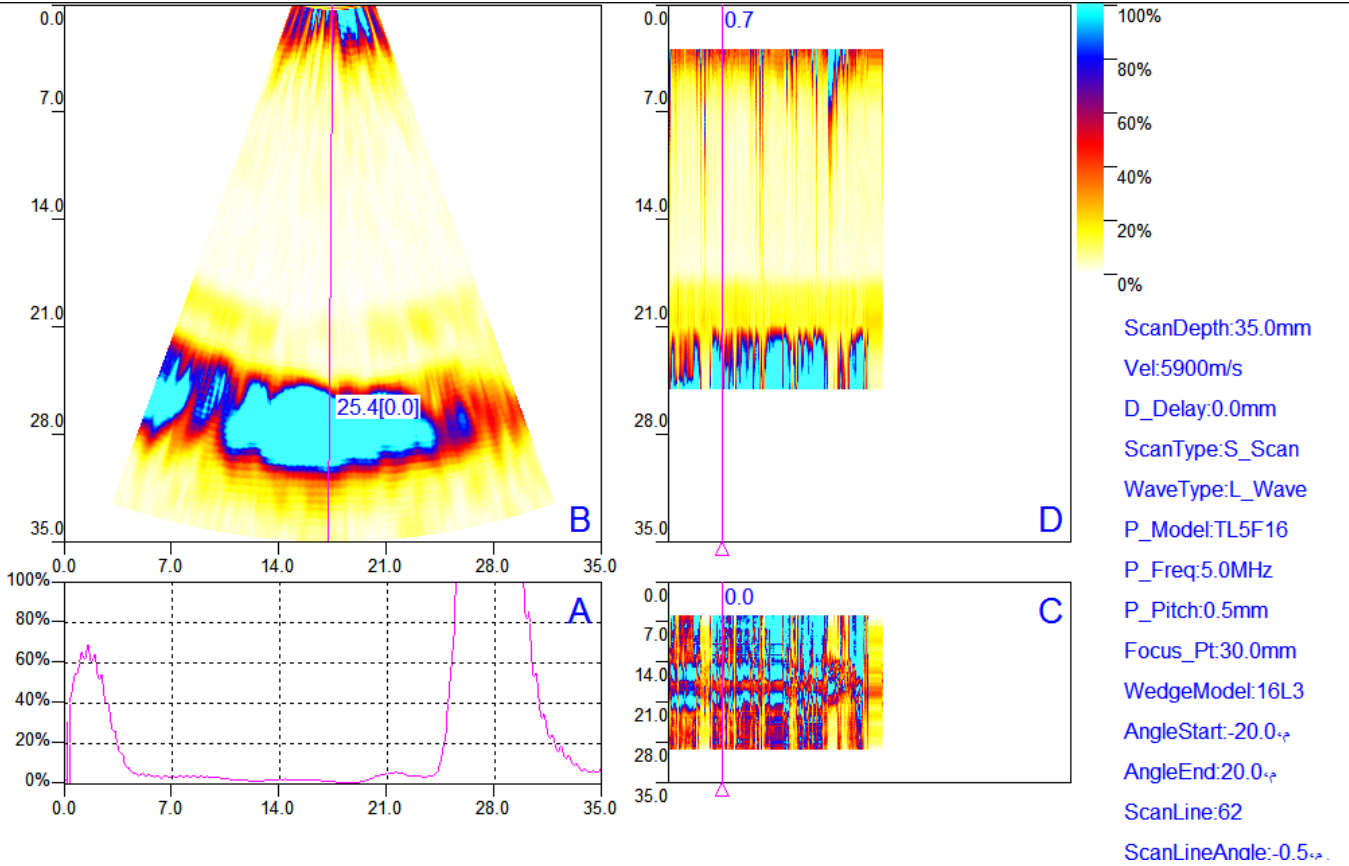


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 45:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



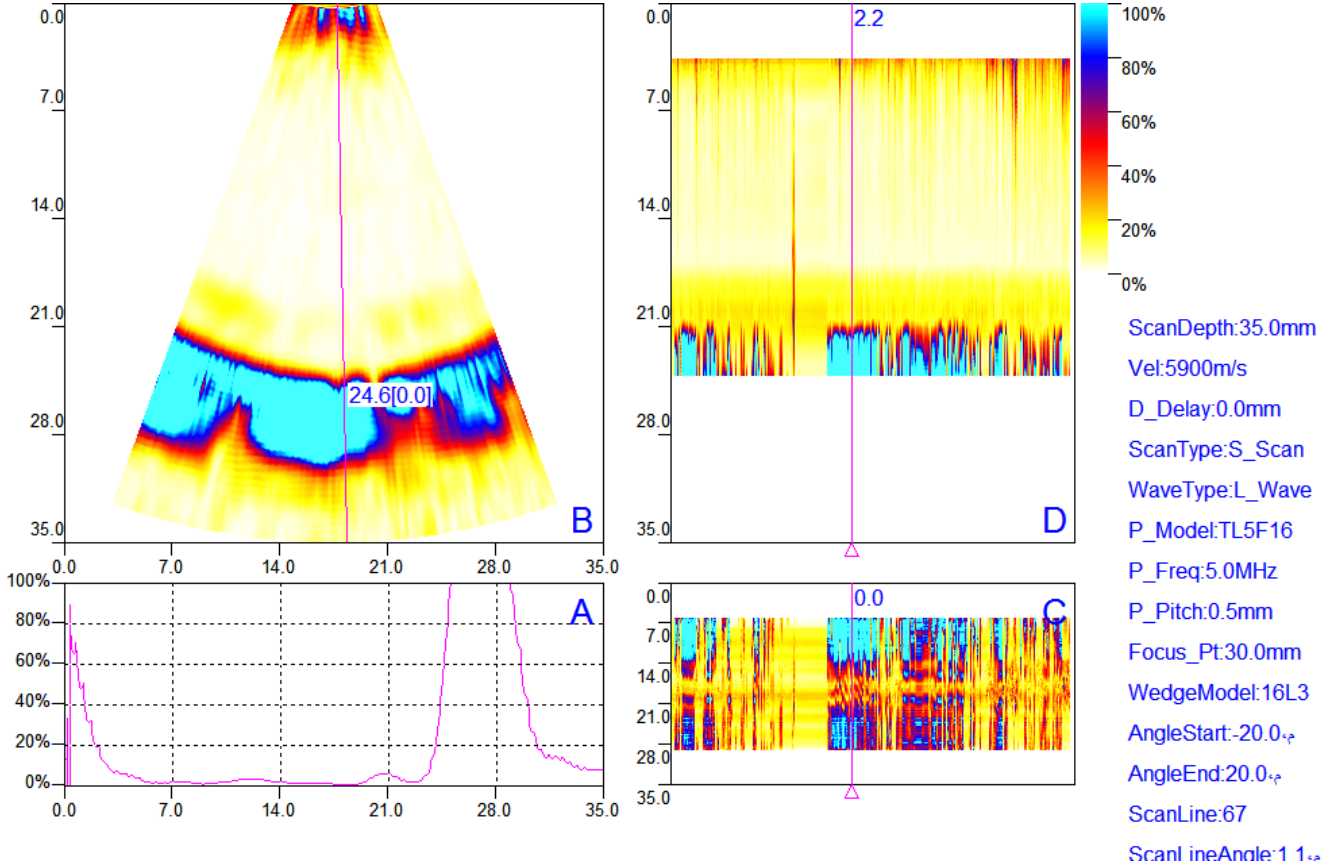


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 46:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



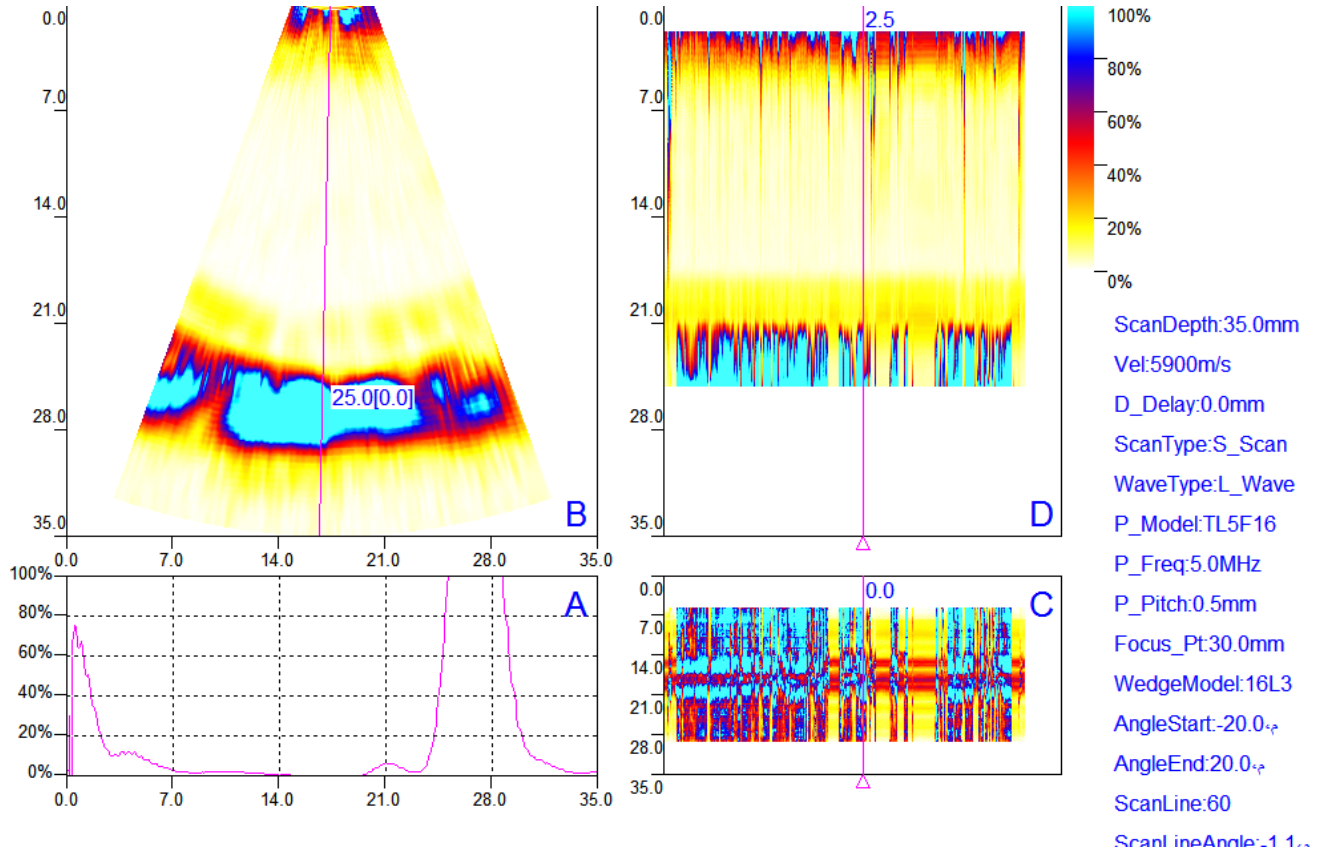


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 47:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

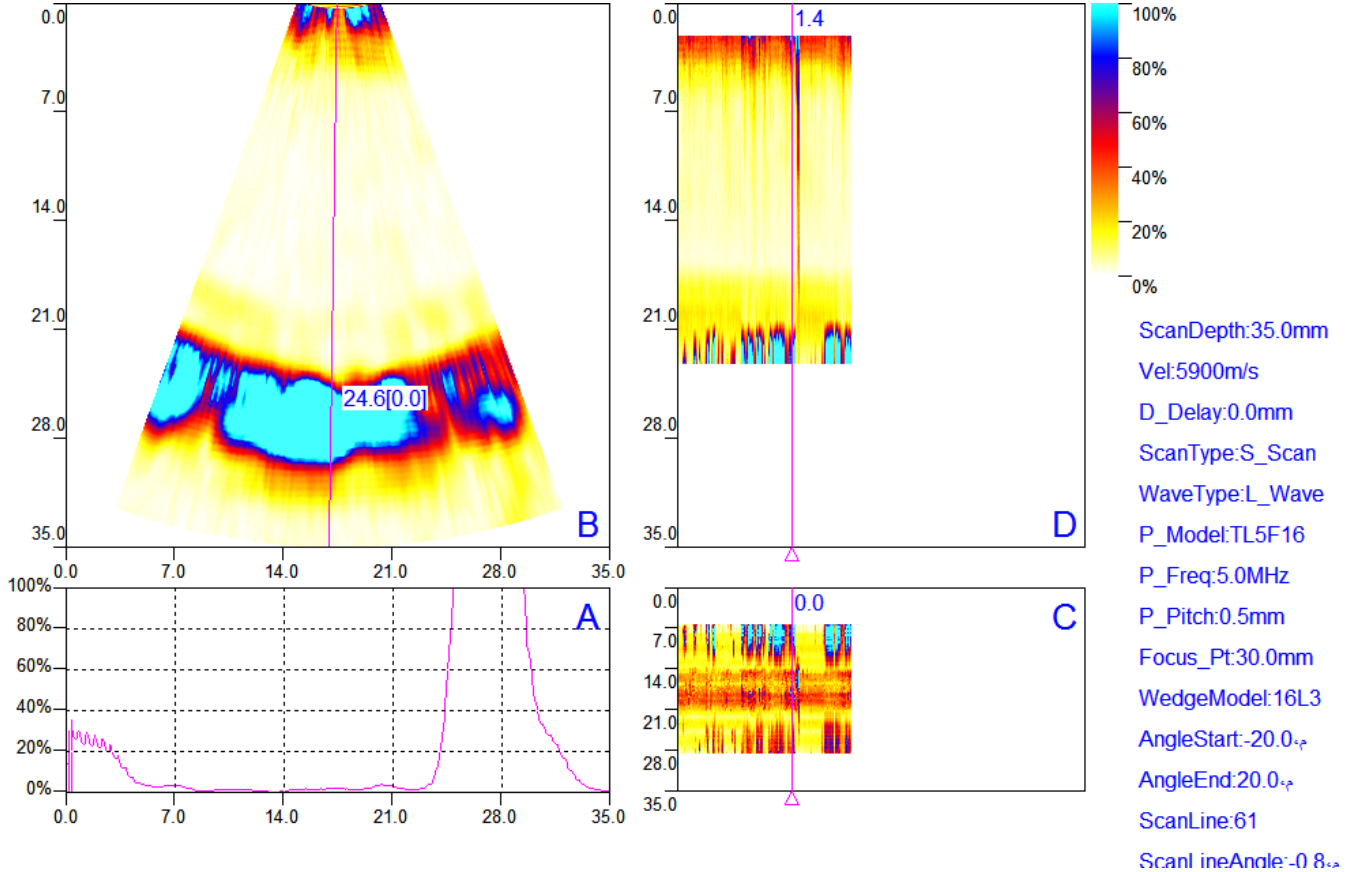


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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ZONE 48:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B)

## Results:

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:

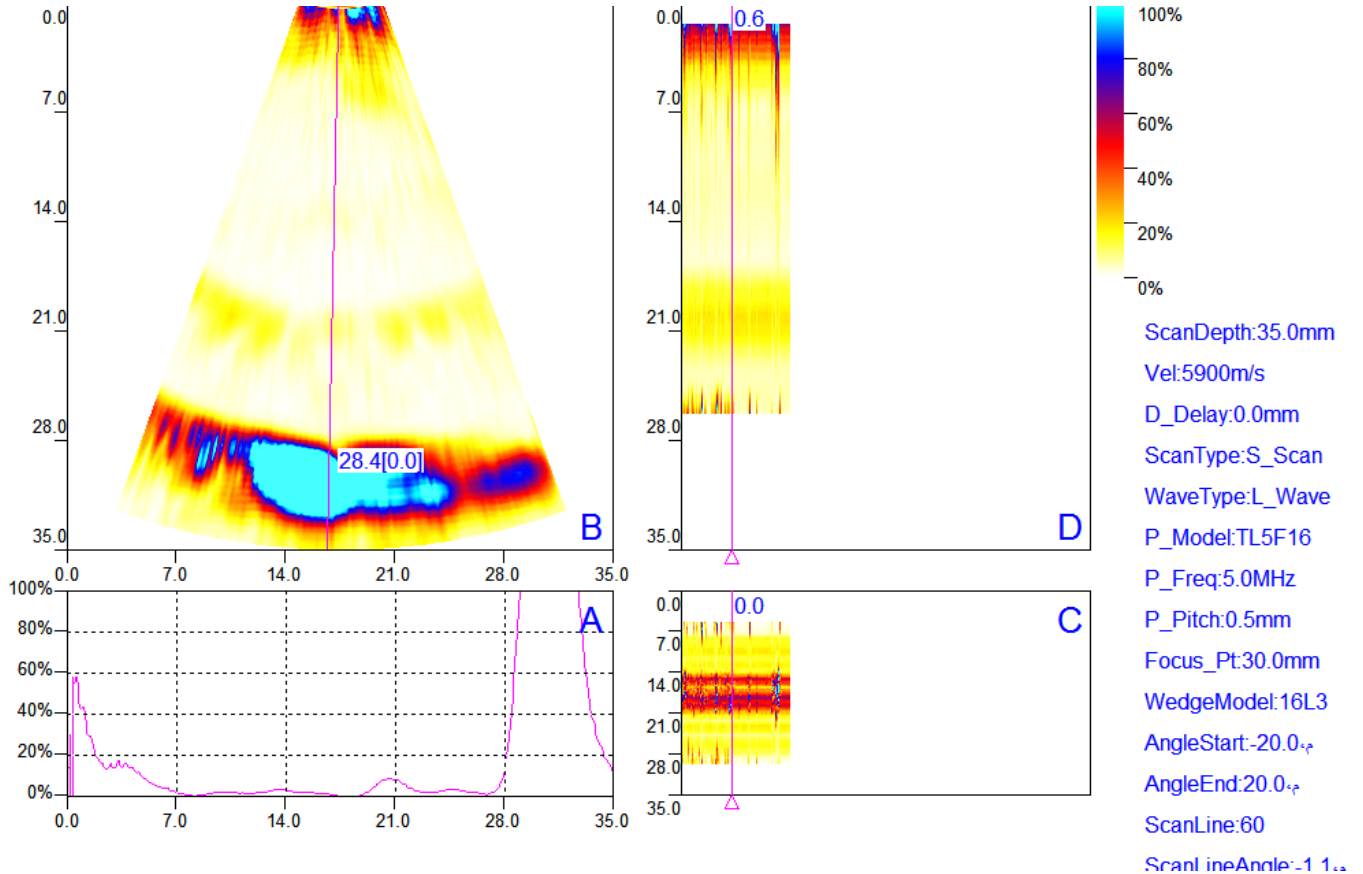


# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
<b>Item Name</b>		<b>Page No.</b>	54 of 55

North Cap:



Abbreviation:

- A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

## Results:

No indication was observed.

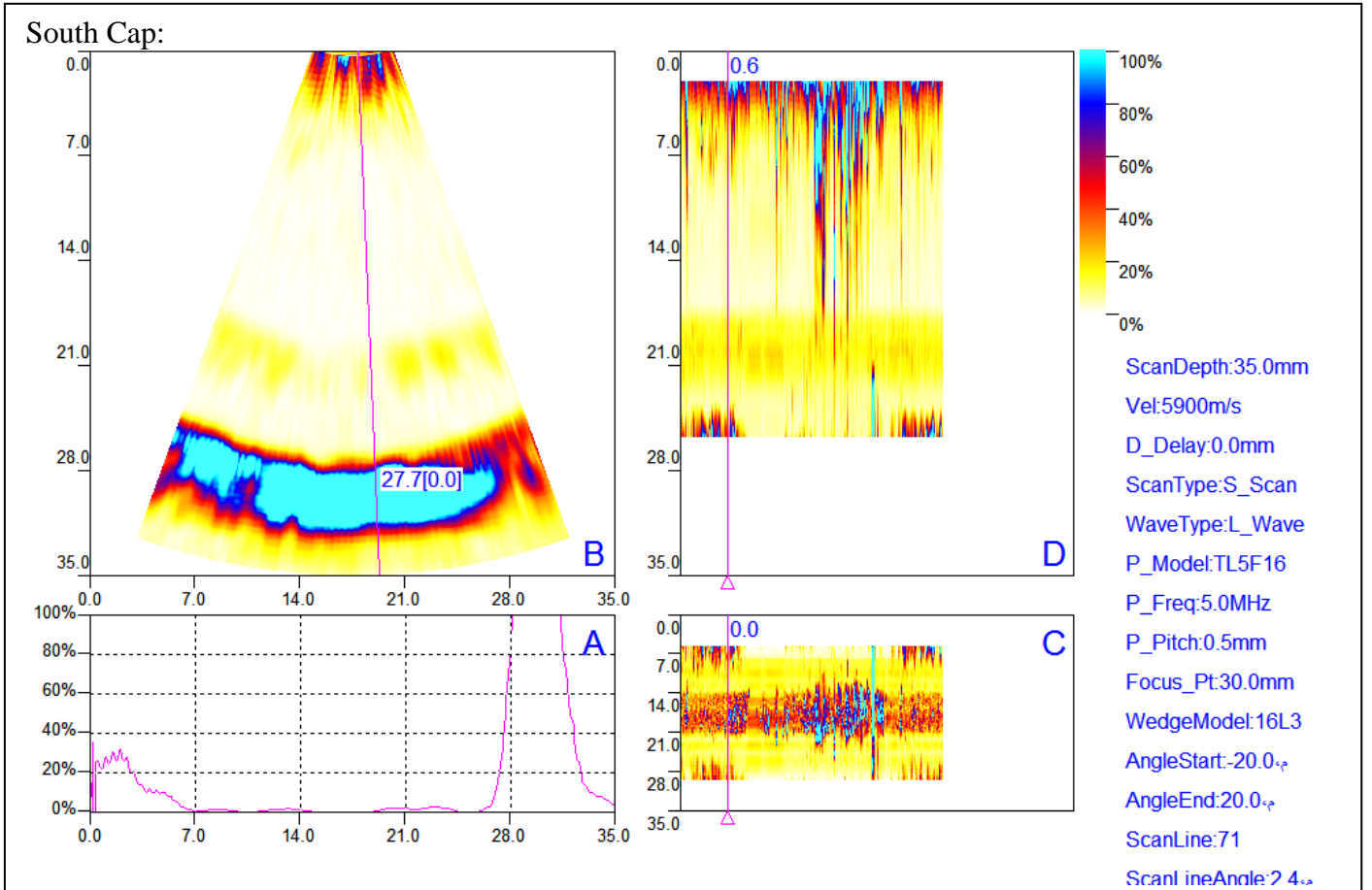
Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date:



# Phased Array Inspection Report

GEN-FR-PA-001.00

<b>Client</b>		<b>Request No.</b>	29-84-30287
<b>Project</b>	NDT Inspection	<b>Report No.</b>	PA-EOGPC-010
<b>Plant/Shop</b>		<b>Exam Date</b>	1391/05/05 to 1391/05/06
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**Abbreviation:**

A: conventional ultrasonic A-scan view      B: Phased Array ultrasonic sectorial scan view (S-scan)  
 C: Phased Array ultrasonic Top scan view (C-scan)      D: Phased Array ultrasonic cross section scan view (B-scan)

**Results:**

No indication was observed.

Inspector(s):	Approved by :	Client :
Level:II Sign:	Level: III Sign:	Date: