

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD102423\
 Data File : VD077395.D
 Acq On : 24 Oct 2023 15:27
 Operator : JC/SY
 Sample : 05025-01
 Misc : 5.06G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 25 04:05:45 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)

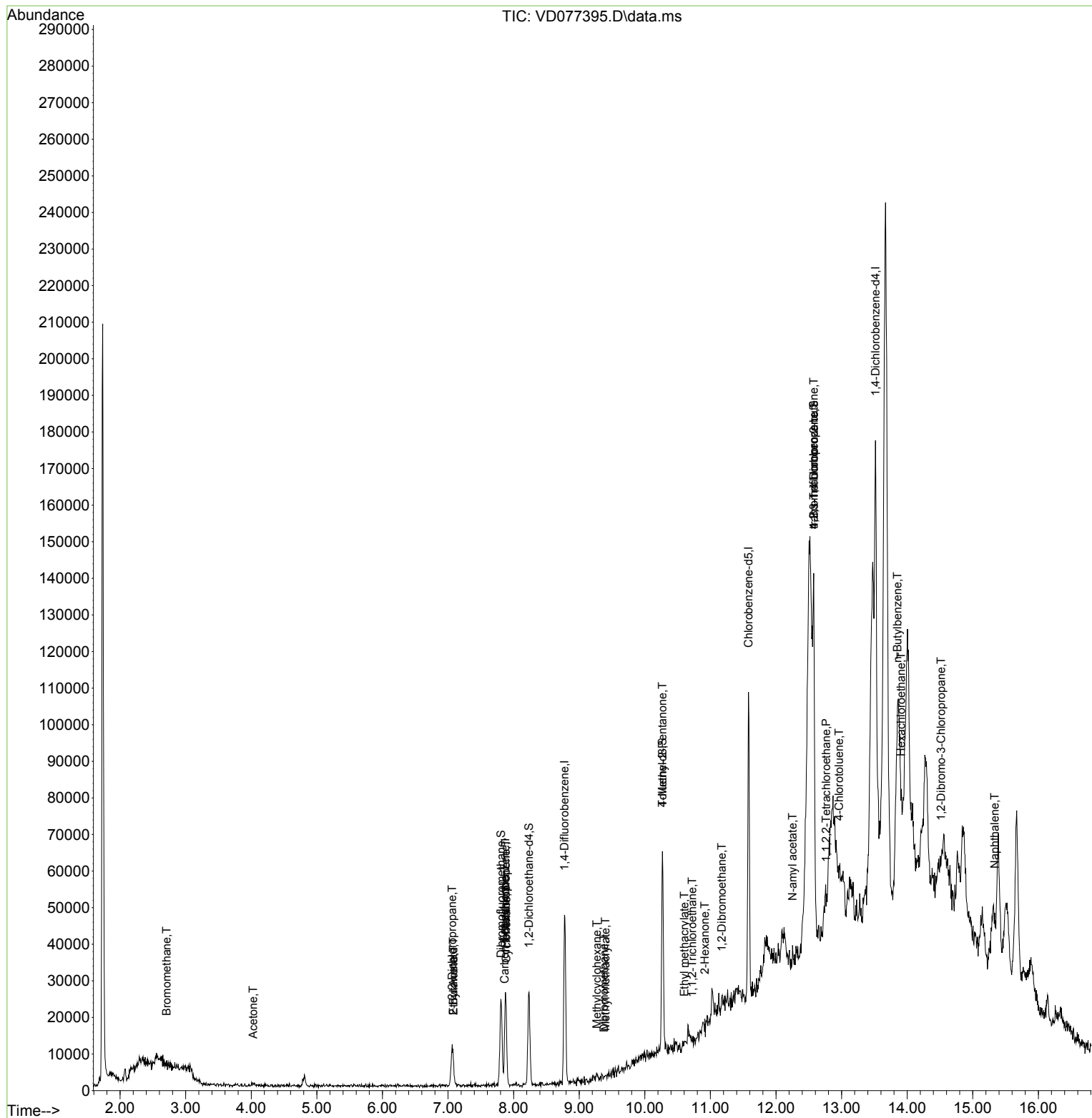
Internal Standards						
1) Pentafluorobenzene	7.875	168	20661	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	44906	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	50327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	22273	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	19209	104.119	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 208.240%#			
35) Dibromofluoromethane	7.811	113	17663	55.987	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 111.980%			
50) Toluene-d8	10.269	98	39590	35.040	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 70.080%			
62) 4-Bromofluorobenzene	12.575	95	21542	66.235	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 132.460%			
Target Compounds						Qvalue
5) Bromomethane	2.711	94	656	2.209	ug/l	85
16) Acetone	4.028	43	846	20.911	ug/l #	32
25) 2-Butanone	7.081	43	174	4.146	ug/l #	37
26) 2,2-Dichloropropane	7.063	77	555	1.652	ug/l #	49
31) Cyclohexane	7.887	56	531	1.850	ug/l #	62
36) 1,1-Dichloropropene	7.881	75	1773	4.277	ug/l #	39
37) Ethyl Acetate	7.081	43	174	1.336	ug/l #	1
38) Carbon Tetrachloride	7.863	117	1936	4.198	ug/l #	11
39) Methylcyclohexane	9.269	83	766	1.521	ug/l #	51
46) Dibromomethane	9.375	93	274	1.511	ug/l #	1
48) Methyl methacrylate	9.399	41	767	7.233	ug/l #	50
51) 4-Methyl-2-Pentanone	10.269	43	286	2.434	ug/l	97
55) 1,1,2-Trichloroethane	10.722	97	619	2.465	ug/l #	44
56) Ethyl methacrylate	10.604	69	343	1.429	ug/l #	1
59) 2-Hexanone	10.916	43	182	2.156	ug/l #	16
61) 1,2-Dibromoethane	11.175	107	989	4.180	ug/l #	65
74) N-amyl acetate	12.251	43	349	1.647	ug/l #	19
75) 1,1,2,2-Tetrachloroethane	12.763	83	1793	6.697	ug/l #	28
76) 1,2,3-Trichloropropane	12.575	75	7737	26.925	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	7737	93.079	ug/l #	17
82) 4-Chlorotoluene	12.963	91	1123	1.116	ug/l #	36
89) n-Butylbenzene	13.851	91	1361	1.109	ug/l	72
90) Hexachloroethane	13.904	117	366	1.285	ug/l	75
92) 1,2-Dibromo-3-Chloropr...	14.516	75	119	3.632	ug/l #	15
95) Naphthalene	15.334	128	1252	1.731	ug/l #	66

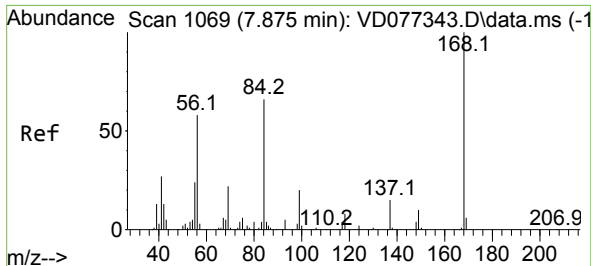
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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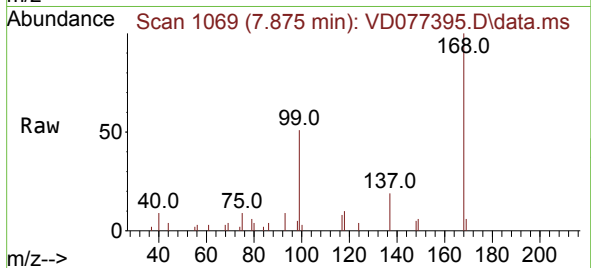
Quant Time: Oct 25 04:05:45 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D101723S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 18 03:02:43 2023
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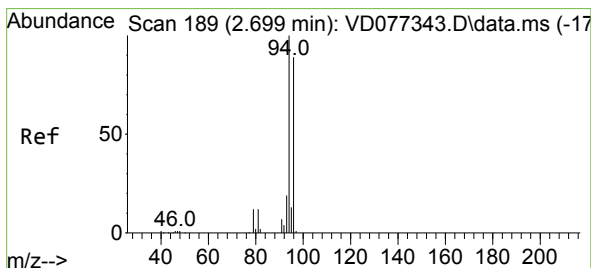
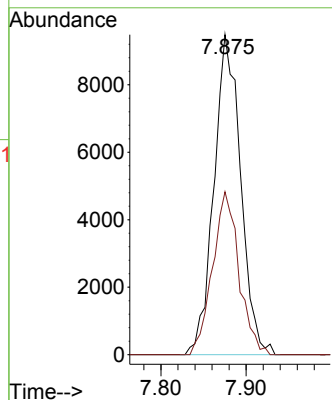
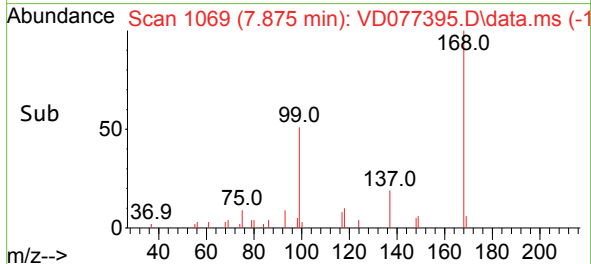


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

Instrument :
MSVOA_D
ClientSampleId :

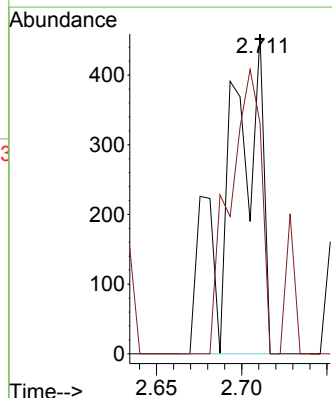
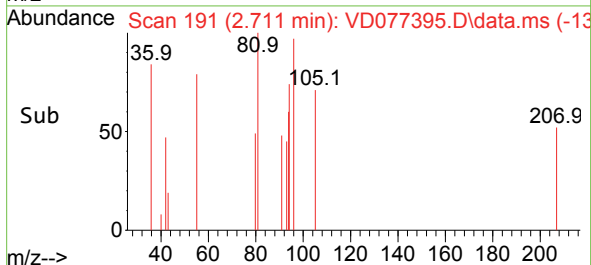
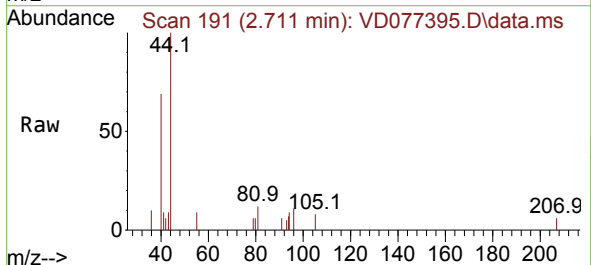


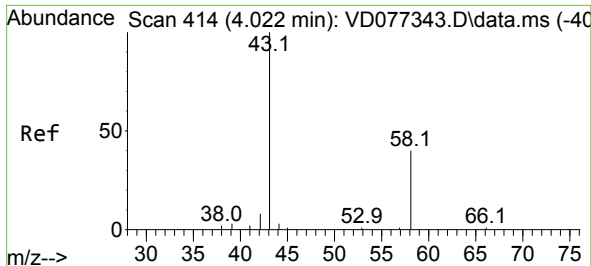
Tgt Ion:168 Resp: 20661
Ion Ratio Lower Upper
168 100
99 50.9 36.7 55.1



#5
Bromomethane
Concen: 2.209 ug/l
RT: 2.711 min Scan# 191
Delta R.T. 0.012 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

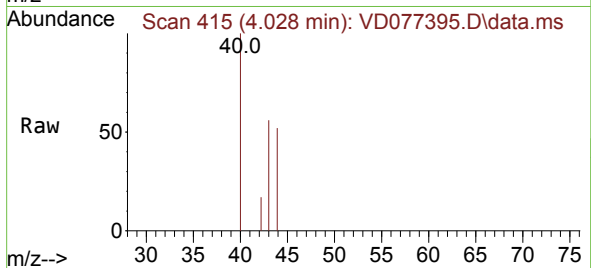
Tgt Ion: 94 Resp: 656
Ion Ratio Lower Upper
94 100
96 80.2 75.8 113.8



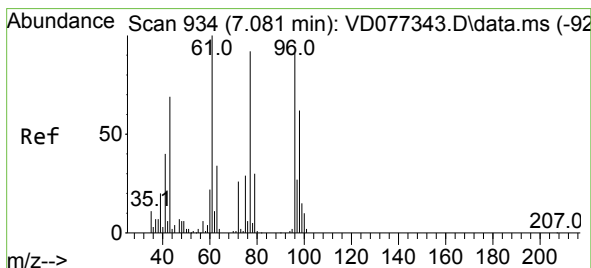
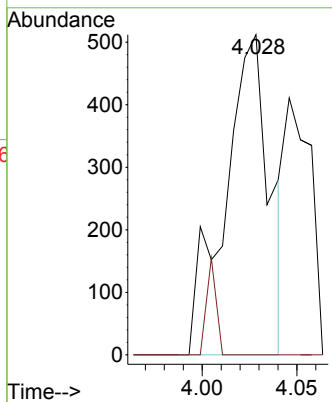
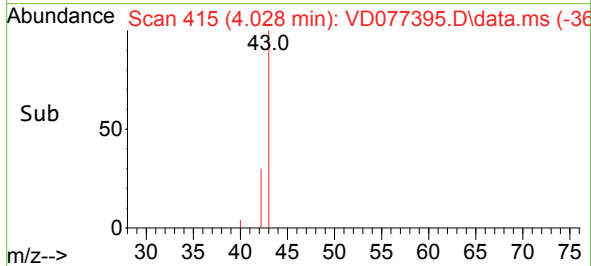


#16
Acetone
Concen: 20.911 ug/l
RT: 4.028 min Scan# 414
Delta R.T. 0.006 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

Instrument :
MSVOA_D
ClientSampleId :

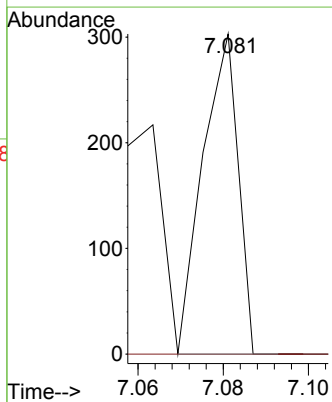
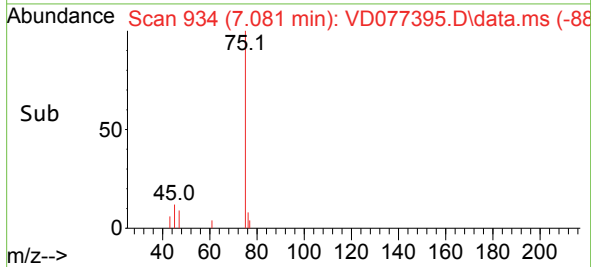
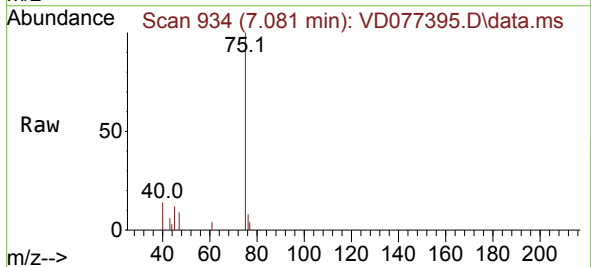


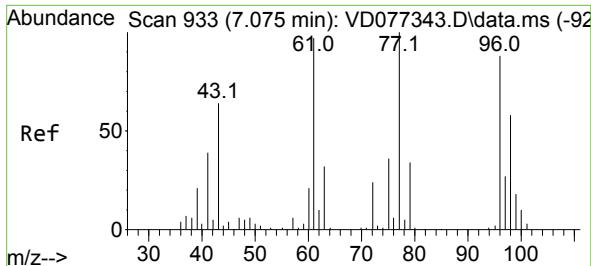
Tgt Ion: 43 Resp: 846
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#



#25
2-Butanone
Concen: 4.146 ug/l
RT: 7.081 min Scan# 934
Delta R.T. 0.000 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

Tgt Ion: 43 Resp: 174
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#

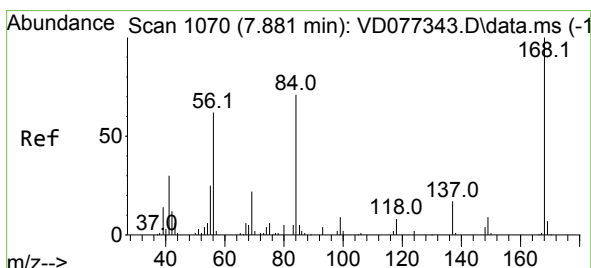
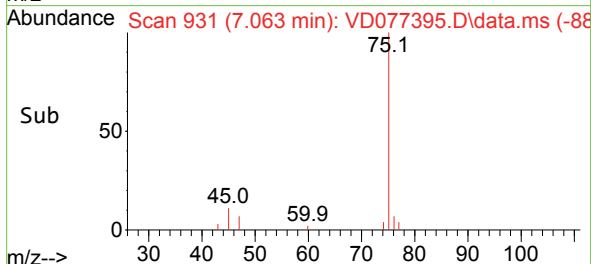
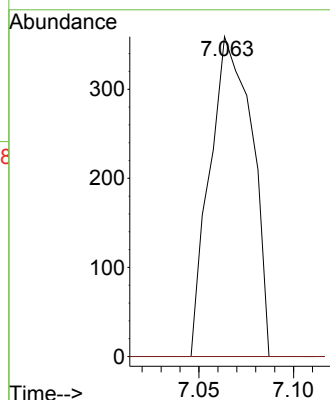
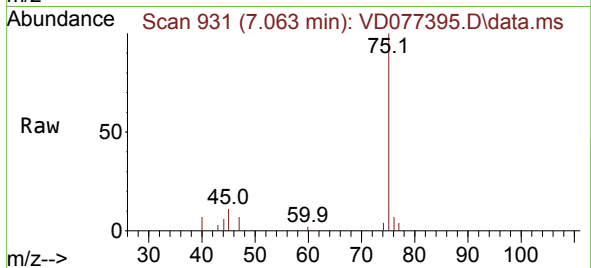




#26
2,2-Dichloropropane
Concen: 1.652 ug/l
RT: 7.063 min Scan# 91
Delta R.T. -0.012 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

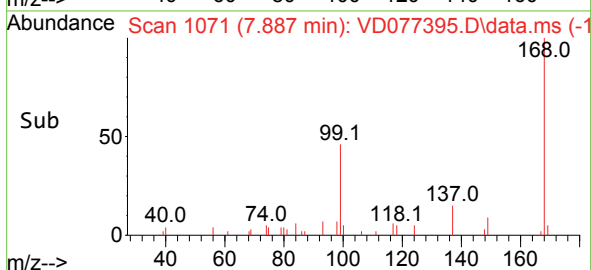
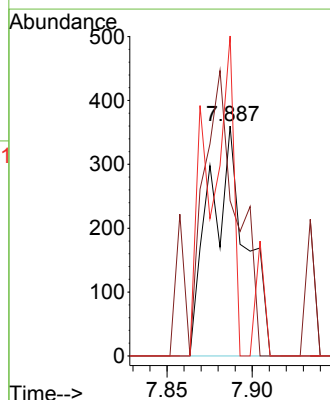
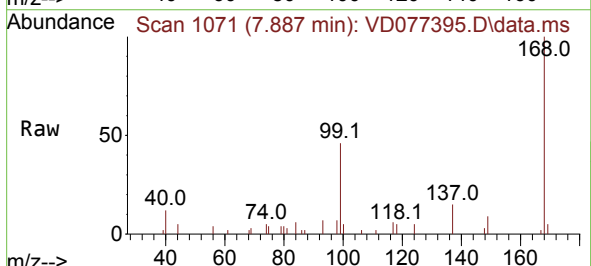
Instrument :
MSVOA_D
ClientSampleId :

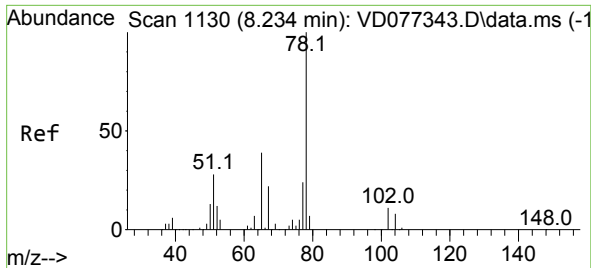
Tgt Ion: 77 Resp: 555
Ion Ratio Lower Upper
77 100
97 0.0 13.2 39.6#



#31
Cyclohexane
Concen: 1.850 ug/l
RT: 7.887 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

Tgt Ion: 56 Resp: 531
Ion Ratio Lower Upper
56 100
69 67.5 28.6 43.0#
84 139.2 84.8 127.2#





#33

1,2-Dichloroethane-d4

Concen: 104.119 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

Instrument :

MSVOA_D

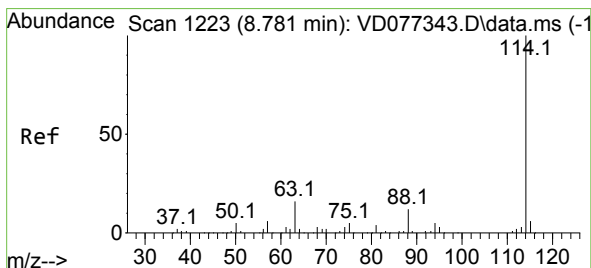
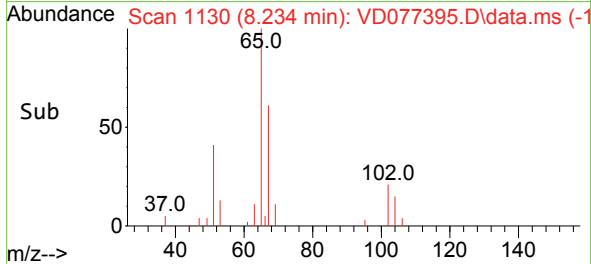
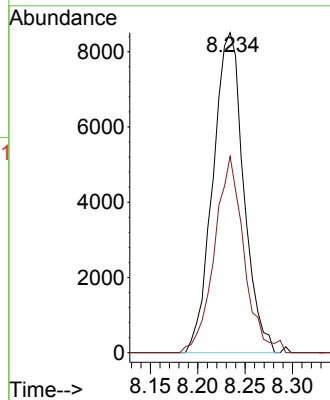
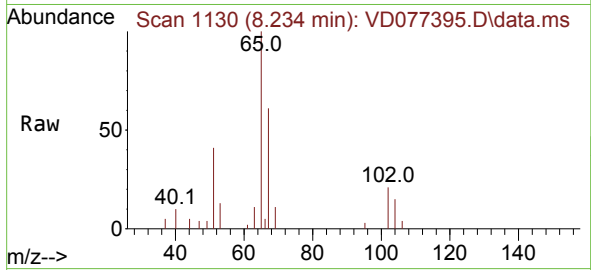
ClientSampleId :

Tgt Ion: 65 Resp: 19209

Ion Ratio Lower Upper

65 100

67 59.1 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.006 min

Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

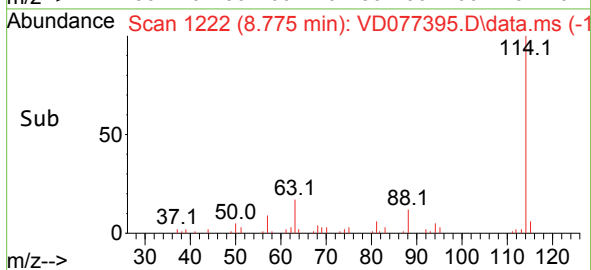
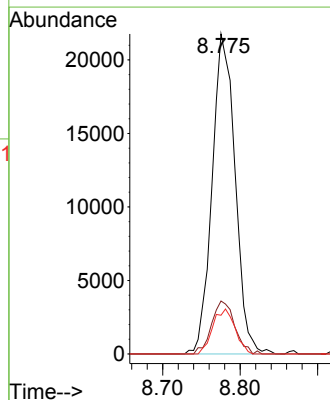
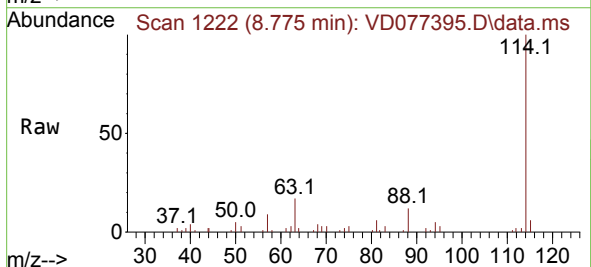
Tgt Ion: 114 Resp: 44906

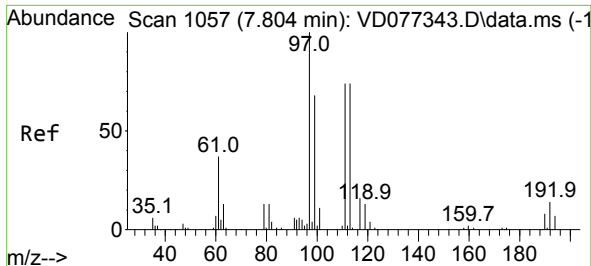
Ion Ratio Lower Upper

114 100

63 16.5 0.0 33.4

88 12.1 0.0 26.2





#35

Dibromofluoromethane

Concen: 55.987 ug/l

RT: 7.811 min Scan# 1058

Delta R.T. 0.006 min

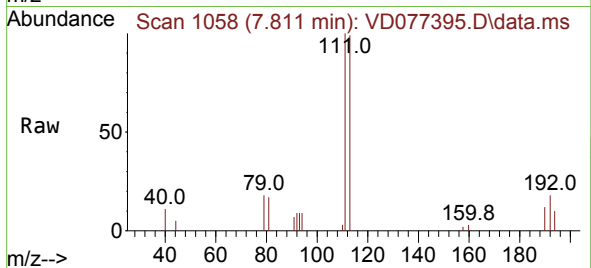
Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

Instrument :

MSVOA_D

ClientSampleId :



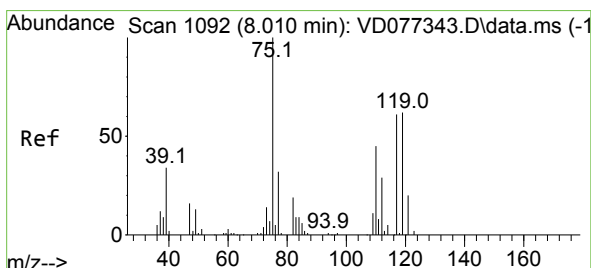
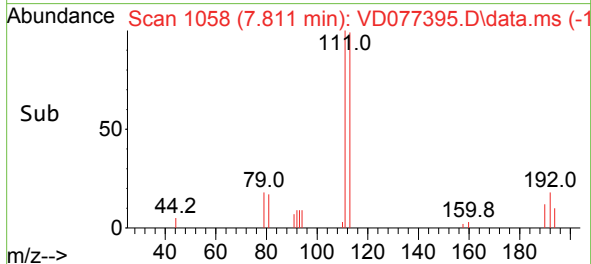
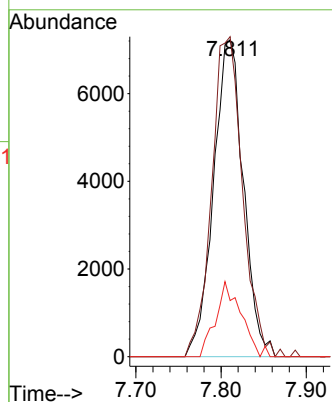
Tgt Ion:113 Resp: 17663

Ion Ratio Lower Upper

113 100

111 104.0 84.7 127.1

192 20.2 16.8 25.2



#36

1,1-Dichloropropene

Concen: 4.277 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.129 min

Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

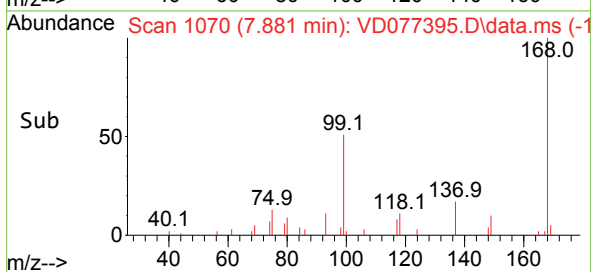
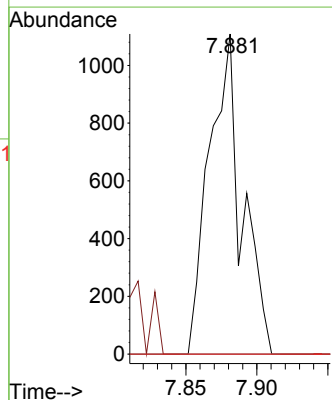
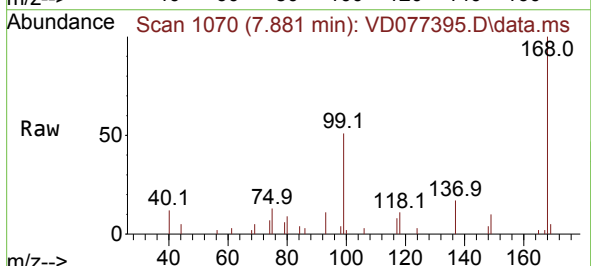
Tgt Ion: 75 Resp: 1773

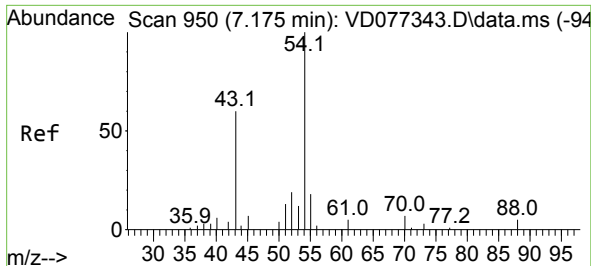
Ion Ratio Lower Upper

75 100

110 0.0 19.9 59.6#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.336 ug/l

RT: 7.081 min Scan# 91

Delta R.T. -0.094 min

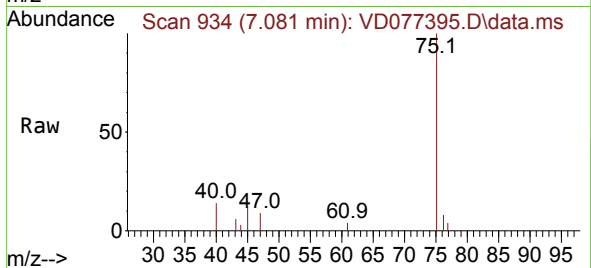
Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

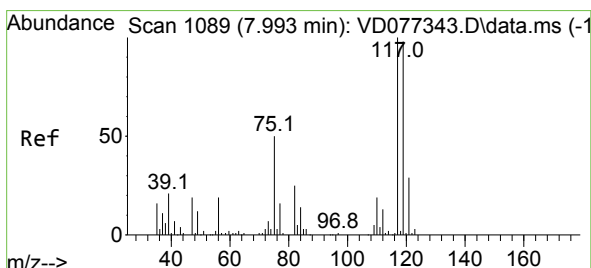
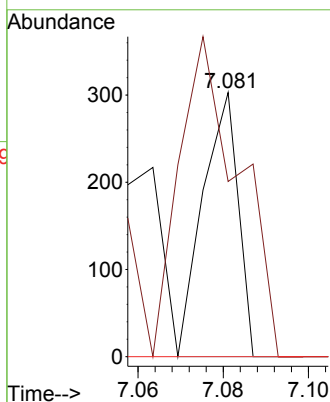
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 43	Resp: 174
Ion Ratio	Lower Upper
43	100
61	272.4 14.9 22.3#
70	0.0 10.0 15.0#



#38

Carbon Tetrachloride

Concen: 4.198 ug/l

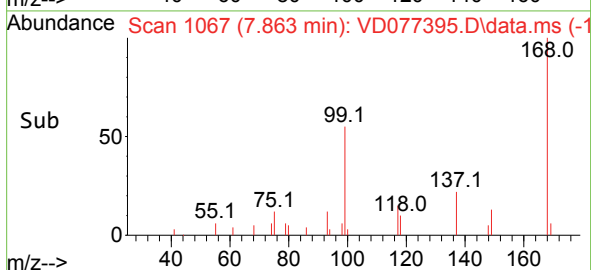
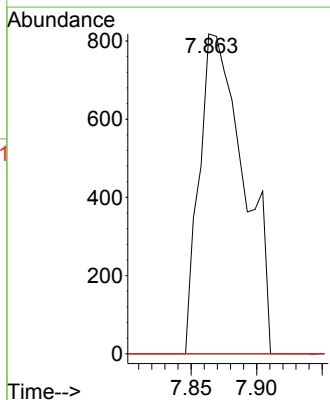
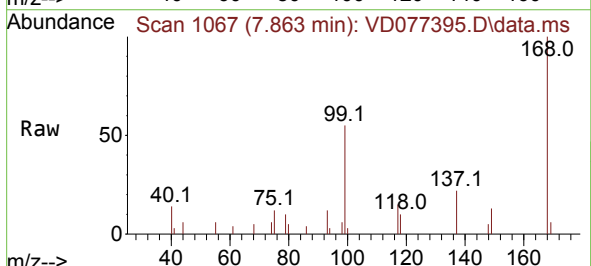
RT: 7.863 min Scan# 1067

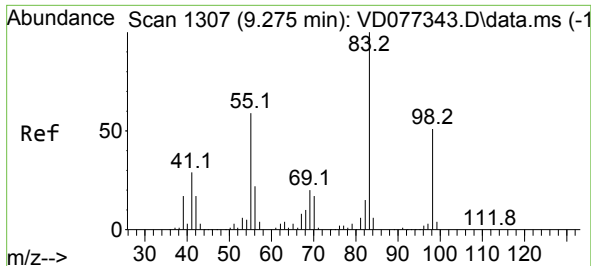
Delta R.T. -0.130 min

Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

Tgt Ion: 117	Resp: 1936
Ion Ratio	Lower Upper
117	100
119	0.0 78.0 117.0#
121	0.0 24.2 36.2#

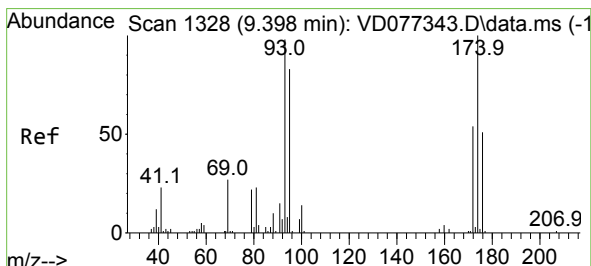
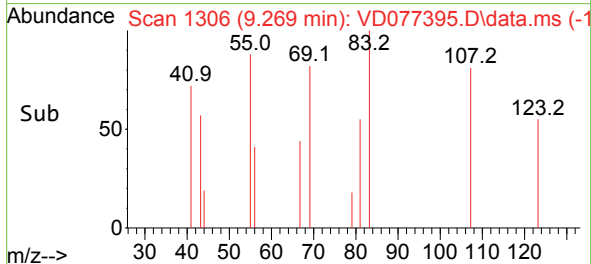
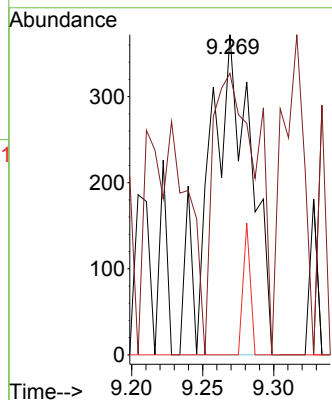
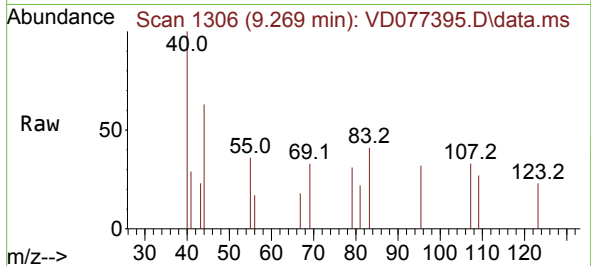




#39
Methylcyclohexane
Concen: 1.521 ug/l
RT: 9.269 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

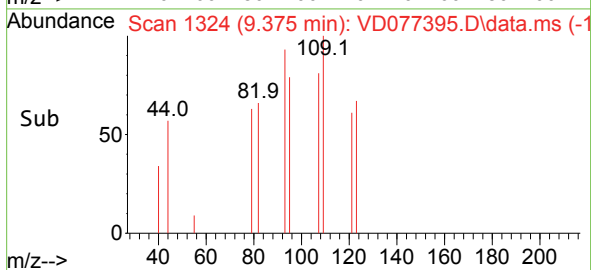
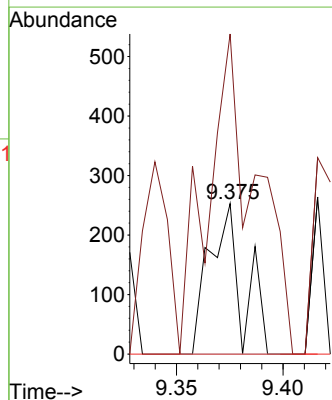
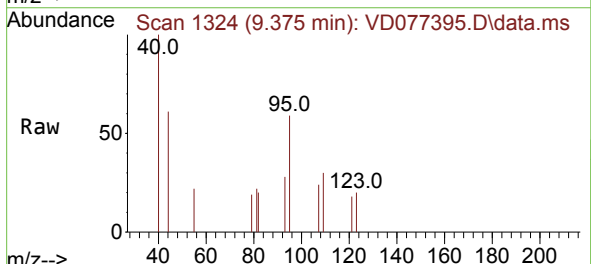
Instrument :
MSVOA_D
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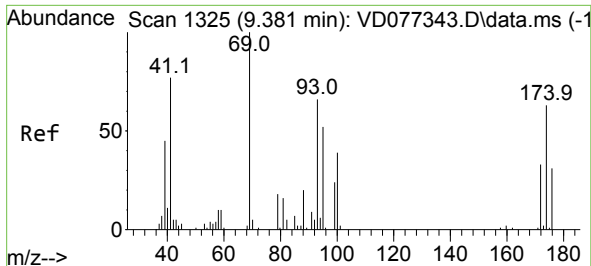
Tgt Ion: 83 Resp: 766
Ion Ratio Lower Upper
83 100
55 37.4 49.4 74.0#
98 0.0 38.4 57.6#



#46
Dibromomethane
Concen: 1.511 ug/l
RT: 9.375 min Scan# 1324
Delta R.T. -0.023 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

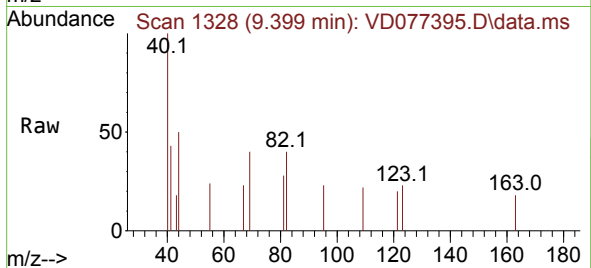
Tgt Ion: 93 Resp: 274
Ion Ratio Lower Upper
93 100
95 308.4 67.7 101.5#
174 0.0 85.4 128.2#



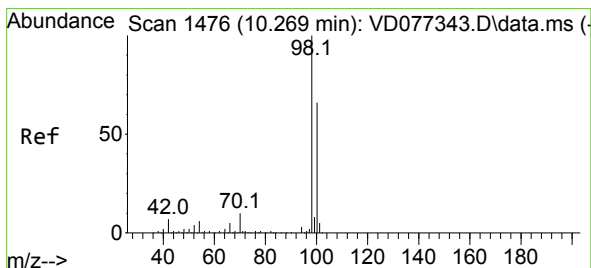
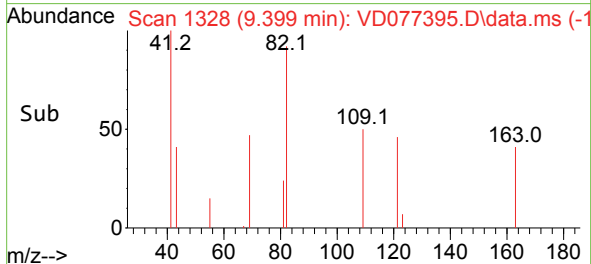
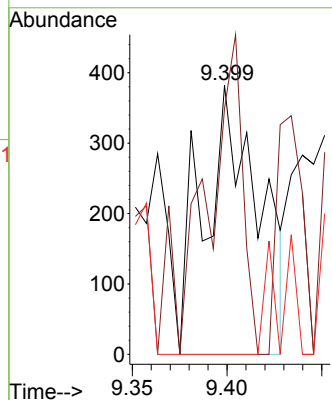


#48
Methyl methacrylate
Concen: 7.233 ug/l
RT: 9.399 min Scan# 11
Delta R.T. 0.018 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

Instrument :
MSVOA_D
ClientSampleId :

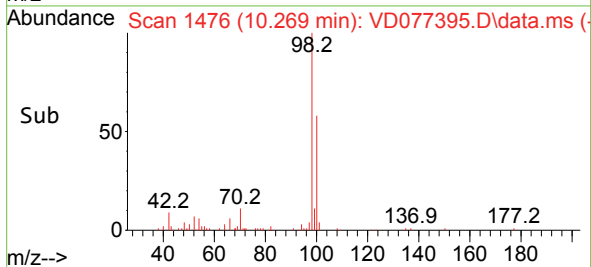
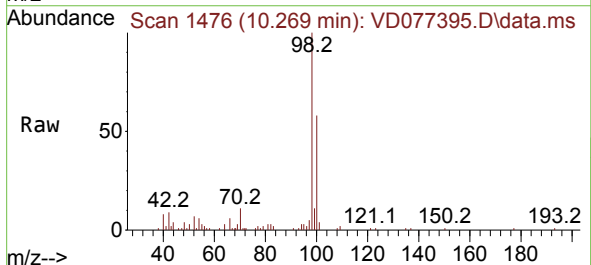
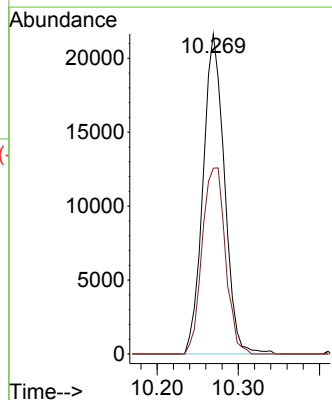


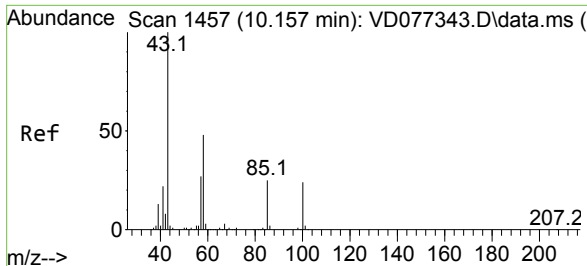
Tgt Ion: 41 Resp: 767
Ion Ratio Lower Upper
41 100
69 81.7 102.2 153.2#
39 0.0 41.4 62.2#



#50
Toluene-d8
Concen: 35.040 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

Tgt Ion: 98 Resp: 39590
Ion Ratio Lower Upper
98 100
100 63.3 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 2.434 ug/l

RT: 10.269 min Scan# 1457

Delta R.T. 0.112 min

Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

Instrument :

MSVOA_D

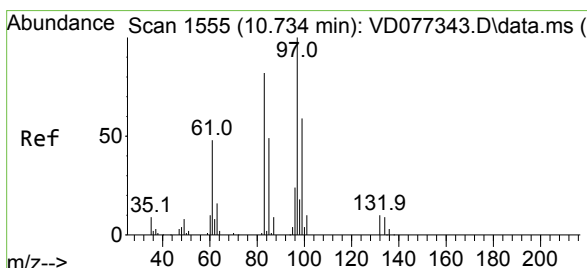
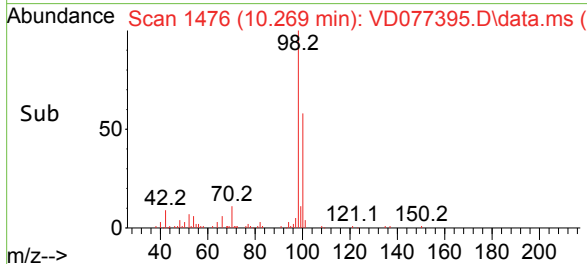
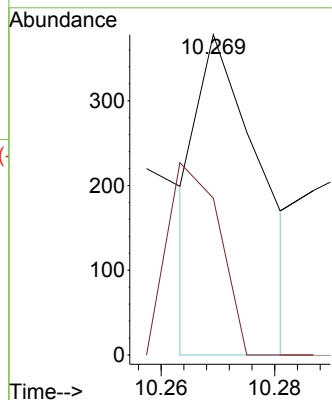
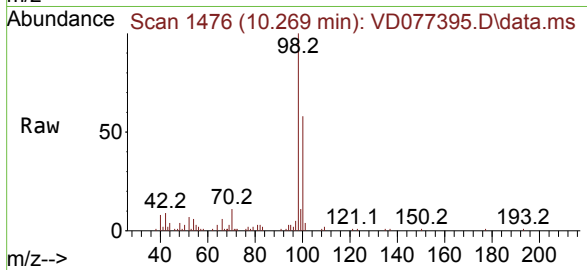
ClientSampleId :

Tgt Ion: 43 Resp: 286

Ion Ratio Lower Upper

43 100

58 50.7 38.9 58.3



#55

1,1,2-Trichloroethane

Concen: 2.465 ug/l

RT: 10.722 min Scan# 1553

Delta R.T. -0.012 min

Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

Tgt Ion: 97 Resp: 619

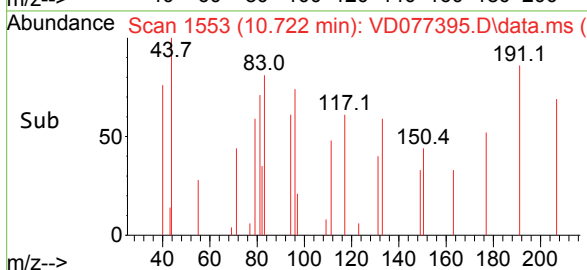
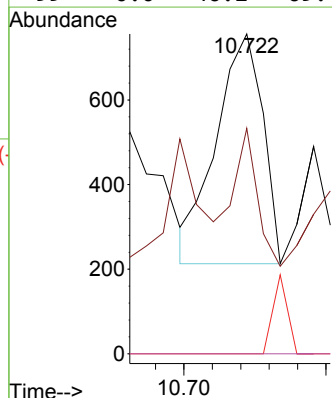
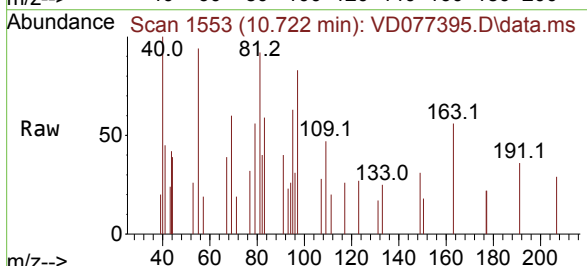
Ion Ratio Lower Upper

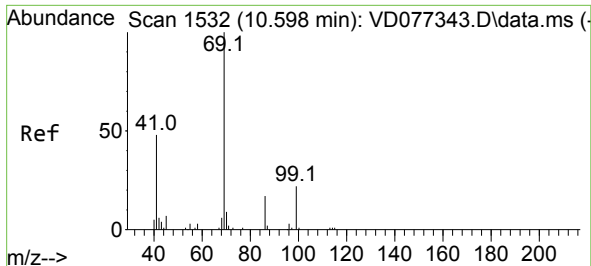
97 100

83 60.0 65.8 98.6#

85 0.0 45.7 68.5#

99 0.0 46.2 69.4#

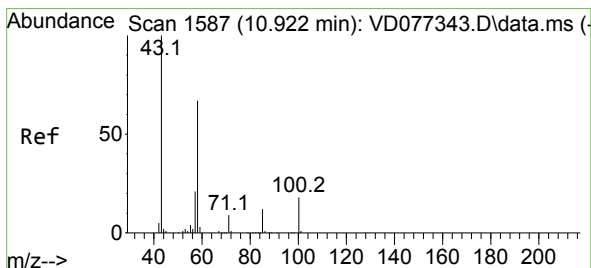
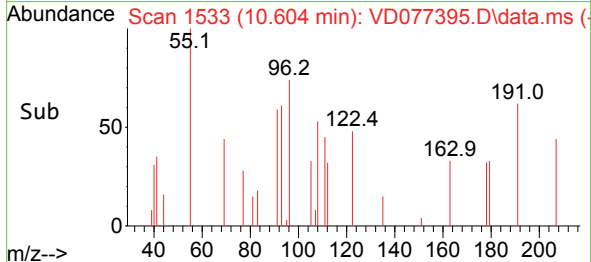
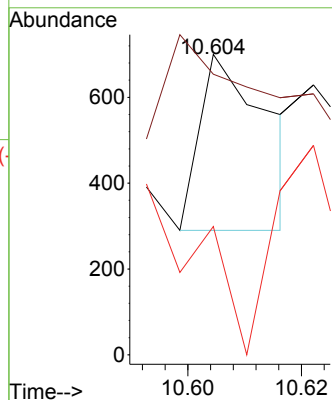
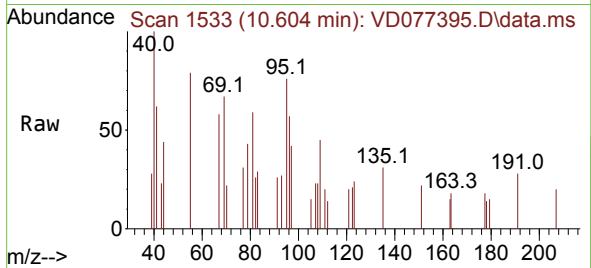




#56
Ethyl methacrylate
Concen: 1.429 ug/l
RT: 10.604 min Scan# 1533
Delta R.T. 0.006 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

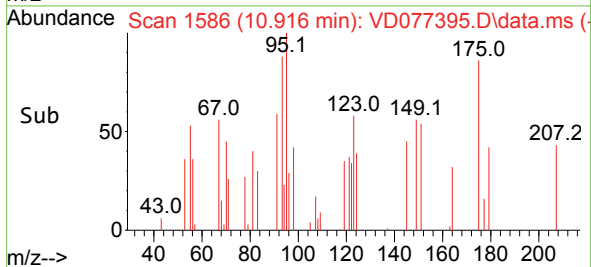
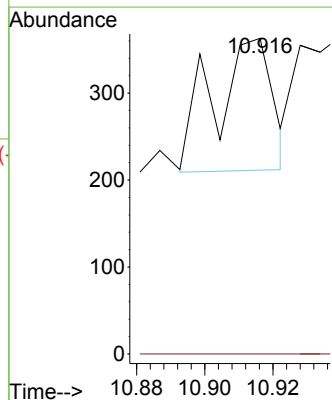
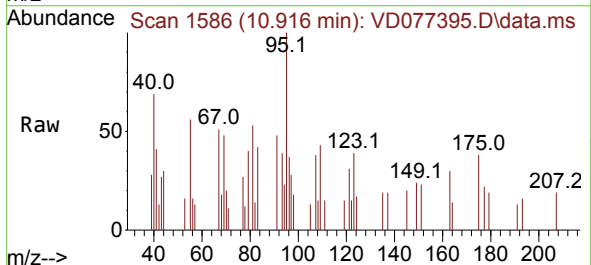
Instrument :
MSVOA_D
ClientSampleId :

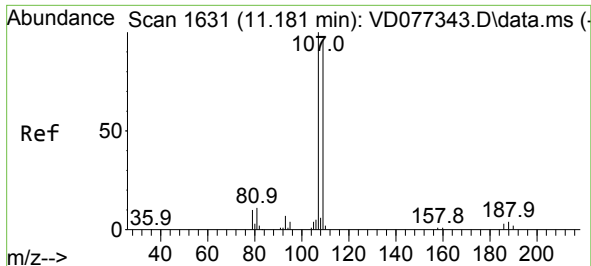
Tgt Ion: 69 Resp: 343
Ion Ratio Lower Upper
69 100
41 101.5 39.1 58.7#
39 186.9 20.0 30.0#



#59
2-Hexanone
Concen: 2.156 ug/l
RT: 10.916 min Scan# 1586
Delta R.T. -0.006 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

Tgt Ion: 43 Resp: 182
Ion Ratio Lower Upper
43 100
58 0.0 34.1 102.2#

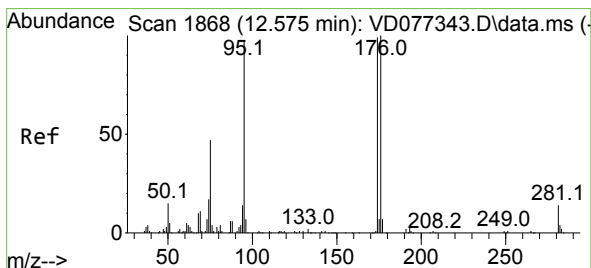
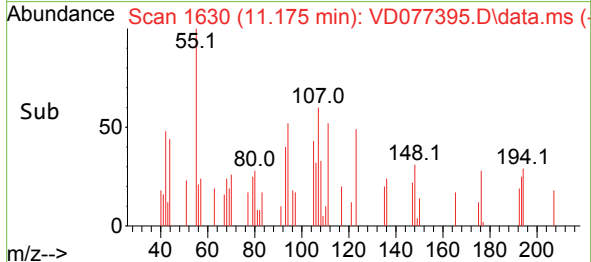
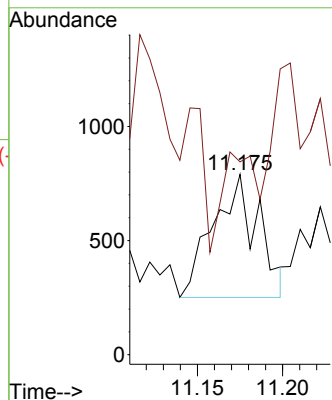
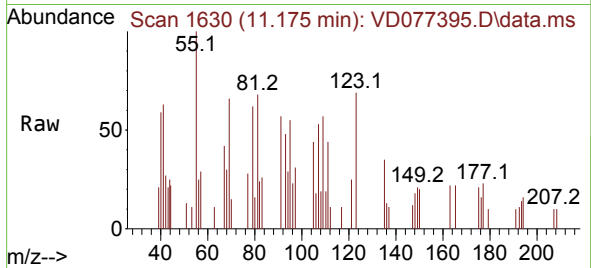




#61
1,2-Dibromoethane
Concen: 4.180 ug/l
RT: 11.175 min Scan# 1
Delta R.T. -0.006 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

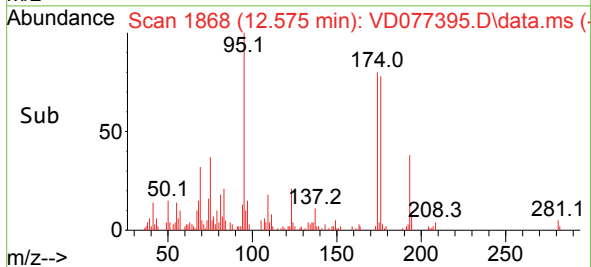
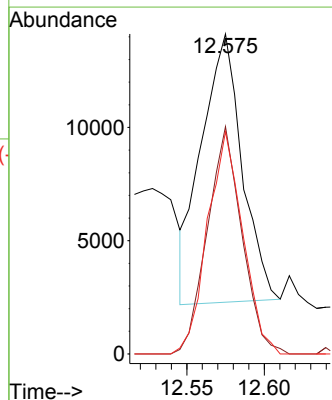
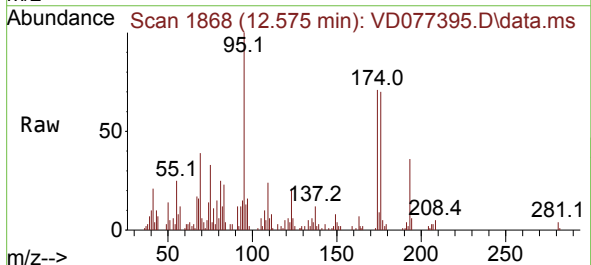
Instrument :
MSVOA_D
ClientSampleId :

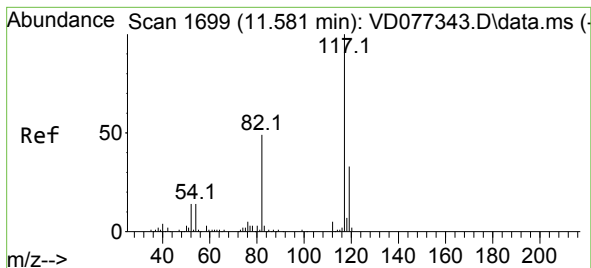
Tgt Ion:107 Resp: 989
Ion Ratio Lower Upper
107 100
109 60.8 75.6 113.4#



#62
4-Bromofluorobenzene
Concen: 66.235 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

Tgt Ion: 95 Resp: 21542
Ion Ratio Lower Upper
95 100
174 72.1 0.0 201.8
176 71.9 0.0 191.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 11

Delta R.T. -0.000 min

Lab File: VD077395.D

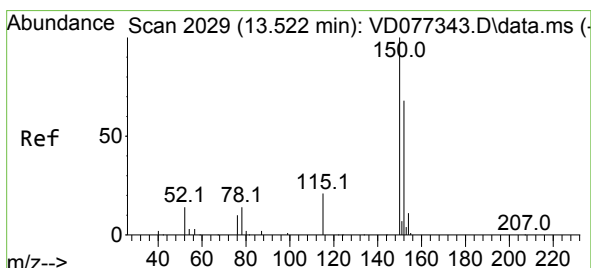
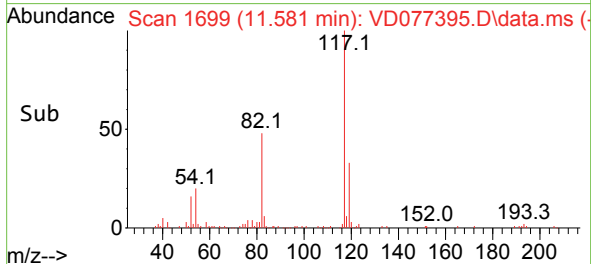
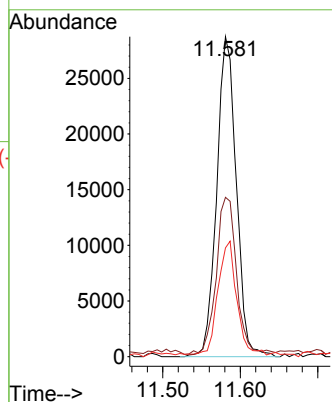
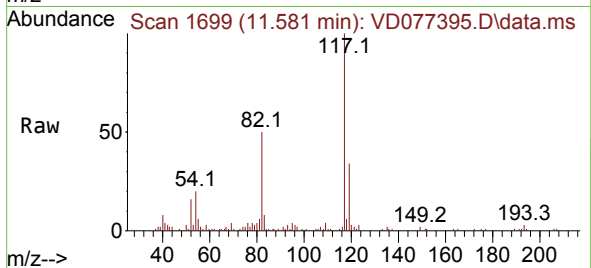
Acq: 24 Oct 2023 15:27

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:117	Resp:	50327
Ion Ratio	Lower	Upper
117	100	
82	48.4	38.3 57.5
119	33.3	25.0 37.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

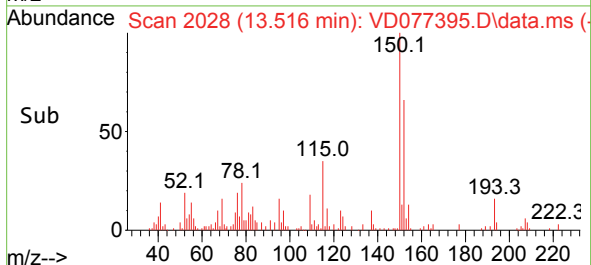
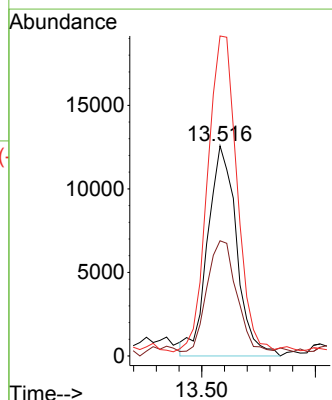
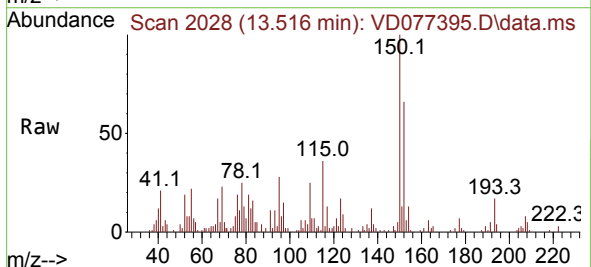
RT: 13.516 min Scan# 2028

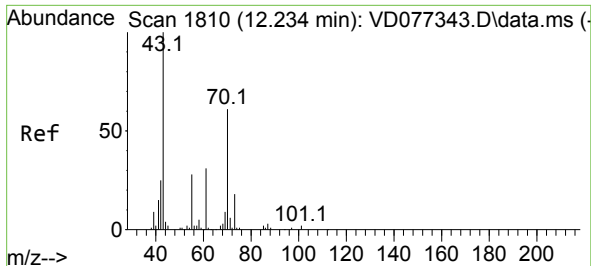
Delta R.T. -0.006 min

Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

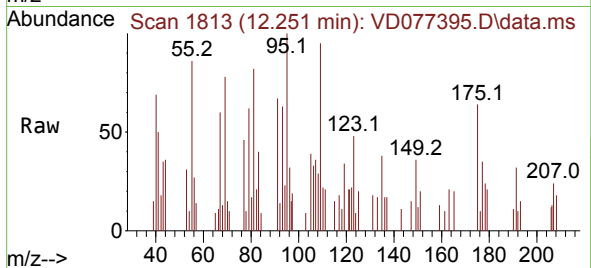
Tgt Ion:152	Resp:	22273
Ion Ratio	Lower	Upper
152	100	
115	53.1	27.1 81.3
150	152.4	0.0 353.6



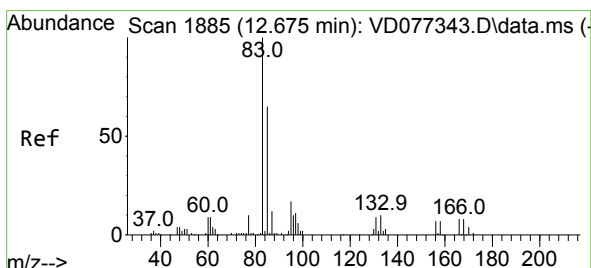
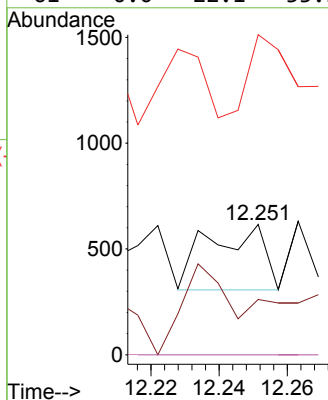
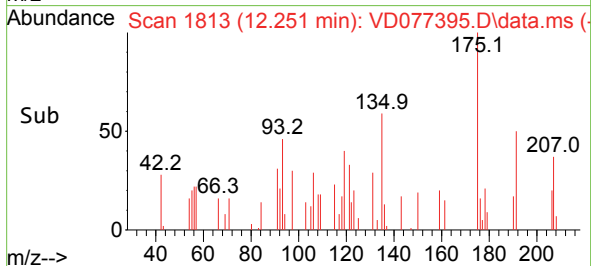


#74
N-amy1 acetate
Concen: 1.647 ug/l
RT: 12.251 min Scan# 11
Delta R.T. 0.018 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

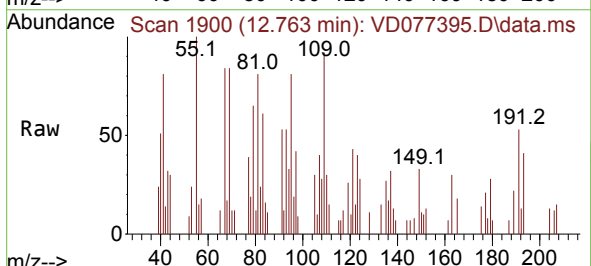
Instrument :
MSVOA_D
ClientSampleId :



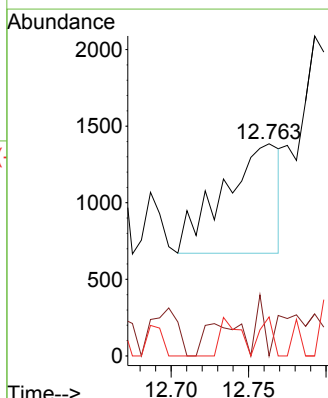
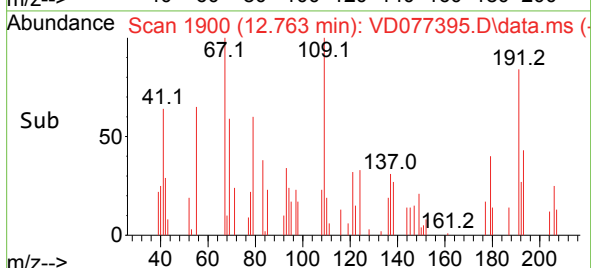
Tgt Ion: 43	Resp: 349
Ion Ratio	Lower Upper
43 100	
70 0.0	45.0 67.4#
55 90.8	23.8 35.6#
61 0.0	22.1 33.1#

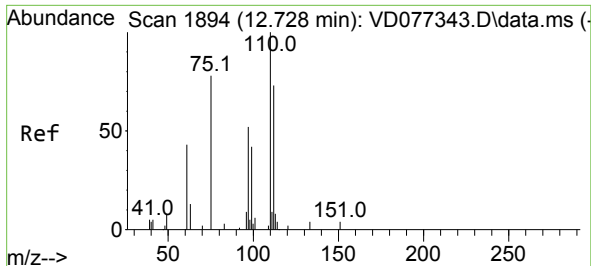


#75
1,1,2,2-Tetrachloroethane
Concen: 6.697 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. 0.088 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27



Tgt Ion: 83	Resp: 1793
Ion Ratio	Lower Upper
83 100	
131 7.9	5.1 15.3
85 0.0	32.6 97.8#

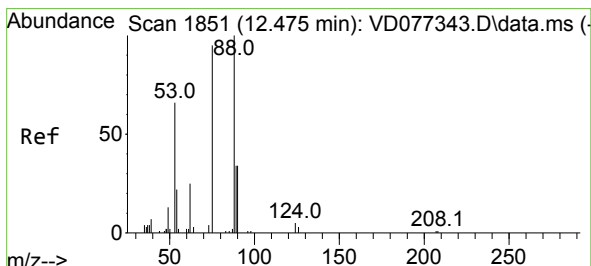
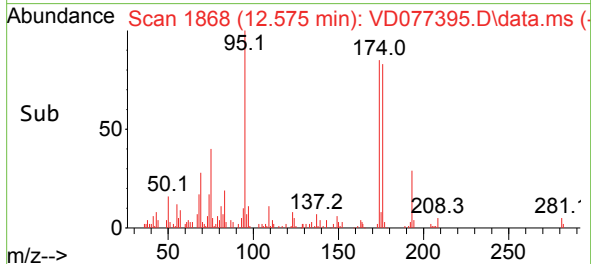
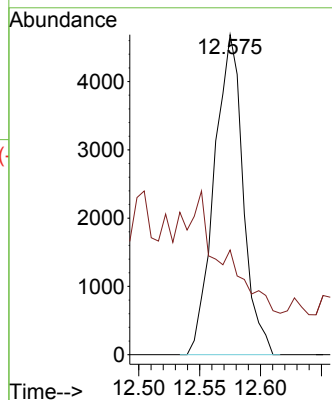
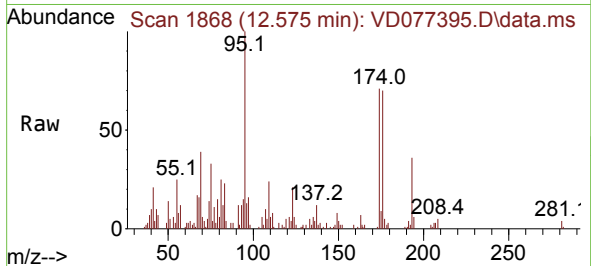




#76
1,2,3-Trichloropropane
Concen: 26.925 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.153 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

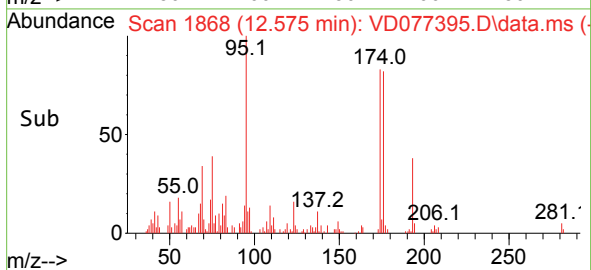
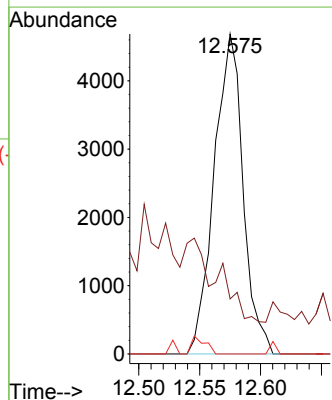
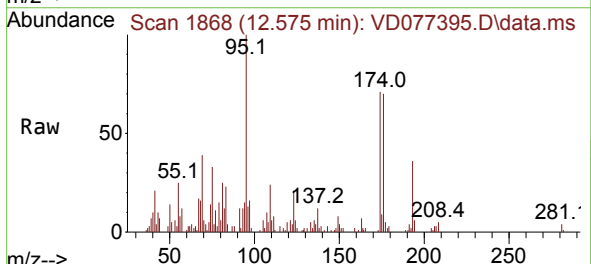
Instrument :
MSVOA_D
ClientSampleId :

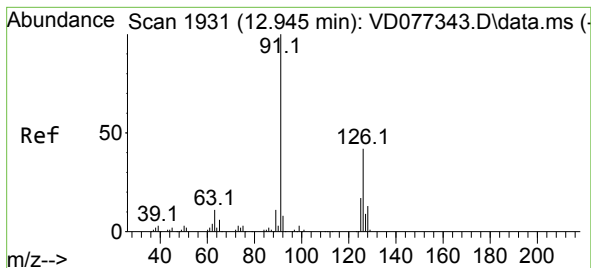
Tgt Ion: 75 Resp: 7737
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 93.079 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.100 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

Tgt Ion: 75 Resp: 7737
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#





#82

4-Chlorotoluene

Concen: 1.116 ug/l

RT: 12.963 min Scan# 1934

Delta R.T. 0.018 min

Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

Instrument :

MSVOA_D

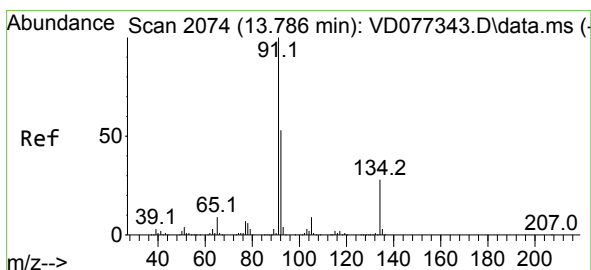
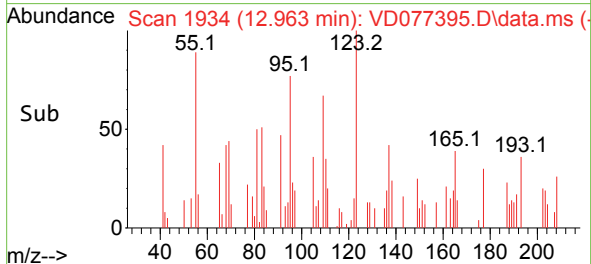
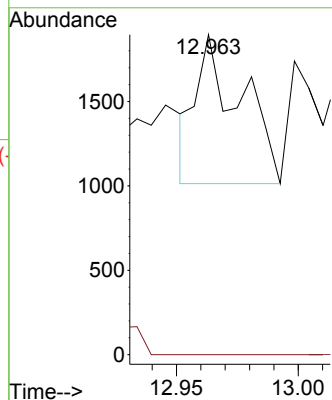
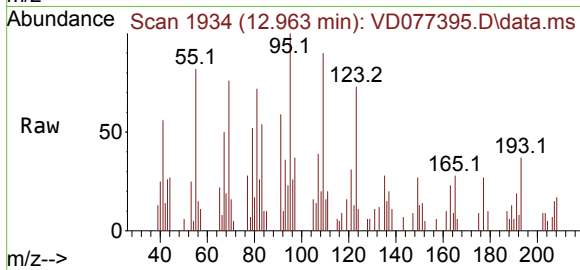
ClientSampleId :

Tgt Ion: 91 Resp: 1123

Ion Ratio Lower Upper

91 100

126 0.0 19.4 58.4#



#89

n-Butylbenzene

Concen: 1.109 ug/l

RT: 13.851 min Scan# 2085

Delta R.T. 0.065 min

Lab File: VD077395.D

Acq: 24 Oct 2023 15:27

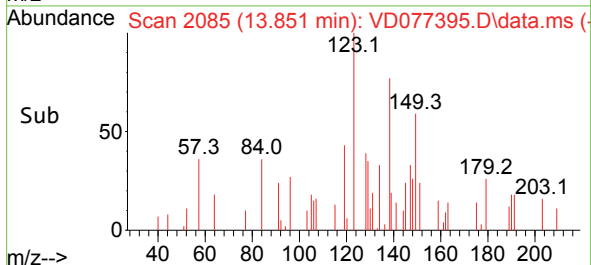
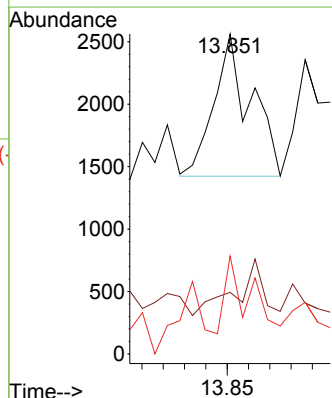
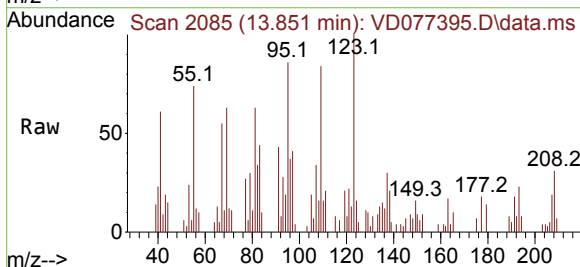
Tgt Ion: 91 Resp: 1361

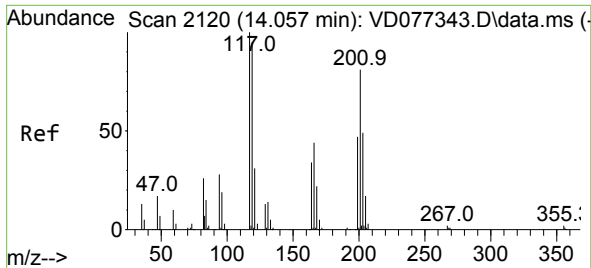
Ion Ratio Lower Upper

91 100

92 29.0 26.5 79.5

134 35.6 13.8 41.3

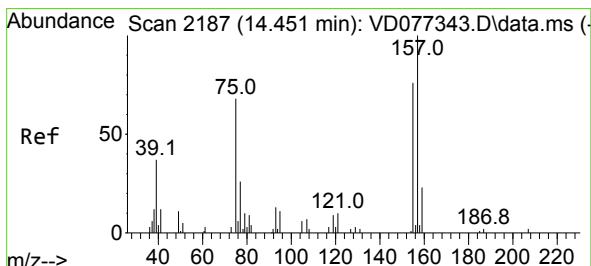
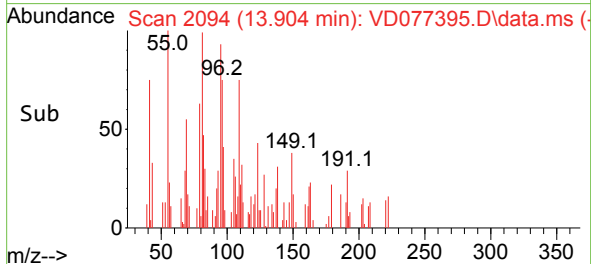
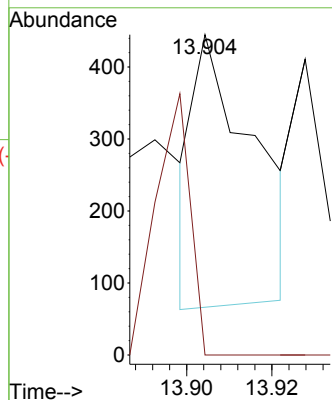
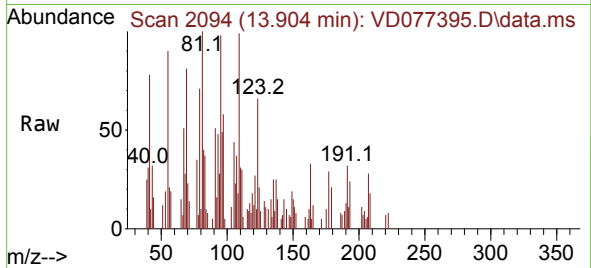




#90
Hexachloroethane
Concen: 1.285 ug/l
RT: 13.904 min Scan# 2094
Delta R.T. -0.153 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

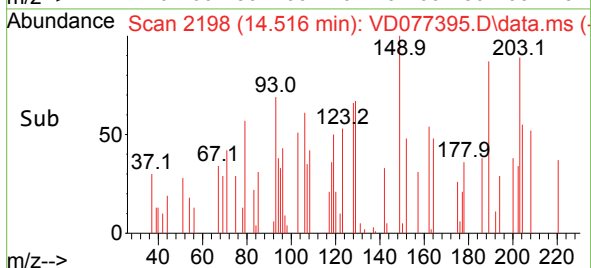
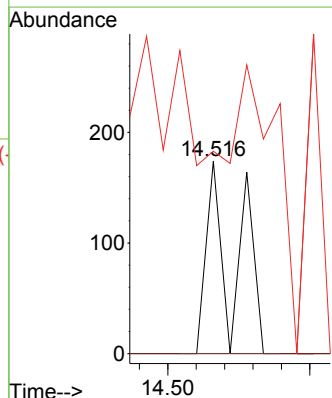
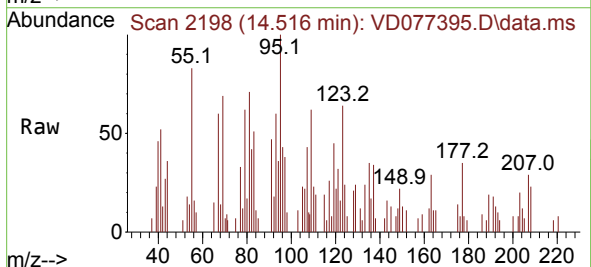
Instrument :
MSVOA_D
ClientSampleId :

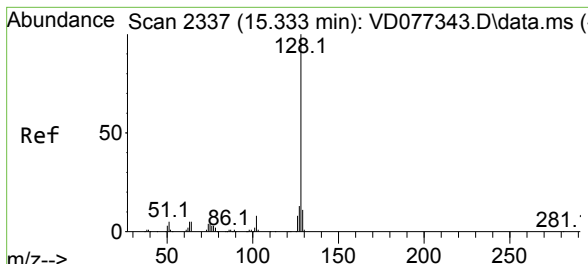
Tgt Ion:117 Resp: 366
Ion Ratio Lower Upper
117 100
201 55.5 38.5 115.5



#92
1,2-Dibromo-3-Chloropropane
Concen: 3.632 ug/l
RT: 14.516 min Scan# 2198
Delta R.T. 0.065 min
Lab File: VD077395.D
Acq: 24 Oct 2023 15:27

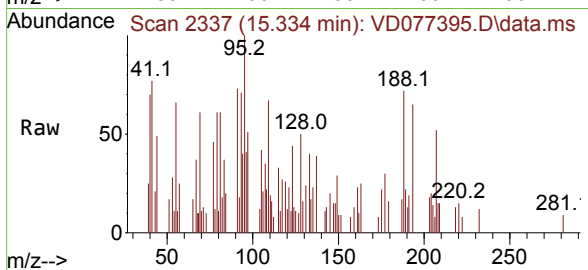
Tgt Ion: 75 Resp: 119
Ion Ratio Lower Upper
75 100
155 0.0 47.9 143.8#
157 201.7 59.9 179.7#





#95
 Naphthalene
 Concen: 1.731 ug/l
 RT: 15.334 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VD077395.D
 Acq: 24 Oct 2023 15:27

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	128	Resp:	1252
Ion	Ratio	Lower	Upper
128	100		
127	19.7	10.5	15.7#
129	31.8	8.7	13.1#

