

# ==== Shimadzu LabSolutions Analysis Report =====

|                  |                                                                   |              |                        |
|------------------|-------------------------------------------------------------------|--------------|------------------------|
| Sample Name      | : DL V42 R3                                                       |              |                        |
| Sample ID        | :                                                                 |              |                        |
| Data Filename    | : DL V42 R3_20250820_DL V42_SFB_B_ST1_0.8 mL_45 min_Start_002.lcd |              |                        |
| Method Filename  | : SFB_B_ST1_0.8 mL_45 min_Start.lcm                               |              |                        |
| Batch Filename   | : 20250904_DL V41-44_Postrun.lcb                                  |              |                        |
| Vial #           | : 3-6                                                             | Sample Type  | : Unknown              |
| Injection Volume | : 10 uL                                                           |              |                        |
| Date Acquired    | : 8/20/2025 11:42:05 AM                                           | Acquired by  | : System Administrator |
| Date Processed   | : 9/4/2025 8:31:10 AM                                             | Processed by | : System Administrator |

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## <Method>

### <<Header>>

|             |                        |
|-------------|------------------------|
| Generated   | : 4/24/2024 3:47:23 PM |
| GeneratedBy | : System Administrator |
| Modified    | : 9/3/2025 12:32:49 PM |
| ModifiedBy  | : System Administrator |

### <<System Controller>>

|                    |          |
|--------------------|----------|
| Model              | : SCL-40 |
| Event1             | : Off    |
| Event2             | : Off    |
| Sample Load Timing | : Off    |

### <<Data Acquisition>>

|                               |              |
|-------------------------------|--------------|
| LC Stop Time                  | : 45.00 min  |
| Detector A Name               | : Detector A |
| Detector A Sampling Frequency | : 2 Hz       |
| Detector A Start Time         | : 0.00 min   |
| Detector A End Time           | : 45.00 min  |

### <<Pump>>

|                                |                   |
|--------------------------------|-------------------|
| Mode                           | : Isocratic flow  |
| Pump A                         | : LC-40D          |
| Pump A Flow/Pressure           | : Flow            |
| Pump System A Flow             | : 0.8000 mL/min   |
| Pump System A Flow Slope       | : 20.00 min       |
| Pump A PressMax                | : 90 bar          |
| Pump A PressMin                | : 0 bar           |
| Pump A Valve Model             | : Switching Valve |
| Pump A Valve                   | : B               |
| Pump A Compressibility Setting | : On              |
| Pump A Mobile Phase Settings   | : 0.45 /GPa       |

### <<Autosampler>>

|                             |                               |
|-----------------------------|-------------------------------|
| Autosampler Model           | : SIL-40                      |
| Enable Autosampler          | : Use                         |
| Rinse Type                  | : External only               |
| Specify Plate               | : Off                         |
| Rinsing Volume              | : 500 uL                      |
| Cut Off Loop                | : Off                         |
| Specify Needle Stroke       | : Off                         |
| Rinsing Speed               | : 35 uL/sec                   |
| Sampling Speed              | : 5.0 uL/sec                  |
| Rinse Port R0 Purge Time    | : 2.0 min                     |
| Measuring Line Purge Time   | : 5.0 min                     |
| Rinse Mode                  | : Before and after aspiration |
| Rinse Dip Time              | : 0 sec                       |
| Measuring Line Purge Volume | : 100 uL                      |
| Air Gap Volume              | : Off                         |
| Rinse Port Liquid           | : R0                          |

### <<Sample Pretreatment>>

|      |            |
|------|------------|
| Mode | : Standard |
|------|------------|

### <<Oven>>

|                     |           |
|---------------------|-----------|
| Oven Model          | : CTO-40C |
| Enable Oven         | : Use     |
| Oven Temperature    | : 25 C    |
| Maximum Temperature | : 105 C   |

Ready Check : On  
 Wait Time : 5 min  
 Ready Range : 1.0 C  
 Fan Speed : Auto  
 Cooler Mode : Auto  
 Valve 1/L : FCV-0206  
 Valve 1/L Position : 1

## &lt;&lt;Detector A&gt;&gt;

Model : RID-20A  
 Mode : Analytical  
 Polarity : +  
 Use Cell Temp. : Use  
 Cell Temp. : 40.0 C  
 Response : 1.5 sec  
 Intensity Unit : Volt  
 Auxiliary Range : 1.0E-3 RIU/V  
 Recorder Range : 100.00 uRIU/FS  
 Synchronize with Auxiliary : Off  
 Purge Time : 20 min

## &lt;&lt;LC Time Program&gt;&gt;

| Time  | Module         | Command | Value | Comment |
|-------|----------------|---------|-------|---------|
| 0.01  | RID-20A(DET.A) | Zero    |       |         |
| 45.00 | Controller     | Stop    |       |         |

## &lt;&lt;Peak Integration&gt;&gt;

## &lt;Detector A&gt;

Channel : Ch1  
 Width : 5 sec  
 Slope : 2000 uV/min  
 Drift : 0 uV/min  
 T.DBL : 1000 min  
 Max Slices : 0  
 Peak Top Detection : Normal  
 RT Compensation Mode : Fine  
 Min.Area/Height is made effective in Manual Integration : Off  
 Min.Area/Height : 1000 counts  
 Calculated by : Area  
 Noise Calculation Settings : Noise Data : Current Data  
 Calculation Method : ASTM  
 Range : Whole Range  
 Interval : 0.5 min  
 Include the Peak Detected Range : Off  
 Detection Limit Coefficient : 3.3  
 Quantitative Limit Coefficient : 10.0  
 Drift Calculation Settings : 0.000 - 15.000 min

## &lt;&lt;Integration Time Program(Method)&gt;&gt;

## &lt;Detector A&gt;

Channel : Ch1  
 Time Program : None

## &lt;&lt;Integration Time Program(Data)&gt;&gt;

## &lt;Detector A&gt;

| Channel | Time Program          | Time(min) | Command    | Value |
|---------|-----------------------|-----------|------------|-------|
| Ch1     | No. Enable<br>1 [Yes] | 12.117    | Split Peak |       |

## &lt;&lt;Identification&gt;&gt;

## &lt;Detector A&gt;

Window/Band : Window  
 Window : 5.00 %  
 Identification Method : Absolute  
 Peak Selection : Closest Peak  
 Display not identified peaks : Not display

## &lt;&lt;Quantitative&gt;&gt;

## &lt;Detector A&gt;

Quantitative Method : External Standard  
 Calculated by : Area  
 # of Calibration Levels : 14  
 Curve Fit Type : Linear  
 Zero : Not Forced  
 Weighting Method : None  
 X Axis of Calib. Curve : Conc.  
 Units : mol/L  
 Format of Conc. : Decimals  
 Format of Conc. Figure : 5

|                             |            |
|-----------------------------|------------|
| Group Type                  | : Not Used |
| Check %Dev(Standard)        | : No       |
| Check Accuracy[%](Standard) | : No       |
| Check %Dev(Control)         | : No       |
| Check Accuracy[%](Control)  | : No       |
| Check %Dev(Additive)        | : No       |
| Check Accuracy[%](Additive) | : No       |
| Check %Dev(Unknown)         | : No       |
| Check Accuracy[%](Unknown)  | : No       |
| Check Quantitation Limit    | : No       |
| Check Detect Limit          | : No       |

## &lt;&lt;Compound Table&gt;&gt;

<Detector A>

```

ID#           : 1
Name          : Methanol
Type          : Target
Channel       : Ch1
Retention Time: 14.400 min
Retention Index: 0
Concentration : [1]=3.016738      [2]=1.049395      [3]=0.4943277
                [4]=0.2893701    [5]=0.1127578    [6]=0.06136267
                [7]=0.01619725   [8]=3.016738    [9]=1.049395
                [10]=0.4943277   [11]=0.2893701  [12]=0.1127578
                [13]=0.06136267  [14]=0.01619725
Peak Selection: Default(Closest Peak)
Calculated by : Default(Area)
Curve Fit Type: Default(Linear)
Zero          : Default(Not Forced)
Weight        : Default(None)
Window/Band   : Default(Window)
Spiked        : 0.000
1st Coefficient: 4.720087e+005
Intersection  : 1.693726e+003
Correction Factor: 1.000000
Standard concentration factor: 1.000000

```

```

ID#                : 2
Name               : Glycerin
Type              : Target
Channel           : Ch1
Retention Time     : 10.000 min
Retention Index    : 0
Concentration      : [1]=2.958375          [2]=1.078646          [3]=0.5353454
                  : [4]=0.3066948          [5]=0.114594          [6]=0.05901699
                  : [7]=0.0117174          [8]=2.958375          [9]=1.078646
                  : [10]=0.5353454          [11]=0.3066948        [12]=0.114594
                  : [13]=0.05901699         [14]=0.0117174
Peak Selection     : Default(Closest Peak)
Calculated by      : Default(Area)
Curve Fit Type     : Default(Linear)
Zero               : Default(Not Forced)
Weight             : Default(None)
Window/Band        : Default(Window)
Spiked             : 0.000
1st Coefficient    : 7.326784e+006
Intersection       : 2.573900e+005
Correction Factor   : 1.000000
Standard concentration factor : 1.000000

```

```

ID#                : 3
Name               : n-Propanol
Type              : Target
Channel           : Ch1
Retention Time     : 20.000 min
Retention Index    : 0
Concentration      : [1]=3.02526                [2]=1.092217                [3]=0.5139845
                   [4]=0.3105323                [5]=0.09785473            [6]=0.04497364
                   [7]=0.01087275                [8]=3.02526                [9]=1.092217
                   [10]=0.5139845                [11]=0.3105323            [12]=0.09785473
                   [13]=0.04497364                [14]=0.01087275
Peak Selection     : Default(Closest Peak)
Calculated by     : Default(Area)
Curve Fit Type    : Default(Linear)
Zero              : Default(Not Forced)
Weight            : Default(None)
Window/Band       : Default(Window)
Spiked            : 0.000
1st Coefficient   : 3.955755e+006

```

Intersection : -2.585461e+004  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 4  
 Name : 1,2 Propandiol  
 Type : Target  
 Channel : Ch1  
 Retention Time : 12.400 min  
 Retention Index : 0  
 Concentration : [1]=2.977546 [2]=1.016412 [3]=0.5030017  
 [4]=0.3027638 [5]=0.1023958 [6]=0.04970167  
 [7]=0.01157971 [8]=2.977546 [9]=1.016412  
 [10]=0.5030017 [11]=0.3027638 [12]=0.1023958  
 [13]=0.04970167 [14]=0.01157971

Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 5.771075e+006  
 Intersection : 6.007717e+004  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 5  
 Name : 1,3 Propandiol  
 Type : Target  
 Channel : Ch1  
 Retention Time : 13.000 min  
 Retention Index : 0  
 Concentration : [1]=2.976375 [2]=0.9968958 [3]=0.4990984  
 [4]=0.2900131 [5]=0.10734 [6]=0.04944145  
 [7]=0.0100184 [8]=2.976375 [9]=0.9968958  
 [10]=0.4990984 [11]=0.2900131 [12]=0.10734  
 [13]=0.04944145 [14]=0.0100184

Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 5.532080e+006  
 Intersection : 6.014722e+004  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 6  
 Name : iso-Propanol  
 Type : Target  
 Channel : Ch1  
 Retention Time : 16.825 min  
 Retention Index : 0  
 Concentration : [1]=3.03666 [2]=1.003405 [3]=0.5418687  
 [4]=0.3101858 [5]=0.1067771 [6]=0.04972951  
 [7]=0.01397083 [8]=3.03666 [9]=1.003405  
 [10]=0.5418687 [11]=0.3101858 [12]=0.1067771  
 [13]=0.04972951 [14]=0.01397083

Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 3.797216e+006  
 Intersection : -2.284739e+004  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 7  
 Name : Hydroxyacetone  
 Type : Target  
 Channel : Ch1  
 Retention Time : 13.300 min  
 Retention Index : 0

Concentration : [1]=2.855514 [2]=0.9609004 [3]=0.4875675  
 [4]=0.3072624 [5]=0.1038742 [6]=0.04860286  
 [7]=0.009361501 [8]=2.855514 [9]=0.9609004  
 [10]=0.4875675 [11]=0.3072624 [12]=0.1038742  
 [13]=0.04860286 [14]=0.009361501

Peak Selection : Default(Closest Peak)

Calculated by : Default(Area)

Curve Fit Type : Default(Linear)

Zero : Default(Not Forced)

Weight : Default(None)

Window/Band : Default(Window)

Spiked : 0.000

1st Coefficient : 4.865699e+006

Intersection : 5.855022e+004

Correction Factor : 1.000000

Standard concentration factor : 1.000000

ID# : 8

Name : Ethylenglykol

Type : Target

Channel : Ch1

Retention Time : 12.200 min

Retention Index : 0

Concentration : [1]=2.933794 [2]=1.030353 [3]=0.4898163  
 [4]=0.3033639 [5]=0.09840986 [6]=0.059971  
 [7]=0.01068632 [8]=2.933794 [9]=1.030353  
 [10]=0.4898163 [11]=0.3033639 [12]=0.09840986  
 [13]=0.059971 [14]=0.01068632

Peak Selection : Default(Closest Peak)

Calculated by : Default(Area)

Curve Fit Type : Default(Linear)

Zero : Default(Not Forced)

Weight : Default(None)

Window/Band : Default(Window)

Spiked : 0.000

1st Coefficient : 4.284813e+006

Intersection : 4.449721e+003

Correction Factor : 1.000000

Standard concentration factor : 1.000000

ID# : 9

Name : Ethanol

Type : Target

Channel : Ch1

Retention Time : 16.000 min

Retention Index : 0

Concentration : [1]=3.010594 [2]=1.02339 [3]=0.5257763  
 [4]=0.2939754 [5]=0.0961865 [6]=0.04960971  
 [7]=0.01299818 [8]=3.010594 [9]=1.02339  
 [10]=0.5257763 [11]=0.2939754 [12]=0.0961865  
 [13]=0.04960971 [14]=0.01299818

Peak Selection : Default(Closest Peak)

Calculated by : Default(Area)

Curve Fit Type : Default(Linear)

Zero : Default(Not Forced)

Weight : Default(None)

Window/Band : Default(Window)

Spiked : 0.000

1st Coefficient : 2.109543e+006

Intersection : -9.590194e+003

Correction Factor : 1.000000

Standard concentration factor : 1.000000

ID# : 10

Name : Propionsäure

Type : Target

Channel : Ch1

Retention Time : 13.600 min

Retention Index : 0

Concentration : [1]=2.962704 [2]=0.9915078 [3]=0.5019324  
 [4]=0.3085198 [5]=0.1036906 [6]=0.04835313  
 [7]=0.01168534 [8]=2.962704 [9]=0.9915078  
 [10]=0.5019324 [11]=0.3085198 [12]=0.1036906  
 [13]=0.04835313 [14]=0.01168534

Peak Selection : Default(Closest Peak)

Calculated by : Default(Area)

Curve Fit Type : Default(Linear)

Zero : Default(Not Forced)

Weight : Default(None)

Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 4.601450e+006  
 Intersection : -1.609005e+003  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

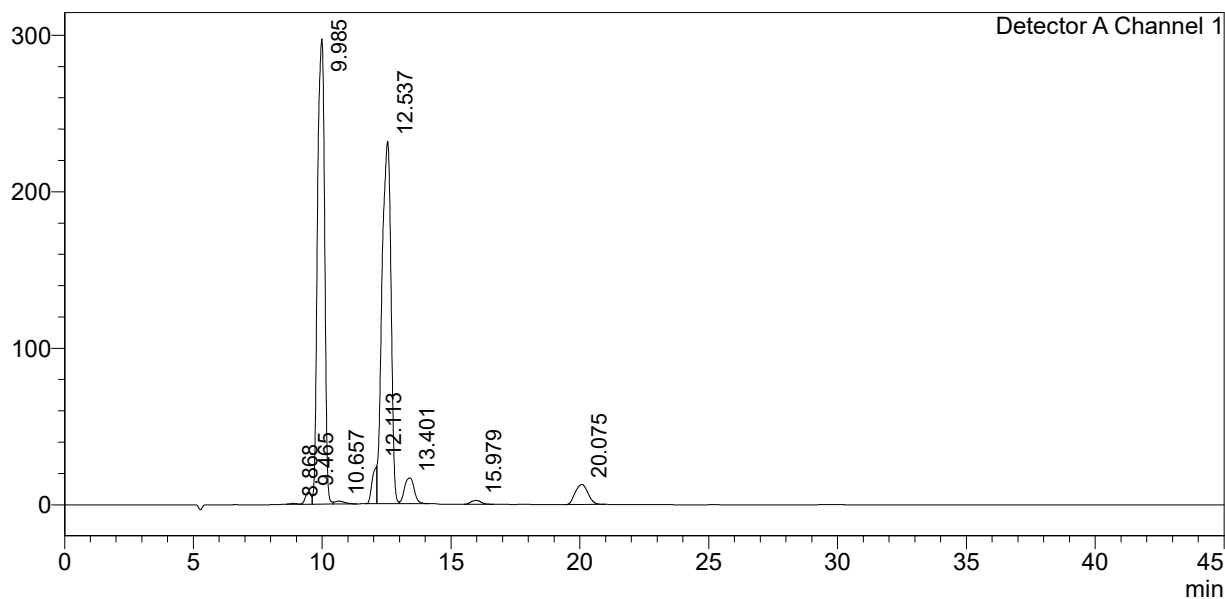
## &lt;&lt;Column Performance&gt;&gt;

## &lt;Detector A&gt;

Calculation Method : USP  
 Unretained Peak Time : Time at 1st Peak  
 Column Length : 150 mm  
 Calculate Identified Peaks Only : Off  
 Calculation of Relative Retention Time : Off

## &lt;Chromatogram&gt;

mV



## &lt;Peak Table&gt;

Detector A Channel 1

| Peak# | Ret. Time | Area     | Height | Conc. | Unit  | Mark | Name           |
|-------|-----------|----------|--------|-------|-------|------|----------------|
| 1     | 8.868     | 8830     | 518    | 0.000 |       |      |                |
| 2     | 9.465     | 119119   | 7732   | 0.000 |       | V    |                |
| 3     | 9.985     | 5709005  | 297256 | 0.744 | mol/L | V    | Glycerin       |
| 4     | 10.657    | 51998    | 1876   | 0.000 |       | V    |                |
| 5     | 12.113    | 289960   | 23710  | 0.067 | mol/L | M    | Ethylenglykol  |
| 6     | 12.537    | 5635505  | 231639 | 0.966 | mol/L | V M  | 1,2 Propandiol |
| 7     | 13.401    | 435381   | 16541  | 0.077 | mol/L | V    | Hydroxyacetone |
| 8     | 15.979    | 67834    | 2429   | 0.037 | mol/L |      | Ethanol        |
| 9     | 20.075    | 439709   | 12752  | 0.118 | mol/L |      | n-Propanol     |
| Total |           | 12757341 | 594453 |       |       |      |                |