

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD110923\
 Data File : VD077532.D
 Acq On : 09 Nov 2023 13:30
 Operator : JC/SY
 Sample : 05296-01
 Misc : 5.95G/10ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 10 02:08:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM110923SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Nov 10 02:07:44 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.781	114	528393	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.587	117	430094	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.616	152	239	25.000	ug/L	0.09
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.281	65	242742	18.059	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.240%
7) Chloroethane-d5	2.805	69	195949	18.557	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.240%
11) 1,1-Dichloroethene-d2	3.922	65	75057	18.058	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	72.240%
21) 2-Butanone-d5	6.993	46	80035	34.391	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	68.780%
24) Chloroform-d	7.569	84	278156	18.223	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	72.880%
26) 1,2-Dichloroethane-d4	8.234	65	147055	18.112	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	72.440%
32) Benzene-d6	8.204	84	590389	21.150	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	84.600%
36) 1,2-Dichloropropane-d6	9.210	67	186489	20.510	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	82.040%
41) Toluene-d8	10.269	98	513478	20.356	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	81.440%
43) trans-1,3-Dichloroprop...	10.528	79	76168	19.428	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	77.720%
47) 2-Hexanone-d5	10.881	63	62483	38.414	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	76.820%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	111839	18.565	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	74.240%
66) 1,2-Dichlorobenzene-d4	14.181	152	170	19.994	ug/L	0.36
Spiked Amount	25.000	Range	75 - 120	Recovery	=	79.960%
Target Compounds						
					Qvalue	
13) Acetone	4.022	43	38087	15.570	ug/L	99
16) Methylene chloride	4.805	84	18926	2.121	ug/L	96
20) cis-1,2-Dichloroethene	7.081	96	7402087	861.961	ug/L	97
33) Benzene	8.257	78	51248	1.718	ug/L	100
34) Trichloroethene	9.028	95	1197561	162.042	ug/L	94
35) Methylcyclohexane	9.269	83	11516	0.863	ug/L #	83
39) cis-1,3-Dichloropropene	9.981	75	4834	0.379	ug/L #	75
42) Toluene	10.334	91	1521294	48.582	ug/L	98
45) 1,1,2-Trichloroethane	10.716	97	88701	17.501	ug/L #	18
46) Tetrachloroethene	10.816	164	10656731	1959.746	ug/L	95
48) 2-Hexanone	10.892	43	47644	11.896	ug/L #	32
51) Chlorobenzene	11.610	112	5199632	283.431	ug/L	98
53) m,p-Xylene	11.692	106	8130425	648.459	ug/L	76
55) Styrene	12.145	104	462146	22.042	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.675	83	4334	0.726	ug/L #	94
60) Isopropylbenzene	12.422	105	999822	25862.801	ug/L	99
61) 1,2,3-Trichloropropane	12.716	75	622	122.178	ug/L #	50
62) 1,3,5-Trimethylbenzene	12.904	105	843402	28745.722	ug/L	97
63) 1,2,4-Trimethylbenzene	13.216	105	1632868	54940.404	ug/L	100

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 Quant Title : SFAM01.0
 QLast Update : Fri Nov 10 02:07:44 2023
 Response via : Initial Calibration

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

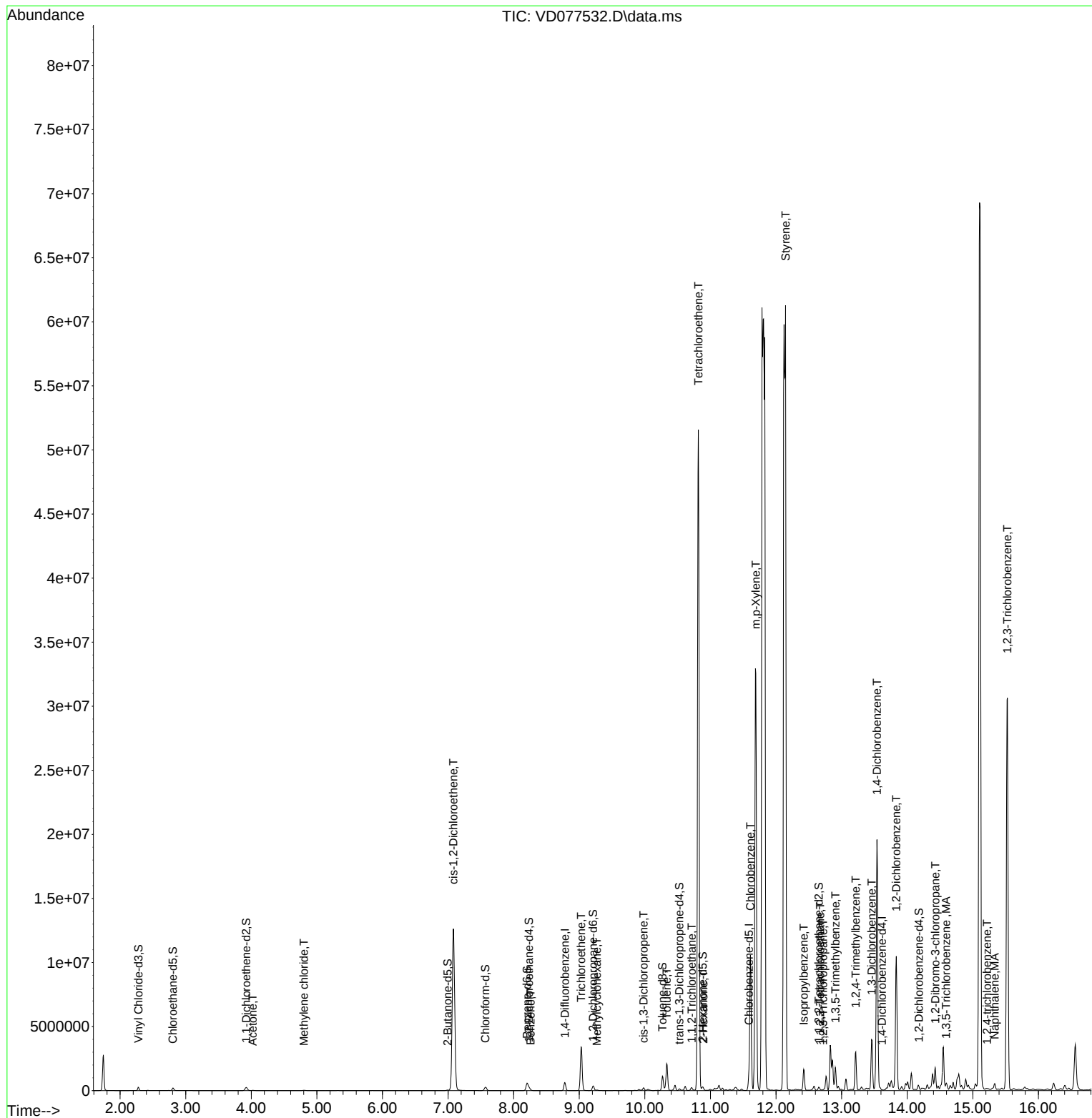
64) 1,3-Dichlorobenzene	13.457	146	1556196	98121.737	ug/L	99
65) 1,4-Dichlorobenzene	13.539	146	6930090	432974.020	ug/L	94
67) 1,2-Dichlorobenzene	13.833	146	3806058	271439.841	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.428	75	15615	14101.146	ug/L #	10
69) 1,3,5-Trichlorobenzene	14.592	180	127175	11776.682	ug/L	99
70) 1,2,4-trichlorobenzene	15.216	180	359	39.445	ug/L #	1
71) Naphthalene	15.333	128	378038	22039.718	ug/L	99
72) 1,2,3-Trichlorobenzene	15.528	180	9663914	1245297.495	ug/L	99

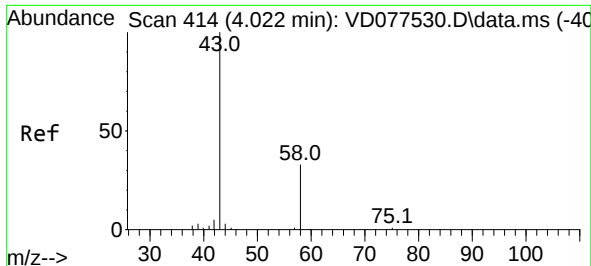
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0
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Response via : Initial Calibration





#13

Acetone

Concen: 15.570 ug/L

RT: 4.022 min Scan# 414

Delta R.T. -0.000 min

Lab File: VD077532.D

Acq: 09 Nov 2023 13:30

Instrument :

MSVOA_D

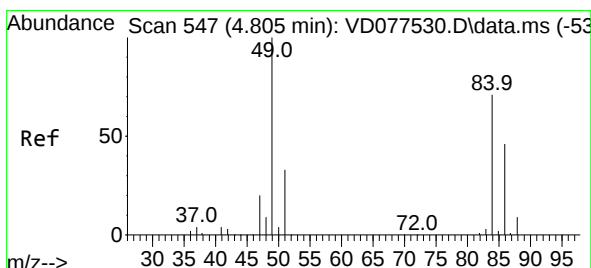
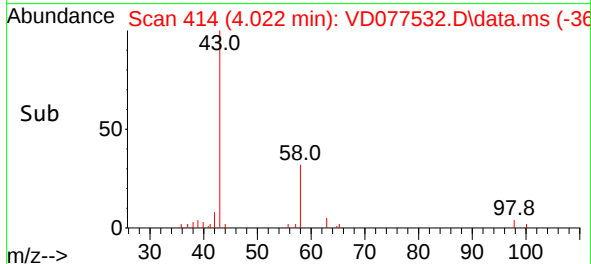
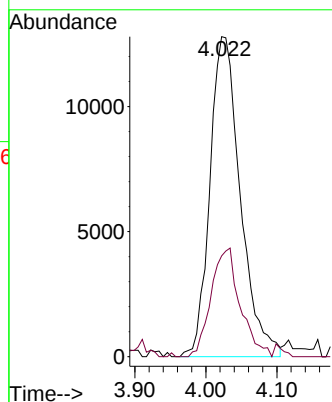
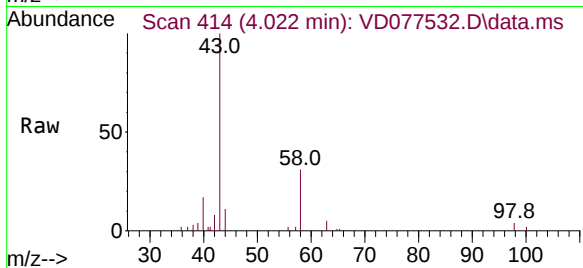
ClientSampleId :

Tgt Ion: 43 Resp: 38087

Ion Ratio Lower Upper

43 100

58 32.3 0.0 64.0



#16

Methylene chloride

Concen: 2.121 ug/L

RT: 4.805 min Scan# 547

Delta R.T. -0.000 min

Lab File: VD077532.D

Acq: 09 Nov 2023 13:30

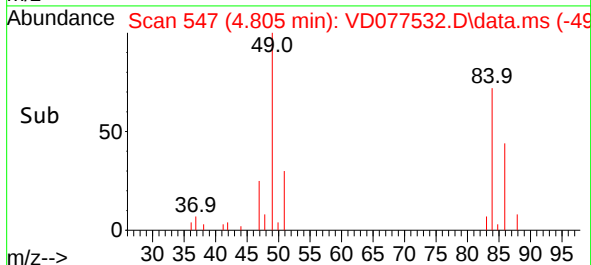
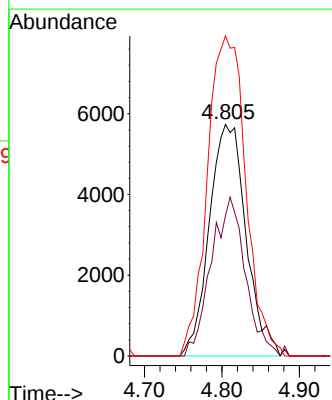
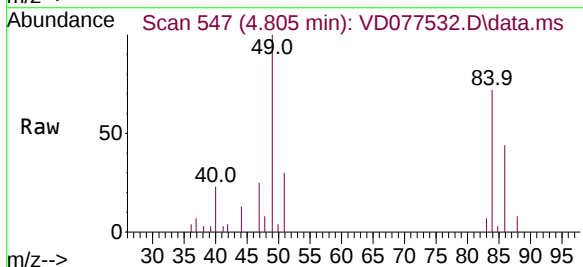
Tgt Ion: 84 Resp: 18926

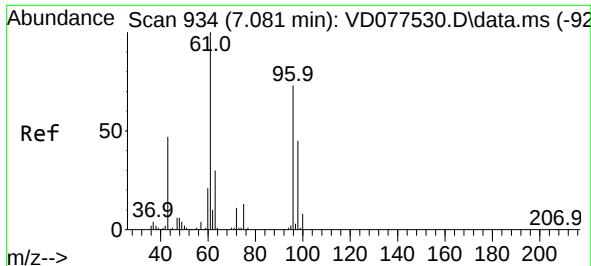
Ion Ratio Lower Upper

84 100

86 60.6 46.5 86.5

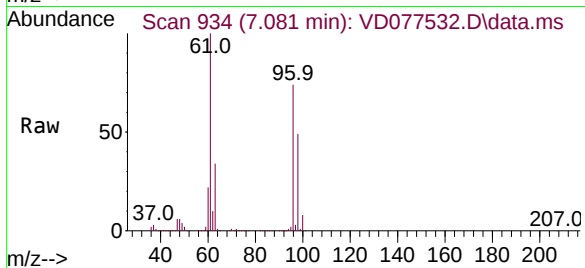
49 138.2 98.3 182.7





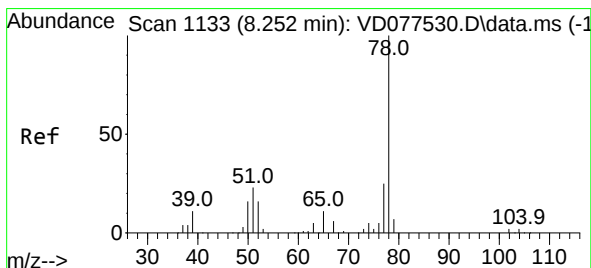
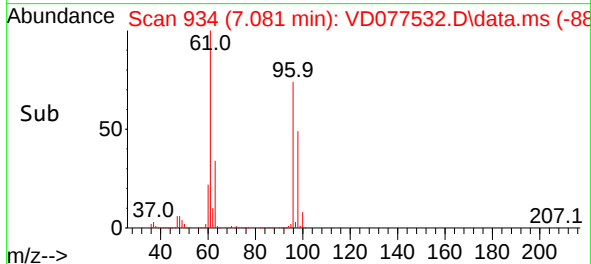
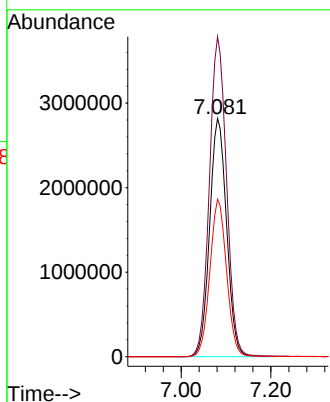
#20
 cis-1,2-Dichloroethene
 Concen: 861.961 ug/L
 RT: 7.081 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VD077532.D
 Acq: 09 Nov 2023 13:30

Instrument :
 MSVOA_D
 ClientSampleId :



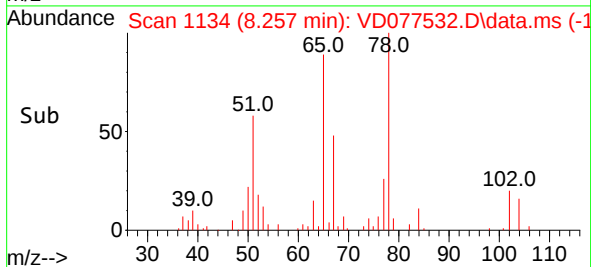
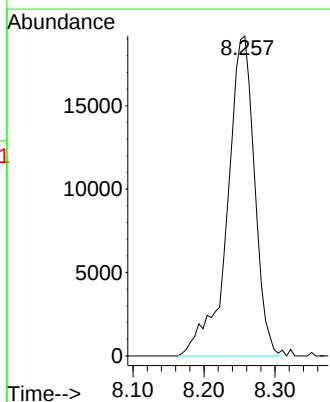
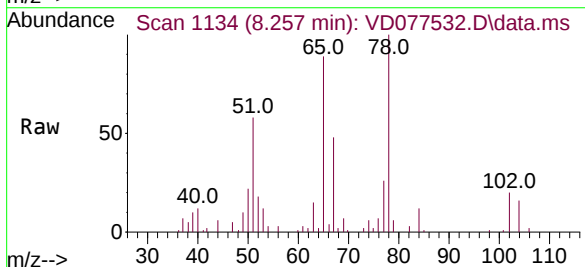
Tgt Ion: 96 Resp: 7402087

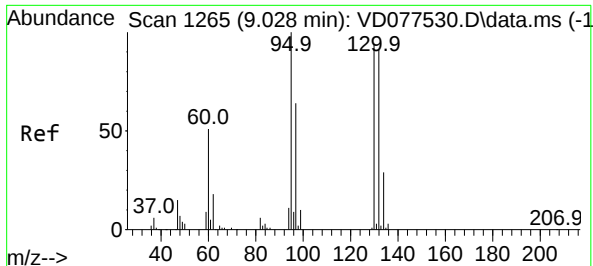
Ion	Ratio	Lower	Upper
96	100		
61	134.4	95.0	176.4
98	66.1	43.1	80.1



#33
 Benzene
 Concen: 1.718 ug/L
 RT: 8.257 min Scan# 1134
 Delta R.T. 0.006 min
 Lab File: VD077532.D
 Acq: 09 Nov 2023 13:30

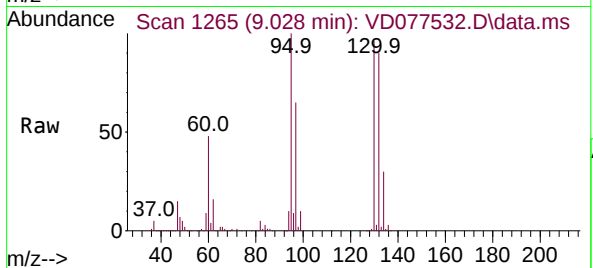
Tgt Ion: 78 Resp: 51248



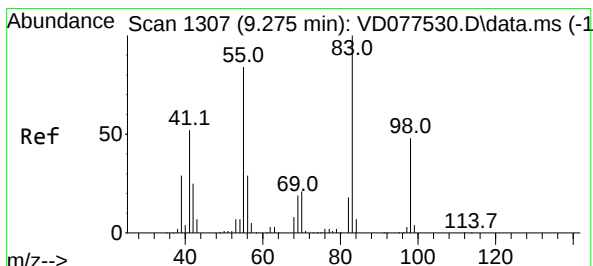
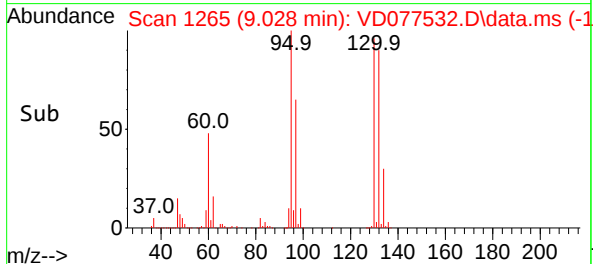
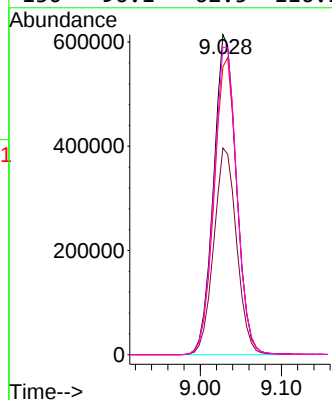


#34
Trichloroethene
Concen: 162.042 ug/L
RT: 9.028 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD077532.D
Acq: 09 Nov 2023 13:30

Instrument :
MSVOA_D
ClientSampleId :

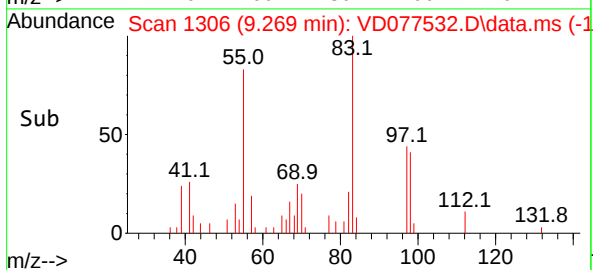
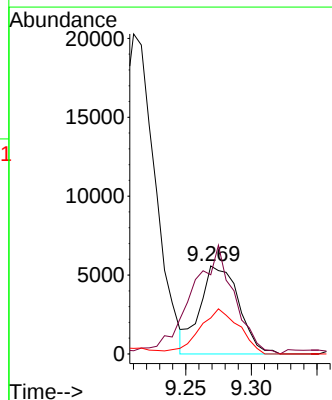
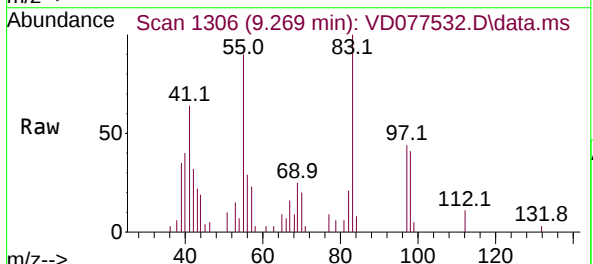


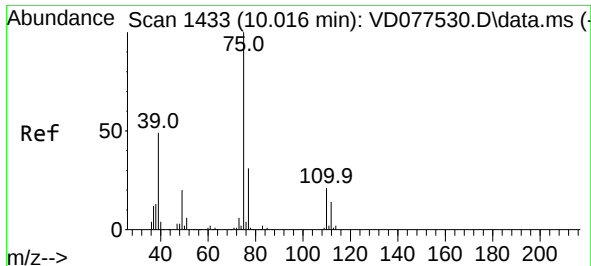
Tgt Ion: 95 Resp: 1197561
Ion Ratio Lower Upper
95 100
97 64.6 42.4 78.6
132 90.0 59.4 110.2
130 96.1 62.5 116.1



#35
Methylcyclohexane
Concen: 0.863 ug/L
RT: 9.269 min Scan# 1306
Delta R.T. -0.006 min
Lab File: VD077532.D
Acq: 09 Nov 2023 13:30

Tgt Ion: 83 Resp: 11516
Ion Ratio Lower Upper
83 100
55 63.0 66.5 99.7#
98 52.1 37.4 56.2





#39

cis-1,3-Dichloropropene

Concen: 0.379 ug/L

RT: 9.981 min Scan# 1427

Delta R.T. -0.035 min

Lab File: VD077532.D

Acq: 09 Nov 2023 13:30

Instrument :

MSVOA_D

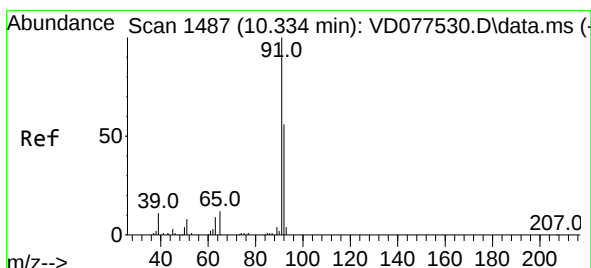
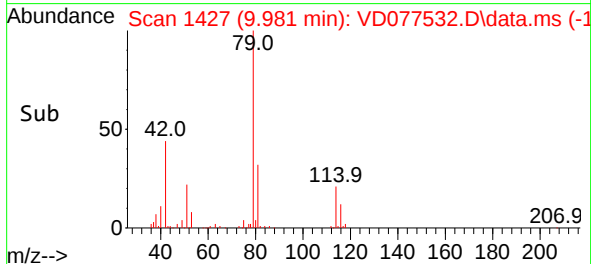
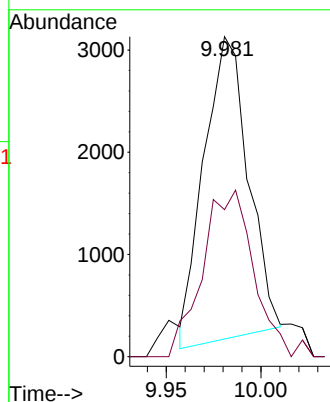
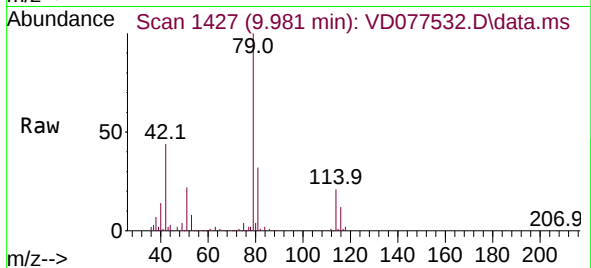
ClientSampleId :

Tgt Ion: 75 Resp: 4834

Ion Ratio Lower Upper

75 100

77 46.0 22.5 41.9#



#42

Toluene

Concen: 48.582 ug/L

RT: 10.334 min Scan# 1487

Delta R.T. -0.000 min

Lab File: VD077532.D

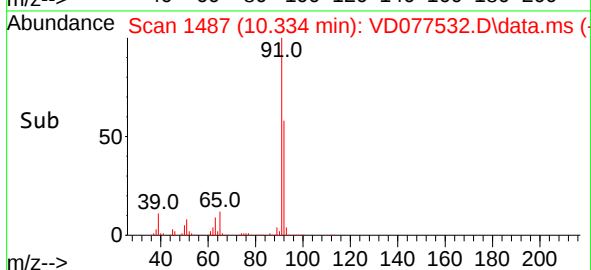
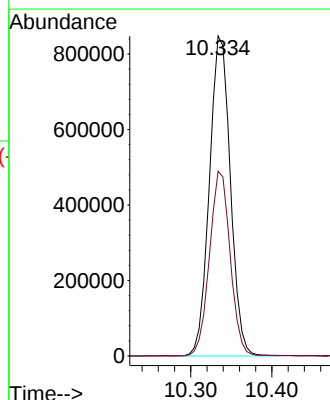
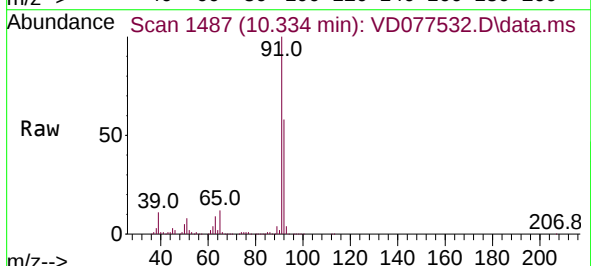
Acq: 09 Nov 2023 13:30

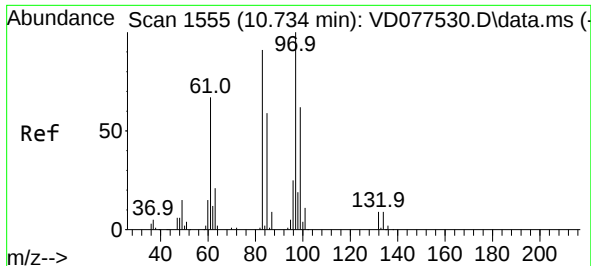
Tgt Ion: 91 Resp: 1521294

Ion Ratio Lower Upper

91 100

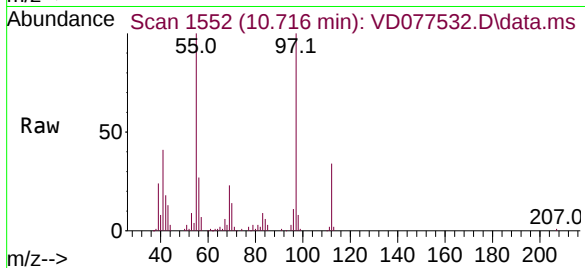
92 57.7 39.3 73.1



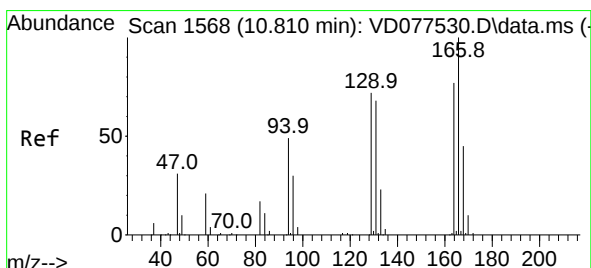
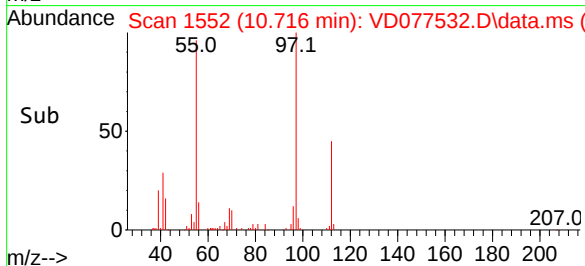
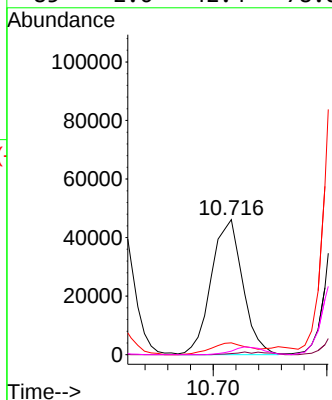


#45
1,1,2-Trichloroethane
Concen: 17.501 ug/L
RT: 10.716 min Scan# 1552
Delta R.T. -0.018 min
Lab File: VD077532.D
Acq: 09 Nov 2023 13:30

Instrument :
MSVOA_D
ClientSampleId :

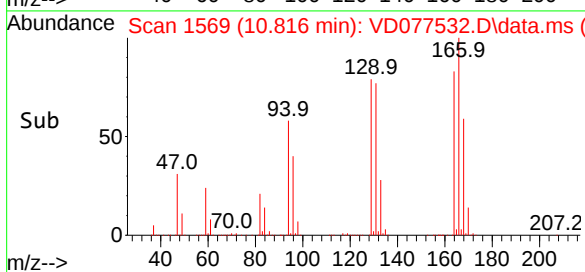
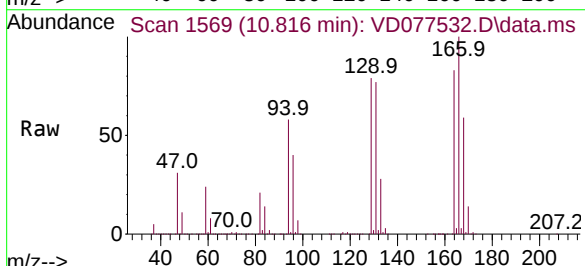
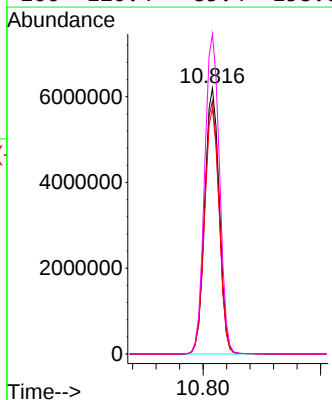


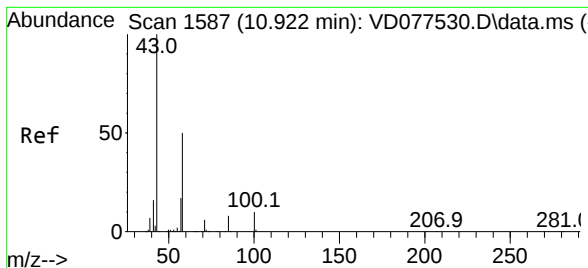
Tgt Ion: 97 Resp: 88701
Ion Ratio Lower Upper
97 100
99 0.8 43.5 80.7#
83 8.7 63.1 117.3#
85 2.6 42.4 78.8#



#46
Tetrachloroethene
Concen: 1959.746 ug/L
RT: 10.816 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VD077532.D
Acq: 09 Nov 2023 13:30

Tgt Ion:164 Resp:10656731
Ion Ratio Lower Upper
164 100
129 95.2 60.6 112.6
131 92.5 61.6 114.4
166 120.4 85.4 158.6





#48

2-Hexanone

Concen: 11.896 ug/L

RT: 10.892 min Scan# 11

Delta R.T. -0.030 min MSVOA_D

Lab File: VD077532.D

Acq: 09 Nov 2023 13:30

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 43 Resp: 47644

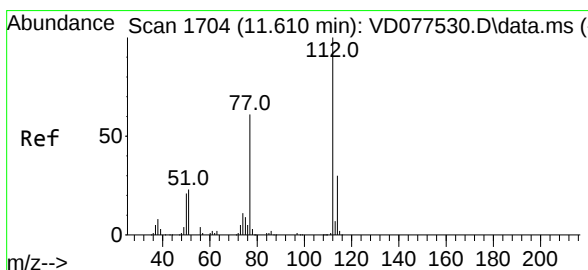
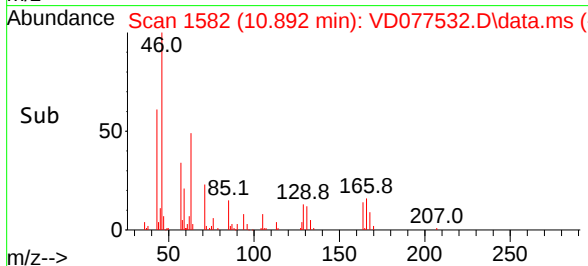
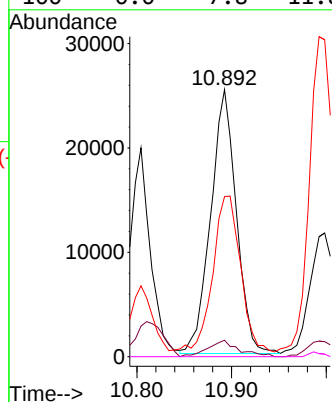
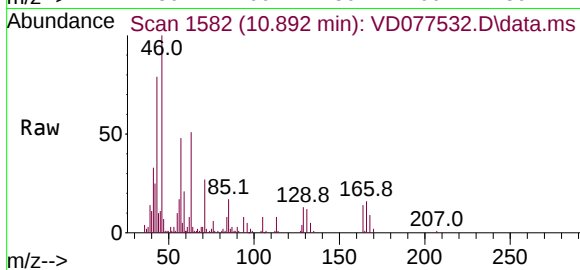
Ion Ratio Lower Upper

43 100

58 6.2 40.8 61.2#

57 62.5 13.7 20.5#

100 0.0 7.8 11.8#



#51

Chlorobenzene

Concen: 283.431 ug/L

RT: 11.610 min Scan# 1704

Delta R.T. -0.000 min

Lab File: VD077532.D

Acq: 09 Nov 2023 13:30

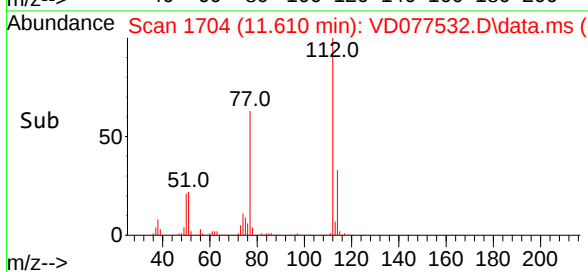
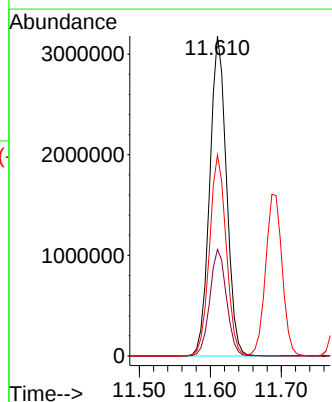
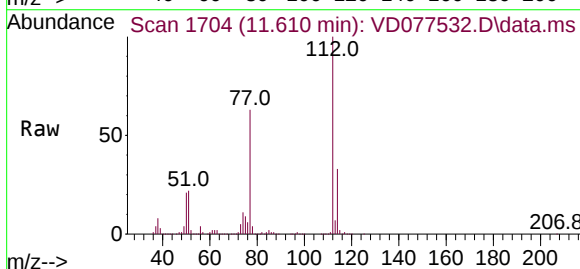
Tgt Ion:112 Resp: 5199632

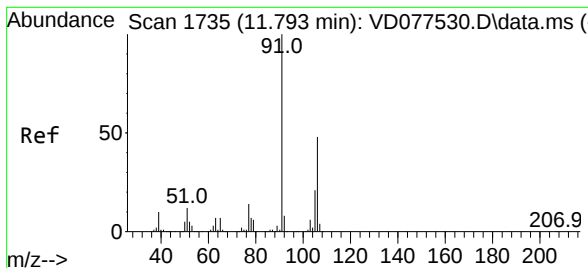
Ion Ratio Lower Upper

112 100

114 33.3 22.4 41.6

77 62.9 49.6 74.4





#53

m,p-Xylene

Concen: 648.459 ug/L

RT: 11.692 min Scan# 1718

Delta R.T. -0.100 min

Lab File: VD077532.D

Acq: 09 Nov 2023 13:30

Instrument :

MSVOA_D

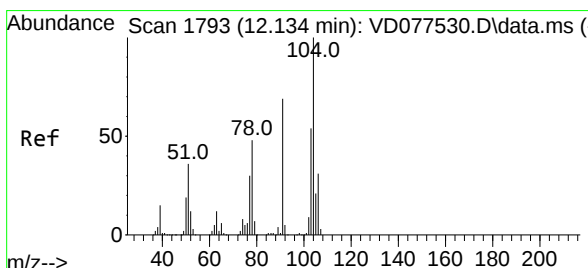
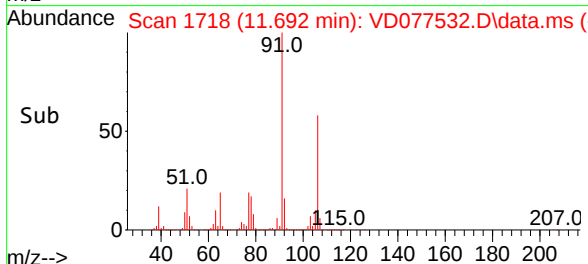
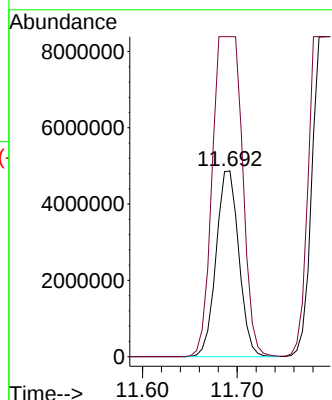
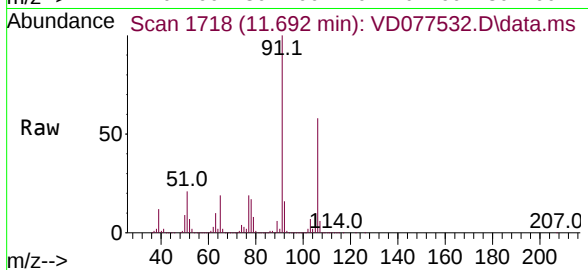
ClientSampleId :

Tgt Ion:106 Resp: 8130425

Ion Ratio Lower Upper

106 100

91 172.2 146.7 272.4



#55

Styrene

Concen: 22.042 ug/L

RT: 12.145 min Scan# 1795

Delta R.T. 0.012 min

Lab File: VD077532.D

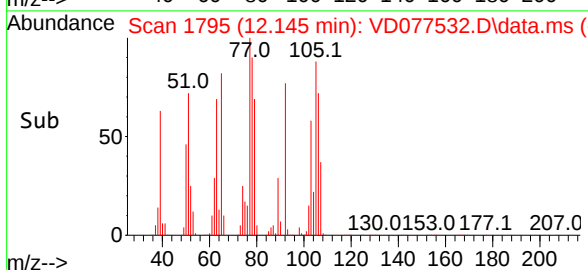
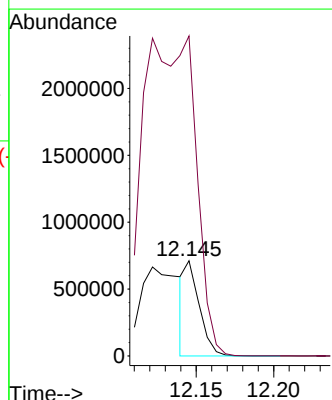
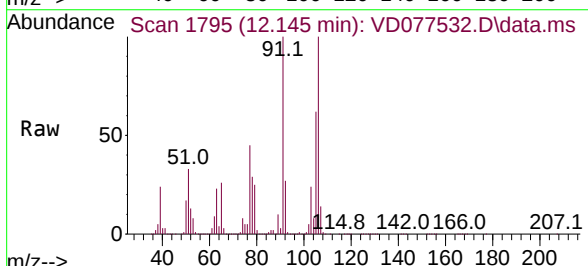
Acq: 09 Nov 2023 13:30

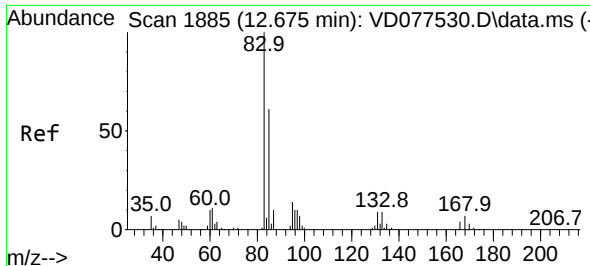
Tgt Ion:104 Resp: 462146

Ion Ratio Lower Upper

104 100

78 336.0 34.9 64.9#

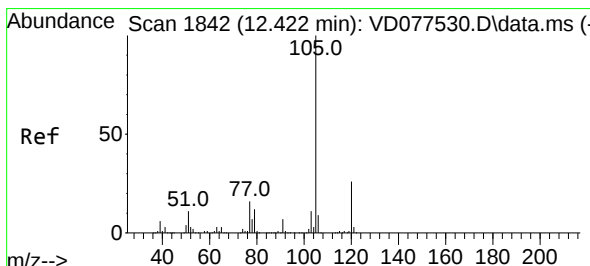
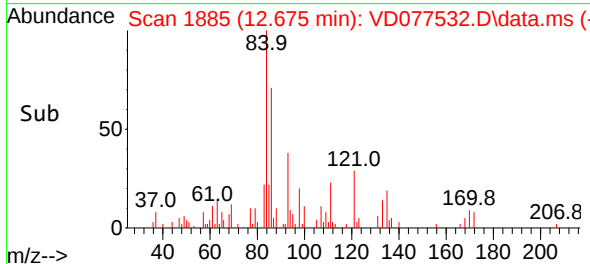
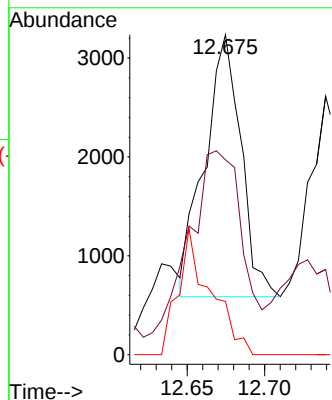
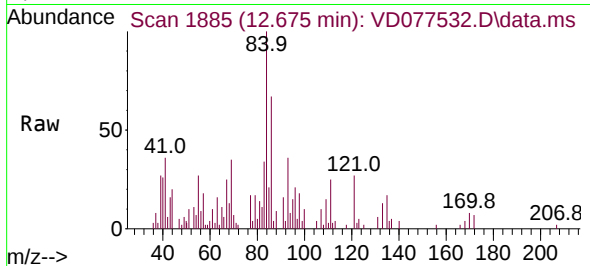




#57
 1,1,2-Tetrachloroethane
 Concen: 0.726 ug/L
 RT: 12.675 min Scan# 1885
 Delta R.T. -0.000 min
 Lab File: VD077532.D
 Acq: 09 Nov 2023 13:30

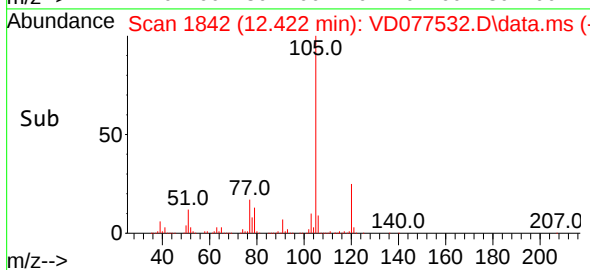
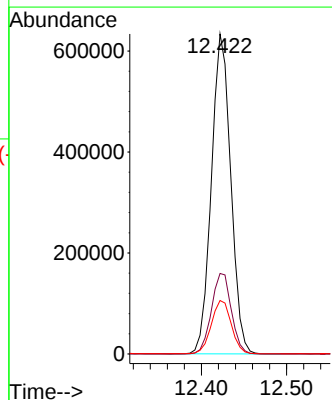
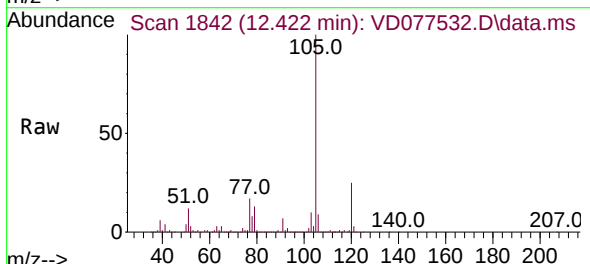
Instrument :
 MSVOA_D
 ClientSampleId :

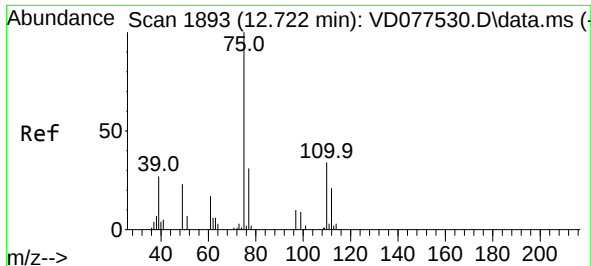
Tgt Ion: 83 Resp: 4334
 Ion Ratio Lower Upper
 83 100
 85 60.9 44.9 83.3
 131 16.7 7.2 10.8#



#60
 Isopropylbenzene
 Concen: 25862.801 ug/L
 RT: 12.422 min Scan# 1842
 Delta R.T. -0.000 min
 Lab File: VD077532.D
 Acq: 09 Nov 2023 13:30

Tgt Ion:105 Resp: 999822
 Ion Ratio Lower Upper
 105 100
 120 25.9 21.0 31.4
 77 17.2 13.4 20.2

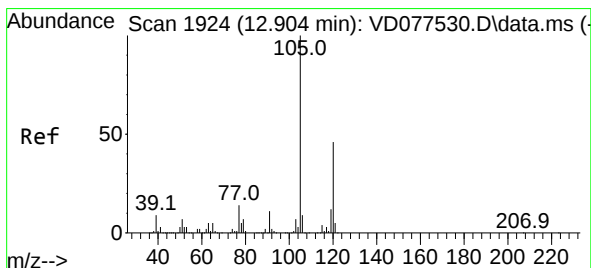
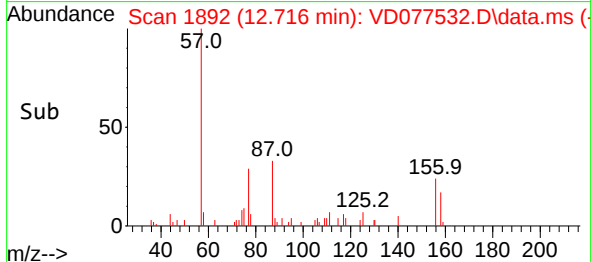
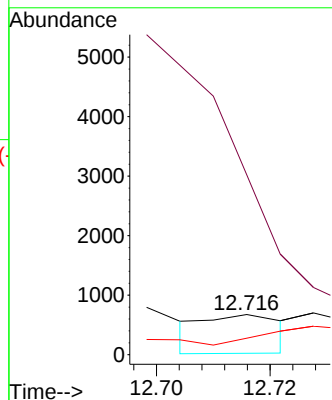
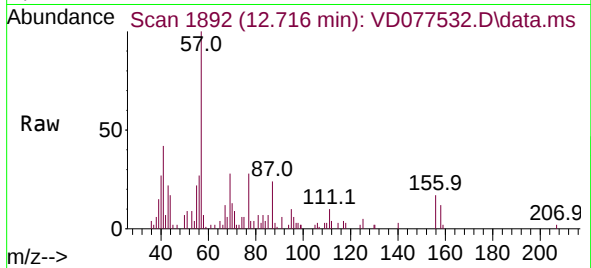




#61
1,2,3-Trichloropropane
Concen: 122.178 ug/L
RT: 12.716 min Scan# 1892
Delta R.T. -0.006 min
Lab File: VD077532.D
Acq: 09 Nov 2023 13:30

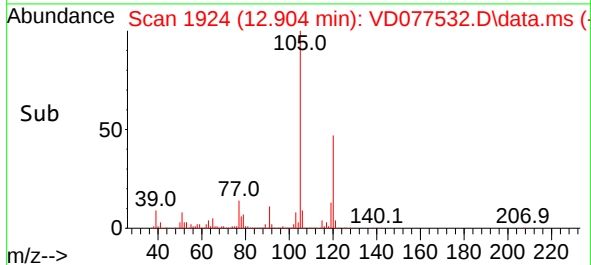
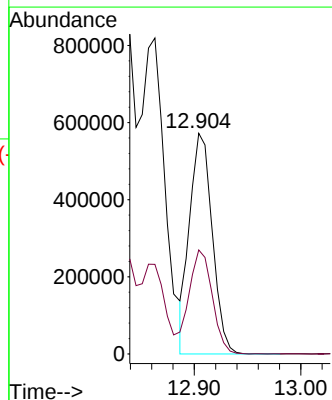
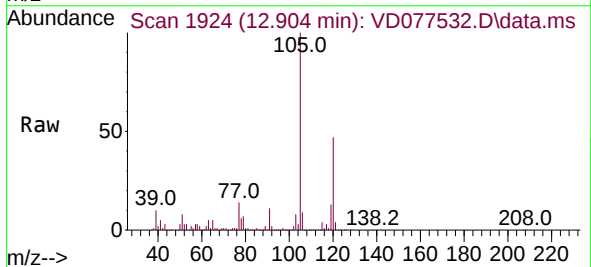
Instrument :
MSVOA_D
ClientSampleId :

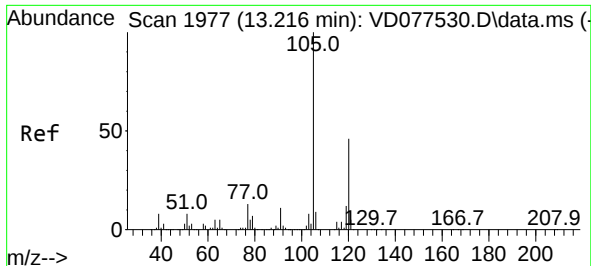
Tgt Ion: 75 Resp: 622
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#
110 62.5 29.6 44.4#



#62
1,3,5-Trimethylbenzene
Concen: 28745.722 ug/L
RT: 12.904 min Scan# 1924
Delta R.T. -0.000 min
Lab File: VD077532.D
Acq: 09 Nov 2023 13:30

Tgt Ion: 105 Resp: 843402
Ion Ratio Lower Upper
105 100
120 49.4 37.8 56.6

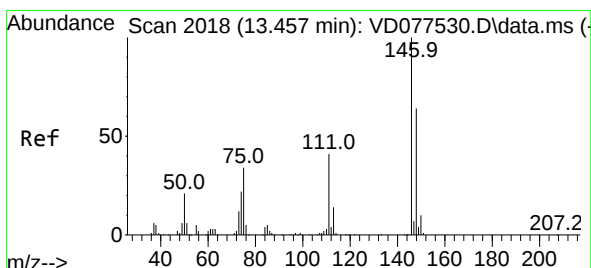
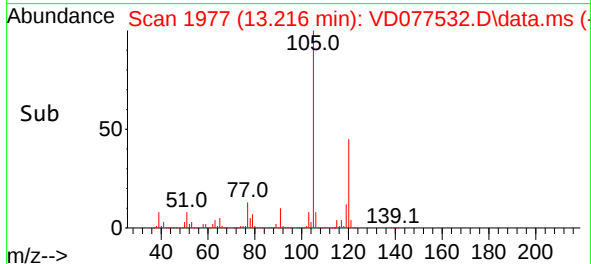
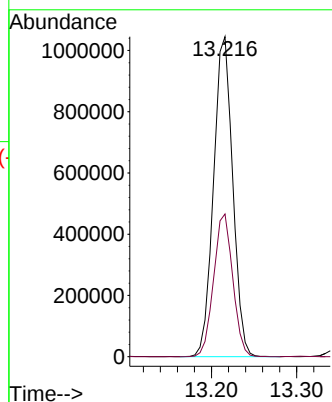
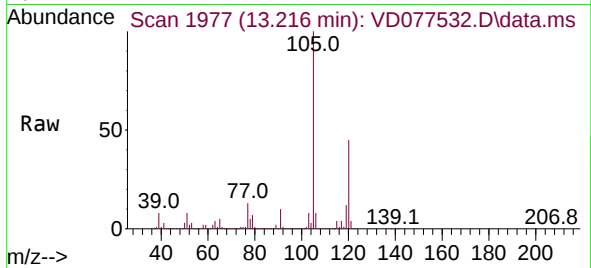




#63
1,2,4-Trimethylbenzene
Concen: 54940.404 ug/L
RT: 13.216 min Scan# 1977
Delta R.T. -0.000 min
Lab File: VD077532.D
Acq: 09 Nov 2023 13:30

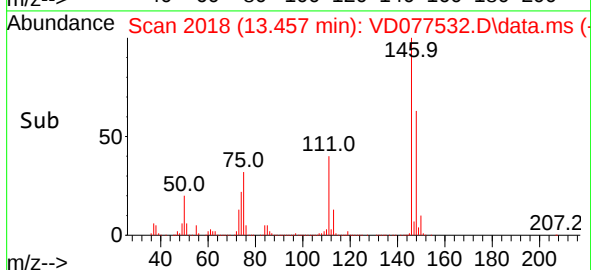
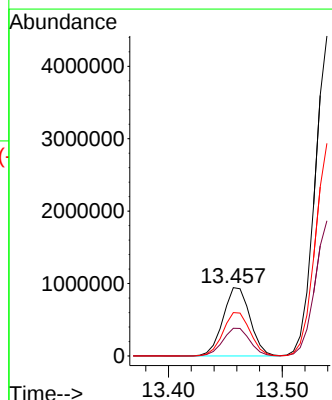
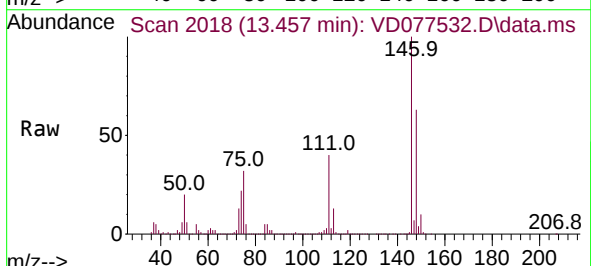
Instrument :
MSVOA_D
ClientSampleId :

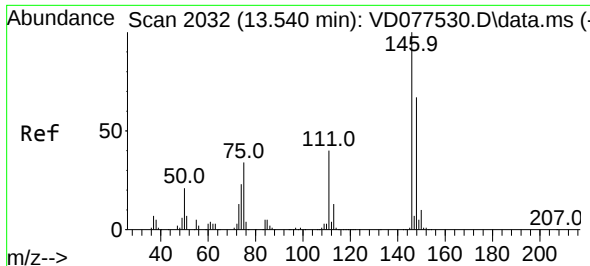
Tgt Ion:105 Resp: 1632868
Ion Ratio Lower Upper
105 100
120 44.5 35.6 53.4



#64
1,3-Dichlorobenzene
Concen: 98121.737 ug/L
RT: 13.457 min Scan# 1818
Delta R.T. -0.000 min
Lab File: VD077532.D
Acq: 09 Nov 2023 13:30

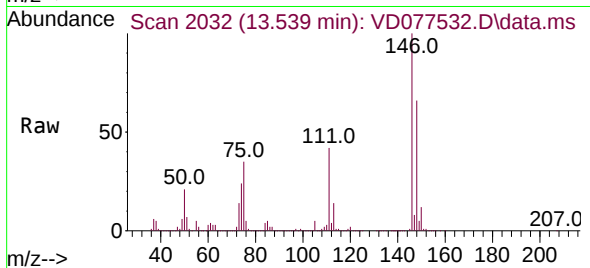
Tgt Ion:146 Resp: 1556196
Ion Ratio Lower Upper
146 100
111 40.4 27.2 50.6
148 63.5 44.1 81.9



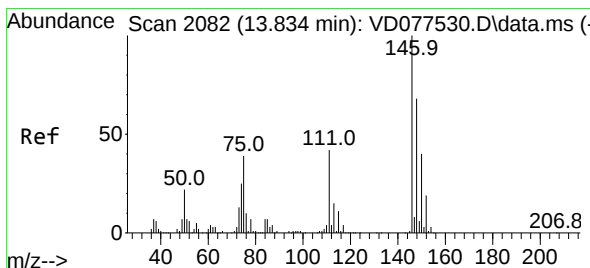
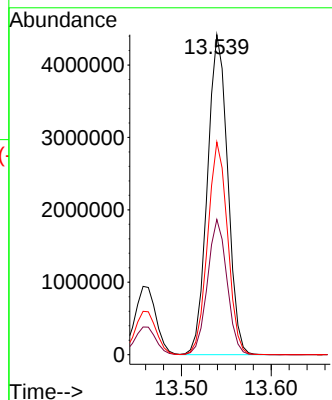
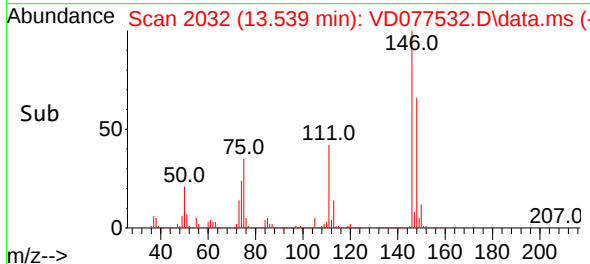


#65
1,4-Dichlorobenzene
Concen: 432974.020 ug/L
RT: 13.539 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VD077532.D
Acq: 09 Nov 2023 13:30

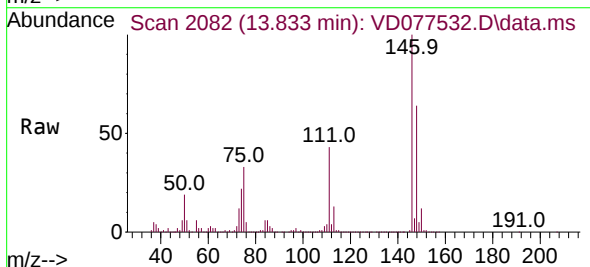
Instrument :
MSVOA_D
ClientSampleId :



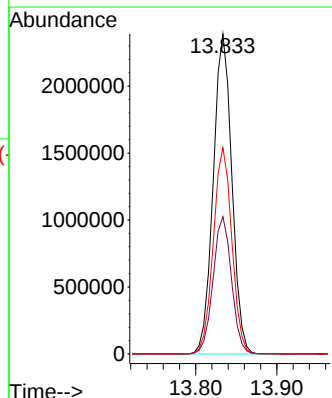
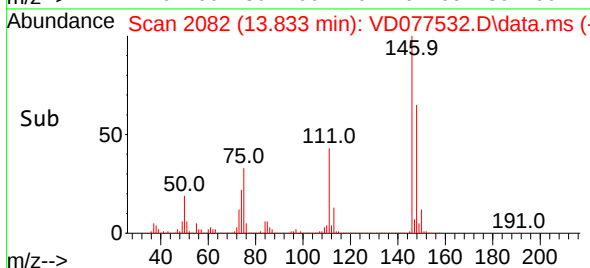
Tgt Ion:146 Resp: 6930090
Ion Ratio Lower Upper
146 100
111 42.3 25.6 47.4
148 66.5 44.1 81.9

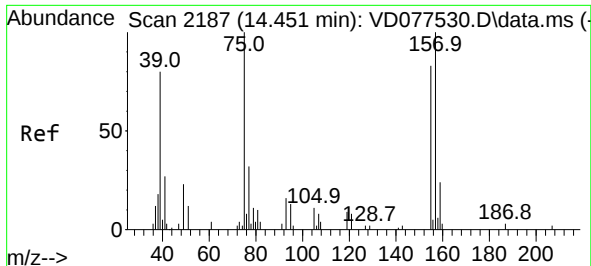


#67
1,2-Dichlorobenzene
Concen: 271439.841 ug/L
RT: 13.833 min Scan# 2082
Delta R.T. -0.000 min
Lab File: VD077532.D
Acq: 09 Nov 2023 13:30



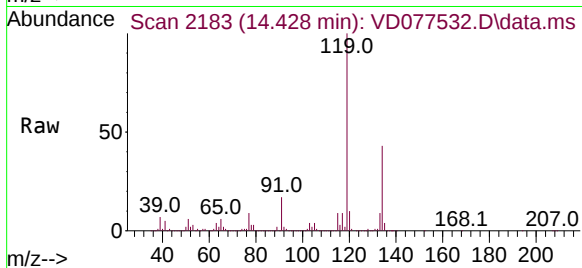
Tgt Ion:146 Resp: 3806058
Ion Ratio Lower Upper
146 100
111 42.9 33.8 50.6
148 64.4 54.3 81.5



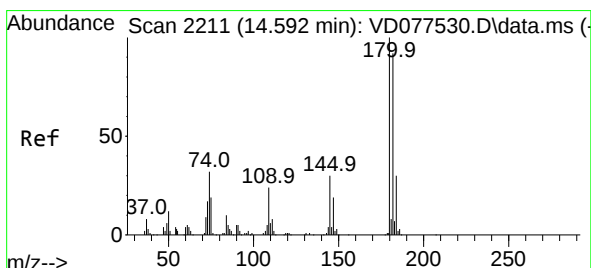
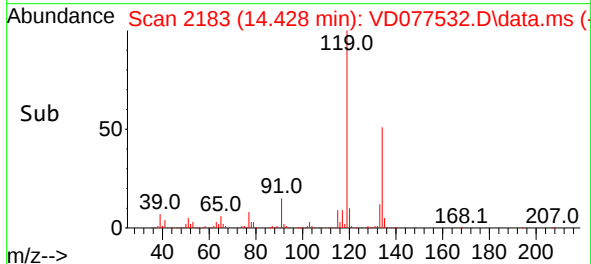
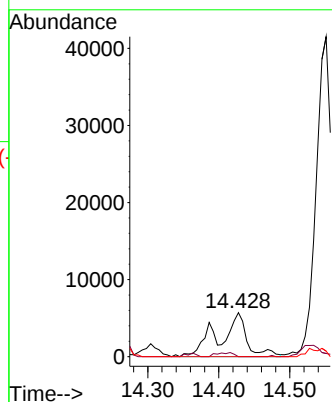


#68
 1,2-Dibromo-3-chloropropane
 Concen: 14101.146 ug/L
 RT: 14.428 min Scan# 2187
 Delta R.T. -0.024 min
 Lab File: VD077532.D
 Acq: 09 Nov 2023 13:30

Instrument :
 MSVOA_D
 ClientSampleId :

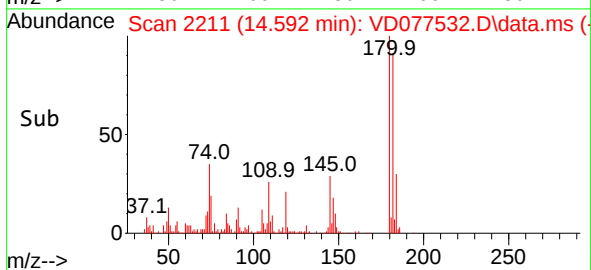
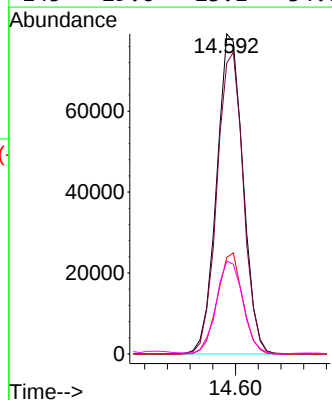
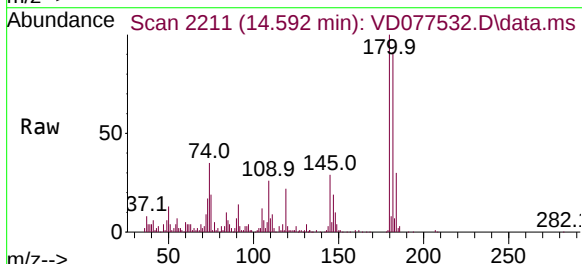


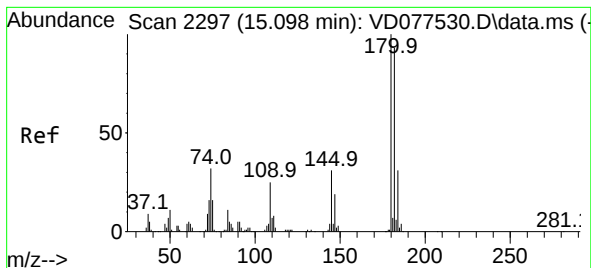
Tgt Ion: 75 Resp: 15615
 Ion Ratio Lower Upper
 75 100
 155 0.0 58.2 87.2#
 157 0.0 68.7 103.1#



#69
 1,3,5-Trichlorobenzene
 Concen: 11776.682 ug/L
 RT: 14.592 min Scan# 2211
 Delta R.T. -0.000 min
 Lab File: VD077532.D
 Acq: 09 Nov 2023 13:30

Tgt Ion:180 Resp: 127175
 Ion Ratio Lower Upper
 180 100
 182 94.4 76.1 114.1
 184 30.4 24.0 36.0
 145 29.6 23.1 34.7





#70

1,2,4-trichlorobenzene

Concen: 39.445 ug/L

RT: 15.216 min Scan# 21

Delta R.T. 0.117 min

Lab File: VD077532.D

Acq: 09 Nov 2023 13:30

Instrument :

MSVOA_D

ClientSampleId :

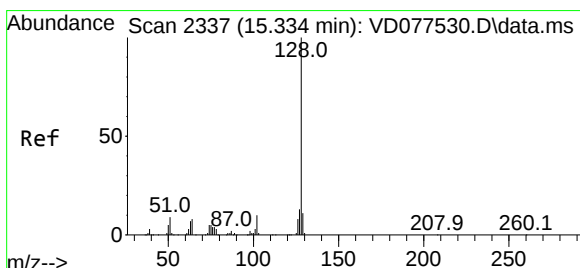
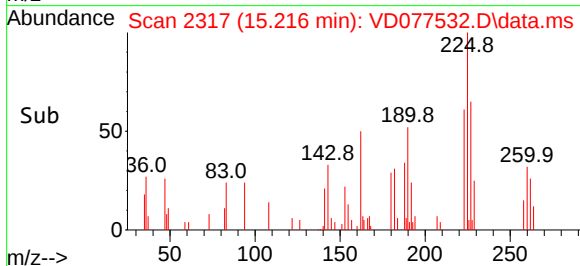
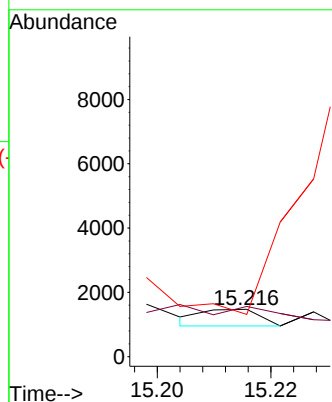
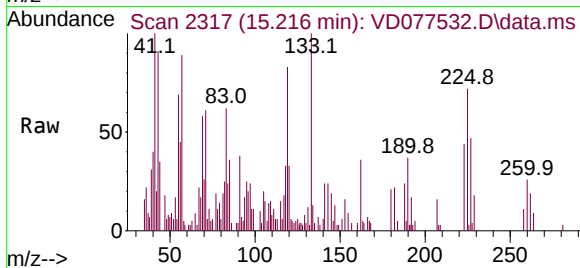
Tgt Ion:180 Resp: 359

Ion Ratio Lower Upper

180 100

182 46.5 75.8 113.6#

145 634.0 24.1 36.1#



#71

Naphthalene

Concen: 22039.718 ug/L

RT: 15.333 min Scan# 2337

Delta R.T. -0.000 min

Lab File: VD077532.D

Acq: 09 Nov 2023 13:30

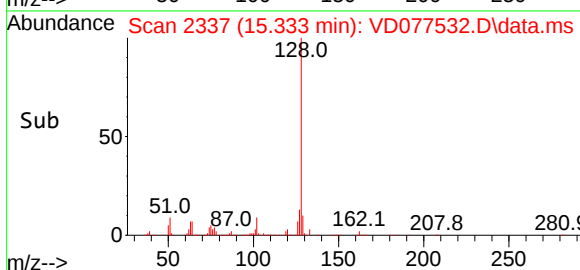
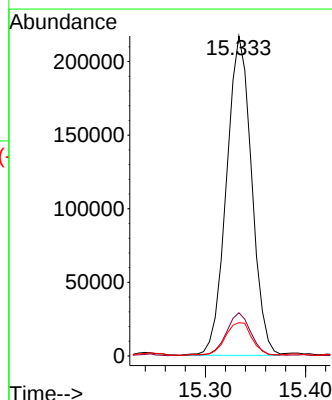
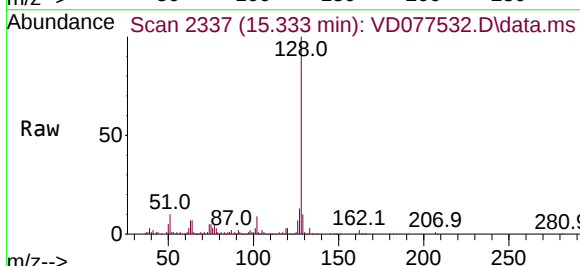
Tgt Ion:128 Resp: 378038

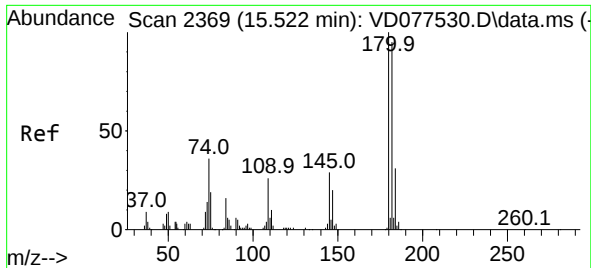
Ion Ratio Lower Upper

128 100

127 13.2 10.5 15.7

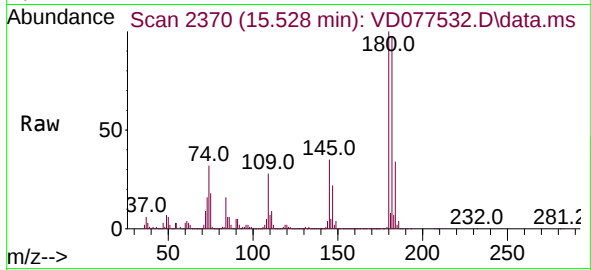
129 10.4 9.0 13.6





#72
 1,2,3-Trichlorobenzene
 Concen: 1245297.495 ug/L
 RT: 15.528 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VD077532.D
 Acq: 09 Nov 2023 13:30

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:180 Resp: 9663914

Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.8	115.2
145	33.9	26.0	39.0

