

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121423\
 Data File : VD077874.D
 Acq On : 14 Dec 2023 10:56
 Operator : RP/MD
 Sample : 05788-01
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 DCLY1

Quant Time: Dec 15 07:12:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM112923SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Dec 06 00:24:24 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	268531	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	240763	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.522	152	117862	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.281	65	131987	18.024	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.080%
7) Chloroethane-d5	2.805	69	126599	21.689	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.760%
11) 1,1-Dichloroethene-d2	3.928	65	35887	18.900	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.600%
21) 2-Butanone-d5	6.987	46	43972	47.511	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.020%
24) Chloroform-d	7.575	84	186194	25.727	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	102.920%
26) 1,2-Dichloroethane-d4	8.234	65	91974	25.082	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.320%
32) Benzene-d6	8.204	84	364349	25.127	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.520%
36) 1,2-Dichloropropane-d6	9.210	67	111807	25.271	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.080%
41) Toluene-d8	10.269	98	336452	25.209	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	100.840%
43) trans-1,3-Dichloroprop...	10.528	79	48647	24.865	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.440%
47) 2-Hexanone-d5	10.875	63	40293	52.851	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.700%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	91349	28.572	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	114.280%
66) 1,2-Dichlorobenzene-d4	13.816	152	104889	24.876	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.520%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	3.952	96	132712	36.332	ug/L	90
13) Acetone	4.028	43	76367	64.401	ug/L	95
16) Methylene chloride	4.805	84	108641	22.785	ug/L	92
17) trans-1,2-Dichloroethene	5.322	96	300831	78.990	ug/L	97
18) Methyl tert-butyl Ether	5.322	73	614106	73.148	ug/L	97
19) 1,1-Dichloroethane	6.116	63	162781	22.678	ug/L	99
20) cis-1,2-Dichloroethene	7.087	96	182302	43.076	ug/L	94
22) 2-Butanone	7.087	43	172800	129.473	ug/L #	58
25) Chloroform	7.599	83	196629	27.825	ug/L	96
27) 1,2-Dichloroethane	8.328	62	257379	58.228	ug/L	97
33) Benzene	8.251	78	1253747	80.005	ug/L	100
34) Trichloroethene	9.028	95	368111	94.630	ug/L	98
37) 1,2-Dichloropropane	9.304	63	344700	84.365	ug/L	100
39) cis-1,3-Dichloropropene	10.016	75	298035	46.710	ug/L	94
40) 4-Methyl-2-pentanone	10.157	43	153209	67.953	ug/L	94
44) trans-1,3-Dichloropropene	10.551	75	202632	38.022	ug/L	99
46) Tetrachloroethene	10.810	164	69289	22.090	ug/L	95
49) Dibromochloromethane	11.075	129	128151	39.276	ug/L	97
50) 1,2-Dibromoethane	11.181	107	192742	72.833	ug/L	97

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 Quant Title : SFAM01.0
 QLast Update : Wed Dec 06 00:24:24 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

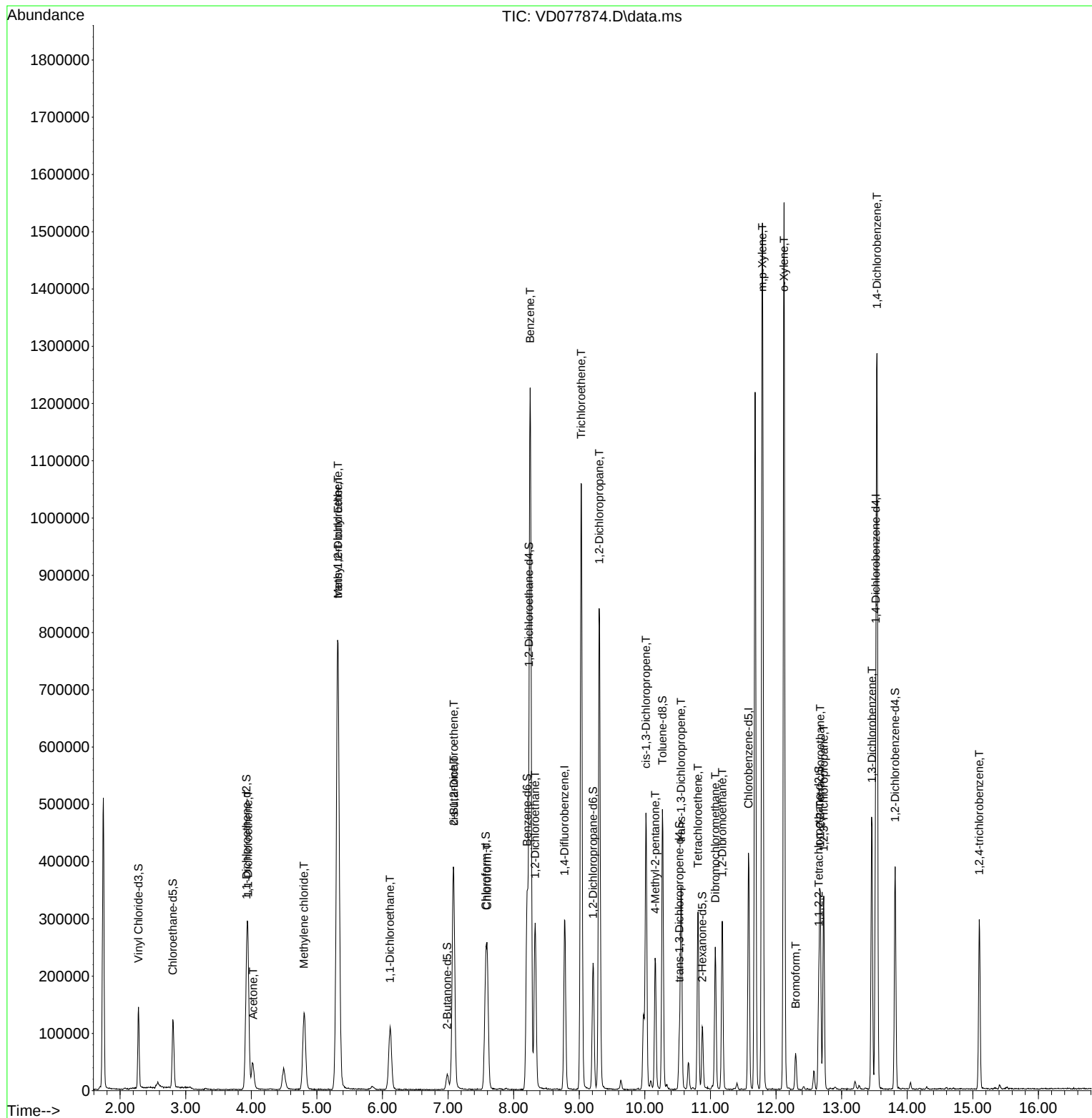
53) m,p-Xylene	11.792	106	493290	70.753	ug/L	98
54) o-Xylene	12.122	106	420548	63.028	ug/L	98
57) 1,1,2,2-Tetrachloroethane	12.675	83	169111	52.011	ug/L	99
59) Bromoform	12.298	173	28317	14.521	ug/L #	98
61) 1,2,3-Trichloropropane	12.728	75	139072	64.149	ug/L	98
64) 1,3-Dichlorobenzene	13.463	146	199692	26.248	ug/L	97
65) 1,4-Dichlorobenzene	13.539	146	505323	64.009	ug/L	98
70) 1,2,4-trichlorobenzene	15.098	180	94748	21.544	ug/L	99

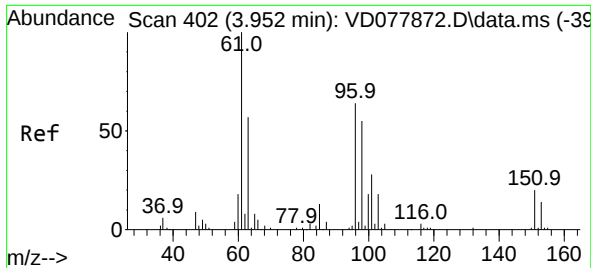
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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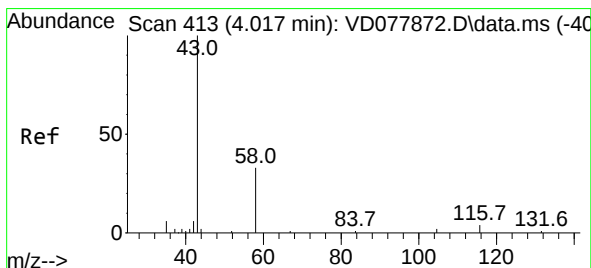
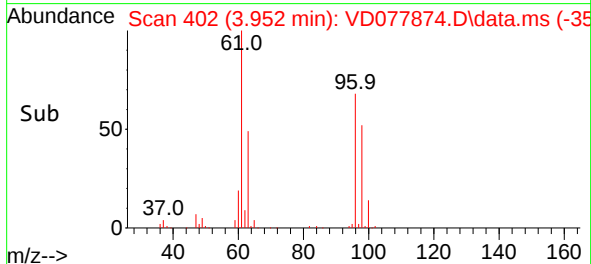
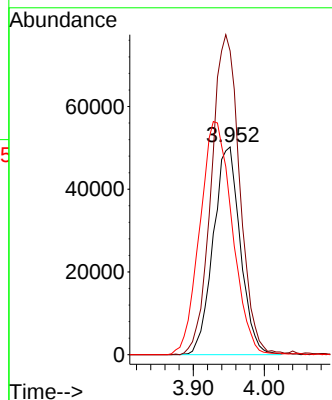
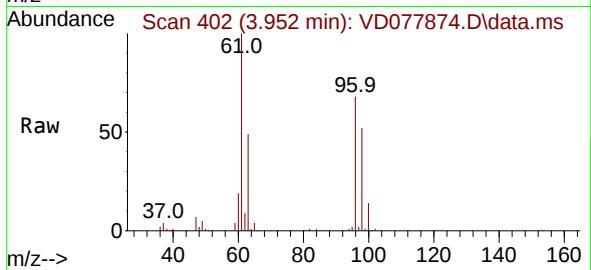




#12
1,1-Dichloroethene
Concen: 36.332 ug/L
RT: 3.952 min Scan# 402
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

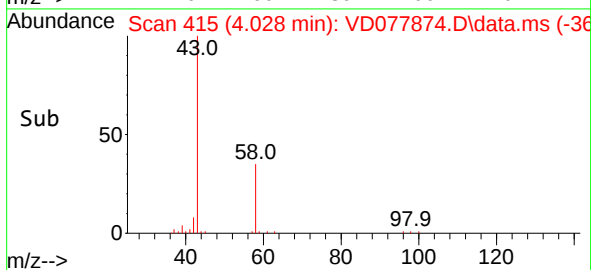
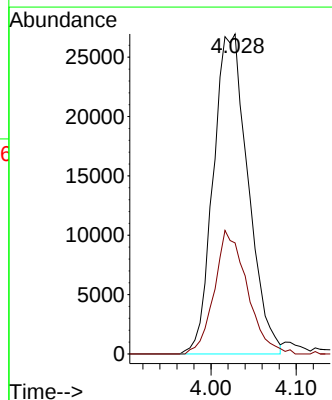
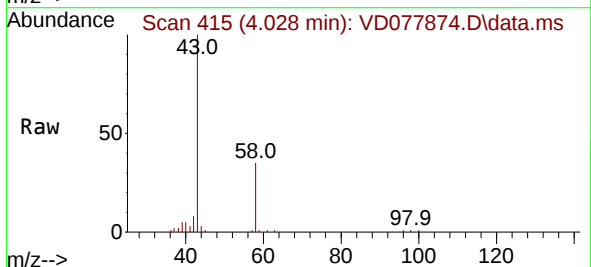
Instrument :
MSVOA_D
ClientSampleId :
DCLY1

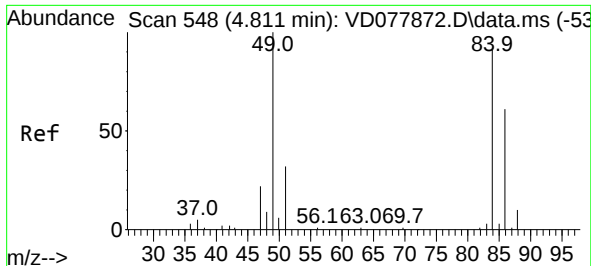
Tgt Ion: 96 Resp: 132712
Ion Ratio Lower Upper
96 100
61 146.2 108.6 201.6
63 71.2 60.3 111.9



#13
Acetone
Concen: 64.401 ug/L
RT: 4.028 min Scan# 415
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion: 43 Resp: 76367
Ion Ratio Lower Upper
43 100
58 36.4 0.0 67.2

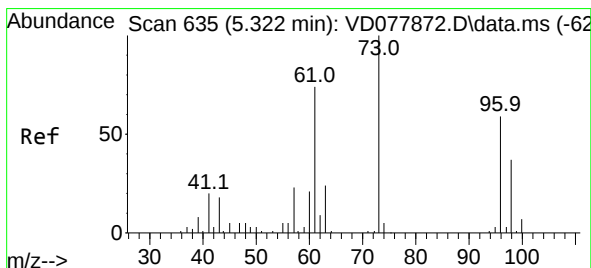
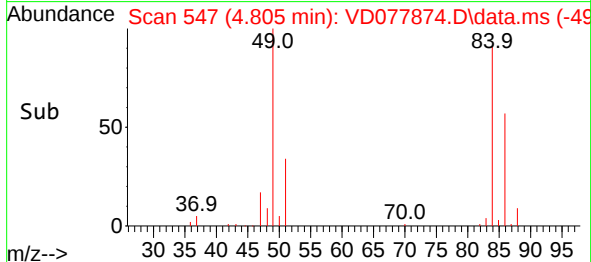
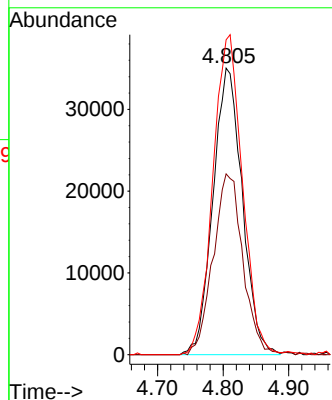
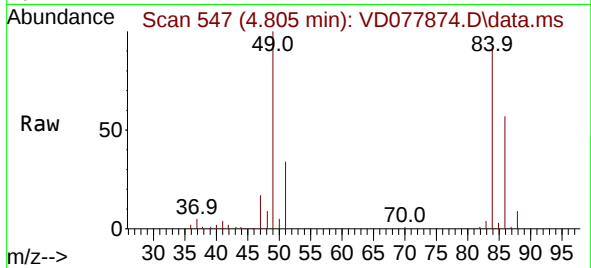




#16
Methylene chloride
Concen: 22.785 ug/L
RT: 4.805 min Scan# 54
Delta R.T. -0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

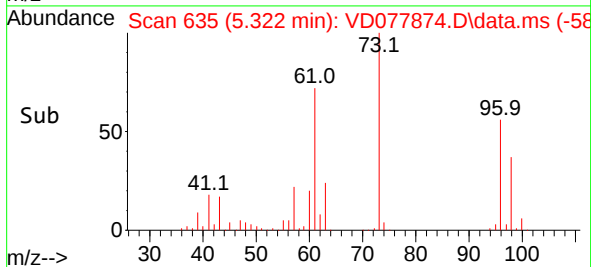
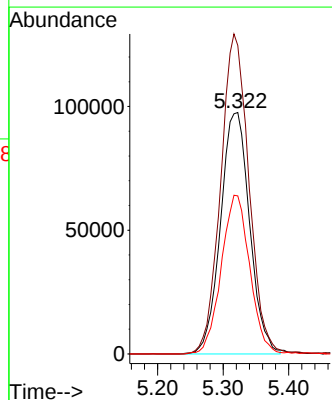
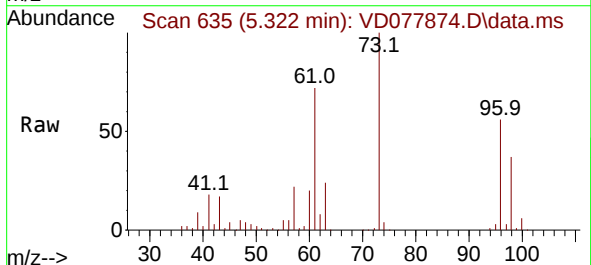
Instrument :
MSVOA_D
ClientSampleId :
DCLY1

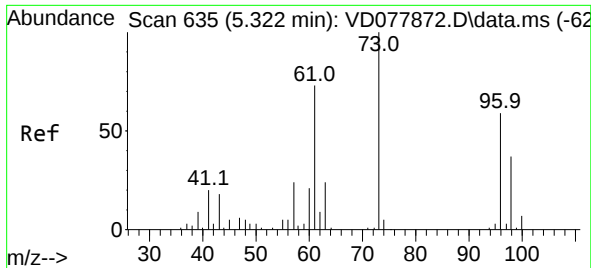
Tgt Ion: 84 Resp: 108641
Ion Ratio Lower Upper
84 100
86 63.1 40.1 74.5
49 109.9 83.2 154.6



#17
trans-1,2-Dichloroethene
Concen: 78.990 ug/L
RT: 5.322 min Scan# 635
Delta R.T. 0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion: 96 Resp: 300831
Ion Ratio Lower Upper
96 100
61 127.7 92.3 171.3
98 65.5 44.7 82.9

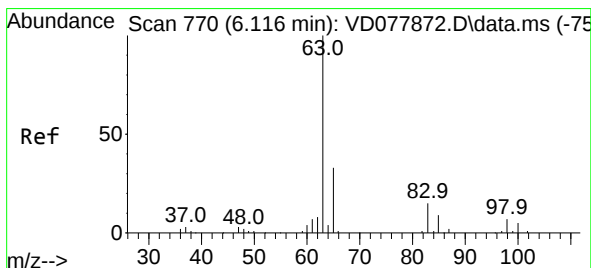
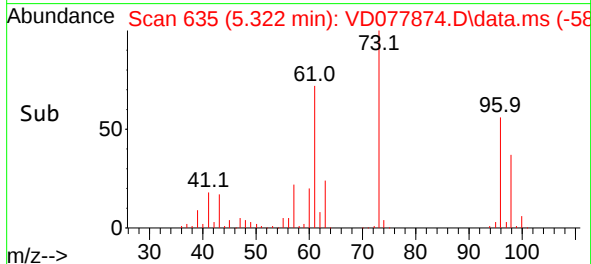
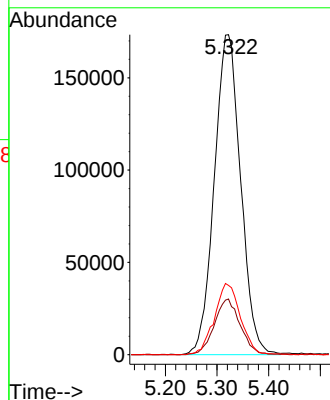
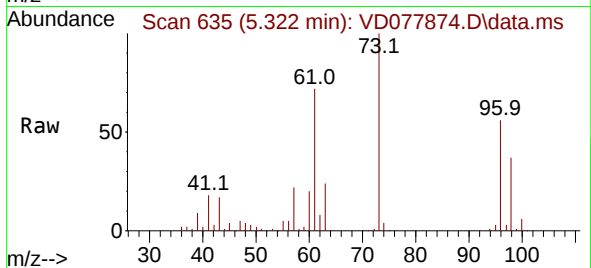




#18
Methyl tert-butyl Ether
Concen: 73.148 ug/L
RT: 5.322 min Scan# 61
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

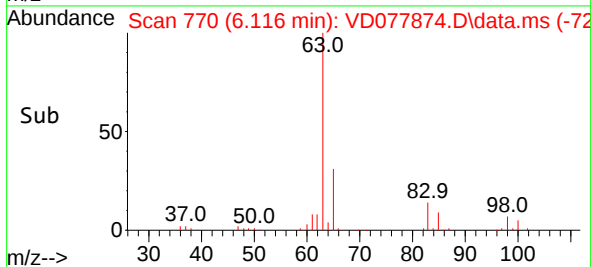
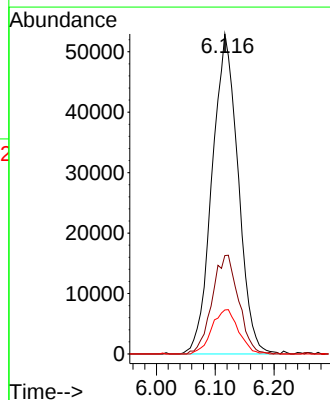
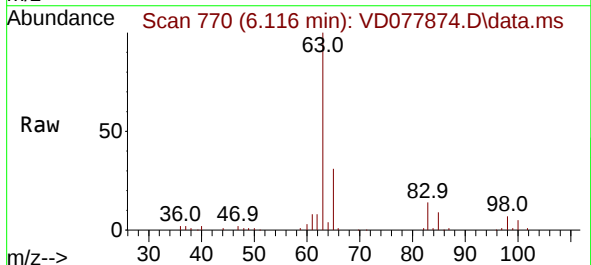
Instrument :
MSVOA_D
ClientSampleId :
DCLY1

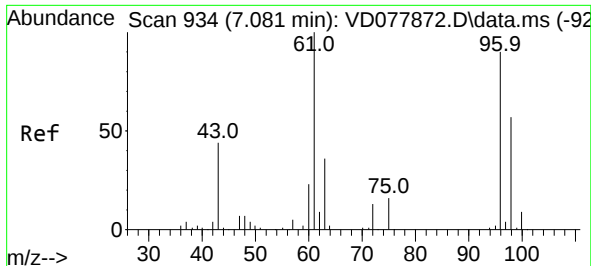
Tgt Ion: 73 Resp: 614106
Ion Ratio Lower Upper
73 100
43 17.0 15.0 22.4
57 21.9 18.1 27.1



#19
1,1-Dichloroethane
Concen: 22.678 ug/L
RT: 6.116 min Scan# 770
Delta R.T. -0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion: 63 Resp: 162781
Ion Ratio Lower Upper
63 100
65 30.8 20.9 38.9
83 13.8 9.7 17.9

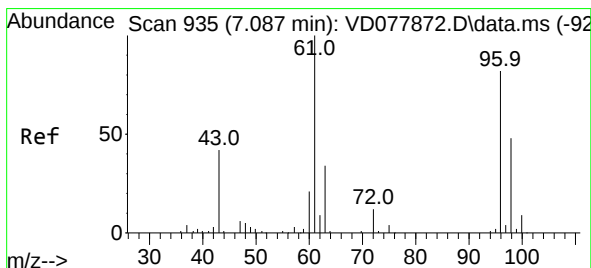
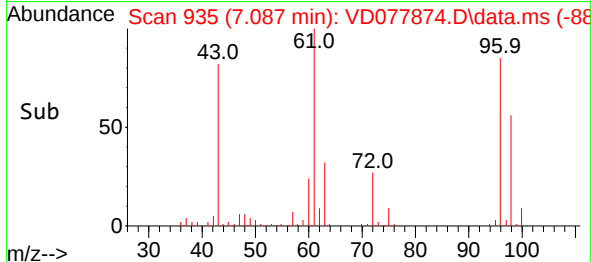
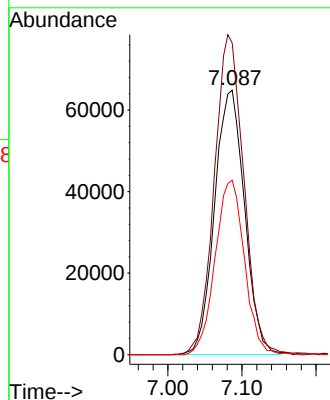
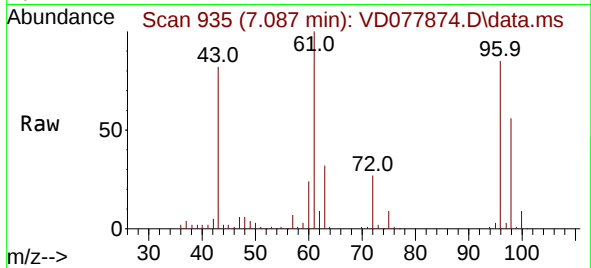




#20
cis-1,2-Dichloroethene
Concen: 43.076 ug/L
RT: 7.087 min Scan# 91
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

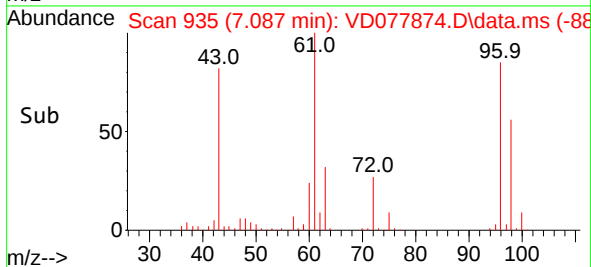
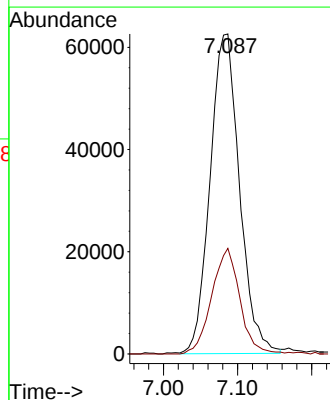
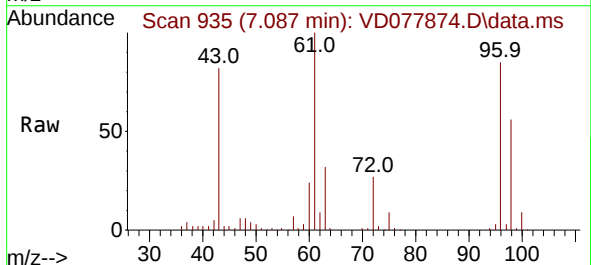
Instrument :
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DCLY1

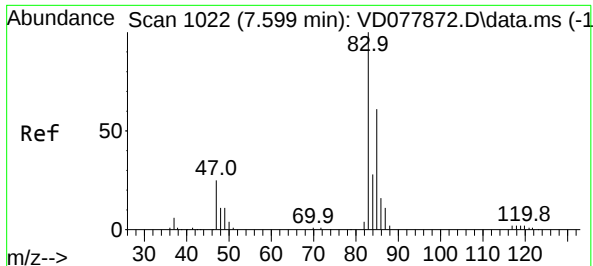
Tgt Ion: 96 Resp: 182302
Ion Ratio Lower Upper
96 100
61 117.9 88.1 163.5
98 65.9 44.1 81.9



#22
2-Butanone
Concen: 129.473 ug/L
RT: 7.087 min Scan# 935
Delta R.T. 0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion: 43 Resp: 172800
Ion Ratio Lower Upper
43 100
72 31.4 7.2 21.6#





#25

Chloroform

Concen: 27.825 ug/L

RT: 7.599 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VD077874.D

Acq: 14 Dec 2023 10:56

Instrument :

MSVOA_D

ClientSampleId :

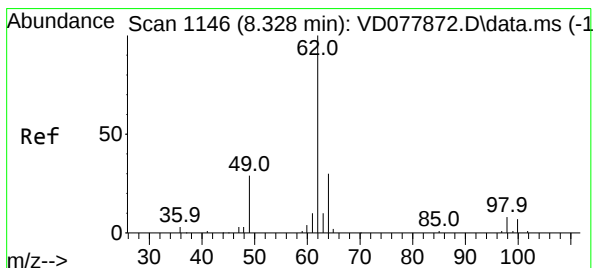
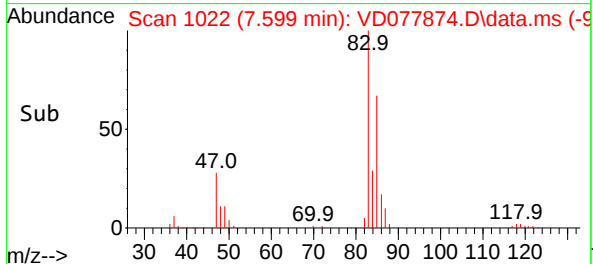
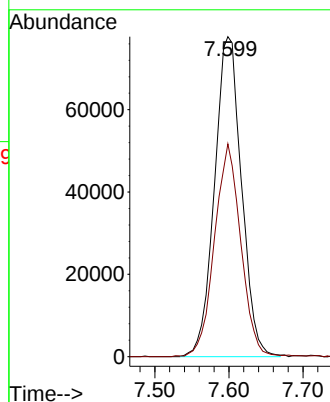
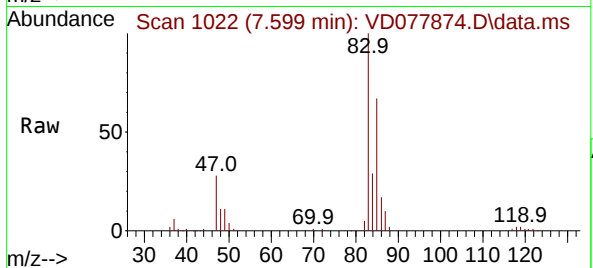
DCLY1

Tgt Ion: 83 Resp: 196629

Ion Ratio Lower Upper

83 100

85 66.5 48.9 90.9



#27

1,2-Dichloroethane

Concen: 58.228 ug/L

RT: 8.328 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VD077874.D

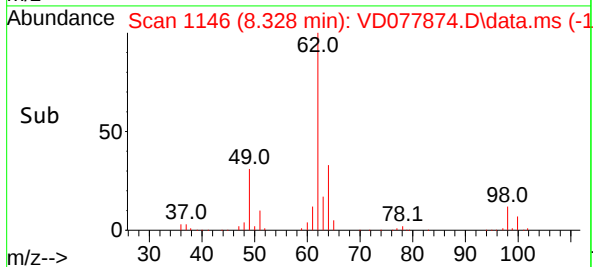
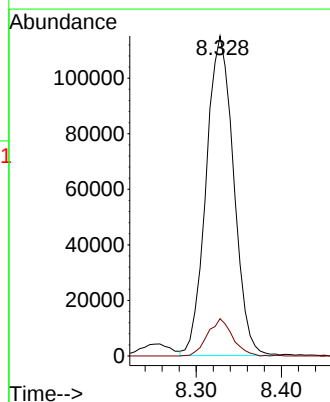
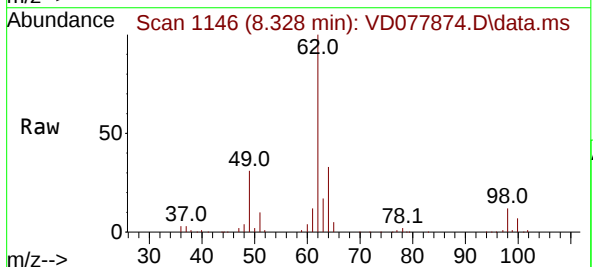
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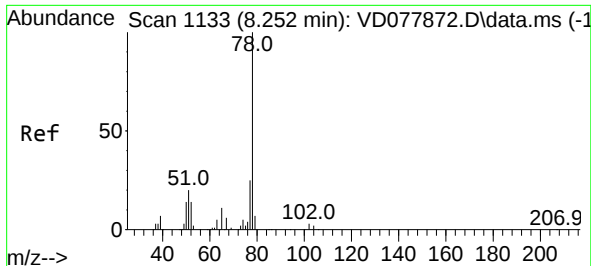
Tgt Ion: 62 Resp: 257379

Ion Ratio Lower Upper

62 100

98 11.7 8.4 12.6

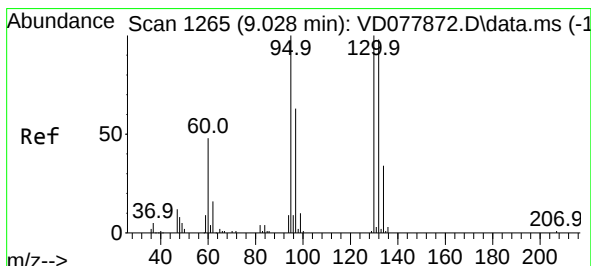
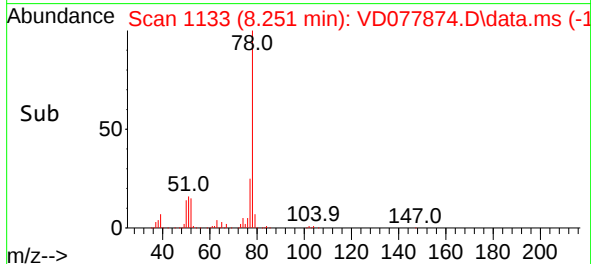
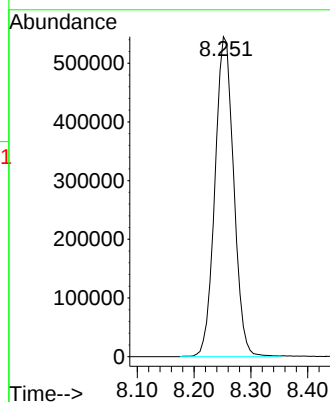
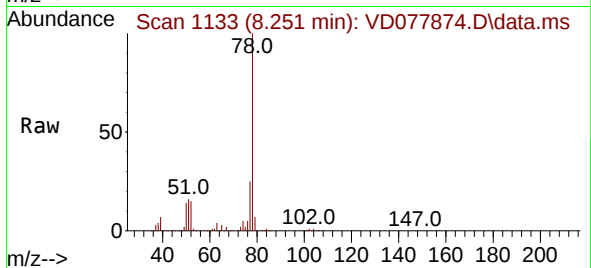




#33
Benzene
Concen: 80.005 ug/L
RT: 8.251 min Scan# 1133
Delta R.T. -0.006 min
Lab File: VD077874.D
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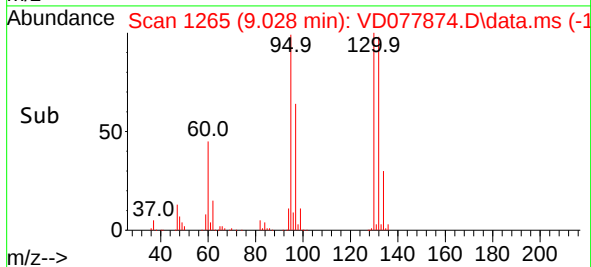
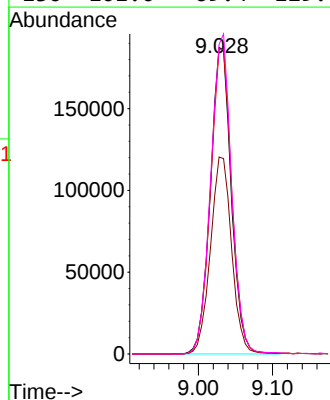
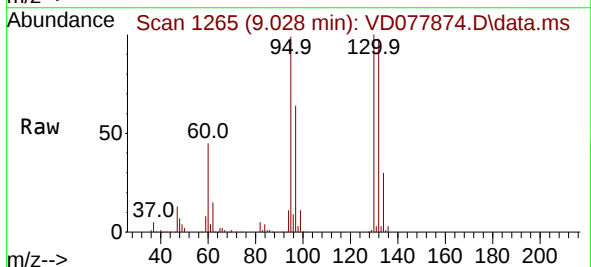
Tgt Ion: 78 Resp: 1253747

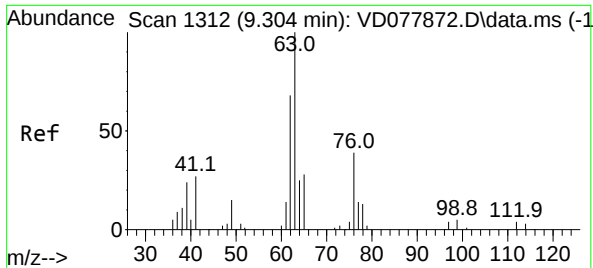


#34
Trichloroethene
Concen: 94.630 ug/L
RT: 9.028 min Scan# 1265
Delta R.T. -0.006 min
Lab File: VD077874.D
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Tgt Ion: 95 Resp: 368111

Ion	Ratio	Lower	Upper
95	100		
97	64.3	44.2	82.0
132	99.4	67.5	125.3
130	101.0	69.4	129.0

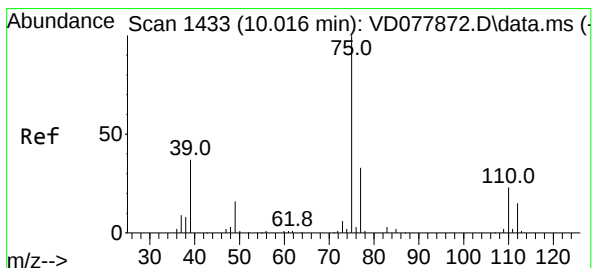
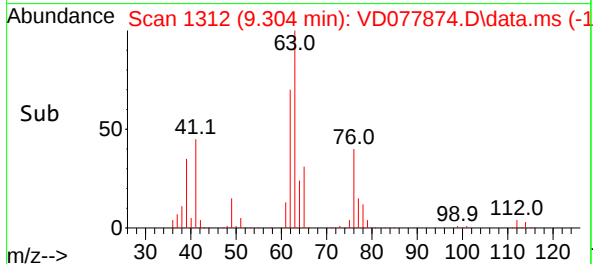
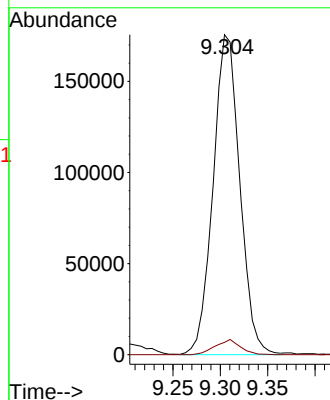
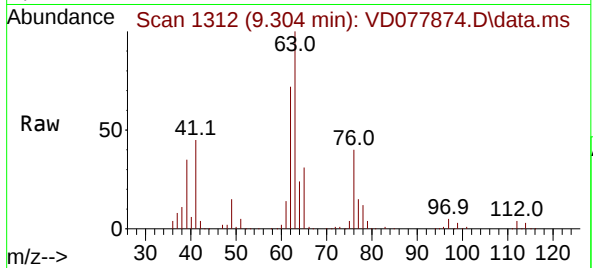




#37
1,2-Dichloropropane
Concen: 84.365 ug/L
RT: 9.304 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

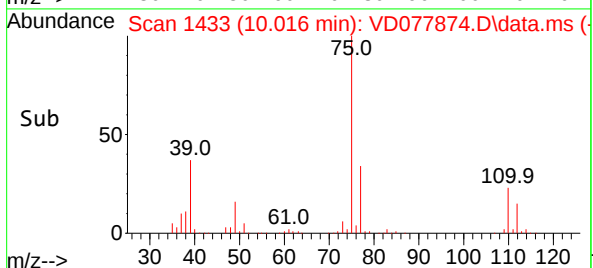
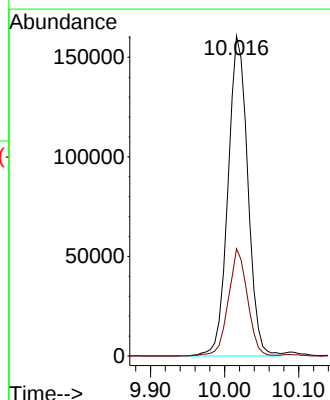
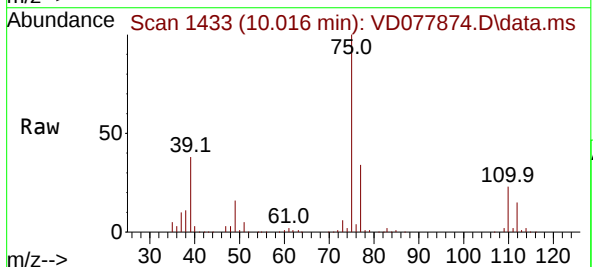
Instrument :
MSVOA_D
ClientSampleId :
DCLY1

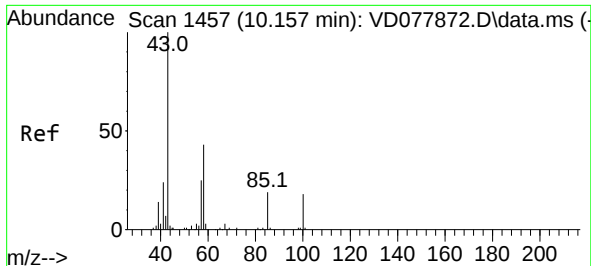
Tgt Ion: 63 Resp: 344700
Ion Ratio Lower Upper
63 100
112 4.4 3.5 5.3



#39
cis-1,3-Dichloropropene
Concen: 46.710 ug/L
RT: 10.016 min Scan# 1433
Delta R.T. -0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion: 75 Resp: 298035
Ion Ratio Lower Upper
75 100
77 33.5 21.2 39.4

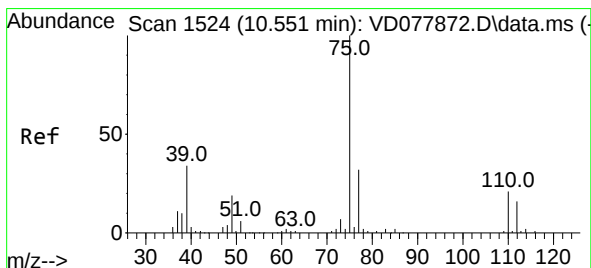
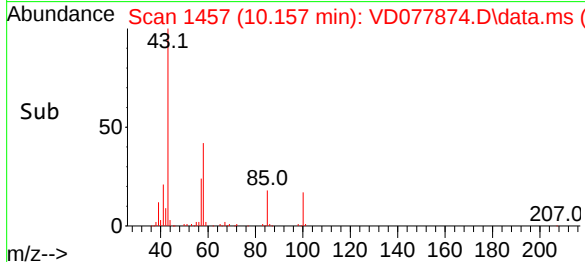
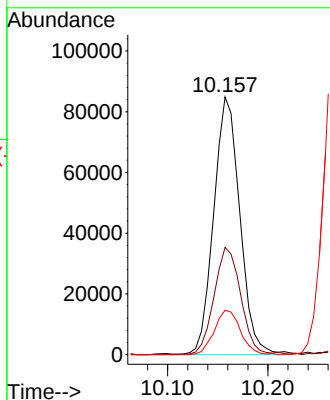
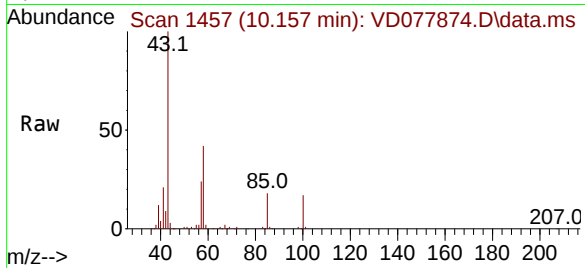




#40
4-Methyl-2-pentanone
Concen: 67.953 ug/L
RT: 10.157 min Scan# 1457
Delta R.T. -0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

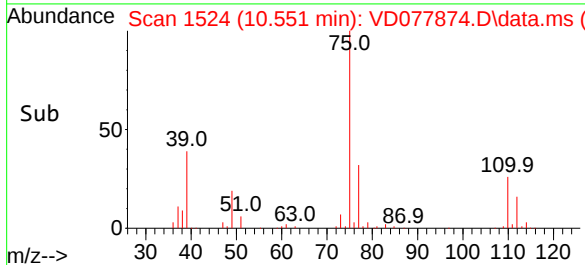
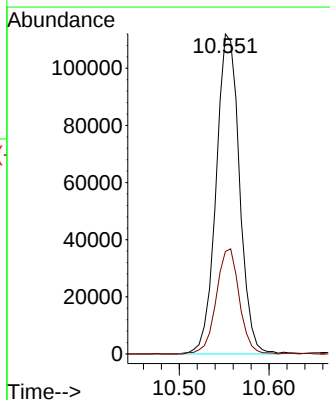
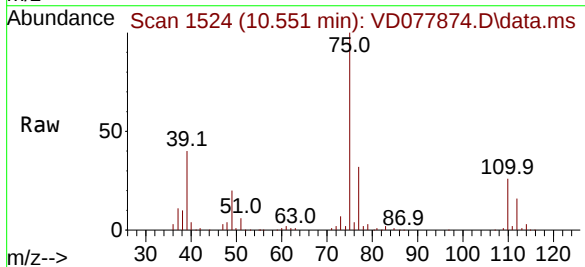
Instrument :
MSVOA_D
ClientSampleId :
DCLY1

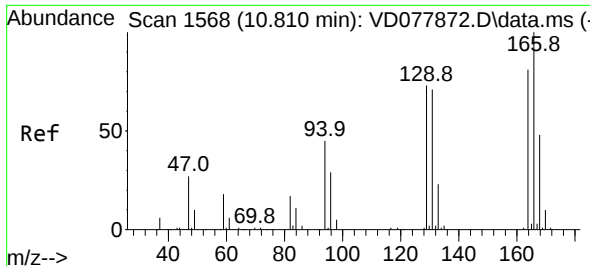
Tgt Ion: 43 Resp: 153209
Ion Ratio Lower Upper
43 100
58 42.4 31.0 46.4
100 17.2 11.9 17.9



#44
trans-1,3-Dichloropropene
Concen: 38.022 ug/L
RT: 10.551 min Scan# 1524
Delta R.T. -0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion: 75 Resp: 202632
Ion Ratio Lower Upper
75 100
77 32.1 22.0 40.8

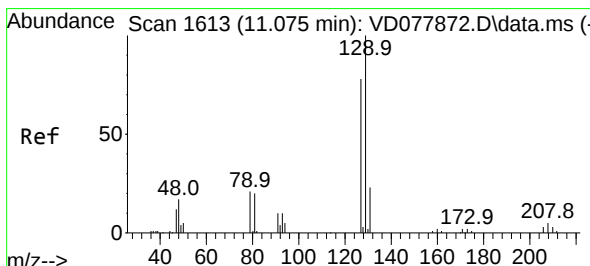
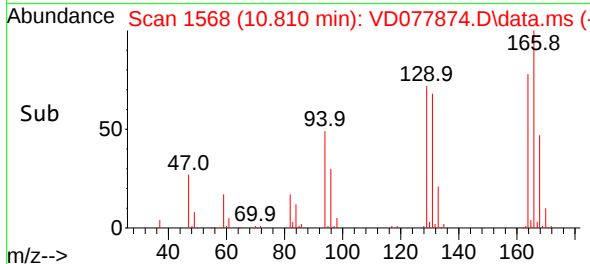
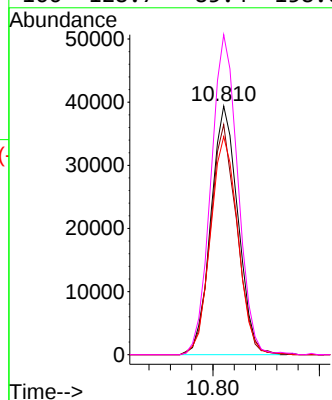
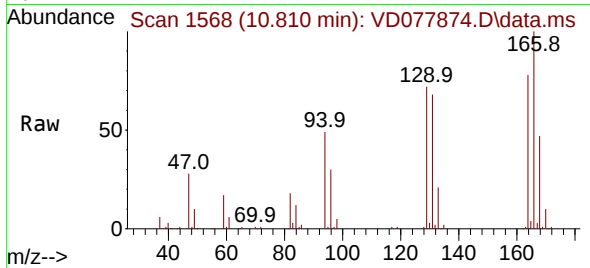




#46
Tetrachloroethene
Concen: 22.090 ug/L
RT: 10.810 min Scan# 1568
Delta R.T. -0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

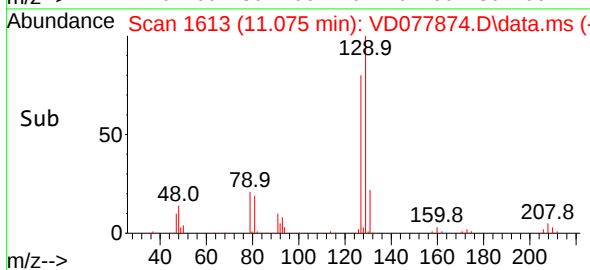
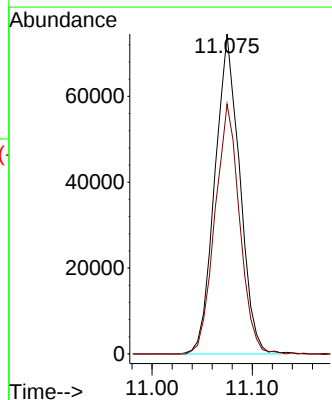
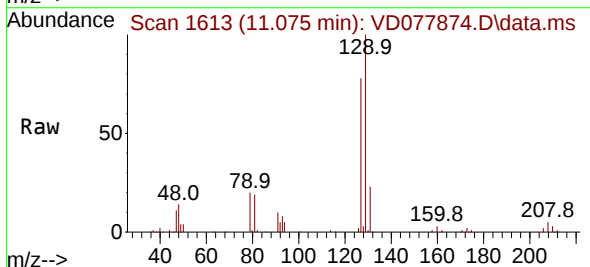
Instrument :
MSVOA_D
ClientSampleId :
DCLY1

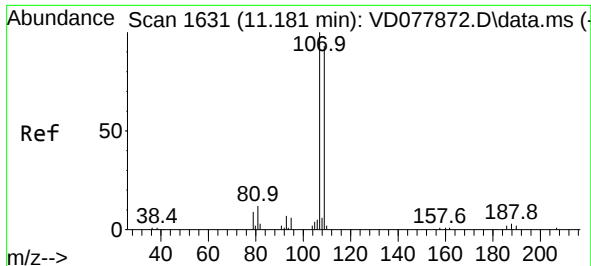
Tgt Ion:164 Resp: 69289
Ion Ratio Lower Upper
164 100
129 92.5 61.5 114.3
131 87.7 59.1 109.9
166 128.7 85.4 158.6



#49
Dibromochloromethane
Concen: 39.276 ug/L
RT: 11.075 min Scan# 1613
Delta R.T. -0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion:129 Resp: 128151
Ion Ratio Lower Upper
129 100
127 78.1 52.8 98.2

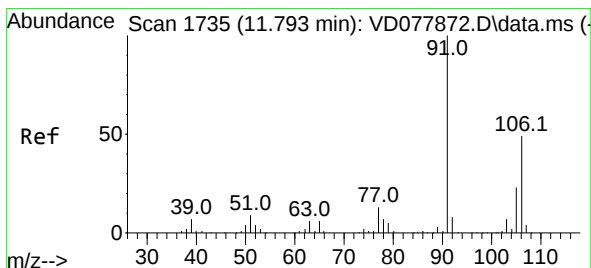
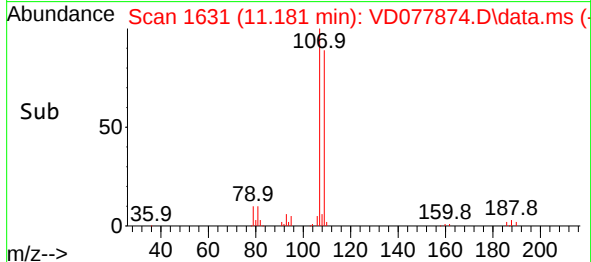
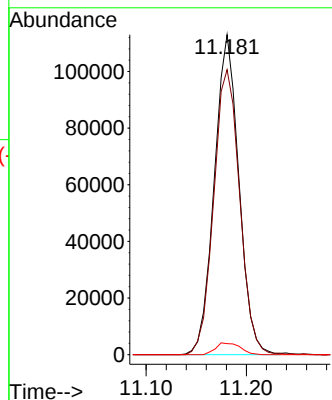
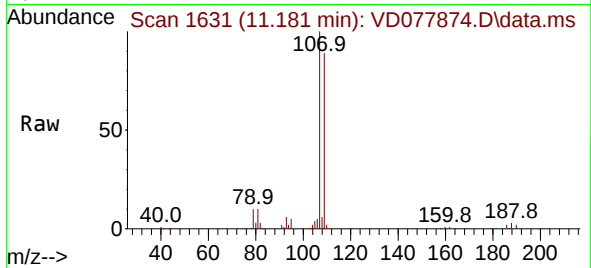




#50
1,2-Dibromoethane
Concen: 72.833 ug/L
RT: 11.181 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

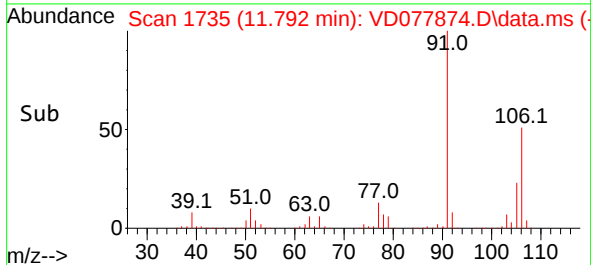
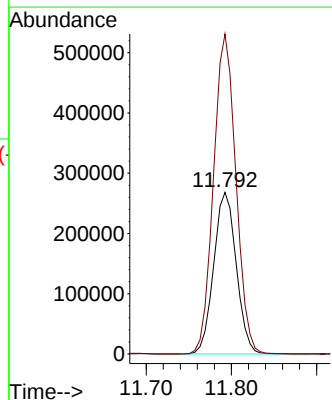
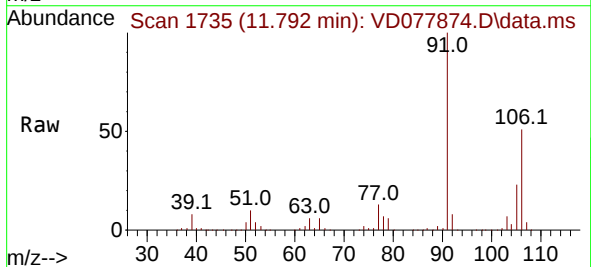
Instrument :
MSVOA_D
ClientSampleId :
DCLY1

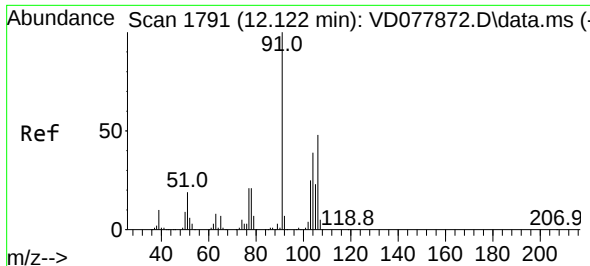
Tgt Ion:107 Resp: 192742
Ion Ratio Lower Upper
107 100
109 89.1 64.2 119.2
188 3.5 2.3 3.5



#53
m,p-Xylene
Concen: 70.753 ug/L
RT: 11.792 min Scan# 1735
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion:106 Resp: 493290
Ion Ratio Lower Upper
106 100
91 197.9 140.8 261.6

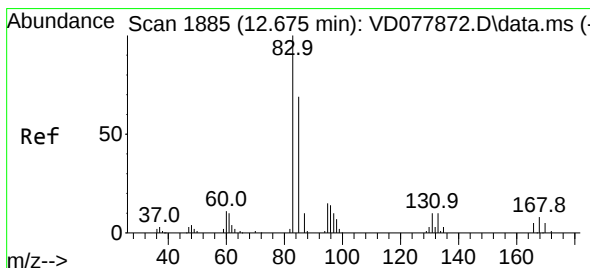
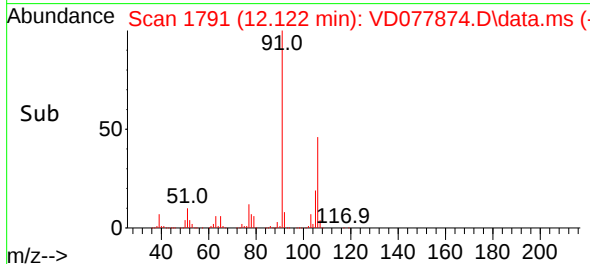
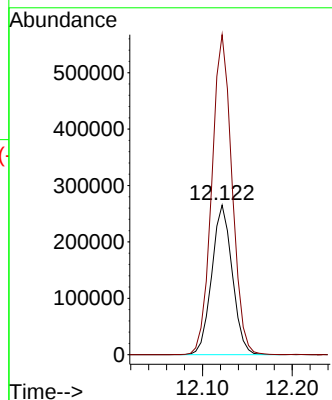
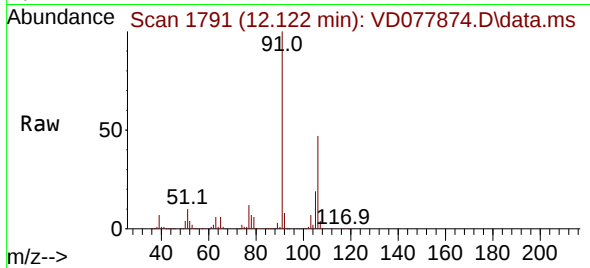




#54
o-Xylene
Concen: 63.028 ug/L
RT: 12.122 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

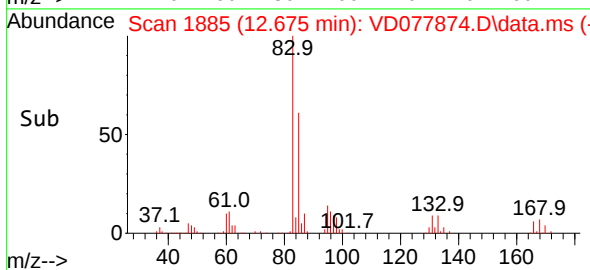
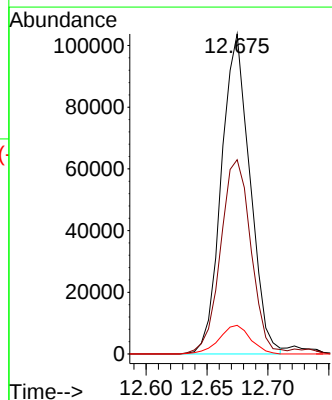
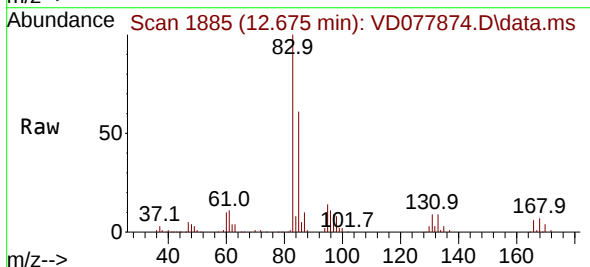
Instrument :
MSVOA_D
ClientSampleId :
DCLY1

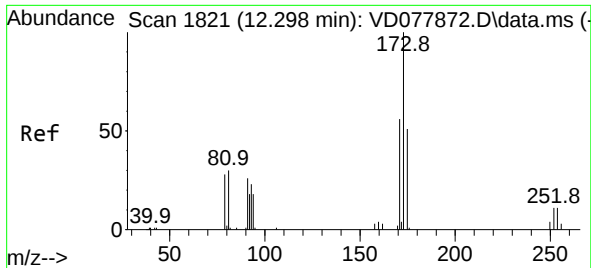
Tgt Ion:106 Resp: 420548
Ion Ratio Lower Upper
106 100
91 213.8 152.2 282.7



#57
1,1,2,2-Tetrachloroethane
Concen: 52.011 ug/L
RT: 12.675 min Scan# 1885
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion: 83 Resp: 169111
Ion Ratio Lower Upper
83 100
85 60.7 43.3 80.5
131 9.0 7.3 10.9

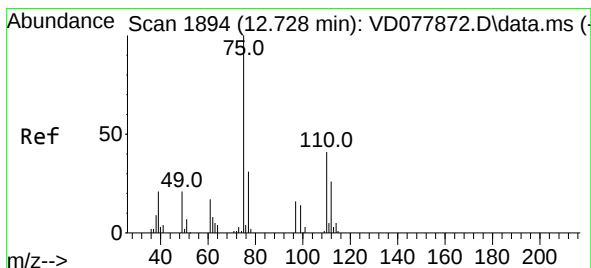
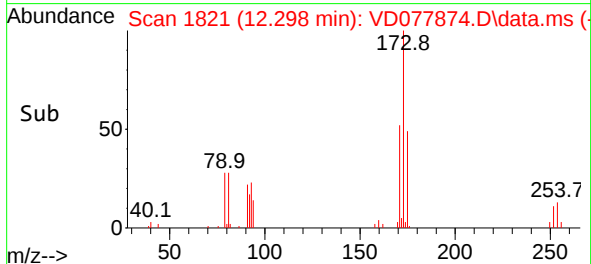
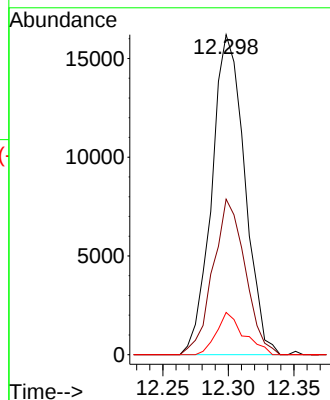
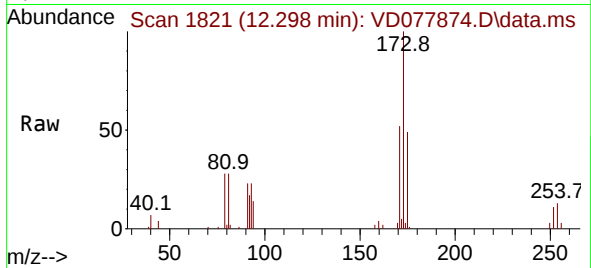




#59
Bromoform
Concen: 14.521 ug/L
RT: 12.298 min Scan# 1821
Delta R.T. -0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

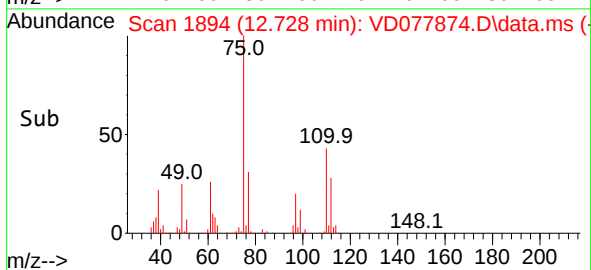
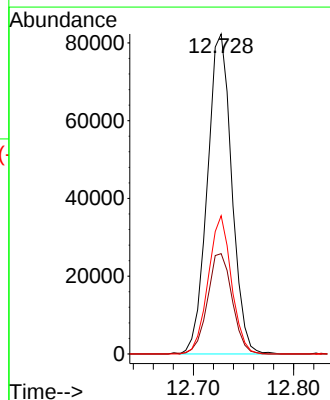
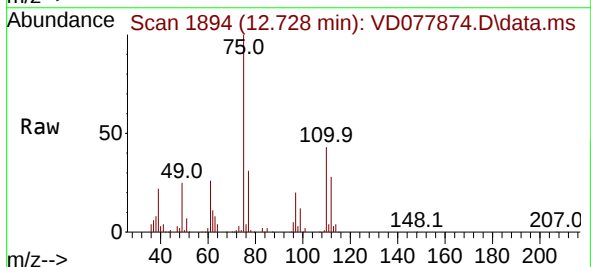
Instrument :
MSVOA_D
ClientSampleId :
DCLY1

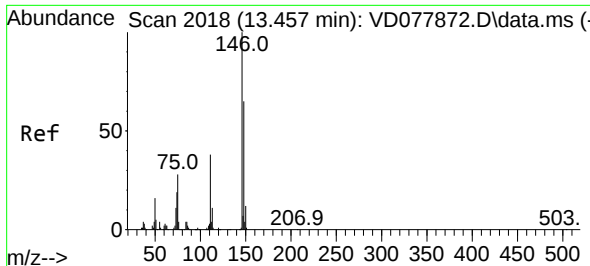
Tgt Ion:173 Resp: 28317
Ion Ratio Lower Upper
173 100
175 47.5 38.7 58.1
254 11.0 1.8 2.8#



#61
1,2,3-Trichloropropane
Concen: 64.149 ug/L
RT: 12.728 min Scan# 1894
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion: 75 Resp: 139072
Ion Ratio Lower Upper
75 100
77 31.8 26.8 40.2
110 41.0 33.4 50.2

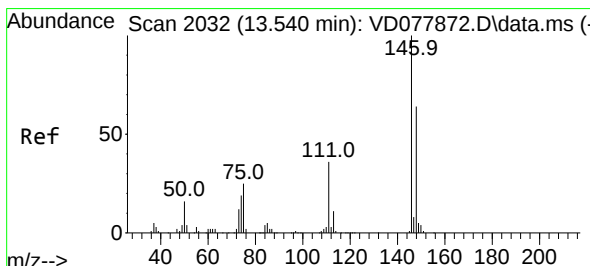
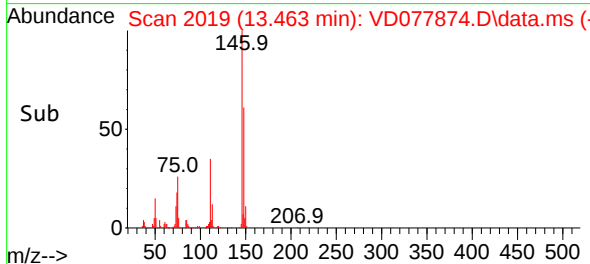
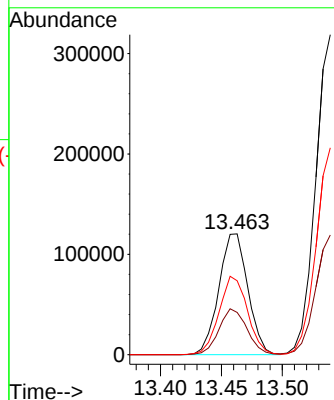
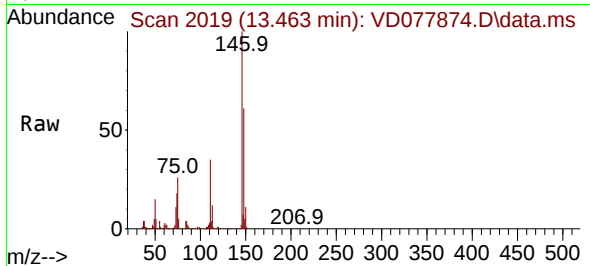




#64
1,3-Dichlorobenzene
Concen: 26.248 ug/L
RT: 13.463 min Scan# 2018
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

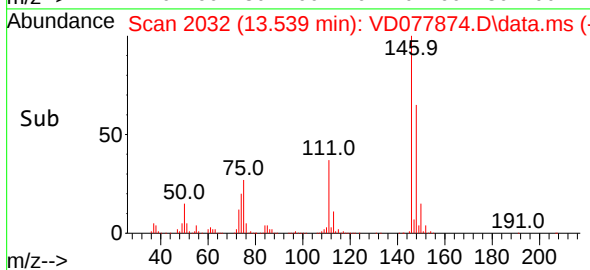
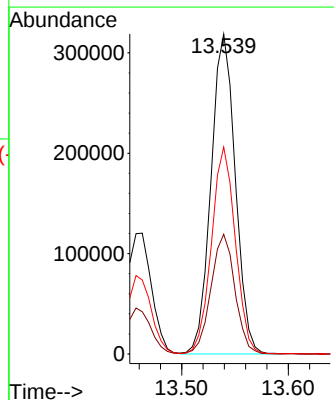
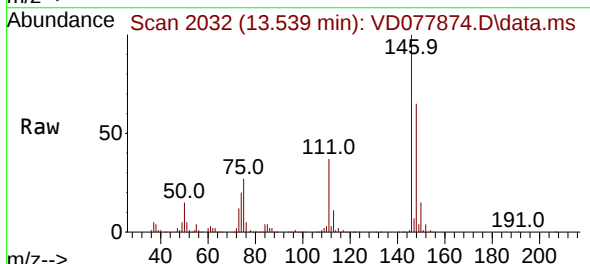
Instrument :
MSVOA_D
ClientSampleId :
DCLY1

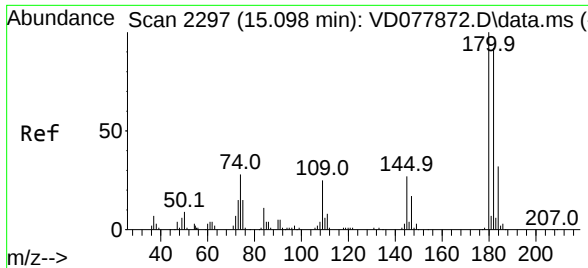
Tgt Ion:146 Resp: 199692
Ion Ratio Lower Upper
146 100
111 35.0 26.6 49.4
148 61.1 44.0 81.6



#65
1,4-Dichlorobenzene
Concen: 64.009 ug/L
RT: 13.539 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Tgt Ion:146 Resp: 505323
Ion Ratio Lower Upper
146 100
111 37.4 26.4 49.0
148 64.7 44.0 81.8





#70
1,2,4-trichlorobenzene
Concen: 21.544 ug/L
RT: 15.098 min Scan# 21
Delta R.T. -0.006 min
Lab File: VD077874.D
Acq: 14 Dec 2023 10:56

Instrument :
MSVOA_D
ClientSampleId :
DCLY1

Tgt Ion:	180	Resp:	94748
Ion Ratio	Lower	Upper	
180	100		
182	95.1	77.0	115.6
145	28.7	23.9	35.9

