HD EHF
VESTURVÖR 36
200 KÓPAVOGUR
B/T: Gunnar Kr Sigmundsson

SKÝRSLA

ÞYKKTARMÆLING OG SEGULSVIÐSSKÖNNUN Á OLÍUGEYMI 1 Á GRUNDARFIRÐI

ULTRASONIC THICKNESS & MAGNETIC FLUX LEAKAGE MEASUREMENT



OKTÓBER 2026

FASTANÚMER: T1008

UTM SKÝRSLA NR: TM-MFL-262829-T1008-GRUNDARFJ-SEPT-26

MÆLINGAR FRAMKVÆMDAR , STAÐUR: GRUNDARFJÖRÐUR

EIGANDANÚMER: 350.01.00

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Framkvæmd mælinga
Þykktarmælingu og segulsviðsskönnun framkvæmdi Andre Sandö hjá HD ehf í Kópavogi. Upplýsingar varðandi aðstæður, notkun geyma o.fl. veitti Gunnar Kr Sigmundsson hjá Olíudreifing ehf. Framkvæmd þykktarmælinga, segulsviðskönnunar og sjónskoðunar á geyminum fóru fram í september mánuði 2026. Geymirinn er standandi stálgeymir og var botn hans mældur ásamt neðsta umfari.

Þykktarmælingar
Varðandi staðsetningu mælistaða og niðurstöður þykktarmælinga á geyminum er hér vísað á meðfylgjandi teikningar (1 stk.). Allar gólfplötur eru mældar á svipaðan hátt þ.e.a.s. miðast er við að hafa mælinguna i miðri plötu, aðeins var tekin einn punktur í plötu. Sökum tæringar var bætt við mælingum.

Segulsviðsmælingar
Gólfskanninn er kvarðaður á 6mm plötu, 8, 10, 14 og 18mm göt eru boruð í plötuna þar til 3mm efnisþykkt er eftir. Hugbúnaðurinn er stilltur þar til götin gefa rautt/appelsínugult merki á skjá. Gólfskannanum er rennt yfir alla fleti sem hann kemst yfir. Svelgir, rör eða ójafn botn geta gert gólfskannanum ókleift til mælingar.

Sjónskoðun
Farið er um allan geyminn með sterkt ljós og því haldið rétt við yfirborðið svo pyttir og misfellur sjáist betur. Kverksuða geymis er skoðuð sérstaklega vel ásamt öðrum suðum innanvert í geymi. Þá eru svelgir einnig skoðaðir mjög vel ásamt þeim stöðum þar sem gólfskanni kemst ekki.

Niðurstöður
Geymir er ekki málaður að innan eða þ.e.a.s. botn og neðsta umfarið. Geymir er í ágætu ásigkomulagi að innanverðu, gólf er tært að innanverðu á köflum en ekkert undir 3 mm. Þeir staðir voru þykktarmældir og mældist efnisþykkt þar 4,1 mm 4,5 mm það voru blettir sem komu upp á skanna. Þessir blettir eru allir að ofanverðu. NB Það eru blettir á skanni sem eru rauðir en þeir blettir sem ekki voru mældir eru suðupunktar sem ekki er búið að slípa burt. Neðsta umfar lítur vel út engar sérstakar tæringar að sjá í kanti að neðan eftir vatn. Það er ekkert sem mælir gegn áframhaldandi notkun að svo stöddu.

Sjá teikningar og ljósmyndir. Eigandi geymis var látin vita. Sjá meðf. niðurstöður mælingar. Öll uppgefin mál á teikningum eru í mm.

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STAÐFESTING ÞYKKTARMÆLINGA

SKÝRSLA NR :	TM-MFL-262829-T1008-GRUNDARFJ-SEPT-26
DAGS. SKÝRSLU:	04/11/2026
DAGS.PRÓF.	29/09/2026
EIGANDI GEYMIS:	Olíudreifing ehf
REKSTRARAÐILI:	Olíudreifing ehf
STAÐUR :	Grundarfjörður
HVAÐ MÆLT:	Geymir 1
FASTANÚMER :	T1008
EIGENDANÚMER :	350.01.00
SMÍÐAÁR :	1976
TÆKNIM.	Gisli A. Gudmundsson, Andre Sandö.
TÆKI:	MFE MK IV Tank Floor Scanner. Serial No.MK4-0016-A-TFS. Olympus 45MG. 5 Mhz Serial nr: 130177407, skoðað og vottað þann 07.09.2023. Stilliklossar (Calibration blocks):3mm, 6mm 9mm 12mm og 18mm. Meðf. er vottorð mælibúnaðar (Statement of Calibration).

STAÐLAR TIL VIÐMIÐUNAR:
EN ISO 9712-2022-,, Qualification and certification of NDT personnel´´
ISO 16810-2012- Ultrasonic testing — General principles
ISO 16811-2012 Ultrasonic testing — Sensitivity and range setting
ISO 16826-2012 Ultrasonic testing — Examination for discontinuities perpendicular to the surface
ISO 12668-1-2010 Characterization and verification of ultrasonic examination equipment - part 1: instruments
ISO 16809:2017 Ultrasonic thickness measurement
ISO 17577:2016 Steel.Ultrasonic testing of steel flat products of thickness equal to or greater than 6 mm
ISO 16809 Ultrasonic thickness measurement

FRAMKV. MÆLINGA: Andre Sandö

SKÍRTEINI (CERTIFICATE): AS=Ultrasonic Inspection – Level II

GAG=PCN 307004. E021S6242877
01/04/2022 - 31/03/2027
AS =Ultrasonic Inspection – Level II 347274.
E022S62428731
01/12/2022 - 30/11/2027

Hér staðfestist að framkvæmdar hafa verið þykktarmælingar á ofangreindum geymi, í eigu og rekstri Olíudreifing. ehf, að ósk rekstraraðila.
Niðurstöður mælinga eru skráðar á meðfylgjandi blaðsíður (teikningar) og eru öll mál í mm. Alls eru þar skráðar 102 niðurstöður.
Þykktarmælir og nemar tengdir búnaðinum voru sannreyndir og prófaðir með mælingum á stilliklossum fyrir, á meðan og að loknum mælingum.

Skoðað/dags./af: 14/10/2026

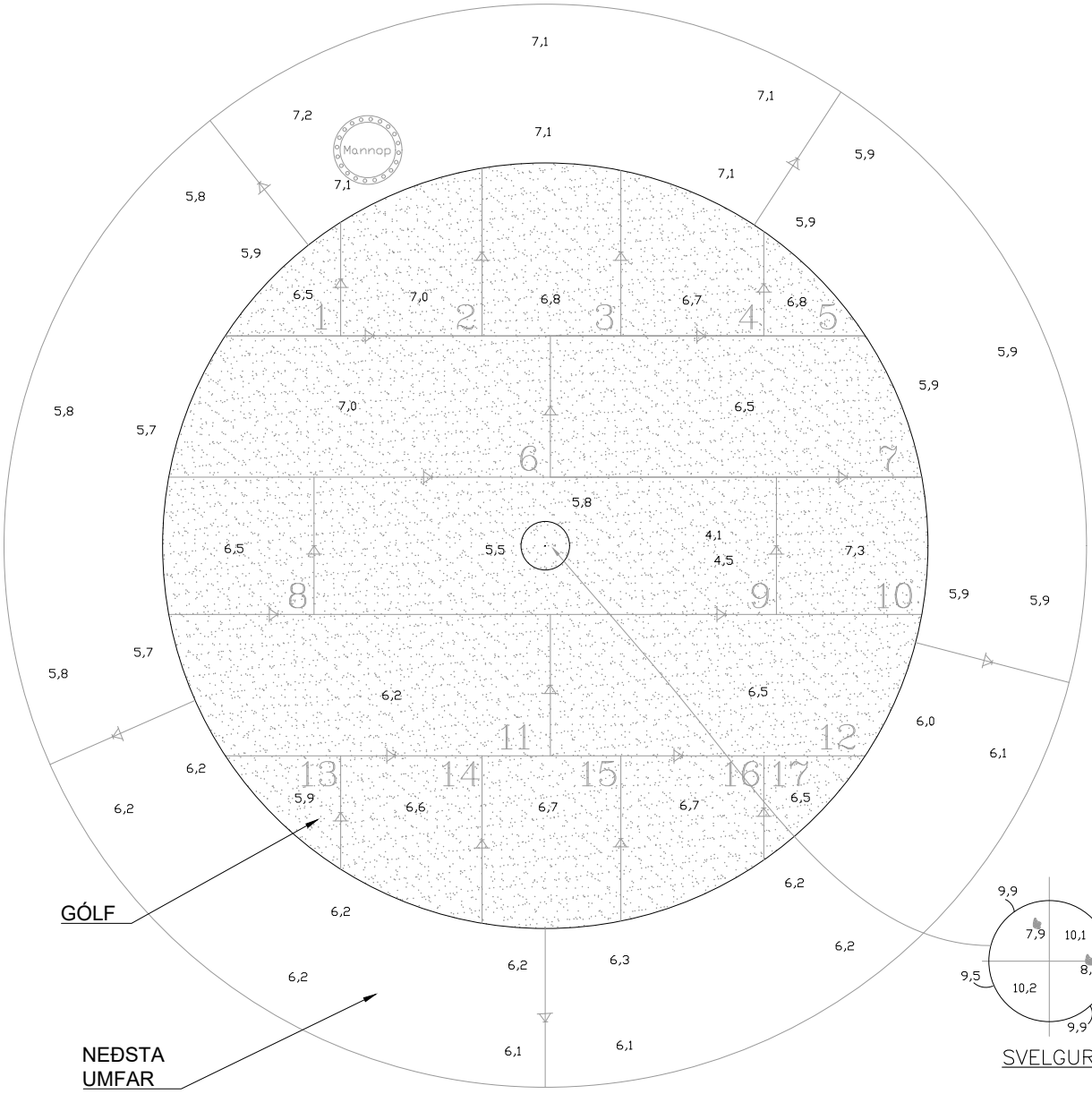


Samþykkt/dags./af: 04/11/2026



ÞYKKTAR & SEGULSVIÐSMÆLING

GEYMIR - NEÐSTA UMFAR & GÓLF



SVELGUR

UPPRUNALEG ÞYKKT Á GÓLFI: C.A. 6,0mm
MINNSTA ÞYKKT Á GÓLFI: 4,1 MM
MINNSTA ÞYKKT Í NEÐSTU PLÖTURÖÐ: 5,8 MM
MINNSTA ÞYKKT Í SVELG: 7,9 MM

=SVÆÐI TÆRINGAR.

HD

ÞYKKTARMÆLINGAR (UTM)
REKSTRARAÐILI: ÓLÍUDREIFING EHF
TILVÍSUN ÓKKAR.: 262829
MÆLINGAR FRAMKV. 29-09-2026
STAÐUR: GRUNDARFJÖRÐUR
HLUTUR MÆLDUR: STANDANDII ÓLÍUGEYMIR
FASTANÚMER: T1008

TEIKNING ER EKKI Í MÆLIKVARÐA

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Myndir frá geymi T1008






Myndirnar hér að ofan eru myndir af suðublettum í gólfi sem koma fram á skanna.




Myndirnar hér að ofan sýna talsvert magn af tæringarblettum eru um allan geymi



Myndin hér að ofan sýnir fætur undir röri eru ekki soðnar ofaní gólfið.






Svelgur, tveir tæringarblettir eru sýnilegir í botninum.
Blettirnir voru mældir og eru þeir mældir með 7,9 og 8,6 mm efnisþykkt.



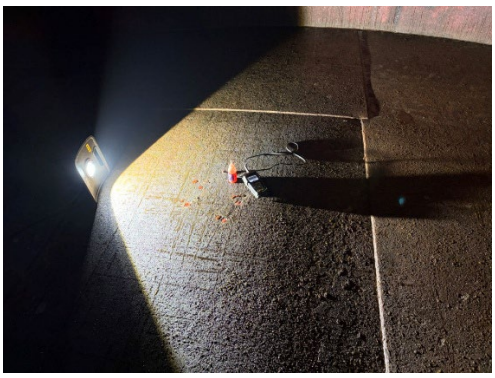






Kverkar í geymi eru góðar en gleymst hefur að hreinsa gjall af suðu sem hefur verið soðin í geyminn og situr sem fastast.








Dæmi um mælingar á þeim blettum sem mælirinn benti á að skoða betur.



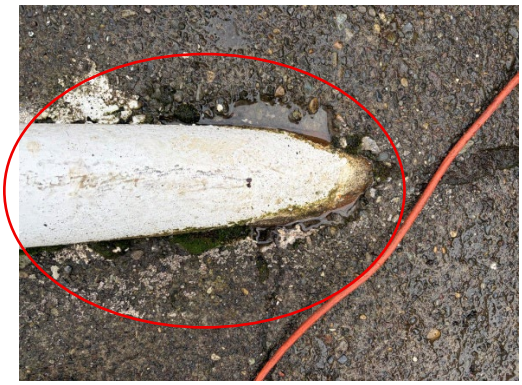
Myndir af veggjum og lofti í geyminum.

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Myndir af geyminum að utan.






Lögn sem liggur frá geymi og ofaní steypuna

ENTERPRISES INCORPORATED

[[[Service Company Logo Here]]]

MFE Scan Survey Report

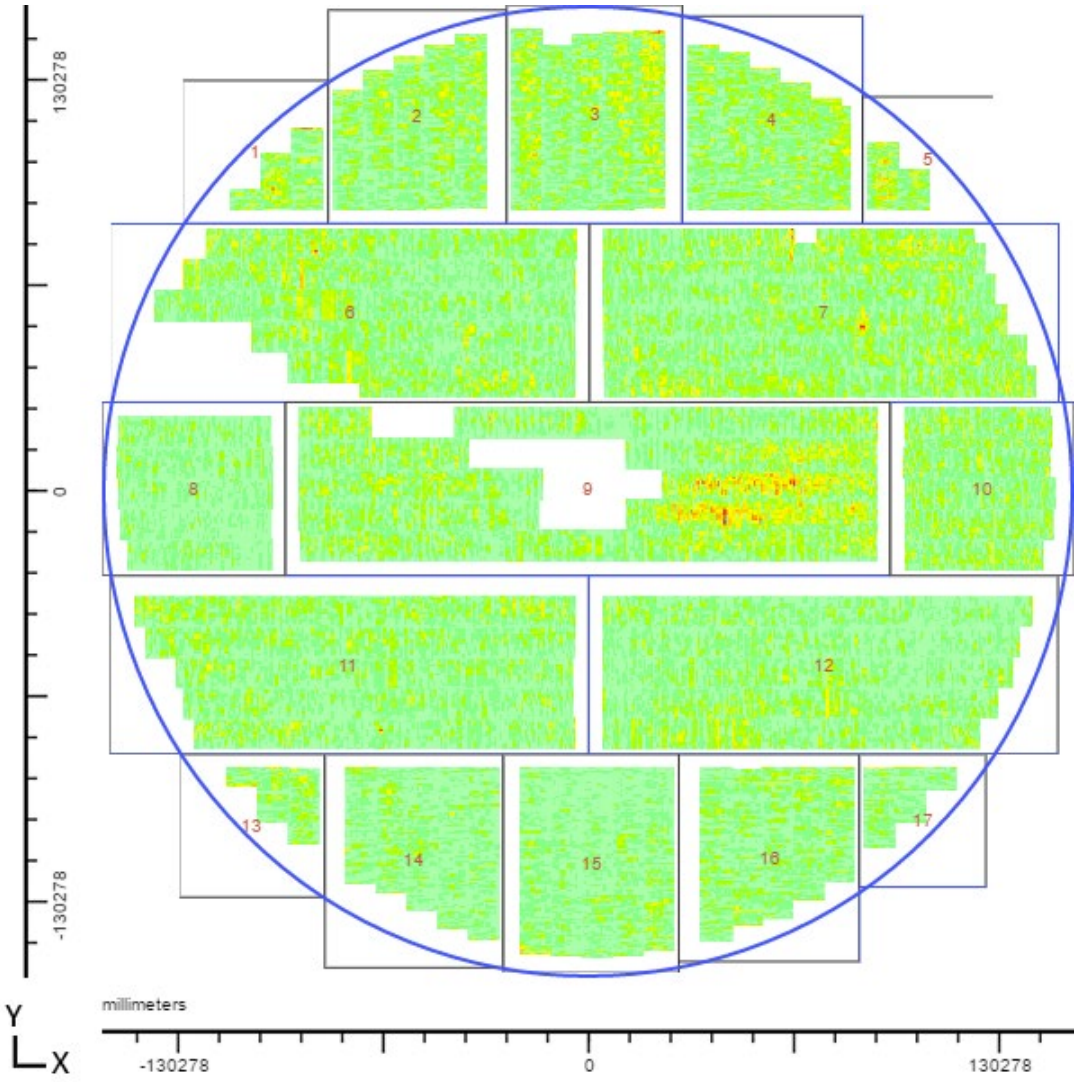
SKÝRSLA NR: MFL-262829-T1008-1-GRUNDAFJ-SEPT-26

Umsjónaraðili: Olíudreifing
Unnið af: Gísli Arnar Guðmundsson
Fyrirtæki: HD ehf

Dags.skoðanna: 29 September 2026
Dags.skýrslu: 4 Nóvember 2026
Umbeðið af: Gunnar Kr Sigmundsson



Tank Overview



Track Coverage Overview

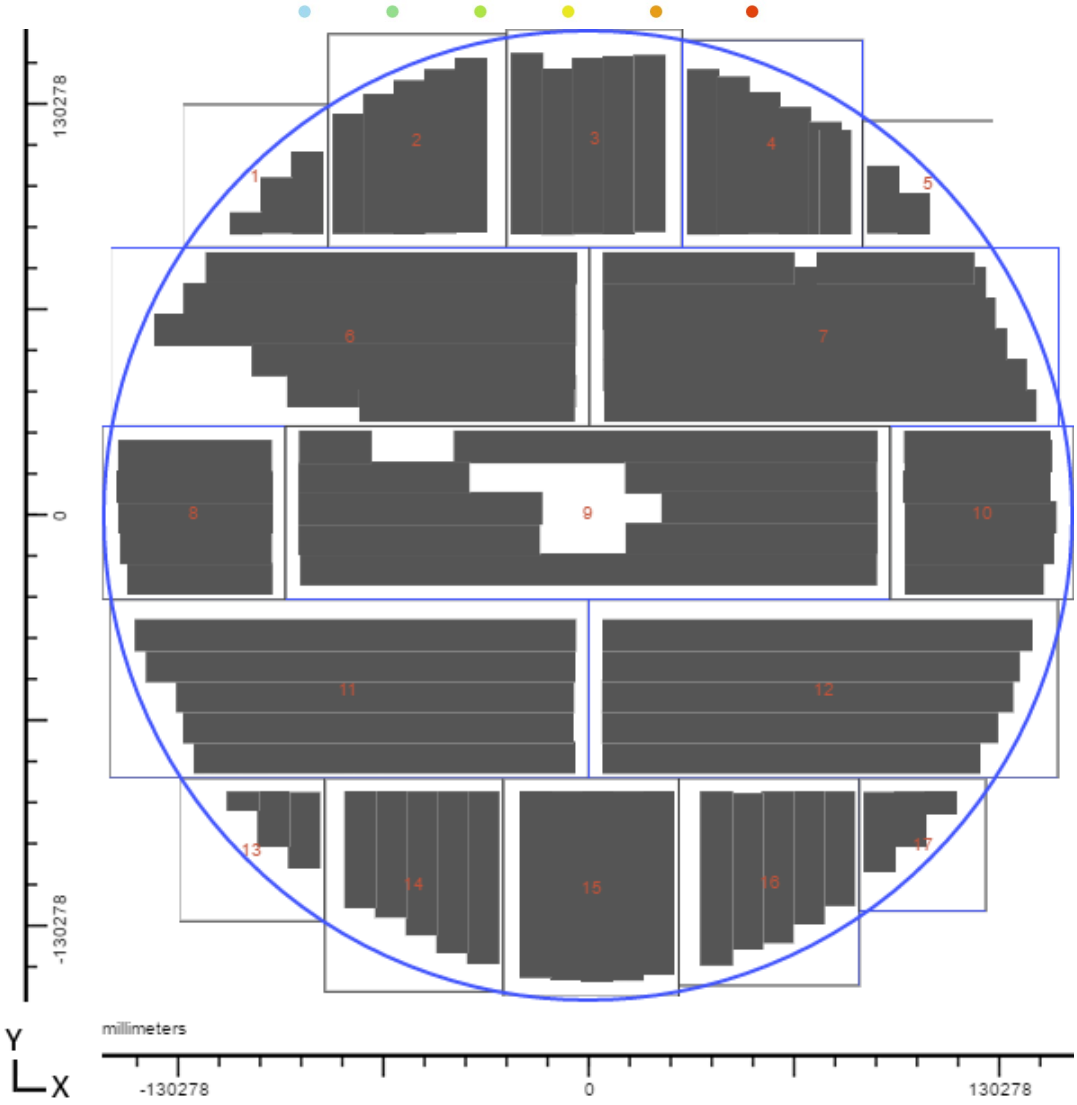
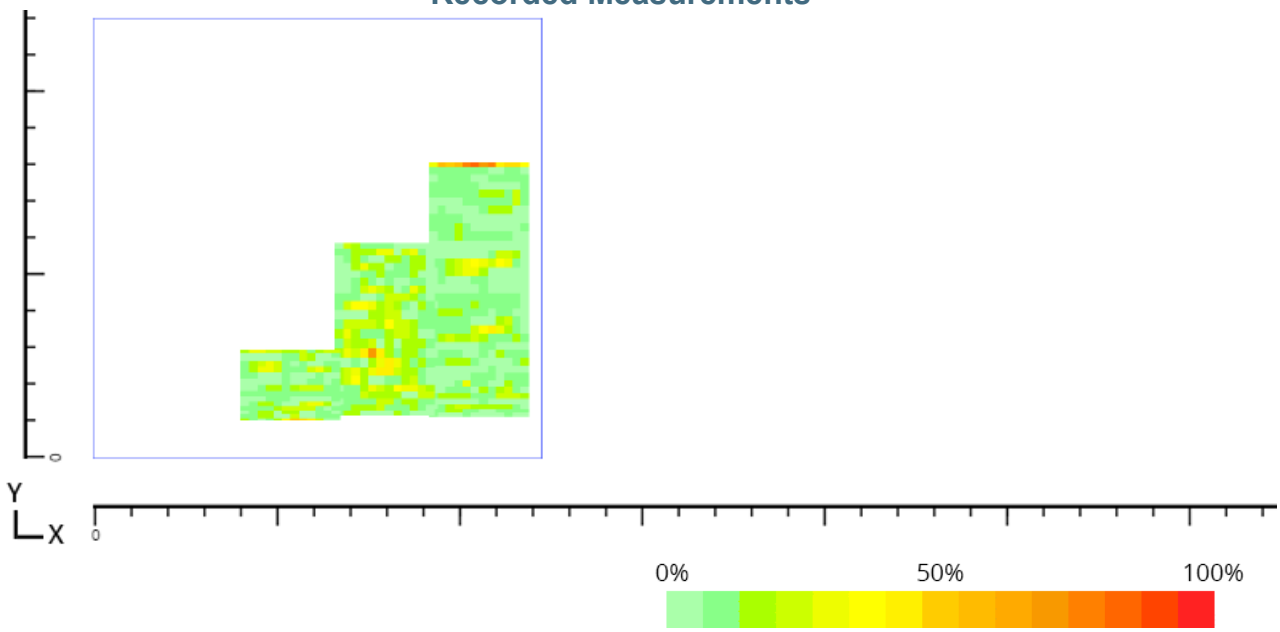


Plate Number 1

Max Signal: 93.3% **Length (X):** 143cm **Width (Y):** 140cm **Thickness:** 6,35 mm

Selected Signal Range: 0 – 350 mV

Recorded Measurements



Scanned Track Outlines

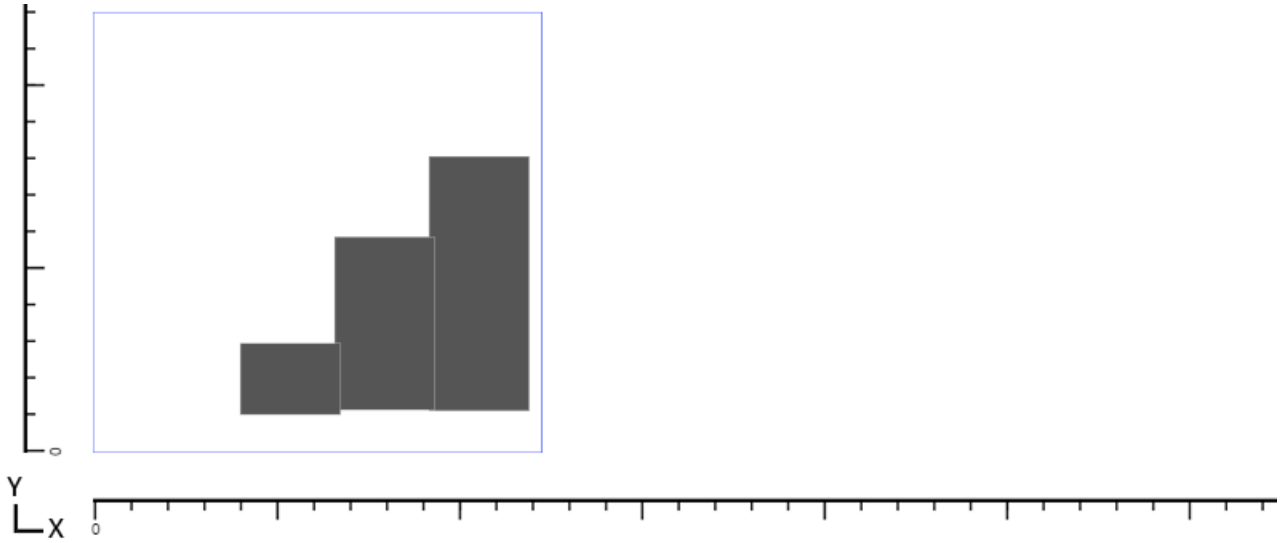


Plate Number 2

Max Signal: 66.7%

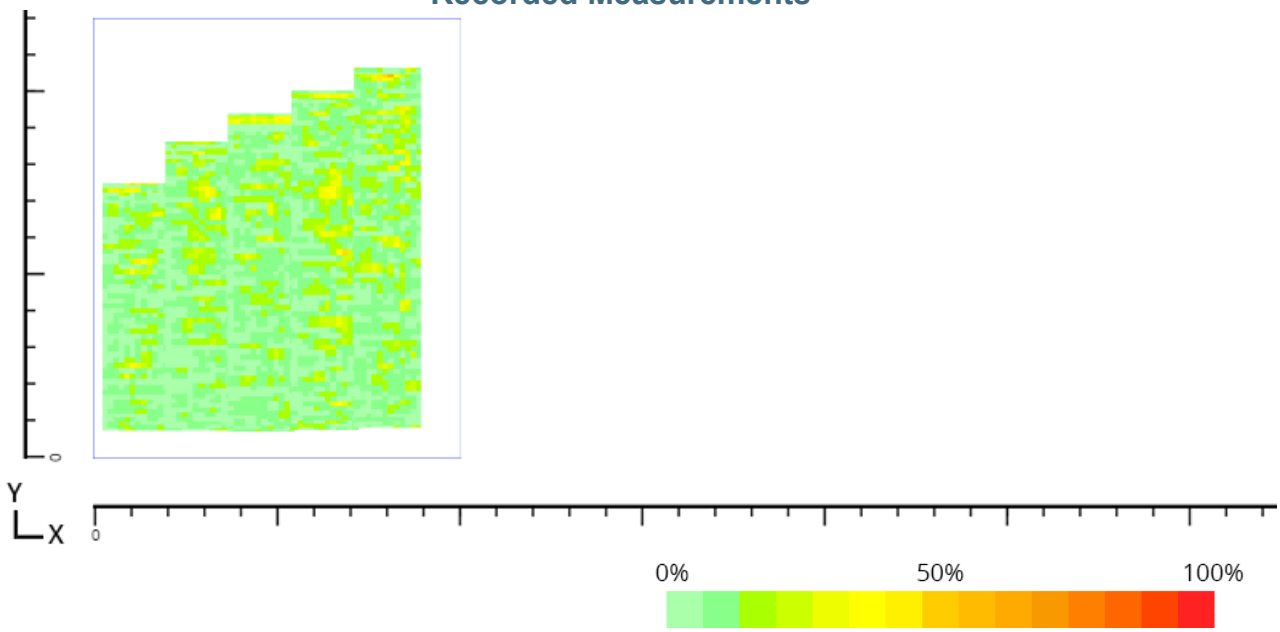
Length (X): 175.01cm

Width (Y): 208.99cm

Thickness: 6,35 mm

Selected Signal Range: 0 – 350 mV

Recorded Measurements



Scanned Track Outlines

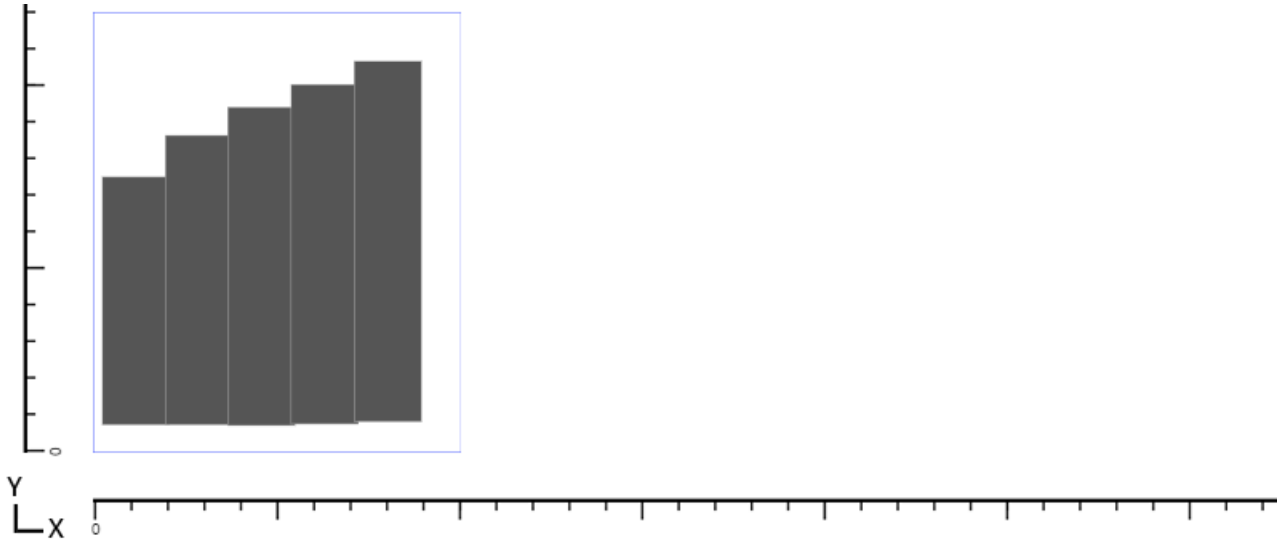


Plate Number 3

Max Signal: 100%

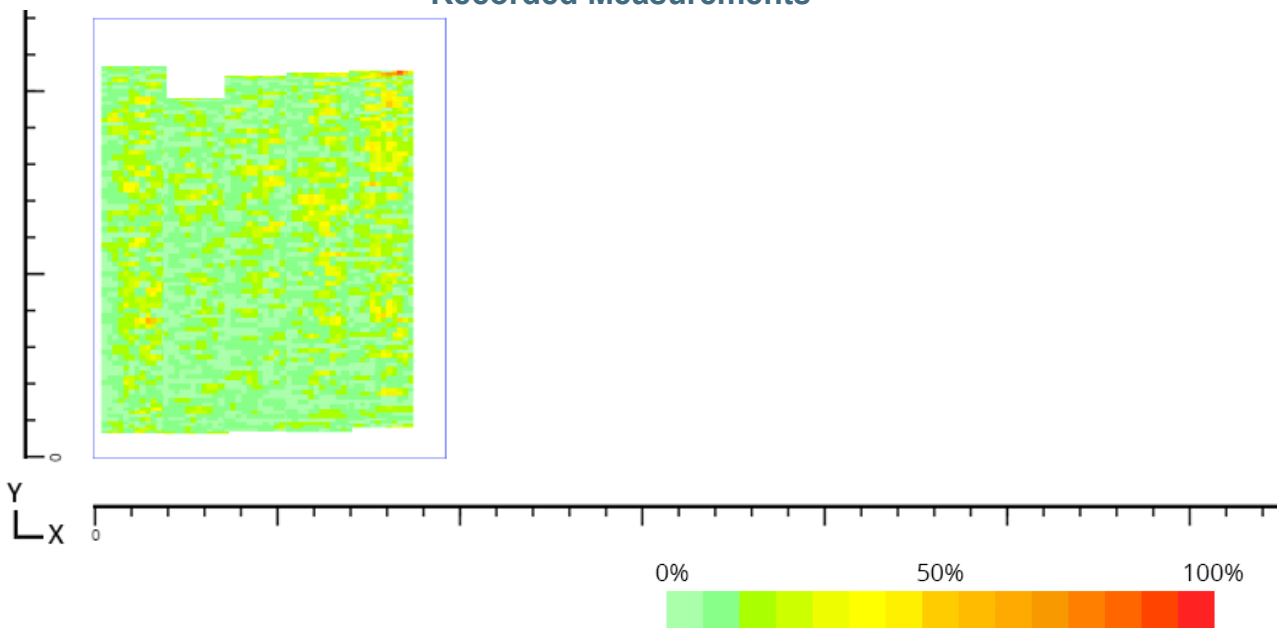
Length (X): 172.01cm

Width (Y): 213.99cm

Thickness: 6,35 mm

Selected Signal Range: 0 – 350 mV

Recorded Measurements



Scanned Track Outlines

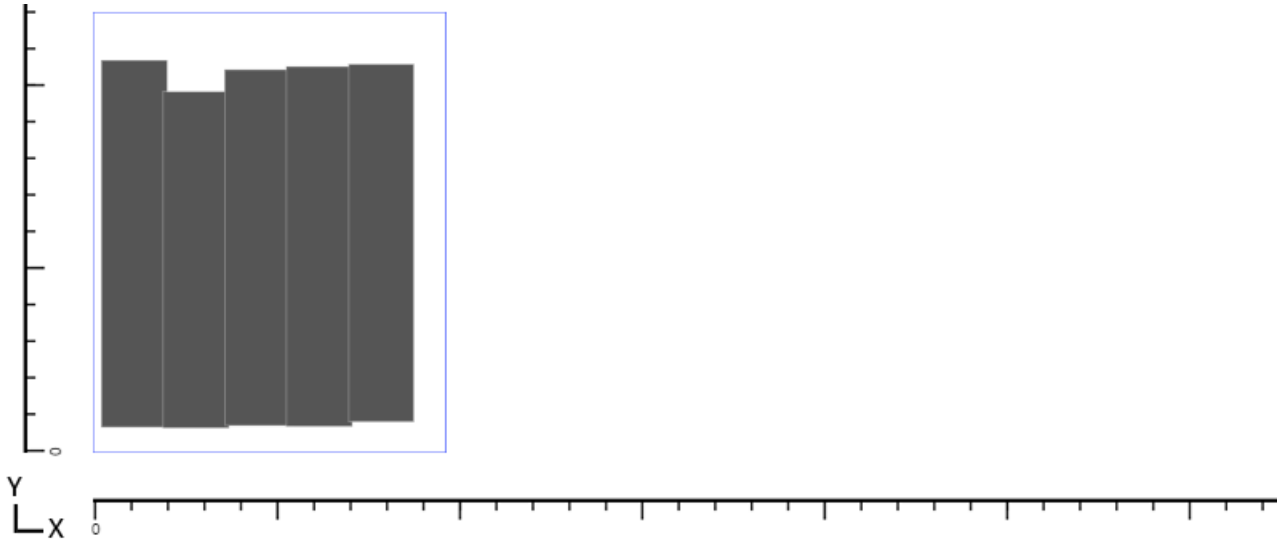


Plate Number 4

Max Signal: 66.7%

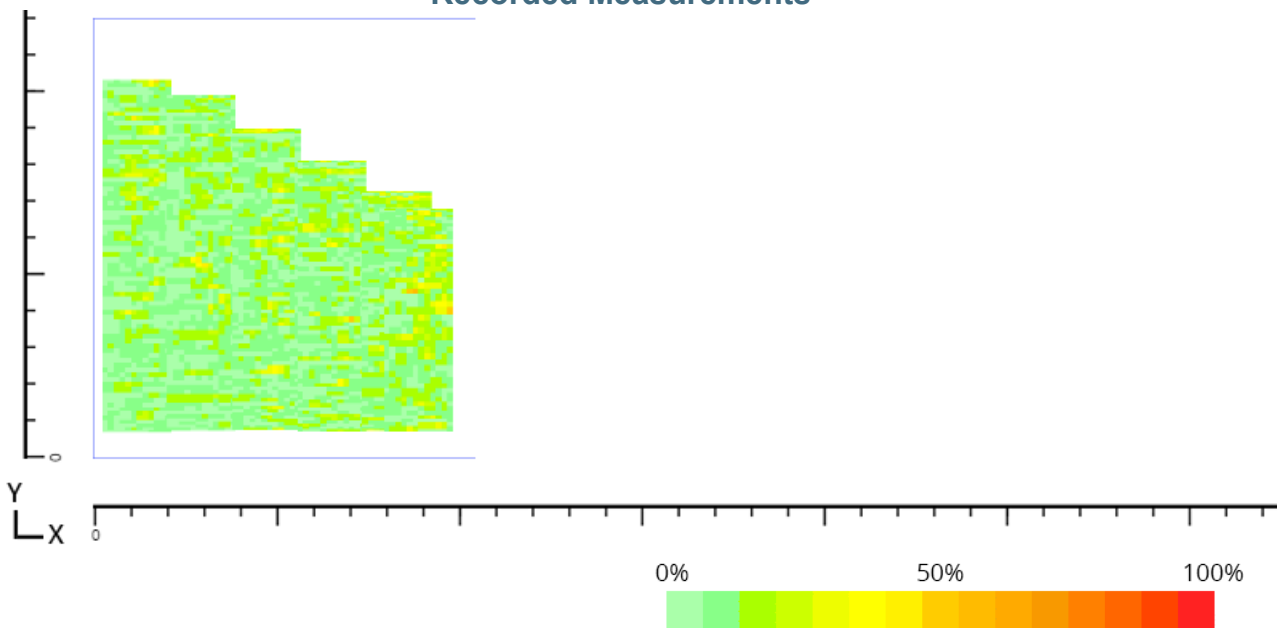
Length (X): 177.01cm

Width (Y): 203cm

Thickness: 6,35 mm

Selected Signal Range: 0 – 350 mV

Recorded Measurements



Scanned Track Outlines

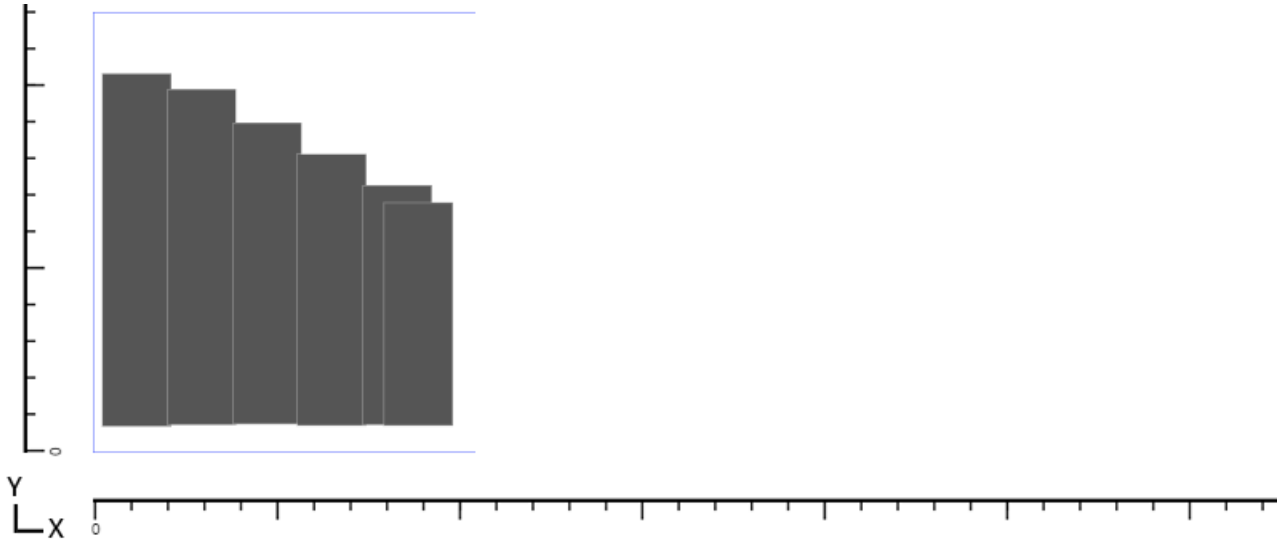
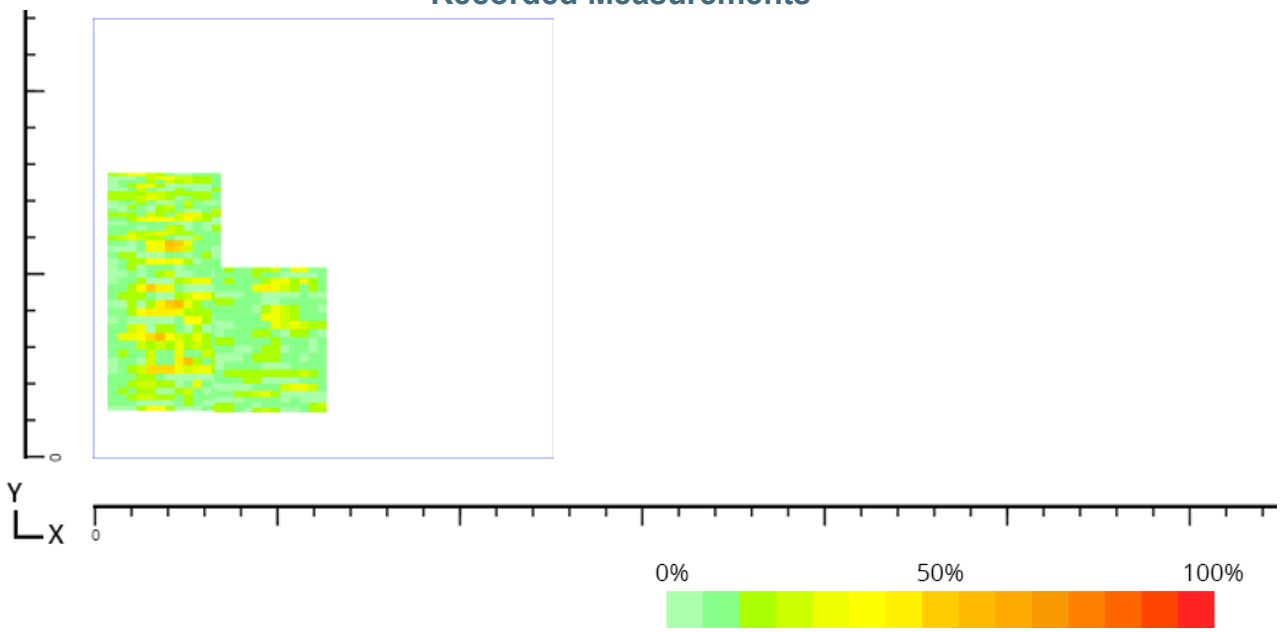


Plate Number 5

Max Signal: 66.7% **Length (X):** 130cm **Width (Y):** 124cm **Thickness:** 6,35 mm

Selected Signal Range: 0 – 350 mV

Recorded Measurements



Scanned Track Outlines

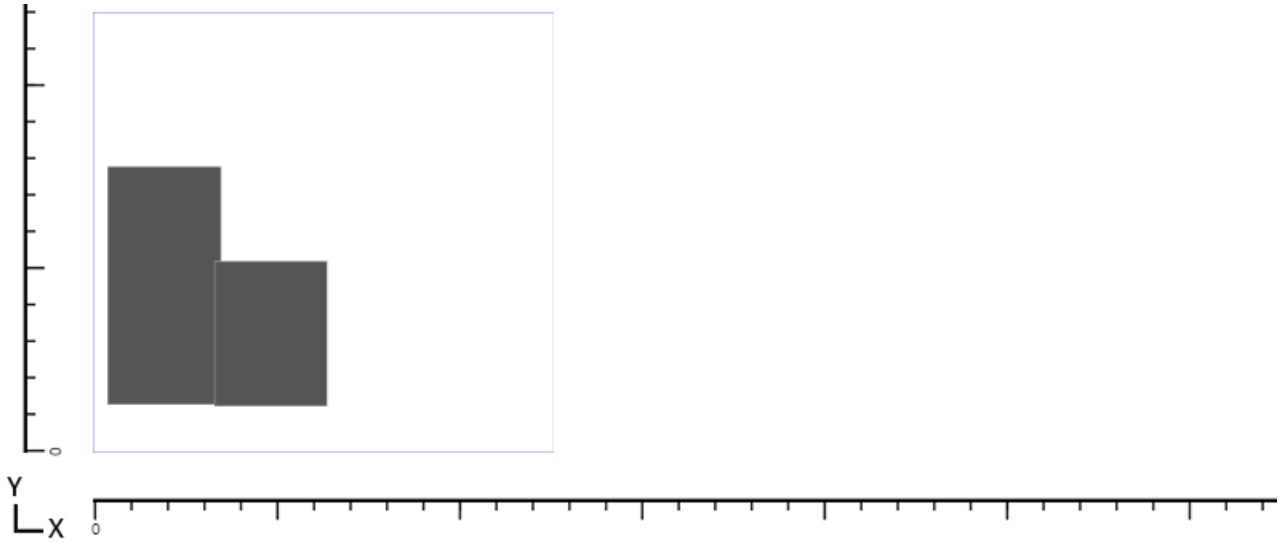
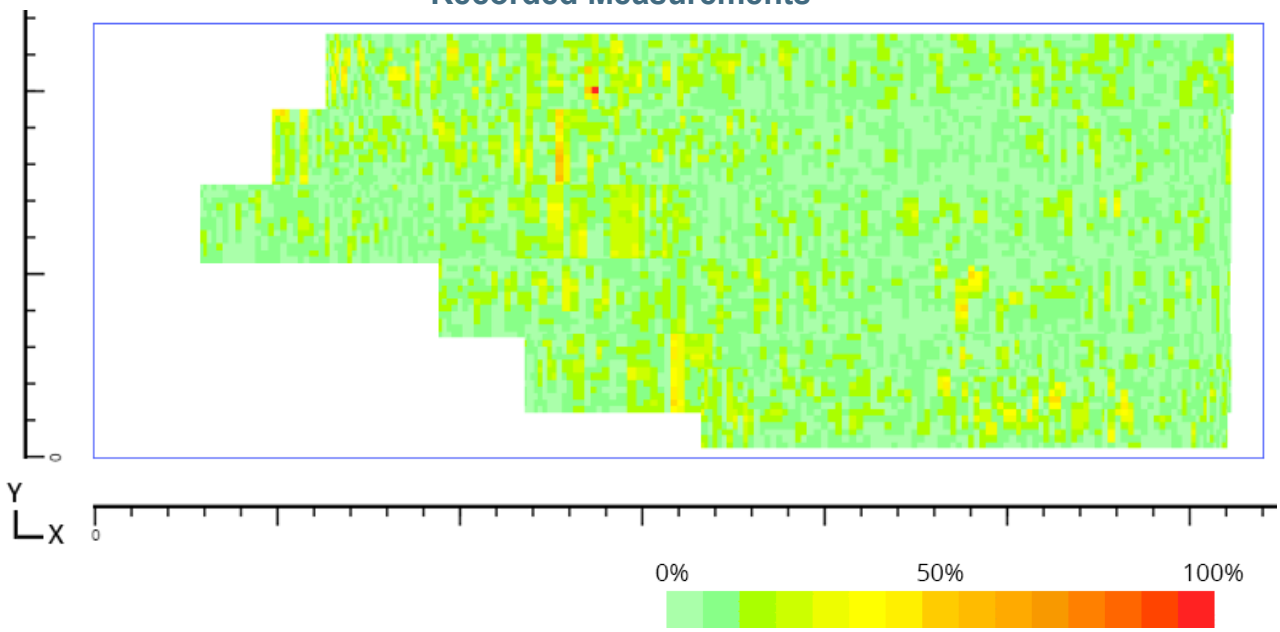


Plate Number 6

Max Signal: 100% **Length (X):** 470cm **Width (Y):** 175.01cm **Thickness:** 6,35 mm

Selected Signal Range: 0 – 350 mV

Recorded Measurements



Scanned Track Outlines

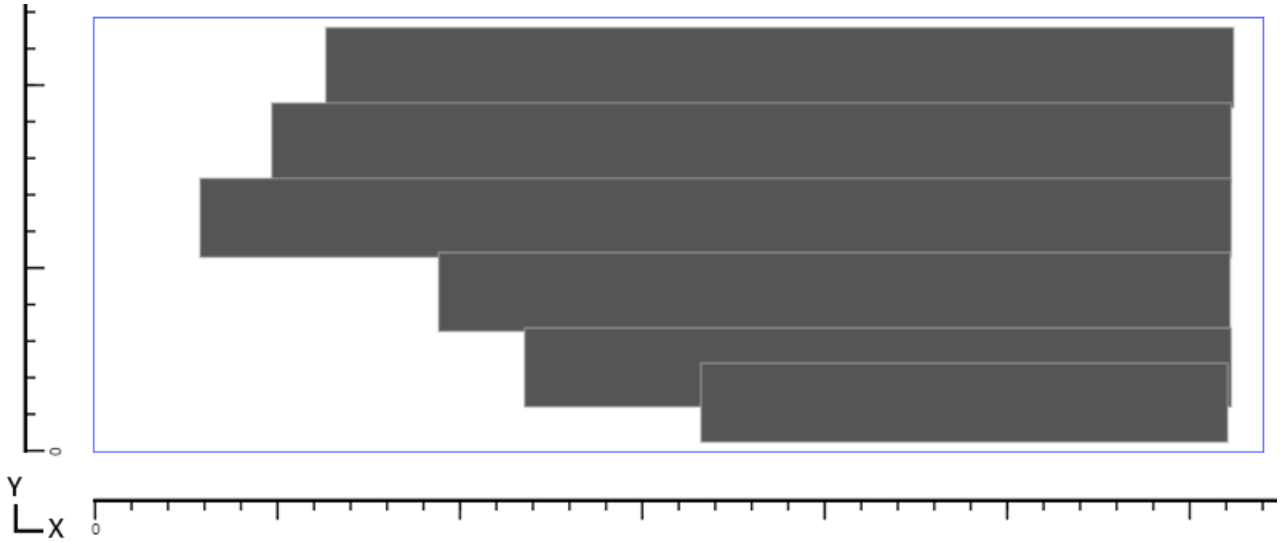


Plate Number 7

Max Signal: 100%

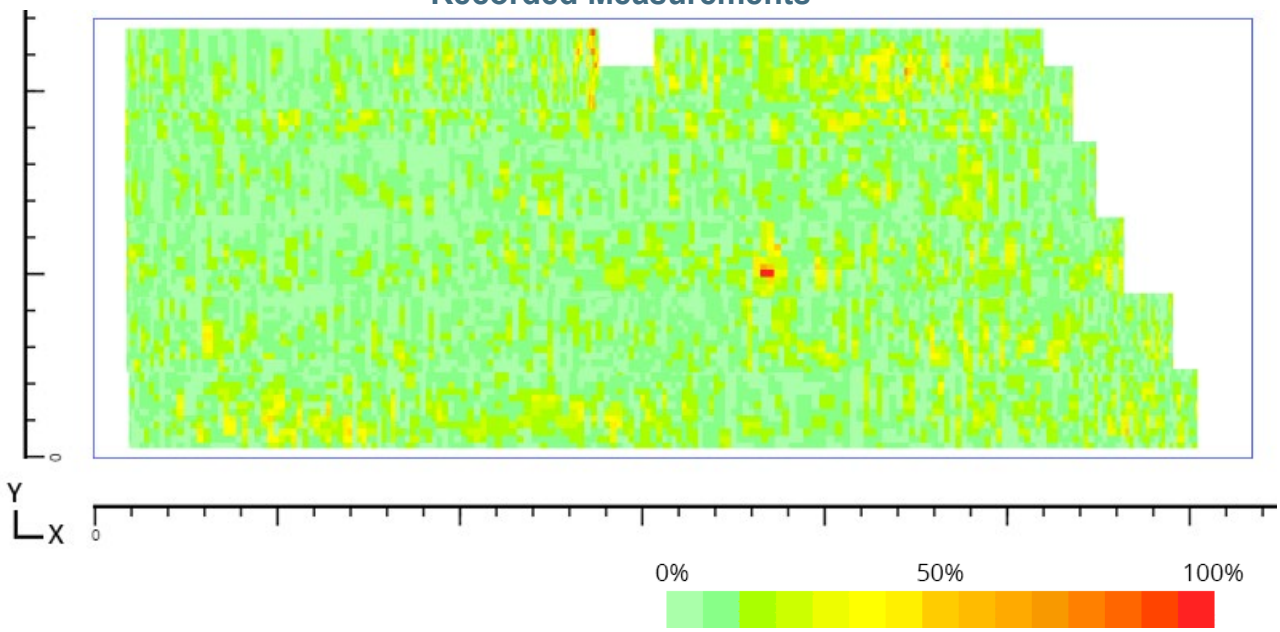
Length (X): 459.99cm

Width (Y): 175.01cm

Thickness: 6,35 mm

Selected Signal Range: 0 – 350 mV

Recorded Measurements



Scanned Track Outlines

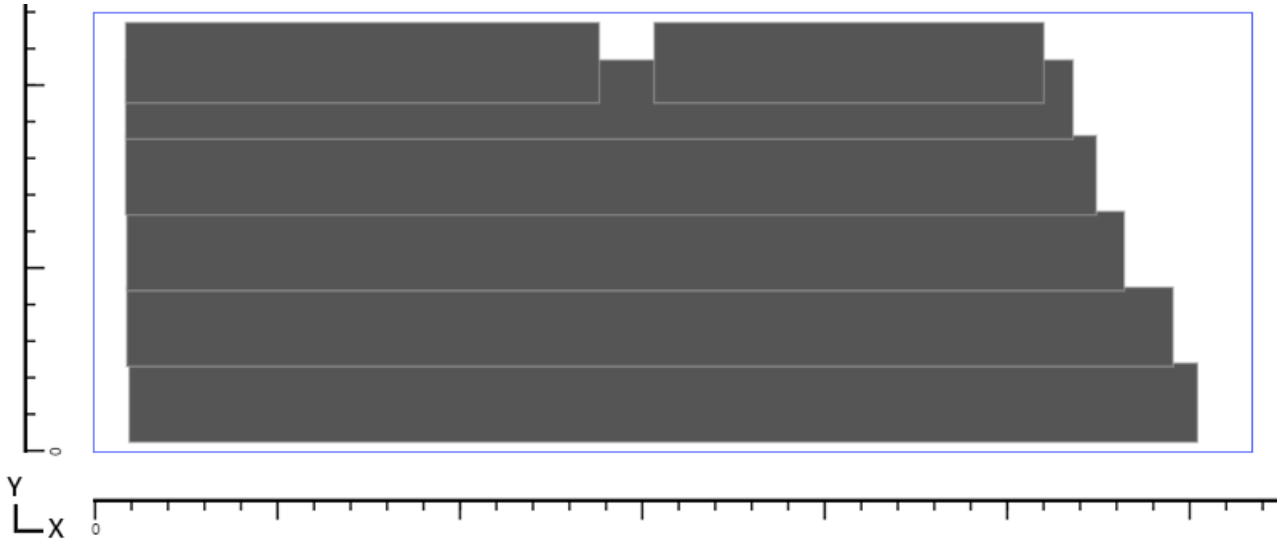


Plate Number 8

Max Signal: 46.7%

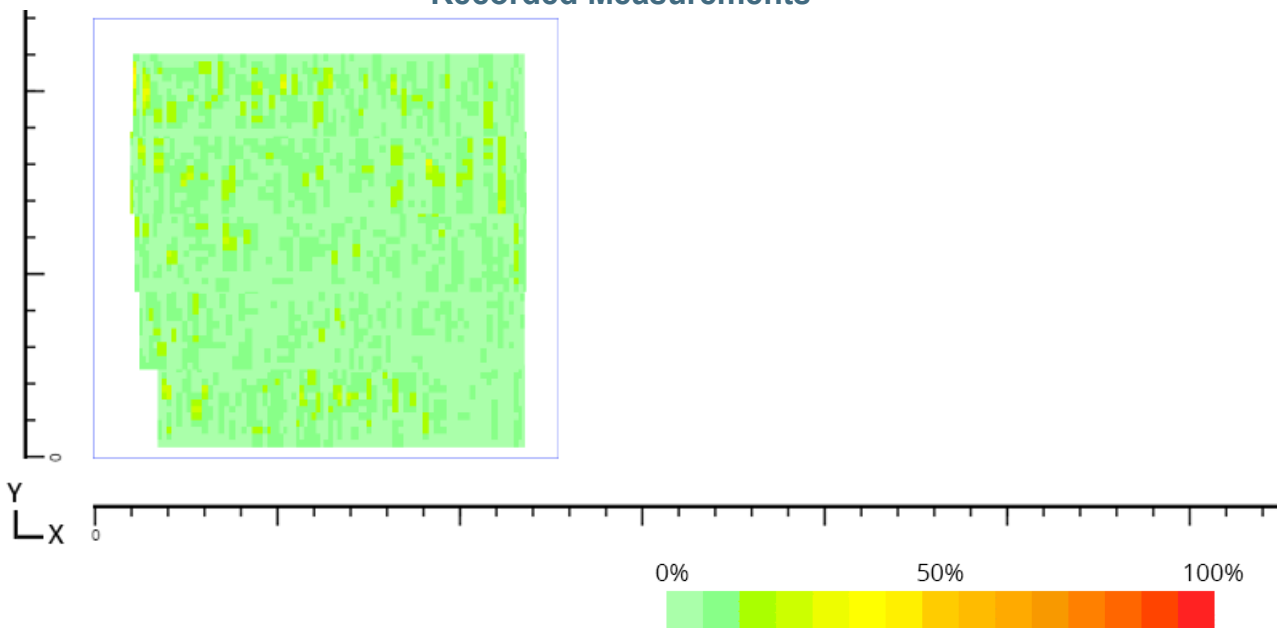
Length (X): 180.01cm

Width (Y): 170cm

Thickness: 6,35 mm

Selected Signal Range: 3 – 450 mV

Recorded Measurements



Scanned Track Outlines

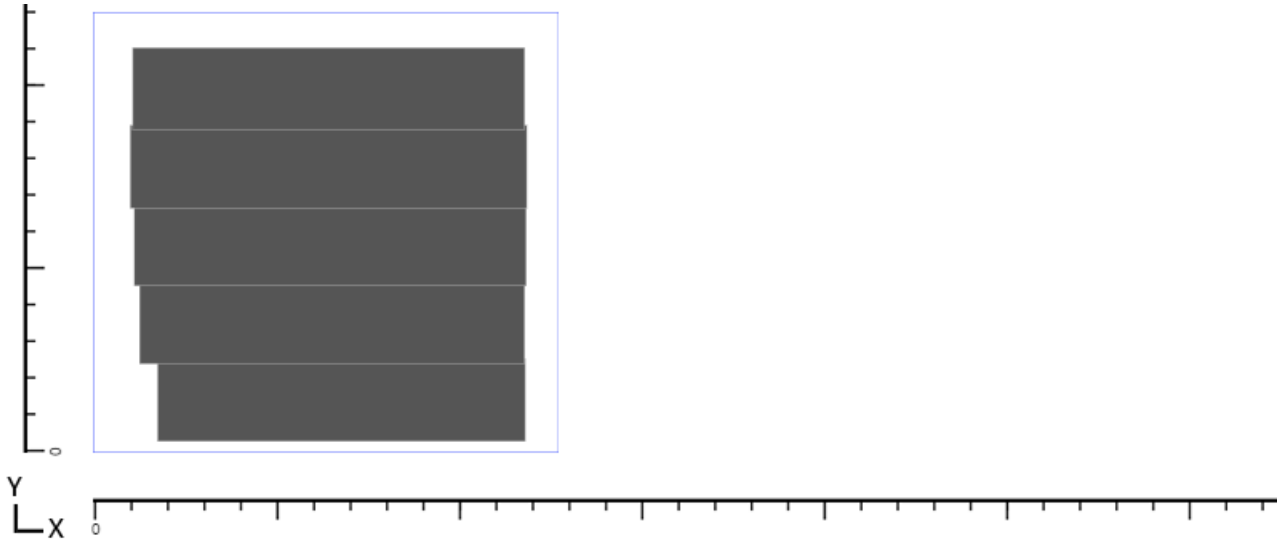


Plate Number 9

Max Signal: 100%

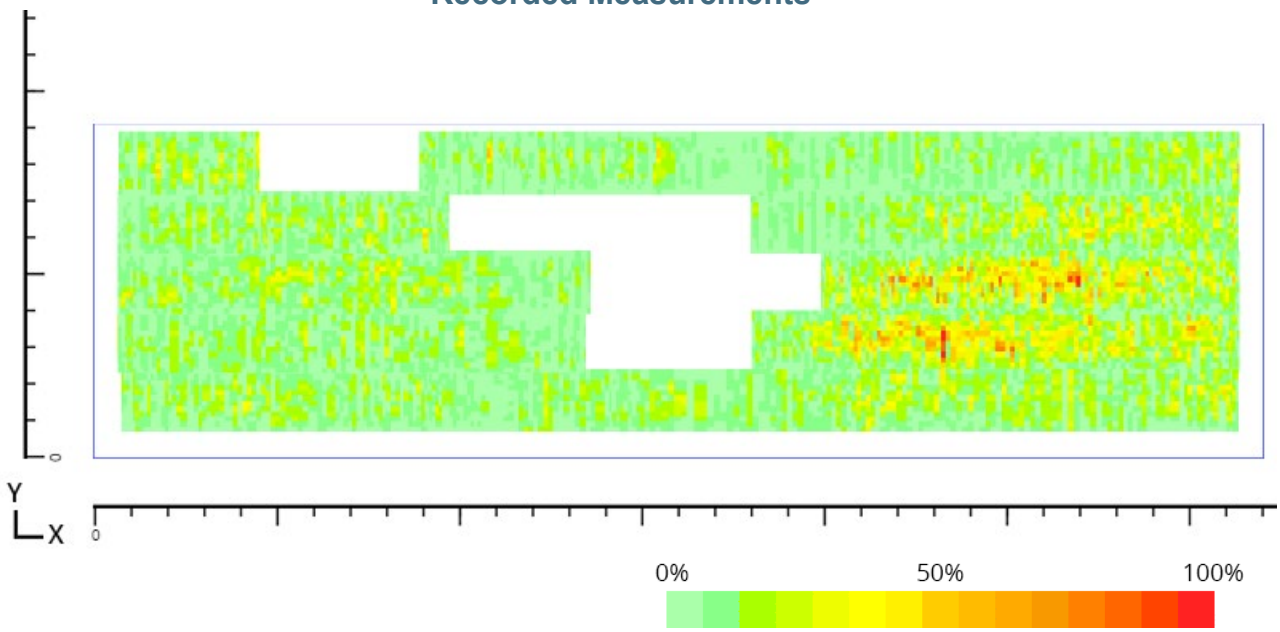
Length (X): 592.99cm

Width (Y): 170cm

Thickness: 6,35 mm

Selected Signal Range: 3 – 450 mV

Recorded Measurements



Scanned Track Outlines

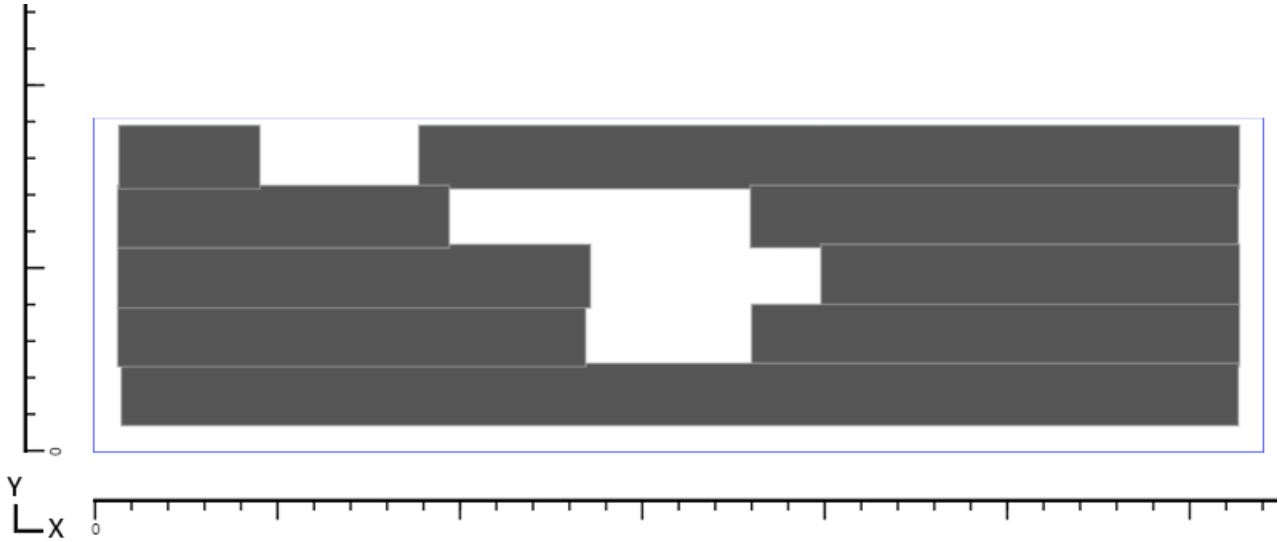


Plate Number 10

Max Signal: 60%

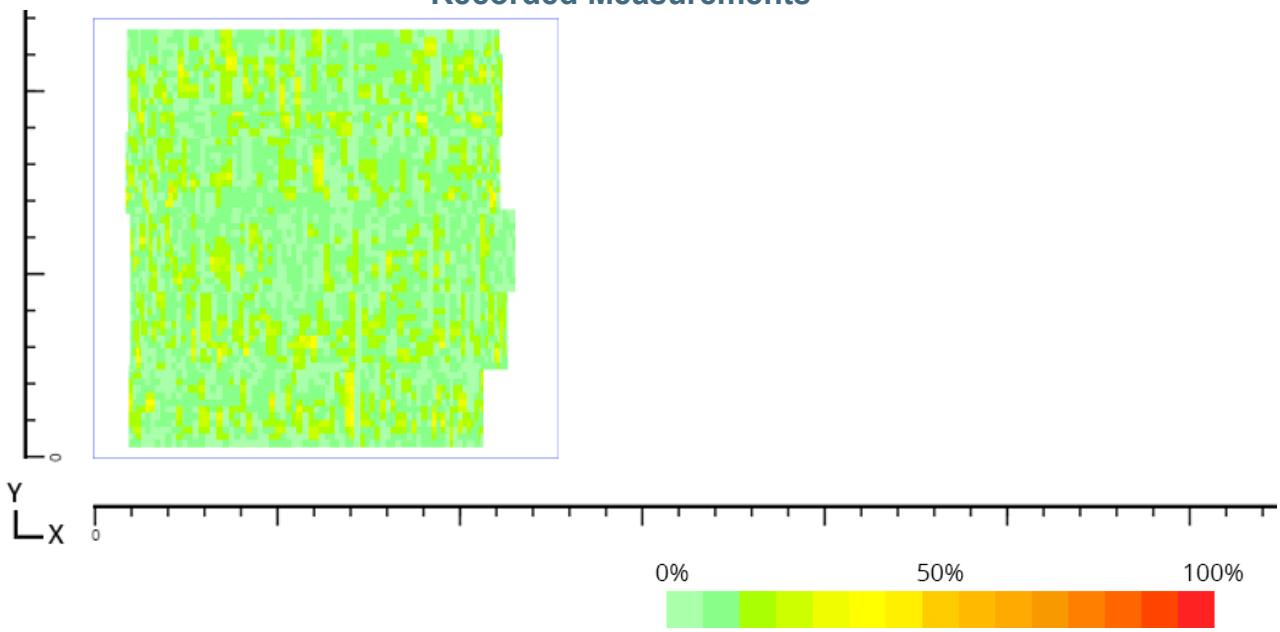
Length (X): 180.01cm

Width (Y): 170cm

Thickness: 6,35 mm

Selected Signal Range: 0 – 350 mV

Recorded Measurements



Scanned Track Outlines

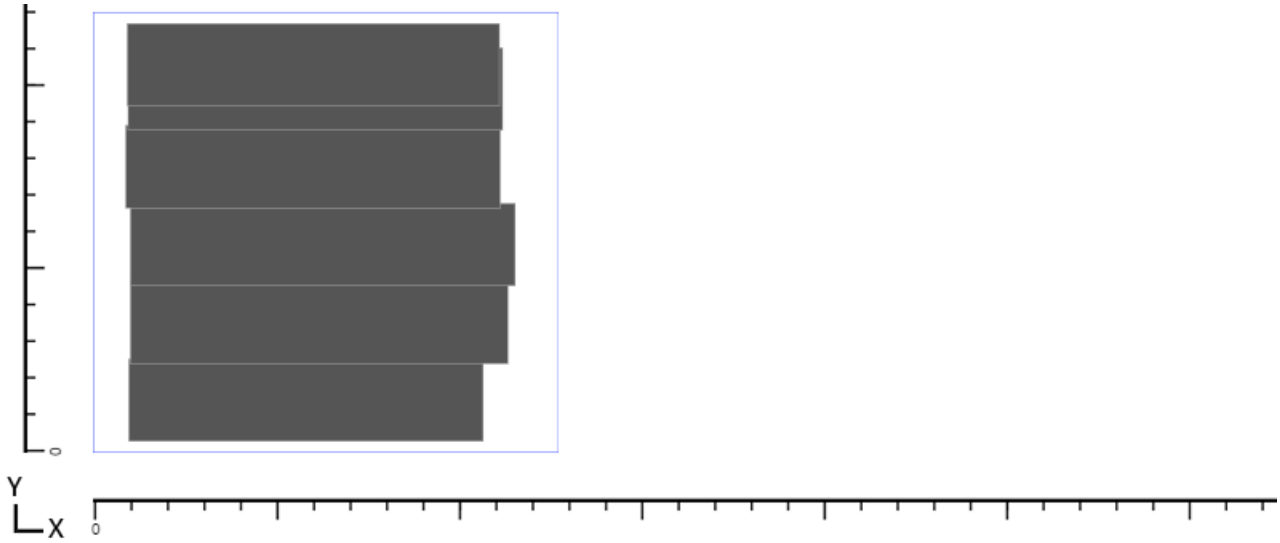
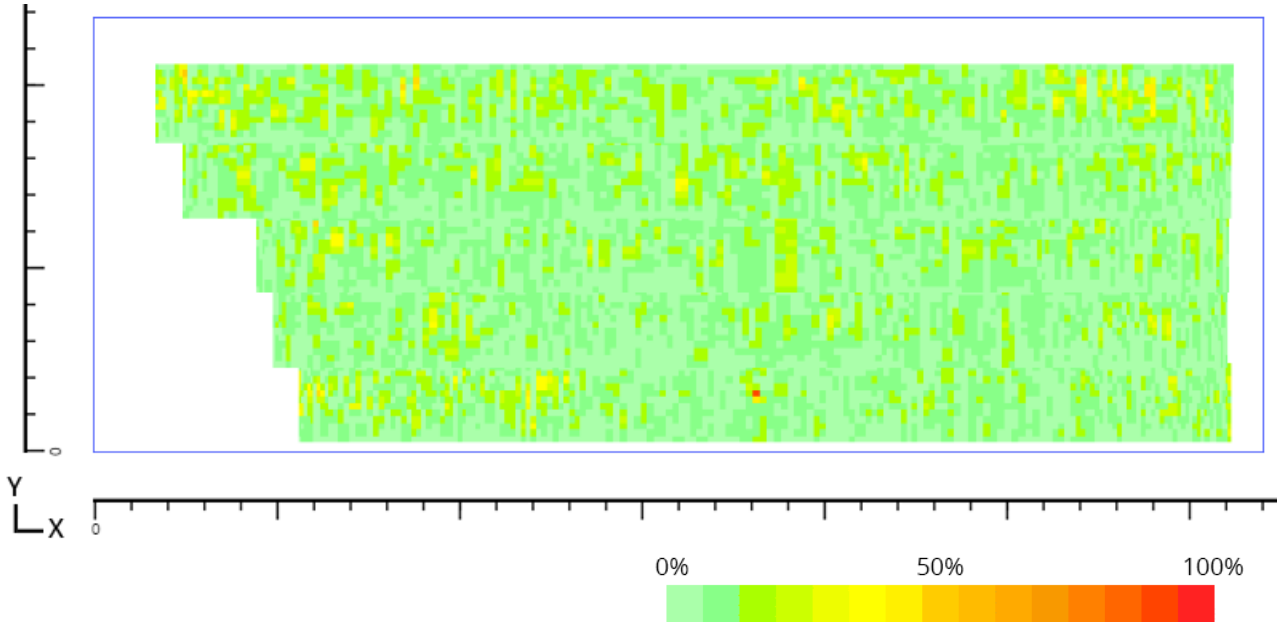


Plate Number 11

Max Signal: 100% **Length (X):** 470cm **Width (Y):** 175.01cm **Thickness:** 6,35 mm

Selected Signal Range: 3 – 450 mV

Recorded Measurements



Scanned Track Outlines

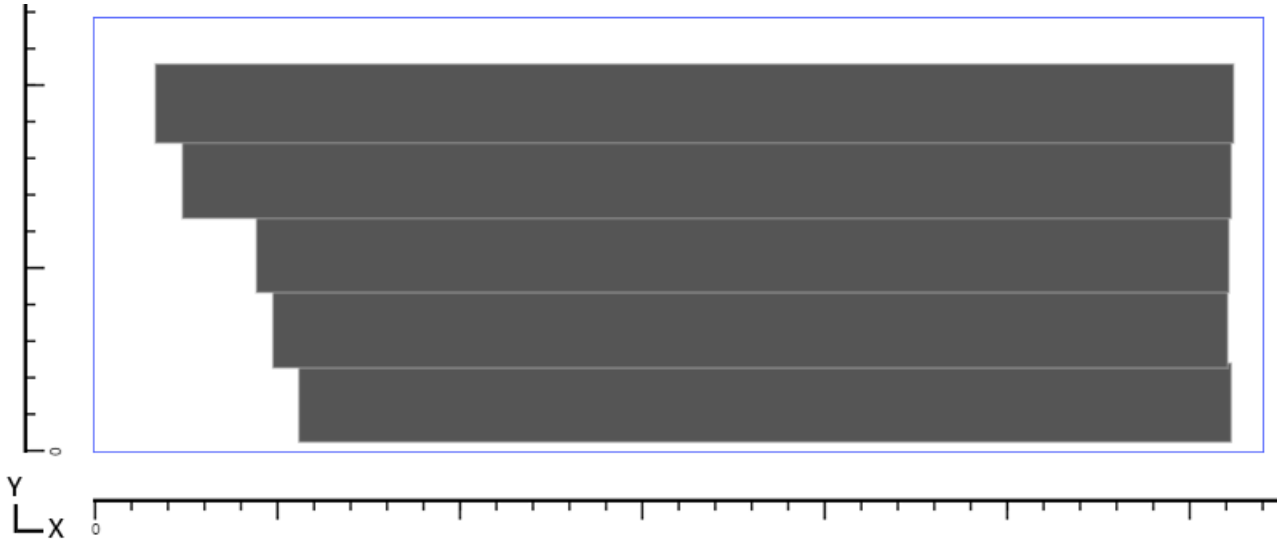


Plate Number 12

Max Signal: 60%

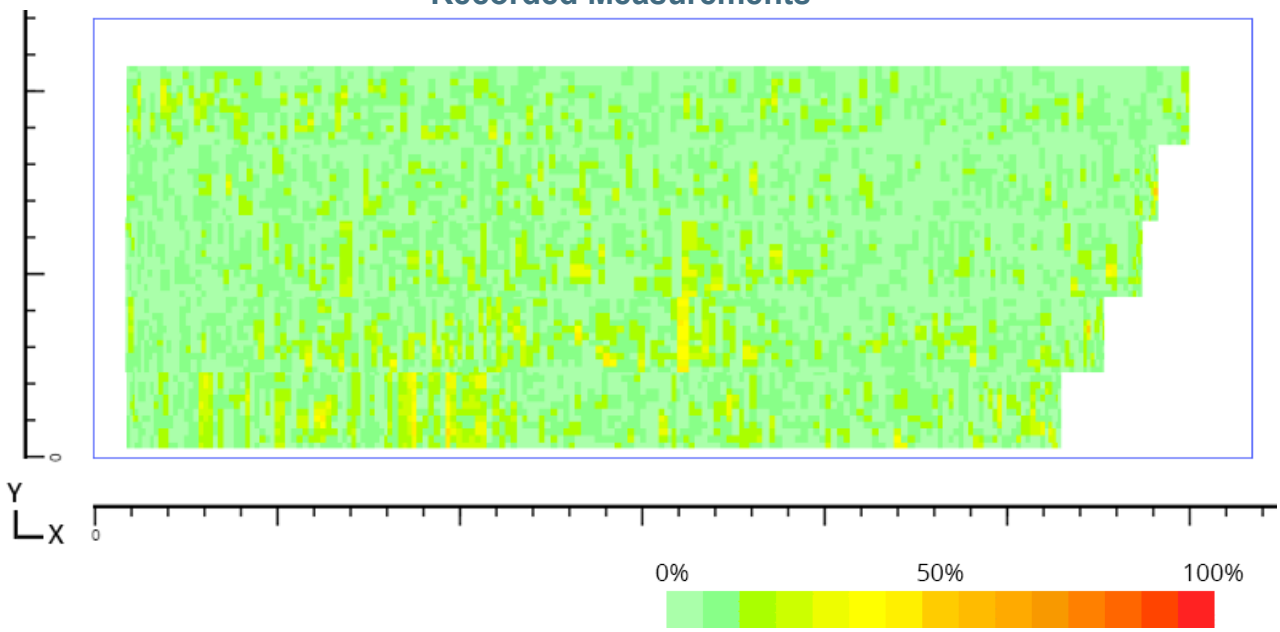
Length (X): 459.99cm

Width (Y): 175.01cm

Thickness: 6,35 mm

Selected Signal Range: 3 – 450 mV

Recorded Measurements



Scanned Track Outlines

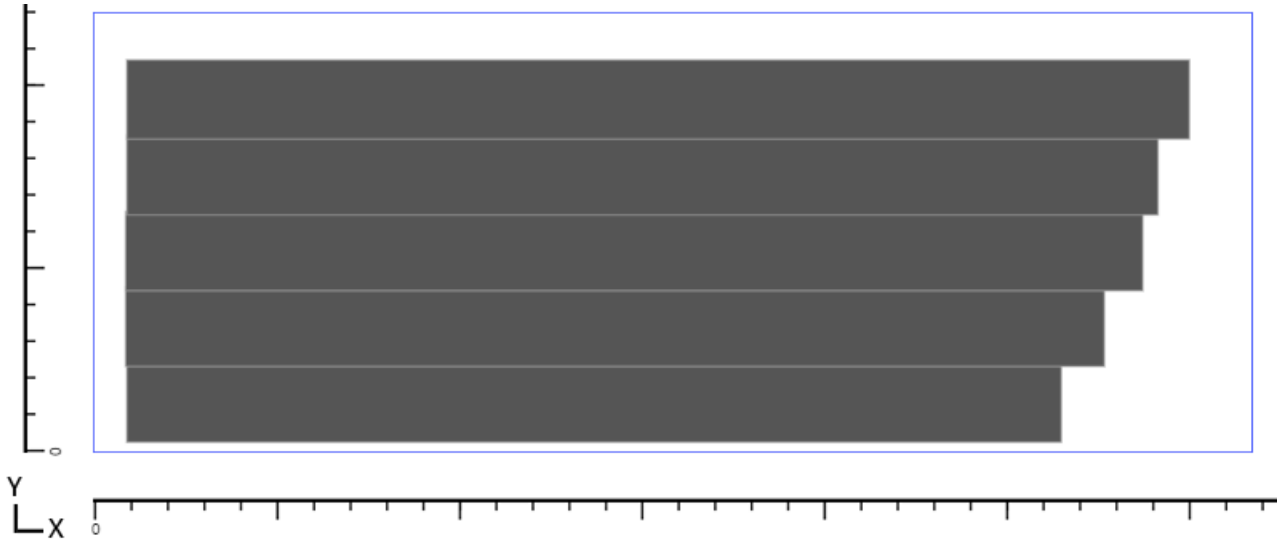
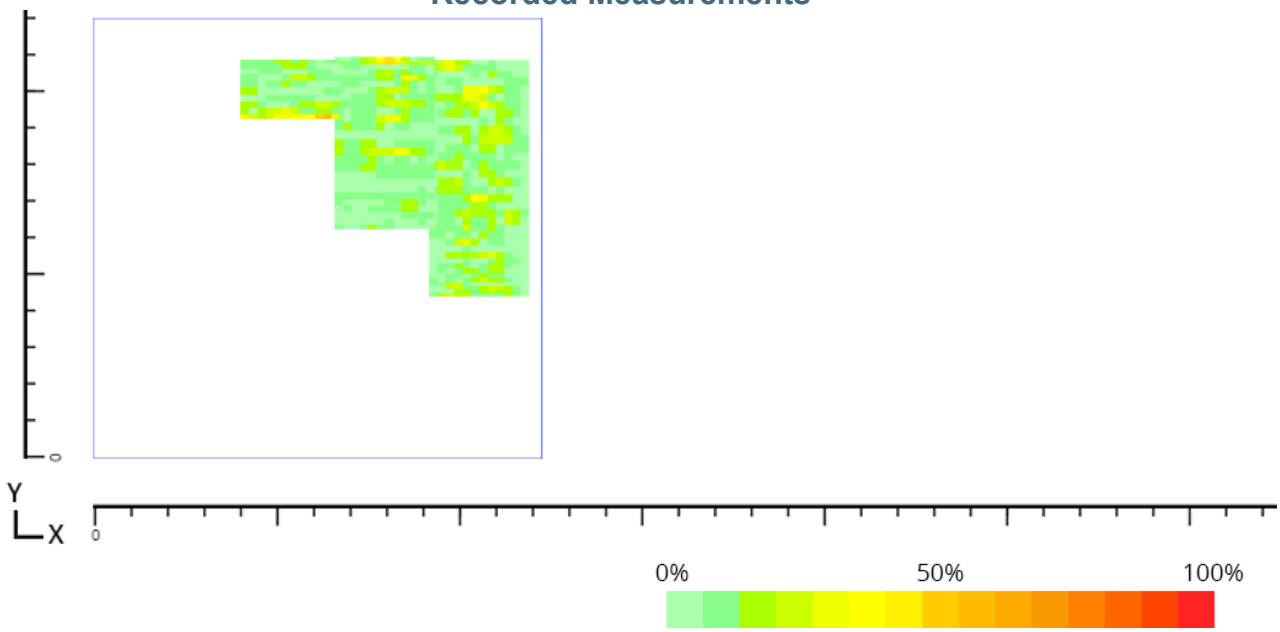


Plate Number 13

Max Signal: 66.7% **Length (X):** 143cm **Width (Y):** 140cm **Thickness:** 6,35 mm

Selected Signal Range: 3 – 450 mV

Recorded Measurements



Scanned Track Outlines

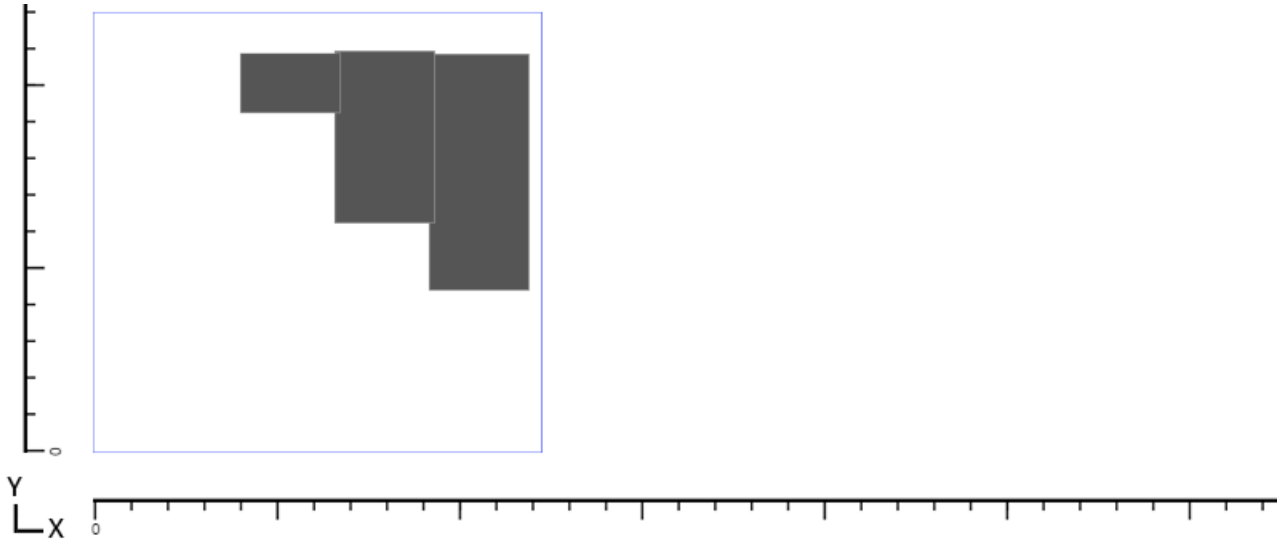


Plate Number 14

Max Signal: 53.3%

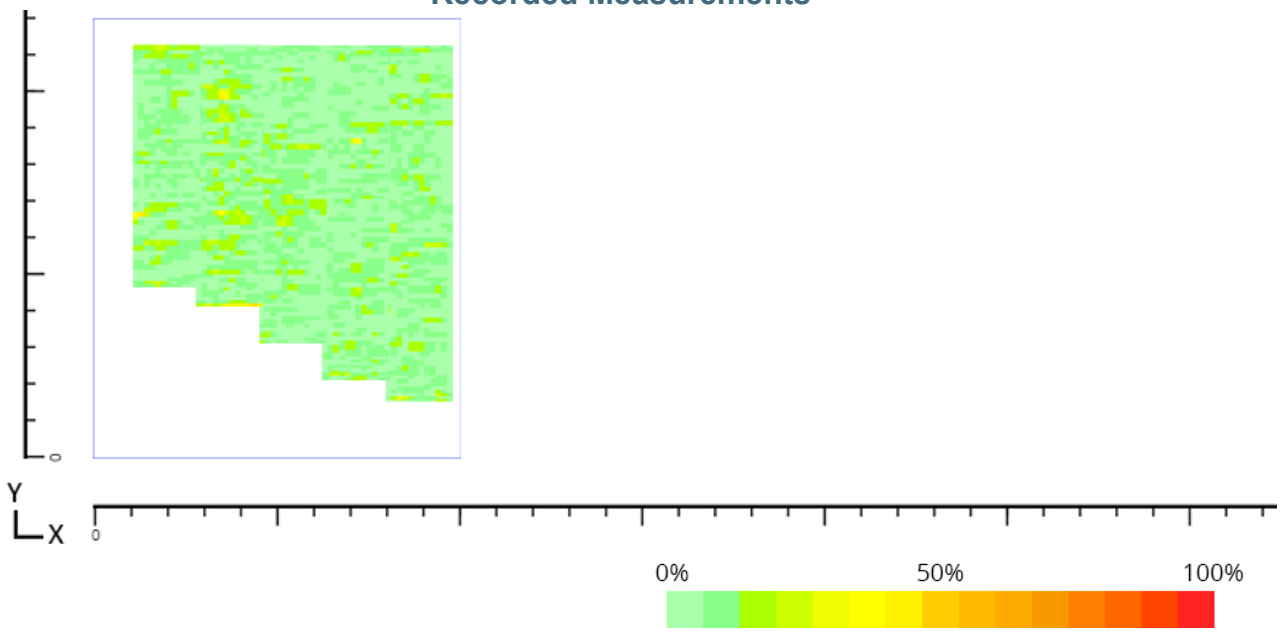
Length (X): 175.01cm

Width (Y): 208.99cm

Thickness: 6,35 mm

Selected Signal Range: 3 – 450 mV

Recorded Measurements



Scanned Track Outlines

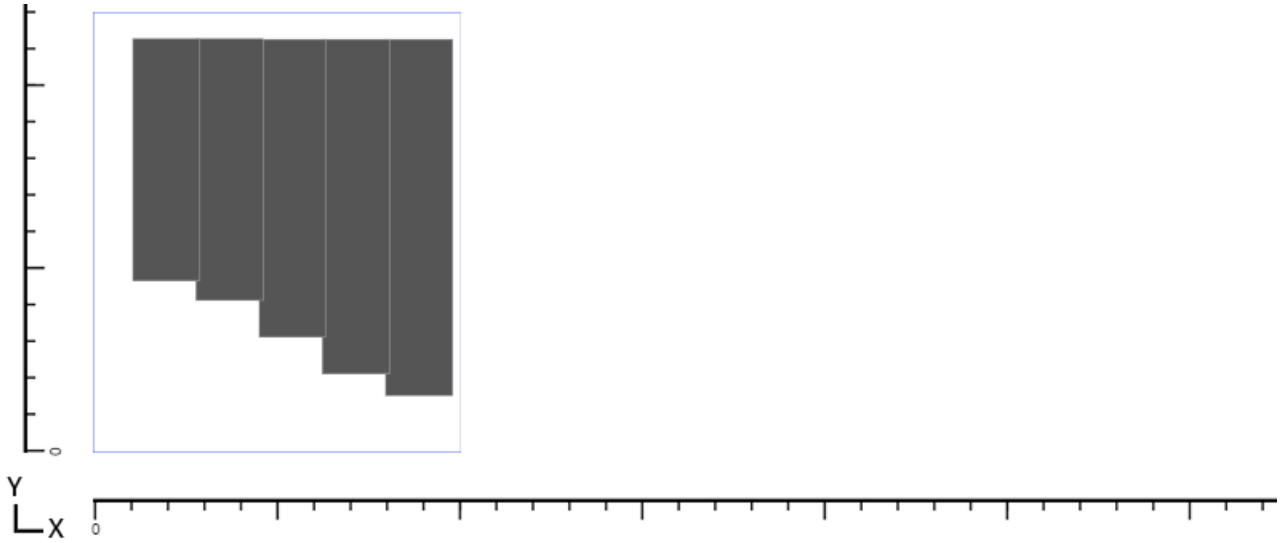


Plate Number 15

Max Signal: 86.7%

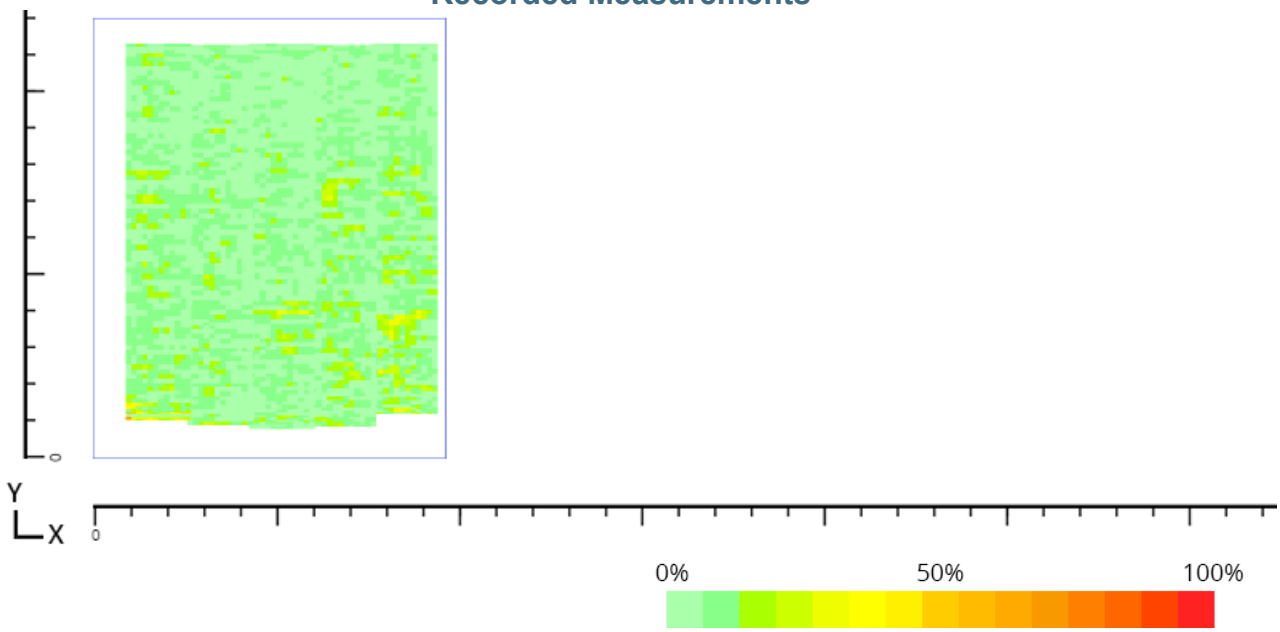
Length (X): 172.01cm

Width (Y): 213.99cm

Thickness: 6,35 mm

Selected Signal Range: 3 – 450 mV

Recorded Measurements



Scanned Track Outlines

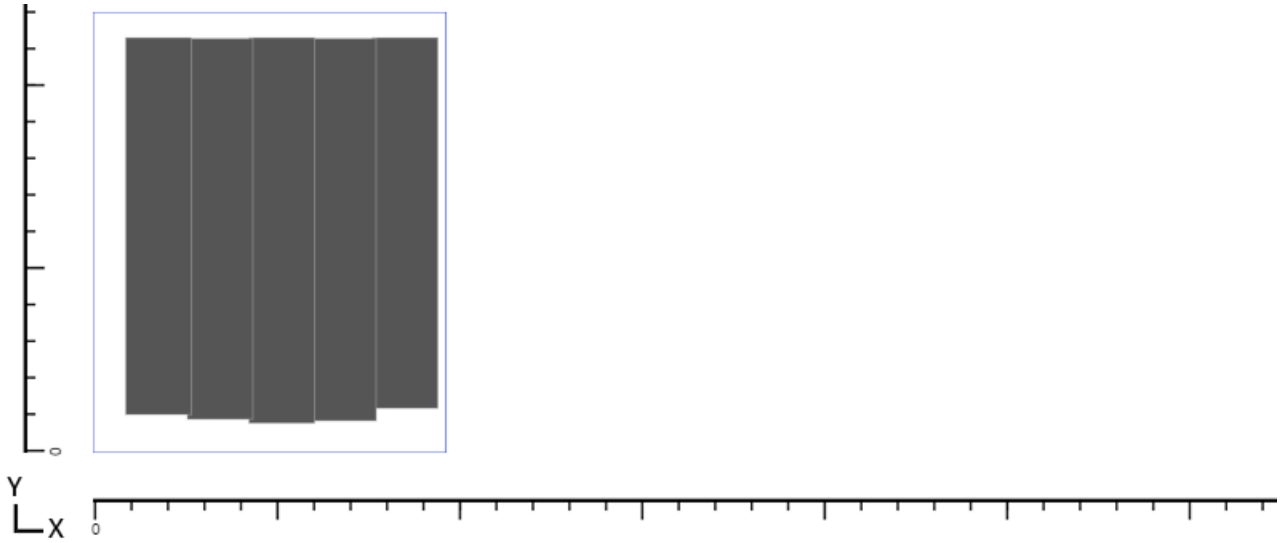


Plate Number 16

Max Signal: 46.7%

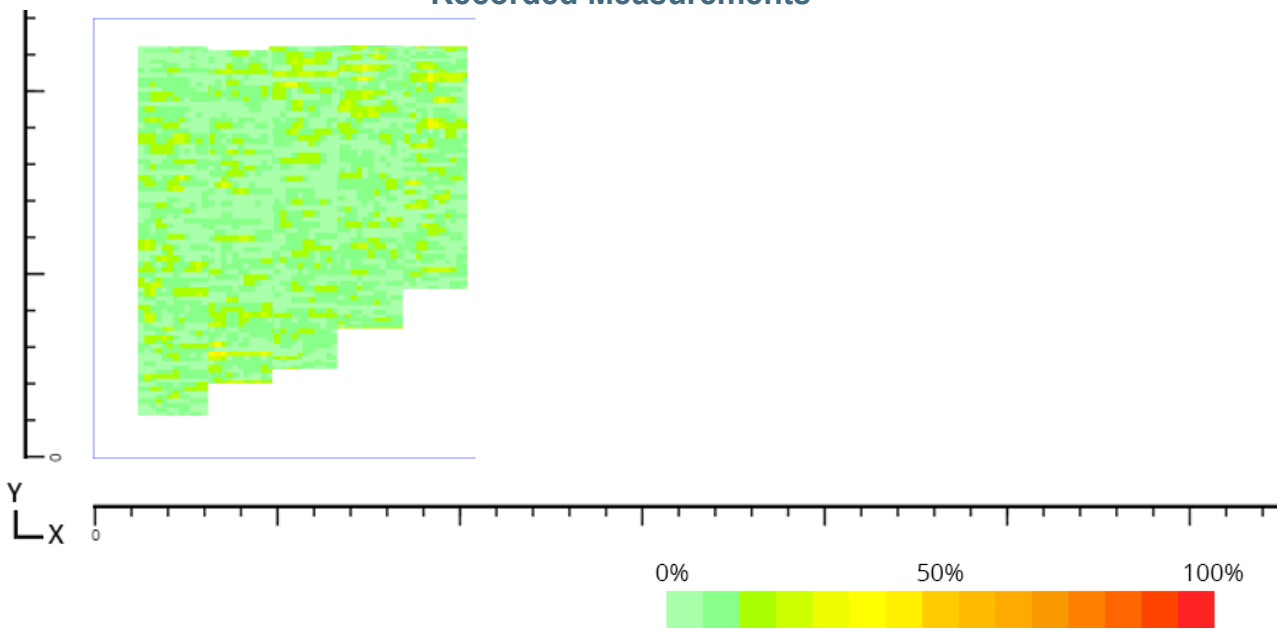
Length (X): 177.01cm

Width (Y): 203cm

Thickness: 6,35 mm

Selected Signal Range: 3 – 450 mV

Recorded Measurements



Scanned Track Outlines

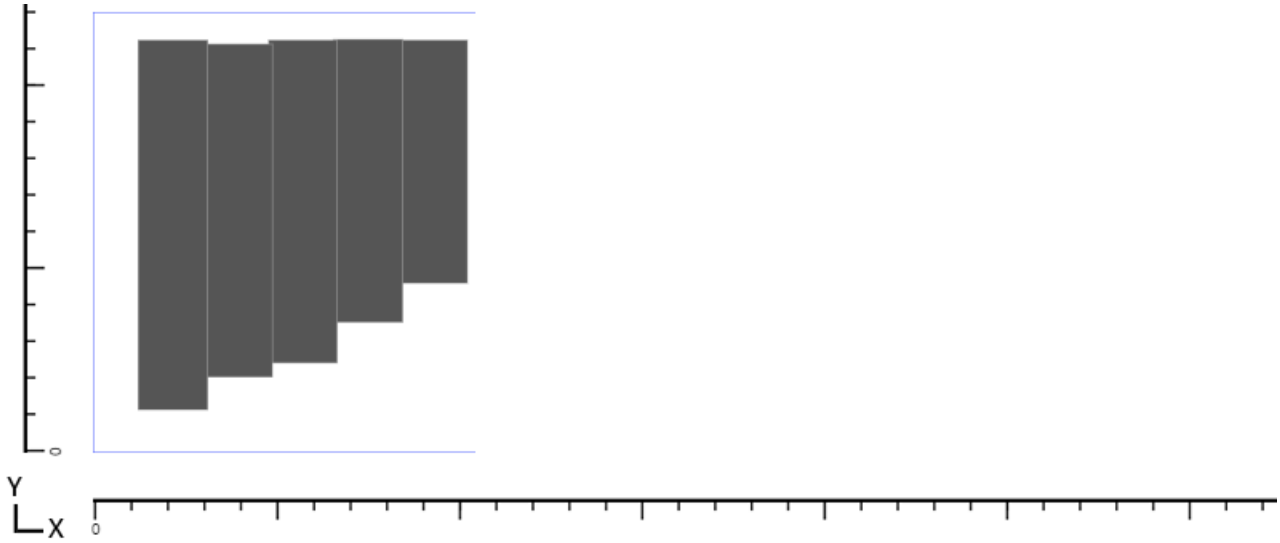
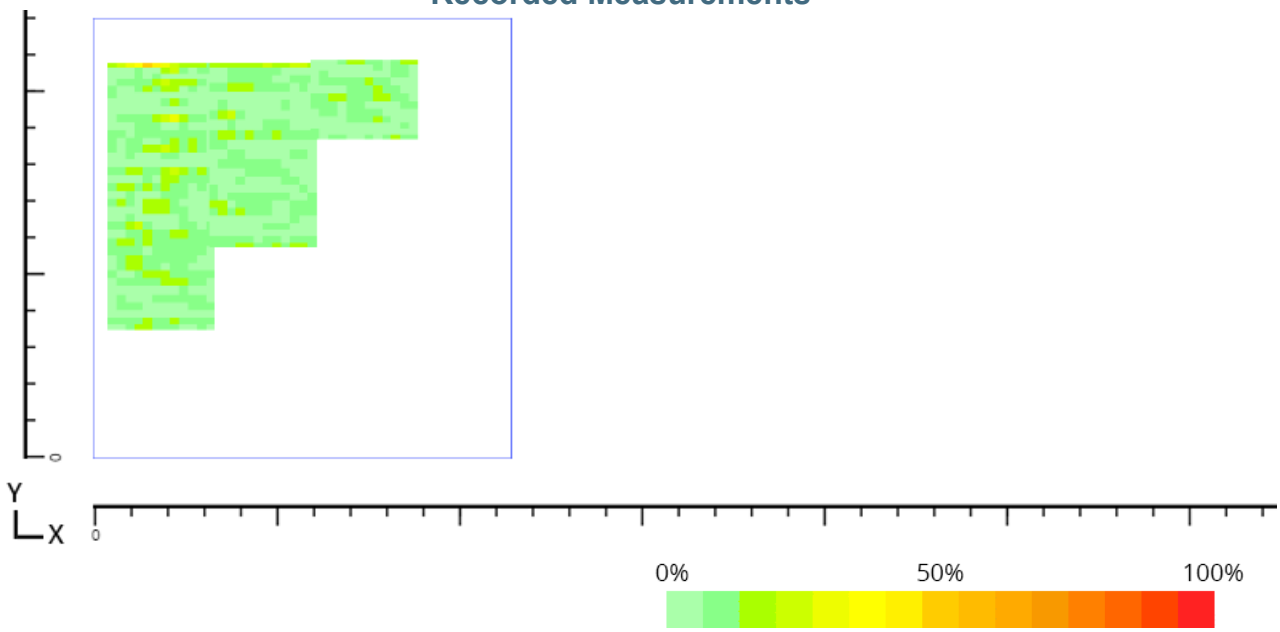


Plate Number 17

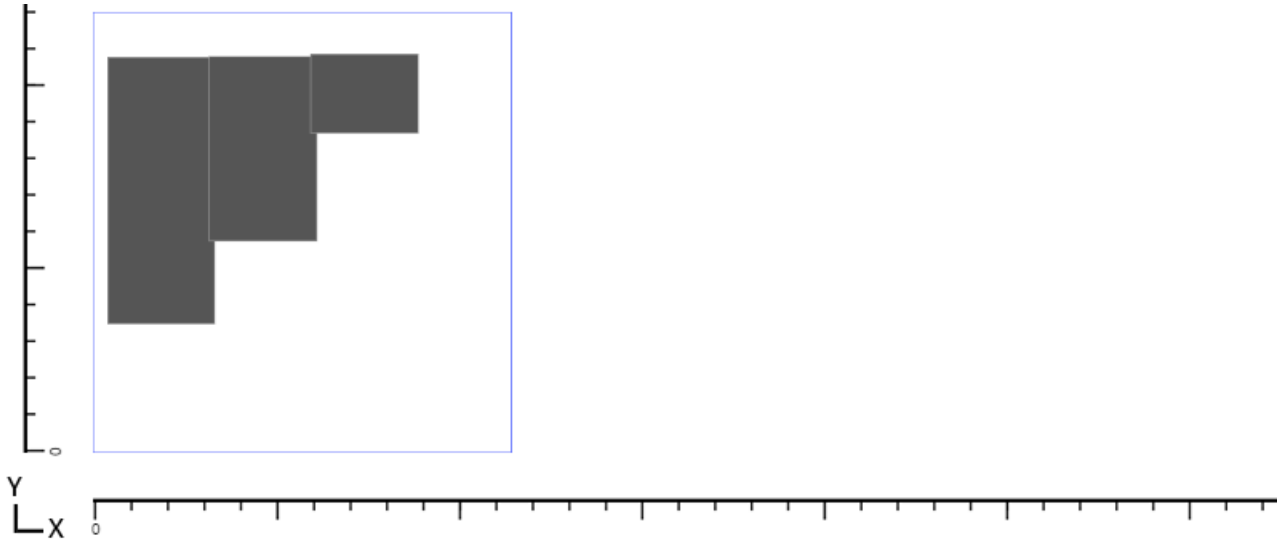
Max Signal: 60% **Length (X):** 124cm **Width (Y):** 130cm **Thickness:** 6,35 mm

Selected Signal Range: 3 – 450 mV

Recorded Measurements



Scanned Track Outlines



Samgöngustofa

Starfsleyfi
til þykktarmælinga á skipum

Starfsleyfið er veitt samkvæmt heimild í lögum um Samgöngustofu, stjórnsýslustofnun samgöngumála, nr. 119/2012 og Skipalögum nr. 66/2021

Nafn:	Heimili:	Sveitarfélag:	Kt.:
HD ehf.	**Vesturvör 36**	**200 Kópavogi**	**431298-2799**
- Gísli Arnar Guðmundsson	Sómatúni 18	600 Akureyri	251172-4639

Með starfsleyfi þessu er ofanrituðum veitt heimild til að annast þykktarmælingar á skipum og bátum, skýrslugerð og innfærslu í skipaskrá vegna þeirra.

Um framkvæmd þykktarmælingar, skýrslugerðar og innfærslu í skipaskrá skal hafa samráð við starfsmenn Samgöngustofu. Fylgja skal ákvæðum í lögum, reglugerðum og verklagsreglum um þykktarmælingar, sjá VIN – 2142 *Þykktarmæling á skipum sem smíðuð eru úr stáli og áli.*

Gildi starfsleyfis er m.a. bundið því skilyrði að HD ehf. og starfsmenn fyrirtækisins sé samþykkt af viðurkenndu flokkunarfélagi til að framkvæma þykktarmælingar á flokkuðum skipum.

Starfsleyfið gildir til: **4. nóvember 2027**

Fella má starfsleyfið úr gildi ef ekki er farið í einu og öllu eftir settum reglum og leiðbeiningum þar um.

F.h. Samgöngustofu

Reykjavík	4.11.2022	LEIFUR [illegible]
Staður	**Dagsetning**	**Undirskrift og stimpill**

SAMGÖNGUSTOFA

BINDT
THE BRITISH INSTITUTE OF NON-DESTRUCTIVE TESTING

UKAS PERSONNEL CERTIFICATION
0030

RECORD OF PCN CERTIFICATION

Further information on the scope of certification available may be obtained from The Certification Services Department, British Institute of NDT, Midsummer House, Riverside Way, Bedford Road, Northampton NN1 5NX, United Kingdom.
E-mail: pcn@bindt.org
Tel: +44 01604 438300 Fax: +44 01604 438301

Valid only when signed on behalf of BINDT and incorporating stamp below:

This document may be withdrawn or revoked in part or in total at any time.

PART 1 - HOLDER'S DETAILS

PCN NUMBER:
347274

ISSUE DATE:
08/02/2023

ISSUE NUMBER:
1

NAME & ADDRESS:
Andre Sando
Hamarstigur 37
600 Akureyri
Akureyri
600
Iceland



NORMAL SIGNATURE: Andre Sandó

This part may be used by the employer to signify that the certificate holder is authorised to carry out NDT on behalf of the employing company.

COMPANY STAMP	SIGNATURE & NAME OF PERSON AUTHORISING	DATE

PRESSURE EQUIPMENT (SAFETY) REGULATIONS (PESR)

The Pressure Equipment (Safety) Regulations 2016 implemented Directive 2014/68/EU on pressure equipment and assemblies. The British Institute of Non-Destructive Testing is a Recognised Third-Party Organisation accredited by UKAS, under Pressure Equipment (Safety) Regulations 2016: Guidance (GB) which implement the provisions of Directive 2014/68/EU concerning pressure equipment. The scope of the appointment is for the approval of personnel to carry out Non-Destructive tests on permanent joints for pressure equipment in categories III and IV in accordance with section 22 of Schedule 2 to the Regulations. All PCN certification valid for the welding and pre & in-service inspection sectors satisfies the Pressure Equipment (Safety) Regulations 2016: Guidance (GB).

FOR NOTIFICATION OF PERMANENT CHANGE OF HOLDER'S ADDRESS PLEASE REFER TO FORM PSL 18 AVAILABLE TO DOWNLOAD AT BINDT.ORG/CERTIFICATION

PART 2 - CERTIFICATION HELD (All certificates comply with EN ISO:9712 unless otherwise started) D= Distinction (80% or above average)

CERTIFICATE NUMBER	ISSUE	LEVEL	SECTOR	METHOD	SCOPE OF CERTIFICATE (see over for key to codes)	ISSUES DATE	EXPIRY
E022S62428731	1	2	6	24	Butt Welds in Plate, NDT Instruction Writing, Plate	01/12/2022	30/11/2027

Verification of current certification status is strongly encouraged and is available at www.bindt.org/PCN or by post, telephone, fax or e-mail quoting the unique PCN Number or full name shown in Part 1

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andre.sando@icloud.com Accessed on 27/02/2023 at 12:40:23

RTPO
for Welding & NDT
LRQA-CASL

EU CERTIFICATE OF APPROVAL OF NDT PERSONNEL In accordance with the requirements of the Pressure Equipment Directive 2014/68/EU

TO WHOM IT MAY CONCERN:

LRQA Certification and Assurance Services Limited, a Recognised Third-party Organisation as described in the European Pressure Equipment Directive 2014/68/EU, Article 20, has approved the following NDT personnel to carry out the specified non-destructive tests of permanent joints for pressure equipment in categories III and IV (2014/68/EU, Annex I, section 3.1.3 refers)

The approval is granted in accordance with the LRQA-CASL PD CEN / TR 15589 Route B Certification Scheme.

Recognised Certification Body: BINDT/PCN

Certification Body Address: Midsummer House Riverside Way Bedford Road Northampton, NN1 5NX

(Accredited to ISO/IEC 17024:2012 to provide certification of persons against EN ISO 9712:2012)

Signed for and on behalf of LRQA-CASL

J Cook

PCN Number 347274

NAME OF APPROVED PERSON	PCN NUMBER	METHOD	SECTOR	LEVEL	CERTIFICATE NUMBER	ISSUES DATE	EXPIRY
Andre Sando	347274	Ultrasonic Testing	Weldments	2	E022S62428731	01/12/2022	30/11/2027

PCN Record of Certification issue 1 dated 08/02/2023

Verification of current certification status is strongly encouraged and is available at www.bindt.org/PCN or by post, telephone, fax or e-mail quoting the unique PCN Number or full name shown in Part 1

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