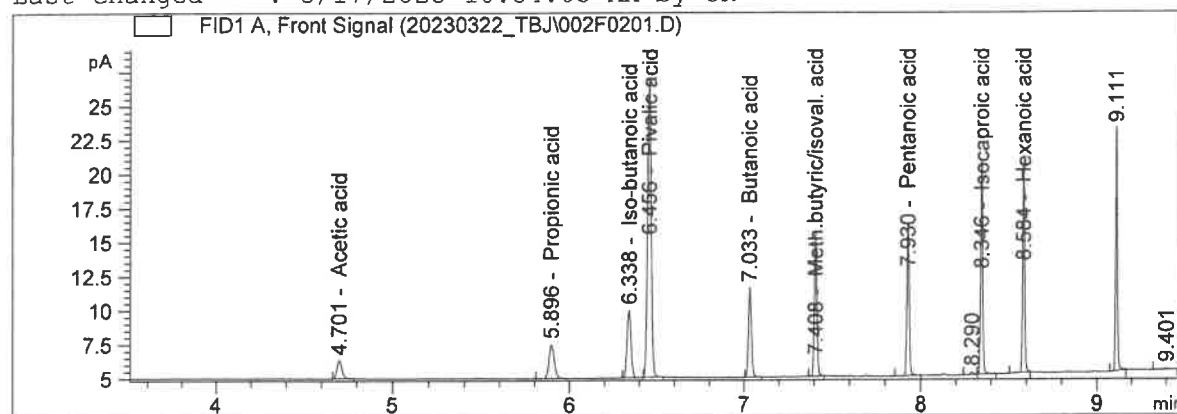


Sample Name: CONTROL

```
=====
Acq. Operator   : CR                               Seq. Line :    2
Acq. Instrument : Instrument 1                     Location  : Vial 2
Injection Date  : 3/22/2023 9:31:40 AM             Inj       :    1
                                                    Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\DATA\2022\20230322_TBJ.S
Method          : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M
Last changed    : 3/17/2023 10:54:05 AM by CR
=====
```



```
=====
Internal Standard Report
=====
```

```
Sorted By      : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
# [mg/L]
```

```
-----|-----|-----
1      1.00000 Pivalic acid
```

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.701	BB	1	2.68895	1775.54233	149.28406		Acetic acid
5.896	BB	1	5.18214	1095.96416	177.58476		Propionic acid
6.338	BB	1	8.02294	857.55402	215.12703		Iso-butanoic acid
6.456	BB +I	1	31.98158	1.00000	1.00000		Pivalic acid
7.033	BB	1	7.89387	864.71042	213.43261		Butanoic acid
7.408	BV	1	10.58427	763.24064	252.59361		Meth.butyric/isoval. acid
7.930	BB	1	10.34067	770.02283	248.97306		Pentanoic acid
8.346	VB	1	12.63540	731.43728	288.97882		Isocaproic acid
8.584	BB	1	12.43425	749.43689	291.37672		Hexanoic acid

Totals without ISTD(s) : 1837.35068

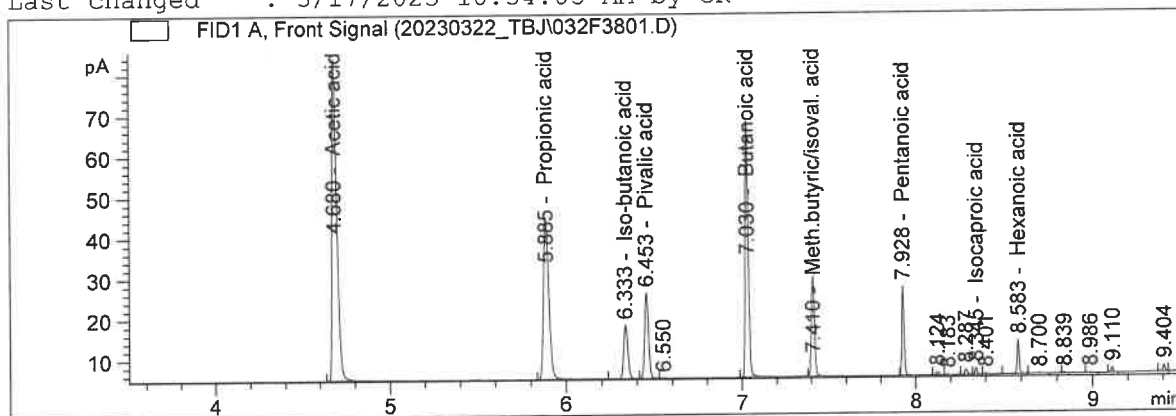
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
```

=====

Acq. Operator : CR	Seq. Line : 38
Acq. Instrument : Instrument 1	Location : Vial 32
Injection Date : 3/22/2023 8:43:08 PM	Inj : 1
	Inj Volume : 1 µl
Sequence File : C:\CHEM32\1\DATA\2022\20230322_TBJ.S	
Method : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M	
Last changed : 3/17/2023 10:54:05 AM by CR	



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]
-----|-----|-----
1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.680	BB	1	151.33963	1825.28867	8667.10441		Acetic acid
5.885	BB	1	83.58315	1106.21677	2901.00709		Propionic acid
6.333	BV	1	21.57398	861.96555	583.45842		Iso-butanoic acid
6.453	VV +I	1	31.87206	1.00000	1.00000		Pivalic acid
7.030	BB	1	76.60204	870.86560	2093.05815		Butanoic acid
7.410	VB	1	30.66302	770.89916	741.65571		Meth.butyric/isoval. acid
7.928	BB	1	20.13625	775.29320	489.81748		Pentanoic acid
8.345	VV	1	1.46757	605.47181	27.87936		Isocaproic acid
8.583	BV	1	6.94916	734.14886	160.06864		Hexanoic acid

Totals without ISTD(s) : 1.56640e4

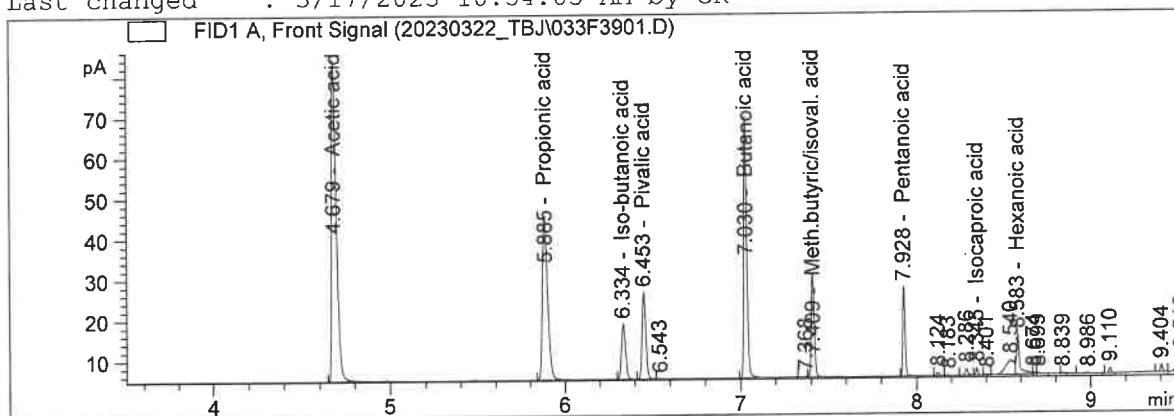
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: CR	Seq. Line	: 39
Acq. Instrument	: Instrument 1	Location	: Vial 33
Injection Date	: 3/22/2023 8:59:54 PM	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\CHEM32\1\DATA\2022\20230322_TBJ.S		
Method	: C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M		
Last changed	: 3/17/2023 10:54:05 AM by CR		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]
-----|-----|-----
1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.679	BB	1	152.64914	1825.29836	8761.88232		Acetic acid
5.885	BB	1	84.16531	1106.22295	2927.82424		Propionic acid
6.334	BV	1	21.68414	861.98457	587.77478		Iso-butyric acid
6.453	VV +I	1	31.80027	1.00000	1.00000		Pivalic acid
7.030	BB	1	77.23221	870.87292	2115.05874		Butanoic acid
7.409	VB	1	30.88854	770.93746	748.83434		Meth.butyric/isoval. acid
7.928	BB	1	20.34778	775.36295	496.12514		Pentanoic acid
8.345	VV	1	1.45232	604.29928	27.59842		Isocaproic acid
8.583	VV	1	12.86778	750.20148	303.56444		Hexanoic acid

Totals without ISTD(s) : 1.59687e4

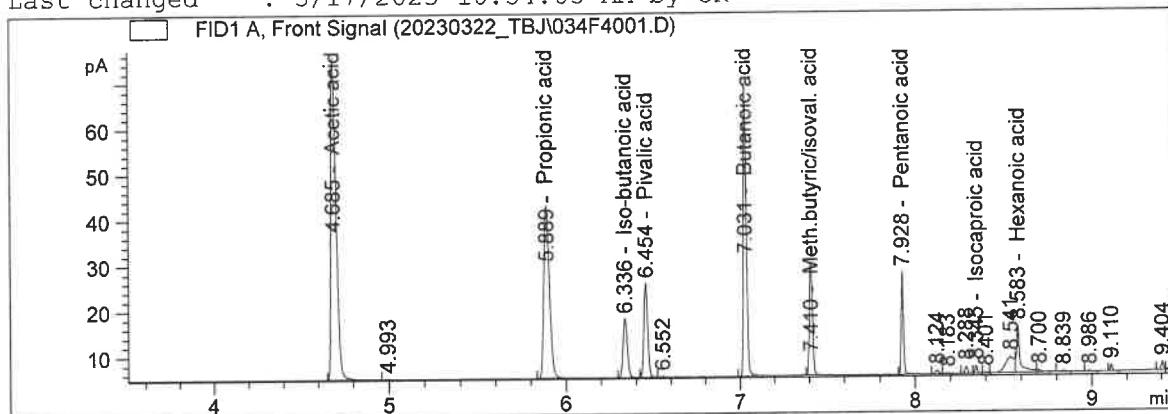
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

```
=====
Acq. Operator   : CR                      Seq. Line :   40
Acq. Instrument : Instrument 1             Location  : Vial 34
Injection Date  : 3/22/2023 9:16:43 PM    Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\DATA\2022\20230322_TBJ.S
Method          : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M
Last changed    : 3/17/2023 10:54:05 AM by CR
=====
```



Internal Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
# [mg/L]
-----|-----|-----
1 1.00000 Pivalic acid
=====
```

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.685	BB	1	151.49799	1825.30026	8780.63298		Acetic acid
5.889	BB	1	83.53291	1106.22440	2934.17135		Propionic acid
6.336	BB	1	21.57196	861.99620	590.44512		Iso-butyric acid
6.454	BB +I	1	31.49310	1.00000	1.00000		Pivalic acid
7.031	BB	1	76.76760	870.87548	2122.84695		Butanoic acid
7.410	VB	1	30.77543	770.96141	753.39269		Meth.butyric/isoval. acid
7.928	BB	1	20.13695	775.35908	495.77115		Pentanoic acid
8.345	VB	1	1.46780	607.18898	28.29925		Isocaproic acid
8.583	VV	1	14.57584	752.55928	348.30445		Hexanoic acid

Totals without ISTD(s) : 1.60539e4

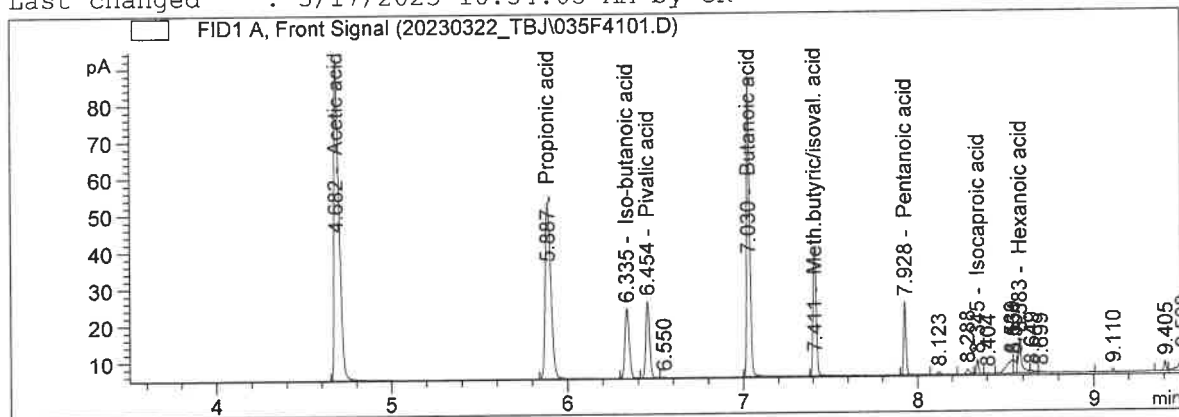
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: CR	Seq. Line	: 41
Acq. Instrument	: Instrument 1	Location	: Vial 35
Injection Date	: 3/22/2023 9:33:34 PM	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\CHEM32\1\DATA\2022\20230322_TBJ.S		
Method	: C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M		
Last changed	: 3/17/2023 10:54:05 AM by CR		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]
-----|-----|-----
1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.682	BB	1	176.21484	1825.40909	1.00123e4		Acetic acid
5.887	BB	1	105.59043	1106.35322	3636.19770		Propionic acid
6.335	BV	1	31.95239	862.79526	858.10454		Iso-butanoic acid
6.454	VV +I	1	32.12705	1.00000	1.00000		Pivalic acid
7.030	BB	1	98.35513	871.01702	2666.56858		Butanoic acid
7.411	BB	1	44.13168	772.10250	1060.60711		Meth. butyric/isoval. acid
7.928	BB	1	18.64328	774.80305	449.61699		Pentanoic acid
8.345	VV	1	3.32535	684.62542	70.86290		Isocaproic acid
8.583	VV	1	11.24456	747.27343	261.54775		Hexanoic acid

Totals without ISTD(s) : 1.90158e4

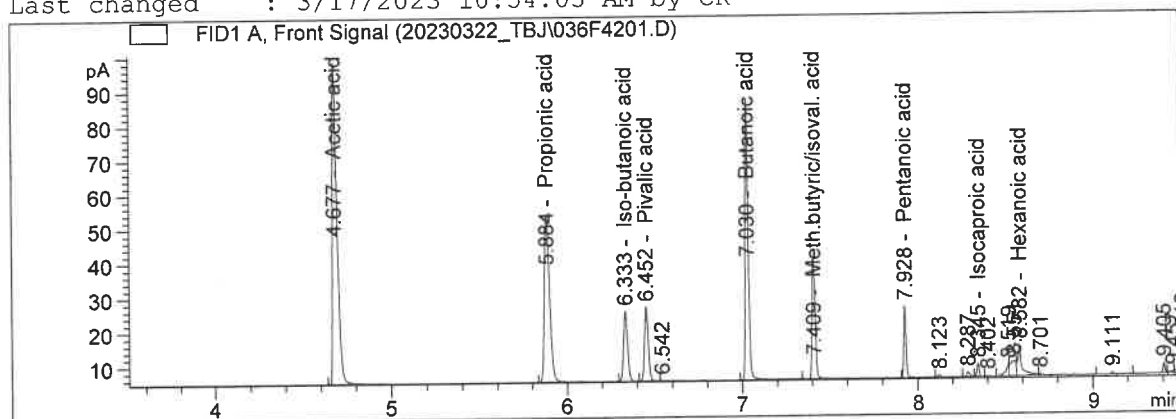
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: CR	Seq. Line	: 42
Acq. Instrument	: Instrument 1	Location	: Vial 36
Injection Date	: 3/22/2023 9:50:16 PM	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\CHEM32\1\DATA\2022\20230322_TBJ.S		
Method	: C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M		
Last changed	: 3/17/2023 10:54:05 AM by CR		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]
-----|-----|-----
1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.677	BB	1	171.26616	1825.39634	9850.44021		Acetic acid
5.884	BB	1	101.06066	1106.33590	3522.86536		Propionic acid
6.333	BV	1	32.03569	862.82124	870.92702		Iso-butyric acid
6.452	VB +I	1	31.73753	1.00000	1.00000		Pivalic acid
7.030	BB	1	97.61979	871.01961	2679.12331		Butanoic acid
7.409	BB	1	43.67543	772.10757	1062.53164		Meth.butyric/isoval. acid
7.928	BB	1	18.57032	774.85263	453.38309		Pentanoic acid
8.345	VV	1	3.21706	683.28540	69.26098		Isocaproic acid
8.582	VV	1	14.36242	752.18645	340.39247		Hexanoic acid

Totals without ISTD(s) : 1.88489e4

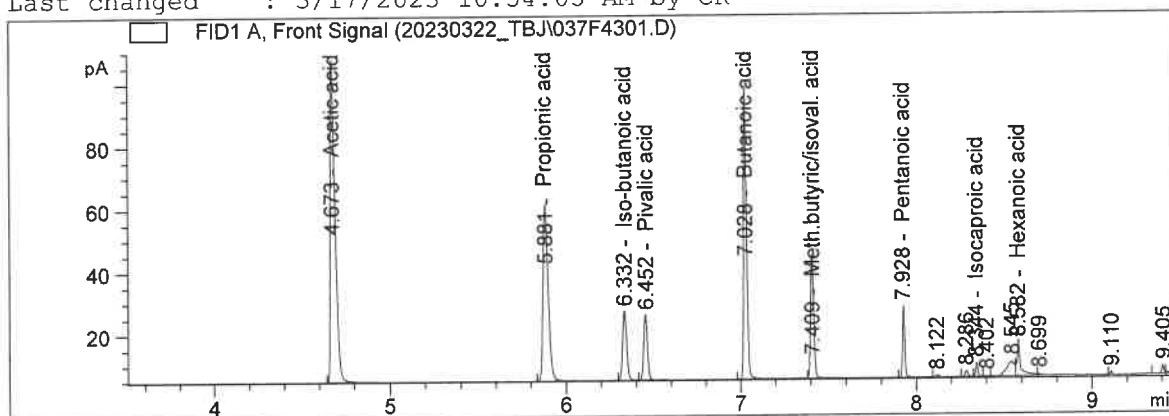
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

```
=====
Acq. Operator   : CR                      Seq. Line :   43
Acq. Instrument : Instrument 1             Location  : Vial 37
Injection Date  : 3/22/2023 10:07:03 PM   Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\DATA\2022\20230322_TBJ.S
Method          : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M
Last changed    : 3/17/2023 10:54:05 AM by CR
=====
```



Internal Standard Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
# [mg/L]
-----|-----|-----
1 1.00000 Pivalic acid
=====
```

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.673	BB	1	195.46373	1825.50734	1.14636e4		Acetic acid
5.881	BB	1	115.90399	1106.41645	4119.90211		Propionic acid
6.332	BV	1	35.03447	863.00101	971.35221		Iso-butanoic acid
6.452	VB +I	1	31.12649	1.00000	1.00000		Pivalic acid
7.028	BB	1	108.81988	871.08577	3045.36278		Butanoic acid
7.409	BB	1	48.64479	772.44292	1207.18172		Meth.butyric/isoval. acid
7.928	BB	1	20.61112	775.54675	513.54622		Pentanoic acid
8.344	VV	1	3.61628	691.54494	80.34382		Isocaproic acid
8.582	VV	1	15.69458	753.90542	380.13365		Hexanoic acid

Totals without ISTD(s) : 2.17814e4

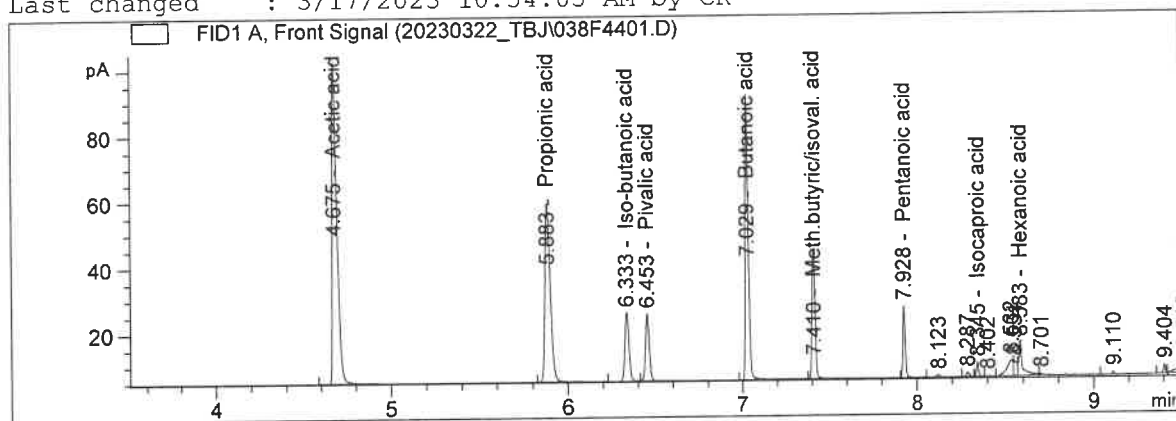
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: CR	Seq. Line	: 44
Acq. Instrument	: Instrument 1	Location	: Vial 38
Injection Date	: 3/22/2023 10:23:47 PM	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\CHEM32\1\DATA\2022\20230322_TBJ.S		
Method	: C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M		
Last changed	: 3/17/2023 10:54:05 AM by CR		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]

1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.675	BB	1	188.49759	1825.48974	1.11735e4		Acetic acid
5.883	BB	1	113.41916	1106.41119	4074.79758		Propionic acid
6.333	BV	1	34.00826	862.97095	952.97966		Iso-butanoic acid
6.453	VV +I	1	30.79619	1.00000	1.00000		Pivalic acid
7.029	BB	1	104.97295	871.07335	2969.17097		Butanoic acid
7.410	VB	1	47.31593	772.40046	1186.73283		Meth. butyric/isoval. acid
7.928	BB	1	20.16015	775.48602	507.65750		Pentanoic acid
8.345	VV	1	3.46217	689.65586	77.53250		Isocaproic acid
8.583	VV	1	14.90745	753.27884	364.63831		Hexanoic acid

Totals without ISTD(s) : 2.13070e4

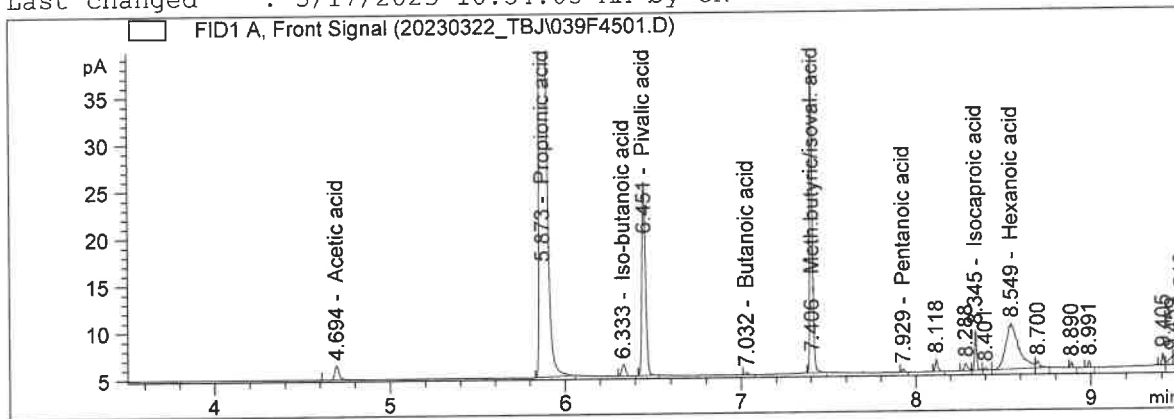
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: CR	Seq. Line	: 45
Acq. Instrument	: Instrument 1	Location	: Vial 39
Injection Date	: 3/22/2023 10:40:40 PM	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\CHEM32\1\DATA\2022\20230322_TBJ.S		
Method	: C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M		
Last changed	: 3/17/2023 10:54:05 AM by CR		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]
-----|-----|-----
1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.694	BB	1	2.56601	1776.66288	152.75828		Acetic acid
5.873	BB	1	231.31696	1106.66352	8577.57027		Propionic acid
6.333	BB	1	1.89043	836.80446	53.00604		Iso-butanoic acid
6.451	BB +I	1	29.84412	1.00000	1.00000		Pivalic acid
7.032	BB	1	2.87557e-1	695.84756	6.70470		Butanoic acid
7.406	VB	1	35.03568	771.62402	905.85262		Meth.butyric/isoval. acid
7.929	BB	1	3.38283e-1	472.88850	5.36018		Pentanoic acid
8.345	VV	1	3.47873	691.73061	80.63031		Isocaproic acid
8.549	VV	1	25.18866	759.96506	641.41622		Hexanoic acid

Totals without ISTD(s) : 1.04233e4

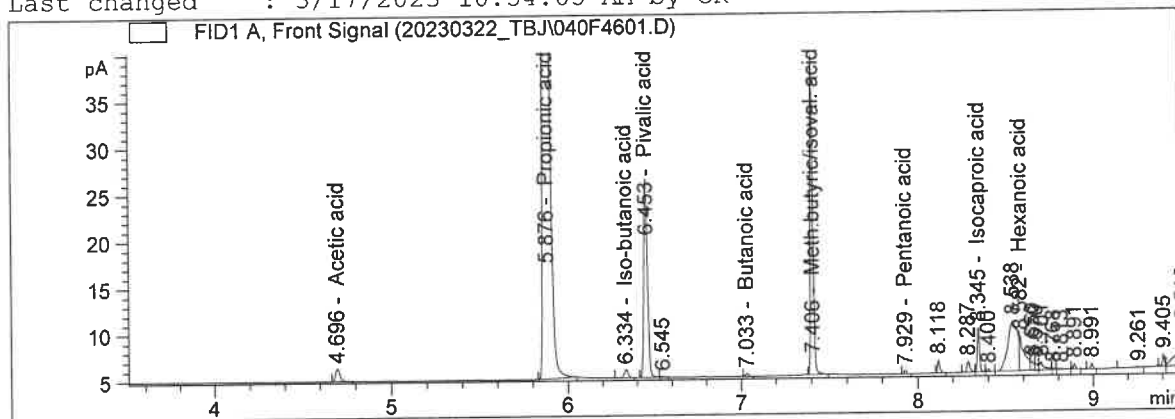
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: CR	Seq. Line	: 46
Acq. Instrument	: Instrument 1	Location	: Vial 40
Injection Date	: 3/22/2023 10:57:23 PM	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\CHEM32\1\DATA\2022\20230322_TBJ.S		
Method	: C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M		
Last changed	: 3/17/2023 10:54:05 AM by CR		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]
-----|-----|-----
1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.696	BB	1	2.44878	1772.41734	140.36023		Acetic acid
5.876	BB	1	234.00978	1106.65799	8374.83495		Propionic acid
6.334	BB	1	1.29940	822.71954	34.57190		Iso-butyric acid
6.453	BB +I	1	30.92226	1.00000	1.00000		Pivalic acid
7.033	BB	1	3.78236e-1	733.14954	8.96777		Butanoic acid
7.406	VB	1	34.80971	771.48299	868.47156		Meth.butyric/isoval. acid
7.929	BB	1	3.19106e-1	442.59064	4.56736		Pentanoic acid
8.345	VB	1	4.01403	697.47858	90.54006		Isocaproic acid
8.582	VV	1	7.42934	737.36887	177.15920		Hexanoic acid

Totals without ISTD(s) : 9699.47304

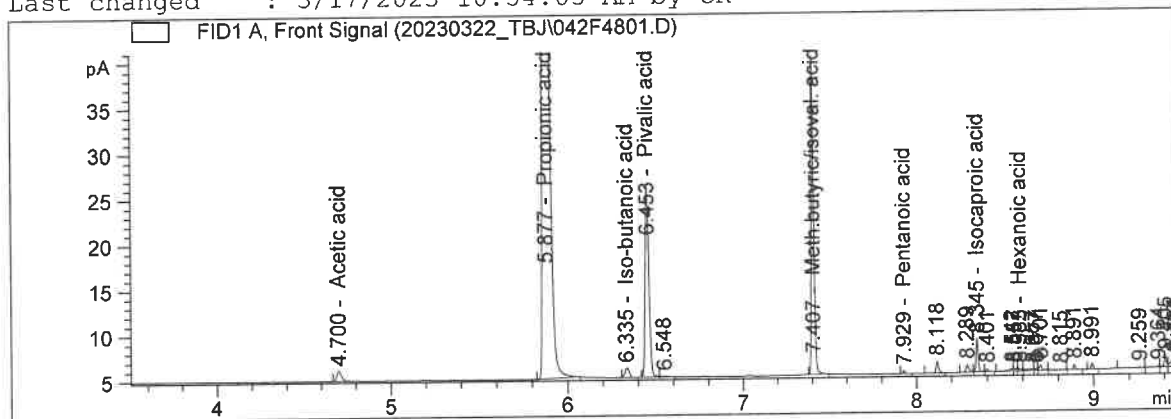
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator : CR	Seq. Line : 48
Acq. Instrument : Instrument 1	Location : Vial 42
Injection Date : 3/22/2023 11:30:52 PM	Inj : 1
	Inj Volume : 1 µl
Sequence File : C:\CHEM32\1\DATA\2022\20230322_TBJ.S	
Method : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M	
Last changed : 3/17/2023 10:54:05 AM by CR	



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]
-----|-----
1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.700	BB	1	2.11886	1762.41022	117.66785		Acetic acid
5.877	BB	1	243.63934	1106.66133	8495.91580		Propionic acid
6.335	BB	1	1.65476	830.84085	43.32126		Iso-butyric acid
6.453	BV +I	1	31.73598	1.00000	1.00000		Pivalic acid
7.031		1	-	-	-		Butanoic acid
7.407	VB	1	36.07765	771.51647	877.06437		Meth.butyric/isoval. acid
7.929	BB	1	3.03930e-1	416.35698	3.98737		Pentanoic acid
8.345	VV	1	3.13608	681.61617	67.35589		Isocaproic acid
8.583	VV	1	3.88434e-1	148.88932	1.82234		Hexanoic acid

Totals without ISTD(s) : 9607.13488

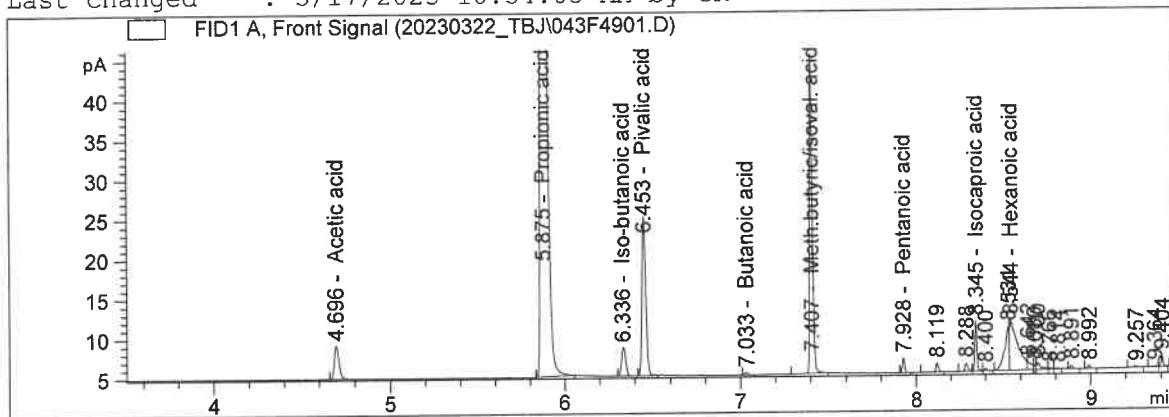
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

=====

Acq. Operator : CR	Seq. Line : 49
Acq. Instrument : Instrument 1	Location : Vial 43
Injection Date : 3/22/2023 11:47:40 PM	Inj : 1
	Inj Volume : 1 µl
Sequence File : C:\CHEM32\1\DATA\2022\20230322_TBJ.S	
Method : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M	
Last changed : 3/17/2023 10:54:05 AM by CR	



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]

1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.696	BB	1	7.75264	1809.70137	467.46172		Acetic acid
5.875	BB	1	273.87976	1106.69793	1.00990e4		Propionic acid
6.336	BB	1	5.77570	855.42612	164.61759		Iso-butanoic acid
6.453	BB +I	1	30.01309	1.00000	1.00000		Pivalic acid
7.033	BB	1	3.60830e-1	730.73845	8.78525		Butanoic acid
7.407	BB	1	43.55737	772.25293	1120.75474		Meth.butyric/isoval. acid
7.928	BB	1	1.67723	718.35967	40.14437		Pentanoic acid
8.345	VV	1	5.28819	710.79338	125.23913		Isocaproic acid
8.544	VV	1	19.98918	757.56195	504.54797		Hexanoic acid

Totals without ISTD(s) : 1.25306e4

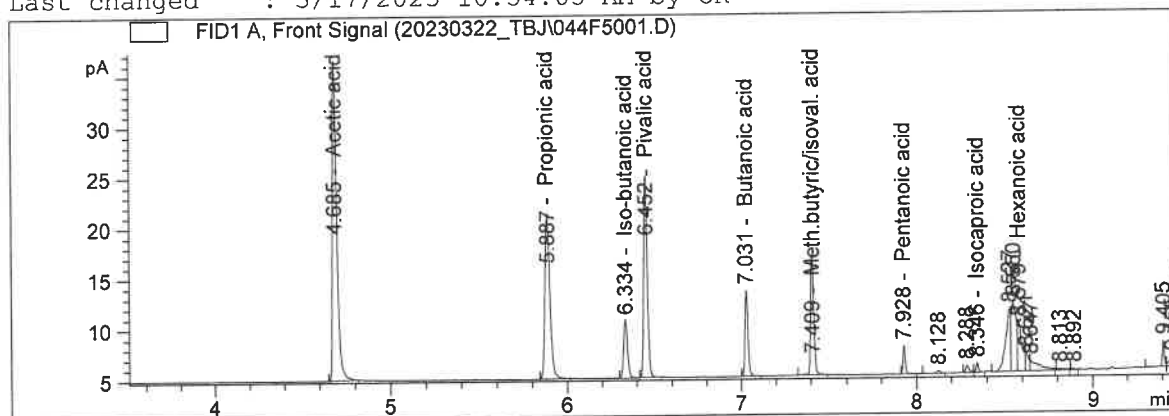
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator : CR	Seq. Line : 50
Acq. Instrument : Instrument 1	Location : Vial 44
Injection Date : 3/23/2023 12:04:27 AM	Inj : 1
	Inj Volume : 1 µl
Sequence File : C:\CHEM32\1\DATA\2022\20230322_TBJ.S	
Method : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M	
Last changed : 3/17/2023 10:54:05 AM by CR	



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]

1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.685	BB	1	53.72687	1823.90720	3408.90821		Acetic acid
5.887	BB	1	32.52371	1105.32695	1250.58125		Propionic acid
6.334	BB	1	8.98896	858.94017	268.59219		Iso-butanoic acid
6.452	BB	+I 1	28.74610	1.00000	1.00000		Pivalic acid
7.031	BB	1	10.10526	866.75366	304.69437		Butanoic acid
7.409	BB	1	14.85480	767.43843	396.58042		Meth.butyric/isoval. acid
7.928	BB	1	2.58436	741.99412	66.70759		Pentanoic acid
8.346	VB	1	8.63411e-1	529.47084	15.90305		Isocaproic acid
8.579	VV	1	8.49980	743.29014	219.78000		Hexanoic acid

Totals without ISTD(s) : 5931.74706

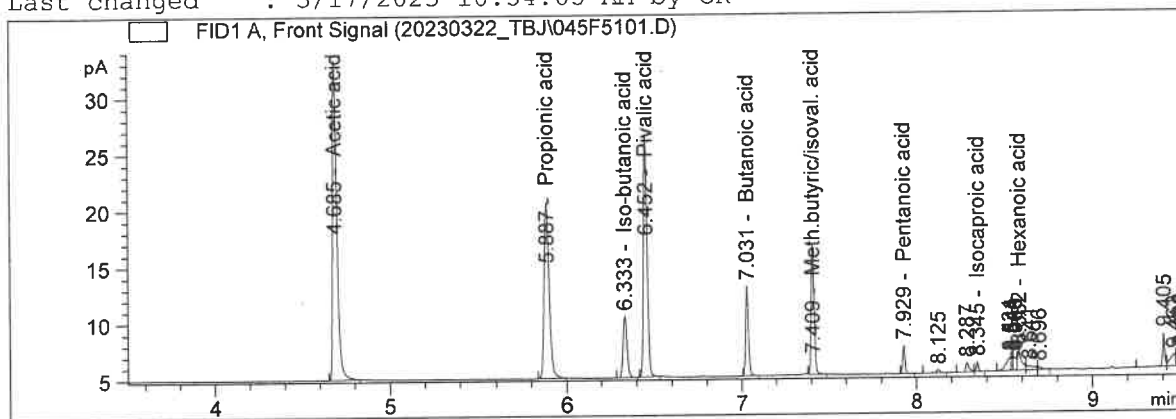
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: CR	Seq. Line	: 51
Acq. Instrument	: Instrument 1	Location	: Vial 45
Injection Date	: 3/23/2023 12:21:14 AM	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\CHEM32\1\DATA\2022\20230322_TBJ.S		
Method	: C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M		
Last changed	: 3/17/2023 10:54:05 AM by CR		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]
-----|-----|-----
1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.685	BB	1	48.45689	1823.46883	2858.12670		Acetic acid
5.887	BB	1	31.04222	1105.12853	1109.66823		Propionic acid
6.333	BB	1	8.55391	858.20830	237.45703		Iso-butanoic acid
6.452	BB	+I	30.91522	1.00000	1.00000		Pivalic acid
7.031	BB	1	9.02906	865.77282	252.85659		Butanoic acid
7.409	VB	1	13.99777	766.38194	347.00182		Meth.butyric/isoval. acid
7.929	BB	1	2.30536	734.01136	54.73545		Pentanoic acid
8.345	VV	1	7.58883e-1	480.59754	11.79733		Isocaproic acid
8.582	VV	1	2.74132	683.36837	60.59579		Hexanoic acid

Totals without ISTD(s) : 4932.23894

1 Warnings or Errors :

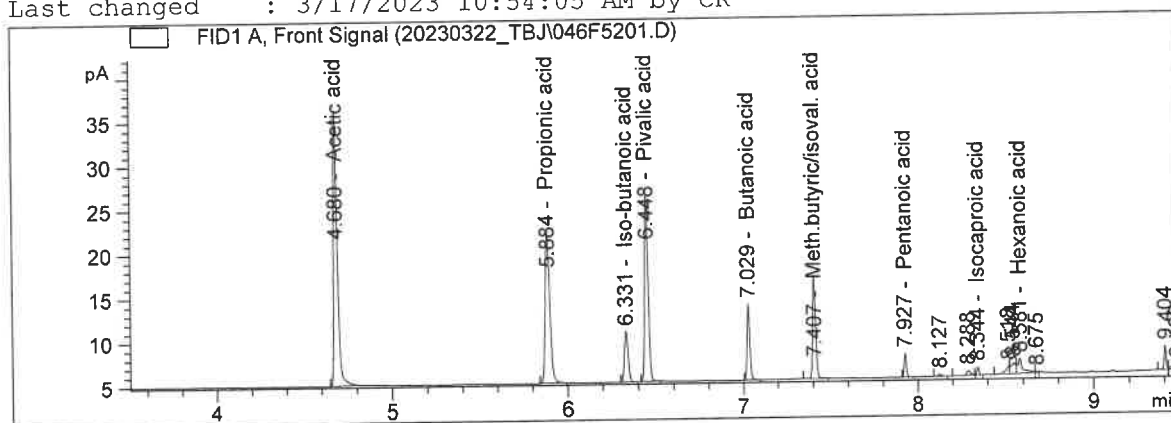
Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: CR	Seq. Line	: 52
Acq. Instrument	: Instrument 1	Location	: Vial 46
Injection Date	: 3/23/2023 12:37:57 AM	Inj	: 1
		Inj Volume	: 1 µl

Sequence File : C:\CHEM32\1\DATA\2022\20230322_TBJ.S
Method : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M
Last changed : 3/17/2023 10:54:05 AM by CR



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD	ISTD Amount	Name
#	[mg/L]	

1	1.00000	Pivalic acid
---	---------	--------------

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.680	BB	1	46.82540	1823.44924	2837.62929		Acetic acid
5.884	BB	1	31.72254	1105.21242	1165.18327		Propionic acid
6.331	BB	1	8.58375	858.39948	244.87649		Iso-butyric acid
6.448	BB	+I	30.08981	1.00000	1.00000		Pivalic acid
7.029	BB	1	9.47609	866.19378	272.78766		Butanoic acid
7.407	VB	1	13.77765	766.47707	350.95762		Meth. butyric/isoval. acid
7.927	BB	1	2.47726	738.42225	60.79334		Pentanoic acid
8.344	VB	1	7.82003e-1	495.43491	12.87585		Isocaproic acid
8.581	VV	1	3.52839	704.23589	82.58015		Hexanoic acid

Totals without ISTD(s) : 5027.68368

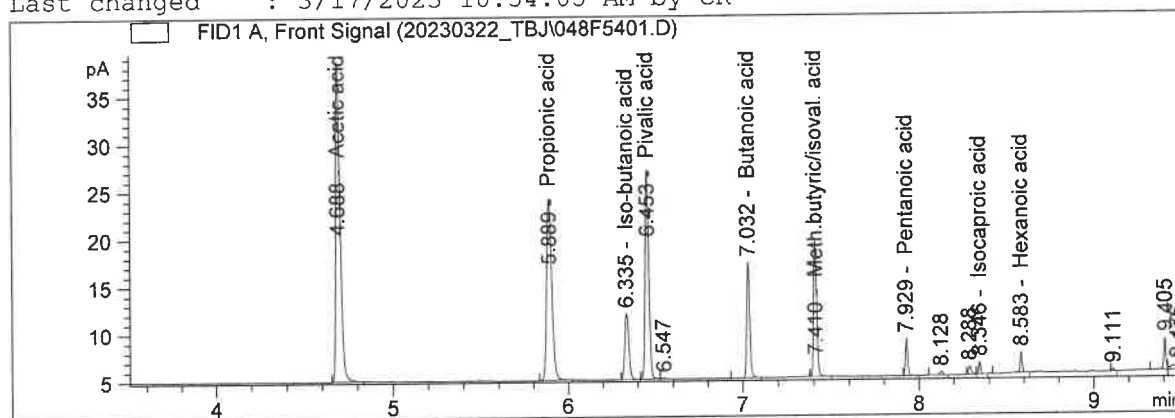
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator : CR	Seq. Line : 54
Acq. Instrument : Instrument 1	Location : Vial 48
Injection Date : 3/23/2023 1:11:28 AM	Inj : 1
	Inj Volume : 1 µl
Sequence File : C:\CHEM32\1\DATA\2022\20230322_TBJ.S	
Method : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M	
Last changed : 3/17/2023 10:54:05 AM by CR	



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]
-----|-----|-----
1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.688	BB	1	59.21851	1823.87454	3360.66924		Acetic acid
5.889	BB	1	39.42141	1105.44840	1355.95098		Propionic acid
6.335	BB	1	11.35109	859.58480	303.59859		Iso-butanoic acid
6.453	BV +I	1	32.13858	1.00000	1.00000		Pivalic acid
7.032	BB	1	14.40340	867.79214	388.91450		Butanoic acid
7.410	VB	1	17.62570	767.87018	421.12171		Meth.butyric/isoval. acid
7.929	BB	1	3.69365	750.44795	86.24805		Pentanoic acid
8.346	VV	1	1.13361	561.92333	19.82047		Isocaproic acid
8.583	VB	1	1.99530	646.71444	40.15077		Hexanoic acid

Totals without ISTD(s) : 5976.47432

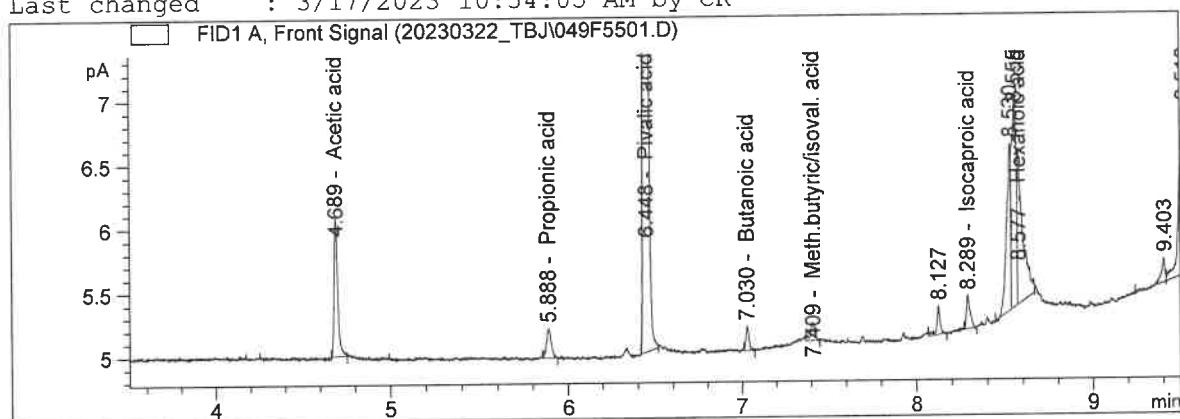
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator : CR	Seq. Line : 55
Acq. Instrument : Instrument 1	Location : Vial 49
Injection Date : 3/23/2023 1:28:10 AM	Inj : 1
	Inj Volume : 1 µl
Sequence File : C:\CHEM32\1\DATA\2022\20230322_TBJ.S	
Method : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M	
Last changed : 3/17/2023 10:54:05 AM by CR	



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]
-----|-----|-----
1 1.00000 Pivalic acid

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.689	BB	1	1.58728	1758.62911	110.84368		Acetic acid
5.888	BB	1	4.31172e-1	1003.47091	17.18061		Propionic acid
6.328		1	-	-	-		Iso-butanoic acid
6.448	BB +I	1	25.18353	1.00000	1.00000		Pivalic acid
7.030	BB	1	2.42062e-1	695.42034	6.68433		Butanoic acid
7.409	BB	1	2.28696e-1	349.45550	3.17347		Meth.butyric/isoval. acid
7.922		1	-	-	-		Pentanoic acid
8.289	BB	1	3.70856e-1	302.22648	4.45063		Isocaproic acid
8.577	VB	1	2.59364	695.26665	71.60517		Hexanoic acid

Totals without ISTD(s) : 213.93788

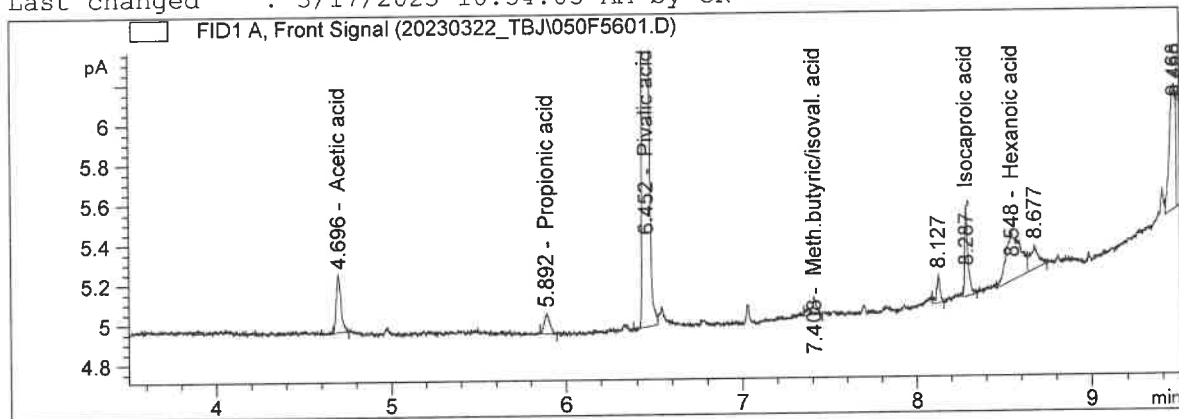
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

```
=====
Acq. Operator   : CR                      Seq. Line :   56
Acq. Instrument : Instrument 1             Location  : Vial 50
Injection Date  : 3/23/2023 1:44:52 AM    Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\DATA\2022\20230322_TBJ.S
Method          : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M
Last changed    : 3/17/2023 10:54:05 AM by CR
=====
```



Internal Standard Report

```
Sorted By      : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
# [mg/L]
-----|-----|-----
1 1.00000 Pivalic acid
```

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.696	BB	1	5.53015e-1	1651.29595	40.20349		Acetic acid
5.892	BB	1	2.17791e-1	922.22040	8.84255		Propionic acid
6.332		1	-	-	-		Iso-butyanoic acid
6.452	BB +I	1	22.71423	1.00000	1.00000		Pivalic acid
7.030		1	-	-	-		Butanoic acid
7.408	BB	1	2.03672e-1	344.02514	3.08478		Meth. butyric/isoval. acid
7.927		1	-	-	-		Pentanoic acid
8.287	BB	1	5.83303e-1	492.39596	12.64475		Isocaproic acid
8.548	BV	1	1.36005	642.20699	38.45306		Hexanoic acid

Totals without ISTD(s) : 103.22862

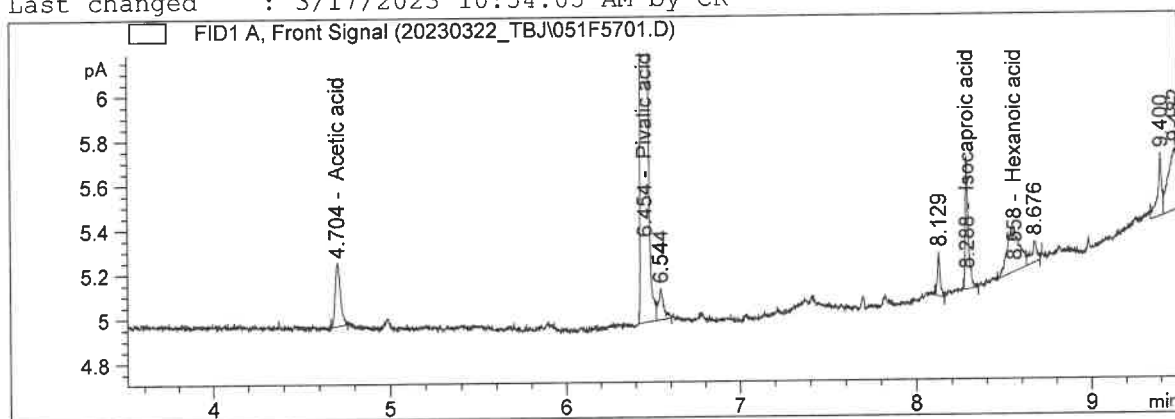
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

=====

Acq. Operator : CR	Seq. Line : 57
Acq. Instrument : Instrument 1	Location : Vial 51
Injection Date : 3/23/2023 2:01:45 AM	Inj : 1
	Inj Volume : 1 µl
Sequence File : C:\CHEM32\1\DATA\2022\20230322_TBJ.S	
Method : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M	
Last changed : 3/17/2023 10:54:05 AM by CR	



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 3/17/2023 10:23:37 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD ISTD Amount Name
[mg/L]

1	1.00000	Pivalic acid
---	---------	--------------

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.704	BB	1	5.89481e-1	1612.51862	32.13440		Acetic acid
5.886		1	-	-	-		Propionic acid
6.334		1	-	-	-		Iso-butyric acid
6.454	BV +I	1	29.58043	1.00000	1.00000		Pivalic acid
7.032		1	-	-	-		Butanoic acid
7.408		1	-	-	-		Meth.butyric/isoval. acid
7.929		1	-	-	-		Pentanoic acid
8.288	BB	1	7.09814e-1	474.45433	11.38503		Isocaproic acid
8.558	BV	1	9.49097e-1	532.42067	17.08288		Hexanoic acid

Totals without ISTD(s) : 60.60231

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

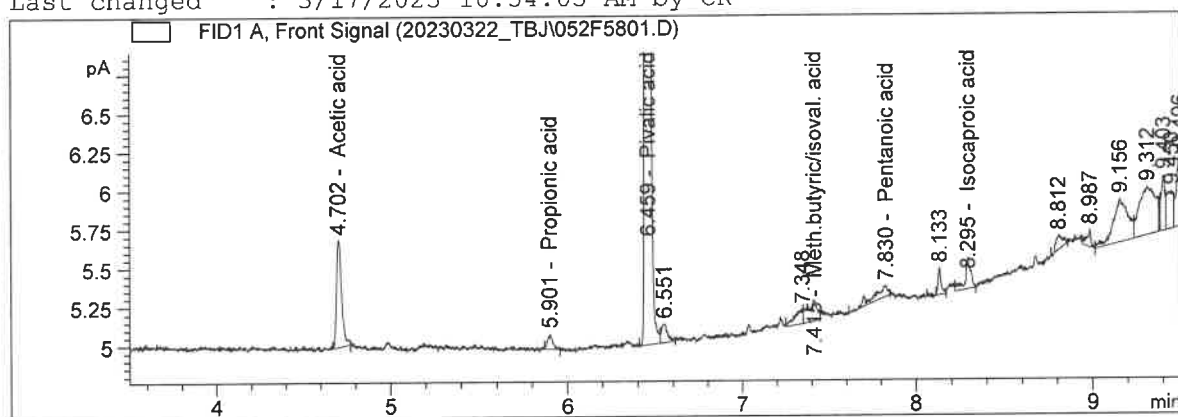
Sample Name: HG/FD 16

```

=====
Acq. Operator   : CR                      Seq. Line :   58
Acq. Instrument : Instrument 1             Location  : Vial 52
Injection Date  : 3/23/2023 7:48:20 AM    Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\DATA\2022\20230322_TBJ.S
Method          : C:\CHEM32\1\METHODS\VFA WITH PRINTOUT_1UL.M
Last changed    : 3/17/2023 10:54:05 AM by CR
=====

```



```

=====
Internal Standard Report
=====

```

```

Sorted By           :      Signal
Calib. Data Modified :      3/17/2023 10:23:37 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount  Name
#      [mg/L]
-----|-----|-----
1      1.00000    Pivalic acid

```

Signal 1: FID1 A, Front Signal

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount [mg/L]	Grp	Name
4.702	BB	1	1.41503	1740.93408	86.95282		Acetic acid
5.901	BB	1	1.98399e-1	854.04017	5.98074		Propionic acid
6.339		1	-	-	-		Iso-butanoic acid
6.459	BV +I	1	28.33107	1.00000	1.00000		Pivalic acid
7.037		1	-	-	-		Butanoic acid
7.415	VV	1	5.15342e-1	562.50862	10.23203		Meth.butyric/isoval. acid
7.830	BB	1	3.89191e-1	526.73708	7.23592		Pentanoic acid
8.295	VB	1	4.52952e-1	337.40886	5.39443		Isocaproic acid
8.591		1	-	-	-		Hexanoic acid

Totals without ISTD(s) : 115.79595

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

```

=====
*** End of Report ***
=====

```