

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD102023\
 Data File : VD077363.D
 Acq On : 20 Oct 2023 14:02
 Operator : JC/SY
 Sample : 04936-07
 Misc : 5.01G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 21 05:29:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D101723S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 18 03:02:43 2023
 Response via : Initial Calibration

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

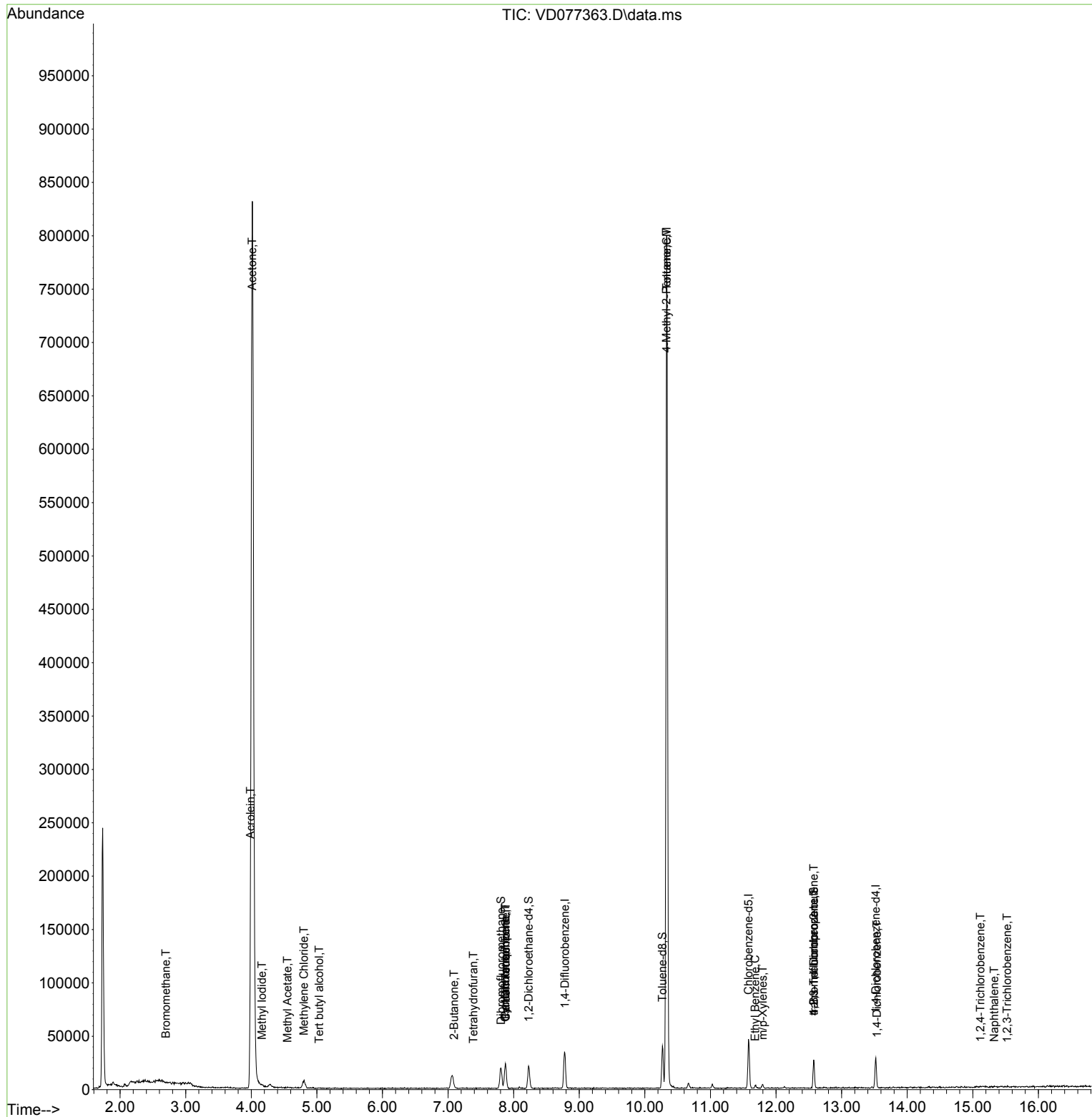
Internal Standards						
1) Pentafluorobenzene	7.875	168	18918	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.781	114	34279	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	28607	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	8652	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	15665	92.733	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 185.460%#	
35) Dibromofluoromethane	7.810	113	14455	60.023	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 120.040%	
50) Toluene-d8	10.269	98	29543	34.254	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 68.500%	
62) 4-Bromofluorobenzene	12.575	95	8591	34.604	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 69.200%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.699	94	695	2.556	ug/l	# 70
10) Methyl Iodide	4.163	142	307	1.130	ug/l	# 67
11) Tert butyl alcohol	5.034	59	59	6.209	ug/l	# 73
13) Acrolein	3.987	56	121	7.335	ug/l	# 15
16) Acetone	4.016	43	1368116	36932.671	ug/l	95
18) Methyl Acetate	4.552	43	1076	8.346	ug/l	# 42
20) Methylene Chloride	4.805	84	5774	23.196	ug/l	# 79
25) 2-Butanone	7.093	43	59	1.535	ug/l	# 37
29) Tetrahydrofuran	7.387	42	54	2.436	ug/l	# 23
31) Cyclohexane	7.869	56	266	1.012	ug/l	# 73
36) 1,1-Dichloropropene	7.875	75	1540	4.867	ug/l	# 39
38) Carbon Tetrachloride	7.881	117	1761	5.003	ug/l	# 11
51) 4-Methyl-2-Pentanone	10.328	43	3312	36.923	ug/l	# 28
52) Toluene	10.334	92	345744	551.429	ug/l	100
67) Ethyl Benzene	11.681	91	2137	2.067	ug/l	89
68) m/p-Xylenes	11.798	106	1483	3.494	ug/l	90
76) 1,2,3-Trichloropropane	12.575	75	3967	34.663	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.575	75	3967	122.859	ug/l	# 17
88) 1,4-Dichlorobenzene	13.539	146	345	1.101	ug/l	# 44
93) 1,2,4-Trichlorobenzene	15.116	180	348	2.091	ug/l	# 48
95) Naphthalene	15.328	128	1172	4.171	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.522	180	445	3.081	ug/l	# 64

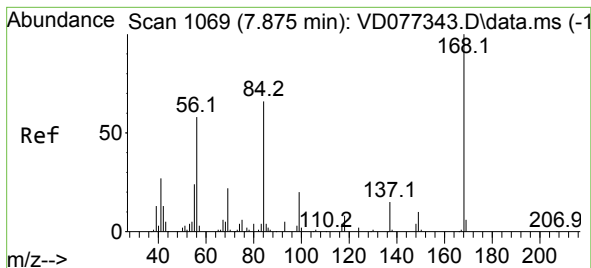
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D101723S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 18 03:02:43 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VD077363.D

Acq: 20 Oct 2023 14:02

Instrument :

MSVOA_D

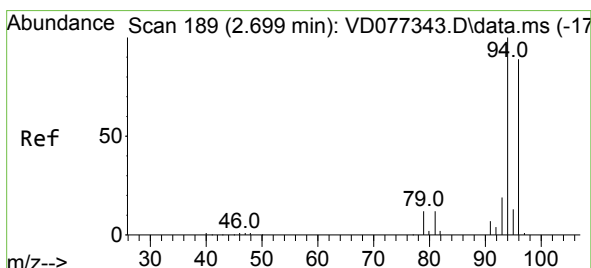
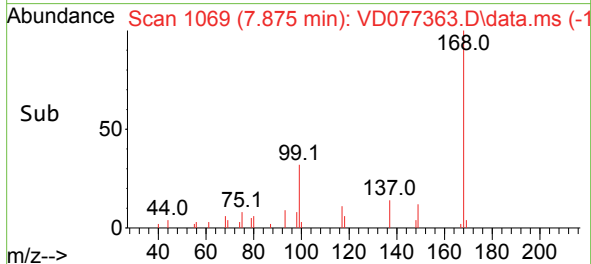
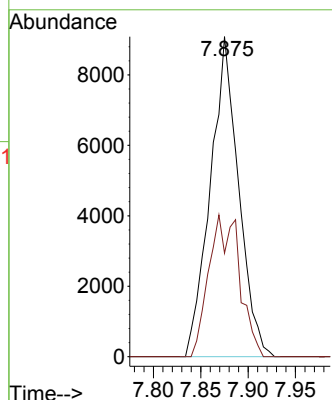
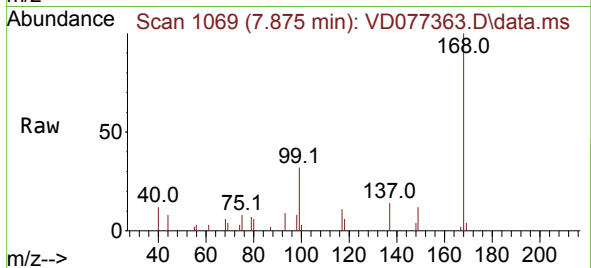
ClientSampleId :

Tgt Ion:168 Resp: 18918

Ion Ratio Lower Upper

168 100

99 32.4 36.7 55.1#



#5

Bromomethane

Concen: 2.556 ug/l

RT: 2.699 min Scan# 189

Delta R.T. -0.000 min

Lab File: VD077363.D

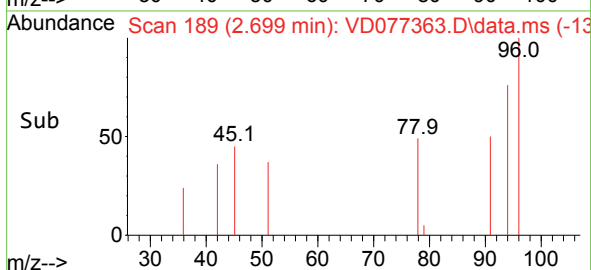
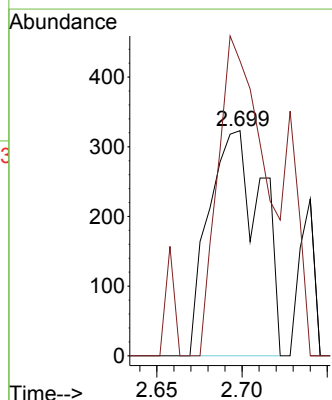
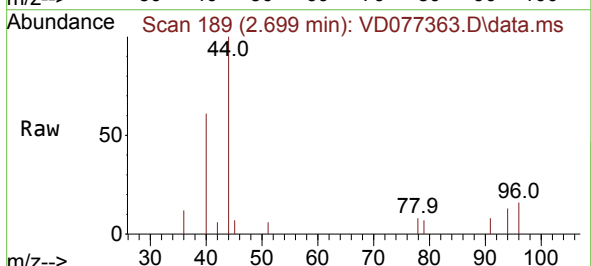
Acq: 20 Oct 2023 14:02

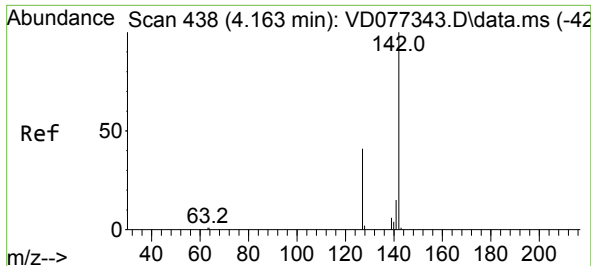
Tgt Ion: 94 Resp: 695

Ion Ratio Lower Upper

94 100

96 124.0 75.8 113.8#

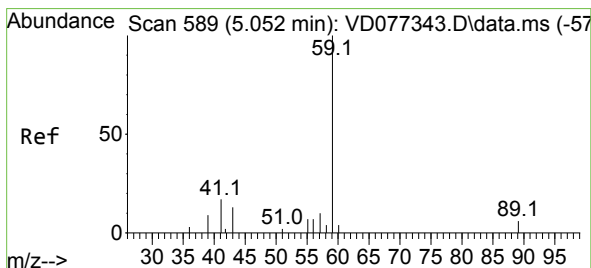
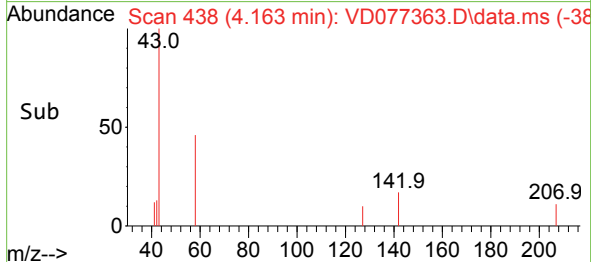
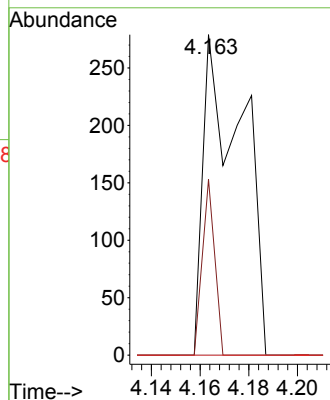
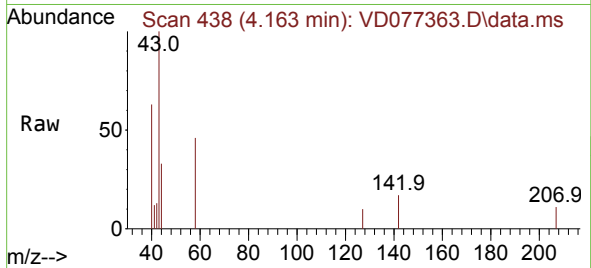




#10
Methyl Iodide
Concen: 1.130 ug/l
RT: 4.163 min Scan# 41
Delta R.T. 0.000 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

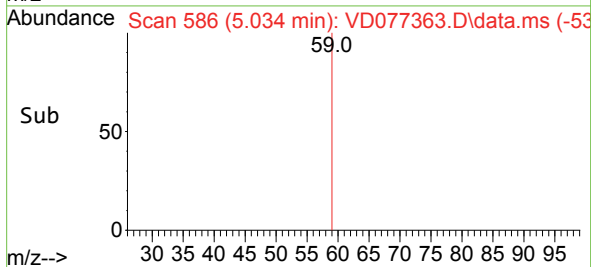
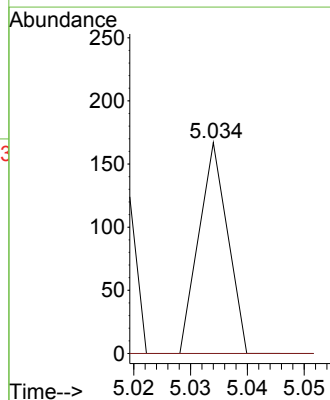
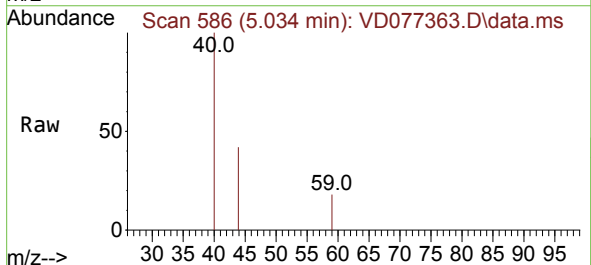
Instrument :
MSVOA_D
ClientSampleId :

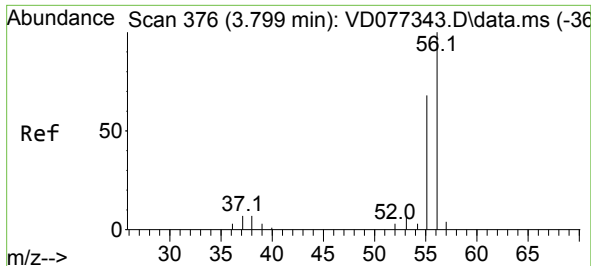
Tgt Ion:142 Resp: 307
Ion Ratio Lower Upper
142 100
127 17.6 29.4 44.0#
141 0.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 6.209 ug/l
RT: 5.034 min Scan# 586
Delta R.T. -0.018 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

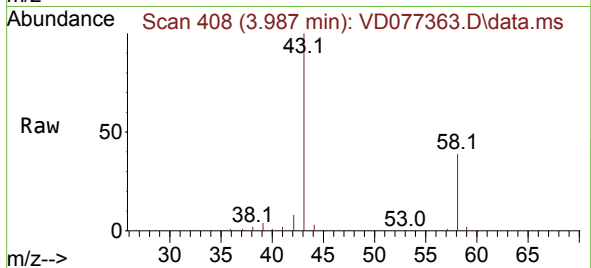
Tgt Ion: 59 Resp: 59
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



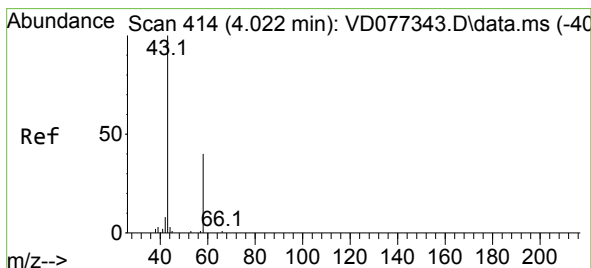
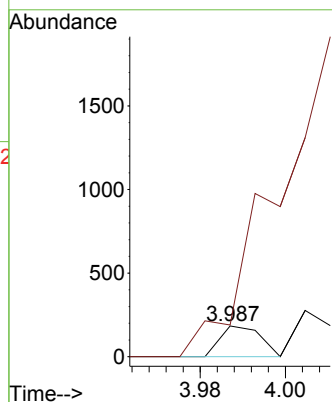
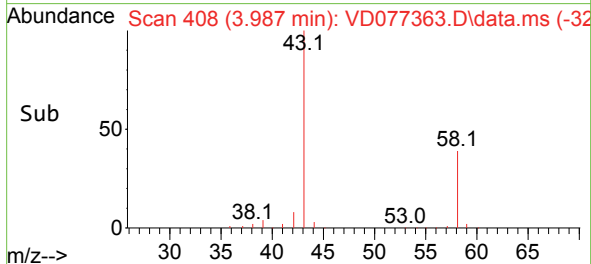


#13
Acrolein
Concen: 7.335 ug/l
RT: 3.987 min Scan# 408
Delta R.T. 0.188 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Instrument :
MSVOA_D
ClientSampleId :

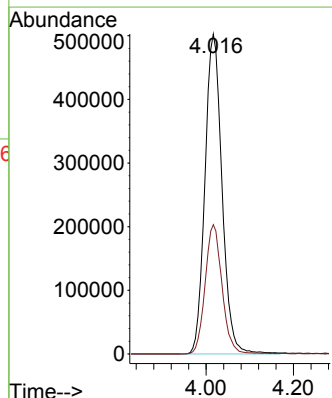
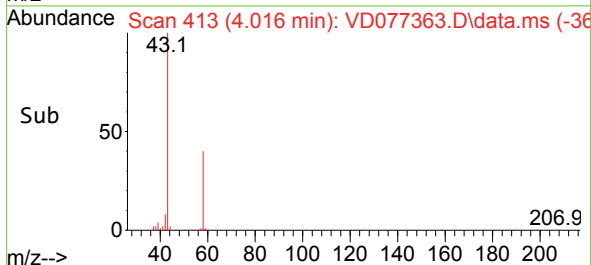
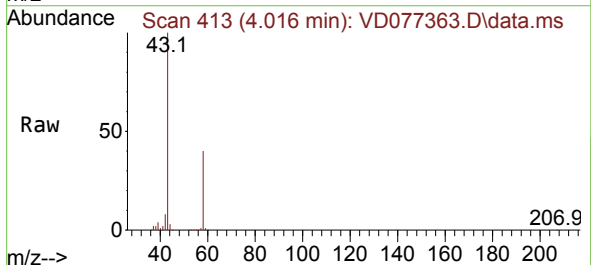


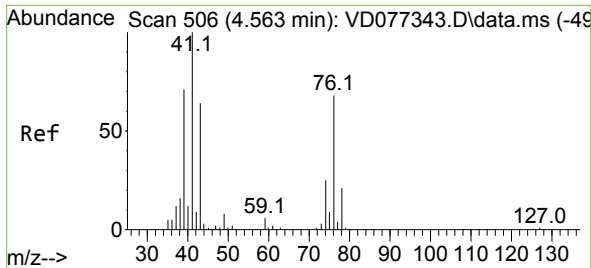
Tgt Ion: 56 Resp: 121
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#



#16
Acetone
Concen: 36932.671 ug/l
RT: 4.016 min Scan# 413
Delta R.T. -0.006 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Tgt Ion: 43 Resp: 1368116
Ion Ratio Lower Upper
43 100
58 40.4 34.7 52.1

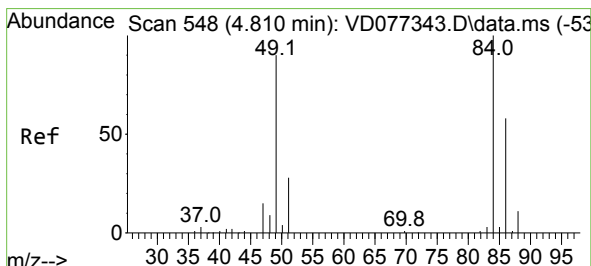
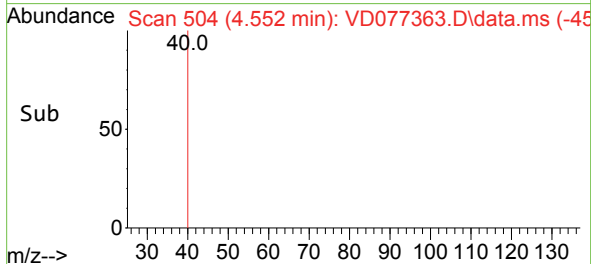
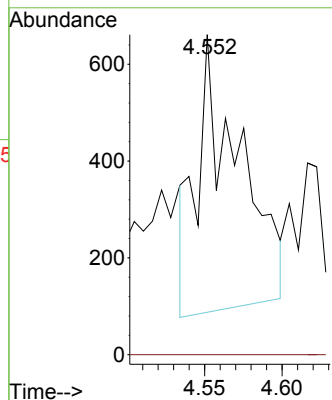
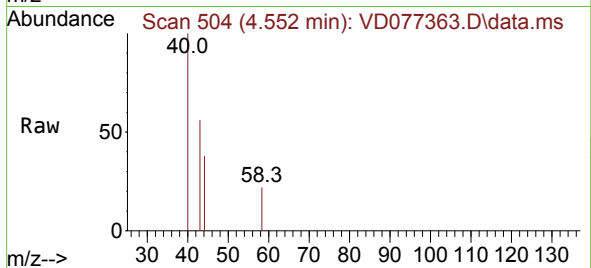




#18
Methyl Acetate
Concen: 8.346 ug/l
RT: 4.552 min Scan# 506
Delta R.T. -0.011 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

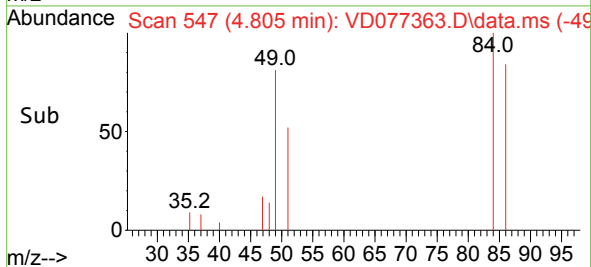
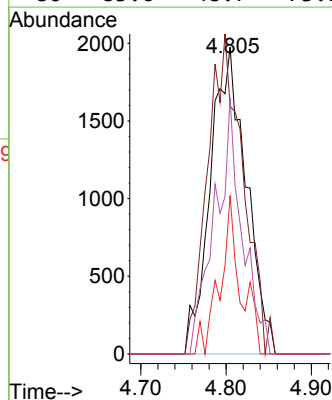
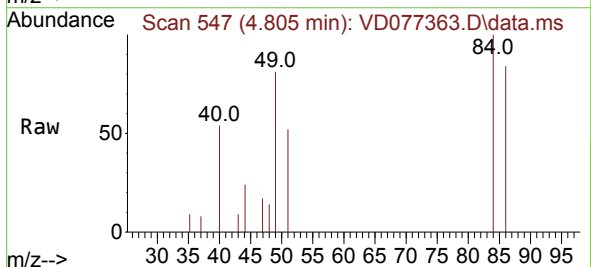
Instrument :
MSVOA_D
ClientSampleId :

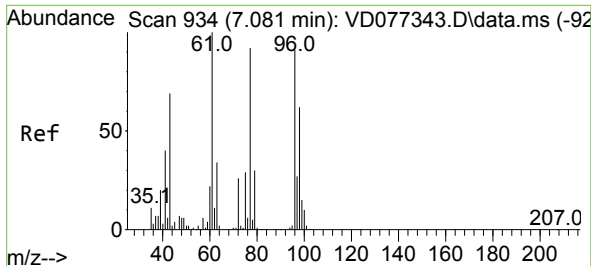
Tgt Ion: 43 Resp: 1076
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#



#20
Methylene Chloride
Concen: 23.196 ug/l
RT: 4.805 min Scan# 547
Delta R.T. -0.005 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

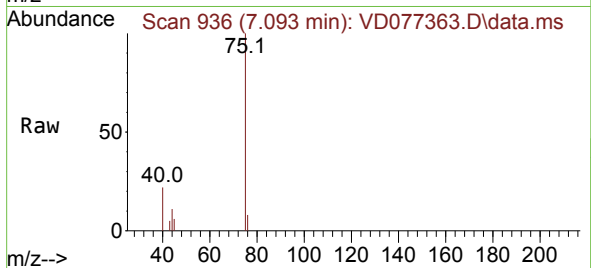
Tgt Ion: 84 Resp: 5774
Ion Ratio Lower Upper
84 100
49 80.7 71.4 107.2
51 51.7 24.5 36.7#
86 83.6 48.7 73.1#



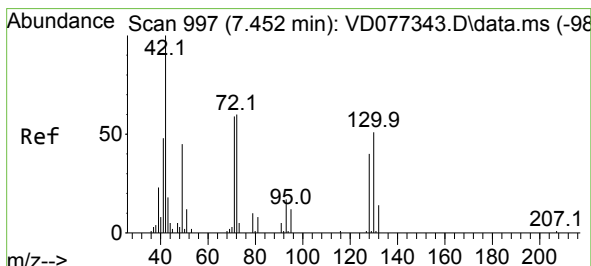
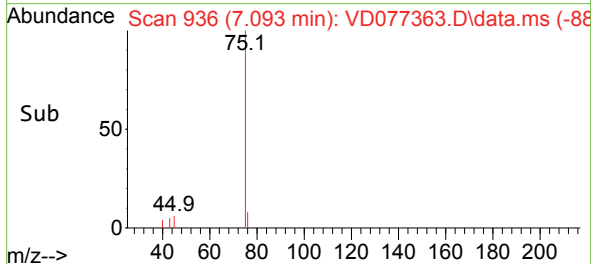
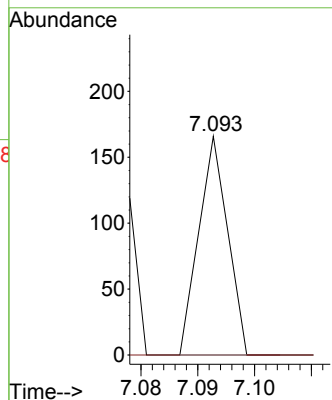


#25
2-Butanone
Concen: 1.535 ug/l
RT: 7.093 min Scan# 91
Delta R.T. 0.012 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Instrument :
MSVOA_D
ClientSampleId :

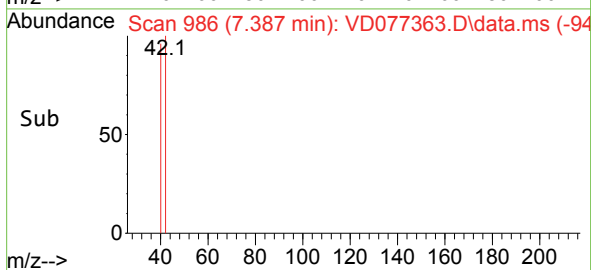
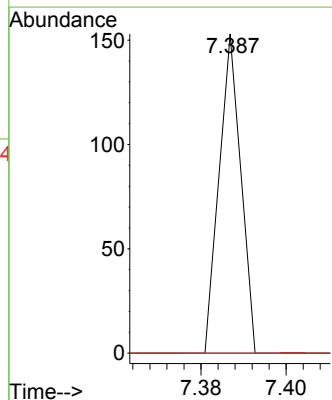
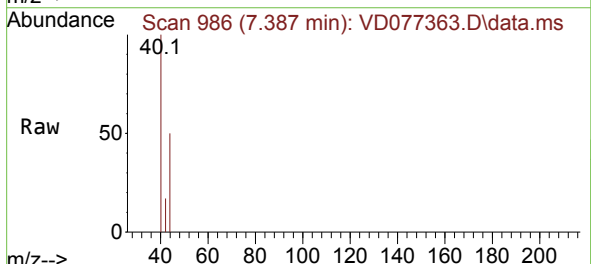


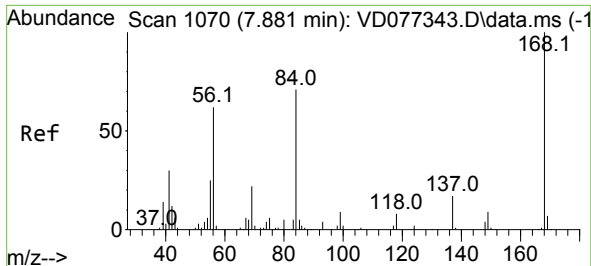
Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#29
Tetrahydrofuran
Concen: 2.436 ug/l
RT: 7.387 min Scan# 986
Delta R.T. -0.065 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

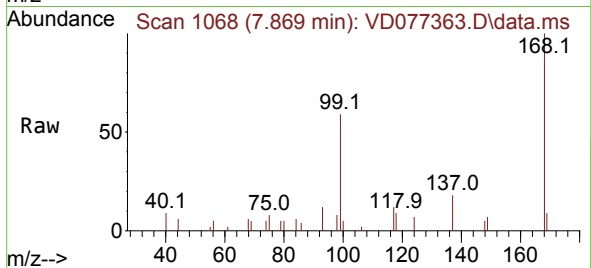
Tgt Ion: 42 Resp: 54
Ion Ratio Lower Upper
42 100
72 0.0 46.5 69.7#
71 0.0 44.5 66.7#



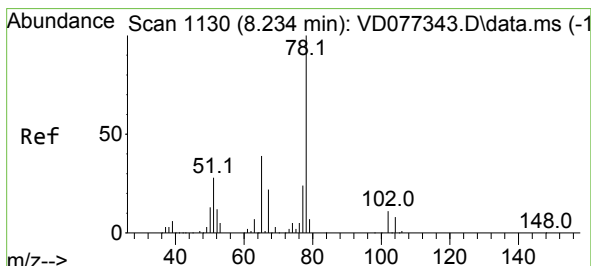
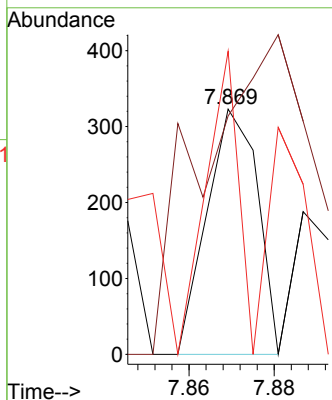
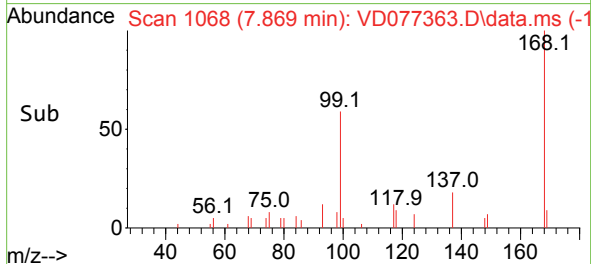


#31
Cyclohexane
Concen: 1.012 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.012 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Instrument :
MSVOA_D
ClientSampleId :

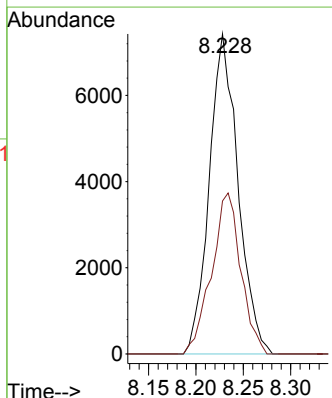
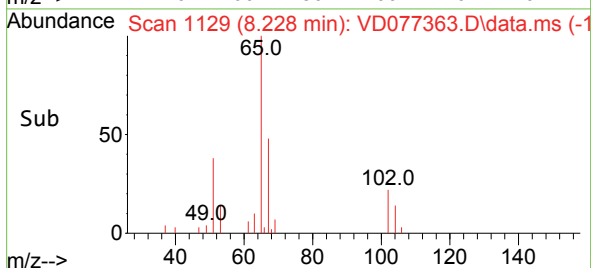
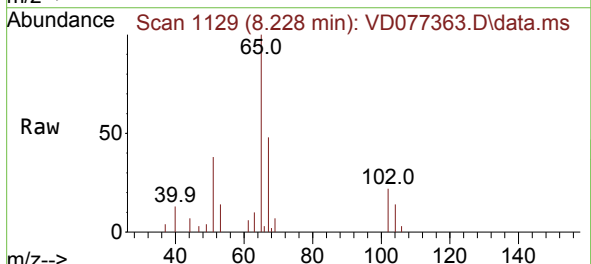


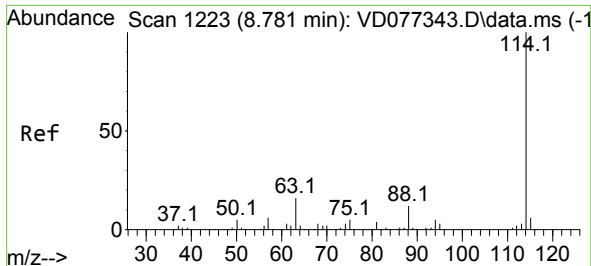
Tgt Ion: 56 Resp: 266
Ion Ratio Lower Upper
56 100
69 3.1 28.6 43.0#
84 123.5 84.8 127.2



#33
1,2-Dichloroethane-d4
Concen: 92.733 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.006 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Tgt Ion: 65 Resp: 15665
Ion Ratio Lower Upper
65 100
67 51.3 0.0 115.0

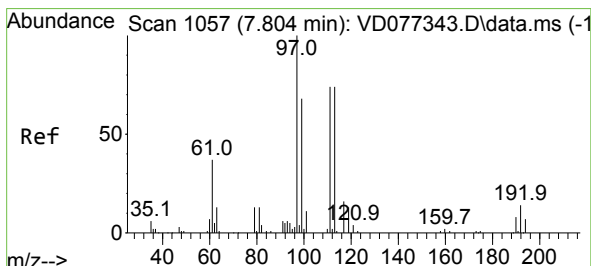
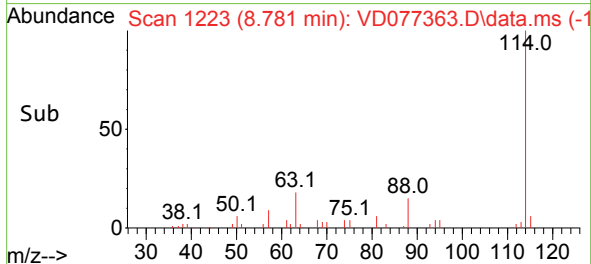
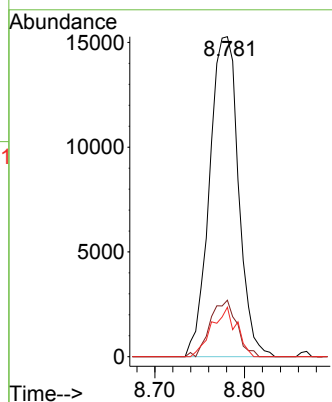
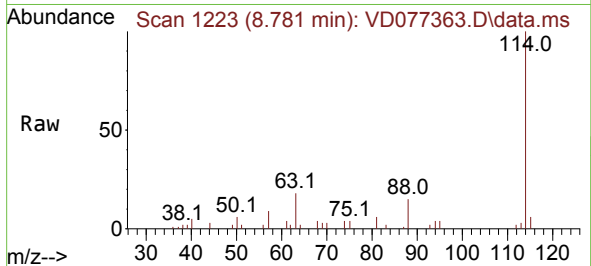




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.781 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

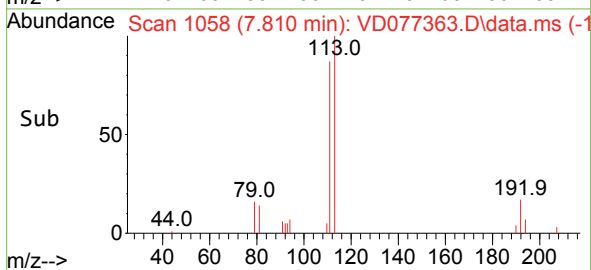
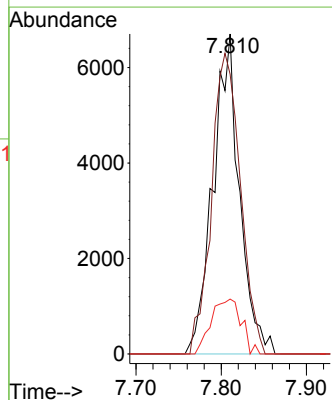
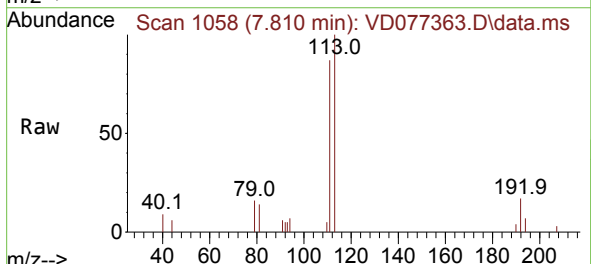
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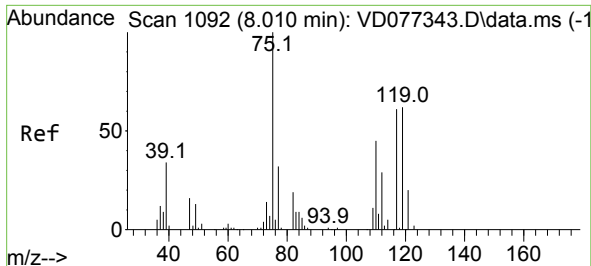
Tgt Ion:114 Resp: 34279
Ion Ratio Lower Upper
114 100
63 17.7 0.0 33.4
88 15.5 0.0 26.2



#35
Dibromofluoromethane
Concen: 60.023 ug/l
RT: 7.810 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Tgt Ion:113 Resp: 14455
Ion Ratio Lower Upper
113 100
111 102.8 84.7 127.1
192 19.6 16.8 25.2

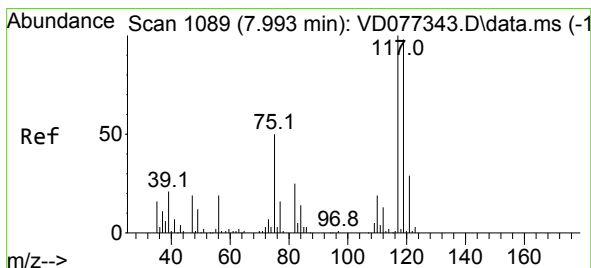
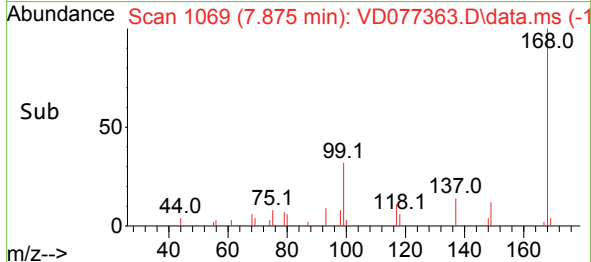
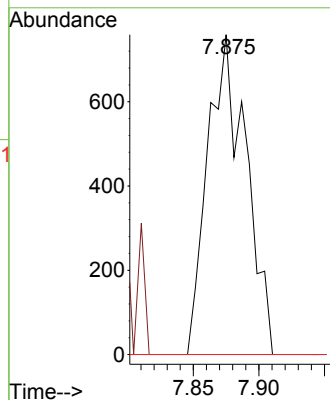
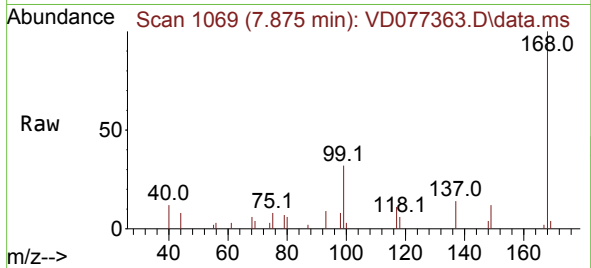




#36
1,1-Dichloropropene
Concen: 4.867 ug/l
RT: 7.875 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

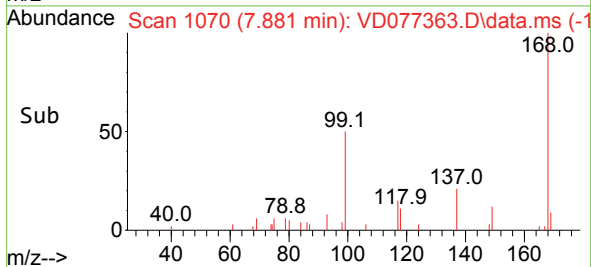
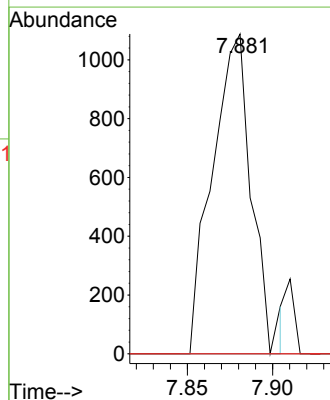
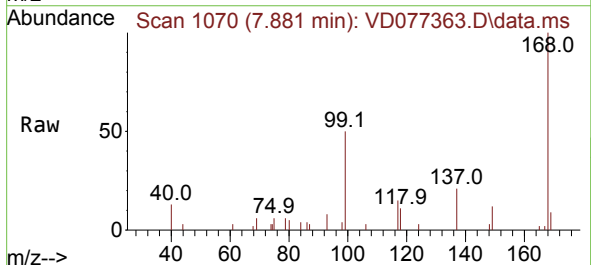
Instrument :
MSVOA_D
ClientSampleId :

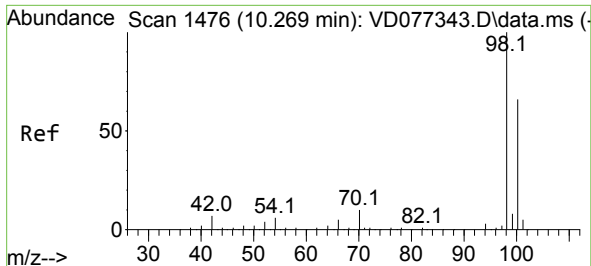
Tgt Ion: 75 Resp: 1540
Ion Ratio Lower Upper
75 100
110 0.0 19.9 59.6#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 5.003 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. -0.112 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Tgt Ion: 117 Resp: 1761
Ion Ratio Lower Upper
117 100
119 0.0 78.0 117.0#
121 0.0 24.2 36.2#

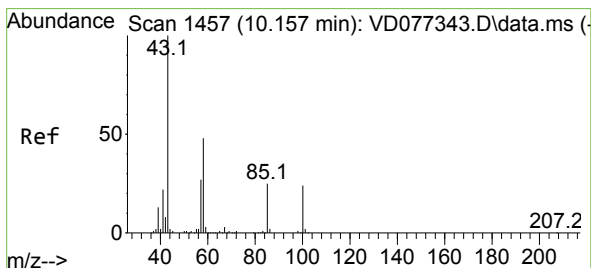
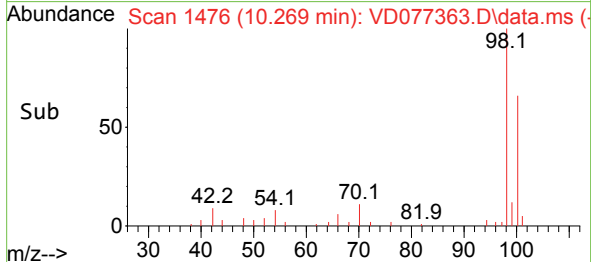
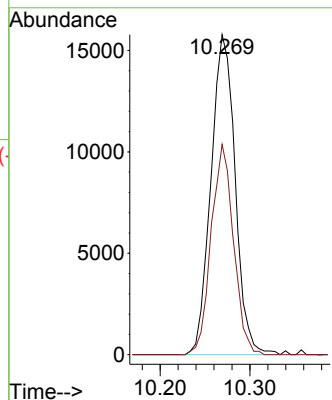
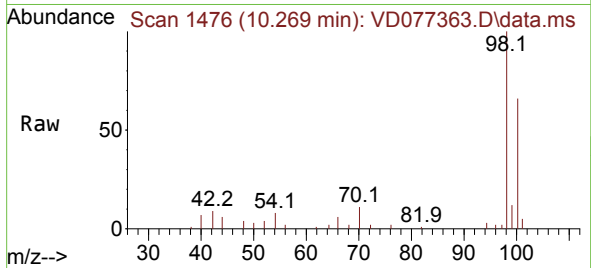




#50
Toluene-d8
Concen: 34.254 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

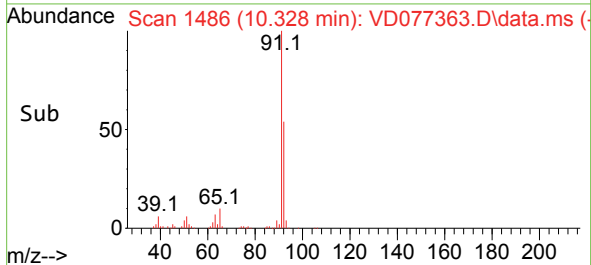
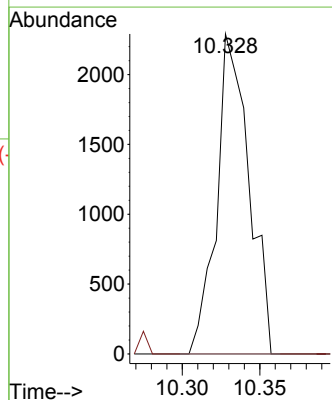
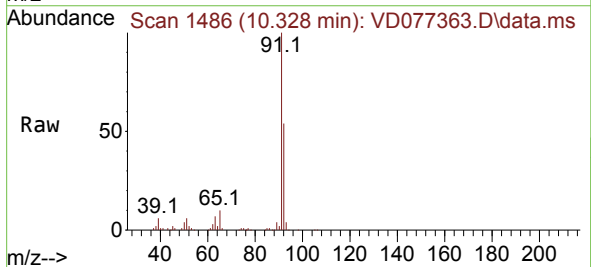
Instrument :
MSVOA_D
ClientSampleId :

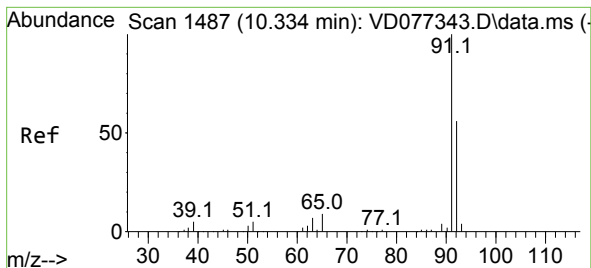
Tgt Ion: 98 Resp: 29543
Ion Ratio Lower Upper
98 100
100 60.8 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 36.923 ug/l
RT: 10.328 min Scan# 1486
Delta R.T. 0.171 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Tgt Ion: 43 Resp: 3312
Ion Ratio Lower Upper
43 100
58 0.0 38.9 58.3#





#52

Toluene

Concen: 551.429 ug/l

RT: 10.334 min Scan# 1487

Delta R.T. -0.000 min

Lab File: VD077363.D

Acq: 20 Oct 2023 14:02

Instrument :

MSVOA_D

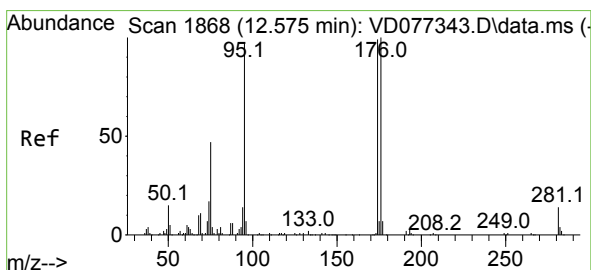
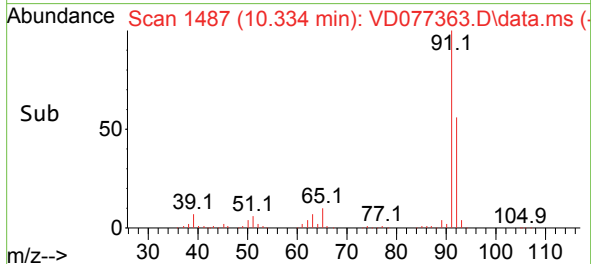
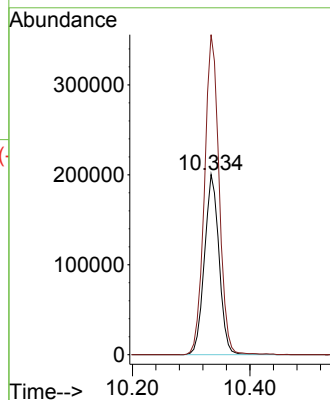
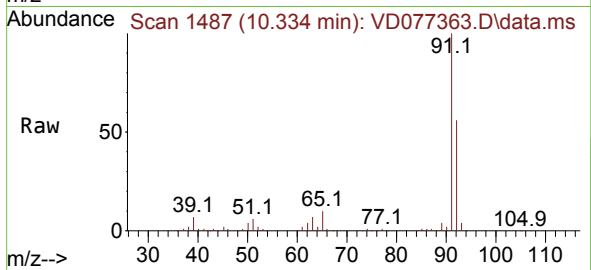
ClientSampleId :

Tgt Ion: 92 Resp: 345744

Ion Ratio Lower Upper

92 100

91 178.4 143.0 214.4



#62

4-Bromofluorobenzene

Concen: 34.604 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.000 min

Lab File: VD077363.D

Acq: 20 Oct 2023 14:02

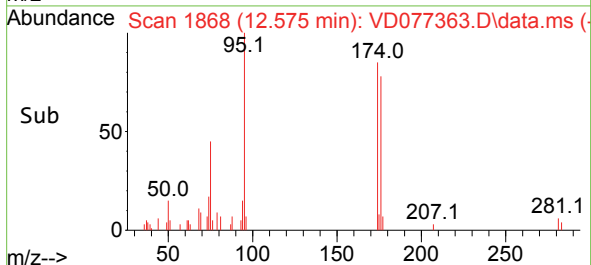
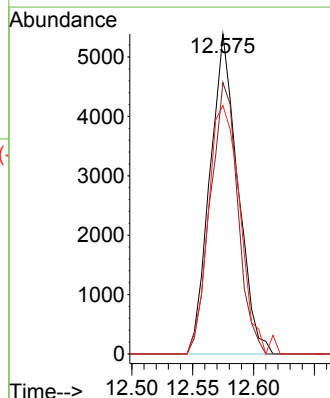
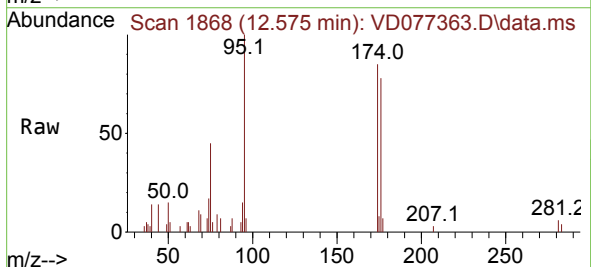
Tgt Ion: 95 Resp: 8591

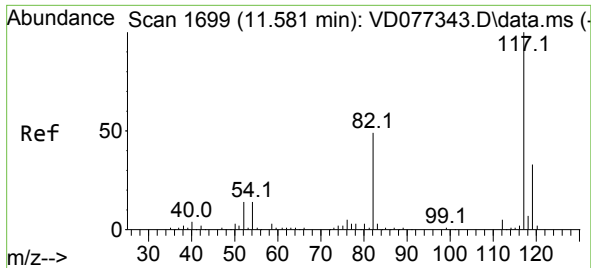
Ion Ratio Lower Upper

95 100

174 83.3 0.0 201.8

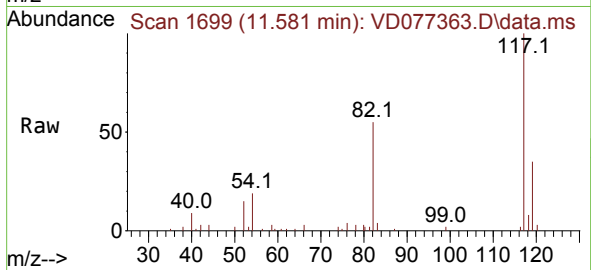
176 88.6 0.0 191.8



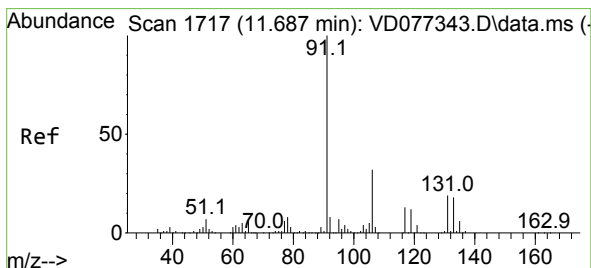
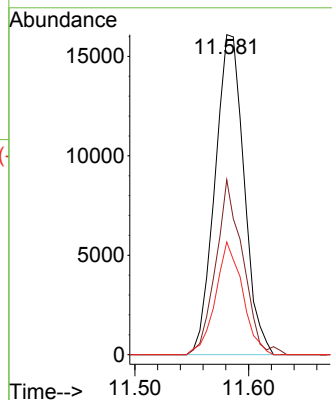
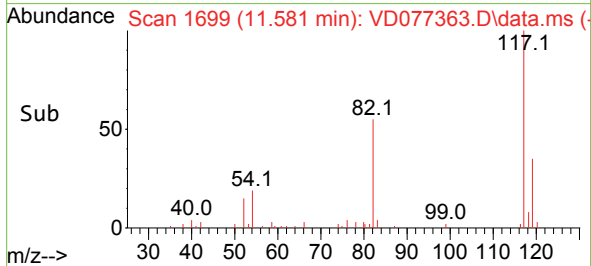


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Instrument :
MSVOA_D
ClientSampleId :

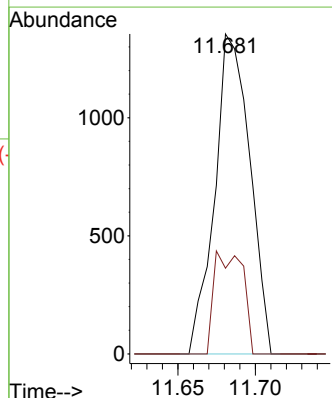
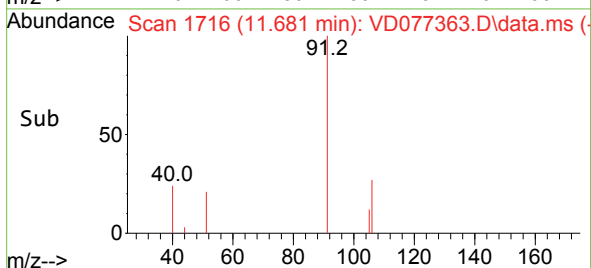
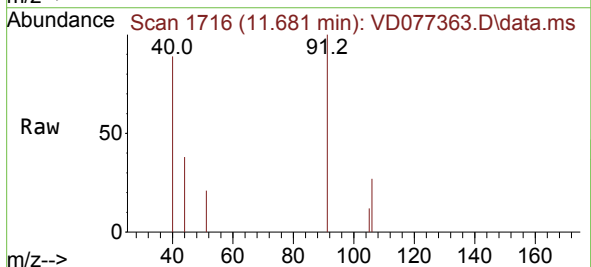


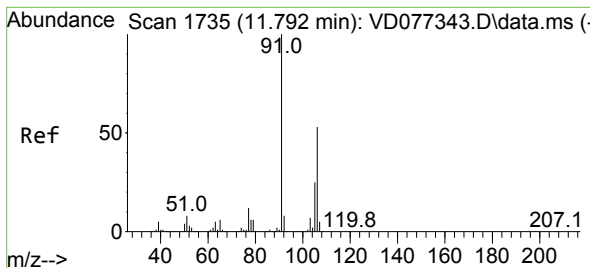
Tgt Ion:117 Resp: 28607
Ion Ratio Lower Upper
117 100
82 54.7 38.3 57.5
119 35.2 25.0 37.4



#67
Ethyl Benzene
Concen: 2.067 ug/l
RT: 11.681 min Scan# 1716
Delta R.T. -0.006 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Tgt Ion: 91 Resp: 2137
Ion Ratio Lower Upper
91 100
106 26.8 26.5 39.7

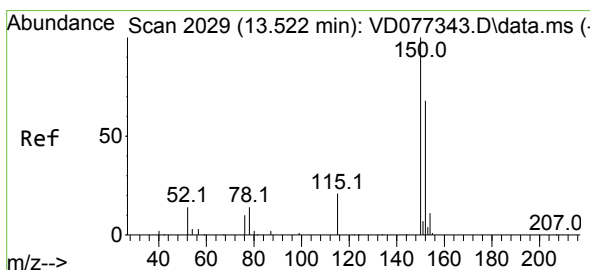
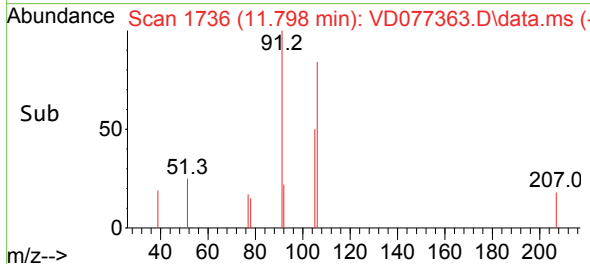
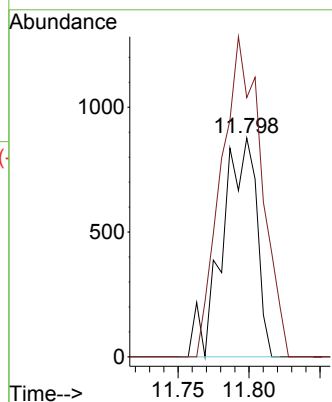
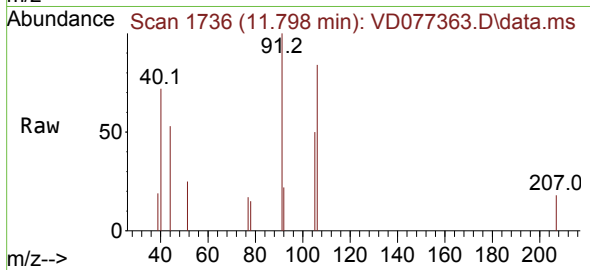




#68
m/p-Xylenes
Concen: 3.494 ug/l
RT: 11.798 min Scan# 1736
Delta R.T. 0.006 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

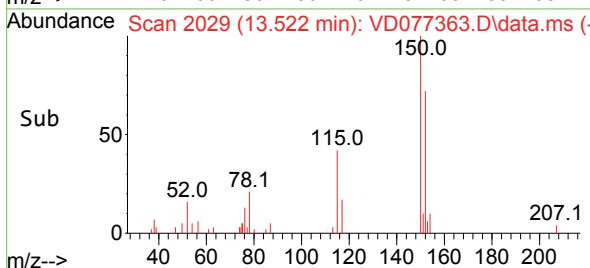
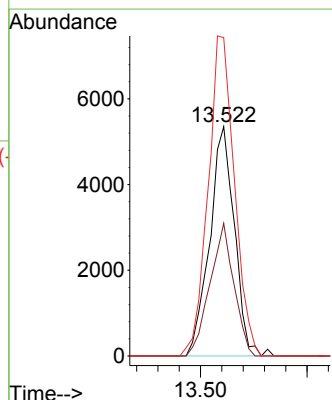
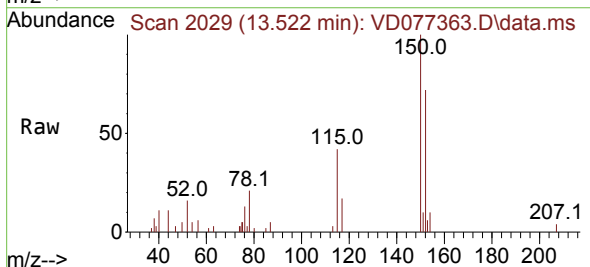
Instrument :
MSVOA_D
ClientSampleId :

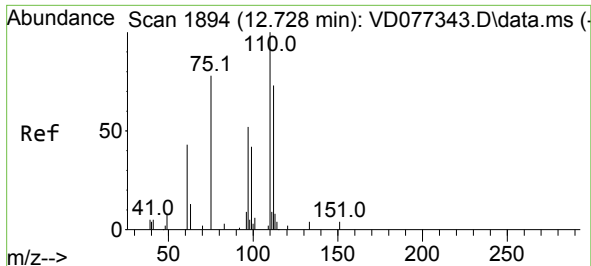
Tgt Ion:106 Resp: 1483
Ion Ratio Lower Upper
106 100
91 169.8 147.0 220.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.522 min Scan# 2029
Delta R.T. -0.000 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Tgt Ion:152 Resp: 8652
Ion Ratio Lower Upper
152 100
115 55.9 27.1 81.3
150 148.3 0.0 353.6

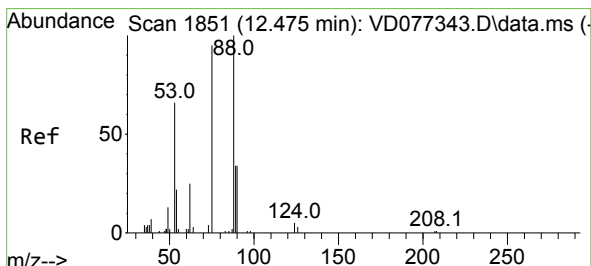
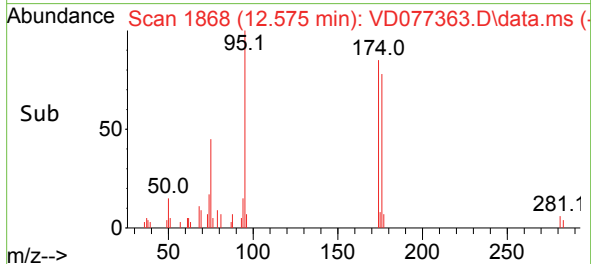
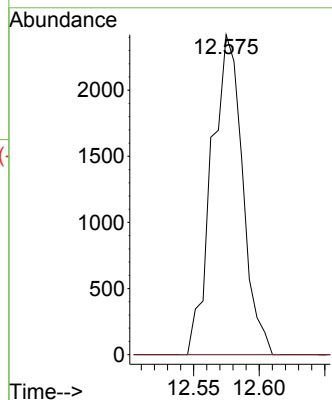
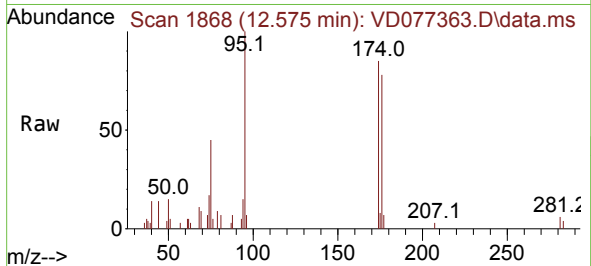




#76
1,2,3-Trichloropropane
Concen: 34.663 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.153 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

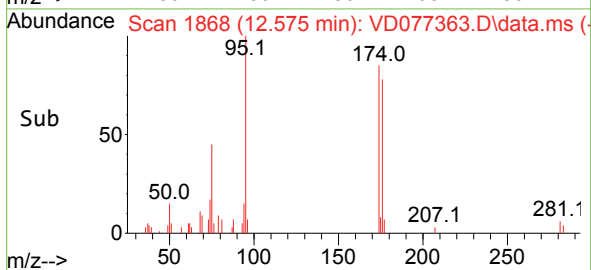
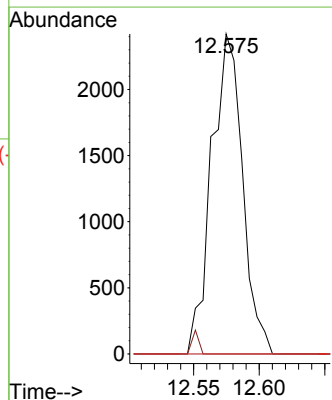
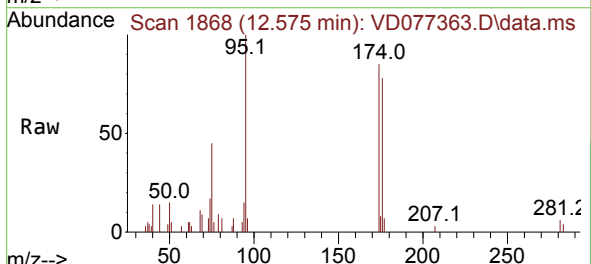
Instrument :
MSVOA_D
ClientSampleId :

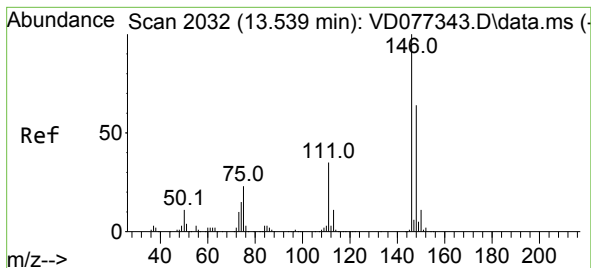
Tgt Ion: 75 Resp: 3967
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 122.859 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.100 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Tgt Ion: 75 Resp: 3967
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#





#88

1,4-Dichlorobenzene

Concen: 1.101 ug/l

RT: 13.539 min Scan# 2032

Delta R.T. 0.000 min

Lab File: VD077363.D

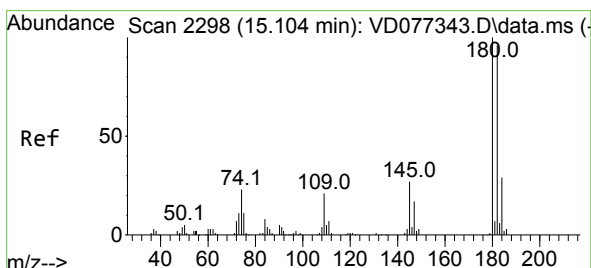
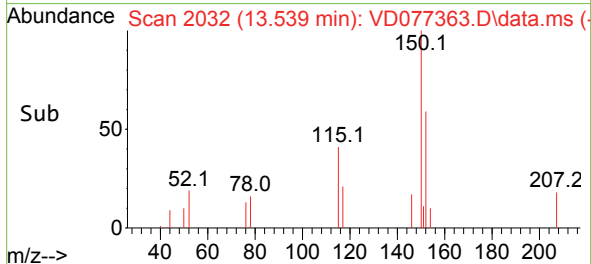
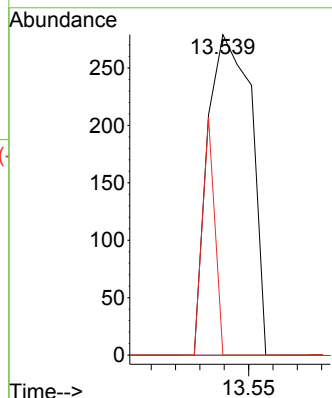
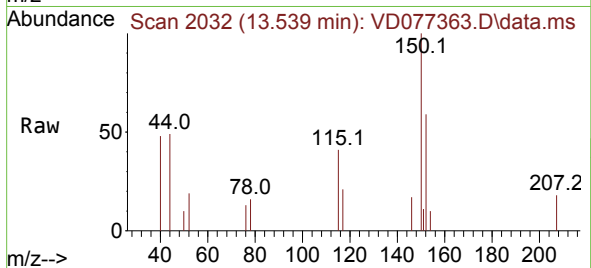
Acq: 20 Oct 2023 14:02

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:146	Resp:	345
Ion Ratio	Lower	Upper
146	100	
111	0.0	17.4 52.3#
148	21.2	31.7 95.1#



#93

1,2,4-Trichlorobenzene

Concen: 2.091 ug/l

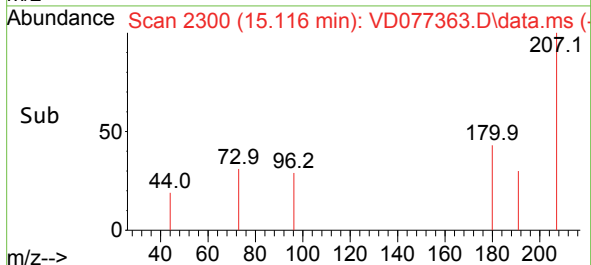
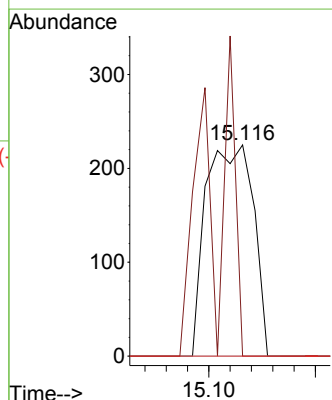
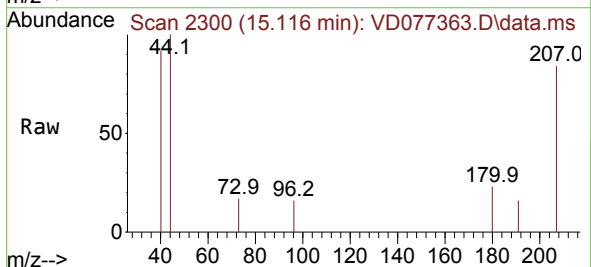
RT: 15.116 min Scan# 2300

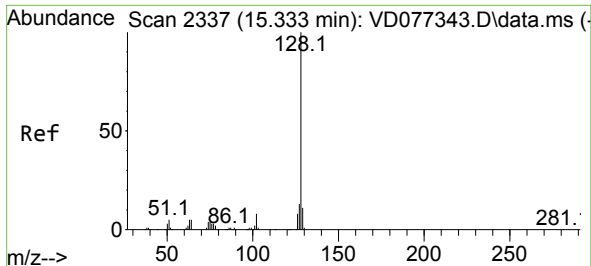
Delta R.T. 0.012 min

Lab File: VD077363.D

Acq: 20 Oct 2023 14:02

Tgt Ion:180	Resp:	348
Ion Ratio	Lower	Upper
180	100	
182	46.8	48.5 145.6#
145	0.0	14.2 42.6#

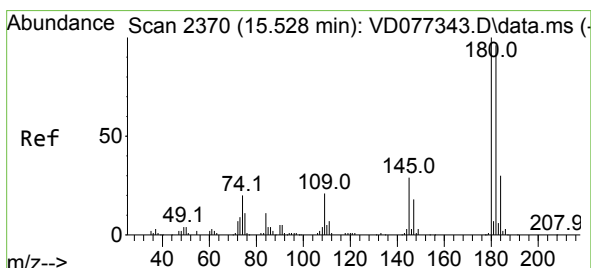
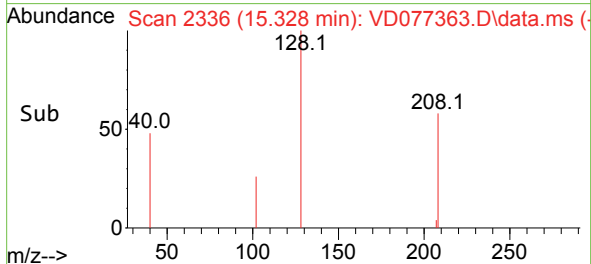
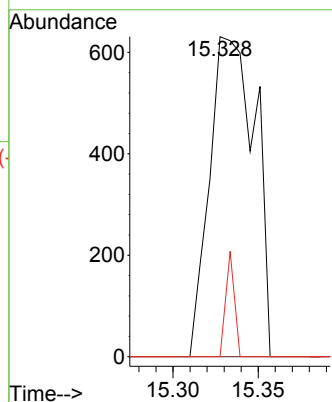
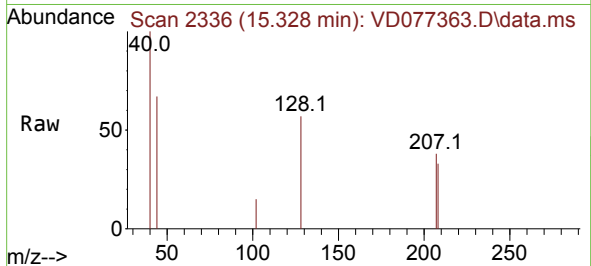




#95
Naphthalene
Concen: 4.171 ug/l
RT: 15.328 min Scan# 21
Delta R.T. -0.006 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 1172
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 3.081 ug/l
RT: 15.522 min Scan# 2369
Delta R.T. -0.006 min
Lab File: VD077363.D
Acq: 20 Oct 2023 14:02

Tgt Ion:180 Resp: 445
Ion Ratio Lower Upper
180 100
182 58.2 47.3 141.9
145 12.6 15.1 45.3#

