

INFORME TECNICO N° 034c-2018/PT/FS

ESTUDIO DE PENETRACIÓN DE CALOR

PUERTOS DEL PACÍFICO S.A.
Callao, Perú

31 DE MAYO DE 2018

I. INFORMACIÓN GENERAL

Razón Social:	PUERTOS DEL PACÍFICO S.A.
Fecha de realizadas las pruebas:	16 de mayo de 2018
Dirección planta :	Calle Carlos Concha 113, Provincia Constitucional del Callao, Perú
Responsable en planta:	Ing. Julio César Ortiz Paredes (Jefe de Planta Conservas)
Responsable de calidad:	Ing. Edward Martin Baca Chong (Jefe de Control de Calidad Conservera)

II. OBJETIVO - ALCANCE

Validar la penetración de calor del siguiente producto procesado en su planta

Producto	Envase	Dimensiones
Lomo de atún en aceite de oliva	Hojalata (1/2 libra de 2 cuerpos)	307 x 109 (87 x 40 mm)

III. EQUIPO EMPLEADO Y CÁLCULO DE LOS PROCESOS

Se utilizó un equipo de penetración de calor (marca Ecklund-Harrison Technologies, Fort Myers, Florida, USA), conformado por cables tipo T (cobre – constantan) de grado 22 con conectores macho no ajustables. Se emplearon de 10 cables conectados a los envases de prueba, así como 4 cables adicionales como “cables libres”, a fin de monitorear la temperatura del medio de calentamiento.

La recolección de datos fue realizada con el Software de Procesamiento Térmico de TechniCAL CALSoft5™. Dicho software dirige la unidad recolectora de datos (CALPlex™) para que busque las termocuplas disponibles y recolecte los datos de temperatura a intervalos pre-determinados. Los datos de tiempo/temperatura fueron recolectados cada 20 segundos durante todo el proceso.

Se realizó una prueba de penetración de calor, empleando las condiciones críticas (“peor caso”) a fin de garantizar que los resultados cubran los diferentes escenarios que puedan presentarse en la producción, como por ejemplo el peso de llenado. Los sensores se ubicaron en el centro geométrico del producto, “punto de calentamiento más lento”.

El software CALSoft emplea un esquema de nomenclatura “aammdxx.CHP”, el cual se interpreta como sigue: aa = año, mm = mes, dd = día, xx = número secuencial para el día. Por ejemplo, una prueba identificada como 18051202.CHP corresponde a la segunda prueba realizada el 12 de mayo de 2018.

Para el cálculo de los procesos programados se consideró una temperatura de referencia de 121.1°C (250°F) y un valor z 10°C (18°F), parámetros convencionalmente utilizados en el cálculo de procesos de esterilización para asegurar la eliminación del *Clostridium botulinum*.

La data recolectada fue ploteada y evaluada con el software CALSoft5™ utilizando el Método de Fórmula de Ball y un F_0 de 6. Esta metodología de cálculo, utilizada ampliamente en los EE.UU permite flexibilidad en calcular los tiempos de proceso según diferentes temperaturas iniciales y temperaturas de proceso térmico para obtener el F_0 de 6.

IV. DESARROLLO DE LAS PRUEBAS

Producto: Lomo de Atún en Aceite de Oliva

El producto empleado en los envases de prueba fue tomado de las líneas de producción. Los envases para las pruebas de penetración de calor fueron llenados con el producto. Se adicionó luego el aceite de oliva, para finalmente insertar las termocuplas y cerrar los envases de prueba.

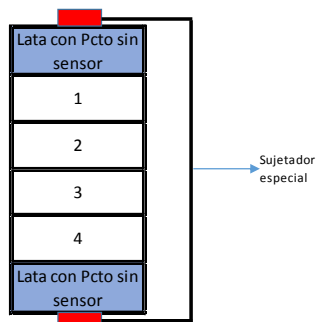
A fin de simular la peor condición de producción, se empleó un peso superior al empleado regularmente en producción, según se detalla a continuación:

- Lomo de atún: 125 gramos (con 10 gramos máximo de desmenuzado)
- Aceite de oliva: aproximadamente 50 gramos
- Razón sólido/líquido: 5/2

Durante producciones normales el producto se carga de manera acomodada siguiendo lo que planta denomina "pirámide vertical invertida" (ver foto).



Debido a que el producto se puede mover y no tiene separadores y existe la posibilidad de anidamiento. Las muestras se colocaron de la siguiente manera:



Las muestras fueron luego ingresadas a la autoclave de vapor horizontal denominado # 1. Dada la metodología usada para el cálculo (Método de Fórmula de Ball), los envases fueron colocados en la parte superior del primer coche. Todos los coches fueron llenados con envases balastro (envases llenos con agua), para correr las pruebas.

A continuación se muestra un resumen de la prueba realizada.

Prueba #1 –18051602.chp

- **Fecha del estudio:** 16 de mayo de 2018
- **Número de envases válidos:** 9 (con muestras de lomo)
- **Ubicación de las termocuplas:** Centro geométrico
- **Posición del Envase:** Carga acomodada “pirámide vertical invertida” sin separadores
- **Temperatura Inicial Considerada:** 40°C
- **Temperatura Programada en Autoclave:** 116°C
- **Temperatura Mínima de Cocción en la Prueba:** 116°C
- **Tiempo de Enfriamiento en Producción:** 25 minutos

V. RESULTADOS

De la evaluación de los datos recolectados con el CALSoft se desprende lo siguiente:

Archivo y termocupla utilizada para el cálculo: 18051602.chp (Termocupla # 23)

Crédito por el tiempo de levante: Se utilizó el crédito por levante (CUT de 15 minutos)

En el cuadro 1 se muestran los proceso térmicos que se pueden aplicar y los factores críticos que se deben controlar para asegura la aplicación de un proceso térmico que garantice la esterilidad comercial del producto.

Los datos tiempo y temperatura y los valores F directamente recabados en la prueba se muestran en el anexo I de manera referencial.

VI. CONCLUSIONES

Los procesos térmicos recomendados en el Cuadro 1 permiten alcanzar valores F_0 de 6 que garantizan la esterilidad comercial del producto lomo de atún en aceite de oliva, envase de hojalata 307 x 109, procesado por PUERTOS DEL PACÍFICO S.A.

La planta deberá establecer procedimientos y registros para evidenciar que todo el proceso térmico recomendado y sus factores críticos, se estén monitoreando y controlando en cada lote de producción.

Los resultados de este informe se mantendrán válidos si todas las características, condiciones y parámetros descritos y observados en la planta, se mantienen. Si la empresa considera realizar algún cambio en el producto o en las condiciones de procesamiento, deberá informarlo por escrito para su respectiva evaluación, antes de que el cambio se realice.



ING. SU-TZE LIU GONZALES
GRUPO FS S.A.C

CUADRO 1 – RESUMEN DE PROCESOS TÉRMICOS Y FACTORES CRÍTICOS

CALCULATED PROCESS TIME

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Date Printed: Friday, June 01, 2018 4:52:28 pm

PRODUCT : FILETE, SÓLIDO O LOMO DE ATÚN EN ACEITE DE OLIVA
CONTAINER : Can-1/2 Lb-307 x 109
CONTAINER INFO : Envase de 2 cuerpos
RETORT : Horizontal- Steam-CUSTOM DESIGN
PROCESSOR : PUERTOS DEL PACIFICO
LOCATION : CALLAO
OTHER INFO : 21-30: LOMO DE ATÚN EN ACEITE DE OLIVA
13-17: CABLES LIBRES

ProCAL Record Number : 22
PROCESS COMPLETED : 5/31/2018 9:30:34PM
FILE NAME & TC# Used : C:\Users\fssejecutivo1\Documents\073-2018 - PUERTOS DEL PACÍFICO\Registros
CalSoft\18051602 (Leads 21-30).chp TC # =23

CRITICAL FACTORS:

- La formulación y los procedimientos de preparación deben ser consistentes con aquellos utilizados durante las pruebas de penetración de calor.
- Orientación del envase en la autoclave: pirámide vertical invertida, sin separadores
- Tiempo de Levante Mínimo: 15 minutos. Cumplir además con todo el procedimiento operacional fijado en sus estudios de distribución de temperatura
- Máximo peso de llenado: 125 gramos (con 10 gramos máximo de desmenuzado)

PROCESS VALUES:

*jh= 1.07 fh= 41.75 f2= 0.00 xbh= 0.00
jc= 1.41 fc= 41.75 F(10.00/121.11) = 6.00
m+g= 100.00 ** Come-Up-Time used for Credit Process Correction= 0.00%
Calculation=15.00

* Thermal Correction Used =1.06

**Process Time has been credited for lethality contributed by 42% of the Come-Up-Time listed in the above Come-Up-Time field. The actual Come-Up-Time may differ from this value. Refer to the appropriate Come-Up Schedule for the minimum Come-Up Time required for your retorts.

9th Degree Ball Formula Used

I.T. (deg. C)	R.T. (deg. C)	Calculated Process Time (minutes)	Calculated Process Time (HH:MM:SS)	Suggested Process Time (minutes)
25.00	113.00	93.89	01:33:54	94.00
25.00	114.00	85.39	01:25:24	86.00
25.00	115.00	78.30	01:18:18	79.00
25.00	116.00	72.31	01:12:19	73.00
30.00	113.00	92.83	01:32:50	93.00
30.00	114.00	84.34	01:24:21	85.00
30.00	115.00	77.26	01:17:16	78.00
30.00	116.00	71.29	01:11:18	72.00
35.00	113.00	91.70	01:31:43	92.00
35.00	114.00	83.23	01:23:14	84.00
35.00	115.00	76.16	01:16:10	77.00
35.00	116.00	70.20	01:10:13	71.00
40.00	113.00	90.50	01:30:31	91.00
40.00	114.00	82.04	01:22:03	83.00
40.00	115.00	74.99	01:15:00	75.00

Date Printed Friday, June 1, 2018

Página 1 de 2

CUADRO 1 – RESUMEN DE PROCESOS TÉRMICOS Y FACTORES CRÍTICOS (continuación)

CALCULATED PROCESS TIME

Generated by CALSoft 5.0.5 © 2018 TechniCAL Inc

Date Printed: Friday, June 01, 2018 4:52:28 pm

PRODUCT : FILETE, SÓLIDO O LOMO DE ATÚN EN ACEITE DE OLIVA
CONTAINER : Can-1/2 Lb-307 x 109
CONTAINER INFO : Envase de 2 cuerpos
RETORT : Horizontal- Steam-CUSTOM DESIGN
PROCESSOR : PUERTOS DEL PACIFICO
LOCATION : CALLAO
OTHER INFO : 21-30: LOMO DE ATÚN EN ACEITE DE OLIVA
13-17: CABLES LIBRES

ProCAL Record Number : 22
PROCESS COMPLETED : 5/31/2018 9:30:34PM
FILE NAME & TC# Used : C:\Users\lfejecutivo1\Documents\073-2018 - PUERTOS DEL PACÍFICO\Registros
CalSoft\18051602 (Leads 21-30).chp TC # =23

CRITICAL FACTORS:

- La formulación y los procedimientos de preparación deben ser consistentes con aquellos utilizados durante las pruebas de penetración de calor.
- Orientación del envase en la autoclave: pirámide vertical invertida, sin separadores
- Tiempo de Levante Mínimo: 15 minutos. Cumplir además con todo el procedimiento operacional fijado en sus estudios de distribución de temperatura
- Máximo peso de llenado: 125 gramos (con 10 gramos máximo de desmenuzado)

PROCESS VALUES:

*jh= 1.07 fh= 41.75 f2= 0.00 xbh= 0.00
jc= 1.41 fc= 41.75 F(10.00/121.11) = 6.00
m+g= 100.00 ** Come-Up-Time used for Credit Process Correction= 0.00%
Calculation=15.00

* Thermal Correction Used =1.06

**Process Time has been credited for lethality contributed by 42% of the Come-Up-Time listed in the above Come-Up-Time field. The actual Come-Up-Time may differ from this value. Refer to the appropriate Come-Up Schedule for the minimum Come-Up Time required for your retorts.

9th Degree Ball Formula Used

I.T. (deg. C)	R.T. (deg. C)	Calculated Process Time (minutes)	Calculated Process Time (HH:MM:SS)	Suggested Process Time (minutes)
40.00	116.00	69.05	01:09:03	70.00
45.00	113.00	89.22	01:29:14	90.00
45.00	114.00	80.77	01:20:47	81.00
45.00	115.00	73.74	01:13:45	74.00
45.00	116.00	67.81	01:07:49	68.00
50.00	113.00	87.83	01:27:50	88.00
50.00	114.00	79.41	01:19:25	80.00
50.00	115.00	72.40	01:12:24	73.00
50.00	116.00	66.49	01:06:30	67.00

ANEXO I

Datos de Tiempo y Temperatura de las Pruebas y valores F_o directos

DATA COLLECTION REPORT

Generated by CALSoft 5.0.5 © 2018 TechniCAL Inc

Date Printed: Thursday, May 31, 2018 9:17:37 pm

PRODUCT : FILETE, SÓLIDO O LOMO DE ATÚN EN ACEITE DE OLIVA
CONTAINER : Can-1/2 Lb-307 x 109
RETORT : Horizontal- Steam-CUSTOM DESIGN
PROCESSOR : PUERTOS DEL PACIFICO
LOCATION : CALLAO
TEST DATE/TIME : 5/16/2018 2:10:58 PM
NOTES : 21-30: LOMO DE ATÚN EN ACEITE DE OLIVA
13-17: CABLES LIBRES
FILE NAME : C:\Users\fsjecutivo1\Documents\073-2018 - PUERTOS DEL PACÍFICO\Registros
CalSoft\18051602 (Leads 21-30).chp

THERMOCOUPLES														
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(hh:mm:ss)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
00:00:00	31.49	32.13	31.92	32.19	32.53	39.43	41.61	42.41	43.10	45.18	40.86	40.72	38.72	39.11
00:00:20	48.70	57.52	53.93	55.96	48.27	39.42	41.61	42.43	43.11	45.16	40.83	40.76	38.69	39.11
00:00:40	63.73	65.03	64.37	64.04	60.71	39.41	41.60	42.43	43.13	45.12	40.85	40.79	38.70	39.14
00:01:00	71.04	70.56	69.92	70.44	68.47	39.35	41.54	42.38	43.08	45.03	40.81	40.78	38.67	39.12
00:01:20	74.72	73.63	73.24	73.63	72.37	39.29	41.49	42.34	43.04	44.94	40.75	40.76	38.61	39.09
00:01:40	77.80	77.08	76.89	77.06	75.43	39.26	41.44	42.30	43.00	44.87	40.72	40.75	38.58	39.09
00:02:00	79.76	79.50	79.26	79.47	78.17	39.24	41.40	42.28	42.97	44.82	40.70	40.75	38.55	39.08
00:02:20	81.71	81.76	81.66	81.66	80.42	39.24	41.39	42.27	42.97	44.77	40.69	40.77	38.54	39.08
00:02:40	84.05	83.87	84.00	83.88	82.52	39.25	41.36	42.25	42.95	44.73	40.66	40.74	38.51	39.07
00:03:00	85.42	85.63	85.63	85.65	84.10	39.23	41.33	42.23	42.91	44.68	40.64	40.79	38.49	39.06
00:03:20	87.53	87.42	87.58	87.56	86.22	39.29	41.37	42.24	42.94	44.68	40.67	40.85	38.52	39.10
00:03:40	88.63	88.81	88.89	88.87	87.82	39.38	41.43	42.27	42.96	44.68	40.70	40.95	38.57	39.17
00:04:00	90.19	90.29	90.23	90.27	89.49	39.49	41.52	42.29	43.02	44.72	40.76	41.07	38.63	39.26
00:04:20	91.71	91.72	91.82	91.82	91.36	39.67	41.68	42.38	43.10	44.81	40.88	41.24	38.71	39.37
00:04:40	92.83	92.88	93.04	93.06	92.59	39.83	41.83	42.44	43.18	44.88	40.98	41.41	38.86	39.53
00:05:00	94.36	94.32	94.51	94.42	94.26	40.06	42.04	42.56	43.32	45.03	41.14	41.65	39.03	39.72
00:05:20	95.84	95.81	95.69	95.91	95.67	40.38	42.34	42.74	43.51	45.24	41.38	41.96	39.28	39.99
00:05:40	97.89	97.34	97.14	97.42	97.09	40.68	42.62	42.94	43.72	45.45	41.62	42.27	39.52	40.27
00:06:00	99.71	99.49	99.24	99.62	99.49	41.12	43.03	43.22	44.02	45.77	41.94	42.71	39.88	40.57
00:06:20	101.58	101.38	101.03	101.43	101.57	41.48	43.36	43.48	44.28	46.03	42.23	43.08	40.18	40.99
00:06:40	103.87	103.71	103.32	103.79	104.18	42.00	43.82	43.73	44.56	46.30	42.53	43.46	40.50	41.33
00:07:00	105.92	105.65	105.26	105.74	105.90	42.47	44.23	44.17	45.01	46.74	43.02	44.06	41.02	41.87
00:07:20	108.21	107.96	107.56	107.65	107.82	42.97	44.65	44.54	45.39	47.10	43.42	44.56	41.44	42.33
00:07:40	107.91	107.61	108.16	107.92	108.68	43.60	45.19	44.98	45.86	47.58	43.93	45.18	41.99	42.78
00:08:00	107.55	107.29	107.67	107.53	108.26	44.17	45.69	45.41	46.31	48.01	44.39	45.74	42.49	43.42
00:08:20	107.29	107.05	107.36	107.22	108.04	44.94	46.37	45.88	46.80	48.48	44.88	46.34	43.03	43.99
00:08:40	107.49	107.26	107.39	107.38	107.82	45.54	46.89	46.47	47.41	49.07	45.49	47.10	43.69	44.69
00:09:00	107.31	107.07	107.41	107.27	107.78	46.22	47.51	47.01	47.97	49.59	46.05	47.77	44.31	45.33
00:09:20	107.32	107.09	107.46	107.31	106.94	47.09	48.28	47.72	48.69	50.29	46.78	48.64	45.09	46.16
00:09:40	107.47	107.27	107.29	107.38	106.86	47.82	48.92	48.31	49.30	50.86	47.39	49.35	45.74	46.84
00:10:00	107.41	107.18	107.47	107.34	106.68	48.75	49.75	49.08	49.93	51.47	48.03	50.09	46.43	47.57
00:10:20	107.26	107.03	107.35	107.21	106.59	49.49	50.41	49.69	50.72	52.23	48.83	51.01	47.28	48.46
00:10:40	107.51	107.30	107.34	107.39	106.73	50.29	51.12	50.38	51.42	52.89	49.53	51.79	48.03	49.23
00:11:00	107.33	107.11	107.41	107.29	106.78	51.28	51.99	51.23	52.27	53.71	50.39	52.76	48.96	50.17
00:11:20	107.35	107.16	107.36	107.31	106.49	52.08	52.70	51.92	52.97	54.38	51.10	53.53	49.70	50.93
00:11:40	107.42	107.23	107.32	107.36	106.49	53.08	53.59	52.78	53.84	55.04	51.81	54.32	50.46	51.70
00:12:00	107.33	107.14	107.39	107.30	106.51	53.92	54.35	53.53	54.59	55.94	52.74	55.32	51.45	52.69
00:12:20	107.22	107.02	107.27	107.17	106.44	54.76	55.08	54.26	55.33	56.64	53.48	56.12	52.24	53.49
00:12:40	107.26	107.06	107.31	107.24	106.28	55.76	55.99	55.15	56.22	57.51	54.39	57.10	53.21	54.47
00:13:00	107.54	107.40	107.37	107.48	106.28	56.59	56.73	55.89	56.97	58.22	55.15	57.91	54.01	55.27
00:13:20	107.33	107.14	107.39	107.31	106.28	57.62	57.66	56.81	57.89	59.12	56.10	58.89	54.79	56.06
00:13:40	107.32	107.13	107.39	107.30	106.42	58.42	58.38	57.54	58.62	59.83	56.83	59.67	55.78	57.03
00:14:00	107.26	107.07	107.33	107.26	106.47	59.46	59.14	58.31	59.38	60.57	57.62	60.48	56.61	57.84
00:14:20	107.51	107.33	107.41	107.47	106.69	60.27	60.03	59.22	60.28	61.43	58.56	61.45	57.59	58.81
00:14:40	107.33	107.08	107.31	107.23	106.59	61.08	60.78	59.96	61.03	62.16	59.31	62.23	58.39	59.60

DATA COLLECTION REPORT

Generated by CALSoft 5.0.5 © 2018 TechniCAL Inc

Date Printed: Thursday, May 31, 2018 9:17:37 pm

FILE NAME : C:\Users\fsjecutivo1\Documents\073-2018 - PUERTOS DEL PACÍFICO\Registros
CalSoft\18051602 (Leads 21-30).chp

TYPE CALIB	THERMOCOUPLES													
	13	14	15	16	17	21	22	23	24	25	26	27	28	30
	FL	FL	FL	FL	FL	TC	TC	TC	TC	TC	TC	TC	TC	TC
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(hh:mm:ss)														
00:15:00	107.27	107.07	107.26	107.23	106.71	62.07	61.68	60.88	61.94	63.05	60.24	63.19	59.37	60.36
00:15:20	107.86	107.74	107.33	107.76	107.52	62.87	62.41	61.63	62.66	63.76	61.00	63.96	60.17	61.34
00:15:40	113.34	113.21	112.80	113.11	112.92	63.79	63.07	62.36	63.36	64.42	61.70	64.69	60.92	62.07
00:16:00	116.04	115.88	115.53	115.84	115.52	64.53	63.93	63.24	64.24	65.28	62.64	65.61	61.89	62.98
00:16:20	116.94	116.67	116.81	117.28	116.87	65.28	64.64	63.97	64.96	65.99	63.38	66.36	62.67	63.74
00:16:40	117.24	117.00	117.37	117.17	116.56	66.25	65.51	64.85	65.83	66.86	64.31	67.27	63.64	64.67
00:17:00	117.49	117.26	117.46	117.41	116.94	67.04	66.23	65.59	66.56	67.58	65.06	68.03	64.42	65.43
00:17:20	117.14	116.86	117.34	117.10	116.56	67.97	67.11	66.46	67.24	68.28	65.81	68.76	65.17	66.17
00:17:40	116.96	116.68	117.17	116.92	116.46	68.75	67.85	67.18	68.12	69.16	66.68	69.69	66.12	67.13
00:18:00	117.04	116.78	117.05	116.95	116.50	69.52	68.60	67.88	68.82	69.89	67.43	70.45	66.89	67.88
00:18:20	116.73	116.46	116.84	116.67	116.13	70.50	69.56	68.79	69.71	70.79	68.34	71.40	67.86	68.86
00:18:40	116.71	116.52	116.63	116.67	116.38	71.29	70.34	69.52	70.41	71.53	69.11	72.17	68.64	69.64
00:19:00	116.56	116.32	116.59	116.52	116.16	72.27	71.31	70.44	71.30	72.27	69.86	72.93	69.42	70.42
00:19:20	116.44	116.18	116.43	116.35	116.02	73.06	72.11	71.19	72.03	73.20	70.82	73.90	70.42	71.41
00:19:40	116.27	116.02	116.42	116.26	116.10	73.83	72.87	71.92	72.74	73.94	71.57	74.66	71.19	72.20
00:20:00	116.35	116.07	116.44	116.28	116.07	74.83	73.84	72.87	73.65	74.88	72.53	75.62	72.18	73.17
00:20:20	116.32	116.04	116.38	116.25	116.08	75.57	74.59	73.58	74.34	75.58	73.28	76.35	72.94	73.93
00:20:40	116.43	116.17	116.41	116.36	116.29	76.52	75.53	74.50	75.22	76.50	74.19	77.09	73.71	74.70
00:21:00	116.32	116.09	116.38	116.29	116.28	77.26	76.27	75.23	75.92	77.22	74.92	78.01	74.66	75.64
00:21:20	116.45	116.18	116.49	116.37	116.28	78.02	76.99	75.96	76.63	77.93	75.67	78.74	75.42	76.39
00:21:40	116.48	116.21	116.49	116.41	116.35	78.92	77.88	76.85	77.49	78.82	76.56	79.61	76.34	77.29
00:22:00	116.41	116.19	116.53	116.41	116.37	79.64	78.58	77.56	78.18	79.51	77.27	80.33	77.09	78.04
00:22:20	116.42	116.13	116.48	116.34	116.36	80.52	79.46	78.43	79.02	80.37	78.15	81.19	78.00	78.74
00:22:40	116.48	116.19	116.54	116.40	116.43	81.21	80.13	79.12	79.68	81.04	78.86	81.87	78.72	79.62
00:23:00	116.48	116.21	116.51	116.41	116.53	82.06	80.79	79.80	80.34	81.71	79.54	82.55	79.43	80.32
00:23:20	116.45	116.18	116.54	116.39	116.54	82.73	81.61	80.63	81.16	82.52	80.38	83.36	80.29	81.16
00:23:40	116.51	116.24	116.46	116.43	116.67	83.38	82.26	81.29	81.79	83.17	81.05	84.01	80.98	81.82
00:24:00	116.47	116.20	116.46	116.39	116.69	84.19	83.04	82.09	82.59	83.97	81.87	84.81	81.82	82.48
00:24:20	116.50	116.23	116.46	116.42	116.77	84.81	83.64	82.71	83.18	84.58	82.51	85.42	82.46	83.27
00:24:40	116.54	116.28	116.52	116.48	116.84	85.57	84.39	83.33	83.79	85.18	83.13	86.03	83.12	83.89
00:25:00	116.53	116.29	116.49	116.47	116.86	86.20	85.00	84.11	84.55	85.94	83.93	86.79	83.93	84.66
00:25:20	116.78	116.52	116.51	116.39	116.86	86.79	85.58	84.71	85.14	86.54	84.54	87.38	84.54	85.28
00:25:40	116.54	116.27	116.50	116.45	116.97	87.52	86.29	85.44	85.86	87.26	85.29	88.09	85.31	86.03
00:26:00	116.64	116.35	116.51	116.54	117.11	88.07	86.82	85.99	86.41	87.79	85.86	88.64	85.89	86.59
00:26:20	116.55	116.28	116.48	116.45	117.02	88.78	87.53	86.71	87.11	88.38	86.47	89.22	86.51	87.18
00:26:40	116.51	116.22	116.46	116.43	117.02	89.34	88.07	87.28	87.67	89.06	87.18	89.90	87.22	87.89
00:27:00	116.58	116.31	116.54	116.50	117.16	89.89	88.62	87.83	88.22	89.61	87.76	90.45	87.81	88.46
00:27:20	116.54	116.26	116.59	116.46	117.04	90.53	89.24	88.48	88.86	90.24	88.43	91.08	88.48	89.12
00:27:40	116.43	116.17	116.41	116.36	116.98	91.05	89.76	89.01	89.38	90.76	88.97	91.61	89.03	89.64
00:28:00	116.41	116.12	116.44	116.36	117.02	91.68	90.38	89.65	90.01	91.39	89.50	92.10	89.57	90.15
00:28:20	116.45	116.18	116.43	116.39	117.04	92.17	90.86	90.15	90.51	91.88	90.14	92.71	90.22	90.79
00:28:40	116.51	116.27	116.46	116.44	117.14	92.68	91.37	90.67	91.02	92.39	90.68	93.22	90.77	91.31
00:29:00	116.50	116.27	116.47	116.46	117.16	93.26	91.93	91.25	91.61	92.96	91.29	93.79	91.37	91.90
00:29:20	116.49	116.23	116.47	116.43	117.18	93.71	92.38	91.72	92.08	93.42	91.77	94.24	91.86	92.38
00:29:40	116.54	116.27	116.57	116.47	117.26	94.28	92.94	92.29	92.65	93.98	92.36	94.80	92.34	92.85
00:30:00	116.48	116.20	116.49	116.41	117.25	94.72	93.38	92.75	93.11	94.43	92.83	95.24	92.93	93.42
00:30:20	116.47	116.19	116.52	116.40	117.25	95.15	93.81	93.19	93.55	94.86	93.30	95.67	93.40	93.87
00:30:40	116.59	116.31	116.52	116.51	117.33	95.68	94.33	93.73	94.09	95.38	93.85	96.21	93.96	94.42
00:31:00	116.47	116.29	116.53	116.49	117.29	96.10	94.74	94.17	94.52	95.80	94.29	96.61	94.41	94.86
00:31:20	116.49	116.21	116.50	116.42	117.22	96.61	95.25	94.69	95.05	96.32	94.84	97.12	94.96	95.27
00:31:40	116.57	116.28	116.50	116.47	117.29	97.02	95.66	95.11	95.47	96.71	95.28	97.52	95.38	95.79
00:32:00	116.40	116.14	116.48	116.37	117.17	97.49	96.04	95.50	95.86	97.09	95.68	97.90	95.79	96.18
00:32:20	116.50	116.23	116.56	116.44	117.25	97.88	96.53	96.01	96.37	97.59	96.19	98.38	96.31	96.69
00:32:40	116.57	116.27	116.54	116.47	117.32	98.23	96.88	96.37	96.73	97.93	96.57	98.74	96.69	97.07

DATA COLLECTION REPORT

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FILE NAME : C:\Users\fsjecutivo1\Documents\073-2018 - PUERTOS DEL PACÍFICO\Registros
CalSoft\18051602 (Leads 21-30).chp

THERMOCOUPLES														
TYPE	13 FL	14 FL	15 FL	16 FL	17 FL	21 TC	22 TC	23 TC	24 TC	25 TC	26 TC	27 TC	28 TC	30 TC
CALIB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(hh:mm:ss)														
00:33:00	116.55	116.26	116.58	116.47	117.34	98.70	97.34	96.84	97.22	98.39	97.07	99.19	97.19	97.53
00:33:20	116.49	116.21	116.48	116.41	117.28	99.06	97.69	97.22	97.59	98.75	97.44	99.55	97.57	97.92
00:33:40	116.42	116.13	116.46	116.34	117.19	99.49	98.13	97.58	97.96	99.10	97.82	99.89	97.94	98.28
00:34:00	116.39	116.12	116.42	116.34	117.20	99.83	98.48	98.01	98.39	99.52	98.27	100.31	98.39	98.72
00:34:20	116.47	116.21	116.41	116.39	117.26	100.15	98.81	98.37	98.74	99.85	98.63	100.64	98.75	99.07
00:34:40	116.45	116.21	116.43	116.41	117.28	100.57	99.23	98.79	99.18	100.26	99.07	101.06	99.19	99.49
00:35:00	116.38	116.14	116.44	116.36	117.27	100.88	99.56	99.13	99.51	100.57	99.41	101.37	99.53	99.83
00:35:20	116.53	116.29	116.51	116.49	117.44	101.27	99.95	99.53	99.91	100.89	99.75	101.68	99.87	100.17
00:35:40	116.53	116.26	116.54	116.49	117.49	101.57	100.26	99.85	100.23	101.26	100.15	102.06	100.27	100.55
00:36:00	116.56	116.28	116.57	116.48	117.52	101.88	100.57	100.17	100.56	101.57	100.48	102.36	100.60	100.88
00:36:20	116.46	116.19	116.51	116.42	117.46	102.22	100.92	100.53	100.92	101.91	100.85	102.69	100.97	101.24
00:36:40	116.56	116.29	116.52	116.49	117.54	102.51	101.21	100.83	101.22	102.19	101.16	102.98	101.28	101.55
00:37:00	116.58	116.31	116.56	116.52	117.56	102.84	101.56	101.19	101.58	102.54	101.46	103.26	101.58	101.83
00:37:20	116.51	116.27	116.49	116.46	117.55	103.12	101.84	101.48	101.88	102.81	101.83	103.59	101.94	102.19
00:37:40	116.54	116.26	116.54	116.47	117.44	103.38	102.11	101.76	102.15	103.07	102.12	103.84	102.22	102.47
00:38:00	116.53	116.26	116.58	116.48	117.04	103.70	102.44	102.09	102.49	103.39	102.46	104.17	102.57	102.81
00:38:20	116.52	116.24	116.52	116.45	116.91	103.95	102.69	102.36	102.76	103.64	102.73	104.43	102.84	103.08
00:38:40	116.50	116.24	116.43	116.43	116.93	104.26	103.03	102.69	103.09	103.96	103.01	104.67	103.11	103.34
00:39:00	116.58	116.31	116.50	116.50	116.97	104.51	103.27	102.95	103.34	104.19	103.33	104.97	103.43	103.66
00:39:20	116.52	116.28	116.55	116.49	116.99	104.74	103.51	103.19	103.59	104.42	103.58	105.19	103.69	103.90
00:39:40	116.51	116.25	116.51	116.46	116.97	105.02	103.79	103.49	103.89	104.71	103.89	105.47	104.00	104.20
00:40:00	116.52	116.25	116.50	116.44	116.96	105.25	104.03	103.73	104.13	104.93	104.13	105.71	104.24	104.44
00:40:20	116.49	116.23	116.47	116.45	116.96	105.52	104.32	104.03	104.42	105.21	104.43	105.91	104.48	104.67
00:40:40	116.47	116.20	116.44	116.41	116.97	105.75	104.55	104.26	104.66	105.43	104.67	106.18	104.77	104.97
00:41:00	116.48	116.26	116.38	116.43	116.94	105.95	104.76	104.48	104.89	105.64	104.89	106.39	105.01	105.19
00:41:20	116.44	116.22	116.44	116.43	116.90	106.22	105.04	104.76	105.17	105.91	105.18	106.65	105.29	105.47
00:41:40	116.42	116.18	116.42	116.39	116.84	106.41	105.24	104.98	105.38	106.11	105.40	106.84	105.49	105.68
00:42:00	116.58	116.34	116.53	116.54	116.99	106.67	105.52	105.26	105.65	106.36	105.68	107.10	105.78	105.89
00:42:20	116.56	116.30	116.61	116.53	117.00	106.84	105.69	105.43	105.83	106.53	105.87	107.28	105.97	106.14
00:42:40	116.54	116.29	116.55	116.53	116.98	107.03	105.90	105.64	106.05	106.73	106.08	107.47	106.17	106.34
00:43:00	116.47	116.20	116.48	116.46	116.93	107.27	106.15	105.89	106.30	106.96	106.34	107.69	106.43	106.59
00:43:20	116.72	116.46	116.51	116.45	116.94	107.44	106.32	106.08	106.48	107.14	106.52	107.86	106.62	106.78
00:43:40	116.57	116.29	116.52	116.51	117.14	107.68	106.58	106.34	106.74	107.37	106.78	108.09	106.87	106.96
00:44:00	116.70	116.42	116.55	116.59	117.24	107.83	106.73	106.51	106.90	107.52	106.95	108.24	107.04	107.19
00:44:20	116.55	116.28	116.47	116.47	117.14	108.03	106.96	106.68	107.08	107.69	107.13	108.41	107.22	107.37
00:44:40	116.52	116.24	116.49	116.46	117.13	108.20	107.13	106.91	107.31	107.89	107.36	108.61	107.45	107.59
00:45:00	116.44	116.18	116.47	116.44	117.09	108.36	107.29	107.07	107.47	108.05	107.53	108.76	107.62	107.76
00:45:20	116.48	116.24	116.46	116.46	117.12	108.56	107.51	107.28	107.69	108.26	107.74	108.95	107.82	107.92
00:45:40	116.56	116.29	116.54	116.51	117.09	108.70	107.66	107.46	107.85	108.40	107.91	109.10	107.99	108.13
00:46:00	116.58	116.32	116.56	116.53	117.13	108.88	107.86	107.65	108.01	108.54	108.08	109.26	108.16	108.29
00:46:20	116.69	116.43	116.60	116.62	117.18	109.03	108.01	107.81	108.20	108.73	108.27	109.42	108.35	108.49
00:46:40	116.59	116.31	116.59	116.54	117.17	109.18	108.16	107.97	108.37	108.88	108.44	109.57	108.51	108.64
00:47:00	116.46	116.17	116.47	116.41	116.92	109.35	108.34	108.15	108.55	109.05	108.63	109.73	108.70	108.82
00:47:20	116.59	116.31	116.54	116.53	117.05	109.51	108.51	108.33	108.72	109.21	108.80	109.89	108.87	108.99
00:47:40	116.46	116.18	116.48	116.42	116.91	109.65	108.67	108.49	108.86	109.34	108.94	110.02	109.01	109.13
00:48:00	116.63	116.40	116.58	116.61	117.11	109.78	108.81	108.63	109.02	109.48	109.11	110.16	109.17	109.29
00:48:20	116.48	116.23	116.48	116.46	116.98	109.91	108.94	108.77	109.16	109.61	109.24	110.28	109.31	109.43
00:48:40	116.49	116.19	116.51	116.43	116.96	110.06	109.11	108.94	109.33	109.78	109.42	110.43	109.49	109.59
00:49:00	116.59	116.32	116.52	116.53	117.09	110.18	109.25	109.07	109.45	109.90	109.55	110.55	109.61	109.72
00:49:20	116.48	116.21	116.47	116.43	116.97	110.34	109.41	109.24	109.63	110.05	109.71	110.70	109.72	109.83
00:49:40	116.44	116.19	116.42	116.41	116.95	110.44	109.52	109.36	109.73	110.14	109.83	110.79	109.88	109.99
00:50:00	116.46	116.22	116.42	116.41	116.95	110.56	109.65	109.49	109.87	110.27	109.97	110.91	110.02	110.13
00:50:20	116.40	116.16	116.40	116.39	116.94	110.68	109.79	109.63	110.01	110.39	110.11	111.04	110.16	110.26
00:50:40	116.44	116.21	116.44	116.44	117.03	110.81	109.91	109.77	110.14	110.52	110.24	111.16	110.29	110.39

DATA COLLECTION REPORT

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FILE NAME : C:\Users\fsjecutivo1\Documents\073-2018 - PUERTOS DEL PACÍFICO\Registros
CalSoft\18051602 (Leads 21-30).chp

TYPE CALIB	THERMOCOUPLES													
	13	14	15	16	17	21	22	23	24	25	26	27	28	30
	FL	FL	FL	FL	FL	TC	TC	TC	TC	TC	TC	TC	TC	TC
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(hh:mm:ss)														
00:51:00	116.49	116.27	116.49	116.48	117.02	110.94	110.05	109.91	110.28	110.65	110.38	111.28	110.43	110.51
00:51:20	116.55	116.30	116.54	116.51	117.14	111.04	110.17	110.02	110.39	110.74	110.50	111.38	110.56	110.65
00:51:40	116.47	116.21	116.49	116.44	117.06	111.17	110.28	110.14	110.51	110.85	110.62	111.48	110.66	110.76
00:52:00	116.61	116.34	116.58	116.55	117.14	111.27	110.42	110.28	110.64	110.98	110.76	111.60	110.80	110.89
00:52:20	116.65	116.30	116.53	116.52	117.08	111.36	110.51	110.38	110.74	111.08	110.86	111.69	110.90	110.99
00:52:40	116.50	116.23	116.48	116.46	116.99	111.48	110.64	110.51	110.87	111.20	110.99	111.81	111.04	111.09
00:53:00	116.48	116.21	116.48	116.44	116.93	111.58	110.76	110.62	110.99	111.31	111.11	111.91	111.15	111.23
00:53:20	116.66	116.42	116.58	116.61	117.14	111.67	110.86	110.71	111.06	111.37	111.19	111.97	111.23	111.31
00:53:40	116.65	116.38	116.58	116.59	117.11	111.77	110.97	110.84	111.19	111.49	111.32	112.09	111.36	111.44
00:54:00	116.61	116.34	116.60	116.67	117.18	111.86	111.06	110.93	111.29	111.57	111.42	112.18	111.45	111.53
00:54:20	116.64	116.37	116.52	116.57	117.10	111.97	111.18	111.06	111.41	111.68	111.54	112.28	111.57	111.62
00:54:40	116.41	116.12	116.43	116.37	116.88	112.05	111.27	111.14	111.49	111.77	111.63	112.36	111.66	111.73
00:55:00	116.42	116.14	116.44	116.38	116.89	112.13	111.36	111.24	111.57	111.84	111.71	112.42	111.74	111.81
00:55:20	116.49	116.21	116.48	116.42	116.97	112.24	111.48	111.36	111.70	111.96	111.84	112.54	111.88	111.94
00:55:40	116.63	116.37	116.57	116.59	116.89	112.31	111.55	111.43	111.77	112.02	111.91	112.59	111.94	112.01
00:56:00	116.49	116.22	116.43	116.42	116.98	112.39	111.65	111.53	111.88	112.12	112.02	112.68	112.04	112.11
00:56:20	116.46	116.20	116.44	116.43	116.94	112.47	111.73	111.62	111.96	112.19	112.11	112.75	112.13	112.19
00:56:40	116.43	116.18	116.41	116.41	116.88	112.58	111.86	111.74	112.03	112.27	112.18	112.83	112.21	112.26
00:57:00	116.40	116.18	116.37	116.38	116.84	112.63	111.91	111.79	112.13	112.35	112.27	112.91	112.30	112.37
00:57:20	116.39	116.17	116.39	116.39	116.83	112.69	111.98	111.87	112.21	112.43	112.36	112.98	112.38	112.44
00:57:40	116.46	116.24	116.43	116.46	116.96	112.79	112.08	111.98	112.31	112.52	112.46	113.06	112.47	112.54
00:58:00	116.52	116.28	116.49	116.51	117.01	112.85	112.16	112.04	112.38	112.58	112.53	113.13	112.55	112.60
00:58:20	116.54	116.29	116.55	116.52	117.03	112.94	112.25	112.15	112.47	112.66	112.62	113.18	112.63	112.68
00:58:40	116.46	116.22	116.47	116.46	116.97	112.99	112.32	112.22	112.54	112.73	112.69	113.25	112.71	112.77
00:59:00	116.50	116.20	116.49	116.43	116.98	113.06	112.39	112.28	112.61	112.79	112.77	113.32	112.78	112.83
00:59:20	116.54	116.29	116.51	116.51	117.04	113.12	112.47	112.37	112.69	112.86	112.84	113.39	112.86	112.91
00:59:40	116.64	116.20	116.47	116.44	116.96	113.19	112.53	112.43	112.75	112.92	112.91	113.46	112.92	112.98
01:00:00	116.69	116.46	116.60	116.65	117.22	113.25	112.61	112.52	112.83	112.99	112.99	113.51	113.01	113.04
01:00:20	116.62	116.35	116.54	116.56	117.11	113.32	112.67	112.58	112.91	113.06	113.07	113.57	113.08	113.12
01:00:40	116.57	116.29	116.57	116.53	117.06	113.36	112.73	112.64	112.94	113.10	113.12	113.61	113.12	113.17
01:01:00	116.57	116.31	116.54	116.53	117.06	113.43	112.81	112.72	113.02	113.18	113.19	113.68	113.21	113.26
01:01:20	116.51	116.28	116.56	116.50	117.03	113.49	112.87	112.78	113.08	113.24	113.26	113.74	113.27	113.31
01:01:40	116.61	116.36	116.56	116.58	117.16	113.56	112.95	112.86	113.16	113.29	113.33	113.79	113.34	113.37
01:02:00	116.70	116.46	116.63	116.67	117.19	113.62	113.02	112.92	113.22	113.36	113.40	113.86	113.40	113.45
01:02:20	116.52	116.31	116.50	116.51	117.06	113.66	113.05	112.97	113.27	113.40	113.44	113.89	113.44	113.49
01:02:40	116.47	116.21	116.44	116.42	116.94	113.71	113.12	113.03	113.32	113.46	113.50	113.93	113.51	113.56
01:03:00	116.39	116.17	116.39	116.37	116.89	113.76	113.18	113.10	113.39	113.51	113.57	113.99	113.57	113.62
01:03:20	116.39	116.17	116.37	116.37	116.91	113.82	113.24	113.16	113.46	113.57	113.62	114.04	113.63	113.66
01:03:40	116.38	116.16	116.38	116.37	116.89	113.86	113.29	113.22	113.50	113.62	113.67	114.09	113.68	113.72
01:04:00	116.42	116.21	116.42	116.42	116.97	113.91	113.36	113.27	113.54	113.66	113.72	114.12	113.72	113.77
01:04:20	116.47	116.25	116.47	116.46	117.01	113.96	113.42	113.33	113.61	113.72	113.79	114.18	113.79	113.84
01:04:40	116.52	116.29	116.50	116.50	117.08	113.99	113.46	113.37	113.66	113.76	113.83	114.22	113.84	113.88
01:05:00	116.71	116.48	116.64	116.69	117.27	114.06	113.53	113.46	113.73	113.82	113.91	114.27	113.91	113.94
01:05:20	116.52	116.28	116.49	116.46	117.11	114.09	113.57	113.49	113.76	113.86	113.95	114.32	113.95	113.98
01:05:40	116.64	116.39	116.57	116.59	117.22	114.13	113.63	113.55	113.79	113.88	113.98	114.33	113.97	114.01
01:06:00	116.58	116.31	116.50	116.51	117.16	114.19	113.67	113.60	113.87	113.96	114.06	114.39	114.04	114.09
01:06:20	116.56	116.29	116.54	116.51	117.24	114.22	113.71	113.63	113.89	113.98	114.08	114.42	114.07	114.12
01:06:40	116.54	116.27	116.49	116.47	117.12	114.24	113.74	113.67	113.93	114.01	114.12	114.44	114.11	114.14
01:07:00	116.61	116.33	116.56	116.55	117.20	114.30	113.81	113.73	113.99	114.07	114.19	114.51	114.18	114.22
01:07:20	116.59	116.37	116.48	116.53	117.20	114.34	113.86	113.78	114.04	114.12	114.24	114.54	114.22	114.26
01:07:40	116.42	116.13	116.43	116.36	116.97	114.37	113.88	113.82	114.06	114.14	114.26	114.57	114.26	114.29
01:08:00	116.48	116.21	116.48	116.43	117.05	114.39	113.92	113.85	114.09	114.17	114.30	114.59	114.29	114.33
01:08:20	116.55	116.27	116.53	116.48	117.13	114.43	113.97	113.91	114.14	114.22	114.36	114.63	114.34	114.37
01:08:40	116.42	116.14	116.39	116.37	116.98	114.47	114.02	113.95	114.19	114.27	114.39	114.67	114.38	114.42

DATA COLLECTION REPORT

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Date Printed: Thursday, May 31, 2018 9:17:37 pm

FILE NAME : C:\Users\fsjecutivo1\Documents\073-2018 - PUERTOS DEL PACÍFICO\Registros
CalSoft\18051602 (Leads 21-30).chp

THERMOCOUPLES														
TYPE	13 FL	14 FL	15 FL	16 FL	17 FL	21 TC	22 TC	23 TC	24 TC	25 TC	26 TC	27 TC	28 TC	30 TC
CALIB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(hh:mm:ss)														
01:09:00	116.63	116.34	116.54	116.55	117.20	114.53	114.08	114.01	114.26	114.31	114.43	114.71	114.41	114.45
01:09:20	116.59	116.33	116.51	116.53	117.21	114.56	114.11	114.04	114.28	114.35	114.48	114.76	114.47	114.50
01:09:40	116.54	116.26	116.52	116.47	117.12	114.58	114.13	114.07	114.31	114.38	114.52	114.78	114.50	114.54
01:10:00	116.53	116.29	116.51	116.49	117.16	114.61	114.17	114.11	114.34	114.40	114.55	114.81	114.53	114.57
01:10:20	116.42	116.22	116.48	116.44	117.07	114.65	114.21	114.15	114.39	114.44	114.59	114.84	114.57	114.60
01:10:40	116.41	116.16	116.42	116.38	117.00	114.68	114.26	114.19	114.42	114.48	114.63	114.87	114.60	114.64
01:11:00	116.52	116.29	116.48	116.49	117.13	114.71	114.29	114.23	114.46	114.50	114.67	114.89	114.65	114.67
01:11:20	116.51	116.28	116.48	116.47	117.16	114.74	114.32	114.27	114.48	114.53	114.69	114.93	114.67	114.71
01:11:40	116.50	116.26	116.47	116.47	117.14	114.77	114.35	114.29	114.52	114.56	114.72	114.95	114.71	114.73
01:12:00	116.48	116.27	116.51	116.52	117.21	114.78	114.38	114.33	114.54	114.59	114.75	114.98	114.73	114.76
01:12:20	116.52	116.28	116.49	116.47	117.18	114.82	114.43	114.37	114.58	114.63	114.80	115.01	114.78	114.79
01:12:40	116.63	116.38	116.53	116.57	117.28	114.85	114.46	114.41	114.62	114.66	114.83	115.04	114.81	114.84
01:13:00	116.49	116.24	116.50	116.46	117.13	114.88	114.50	114.44	114.65	114.69	114.87	115.07	114.84	114.88
01:13:20	116.53	116.29	116.49	116.51	117.21	114.92	114.53	114.48	114.69	114.72	114.89	115.09	114.88	114.92
01:13:40	116.50	116.25	116.58	116.59	117.30	114.94	114.56	114.50	114.71	114.74	114.92	115.12	114.91	114.93
01:14:00	116.53	116.26	116.52	116.48	117.16	114.96	114.59	114.54	114.74	114.78	114.96	115.13	114.93	114.96
01:14:20	116.61	116.37	116.57	116.57	117.26	114.99	114.62	114.57	114.77	114.80	114.98	115.16	114.96	114.99
01:14:40	116.59	116.36	116.57	116.55	117.23	115.01	114.65	114.59	114.79	114.83	115.01	115.18	114.98	115.02
01:15:00	116.49	116.21	116.43	116.42	117.16	115.04	114.68	114.63	114.82	114.86	115.04	115.21	115.02	115.05
01:15:20	116.48	116.22	116.52	116.51	117.23	115.07	114.72	114.67	114.86	114.88	115.08	115.23	115.05	115.08
01:15:40	116.52	116.28	116.51	116.49	117.17	115.08	114.73	114.67	114.87	114.90	115.09	115.24	115.07	115.09
01:16:00	116.54	116.33	116.52	116.53	117.25	115.10	114.76	114.72	114.90	114.93	115.12	115.26	115.09	115.12
01:16:20	116.58	116.33	116.59	116.56	117.18	115.12	114.78	114.74	114.93	114.97	115.16	115.30	115.13	115.16
01:16:40	116.54	116.27	116.52	116.49	117.11	115.14	114.81	114.76	114.94	114.96	115.16	115.30	115.14	115.17
01:17:00	116.84	116.60	116.66	116.75	117.04	115.16	114.84	114.78	114.97	114.99	115.19	115.33	115.16	115.19
01:17:20	116.45	116.15	116.45	116.38	117.02	115.19	114.86	114.82	114.99	115.02	115.21	115.33	115.18	115.21
01:17:40	116.53	116.28	116.49	116.49	117.14	115.21	114.89	114.84	115.02	115.03	115.24	115.36	115.22	115.23
01:18:00	116.48	116.23	116.46	116.43	117.07	115.22	114.92	114.86	115.03	115.05	115.26	115.38	115.24	115.26
01:18:20	116.46	116.21	116.45	116.43	117.07	115.24	114.94	114.89	115.06	115.08	115.29	115.40	115.26	115.28
01:18:40	116.54	116.32	116.52	116.53	117.16	115.27	114.97	114.93	115.10	115.12	115.32	115.43	115.29	115.31
01:19:00	116.46	116.22	116.46	116.43	117.04	115.27	114.98	114.93	115.10	115.12	115.32	115.43	115.30	115.33
01:19:20	116.55	116.28	116.52	116.47	117.15	115.29	115.01	114.97	115.12	115.14	115.35	115.45	115.32	115.34
01:19:40	116.54	116.28	116.53	116.50	117.15	115.31	115.02	114.98	115.14	115.16	115.37	115.47	115.34	115.37
01:20:00	116.57	116.33	116.53	116.53	117.19	115.33	115.05	115.01	115.17	115.18	115.39	115.49	115.37	115.38
01:20:20	116.55	116.30	116.56	116.53	117.18	115.34	115.06	115.02	115.18	115.19	115.41	115.49	115.39	115.40
01:20:40	116.52	116.23	116.50	116.46	117.11	115.36	115.09	115.04	115.20	115.22	115.43	115.52	115.40	115.42
01:21:00	116.53	116.24	116.49	116.45	117.13	115.37	115.11	115.07	115.21	115.23	115.45	115.52	115.41	115.44
01:21:20	116.47	116.22	116.48	116.44	117.10	115.37	115.11	115.06	115.22	115.23	115.45	115.53	115.42	115.44
01:21:40	116.42	116.16	116.43	116.38	117.03	115.41	115.14	115.11	115.26	115.27	115.48	115.56	115.46	115.48
01:22:00	116.47	116.25	116.48	116.46	117.13	115.42	115.16	115.11	115.26	115.28	115.49	115.57	115.47	115.49
01:22:20	116.43	116.23	116.47	116.45	117.11	115.46	115.21	115.16	115.31	115.31	115.53	115.61	115.51	115.53
01:22:40	116.45	116.34	116.53	116.54	117.14	115.44	115.19	115.16	115.31	115.31	115.53	115.59	115.51	115.52
01:23:00	116.42	116.16	116.47	116.39	117.03	115.48	115.23	115.19	115.33	115.34	115.56	115.62	115.53	115.54
01:23:20	116.53	116.27	116.52	116.49	117.18	115.47	115.23	115.19	115.34	115.34	115.57	115.63	115.54	115.56
01:23:40	116.51	116.22	116.51	116.45	117.08	115.49	115.24	115.21	115.34	115.36	115.58	115.63	115.56	115.57
01:24:00	116.57	116.29	116.53	116.51	117.15	115.51	115.27	115.23	115.37	115.38	115.60	115.66	115.57	115.60
01:24:20	116.54	116.27	116.61	116.58	117.25	115.51	115.27	115.23	115.37	115.38	115.61	115.66	115.58	115.59
01:24:40	116.53	116.27	116.48	116.47	117.11	115.53	115.31	115.27	115.40	115.41	115.63	115.68	115.61	115.62
01:25:00	116.49	116.21	116.46	116.42	117.04	115.55	115.33	115.29	115.42	115.44	115.66	115.70	115.63	115.66
01:25:20	116.43	116.19	116.43	116.43	117.06	115.56	115.33	115.30	115.43	115.44	115.66	115.70	115.63	115.66
01:25:40	116.48	116.24	116.46	116.45	117.06	115.57	115.36	115.32	115.45	115.46	115.68	115.72	115.66	115.67
01:26:00	116.41	116.17	116.44	116.43	117.04	115.57	115.36	115.32	115.45	115.46	115.68	115.72	115.66	115.67
01:26:20	116.46	116.23	116.46	116.44	117.04	115.59	115.38	115.36	115.47	115.48	115.71	115.74	115.68	115.70
01:26:40	116.57	116.32	116.51	116.52	117.16	115.61	115.39	115.37	115.49	115.49	115.72	115.75	115.69	115.70

DATA COLLECTION REPORT

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FILE NAME : C:\Users\fsjecutivo1\Documents\073-2018 - PUERTOS DEL PACÍFICO\Registros
CalSoft\18051602 (Leads 21-30).chp

THERMOCOUPLES														
TYPE	13 FL	14 FL	15 FL	16 FL	17 FL	21 TC	22 TC	23 TC	24 TC	25 TC	26 TC	27 TC	28 TC	30 TC
CALIB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(hh:mm:ss)														
01:27:00	116.56	116.31	116.52	116.52	117.13	115.61	115.41	115.37	115.49	115.51	115.73	115.75	115.70	115.72
01:27:20	116.56	116.32	116.53	116.54	117.16	115.62	115.41	115.38	115.50	115.51	115.74	115.76	115.70	115.73
01:27:40	116.67	116.45	116.59	116.63	117.15	115.63	115.44	115.41	115.52	115.53	115.76	115.77	115.73	115.74
01:28:00	116.68	116.42	116.65	116.63	117.27	115.64	115.45	115.42	115.53	115.54	115.77	115.78	115.74	115.76
01:28:20	116.64	116.41	116.53	116.57	117.26	115.64	115.46	115.43	115.54	115.55	115.78	115.79	115.75	115.77
01:28:40	116.62	116.34	116.53	116.54	117.19	115.66	115.48	115.45	115.56	115.56	115.79	115.80	115.76	115.78
01:29:00	116.73	116.48	116.68	116.69	117.36	115.67	115.49	115.46	115.56	115.57	115.80	115.81	115.77	115.79
01:29:20	116.63	116.37	116.55	116.57	117.24	115.68	115.50	115.47	115.57	115.58	115.81	115.81	115.78	115.80
01:29:40	116.63	116.36	116.57	116.57	117.23	115.69	115.51	115.48	115.59	115.60	115.82	115.82	115.79	115.81
01:30:00	116.63	116.36	116.56	116.57	117.22	115.71	115.53	115.51	115.61	115.62	115.84	115.84	115.83	115.83
01:30:20	116.51	116.23	116.52	116.46	117.11	115.72	115.54	115.51	115.62	115.62	115.84	115.84	115.82	115.84
01:30:40	116.76	116.51	116.62	116.67	117.35	115.72	115.55	115.52	115.62	115.63	115.86	115.85	115.83	115.84
01:31:00	116.63	116.38	116.56	116.59	117.31	115.72	115.56	115.53	115.63	115.64	115.86	115.86	115.83	115.84
01:31:20	116.52	116.23	116.49	116.44	117.11	115.73	115.56	115.54	115.63	115.64	115.88	115.87	115.84	115.86
01:31:40	116.58	116.32	116.52	116.52	117.16	115.73	115.58	115.54	115.64	115.66	115.88	115.87	115.86	115.87
01:32:00	116.41	116.14	116.44	116.38	117.06	115.76	115.59	115.57	115.67	115.67	115.89	115.88	115.87	115.88
01:32:20	116.54	116.28	116.48	116.48	117.13	115.76	115.59	115.57	115.67	115.67	115.91	115.88	115.88	115.89
01:32:40	116.46	116.22	116.45	116.45	117.09	115.76	115.61	115.58	115.67	115.69	115.92	115.91	115.89	115.90
01:33:00	116.45	116.22	116.43	116.42	116.97	115.78	115.62	115.59	115.69	115.70	115.93	115.92	115.90	115.92
01:33:20	116.47	116.26	116.44	116.44	117.00	115.77	115.63	115.60	115.71	115.71	115.93	115.92	115.91	115.92
01:33:40	116.53	116.29	116.49	116.50	117.12	115.79	115.64	115.62	115.71	115.71	115.94	115.92	115.91	115.93
01:34:00	116.46	116.21	116.46	116.43	117.02	115.81	115.66	115.63	115.73	115.73	115.96	115.93	115.93	115.94
01:34:20	116.44	116.18	116.47	116.41	117.01	115.81	115.66	115.64	115.72	115.73	115.96	115.94	115.94	115.95
01:34:40	116.51	116.23	116.50	116.44	117.11	115.81	115.67	115.65	115.73	115.73	115.97	115.94	115.94	115.96
01:35:00	116.53	116.24	116.51	116.46	117.14	115.82	115.68	115.66	115.74	115.74	115.98	115.95	115.94	115.97
01:35:20	116.68	116.39	116.64	116.60	117.30	115.82	115.68	115.66	115.74	115.75	115.97	115.95	115.96	115.96
01:35:40	116.56	116.27	116.46	116.46	117.14	115.83	115.70	115.68	115.76	115.76	115.99	115.96	115.97	115.98
01:36:00	116.62	116.34	116.54	116.55	117.23	115.83	115.70	115.68	115.76	115.77	116.00	115.96	115.97	115.99
01:36:20	116.53	116.27	116.50	116.47	117.13	115.85	115.72	115.69	115.77	115.77	116.01	115.98	115.97	116.00
01:36:40	116.53	116.27	116.47	116.46	117.11	115.84	115.72	115.69	115.77	115.78	116.02	115.97	115.98	116.00
01:37:00	116.48	116.23	116.46	116.44	117.11	115.84	115.72	115.71	115.78	115.78	116.02	115.97	115.98	116.01
01:37:20	116.48	116.23	116.45	116.43	117.08	115.86	115.74	115.72	115.79	115.79	116.03	115.98	116.00	116.02
01:37:40	116.54	116.28	116.49	116.48	117.14	115.86	115.74	115.71	115.78	115.78	116.01	115.97	115.98	116.01
01:38:00	116.47	116.19	116.49	116.43	117.06	115.87	115.75	115.73	115.81	115.81	116.04	116.00	116.01	116.04
01:38:20	116.55	116.27	116.52	116.53	117.22	115.87	115.75	115.73	115.79	115.81	116.04	115.99	116.01	116.03
01:38:40	116.56	116.28	116.53	116.49	117.17	115.88	115.77	115.76	115.82	115.83	116.06	116.01	116.02	116.04
01:39:00	116.71	116.44	116.57	116.62	117.32	115.88	115.78	115.76	115.83	115.83	116.07	116.01	116.03	116.06
01:39:20	116.62	116.37	116.55	116.56	117.18	115.90	115.78	115.76	115.83	115.83	116.07	116.01	116.03	116.05
01:39:40	116.59	116.34	116.54	116.55	117.19	115.89	115.78	115.77	115.83	115.83	116.07	116.02	116.04	116.07
01:40:00	116.57	116.27	116.57	116.49	117.28	115.89	115.79	115.78	115.84	115.84	116.07	116.01	116.04	116.07
01:40:20	116.65	116.36	116.62	116.58	117.24	115.92	115.81	115.80	115.85	115.86	116.10	116.03	116.07	116.08
01:40:40	116.68	116.38	116.62	116.60	117.26	115.92	115.82	115.79	115.86	115.87	116.11	116.04	116.07	116.09
01:41:00	116.53	116.24	116.50	116.46	117.13	115.90	115.80	115.78	115.84	115.86	116.08	116.03	116.05	116.07
01:41:20	116.50	116.20	116.49	116.43	117.09	115.92	115.82	115.80	115.86	115.87	116.10	116.04	116.07	116.09
01:41:40	116.53	116.26	116.48	116.46	117.16	115.93	115.83	115.82	115.87	115.88	116.11	116.05	116.08	116.10
01:42:00	116.48	116.21	116.44	116.42	117.09	115.93	115.83	115.82	115.87	115.88	116.11	116.04	116.07	116.09
01:42:20	116.45	116.17	116.44	116.41	117.06	115.93	115.84	115.83	115.88	115.88	116.12	116.05	116.08	116.11
01:42:40	116.47	116.23	116.46	116.44	117.12	115.93	115.84	115.83	115.88	115.89	116.12	116.05	116.11	116.12
01:43:00	116.40	116.14	116.41	116.37	117.07	115.93	115.84	115.83	115.88	115.88	116.12	116.05	116.08	116.11
01:43:20	116.48	116.24	116.48	116.47	117.13	115.94	115.85	115.84	115.89	115.89	116.13	116.07	116.09	116.12
01:43:40	116.48	116.24	116.48	116.47	117.17	115.94	115.86	115.84	115.90	115.89	116.14	116.06	116.10	116.13
01:44:00	116.42	116.15	116.41	116.37	117.06	115.94	115.87	115.84	115.90	115.91	116.14	116.07	116.10	116.12
01:44:20	116.45	116.16	116.44	116.39	117.10	115.95	115.86	115.86	115.91	115.91	116.14	116.07	116.12	116.13
01:44:40	116.71	116.43	116.59	116.62	117.34	115.97	115.89	115.88	115.93	115.93	116.15	116.09	116.13	116.16

DATA COLLECTION REPORT

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CalSoft\18051602 (Leads 21-30).chp

THERMOCOUPLES														
TYPE	13 FL	14 FL	15 FL	16 FL	17 FL	21 TC	22 TC	23 TC	24 TC	25 TC	26 TC	27 TC	28 TC	30 TC
CALIB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(hh:mm:ss)														
01:45:00	116.63	116.33	116.59	116.57	117.30	115.97	115.88	115.86	115.91	115.92	116.14	116.08	116.12	116.14
01:45:20	116.59	116.32	116.56	116.55	117.28	115.97	115.89	115.88	115.93	115.92	116.16	116.09	116.13	116.16
01:45:40	116.68	116.39	116.61	116.65	117.43	115.97	115.89	115.89	115.94	115.94	116.17	116.09	116.14	116.16
01:46:00	116.58	116.30	116.54	116.53	117.26	115.98	115.91	115.89	115.94	115.94	116.16	116.09	116.14	116.16
01:46:20	116.54	116.24	116.54	116.47	117.18	115.98	115.91	115.89	115.94	115.95	116.17	116.10	116.14	116.17
01:46:40	116.48	116.18	116.46	116.43	117.12	115.97	115.90	115.89	115.93	115.93	116.16	116.08	116.14	116.15
01:47:00	116.54	116.26	116.49	116.48	117.18	115.98	115.91	115.89	115.94	115.94	116.17	116.09	116.14	116.16
01:47:20	116.48	116.22	116.46	116.42	116.99	115.98	115.91	115.89	115.94	115.94	116.17	116.09	116.14	116.17
01:47:40	116.47	116.23	116.46	116.46	117.08	116.00	115.93	115.92	115.96	115.97	116.19	116.12	116.17	116.18
01:48:00	116.44	116.20	116.42	116.42	117.07	115.98	115.91	115.89	115.94	115.94	116.17	116.09	116.14	116.16
01:48:20	116.47	116.26	116.48	116.49	117.16	116.00	115.93	115.93	115.94	115.94	116.17	116.09	116.14	116.16
01:48:40	116.54	116.32	116.52	116.52	117.21	115.99	115.93	115.92	115.96	115.96	116.18	116.11	116.17	116.18
01:49:00	116.82	116.58	116.65	116.74	117.08	115.99	115.92	115.92	115.95	115.96	116.18	116.10	116.16	116.17
01:49:20	116.46	116.14	116.42	116.40	117.08	115.98	115.93	115.91	115.96	115.96	116.18	116.10	116.16	116.17
01:49:40	116.44	116.16	116.44	116.40	117.04	115.99	115.93	115.92	115.96	115.96	116.19	116.12	116.17	116.18
01:50:00	116.66	116.38	116.57	116.58	117.27	116.02	115.97	115.96	115.99	115.99	116.22	116.14	116.19	116.21
01:50:20	116.69	116.41	116.63	116.63	117.28	116.03	115.96	115.96	115.99	115.99	116.22	116.14	116.19	116.21
01:50:40	116.52	116.23	116.49	116.47	117.11	116.01	115.94	115.94	115.98	115.98	116.21	116.13	116.18	116.20
01:51:00	116.56	116.27	116.53	116.50	117.09	116.01	115.94	115.94	115.98	115.97	116.21	116.12	116.18	116.19
01:51:20	116.57	116.27	116.53	116.52	117.14	116.01	115.95	115.95	115.97	115.99	116.21	116.12	116.19	116.20
01:51:40	116.64	116.37	116.58	116.58	117.22	116.02	115.96	115.95	115.99	115.99	116.21	116.13	116.19	116.21
01:52:00	116.73	116.46	116.57	116.64	117.30	116.01	115.96	115.95	115.98	115.98	116.22	116.12	116.18	116.21
01:52:20	116.48	116.18	116.45	116.42	117.02	116.02	115.97	115.95	115.99	116.00	116.23	116.13	116.20	116.21
01:52:40	116.42	116.13	116.42	116.36	116.98	116.03	115.97	115.97	116.00	116.01	116.24	116.14	116.21	116.23
01:53:00	116.42	116.16	116.41	116.41	117.04	116.03	115.98	115.98	116.01	116.01	116.24	116.15	116.22	116.24
01:53:20	116.42	116.16	116.41	116.39	117.01	116.03	115.99	115.98	116.01	116.02	116.24	116.15	116.22	116.23
01:53:40	116.46	116.22	116.43	116.43	117.01	116.03	115.99	115.98	116.01	116.02	116.24	116.15	116.21	116.23
01:54:00	116.51	116.27	116.48	116.49	117.07	116.03	115.99	115.98	116.01	116.01	116.23	116.14	116.22	116.23
01:54:20	116.59	116.35	116.57	116.57	117.15	116.02	115.98	115.97	116.00	115.99	116.22	116.14	116.21	116.23
01:54:40	116.66	116.37	116.61	116.59	117.17	116.04	116.01	115.99	116.03	116.03	116.25	116.17	116.23	116.24
01:55:00	116.49	116.21	116.49	116.44	116.99	116.04	116.01	116.00	116.02	116.03	116.26	116.13	116.21	116.22
01:55:20	116.58	116.29	116.59	116.54	117.14	116.05	116.02	116.01	116.02	116.04	116.27	116.18	116.23	116.26
01:55:40	116.53	116.25	116.51	116.48	117.11	116.05	116.01	116.00	116.03	116.03	116.26	116.17	116.24	116.25
01:56:00	116.44	116.13	116.46	116.39	117.01	116.04	115.99	115.99	116.02	116.03	116.24	116.16	116.23	116.24
01:56:20	116.45	116.13	116.46	116.40	117.02	116.03	116.00	115.99	116.02	116.02	116.25	116.16	116.22	116.24
01:56:40	116.71	116.42	116.56	116.62	117.30	116.03	115.99	115.99	116.01	116.02	116.24	116.15	116.23	116.24
01:57:00	116.50	116.17	116.47	116.42	117.06	116.06	116.02	116.01	116.03	116.03	116.27	116.17	116.24	116.26
01:57:20	116.65	116.32	116.56	116.58	117.22	116.04	116.01	116.01	116.03	116.03	116.26	116.17	116.24	116.26
01:57:40	116.59	116.27	116.58	116.54	117.16	116.06	116.01	116.01	116.03	116.04	116.27	116.17	116.25	116.26
01:58:00	116.54	116.22	116.49	116.47	117.10	116.06	116.02	116.01	116.03	116.04	116.27	116.17	116.24	116.26
01:58:20	116.51	116.21	116.48	116.47	117.09	116.07	116.04	116.02	116.04	116.06	116.28	116.18	116.26	116.27
01:58:40	116.49	116.21	116.49	116.47	117.11	116.06	116.03	116.02	116.04	116.04	116.27	116.17	116.25	116.26
01:59:00	116.50	116.23	116.50	116.49	117.11	116.06	116.03	116.02	116.05	116.06	116.27	116.18	116.26	116.27
01:59:20	116.43	116.14	116.45	116.41	117.04	116.04	116.02	116.01	116.03	116.04	116.26	116.17	116.25	116.26
01:59:40	116.61	116.32	116.44	116.42	117.07	116.06	116.03	116.02	116.04	116.05	116.27	116.18	116.26	116.27
02:00:00	116.75	116.43	116.67	116.68	117.32	116.06	116.02	116.02	116.04	116.04	116.27	116.17	116.26	116.26
02:00:20	116.68	116.37	116.56	116.62	117.29	116.06	116.03	116.03	116.04	116.06	116.28	116.18	116.26	116.27
02:00:40	116.51	116.17	116.46	116.43	117.10	116.06	116.03	116.03	116.04	116.05	116.28	116.18	116.26	116.27
02:01:00	116.48	116.17	116.46	116.44	117.12	116.06	116.03	116.03	116.05	116.05	116.27	116.17	116.26	116.27
02:01:20	116.47	116.18	116.44	116.41	117.06	116.06	116.03	116.03	116.05	116.06	116.28	116.17	116.26	116.27
02:01:40	116.48	116.20	116.46	116.45	117.07	116.07	116.03	116.04	116.06	116.06	116.29	116.18	116.27	116.28
02:02:00	116.44	116.17	116.44	116.42	117.04	116.06	116.03	116.04	116.05	116.06	116.28	116.18	116.26	116.27
02:02:20	116.43	116.17	116.44	116.43	117.11	116.06	116.04	116.04	116.06	116.06	116.28	116.19	116.26	116.28
02:02:40	116.53	116.27	116.49	116.51	117.14	116.07	116.04	116.04	116.05	116.06	116.29	116.19	116.27	116.28

DATA COLLECTION REPORT

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CalSoft\18051602 (Leads 21-30).chp

THERMOCOUPLES														
TYPE	13 FL	14 FL	15 FL	16 FL	17 FL	21 TC	22 TC	23 TC	24 TC	25 TC	26 TC	27 TC	28 TC	30 TC
CALIB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(hh:mm:ss)														
02:03:00	116.49	116.19	116.48	116.44	117.18	116.07	116.05	116.04	116.06	116.06	116.29	116.18	116.27	116.28
02:03:20	116.51	116.18	116.48	116.45	117.03	116.07	116.04	116.04	116.06	116.06	116.29	116.18	116.27	116.28
02:03:40	116.56	116.25	116.52	116.51	117.13	116.07	116.05	116.04	116.06	116.07	116.29	116.19	116.27	116.28
02:04:00	116.61	116.35	116.54	116.59	117.29	116.07	116.05	116.04	116.06	116.06	116.29	116.18	116.27	116.28
02:04:20	116.50	116.21	116.48	116.46	117.10	116.07	116.05	116.04	116.06	116.06	116.29	116.18	116.27	116.28
02:04:40	116.56	116.23	116.53	116.48	117.11	116.08	116.06	116.07	116.07	116.08	116.31	116.20	116.29	116.30
02:05:00	116.51	116.19	116.52	116.46	117.10	116.07	116.04	116.05	116.06	116.06	116.29	116.19	116.27	116.28
02:05:20	116.58	116.27	116.51	116.52	117.17	116.08	116.06	116.06	116.07	116.07	116.30	116.21	116.29	116.29
02:05:40	116.53	116.19	116.50	116.46	117.08	116.08	116.07	116.06	116.08	116.08	116.31	116.21	116.29	116.31
02:06:00	116.50	116.22	116.50	116.48	117.10	116.08	116.06	116.05	116.07	116.07	116.31	116.21	116.27	116.29
02:06:20	116.46	116.18	116.44	116.44	117.02	116.08	116.05	116.05	116.06	116.08	116.31	116.20	116.28	116.29
02:06:40	116.49	116.20	116.45	116.45	117.06	116.08	116.06	116.07	116.07	116.07	116.31	116.21	116.29	116.29
02:07:00	116.51	116.21	116.47	116.47	117.06	116.08	116.07	116.06	116.07	116.08	116.31	116.20	116.28	116.29
02:07:20	116.52	116.23	116.49	116.49	117.11	116.08	116.07	116.07	116.08	116.08	116.31	116.21	116.29	116.29
02:07:40	116.51	116.23	116.51	116.51	117.14	116.08	116.07	116.07	116.08	116.08	116.31	116.21	116.29	116.30
02:08:00	116.60	116.26	116.59	116.56	117.24	116.09	116.07	116.07	116.07	116.08	116.31	116.20	116.29	116.29
02:08:20	116.64	116.33	116.57	116.59	117.27	116.08	116.07	116.08	116.08	116.08	116.32	116.21	116.29	116.31
02:08:40	116.51	116.32	116.63	116.57	117.26	116.08	116.07	116.07	116.07	116.08	116.31	116.19	116.28	116.30
02:09:00	116.62	116.31	116.60	116.56	117.24	116.08	116.07	116.07	116.08	116.08	116.32	116.20	116.29	116.31
02:09:20	116.59	116.26	116.54	116.53	117.21	116.08	116.07	116.08	116.08	116.09	116.32	116.21	116.29	116.31
02:09:40	116.47	116.14	116.43	116.41	116.95	116.08	116.09	116.09	116.10	116.11	116.34	116.23	116.31	116.33
02:10:00	116.56	116.24	116.51	116.51	116.98	116.09	116.08	116.08	116.09	116.09	116.32	116.22	116.31	116.32
02:10:20	116.51	116.18	116.54	116.54	117.02	116.08	116.07	116.07	116.08	116.08	116.31	116.20	116.29	116.29
02:10:40	116.51	116.18	116.49	116.46	116.91	116.09	116.08	116.08	116.09	116.11	116.33	116.21	116.31	116.30
02:11:00	116.48	116.20	116.48	116.47	116.89	116.08	116.07	116.07	116.07	116.08	116.32	116.19	116.30	116.30
02:11:20	116.52	116.23	116.51	116.49	116.93	116.08	116.07	116.07	116.08	116.08	116.31	116.20	116.29	116.29
02:11:40	116.47	116.20	116.49	116.48	116.91	116.11	116.09	116.09	116.09	116.11	116.33	116.22	116.32	116.32
02:12:00	116.48	116.21	116.49	116.48	116.91	116.09	116.08	116.08	116.08	116.09	116.33	116.21	116.29	116.31
02:12:20	116.51	116.24	116.53	116.52	116.96	116.11	116.09	116.09	116.11	116.11	116.34	116.23	116.31	116.32
02:12:40	116.64	116.35	116.62	116.62	117.08	116.11	116.10	116.09	116.11	116.11	116.34	116.22	116.31	116.32
02:13:00	116.63	116.33	116.58	116.59	117.09	116.11	116.09	116.09	116.10	116.11	116.34	116.22	116.31	116.31
02:13:20	116.61	116.28	116.53	116.54	117.06	116.10	116.09	116.09	116.09	116.11	116.33	116.22	116.32	116.32
02:13:40	116.37	116.04	116.34	116.33	116.86	116.10	116.09	116.09	116.10	116.11	116.33	116.22	116.31	116.32
02:14:00	116.34	116.01	116.33	116.28	116.81	116.09	116.08	116.08	116.09	116.09	116.32	116.21	116.30	116.31
02:14:20	116.39	116.07	116.30	116.32	116.85	116.08	116.08	116.07	116.08	116.09	116.32	116.21	116.29	116.29
02:14:40	116.34	116.02	116.29	116.27	116.81	116.09	116.08	116.08	116.09	116.11	116.34	116.23	116.32	116.33
02:15:00	116.33	116.01	116.26	116.27	116.79	116.11	116.11	116.10	116.11	116.11	116.34	116.23	116.32	116.32
02:15:20	116.26	115.91	116.24	116.20	116.72	116.10	116.09	116.09	116.09	116.10	116.33	116.22	116.32	116.31
02:15:40	116.31	115.97	116.28	116.26	116.75	116.11	116.10	116.10	116.11	116.11	116.34	116.23	116.32	116.32
02:16:00	116.27	115.93	116.23	116.22	116.68	116.11	116.11	116.11	116.10	116.11	116.34	116.22	116.32	116.32
02:16:20	116.27	115.94	116.22	116.21	116.66	116.09	116.09	116.08	116.09	116.10	116.34	116.22	116.32	116.32
02:16:40	116.35	116.02	116.32	116.30	116.73	116.11	116.11	116.11	116.11	116.12	116.34	116.23	116.33	116.33
02:17:00	116.31	115.98	116.28	116.27	116.68	116.11	116.10	116.10	116.09	116.12	116.34	116.23	116.33	116.32
02:17:20	116.29	115.97	116.28	116.26	116.67	116.11	116.11	116.09	116.09	116.12	116.34	116.23	116.32	116.32
02:17:40	116.33	116.01	116.28	116.28	116.68	116.11	116.10	116.10	116.10	116.12	116.34	116.23	116.32	116.32
02:18:00	116.32	115.98	116.28	116.26	116.64	116.09	116.08	116.08	116.08	116.10	116.32	116.20	116.31	116.29
02:18:20	116.29	115.97	116.28	116.24	116.61	116.10	116.09	116.08	116.08	116.10	116.33	116.22	116.31	116.31
02:18:40	116.31	115.99	116.29	116.26	116.61	116.11	116.10	116.09	116.09	116.11	116.33	116.21	116.32	116.31
02:19:00	116.38	116.07	116.34	116.33	116.63	116.10	116.10	116.10	116.10	116.11	116.34	116.22	116.32	116.32
02:19:20	116.36	116.06	116.36	116.33	116.61	116.09	116.09	116.09	116.09	116.11	116.33	116.22	116.32	116.31
02:19:40	116.39	116.07	116.36	116.33	116.62	116.08	116.07	116.08	116.07	116.08	116.31	116.19	116.30	116.29
02:20:00	116.41	116.08	116.38	116.34	116.60	116.10	116.11	116.10	116.10	116.11	116.33	116.22	116.32	116.32
02:20:20	116.41	116.08	116.37	116.35	116.59	116.09	116.09	116.08	116.07	116.09	116.32	116.21	116.31	116.29
02:20:40	116.42	116.08	116.38	116.35	116.57	116.08	116.09	116.09	116.08	116.09	116.32	116.21	116.31	116.29

DATA COLLECTION REPORT

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FILE NAME : C:\Users\fsejecutivo1\Documents\073-2018 - PUERTOS DEL PACÍFICO\Registros
CalSoft\18051602 (Leads 21-30).chp

THERMOCOUPLES														
TYPE	13 FL	14 FL	15 FL	16 FL	17 FL	21 TC	22 TC	23 TC	24 TC	25 TC	26 TC	27 TC	28 TC	30 TC
CALIB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(hh:mm:ss)														
02:21:00	116.57	116.22	116.50	116.48	116.71	116.09	116.09	116.08	116.08	116.09	116.31	116.19	116.31	116.29
02:21:20	116.69	116.37	116.63	116.62	116.84	116.08	116.08	116.08	116.07	116.08	116.31	116.20	116.29	116.30
02:21:40	116.73	116.40	116.71	116.67	116.88	116.10	116.10	116.09	116.09	116.11	116.33	116.23	116.32	116.32
02:22:00	116.78	116.46	116.72	116.71	116.91	116.06	116.06	116.08	116.08	116.09	116.32	116.21	116.31	116.30
02:22:20	116.68	116.33	116.64	116.60	116.78	116.07	116.08	116.07	116.07	116.08	116.30	116.19	116.30	116.27
02:22:40	116.66	116.32	116.62	116.59	116.77	116.08	116.08	116.08	116.07	116.09	116.31	116.20	116.29	116.28
02:23:00	116.66	116.33	116.62	116.58	116.73	116.08	116.09	116.08	116.08	116.10	116.31	116.21	116.31	116.29
02:23:20	116.51	116.19	116.50	116.46	116.61	116.06	116.06	116.06	116.06	116.07	116.28	116.18	116.26	116.27
02:23:40	116.48	116.16	116.45	116.43	116.56	116.07	116.07	116.08	116.07	116.08	116.30	116.19	116.28	116.29
02:24:00	116.49	116.16	116.46	116.41	116.54	116.07	116.08	116.08	116.07	116.08	116.30	116.19	116.28	116.28
02:24:20	116.51	116.19	116.48	116.49	116.63	116.07	116.07	116.07	116.07	116.08	116.29	116.20	116.27	116.29
02:24:40	116.65	116.32	116.53	116.56	116.70	116.07	116.08	116.08	116.07	116.08	116.29	116.20	116.27	116.29
02:25:00	116.50	116.14	116.43	116.39	116.53	116.07	116.07	116.08	116.07	116.07	116.29	116.19	116.27	116.28
02:25:20	116.48	116.12	116.44	116.39	116.51	116.08	116.08	116.08	116.07	116.08	116.29	116.19	116.27	116.28
02:25:40	116.51	116.18	116.48	116.44	116.59	116.08	116.08	116.08	116.08	116.09	116.29	116.20	116.28	116.29
02:26:00	116.49	116.22	116.48	116.41	116.57	116.07	116.07	116.07	116.07	116.08	116.29	116.19	116.28	116.28
02:26:20	116.55	116.22	116.48	116.48	116.64	116.07	116.07	116.07	116.07	116.07	116.28	116.18	116.27	116.28
02:26:40	116.61	116.32	116.55	116.56	116.76	116.07	116.07	116.08	116.07	116.07	116.28	116.18	116.27	116.27
02:27:00	116.54	116.20	116.50	116.46	116.64	116.07	116.08	116.08	116.07	116.07	116.29	116.19	116.28	116.27
02:27:20	116.58	116.26	116.57	116.52	116.73	116.07	116.08	116.08	116.07	116.07	116.29	116.19	116.28	116.28
02:27:40	116.85	116.53	116.68	116.76	116.65	116.07	116.08	116.08	116.08	116.08	116.30	116.20	116.28	116.28
02:28:00	116.49	116.16	116.48	116.42	116.64	116.08	116.08	116.09	116.08	116.08	116.30	116.20	116.28	116.28
02:28:20	116.50	116.17	116.48	116.44	116.69	116.08	116.08	116.09	116.08	116.08	116.31	116.21	116.29	116.30
02:28:40	116.41	116.06	116.41	116.34	116.57	116.07	116.08	116.08	116.08	116.08	116.30	116.21	116.28	116.29
02:29:00	116.58	116.24	116.48	116.52	116.79	116.07	116.08	116.08	116.08	116.09	116.31	116.19	116.29	116.29
02:29:00	Time Entered Cooling													
02:29:20	112.63	110.27	112.84	110.78	114.16	116.08	116.08	116.08	116.08	116.09	116.31	116.14	116.24	116.26
02:29:40	111.11	106.48	110.27	108.67	114.57	116.10	116.08	116.08	116.09	116.08	116.35	116.14	116.17	116.27
02:30:00	98.70	98.17	107.86	103.49	106.77	116.16	116.12	116.13	116.10	116.08	116.42	116.36	116.28	116.33
02:30:20	93.45	89.76	99.49	93.39	92.41	116.14	116.27	116.33	116.29	116.19	116.72	116.39	116.48	116.34
02:30:40	88.17	87.54	94.64	88.98	85.32	116.12	116.29	116.32	116.33	116.12	116.62	116.28	116.46	116.38
02:31:00	82.71	80.52	85.14	83.85	74.94	116.04	116.18	116.27	116.25	115.93	116.39	116.17	116.43	116.33
02:31:20	79.93	76.72	73.26	78.65	65.83	115.94	115.97	116.18	116.16	115.45	116.13	115.92	116.26	116.15
02:31:40	78.71	75.24	76.74	78.66	70.04	115.84	115.75	116.10	116.03	115.08	115.98	115.69	116.09	115.93
02:32:00	76.09	68.88	71.67	75.21	64.22	115.53	115.19	115.82	115.61	114.36	115.69	115.18	115.74	115.49
02:32:20	72.28	60.68	60.78	67.41	52.22	115.18	114.63	115.52	115.14	113.72	115.34	114.67	115.39	114.88
02:32:40	70.07	63.33	54.80	65.81	53.96	114.66	114.09	115.15	114.68	113.11	114.89	114.08	114.93	114.33
02:33:00	66.16	60.81	50.89	64.88	52.27	114.16	113.29	114.61	113.98	112.28	114.24	113.21	114.26	113.49
02:33:20	64.93	54.39	49.82	62.83	51.08	113.59	112.58	114.09	113.33	111.58	113.66	112.44	113.66	112.69
02:33:40	63.59	48.69	52.81	60.47	49.04	112.68	111.58	113.34	112.41	110.62	112.83	111.38	112.78	111.84
02:34:00	59.59	48.41	42.27	57.84	46.28	111.86	110.71	112.64	111.61	109.79	112.09	110.47	111.99	110.67
02:34:20	58.65	45.86	38.48	56.03	43.78	110.74	109.60	111.93	110.77	108.98	111.30	109.49	111.18	109.67
02:34:40	56.85	41.47	39.42	53.98	41.06	109.74	108.68	110.98	109.71	107.95	110.20	108.23	110.09	108.38
02:35:00	51.61	41.58	38.58	52.23	39.78	108.74	107.74	110.18	108.82	107.14	109.28	107.18	109.18	107.32
02:35:20	50.89	41.34	38.21	51.38	39.14	107.45	106.53	109.12	107.69	106.07	108.07	105.85	108.02	105.99
02:35:40	49.68	38.52	37.33	49.84	37.99	106.39	105.54	108.25	106.78	105.22	107.07	104.72	107.06	104.91
02:36:00	47.34	38.35	38.34	48.12	37.33	105.04	104.34	107.17	105.87	104.41	106.05	103.65	106.08	103.85
02:36:20	45.83	36.57	36.19	47.41	36.23	103.94	103.36	106.28	104.72	103.33	104.73	102.27	104.90	102.50
02:36:40	44.47	35.54	35.14	46.46	36.01	102.84	102.37	105.36	103.78	102.43	103.64	101.15	103.91	101.43
02:37:00	44.06	34.79	33.84	45.48	34.71	101.49	101.16	104.24	102.65	101.34	102.28	99.78	102.71	100.15
02:37:20	43.48	34.14	34.08	44.26	34.11	100.37	100.18	103.33	101.73	100.46	101.18	98.67	101.71	99.11
02:37:40	40.27	34.61	32.89	43.32	33.22	98.99	98.96	102.20	100.58	99.59	100.08	97.59	100.72	98.11
02:38:00	38.73	34.74	32.72	42.42	32.66	97.88	97.98	101.27	99.66	98.50	98.69	96.24	99.49	96.86
02:38:20	37.64	33.03	31.73	40.71	31.27	96.78	97.01	100.37	98.75	97.63	97.61	95.16	98.51	95.88

DATA COLLECTION REPORT

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CalSoft\18051602 (Leads 21-30).chp

THERMOCOUPLES														
TYPE	13 FL	14 FL	15 FL	16 FL	17 FL	21 TC	22 TC	23 TC	24 TC	25 TC	26 TC	27 TC	28 TC	30 TC
CALIB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(hh:mm:ss)														
02:38:40	36.76	33.39	30.93	39.24	30.13	95.42	95.82	99.22	97.62	96.57	96.23	93.84	97.29	94.70
02:39:00	35.67	33.02	30.76	38.18	29.35	94.38	94.90	98.36	96.77	95.77	95.18	92.74	96.37	93.79
02:39:20	33.84	30.82	29.57	37.07	28.97	93.04	93.72	97.23	95.65	94.72	93.82	91.47	95.37	92.84
02:39:40	33.58	30.33	29.41	35.94	28.34	91.98	92.79	96.33	94.78	93.91	92.76	90.47	94.18	91.68
02:40:00	32.31	29.56	28.90	35.34	28.26	90.70	91.90	95.48	93.94	93.13	91.72	89.51	93.27	90.79
02:40:20	30.28	29.54	29.02	34.71	29.64	89.67	90.82	94.37	92.85	92.13	90.41	88.21	92.10	89.64
02:40:40	36.34	30.40	37.41	34.43	37.26	88.62	89.93	93.54	92.03	91.38	89.37	87.23	91.16	88.75
02:41:00	38.87	37.06	37.55	34.98	39.14	87.37	88.84	92.48	91.01	90.45	88.10	86.22	90.03	87.86
02:41:20	39.13	38.37	37.43	38.62	40.04	86.36	87.96	91.63	90.19	89.67	87.08	85.06	89.12	86.78
02:41:40	39.21	38.12	36.49	38.78	39.36	85.36	87.08	90.81	89.39	88.92	86.09	84.29	88.25	85.94
02:42:00	37.42	37.82	37.27	38.45	39.11	84.18	86.06	89.78	88.39	87.97	84.87	83.16	87.17	84.92
02:42:20	37.30	37.21	37.45	37.53	38.16	83.23	85.22	88.96	87.59	87.21	83.92	82.28	86.33	84.09
02:42:40	37.39	36.67	36.41	37.03	35.62	82.08	84.18	87.93	86.61	86.24	82.76	81.19	85.27	83.27
02:43:00	37.31	36.21	36.16	36.26	34.89	81.11	83.27	87.11	85.77	85.19	81.82	80.33	84.43	82.18
02:43:20	36.89	36.06	35.76	35.76	34.28	80.02	82.41	86.29	84.97	84.26	80.89	79.49	83.58	81.34
02:43:40	36.67	35.91	35.41	35.39	34.07	79.17	81.44	85.31	83.99	83.30	79.80	78.52	82.58	80.38
02:44:00	36.39	35.52	35.13	35.29	33.77	78.33	80.62	84.51	83.20	82.53	78.92	77.73	81.77	79.59
02:44:20	36.32	35.82	35.66	35.65	34.92	77.29	79.53	83.52	82.20	81.51	77.84	76.72	80.75	78.81
02:44:40	36.38	35.74	36.18	36.14	35.36	76.47	78.75	82.72	81.41	80.74	77.00	75.94	79.95	77.84
02:45:00	36.16	35.97	35.81	36.20	34.99	75.47	77.77	81.74	80.63	79.99	76.18	75.18	79.17	77.09
02:45:20	36.04	35.46	35.52	35.89	34.80	74.71	77.01	80.98	79.68	79.09	75.19	74.25	78.21	76.16
02:45:40	35.88	36.19	35.44	36.26	34.87	73.95	76.28	80.23	78.94	78.39	74.42	73.53	77.44	75.43
02:46:00	36.16	36.39	35.80	36.41	35.22	73.04	75.39	79.33	78.04	77.53	73.51	72.66	76.53	74.56
02:46:20	36.38	36.57	36.03	36.65	35.78	72.32	74.69	78.61	77.32	76.86	72.76	71.96	75.81	73.87
02:46:40	36.74	36.96	36.27	36.83	36.17	71.45	73.86	77.73	76.64	76.21	72.05	71.27	75.11	73.19
02:47:00	37.36	37.38	36.66	36.62	36.32	70.76	73.19	77.02	75.76	75.39	71.17	70.42	74.23	72.36
02:47:20	37.38	37.06	36.89	36.54	36.61	70.10	72.57	76.36	75.09	74.76	70.52	69.78	73.55	71.71
02:47:40	37.52	36.90	37.09	36.48	36.37	69.29	71.81	75.53	74.28	73.97	69.71	68.99	72.73	70.92
02:48:00	37.70	36.97	37.37	36.51	36.13	68.67	71.21	74.89	73.63	73.36	69.08	68.39	72.08	70.31
02:48:20	37.73	36.86	37.21	36.73	36.06	67.91	70.51	74.09	72.84	72.73	68.45	67.77	71.44	69.69
02:48:40	37.73	36.77	37.07	36.78	36.07	67.33	69.96	73.49	72.23	72.03	67.73	67.07	70.70	69.01
02:49:00	37.73	36.72	36.96	36.73	36.12	66.76	69.41	72.88	71.62	71.46	67.15	66.56	70.09	68.46
02:49:20	37.79	36.67	36.91	36.83	36.11	66.06	68.76	72.15	70.88	70.77	66.47	65.90	69.37	67.81
02:49:40	37.81	36.70	36.88	36.84	36.13	65.54	68.26	71.58	70.31	70.25	65.94	65.38	68.82	67.31
02:50:00	37.83	36.68	36.87	36.78	36.14	64.91	67.66	70.89	69.62	69.74	65.43	64.88	68.28	66.83
02:50:20	37.83	36.64	36.87	36.74	36.08	64.42	67.19	70.36	69.08	69.12	64.82	64.28	67.63	66.26
02:50:40	37.84	36.66	36.88	36.86	36.08	63.95	66.74	69.83	68.56	68.64	64.34	63.82	67.13	65.82
02:51:00	37.83	36.69	36.87	36.79	36.06	63.39	66.19	69.20	67.94	68.06	63.78	63.27	66.53	65.29

Cooling F:	1.59	1.51	1.74	1.62	1.38	1.70	1.50	1.69	1.55
Heating F:	27.24	26.13	25.97	26.50	26.75	27.89	28.19	27.77	27.90
Total F:	28.83	27.64	27.71	28.12	28.13	29.59	29.69	29.46	29.46

The General Method F values listed above are calculated in CALSoft using the Trapezoidal Method with the factors z= 10 and Tref=121.11.

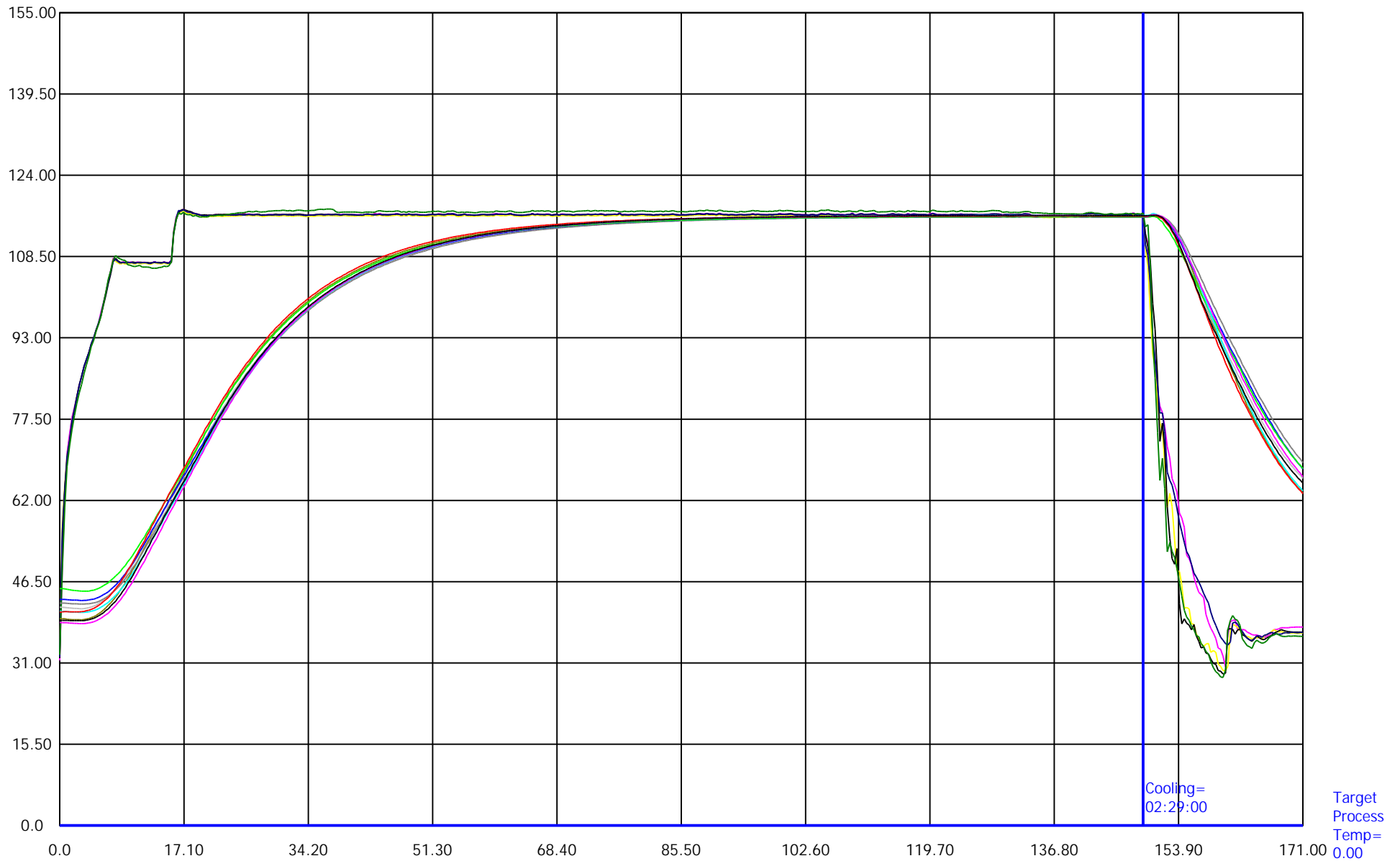
ZOOM HEAT PENETRATION

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Screen Name: Heat Penetration Original Screen Thursday, May 31, 2018 9:20 PM

Leads Plotted: 13 14 15 16 17 21 22 23 24 25 26 27 28 30



ACCUMULATED F

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Date Printed: Thursday, May 31, 2018 9:16:35 pm

PRODUCT : FILETE, SÓLIDO O LOMO DE ATÚN EN ACEITE DE OLIVA
CONTAINER : Can-1/2 Lb-307 x 109
RETORT : Batch-Horizontal-Steam-CUSTOM DESIGN
PROCESSOR : PUERTOS DEL PACIFICO
LOCATION : CALLAO
OTHER INFO : 21-30: LOMO DE ATÚN EN ACEITE DE OLIVA
13-17: CABLES LIBRES
CALSOFT FILE : C:\Users\fsjecutivo1\Documents\073-2018 - PUERTOS DEL PACÍFICO\Registros
CalSoft\18051602 (Leads 21-30).chp

z Value : 10.00 deg. C
Reference Temp : 121.11 deg. C
RT : 115.00 deg. C
Come-Up Time : 00:16:00 minutes
Heating Time (including CUT) : 02:29:00 minutes

Sorted by Total F Ascending

	Lead Type	IT (deg C)	Heating F (min)	Cooling F (min)	Total F (min)
22	TC	41.61	26.13	1.51	27.64
23	TC	42.41	25.97	1.74	27.71
24	TC	43.10	26.50	1.62	28.12
25	TC	45.18	26.75	1.38	28.13
21	TC	39.43	27.24	1.59	28.83
30	TC	39.11	27.90	1.55	29.46
28	TC	38.72	27.77	1.69	29.46
26	TC	40.86	27.89	1.70	29.59
27	TC	40.72	28.19	1.50	29.69
14	Free	32.13	43.88	0.20	44.08
16	Free	32.19	46.19	0.23	46.41
15	Free	31.92	46.43	0.27	46.70
13	Free	31.49	46.71	0.26	46.97
17	Free	32.53	52.25	0.34	52.59

Values of 999.00 indicate that the F value is greater than 1000.

The General Method Estimated Process Times include the Test Come-Up Time.

The General Method F values listed above are calculated in CALSoft using the Trapezoidal Method with the factors z= 10.00 deg. C and Tref=121.11 deg. C.