

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060424\
 Data File : VD079138.D
 Acq On : 04 Jun 2024 11:26
 Operator : RP/MD
 Sample : P2642-19DL 2X
 Misc : 5.00G/10ml/MSVOA_D/SOIL/A
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 05 03:21:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM052924SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Jun 05 03:20:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	190790	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	198664	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	83396	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.275	65	145205	24.732	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.920%
7) Chloroethane-d5	2.799	69	139357	24.548	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.200%
11) 1,1-Dichloroethene-d2	3.911	65	25010	23.996	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	96.000%
21) 2-Butanone-d5	6.981	46	14319	31.886	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	63.780%
24) Chloroform-d	7.569	84	136324	25.555	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	102.200%
26) 1,2-Dichloroethane-d4	8.228	65	65101	26.454	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.800%
32) Benzene-d6	8.199	84	264121	23.982	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.920%
36) 1,2-Dichloropropane-d6	9.210	67	76763	24.197	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.800%
41) Toluene-d8	10.269	98	256383	24.863	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.440%
43) trans-1,3-Dichloroprop...	10.522	79	34813	26.108	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.440%
47) 2-Hexanone-d5	10.875	63	23177	56.513	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	113.020%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	71199	25.338	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.360%
66) 1,2-Dichlorobenzene-d4	13.816	152	81885	28.450	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	113.800%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	3.934	96	101690	38.486	ug/L	94
13) Acetone	4.017	43	47821	73.556	ug/L	95
16) Methylene chloride	4.799	84	70710	20.800	ug/L	95
18) Methyl tert-butyl Ether	5.322	73	233866	46.179	ug/L #	89
19) 1,1-Dichloroethane	6.105	63	128682	27.990	ug/L	98
22) 2-Butanone	7.075	43	57594	84.329	ug/L	90
25) Chloroform	7.599	83	200473	38.407	ug/L	95
33) Benzene	8.246	78	86474	7.308	ug/L	100
37) 1,2-Dichloropropane	9.299	63	49951	17.235	ug/L	98
38) Bromodichloromethane	9.581	83	35046	8.698	ug/L	97
39) cis-1,3-Dichloropropene	10.016	75	131934	29.161	ug/L	95
40) 4-Methyl-2-pentanone	10.157	43	85134	70.366	ug/L	97
42) Toluene	10.334	91	225721	17.179	ug/L	95
44) trans-1,3-Dichloropropene	10.552	75	157130	41.070	ug/L	96
45) 1,1,2-Trichloroethane	10.728	97	20909	8.223	ug/L	88
46) Tetrachloroethene	10.810	164	47758	17.798	ug/L	96
48) 2-Hexanone	10.922	43	91303	87.211	ug/L	97
50) 1,2-Dibromoethane	11.175	107	67552	28.908	ug/L	98
51) Chlorobenzene	11.604	112	209978	24.019	ug/L	98

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

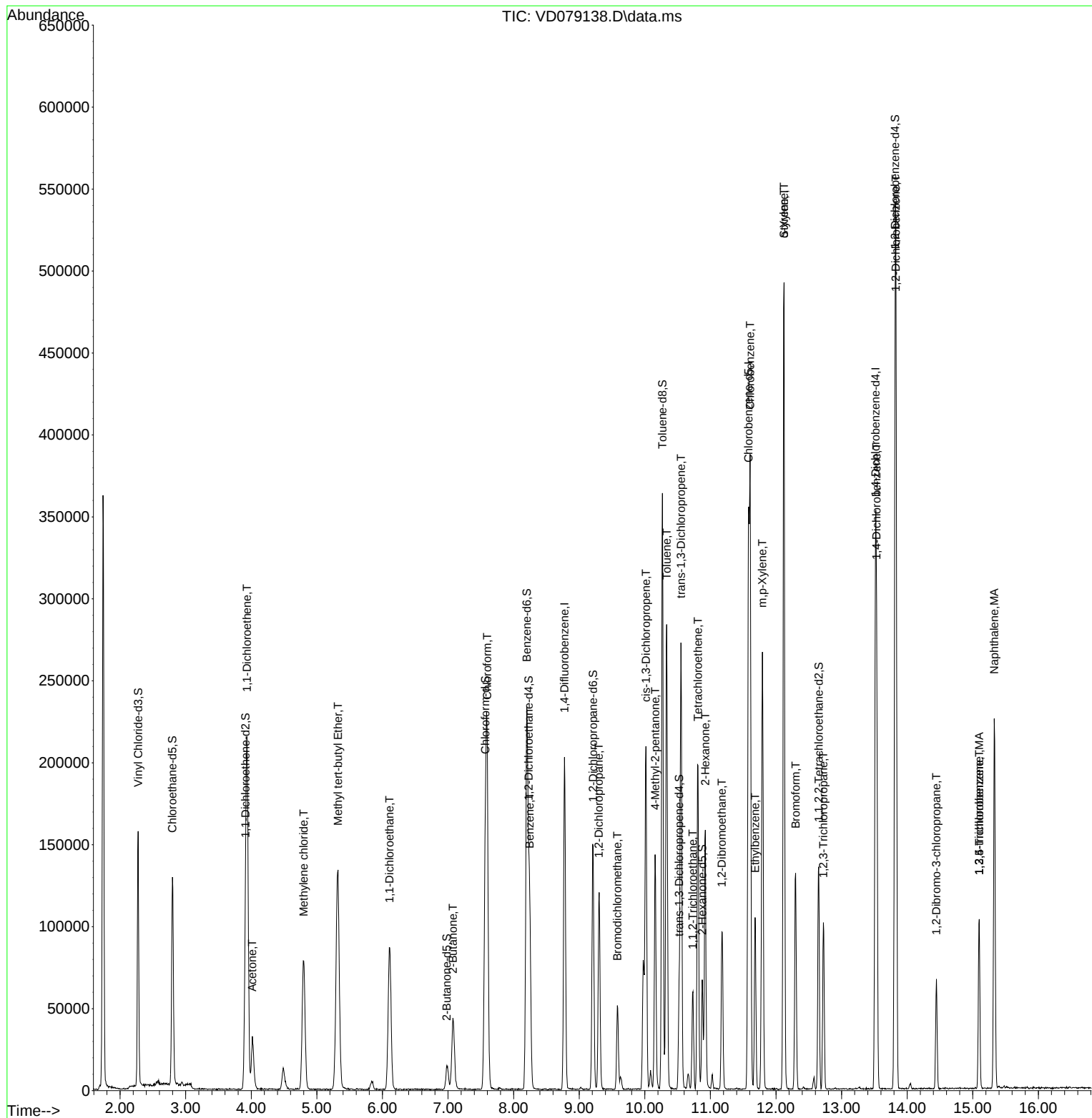
52) Ethylbenzene	11.681	91	76691	5.596	ug/L	96
53) m,p-Xylene	11.793	106	90455	16.822	ug/L	93
54) o-Xylene	12.122	106	142751	27.478	ug/L	91
55) Styrene	12.122	104	9095	0.987	ug/L #	1
59) Bromoform	12.298	173	60188	39.378	ug/L	98
61) 1,2,3-Trichloropropane	12.722	75	43085	29.262	ug/L	99
65) 1,4-Dichlorobenzene	13.534	146	96915	17.266	ug/L	99
67) 1,2-Dichlorobenzene	13.828	146	180992	36.959	ug/L	95
68) 1,2-Dibromo-3-chloropr...	14.445	75	15893	52.509	ug/L	89
69) 1,3,5-Trichlorobenzene	15.098	180	35707	10.687	ug/L	99
70) 1,2,4-trichlorobenzene	15.098	180	35707	12.868	ug/L	97
71) Naphthalene	15.328	128	204103	39.331	ug/L	100

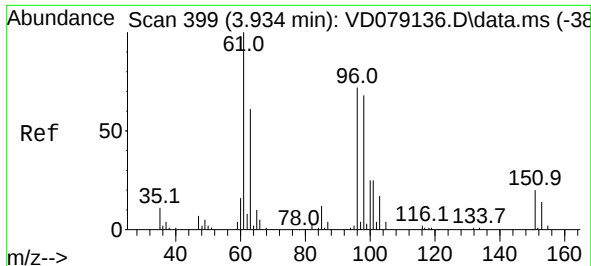
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 38.486 ug/L

RT: 3.934 min Scan# 399

Delta R.T. 0.000 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

ClientSampleId :

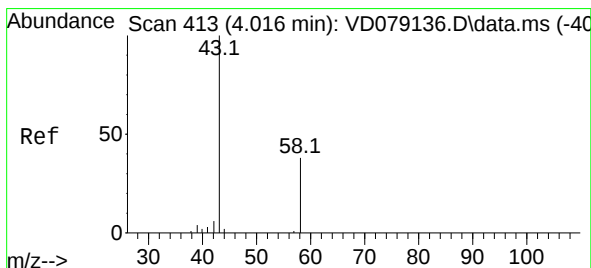
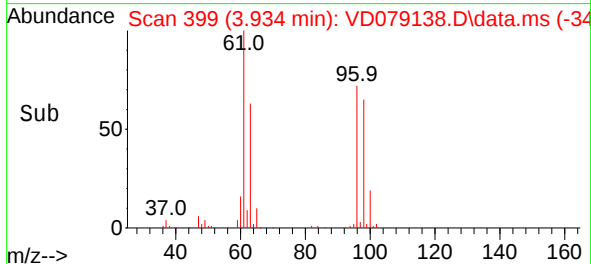
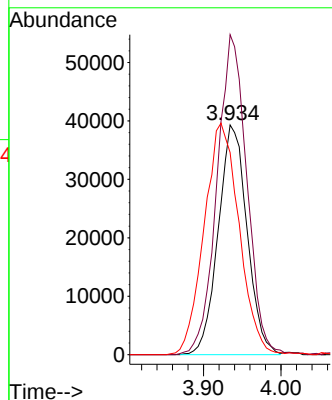
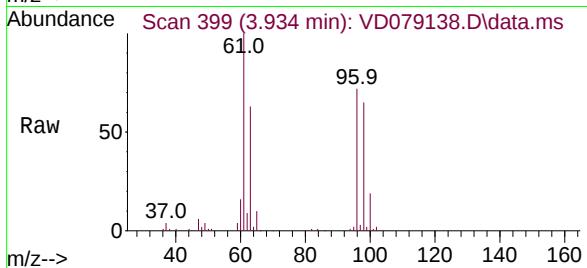
Tgt Ion: 96 Resp: 101690

Ion Ratio Lower Upper

96 100

61 139.2 93.9 174.3

63 87.9 67.7 125.7



#13

Acetone

Concen: 73.556 ug/L

RT: 4.017 min Scan# 413

Delta R.T. 0.000 min

Lab File: VD079138.D

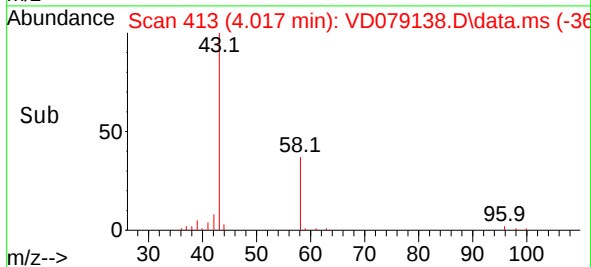
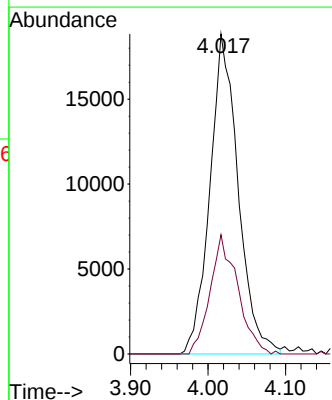
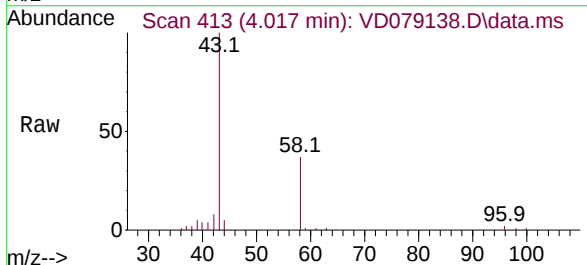
Acq: 04 Jun 2024 11:26

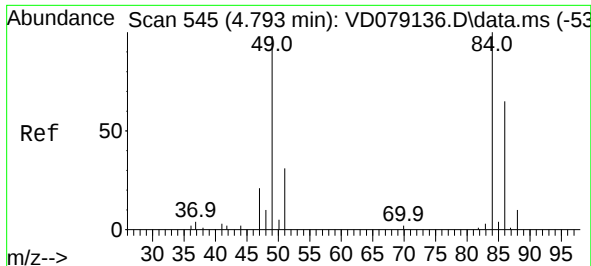
Tgt Ion: 43 Resp: 47821

Ion Ratio Lower Upper

43 100

58 36.2 0.0 78.2





#16

Methylene chloride

Concen: 20.800 ug/L

RT: 4.799 min Scan# 545

Delta R.T. 0.006 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

ClientSampleId :

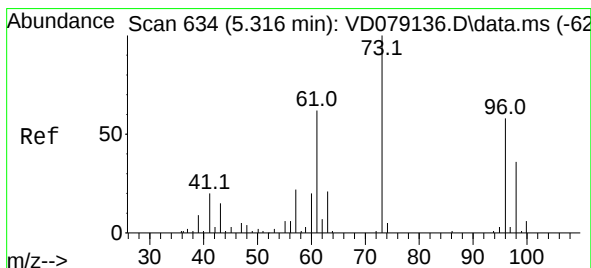
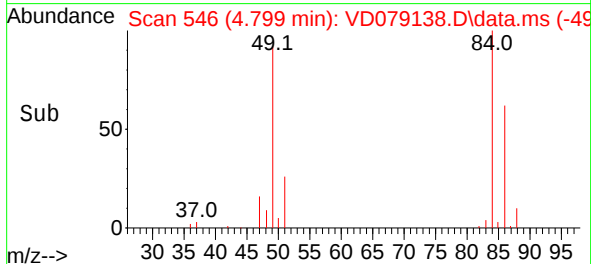
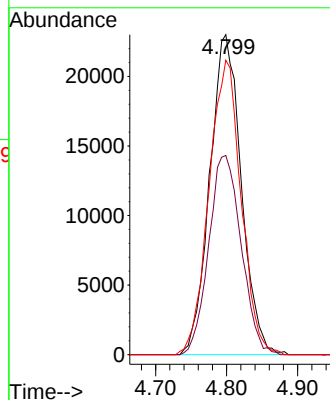
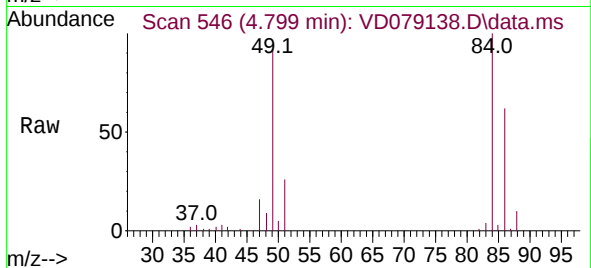
Tgt Ion: 84 Resp: 70710

Ion Ratio Lower Upper

84 100

86 62.2 40.9 76.0

49 92.0 67.5 125.3



#18

Methyl tert-butyl Ether

Concen: 46.179 ug/L

RT: 5.322 min Scan# 635

Delta R.T. 0.006 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

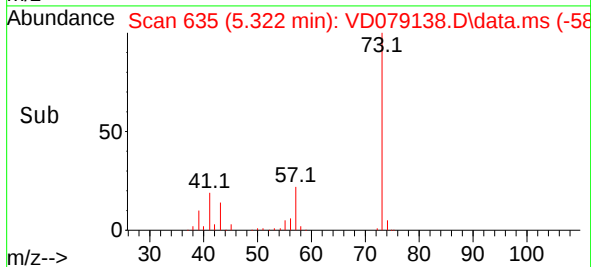
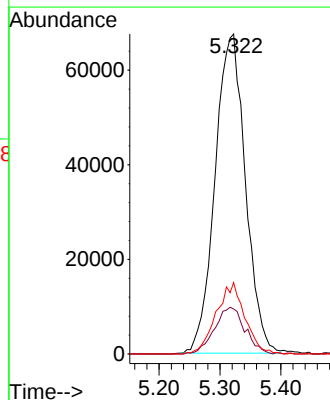
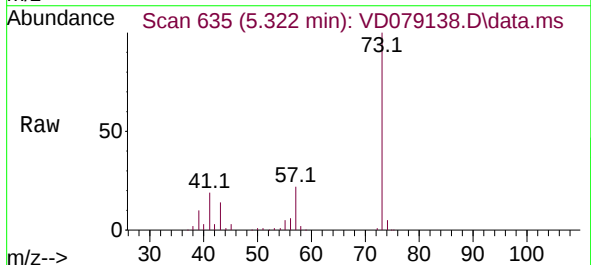
Tgt Ion: 73 Resp: 233866

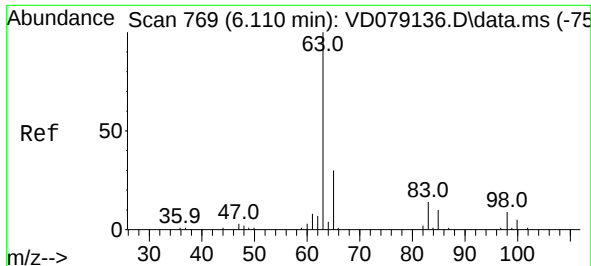
Ion Ratio Lower Upper

73 100

43 14.6 12.0 18.0

57 21.0 9.6 14.4#





#19

1,1-Dichloroethane

Concen: 27.990 ug/L

RT: 6.105 min Scan# 768

Delta R.T. -0.006 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

ClientSampleId :

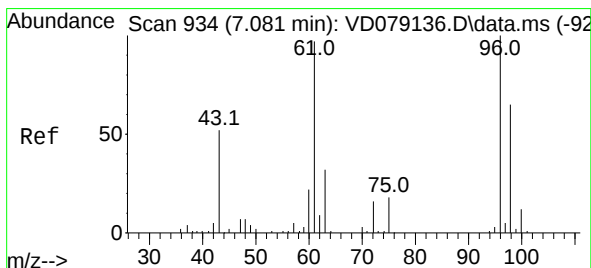
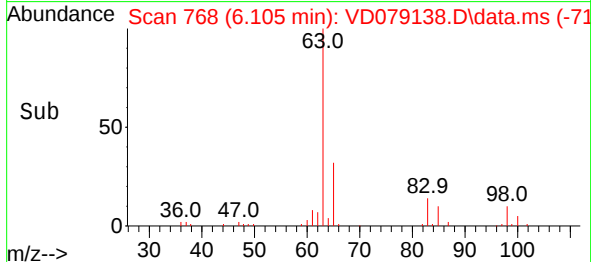
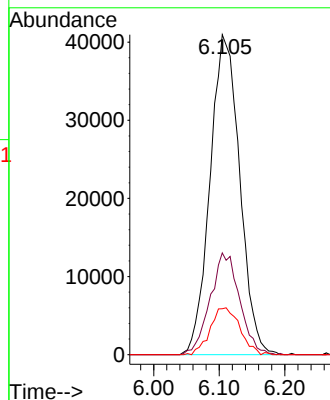
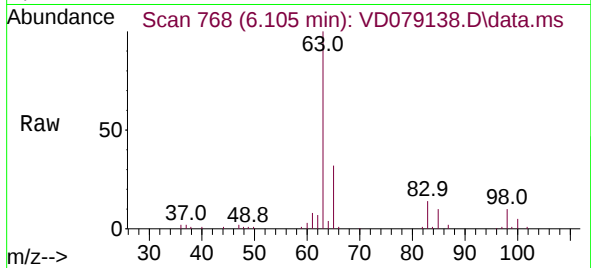
Tgt Ion: 63 Resp: 128682

Ion Ratio Lower Upper

63 100

65 31.8 22.8 42.4

83 14.3 8.6 16.0



#22

2-Butanone

Concen: 84.329 ug/L

RT: 7.075 min Scan# 933

Delta R.T. -0.006 min

Lab File: VD079138.D

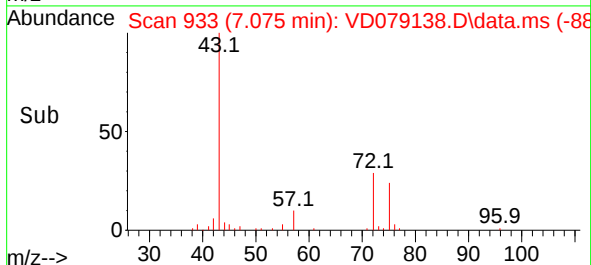
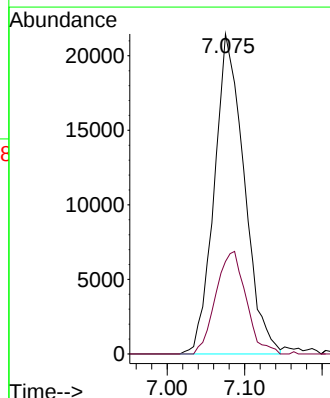
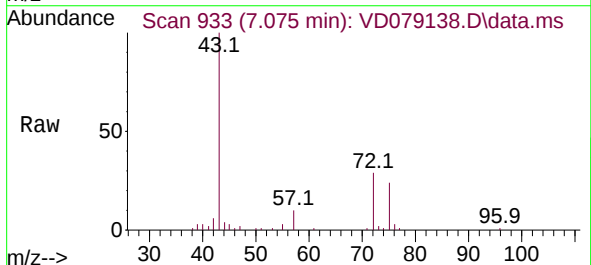
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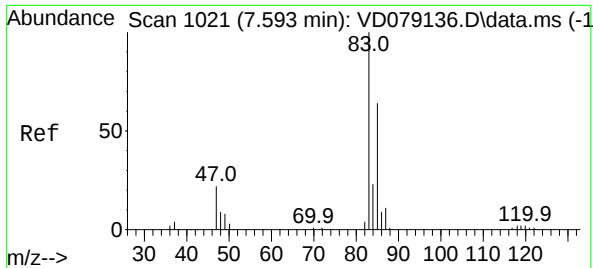
Tgt Ion: 43 Resp: 57594

Ion Ratio Lower Upper

43 100

72 32.4 19.3 57.8

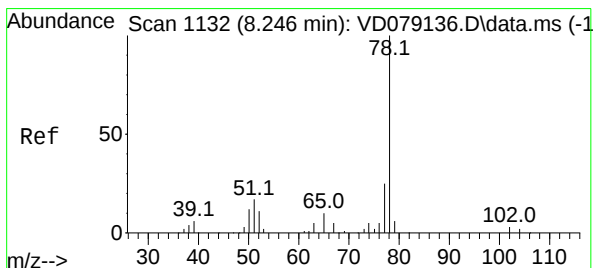
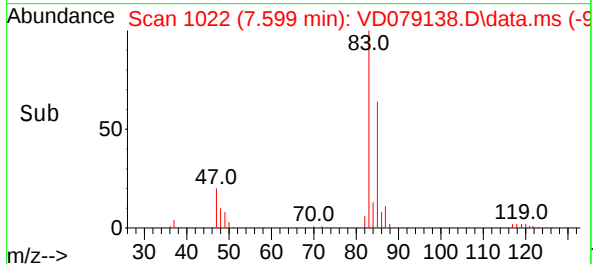
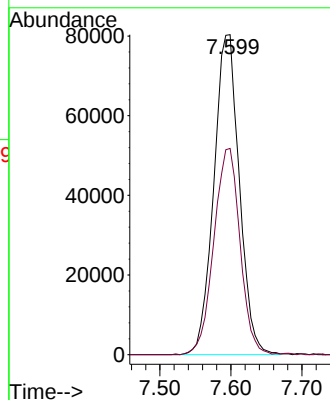
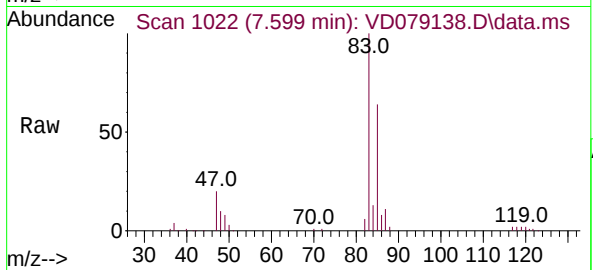




#25
Chloroform
Concen: 38.407 ug/L
RT: 7.599 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VD079138.D
Acq: 04 Jun 2024 11:26

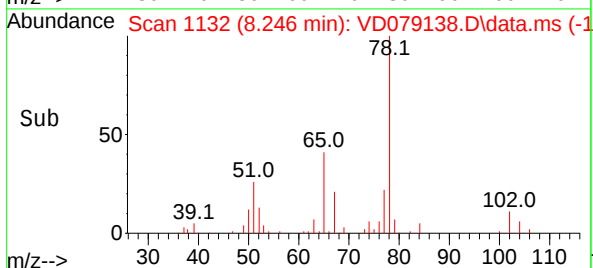
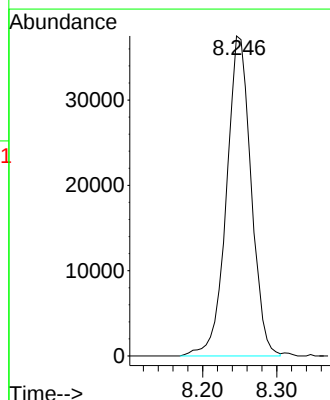
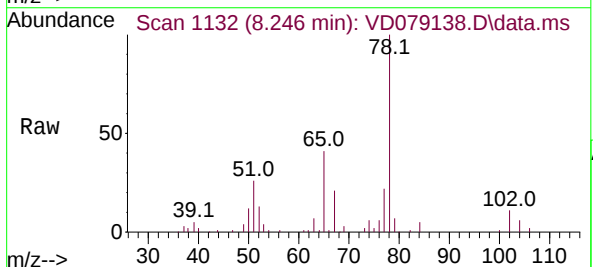
Instrument :
MSVOA_D
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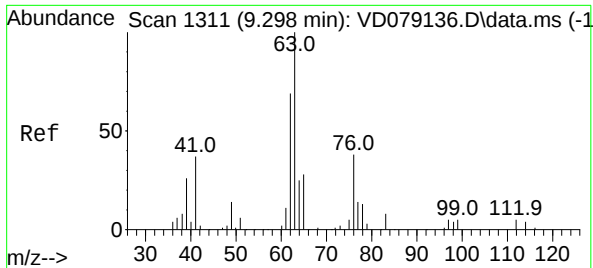
Tgt Ion: 83 Resp: 200473
Ion Ratio Lower Upper
83 100
85 64.4 47.9 89.1



#33
Benzene
Concen: 7.308 ug/L
RT: 8.246 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VD079138.D
Acq: 04 Jun 2024 11:26

Tgt Ion: 78 Resp: 86474

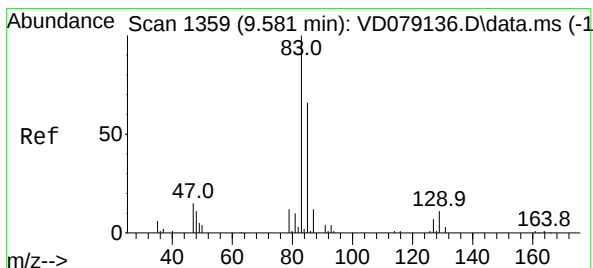
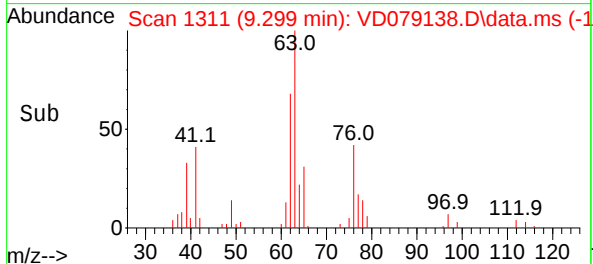
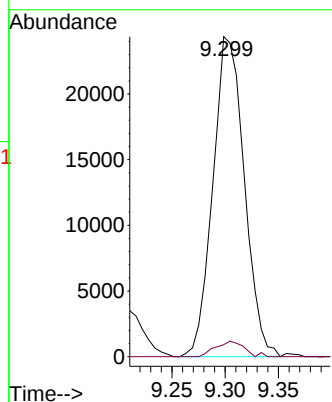
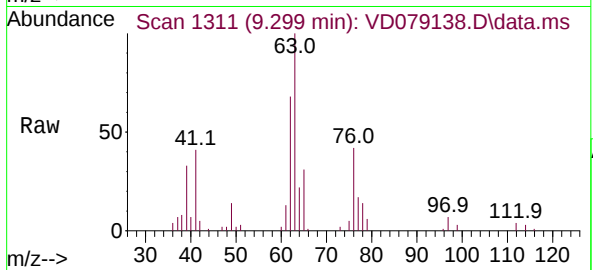




#37
1,2-Dichloropropane
Concen: 17.235 ug/L
RT: 9.299 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VD079138.D
Acq: 04 Jun 2024 11:26

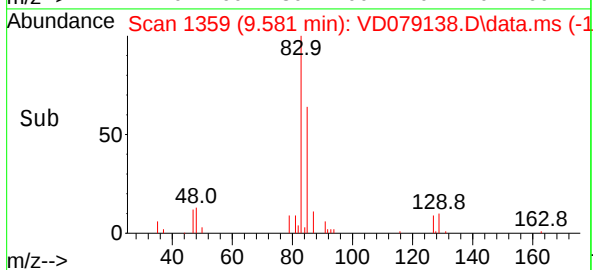
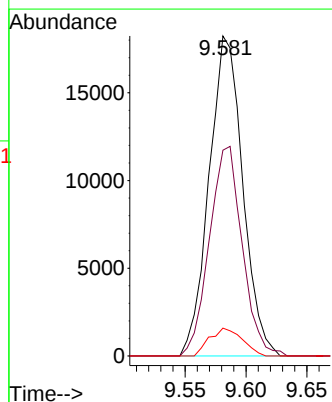
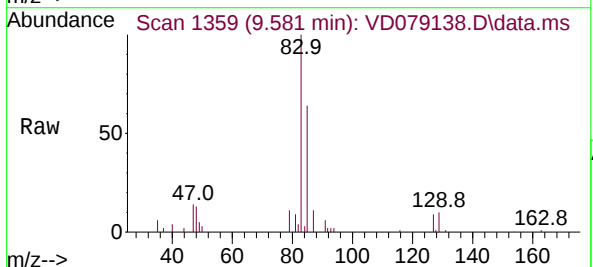
Instrument :
MSVOA_D
ClientSampleId :

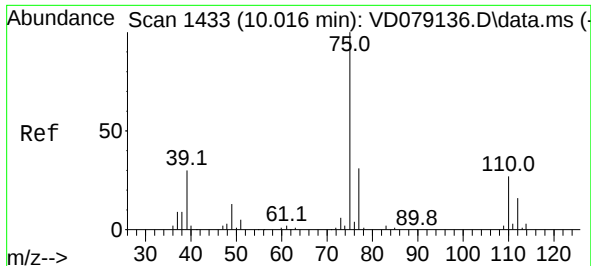
Tgt Ion: 63 Resp: 49951
Ion Ratio Lower Upper
63 100
112 4.2 3.9 5.9



#38
Bromodichloromethane
Concen: 8.698 ug/L
RT: 9.581 min Scan# 1359
Delta R.T. 0.000 min
Lab File: VD079138.D
Acq: 04 Jun 2024 11:26

Tgt Ion: 83 Resp: 35046
Ion Ratio Lower Upper
83 100
85 64.3 46.5 86.5
127 9.6 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 29.161 ug/L

RT: 10.016 min Scan# 1433

Delta R.T. 0.000 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

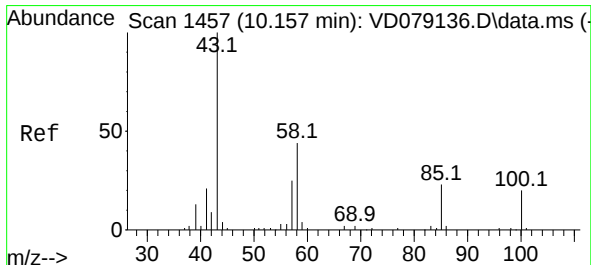
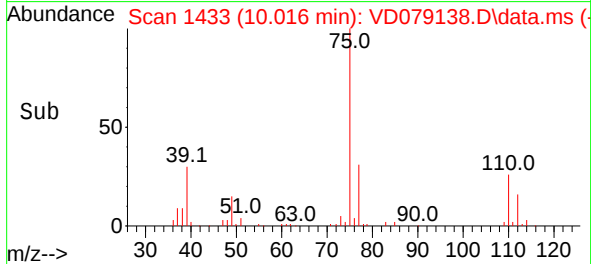
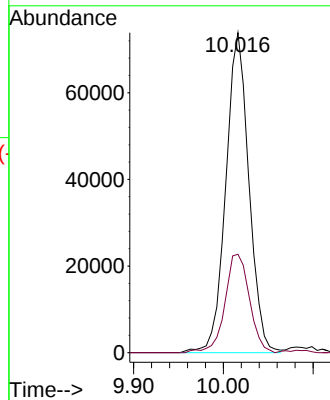
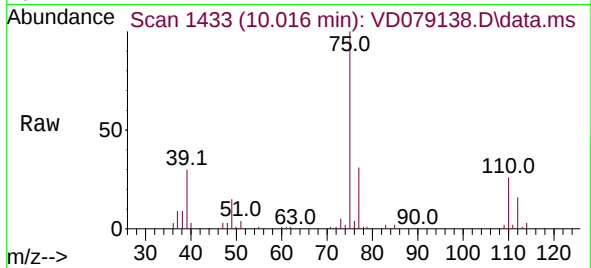
ClientSampleId :

Tgt Ion: 75 Resp: 131934

Ion Ratio Lower Upper

75 100

77 30.7 23.4 43.4



#40

4-Methyl-2-pentanone

Concen: 70.366 ug/L

RT: 10.157 min Scan# 1457

Delta R.T. 0.000 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

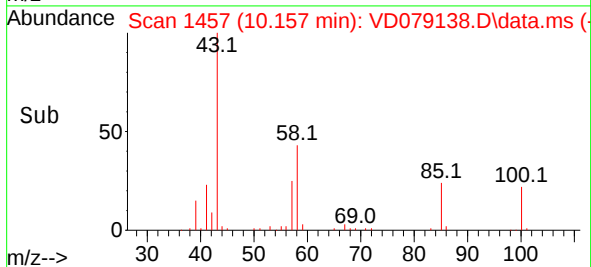
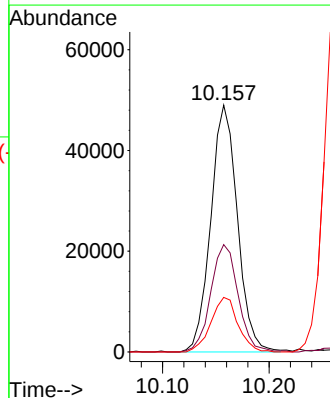
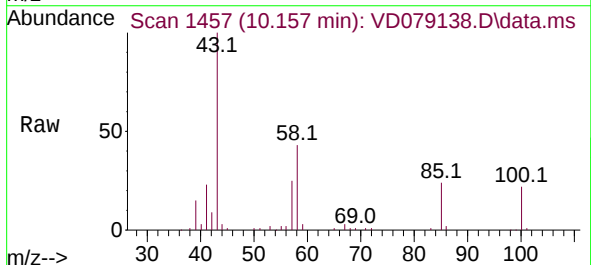
Tgt Ion: 43 Resp: 85134

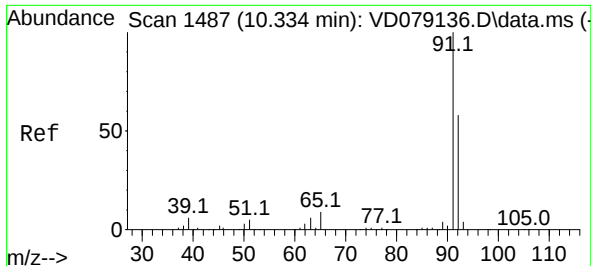
Ion Ratio Lower Upper

43 100

58 44.5 34.0 51.0

100 22.4 16.9 25.3





#42

Toluene

Concen: 17.179 ug/L

RT: 10.334 min Scan# 1487

Delta R.T. 0.000 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

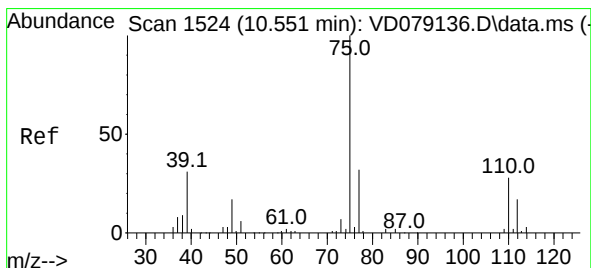
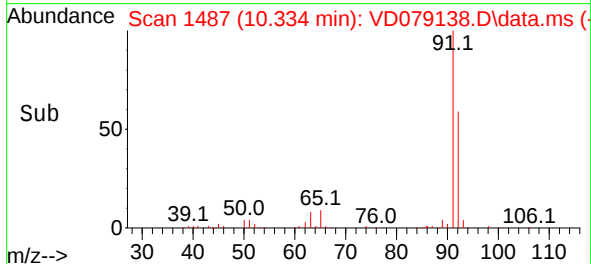
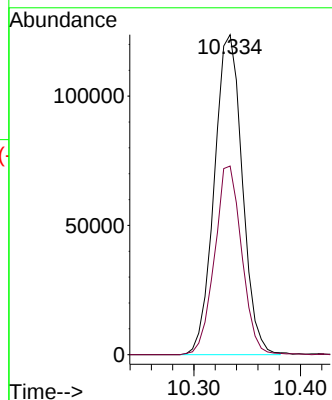
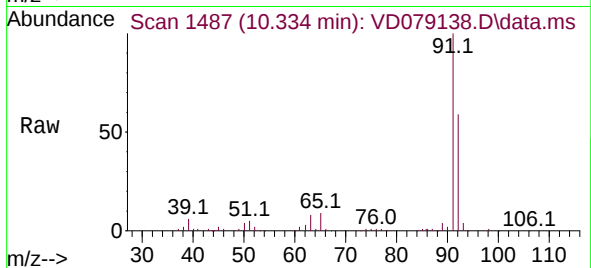
ClientSampleId :

Tgt Ion: 91 Resp: 225721

Ion Ratio Lower Upper

91 100

92 58.9 38.9 72.3



#44

trans-1,3-Dichloropropene

Concen: 41.070 ug/L

RT: 10.552 min Scan# 1524

Delta R.T. 0.000 min

Lab File: VD079138.D

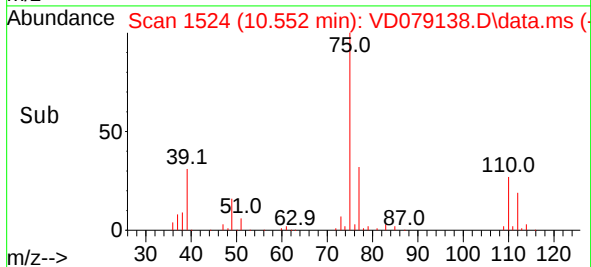
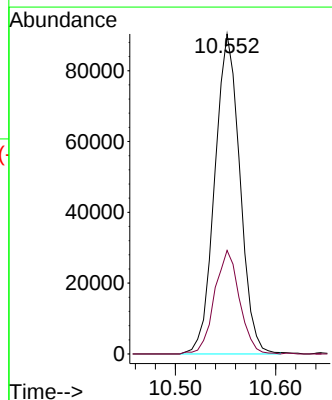
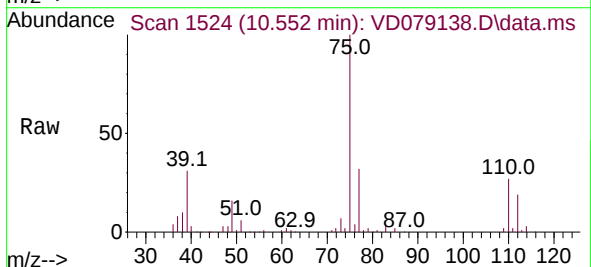
Acq: 04 Jun 2024 11:26

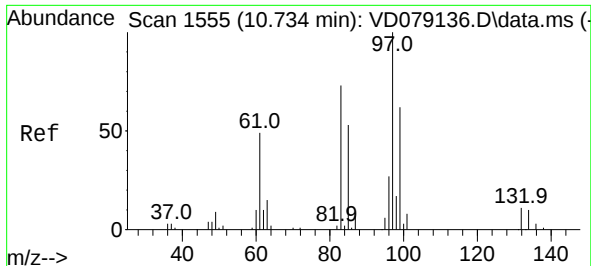
Tgt Ion: 75 Resp: 157130

Ion Ratio Lower Upper

75 100

77 32.3 24.3 45.1





#45

1,1,2-Trichloroethane

Concen: 8.223 ug/L

RT: 10.728 min Scan# 1554

Delta R.T. -0.006 min

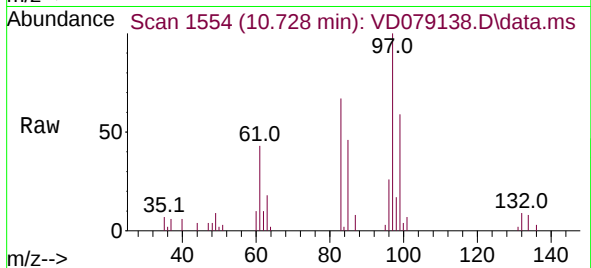
Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 97 Resp: 20909

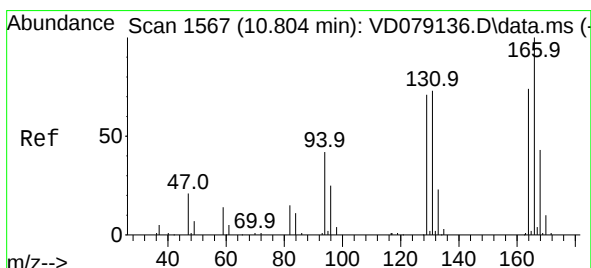
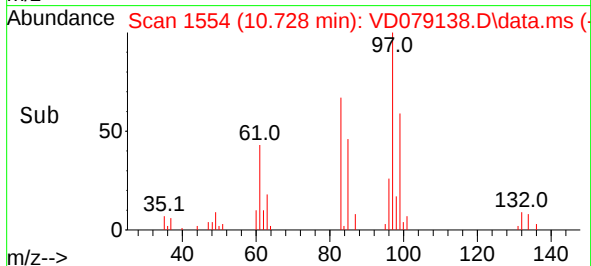
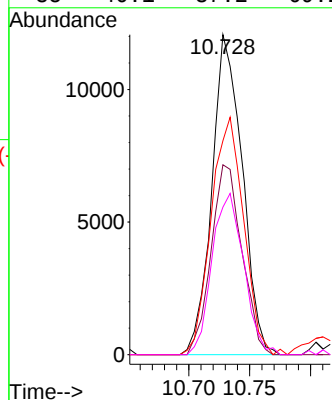
Ion Ratio Lower Upper

97 100

99 59.3 43.0 79.8

83 66.8 58.9 109.5

85 46.1 37.2 69.2



#46

Tetrachloroethene

Concen: 17.798 ug/L

RT: 10.810 min Scan# 1568

Delta R.T. 0.006 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Tgt Ion:164 Resp: 47758

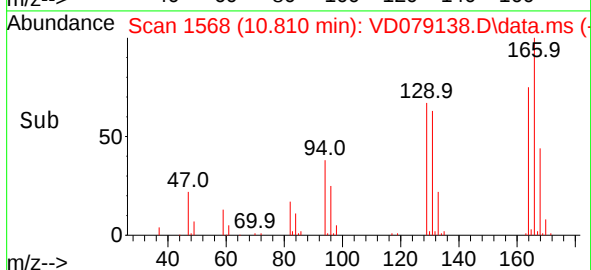
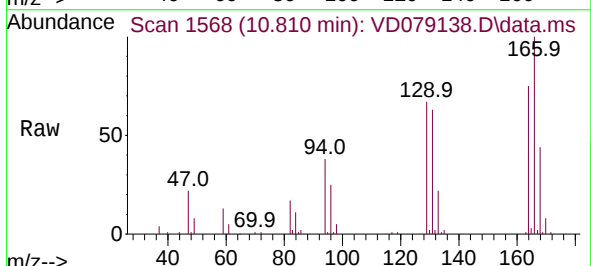
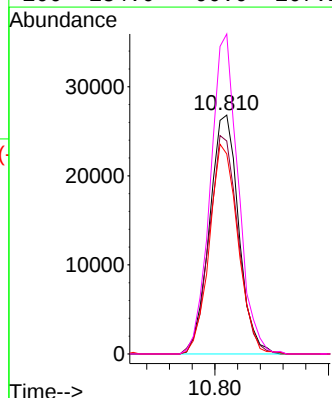
Ion Ratio Lower Upper

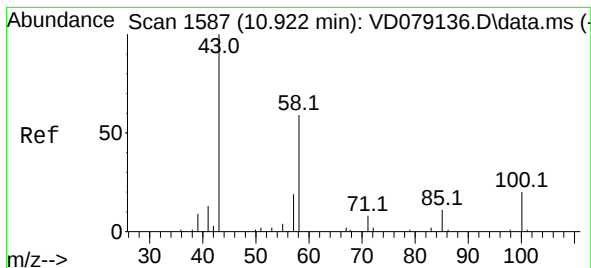
164 100

129 89.2 64.3 119.5

131 83.7 61.2 113.8

166 134.0 90.0 167.2





#48

2-Hexanone

Concen: 87.211 ug/L

RT: 10.922 min Scan# 1587

Delta R.T. 0.000 min

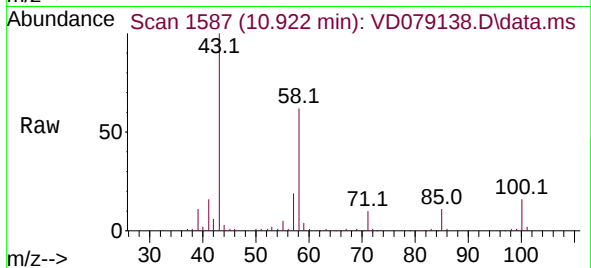
Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 43 Resp: 91303

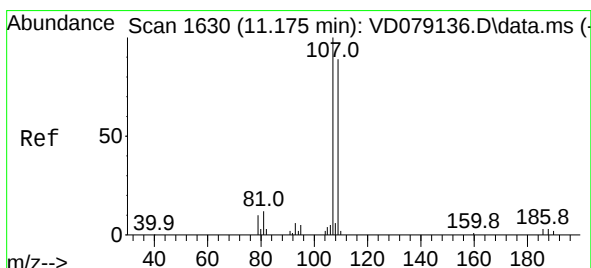
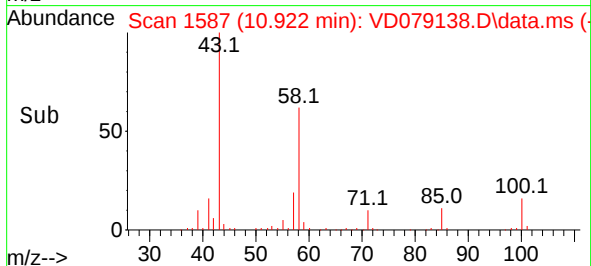
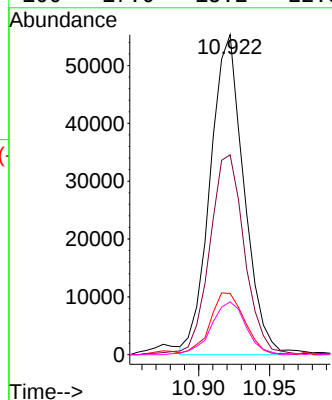
Ion Ratio Lower Upper

43 100

58 64.6 50.1 75.1

57 19.8 16.5 24.7

100 17.0 15.2 22.8



#50

1,2-Dibromoethane

Concen: 28.908 ug/L

RT: 11.175 min Scan# 1630

Delta R.T. 0.000 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

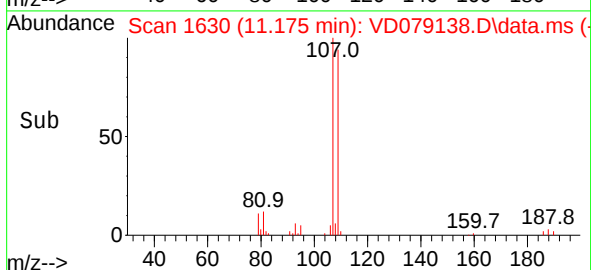
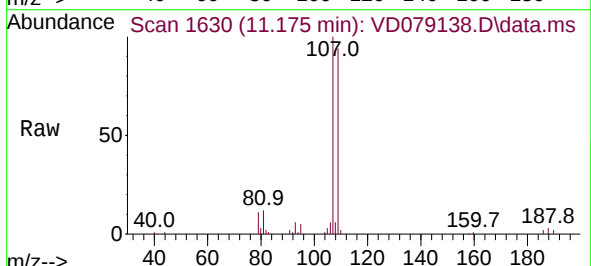
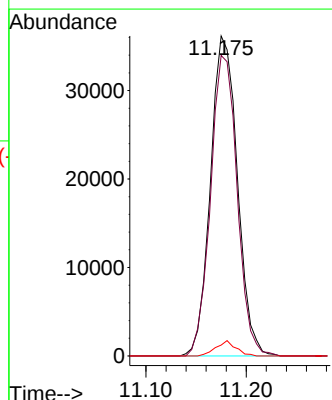
Tgt Ion:107 Resp: 67552

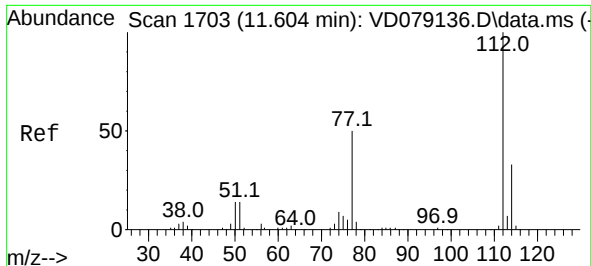
Ion Ratio Lower Upper

107 100

109 93.9 64.5 119.7

188 3.4 2.6 3.8

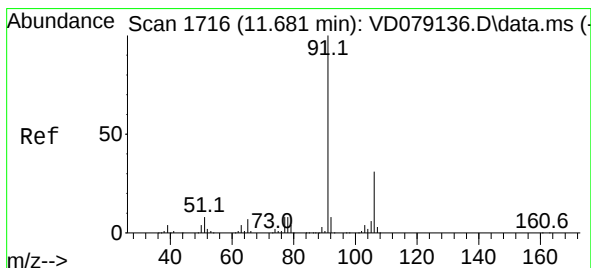
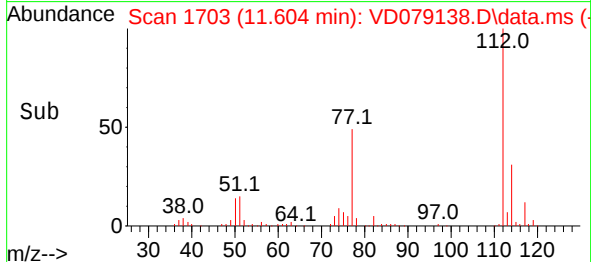
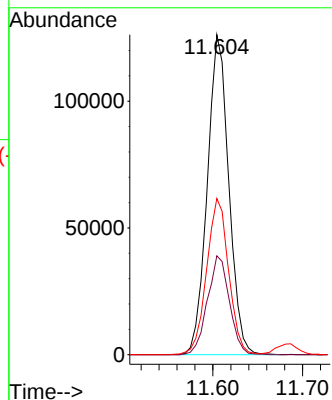
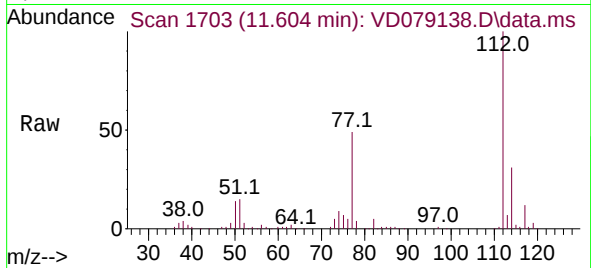




#51
Chlorobenzene
Concen: 24.019 ug/L
RT: 11.604 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VD079138.D
Acq: 04 Jun 2024 11:26

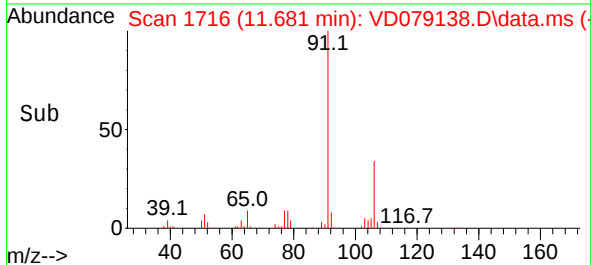
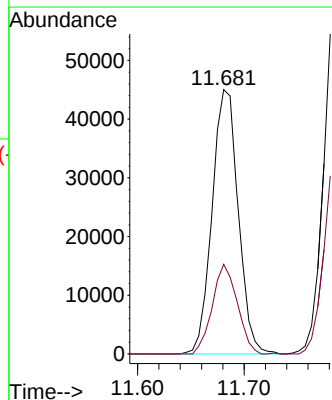
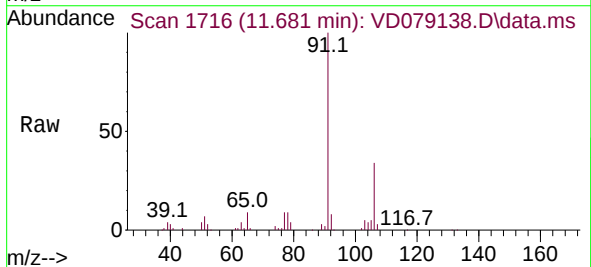
Instrument :
MSVOA_D
ClientSampleId :

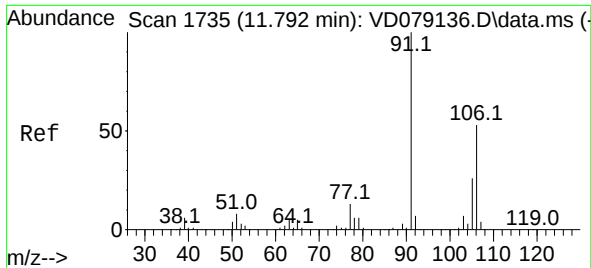
Tgt Ion:112 Resp: 209978
Ion Ratio Lower Upper
112 100
114 30.9 22.7 42.3
77 48.8 38.4 57.6



#52
Ethylbenzene
Concen: 5.596 ug/L
RT: 11.681 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VD079138.D
Acq: 04 Jun 2024 11:26

Tgt Ion: 91 Resp: 76691
Ion Ratio Lower Upper
91 100
106 33.9 22.3 41.5





#53

m,p-Xylene

Concen: 16.822 ug/L

RT: 11.793 min Scan# 1735

Delta R.T. 0.000 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

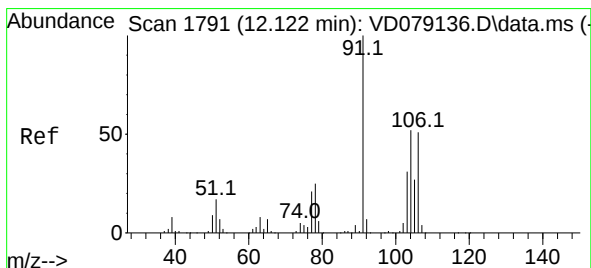
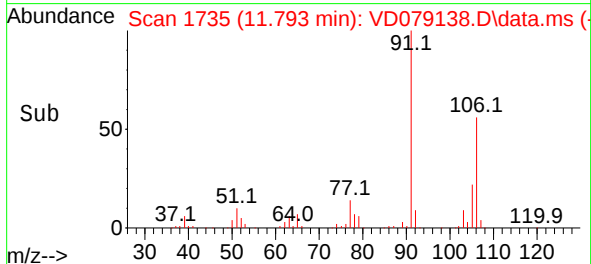
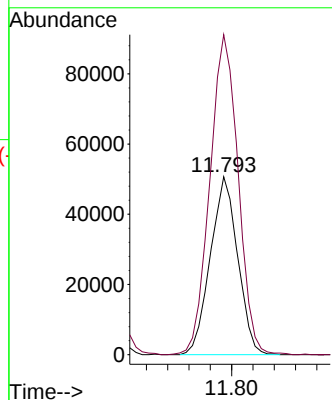
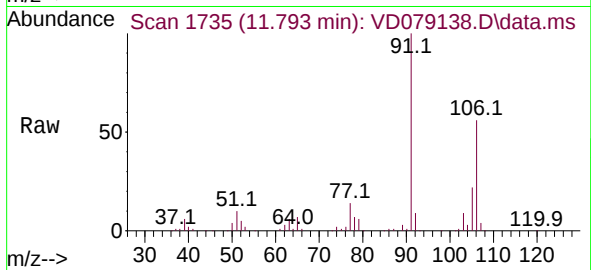
ClientSampleId :

Tgt Ion:106 Resp: 90455

Ion Ratio Lower Upper

106 100

91 179.8 133.1 247.1



#54

o-Xylene

Concen: 27.478 ug/L

RT: 12.122 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VD079138.D

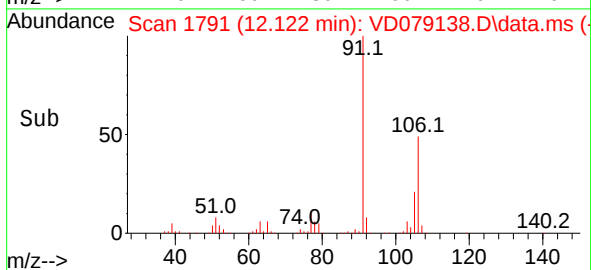
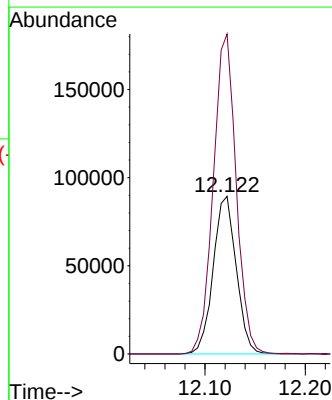
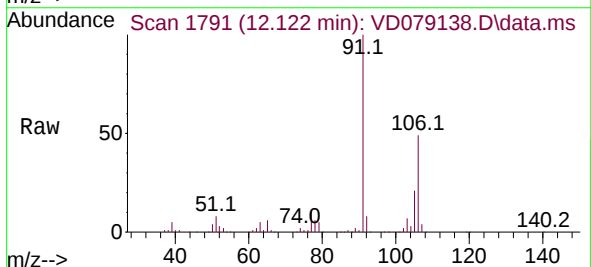
Acq: 04 Jun 2024 11:26

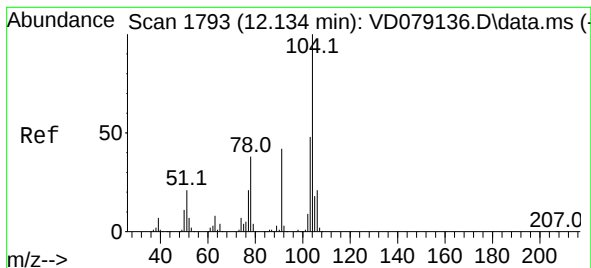
Tgt Ion:106 Resp: 142751

Ion Ratio Lower Upper

106 100

91 203.1 132.9 246.9





#55

Styrene

Concen: 0.987 ug/L

RT: 12.122 min Scan# 1791

Delta R.T. -0.012 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

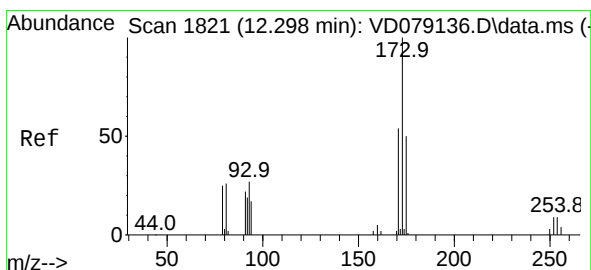
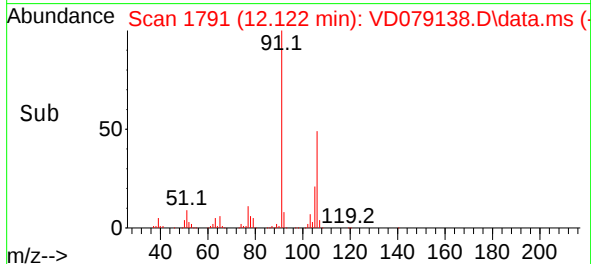
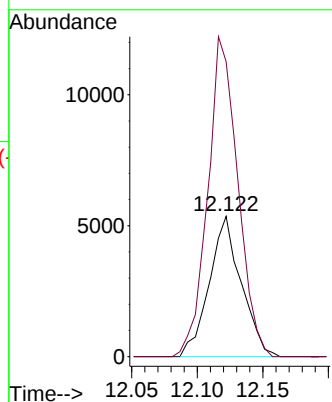
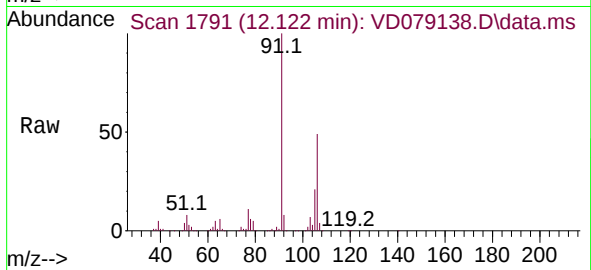
ClientSampleId :

Tgt Ion:104 Resp: 9095

Ion Ratio Lower Upper

104 100

78 210.2 27.8 51.6#



#59

Bromoform

Concen: 39.378 ug/L

RT: 12.298 min Scan# 1821

Delta R.T. 0.000 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

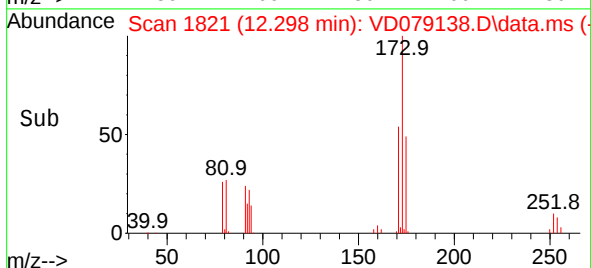
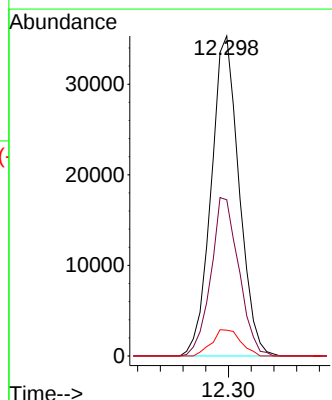
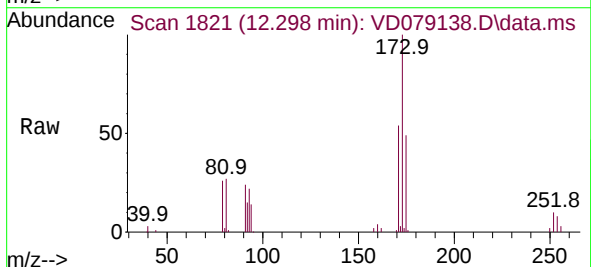
Tgt Ion:173 Resp: 60188

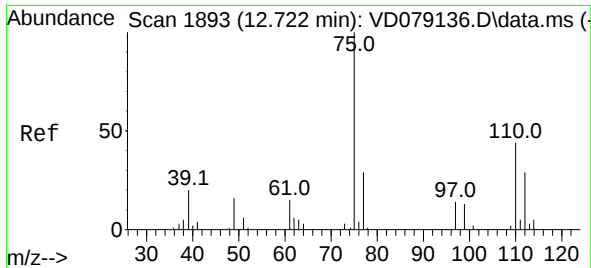
Ion Ratio Lower Upper

173 100

175 49.6 38.2 57.4

254 8.5 7.0 10.6

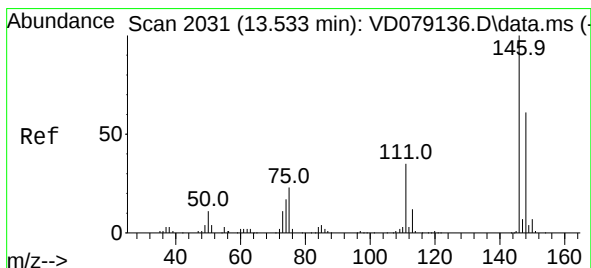
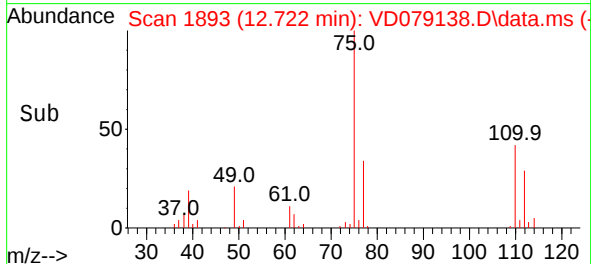
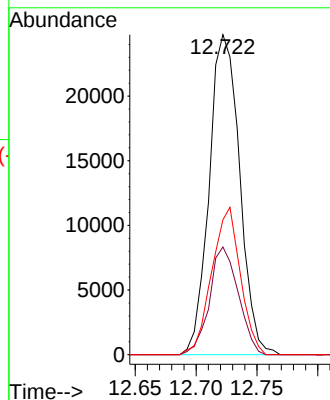
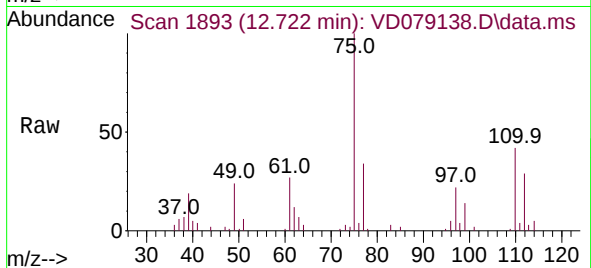




#61
1,2,3-Trichloropropane
Concen: 29.262 ug/L
RT: 12.722 min Scan# 1893
Delta R.T. 0.000 min
Lab File: VD079138.D
Acq: 04 Jun 2024 11:26

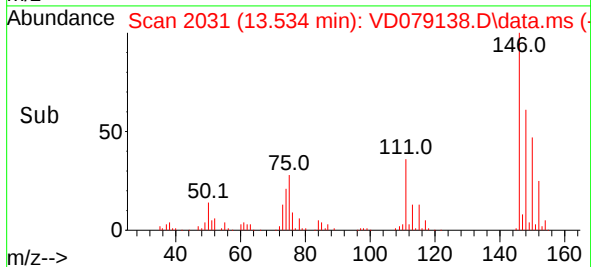
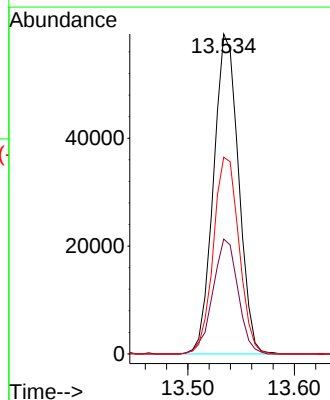
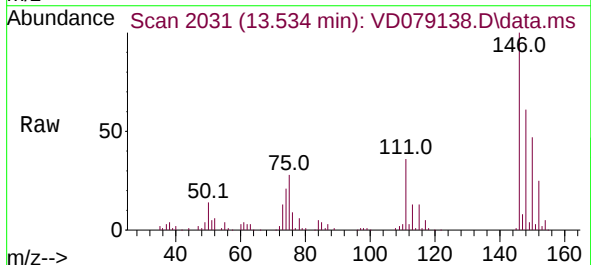
Instrument :
MSVOA_D
ClientSampleId :

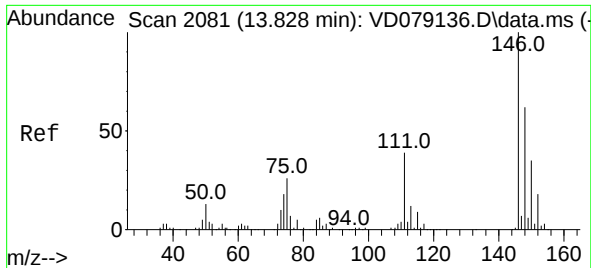
Tgt Ion: 75 Resp: 43085
Ion Ratio Lower Upper
75 100
77 31.9 25.9 38.9
110 43.3 34.2 51.4



#65
1,4-Dichlorobenzene
Concen: 17.266 ug/L
RT: 13.534 min Scan# 2031
Delta R.T. 0.000 min
Lab File: VD079138.D
Acq: 04 Jun 2024 11:26

Tgt Ion:146 Resp: 96915
Ion Ratio Lower Upper
146 100
111 35.9 26.3 48.9
148 61.4 43.1 80.1





#67

1,2-Dichlorobenzene

Concen: 36.959 ug/L

RT: 13.828 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

ClientSampleId :

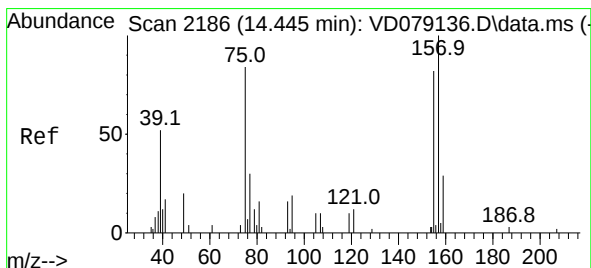
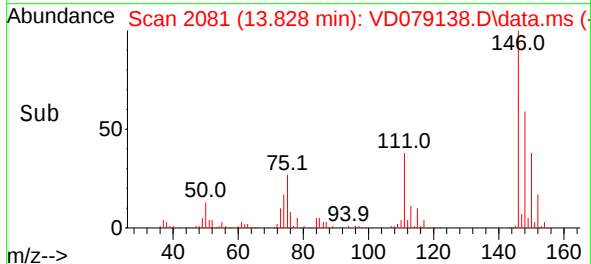
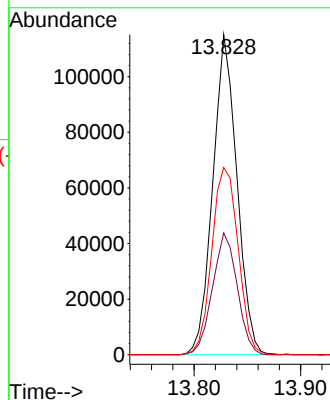
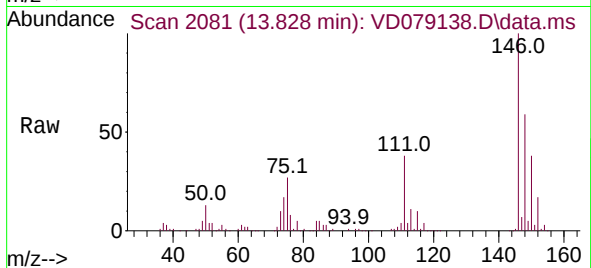
Tgt Ion:146 Resp: 180992

Ion Ratio Lower Upper

146 100

111 38.0 29.1 43.7

148 58.5 51.2 76.8



#68

1,2-Dibromo-3-chloropropane

Concen: 52.509 ug/L

RT: 14.445 min Scan# 2186

Delta R.T. 0.000 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

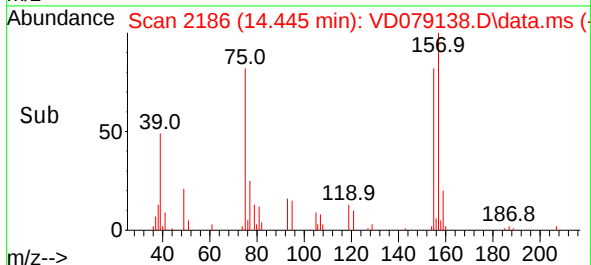
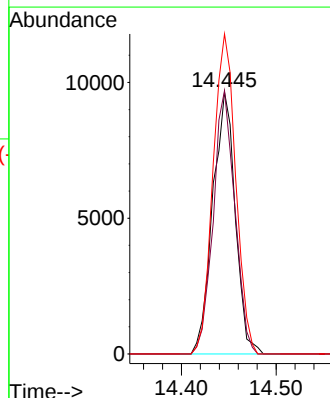
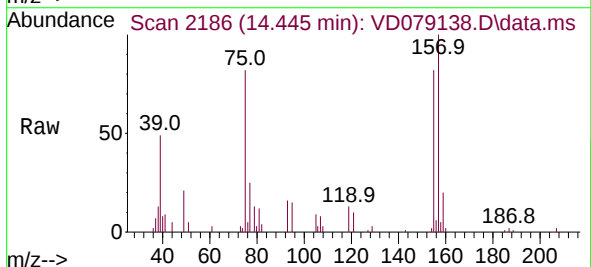
Tgt Ion: 75 Resp: 15893

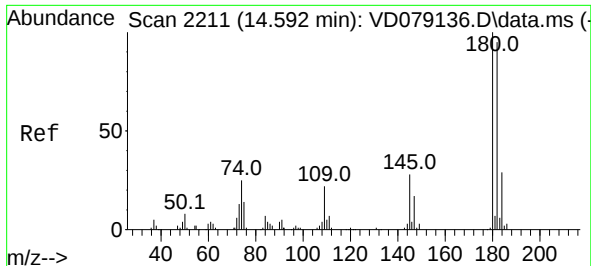
Ion Ratio Lower Upper

75 100

155 100.5 68.1 102.1

157 122.2 91.6 137.4





#69

1,3,5-Trichlorobenzene

Concen: 10.687 ug/L

RT: 15.098 min Scan# 2211

Delta R.T. 0.506 min

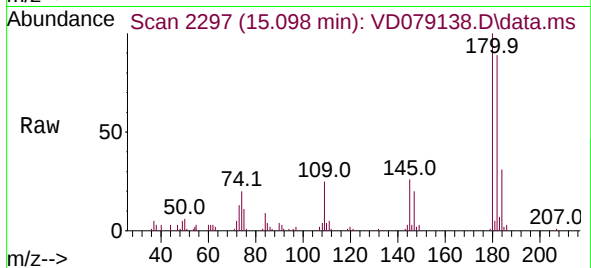
Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:180 Resp: 35707

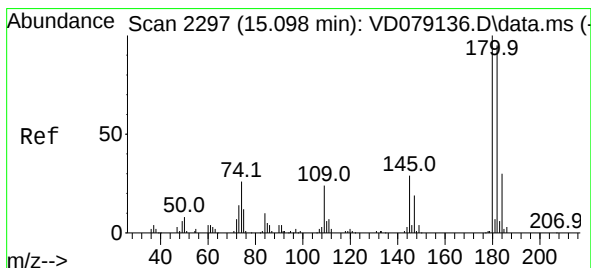
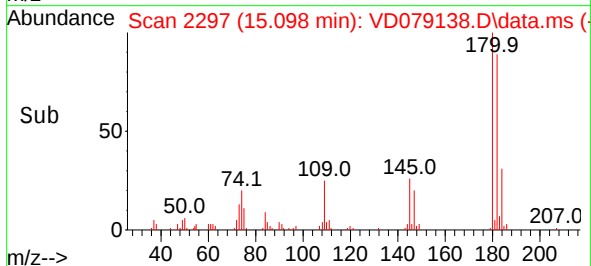
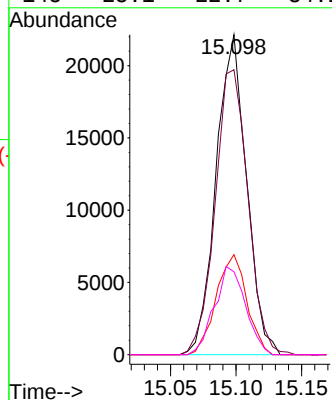
Ion Ratio Lower Upper

180 100

182 95.8 76.9 115.3

184 31.6 23.3 34.9

145 28.1 22.7 34.1



#70

1,2,4-trichlorobenzene

Concen: 12.868 ug/L

RT: 15.098 min Scan# 2297

Delta R.T. 0.000 min

Lab File: VD079138.D

Acq: 04 Jun 2024 11:26

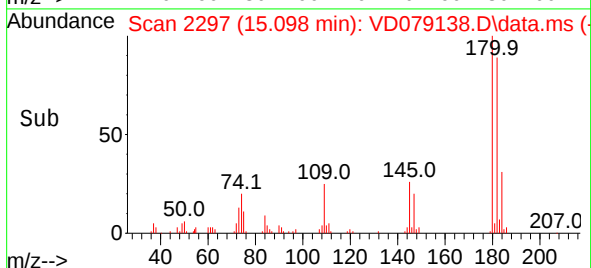
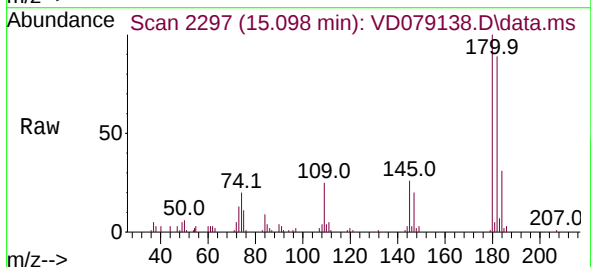
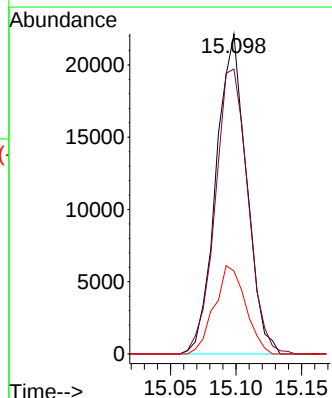
Tgt Ion:180 Resp: 35707

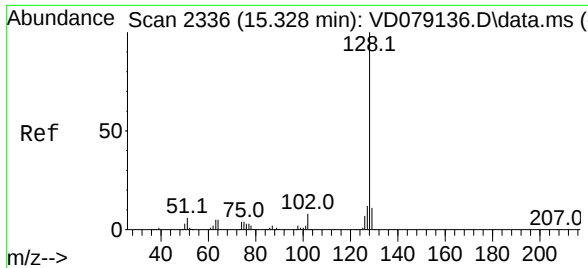
Ion Ratio Lower Upper

180 100

182 95.8 73.8 110.6

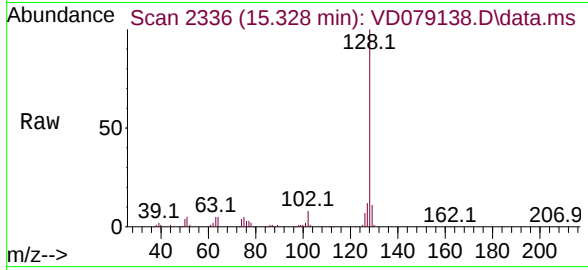
145 28.1 22.3 33.5





#71
 Naphthalene
 Concen: 39.331 ug/L
 RT: 15.328 min Scan# 24
 Delta R.T. 0.000 min
 Lab File: VD079138.D
 Acq: 04 Jun 2024 11:26

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	128	Resp:	204103
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.8	16.2
129	10.6	8.5	12.7

