

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW061623\  
 Data File : VW031573.D  
 Acq On : 16 Jun 2023 14:00  
 Operator : SY/MD  
 Sample : 03249-03DL 20X  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 EXYS5DL

Quant Time: Jun 17 02:28:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM061423WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jun 17 02:08:04 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.542   | 114   | 226088   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.792   | 117   | 228645   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191  | 152   | 133583   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.281   | 65    | 50421    | 33.509   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 67.020%  |
| 7) Chloroethane-d5            | 1.535   | 69    | 51095    | 38.918   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 77.840%  |
| 11) 1,1-Dichloroethene-d2     | 2.066   | 65    | 28541    | 36.804   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 73.600%  |
| 21) 2-Butanone-d5             | 3.796   | 46    | 104766   | 85.987   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 85.990%  |
| 24) Chloroform-d              | 4.259   | 84    | 149559   | 39.688   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 79.380%  |
| 26) 1,2-Dichloroethane-d4     | 4.950   | 65    | 101386   | 43.001   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 86.000%  |
| 32) Benzene-d6                | 4.969   | 84    | 260217   | 40.432   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 80.860%  |
| 36) 1,2-Dichloropropane-d6    | 5.995   | 67    | 96062    | 42.113   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 84.220%  |
| 41) Toluene-d8                | 7.252   | 98    | 219773   | 37.212   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 74.420%# |
| 43) trans-1,3-Dichloroprop... | 7.558   | 79    | 43561    | 39.173   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 78.340%  |
| 47) 2-Hexanone-d5             | 8.030   | 63    | 77196    | 85.712   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 85.710%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159  | 84    | 146478   | 42.543   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 85.080%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.567  | 152   | 111128   | 43.643   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 87.280%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.288   | 62    | 48342    | 21.550   | ug/L   | 98       |
| 8) Chloroethane               | 1.555   | 64    | 72133    | 49.787   | ug/L   | 94       |
| 17) trans-1,2-Dichloroethene  | 2.709   | 96    | 1068     | 0.612    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.121   | 63    | 186735   | 49.547   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.825   | 96    | 64825    | 34.351   | ug/L   | 94       |
| 30) 1,1,1-Trichloroethane     | 4.519   | 97    | 4244     | 1.158    | ug/L # | 57       |
| 34) Trichloroethene           | 5.850   | 95    | 4615     | 2.269    | ug/L   | 87       |
| 42) Toluene                   | 7.326   | 91    | 27051    | 3.427    | ug/L   | 99       |
| 52) Ethylbenzene              | 8.953   | 91    | 43023    | 4.885    | ug/L   | 96       |
| 53) m,p-Xylene                | 9.078   | 106   | 31072    | 9.634    | ug/L   | 98       |
| 54) o-Xylene                  | 9.487   | 106   | 19287    | 6.302    | ug/L   | 98       |
| 60) Isopropylbenzene          | 9.873   | 105   | 6764     | 0.794    | ug/L   | 94       |
| 62) 1,3,5-Trimethylbenzene    | 10.484  | 105   | 20376    | 2.895    | ug/L   | 93       |
| 63) 1,2,4-Trimethylbenzene    | 10.860  | 105   | 150990   | 23.023   | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.586  | 146   | 4289     | 0.995    | ug/L # | 88       |
| 71) Naphthalene               | 13.448  | 128   | 13088    | 1.812    | ug/L   | 99       |
| -----                         |         |       |          |          |        |          |

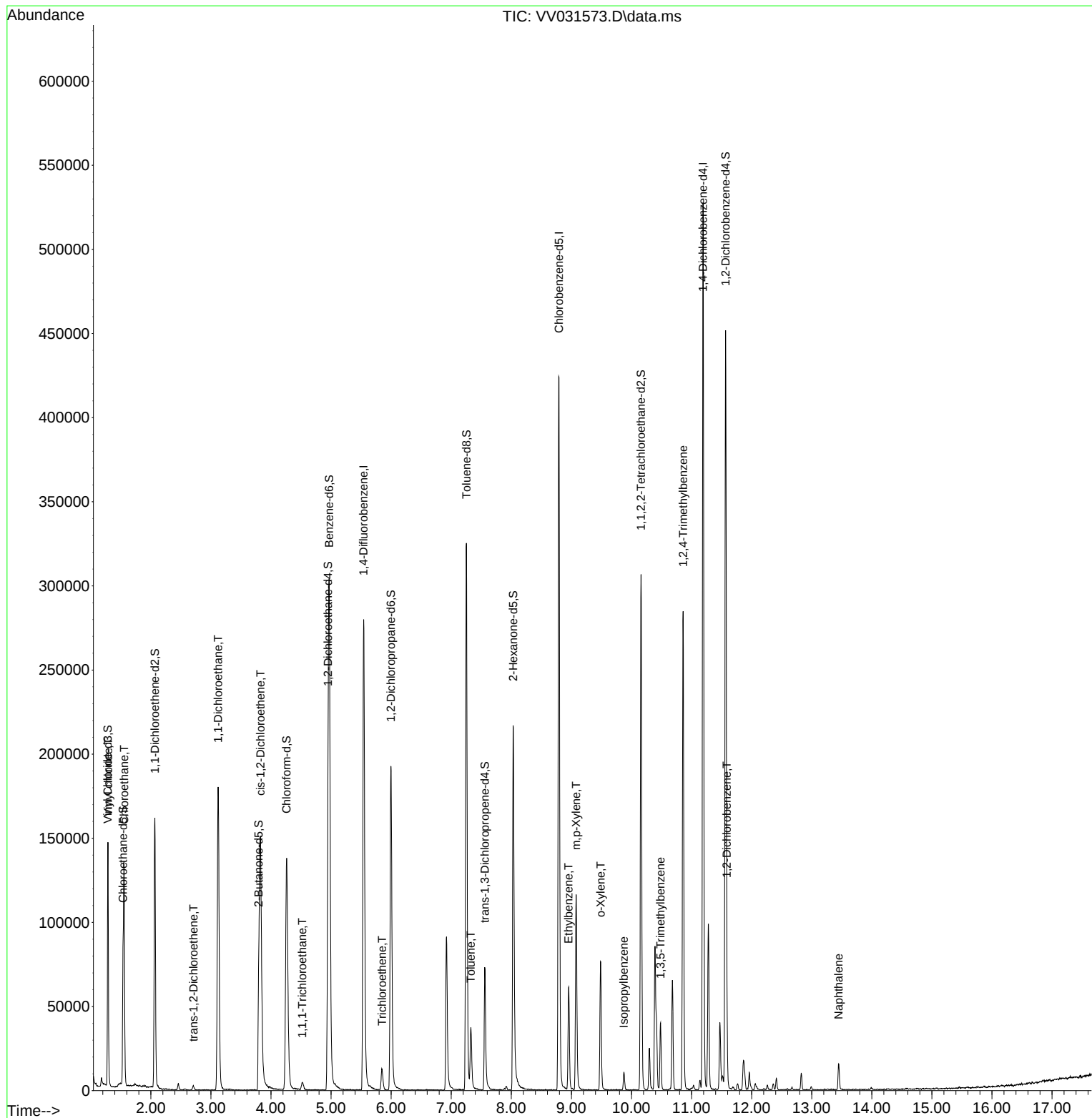
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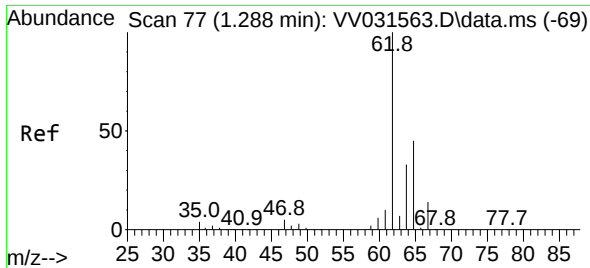
**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
EXYS5DL

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV061623\  
Data File : VV031573.D  
Acq On : 16 Jun 2023 14:00  
Operator : SY/MD  
Sample : 03249-03DL 20X  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 13 Sample Multiplier: 1

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Quant Time: Jun 17 02:28:45 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM061423WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jun 17 02:08:04 2023  
Response via : Initial Calibration

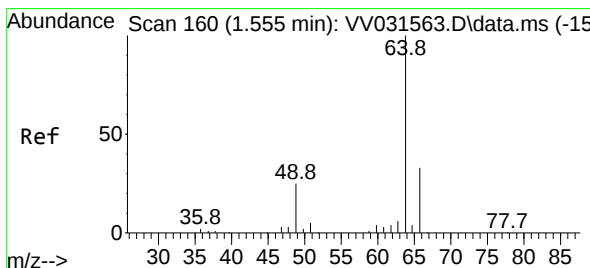
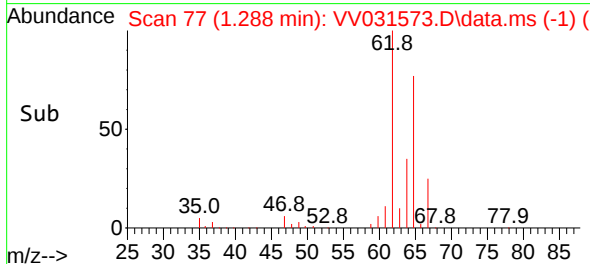
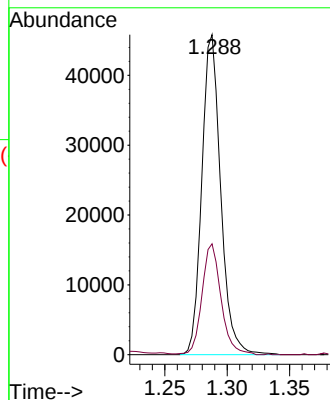
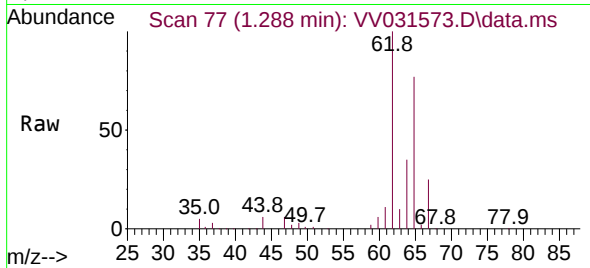




#5  
 Vinyl chloride  
 Concen: 21.550 ug/L  
 RT: 1.288 min Scan# 77  
 Delta R.T. -0.000 min  
 Lab File: VV031573.D  
 Acq: 16 Jun 2023 14:00

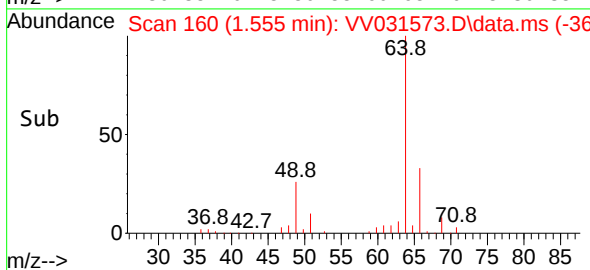
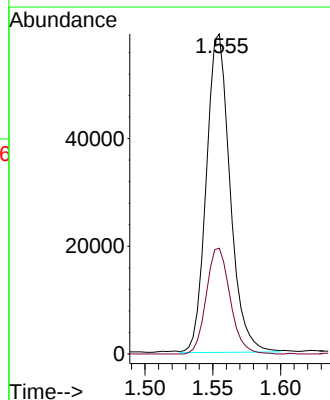
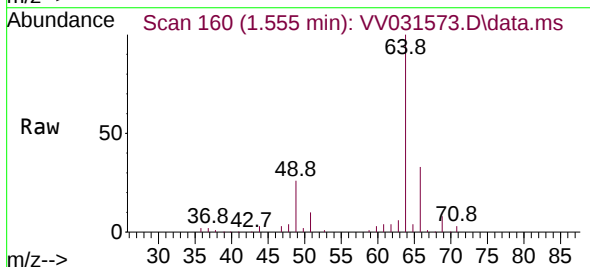
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 EXYS5DL

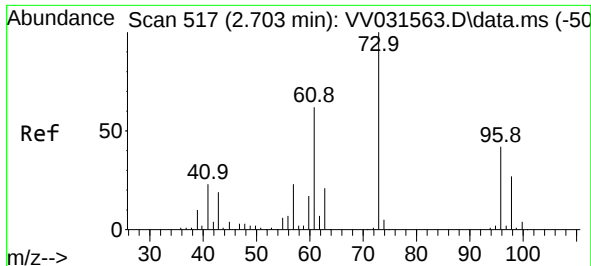
Tgt Ion: 62 Resp: 48342  
 Ion Ratio Lower Upper  
 62 100  
 64 34.6 23.4 43.4



#8  
 Chloroethane  
 Concen: 49.787 ug/L  
 RT: 1.555 min Scan# 160  
 Delta R.T. -0.000 min  
 Lab File: VV031573.D  
 Acq: 16 Jun 2023 14:00

Tgt Ion: 64 Resp: 72133  
 Ion Ratio Lower Upper  
 64 100  
 66 33.1 21.0 39.0





#17

trans-1,2-Dichloroethene

Concen: 0.612 ug/L

RT: 2.709 min Scan# 517

Delta R.T. 0.006 min

Lab File: VV031573.D

Acq: 16 Jun 2023 14:00

Instrument :

MSVOA\_V

ClientSampleId :

EXYS5DL

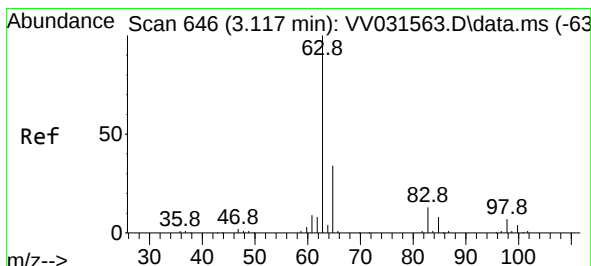
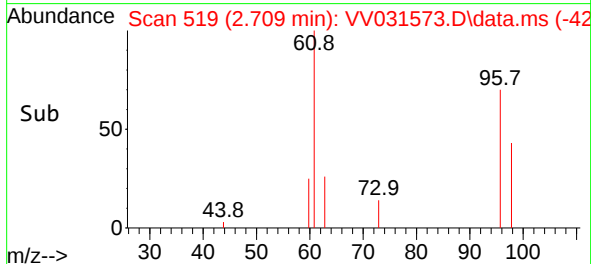
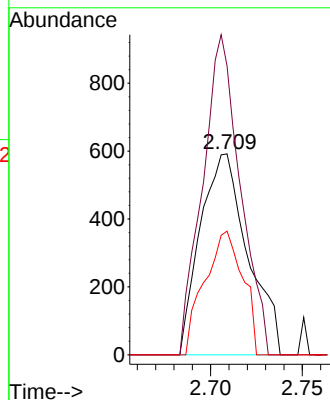
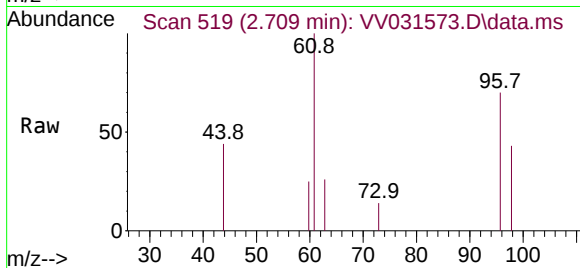
Tgt Ion: 96 Resp: 1068

Ion Ratio Lower Upper

96 100

61 143.6 102.5 190.3

98 61.5 44.1 81.9



#19

1,1-Dichloroethane

Concen: 49.547 ug/L

RT: 3.121 min Scan# 647

Delta R.T. 0.003 min

Lab File: VV031573.D

Acq: 16 Jun 2023 14:00

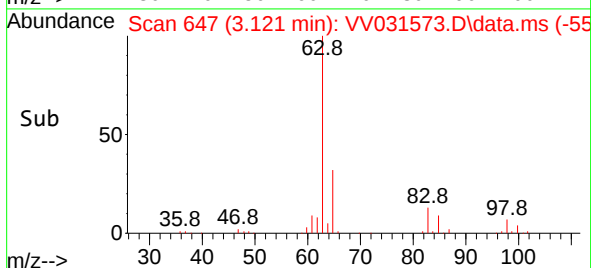
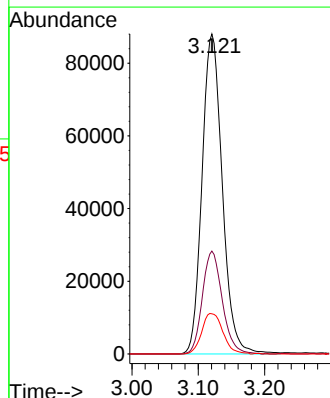
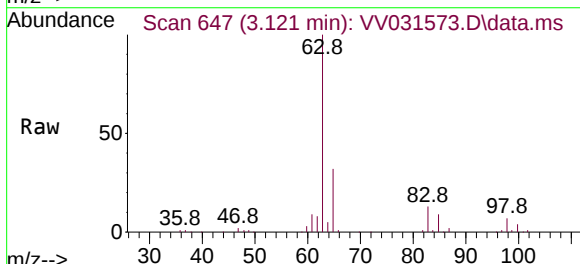
Tgt Ion: 63 Resp: 186735

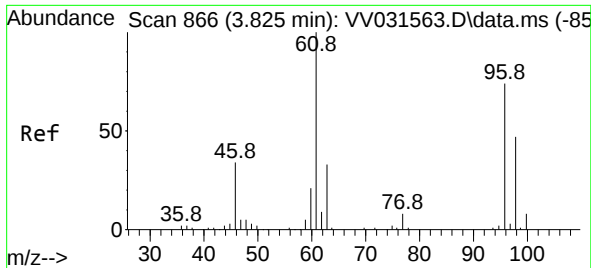
Ion Ratio Lower Upper

63 100

65 32.1 22.5 41.7

83 13.3 10.0 18.6

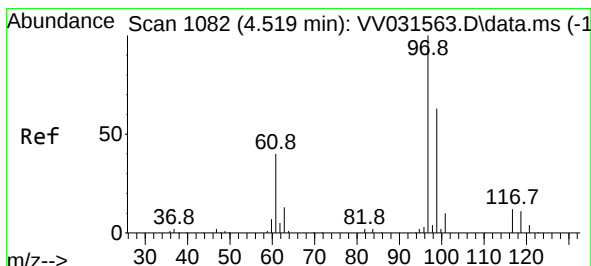
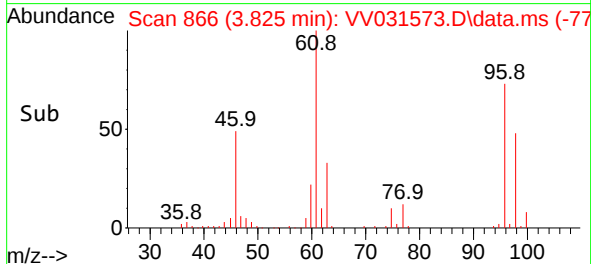
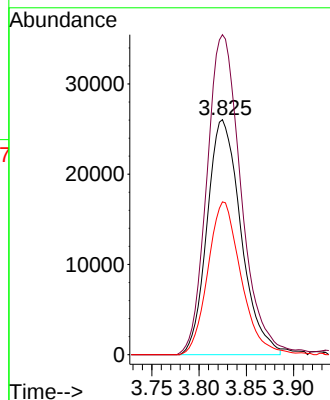
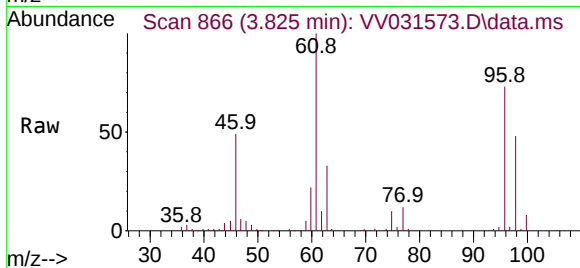




#20  
 cis-1,2-Dichloroethene  
 Concen: 34.351 ug/L  
 RT: 3.825 min Scan# 866  
 Delta R.T. -0.000 min  
 Lab File: VV031573.D  
 Acq: 16 Jun 2023 14:00

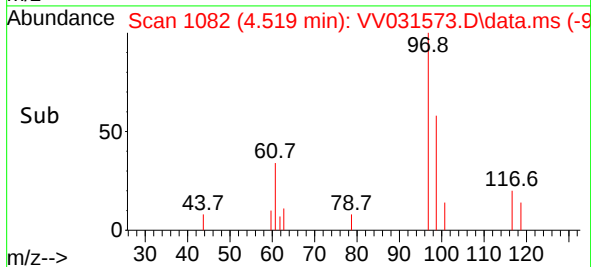
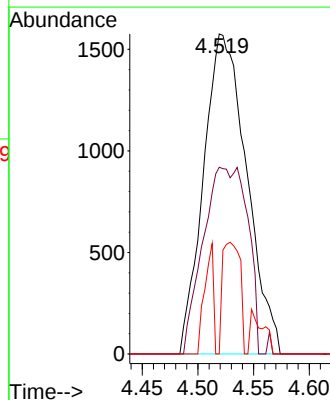
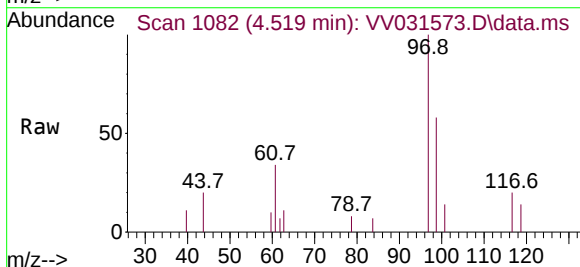
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
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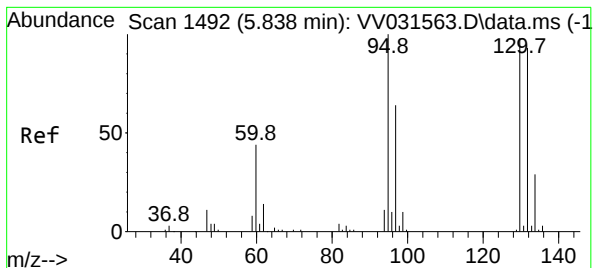
Tgt Ion: 96 Resp: 64825  
 Ion Ratio Lower Upper  
 96 100  
 61 132.0 98.6 183.0  
 98 63.0 45.7 84.9



#30  
 1,1,1-Trichloroethane  
 Concen: 1.158 ug/L  
 RT: 4.519 min Scan# 1082  
 Delta R.T. -0.000 min  
 Lab File: VV031573.D  
 Acq: 16 Jun 2023 14:00

Tgt Ion: 97 Resp: 4244  
 Ion Ratio Lower Upper  
 97 100  
 99 37.3 51.8 77.6#  
 61 7.0 33.0 49.6#





#34

Trichloroethene

Concen: 2.269 ug/L

RT: 5.850 min Scan# 1496

Delta R.T. 0.013 min

Lab File: VV031573.D

Acq: 16 Jun 2023 14:00

Instrument :

MSVOA\_V

ClientSampleId :

EXYS5DL

Tgt Ion: 95 Resp: 4615

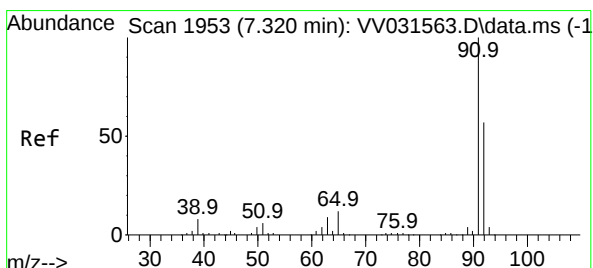
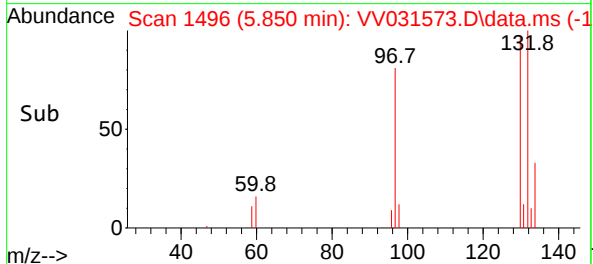
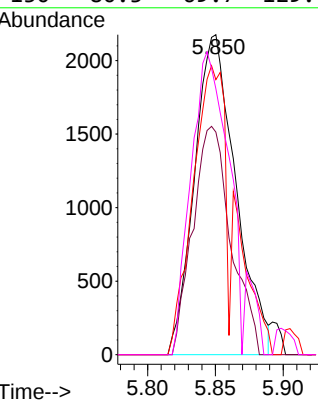
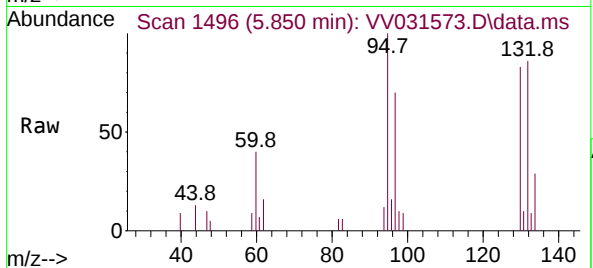
Ion Ratio Lower Upper

95 100

97 68.8 46.8 86.8

132 81.7 66.4 123.2

130 80.3 69.7 129.4



#42

Toluene

Concen: 3.427 ug/L

RT: 7.326 min Scan# 1955

Delta R.T. 0.006 min

Lab File: VV031573.D

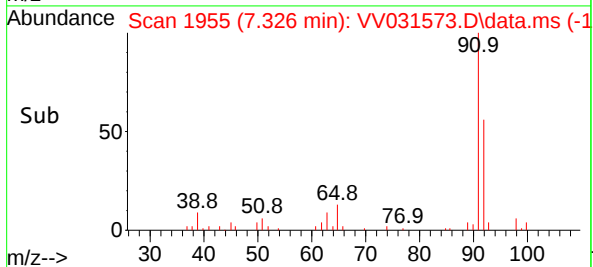
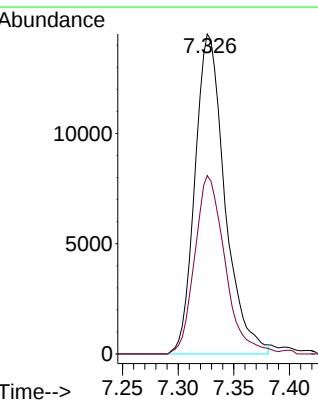
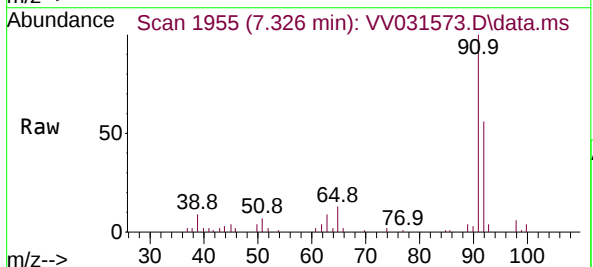
Acq: 16 Jun 2023 14:00

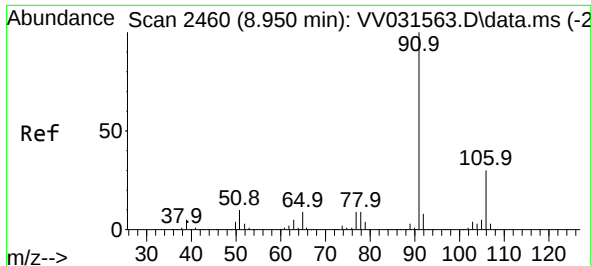
Tgt Ion: 91 Resp: 27051

Ion Ratio Lower Upper

91 100

92 55.8 39.6 73.6





#52

Ethylbenzene

Concen: 4.885 ug/L

RT: 8.953 min Scan# 2460

Delta R.T. 0.003 min

Lab File: VV031573.D

Acq: 16 Jun 2023 14:00

Instrument :

MSVOA\_V

ClientSampleId :

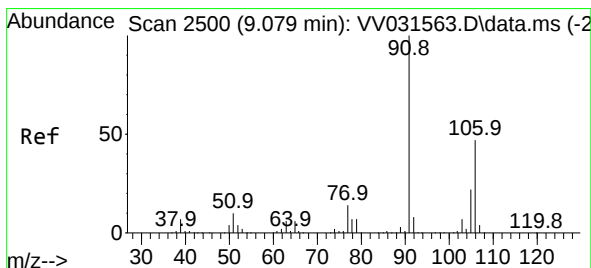
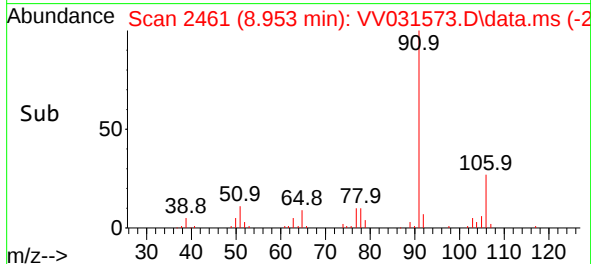
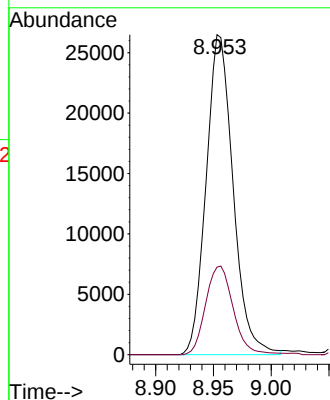
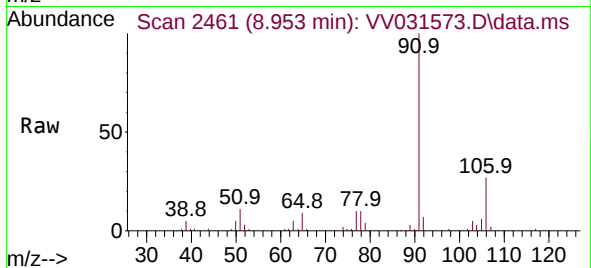
EXYS5DL

Tgt Ion: 91 Resp: 43023

Ion Ratio Lower Upper

91 100

106 27.4 20.8 38.6



#53

m,p-Xylene

Concen: 9.634 ug/L

RT: 9.078 min Scan# 2500

Delta R.T. -0.000 min

Lab File: VV031573.D

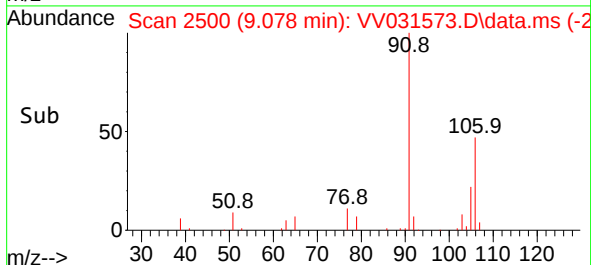
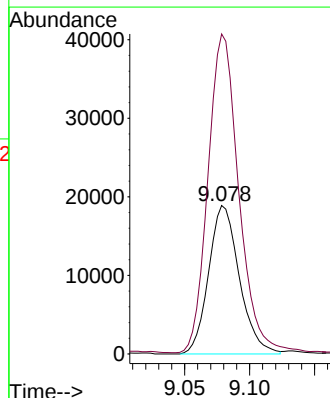
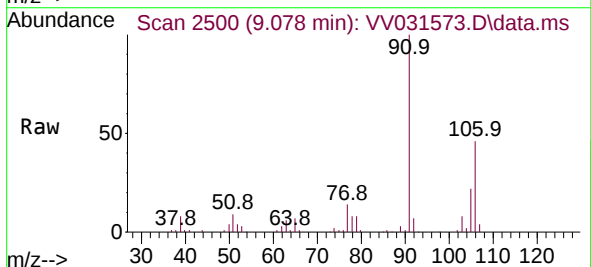
Acq: 16 Jun 2023 14:00

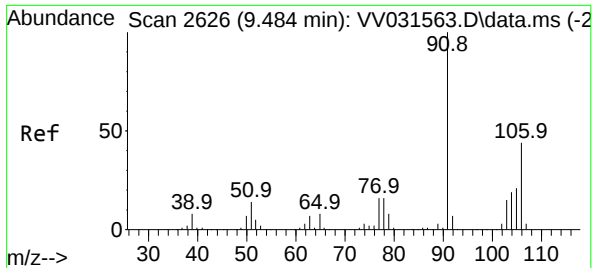
Tgt Ion: 106 Resp: 31072

Ion Ratio Lower Upper

106 100

91 215.5 149.0 276.6

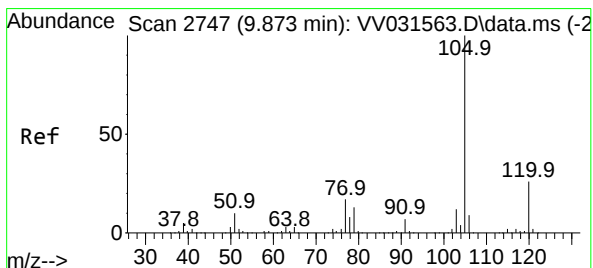
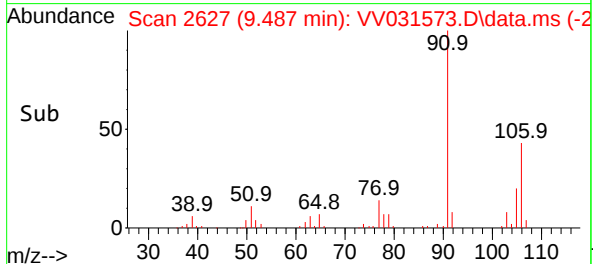
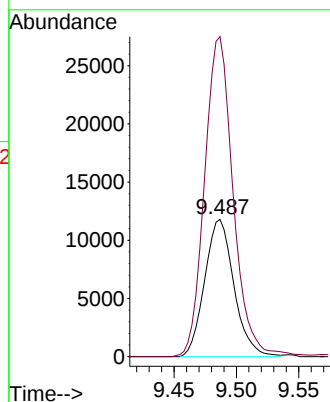
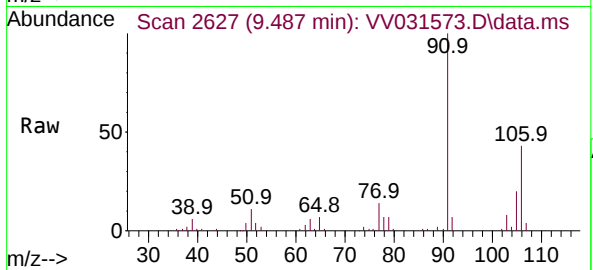




#54  
o-Xylene  
Concen: 6.302 ug/L  
RT: 9.487 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV031573.D  
Acq: 16 Jun 2023 14:00

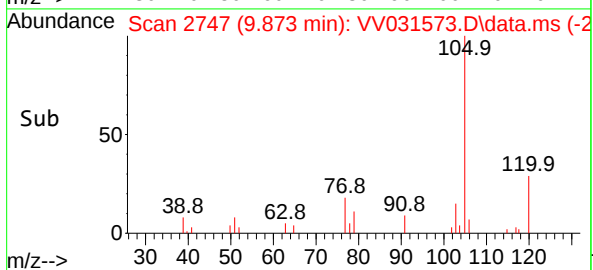
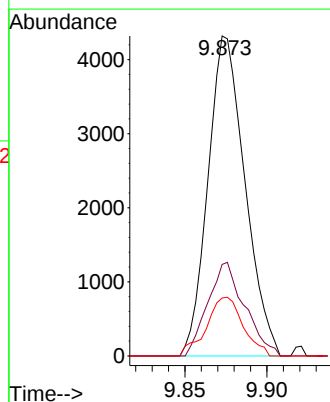
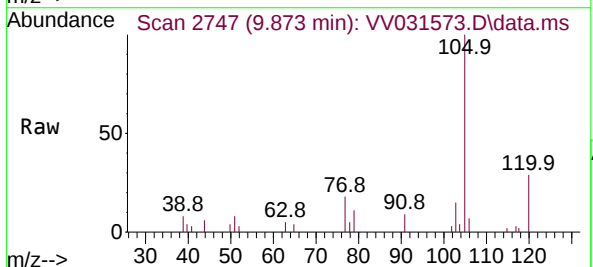
Instrument :  
MSVOA\_V  
ClientSampleId :  
EXYS5DL

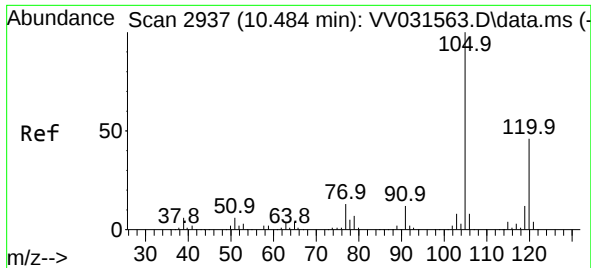
Tgt Ion:106 Resp: 19287  
Ion Ratio Lower Upper  
106 100  
91 233.0 161.3 299.7



#60  
Isopropylbenzene  
Concen: 0.794 ug/L  
RT: 9.873 min Scan# 2747  
Delta R.T. -0.000 min  
Lab File: VV031573.D  
Acq: 16 Jun 2023 14:00

Tgt Ion:105 Resp: 6764  
Ion Ratio Lower Upper  
105 100  
120 29.1 20.2 30.2  
77 18.1 13.5 20.3

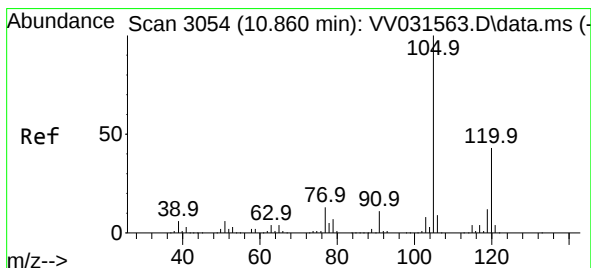
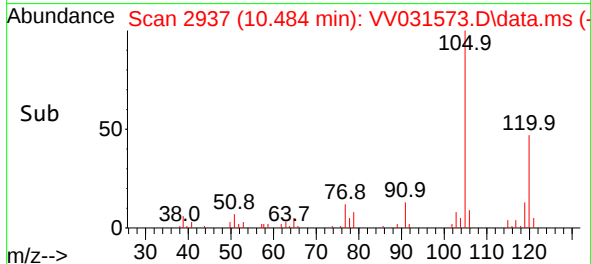
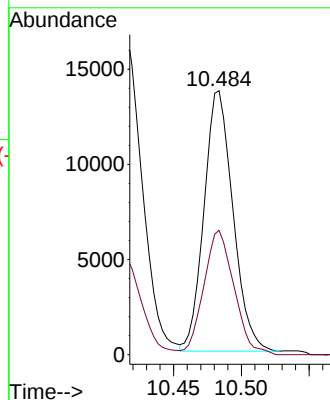
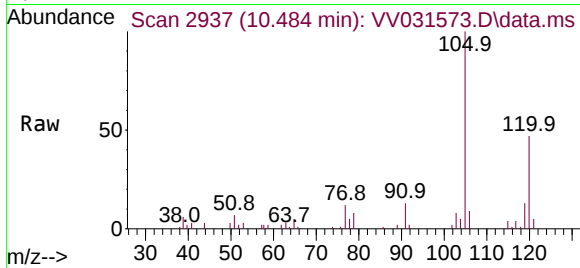




#62  
1,3,5-Trimethylbenzene  
Concen: 2.895 ug/L  
RT: 10.484 min Scan# 2937  
Delta R.T. -0.000 min  
Lab File: VV031573.D  
Acq: 16 Jun 2023 14:00

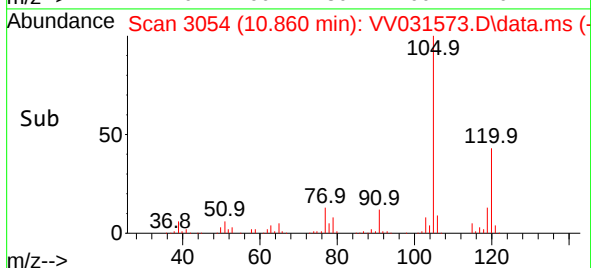
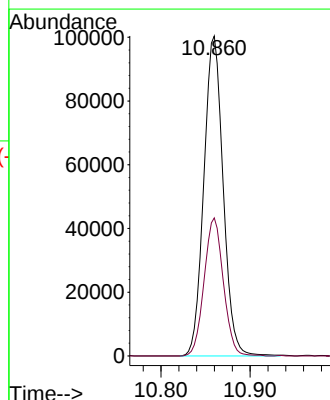
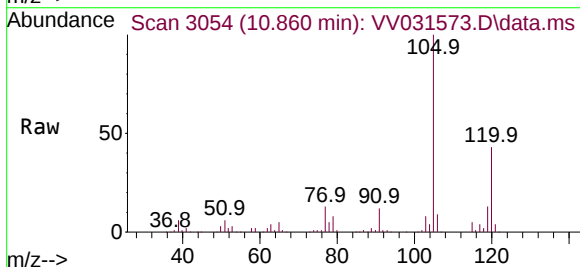
Instrument :  
MSVOA\_V  
ClientSampleId :  
EXYS5DL

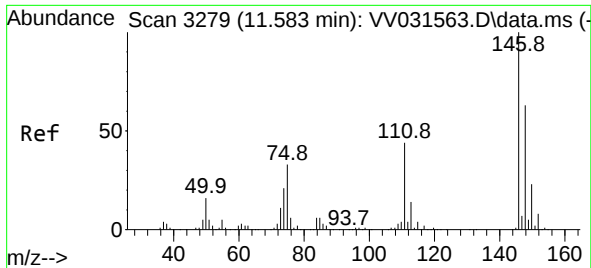
Tgt Ion:105 Resp: 20376  
Ion Ratio Lower Upper  
105 100  
120 49.8 36.2 54.2



#63  
1,2,4-Trimethylbenzene  
Concen: 23.023 ug/L  
RT: 10.860 min Scan# 3054  
Delta R.T. -0.000 min  
Lab File: VV031573.D  
Acq: 16 Jun 2023 14:00

Tgt Ion:105 Resp: 150990  
Ion Ratio Lower Upper  
105 100  
120 42.9 33.4 50.2





#67

1,2-Dichlorobenzene

Concen: 0.995 ug/L

RT: 11.586 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV031573.D

Acq: 16 Jun 2023 14:00

Instrument :

MSVOA\_V

ClientSampleId :

EXYS5DL

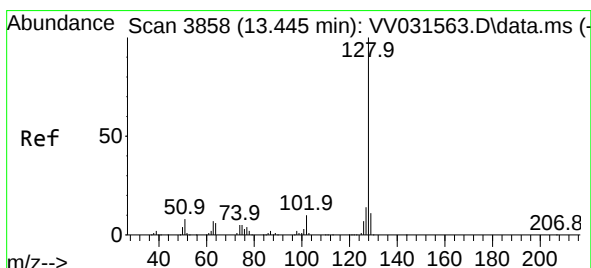
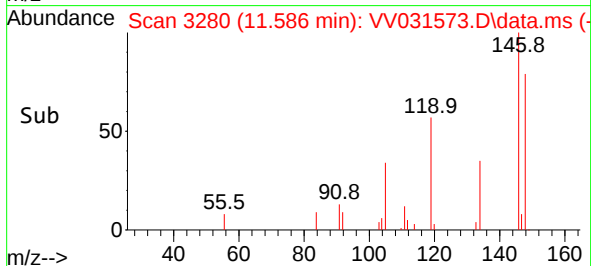
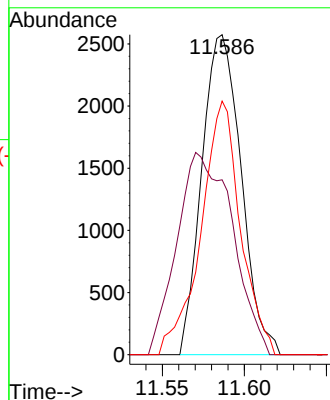
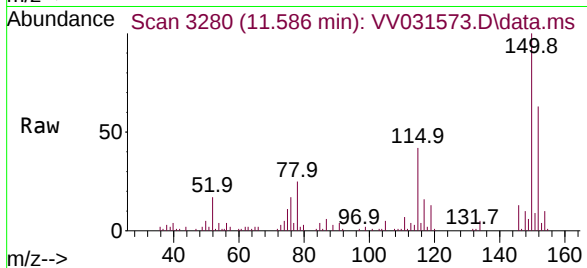
Tgt Ion:146 Resp: 4289

Ion Ratio Lower Upper

146 100

111 55.6 35.9 53.9#

148 73.2 52.6 78.8



#71

Naphthalene

Concen: 1.812 ug/L

RT: 13.448 min Scan# 3859

Delta R.T. 0.003 min

Lab File: VV031573.D

Acq: 16 Jun 2023 14:00

Tgt Ion:128 Resp: 13088

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

129 10.4 8.6 13.0

